DEPARTMENT OF THE AIR FORCE
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HOLLOMAN AIR FORCE BASE NEW MEXICO

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8 April 2016

ADAM M. KUSMAK, GS-13, USAF
Chief, Installation Management Flight (49 CES/CEI)
49th Civil Engineer Squadron (49 CES)
Holloman Air Force Base, NM

New Mexico Environment Department
Attn: Mr. John Kieling, Chief
Hazardous Waste Bureau
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Re: **SR859a Former Skeet Range 2 and TS862a Jeep Target Area Skeet Range Remedial Investigation Report**
EPA ID# NM6572124422, HWB-HAFB-12-001
Holloman Air Force Base, Alamogordo, NM
Contract No. FA8903-13-C-0008

Dear Mr. Kieling,

Holloman AFB is pleased to submit the Remedial Investigation Report for the SR859a Former Skeet Range 2 and TS862a Jeep Target Area Skeet Range Munitions Response Sites

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision according to a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

If you have any questions regarding this submittal, please contact me at (575) 572-6675 or by email at adam.kusmak@us.af.mil.

Sincerely,

KUSMAK.ADAM.M.1263331806

Digitally signed by KUSMAK.ADAM.M.1263331806
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ADAM M. KUSMAK, GS-13, USAF

Attachment(s): *SR859a Former Skeet Range 2 and TS862a Jeep Target Area Skeet Range Remedial Investigation Report*. Hard copy and CD.

cc: Mr. Dave Strasser, NMED HWB (w/Atch)
Mr. Cornelius Amindyas, NMED HWB (w/o Atch)
Mr. Chuck Hendrickson, USEPA (w/CD)
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SR859a FORMER SKEET RANGE 2 and
TS862a JEEP TARGET AREA SKEET RANGE

REMEDIAL INVESTIGATION REPORT

HOLLOMAN AIR FORCE BASE
NEW MEXICO

Performance Based Remediation
Contract Number: FA8903-13-C-0008

Prepared for

AIR FORCE CIVIL ENGINEER CENTER
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April 2016

Prepared by:

FPM Remediations, Inc.
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SR859a Former Skeet Range 2 and TS862a Jeep Target Area Skeet Range Sites

Remedial Investigation Report

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Sites:

SR859a Former Skeet Range 2 and
TS862a Jeep Target Area Skeet Range
Holloman Air Force Base
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LIST OF ABBREVIATIONS AND ACRONYMS

AAF	Army Air Field
AFCEC	Air Force Civil Engineer Center
AMC	Air Mobility Command
ARAR	Applicable or Relevant and Appropriate Requirement
bgs	belowground surface
CERCLA	Comprehensive Environmental Response, Compensation, and Liability Act
CHE	Chemical Warfare Materiel Hazard Evaluation
COPC	Chemical of Potential Concern
CSE	Comprehensive Site Evaluation
CSM	Conceptual Site Model
CTT	Closed, Transferred, Transferring
DDESB	DoD Explosives Safety Board
DERP	Defense Environmental Restoration Program
DoD	Department of Defense
DQO	Data Quality Objective
EHE	Explosive Hazard Evaluation
EPC	Exposure Point Concentration
ºF	Degrees Fahrenheit
FPM	FPM Remediations, Inc.
Ft.	feet
HAFB	Holloman Air Force Base
HHE	Health Hazard Evaluation
HHRA	Human Health Risk Assessment
HI	Hazard Index
HQ	Hazard Quotient
HSTT	High Speed Test Track
in.	inches
LOD	Limit of Detection
MC	munitions constituents
MEC	Munitions and Explosives of Concern
µg/kg	micrograms per kilogram

LIST OF ABBREVIATIONS AND ACRONYMS

µg/L	micrograms per liter
mg/kg	milligrams per kilogram
MMRP	Military Munitions Response Program
MRA	Munitions Response Area
MRS	Munitions Response Site
MRSPP	Munitions Response Site Prioritization Protocol
msl	mean sea level
NCP	National Oil and Hazardous Substances Pollution Contingency Plan
NFA	No Further Action
NMED	New Mexico Environment Department
PAH	Polycyclic aromatic hydrocarbon
PBR	Performance Based Remediation
%	Percent
QC	Quality Control
RI	Remedial Investigation
RME	Reasonable Maximum Exposure
RSL	Regional Screening Level
SARA	Superfund Amendments and Reauthorization Act
SC	Site Closeout
SIM	Selected Ion Monitoring
UCL	Upper Confidence Limit
UFP-QAPP	Uniform Federal Policy-Quality Assurance Project Plan
USACE	United States Corps of Engineers
USAF	United States Air Force
USEPA	United States Environmental Protection Agency
WSMR	White Sands Missile Range
XRF	X-ray fluorescence

1.0 INTRODUCTION

This report presents the activities, results, and conclusions of the Remedial Investigation (RI) performed for the SR859a Former Skeet Range 2 and TS862a Jeep Target Area Skeet Range sites at Holloman Air Force Base (HAFB) located in Otero County, New Mexico. The RI was conducted in accordance with the approved *Final SR859a Former Skeet Range 2 and TS862a Jeep Target Area Skeet Range Remedial Investigation Work Plan, Uniform Federal Policy Quality Assurance Project Plan (UFP-QAPP)* (FPM Remediations, Inc. [FPM], 2015), and the *MMRP Sites Health and Safety Plan for Holloman Air Force Base* (FPM, 2014).

1.1 PROJECT AUTHORIZATION

This RI was conducted to determination the nature and extent of residual contamination at the two subject skeet range sites (SR859a and TS862a). RI activities were performed through the Military Munitions Response Program (MMRP) under the authority of the Defense Environmental Restoration Program (DERP) and in accordance with the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) of 1980, as amended by the Superfund Amendments and Reauthorization Act (SARA) of 1986. The Department of Defense (DoD) has established the MMRP under the DERP to address DoD sites with unexploded ordnance, discarded military munitions, and munitions constituents (MC) located on current and former military installations. The United States Environmental Protection Agency (USEPA) created a guidance document; Unexploded Ordnance Management Principles in 2000; to address the cleanup of "other than operational ranges (which were referred to as closed, transferred, and transferring [CTT] ranges)." This policy states a process consistent with CERCLA and the management principles carried through the CERCLA process will be the preferred response mechanism used to address CTT ranges. The legal authorities that support site-specific response actions at CTT ranges include, but are not limited to, CERCLA, as delegated by Executive Order 12580 and the National Oil and Hazardous Substances Contingency Plan (NCP); the DERP; and the DoD Explosives Safety Board (DDESB). Due to both sites being addressed under the United States Air Force (USAF) MMRP created by Congress in 2001 under the DERP as established by Section 211 of the SARA of 1986 they are subject to regulation under the MMRP CERCLA cleanup process.

FPM is authorized by the Air Force Civil Engineer Center (AFCEC) under Contract FA8903-13-C-0008 to conduct Performance Based Remediation (PBR) in compliance with USEPA at various sites throughout HAFB.

1.2 PROJECT PURPOSE AND SCOPE

The purposes of the RI field activities were to evaluate the nature and extent of residual contamination previously identified in soils related to past range related activities, identify potential risks to human health and the environment, and to determine whether remedial actions are necessary. The Final RI UFP-QAPP (FPM, 2015) identified field activities and data requirements necessary to meet these objectives. Preliminary Remediation Goals identified in the Final RI UFP-QAPP were based upon Applicable or Relevant and Appropriate Requirements (ARARs) for human health and the environment by way of selecting suitable screening levels. The collected data presented hereafter will be analyzed and used to determine future actions at SR859a and TS862a to achieve Site Closeout (SC).

The RI data collection activities were aimed at collecting sufficient information with the addition to previously collected data to adequately characterize the sites for the purpose of developing and evaluating remedial alternatives, should they be deemed necessary. In addition, the information collected during the field activities will be used to update the Conceptual Site Model (CSM) and evaluate potential risks.

1.3 RI REPORT ORGANIZATION

This RI Report summarizes RI field activities performed in March 2015, to define the extent of residual range-related contamination (metals and polycyclic aromatic hydrocarbons [PAHs]) at the subject sites. RI soil analytical data are evaluated along with findings of previous investigations in the results section of this report. This RI Report has been organized as follows:

Sections

Section 1 – Introduction

Section 2 – Facility Settings and Characterization

Section 3 – Remedial Investigation Field Activities

Section 4 – Field Investigation Results and Revised Conceptual Site Model

Section 5 – Contaminant Fate and Transport

Section 6 – Baseline Risk Assessment

Section 7 – Munitions Response Site Prioritization Protocol

Section 8 – Summary of Results

Section 9 – Conclusions and Recommendations

Section 10 – References

2.0 FACILITY SETTING AND CHARACTERIZATION

This section describes HAFB and the SR859a – Former Skeet Range 2 and TS862a – Jeep Target Area Skeet Range sites, and summarizes the environmental and ecological information relating to HAFB.

2.1 INSTALLATION DESCRIPTION

HAFB is located in south-central New Mexico, seven miles west of the city of Alamogordo in Otero County. It is adjacent to the White Sands Missile Range (WSMR). A portion of the Base to the south is bordered by Route 70, which also runs roughly north-south and parallel to the eastern boundary of the Base. HAFB occupies approximately 50,763 acres of land. It is contiguous to the much larger (2.2 million acre) WSMR, and located to the southeast of WSMR. The southern portion of HAFB contains the flight line, composed of a series of runways running north-south, east-west, and northeast southwest. The Main Base is located at the southeast corner of the installation, where Route 70 borders the site. The Main Base contains housing and administrative buildings. The West Area and the North Area refer to the improved areas around the original airfield (southeastern triangle formed by the runways). High Speed Test Track (HSTT) runs north-south and is located northwest of the airfield. The track is the world's longest of its kind at 9.5 miles and has been used for an array of missile testing for decades and is still in use today. Access to HAFB requires admittance through the security gate and there is a fence around the installation. (United States Army Corps of Engineers [USACE], 2013).

HAFB was established nine months after the United States first entered World War II and was an integral facility in the beginning stages of the United States space program during the Cold War. On 6 February 1942, construction began on an extensive bombing and gunnery range later known as the Alamogordo Bombing and Gunnery Range. On 10 August 1942, the Alamogordo Army Air Field (AAF) was officially established. The facility was initially intended to be used by Great Britain as part of their World War II British Training Program for bomber crews, so the Base was designed after Royal Air Force bases (USACE, 2013).

The first atomic bomb was detonated on 16 July 1945 at the Trinity Site in the northwest corner of the Alamogordo Bombing and Gunnery Range (now the WSMR). In 1946, as more lands became available within the Tularosa Basin, the Alamogordo AAF was reassigned to be a missile development facility. With the creation of the USAF as a separate service, the facility came under the direction of the Air Materiel Command, which decided that the facility would be used to conduct guided missile programs. On 13 January 1948, the Base was renamed Holloman Air Force Base, after Col. George V. Holloman, an early pioneer in guided missile development (USACE, 2013).

To support the Holloman mission of developing guided missiles, the Army Ordnance Corps built White Sands Proving Grounds. The combined area of the White Sands Proving Grounds and Alamogordo Bombing Range was 100 miles long and 40 miles wide, and on 1 September 1952, the two ranges were combined to form the Integrated White Sands Range. From 1952 to 1970, missile development and testing at White Sands included the Snark, Matador, Mace, Falcon, Aerobee, JB-2 Loon, and Firebee missiles. High speed sled tests, high altitude balloon projects, and Aeromedical Field Laboratory experiments were also conducted. Testing activities included the Central Inertial Guidance Test Facility and the Radar Target Scatter Test Facility (USACE, 2013).

2.2 SITE DESCRIPTION

The Former Skeet Range 2 Munitions Response Area (MRA) (TS859) is located approximately 1,300 feet (ft.) north of Forty Niner Avenue and 650 ft. north of the Holloman runway control tower (**Figure 1**). The Former Skeet Range 2 MRA 859 measures approximately 2,190 ft. by 900 ft. with a perimeter of 5,651 ft. and an area of 37.5 acres. The coordinates of the area are 32.85483 degrees latitude, and -106.11523 degrees longitude. Topography is relatively flat with soils consisting of the Yesum-Nasa complex. There are no wetlands associated with this MRA. The Comprehensive Site Evaluation (CSE) Phase II report (USACE, 2013) recommended splitting the MRA into two Munitions Response Sites (MRSs): SR859 (34.3 acres) was recommended for no further action (NFA) due to lack of Munitions and Explosives of Concern (MEC) and MC exceeding USEPA Residential Regional Screening Levels and SR859a (8.1 acres) was recommended for future munitions response actions. The RI field activities addressed only the 8.1 acres that was recommended for future response actions (designated as SR859a by the CSE Phase II Report) (**Figure 2**).

The Jeep Target Area Skeet Range MRA 862 is located just northeast of the active Jeep Target Area. This MRA is estimated to have measured 2,190 ft. by 900 ft. with a perimeter of 5,650 ft. and an area of approximately 37.5 acres (**Figure 1**). The coordinates of the area are 32.87951 degrees latitude, and -106.13140 degrees longitude. The location of the Jeep Target Area Skeet Range (TS862) exhibits relatively flat topography with soils consisting of the Yesum-Nasa complex. Similarly, the CSE Phase II report recommended splitting the initial MRA into two MRSs: TS862 (34.6 acres) was recommended for NFA due to lack of MEC and MC exceeding USEPA residential RSLs and TS862a (5.7 acres) was recommended for future munitions response actions. The RI activities address only the 5.7 acres that was recommended for future response actions (TS862a) (**Figure 3**).

2.3 ENVIRONMENTAL SETTING

2.3.1 Physiography

HAFB lies within the Tularosa basin of south-central New Mexico. This area is part of the Mexican Highland section of the Basin and Range physiographic province and is characterized by fault block mountains interspersed with low desert plains and basins. The base lies on relatively flat alluvial plains below the Sacramento Mountains. These plains are bordered to the west by the White Sands dune field. Elevations range from 4,000 to 4,250 ft. above mean sea level (msl) (SKY, 2011).

2.3.2 Climate

HAFB is located in a semi-arid region within the northern portion of the Chihuahuan Desert. Its climate resembles other semi-arid regions with warm to hot summer days, cool nights, and mild winters. Monthly mean high temperatures range from 55 degrees Fahrenheit (°F) in January to 93.6°F in August. Monthly mean low temperatures range from 29°F in January to 66°F in July. Evapotranspiration is usually high due to dry air, large daily solar radiation totals, seasonally high winds, and warm temperatures. Seasonal fluctuation in precipitation rates is a result of prevailing wind directions, which can bring in frontal storms from the north or the Pacific or Caribbean cyclonic systems. The area averages 13.20 inches (in.) of annual rainfall. Nearly half of this amount falls within the months of July through September, known as the summer monsoons. Monsoon thunderstorms are generally short in duration and high in intensity.

Occurrences are highly variable from year to year and one or two short-term events may contain a large percentage of the net annual precipitation. Average annual snowfall is approximately 4.5 inches.

2.3.3 Soil and Vegetation

The soils on HAFB are basin fill deposits formed primarily from alluvial and eolian processes. All soils have a high gypsum and salt content, primarily due to the eastern migration of gypsum sands from WSMR and White Sands National Monument. Alluvial floodplains on the eastern and southern portions of the base are basin fill deposits from the western slope of the Sacramento Mountains. Subsoils, or undersoils, are formed from sediments of Lake Otero, a Pleistocene lake formed during a climatic cycle of increased moisture. During periods of low precipitation, this large lake, reaching a depth of several hundred feet, would contract and leave salt and gypsum evaporites. HAFB has three primary soil types: several associations and complexes of Holloman, Gypsum Land, and Yesum soils, located in the flats; Dune Land, found in the White Sands dunes; and Mead silty clay loam soil, found in the alluvial floodplains (including most jurisdictional wetlands). None of the soil types are very productive, due to high gypsum and salt content, and all are highly subject to both wind and water erosion when the vegetation is sparse or the soil is exposed. The vegetation of HAFB is consistent with that of the Tularosa Basin and includes mesquite, creosote bush, and grasses. Succulents such as cactus, agave, and yucca also occur. Sensitive species that currently receive no federal protection include lichen (A. *clauzadeana*), proposed for rare and endangered listing and the grama grass cactus, included due to its former candidate status (SKY, 2011).

2.3.4 Geology and Hydrogeology

HAFB is located in the Tularosa Basin, a downfaulted, closed, intermountain basin located in the southern portion of the Rio Grande Rift. The Tularosa Basin is a bolson, which is a basin with no surface drainage outlet, in which sediments are carried by surface water into the closed basin and deposited (Bhate, 2007). The Tularosa Basin is thought to have formed approximately 35 million years ago as a result of faulting, with the most recent formational activity having occurred as recently as 10,000 years ago. Basin fill of the Tularosa Basin is derived from the erosion of the uplifted material and fluvial deposits from the Rio Grande River. The Basin fill consists of unconsolidated coarse- to fine-grained alluvial fan deposits along the rims of the basin that are gradational toward the basin into finer-grained alluvial, fluvial, and lacustrine deposits. Evaporite materials, such as selenite, are present.

Prominent local physiographic features include the Sacramento Mountains to the east, San Andres Mountains, and White Sands National Monument to the west (49th FW, 2009). The Tularosa Basin was formed as a structural trough during the Middle to Late Cenozoic era. Alluvial fill deposition includes sand, gravel, and clay in alluvial fans along the basin margins and extensive lake, alluvial, and evaporate deposits within the interior basin. Streams sustained by groundwater discharge within the basin include Salt Creek and Malpais Spring. It is estimated that the groundwater resources of the Tularosa Basin contain over 100 million-acre feet of brackish groundwater. A wide range of water chemistries including sodium chloride, carbonate, and sulfate-based brine waters exist in the basin and water with salinity from 1,000 parts per million total dissolved solids, approximate to fresh water, to over 20,000 parts per million total dissolved solids, approximate to sea water, can be found within the basin. The predominance of groundwater occurs as an unconfined aquifer in the unconsolidated deposits of

the central basin. The primary source of groundwater recharge is percolation of rainwater and a minor contribution from stream run-off along the western edge of the Sacramento Mountains.

Beneath HAFB, groundwater ranges from 5 ft. to 50 ft. below ground surface (bgs). Groundwater flow is generally toward the southwest with localized influences from the variations in base topography with shallower groundwater found on the southern end of the base (SKY, 2011).

2.3.5 Surface Water

The only permanent water in the Tularosa Basin is found in small streams between Alamogordo and Three Rivers, New Mexico. There are no perennial streams within HAFB or in the nearby surrounding landscape; however, a set of perennial pools exist within the base. They are the final one-third of the Lost River, a set of pools near the confluence of Ritas and Malone Draws, and the Salt Lakes just south of the Lost River and Camera Pad Road Pond. The Rio Grande, located west of the San Andres Mountains, and the Pecos River, east of the Sacramento Mountains, are the closest perennial rivers in the region. There are at least nine prominent east-west drainages that receive intermittent flows during seasonal thunderstorms. The largest of these drainages is the Lost River drainage system, including Malone Draw, Carter Draw, and Ritas Draw. Prior to extensive management of the surface topography and construction of Highway 70/82, Dillard Draw emptied into the Main Base, creating a network of flats and playas including what are now Lake Holloman, Stinky Playa, and Pond G. Construction activities have disrupted the natural flow of this wetland ecosystem (SKY, 2011).

2.4 PREVIOUS INVESTIGATIONS

In support of the USAF MMRP at HAFB, two previous studies/investigations were conducted at the Skeet Range sites to identify potential range related contamination from previous use at each site. A brief discussion of these studies is provided in the following sections.

2.4.1 Comprehensive Site Evaluation Phase I - 2010

A Modified CSE Phase I (Shaw Environmental, Inc, 2010) was completed in 2010 to characterize the site; evaluate actual or potential releases of hazardous substances, pollutants, or contaminants to migration/exposure pathways (groundwater, soil, and air) from MRAs and to evaluate associated areas a of concern. The Modified CSE Phase I activities compiled and evaluated information related to past military munitions activities, physical site conditions, and future land uses and activities. Information sources included national, regional, and local archives, along with interviews, and observations made during field reconnaissance. No laboratory samples were collected as part of the Modified CSE Phase I activities. Results indicated that the SR859 Former Skeet Range 2 (identified as TS859 during the CSE Phase I) and TS862 Jeep Target Area Skeet Range were utilized as small arms training areas and potential munitions could include expended small arms. Further investigations were warranted to asses if lead and/or PAHs had been released to the environment. A CSE Phase II was recommended.

2.4.2 Comprehensive Site Evaluation Phase II - 2013

A CSE Phase II was completed in 2013 and involved the compilation and evaluation of information relating to the possible contamination of environmental media from MC and/or Chemicals of Potential Concern (COPCs) related to historic munitions related activities at identified MRAs at HAFB. Activities included visual reconnaissance surveys and the collection

of soil samples for on-site X-ray fluorescence (XRF) analysis for lead and also fixed-base laboratory samples for PAHs. An XRF correlation evaluation including fixed base laboratory samples was also completed during the CSE Phase II to determine quality and usability of the XRF screening data.

SR859 Former Skeet Range 2– During the CSE Phase II field activities small arms debris associated with range activities including 12-gauge shotgun shells and components, 5.56mm, 7.62mm, and .50-caliber casings and clay target debris were observed. A total of 140 surface soil samples and 3 subsurface soil samples were collected and analyzed for lead using an XRF analyzer. Detected results ranged from below the Limit of Detection (LOD) for the instrument which was determined to be 12 milligrams per kilogram (mg/kg) to 463 mg/kg in surface soil and from below the LOD to 71 mg/kg in subsurface soil. Of the 140 surface soil samples 30 were below the LOD of 12 mg/kg. One surface soil sample exceeded the USEPA residential RSL of 400 mg/kg. Twenty surface and 4 subsurface soil samples were collected and analyzed for PAHs. At least one analyte exceeded the associated human health screening level in 14 of the 24 samples collected. The CSE Phase II report recommended splitting the MRA into two MRSs: SR859 (34.3 acres) was recommended for NFA due to lack of MEC and MC exceeding USEPA RSLs and SR859a (8.1 acres) was recommended for further response actions due to range related debris on the surface, and incidental constituents in surface soil that pose potential risk to human health and the environment (USACE, 2013). **Figures 4** through **6** summarize the CSE Phase II findings.

TS862a Jeep Target Area Skeet Range – Clay Target debris along with 12-gauge shotgun shells and components, .45-caliber, and .50-caliber spent casings were observed during the CSE Phase II visual reconnaissance survey. A total of 137 surface soil samples were collected and screened for lead using the XRF analyzer. Lead analysis results ranged from below the LOD (12mg/kg) to 101 mg/kg. No samples exceeded the USEPA residential screening level of 400 mg/kg. Furthermore, 121 samples screened with the XRF indicated that lead concentrations were below the LOD. Thirty-one (31) surface soil samples and 10 subsurface soil samples were collected for laboratory PAH analysis. Results exceeded the associated USEPA human health screening levels for at least on analyte in 16 of the 41 soil samples. Similarly to the MRA 859 , the CSE Phase II report recommended splitting the MRA into two MRSs: TS862 (34.6 acres) was recommended for NFA due to lack of MEC and MC exceeding USEPA RSLs and TS862a (5.7 acres) was recommended for further response actions due to range related debris on the surface, and incidental PAH constituents in surface soils that pose potential risk to human health and the environment (USACE, 2013). **Figures 7** through **9** summarize the CSE Phase II findings.

It should be noted that at the conclusion of the XRF screening activities, 12 correlation samples were selected and sent to a fixed-base analytical laboratory to evaluate whether the XRF sampling results met the method requirements for definitive data and the quality objectives for the CSE Phase II. The 12 samples selected exhibited lead results that ranged from 12 mg/kg to 463 mg/kg. Per USEPA SW-846 Method 6200, the XRF data are considered definitive if the correlation coefficient from the linear regression analysis is equal to or greater than 0.9 (USACE, 2013). The results indicated that the linear regression analysis yielded a correlation coefficient of 0.99. This indicates that all XRF data were considered to be definitive and could be used in the risk assessment and for remedial decision-making (USACE, 2013).

2.5 INITIAL MUNITIONS RESPONSE SITE PRIORITIZATION PROTOCOL

The DoD proposed the Munitions Response Site Prioritization Protocol (MRSPP) (32 Code of Federal Regulations Part 179) to assign a relative risk priority to each defense site in the MMRP inventory for response activities. The response actions are based on the overall conditions at each location and also take into consideration multiple factors related to explosive safety and environmental hazards. The application of the MRSPP applies to all sites and locations:

- That are or were owned, leased, or otherwise possessed or used by the DoD,
- That are known to or are suspected of containing munitions or explosives of concern, MC, and/or COPC, and
- That are included in the MMRP Inventory

In assigning a relative priority for response activities, the DoD typically considers MRSs which pose the greatest hazard as being the highest priority. The priority will be one factor in determining the sequence in which munitions response actions are funded in the USAF MMRP program. Each site in the program is assigned a Priority ranging from 1 to 8. Priority 1 indicates the highest potential hazard and Priority 8 indicates the lowest potential hazard. Only a site with a chemical warfare hazard can receive a Priority of 1. The MRS Priority is determined by selecting the highest hazard rating from amongst the MRSPP Explosive Hazard Evaluation, Chemical Warfare Material Hazard Evaluation, and Health Hazard Evaluation modules.

At the conclusion of the CSE Phase II SR859a Former Skeet Range 2 received a priority of 7 (SR859 Former Skeet Range 2 received a priority of 8) and TS862a Jeep Target Area Skeet Range received a priority of 5 (TS862 Jeep Target Area Skeet Ranged received a priority of 8). The MRSPP will be reevaluated for SR859a and TS862a as part of this RI utilizing a combination of the most recent findings and historic results. Results of the revised MRSPP are presented in **Section 7**.

2.6 OBJECTIVES AND PRELIMINARY REMEDIATION GOALS

The primary objectives of the RI were to further research and confirm the nature and extent of the residual contamination present at the sites to support the evaluation of remedial alternatives. Specifically:

- Review the available background data concerning historical site activities and investigatory results.
- Based on the results of the previous soil analysis, collect additional soil samples at each site from shallow soil borings and analyze for metals (antimony, arsenic, copper, lead, and zinc) using an off-site fixed base laboratory by USEPA SW-846 Method 6010C and for PAHs by USEPA SW-846 Method 8270D Selective Ion Monitoring (SIM) to aid in contaminant delineation.
- Combine results with the CSE Phase II data and compare the RI collected validated results to the USEPA RSLs (USEPA, November 2015) and New Mexico Environment Department (NMED) soil screening levels to determine the extent of contaminated soils.

Consistent with agreements/understandings achieved by the project team during the UFP-QAPP development, the UFP-QAPP was provided to the project team for review and all comments received from the reviews were resolved and incorporated in the Final UFP-QAPP for the Former Skeet Range 2 and Jeep Target Area Skeet Range RI UFP-QAPP (FPM, 2015). The

Final UFP-QAPP included a description of planned field activities to ensure a level of project data collection planning, effort, and documentation, as well as data evaluation and use is commensurate with the intended use of the information and the available resources.

2.6.1 Project Data Quality Objectives

As established during the UFP-QAPP development, the USEPA's seven-step data quality objective (DQO) process was utilized. DQOs are qualitative and quantitative statements that specify the quality of data required to support decisions and are developed to achieve the level of data quality required to meet project goals. DQOs are implemented so the data are legally and scientifically defensible. The development of DQOs for specific site and measurement takes into account project needs, data uses, and data collection.

The DQO process is a systematic planning tool that is used for establishing data quality criteria and for developing a data collection approach. The DQO process was followed for this RI to identify data needs and to collect the type, quantity, and quality of data necessary to evaluate these sites. An overview of the DQOs used in the field investigation and data collection were detailed in the Final RI UFP-QAPP. The Final RI UFP-QAPP identified field activities and data requirements to meet the objectives as well as a description of the project team assembled to meet these goals. The preliminary remediation goals identified in the UFP-QAPP were based upon ARARs for human health and the environment by way of selecting applicable conservative screening levels.

2.7 CONCEPTUAL SITE MODELS

Site-specific preliminary CSMs were developed for contamination resulting from range related activities during the CSE Phase II (USACE, 2013). These CSMs served as the starting point for the RI Work Plan and were updated with additional site information. The updated CSMs were further refined as part of the RI based on characterization and investigation results. A general discussion of the primary sources of contamination is provided below. A more detailed discussion of exposure pathways for receptors is provided in **Section 4.0**.

The SR859a Former Skeet Range 2 MRS consists primarily of desert scrubland and is not managed for ecological habitat. One XRF screening sample exceeded the USEPA RSL of 400 mg/kg and 14 of 24 soil samples indicated at least one PAH concentration in soil exceeding screening levels. Complete pathways were identified through the food chain exposure for biota from vegetation and wildlife and also through surface and subsurface soil by ingestion, dermal contact, and inhalation for base personnel, current and future contractors, future recreational users, future residents, and biota.

The TS862a Jeep Target Area Skeet Range MRS consists primarily of desert scrubland and is not managed for ecological habitat. No XRF screening samples exceeded the USEPA RSL of 400 mg/kg. At least one PAH compound exceeded the associated USEPA RSL in 16 of the 41 samples analyzed. The CSE Phase II identified complete pathways through the food chain exposure for biota from vegetation and wildlife and also through surface soil by ingestion, dermal contact, and inhalation for all receptors.

There is also a potential for residual on-site surface soil contamination to be transported from the site via wind erosion.

Access to HAFB requires admittance through a security gate and perimeter fencing is installed around the installation. There is restricted access controls associated with theSR859a Former

Skeet Range 2 due to its location within the flight line. Access is limited to authorized personnel and contractors. Flight line driver training or an escort is required to access the site. Trespasser access to the flight line is unlikely. The TS862a Jeep Target Area Skeet Range MRS is accessed through locked gates however; the site may potentially be accessed by a heavily rutted dirt road bypassing any gates.

3.0 REMEDIAL INVESTIGATION FIELD ACTIVITIES

This section describes the approach and methods for conducting the RI field activities at the SR859a Former Skeet Range 2 MRS and the TS862a Jeep Target Area Skeet Range MRS. RI activities were conducted in accordance with the approved Final RI UFP-QAPP (FPM, 2015), between 26 March 2015 and 30 March 2015.

3.1 SUMMARY OF RI FIELD ACTIVITIES

The RI field approach included the sampling of shallow soils (collection interval from the surface to approximately 18-inches bgs) from the MRS perimeter at discrete locations and also identified potential "hot spots" for off-site laboratory analysis. Laboratory analysis included select munitions related metals (arsenic, antimony, copper, lead, and zinc) by USEPA SW-846 Method 6010C, and PAH compounds by USEPA SW-846 Method 8270D Selected SIM.

All laboratory analytical work was performed by Accutest Laboratories in Orlando, Florida, a DoD accredited laboratory. Daily site reports and field notes are presented in **Appendix A** (photographs were unable to be taken at the sites due to security protocols), raw laboratory data are included in **Appendix B**, while the RI validated data is included in **Appendix C**. A generalized overview of the field activities conducted at each site is presented below and detailed results are presented in **Section 4**.

Building on historical soil sampling and XRF screening results, a total of 20 shallow soil samples (collection interval of 0 to 18 inches bgs) were collected at the SR859a Former Skeet Range 2 MRS from previously identified contaminated areas and the MRS boundary to confirm and aid in defining residual soil contamination above the USEPA residential RSLs for metals (antimony, arsenic, copper, lead, and zinc) and PAHs. Similarly, utilizing historical data, a total of 20 shallow soil samples (collection interval of 0 to 18 inches bgs) were collected at the TS862a Jeep Target Area Skeet Range MRS boundary and analyzed for metals and PAHs resulting from clay target debris. Soil samples were collected utilizing a stainless steel hand auger and soil from the specified collection depth interval were thoroughly homogenized to maintain sample integrity for that specific collection depth interval prior to packing and sealing into laboratory containers. The tooling was then decontaminated between sample collection locations. A Trimble Geo XH 6000 Differential Global Positioning System unit was used to locate and record all sampling locations along with any notable features. **Figures 10** and **11** illustrate the sample collection locations along with the CSE Phase II sample locations for SR859a and TS862a respectively.

3.1.1 Quality Control Program

The primary purpose of the quality control (QC) program is to evaluate tasks, procedures, and processes identified as definable work features for this RI. The quality policies established within the RI Work Plan (FPM, 2015) and the implementation of the plan and procedures are applicable to all participating project personnel. The plan is applicable to all site activities affecting quality including, soil sampling investigations and data management.

Field performance was evaluated to ensure that the quality standards and objectives of the RI Work Plan were met. The evaluation of the field performance was accomplished through audits of the Daily Reports. During the field effort no non-conformances or deficiencies were identified requiring corrective actions. In addition, field audits were conducted periodically by the site lead.

The audit process involved identifying, documenting, and reporting non-conformances or deficiencies, initiating corrective actions through appropriate channels, and conducting a compliance review. The field team involved with site work was responsible for reporting any suspected technical non-conformances or deficiencies to the Project Manager and Quality Control Officer.

The data quality requirements associated with RI field activities are defined in UFP-QAPP Work Plan. These requirements applied to all field activities that affected the quality of work and work products.

4.0 FIELD INVESTIGATION RESULTS

4.1 SR859a FORMER SKEET RANGE 2 MRS

4.1.1 Laboratory Soil Analysis

Soil sampling was conducted according to the approved work plan and as previously discussed in **Section 3.0**. To delineate and aid in defining the nature and extent of residual contamination at the site, total of 20 additional discrete soil samples were collected. The results are compiled with the CSE Phase II data for completeness. RI soil samples were analyzed for metals by USEPA SW-846 Method 6010C and PAHs by USEPA SW-846 Method 8270D SIM. Determination of analysis was based on previous sampling and visual reconnaissance data from the CSE Phase II. It should be noted that CSE Phase II laboratory data included PAHs only. As presented in **Section 2.4.2** and **Figures 5a** through **5d**, the CSE Phase II XRF survey results indicated that only one location out of 143 locations exhibited a lead soil concentration above the USEPA Residential RSL of 400 mg/kg. RI soil samples were taken from the north and south of this location (CSE Phase II locations determined the east and west boundary) to define the extent of residual lead contamination. **Table 1** presents the results of the RI metals and PAH analyses of discrete soil samples and **Table 2** presents the CSE Phase II PAH analytical results. **Figure 10** illustrates the sample collection locations for SR859a along with notable site features.

4.1.1.1 RI Soil Analytical Results

RI soil sample metals analytical data indicated that arsenic was the only analyte with concentrations that exceeded the corresponding USEPA Residential RSL. Arsenic was detected at levels exceeding the USEPA Residential RSL of 0.68 mg/kg in all 20 RI samples analyzed, ranging from 1.1 mg/kg to 3.9 mg/kg. Although the arsenic concentrations exceeded the USEPA Residential RSL, the calculated state of New Mexico average arsenic background centration as reported by the USEPA has been established at 5.9 mg/kg (USEPA, 2005). The calculated HAFB background arsenic concentration for shallow subsurface soils was calculated at 4.75 mg/kg (Nation View, 2011). All analytical results were below this state wide and HAFB soil concentration value.

As previously stated, 20 soil samples were collected from the MRS boundary and previously identified areas of residual contamination and analyzed for PAHs by USEPA SW-846 Method 8270D SIM. Analytical results from 18 of the 20 samples collected did not indicate any detection of PAHs. Furthermore, only 1 PAH compound was detected in one sample location at a concentration exceeding the respective USEPA Residential RSL.

- Benzo(a)pyrene was detected at a concentration exceeding the USEPA Residential RSL of 0.016 mg/kg in one sample collected from location 10. The detected concentration in this soil sample was 0.037 mg/kg and J qualified. The J qualifier indicates that the analyte was positively identified above the method detection limit, but the concentration is below the reporting limit.

These aforementioned results are presented in **Table 1**; **Appendices B** and **C** provide the raw analytical laboratory results and the validated results respectively. **Figure 10** illustrates the RI sample locations from the SR859a Former Skeet Range 2 MRS.

4.1.1.2 CSE Phase II Soil Analytical Results Summary

A total of twenty-four (24) soil sample locations were collected during the CSE Phase II investigation and analyzed for PAHs (**Table 2**). The total includes 20 soil samples collected from the surface to 6-inches bgs, 2 subsurface samples collected from 6-12-inches bgs, and 2 additional subsurface samples collected from 12-18-inches bgs (USACE, 2013). PAH soil sample locations are presented in **Figure 6** (CSE Phase II) and **Figure 10** (RI). The CSE Phase II PAH analytical results are presented in **Table 2** and have been revised to compare detected results to current USEPA RSLs (November, 2015). Seven (7) PAH compounds were detected at concentrations exceeding their respective USEPA Residential RSL.

- Benzo(a)anthracene was detected at concentrations exceeding the USEPA Residential RSL of 0.16 mg/kg in 10 soil samples. The maximum detected concentration of 60 mg/kg was detected in sample C-LS-HL-04-SS-397.
- Benzo(a)pyrene was detected at concentrations exceeding the USEPA Residential RSL of 0.016 mg/kg in 14 soil samples. The maximum detected concentration was 51 mg/kg and was detected in sample C-LS-HL-04-SS-397.
- Benzo(b)fluoranthene was detected at concentrations exceeding the USEPA Residential RSL of 0.16 mg/kg in 11 soil samples. The maximum detected concentration was 65 mg/kg and was also detected in sample C-LS-HL-04-SS-397.
- Benzo(k)fluoranthene was detected at concentrations exceeding the USEPA Residential RSL of 1.6 mg/kg in 5 soil samples. The maximum detected concentration was 45 mg/kg and was also detected in sample C-LS-HL-04-SS-397.
- Chrysene was detected at concentrations exceeding the USEPA Residential RSL of 16 mg/kg in 2 soil samples. The maximum detected concentration was 62 mg/kg and was also detected in sample C-LS-HL-04-SS-397.
- Dibenz(a,h)anthracene was detected at concentrations exceeding the USEPA Residential RSL of 0.016 mg/kg in 12 soil samples. The maximum detected concentration was 9.2 mg/kg and was also detected in sample C-LS-HL-04-SS-397.
- Indeno(1,2,3-cd)pyrene was detected at concentrations exceeding the USEPA Residential RSL of 0.16 mg/kg in 8 soil samples. The maximum detected concentration was 30 mg/kg and was also detected in sample C-LS-HL-04-SS-397.

4.2 TS862a JEEP TARGET AREA SKEET RANGE MRS

4.2.1 Laboratory Soil Analysis

Soil sampling at TS862a was conducted according to the approved work plan and as previously discussed in **Section 3.0**. To delineate and aid in defining the nature and extent of residual contamination at the site, total of 20 additional discrete soil samples were collected. Similar to the SR859a MRS, the results are compiled with the CSE Phase II data for completeness. RI soil samples were analyzed for metals by USEPA SW-846 Method 6010C and PAHs by USEPA SW-846 Method 8270D SIM. Determination of analysis was based on previous sampling and visual reconnaissance data from the CSE Phase II. It should be noted that CSE Phase II laboratory data included PAHs only. As presented in **Section 2.4.2** and **Figures 8a** through **8d**, the CSE Phase II XRF survey results indicated that no locations (137 locations analyzed) exhibited a lead soil concentration above the USEPA Residential RSL of 400 mg/kg. **Table 3** presents the results of the RI metals and PAH analyses of discrete soil samples and **Table 4**

presents the CSE Phase II PAH analytical results. **Figure 11** illustrates the RI sample collection locations for TS862a along with notable site features.

4.2.1.1 RI Soil Analytical Results

RI soil sample metals analytical data indicated that arsenic was the only analyte with concentrations that exceeded the corresponding USEPA Residential RSL. Arsenic was detected at levels exceeding the USEPA Residential RSL of 0.68 mg/kg in 14 RI samples analyzed, ranging from 0.95 mg/kg to 1.7 mg/kg. Although the arsenic concentrations exceeded the USEPA Residential RSL, the calculated state of New Mexico average arsenic background centration as reported by the USEPA has been established at 5.9 mg/kg (USEPA, 2005). The calculated HAFB background arsenic concentration for shallow subsurface soils was calculated at 4.75 mg/kg (Nation View, 2011). All analytical results were below this state wide and HAFB soil concentration value.

As previously stated, 20 soil samples were collected from the MRS boundary and analyzed for PAHs by USEPA SW-846 Method 8270D SIM. Analytical results from 18 of the 20 samples collected did not indicate any detection of PAHs. Furthermore, there were no reported concentrations of any PAH compound exceeding the respective USEPA RSL.

These aforementioned results are presented in **Table 3**; **Appendices B** and **C** provide the raw analytical laboratory results and the validated results respectively. **Figure 11** illustrates the RI sample locations from the TS862a Jeep Target Area Skeet Range MRS.

4.2.1.2 CSE Phase II Soil Analytical Results

A total of forty-one (41) soil sample locations were collected during the CSE Phase II investigation and analyzed for PAHs. The total includes 31 soil samples collected from the surface to 6-inches bgs, 5 subsurface samples collected from 6-12-inches bgs, and 5 additional subsurface samples collected from 12-18-inches bgs (USACE, 2013). PAH soil sample locations are presented in **Figure 9** (CSE Phase II) and **Figure 11** (RI). The CSE Phase II PAH analytical results are presented in **Table 2** and have been revised to compare detected results to current USEPA RSLs. Seven (7) PAH compounds were detected at concentrations exceeding their respective USEPA Residential RSL.

- Benzo(a)anthracene was detected at concentrations exceeding the USEPA Residential RSL of 0.16 mg/kg in 10 soil samples. The maximum detected concentration of 180 mg/kg was detected in sample C-LS-HL-05-SS-890.
- Benzo(a)pyrene was detected at concentrations exceeding the USEPA Residential RSL of 0.016 mg/kg in 15 soil samples. The maximum detected concentration was 170 mg/kg and was detected in sample C-LS-HL-05-SS-890.
- Benzo(b)fluoranthene was detected at concentrations exceeding the USEPA Residential RSL of 0.16 mg/kg in 11 soil samples. The maximum detected concentration was 190 mg/kg and was also detected in sample C-LS-HL-05-SS-890.
- Benzo(k)fluoranthene was detected at concentrations exceeding the USEPA Residential RSL of 1.6 mg/kg in 3 soil samples. The maximum detected concentration was 45 mg/kg and was also detected in sample C-LS-HL-05-SS-890.
- Chrysene was detected at concentrations exceeding the USEPA Residential RSL of 16 mg/kg in 1 soil sample. The maximum detected concentration was 170 mg/kg and was also detected in sample C-LS-HL-05-SS-890.

- Dibenz(a,h)anthracene was detected at concentrations exceeding the USEPA Residential RSL of 0.016 mg/kg in 14 soil samples. The maximum detected concentration was 9.2 mg/kg and was also detected in sample C-LS-HL-05-SS-890.
- Indeno(1,2,3-cd)pyrene was detected at concentrations exceeding the USEPA Residential RSL of 0.16 mg/kg in 9 soil samples. The maximum detected concentration was 100 mg/kg and was also detected in sample C-LS-HL-05-SS-890.

5.0 CONTAMINANT FATE AND TRANSPORT

5.1 CONTAMINANT FATE AND TRANSPORT

Fate and transport of contaminants depends on a variety of factors. Contaminant fate refers to the expected final state that an element, compound, or group of compounds will achieve following release to the environment. Contaminant transport refers to the mechanisms and rates of migration of contaminants away from the source area. Each pathway includes a source, an exposure medium, an exposure route, and a receptor. Mobility of metals and PAHs in soils at SR859a and TS862a is dependent on the physical/chemical properties of the contaminant and the physical environment (precipitation, soil characteristics, and vegetation).

Range related contaminants may be absorbed by soil grains, remain as fragments in soils, or potentially be dissolved by precipitation. Based on the results of soil sampling completed during the RI and CSE Phase II, concentrations of lead and select PAHs above the USEPA Residential RSL remain in site soils.

5.2 TRANSPORT MECHANISMS/MIGRATION ROUTES

Natural physical processes, including prevailing wind erosion and soil erosion may have caused contamination to move within the environment. Human activities, including construction, maintenance, or other activities may have caused contaminants to be transported.

The primary transport mechanisms and their viability and potential significance at the Former Skeet Range 2 and Jeep Target Area Skeet Range sites include the following:

Erosion: Some soil erosion by the wind may occur, particularly in the sandier soils present at the two sites. Due to a semi-arid climate and soil type, however, runoff potential is low. It is likely that wind erosion has been (or may be) a contributor to transporting contaminated soils.

***Soil Disturbance*:** Surface and subsurface disturbances can lead to transport and migration of site related contaminants from one environmental media to another (subsurface soil to surface soil and surface water or groundwater or both) through surface water runoff, erosion, and/or infiltration. Soil disturbance by unauthorized personnel is unlikely due to the location of SR859 and TS862; however, maintenance and/or training and construction activities at the sites could disturb contaminated soil.

Infiltration: The average depth to groundwater at HAFB ranges from 5 to 50ft bgs across the installation. Movement of residual chemical constituents from surface soil to subsurface soil and groundwater is typically facilitated by precipitation, with the greatest mobility expected for compounds with higher water solubility. However, relatively insoluble compounds such as lead and PAHs may be transported to subsurface soils via a combination of mechanisms (soil disturbance by animals plus surface runoff, preferential pathways created by plants. etc.).

5.3 REVISED CONCEPTUAL SITE MODEL

A preliminary CSM was completed as part of the Final SR859a Former Skeet Range 2 and TS62a Jeep Target Area Skeet Range RI UFP-QAPP (FPM, 2015). This section presents the revised CSM, consistent with findings from the RI field activities and CSE Phase II data. Site-specific CSMs summarize available site information and identify relationships between exposure pathways and potential associated receptors. A CSM is used to convey the collected data types and describe site conditions along with quantifying receptor exposure. The site-specific revised

CSMs and subsequent RI Report sections discuss and/or convey the following information; detailed description of site specific exposure risks are presented in **Section 6**.

- Current site conditions and future land use;
- Affected media;
- Governing fate and transport processes (e.g., migration/infiltration and/or weathering erosion);
- Exposure media (i.e., media through which receptors could contact site-related contaminants);
- Routes of exposure (e.g., inhalation, incidental ingestion, and dermal contact);
- Potential human and/or representative ecological receptors at the exposure point; and
- Receptors likely to be exposed to site contamination are identified based on current and expected future land uses.

The revised exposure pathways based on data collected during the RI field activities are shown on **Figures 12** and **13** for the SR859a Former Skeet Range 2 MRS and TS862a Jeep Target Area Skeet Range MRS, respectively. The site-specific CSMs summarize available site information and identify relationships between exposure pathways and associated receptors.

5.3.1 SR859a Former Skeet Range 2 MRS

As stated in **Section 2.2**, the MRS consists of approximately 8.1 acres of land in the southern portion of the installation, approximately 1,300 ft. north of Forty Niner Avenue and 650 ft. north of the Holloman runway control tower (**Figures 1 and 2**). The MRS consists primarily of desert scrubland and is not managed for ecological habitat. The SR859a Former Skeet Range 2 MRS lies within the northern triangle formed by the HAFB runways.

5.3.1.1 Current and Future Land Use

The site is currently unused and consists of open desert scrubland. Due to the location of the MRS within the airfield various dirt access roads and aircraft taxiways including the adjacent runway are present. No future changes to the current land use are anticipated for this site.

5.3.1.2 Accessibility

Access to HAFB requires admittance through a security gate and perimeter fencing. There are restricted access controls associated with the MRS due to its location within the flight line. Due to the location, access is limited to authorized base personnel and contractors. Flight line driver training and an escort are required to access the site. Trespasser access is unlikely (USACE, 2013).

5.3.1.3 Potential Receptors

Potential current and future human receptors include authorized HAFB personnel, authorized contractors and potential future residents. Various site activities present potential exposure pathways for the aforementioned receptors, including: airfield/aircraft personnel and site maintenance personnel. Since threatened or endangered species are not known to inhabit the site, they are not included as receptors with complete pathways.

5.3.2 TS862a Jeep Target Area Skeet Range MRS

The TS862a Jeep Target Area Skeet Range MRS is located just northeast of the active Jeep Target Area (**Figures 1** and **3**). The site consists of open unused desert scrubland.

5.3.2.1 Current and Future Land Use

Currently the site is unused. However, training activities may occasionally use areas adjacent to the site. No live ammunitions would be associated with this training therefore, no continued lead and/or PAH contamination would be expected. However, blanks, smoke grenades, and artillery and grenade simulators may be used during these training exercises. No foreseeable future changes to the current land use are anticipated for this site (USACE, 2013).

5.3.2.2 Accessibility

Access to HAFB requires admittance through the security gate and there is perimeter fencing installed around the installation. The site is located to the north of gate IP-8 and may be accessed through gate IP-8 or IP-7, both of which are locked. There is a dirt road that may be used to access the site which bypasses both of these gates. Therefore, access to the MRS is restricted for the general public, but is open to base personnel, contractors, and residents.

5.3.2.3 Potential Receptors

Potential current and future human receptors include authorized HAFB personnel, authorized contractors, and any potential current or future base residents. Various site activities present potential exposure pathways for the aforementioned receptors, including: maintenance by authorized personnel and potential recreational users. Since threatened or endangered species are not known to inhabit the site, they are not included as receptors with complete pathways.

5.4 POTENTIAL CONTAMINATION HAZARDS

The results of the field investigations have confirmed the presence of lead and PAH contamination in soils at the SR859a Former Skeet Range 2 and the TS862a Jeep Target Area Skeet Range MRSs. As previously discussed, fixed base laboratory analysis confirmed that select PAHs exceed the USEPA Residential RSLs at these sites. **Figures 6** and **9** illustrate the confirmed contaminated soil sample locations at each site including associated site features. All aforementioned receptors may be subject to potential exposure to PAHs at the ground surface and shallow subsurface.

5.5 PATHWAY ANALYSIS

The exposure pathway analyses for the SR859a Former Skeet Range 2 MRS and the TS862a Jeep Target Area Skeet Range MRS are provided in **Figures 12** and **13** respectively. The exposure pathway analyses identify complete, potentially complete or incomplete pathways between contaminants identified during the RI field activities and the CSE Phase II and the ways receptors may come into contact with a source at each site. Contaminated soils at each site are the result of direct deposition of skeet range related debris. Environmental contaminants, often undergo various processes as previously described such that media outside the source area can become contaminated. Therefore, all potentially contaminated exposure media were considered at Former Skeet Range 2 and Jeep Target Area Skeet Range.

The fate and transport of contaminants at HAFB are influenced by physical and chemical properties, as well as by factors found in the environment such as groundwater, soil components, and chemical characteristics of both. Migrations of metals such as lead, and PAH compounds in site soils are controlled by the solubility of different mineralogical phases and their adsorption to soil and organic materials. Lead is nonvolatile and is relatively immobile in soil. Mobility commonly decreases with increasing soil pH. Soils rich in phosphates and/or sulfides also

reduce mobility (USACE, 2013). Lead from shotgun shells exists as metallic lead or as lead antimony alloy, both of which have low solubility and is likely to remain in this particle form near the soil surface.

Most PAHs also have low solubility in water and tend to bind to organic carbon in soil and therefore if migration were to occur in the environment it is due to particle bound materials. Low molecular weight PAHs are expected to have slight to no mobility in soil and are expected to adsorb to suspended solids and sediment in water (USACE, 2013). Low molecular weight PAHs are defined as compounds having three or fewer aromatic rings, while high molecular weight PAHs have four or more aromatic rings. In general, higher molecular weight PAHs will adsorb more readily and strongly than those with lower weights. Higher molecular weight PAHs also have greater soil organic carbon to water partition coefficient values and are expected to be immobile in soil. Volatilization of PAHs from moist soil surfaces may also be a fate process for low and medium molecular weight PAHs.

Figures 12 and **13** present an overarching exposure pathway analysis for the SR859a Former Skeet Range 2 MRS and the TS862a Jeep Target Area Skeet Range MRS, respectively. The exposure pathway analysis includes a source, a release mechanism, an environmental medium, exposure route, and potential receptor. Potential receptors (human and ecological) to soils may occur through dermal contact, and/or ingestion. As the site soils soils are somewhat un-vegetated, exposure routes may also occur through dust inhalation due to natural or mechanical disturbances. Appropriate human and ecological receptors to contaminated soil exposure were selected for the SR859a Former Skeet Range 2 MRS and the TS862a Jeep Target Area Skeet Range MRS. Human receptors considered for the evaluation included authorized personnel (contractors, HAFB personnel, maintenance workers, etc.), potential trespassers and current and future potential residents. Under the current and potential future land use scenarios, the most likely pathway to receptors is through exposure to surface soils (<2ft bgs). Ecological receptors considered were small mammals and songbirds.

Based upon the sampling conducted as part of this RI and combined with the CSE Phase II data, lead (one screening location at SR859a) and select PAHs were detected above the USEPA Residential RSLs in surface soils (0-2ft bgs) at both sites, consequently the exposure pathways are summarized for receptors in **Figures 12** and **13** and as follows

SR859a Former Skeet Range 2 MRS

Exposure to surface soil (0-2ft bgs) residual contamination is considered complete via the food chain for biota. All other food chain pathways are considered incomplete. Surface soil (0-2ft bgs) pathways are considered complete for ingestion, dermal contact, and inhalation for authorized personnel, biota, and current and potential future residents. As trespassing at this site is unlikely, all exposure pathways are considered incomplete for trespassers. Due to the lack of permanent surface water features within the MRS, it is unlikely that any current or future receptor will be exposed to possible contamination via surface water exposure. There are no current human exposure pathways for groundwater. Depending on future land use, there is a possibility that groundwater supply wells may be installed, however based on groundwater conditions, the water would also need pretreatment to be considered potable. The only potentially complete groundwater exposure pathway is to deeply rooted plants.

TS862a Jeep Target Area Skeet Range MRS

Exposure to surface soil (0-2ft bgs) residual contamination is considered complete via the food chain for biota only. Surface soil (0-2ft bgs) pathways are considered complete for ingestion, dermal contact, and inhalation for authorized personnel, trespassers, biota, and current and potential future residents. Due to the lack of permanent surface water features within the MRS, it is unlikely that any current or future receptor will be exposed to possible contamination via surface water exposure. There are no current human exposure pathways for groundwater. Depending on future land use, there is a possibility that groundwater supply wells may be installed, however based on groundwater conditions, the water would also need pretreatment to be considered potable. The only potentially complete groundwater exposure pathway is to deeply rooted plants.

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6.0 BASELINE RISK ASSESSMENT

The primary goal of a Human Health Risk Assessment (HHRA) is to provide an assessment of the potential human health risks associated with a site in the absence of any potential future remedial actions, considering current land use, as well as foreseeable potential future uses of the property. Furthermore, the HHRA characterizes the nature of chemical releases from a site and evaluates potential pathways for exposure to human receptors. Specifically, this HHRA was conducted to:

1. Identify site-specific COPCs under the current industrial land-use and a hypothetical residential land-use.
2. Conduct a streamlined risk assessment using a simple ratio method to compare site concentrations to RSL associated a cancer risk of 1 x 10^{-6} and a Hazard Index (HI) of 1.0.

6.1 CHEMICAL OF POTENTIAL CONCERN

The data used to identify the COPCs consisted of the following:

- Surface soil samples were collected from the SR859a Former Skeet Range 2 MRS and the TS862a Jeep Target Area Skeet Range MRS as previously discussed. Samples were analyzed by a DoD Environmental Laboratory Accreditation Program certified laboratory.
- Data from this investigation and the CSE Phase II were used in this risk assessment.

The data evaluation included the calculation of basic statistics for each dataset evaluated in the HHRA. Basic statistics included frequency of detection, range of positive detections, arithmetic mean, and the most appropriate 95 percent (%) upper confidence limit (UCL) of the mean. Basic statistics depended on the data distribution and the skewness, as predicted by USEPA Technical Support Center ProUCL Version 5.0 (USEPA, 2013) (Worksheets are provided in **Appendix D**). These statistics were also used in the determination of the exposure point concentration (EPC) selected in the exposure assessment.

COPCs were identified by comparing the maximum surface soil concentrations from each site to the appropriate USEPA RSL. If an analyte was detected at a concentration which exceeded its corresponding USEPA RSL, then the chemical was retained to be evaluated further in the screening level HHRA. COPCs were identified under the potential future residential use scenario. **Tables 5** and **6** provide a summary of the COPCs for the sites, respectively. The following are the specific chemicals that will be evaluated further for each site:

<u>SR859a Former Skeet Range 2 MRS – Residential Use</u>

- lead, benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, benzo(k)fluoranthene, chrysene, dibenz(a,h)anthracene, and indeno(1,2,3-cd)pyrene.

<u>TS862a Jeep Target Area Skeet Range MRS – Residential Use</u>

- benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, benzo(k)fluoranthene, chrysene, dibenz(a,h)anthracene, and indeno(1,2,3-cd)pyrene.

6.2 STREAMLINED HUMAN HEALTH RISK ASSESSMENT

It is important to note that for the aforementioned COPCs, residential RSLs used to screen site samples are based on a cancer risk of 1 x 10^{-6} and a HI of 1.0. In general, consistent with the NCP and USEPA Risk Assessment Guidance, sites with a cumulative carcinogenic site risk

calculated to be less than 1 x 10^{-6} are not subject to remediation while cumulative carcinogenic risk that is calculated to be greater than 1 x 10^{-4} must be remediated. However, cumulative site carcinogenic risk that is calculated to be between 1 x 10^{-4} and 1 x 10^{-6} is considered to be within the risk management range such that decisions regarding whether and how to remediate can be made after weighing numerous factors. To assess cancer and non-cancer risks, the cancer risk and HI are reported to one significant figure (USEPA, 1989). For example, a calculated cancer risk of 4.61 x 10^{-7} is rounded to 5 x 10^{-7} and a HI of 1.2 is rounded to 1. Potential site risks for each of the aforementioned COPCs, based on residential scenarios have been estimated using a simple ratio method and summarized in **Tables 7** and **8**. The calculated cancer risk and/or calculated HI is derived by dividing the EPC by the appropriate RSL and then multiplying by the target cancer risk or Hazard Quotient (HQ). The EPC used for this screening scenario was the most appropriate calculated 95% UCL of the mean and considered as the upper bound reasonable maximum exposure (RME) estimate of risks to potential receptors. In addition, the results of the estimated risks help refine site-specific chemicals of concern to carry on through the risk assessment. These chemicals are defined as contaminants detected at a site that significantly contribute to a pathway in an exposure scenario for a receptor that either exceeds a carcinogenic risk of 1 x 10^{-4} or exceeds a non-carcinogenic HI of 1 under an anticipated land use scenario. Contaminants are not considered to be significant contributors to risk if their individual carcinogenic risk contribution is less than 1 x 10^{-6} and their non-carcinogenic hazard quotient is less than 1. The streamlined human health risk assessment will also be used to screen out media-specific exposure if the cumulative cancer risk is below or within the cancer risk range of 1 x 10^{-4} to 1 x 10^{-6} and the non-cancer risk is less than or equal to 1. The following are a summation of the site risks determined for each site from as presented in **Tables 7** and **8**.

As presented below for SR859a Former Skeet Range 2 MRS, soils for residential use pose a risk for cancerous effects as indicated by the calculated cumulative cancer risk of 6 x 10^{-4}. Lead concentrations at the site do not pose a risk exceeding the target risk management range from either exposure scenario.

The calculated data for TS862a Jeep Target Area Skeet Range MRS indicate that the calculated cumulative PAH related cancer risk of 1 x 10^{-3} exceeds the high end of the acceptable residential range of 1 x 10^{-4}.

<u>SR859a Former Skeet Range 2 MRS – Residential Use</u>

Analyte	Calculated Cancer Risk	Hazard Index
Benzo(a)anthracene	4 x 10^{-5}	Not Established
Benzo(a)pyrene	4 x 10^{-4}	Not Established
Benzo(b)fluoranthene	5 x 10^{-5}	Not Established
Benzo(k)fluoranthene	3 x 10^{-6}	Not Established
Chrysene	5 x 10^{-7}	Not Established
Dibenz(a,h)anthracene	7 x 10^{-5}	Not Established
Indeno(1,2,3-cd)pyrene	2 x 10^{-5}	Not Established
Lead	Not Applicable	0

- Cumulative cancer risk of 6 x 10^{-4} and HI of 0.

TS862a Jeep Target Area Skeet Range – Residential Use

Analyte	Calculated Cancer Risk	Hazard Index
Benzo(a)anthracene	1×10^{-4}	Not Established
Benzo(a)pyrene	1×10^{-3}	Not Established
Benzo(b)fluoranthene	1×10^{-4}	Not Established
Benzo(k)fluoranthene	7×10^{-6}	Not Established
Chrysene	1×10^{-6}	Not Established
Dibenz(a,h)anthracene	2×10^{-4}	Not Established
Indeno(1,2,3-cd)pyrene	6×10^{-5}	Not Established

- Cumulative cancer risk of 1×10^{-3} and HI of 0.

6.3 UNCERTAINTY ANALYSIS

This section presents a brief summary of uncertainties inherent in this streamlined risk assessment and includes a discussion of how they may affect the quantitative risk estimates and conclusions of the risk analysis. Once the risk assessment is complete, the results must be reviewed and evaluated to identify the type and magnitude of uncertainty involved. Reliance on results from a risk assessment without consideration of uncertainties, limitations, and assumptions inherent in the process can be misleading.

Uncertainty in the selection of COPCs is related to the current status of the predictive databases, the grouping of samples, and the procedures used to include or exclude constituents. Uncertainty associated with the exposure assessment includes the values used as input variables for a given intake route/scenario, the assumptions made to determine EPCs, and the predictions regarding future land-use and population characteristics. Uncertainty in the toxicity assessment includes the quality of the existing toxicity data needed to support dose-response relationships and the weight-of-evidence used for determining the carcinogenicity of COPCs. Uncertainty in the risk characterization includes that associated with exposure to multiple chemicals and the cumulative uncertainty from combining conservative assumptions made in the streamlined risk assessment process.

In general, assumptions, which are often based (in part) on safety factors, are made so that the final calculated risks are overestimated.

6.3.1 Uncertainty Associated with Chemicals of Potential Concern Selection

The following issues may contribute to uncertainty in COPC selection:

- Data collection and evaluation;
- The existing database; and
- The screening levels used.

6.3.1.1 Data Collection and Evaluation

The analytical data used in this assessment was soils data from investigation areas at the HAFB SR859a Former Skeet Range 2 MRS and TS862a Jeep Target Area Skeet Range MRS. These data are subject to uncertainty associated with sampling location and analyses and subsequent evaluation.

In this streamlined HHRA, it was assumed that samples collected were representative of the area to which various populations may be exposed. The systematic characterization of the

investigation areas focused on supplying the data needed to support the risk assessment and remediation decision making process. However, the collected samples may not be completely representative due to biases in sampling locations and to random variability of samples. Soils are not homogeneously distributed in the environment. While random variability of the media sampled could result in either an over- or under-estimation of site-related chemical concentrations, and thus, site risks, the use of biased data is more likely to over-estimate than under-estimate risks.

6.3.1.2 Existing Databases

Samples were analyzed using approved procedures and were subject to data validation procedures to assure that data were suitable for use in decision making (**Appendix C** – RI Data Validation Reports). However, sample analyses are subject to uncertainties with precision and accuracy. Uncertainties associated with precision and accuracy of analytical methods are generally random. While these sources of error are typically of low magnitude compared to other sources of uncertainty, they may contribute to an over- or under-estimation of risks. All chemical data used in this HHRA were reviewed by a qualified chemist. Given the data validation efforts that were performed on the data used to support this HHRA, it is reasonable to conclude that the data used in this risk assessment were of acceptable quality.

6.3.1.3 Chemicals of Potential Concern Screening Levels

The use of risk-based screening values should ensure that the significant contributors to risk from a site are not eliminated but are retained for risk evaluation. COPC screening values were based on conservative land-use scenarios (e.g., residential).

In addition, the toxicity values used in the derivation of project action levels are subject to change, as additional information (e.g., from scientific research) becomes available; these periodic changes in toxicity values may cause the project action levels to change as well.

6.3.2 Uncertainty Associated with Exposure Assessment

Uncertainty in the exposure assessment arises because of the methods used to calculate EPCs and the selection of exposure parameters.

6.3.2.1 Exposure Parameters

Selected exposure parameters are generally designed to be conservative so that no actual exposed population will receive greater exposures than those estimated. Exposure parameters were used to bound the upper and best estimate levels of reasonable maximum exposures. All pathways that could reasonably be complete under the land use scenarios were evaluated quantitatively for their potential to be associated with adverse health effects. There is a high degree of certainty that total exposures are not underestimated for any actual exposed population. Exposure at future use of the site was assumed to be comparable to residential use and not current use.

6.3.3 Uncertainty Associated with Toxicity Assessment

The identified COPCs were not eliminated based on low risk levels falling into an acceptable risk range for cancer under the potential future use of the sites.

6.3.4 Uncertainty in Risk Characterization

Uncertainties associated with risk characterization include the assumption of chemical additively and the inability to predict synergistic or antagonistic interactions between COPCs. These

uncertainties are inherent in any inferential risk assessment. USEPA-promulgated inputs to the quantitative risk assessment and toxicological indices are calculated to be protective of the human receptor and to error conservatively, so as not to underestimate the potential human health risks.

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7.0 MUNITIONS RESPONSE SITE PRIORITIZATION PROTOCOL

The MRSPP was completed in accordance with 32 Code of Federal Regulations Part 179 to assign a relative priority to each defense site in the MMRP Inventory for response activities. These response activities are based on the overall conditions at each location and take into consideration various factors related to explosive safety and environmental hazards. The application of the MRSPP applies to all locations:

- That are or were owned, leased to, or otherwise possessed or used by DoD.
- That are known to or are suspected of containing Munitions and Explosives of Concern or MC.
- That are included in the MMRP Inventory.

In assigning a relative priority for response activities, DoD generally considers sites posing the greatest hazard as being the highest priority. In the USAF MMRP, the MRSPP priority were one factor in determining the sequence in which munitions response actions are funded. The following sections are a brief summary of the modules of the MRSPP and the results of the evaluations for SR859a Former Skeet Range 2 MRS and TS862a Jeep Target Area Skeet Range MRS at HAFB. The MRSPP worksheets tables for these two sites are included in **Appendix E**.

7.1 EXPLOSIVE HAZARD EVALUATION MODULE

The Explosive Hazard Evaluation (EHE) module assesses the explosive hazards of a site based on the known or suspected presence of an explosive hazard. The EHE Module is composed of three factors, each of which has two to four data elements that are intended to assess the specific conditions at a site. Based on the site-specific information, each data element is assigned a numeric score, and the sum of these values is the EHE Module score and is used to determine the corresponding EHE Module rating. The data elements are as follows:

- **Explosive Hazard Factor**. Has the data elements *Munitions Type and Source of Hazard* and constitutes 40 percent of the EHE Module score.
- **Accessibility Factor**. Has the data elements *Location of Munitions, Ease of Access, and Status of Property* and constitutes 40 percent of the EHE Module Score.
- **Receptor Factor**. Has the data elements *Population Density, Population Near Hazard, Types of Activities/Structures, and Ecological and/or Cultural Resources* and constitutes 20 percent of the EHE Module score.

The two MRSs investigated during this RI received the EHE Module rating of G, which corresponds to a priority of 8. The EHE ratings were based on historical site activities and usage as small arms ranges.

The EHE Module ratings are preliminary, awaiting stakeholder input. The EHE Module worksheet tables are presented in **Appendix E**.

7.2 CHEMICAL WARFARE MATERIEL HAZARD EVALUATION MODULE

The Chemical Warfare Materiel Hazard Evaluation (CHE) module provides an evaluation of the chemical hazards associated with the physiological effects of Chemical Warfare Materiel. The CHE Module is used only when Chemical Warfare Materiel in the form of MEC or MC are known or suspected of being present at a site. Like the EHE Module, the CHE Module has three factors, each of which has two to four data elements that are intended to assess the conditions at a site. These factors are as follows:

- **Chemical Warfare Materiel Hazard Factor**. Has the data elements *Chemical Warfare Materiel Configuration* and *Sources of Chemical Warfare Materiel* and constitutes 40 percent of the CHE score.
- **Accessibility Factor**. Focuses on the potential for receptors to encounter the Chemical Warfare Materiel known or suspected to be present on a site. This factor consists of the data elements *Location of Chemical Warfare Materiel, Ease of Access,* and *Status of Property* and constitutes 40 percent of the CHE score.
- **Receptor Factor**. Focuses on the human and ecological populations that may be impacted by the presence of Chemical Warfare Materiel. It has the data elements *Population Density, Population Near Hazard, Types of Activities/Structures,* and *Ecological and/or Cultural Resources* and constitutes 20 percent of the CHE score.

Similar to the EHE Module, each data element is assigned a numeric value, and the sum of these values is the CHE Module score which is used to determine the corresponding CHE Module rating. If Chemical Warfare Materiel is not known or suspected then the CHE Module rating is No Known or Suspected Chemical Warfare Materiel Hazard.

The two sites both received the Alternative CHE Module rating of No Known or Suspected Chemical Warfare Materiel Hazard. This was due to the fact that no historical or physical evidence was found during the RI field activities that indicated Chemical Warfare Materiel was present at the sites. The CHE Module retains are preliminary, awaiting stakeholder input. The Module worksheet tables are presented in **Appendix E**.

7.3 HUMAN HAZARD EVALUATION MODULE

The Health Hazard Evaluation (HHE) module provides a consistent DoD-wide approach for evaluating the relative risk to human health and the environment posed by contaminants (i.e., MC) present at a site. The module has three factors that are as follows:

- **Contamination Hazard Factor**. Evaluates potential risk posed by contaminants and contributes a level of High, Medium, or Low based on Significant, Moderate, or Minimal contaminants present, respectively.
- **Migration Pathway Factor**. Assesses the potential for MC or incidental contaminants to migrate from a site and contributes a level of High, Medium, or Low based on Evident, Potential, or Confined pathways, respectively.
- **Receptor Factor**. Evaluates the presence of receptors that may be exposed and contributes a level of High, Medium, or Low based on Identified, Potential, or Limited receptors respectively.

The HHE builds on the DoD Relative Risk Site Evaluation framework that is used in the Installation Restoration Program. The Contamination Hazard Factor, Migration Pathway Factor, and Receptor Factor are based on quantitative evaluation of MC and/or CERCLA hazardous

substances and qualitative evaluation of pathways and human and ecological receptors in surface soil, groundwater, surface water, and sediment. The HHE does not address subsurface soils. In addition, the HHE does not consider air as a pathway, because the risk through this medium from DoD MMRP sites with soil contamination is generally minimal.

The High, Medium, and Low levels for the Contamination Hazard Factor, Migration Pathway Factor, and Receptor Factor are combined in a matrix to obtain composite three-letter combination levels that integrate considerations of all three factors. The three-letter combination levels are organized by frequency and the combination of the frequencies results in the HHE Module rating.

SR859a Former Skeet Range 2 received the HHE combination of Medium, Low, Low and an HHE Module rating of F, which corresponds to an MRSPP priority of 7. The HHE module ratings were based primarily on the soil human endpoint rating with high concentrations of lead and PAHs that exceed screening criteria.

TS862a Jeep Target Area Skeet Range received the HHE combination of Medium, Medium, Medium and an HHE Module rating of D, which corresponds to an MRSPP priority of 5. The HHE module ratings were based primarily on the soil human endpoint rating with high concentrations of PAHs that exceed screening criteria.

The HHE Module ratings are preliminary, awaiting stakeholder input. The HHE Module worksheet tables are presented in **Appendix E**.

7.4 MRSPP SCORE

In accordance with the DoD MRSPP Primer, each site is assigned an MRSPP Priority ranging from 1 to 8. Priority 1 indicates the highest potential hazard and Priority 8 indicates the lowest potential hazard. Only a site with a potential Chemical Warfare Hazard can receive a Priority of 1. The priority is determined by selecting the highest rating from amongst the EHE, CHE, and HHE modules. For example, if the EHE rating is 2, the CHE rating is 5, and the HHE rating is 4, the priority assigned to the site would be 2. The priority will be used to determine the future funding sequence of sites for further munitions response action. The overall MRSPP priorities for the sites are as follows:

- SR859a Former Skeet Range 2 MRS - EHE Module rating was G, which corresponds to an MRSPP priority of 8. The CHE Module rating was No Known or Suspected Chemical Warfare Materiel Hazard. The HHE Module rating was F, which corresponds to an MRSPP priority of 7. Therefore, the overall MRSPP priority for the site is 7.
- TS862a Jeep Target Area Skeet Range MRS - EHE Module rating was G, which corresponds to an MRSPP priority of 8. The CHE Module rating was No Known or Suspected Chemical Warfare Materiel Hazard. The HHE Module rating was D, which corresponds to an MRSPP priority of 5. Therefore, the overall MRSPP priority for the site is 5.

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8.0 SUMMARY OF RESULTS

The purposes of the RI field activities were to evaluate the nature and extent of residual contamination previously identified in soils related to past range related activities, identify potential risks to human health and the environment, and to determine whether remedial actions are necessary. The field activities consisted of the collection of 20 additional soil samples at each MRS and combine with historic data collected during the CSE Phase II. RI activities at both MRSs were conducted between 26 March 2015 and 01 April 2015. The RI investigation included soil sampling for off-site laboratory analysis for select munitions related metals (antimony, arsenic, copper, lead, and zinc) by USEPA SW-846 Method 6010C and PAHs by USEPA SW-846 Method 8270D SIM. Samples were collected from the surface to approximately 18-inches bgs as previously agreed upon with the Final UFP-QAPP. All laboratory analytical work for samples collected during the RI was performed by Accutest Laboratories in Orlando, Florida, a DoD accredited laboratory.

Soil analytical results were compared against the USEPA residential soil screening levels as previously discussed and summarized in the associated data tables.

The revision of the CSM presented in **Section 5.3** shows complete pathways to potential receptors at both MRSs for multiple soil exposure pathways and receptors. However, these exposure pathways were taken into consideration and evaluated through the use of the human health risk evaluation. The results from the human health risk evaluation indicated that unacceptable risk to identified receptors as described are present from residual PAH contamination indicating that potential harmful human health effects were identified through the most conservative residential setting.

The MRSPP priority scores were greatly influenced by the HHE Module where the maximum PAH concentration to USEPA comparison value resulted in a biased high skewed ratio. SR859a Former Skeet Range 2 MRS received a MRSPP Priority of 7 while TS862a Jeep Target Area Skeet Range MRS received a MRSPP Priority of 5. As previously stated residual PAH contamination poses a risk for potential future receptors under a residential use scenario at both sites. The calculated cumulative risk exceeded the target cancer risk levels.

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9.0 CONCLUSIONS AND RECOMMENDATIONS

This section summarizes conclusions and recommendations reached as a result of the RI activities completed at the SRS859a Former Skeet Range 2 MRS and the TS862a Jeep Target Area Skeet Range MRS at HAFB. The most significant findings are summarized in this section and are reproduced directly or abstracted from information contained in this report. The conclusions provide general and comparative interpretations of the findings, in terms of the general objectives.

9.1 SUMMARY OF RI ACTIVITIES

This RI compiled and evaluated information about two sites at HAFB relating to presence of MC and associated skeet range contamination. The RI activities included the collection of additional soil samples for metals and PAH analysis to be combined and evaluated with existing CSE Phase II data. The compiled information was evaluated and used to interpret the nature and extent of metals and PAH contamination, assess metals and PAH contamination risk, and update the MRSPP for each site.

9.2 SUMMARY OF RI FINDINGS

The collected data were summarized and evaluated through contamination risk assessments for each site. Summaries of the findings are provided below.

9.2.1 SR859a Former Skeet Range 2 MRS

- **Type:** Small Arms Range
- **Size:** 8.1 acres
- **Ownership:** HAFB
- **Topography:** Flat
- **Vegetative Cover:** Desert scrubland
- **Soil Type:** Yesum-Nasa complex
- **Features:** Currently, the site consists of open, non-operational land located within the northern triangle formed by the HAFB runways.
- **Access:** Access to HAFB requires admittance through the security gate and perimeter fencing encompasses the installation. Due to the location within the flight line access is limited to authorized base personnel and contractors.
- **Range-Related Contamination Sampling Media:** Surface and shallow subsurface soils.
- **Media Impacted Above Screening Levels:** Surface and shallow subsurface soils.
- **Human Health Risk Assessment:** Residual PAH contamination poses a risk for future receptors under a residential use scenario.
- **MRSPP Priority Score:** 7

9.2.2 TS862a Jeep Target Area Skeet Range MRS

- **Type:** Small Arms Range
- **Size:** 5.7 acres
- **Ownership:** HAFB
- **Topography:** Flat
- **Vegetative Cover:** Desert scrubland
- **Soil Type:** Yesum-Nasa complex
- **Features:** Currently, the site consists of open, non-operational land located just northeast of the active Jeep Target Area. However, training activities may occur in areas adjacent to the MRS.
- **Access:** Access to HAFB requires admittance through the security entrance and there is perimeter fencing encompassing the installation. The site is located beyond locked gates, however a dirt trail may be used to access the site bypassing all gates.
- **Range-Related Contamination Sampling Media:** Surface and shallow subsurface soils.
- **Media Impacted Above Screening Levels:** Surface and shallow subsurface soils.
- **Human Health Risk Assessment:** Residual PAH contamination poses a risk for future receptors under a residential use scenario.
- **MRSPP Priority Score:** 5

9.3 RECOMMENDATIONS

The results of the RI were used to provide following recommendations for each site.

<u>SR859a Former Skeet Range 2 MRS</u>

- Based on the compiled soil results and analysis of the human health risk assessment which indicated that identified contamination from samples collected during this RI and the CSE Phase II poses a risk to potential future receptors under a residential use scenario. Further Action is recommended to address identified contamination present in site soils.

<u>TS862a Jeep Target Area Skeet Range</u>

- Based on the compiled soil results and analysis of the human health risk assessment which indicated that identified contamination from samples collected during this RI and the CSE Phase II poses a risk to potential future receptors under a residential use scenario. Further Action is recommended to address identified contamination present in site soils.

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FIGURES

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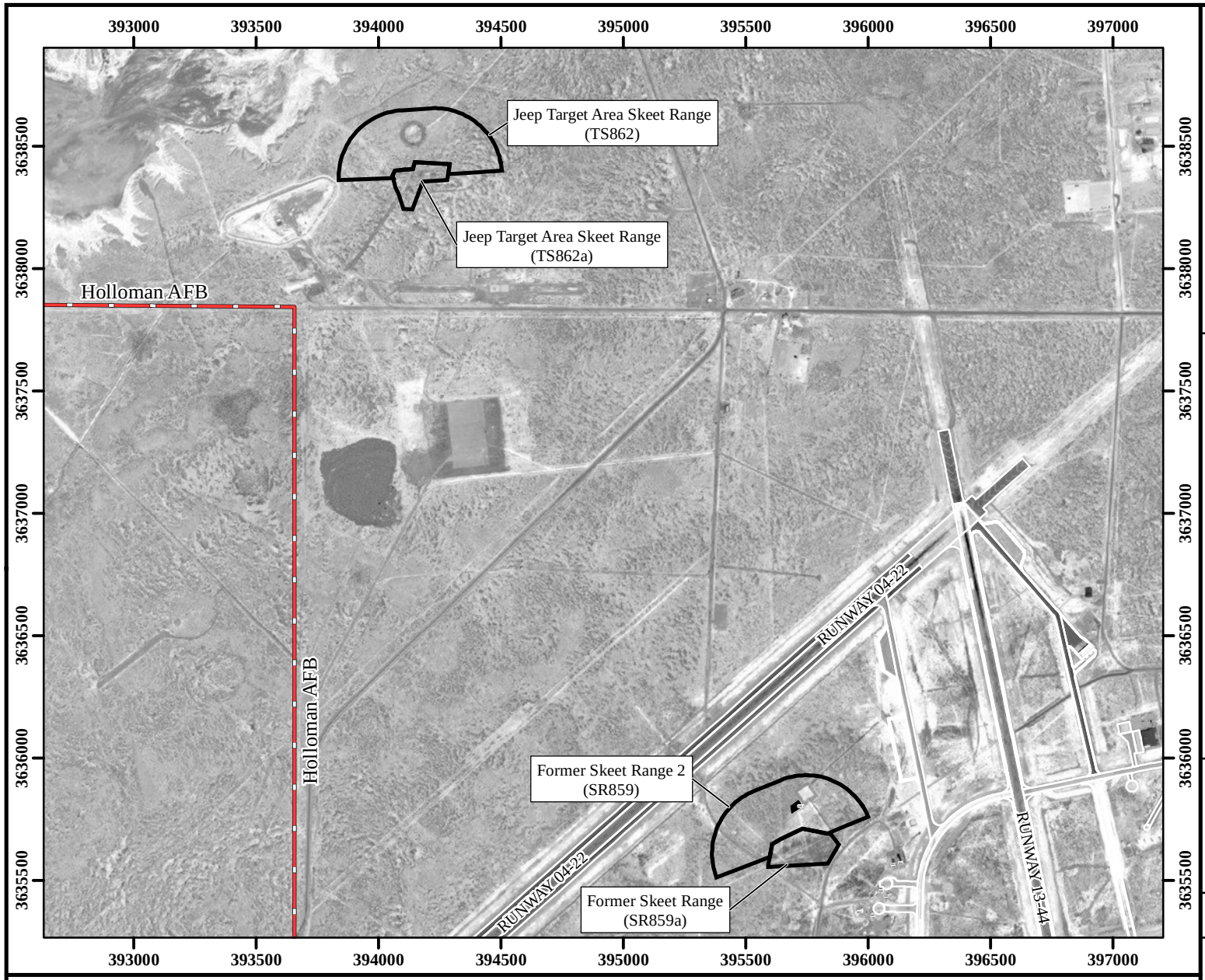
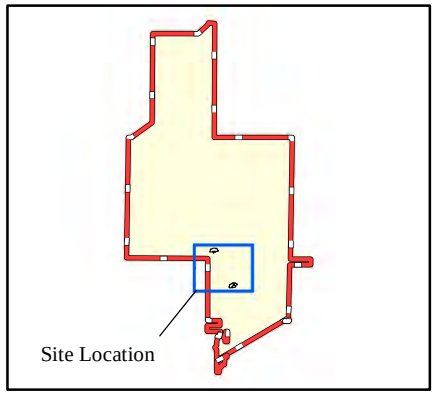




Legend

- Former Skeet Range
- Installation Boundary

Performance Based Remediation
New Mexico-Arizona
Holloman Air Force Base
Alamogordo, NM
AFCEC

FIGURE 1

RI Site Locations

FPM Remediations, Inc.

2015

NOTES:
This project is the result of digital analyses performed on a variety of databases provided and maintained by several public and private agencies. The accuracy of the information presented is limited to the collective accuracy of this map. However, it is intended for planning purposes only and should not be considered exact. A field inspection and locate is required. FPM Remediations Inc. makes no claims regarding the accuracy of the information depicted herein.
Revision Date: 12/14/2015

Coordinate System:
NAD 1983 UTM Zone 13N
Projection: Transverse Mercator
Datum: North American 1983
Units: Meter
Service Layer Credits: Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo, and the GIS User Community

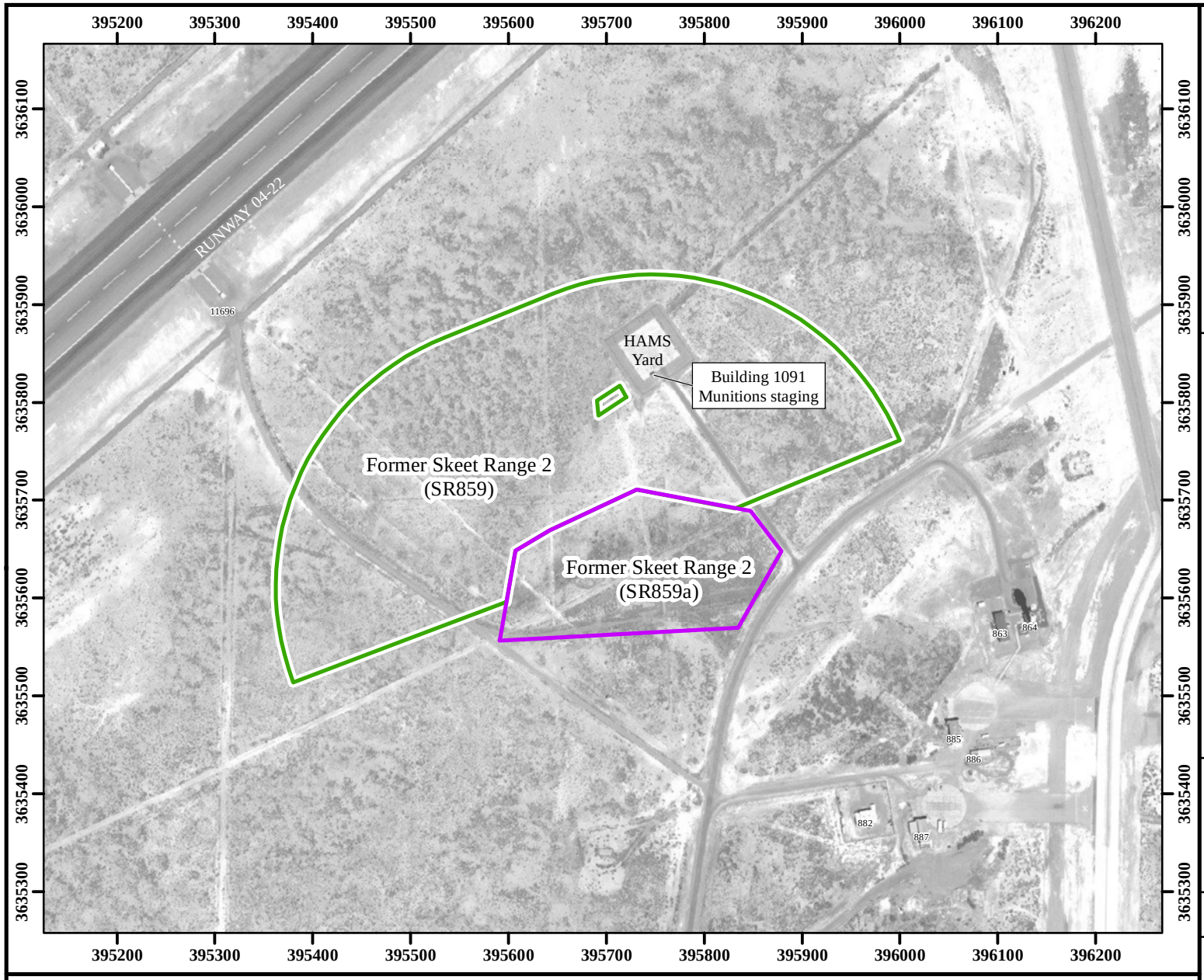
1 inch = 2,000 feet

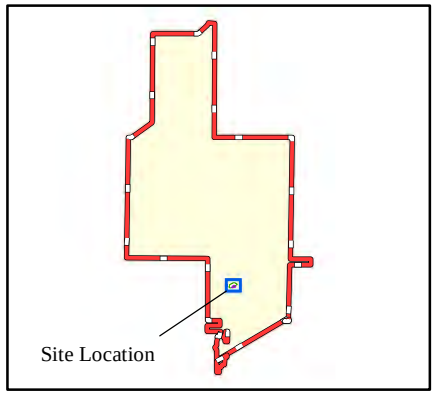
0 250 500 Meters

0 1,000 2,000 Feet

N W E S

Path: Y:\GIS_Projects\Holloman_AFB\Projects\RI_Rpt\SR859_TS862\Fig1_RI_SiteLocs.mxd





Legend

- SR859 MRS Boundary
- SR859a MRS Boundary

NOTES:
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Date Saved: 12/14/2015

Coordinate System:
NAD 1983 UTM Zone 13N
Projection: Transverse Mercator
Datum: North American 1983
Units: Meter
Service Layer Credits: Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo, and the GIS User Community

1 inch = 500 feet

0 50 100 Meters

0 250 500 Feet

N W E S

Performance Based Remediation
New Mexico-Arizona
Holloman Air Force Base
Alamogordo, NM
AFCEC

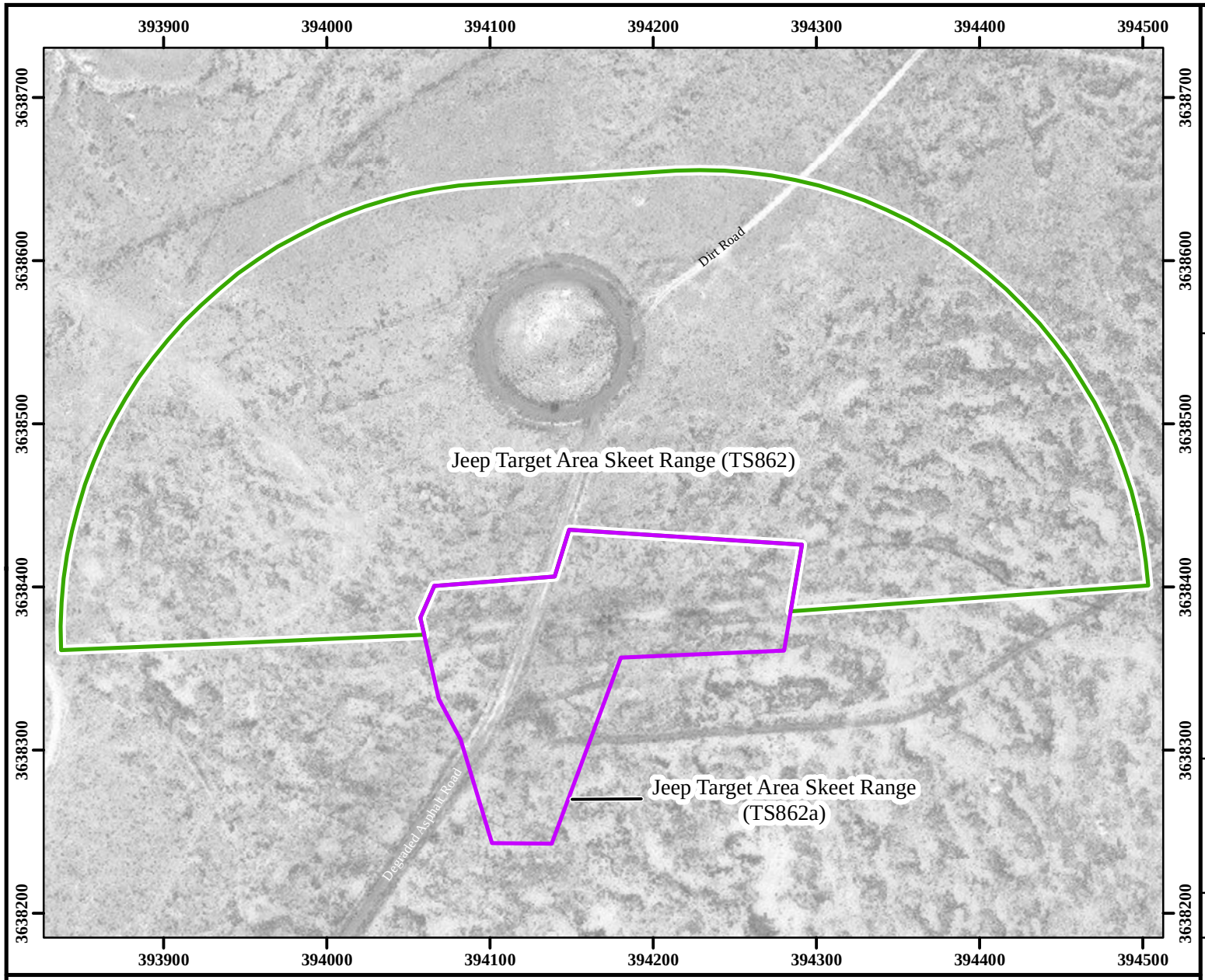
FIGURE 2

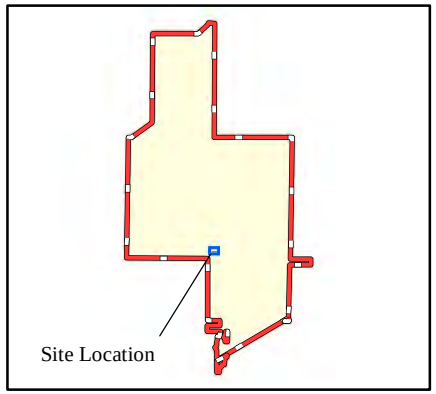
SR859a
Former Skeet Range 2
MRS Site Features

FPM Remediations, Inc.

2015

Path: Y:\GIS_Projects\Holloman_AFB\Projects\RI_Rpt\SR859_TS862\Fig2_Skeet_Range2.mxd





Legend

- TS862 MRS Boundary
- TS862a MRS Boundary

Performance Based Remediation
New Mexico-Arizona
Holloman Air Force Base
Alamogordo, NM
AFCEC

FIGURE 3

TS862a
Jeep Target Area Skeet Range
MRS Site Features

FPM Remediations, Inc.

2016

NOTES:
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Date Saved: 1/18/2016

Coordinate System:
NAD 1983 UTM Zone 13N
Projection: Transverse Mercator
Datum: North American 1983
Units: Meter
Service Layer Credits: Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo, and the GIS User Community

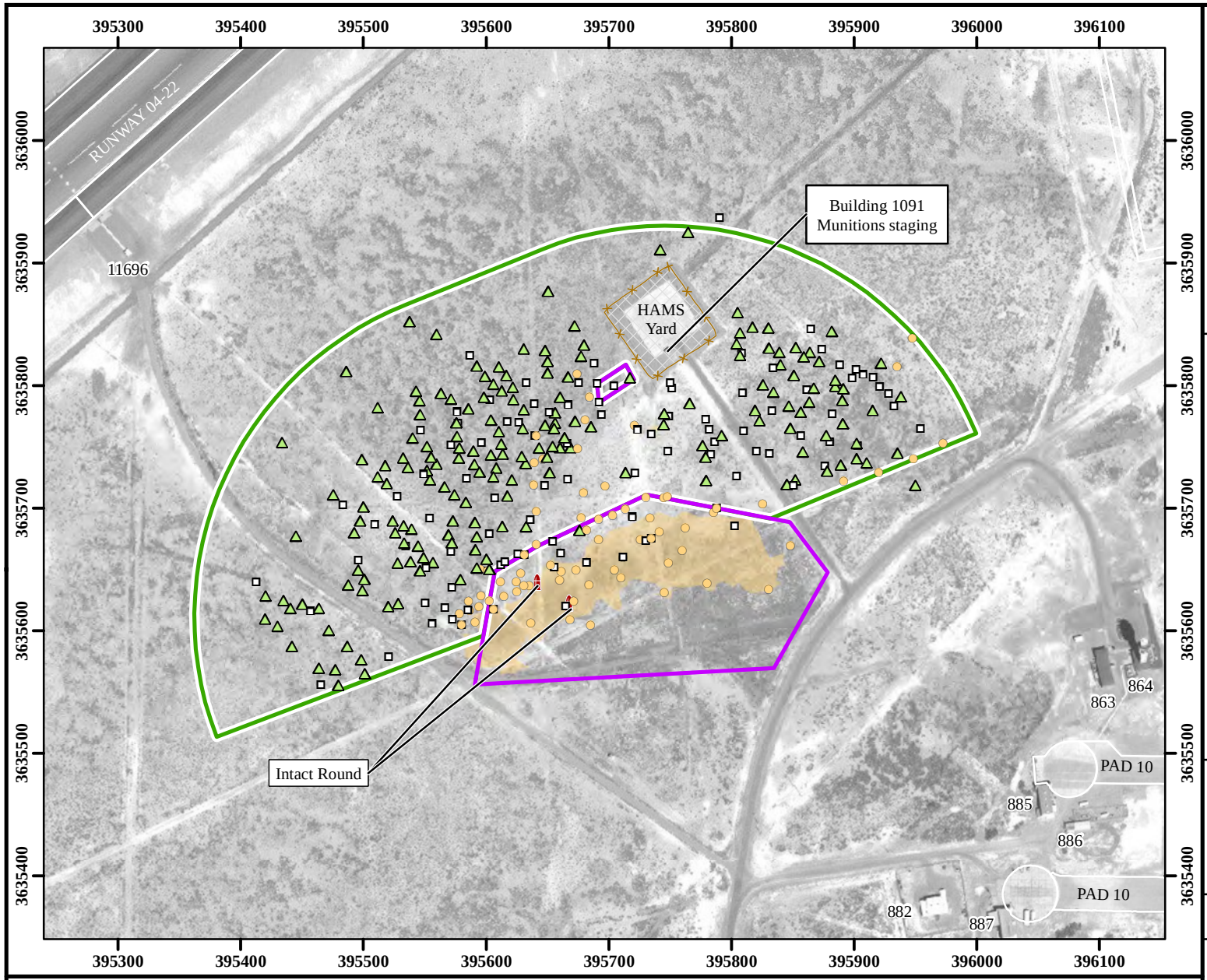
1 inch = 300 feet

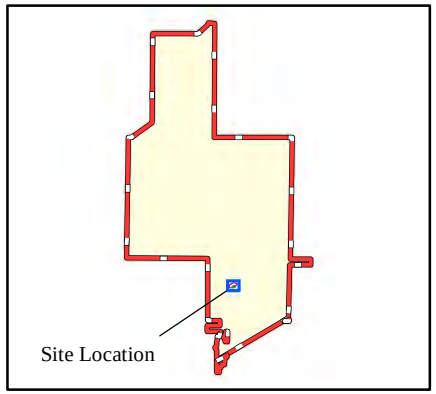
0 50 100 Meters

0 150 300 Feet

N W E S

Path: Y:\GIS_Projects\Holloman_AFB\Projects\RI_Rpt\SR859_TS862\Fig3_TS862a_Jeep_Target_Area.mxd





Legend

- Small Arms
- Clay Target Debris
- Bullet/Projectile
- Casing/ Blank/ Shotgun Pellet/ Shotgun Primer Cap/ Shell Wad
- Fence
- Unsurveyable
- SR859a MRS Boundary
- SR859 MRS Boundary
- Clay Target Debris

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Alamogordo, NM
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FIGURE 4

SR859
CSE Phase II
Visual Reconnaissance Results

FPM Remediations, Inc.

2016

NOTES:
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Date Saved: 1/18/2016

Coordinate System:
NAD 1983 UTM Zone 13N
Projection: Transverse Mercator
Datum: North American 1983
Units: Meter
Service Layer Credits: Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo, and the GIS User Community

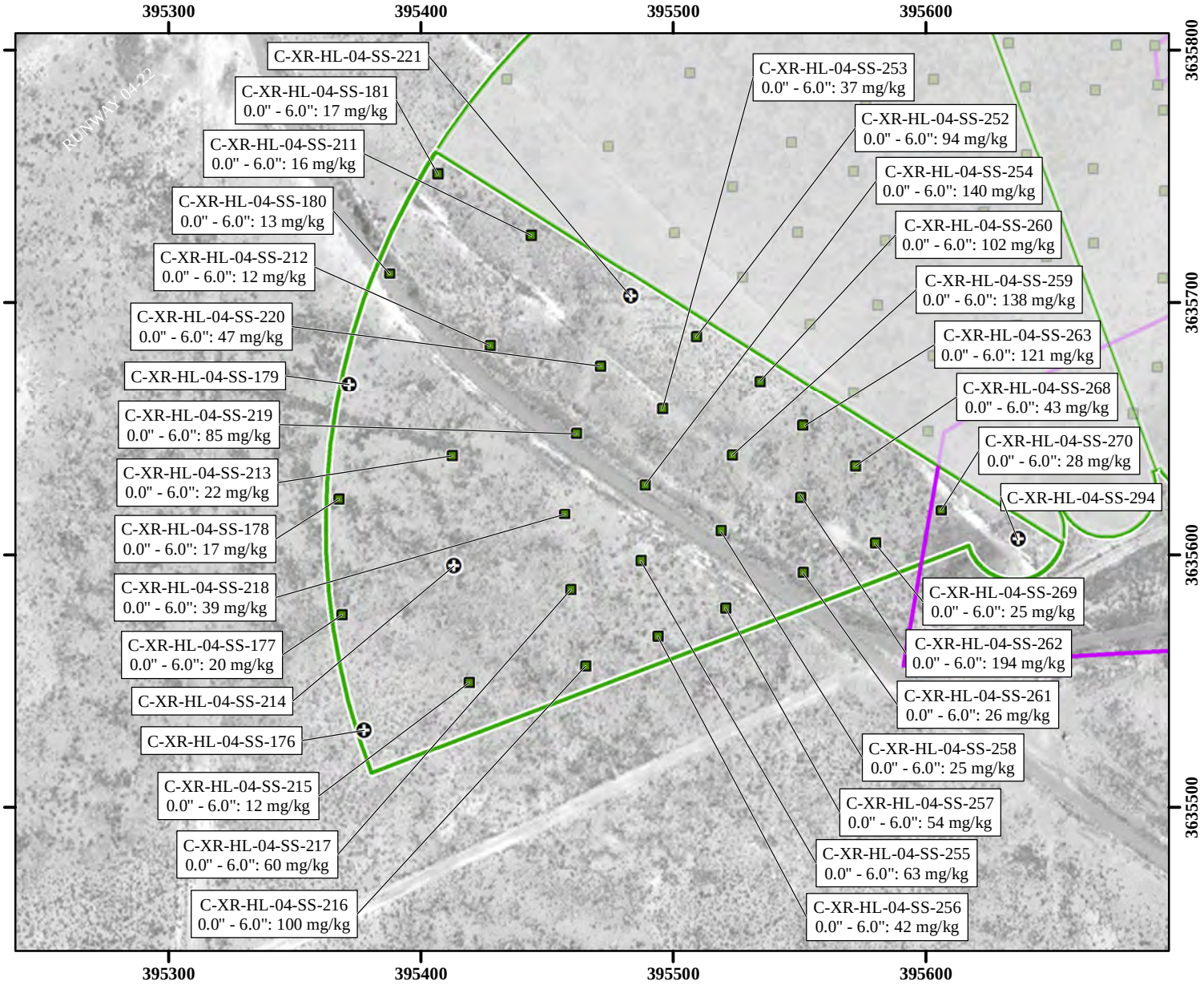
1 inch = 400 feet

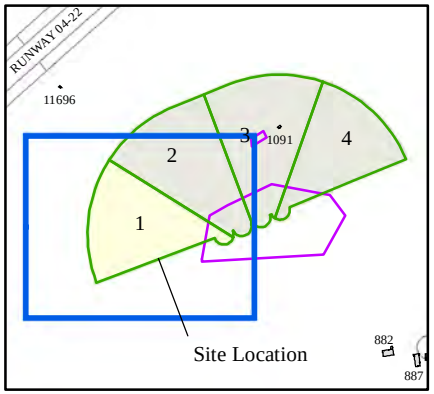
0 50 100 Meters

0 100 200 400 Feet

N W E S

Path: Y:\GIS_Projects\Holloman_AFB\Projects\RI_Rpt\SR859_TS862\Fig4_SR859VisRecon.mxd





Legend

- Lead Sample < LOC*
- Lead Sample < 400 mg/kg
- SR859a MRS Boundary
- Original SR859 MRA Boundary

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New Mexico-Arizona
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Alamogordo, NM
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FIGURE 5a

SR859
CSE Phase II XRF Screening Results
Group 1

FPM Remediations, Inc.

2015

NOTES:
*LOD - Limit of Detection
This project is the result of digital analyses performed on a variety of databases provided and maintained by several public and private agencies. The accuracy of the information presented is limited to the collective accuracy of this map. However, it is intended for planning purposes only and should not be considered exact. A field inspection and locate is required.
FPM Remediations Inc. makes no claims regarding the accuracy of the information depicted herein.
Revision Date: 12/14/2015

Coordinate System:
NAD 1983 UTM Zone 13N
Projection: Transverse Mercator
Datum: North American 1983
Units: Meter
Service Layer Credits: Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo, and the GIS User Community

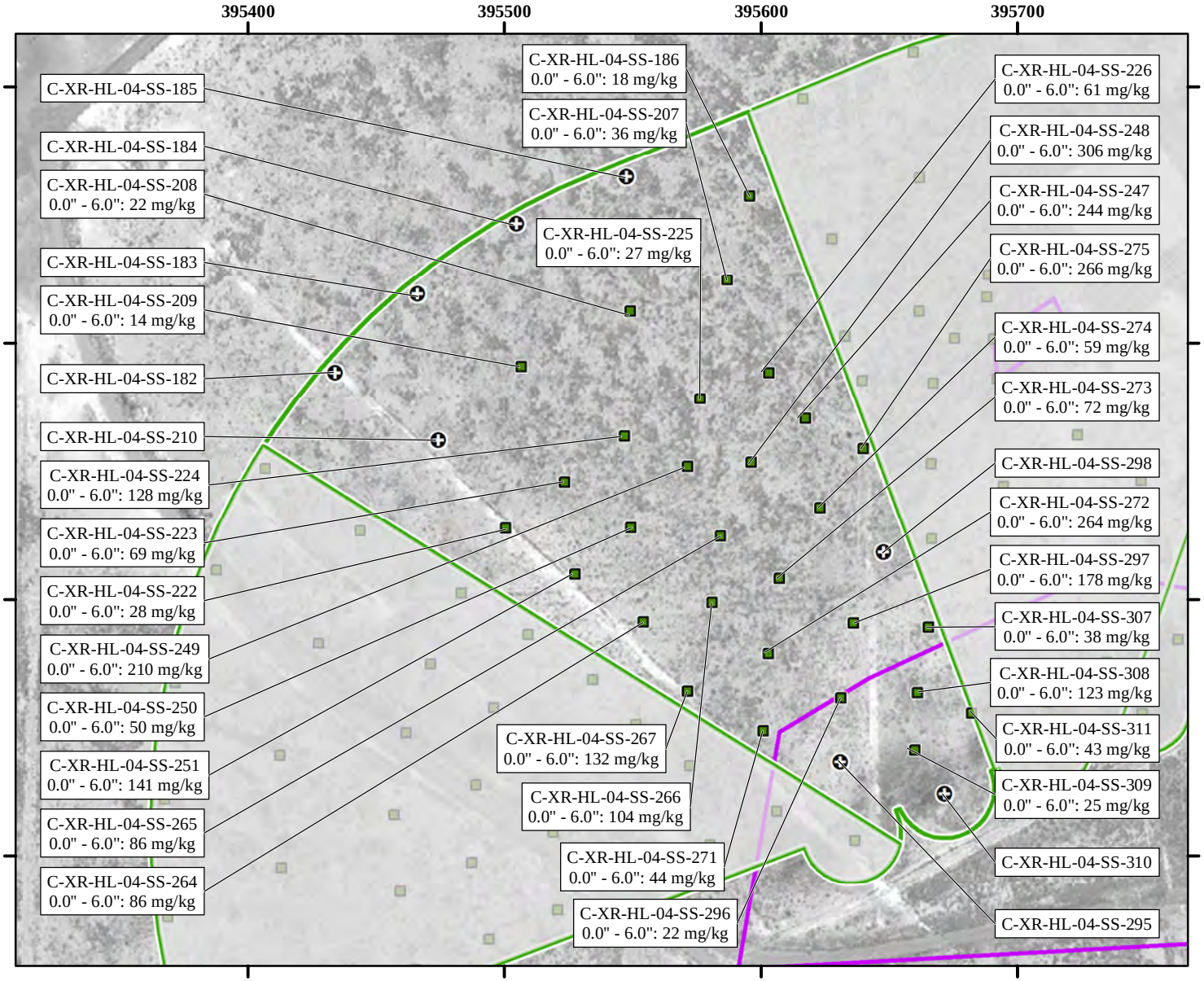
1 inch = 200 feet

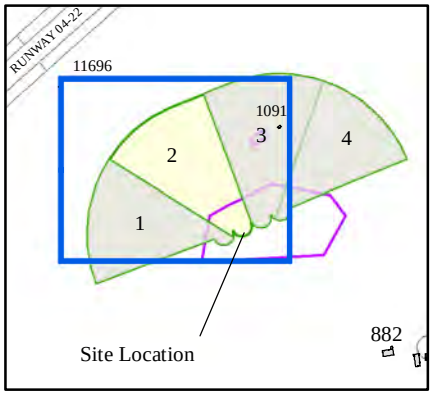
0 25 50 Meters

0 100 200 Feet

N W E S

Path: Y:\GIS_Projects\Holloman_AFB\Projects\RI_Rpt\SR859_TS862\Fig5a_LeadSampSR859_1.mxd





Legend

- Lead Sample < LOC*
- Lead Sample < 400 mg/kg
- Original SR859 MRA Boundary
- SR859a MRS Boundary

Performance Based Remediation
New Mexico-Arizona
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Alamogordo, NM
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FIGURE 5b

SR859
CSE Phase II XRF Screening Results
Group 2

FPM Remediations, Inc.

2015

NOTES:
LOD - Limit of Detection
This project is the result of digital analyses performed on a variety of databases provided and maintained by several public and private agencies. The accuracy of the information presented is limited to the collective accuracy of this map. However, it is intended for planning purposes only and should not be considered exact. A field inspection and locate is required.
FPM Remediations Inc. makes no claims regarding the accuracy of the information depicted herein.
Revision Date: 12/7/2015

Coordinate System:
NAD 1983 UTM Zone 13N
Projection: Transverse Mercator
Datum: North American 1983
Units: Meter
Service Layer Credits: Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo, and the GIS User Community

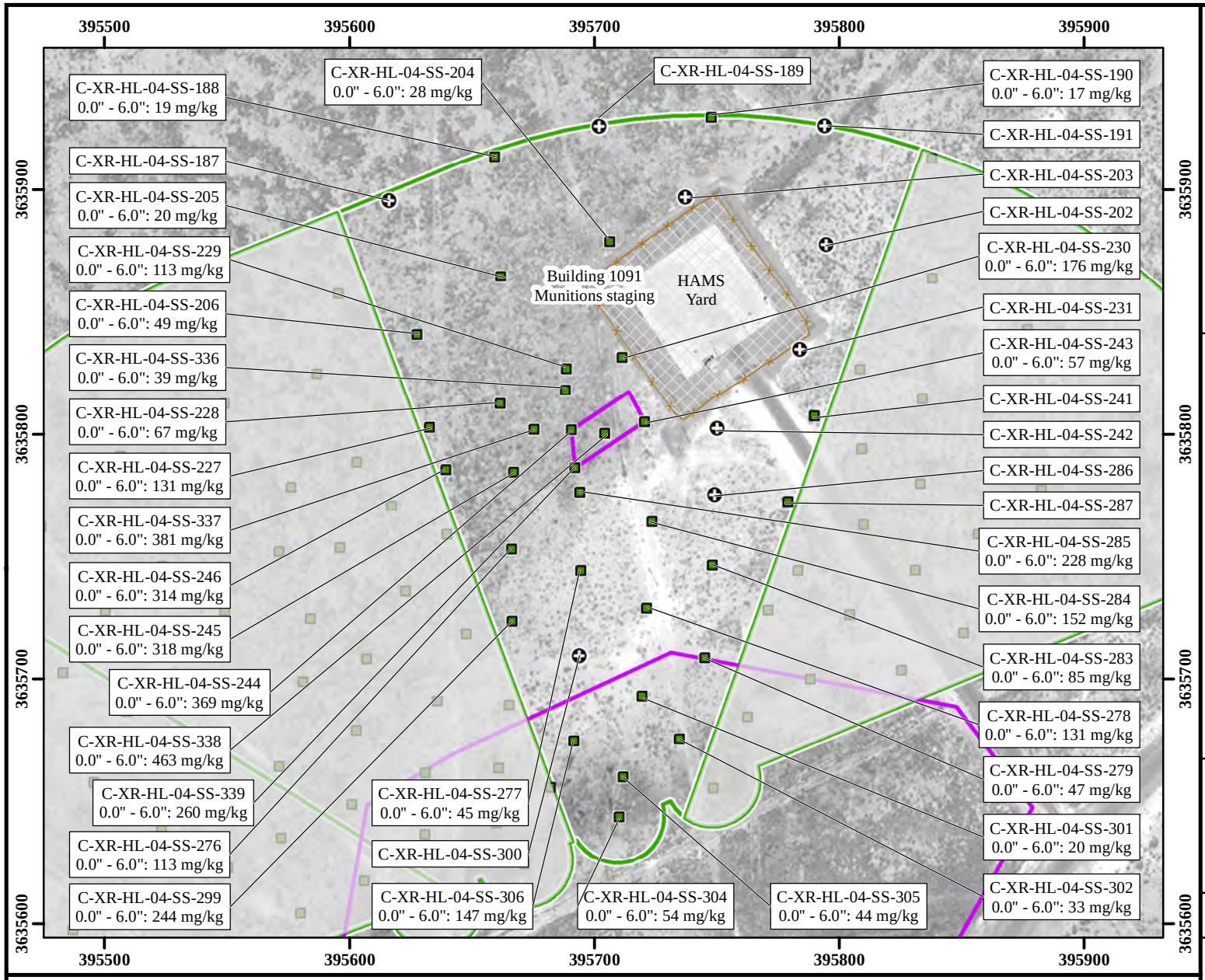
1 inch = 200 feet

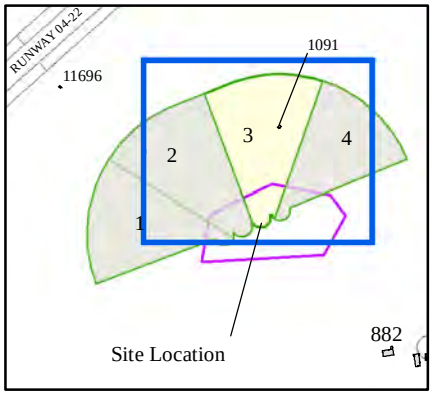
0 25 50 Meters

0 100 200 Feet

N W E S

Path: Y:\GIS_Projects\Holloman_AFB\Projects\RI_Rpt\SR859_TS862\Fig5b_LeadSampSR859_2.mxd





Legend

- Lead Sample < LOC*
- Lead Sample < 400 mg/kg
- Fence
- SR859a MRS Boundary
- Original SR859 MRA Boundary

Performance Based Remediation
New Mexico-Arizona
Holloman Air Force Base
Alamogordo, NM
AFCEC

FIGURE 5c

SR859
CSE Phase II XRF Screening Results
Group 3

FPM Remediations, Inc.

2015

NOTES:
*LOD Limit of Detection
This project is the result of digital analyses performed on a variety of databases provided and maintained by several public and private agencies. The accuracy of the information presented is limited to the collective accuracy of this map. However, it is intended for planning purposes only and should not be considered exact. A field inspection and locate is required. FPM Remediations Inc. makes no claims regarding the accuracy of the information depicted herein.
Date Saved: 12/14/2015

Coordinate System:
NAD 1983 UTM Zone 13N
Projection: Transverse Mercator
Datum: North American 1983
Units: Meter
Service Layer Credits: Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo, and the GIS User Community

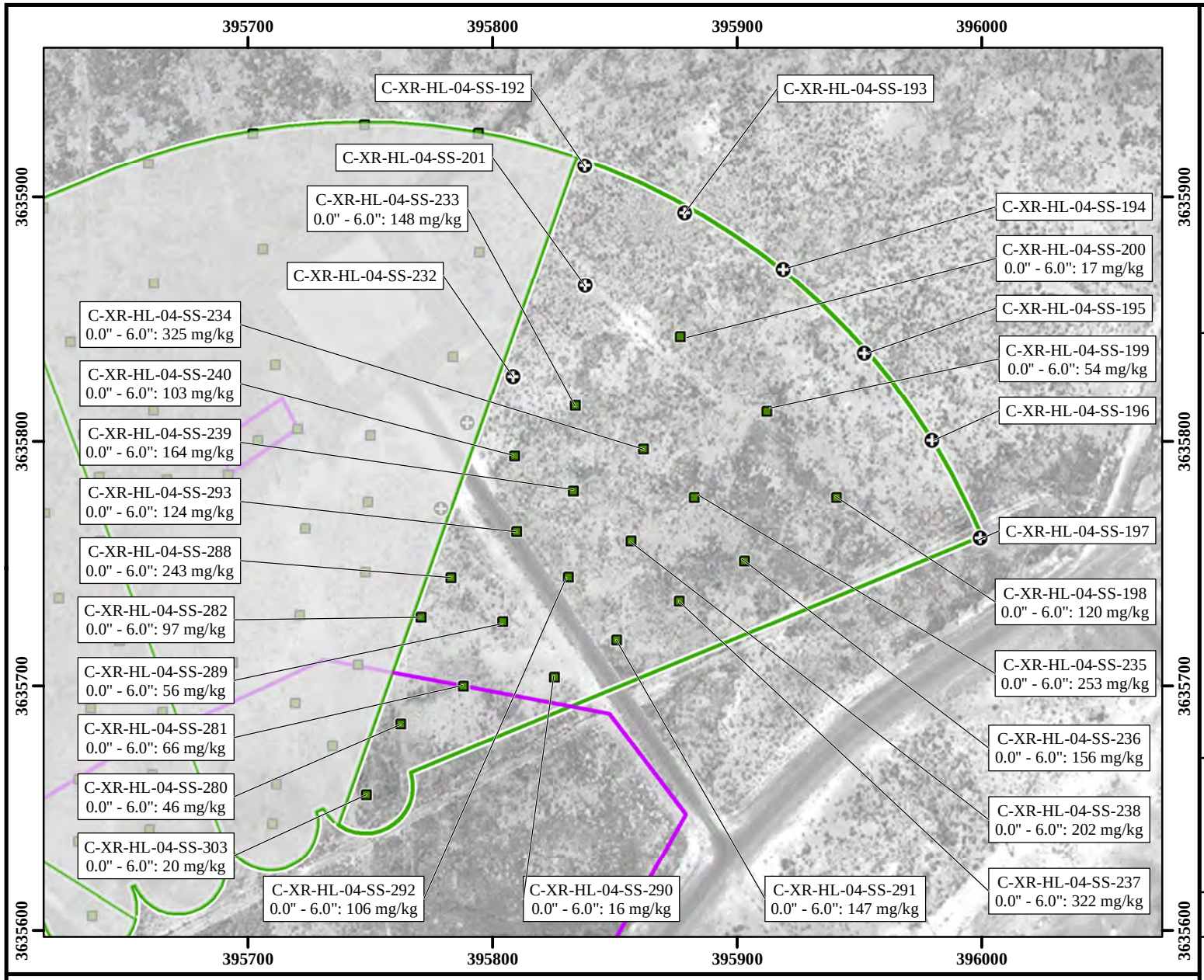
1 inch = 200 feet

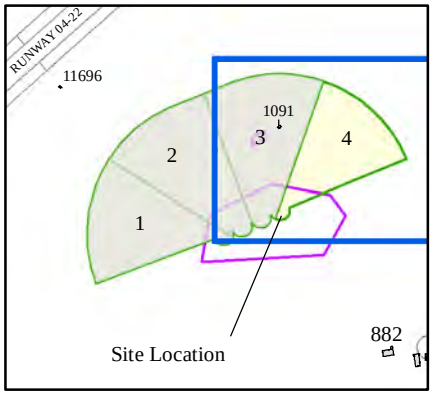
0 25 50 Meters

0 100 200 Feet

N W E S

Path: Y:\GIS_Projects\Holloman_AFB\Projects\RI_Rpt\SR859_TS862\Fig5c_LeadSampSR859_3.mxd





Legend

- Lead Sample < LOC*
- Lead Sample < 400 mg/kg
- SR859a MRS Boundary
- Original SR859 MRA Boundary

Performance Based Remediation
New Mexico-Arizona
Holloman Air Force Base
Alamogordo, NM
AFCEC

FIGURE 5d

SR859
CSE Phase II XRF Screening Results
Group 4

FPM Remediations, Inc.

2015

NOTES:
LOD - Limit of Detection
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FPM Remediations Inc. makes no claims regarding the accuracy of the information depicted herein.
Revision Date: 12/14/2015

Coordinate System:
NAD 1983 UTM Zone 13N
Projection: Transverse Mercator
Datum: North American 1983
Units: Meter
Service Layer Credits: Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo, and the GIS User Community

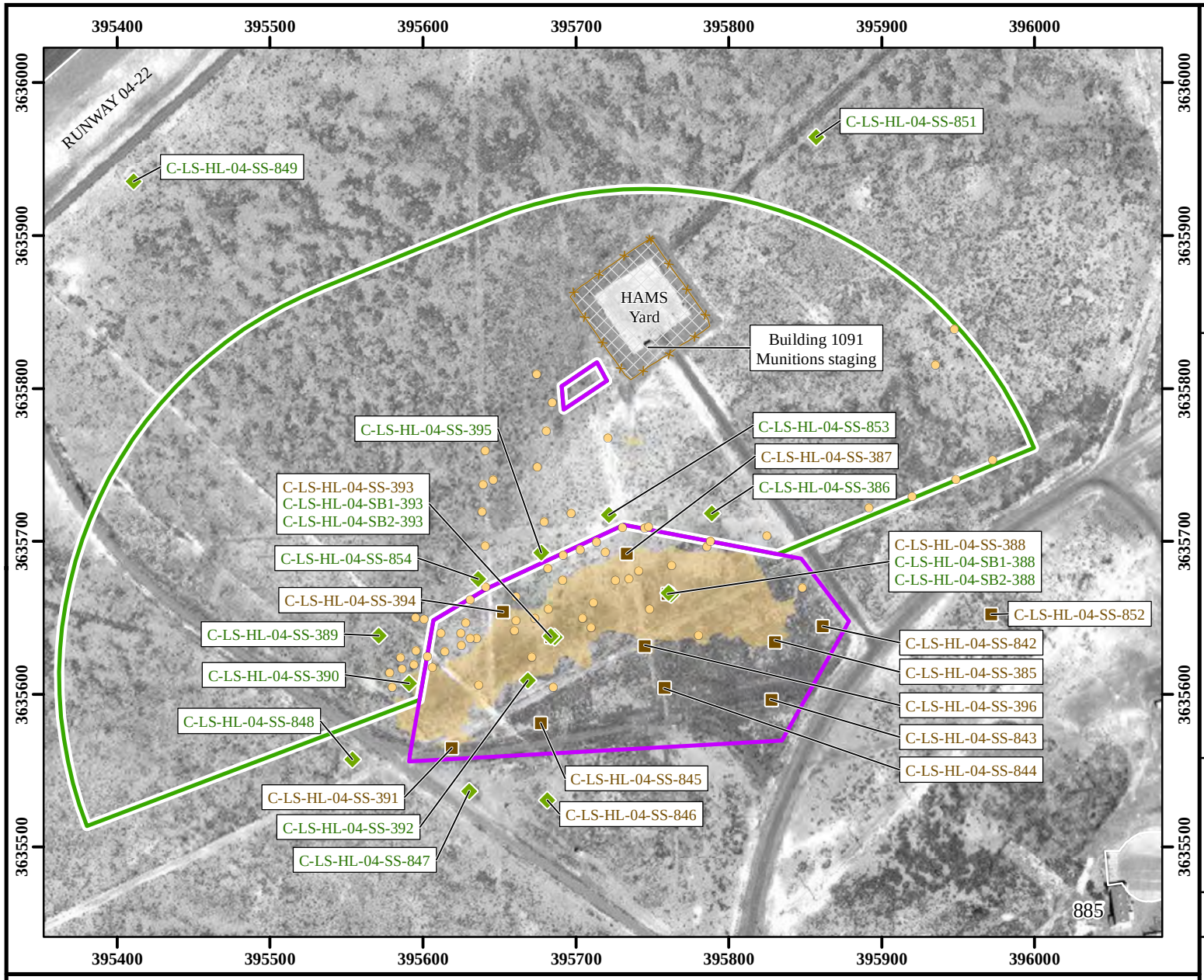
1 inch = 200 feet

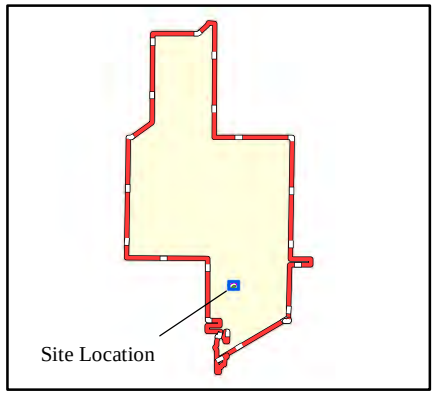
0 25 50 Meters

0 100 200 Feet

N W E S

Path: Y:\GIS_Projects\Holloman_AFB\Projects\RI_Rpt\SR859_TS862\Fig5d_LeadSampSR859_4.mxd





Legend

- PAH Sample Location Below HHSL*
- PAH Sample Location Above HHSL*
- Clay Target Debris
- Fence
- Unsurveyable
- Clay Target Debris
- SR859 MRS Boundary
- SR859a MRS Boundary

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Alamogordo, NM
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FIGURE 6

SR859
CSE Phase II
PAH Sampling Locations

FPM Remediations, Inc.

2015

NOTES:
*HHSL - Human Health Screening Level
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Date Saved: 12/14/2015

Coordinate System:
NAD 1983 UTM Zone 13N
Projection: Transverse Mercator
Datum: North American 1983
Units: Meter
Service Layer Credits: Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo, and the GIS User Community

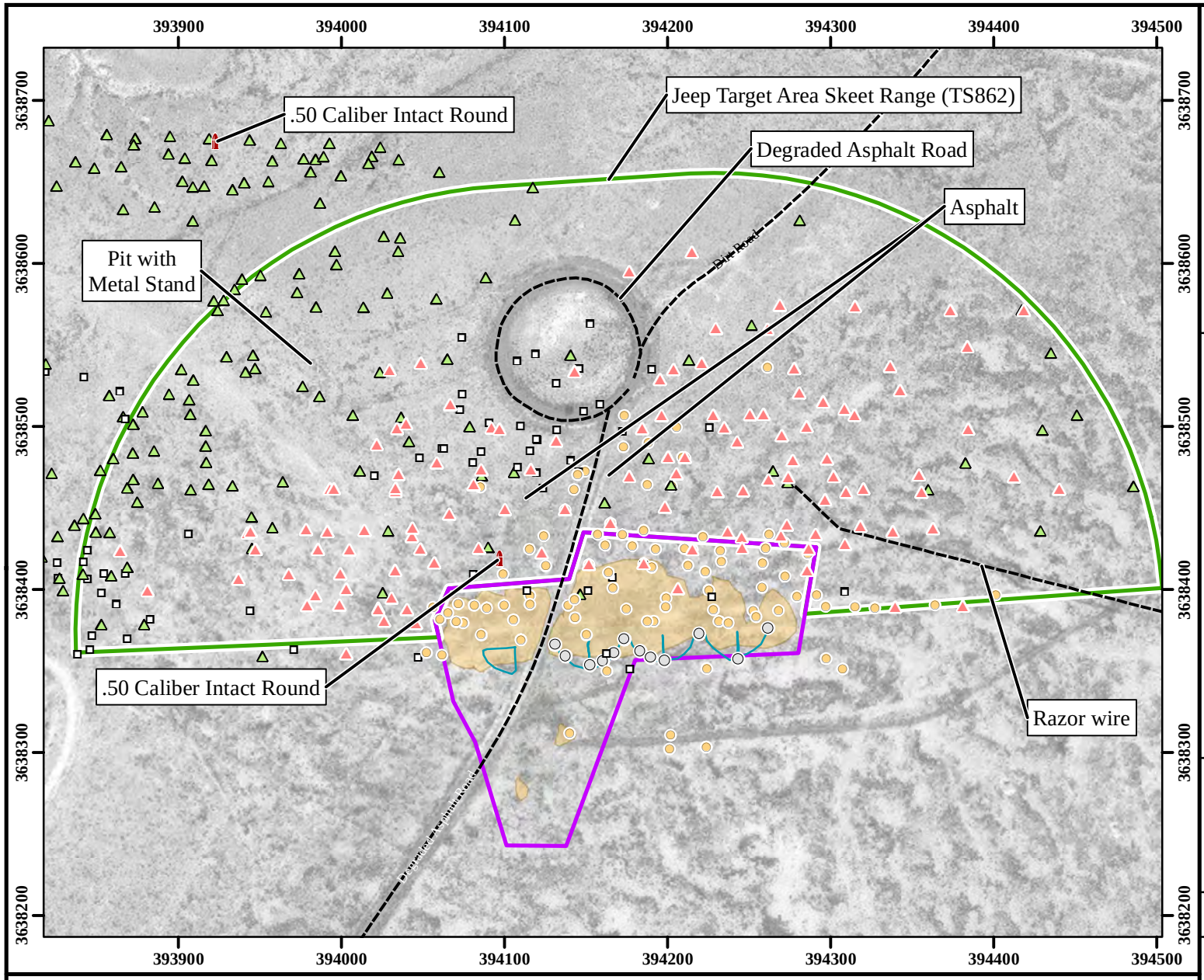
1 inch = 320 feet

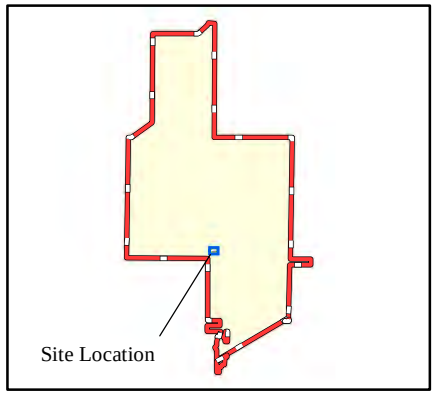
0 50 100 Meters

0 150 300 Feet

N W E S

Path: Y:\GIS_Projects\Holloman_AFB\Projects\RI_Rpt\SR859_TS862\Fig6_PAH_SR859.mxd





Legend

- Lead Shot
- Ammunition, Small Arms
- Concrete Firing Pad
- Clay Target Debris
- Bullet/Projectile
- Casing/ Blank/ Shotgun Pellet/ Shotgun Primer Cap/ Shell Wad
- Evidence of Small Arms
- Clay Target Debris
- TS862a MRS Boundary
- TS862 MRS Boundary

Performance Based Remediation
New Mexico-Arizona
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Alamogordo, NM
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FIGURE 7

TS862
CSE Phase II
Visual Reconnaissance Results

FPM Remediations, Inc.

2016

NOTES:
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Date Saved: 1/18/2016

Coordinate System:
NAD 1983 UTM Zone 13N
Projection: Transverse Mercator
Datum: North American 1983
Units: Meter
Service Layer Credits: Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo, and the GIS User Community

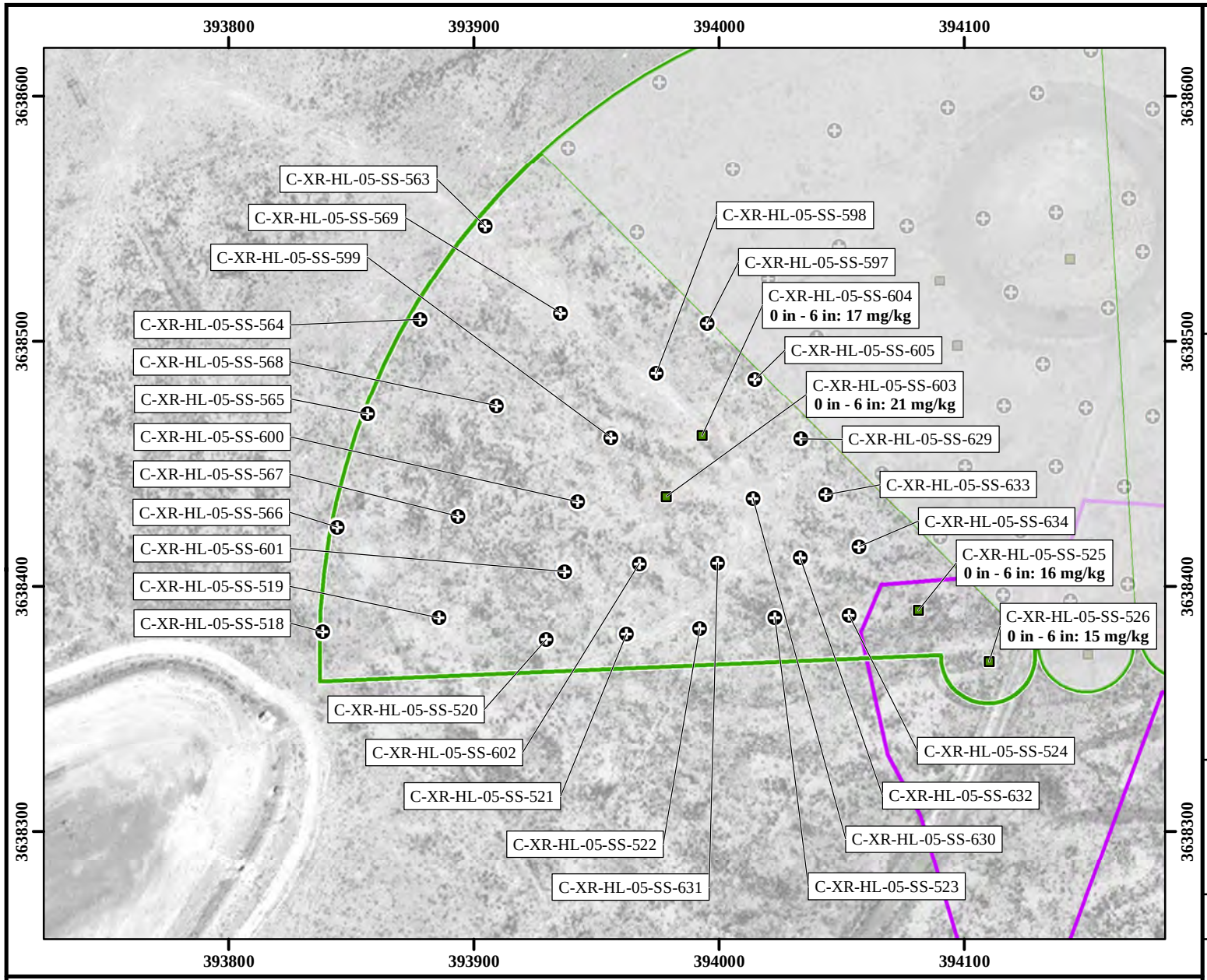
1 inch = 300 feet

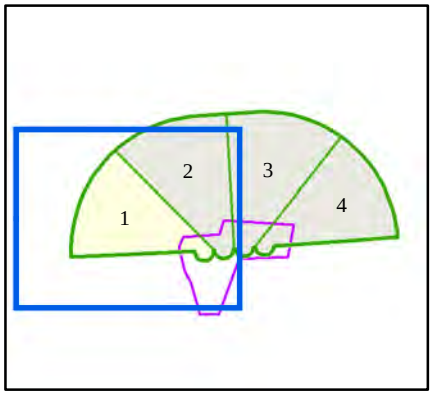
0 50 100 Meters

0 150 300 Feet

N W E S

Path: Y:\GIS_Projects\Holloman_AFB\Projects\RI_Rpt\SR859_TS862\Fig7_SR862_VisualSurveyResults.mxd





Legend

- Pb Sample < LOD*
- Pb Sample < 400 mg/kg
- TS862a MRS Boundary
- Original TS862 MRA Boundary

Performance Based Remediation
New Mexico-Arizona
Holloman Air Force Base
Alamogordo, NM
AFCEC

FIGURE 8a

TS862 CSE Phase II XRF
Screening Results
Group 1

FPM Remediations, Inc.

2015

NOTES:
*LOD - Limit of Detection
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Date Saved: 12/14/2015

Coordinate System:
NAD 1983 UTM Zone 13N
Projection: Transverse Mercator
Datum: North American 1983
Units: Meter
Service Layer Credits: Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo, and the GIS User Community

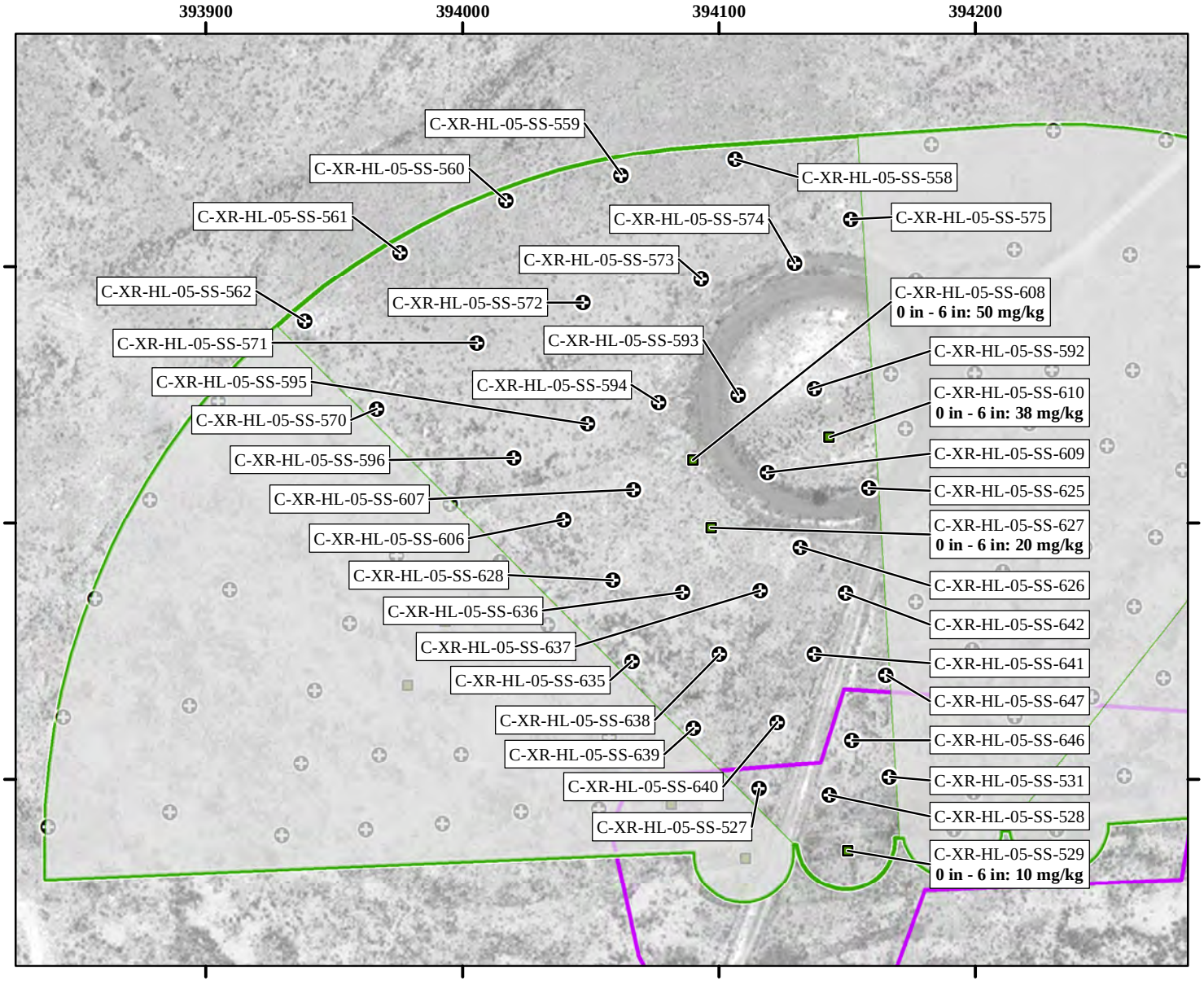
1 inch = 200 feet

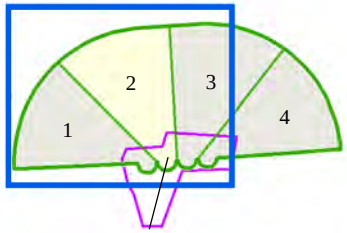
0 25 50 Meters

0 100 200 Feet

N W E S

Path: Y:\GIS_Projects\Holloman_AFB\Projects\RI_Rpt\SR859_TS862\Fig8a_LeadSampTS862_1.mxd





Legend

- Pb Sample < LOD*
- Pb Sample < 400 mg/kg
- TS862a MRS Boundary
- Original TS862 MRA Boundary

Performance Based Remediation
New Mexico-Arizona
Holloman Air Force Base
Alamogordo, NM
AFCEC

FIGURE 8b

TS862 CSE Phase II XRF
Screening Results
Group 2

FPM Remediations, Inc.

2015

NOTES:
*LOD - Limit of Detection
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Date Saved: 12/14/2015

Coordinate System:
NAD 1983 UTM Zone 13N
Projection: Transverse Mercator
Datum: North American 1983
Units: Meter
Service Layer Credits: Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo, and the GIS User Community

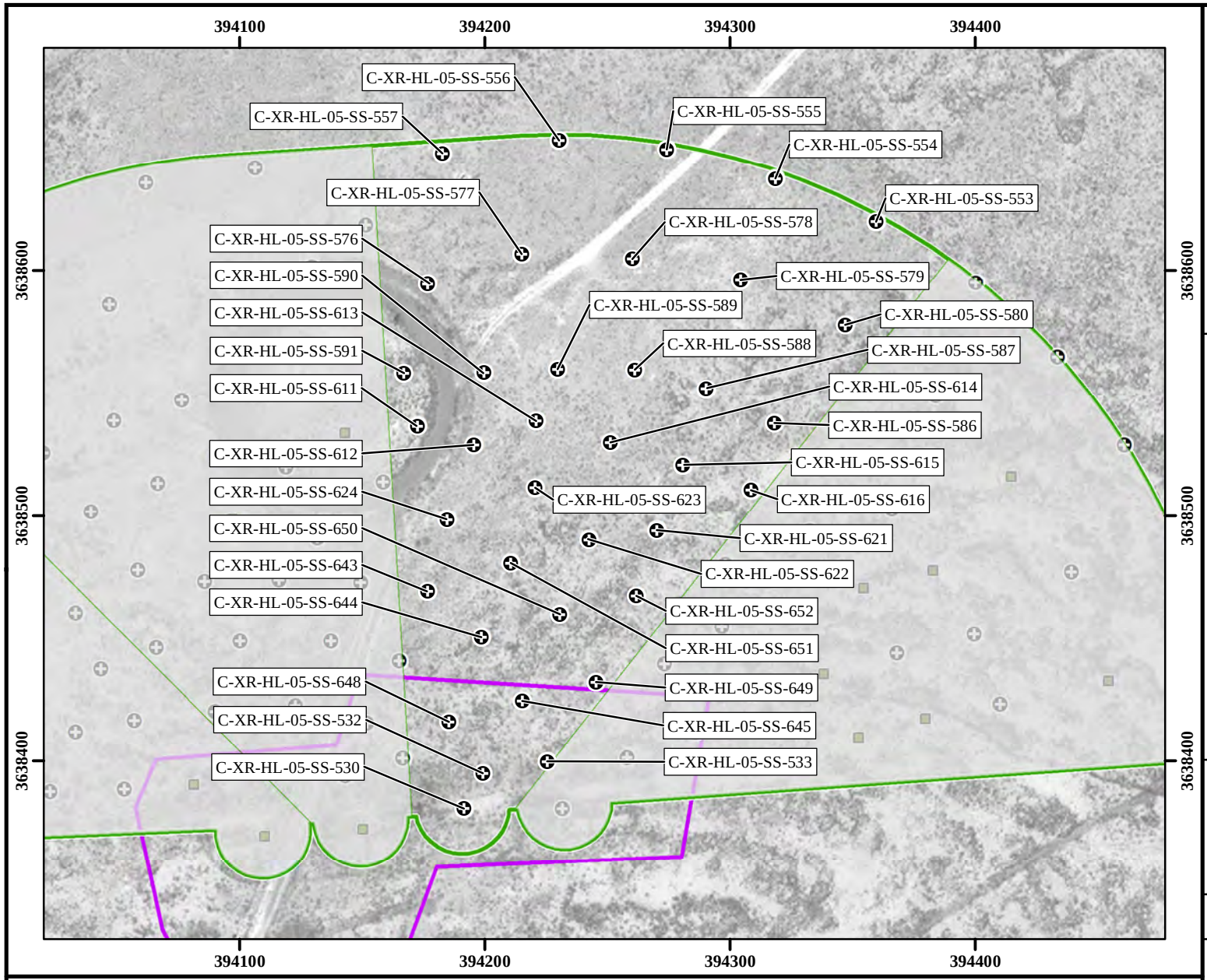
1 inch = 200 feet

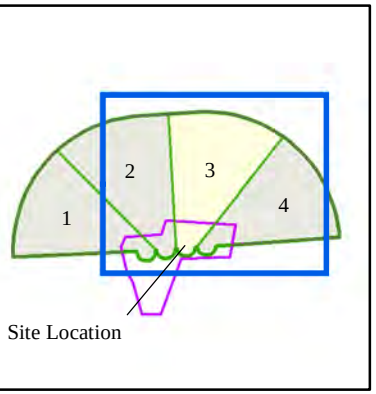
0 25 50 Meters

0 100 200 Feet

N W E S

Path: Y:\GIS_Projects\Holloman_AFB\Projects\RI_Rpt\SR859_TS862\Fig8b_LeadSampTS862_2.mxd





Legend

- Pb Sample < LOD*
- Pb Sample < 400 mg/kg
- TS862a MRS Boundary
- Original TS862 MRA Boundary

Performance Based Remediation
New Mexico-Arizona
Holloman Air Force Base
Alamogordo, NM
AFCEC

FIGURE 8c

TS862 CSE Phase II XRF
Screening Results
Group 3

FPM Remediations, Inc.

2015

NOTES:
*LOD - Limit of Detection
This project is the result of digital analyses performed on a variety of databases provided and maintained by several public and private agencies. The accuracy of the information presented is limited to the collective accuracy of this map. However, it is intended for planning purposes only and should not be considered exact. A field inspection and locate is required. FPM Remediations Inc. makes no claims regarding the accuracy of the information depicted herein.
Date Saved: 12/8/2015

Coordinate System:
NAD 1983 UTM Zone 13N
Projection: Transverse Mercator
Datum: North American 1983
Units: Meter
Service Layer Credits: Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo, and the GIS User Community

1 inch = 200 feet

0 25 50 Meters

0 100 200 Feet

N W E S

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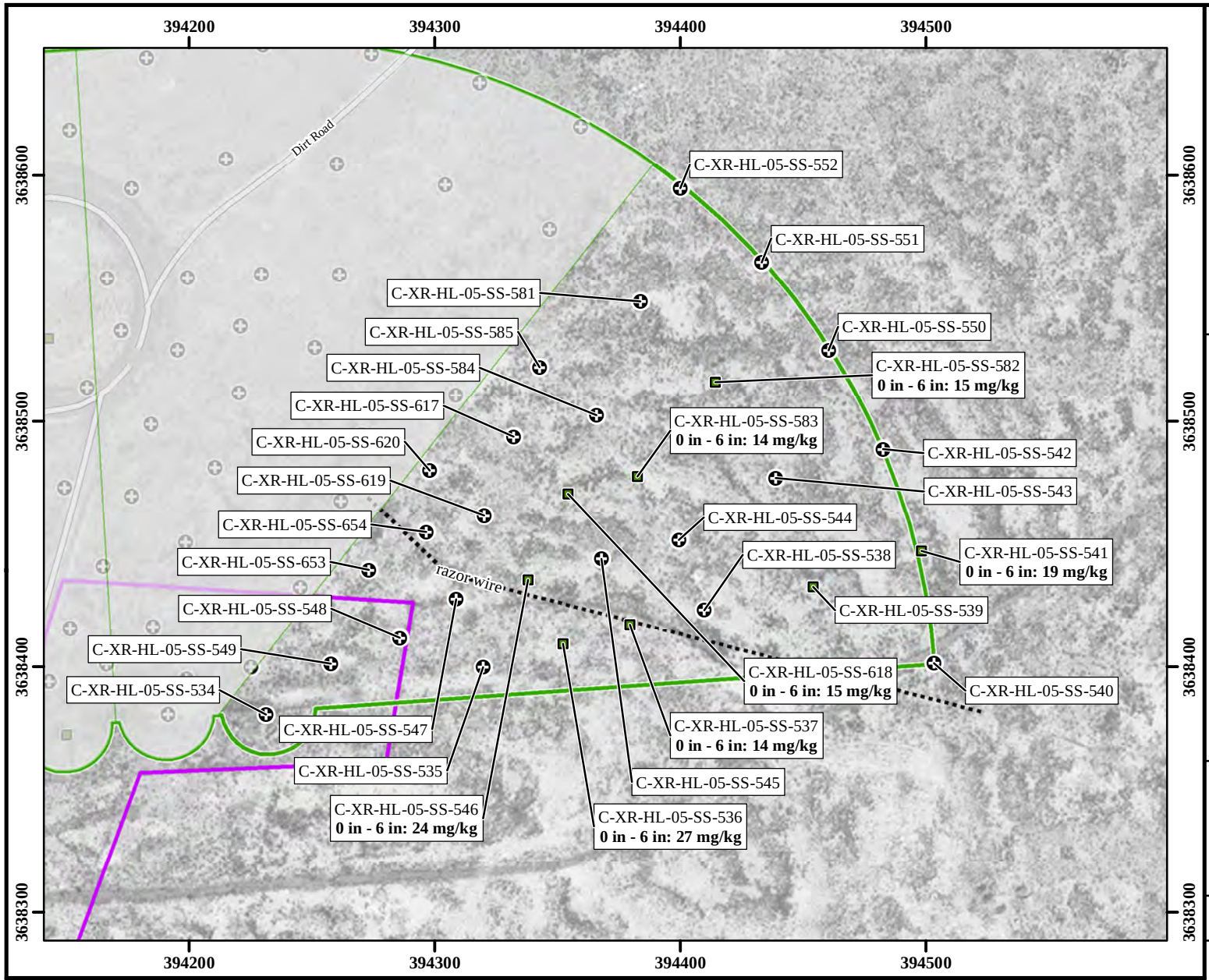

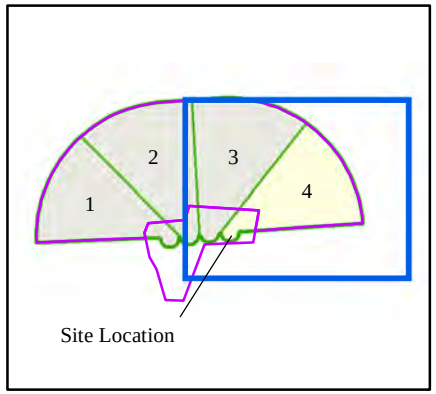

Legend

- Pb Sample < LOD*
- Pb Sample < 400 mg/kg
- TS862a MRS Boundary
- Original TS862 MRA Boundary

NOTES:
*LOD - Limit of Detection
This project is the result of digital analyses performed on a variety of databases provided and maintained by several public and private agencies. The accuracy of the information presented is limited to the collective accuracy of this map. However, it is intended for planning purposes only and should not be considered exact. A field inspection and locate is required. FPM Remediations Inc. makes no claims regarding the accuracy of the information depicted herein.
Date Saved: 12/14/2015

Coordinate System:
NAD 1983 UTM Zone 13N
Projection: Transverse Mercator
Datum: North American 1983
Units: Meter
Service Layer Credits: Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo, and the GIS User Community

1 inch = 200 feet

0 25 50 Meters

0 100 200 Feet

N W E S

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New Mexico-Arizona
Holloman Air Force Base
Alamogordo, NM
AFCEC

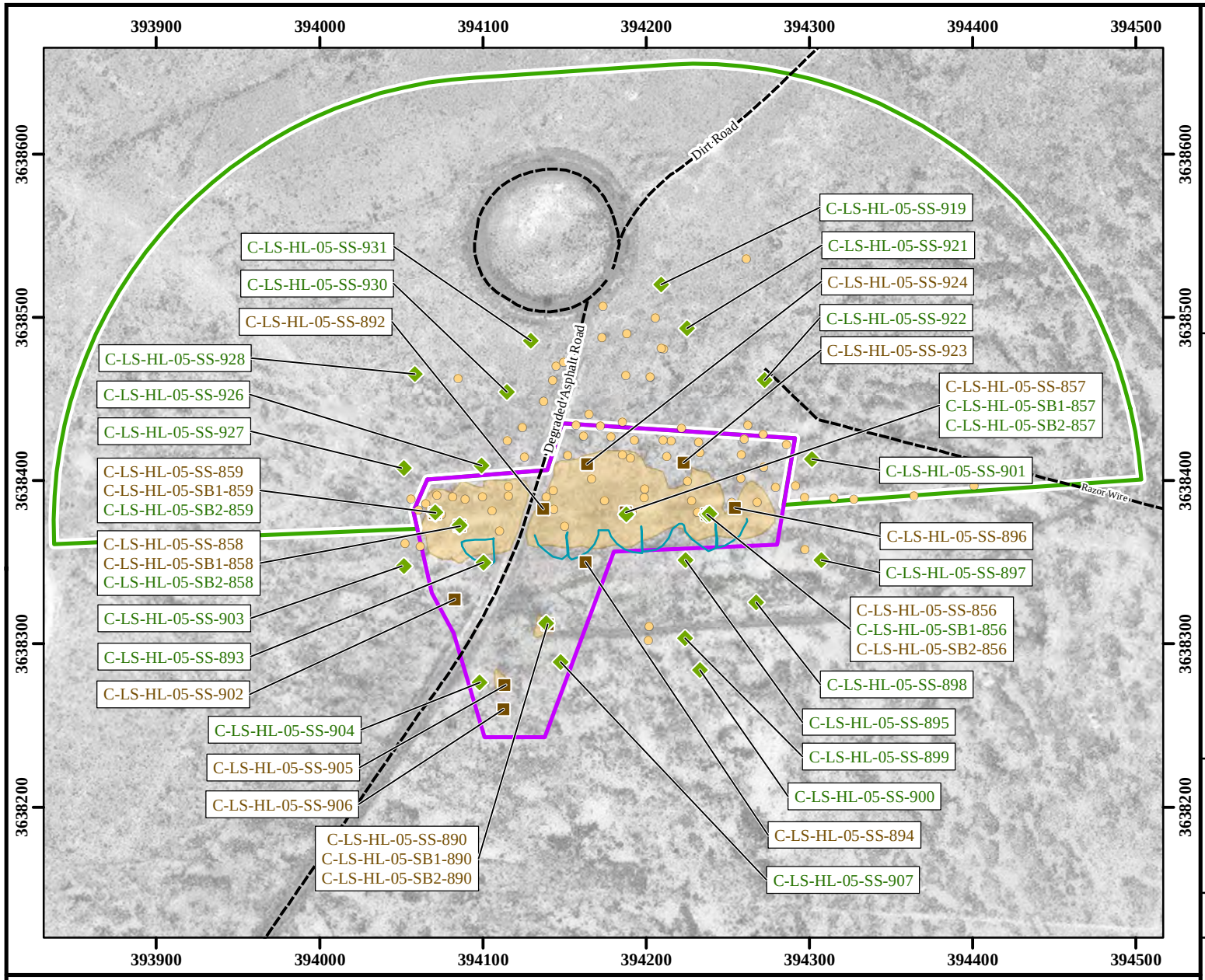
FIGURE 8d

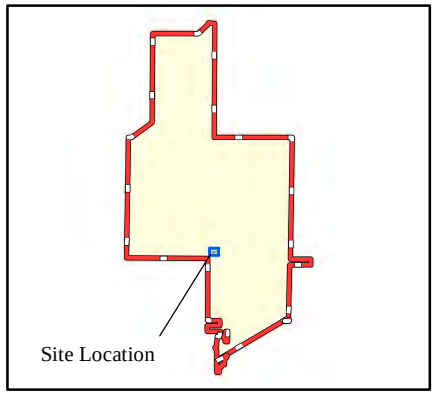
TS862 CSE Phase II XRF
Screening Results
Group 4

FPM Remediations, Inc.

2015

Path: Y:\GIS_Projects\Holloman_AFB\Projects\RI_Rpt\SR859_TS862\Fig8d_LeadSampTS862_4.mxd





Legend

- PAH Sample Location Below HHSL*
- PAH Sample Location Above HHSL* (Bold)
- Clay Target Debris
- Evidence of Small Arms Activity
- Clay Target Debris
- TS862a MRS Boundary
- TS862 MRS Boundary

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Holloman Air Force Base
Alamogordo, NM
AFCEC

FIGURE 9

TS862
CSE Phase II
PAH Sampling Locations

FPM Remediations, Inc.

2015

NOTES:
This project is the result of digital analyses performed on a variety of databases provided and maintained by several public and private agencies. The accuracy of the information presented is limited to the collective accuracy of this map. However, it is intended for planning purposes only and should not be considered exact. A field inspection and locate is required. FPM Remediations Inc. makes no claims regarding the accuracy of the information depicted herein.
Date Saved: 12/14/2015

Coordinate System:
NAD 1983 UTM Zone 13N
Projection: Transverse Mercator
Datum: North American 1983
Units: Meter
Service Layer Credits: Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo, and the GIS User Community

1 inch = 300 feet

0 50 100 Meters

0 150 300 Feet

N W E S

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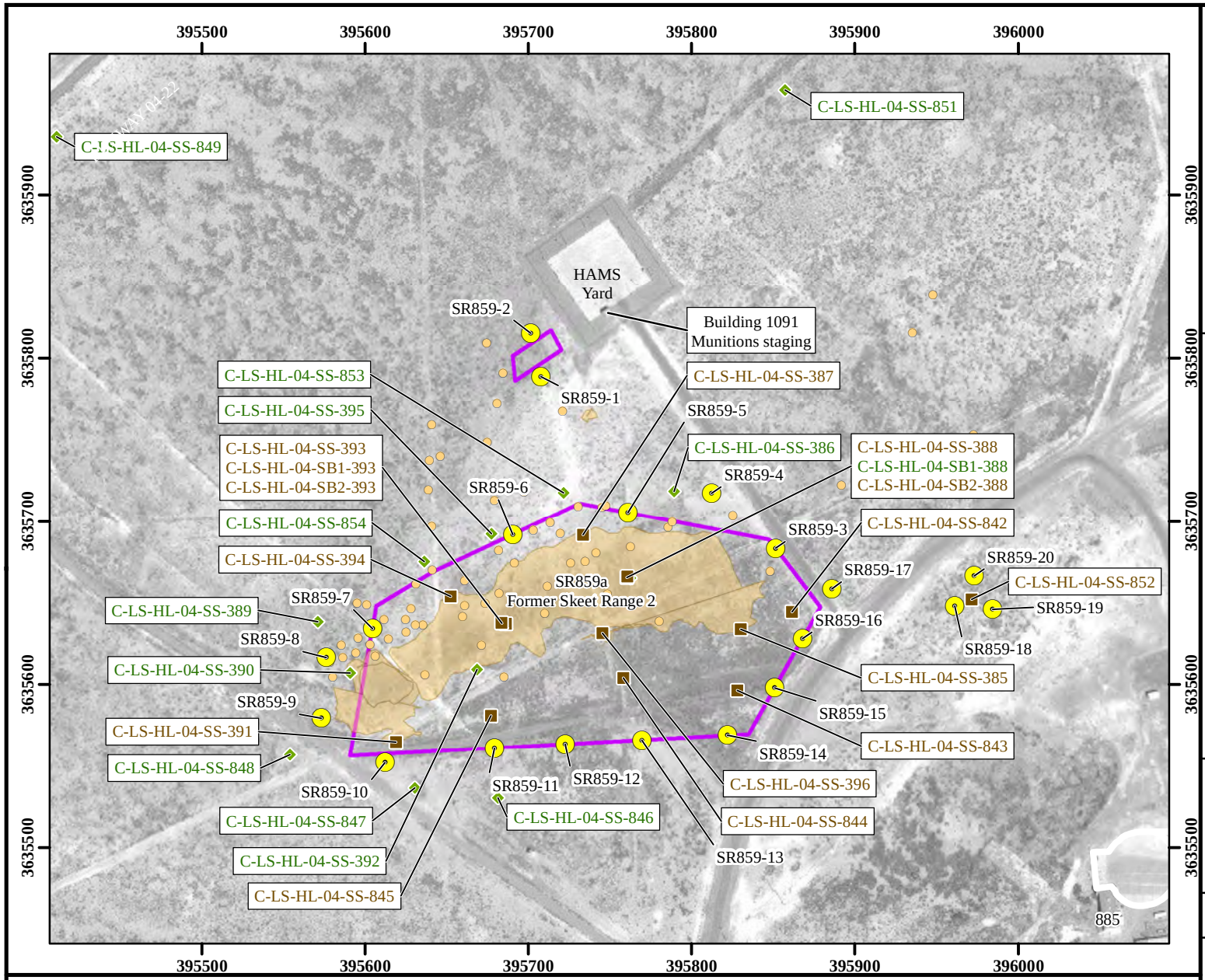

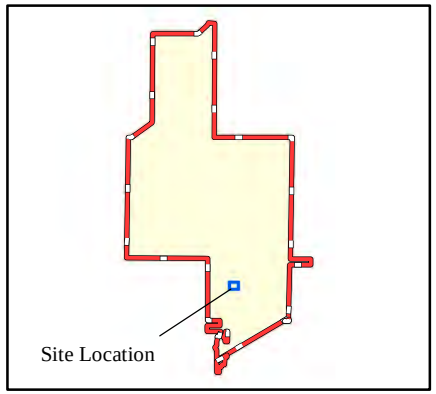

Legend

- Pre-Excavation Sample Location
- Clay Target Debris
- PAH Sample Location Below HHSL*
- PAH Sample Location Above HHSL*
- SR859a MRS Boundary
- Clay Target Debris

NOTES:
1. SR859 MRS boundary based on CSE Phase II findings
2. HHSL - Human Health Screening Level.
3. Appendix E contains PAH analytical results and sample depths.

Date Saved: 12/14/2015

This project is the result of digital analyses performed on a variety of databases provided and maintained by several public and private agencies. The accuracy of the information presented is limited to the collective accuracy of this map. However, it is intended for planning purposes only and should not be considered exact. A field inspection and locate is required. FPM Remediations Inc. makes no claims regarding the accuracy of the information depicted herein.

Coordinate System:
NAD 1983 UTM Zone 13N
Projection: Transverse Mercator
Datum: North American 1983
Units: Meter
Service Layer Credits: Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo, and the GIS User Community

1 inch = 300 feet

0 50 100 Meters

0 150 300 Feet

N W E S

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New Mexico-Arizona
Holloman Air Force Base
Alamogordo, NM
AFCEC

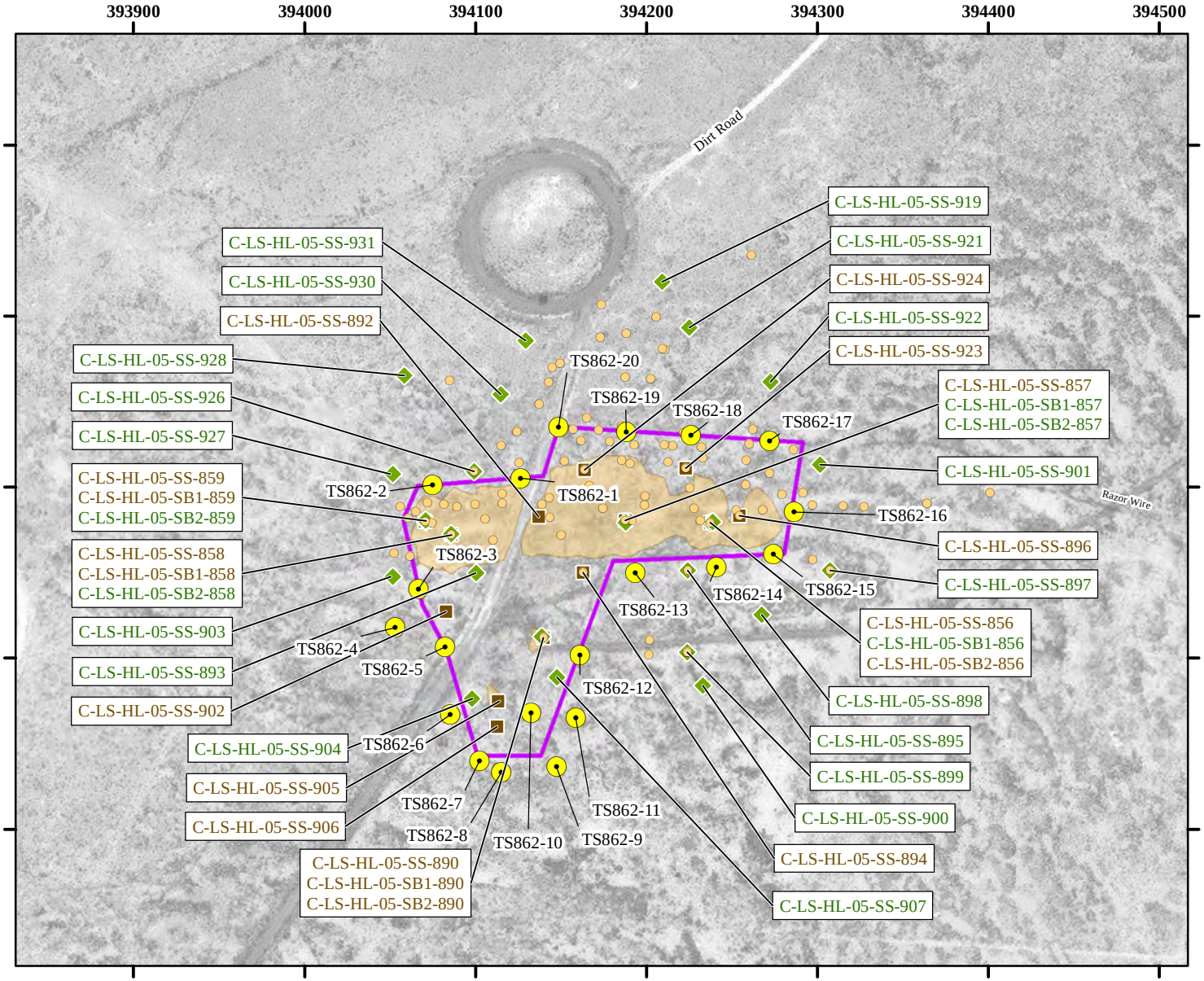
FIGURE 10

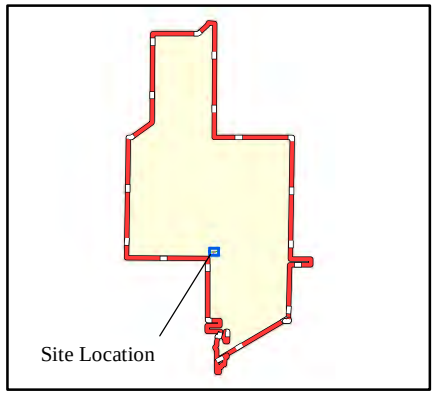
SR859a
RI Sample Locations

FPM Remediations, Inc.

2015

Path: Y:\GIS_Projects\Holloman_AFB\Projects\RI_Rpt\SR859_TS862\Fig10_SR859a_RI_Samp_Locs.mxd





Legend

- Pre-Excavation Sample Location
- Clay Target Debris
- PAH Sample Location Below HHSL*
- PAH Sample Location Above HHSL* (Bold)
- Clay Target Debris
- TS862a MRS Boundary

Performance Based Remediation
New Mexico-Arizona
Holloman Air Force Base
Alamogordo, NM
AFCEC

FIGURE 11

TS862a
RI Sample Locations

FPM Remediations, Inc.

2015

NOTES:
1. SR859 MRS boundary based on CSE Phase II findings
2. HHSL - Human Health Screening Level.
3. Appendix E contains PAH analytical results and sample depths.

Date Saved: 12/14/2015

This project is the result of digital analyses performed on a variety of databases provided and maintained by several public and private agencies. The accuracy of the information presented is limited to the collective accuracy of this map. However, it is intended for planning purposes only and should not be considered exact. A field inspection and locate is required. FPM Remediations Inc. makes no claims regarding the accuracy of the information depicted herein.

Coordinate System:
NAD 1983 UTM Zone 13N
Projection: Transverse Mercator
Datum: North American 1983
Units: Meter
Service Layer Credits: Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo, and the GIS User Community

1 inch = 300 feet

0 50 100 Meters

0 150 300 Feet

N W E S

Path: Y:\GIS_Projects\Holloman_AFB\Projects\RI_Rpt\SR859_TS862\Fig11_TS862a_RI_Samp_Locs.mxd

Figure 12
SR859a Former Skeet Range 2 MRS Exposure Pathway Model

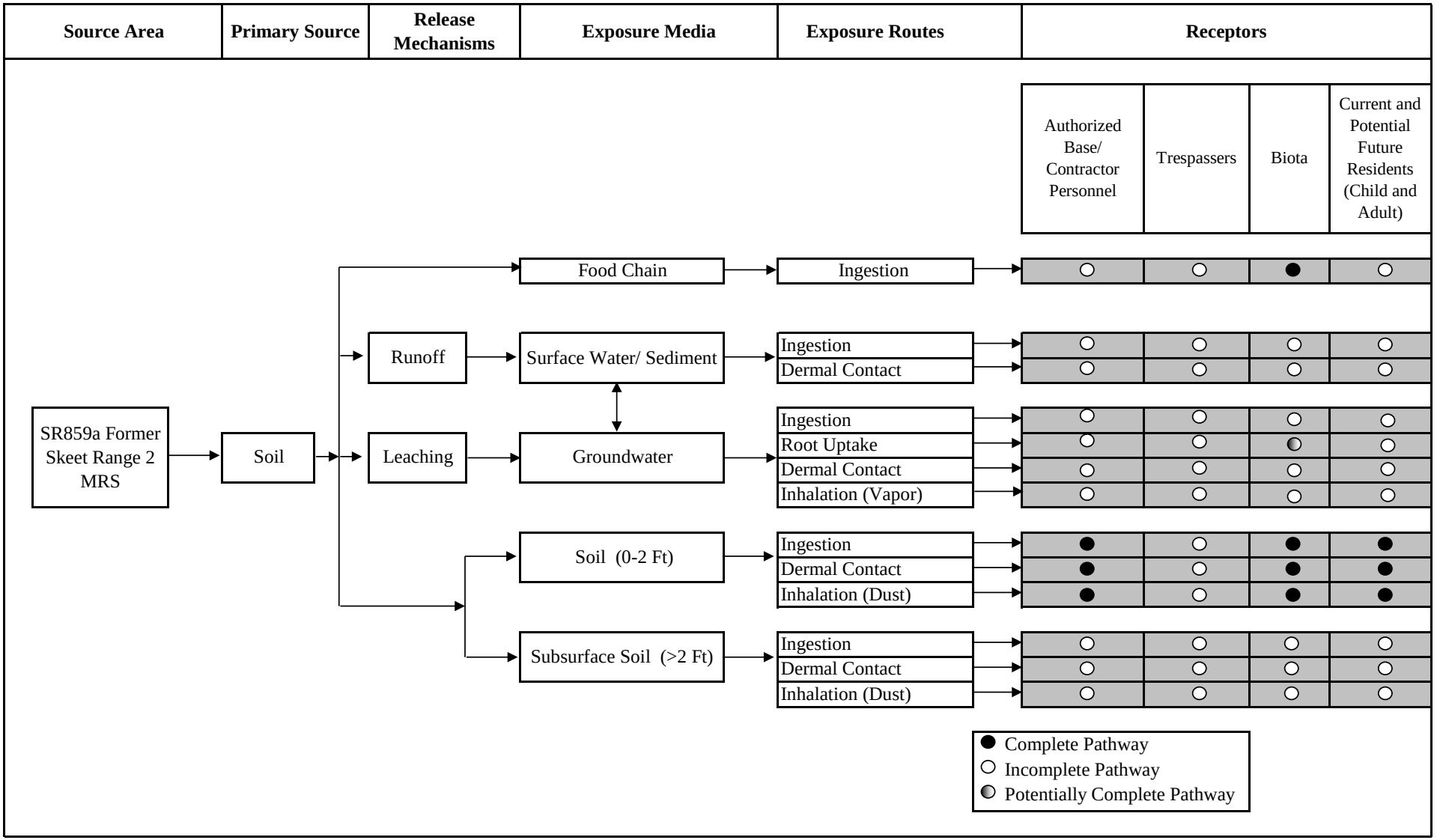
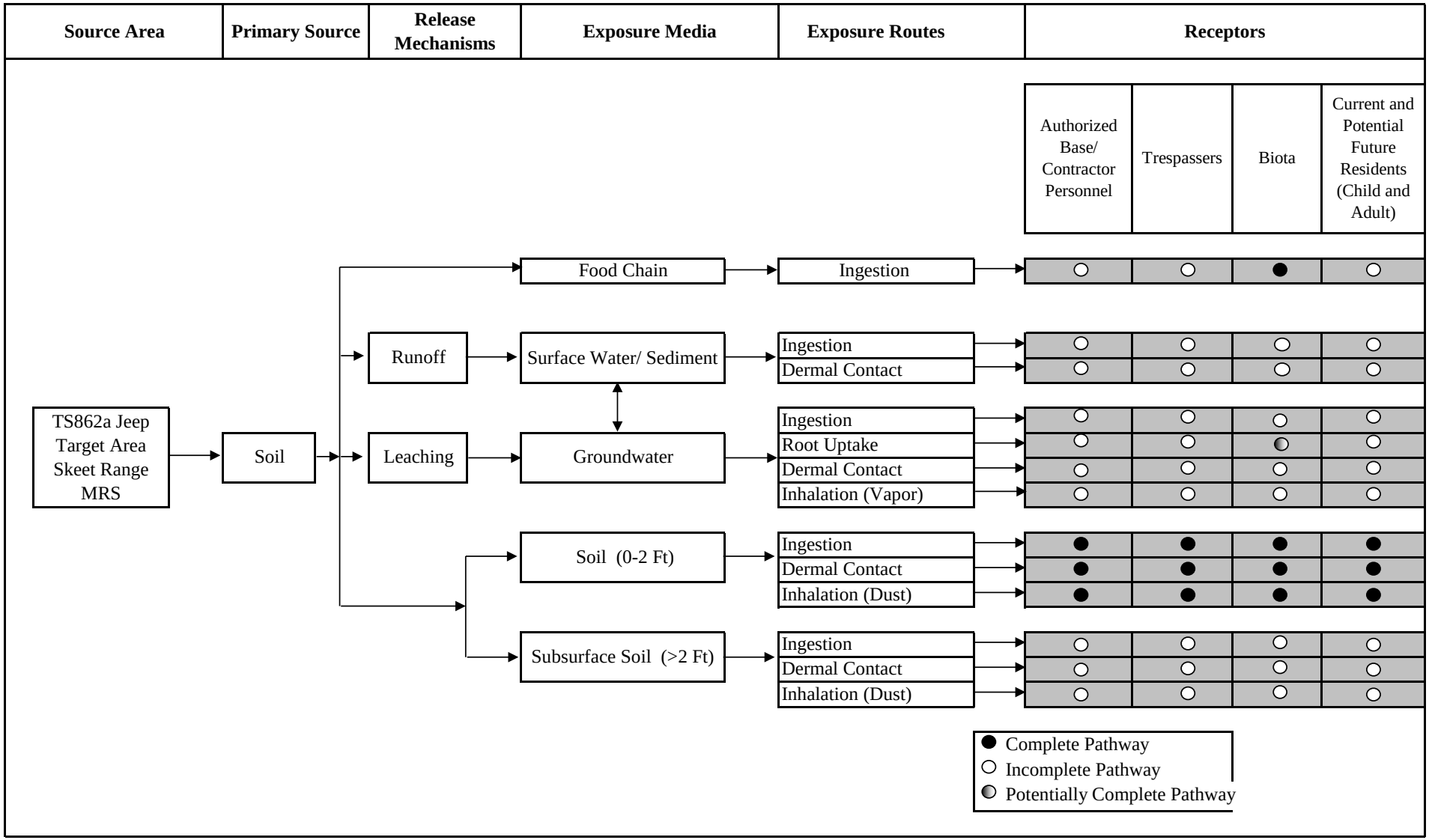


Figure 13
TS862 a Jeep Target Area Skeet Range MRS Exposure Pathway Model



TABLES

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Table 1
SR859a RI Soil Analytical Results

Site	USEPA Screening Levels[1] Residential Soil (mg/kg)	NMED Hazardous Waste Bureau Residential SSL (mg/kg)	SR859a	SR859a	SR859a	SR859a	SR859a	SR859a	SR859a	SR859a	SR859a	SR859a
Sample ID:			SR859-1	SR859-2	SR859-3	SR859-4	SR859-5	SR859-6	SR859-7	SR859-8	SR859-9	SR859-10
Date Sampled:			3/26/2015	3/26/2015	3/26/2015	3/26/2015	3/26/2015	3/26/2015	3/26/2015	3/26/2015	3/26/2015	3/26/2015
PAHs (mg/kg)												
Acenaphthene	3,600	3,440	U	U	U	U	U	U	U	U	U	U
Acenaphthylene	NA	NA	U	U	U	U	U	U	U	U	U	U
Benzo(a)anthracene	0.16	1.48	U	U	U	U	U	U	U	U	U	0.0329 J
Benzo(a)pyrene	0.016	0.148	U	U	U	U	U	U	U	U	U	0.0371 J
Benzo(b)fluoranthene	0.16	1.48	U	U	U	U	U	U	U	U	U	0.0436 J
Benzo(g,h,i,)perylene	NA	NA	U	U	U	U	U	U	U	U	U	0.0309 J
Benzo(k)fluoranthene	1.6	14.8	U	U	U	U	U	U	U	U	U	0.0306 J
Chrysene	16	14.8	U	U	U	U	U	U	U	U	U	0.0413 J
Dibenz(a,h)anthracene	0.016	0.148	U	U	U	U	U	U	U	U	U	U
Fluoranthene	2,400	2,290	U	U	U	U	U	U	U	U	U	0.0383 J
Fluorene	2,400	2,290	U	U	U	U	U	U	U	U	U	U
Indeno(1,2,3-cd)pyrene	0.16	1.48	U	U	U	U	U	U	U	U	U	0.0284 J
2-methylnaphthalene	240	NA	U	U	U	U	U	U	U	U	U	U
Naphthalene	3.8	43	U	U	U	U	U	U	U	U	U	U
Phenanthrene	NA	1,830	U	U	U	U	U	U	U	U	U	U
Pyrene	1,800	1,720	U	U	U	U	U	U	U	U	U	0.0398
Metals (mg/kg)												
Antimony	31	31.3	U	U	U	U	U	U	U	U	U	2.6 J
Arsenic	0.68	3.9	1.8	1.4	2.5	3.9	2.5	2.1	1.4	1.6	1.2	2.3
Copper	3,100	3,130	2.2	3.2	5.1	10.3	5.7	4.7	3.8	3.5	2.9	4.5
Lead	400	400	19.4	33.4	0.68 J	4.5 J	3.3 J	2.3 J	6.1 J	2.4 J	1.1 J	1.7 J
Zinc	23,000	23,500	8.4 J	9.9 J	13.2	32.7	15.7	14.1	11.9 J	10.2	9.0 J	17.6

Notes:

NA - So Standard or Screening Level Available

RSL - Regional Screening Level

SSL - Soil Screening Level

U - The analyte was analyzed for, but not detected. The numerical value is at or below the MDL.

J - Analyte was positively identified above the Method Detection Limit (MDL), but the concentration is below the Reporting Limit (RL).

- Exceedance of the USEPA Residential Soil Screening Levels.

♦ - Denotes higher numerical value recorded from duplicate sample.

[1] - November 2015 USEPA Regional Residential Screening Levels. These values will serve as the Project Action Limits for this project.

Table 1
SR859a RI Soil Analytical Results

Site	USEPA Screening Levels[1] Residential Soil (mg/kg)	NMED Hazardous Waste Bureau Residential SSL (mg/kg)	SR859a	SR859a	SR859a	SR859a	SR859a	SR859a	SR859a	SR859a	SR859a	SR859a
Sample ID:			SR859-11	SR859-12	SR859-13	SR859-14	SR859-15	SR859-16	SR859-17	SR859-18	SR859-19	SR859-20
Date Sampled:			3/26/2015	3/26/2015	3/26/2015	3/26/2015	3/26/2015	3/26/2015	3/26/2015	3/26/2015	3/26/2015	3/26/2015
PAHs (mg/kg)												
Acenaphthene	3,600	3,440	U	U	U	U	U	U	U	U	U	U
Acenaphthylene	NA	NA	U	U	U	U	U	U	U	U	U	U
Benzo(a)anthracene	0.16	1.48	U	U	U	U	U	U	U	U	U	U
Benzo(a)pyrene	0.016	0.148	U	U	U	U	U	U	U	U	U	U
Benzo(b)fluoranthene	0.16	1.48	U	U	U	U	U	U	U	U	U	U
Benzo(g,h,i,)perylene	NA	NA	U	U	U	U	U	U	U	U	U	U
Benzo(k)fluoranthene	1.6	14.8	U	U	U	U	U	U	U	U	U	U
Chrysene	16	14.8	U	U	U	U	U	U	U	U	U	U
Dibenz(a,h)anthracene	0.016	0.148	U	U	U	U	U	U	U	U	U	U
Fluoranthene	2,400	2,290	U	U	U	U	U	U	U	U	U	U
Fluorene	2,400	2,290	U	U	U	U	U	U	U	U	U	U
Indeno(1,2,3-cd)pyrene	0.16	1.48	0.0174 J	U	U	U	U	U	U	U	U	U
2-methylnaphthalene	240	NA	U	U	U	U	U	U	U	U	U	U
Naphthalene	3.8	43	U	U	U	U	U	U	U	U	U	U
Phenanthrene	NA	1,830	U	U	U	U	U	U	U	U	U	U
Pyrene	1,800	1,720	U	U	U	U	U	U	U	U	U	U
Metals (mg/kg)												
Antimony	31	31.3	U	U	U	U	U	U	U	U	1.2 J	0.76 J
Arsenic	0.68	3.9	1.9	2.6♦	3.1	1.4	1.1	1.6	3.9	1.8	1.5 J	1.9 J
Copper	3,100	3,130	3.9	9.7♦	8.2	2.8	1.9	4.1	4.4	2.9	2.2 J	2.6 J
Lead	400	400	1.8 J	9.5♦	5.9 J	U	U	2.1 J	U	U	1.5 J	2.2 J
Zinc	23,000	23,500	14.8	37.6♦	27.3	8.3 J	5 J	13.9	10 J	8.0 J	U	U

Notes:

NA - So Standard or Screening Level Available

RSL - Regional Screening Level

SSL - Soil Screening Level

U - The analyte was analyzed for, but not detected. The numerical value is at or below the MDL.

J - Analyte was positively identified above the Method Detection Limit (MDL), but the concentration is below the Reporting Limit (RL).

- Exceedance of the USEPA Residential Soil Screening Levels.

♦ - Denotes higher numerical value recorded from duplicate sample.

[1] - November 2015 USEPA Regional Residential Screening Levels. These values will serve as the Project Action Limits for this project.

Table 2
SR859 CSE Phase II Soil Analytical Results

Site	USEPA Screening Levels[1] Residential Soil (mg/kg)	NMED Hazardous Waste Bureau Residential SSL (mg/kg)	SR859	SR859	SR859	SR859	SR859	SR859	SR859	SR859
Sample ID:			C-LS-HL-04-SS-385	C-LS-HA-04-SS-386	C-LS-HL-04-SS-387	C-LS-HL-04-SS-388	C-LS-HL-04-SB1-388	C-LS-HL-04-SB2-388	C-LS-HL-04-SS-389	C-LS-HL-04-SS-390
Date Sampled:			12/13/2011	12/13/2011	12/13/2011	12/13/2011	2/27/2012	3/1/2012	12/13/2011	12/13/2011
PAHs (mg/kg)										
Acenaphthene	3,600	3,440	0.0021 J	U	0.0042 J	0.19	U	U	U	U
Acenaphthylene	NA	NA	U	U	U	U	U	U	U	U
Anthracene	18000	17200	0.0089	U	0.018	0.57	U	0.016	U	U
Benzo(a)anthracene	0.16	1.48	0.11	0.003 J	0.17	7.4	0.011	0.1	0.0046 J	0.01
Benzo(a)pyrene	0.016	0.148	0.12	0.0048 J	0.18	7.4	0.012	0.09	0.0066 J	0.013
Benzo(b)fluoranthene	0.16	1.48	0.15 J	U	0.19 J	8.1 J	0.021 J	0.096 J	0.0048 J	0.013 J
Benzo(g,h,i,)perylene	NA	NA	0.1	0.0023 J	0.14	5.4	0.0086	0.061	0.0043 J	0.01
Benzo(k)fluoranthene	1.6	14.8	0.1 J	U	0.17 J	7.4 J	0.0096 J	0.096 J	U	0.011 J
Chrysene	16	14.8	0.13	0.0037 J	0.2	8.1	0.013	0.11	0.0063 J	0.014
Dibenz(a,h)anthracene	0.016	0.148	0.029	U	0.039	1.6 J	0.0022 J	0.017	U	U
Fluoranthene	2,400	2,290	0.18	0.0047 J	0.28	10	0.02	0.2	0.0074 J	0.022
Fluorene	2,400	2,290	U	U	U	0.056 J	U	U	U	U
Indeno(1,2,3-cd)pyrene	0.16	1.48	0.09	0.0052 J	0.12	4.8	0.0077 J	0.058	0.0069 J	0.012
2-methylnaphthalene	240	NA	U	U	U	U	U	U	U	U
Naphthalene	3.8	43	U	U	0.0028 J	0.2	U	U	U	U
Phenanthrene	NA	1,830	0.059	0.0023 J	0.1	3.3	0.0072 J	0.09	0.0029 J	0.0077
Pyrene	1,800	1,720	0.16	0.0042 J	0.25	9.3	0.018	0.17	0.0064 J	0.019

Notes:

NA - So Standard or Screening Level Available

RSL - Regional Screening Level

SSL - Soil Screening Level

U - The analyte was analyzed for, but not detected. The numerical value is at or below the MDL.

J - Analyte was positively identified above the Method Detection Limit (MDL), but the concentration is below the Reporting Limit (RL).

SS - Surface Soil Sample 0-6 inches

SB1 - Subsurface Soil Sample 6-12 inches

SB2 - Subsurface Soil Sample 12-18 inches

- Exceedance of the USEPA Residential Soil Screening Levels.

♦ - Denotes higher numerical value recorded from duplicate sample.

[1] - November 2015 USEPA Regional Residential Screening Levels. These values will serve as the Project Action Limits for this project.

All data summarized from Holloman CSE Phase II - September 2013

Table 2
SR859 CSE Phase II Soil Analytical Results

Site	USEPA Screening Levels[1] Residential Soil (mg/kg)	NMED Hazardous Waste Bureau Residential SSL (mg/kg)	SR859	SR859	SR859	SR859	SR859	SR859	SR859	SR859
Sample ID:			C-LS-HL-04-SS-391	C-LS-HL-04-SS-392	C-LS-HL-04-SS-393	C-LS-HL-04-SB1-393	C-LS-HL-04-SB2-393	C-LS-HL-04-SS-394	C-LS-HL-04-SS-395	C-LS-HL-04-SS-396
Date Sampled:			12/13/2011	12/13/2011	12/13/2011	2/27/2012	3/1/2012	12/13/2011	12/13/2011	12/13/2011
PAHs (mg/kg)										
Acenaphthene	3,600	3,440	U	U	1 J	U	U	0.12	U	0.21
Acenaphthylene	NA	NA	U	U	U	U	U	U	U	U
Anthracene	18000	17200	U	U	5.5	0.0024 J	0.0028 J	0.19	U	0.48
Benzo(a)anthracene	0.16	1.48	0.17	0.0095	46	0.033	0.023	3.7	0.0036 J	5.6
Benzo(a)pyrene	0.016	0.148	0.26	0.013	42	0.039	0.02	3.6	0.0054 J	5.1
Benzo(b)fluoranthene	0.16	1.48	0.34 J	0.012 J	51 J	0.046 J	0.032 J	3.8 J	0.0024 J	5.5
Benzo(g,h,i,)perylene	NA	NA	0.25	0.0099	27	0.029	0.015	2.4	0.0027 J	3.1
Benzo(k)fluoranthene	1.6	14.8	0.24 J	0.011 J	37 J	0.035 J	0.021 J	3.5 J	U	4.6
Chrysene	16	14.8	0.3	0.014	50	0.041	0.025	3.9	0.0041 J	5.7
Dibenz(a,h)anthracene	0.016	0.148	0.073	U	7.8	0.0076 J	0.0036 J	0.77	U	1
Fluoranthene	2,400	2,290	0.37	0.02	78	0.052	0.049	4	0.0069 J	7.2
Fluorene	2,400	2,290	U	U	U	U	U	0.041 J	U	0.087
Indeno(1,2,3-cd)pyrene	0.16	1.48	0.22	0.012	25	0.028	0.014	2.2	0.006 J	3
2-methylnaphthalene	240	NA	U	U	U	U	U	0.039 J	U	0.061 J
Naphthalene	3.8	43	U	U	1.1 J	U	U	0.15	U	0.23
Phenanthrene	NA	1,830	0.088	0.0065 J	30	0.014	0.019	1	0.0023 J	2.2
Pyrene	1,800	1,720	0.33	0.018	69	0.048	0.041	3.9	0.0053 J	6.7

Notes:

NA - So Standard or Screening Level Available

RSL - Regional Screening Level

SSL - Soil Screening Level

U - The analyte was analyzed for, but not detected. The numerical value is at or below the MDL.

J - Analyte was positively identified above the Method Detection Limit (MDL), but the concentration is below the Reporting Limit (RL).

SS - Surface Soil Sample 0-6 inches

SB1 - Subsurface Soil Sample 6-12 inches

SB2 - Subsurface Soil Sample 12-18 inches

- Exceedance of the USEPA Residential Soil Screening Levels.

♦ - Denotes higher numerical value recorded from duplicate sample.

[1] - November 2015 USEPA Regional Residential Screening Levels. These values will serve as the Project Action Limits for this project.

All data summarized from Holloman CSE Phase II - September 2013

Table 2
SR859 CSE Phase II Soil Analytical Results

Site	USEPA Screening Levels[1] Residential Soil (mg/kg)	NMED Hazardous Waste Bureau Residential SSL (mg/kg)	SR859	SR859	SR859	SR859	SR859	SR859	SR859	SR859
Sample ID:			C-LS-HL-04-SS-397 (Duplicate from 393)	C-LS-HL-04-SS-398 (Duplicate from 385)	C-LS-HL-04-SS-842	C-LS-HL-04-SS-843	C-LS-HL-04-SS844	C-LS-HL-04-SS-845	C-LS-HL-04-SS-847	C-LS-HL-04-SS-848
Date Sampled:			12/13/2011	12/13/2011	2/27/2012	2/27/2012	2/24/2012	2/27/2012	2/27/2012	2/27/2012
PAHs (mg/kg)										
Acenaphthene	3,600	3,440	1.4 J	U	U	U	0.017 J	0.005 J	U	U
Acenaphthylene	NA	NA	U	U	U	U	U	U	U	U
Anthracene	18000	17200	10	0.0087	0.0052 J	U	0.069 J	0.016	U	U
Benzo(a)anthracene	0.16	1.48	60	0.11	0.056	0.44	0.76	0.22	0.01	0.0022 J
Benzo(a)pyrene	0.016	0.148	51	0.13	0.06	0.45	0.9	0.25	0.011	0.0022 J
Benzo(b)fluoranthene	0.16	1.48	65 J	0.15 J	0.056 J	0.47 J	0.95 J	0.29 J	0.02 J	U
Benzo(g,h,i,)perylene	NA	NA	34	0.11	0.047	0.34	0.72	0.17	0.0098	0.002 J
Benzo(k)fluoranthene	1.6	14.8	45 J	0.11 J	0.053 J	0.3 J	0.71 J	0.17 J	0.0092 J	U
Chrysene	16	14.8	62	0.13	0.06	0.41	0.85	0.27	0.013	0.003 J
Dibenz(a,h)anthracene	0.016	0.148	9.2	0.03	0.016	0.18	0.17	0.051	0.0023 J	U
Fluoranthene	2,400	2,290	110	0.18	0.1	0.66	1.2	0.36	0.018	0.004 J
Fluorene	2,400	2,290	0.51 J	U	U	U	U	U	U	U
Indeno(1,2,3-cd)pyrene	0.16	1.48	30	0.093	0.047	0.36	0.64	0.16	0.0083	0.002 J
2-methylnaphthalene	240	NA	U	U	U	U	U	U	U	U
Naphthalene	3.8	43	1.4 J	0.0028 J	U	U	0.011 J	0.003 J	U	U
Phenanthrene	NA	1,830	52	0.053	0.029	0.16	0.37	0.1	0.0061 J	U
Pyrene	1,800	1,720	96	0.16	0.088	0.62	1.1	0.34	0.017	0.0034 J

Notes:

NA - So Standard or Screening Level Available

RSL - Regional Screening Level

SSL - Soil Screening Level

U - The analyte was analyzed for, but not detected. The numerical value is at or below the MDL.

J - Analyte was positively identified above the Method Detection Limit (MDL), but the concentration is below the Reporting Limit (RL).

SS - Surface Soil Sample 0-6 inches

SB1 - Subsurface Soil Sample 6-12 inches

SB2 - Subsurface Soil Sample 12-18 inches

- Exceedance of the USEPA Residential Soil Screening Levels.

♦ - Denotes higher numerical value recorded from duplicate sample.

[1] - November 2015 USEPA Regional Residential Screening Levels. These values will serve as the Project Action Limits for this project.

All data summarized from Holloman CSE Phase II - September 2013

Table 2
SR859 CSE Phase II Soil Analytical Results

Site	USEPA Screening Levels[1] Residential Soil (mg/kg)	NMED Hazardous Waste Bureau Residential SSL (mg/kg)	SR859	SR859	SR859
Sample ID:			C-LS-HL-04-SS-853	C-LS-HL-04-SS-854	C-LS-HL-04-SS-855 (Duplicate from 854)
Date Sampled:			2/27/2012	2/27/2012	2/27/2012
PAHs (mg/kg)					
Acenaphthene	3,600	3,440	U	0.0055 J	U
Acenaphthylene	NA	NA	U	U	U
Anthracene	18000	17200	U	0.0034 J	U
Benzo(a)anthracene	0.16	1.48	U	0.0034 J	0.0046 J
Benzo(a)pyrene	0.016	0.148	U	0.0032 J	0.0053 J
Benzo(b)fluoranthene	0.16	1.48	U	U	0.015 J
Benzo(g,h,i,)perylene	NA	NA	U	U	0.0044 J
Benzo(k)fluoranthene	1.6	14.8	U	U	U
Chrysene	16	14.8	U	0.0039 J	0.006 J
Dibenz(a,h)anthracene	0.016	0.148	U	U	U
Fluoranthene	2,400	2,290	U	0.008 J	0.0093
Fluorene	2,400	2,290	U	0.0037 J	U
Indeno(1,2,3-cd)pyrene	0.16	1.48	U	U	0.0043 J
2-methylnaphthalene	240	NA	U	U	U
Naphthalene	3.8	43	U	0.0075 J	U
Phenanthrene	NA	1,830	U	0.013	0.0034 J
Pyrene	1,800	1,720	U	0.0068 J	0.0083

Notes:

NA - So Standard or Screening Level Available

RSL - Regional Screening Level

SSL - Soil Screening Level

U - The analyte was analyzed for, but not detected. The numerical value is at or below the MDL.

J - Analyte was positively identified above the Method Detection Limit (MDL), but the concentration is below the Reporting Limit (RL).

SS - Surface Soil Sample 0-6 inches

SB1 - Subsurface Soil Sample 6-12 inches

SB2 - Subsurface Soil Sample 12-18 inches

- Exceedance of the USEPA Residential Soil Screening Levels.

♦ - Denotes higher numerical value recorded from duplicate sample.

[1] - November 2015 USEPA Regional Residential Screening Levels. These values will serve as the Project Action Limits for this project.

All data summarized from Holloman CSE Phase II - September 2013

Table 3
TS862a RI Soil Analytical Results

Site	USEPA Screening Levels[1] Residential Soil (mg/kg)	NMED Hazardous Waste Bureau Residential SSL (mg/kg)	TS862	TS862	TS862	TS862	TS862	TS862	TS862	TS862	TS862	TS862
Sample ID:			TS862-1	TS862-2	TS862-3	TS862-4	TS862-5	TS862-6	TS862-7	TS862-8	TS862-9	TS862-10
Date Sampled:			3/29/2015	3/29/2015	3/29/2015	3/29/2015	3/29/2015	3/29/2015	3/29/2015	3/29/2015	3/29/2015	3/29/2015
PAHs (mg/kg)												
Acenaphthene	3,600	3,440	U	U	U	U	U	U	U	U	U	U
Acenaphthylene	NA	NA	U	U	U	U	U	U	U	U	U	U
Benzo(a)anthracene	0.16	1.48	U	U	U	U	U	U	U	U	U	U
Benzo(a)pyrene	0.016	0.148	U	U	U	U	U	U	U	U	U	U
Benzo(b)fluoranthene	0.16	1.48	U	U	U	U	U	U	U	U	U	U
Benzo(g,h,i,)perylene	NA	NA	U	U	U	U	U	U	U	U	U	U
Benzo(k)fluoranthene	1.6	14.8	U	U	U	U	U	U	U	U	U	U
Chrysene	16	14.8	U	U	U	U	U	U	U	U	U	U
Dibenz(a,h)anthracene	0.016	0.148	U	U	U	U	U	U	U	U	U	U
Fluoranthene	2,400	2,290	U	U	U	U	U	U	U	U	U	U
Fluorene	2,400	2,290	U	U	U	U	U	U	U	U	U	U
Indeno(1,2,3-cd)pyrene	0.16	1.48	U	U	U	U	U	U	U	U	U	U
2-methylnaphthalene	240	NA	U	U	U	U	U	U	U	U	U	U
Naphthalene	3.8	43	U	U	U	U	U	U	U	U	U	U
Phenanthrene	NA	1,830	U	U	U	U	U	U	U	U	U	U
Pyrene	1,800	1,720	U	U	U	U	U	U	U	U	U	U
Metals (mg/kg)												
Antimony	31	31.3	1.4 J	0.98 J	2.5 J	1.9 J	1.9 J	1.1 J	U	0.84 J	0.98 J	1.1 J
Arsenic	0.68	3.9	1.7 J	U	U	0.95 J	U	1.4 J	1.4 J	1.3 J	U	1.3 J
Copper	3,100	3,130	2.5 J	2.0 J	3.2 J	33.1 J♦	3.6 J	3.6 J	3.1 J	3.8 J	3.4 J	3.7 J
Lead	400	400	1.7 J	0.80 J	2.6 J	0.99 J	1.4 J	2.7 J	1.6 J	2.2 J	1.9 J	2.4 J
Zinc	23,000	23,500	8.8 J	5.0 J	11.3	8.0 J♦	7.4 J	14.2	11.9	14.3	10.6 J	14.8

Notes:

NA - So Standard or Screening Level Available

RSL - Regional Screening Level

SSL - Soil Screening Level

U - The analyte was analyzed for, but not detected. The numerical value is at or below the MDL.

J - Analyte was positively identified above the Method Detection Limit (MDL), but the concentration is below the Reporting Limit (RL).

- Exceedance of the USEPA Residential Soil Screening Levels.

♦ - Denotes higher numerical value recorded from duplicate sample.

[1] - November 2015 USEPA Regional Residential Screening Levels. These values will serve as the Project Action Limits for this project.

Table 3
TS862a RI Soil Analytical Results

Site	USEPA Screening Levels[1] Residential Soil (mg/kg)	NMED Hazardous Waste Bureau Residential SSL (mg/kg)	TS862	TS862	TS862	TS862	TS862	TS862	TS862	TS862	TS862	TS862
Sample ID:			TS862-11	TS862-12	TS862-13	TS862-14	TS862-15	TS862-16	TS862-17	TS862-18	TS862-19	TS862-20
Date Sampled:			3/29/2015	3/29/2015	3/29/2015	3/29/2015	3/29/2015	3/29/2015	3/29/2015	3/29/2015	3/29/2015	3/29/2015
PAHs (mg/kg)												
Acenaphthene	3,600	3,440	U	U	U	U	U	U	U	U	U	U
Acenaphthylene	NA	NA	U	U	U	U	U	U	U	U	U	U
Benzo(a)anthracene	0.16	1.48	U	U	U	U	U	U	U	U	U	U
Benzo(a)pyrene	0.016	0.148	U	U	U	U	U	U	U	U	U	U
Benzo(b)fluoranthene	0.16	1.48	U	U	U	U	U	U	U	U	U	U
Benzo(g,h,i,)perylene	NA	NA	U	U	U	U	U	U	U	U	U	U
Benzo(k)fluoranthene	1.6	14.8	U	U	U	U	U	U	U	U	U	U
Chrysene	16	14.8	U	U	U	U	U	U	U	U	U	U
Dibenz(a,h)anthracene	0.016	0.148	U	U	U	U	U	U	U	U	U	U
Fluoranthene	2,400	2,290	U	U	U	U	0.0257 J	U	U	0.0214 J	U	U
Fluorene	2,400	2,290	U	U	U	U	U	U	U	U	U	U
Indeno(1,2,3-cd)pyrene	0.16	1.48	U	U	U	U	U	U	U	U	U	U
2-methylnaphthalene	240	NA	U	U	U	U	U	U	U	U	U	U
Naphthalene	3.8	43	U	U	U	U	U	U	U	U	U	U
Phenanthrene	NA	1,830	U	U	U	U	U	U	U	U	U	U
Pyrene	1,800	1,720	U	U	U	U	0.0236 J	U	U	0.0241 J	U	U
Metals (mg/kg)												
Antimony	31	31.3	U	1.2 J	1.2 J	1.3 J	1.6 J	0.88 J	U	U	U	U
Arsenic	0.68	3.9	1.2 J	1.6 J	1.5 J	2.3 J	2.2 J	U	U	1.0 J	1.1 J	1.5 J
Copper	3,100	3,130	4.5 J	4.2 J	3.6 J	4.6 J	4.0 J	1.9 J	1.2 J	3.7 J	3.4 J	4.5 J
Lead	400	400	2.9 J	3.1 J	2.3 J	3.0 J	2.9 J	1.2 J	U	0.73 J	U	1.8 J
Zinc	23,000	23,500	12.8	13.5	12	14.2	12.7	4.0 J	2.2 J	10.6	10.5	17.8

Notes:

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- Exceedance of the USEPA Residential Soil Screening Levels.

♦ - Denotes higher numerical value recorded from duplicate sample.

[1] - November 2015 USEPA Regional Residential Screening Levels. These values will serve as the Project Action Limits for this project.

Table 4
TS862 CSE Phase II Soil Analytical Results

Site	USEPA Screening Levels[1] Residential Soil RSL (mg/kg)	NMED Hazardous Waste Bureau Residential SSL (mg/kg)	TS862	TS862	TS862	TS862	TS862	TS862	TS862	TS862
Sample ID:			C-LS-HL-05-SS-856	C-LS-HL-05-SB1-856	C-LS-HL-05-SB2-856	C-LS-HL-05-SS-857	C-LS-HL-05-SB1-857	C-LS-HL-05-SB2-857	C-LS-HL-05-SS-858	C-LS-HL-05-SB1-858
Date Sampled:			2/27/2012	2/27/2012	2/28/2012	2/27/2012	2/27/2012	2/28/2012	2/27/2012	2/27/2012
PAHs (mg/kg)										
2-methylnaphthalene	240	NA	0.042 J	U	U	U	U	U	U	U
Acenaphthene	3,600	3,440	0.29	U	U	0.04	U	U	0.032 J	0.0029 J
Acenaphthylene	NA	NA	U	U	U	U	U	U	U	U
Anthracene	18,000	17,200	0.98	U	0.0018 J	0.13	U	U	0.12	0.01
Benzo(a)anthracene	0.16	1.48	7.2	0.01	0.023	1.4	U	U	1.1	0.095
Benzo(a)pyrene	0.016	0.148	7.2	0.012	0.029	1.4	U	U	1.4	0.098
Benzo(b)fluoranthene	0.16	1.48	6.4 J	0.0011 J	0.03 J	1.4 J	U	U	1.2 J	0.081 J
Benzo(g,h,i,)perylene	NA	NA	4.6	0.0096	0.02	0.91	U	U	1.1	0.07
Benzo(k)fluoranthene	1.6	14.8	5.4 J	U	0.028 J	1.2 J	U	U	1.1 J	0.098 J
Chrysene	16	14.8	8.8	0.0087	0.035	1.7	U	0.0032 J	1.6	0.12
Dibenz(a,h)anthracene	0.016	0.148	1.4	0.0076 J	0.0056 J	0.27	U	U	0.28	0.021
Fluoranthene	2,400	2,290	14	0.0095	0.041	2.4	U	0.0044 J	2.1	0.17
Fluorene	2,400	2,290	0.08	U	U	U	U	U	U	U
Indeno(1,2,3-cd)pyrene	0.16	1.48	4.6	0.13	0.018	0.87	U	U	0.94	0.069
Naphthalene	3.8	43	0.055 J	U	U	0.011 J	U	U	U	U
Phenanthrene	NA	1,830	5.7	0.003 J	0.013	0.81	U	U	0.88	0.063
Pyrene	1,800	1,720	14	0.01	0.048	2.5	U	0.0037 J	2.3	0.17

Notes:
NA - So Standard or Screening Level Available
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SS - Surface Soil Sample 0-6 inches
SB1 - Subsurface Soil Sample 6-12 inches
SB2 - Subsurface Soil Sample 12-18 inches
- Exceedance of the USEPA Residential Soil Screening Levels.
♦ - Denotes higher numerical value recorded from duplicate sample.
[1] - November 2015 USEPA Regional Residential Screening Levels. These values will serve as the Project Action Limits for this project.
All data summarized from Holloman CSE Phase II - September 2013

Table 4
TS862 CSE Phase II Soil Analytical Results

Site	USEPA Screening Levels[1] Residential Soil RSL (mg/kg)	NMED Hazardous Waste Bureau Residential SSL (mg/kg)	TS862	TS862	TS862	TS862	TS862	TS862	TS862	TS862
Sample ID:			C-LS-HL-05-SB2-858	C-LS-HL-05-SS-859	C-LS-HL-05-SB1-859	C-LS-HL-05-SB2-859	C-LS-HL-05-SS-890	C-LS-HL-05-SB1-890	C-LS-HL-05-SB2-890	C-LS-HL-05-SS-891 (Duplicate from 890)
Date Sampled:			2/28/2012	2/27/2012	2/27/2012	2/28/2012	2/28/2012	2/28/2012	2/28/2012	2/28/2012
PAHs (mg/kg)										
2-methylnaphthalene	240	NA	U	U	U	U	0.61	U	U	0.65
Acenaphthene	3,600	3,440	U	U	U	U	2.5	0.014 J	0.0088 J	2.8
Acenaphthylene	NA	NA	U	U	U	U	U	U	U	0.09 J
Anthracene	18,000	17,200	U	0.0034 J	U	U	2	0.13	0.15	20
Benzo(a)anthracene	0.16	1.48	U	0.033	U	U	180	1.4	1	180
Benzo(a)pyrene	0.016	0.148	U	0.045	U	U	160	1.4	0.88	170
Benzo(b)fluoranthene	0.16	1.48	U	0.048 J	U	U	190 J	1.8 J	1 J	220 J
Benzo(g,h,i,)perylene	NA	NA	U	0.035	U	U	110	1.1	0.6	120
Benzo(k)fluoranthene	1.6	14.8	U	0.041 J	U	U	130 J	1 J	0.79 J	130 J
Chrysene	16	14.8	U	0.054	U	U	170	1.1	0.98	190
Dibenz(a,h)anthracene	0.016	0.148	U	0.0072 J	U	U	35	0.28	0.16	33
Fluoranthene	2,400	2,290	0.0029 J	0.076	U	0.0026 J	330	2.4	2.1	330
Fluorene	2,400	2,290	U	U	U	U	0.59	U	U	0.65
Indeno(1,2,3-cd)pyrene	0.16	1.48	U	0.034	U	U	100	0.94	0.56	110
Naphthalene	3.8	43	U	U	U	U	2.8	0.014 J	0.015 J	2.9
Phenanthrene	NA	1,830	U	0.025	U	U	140	0.88	0.95	120
Pyrene	1,800	1,720	0.0024 J	0.074	U	0.0028 J	290	2.2	1.8	280

Notes:
NA - So Standard or Screening Level Available
RSL - Regional Screening Level
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SS - Surface Soil Sample 0-6 inches
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SB2 - Subsurface Soil Sample 12-18 inches
- Exceedance of the USEPA Residential Soil Screening Levels.
♦ - Denotes higher numerical value recorded from duplicate sample.
[1] - November 2015 USEPA Regional Residential Screening Levels. These values will serve as the Project Action Limits for this project.
All data summarized from Holloman CSE Phase II - September 2013

Table 4
TS862 CSE Phase II Soil Analytical Results

Site	USEPA Screening Levels[1] Residential Soil RSL (mg/kg)	NMED Hazardous Waste Bureau Residential SSL (mg/kg)	TS862	TS862	TS862	TS862	TS862	TS862	TS862	TS862
Sample ID:			C-LS-HL-05-SS-892	C-LS-HL-05-SS-893	C-LS-HL-05-SS-894	C-LS-HL-05-SS-895	C-LS-HL-05-SS-896	C-LS-HL-05-SS-897	C-LS-HL-05-SS-898	C-LS-HL-05-SS-899
Date Sampled:			2/29/2012	2/29/2012	2/29/2012	2/29/2012	2/29/2012	2/29/2012	2/29/2012	2/29/2012
PAHs (mg/kg)										
2-methylnaphthalene	240	NA	U	U	U	U	U	U	U	U
Acenaphthene	3,600	3,440	0.51	U	U	U	0.031 J	U	U	U
Acenaphthylene	NA	NA	U	U	U	U	U	U	U	U
Anthracene	18,000	17,200	1.4	U	0.0047 J	U	0.18	U	U	U
Benzo(a)anthracene	0.16	1.48	12	U	0.068	0.0062 J	1.3	0.004 J	0.0046 J	U
Benzo(a)pyrene	0.016	0.148	12	U	0.097	0.0076 J	1.3	0.004 J	0.005 J	U
Benzo(b)fluoranthene	0.16	1.48	12 J	U	0.1 J	0.018 J	1.3 J	U	U	U
Benzo(g,h,i,)perylene	NA	NA	6.4	U	0.07	0.0063 J	0.69	0.0032 J	0.0053 J	U
Benzo(k)fluoranthene	1.6	14.8	8.8 J	U	0.094 J	U	1.1 J	U	U	U
Chrysene	16	14.8	14	U	0.087	0.0095 J	1.7	0.0053 J	0.006 J	U
Dibenz(a,h)anthracene	0.016	0.148	2	U	0.017	U	0.22	U	U	U
Fluoranthene	2,400	2,290	20	U	0.16	0.012	2.5	0.0079	0.008	U
Fluorene	2,400	2,290	0.11 J	U	U	U	U	U	U	U
Indeno(1,2,3-cd)pyrene	0.16	1.48	6.6	U	0.065	0.0054 J	0.71	0.0029 J	0.0035 J	U
Naphthalene	3.8	43	0.16 J	U	U	U	0.014 J	U	U	U
Phenanthrene	NA	1,830	7.5	U	0.047	0.0041 J	1.2	0.0032 J	0.0033 J	U
Pyrene	1,800	1,720	19	U	0.16	0.011	2.5	0.0069 J	0.0072	U

Notes:
NA - So Standard or Screening Level Available
RSL - Regional Screening Level
SSL - Soil Screening Level
U - The analyte was analyzed for, but not detected. The numerical value is at or below the MDL.
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SS - Surface Soil Sample 0-6 inches
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SB2 - Subsurface Soil Sample 12-18 inches
- Exceedance of the USEPA Residential Soil Screening Levels.
♦ - Denotes higher numerical value recorded from duplicate sample.
[1] - November 2015 USEPA Regional Residential Screening Levels. These values will serve as the Project Action Limits for this project.
All data summarized from Holloman CSE Phase II - September 2013

Table 4
TS862 CSE Phase II Soil Analytical Results

Site	USEPA Screening Levels[1] Residential Soil RSL (mg/kg)	NMED Hazardous Waste Bureau Residential SSL (mg/kg)	TS862	TS862	TS862	TS862	TS862	TS862	TS862	TS862
Sample ID:			C-LS-HL-05-SS-900	C-LS-HL-05-SS-901	C-LS-HL-05-SS-902	C-LS-HL-05-SS-903	C-LS-HL-05-SS-904	C-LS-HL-05-SS-905	C-LS-HL-05-SS-906	C-LS-HL-05-SS-907
Date Sampled:			2/29/2012	2/29/2012	3/2/2012	3/2/2012	3/2/2012	3/2/2012	3/2/2012	3/2/2012
PAHs (mg/kg)										
2-methylnaphthalene	240	NA	U	U	U	U	U	U	U	U
Acenaphthene	3,600	3,440	U	U	0.027 J	U	U	U	U	U
Acenaphthylene	NA	NA	U	U	U	U	U	U	U	U
Anthracene	18,000	17,200	U	U	0.18	U	U	0.013 J	U	U
Benzo(a)anthracene	0.16	1.48	U	0.0051 J	1	0.0029 J	U	0.13	0.039	0.013
Benzo(a)pyrene	0.016	0.148	U	0.0055 J	0.83	0.0029 J	U	0.14	0.052	0.014
Benzo(b)fluoranthene	0.16	1.48	U	0.014 J	0.9 J	0.011 J	U	0.18 J	0.071 J	0.021 J
Benzo(g,h,i,)perylene	NA	NA	U	0.0041 J	0.48	0.0025 J	U	0.12	0.052	0.013
Benzo(k)fluoranthene	1.6	14.8	U	U	0.79 J	U	U	0.1 J	0.055 J	0.014 J
Chrysene	16	14.8	U	0.0067 J	1.1	0.0035 J	U	0.17	0.062	0.016
Dibenz(a,h)anthracene	0.016	0.148	U	U	0.14	U	U	0.029	0.011 J	0.003 J
Fluoranthene	2,400	2,290	U	0.0096	2.2	0.0043 J	U	0.24	0.08	0.026
Fluorene	2,400	2,290	U	U	U	U	U	U	U	U
Indeno(1,2,3-cd)pyrene	0.16	1.48	U	0.0035 J	0.48	0.0023 J	U	0.1	0.044	0.011
Naphthalene	3.8	43	U	U	0.028 J	U	U	U	U	U
Phenanthrene	NA	1,830	U	0.036 J	0.99	0.0019 J	U	0.093	0.021	0.0085
Pyrene	1,800	1,720	U	0.0096	1.8	0.0038 J	U	0.22	0.078	0.023

Notes:
NA - So Standard or Screening Level Available
RSL - Regional Screening Level
SSL - Soil Screening Level
U - The analyte was analyzed for, but not detected. The numerical value is at or below the MDL.
J - Analyte was positively identified above the Method Detection Limit (MDL), but the concentration is below the Reporting Limit (RL).
SS - Surface Soil Sample 0-6 inches
SB1 - Subsurface Soil Sample 6-12 inches
SB2 - Subsurface Soil Sample 12-18 inches
- Exceedance of the USEPA Residential Soil Screening Levels.
♦ - Denotes higher numerical value recorded from duplicate sample.
[1] - November 2015 USEPA Regional Residential Screening Levels. These values will serve as the Project Action Limits for this project.
All data summarized from Holloman CSE Phase II - September 2013

Table 4
TS862 CSE Phase II Soil Analytical Results

Site	USEPA Screening Levels[1] Residential Soil RSL (mg/kg)	NMED Hazardous Waste Bureau Residential SSL (mg/kg)	TS862	TS862	TS862	TS862	TS862	TS862	TS862	TS862
Sample ID:			C-LS-HL-05-SS-919	C-LS-HL-05-SS-920 (Duplicate from 919)	C-LS-HL-05-SS-921	C-LS-HL-05-SS-922	C-LS-HL-05-SS-923	C-LS-HL-05-SS-924	C-LS-HL-05-SS-925 (Duplicated from 924)	C-LS-HL-05-SS-926
Date Sampled:			3/2/2012	3/2/2012	3/2/2012	3/2/2012	3/2/2012	3/2/2012	3/2/2012	3/2/2012
PAHs (mg/kg)										
2-methylnaphthalene	240	NA	U	U	U	U	U	U	U	U
Acenaphthene	3,600	3,440	U	U	U	U	0.004 J	0.0018 J	0.0028 J	U
Acenaphthylene	NA	NA	U	U	U	U	U	U	U	U
Anthracene	18,000	17,200	U	U	U	U	0.015	0.0099	0.01	0.0021 J
Benzo(a)anthracene	0.16	1.48	U	U	U	U	0.18	0.12	0.15	0.011
Benzo(a)pyrene	0.016	0.148	U	U	U	U	0.22	0.16	0.2	0.0098
Benzo(b)fluoranthene	0.16	1.48	U	U	U	U	0.2 J	0.19 J	0.2 J	0.019 J
Benzo(g,h,i,)perylene	NA	NA	U	U	U	U	0.16	0.14	0.16	0.0086 J
Benzo(k)fluoranthene	1.6	14.8	U	U	U	U	0.2 J	0.15 J	0.17 J	0.0095 J
Chrysene	16	14.8	U	U	U	U	0.25	0.21	0.24	0.013
Dibenz(a,h)anthracene	0.016	0.148	U	U	U	U	0.041	0.034	0.039	U
Fluoranthene	2,400	2,290	U	U	0.0023 J	U	0.32	0.3	0.31	0.022
Fluorene	2,400	2,290	U	U	U	U	U	U	U	U
Indeno(1,2,3-cd)pyrene	0.16	1.48	U	U	U	U	0.15	0.13	0.15	0.0069 J
Naphthalene	3.8	43	U	U	U	U	U	U	U	U
Phenanthrene	NA	1,830	U	U	U	U	0.12	0.095	0.097	0.011
Pyrene	1,800	1,720	U	U	0.0021 J	U	0.34	0.28	0.31	0.019

Notes:
NA - So Standard or Screening Level Available
RSL - Regional Screening Level
SSL - Soil Screening Level
U - The analyte was analyzed for, but not detected. The numerical value is at or below the MDL.
J - Analyte was positively identified above the Method Detection Limit (MDL), but the concentration is below the Reporting Limit (RL).
SS - Surface Soil Sample 0-6 inches
SB1 - Subsurface Soil Sample 6-12 inches
SB2 - Subsurface Soil Sample 12-18 inches
- Exceedance of the USEPA Residential Soil Screening Levels.
♦ - Denotes higher numerical value recorded from duplicate sample.
[1] - November 2015 USEPA Regional Residential Screening Levels. These values will serve as the Project Action Limits for this project.
All data summarized from Holloman CSE Phase II - September 2013

Table 4
TS862 CSE Phase II Soil Analytical Results

Site	USEPA Screening Levels[1] Residential Soil RSL (mg/kg)	NMED Hazardous Waste Bureau Residential SSL (mg/kg)	TS862	TS862	TS862	TS862	TS862
Sample ID:			C-LS-HL-05-SS-927	C-LS-HL-05-SS-928	C-LS-HL-05-SS-929 (Duplicated from 928)	C-LS-HL-05-SS-930	C-LS-HL-05-SS-931
Date Sampled:			3/2/2012	3/2/2012	3/2/2012	3/2/2012	3/2/2012
PAHs (mg/kg)							
2-methylnaphthalene	240	NA	U	U	U	U	U
Acenaphthene	3,600	3,440	U	U	U	U	U
Acenaphthylene	NA	NA	U	U	U	U	U
Anthracene	18,000	17,200	U	U	U	U	U
Benzo(a)anthracene	0.16	1.48	U	U	U	0.0037 J	U
Benzo(a)pyrene	0.016	0.148	U	U	U	0.0041 J	U
Benzo(b)fluoranthene	0.16	1.48	U	U	U	U	U
Benzo(g,h,i,)perylene	NA	NA	U	U	U	0.0035 J	U
Benzo(k)fluoranthene	1.6	14.8	U	U	U	U	U
Chrysene	16	14.8	U	U	U	0.0051 J	U
Dibenz(a,h)anthracene	0.016	0.148	U	U	U	U	U
Fluoranthene	2,400	2,290	0.0028 J	U	U	0.0065 J	U
Fluorene	2,400	2,290	U	U	U	U	U
Indeno(1,2,3-cd)pyrene	0.16	1.48	U	U	U	0.0033 J	U
Naphthalene	3.8	43	U	U	U	U	U
Phenanthrene	NA	1,830	U	U	U	0.0023 J	U
Pyrene	1,800	1,720	0.0024 J	U	U	0.0062 J	U

Notes:
NA - So Standard or Screening Level Available
RSL - Regional Screening Level
SSL - Soil Screening Level
U - The analyte was analyzed for, but not detected. The numerical value is at or below the MDL.
J - Analyte was positively identified above the Method Detection Limit (MDL), but the concentration is below the Reporting Limit (RL).
SS - Surface Soil Sample 0-6 inches
SB1 - Subsurface Soil Sample 6-12 inches
SB2 - Subsurface Soil Sample 12-18 inches
- Exceedance of the USEPA Residential Soil Screening Levels.
♦ - Denotes higher numerical value recorded from duplicate sample.
[1] - November 2015 USEPA Regional Residential Screening Levels. These values will serve as the Project Action Limits for this project.
All data summarized from Holloman CSE Phase II - September 2013

Table 5
SR859a Former Skeet Range 2
Summary of COPCs for Human Health Risk Assessment

Analyte	Frequency Detected	Maximum Concentration[1] (mg/kg)	USEPA Residential RSL	NMED Residential Soil SSL	Above Screening Levels
Metals (mg/kg)					
Antimony	2/20	1.2 J	31	31.3	No
Arsenic[2]	20/20	3.9	0.68	4.3	Yes
Copper	20/20	10.3	3100	3130	No
Lead	126/163	463	400	400	Yes
Zinc	18/18	38	23000	23500	No
PAHs (mg/kg)					
Acenapthene	9/48	1.4	3600	3440	No
Anthracene	13/48	10	18000	17200	No
Benzo(a)anthracene	27/48	60	0.16	1.48	Yes
Benzo(a)pyrene	26/48	51	0.016	0.148	Yes
Benzo(b)fluoranthene	23/48	65	0.16	1.48	Yes
Benzo(g,h,i)perylene	26/48	34	NA	NA	No
Benzo(k)fluoranthene	19/48	45	1.6	14.8	Yes
Chrysene	28/48	62	16	15	Yes
Dibenz(a,h)anthracene	16/48	9.2	0.016	0.148	Yes
Fluoranthene	28/48	110	2400	2290	No
Fluorene	5/48	0.51	2400	2290	No
Indeno(1,2,3-cd)pyrene	26/48	30	0.16	1.48	Yes
2-methylnapthalene	2/48	0.061	240	NA	No
Napthalene	9/48	1	3.8	43.0	No
Phenanthrene	24/48	52	NA	1830	No
Pyrene	27/48	96	1800	1720	No

Notes:

1. Maximum concentration detected in analytical soil samples collected.
2. Arsenic values below background value.

SSL - Soil Screening Level

USEPA - United States Environmental Protection Agency

Identified as a COPC and will be evaluated in the HHRA.

NA- Not available

Table 6
TS862a Jeep Target Area Skeet Range
Summary of COPCs for Human Health Risk Assessment

Analyte	Frequency Detected	Maximum Concentration[1]	USEPA Residential RSL	NMED Residential Soil SSL	Above Screening Levels
Metals (mg/kg)					
Antimony	13/20	1.9	31	31.3	No
Arsenic[2]	14/20	2.3	0.68	4.3	Yes
Copper	20/20	4.6	3100	3130	No
Lead	27/157	101	400	400	No
Zinc	20/20	18	23000	23500	No
PAHs (mg/kg)					
Acenapthene	12/61	2.8	3600	3440	No
Acenapthylene	1/61	0.09	NA	NA	No
Anthracene	16/61	20	18000	17200	No
Benzo(a)anthracene	26/61	180	0.16	1.48	Yes
Benzo(a)pyrene	26/61	170	0.016	0.148	Yes
Benzo(b)fluoranthene	23/61	220	0.16	1.48	Yes
Benzo(g,h,i)perylene	26/61	120	NA	NA	No
Benzo(k)fluoranthene	19/61	130	1.6	14.8	Yes
Chrysene	27/61	190	16	15	Yes
Dibenz(a,h)anthracene	19/61	35	0.016	0.148	Yes
Fluoranthene	33/61	330	2400	2290	No
Fluorene	3/61	0.65	2400	2290	No
Indeno(1,2,3-cd)pyrene	26/61	110	0.16	1.48	Yes
2-methylnapthalene	2/61	0.65	240	NA	No
Napthalene	8/61	2.9	3.8	43.0	No
Phenanthrene	26/61	140	NA	1830	No
Pyrene	33/61	290	1800	1720	No

Notes:
1. Maximum concentration detected in analytical soil samples collected.
2. Arsenic values below background value.
SSL - Soil Screening Level
USEPA - United States Environmental Protection Agency
Identified as a COPC and will be evaluated in the HHRA.
NA- Not available

Table 7
SR859a Former Skeet Range 2 MRS
Summary of Human Health Streamlined Risk Assessment
Residential

Analyte	Exposure Point Cocentration[1] (EPC)	USEPA RSL Residential Soil[2] (Cancer Risk)	USEPA RSL Residential Soil[2] (Non-Cancer Risk)	Target Cancer Risk (CR)	Calculated CR	Target Hazard Quotient (HQ)	Hazard Index (HI)
Surface Soil							
SVOCs (mg/kg)							
Benzo(a)anthracene	7.18	0.16	NE	1.E-06	4.E-05	1	NE
Benzo(a)pyrene	6.17	0.016	NE	1.E-06	4.E-04	1	NE
Benzo(b)fluoranthene	7.79	0.16	NE	1.E-06	5.E-05	1	NE
Benzo(k)fluoranthene	5.51	1.60	NE	1.E-06	3.E-06	1	NE
Chrysene	7.43	16	NE	1.E-06	5.E-07	1	NE
Dibenz(a,h)anthracene	1.14	0.016	NE	1.E-06	7.E-05	1	NE
Indeno(1,2,3-cd)pyrene	3.66	0.16	NE	1.E-06	2.E-05	1	NE
Metals (mg/kg)							
Lead	104	NA	400	NA	NA	1	0.00
			Cumulative Risk		**6.E-04**		**0.00**

Notes:
1 - EPC is the RME concentration.
2 - June 2015 USEPA Regional Screening Levels for Residential Soil.
CR = (EPC/RSL Value)*Target CR
Target CR = 1.00E-06
HI = (EPC/RSL Value)*Target HQ
Target HQ = 1
NA - Not applicable
NE - Not established

Table 8
TS862a Jeep Target Area Skeet Range
Summary of Human Health Streamlined Risk Assessment
Residential

Analyte	Exposure Point Cocentration[1] (EPC)	USEPA RSL Residential Soil[2] (Cancer Risk)	USEPA RSL Residential Soil (Non-Cancer Risk)	Target Cancer Risk (CR)	Calculated CR	Target Hazard Quotient (HQ)	Hazard Index (HI)
Surface Soil							
SVOCs (mg/kg)							
Benzo(a)anthracene	16.42	0.16	NE	1.E-06	1.E-04	1	NE
Benzo(a)pyrene	15.53	0.016	NE	1.E-06	1.E-03	1	NE
Benzo(b)fluoranthene	19.99	0.16	NE	1.E-06	1.E-04	1	NE
Benzo(k)fluoranthene	11.95	1.60	NE	1.E-06	7.E-06	1	NE
Chrysene	17.38	16	NE	1.E-06	1.E-06	1	NE
Dibenzo(a,h)anthracene	3.21	0.016	NE	1.E-06	2.E-04	1	NE
Indeno(1,2,3-cd)pyrene	10.03	0.16	NE	1.E-06	6.E-05	1	NE
			Cumulative Risk		**1.E-03**		**NA**

Notes:
1 - EPC is the RME concentration.
2 - June 2015 USEPA Regional Screening Levels for Residential Soil.
CR = (EPC/RSL Value)*Target CR
Target CR = 1.00E-06
HI = (EPC/RSL Value)*Target HQ
Target HQ = 1
NA - Not applicable
NE - Not established

APPENDIX A
Daily Site Reports and Field Notes

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FPM Remediations, Inc.

Date: Thursday, 26 March 2015

DAILY SITE REPORT

Report Number: 067

Project Title: Holloman AFB PBR Soil and GW Sampling

Location: SR859

Contract Number: FA8903-13-C-0008

WEATHER	BRIGHT SUN	CLEAR	OVERCAST	RAIN	SNOW
TEMPERATURE	< 32	32 - 50	50 - 70	70-85	>85
WIND	STILL	MODERATE	HIGH		
HUMIDITY	DRY	MODERATE	HUMID		

Personnel On-Site

No.	Name	Hrs.	Affiliation	Location/Description of Work
a.	Trevor Schlossnagle	9.5	FPM Env Scientist	SR859 soil sampling
b.	Brett Evans	9.5	FPM Asst Engineer	SR859 soil sampling
Visitors				
a.	Clinton Fuller	6	NationView	Site Access Escort

Field Changes: YES_____ NO____X_____

If yes, filed Nonconformance and Corrective Action Report number (NCR No.):_____

Work Performed include location)	Holloman SR859 Former Skeet Range 2 RI soil sampling was conducted. Samples will be analyzed for Metals and PAH and were collected. 12 of 20 proposed RI sampling locations including additional step outs were completed today. Step-out samples will be held by the laboratory and only analyzed upon approval from FPM based on primary sample results to assist in defining contamination boundaries.
Equipment Used:	Dodge Ram, Trimble GPS unit, and Stainless Steel Hand auger sampling tooling.
Health & Safety (Briefing held, PPE, injuries, near misses, etc.)	Daily Tailgate meeting.
Samples Collected	24 discrete soil samples were collected (12 primary samples and 12 step-out samples) at SR859. Primary samples were labeled as SR859-1 through -12, and Step-out samples SR859-1A through -12A. QC samples were also collected: two duplicates and one MS/MSD sample.
Verbal Instructions Received or Given:	N/A
Changed Conditions/Delays/Conflicts Encountered:	One sample was adjusted due to visual confirmation of clay target debris. The sample location was adjusted so as the refined boundary would encompass the area of higher clay target debris not originally included in the boundary.
Other Comments or Additional Information:	Next Day's Planned Activities: Finish collecting soil samples from site SR859. Continue soil sampling at OD20K.

Contractor Verification: On behalf of the contractor, FPM Remediations, Inc., I certify this report is complete and correct, and all materials and equipment used and work performed during this reporting period are in compliance with the contract plans and specifications, to the best of my knowledge, except as may be noted above.

Signature _____ Date 3/26/15

Peter Corigliano/Site Lead

Name/Title

FPM Remediations, Inc.

Date: Friday, 27 March 2015

DAILY SITE REPORT

Report Number: 068

Project Title: Holloman AFB PBR Soil and GW Sampling

Location: SR859

Contract Number: FA8903-13-C-0008

WEATHER	BRIGHT SUN	CLEAR	OVERCAST	RAIN	SNOW
TEMPERATURE	< 32	32 - 50	50 - 70	70-85	>85
WIND	STILL	MODERATE	HIGH		
HUMIDITY	DRY	MODERATE	HUMID		

Personnel On-Site

No.	Name	Hrs.	Affiliation	Location/Description of Work
a.	Trevor Schlossnagle	8	FPM Env Scientist	SR859 soil sampling
b.	Brett Evans	8	FPM Asst Engineer	SR859 soil sampling
Visitors				
a.	Clinton Fuller	4	NationView	Site Access Escort

Field Changes: YES_____ NO____X_____

If yes, filed Nonconformance and Corrective Action Report number (NCR No.):_____

Work Performed include location)	Continue to collect RI soil samples at Holloman SR859 Former Skeet Range 2. Sub-surface samples were collected using discrete hand augering techniques. The remaining 8 of 20 proposed RI sampling locations including step outs were completed today. Step-out samples will be held by the laboratory and only analyzed upon approval from FPM based on primary sample results. All samples were packaged and sent to Accutest Laboratory via FedEx.
Equipment Used:	Dodge Ram, Trimble GPS unit, and stainless steel hand auger sampling tooling.
Health & Safety (Briefing held, PPE, injuries, near misses, etc.)	Daily Tailgate meeting.
Samples Collected	16 discrete sub-surface soil samples were collected (8 primary samples and 8 step-out samples) at SR859. Primary samples were labeled as SR859-13 through -20, and Step-out samples SR859-13A through -20A.
Verbal Instructions Received or Given:	N/A
Changed Conditions/Delays/Conflicts Encountered:	N/A
Other Comments or Additional Information:	Next Day's Planned Activities: Finish collecting soil samples from site OD20K.

Contractor Verification: On behalf of the contractor, FPM Remediations, Inc., I certify this report is complete and correct, and all materials and equipment used and work performed during this reporting period are in compliance with the contract plans and specifications, to the best of my knowledge, except as may be noted above.

_____ 3/27/15

Signature Date

Peter Corigliano/Site Lead

Name/Title

FPM Remediations, Inc.

Date: Sunday, 29 March 2015

DAILY SITE REPORT

Report Number: 070

Project Title: Holloman AFB PBR Soil and GW Sampling

Location: TS862

Contract Number: FA8903-13-C-0008

WEATHER	BRIGHT SUN	CLEAR	OVERCAST	RAIN	SNOW
TEMPERATURE	< 32	32 - 50	50 - 70	70-85	>85
WIND	STILL	MODERATE	HIGH		
HUMIDITY	DRY	MODERATE	HUMID		

Personnel On-Site

No.	Name	Hrs.	Affiliation	Location/Description of Work
a.	Trevor Schlossnagle	5	FPM Env Scientist	TS862 soil sampling
b.	Brett Evans	5	FPM Asst Engineer	TS862 soil sampling
Visitors				

Field Changes: YES_____ NO____X_____

If yes, filed Nonconformance and Corrective Action Report number (NCR No.):_____

Work Performed include location)	Holloman TS862 Jeep Target Area Skeet Range RI soil sampling was conducted in efforts to refine the contamination boundary. Metals and PAH samples were collected from 6 of 20 proposed sampling locations including step outs were completed today. As with other step-out locations collected, these samples will be held by the laboratory and only analyzed upon approval from FPM based on primary sample results. GPS location data was also collected for all sample locations.
Equipment Used:	Dodge Ram, Trimble GPS unit, and Hand auger sampling tooling.
Health & Safety (Briefing held, PPE, injuries, near misses, etc.)	Daily Tailgate meeting.
Samples Collected	12 discrete soil samples were collected (6 primary samples and 6 step-out samples) at TS862 Jeep Target Area Skeet Range. Primary samples were labeled as TS862-1 through -6, and Step-out samples TS862-1A through -6A. One duplicate and one MS/MSD sample were collected.
Verbal Instructions Received or Given:	N/A
Changed Conditions/Delays/Conflicts Encountered:	N/A
Other Comments or Additional Information:	Next Day's Planned Activities: Finish collecting soil samples from site TS862.

Contractor Verification: On behalf of the contractor, FPM Remediations, Inc., I certify this report is complete and correct, and all materials and equipment used and work performed during this reporting period are in compliance with the contract plans and specifications, to the best of my knowledge, except as may be noted above.

_____ 3/29/15

Signature Date

Peter Corigliano/Site Lead

Name/Title

FPM Remediations, Inc.

Date: Monday, 30 March 2015

DAILY SITE REPORT

Report Number: 071

Project Title: Holloman AFB PBR Soil and GW Sampling

Location: TS862

Contract Number: FA8903-13-C-0008

WEATHER	BRIGHT SUN	CLEAR	OVERCAST	RAIN	SNOW
TEMPERATURE	< 32	32 - 50	50 - 70	70-85	>85
WIND	STILL	MODERATE	HIGH		
HUMIDITY	DRY	MODERATE	HUMID		

Personnel On-Site

No.	Name	Hrs.	Affiliation	Location/Description of Work
a.	Trevor Schlossnagle	8	FPM Env Scientist	TS862 soil sampling
b.	Brett Evans	8	FPM Asst Engineer	TS862 soil sampling
Visitors				

Field Changes: YES_____ NO____X_____

If yes, filed Nonconformance and Corrective Action Report number (NCR No.):_____

Work Performed include location)	Holloman TS862 Jeep Target Area Skeet Range RI soil sampling was conducted for metals and PAH analysis. The remaining 14 of 20 proposed sampling locations including step outs were completed today. Step-out samples will be held by the laboratory and only analyzed upon approval from FPM based on primary sample results.
Equipment Used:	Dodge Ram, Trimble GPS unit, and stainless steel hand auger sampling tooling.
Health & Safety (Briefing held, PPE, injuries, near misses, etc.)	Daily Tailgate meeting.
Samples Collected	27 discrete soil samples were collected (14 primary samples and 13 step-out samples) at TS862. Primary samples were labeled as TS862-7 through -20, and Step-out samples TS862-7A through -20A. TS862-10 is within the proposed excavation boundary and did not warrant a step out location due to another sample along the boundary. These samples will help refine the contamination boundaries. One duplicate sample was collected.
Verbal Instructions Received or Given:	N/A
Changed Conditions/Delays/Conflicts Encountered:	N/A
Other Comments or Additional Information:	Next Day's Planned Activities: Pack and ship TS862 and OD20K samples.

Contractor Verification: On behalf of the contractor, FPM Remediations, Inc., I certify this report is complete and correct, and all materials and equipment used and work performed during this reporting period are in compliance with the contract plans and specifications, to the best of my knowledge, except as may be noted above.

Signature _____ Date 3/30/15

Peter Corigliano/Site Lead

Name/Title

Location Holloman Date

Project / Client

PAH - 8270D Sim
metals - 6010 C

Location Holloman AFB Date 3-23-15

Project / Client

Trevor S, Brett E Sunny, 75°

1200 Arrive @ Front gate & sign in
1215 H+S Meeting
1230 Meet w/ John Tan's of Test Track group, drive to OD20K site w/ Test track employees. Inspect wells to see if boltcutters required. No locks.

1330 Meet Clinton from Nationview. Takes us to TS862 and SR859 sites.

1415 Pick up finalized dig permits for 4 sites w/ Clinton

1430 Drive to Conex to take inventory

1500 Leave base to pick up supplies

1700 End of Day

TMS
3-23-15

Location Holloman Date 3-25-15

Project / Client OD20K

TS/BE 75°

1355	sample OD20K-S009_E
1405	sample OD20K-S009_S
1415	sample OD20K-S009_W
1530	pack samples and drop at Fedex
1600	drop OD20K dig permit at Nation View
1730	End Day

TAS
3-25-15

Location Holloman AFB Date 3-26-15

Project / Client SR859

T. Schlossnagle, B. Evens 50°

0800	store for supplies
0830	Mob to HAFB
1000	H+S Meeting
1030	Mob to SR859 w/ Nation View escort Clinton Fuller
1135	sample SR859-1 18" bags
1145	sample SR859-1a step out
1155	sample SR859-2
1205	sample SR859-2a
1220	sample SR859-3
1230	sample SR859-3a
1240	sample SR859-4 moved due to visual conf. of clay target debris

Location HAFB Date 3-26-15

Project / Client SR859

TS/BE 60°

1250 sample SR859-4a

1320 sample SR859-5

1330 sample SR859-5a

1340 sample SR859-6

1350 sample SR859-6a

1405 sample SR859-7

1410 sample SR859-107 Dup

1420 sample SR859-7a

1435 sample SR859-8

1445 sample SR859-8a

1500 sample SR859-9

1510 sample SR859-9a

1530 sample SR859-10

Location HAFB Date 3-26-15

Project / Client SR859

TS/BE 60°

1530 sample SR859-10MS

1530 sample SR859-10MSD

1540 sample SR859-10a

1555 sample SR859-11

1605 sample SR859-11a

1625 sample SR859-12

1630 sample SR859-112 Dup

1650 sample SR859-EB1

1655 sample SR859-12a

1730 pack samples in ice and store in hotel room overnight

1800 End Day.

THS

3-26-15

Location HAFB Date 3-27-15

Project / Client SR859

T. Schlossnagle, B. Evens 50°

0700 Mob to HAFB

0730 H+S meeting

0800 Mob to SR859 w/ Escort

0815 sample SR859-13

0825 sample SR859-13a

0830 sample SR859-14

0840 sample SR859-14a

0850 sample SR859-15
moved to avoid road related gravel/ Asphalt

0900 sample SR859-15a

0915 sample SR859-16

0925 sample SR859-16a

0940 sample SR859-17

Location HAFB Date 3-27-15

Project / Client SR859

TS/BE 60°

0950 sample SR859-17a

1005 sample SR859-18

1015 sample SR859-18a

1030 sample SR859-19

1045 sample SR859-19a

1100 sample SR859-20 16" bgs

1120 sample SR859-20a 16" bgs

1200 Lunch

1530 pack samples in ice and ship from Fedex

1700 End Day.

THS
3-27-15

Location HAFB Date 3-28-15

Project / Client 0020k

TS/BE 80°

1230 sample 0020k-BKG-9

1235 sample 0020k-BKG-10
1235 sample 0020k-BKG-10MS
1235 sample 0020k-BKG-10MSD

1330 Pack samples in ice & store in hotel room

1400 End day

THS
3-28-15

Location HAFB Date 3-29-15

Project / Client TS862

TS/BE 75°

0830 H+S Meeting

0900 Mob to HAFB

1025 sample TS862-1 18" bgs

1035 sample TS862-1a step out

1045 sample TS862-2

1055 sample TS862-2a

1115 sample TS862-3
1115 sample TS862-3MS
1115 sample TS862-3MSD

1125 sample TS862-3a

1155 sample TS862-4
1200 sample TS862-104 Dup

1205 sample TS862-4a

1220 sample TS862-5

Location HAFB Date 3-29-15

Project / Client TS862

TS/BE 80°

1230 sample TS862-5a

1240 sample TS862-6

1250 sample TS862-6a

1300 sample TS862-EB1

1330 place samples in ice and store in hotel room

1400 End day

THS

3-29-15

Location Hollomon AFB Date 3-30-15

Project / Client TS862/XU853

TS/BE 65°

0800 Mob to HAFB

0830 Real Property office to get XU853 bldg documents for 1105, 1106, 1107, 1113

0900 H+S Meeting

0950 sample TS862-7

0955 sample TS862-107 Dup

1010 sample TS862-7a

1020 sample TS862-8

1030 sample TS862-8a

1040 sample TS862-9

1050 sample TS862-9a

1100 sample TS862-10 no step out

1110 sample TS862-11

Location HAFB Date 3-30-15

Project / Client TS862

TS/BE 70°

1120 sample TS862-11a

1130 sample TS862-12

1140 sample TS862-12a

1200 sample TS862-13

1215 sample TS862-13a

1230 sample TS862-14

1245 sample TS862-14a

1300 sample TS862-15

1315 sample TS862-15a

1330 sample TS862-16

1345 sample TS862-16a

1400 sample TS862-17

Location HAFB Date 3-30-15

Project / Client TS862

TS/BE 80°

1415 sample TS862-17a

1430 sample TS862-18

1445 sample TS862-18a

1500 sample TS862-19

1515 sample TS862-19a

1530 sample TS862-20

1545 sample TS862-20a 16" bags

1630 pack samples in ice and store in hotel room

1700 End day.

THS
3-30-15

APPENDIX B
Raw Laboratory Data

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Southeast ACCUTEST LABORATORIES

04/09/15

Technical Report for

FPM Remediations

HM-AZ PBR Holloman AFB; Alamogordo, NM

1029-13-01-H-X0853

Accutest Job Number: FA23189

Sampling Dates: 03/26/15 - 03/27/15

Report to:

FPM Remediations
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Rome, NY 13441
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ATTN: Ivana Raicevic

Total number of pages in report: **1004**

NELAP ACCREDITED TNI LABORATORY

Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Program and/or state specific certification programs as applicable.

Norm Farmer
Technical Director

Client Service contact: Jean Dent-Smith 407-425-6700

Certifications: FL (E83510), LA (03051), KS (E-10327), IA (366), IL (200063), NC (573), NJ (FL002), SC (96038001) DoD ELAP (L-A-B L2229), CA (2937), TX (T104704404), PA (68-03573), VA (460177), AK, AR, GA, KY, MA, NV, OK, UT, WA

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Accutest Laboratories

Sample Summary

FPM Remediations

Job No: FA23189

HM-AZ PBR Holloman AFB; Alamogordo, NM
Project No: 1029-13-01-H-X0853

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
FA23189-1	03/26/15	11:35	TS	03/28/15	SO	Soil	SR859-1
FA23189-2	03/26/15	11:45	TS	03/28/15	SO	Soil	SR859-1A
FA23189-3	03/26/15	11:55	TS	03/28/15	SO	Soil	SR859-2
FA23189-4	03/26/15	12:05	TS	03/28/15	SO	Soil	SR859-2A
FA23189-5	03/26/15	12:20	TS	03/28/15	SO	Soil	SR859-3
FA23189-6	03/26/15	12:30	TS	03/28/15	SO	Soil	SR859-3A
FA23189-7	03/26/15	12:40	TS	03/28/15	SO	Soil	SR859-4
FA23189-8	03/26/15	12:50	TS	03/28/15	SO	Soil	SR859-4A
FA23189-9	03/26/15	13:20	TS	03/28/15	SO	Soil	SR859-5
FA23189-10	03/26/15	13:30	TS	03/28/15	SO	Soil	SR859-5A
FA23189-11	03/26/15	13:40	TS	03/28/15	SO	Soil	SR859-6
FA23189-12	03/26/15	13:50	TS	03/28/15	SO	Soil	SR859-6A
FA23189-13	03/26/15	14:05	TS	03/28/15	SO	Soil	SR859-7

Soil samples reported on a dry weight basis unless otherwise indicated on result page.

Sample Summary
(continued)

FPM Remediations

Job No: FA23189

HM-AZ PBR Holloman AFB; Alamogordo, NM
Project No: 1029-13-01-H-X0853

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
FA23189-14	03/26/15	14:10	TS	03/28/15	SO	Soil	SR859-107
FA23189-15	03/26/15	14:20	TS	03/28/15	SO	Soil	SR859-7A
FA23189-16	03/26/15	14:35	TS	03/28/15	SO	Soil	SR859-8
FA23189-17	03/26/15	14:45	TS	03/28/15	SO	Soil	SR859-8A
FA23189-18	03/26/15	15:00	TS	03/28/15	SO	Soil	SR859-9
FA23189-19	03/26/15	15:10	TS	03/28/15	SO	Soil	SR859-9A
FA23189-20	03/26/15	15:30	TS	03/28/15	SO	Soil	SR859-10
FA23189-20D	03/26/15	15:30	TS	03/28/15	SO	Soil Dup/MSD	SR859-10
FA23189-20S	03/26/15	15:30	TS	03/28/15	SO	Soil Matrix Spike	SR859-10
FA23189-21	03/26/15	15:40	TS	03/28/15	SO	Soil	SR859-10A
FA23189-22	03/26/15	15:55	TS	03/28/15	SO	Soil	SR859-11
FA23189-23	03/26/15	16:05	TS	03/28/15	SO	Soil	SR859-11A
FA23189-24	03/26/15	16:25	TS	03/28/15	SO	Soil	SR859-12

Soil samples reported on a dry weight basis unless otherwise indicated on result page.

Sample Summary
(continued)

FPM Remediations

Job No: FA23189

HM-AZ PBR Holloman AFB; Alamogordo, NM
Project No: 1029-13-01-H-X0853

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
FA23189-25	03/26/15	16:30	TS	03/28/15	SO	Soil	SR859-112
FA23189-26	03/26/15	16:55	TS	03/28/15	SO	Soil	SR859-12A
FA23189-27	03/27/15	08:15	TS	03/28/15	SO	Soil	SR859-13
FA23189-28	03/27/15	08:25	TS	03/28/15	SO	Soil	SR859-13A
FA23189-29	03/27/15	08:30	TS	03/28/15	SO	Soil	SR859-14
FA23189-30	03/27/15	08:40	TS	03/28/15	SO	Soil	SR859-14A
FA23189-31	03/27/15	08:50	TS	03/28/15	SO	Soil	SR859-15
FA23189-32	03/27/15	09:00	TS	03/28/15	SO	Soil	SR859-15A
FA23189-33	03/27/15	09:15	TS	03/28/15	SO	Soil	SR859-16
FA23189-34	03/27/15	09:25	TS	03/28/15	SO	Soil	SR859-16A
FA23189-35	03/27/15	09:40	TS	03/28/15	SO	Soil	SR859-17
FA23189-36	03/27/15	09:50	TS	03/28/15	SO	Soil	SR859-17A
FA23189-37	03/27/15	10:05	TS	03/28/15	SO	Soil	SR859-18

Soil samples reported on a dry weight basis unless otherwise indicated on result page.

Sample Summary
(continued)

FPM Remediations

Job No: FA23189

HM-AZ PBR Holloman AFB; Alamogordo, NM
Project No: 1029-13-01-H-X0853

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
FA23189-38	03/27/15	10:15	TS	03/28/15	SO	Soil	SR859-18A
FA23189-39	03/27/15	10:30	TS	03/28/15	SO	Soil	SR859-19
FA23189-40	03/27/15	10:45	TS	03/28/15	SO	Soil	SR859-19A
FA23189-41	03/27/15	11:00	TS	03/28/15	SO	Soil	SR859-20
FA23189-42	03/27/15	11:20	TS	03/28/15	SO	Soil	SR859-20A
FA23189-43	03/26/15	16:50	TS	03/28/15	AQ	Equipment Blank	SR859-EB1

Soil samples reported on a dry weight basis unless otherwise indicated on result page.

SAMPLE DELIVERY GROUP CASE NARRATIVE

Client: FPM Remediations **Job No:** FA23189

Site: HM-AZ PBR Holloman AFB; Alamogordo, NM **Report Date:** 4/8/2015 10:07:18 PM

43 Sample(s) were collected on/ between 03/26/2015 and 03/27/2015 and were received at Accutest SE on 03/28/2015 properly preserved, at 2 Deg. C and intact. These Samples received an Accutest job number of FA23189. A listing of the Laboratory Sample ID, Client Sample ID and dates of collection are presented in the Results Summary Section of this report.

Except as noted below, all method specified calibrations and quality control performance criteria were met for this job. For more information, please refer to QC summary pages.

Extractables by GCMS By Method SW846 8270D

Matrix: SO **Batch ID:** OP55512

All samples were extracted within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) FA23106-3MS, FA23106-3MSD were used as the QC samples indicated.

Matrix: SO **Batch ID:** OP55531

All samples were extracted within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) FA23189-20MS, FA23189-20MSD were used as the QC samples indicated.

Extractables by GCMS By Method SW846 8270D BY SIM

Matrix: AQ **Batch ID:** OP55540

All samples were extracted within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) FA23189-43MS, FA23189-43MSD were used as the QC samples indicated.

Metals By Method SW846 6010C

Matrix: AQ **Batch ID:** MP28731

All samples were digested within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) FA23021-5DUP, FA23021-5MS, FA23021-5MSD, FA23021-5PS, FA23021-5SDL were used as the QC samples for metals.

RPD(s) for Serial Dilution for Arsenic, Zinc are outside control limits for sample MP28731-SD1. Percent difference acceptable due to low initial sample concentration (< 50 times IDL).

Matrix: SO **Batch ID:** MP28734

All samples were digested within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) FA23189-20DUP, FA23189-20MS, FA23189-20MSD, FA23189-20PS, FA23189-20SDL were used as the QC samples for metals.

Matrix Spike/ Matrix Spike Duplicate Recovery(s) for Antimony are outside control limits. Spike recovery indicates possible matrix interference and/or sample non-homogeneity.

RPD(s) for MSD for Antimony are outside control limits for sample MP28734-S2. High RPD due to possible sample non-homogeneity.

Metals By Method SW846 6010C

Matrix: SO **Batch ID:** MP28734

MP28734-SD1 for Copper: Serial dilution indicates possible matrix interference.

RPD(s) for Serial Dilution for Lead, Copper are outside control limits for sample MP28734-SD1. Percent difference acceptable due to low initial sample concentration (< 50 times IDL).

FA23189-9 for Lead: Elevated reporting limit(s) due to matrix interference.

FA23189-20 for Antimony: Elevated reporting limit(s) due to matrix interference.

FA23189-9 for Zinc: Elevated reporting limit(s) due to matrix interference.

FA23189-9 for Antimony: Elevated reporting limit(s) due to matrix interference.

FA23189-7 for Zinc: Elevated reporting limit(s) due to matrix interference.

FA23189-7 for Lead: Elevated reporting limit(s) due to matrix interference.

FA23189-5 for Zinc: Elevated reporting limit(s) due to matrix interference.

FA23189-5 for Antimony: Elevated reporting limit(s) due to matrix interference.

FA23189-3 for Zinc: Elevated reporting limit(s) due to matrix interference.

FA23189-3 for Lead: Elevated reporting limit(s) due to matrix interference.

FA23189-3 for Antimony: Elevated reporting limit(s) due to matrix interference.

FA23189-1 for Zinc: Elevated reporting limit(s) due to matrix interference.

FA23189-1 for Lead: Elevated reporting limit(s) due to matrix interference.

FA23189-1 for Antimony: Elevated reporting limit(s) due to matrix interference.

FA23189-20 for Lead: Elevated reporting limit(s) due to matrix interference.

FA23189-11 for Antimony: Elevated reporting limit(s) due to matrix interference.

FA23189-7 for Antimony: Elevated reporting limit(s) due to matrix interference.

FA23189-20 for Zinc: Elevated reporting limit(s) due to matrix interference.

FA23189-27 for Lead: Elevated reporting limit(s) due to matrix interference.

FA23189-25 for Lead: Elevated reporting limit(s) due to matrix interference.

FA23189-27 for Antimony: Elevated reporting limit(s) due to matrix interference.

FA23189-29 for Antimony: Elevated reporting limit(s) due to matrix interference.

FA23189-29 for Lead: Elevated reporting limit(s) due to matrix interference.

FA23189-29 for Zinc: Elevated reporting limit(s) due to matrix interference.

FA23189-31 for Antimony: Elevated reporting limit(s) due to matrix interference.

FA23189-31 for Lead: Elevated reporting limit(s) due to matrix interference.

FA23189-31 for Zinc: Elevated reporting limit(s) due to matrix interference.

FA23189-33 for Lead: Elevated reporting limit(s) due to matrix interference.

FA23189-11 for Lead: Elevated reporting limit(s) due to matrix interference.

FA23189-25 for Antimony: Elevated reporting limit(s) due to matrix interference.

FA23189-5 for Lead: Elevated reporting limit(s) due to matrix interference.

FA23189-33 for Zinc: Elevated reporting limit(s) due to matrix interference.

FA23189-35 for Antimony: Elevated reporting limit(s) due to matrix interference.

FA23189-35 for Lead: Elevated reporting limit(s) due to matrix interference.

FA23189-35 for Zinc: Elevated reporting limit(s) due to matrix interference.

FA23189-37 for Antimony: Elevated reporting limit(s) due to matrix interference.

FA23189-37 for Lead: Elevated reporting limit(s) due to matrix interference.

FA23189-37 for Zinc: Elevated reporting limit(s) due to matrix interference.

FA23189-33 for Antimony: Elevated reporting limit(s) due to matrix interference.

FA23189-16 for Lead: Elevated reporting limit(s) due to matrix interference.

FA23189-11 for Zinc: Elevated reporting limit(s) due to matrix interference.

FA23189-13 for Antimony: Elevated reporting limit(s) due to matrix interference.

FA23189-13 for Lead: Elevated reporting limit(s) due to matrix interference.

FA23189-13 for Zinc: Elevated reporting limit(s) due to matrix interference.

FA23189-14 for Antimony: Elevated reporting limit(s) due to matrix interference.

FA23189-27 for Zinc: Elevated reporting limit(s) due to matrix interference.

FA23189-14 for Lead: Elevated reporting limit(s) due to matrix interference.

FA23189-25 for Zinc: Elevated reporting limit(s) due to matrix interference.

FA23189-16 for Antimony: Elevated reporting limit(s) due to matrix interference.

Metals By Method SW846 6010C

Matrix: SO **Batch ID:** MP28734

FA23189-24 for Zinc: Elevated reporting limit(s) due to matrix interference.

FA23189-16 for Zinc: Elevated reporting limit(s) due to matrix interference.

FA23189-18 for Antimony: Elevated reporting limit(s) due to matrix interference.

FA23189-18 for Lead: Elevated reporting limit(s) due to matrix interference.

FA23189-18 for Zinc: Elevated reporting limit(s) due to matrix interference.

FA23189-22 for Antimony: Elevated reporting limit(s) due to matrix interference.

FA23189-22 for Lead: Elevated reporting limit(s) due to matrix interference.

FA23189-22 for Zinc: Elevated reporting limit(s) due to matrix interference.

FA23189-24 for Antimony: Elevated reporting limit(s) due to matrix interference.

FA23189-24 for Lead: Elevated reporting limit(s) due to matrix interference.

FA23189-14 for Zinc: Elevated reporting limit(s) due to matrix interference.

Matrix: SO **Batch ID:** MP28752

All samples were digested within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) FA23258-5DUP, FA23258-5MS, FA23258-5MSD, FA23258-5PS, FA23258-5SDL were used as the QC samples for metals.

Matrix Spike/ Matrix Spike Duplicate Recovery(s) for Antimony are outside control limits. Spike recovery indicates possible matrix interference and/or sample non-homogeneity.

RPD(s) for Duplicate for Arsenic are outside control limits for sample MP28752-D1. RPD acceptable due to low duplicate and sample concentrations.

RPD(s) for Serial Dilution for Arsenic, Lead are outside control limits for sample MP28752-SD1. Percent difference acceptable due to low initial sample concentration (< 50 times IDL).

FA23189-39 for Copper: Sample dilution required due to difficult matrix.

FA23189-39 for Lead: Elevated reporting limit(s) due to matrix interference.

FA23189-41 for Copper: Sample dilution required due to difficult matrix.

FA23189-41 for Antimony: Sample dilution required due to difficult matrix.

FA23189-39 for Arsenic: Sample dilution required due to difficult matrix.

FA23189-39 for Antimony: Sample dilution required due to difficult matrix.

FA23189-41 for Lead: Elevated reporting limit(s) due to matrix interference.

FA23189-41 for Arsenic: Sample dilution required due to difficult matrix.

Wet Chemistry By Method SM19 2540G

Matrix: SO **Batch ID:** GN65714

Sample(s) FA23046-5DUP were used as the QC samples for Solids, Percent.

Matrix: SO **Batch ID:** GN65719

Sample(s) FA23171-3DUP were used as the QC samples for Solids, Percent.

Matrix: SO **Batch ID:** GN65757

Sample(s) FA23189-2DUP, FA23189-4DUP were used as the QC samples for Solids, Percent.

Matrix: SO **Batch ID:** GN65758

Sample(s) FA23189-14DUP, FA23189-15DUP were used as the QC samples for Solids, Percent.

Matrix: SO **Batch ID:** GN65759

Sample(s) FA23189-34DUP were used as the QC samples for Solids, Percent.

Accutest Laboratories Southeast (ALSE) certifies that this report meets the project requirements for analytical data produced for the samples as received at ALSE and as stated on the COC. ALSE certifies that the data meets the Data Quality Objectives for precision, accuracy and completeness as specified in the ALSE Quality Manual except as noted above. This report is to be used in its entirety. ALSE is not responsible for any assumptions of data quality if partial data packages are used.

Narrative prepared by:

_____ Date: April 8, 2015

Kim Benham, Client Services (signature on file)

Manual Integration Summary

Lab Sample ID	Analysis Type	File ID	Manual Integrations
FA23189-20	MSSEMI	X039313.D	Indeno(1,2,3-cd)pyrene
OP55512-BS	MSSEMI	X039274.D	Caprolactam
OP55512-MS	MSSEMI	U049971.D	Caprolactam
OP55512-MSD	MSSEMI	X039292.D	Benzoic Acid, Caprolactam
OP55531-BS	MSSEMI	X039305.D	Caprolactam
OP55531-MS	MSSEMI	X039319.D	Benzoic Acid, Caprolactam
OP55531-MSD	MSSEMI	X039320.D	Benzoic Acid, Caprolactam
ST809-IC809	MSSEMI	T017698.D	Pentachlorophenol
ST809-IC809	MSSEMI	T017704.D	Benzo(k)fluoranthene
SU2285-IC2285	MSSEMI	U049900.D	Benzoic Acid
SU2285-IC2285	MSSEMI	U049902.D	Benzoic Acid, Caprolactam
SU2285-IC2285	MSSEMI	U049903.D	Benzoic Acid, Caprolactam
SU2285-IC2285	MSSEMI	U049904.D	Benzoic Acid, Caprolactam
SU2285-ICC2285	MSSEMI	U049901.D	Benzoic Acid
SU2285-ICV2285	MSSEMI	U049905.D	Caprolactam
SU2287-CC2285	MSSEMI	U049953.D	Benzoic Acid
SX1826-IC1826	MSSEMI	X039249.D	Benzo(k)fluoranthene, Benzoic Acid
SX1826-IC1826	MSSEMI	X039250.D	Benzoic Acid
SX1826-IC1826	MSSEMI	X039251.D	Benzoic Acid
SX1826-IC1826	MSSEMI	X039253.D	Benzoic Acid, Caprolactam
SX1826-IC1826	MSSEMI	X039254.D	Benzoic Acid, Caprolactam
SX1826-IC1826	MSSEMI	X039255.D	Benzoic Acid, Caprolactam
SX1826-ICC1826	MSSEMI	X039252.D	Benzoic Acid
SX1826-ICV1826	MSSEMI	X039256.D	Caprolactam
SX1827-CC1826	MSSEMI	X039273.D	Benzoic Acid
SX1828-CC1826	MSSEMI	X039303.D	Benzoic Acid

26 Manual Integrations were found for FA23189

Summary of Hits

Job Number: FA23189
Account: FPM Remediations
Project: HM-AZ PBR Holloman AFB; Alamogordo, NM
Collected: 03/26/15 thru 03/27/15

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Lab Sample ID Analyte	Client Sample ID	Result/ Qual	LOQ	LOD	Units	Method
FA23189-1	**SR859-1**					
Arsenic		1.8	0.52	0.26	mg/kg	SW846 6010C
Copper		2.2	1.3	0.10	mg/kg	SW846 6010C
Lead [a]		19.4	10	2.1	mg/kg	SW846 6010C
Zinc [a]		8.4 J	10	2.6	mg/kg	SW846 6010C
FA23189-2	**SR859-1A**					
No hits reported in this sample.						
FA23189-3	**SR859-2**					
Arsenic		1.4	0.52	0.26	mg/kg	SW846 6010C
Copper		3.2	1.3	0.10	mg/kg	SW846 6010C
Lead [a]		33.4	10	2.1	mg/kg	SW846 6010C
Zinc [a]		9.9 J	10	2.6	mg/kg	SW846 6010C
FA23189-4	**SR859-2A**					
No hits reported in this sample.						
FA23189-5	**SR859-3**					
Arsenic		2.5	0.49	0.24	mg/kg	SW846 6010C
Copper		5.1	1.2	0.097	mg/kg	SW846 6010C
Lead [a]		0.68 J	9.7	1.9	mg/kg	SW846 6010C
Zinc [a]		13.2	9.7	2.4	mg/kg	SW846 6010C
FA23189-6	**SR859-3A**					
No hits reported in this sample.						
FA23189-7	**SR859-4**					
Arsenic		3.9	0.52	0.26	mg/kg	SW846 6010C
Copper		10.3	1.3	0.10	mg/kg	SW846 6010C
Lead [a]		4.5 J	10	2.1	mg/kg	SW846 6010C
Zinc [a]		32.7	10	2.6	mg/kg	SW846 6010C
FA23189-8	**SR859-4A**					
No hits reported in this sample.						

Summary of Hits

Job Number: FA23189
Account: FPM Remediations
Project: HM-AZ PBR Holloman AFB; Alamogordo, NM
Collected: 03/26/15 thru 03/27/15

Lab Sample ID Analyte	Client Sample ID	Result/ Qual	LOQ	LOD	Units	Method
FA23189-9	**SR859-5**					
Arsenic		2.5	0.53	0.27	mg/kg	SW846 6010C
Copper		5.7	1.3	0.11	mg/kg	SW846 6010C
Lead [a]		3.3 J	11	2.1	mg/kg	SW846 6010C
Zinc [a]		15.7	11	2.7	mg/kg	SW846 6010C
FA23189-10	**SR859-5A**					
No hits reported in this sample.						
FA23189-11	**SR859-6**					
Arsenic		2.1	0.51	0.25	mg/kg	SW846 6010C
Copper		4.7	1.3	0.10	mg/kg	SW846 6010C
Lead [a]		2.3 J	10	2.0	mg/kg	SW846 6010C
Zinc [a]		14.1	10	2.5	mg/kg	SW846 6010C
FA23189-12	**SR859-6A**					
No hits reported in this sample.						
FA23189-13	**SR859-7**					
Arsenic		1.4	0.58	0.29	mg/kg	SW846 6010C
Copper		3.8	1.5	0.12	mg/kg	SW846 6010C
Lead [a]		6.1 J	12	2.3	mg/kg	SW846 6010C
Zinc [a]		11.9 J	12	2.9	mg/kg	SW846 6010C
FA23189-14	**SR859-107**					
Arsenic		1.2	0.53	0.27	mg/kg	SW846 6010C
Copper		3.2	1.3	0.11	mg/kg	SW846 6010C
Zinc [a]		6.9 J	11	2.7	mg/kg	SW846 6010C
FA23189-15	**SR859-7A**					
No hits reported in this sample.						
FA23189-16	**SR859-8**					
Arsenic		1.6	0.51	0.26	mg/kg	SW846 6010C
Copper		3.5	1.3	0.10	mg/kg	SW846 6010C
Lead [a]		2.4 J	10	2.1	mg/kg	SW846 6010C
Zinc [a]		10.2	10	2.6	mg/kg	SW846 6010C

Summary of Hits

Job Number: FA23189
Account: FPM Remediations
Project: HM-AZ PBR Holloman AFB; Alamogordo, NM
Collected: 03/26/15 thru 03/27/15

Lab Sample ID Analyte	Client Sample ID	Result/ Qual	LOQ	LOD	Units	Method
FA23189-17	**SR859-8A**					
No hits reported in this sample.						
FA23189-18	**SR859-9**					
Arsenic		1.2	0.57	0.28	mg/kg	SW846 6010C
Copper		2.9	1.4	0.11	mg/kg	SW846 6010C
Lead [a]		1.1 J	11	2.3	mg/kg	SW846 6010C
Zinc [a]		9.0 J	11	2.8	mg/kg	SW846 6010C
FA23189-19	**SR859-9A**					
No hits reported in this sample.						
FA23189-20	**SR859-10**					
Benzo(a)anthracene		32.9 J	210	41	ug/kg	SW846 8270D
Benzo(a)pyrene		37.1 J	210	41	ug/kg	SW846 8270D
Benzo(b)fluoranthene		43.6 J	210	41	ug/kg	SW846 8270D
Benzo(g,h,i)perylene		30.9 J	210	41	ug/kg	SW846 8270D
Benzo(k)fluoranthene		30.6 J	210	41	ug/kg	SW846 8270D
Chrysene		41.3 J	210	41	ug/kg	SW846 8270D
Fluoranthene		38.3 J	210	41	ug/kg	SW846 8270D
Indeno(1,2,3-cd)pyrene		28.4 J	210	41	ug/kg	SW846 8270D
Pyrene		39.8 J	210	41	ug/kg	SW846 8270D
Arsenic		2.3	0.51	0.26	mg/kg	SW846 6010C
Copper		4.5	1.3	0.10	mg/kg	SW846 6010C
Lead [a]		1.7 J	10	2.0	mg/kg	SW846 6010C
Zinc [a]		17.6	10	2.6	mg/kg	SW846 6010C
FA23189-21	**SR859-10A**					
No hits reported in this sample.						
FA23189-22	**SR859-11**					
Arsenic		1.9	0.50	0.25	mg/kg	SW846 6010C
Copper		3.9	1.3	0.10	mg/kg	SW846 6010C
Lead [a]		1.8 J	10	2.0	mg/kg	SW846 6010C
Zinc [a]		14.8	10	2.5	mg/kg	SW846 6010C

Summary of Hits

Job Number: FA23189
Account: FPM Remediations
Project: HM-AZ PBR Holloman AFB; Alamogordo, NM
Collected: 03/26/15 thru 03/27/15

Lab Sample ID Analyte	Client Sample ID	Result/ Qual	LOQ	LOD	Units	Method
FA23189-23	**SR859-11A**					
No hits reported in this sample.						
FA23189-24	**SR859-12**					
Arsenic		2.3	0.42	0.21	mg/kg	SW846 6010C
Copper		7.2	1.0	0.084	mg/kg	SW846 6010C
Lead [a]		5.1 J	8.4	1.7	mg/kg	SW846 6010C
Zinc [a]		29.2	8.4	2.1	mg/kg	SW846 6010C
FA23189-25	**SR859-112**					
Arsenic		2.6	0.53	0.26	mg/kg	SW846 6010C
Copper		9.7	1.3	0.11	mg/kg	SW846 6010C
Lead [a]		9.5	4.2	0.84	mg/kg	SW846 6010C
Zinc [a]		37.6	4.2	1.1	mg/kg	SW846 6010C
FA23189-26	**SR859-12A**					
No hits reported in this sample.						
FA23189-27	**SR859-13**					
Arsenic		3.1	0.49	0.25	mg/kg	SW846 6010C
Copper		8.2	1.2	0.098	mg/kg	SW846 6010C
Lead [a]		5.9 J	9.8	2.0	mg/kg	SW846 6010C
Zinc [a]		27.3	9.8	2.5	mg/kg	SW846 6010C
FA23189-28	**SR859-13A**					
No hits reported in this sample.						
FA23189-29	**SR859-14**					
Arsenic		1.4	0.57	0.28	mg/kg	SW846 6010C
Copper		2.8	1.4	0.11	mg/kg	SW846 6010C
Zinc [a]		8.3 J	11	2.8	mg/kg	SW846 6010C
FA23189-30	**SR859-14A**					
No hits reported in this sample.						

Summary of Hits

Job Number: FA23189
Account: FPM Remediations
Project: HM-AZ PBR Holloman AFB; Alamogordo, NM
Collected: 03/26/15 thru 03/27/15

Lab Sample ID Analyte	Client Sample ID	Result/ Qual	LOQ	LOD	Units	Method
FA23189-31	**SR859-15**					
Arsenic		1.1	0.46	0.23	mg/kg	SW846 6010C
Copper		1.9	1.1	0.091	mg/kg	SW846 6010C
Zinc [a]		5.0 J	9.1	2.3	mg/kg	SW846 6010C
FA23189-32	**SR859-15A**					
No hits reported in this sample.						
FA23189-33	**SR859-16**					
Arsenic		1.6	0.56	0.28	mg/kg	SW846 6010C
Copper		4.1	1.4	0.11	mg/kg	SW846 6010C
Lead [a]		2.1 J	11	2.2	mg/kg	SW846 6010C
Zinc [a]		13.9	11	2.8	mg/kg	SW846 6010C
FA23189-34	**SR859-16A**					
No hits reported in this sample.						
FA23189-35	**SR859-17**					
Arsenic		3.9	0.58	0.29	mg/kg	SW846 6010C
Copper		4.4	1.4	0.12	mg/kg	SW846 6010C
Zinc [a]		10.0 J	12	2.9	mg/kg	SW846 6010C
FA23189-36	**SR859-17A**					
No hits reported in this sample.						
FA23189-37	**SR859-18**					
Arsenic		1.8	0.57	0.28	mg/kg	SW846 6010C
Copper		2.9	1.4	0.11	mg/kg	SW846 6010C
Zinc [a]		8.0 J	11	2.8	mg/kg	SW846 6010C
FA23189-38	**SR859-18A**					
No hits reported in this sample.						
FA23189-39	**SR859-19**					
Antimony [b]		1.2 J	11	2.8	mg/kg	SW846 6010C
Arsenic [b]		1.5 J	5.6	2.8	mg/kg	SW846 6010C

Summary of Hits

Job Number: FA23189
Account: FPM Remediations
Project: HM-AZ PBR Holloman AFB; Alamogordo, NM
Collected: 03/26/15 thru 03/27/15

Lab Sample ID Analyte	Client Sample ID	Result/ Qual	LOQ	LOD	Units	Method
Copper [b]		2.2 J	14	1.1	mg/kg	SW846 6010C
Lead [a]		1.5 J	11	2.2	mg/kg	SW846 6010C
FA23189-40	**SR859-19A**					
No hits reported in this sample.						
FA23189-41	**SR859-20**					
Antimony [b]		0.76 J	10	2.6	mg/kg	SW846 6010C
Arsenic [b]		1.9 J	5.2	2.6	mg/kg	SW846 6010C
Copper [b]		2.6 J	13	1.0	mg/kg	SW846 6010C
Lead [a]		2.2 J	10	2.1	mg/kg	SW846 6010C
FA23189-42	**SR859-20A**					
No hits reported in this sample.						
FA23189-43	**SR859-EB1**					
Copper		5.5 J	25	2.0	ug/l	SW846 6010C
Zinc		9.8 J	20	5.0	ug/l	SW846 6010C

(a) Elevated reporting limit(s) due to matrix interference.
(b) Sample dilution required due to difficult matrix.

Southeast ACCUTEST LABORATORIES

Sample Results

Report of Analysis

Accutest Laboratories

Report of Analysis

Client Sample ID:	SR859-1		
Lab Sample ID:	FA23189-1	**Date Sampled:**	03/26/15
Matrix:	SO - Soil	**Date Received:**	03/28/15
Method:	SW846 8270D SW846 3550C	**Percent Solids:**	86.3
Project:	HM-AZ PBR Holloman AFB; Alamogordo, NM		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	X039293.D	1	03/31/15	MV	03/30/15	OP55512	SX1827
Run #2							

	Initial Weight	Final Volume
Run #1	30.4 g	1.0 ml
Run #2		

BN PAH List

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
83-32-9	Acenaphthene	38 U	190	38	19	ug/kg	
208-96-8	Acenaphthylene	38 U	190	38	19	ug/kg	
120-12-7	Anthracene	38 U	190	38	19	ug/kg	
56-55-3	Benzo(a)anthracene	38 U	190	38	19	ug/kg	
50-32-8	Benzo(a)pyrene	38 U	190	38	19	ug/kg	
205-99-2	Benzo(b)fluoranthene	38 U	190	38	19	ug/kg	
191-24-2	Benzo(g,h,i)perylene	38 U	190	38	19	ug/kg	
207-08-9	Benzo(k)fluoranthene	38 U	190	38	19	ug/kg	
218-01-9	Chrysene	38 U	190	38	19	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	38 U	190	38	19	ug/kg	
206-44-0	Fluoranthene	38 U	190	38	19	ug/kg	
86-73-7	Fluorene	38 U	190	38	19	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	38 U	190	38	19	ug/kg	
90-12-0	1-Methylnaphthalene	38 U	190	38	19	ug/kg	
91-57-6	2-Methylnaphthalene	38 U	190	38	19	ug/kg	
91-20-3	Naphthalene	38 U	190	38	19	ug/kg	
85-01-8	Phenanthrene	38 U	190	38	19	ug/kg	
129-00-0	Pyrene	38 U	190	38	19	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	70%		40-105%
321-60-8	2-Fluorobiphenyl	72%		43-107%
1718-51-0	Terphenyl-d14	92%		45-119%

U = Not detected LOD = Limit of Detection J = Indicates an estimated value
LOQ = Limit of Quantitation DL = Detection Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SR859-1		
Lab Sample ID:	FA23189-1	**Date Sampled:**	03/26/15
Matrix:	SO - Soil	**Date Received:**	03/28/15
		Percent Solids:	86.3
Project:	HM-AZ PBR Holloman AFB; Alamogordo, NM		

Metals Analysis

Analyte	Result	LOQ	LOD	DL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Antimony [a]	2.6 U	10	2.6	0.67	mg/kg	10	03/31/15	04/02/15	LM	SW846 6010C [2]	SW846 3050B [3]
Arsenic	1.8	0.52	0.26	0.10	mg/kg	1	03/31/15	04/01/15	LM	SW846 6010C [1]	SW846 3050B [3]
Copper	2.2	1.3	0.10	0.052	mg/kg	1	03/31/15	04/01/15	LM	SW846 6010C [1]	SW846 3050B [3]
Lead [a]	19.4	10	2.1	0.52	mg/kg	10	03/31/15	04/02/15	LM	SW846 6010C [2]	SW846 3050B [3]
Zinc [a]	8.4 J	10	2.6	1.6	mg/kg	10	03/31/15	04/02/15	LM	SW846 6010C [2]	SW846 3050B [3]

(1) Instrument QC Batch: MA12310
(2) Instrument QC Batch: MA12315
(3) Prep QC Batch: MP28734

(a) Elevated reporting limit(s) due to matrix interference.

LOQ = Limit of Quantitation
LOD = Limit of Detection
DL = Detection Limit
U = Indicates a result < LOD
J = Indicates a result > = DL (MDL) but < LOQ

Report of Analysis

Client Sample ID:	SR859-1A		
Lab Sample ID:	FA23189-2	**Date Sampled:**	03/26/15
Matrix:	SO - Soil	**Date Received:**	03/28/15
		Percent Solids:	76.8
Project:	HM-AZ PBR Holloman AFB; Alamogordo, NM		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Solids, Percent	76.8		%	1	04/01/15 14:49	LE	SM19 2540G

RL = Reporting Limit

Accutest Laboratories

Report of Analysis

Client Sample ID:	SR859-2		
Lab Sample ID:	FA23189-3	**Date Sampled:**	03/26/15
Matrix:	SO - Soil	**Date Received:**	03/28/15
Method:	SW846 8270D SW846 3550C	**Percent Solids:**	85.7
Project:	HM-AZ PBR Holloman AFB; Alamogordo, NM		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	X039294.D	1	03/31/15	MV	03/30/15	OP55512	SX1827
Run #2							

	Initial Weight	Final Volume
Run #1	29.9 g	1.0 ml
Run #2		

BN PAH List

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
83-32-9	Acenaphthene	39 U	200	39	20	ug/kg	
208-96-8	Acenaphthylene	39 U	200	39	20	ug/kg	
120-12-7	Anthracene	39 U	200	39	20	ug/kg	
56-55-3	Benzo(a)anthracene	39 U	200	39	20	ug/kg	
50-32-8	Benzo(a)pyrene	39 U	200	39	20	ug/kg	
205-99-2	Benzo(b)fluoranthene	39 U	200	39	20	ug/kg	
191-24-2	Benzo(g,h,i)perylene	39 U	200	39	20	ug/kg	
207-08-9	Benzo(k)fluoranthene	39 U	200	39	20	ug/kg	
218-01-9	Chrysene	39 U	200	39	20	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	39 U	200	39	20	ug/kg	
206-44-0	Fluoranthene	39 U	200	39	20	ug/kg	
86-73-7	Fluorene	39 U	200	39	20	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	39 U	200	39	20	ug/kg	
90-12-0	1-Methylnaphthalene	39 U	200	39	20	ug/kg	
91-57-6	2-Methylnaphthalene	39 U	200	39	20	ug/kg	
91-20-3	Naphthalene	39 U	200	39	20	ug/kg	
85-01-8	Phenanthrene	39 U	200	39	20	ug/kg	
129-00-0	Pyrene	39 U	200	39	20	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	76%		40-105%
321-60-8	2-Fluorobiphenyl	80%		43-107%
1718-51-0	Terphenyl-d14	101%		45-119%

U = Not detected LOD = Limit of Detection J = Indicates an estimated value
LOQ = Limit of Quantitation DL = Detection Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SR859-2		
Lab Sample ID:	FA23189-3	**Date Sampled:**	03/26/15
Matrix:	SO - Soil	**Date Received:**	03/28/15
		Percent Solids:	85.7
Project:	HM-AZ PBR Holloman AFB; Alamogordo, NM		

Metals Analysis

Analyte	Result	LOQ	LOD	DL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Antimony [a]	2.6 U	10	2.6	0.68	mg/kg	10	03/31/15	04/02/15	LM	SW846 6010C [2]	SW846 3050B [3]
Arsenic	1.4	0.52	0.26	0.10	mg/kg	1	03/31/15	04/01/15	LM	SW846 6010C [1]	SW846 3050B [3]
Copper	3.2	1.3	0.10	0.052	mg/kg	1	03/31/15	04/01/15	LM	SW846 6010C [1]	SW846 3050B [3]
Lead [a]	33.4	10	2.1	0.52	mg/kg	10	03/31/15	04/02/15	LM	SW846 6010C [2]	SW846 3050B [3]
Zinc [a]	9.9 J	10	2.6	1.6	mg/kg	10	03/31/15	04/02/15	LM	SW846 6010C [2]	SW846 3050B [3]

(1) Instrument QC Batch: MA12310
(2) Instrument QC Batch: MA12315
(3) Prep QC Batch: MP28734

(a) Elevated reporting limit(s) due to matrix interference.

LOQ = Limit of Quantitation DL = Detection Limit U = Indicates a result < LOD
LOD = Limit of Detection J = Indicates a result > = DL (MDL) but < LOQ

Report of Analysis

Client Sample ID:	SR859-2A		
Lab Sample ID:	FA23189-4	**Date Sampled:**	03/26/15
Matrix:	SO - Soil	**Date Received:**	03/28/15
		Percent Solids:	77.7
Project:	HM-AZ PBR Holloman AFB; Alamogordo, NM		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Solids, Percent	77.7		%	1	04/01/15 14:49	LE	SM19 2540G

RL = Reporting Limit

Accutest Laboratories

Report of Analysis

Client Sample ID:	SR859-3		
Lab Sample ID:	FA23189-5	**Date Sampled:**	03/26/15
Matrix:	SO - Soil	**Date Received:**	03/28/15
Method:	SW846 8270D SW846 3550C	**Percent Solids:**	85.8
Project:	HM-AZ PBR Holloman AFB; Alamogordo, NM		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	X039295.D	1	03/31/15	MV	03/30/15	OP55512	SX1827
Run #2							

	Initial Weight	Final Volume
Run #1	30.3 g	1.0 ml
Run #2		

BN PAH List

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
83-32-9	Acenaphthene	38 U	190	38	19	ug/kg	
208-96-8	Acenaphthylene	38 U	190	38	19	ug/kg	
120-12-7	Anthracene	38 U	190	38	19	ug/kg	
56-55-3	Benzo(a)anthracene	38 U	190	38	19	ug/kg	
50-32-8	Benzo(a)pyrene	38 U	190	38	19	ug/kg	
205-99-2	Benzo(b)fluoranthene	38 U	190	38	19	ug/kg	
191-24-2	Benzo(g,h,i)perylene	38 U	190	38	19	ug/kg	
207-08-9	Benzo(k)fluoranthene	38 U	190	38	19	ug/kg	
218-01-9	Chrysene	38 U	190	38	19	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	38 U	190	38	19	ug/kg	
206-44-0	Fluoranthene	38 U	190	38	19	ug/kg	
86-73-7	Fluorene	38 U	190	38	19	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	38 U	190	38	19	ug/kg	
90-12-0	1-Methylnaphthalene	38 U	190	38	19	ug/kg	
91-57-6	2-Methylnaphthalene	38 U	190	38	19	ug/kg	
91-20-3	Naphthalene	38 U	190	38	19	ug/kg	
85-01-8	Phenanthrene	38 U	190	38	19	ug/kg	
129-00-0	Pyrene	38 U	190	38	19	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	81%		40-105%
321-60-8	2-Fluorobiphenyl	84%		43-107%
1718-51-0	Terphenyl-d14	108%		45-119%

U = Not detected LOD = Limit of Detection J = Indicates an estimated value
LOQ = Limit of Quantitation DL = Detection Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SR859-3		
Lab Sample ID:	FA23189-5	**Date Sampled:**	03/26/15
Matrix:	SO - Soil	**Date Received:**	03/28/15
		Percent Solids:	85.8
Project:	HM-AZ PBR Holloman AFB; Alamogordo, NM		

Metals Analysis

Analyte	Result	LOQ	LOD	DL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Antimony [a]	2.4 U	9.7	2.4	0.63	mg/kg	10	03/31/15	04/02/15	LM	SW846 6010C [2]	SW846 3050B [3]
Arsenic	2.5	0.49	0.24	0.097	mg/kg	1	03/31/15	04/01/15	LM	SW846 6010C [1]	SW846 3050B [3]
Copper	5.1	1.2	0.097	0.049	mg/kg	1	03/31/15	04/01/15	LM	SW846 6010C [1]	SW846 3050B [3]
Lead [a]	0.68 J	9.7	1.9	0.49	mg/kg	10	03/31/15	04/02/15	LM	SW846 6010C [2]	SW846 3050B [3]
Zinc [a]	13.2	9.7	2.4	1.5	mg/kg	10	03/31/15	04/02/15	LM	SW846 6010C [2]	SW846 3050B [3]

(1) Instrument QC Batch: MA12310
(2) Instrument QC Batch: MA12315
(3) Prep QC Batch: MP28734

(a) Elevated reporting limit(s) due to matrix interference.

LOQ = Limit of Quantitation DL = Detection Limit U = Indicates a result < LOD
LOD = Limit of Detection J = Indicates a result > = DL (MDL) but < LOQ

Report of Analysis

Client Sample ID:	SR859-3A		
Lab Sample ID:	FA23189-6	**Date Sampled:**	03/26/15
Matrix:	SO - Soil	**Date Received:**	03/28/15
		Percent Solids:	81.1
Project:	HM-AZ PBR Holloman AFB; Alamogordo, NM		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Solids, Percent	81.1		%	1	04/01/15 14:49	LE	SM19 2540G

RL = Reporting Limit

Accutest Laboratories

Report of Analysis

Client Sample ID:	SR859-4		
Lab Sample ID:	FA23189-7	**Date Sampled:**	03/26/15
Matrix:	SO - Soil	**Date Received:**	03/28/15
Method:	SW846 8270D SW846 3550C	**Percent Solids:**	77.0
Project:	HM-AZ PBR Holloman AFB; Alamogordo, NM		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	X039296.D	1	03/31/15	MV	03/30/15	OP55512	SX1827
Run #2							

	Initial Weight	Final Volume
Run #1	30.3 g	1.0 ml
Run #2		

BN PAH List

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
83-32-9	Acenaphthene	43 U	210	43	21	ug/kg	
208-96-8	Acenaphthylene	43 U	210	43	21	ug/kg	
120-12-7	Anthracene	43 U	210	43	21	ug/kg	
56-55-3	Benzo(a)anthracene	43 U	210	43	21	ug/kg	
50-32-8	Benzo(a)pyrene	43 U	210	43	21	ug/kg	
205-99-2	Benzo(b)fluoranthene	43 U	210	43	21	ug/kg	
191-24-2	Benzo(g,h,i)perylene	43 U	210	43	21	ug/kg	
207-08-9	Benzo(k)fluoranthene	43 U	210	43	21	ug/kg	
218-01-9	Chrysene	43 U	210	43	21	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	43 U	210	43	21	ug/kg	
206-44-0	Fluoranthene	43 U	210	43	21	ug/kg	
86-73-7	Fluorene	43 U	210	43	21	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	43 U	210	43	21	ug/kg	
90-12-0	1-Methylnaphthalene	43 U	210	43	21	ug/kg	
91-57-6	2-Methylnaphthalene	43 U	210	43	21	ug/kg	
91-20-3	Naphthalene	43 U	210	43	21	ug/kg	
85-01-8	Phenanthrene	43 U	210	43	21	ug/kg	
129-00-0	Pyrene	43 U	210	43	21	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	82%		40-105%
321-60-8	2-Fluorobiphenyl	82%		43-107%
1718-51-0	Terphenyl-d14	108%		45-119%

U = Not detected LOD = Limit of Detection J = Indicates an estimated value
LOQ = Limit of Quantitation DL = Detection Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SR859-4		
Lab Sample ID:	FA23189-7	**Date Sampled:**	03/26/15
Matrix:	SO - Soil	**Date Received:**	03/28/15
		Percent Solids:	77.0
Project:	HM-AZ PBR Holloman AFB; Alamogordo, NM		

Metals Analysis

Analyte	Result	LOQ	LOD	DL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Antimony [a]	2.6 U	10	2.6	0.68	mg/kg	10	03/31/15	04/02/15	LM	SW846 6010C [2]	SW846 3050B [3]
Arsenic	3.9	0.52	0.26	0.10	mg/kg	1	03/31/15	04/01/15	LM	SW846 6010C [1]	SW846 3050B [3]
Copper	10.3	1.3	0.10	0.052	mg/kg	1	03/31/15	04/01/15	LM	SW846 6010C [1]	SW846 3050B [3]
Lead [a]	4.5 J	10	2.1	0.52	mg/kg	10	03/31/15	04/02/15	LM	SW846 6010C [2]	SW846 3050B [3]
Zinc [a]	32.7	10	2.6	1.6	mg/kg	10	03/31/15	04/02/15	LM	SW846 6010C [2]	SW846 3050B [3]

(1) Instrument QC Batch: MA12310
(2) Instrument QC Batch: MA12315
(3) Prep QC Batch: MP28734

(a) Elevated reporting limit(s) due to matrix interference.

LOQ = Limit of Quantitation DL = Detection Limit U = Indicates a result < LOD
LOD = Limit of Detection J = Indicates a result > = DL (MDL) but < LOQ

Report of Analysis

Client Sample ID:	SR859-4A		
Lab Sample ID:	FA23189-8	**Date Sampled:**	03/26/15
Matrix:	SO - Soil	**Date Received:**	03/28/15
		Percent Solids:	84.4
Project:	HM-AZ PBR Holloman AFB; Alamogordo, NM		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Solids, Percent	84.4		%	1	04/01/15 14:49	LE	SM19 2540G

RL = Reporting Limit

Accutest Laboratories

Report of Analysis

Client Sample ID:	SR859-5		
Lab Sample ID:	FA23189-9	**Date Sampled:**	03/26/15
Matrix:	SO - Soil	**Date Received:**	03/28/15
Method:	SW846 8270D SW846 3550C	**Percent Solids:**	89.3
Project:	HM-AZ PBR Holloman AFB; Alamogordo, NM		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	X039297.D	1	04/01/15	MV	03/30/15	OP55512	SX1827
Run #2							

	Initial Weight	Final Volume
Run #1	29.9 g	1.0 ml
Run #2		

BN PAH List

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
83-32-9	Acenaphthene	37 U	190	37	19	ug/kg	
208-96-8	Acenaphthylene	37 U	190	37	19	ug/kg	
120-12-7	Anthracene	37 U	190	37	19	ug/kg	
56-55-3	Benzo(a)anthracene	37 U	190	37	19	ug/kg	
50-32-8	Benzo(a)pyrene	37 U	190	37	19	ug/kg	
205-99-2	Benzo(b)fluoranthene	37 U	190	37	19	ug/kg	
191-24-2	Benzo(g,h,i)perylene	37 U	190	37	19	ug/kg	
207-08-9	Benzo(k)fluoranthene	37 U	190	37	19	ug/kg	
218-01-9	Chrysene	37 U	190	37	19	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	37 U	190	37	19	ug/kg	
206-44-0	Fluoranthene	37 U	190	37	19	ug/kg	
86-73-7	Fluorene	37 U	190	37	19	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	37 U	190	37	19	ug/kg	
90-12-0	1-Methylnaphthalene	37 U	190	37	19	ug/kg	
91-57-6	2-Methylnaphthalene	37 U	190	37	19	ug/kg	
91-20-3	Naphthalene	37 U	190	37	19	ug/kg	
85-01-8	Phenanthrene	37 U	190	37	19	ug/kg	
129-00-0	Pyrene	37 U	190	37	19	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	82%		40-105%
321-60-8	2-Fluorobiphenyl	83%		43-107%
1718-51-0	Terphenyl-d14	103%		45-119%

U = Not detected LOD = Limit of Detection J = Indicates an estimated value
LOQ = Limit of Quantitation DL = Detection Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SR859-5		
Lab Sample ID:	FA23189-9	**Date Sampled:**	03/26/15
Matrix:	SO - Soil	**Date Received:**	03/28/15
		Percent Solids:	89.3
Project:	HM-AZ PBR Holloman AFB; Alamogordo, NM		

Metals Analysis

Analyte	Result	LOQ	LOD	DL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Antimony [a]	2.7 U	11	2.7	0.69	mg/kg	10	03/31/15	04/02/15	LM	SW846 6010C [2]	SW846 3050B [3]
Arsenic	2.5	0.53	0.27	0.11	mg/kg	1	03/31/15	04/01/15	LM	SW846 6010C [1]	SW846 3050B [3]
Copper	5.7	1.3	0.11	0.053	mg/kg	1	03/31/15	04/01/15	LM	SW846 6010C [1]	SW846 3050B [3]
Lead [a]	3.3 J	11	2.1	0.53	mg/kg	10	03/31/15	04/02/15	LM	SW846 6010C [2]	SW846 3050B [3]
Zinc [a]	15.7	11	2.7	1.6	mg/kg	10	03/31/15	04/02/15	LM	SW846 6010C [2]	SW846 3050B [3]

(1) Instrument QC Batch: MA12310
(2) Instrument QC Batch: MA12315
(3) Prep QC Batch: MP28734

(a) Elevated reporting limit(s) due to matrix interference.

LOQ = Limit of Quantitation
LOD = Limit of Detection
DL = Detection Limit
U = Indicates a result < LOD
J = Indicates a result > = DL (MDL) but < LOQ

Report of Analysis

Client Sample ID:	SR859-5A		
Lab Sample ID:	FA23189-10	**Date Sampled:**	03/26/15
Matrix:	SO - Soil	**Date Received:**	03/28/15
		Percent Solids:	83.6
Project:	HM-AZ PBR Holloman AFB; Alamogordo, NM		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Solids, Percent	83.6		%	1	04/01/15 14:49	LE	SM19 2540G

RL = Reporting Limit

Accutest Laboratories

Report of Analysis

Client Sample ID:	SR859-6		
Lab Sample ID:	FA23189-11	**Date Sampled:**	03/26/15
Matrix:	SO - Soil	**Date Received:**	03/28/15
Method:	SW846 8270D SW846 3550C	**Percent Solids:**	83.9
Project:	HM-AZ PBR Holloman AFB; Alamogordo, NM		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	X039298.D	1	04/01/15	MV	03/30/15	OP55512	SX1827
Run #2							

	Initial Weight	Final Volume
Run #1	30.5 g	1.0 ml
Run #2		

BN PAH List

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
83-32-9	Acenaphthene	39 U	200	39	20	ug/kg	
208-96-8	Acenaphthylene	39 U	200	39	20	ug/kg	
120-12-7	Anthracene	39 U	200	39	20	ug/kg	
56-55-3	Benzo(a)anthracene	39 U	200	39	20	ug/kg	
50-32-8	Benzo(a)pyrene	39 U	200	39	20	ug/kg	
205-99-2	Benzo(b)fluoranthene	39 U	200	39	20	ug/kg	
191-24-2	Benzo(g,h,i)perylene	39 U	200	39	20	ug/kg	
207-08-9	Benzo(k)fluoranthene	39 U	200	39	20	ug/kg	
218-01-9	Chrysene	39 U	200	39	20	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	39 U	200	39	20	ug/kg	
206-44-0	Fluoranthene	39 U	200	39	20	ug/kg	
86-73-7	Fluorene	39 U	200	39	20	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	39 U	200	39	20	ug/kg	
90-12-0	1-Methylnaphthalene	39 U	200	39	20	ug/kg	
91-57-6	2-Methylnaphthalene	39 U	200	39	20	ug/kg	
91-20-3	Naphthalene	39 U	200	39	20	ug/kg	
85-01-8	Phenanthrene	39 U	200	39	20	ug/kg	
129-00-0	Pyrene	39 U	200	39	20	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	77%		40-105%
321-60-8	2-Fluorobiphenyl	83%		43-107%
1718-51-0	Terphenyl-d14	102%		45-119%

U = Not detected LOD = Limit of Detection J = Indicates an estimated value
LOQ = Limit of Quantitation DL = Detection Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SR859-6		
Lab Sample ID:	FA23189-11	**Date Sampled:**	03/26/15
Matrix:	SO - Soil	**Date Received:**	03/28/15
		Percent Solids:	83.9
Project:	HM-AZ PBR Holloman AFB; Alamogordo, NM		

Metals Analysis

Analyte	Result	LOQ	LOD	DL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Antimony [a]	2.5 U	10	2.5	0.66	mg/kg	10	03/31/15	04/02/15	LM	SW846 6010C [2]	SW846 3050B [3]
Arsenic	2.1	0.51	0.25	0.10	mg/kg	1	03/31/15	04/01/15	LM	SW846 6010C [1]	SW846 3050B [3]
Copper	4.7	1.3	0.10	0.051	mg/kg	1	03/31/15	04/01/15	LM	SW846 6010C [1]	SW846 3050B [3]
Lead [a]	2.3 J	10	2.0	0.51	mg/kg	10	03/31/15	04/02/15	LM	SW846 6010C [2]	SW846 3050B [3]
Zinc [a]	14.1	10	2.5	1.5	mg/kg	10	03/31/15	04/02/15	LM	SW846 6010C [2]	SW846 3050B [3]

(1) Instrument QC Batch: MA12310
(2) Instrument QC Batch: MA12315
(3) Prep QC Batch: MP28734

(a) Elevated reporting limit(s) due to matrix interference.

LOQ = Limit of Quantitation DL = Detection Limit U = Indicates a result < LOD
LOD = Limit of Detection J = Indicates a result > = DL (MDL) but < LOQ

Report of Analysis

Client Sample ID:	SR859-6A		
Lab Sample ID:	FA23189-12	**Date Sampled:**	03/26/15
Matrix:	SO - Soil	**Date Received:**	03/28/15
		Percent Solids:	74.5
Project:	HM-AZ PBR Holloman AFB; Alamogordo, NM		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Solids, Percent	74.5		%	1	04/01/15 14:49	LE	SM19 2540G

RL = Reporting Limit

Accutest Laboratories

Report of Analysis

Client Sample ID:	SR859-7		
Lab Sample ID:	FA23189-13	**Date Sampled:**	03/26/15
Matrix:	SO - Soil	**Date Received:**	03/28/15
Method:	SW846 8270D SW846 3550C	**Percent Solids:**	77.3
Project:	HM-AZ PBR Holloman AFB; Alamogordo, NM		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	X039309.D	1	04/01/15	MV	03/31/15	OP55531	SX1828
Run #2							

	Initial Weight	Final Volume
Run #1	30.0 g	1.0 ml
Run #2		

BN PAH List

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
83-32-9	Acenaphthene	43 U	220	43	22	ug/kg	
208-96-8	Acenaphthylene	43 U	220	43	22	ug/kg	
120-12-7	Anthracene	43 U	220	43	22	ug/kg	
56-55-3	Benzo(a)anthracene	43 U	220	43	22	ug/kg	
50-32-8	Benzo(a)pyrene	43 U	220	43	22	ug/kg	
205-99-2	Benzo(b)fluoranthene	43 U	220	43	22	ug/kg	
191-24-2	Benzo(g,h,i)perylene	43 U	220	43	22	ug/kg	
207-08-9	Benzo(k)fluoranthene	43 U	220	43	22	ug/kg	
218-01-9	Chrysene	43 U	220	43	22	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	43 U	220	43	22	ug/kg	
206-44-0	Fluoranthene	43 U	220	43	22	ug/kg	
86-73-7	Fluorene	43 U	220	43	22	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	43 U	220	43	22	ug/kg	
90-12-0	1-Methylnaphthalene	43 U	220	43	22	ug/kg	
91-57-6	2-Methylnaphthalene	43 U	220	43	22	ug/kg	
91-20-3	Naphthalene	43 U	220	43	22	ug/kg	
85-01-8	Phenanthrene	43 U	220	43	22	ug/kg	
129-00-0	Pyrene	43 U	220	43	22	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	71%		40-105%
321-60-8	2-Fluorobiphenyl	74%		43-107%
1718-51-0	Terphenyl-d14	96%		45-119%

U = Not detected LOD = Limit of Detection J = Indicates an estimated value
LOQ = Limit of Quantitation DL = Detection Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SR859-7		
Lab Sample ID:	FA23189-13	**Date Sampled:**	03/26/15
Matrix:	SO - Soil	**Date Received:**	03/28/15
		Percent Solids:	77.3
Project:	HM-AZ PBR Holloman AFB; Alamogordo, NM		

Metals Analysis

Analyte	Result	LOQ	LOD	DL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Antimony [a]	2.9 U	12	2.9	0.76	mg/kg	10	03/31/15	04/02/15	LM	SW846 6010C [2]	SW846 3050B [3]
Arsenic	1.4	0.58	0.29	0.12	mg/kg	1	03/31/15	04/01/15	LM	SW846 6010C [1]	SW846 3050B [3]
Copper	3.8	1.5	0.12	0.058	mg/kg	1	03/31/15	04/01/15	LM	SW846 6010C [1]	SW846 3050B [3]
Lead [a]	6.1 J	12	2.3	0.58	mg/kg	10	03/31/15	04/02/15	LM	SW846 6010C [2]	SW846 3050B [3]
Zinc [a]	11.9 J	12	2.9	1.7	mg/kg	10	03/31/15	04/02/15	LM	SW846 6010C [2]	SW846 3050B [3]

(1) Instrument QC Batch: MA12310
(2) Instrument QC Batch: MA12315
(3) Prep QC Batch: MP28734

(a) Elevated reporting limit(s) due to matrix interference.

LOQ = Limit of Quantitation DL = Detection Limit U = Indicates a result < LOD
LOD = Limit of Detection J = Indicates a result > = DL (MDL) but < LOQ

Accutest Laboratories

Report of Analysis

Client Sample ID:	SR859-107		
Lab Sample ID:	FA23189-14	**Date Sampled:**	03/26/15
Matrix:	SO - Soil	**Date Received:**	03/28/15
Method:	SW846 8270D SW846 3550C	**Percent Solids:**	78.7
Project:	HM-AZ PBR Holloman AFB; Alamogordo, NM		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	X039310.D	1	04/01/15	MV	03/31/15	OP55531	SX1828
Run #2							

	Initial Weight	Final Volume
Run #1	30.4 g	1.0 ml
Run #2		

BN PAH List

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
83-32-9	Acenaphthene	42 U	210	42	21	ug/kg	
208-96-8	Acenaphthylene	42 U	210	42	21	ug/kg	
120-12-7	Anthracene	42 U	210	42	21	ug/kg	
56-55-3	Benzo(a)anthracene	42 U	210	42	21	ug/kg	
50-32-8	Benzo(a)pyrene	42 U	210	42	21	ug/kg	
205-99-2	Benzo(b)fluoranthene	42 U	210	42	21	ug/kg	
191-24-2	Benzo(g,h,i)perylene	42 U	210	42	21	ug/kg	
207-08-9	Benzo(k)fluoranthene	42 U	210	42	21	ug/kg	
218-01-9	Chrysene	42 U	210	42	21	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	42 U	210	42	21	ug/kg	
206-44-0	Fluoranthene	42 U	210	42	21	ug/kg	
86-73-7	Fluorene	42 U	210	42	21	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	42 U	210	42	21	ug/kg	
90-12-0	1-Methylnaphthalene	42 U	210	42	21	ug/kg	
91-57-6	2-Methylnaphthalene	42 U	210	42	21	ug/kg	
91-20-3	Naphthalene	42 U	210	42	21	ug/kg	
85-01-8	Phenanthrene	42 U	210	42	21	ug/kg	
129-00-0	Pyrene	42 U	210	42	21	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	71%		40-105%
321-60-8	2-Fluorobiphenyl	70%		43-107%
1718-51-0	Terphenyl-d14	98%		45-119%

U = Not detected LOD = Limit of Detection J = Indicates an estimated value
LOQ = Limit of Quantitation DL = Detection Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SR859-107		
Lab Sample ID:	FA23189-14	**Date Sampled:**	03/26/15
Matrix:	SO - Soil	**Date Received:**	03/28/15
		Percent Solids:	78.7
Project:	HM-AZ PBR Holloman AFB; Alamogordo, NM		

Metals Analysis

Analyte	Result	LOQ	LOD	DL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Antimony [a]	2.7 U	11	2.7	0.69	mg/kg	10	03/31/15	04/02/15	LM	SW846 6010C [2]	SW846 3050B [3]
Arsenic	1.2	0.53	0.27	0.11	mg/kg	1	03/31/15	04/01/15	LM	SW846 6010C [1]	SW846 3050B [3]
Copper	3.2	1.3	0.11	0.053	mg/kg	1	03/31/15	04/01/15	LM	SW846 6010C [1]	SW846 3050B [3]
Lead [a]	2.1 U	11	2.1	0.53	mg/kg	10	03/31/15	04/02/15	LM	SW846 6010C [2]	SW846 3050B [3]
Zinc [a]	6.9 J	11	2.7	1.6	mg/kg	10	03/31/15	04/02/15	LM	SW846 6010C [2]	SW846 3050B [3]

(1) Instrument QC Batch: MA12310
(2) Instrument QC Batch: MA12315
(3) Prep QC Batch: MP28734

(a) Elevated reporting limit(s) due to matrix interference.

LOQ = Limit of Quantitation DL = Detection Limit U = Indicates a result < LOD
LOD = Limit of Detection J = Indicates a result > = DL (MDL) but < LOQ

Report of Analysis

Client Sample ID:	SR859-7A		
Lab Sample ID:	FA23189-15	**Date Sampled:**	03/26/15
Matrix:	SO - Soil	**Date Received:**	03/28/15
		Percent Solids:	77.3
Project:	HM-AZ PBR Holloman AFB; Alamogordo, NM		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Solids, Percent	77.3		%	1	04/01/15 15:18	LE	SM19 2540G

RL = Reporting Limit

Accutest Laboratories

Report of Analysis

Client Sample ID:	SR859-8		
Lab Sample ID:	FA23189-16	**Date Sampled:**	03/26/15
Matrix:	SO - Soil	**Date Received:**	03/28/15
Method:	SW846 8270D SW846 3550C	**Percent Solids:**	78.4
Project:	HM-AZ PBR Holloman AFB; Alamogordo, NM		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	X039311.D	1	04/01/15	MV	03/31/15	OP55531	SX1828
Run #2							

	Initial Weight	Final Volume
Run #1	30.0 g	1.0 ml
Run #2		

BN PAH List

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
83-32-9	Acenaphthene	43 U	210	43	21	ug/kg	
208-96-8	Acenaphthylene	43 U	210	43	21	ug/kg	
120-12-7	Anthracene	43 U	210	43	21	ug/kg	
56-55-3	Benzo(a)anthracene	43 U	210	43	21	ug/kg	
50-32-8	Benzo(a)pyrene	43 U	210	43	21	ug/kg	
205-99-2	Benzo(b)fluoranthene	43 U	210	43	21	ug/kg	
191-24-2	Benzo(g,h,i)perylene	43 U	210	43	21	ug/kg	
207-08-9	Benzo(k)fluoranthene	43 U	210	43	21	ug/kg	
218-01-9	Chrysene	43 U	210	43	21	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	43 U	210	43	21	ug/kg	
206-44-0	Fluoranthene	43 U	210	43	21	ug/kg	
86-73-7	Fluorene	43 U	210	43	21	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	43 U	210	43	21	ug/kg	
90-12-0	1-Methylnaphthalene	43 U	210	43	21	ug/kg	
91-57-6	2-Methylnaphthalene	43 U	210	43	21	ug/kg	
91-20-3	Naphthalene	43 U	210	43	21	ug/kg	
85-01-8	Phenanthrene	43 U	210	43	21	ug/kg	
129-00-0	Pyrene	43 U	210	43	21	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	76%		40-105%
321-60-8	2-Fluorobiphenyl	80%		43-107%
1718-51-0	Terphenyl-d14	98%		45-119%

U = Not detected LOD = Limit of Detection J = Indicates an estimated value
LOQ = Limit of Quantitation DL = Detection Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SR859-8		
Lab Sample ID:	FA23189-16	**Date Sampled:**	03/26/15
Matrix:	SO - Soil	**Date Received:**	03/28/15
		Percent Solids:	78.4
Project:	HM-AZ PBR Holloman AFB; Alamogordo, NM		

Metals Analysis

Analyte	Result	LOQ	LOD	DL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Antimony [a]	2.6 U	10	2.6	0.67	mg/kg	10	03/31/15	04/02/15	LM	SW846 6010C [2]	SW846 3050B [3]
Arsenic	1.6	0.51	0.26	0.10	mg/kg	1	03/31/15	04/01/15	LM	SW846 6010C [1]	SW846 3050B [3]
Copper	3.5	1.3	0.10	0.051	mg/kg	1	03/31/15	04/01/15	LM	SW846 6010C [1]	SW846 3050B [3]
Lead [a]	2.4 J	10	2.1	0.51	mg/kg	10	03/31/15	04/02/15	LM	SW846 6010C [2]	SW846 3050B [3]
Zinc [a]	10.2	10	2.6	1.5	mg/kg	10	03/31/15	04/02/15	LM	SW846 6010C [2]	SW846 3050B [3]

(1) Instrument QC Batch: MA12310
(2) Instrument QC Batch: MA12315
(3) Prep QC Batch: MP28734

(a) Elevated reporting limit(s) due to matrix interference.

LOQ = Limit of Quantitation DL = Detection Limit U = Indicates a result < LOD
LOD = Limit of Detection J = Indicates a result > = DL (MDL) but < LOQ

Report of Analysis

Client Sample ID:	SR859-8A		
Lab Sample ID:	FA23189-17	**Date Sampled:**	03/26/15
Matrix:	SO - Soil	**Date Received:**	03/28/15
		Percent Solids:	77.2
Project:	HM-AZ PBR Holloman AFB; Alamogordo, NM		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Solids, Percent	77.2		%	1	04/01/15 15:18	LE	SM19 2540G

RL = Reporting Limit

Accutest Laboratories

Report of Analysis

Client Sample ID:	SR859-9		
Lab Sample ID:	FA23189-18	**Date Sampled:**	03/26/15
Matrix:	SO - Soil	**Date Received:**	03/28/15
Method:	SW846 8270D SW846 3550C	**Percent Solids:**	70.4
Project:	HM-AZ PBR Holloman AFB; Alamogordo, NM		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	X039312.D	1	04/01/15	MV	03/31/15	OP55531	SX1828
Run #2							

	Initial Weight	Final Volume
Run #1	30.0 g	1.0 ml
Run #2		

BN PAH List

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
83-32-9	Acenaphthene	47 U	240	47	24	ug/kg	
208-96-8	Acenaphthylene	47 U	240	47	24	ug/kg	
120-12-7	Anthracene	47 U	240	47	24	ug/kg	
56-55-3	Benzo(a)anthracene	47 U	240	47	24	ug/kg	
50-32-8	Benzo(a)pyrene	47 U	240	47	24	ug/kg	
205-99-2	Benzo(b)fluoranthene	47 U	240	47	24	ug/kg	
191-24-2	Benzo(g,h,i)perylene	47 U	240	47	24	ug/kg	
207-08-9	Benzo(k)fluoranthene	47 U	240	47	24	ug/kg	
218-01-9	Chrysene	47 U	240	47	24	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	47 U	240	47	24	ug/kg	
206-44-0	Fluoranthene	47 U	240	47	24	ug/kg	
86-73-7	Fluorene	47 U	240	47	24	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	47 U	240	47	24	ug/kg	
90-12-0	1-Methylnaphthalene	47 U	240	47	24	ug/kg	
91-57-6	2-Methylnaphthalene	47 U	240	47	24	ug/kg	
91-20-3	Naphthalene	47 U	240	47	24	ug/kg	
85-01-8	Phenanthrene	47 U	240	47	24	ug/kg	
129-00-0	Pyrene	47 U	240	47	24	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	72%		40-105%
321-60-8	2-Fluorobiphenyl	78%		43-107%
1718-51-0	Terphenyl-d14	97%		45-119%

U = Not detected LOD = Limit of Detection J = Indicates an estimated value
LOQ = Limit of Quantitation DL = Detection Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SR859-9		
Lab Sample ID:	FA23189-18	**Date Sampled:**	03/26/15
Matrix:	SO - Soil	**Date Received:**	03/28/15
		Percent Solids:	70.4
Project:	HM-AZ PBR Holloman AFB; Alamogordo, NM		

Metals Analysis

Analyte	Result	LOQ	LOD	DL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Antimony [a]	2.8 U	11	2.8	0.74	mg/kg	10	03/31/15	04/02/15	LM	SW846 6010C [2]	SW846 3050B [3]
Arsenic	1.2	0.57	0.28	0.11	mg/kg	1	03/31/15	04/01/15	LM	SW846 6010C [1]	SW846 3050B [3]
Copper	2.9	1.4	0.11	0.057	mg/kg	1	03/31/15	04/01/15	LM	SW846 6010C [1]	SW846 3050B [3]
Lead [a]	1.1 J	11	2.3	0.57	mg/kg	10	03/31/15	04/02/15	LM	SW846 6010C [2]	SW846 3050B [3]
Zinc [a]	9.0 J	11	2.8	1.7	mg/kg	10	03/31/15	04/02/15	LM	SW846 6010C [2]	SW846 3050B [3]

(1) Instrument QC Batch: MA12310
(2) Instrument QC Batch: MA12315
(3) Prep QC Batch: MP28734

(a) Elevated reporting limit(s) due to matrix interference.

LOQ = Limit of Quantitation DL = Detection Limit U = Indicates a result < LOD
LOD = Limit of Detection J = Indicates a result > = DL (MDL) but < LOQ

Report of Analysis

Client Sample ID:	SR859-9A		
Lab Sample ID:	FA23189-19	**Date Sampled:**	03/26/15
Matrix:	SO - Soil	**Date Received:**	03/28/15
		Percent Solids:	73.2
Project:	HM-AZ PBR Holloman AFB; Alamogordo, NM		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Solids, Percent	73.2		%	1	04/01/15 15:18	LE	SM19 2540G

RL = Reporting Limit

Accutest Laboratories

Report of Analysis

Client Sample ID:	SR859-10		
Lab Sample ID:	FA23189-20	**Date Sampled:**	03/26/15
Matrix:	SO - Soil	**Date Received:**	03/28/15
Method:	SW846 8270D SW846 3550C	**Percent Solids:**	79.4
Project:	HM-AZ PBR Holloman AFB; Alamogordo, NM		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	X039313.D	1	04/01/15	MV	03/31/15	OP55531	SX1828
Run #2							

	Initial Weight	Final Volume
Run #1	30.4 g	1.0 ml
Run #2		

BN PAH List

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
83-32-9	Acenaphthene	41 U	210	41	21	ug/kg	
208-96-8	Acenaphthylene	41 U	210	41	21	ug/kg	
120-12-7	Anthracene	41 U	210	41	21	ug/kg	
56-55-3	Benzo(a)anthracene	32.9	210	41	21	ug/kg	J
50-32-8	Benzo(a)pyrene	37.1	210	41	21	ug/kg	J
205-99-2	Benzo(b)fluoranthene	43.6	210	41	21	ug/kg	J
191-24-2	Benzo(g,h,i)perylene	30.9	210	41	21	ug/kg	J
207-08-9	Benzo(k)fluoranthene	30.6	210	41	21	ug/kg	J
218-01-9	Chrysene	41.3	210	41	21	ug/kg	J
53-70-3	Dibenzo(a,h)anthracene	41 U	210	41	21	ug/kg	
206-44-0	Fluoranthene	38.3	210	41	21	ug/kg	J
86-73-7	Fluorene	41 U	210	41	21	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	28.4	210	41	21	ug/kg	J
90-12-0	1-Methylnaphthalene	41 U	210	41	21	ug/kg	
91-57-6	2-Methylnaphthalene	41 U	210	41	21	ug/kg	
91-20-3	Naphthalene	41 U	210	41	21	ug/kg	
85-01-8	Phenanthrene	41 U	210	41	21	ug/kg	
129-00-0	Pyrene	39.8	210	41	21	ug/kg	J

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	77%		40-105%
321-60-8	2-Fluorobiphenyl	82%		43-107%
1718-51-0	Terphenyl-d14	105%		45-119%

U = Not detected LOD = Limit of Detection J = Indicates an estimated value
LOQ = Limit of Quantitation DL = Detection Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SR859-10		
Lab Sample ID:	FA23189-20	**Date Sampled:**	03/26/15
Matrix:	SO - Soil	**Date Received:**	03/28/15
		Percent Solids:	79.4
Project:	HM-AZ PBR Holloman AFB; Alamogordo, NM		

Metals Analysis

Analyte	Result	LOQ	LOD	DL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Antimony [a]	2.6 U	10	2.6	0.67	mg/kg	10	03/31/15	04/02/15	LM	SW846 6010C [2]	SW846 3050B [3]
Arsenic	2.3	0.51	0.26	0.10	mg/kg	1	03/31/15	04/01/15	LM	SW846 6010C [1]	SW846 3050B [3]
Copper	4.5	1.3	0.10	0.051	mg/kg	1	03/31/15	04/01/15	LM	SW846 6010C [1]	SW846 3050B [3]
Lead [a]	1.7 J	10	2.0	0.51	mg/kg	10	03/31/15	04/02/15	LM	SW846 6010C [2]	SW846 3050B [3]
Zinc [a]	17.6	10	2.6	1.5	mg/kg	10	03/31/15	04/02/15	LM	SW846 6010C [2]	SW846 3050B [3]

(1) Instrument QC Batch: MA12310
(2) Instrument QC Batch: MA12315
(3) Prep QC Batch: MP28734

(a) Elevated reporting limit(s) due to matrix interference.

LOQ = Limit of Quantitation DL = Detection Limit U = Indicates a result < LOD
LOD = Limit of Detection J = Indicates a result > = DL (MDL) but < LOQ

Report of Analysis

Client Sample ID:	SR859-10A		
Lab Sample ID:	FA23189-21	**Date Sampled:**	03/26/15
Matrix:	SO - Soil	**Date Received:**	03/28/15
		Percent Solids:	84.7
Project:	HM-AZ PBR Holloman AFB; Alamogordo, NM		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Solids, Percent	84.7		%	1	04/01/15 15:18	LE	SM19 2540G

RL = Reporting Limit

Accutest Laboratories

Report of Analysis

Client Sample ID:	SR859-11		
Lab Sample ID:	FA23189-22	**Date Sampled:**	03/26/15
Matrix:	SO - Soil	**Date Received:**	03/28/15
Method:	SW846 8270D SW846 3550C	**Percent Solids:**	82.0
Project:	HM-AZ PBR Holloman AFB; Alamogordo, NM		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	X039314.D	1	04/01/15	MV	03/31/15	OP55531	SX1828
Run #2							

	Initial Weight	Final Volume
Run #1	29.8 g	1.0 ml
Run #2		

BN PAH List

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
83-32-9	Acenaphthene	41 U	200	41	20	ug/kg	
208-96-8	Acenaphthylene	41 U	200	41	20	ug/kg	
120-12-7	Anthracene	41 U	200	41	20	ug/kg	
56-55-3	Benzo(a)anthracene	41 U	200	41	20	ug/kg	
50-32-8	Benzo(a)pyrene	41 U	200	41	20	ug/kg	
205-99-2	Benzo(b)fluoranthene	41 U	200	41	20	ug/kg	
191-24-2	Benzo(g,h,i)perylene	41 U	200	41	20	ug/kg	
207-08-9	Benzo(k)fluoranthene	41 U	200	41	20	ug/kg	
218-01-9	Chrysene	41 U	200	41	20	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	41 U	200	41	20	ug/kg	
206-44-0	Fluoranthene	41 U	200	41	20	ug/kg	
86-73-7	Fluorene	41 U	200	41	20	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	41 U	200	41	20	ug/kg	
90-12-0	1-Methylnaphthalene	41 U	200	41	20	ug/kg	
91-57-6	2-Methylnaphthalene	41 U	200	41	20	ug/kg	
91-20-3	Naphthalene	41 U	200	41	20	ug/kg	
85-01-8	Phenanthrene	41 U	200	41	20	ug/kg	
129-00-0	Pyrene	41 U	200	41	20	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	85%		40-105%
321-60-8	2-Fluorobiphenyl	89%		43-107%
1718-51-0	Terphenyl-d14	112%		45-119%

U = Not detected LOD = Limit of Detection J = Indicates an estimated value
LOQ = Limit of Quantitation DL = Detection Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SR859-11		
Lab Sample ID:	FA23189-22	**Date Sampled:**	03/26/15
Matrix:	SO - Soil	**Date Received:**	03/28/15
		Percent Solids:	82.0
Project:	HM-AZ PBR Holloman AFB; Alamogordo, NM		

Metals Analysis

Analyte	Result	LOQ	LOD	DL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Antimony [a]	2.5 U	10	2.5	0.66	mg/kg	10	03/31/15	04/02/15	LM	SW846 6010C [2]	SW846 3050B [3]
Arsenic	1.9	0.50	0.25	0.10	mg/kg	1	03/31/15	04/01/15	LM	SW846 6010C [1]	SW846 3050B [3]
Copper	3.9	1.3	0.10	0.050	mg/kg	1	03/31/15	04/01/15	LM	SW846 6010C [1]	SW846 3050B [3]
Lead [a]	1.8 J	10	2.0	0.50	mg/kg	10	03/31/15	04/02/15	LM	SW846 6010C [2]	SW846 3050B [3]
Zinc [a]	14.8	10	2.5	1.5	mg/kg	10	03/31/15	04/02/15	LM	SW846 6010C [2]	SW846 3050B [3]

(1) Instrument QC Batch: MA12310
(2) Instrument QC Batch: MA12315
(3) Prep QC Batch: MP28734

(a) Elevated reporting limit(s) due to matrix interference.

LOQ = Limit of Quantitation DL = Detection Limit U = Indicates a result < LOD
LOD = Limit of Detection J = Indicates a result > = DL (MDL) but < LOQ

Report of Analysis

Client Sample ID:	SR859-11A		
Lab Sample ID:	FA23189-23	**Date Sampled:**	03/26/15
Matrix:	SO - Soil	**Date Received:**	03/28/15
		Percent Solids:	81.1
Project:	HM-AZ PBR Holloman AFB; Alamogordo, NM		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Solids, Percent	81.1		%	1	04/01/15 15:18	LE	SM19 2540G

RL = Reporting Limit

Accutest Laboratories

Report of Analysis

Client Sample ID:	SR859-12		
Lab Sample ID:	FA23189-24	**Date Sampled:**	03/26/15
Matrix:	SO - Soil	**Date Received:**	03/28/15
Method:	SW846 8270D SW846 3550C	**Percent Solids:**	85.9
Project:	HM-AZ PBR Holloman AFB; Alamogordo, NM		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	X039315.D	1	04/01/15	MV	03/31/15	OP55531	SX1828
Run #2							

	Initial Weight	Final Volume
Run #1	29.6 g	1.0 ml
Run #2		

BN PAH List

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
83-32-9	Acenaphthene	39 U	200	39	20	ug/kg	
208-96-8	Acenaphthylene	39 U	200	39	20	ug/kg	
120-12-7	Anthracene	39 U	200	39	20	ug/kg	
56-55-3	Benzo(a)anthracene	39 U	200	39	20	ug/kg	
50-32-8	Benzo(a)pyrene	39 U	200	39	20	ug/kg	
205-99-2	Benzo(b)fluoranthene	39 U	200	39	20	ug/kg	
191-24-2	Benzo(g,h,i)perylene	39 U	200	39	20	ug/kg	
207-08-9	Benzo(k)fluoranthene	39 U	200	39	20	ug/kg	
218-01-9	Chrysene	39 U	200	39	20	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	39 U	200	39	20	ug/kg	
206-44-0	Fluoranthene	39 U	200	39	20	ug/kg	
86-73-7	Fluorene	39 U	200	39	20	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	39 U	200	39	20	ug/kg	
90-12-0	1-Methylnaphthalene	39 U	200	39	20	ug/kg	
91-57-6	2-Methylnaphthalene	39 U	200	39	20	ug/kg	
91-20-3	Naphthalene	39 U	200	39	20	ug/kg	
85-01-8	Phenanthrene	39 U	200	39	20	ug/kg	
129-00-0	Pyrene	39 U	200	39	20	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	75%		40-105%
321-60-8	2-Fluorobiphenyl	79%		43-107%
1718-51-0	Terphenyl-d14	104%		45-119%

U = Not detected LOD = Limit of Detection J = Indicates an estimated value
LOQ = Limit of Quantitation DL = Detection Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SR859-12		
Lab Sample ID:	FA23189-24	**Date Sampled:**	03/26/15
Matrix:	SO - Soil	**Date Received:**	03/28/15
		Percent Solids:	85.9
Project:	HM-AZ PBR Holloman AFB; Alamogordo, NM		

Metals Analysis

Analyte	Result	LOQ	LOD	DL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Antimony [a]	2.1 U	8.4	2.1	0.54	mg/kg	10	03/31/15	04/02/15	LM	SW846 6010C [2]	SW846 3050B [3]
Arsenic	2.3	0.42	0.21	0.084	mg/kg	1	03/31/15	04/01/15	LM	SW846 6010C [1]	SW846 3050B [3]
Copper	7.2	1.0	0.084	0.042	mg/kg	1	03/31/15	04/01/15	LM	SW846 6010C [1]	SW846 3050B [3]
Lead [a]	5.1 J	8.4	1.7	0.42	mg/kg	10	03/31/15	04/02/15	LM	SW846 6010C [2]	SW846 3050B [3]
Zinc [a]	29.2	8.4	2.1	1.3	mg/kg	10	03/31/15	04/02/15	LM	SW846 6010C [2]	SW846 3050B [3]

(1) Instrument QC Batch: MA12310
(2) Instrument QC Batch: MA12315
(3) Prep QC Batch: MP28734

(a) Elevated reporting limit(s) due to matrix interference.

LOQ = Limit of Quantitation DL = Detection Limit U = Indicates a result < LOD
LOD = Limit of Detection J = Indicates a result > = DL (MDL) but < LOQ

Accutest Laboratories

Report of Analysis

Client Sample ID:	SR859-112		
Lab Sample ID:	FA23189-25	**Date Sampled:**	03/26/15
Matrix:	SO - Soil	**Date Received:**	03/28/15
Method:	SW846 8270D SW846 3550C	**Percent Solids:**	86.1
Project:	HM-AZ PBR Holloman AFB; Alamogordo, NM		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	X039316.D	1	04/01/15	MV	03/31/15	OP55531	SX1828
Run #2							

	Initial Weight	Final Volume
Run #1	29.7 g	1.0 ml
Run #2		

BN PAH List

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
83-32-9	Acenaphthene	39 U	200	39	20	ug/kg	
208-96-8	Acenaphthylene	39 U	200	39	20	ug/kg	
120-12-7	Anthracene	39 U	200	39	20	ug/kg	
56-55-3	Benzo(a)anthracene	39 U	200	39	20	ug/kg	
50-32-8	Benzo(a)pyrene	39 U	200	39	20	ug/kg	
205-99-2	Benzo(b)fluoranthene	39 U	200	39	20	ug/kg	
191-24-2	Benzo(g,h,i)perylene	39 U	200	39	20	ug/kg	
207-08-9	Benzo(k)fluoranthene	39 U	200	39	20	ug/kg	
218-01-9	Chrysene	39 U	200	39	20	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	39 U	200	39	20	ug/kg	
206-44-0	Fluoranthene	39 U	200	39	20	ug/kg	
86-73-7	Fluorene	39 U	200	39	20	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	39 U	200	39	20	ug/kg	
90-12-0	1-Methylnaphthalene	39 U	200	39	20	ug/kg	
91-57-6	2-Methylnaphthalene	39 U	200	39	20	ug/kg	
91-20-3	Naphthalene	39 U	200	39	20	ug/kg	
85-01-8	Phenanthrene	39 U	200	39	20	ug/kg	
129-00-0	Pyrene	39 U	200	39	20	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	75%		40-105%
321-60-8	2-Fluorobiphenyl	74%		43-107%
1718-51-0	Terphenyl-d14	99%		45-119%

U = Not detected LOD = Limit of Detection J = Indicates an estimated value
LOQ = Limit of Quantitation DL = Detection Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SR859-112		
Lab Sample ID:	FA23189-25	**Date Sampled:**	03/26/15
Matrix:	SO - Soil	**Date Received:**	03/28/15
		Percent Solids:	86.1
Project:	HM-AZ PBR Holloman AFB; Alamogordo, NM		

Metals Analysis

Analyte	Result	LOQ	LOD	DL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Antimony [a]	1.1 U	4.2	1.1	0.27	mg/kg	4	03/31/15	04/02/15	LM	SW846 6010C [2]	SW846 3050B [3]
Arsenic	2.6	0.53	0.26	0.11	mg/kg	1	03/31/15	04/01/15	LM	SW846 6010C [1]	SW846 3050B [3]
Copper	9.7	1.3	0.11	0.053	mg/kg	1	03/31/15	04/01/15	LM	SW846 6010C [1]	SW846 3050B [3]
Lead [a]	9.5	4.2	0.84	0.21	mg/kg	4	03/31/15	04/02/15	LM	SW846 6010C [2]	SW846 3050B [3]
Zinc [a]	37.6	4.2	1.1	0.63	mg/kg	4	03/31/15	04/02/15	LM	SW846 6010C [2]	SW846 3050B [3]

(1) Instrument QC Batch: MA12310
(2) Instrument QC Batch: MA12315
(3) Prep QC Batch: MP28734

(a) Elevated reporting limit(s) due to matrix interference.

LOQ = Limit of Quantitation DL = Detection Limit U = Indicates a result < LOD
LOD = Limit of Detection J = Indicates a result > = DL (MDL) but < LOQ

Report of Analysis

Client Sample ID:	SR859-12A		
Lab Sample ID:	FA23189-26	**Date Sampled:**	03/26/15
Matrix:	SO - Soil	**Date Received:**	03/28/15
		Percent Solids:	99.8
Project:	HM-AZ PBR Holloman AFB; Alamogordo, NM		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Solids, Percent	99.8		%	1	04/01/15 15:18	LE	SM19 2540G

RL = Reporting Limit

Accutest Laboratories

Report of Analysis

Client Sample ID:	SR859-13		
Lab Sample ID:	FA23189-27	**Date Sampled:**	03/27/15
Matrix:	SO - Soil	**Date Received:**	03/28/15
Method:	SW846 8270D SW846 3550C	**Percent Solids:**	72.2
Project:	HM-AZ PBR Holloman AFB; Alamogordo, NM		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	X039317.D	1	04/01/15	MV	03/31/15	OP55531	SX1828
Run #2							

	Initial Weight	Final Volume
Run #1	30.0 g	1.0 ml
Run #2		

BN PAH List

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
83-32-9	Acenaphthene	46 U	230	46	23	ug/kg	
208-96-8	Acenaphthylene	46 U	230	46	23	ug/kg	
120-12-7	Anthracene	46 U	230	46	23	ug/kg	
56-55-3	Benzo(a)anthracene	46 U	230	46	23	ug/kg	
50-32-8	Benzo(a)pyrene	46 U	230	46	23	ug/kg	
205-99-2	Benzo(b)fluoranthene	46 U	230	46	23	ug/kg	
191-24-2	Benzo(g,h,i)perylene	46 U	230	46	23	ug/kg	
207-08-9	Benzo(k)fluoranthene	46 U	230	46	23	ug/kg	
218-01-9	Chrysene	46 U	230	46	23	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	46 U	230	46	23	ug/kg	
206-44-0	Fluoranthene	46 U	230	46	23	ug/kg	
86-73-7	Fluorene	46 U	230	46	23	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	46 U	230	46	23	ug/kg	
90-12-0	1-Methylnaphthalene	46 U	230	46	23	ug/kg	
91-57-6	2-Methylnaphthalene	46 U	230	46	23	ug/kg	
91-20-3	Naphthalene	46 U	230	46	23	ug/kg	
85-01-8	Phenanthrene	46 U	230	46	23	ug/kg	
129-00-0	Pyrene	46 U	230	46	23	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	77%		40-105%
321-60-8	2-Fluorobiphenyl	80%		43-107%
1718-51-0	Terphenyl-d14	101%		45-119%

U = Not detected LOD = Limit of Detection J = Indicates an estimated value
LOQ = Limit of Quantitation DL = Detection Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SR859-13		
Lab Sample ID:	FA23189-27	**Date Sampled:**	03/27/15
Matrix:	SO - Soil	**Date Received:**	03/28/15
		Percent Solids:	72.2
Project:	HM-AZ PBR Holloman AFB; Alamogordo, NM		

Metals Analysis

Analyte	Result	LOQ	LOD	DL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Antimony [a]	2.5 U	9.8	2.5	0.64	mg/kg	10	03/31/15	04/03/15	LM	SW846 6010C [2]	SW846 3050B [3]
Arsenic	3.1	0.49	0.25	0.098	mg/kg	1	03/31/15	04/01/15	LM	SW846 6010C [1]	SW846 3050B [3]
Copper	8.2	1.2	0.098	0.049	mg/kg	1	03/31/15	04/01/15	LM	SW846 6010C [1]	SW846 3050B [3]
Lead [a]	5.9 J	9.8	2.0	0.49	mg/kg	10	03/31/15	04/03/15	LM	SW846 6010C [2]	SW846 3050B [3]
Zinc [a]	27.3	9.8	2.5	1.5	mg/kg	10	03/31/15	04/03/15	LM	SW846 6010C [2]	SW846 3050B [3]

(1) Instrument QC Batch: MA12310
(2) Instrument QC Batch: MA12317
(3) Prep QC Batch: MP28734

(a) Elevated reporting limit(s) due to matrix interference.

LOQ = Limit of Quantitation DL = Detection Limit U = Indicates a result < LOD
LOD = Limit of Detection J = Indicates a result > = DL (MDL) but < LOQ

Report of Analysis

Client Sample ID:	SR859-13A		
Lab Sample ID:	FA23189-28	**Date Sampled:**	03/27/15
Matrix:	SO - Soil	**Date Received:**	03/28/15
		Percent Solids:	79.5
Project:	HM-AZ PBR Holloman AFB; Alamogordo, NM		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Solids, Percent	79.5		%	1	04/01/15 15:18	LE	SM19 2540G

RL = Reporting Limit

Accutest Laboratories

Report of Analysis

Client Sample ID:	SR859-14		
Lab Sample ID:	FA23189-29	**Date Sampled:**	03/27/15
Matrix:	SO - Soil	**Date Received:**	03/28/15
Method:	SW846 8270D SW846 3550C	**Percent Solids:**	77.6
Project:	HM-AZ PBR Holloman AFB; Alamogordo, NM		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	X039318.D	1	04/01/15	MV	03/31/15	OP55531	SX1828
Run #2							

	Initial Weight	Final Volume
Run #1	29.8 g	1.0 ml
Run #2		

BN PAH List

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
83-32-9	Acenaphthene	43 U	220	43	22	ug/kg	
208-96-8	Acenaphthylene	43 U	220	43	22	ug/kg	
120-12-7	Anthracene	43 U	220	43	22	ug/kg	
56-55-3	Benzo(a)anthracene	43 U	220	43	22	ug/kg	
50-32-8	Benzo(a)pyrene	43 U	220	43	22	ug/kg	
205-99-2	Benzo(b)fluoranthene	43 U	220	43	22	ug/kg	
191-24-2	Benzo(g,h,i)perylene	43 U	220	43	22	ug/kg	
207-08-9	Benzo(k)fluoranthene	43 U	220	43	22	ug/kg	
218-01-9	Chrysene	43 U	220	43	22	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	43 U	220	43	22	ug/kg	
206-44-0	Fluoranthene	43 U	220	43	22	ug/kg	
86-73-7	Fluorene	43 U	220	43	22	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	43 U	220	43	22	ug/kg	
90-12-0	1-Methylnaphthalene	43 U	220	43	22	ug/kg	
91-57-6	2-Methylnaphthalene	43 U	220	43	22	ug/kg	
91-20-3	Naphthalene	43 U	220	43	22	ug/kg	
85-01-8	Phenanthrene	43 U	220	43	22	ug/kg	
129-00-0	Pyrene	43 U	220	43	22	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	81%		40-105%
321-60-8	2-Fluorobiphenyl	82%		43-107%
1718-51-0	Terphenyl-d14	109%		45-119%

U = Not detected LOD = Limit of Detection J = Indicates an estimated value
LOQ = Limit of Quantitation DL = Detection Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SR859-14		
Lab Sample ID:	FA23189-29	**Date Sampled:**	03/27/15
Matrix:	SO - Soil	**Date Received:**	03/28/15
		Percent Solids:	77.6
Project:	HM-AZ PBR Holloman AFB; Alamogordo, NM		

Metals Analysis

Analyte	Result	LOQ	LOD	DL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Antimony [a]	2.8 U	11	2.8	0.73	mg/kg	10	03/31/15	04/02/15	LM	SW846 6010C [2]	SW846 3050B [3]
Arsenic	1.4	0.57	0.28	0.11	mg/kg	1	03/31/15	04/01/15	LM	SW846 6010C [1]	SW846 3050B [3]
Copper	2.8	1.4	0.11	0.057	mg/kg	1	03/31/15	04/01/15	LM	SW846 6010C [1]	SW846 3050B [3]
Lead [a]	2.3 U	11	2.3	0.57	mg/kg	10	03/31/15	04/02/15	LM	SW846 6010C [2]	SW846 3050B [3]
Zinc [a]	8.3 J	11	2.8	1.7	mg/kg	10	03/31/15	04/02/15	LM	SW846 6010C [2]	SW846 3050B [3]

(1) Instrument QC Batch: MA12310
(2) Instrument QC Batch: MA12315
(3) Prep QC Batch: MP28734

(a) Elevated reporting limit(s) due to matrix interference.

LOQ = Limit of Quantitation
LOD = Limit of Detection
DL = Detection Limit
U = Indicates a result < LOD
J = Indicates a result > = DL (MDL) but < LOQ

Report of Analysis

Client Sample ID:	SR859-14A		
Lab Sample ID:	FA23189-30	**Date Sampled:**	03/27/15
Matrix:	SO - Soil	**Date Received:**	03/28/15
		Percent Solids:	84.9
Project:	HM-AZ PBR Holloman AFB; Alamogordo, NM		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Solids, Percent	84.9		%	1	04/01/15 15:18	LE	SM19 2540G

RL = Reporting Limit

Accutest Laboratories

Report of Analysis

Client Sample ID:	SR859-15		
Lab Sample ID:	FA23189-31	**Date Sampled:**	03/27/15
Matrix:	SO - Soil	**Date Received:**	03/28/15
Method:	SW846 8270D SW846 3550C	**Percent Solids:**	76.3
Project:	HM-AZ PBR Holloman AFB; Alamogordo, NM		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	X039321.D	1	04/01/15	MV	03/31/15	OP55531	SX1828
Run #2							

	Initial Weight	Final Volume
Run #1	29.7 g	1.0 ml
Run #2		

BN PAH List

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
83-32-9	Acenaphthene	44 U	220	44	22	ug/kg	
208-96-8	Acenaphthylene	44 U	220	44	22	ug/kg	
120-12-7	Anthracene	44 U	220	44	22	ug/kg	
56-55-3	Benzo(a)anthracene	44 U	220	44	22	ug/kg	
50-32-8	Benzo(a)pyrene	44 U	220	44	22	ug/kg	
205-99-2	Benzo(b)fluoranthene	44 U	220	44	22	ug/kg	
191-24-2	Benzo(g,h,i)perylene	44 U	220	44	22	ug/kg	
207-08-9	Benzo(k)fluoranthene	44 U	220	44	22	ug/kg	
218-01-9	Chrysene	44 U	220	44	22	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	44 U	220	44	22	ug/kg	
206-44-0	Fluoranthene	44 U	220	44	22	ug/kg	
86-73-7	Fluorene	44 U	220	44	22	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	44 U	220	44	22	ug/kg	
90-12-0	1-Methylnaphthalene	44 U	220	44	22	ug/kg	
91-57-6	2-Methylnaphthalene	44 U	220	44	22	ug/kg	
91-20-3	Naphthalene	44 U	220	44	22	ug/kg	
85-01-8	Phenanthrene	44 U	220	44	22	ug/kg	
129-00-0	Pyrene	44 U	220	44	22	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	73%		40-105%
321-60-8	2-Fluorobiphenyl	75%		43-107%
1718-51-0	Terphenyl-d14	93%		45-119%

U = Not detected LOD = Limit of Detection J = Indicates an estimated value
LOQ = Limit of Quantitation DL = Detection Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SR859-15		
Lab Sample ID:	FA23189-31	**Date Sampled:**	03/27/15
Matrix:	SO - Soil	**Date Received:**	03/28/15
		Percent Solids:	76.3
Project:	HM-AZ PBR Holloman AFB; Alamogordo, NM		

Metals Analysis

Analyte	Result	LOQ	LOD	DL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Antimony [a]	2.3 U	9.1	2.3	0.59	mg/kg	10	03/31/15	04/02/15	LM	SW846 6010C [2]	SW846 3050B [3]
Arsenic	1.1	0.46	0.23	0.091	mg/kg	1	03/31/15	04/01/15	LM	SW846 6010C [1]	SW846 3050B [3]
Copper	1.9	1.1	0.091	0.046	mg/kg	1	03/31/15	04/01/15	LM	SW846 6010C [1]	SW846 3050B [3]
Lead [a]	1.8 U	9.1	1.8	0.46	mg/kg	10	03/31/15	04/02/15	LM	SW846 6010C [2]	SW846 3050B [3]
Zinc [a]	5.0 J	9.1	2.3	1.4	mg/kg	10	03/31/15	04/02/15	LM	SW846 6010C [2]	SW846 3050B [3]

(1) Instrument QC Batch: MA12310
(2) Instrument QC Batch: MA12315
(3) Prep QC Batch: MP28734

(a) Elevated reporting limit(s) due to matrix interference.

LOQ = Limit of Quantitation DL = Detection Limit U = Indicates a result < LOD
LOD = Limit of Detection J = Indicates a result > = DL (MDL) but < LOQ

Report of Analysis

Client Sample ID:	SR859-15A		
Lab Sample ID:	FA23189-32	**Date Sampled:**	03/27/15
Matrix:	SO - Soil	**Date Received:**	03/28/15
		Percent Solids:	79.1
Project:	HM-AZ PBR Holloman AFB; Alamogordo, NM		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Solids, Percent	79.1		%	1	04/01/15 15:18	LE	SM19 2540G

RL = Reporting Limit

Accutest Laboratories

Report of Analysis

Client Sample ID:	SR859-16		
Lab Sample ID:	FA23189-33	**Date Sampled:**	03/27/15
Matrix:	SO - Soil	**Date Received:**	03/28/15
Method:	SW846 8270D SW846 3550C	**Percent Solids:**	78.8
Project:	HM-AZ PBR Holloman AFB; Alamogordo, NM		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	X039322.D	1	04/01/15	MV	03/31/15	OP55531	SX1828
Run #2							

	Initial Weight	Final Volume
Run #1	30.1 g	1.0 ml
Run #2		

BN PAH List

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
83-32-9	Acenaphthene	42 U	210	42	21	ug/kg	
208-96-8	Acenaphthylene	42 U	210	42	21	ug/kg	
120-12-7	Anthracene	42 U	210	42	21	ug/kg	
56-55-3	Benzo(a)anthracene	42 U	210	42	21	ug/kg	
50-32-8	Benzo(a)pyrene	42 U	210	42	21	ug/kg	
205-99-2	Benzo(b)fluoranthene	42 U	210	42	21	ug/kg	
191-24-2	Benzo(g,h,i)perylene	42 U	210	42	21	ug/kg	
207-08-9	Benzo(k)fluoranthene	42 U	210	42	21	ug/kg	
218-01-9	Chrysene	42 U	210	42	21	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	42 U	210	42	21	ug/kg	
206-44-0	Fluoranthene	42 U	210	42	21	ug/kg	
86-73-7	Fluorene	42 U	210	42	21	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	42 U	210	42	21	ug/kg	
90-12-0	1-Methylnaphthalene	42 U	210	42	21	ug/kg	
91-57-6	2-Methylnaphthalene	42 U	210	42	21	ug/kg	
91-20-3	Naphthalene	42 U	210	42	21	ug/kg	
85-01-8	Phenanthrene	42 U	210	42	21	ug/kg	
129-00-0	Pyrene	42 U	210	42	21	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	70%		40-105%
321-60-8	2-Fluorobiphenyl	72%		43-107%
1718-51-0	Terphenyl-d14	92%		45-119%

U = Not detected LOD = Limit of Detection J = Indicates an estimated value
LOQ = Limit of Quantitation DL = Detection Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SR859-16		
Lab Sample ID:	FA23189-33	**Date Sampled:**	03/27/15
Matrix:	SO - Soil	**Date Received:**	03/28/15
		Percent Solids:	78.8
Project:	HM-AZ PBR Holloman AFB; Alamogordo, NM		

Metals Analysis

Analyte	Result	LOQ	LOD	DL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Antimony [a]	2.8 U	11	2.8	0.72	mg/kg	10	03/31/15	04/02/15	LM	SW846 6010C [2]	SW846 3050B [3]
Arsenic	1.6	0.56	0.28	0.11	mg/kg	1	03/31/15	04/01/15	LM	SW846 6010C [1]	SW846 3050B [3]
Copper	4.1	1.4	0.11	0.056	mg/kg	1	03/31/15	04/01/15	LM	SW846 6010C [1]	SW846 3050B [3]
Lead [a]	2.1 J	11	2.2	0.56	mg/kg	10	03/31/15	04/02/15	LM	SW846 6010C [2]	SW846 3050B [3]
Zinc [a]	13.9	11	2.8	1.7	mg/kg	10	03/31/15	04/02/15	LM	SW846 6010C [2]	SW846 3050B [3]

(1) Instrument QC Batch: MA12310
(2) Instrument QC Batch: MA12315
(3) Prep QC Batch: MP28734

(a) Elevated reporting limit(s) due to matrix interference.

LOQ = Limit of Quantitation DL = Detection Limit U = Indicates a result < LOD
LOD = Limit of Detection J = Indicates a result > = DL (MDL) but < LOQ

Report of Analysis

Client Sample ID:	SR859-16A		
Lab Sample ID:	FA23189-34	**Date Sampled:**	03/27/15
Matrix:	SO - Soil	**Date Received:**	03/28/15
		Percent Solids:	78.7
Project:	HM-AZ PBR Holloman AFB; Alamogordo, NM		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Solids, Percent	78.7		%	1	04/01/15 15:36	LE	SM19 2540G

RL = Reporting Limit

Accutest Laboratories

Report of Analysis

Client Sample ID:	SR859-17		
Lab Sample ID:	FA23189-35	**Date Sampled:**	03/27/15
Matrix:	SO - Soil	**Date Received:**	03/28/15
Method:	SW846 8270D SW846 3550C	**Percent Solids:**	78.0
Project:	HM-AZ PBR Holloman AFB; Alamogordo, NM		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	X039323.D	1	04/01/15	MV	03/31/15	OP55531	SX1828
Run #2							

	Initial Weight	Final Volume
Run #1	29.6 g	1.0 ml
Run #2		

BN PAH List

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
83-32-9	Acenaphthene	43 U	220	43	22	ug/kg	
208-96-8	Acenaphthylene	43 U	220	43	22	ug/kg	
120-12-7	Anthracene	43 U	220	43	22	ug/kg	
56-55-3	Benzo(a)anthracene	43 U	220	43	22	ug/kg	
50-32-8	Benzo(a)pyrene	43 U	220	43	22	ug/kg	
205-99-2	Benzo(b)fluoranthene	43 U	220	43	22	ug/kg	
191-24-2	Benzo(g,h,i)perylene	43 U	220	43	22	ug/kg	
207-08-9	Benzo(k)fluoranthene	43 U	220	43	22	ug/kg	
218-01-9	Chrysene	43 U	220	43	22	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	43 U	220	43	22	ug/kg	
206-44-0	Fluoranthene	43 U	220	43	22	ug/kg	
86-73-7	Fluorene	43 U	220	43	22	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	43 U	220	43	22	ug/kg	
90-12-0	1-Methylnaphthalene	43 U	220	43	22	ug/kg	
91-57-6	2-Methylnaphthalene	43 U	220	43	22	ug/kg	
91-20-3	Naphthalene	43 U	220	43	22	ug/kg	
85-01-8	Phenanthrene	43 U	220	43	22	ug/kg	
129-00-0	Pyrene	43 U	220	43	22	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	70%		40-105%
321-60-8	2-Fluorobiphenyl	74%		43-107%
1718-51-0	Terphenyl-d14	90%		45-119%

U = Not detected LOD = Limit of Detection J = Indicates an estimated value
LOQ = Limit of Quantitation DL = Detection Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SR859-17		
Lab Sample ID:	FA23189-35	**Date Sampled:**	03/27/15
Matrix:	SO - Soil	**Date Received:**	03/28/15
		Percent Solids:	78.0
Project:	HM-AZ PBR Holloman AFB; Alamogordo, NM		

Metals Analysis

Analyte	Result	LOQ	LOD	DL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Antimony [a]	2.9 U	12	2.9	0.75	mg/kg	10	03/31/15	04/02/15	LM	SW846 6010C [2]	SW846 3050B [3]
Arsenic	3.9	0.58	0.29	0.12	mg/kg	1	03/31/15	04/01/15	LM	SW846 6010C [1]	SW846 3050B [3]
Copper	4.4	1.4	0.12	0.058	mg/kg	1	03/31/15	04/01/15	LM	SW846 6010C [1]	SW846 3050B [3]
Lead [a]	2.3 U	12	2.3	0.58	mg/kg	10	03/31/15	04/02/15	LM	SW846 6010C [2]	SW846 3050B [3]
Zinc [a]	10.0 J	12	2.9	1.7	mg/kg	10	03/31/15	04/02/15	LM	SW846 6010C [2]	SW846 3050B [3]

(1) Instrument QC Batch: MA12310
(2) Instrument QC Batch: MA12315
(3) Prep QC Batch: MP28734

(a) Elevated reporting limit(s) due to matrix interference.

LOQ = Limit of Quantitation DL = Detection Limit U = Indicates a result < LOD
LOD = Limit of Detection J = Indicates a result > = DL (MDL) but < LOQ

Report of Analysis

Client Sample ID:	SR859-17A		
Lab Sample ID:	FA23189-36	**Date Sampled:**	03/27/15
Matrix:	SO - Soil	**Date Received:**	03/28/15
		Percent Solids:	78.9
Project:	HM-AZ PBR Holloman AFB; Alamogordo, NM		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Solids, Percent	78.9		%	1	04/01/15 15:36	LE	SM19 2540G

RL = Reporting Limit

Accutest Laboratories

Report of Analysis

Client Sample ID:	SR859-18		
Lab Sample ID:	FA23189-37	**Date Sampled:**	03/27/15
Matrix:	SO - Soil	**Date Received:**	03/28/15
Method:	SW846 8270D SW846 3550C	**Percent Solids:**	76.1
Project:	HM-AZ PBR Holloman AFB; Alamogordo, NM		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	X039324.D	1	04/01/15	MV	03/31/15	OP55531	SX1828
Run #2							

	Initial Weight	Final Volume
Run #1	30.0 g	1.0 ml
Run #2		

BN PAH List

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
83-32-9	Acenaphthene	44 U	220	44	22	ug/kg	
208-96-8	Acenaphthylene	44 U	220	44	22	ug/kg	
120-12-7	Anthracene	44 U	220	44	22	ug/kg	
56-55-3	Benzo(a)anthracene	44 U	220	44	22	ug/kg	
50-32-8	Benzo(a)pyrene	44 U	220	44	22	ug/kg	
205-99-2	Benzo(b)fluoranthene	44 U	220	44	22	ug/kg	
191-24-2	Benzo(g,h,i)perylene	44 U	220	44	22	ug/kg	
207-08-9	Benzo(k)fluoranthene	44 U	220	44	22	ug/kg	
218-01-9	Chrysene	44 U	220	44	22	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	44 U	220	44	22	ug/kg	
206-44-0	Fluoranthene	44 U	220	44	22	ug/kg	
86-73-7	Fluorene	44 U	220	44	22	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	44 U	220	44	22	ug/kg	
90-12-0	1-Methylnaphthalene	44 U	220	44	22	ug/kg	
91-57-6	2-Methylnaphthalene	44 U	220	44	22	ug/kg	
91-20-3	Naphthalene	44 U	220	44	22	ug/kg	
85-01-8	Phenanthrene	44 U	220	44	22	ug/kg	
129-00-0	Pyrene	44 U	220	44	22	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	71%		40-105%
321-60-8	2-Fluorobiphenyl	73%		43-107%
1718-51-0	Terphenyl-d14	95%		45-119%

U = Not detected LOD = Limit of Detection J = Indicates an estimated value
LOQ = Limit of Quantitation DL = Detection Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SR859-18		
Lab Sample ID:	FA23189-37	**Date Sampled:**	03/27/15
Matrix:	SO - Soil	**Date Received:**	03/28/15
		Percent Solids:	76.1
Project:	HM-AZ PBR Holloman AFB; Alamogordo, NM		

Metals Analysis

Analyte	Result	LOQ	LOD	DL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Antimony [a]	2.8 U	11	2.8	0.74	mg/kg	10	03/31/15	04/02/15	LM	SW846 6010C [2]	SW846 3050B [3]
Arsenic	1.8	0.57	0.28	0.11	mg/kg	1	03/31/15	04/01/15	LM	SW846 6010C [1]	SW846 3050B [3]
Copper	2.9	1.4	0.11	0.057	mg/kg	1	03/31/15	04/01/15	LM	SW846 6010C [1]	SW846 3050B [3]
Lead [a]	2.3 U	11	2.3	0.57	mg/kg	10	03/31/15	04/02/15	LM	SW846 6010C [2]	SW846 3050B [3]
Zinc [a]	8.0 J	11	2.8	1.7	mg/kg	10	03/31/15	04/02/15	LM	SW846 6010C [2]	SW846 3050B [3]

(1) Instrument QC Batch: MA12310
(2) Instrument QC Batch: MA12315
(3) Prep QC Batch: MP28734

(a) Elevated reporting limit(s) due to matrix interference.

LOQ = Limit of Quantitation DL = Detection Limit U = Indicates a result < LOD
LOD = Limit of Detection J = Indicates a result > = DL (MDL) but < LOQ

Report of Analysis

Client Sample ID:	SR859-18A		
Lab Sample ID:	FA23189-38	**Date Sampled:**	03/27/15
Matrix:	SO - Soil	**Date Received:**	03/28/15
		Percent Solids:	79.9
Project:	HM-AZ PBR Holloman AFB; Alamogordo, NM		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Solids, Percent	79.9		%	1	04/01/15 15:36	LE	SM19 2540G

RL = Reporting Limit

Accutest Laboratories

Report of Analysis

Client Sample ID:	SR859-19		
Lab Sample ID:	FA23189-39	**Date Sampled:**	03/27/15
Matrix:	SO - Soil	**Date Received:**	03/28/15
Method:	SW846 8270D SW846 3550C	**Percent Solids:**	77.9
Project:	HM-AZ PBR Holloman AFB; Alamogordo, NM		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	X039325.D	1	04/01/15	MV	03/31/15	OP55531	SX1828
Run #2							

	Initial Weight	Final Volume
Run #1	30.0 g	1.0 ml
Run #2		

BN PAH List

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
83-32-9	Acenaphthene	43 U	210	43	21	ug/kg	
208-96-8	Acenaphthylene	43 U	210	43	21	ug/kg	
120-12-7	Anthracene	43 U	210	43	21	ug/kg	
56-55-3	Benzo(a)anthracene	43 U	210	43	21	ug/kg	
50-32-8	Benzo(a)pyrene	43 U	210	43	21	ug/kg	
205-99-2	Benzo(b)fluoranthene	43 U	210	43	21	ug/kg	
191-24-2	Benzo(g,h,i)perylene	43 U	210	43	21	ug/kg	
207-08-9	Benzo(k)fluoranthene	43 U	210	43	21	ug/kg	
218-01-9	Chrysene	43 U	210	43	21	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	43 U	210	43	21	ug/kg	
206-44-0	Fluoranthene	43 U	210	43	21	ug/kg	
86-73-7	Fluorene	43 U	210	43	21	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	43 U	210	43	21	ug/kg	
90-12-0	1-Methylnaphthalene	43 U	210	43	21	ug/kg	
91-57-6	2-Methylnaphthalene	43 U	210	43	21	ug/kg	
91-20-3	Naphthalene	43 U	210	43	21	ug/kg	
85-01-8	Phenanthrene	43 U	210	43	21	ug/kg	
129-00-0	Pyrene	43 U	210	43	21	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	81%		40-105%
321-60-8	2-Fluorobiphenyl	85%		43-107%
1718-51-0	Terphenyl-d14	107%		45-119%

U = Not detected LOD = Limit of Detection J = Indicates an estimated value
LOQ = Limit of Quantitation DL = Detection Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SR859-19		
Lab Sample ID:	FA23189-39	**Date Sampled:**	03/27/15
Matrix:	SO - Soil	**Date Received:**	03/28/15
		Percent Solids:	77.9
Project:	HM-AZ PBR Holloman AFB; Alamogordo, NM		

Metals Analysis

Analyte	Result	LOQ	LOD	DL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Antimony [a]	1.2 J	11	2.8	0.73	mg/kg	10	04/03/15	04/03/15	LM	SW846 6010C [1]	SW846 3050B [3]
Arsenic [a]	1.5 J	5.6	2.8	1.1	mg/kg	10	04/03/15	04/03/15	LM	SW846 6010C [1]	SW846 3050B [3]
Copper [a]	2.2 J	14	1.1	0.56	mg/kg	10	04/03/15	04/03/15	LM	SW846 6010C [1]	SW846 3050B [3]
Lead [b]	1.5 J	11	2.2	0.56	mg/kg	10	04/03/15	04/06/15	LM	SW846 6010C [2]	SW846 3050B [3]

(1) Instrument QC Batch: MA12317
(2) Instrument QC Batch: MA12320
(3) Prep QC Batch: MP28752

(a) Sample dilution required due to difficult matrix.
(b) Elevated reporting limit(s) due to matrix interference.

LOQ = Limit of Quantitation DL = Detection Limit U = Indicates a result < LOD
LOD = Limit of Detection J = Indicates a result > = DL (MDL) but < LOQ

Report of Analysis

Client Sample ID:	SR859-19A		
Lab Sample ID:	FA23189-40	**Date Sampled:**	03/27/15
Matrix:	SO - Soil	**Date Received:**	03/28/15
		Percent Solids:	77.0
Project:	HM-AZ PBR Holloman AFB; Alamogordo, NM		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Solids, Percent	77		%	1	04/01/15 15:36	LE	SM19 2540G

RL = Reporting Limit

Accutest Laboratories

Report of Analysis

Client Sample ID:	SR859-20		
Lab Sample ID:	FA23189-41	**Date Sampled:**	03/27/15
Matrix:	SO - Soil	**Date Received:**	03/28/15
Method:	SW846 8270D SW846 3550C	**Percent Solids:**	78.9
Project:	HM-AZ PBR Holloman AFB; Alamogordo, NM		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	X039326.D	1	04/01/15	MV	03/31/15	OP55531	SX1828
Run #2							

	Initial Weight	Final Volume
Run #1	30.0 g	1.0 ml
Run #2		

BN PAH List

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
83-32-9	Acenaphthene	42 U	210	42	21	ug/kg	
208-96-8	Acenaphthylene	42 U	210	42	21	ug/kg	
120-12-7	Anthracene	42 U	210	42	21	ug/kg	
56-55-3	Benzo(a)anthracene	42 U	210	42	21	ug/kg	
50-32-8	Benzo(a)pyrene	42 U	210	42	21	ug/kg	
205-99-2	Benzo(b)fluoranthene	42 U	210	42	21	ug/kg	
191-24-2	Benzo(g,h,i)perylene	42 U	210	42	21	ug/kg	
207-08-9	Benzo(k)fluoranthene	42 U	210	42	21	ug/kg	
218-01-9	Chrysene	42 U	210	42	21	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	42 U	210	42	21	ug/kg	
206-44-0	Fluoranthene	42 U	210	42	21	ug/kg	
86-73-7	Fluorene	42 U	210	42	21	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	42 U	210	42	21	ug/kg	
90-12-0	1-Methylnaphthalene	42 U	210	42	21	ug/kg	
91-57-6	2-Methylnaphthalene	42 U	210	42	21	ug/kg	
91-20-3	Naphthalene	42 U	210	42	21	ug/kg	
85-01-8	Phenanthrene	42 U	210	42	21	ug/kg	
129-00-0	Pyrene	42 U	210	42	21	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	75%		40-105%
321-60-8	2-Fluorobiphenyl	77%		43-107%
1718-51-0	Terphenyl-d14	98%		45-119%

U = Not detected LOD = Limit of Detection J = Indicates an estimated value
LOQ = Limit of Quantitation DL = Detection Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SR859-20		
Lab Sample ID:	FA23189-41	**Date Sampled:**	03/27/15
Matrix:	SO - Soil	**Date Received:**	03/28/15
		Percent Solids:	78.9
Project:	HM-AZ PBR Holloman AFB; Alamogordo, NM		

Metals Analysis

Analyte	Result	LOQ	LOD	DL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Antimony [a]	0.76 J	10	2.6	0.67	mg/kg	10	04/03/15	04/03/15	LM	SW846 6010C [1]	SW846 3050B [3]
Arsenic [a]	1.9 J	5.2	2.6	1.0	mg/kg	10	04/03/15	04/03/15	LM	SW846 6010C [1]	SW846 3050B [3]
Copper [a]	2.6 J	13	1.0	0.52	mg/kg	10	04/03/15	04/03/15	LM	SW846 6010C [1]	SW846 3050B [3]
Lead [b]	2.2 J	10	2.1	0.52	mg/kg	10	04/03/15	04/06/15	LM	SW846 6010C [2]	SW846 3050B [3]

(1) Instrument QC Batch: MA12317
(2) Instrument QC Batch: MA12320
(3) Prep QC Batch: MP28752

(a) Sample dilution required due to difficult matrix.
(b) Elevated reporting limit(s) due to matrix interference.

LOQ = Limit of Quantitation DL = Detection Limit U = Indicates a result < LOD
LOD = Limit of Detection J = Indicates a result > = DL (MDL) but < LOQ

Report of Analysis

Client Sample ID:	SR859-20A		
Lab Sample ID:	FA23189-42	**Date Sampled:**	03/27/15
Matrix:	SO - Soil	**Date Received:**	03/28/15
		Percent Solids:	76.6
Project:	HM-AZ PBR Holloman AFB; Alamogordo, NM		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Solids, Percent	76.6		%	1	04/01/15 15:36	LE	SM19 2540G

RL = Reporting Limit

Accutest Laboratories

Report of Analysis

Client Sample ID:	SR859-EB1		
Lab Sample ID:	FA23189-43	**Date Sampled:**	03/26/15
Matrix:	AQ - Equipment Blank	**Date Received:**	03/28/15
Method:	SW846 8270D BY SIM SW846 3510C	**Percent Solids:**	n/a
Project:	HM-AZ PBR Holloman AFB; Alamogordo, NM		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	T017711.D	1	04/06/15	MG	03/31/15	OP55540	ST810
Run #2							

	Initial Volume	Final Volume
Run #1	230 ml	1.0 ml
Run #2		

BN PAH List

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
83-32-9	Acenaphthene	0.43 U	0.87	0.43	0.35	ug/l	
208-96-8	Acenaphthylene	0.43 U	0.87	0.43	0.35	ug/l	
120-12-7	Anthracene	0.43 U	0.87	0.43	0.22	ug/l	
56-55-3	Benzo(a)anthracene	0.043 U	0.17	0.043	0.035	ug/l	
50-32-8	Benzo(a)pyrene	0.043 U	0.17	0.043	0.035	ug/l	
205-99-2	Benzo(b)fluoranthene	0.043 U	0.17	0.043	0.035	ug/l	
191-24-2	Benzo(g,h,i)perylene	0.043 U	0.17	0.043	0.035	ug/l	
207-08-9	Benzo(k)fluoranthene	0.043 U	0.17	0.043	0.035	ug/l	
218-01-9	Chrysene	0.087 U	0.17	0.087	0.035	ug/l	
53-70-3	Dibenzo(a,h)anthracene	0.043 U	0.17	0.043	0.035	ug/l	
206-44-0	Fluoranthene	0.43 U	0.87	0.43	0.22	ug/l	
86-73-7	Fluorene	0.43 U	0.87	0.43	0.22	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	0.043 U	0.17	0.043	0.035	ug/l	
90-12-0	1-Methylnaphthalene	0.43 U	0.87	0.43	0.35	ug/l	
91-57-6	2-Methylnaphthalene	0.43 U	0.87	0.43	0.35	ug/l	
91-20-3	Naphthalene	0.43 U	0.87	0.43	0.35	ug/l	
85-01-8	Phenanthrene	0.43 U	0.87	0.43	0.22	ug/l	
129-00-0	Pyrene	0.43 U	0.87	0.43	0.22	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	83%		41-129%
321-60-8	2-Fluorobiphenyl	80%		41-118%
1718-51-0	Terphenyl-d14	81%		45-145%

U = Not detected LOD = Limit of Detection J = Indicates an estimated value
LOQ = Limit of Quantitation DL = Detection Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SR859-EB1		
Lab Sample ID:	FA23189-43	**Date Sampled:**	03/26/15
Matrix:	AQ - Equipment Blank	**Date Received:**	03/28/15
		Percent Solids:	n/a
Project:	HM-AZ PBR Holloman AFB; Alamogordo, NM		

Total Metals Analysis

Analyte	Result	LOQ	LOD	DL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Antimony	5.0 U	6.0	5.0	1.0	ug/l	1	03/31/15	03/31/15	LM	SW846 6010C [1]	SW846 3010A [2]
Arsenic	5.0 U	10	5.0	1.3	ug/l	1	03/31/15	03/31/15	LM	SW846 6010C [1]	SW846 3010A [2]
Copper	5.5 J	25	2.0	1.0	ug/l	1	03/31/15	03/31/15	LM	SW846 6010C [1]	SW846 3010A [2]
Lead	2.0 U	5.0	2.0	1.1	ug/l	1	03/31/15	03/31/15	LM	SW846 6010C [1]	SW846 3010A [2]
Zinc	9.8 J	20	5.0	4.4	ug/l	1	03/31/15	03/31/15	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA12307
(2) Prep QC Batch: MP28731

LOQ = Limit of Quantitation DL = Detection Limit U = Indicates a result < LOD
LOD = Limit of Detection J = Indicates a result > = DL (MDL) but < LOQ

Southeast ACCUTEST LABORATORIES

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody
- QC Evaluation: DOD QSM5 Limits

ACCUTEST LABORATORIES

Accutest Laboratories Southeast
Chain of Custody

4405 Vineland Road, Suite C-15 Orlando, Fl 32811
TEL. 407-425-6700 • FAX: 407-425-0707
www.accutest.com

Accutest JOB # FA23189 PAGE 2 OF 4

Accutest Quote # | SKIFF#

Client / Reporting Information

Company Name: FPM
Address: 584 Phoenix Dr
City: Rome State: NY Zip: 13441
Project Contact: P. Conkling Email: pconkling@
Phone#: 315 336 7721
Sampler(s) Name(s) (Printed): J Schossnagle

Project Information

Project Name: Hollomon AFB
Street
City State
Project #
Fax #
Client Purchase Order #

Analytical Information / **Matrix Codes**

DW - Drinking Water
GW - Ground Water
WW - Water
SW - Surface Water
SO - Soil
SL - Sludge
OI - Oil
LIQ - Other Liquid
AIR - Air
SOL - Other Solid
WP - Wipe

Accutest Sample #	Field ID / Point of Collection	DATE	TIME	SAMPLED BY:	MATRIX	TOTAL # OF BOTTLES	OTHER	NONE	HCl	NaOH	HNO3	H2SO4	NaOH+ZNAC	DI WATER	MEOH	Metals	PAH	SPLP metals/PAH									LAB USE ONLY
13	SR859-7	3/26	1405	TS	SO	1		1								1	1	1									
14	SR859-10T	3/26	1410	TS	SO	1		1								1	1	1									
15	SR859-7a	3/26	1420	TS	SO	1		1								1	1	1									
16	SR859-8	3/26	1435	TS	SO	1		1								1	1	1									
17	SR859-8a	3/26	1445	TS	SO	1		1								1	1	1									
18	SR859-9	3/26	1500	TS	SO	1		1								1	1	1									
19	SR859-9a	3/26	1510	TS	SO	1		1								1	1	1									
	SR859-10	3/26	1520	TS	SO	1		1								1	1	1									
20	SR859-10MS	3/26	1530	TS	SO	1		1								1	1	1									
	SR859-10MSD	3/26	1530	TS	SO	1		1								1	1	1									
21	SR859-10a	3/26	1540	TS	SO	1		1								1	1	1									
22	SR859-11	3/26	1555	TS	SO	1		1								1	1	1									

TURNAROUND TIME (Business Days)

Approved By: / Rush Code

- [ ] 10 Days Standard
- [x] 7 Day RUSH
- [ ] 5 Day RUSH
- [ ] 3 Day EMERGENCY
- [ ] 2 Day EMERGENCY
- [ ] 1 Day EMERGENCY
- [ ] OTHER

Emergency or Rush T/A Data Available VIA Email or Lablink

Data Deliverable Information

- [ ] COMMERCIAL "A" (RESULTS ONLY)
- [ ] COMMERCIAL "B" (RESULTS PLUS QC)
- [ ] REDT1 (EPA LEVEL 3)
- [ ] FULT1 (EPA LEVEL 4)
- [ ] EDD'S

Comments / Remarks

HOLD "A" label samples
HOLD SPLP

Sample Custody must be documented below each time samples change possession, including courier delivery.

Relinquished by Sampler:	Date Time:	Received By:	Relinquished by:	Date Time:	Received By:
1	3/27 1530	2 FP	3 FP 03.28.15	11:00	4
Relinquished by: 5	Date Time:	Received By: 6	Relinquished by: 7	Date Time:	Received By: 8

Lab Use Only: Custody Seal in Place: Y N Temp Blank Provided: Y N Preserved where Applicable: Y N Total # of Coolers: Cooler Temperature (s) Celsius: _____

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FA23189: Chain of Custody
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Accutest Laboratories Southeast
Chain of Custody

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www.accutest.com

Accutest JOB # FA23189 PAGE 3 OF 4

Accutest Quote # | SKIFF#

Client / Reporting Information

Company Name: FPM
Address: 384 Phoenix Dr
City: Rome State: NY Zip: 13441
Project Contact: Carballeira E-mail:
Phone#: 315 336 7721
Sampler(s) Name(s) (Printed):

Project Information

Project Name: Hollaman AFB
Street:
City: State:
Project #:
Fax #:
Client Purchase Order #:

Analytical Information

Matrix Codes: DW - Drinking Water; GW - Ground Water; WW - Water; SW - Surface Water; SO - Soil; SL - Sludge; OI - Oil; LIQ - Other Liquid; AIR - Air; SOL - Other Solid; WP - Wipe

Accutest Sample #	Field ID / Point of Collection	Date	Time	Sampled By	Matrix	Total # of Bottles	Other	None	HCl	NaOH	HNO3	H2SO4	NaOH+ZnAc	DI Water	MeOH	Metals	PAH	SPLP metals/PAH	LAB USE ONLY
23	SR859-11a	3/26	1605	TS	SO	1		1								1	1	1	
24	SR859-12	3/26	1625	TS	SO	1		1								1	1	1	
25	SR859-112	3/26	1630	TS	SO	1		1								1	1	1	
26	SR859-12a	3/26	1635	TS	SO	1		1								1	1	1	
27	SR859-13	3/27	815	TS	SO	1		1								1	1	1	
28	SR859-13a	3/27	825	TS	SO	1		1								1	1	1	
29	SR859-14	3/27	830	TS	SO	1		1								1	1	1	
30	SR859-14a	3/27	840	TS	SO	1		1								1	1	1	
31	SR859-15	3/27	850	TS	SO	1		1								1	1	1	
32	SR859-15a	3/27	900	TS	SO	1		1								1	1	1	
33	SR859-16	3/27	915	TS	SO	1		1								1	1	1	
34	SR859-16a	3/27	925	TS	SO	1		1								1	1	1	

TURNAROUND TIME (Business Days)

Approved By: / Rush Code

- [ ] 10 Days Standard
- [x] 7 Day RUSH
- [ ] 5 Day RUSH
- [ ] 3 Day EMERGENCY
- [ ] 2 Day EMERGENCY
- [ ] 1 Day EMERGENCY
- [ ] OTHER

Emergency or Rush T/A Data Available VIA Email or Lablink

Data Deliverable Information

- [ ] COMMERCIAL "A" (RESULTS ONLY)
- [ ] COMMERCIAL "B" (RESULTS PLUS QC)
- [ ] REDT1 (EPA LEVEL 3)
- [ ] FULT1 (EPA LEVEL 4)
- [ ] EDD'S

Comments / Remarks

Hold "A" samples
HOLD SPLP

Sample Custody must be documented below each time samples change possession, including courier delivery.

Relinquished by Sampler:	Date Time:	Received By:	Relinquished by:	Date Time:	Received By:
	3/27 1530	2 FP	3 FP 032815	11:00	4
Relinquished by: 5	Date Time:	Received By: 6	Relinquished by: 7	Date Time:	Received By: 8

Lab Use Only: Custody Seal in Place: Y N Temp Blank Provided: Y N Preserved where Applicable: Y N Total # of Coolers: Cooler Temperature (s) Celsius:

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FA23189: Chain of Custody
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Accutest Laboratories Southeast
Chain of Custody

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www.accutest.com

Accutest JOB # FA23189 PAGE 4 OF 4

Accutest Quote # | SKIFF#

Client / Reporting Information

Company Name: FPM
Address: 584 Phoenix Dr
City: Rome State: NY Zip:
Project Contact: Corigliano E-mail:
Phone#: 315 336 7721
Sampler(s) Name(s) (Printed):

Project Information

Project Name: Hollman AFB
Street:
City: State:
Project #:
Fax #:
Client Purchase Order #:

Analytical Information

Matrix Codes: DW - Drinking Water; GW - Ground Water; WW - Water; SW - Surface Water; SO - Soil; SL - Sludge; OI - Oil; LIQ - Other Liquid; AIR - Air; SOL - Other Solid; WP - Wipe

Accutest Sample #	Field ID / Point of Collection	Collection DATE	TIME	SAMPLED BY:	MATRIX	TOTAL # OF BOTTLES	OTHER	NONE	HCl	NaOH	HNO3	H2SO4	NAOH+ZNAC	DI WATER	MEOH	Metals	PAH	SPLP metals	LAB USE ONLY
35	SR8S9-17	3/27	940	TS	SO	1		1								1	1	1	
36	SR8S9-17a	3/27	950	TS	SO	1		1								1	1	1	
37	SR8S9-18	3/27	1005	TS	SO	1		1								1	1	1	
38	SR8S9-18a	3/27	1015	TS	SO	1		1								1	1	1	
39	SR8S9-19	3/27	1030	TS	SO	1		1								1	1	1	
40	SR8S9-19a	3/27	1045	TS	SO	1		1								1	1	1	
41	SR8S9-20	3/27	1100	TS	SO	1		1								1	1	1	
42	SR8S9-20a	3/27	1120	TS	SO	1		1								1	1	1	
43	SR8S9-EB1	3/26	1600	TS	GW	3		2	1							1	2		

TURNAROUND TIME (Business Days)

Approved By: / Rush Code

- ☐ 10 Days Standard
- ☒ 7 Day RUSH
- ☐ 5 Day RUSH
- ☐ 3 Day EMERGENCY
- ☐ 2 Day EMERGENCY
- ☐ 1 Day EMERGENCY
- ☐ OTHER

Emergency or Rush T/A Data Available VIA Email or Lablink

Data Deliverable Information

- ☐ COMMERCIAL "A" (RESULTS ONLY)
- ☐ COMMERCIAL "B" (RESULTS PLUS QC)
- ☐ REDT1 (EPA LEVEL 3)
- ☐ FULT1 (EPA LEVEL 4)
- ☐ EDD'S

Comments / Remarks

HOLD "A" samples
HOLD SPLP

Sample Custody must be documented below each time samples change possession, including courier delivery.

Relinquished by Sampler:	Date Time:	Received By:	Relinquished by:	Date Time:	Received By:
1	3/27 1530	2	3 FF 03.28.15	11:00	4
Relinquished by: 5	Date Time:	Received By: 6	Relinquished by: 7	Date Time:	Received By: 8

Lab Use Only: Custody Seal In Place: Y N Temp Blank Provided: Y N Preserved where Applicable: Y N Total # of Coolers: Cooler Temperature (s) Celsius:

ACCUTEST LABORATORIES SAMPLE RECEIPT CONFIRMATION

ACCUTEST'S JOB NUMBER: FA23189 CLIENT: FPM PROJECT: Holloman AFB

DATE/TIME RECEIVED: 03-28-15 11:00 {MM/DD/YY 24:00} NUMBER OF COOLERS RECEIVED: 4 3

METHOD OF DELIVERY: (FEDEX) UPS ACCUTEST COURIER DELIVERY OTHER: _____

AIRBILL NUMBERS: 8066 1758 1385

COOLER INFORMATION

- [ ] CUSTODY SEAL NOT PRESENT OR NOT INTACT
- [ ] CHAIN OF CUSTODY NOT RECEIVED (COC)
- [ ] ANALYSIS REQUESTED IS UNCLEAR OR MISSING
- [ ] SAMPLE DATES OR TIMES UNCLEAR OR MISSING
- [ ] TEMPERATURE CRITERIA NOT MET

TRIP BLANK INFORMATION

- [ ] TRIP BLANK PROVIDED
- [x] TRIP BLANK NOT PROVIDED
- [x] TRIP BLANK NOT ON COC
- [ ] TRIP BLANK INTACT
- [ ] TRIP BLANK NOT INTACT
- [ ] RECEIVED WATER TRIP BLANK
- [ ] RECEIVED SOIL TRIP BLANK

MISC. INFORMATION

NUMBER OF ENCORES ? 25-GRAM_____ 5-GRAM_____

NUMBER OF 5035 FIELD KITS ? _____

NUMBER OF LAB FILTERED METALS ? _____

TEMPERATURE INFORMATION

- [ ] IR THERM ID 1 CORR. FACTOR -0.2
- [ ] OBSERVED TEMPS: 24 22 26
- [ ] CORRECTED TEMPS: 22, 2.024

SAMPLE INFORMATION

- [ ] INCORRECT NUMBER OF CONTAINERS USED
- [ ] SAMPLE RECEIVED IMPROPERLY PRESERVED
- [ ] INSUFFICIENT VOLUME FOR ANALYSIS
- [ ] DATES/TIMES ON COC DO NOT MATCH SAMPLE LABEL
- [ ] ID'S ON COC DO NOT MATCH LABEL
- [ ] VOC VIALS HAVE HEADSPACE (MACRO BUBBLES)
- [ ] BOTTLES RECEIVED BUT ANALYSIS NOT REQUESTED
- [ ] NO BOTTLES RECEIVED FOR ANALYSIS REQUESTED
- [ ] UNCLEAR FILTERING OR COMPOSITING INSTRUCTIONS
- [ ] SAMPLE CONTAINER(S) RECEIVED BROKEN
- [ ] 5035 FIELD KITS NOT RECEIVED WITHIN 48 HOURS
- [ ] BULK VOA SOIL JARS NOT RECEIVED WITHIN 48 HOURS
- [ ] % SOLIDS JAR NOT RECEIVED
- [ ] RESIDUAL CHLORINE PRESENT LOT#_____

{APPLICABLE TO EPA 600 SERIES OR NORTH CAROLINA ORGANICS}

pH PAPER LOT#s WIDE RANGE A036122 NARROW RANGE (HC421754) OTHER (specify) 405-230010

SUMMARY OF COMMENTS: 250 ml (8270) Sample 43

TECHNICIAN SIGNATURE/DATE 03-28-15 REVIEWER SIGNATURE/DATE 03/28/15

NF 10/14

receipt confirmation 102914.xls

5.1

5

FA23189: Chain of Custody

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FedEx. 1 of 3
TRK# 0215 8066 1758 1385
MASTER
SATURDAY 12:00P
PRIORITY OVERNIGHT
X0 TIXA
32811
FL-US
MCO
FID 478728 27MAR15 ELPA 622C1/879A/65DD

FedEx. 2 of 3
MPS# 0260 8033 4381 8289
Mstr# 8066 1758 1385 0215
SATURDAY 12:00P
PRIORITY OVERNIGHT
X0 TIXA
32811
FL-US
MCO

FedEx. 3 of 3
MPS# 0260 8033 4381 8304
Mstr# 8066 1758 1385 0215
SATURDAY 12:00P
PRIORITY OVERNIGHT
X0 TIXA
32811
FL-US
MCO
FID 478728 27MAR15 ELPA 622C1/879A/65DD

5.1 5

FA23189: Chain of Custody
Page 5 of 5

QC Evaluation: DOD QSM5 Limits

Job Number: FA23189
Account: FPM Remediations
Project: HM-AZ PBR Holloman AFB; Alamogordo, NM
Collected: 03/26/15 thru 03/27/15

QC Sample ID	CAS#	Analyte	Sample Type	Result Type	Result	Units	Limits
OP55512	SW846 8270D						
OP55512-BS	83-32-9	Acenaphthene	BSP	REC	96	%	40-123
OP55512-BS	83-32-9	Acenaphthene	BSP	REC	91	%	40-123
OP55512-BS	208-96-8	Acenaphthylene	BSP	REC	91	%	32-132
OP55512-BS	208-96-8	Acenaphthylene	BSP	REC	94	%	32-132
OP55512-BS	120-12-7	Anthracene	BSP	REC	92	%	47-123
OP55512-BS	120-12-7	Anthracene	BSP	REC	96	%	47-123
OP55512-BS	56-55-3	Benzo(a)anthracene	BSP	REC	94	%	49-126
OP55512-BS	56-55-3	Benzo(a)anthracene	BSP	REC	94	%	49-126
OP55512-BS	50-32-8	Benzo(a)pyrene	BSP	REC	92	%	45-129
OP55512-BS	50-32-8	Benzo(a)pyrene	BSP	REC	93	%	45-129
OP55512-BS	205-99-2	Benzo(b)fluoranthene	BSP	REC	95	%	45-132
OP55512-BS	205-99-2	Benzo(b)fluoranthene	BSP	REC	95	%	45-132
OP55512-BS	191-24-2	Benzo(g,h,i)perylene	BSP	REC	100	%	43-134
OP55512-BS	191-24-2	Benzo(g,h,i)perylene	BSP	REC	92	%	43-134
OP55512-BS	207-08-9	Benzo(k)fluoranthene	BSP	REC	93	%	47-132
OP55512-BS	207-08-9	Benzo(k)fluoranthene	BSP	REC	97	%	47-132
OP55512-BS	218-01-9	Chrysene	BSP	REC	95	%	50-124
OP55512-BS	218-01-9	Chrysene	BSP	REC	93	%	50-124
OP55512-BS	53-70-3	Dibenzo(a,h)anthracene	BSP	REC	97	%	45-134
OP55512-BS	53-70-3	Dibenzo(a,h)anthracene	BSP	REC	89	%	45-134
OP55512-BS	206-44-0	Fluoranthene	BSP	REC	95	%	50-127
OP55512-BS	206-44-0	Fluoranthene	BSP	REC	91	%	50-127
OP55512-BS	86-73-7	Fluorene	BSP	REC	95	%	43-125
OP55512-BS	86-73-7	Fluorene	BSP	REC	92	%	43-125
OP55512-BS	193-39-5	Indeno(1,2,3-cd)pyrene	BSP	REC	90	%	45-133
OP55512-BS	193-39-5	Indeno(1,2,3-cd)pyrene	BSP	REC	83	%	45-133
OP55512-BS	90-12-0	1-Methylnaphthalene	BSP	REC	103	%	40-119
OP55512-BS	90-12-0	1-Methylnaphthalene	BSP	REC	98	%	40-119
OP55512-BS	91-57-6	2-Methylnaphthalene	BSP	REC	78	%	38-122
OP55512-BS	91-57-6	2-Methylnaphthalene	BSP	REC	82	%	38-122
OP55512-BS	91-20-3	Naphthalene	BSP	REC	83	%	35-123
OP55512-BS	91-20-3	Naphthalene	BSP	REC	79	%	35-123
OP55512-BS	85-01-8	Phenanthrene	BSP	REC	93	%	50-121
OP55512-BS	85-01-8	Phenanthrene	BSP	REC	96	%	50-121
OP55512-BS	129-00-0	Pyrene	BSP	REC	92	%	47-127
OP55512-BS	129-00-0	Pyrene	BSP	REC	96	%	47-127
OP55512-BS	4165-60-0	Nitrobenzene-d5	BSP	SURR	82	%	37-122
OP55512-BS	4165-60-0	Nitrobenzene-d5	BSP	SURR	79	%	37-122
OP55512-BS	321-60-8	2-Fluorobiphenyl	BSP	SURR	86	%	44-115
OP55512-BS	321-60-8	2-Fluorobiphenyl	BSP	SURR	89	%	44-115
OP55512-BS	1718-51-0	Terphenyl-d14	BSP	SURR	97	%	54-127
OP55512-BS	1718-51-0	Terphenyl-d14	BSP	SURR	94	%	54-127

* Sample used for QC is not from job FA23189

QC Evaluation: DOD QSM5 Limits

Job Number: FA23189
Account: FPM Remediations
Project: HM-AZ PBR Holloman AFB; Alamogordo, NM
Collected: 03/26/15 thru 03/27/15

QC Sample ID	CAS#	Analyte	Sample Type	Result Type	Result	Units	Limits
OP55512-MS*	83-32-9	Acenaphthene	MS	REC	85	%	40-123
OP55512-MS*	208-96-8	Acenaphthylene	MS	REC	84	%	32-132
OP55512-MS*	120-12-7	Anthracene	MS	REC	87	%	47-123
OP55512-MS*	56-55-3	Benzo(a)anthracene	MS	REC	85	%	49-126
OP55512-MS*	50-32-8	Benzo(a)pyrene	MS	REC	83	%	45-129
OP55512-MS*	205-99-2	Benzo(b)fluoranthene	MS	REC	84	%	45-132
OP55512-MS*	191-24-2	Benzo(g,h,i)perylene	MS	REC	80	%	43-134
OP55512-MS*	207-08-9	Benzo(k)fluoranthene	MS	REC	87	%	47-132
OP55512-MS*	218-01-9	Chrysene	MS	REC	86	%	50-124
OP55512-MS*	53-70-3	Dibenzo(a,h)anthracene	MS	REC	78	%	45-134
OP55512-MS*	206-44-0	Fluoranthene	MS	REC	87	%	50-127
OP55512-MS*	86-73-7	Fluorene	MS	REC	86	%	43-125
OP55512-MS*	193-39-5	Indeno(1,2,3-cd)pyrene	MS	REC	73	%	45-133
OP55512-MS*	90-12-0	1-Methylnaphthalene	MS	REC	89	%	40-119
OP55512-MS*	91-57-6	2-Methylnaphthalene	MS	REC	70	%	38-122
OP55512-MS*	91-20-3	Naphthalene	MS	REC	72	%	35-123
OP55512-MS*	85-01-8	Phenanthrene	MS	REC	87	%	50-121
OP55512-MS*	129-00-0	Pyrene	MS	REC	89	%	47-127
OP55512-MS*	4165-60-0	Nitrobenzene-d5	MS	SURR	69	%	37-122
OP55512-MS*	321-60-8	2-Fluorobiphenyl	MS	SURR	78	%	44-115
OP55512-MS*	1718-51-0	Terphenyl-d14	MS	SURR	85	%	54-127
OP55512-MSD*	83-32-9	Acenaphthene	MSD	REC	76	%	40-123
OP55512-MSD*	83-32-9	Acenaphthene	MSD	RPD	11	%	20
OP55512-MSD*	208-96-8	Acenaphthylene	MSD	REC	76	%	32-132
OP55512-MSD*	208-96-8	Acenaphthylene	MSD	RPD	11	%	20
OP55512-MSD*	120-12-7	Anthracene	MSD	REC	82	%	47-123
OP55512-MSD*	120-12-7	Anthracene	MSD	RPD	6	%	20
OP55512-MSD*	56-55-3	Benzo(a)anthracene	MSD	REC	84	%	49-126
OP55512-MSD*	56-55-3	Benzo(a)anthracene	MSD	RPD	1	%	20
OP55512-MSD*	50-32-8	Benzo(a)pyrene	MSD	REC	84	%	45-129
OP55512-MSD*	50-32-8	Benzo(a)pyrene	MSD	RPD	1	%	20
OP55512-MSD*	205-99-2	Benzo(b)fluoranthene	MSD	REC	84	%	45-132
OP55512-MSD*	205-99-2	Benzo(b)fluoranthene	MSD	RPD	0	%	20
OP55512-MSD*	191-24-2	Benzo(g,h,i)perylene	MSD	REC	79	%	43-134
OP55512-MSD*	191-24-2	Benzo(g,h,i)perylene	MSD	RPD	2	%	20
OP55512-MSD*	207-08-9	Benzo(k)fluoranthene	MSD	REC	82	%	47-132
OP55512-MSD*	207-08-9	Benzo(k)fluoranthene	MSD	RPD	7	%	20
OP55512-MSD*	218-01-9	Chrysene	MSD	REC	84	%	50-124
OP55512-MSD*	218-01-9	Chrysene	MSD	RPD	3	%	20
OP55512-MSD*	53-70-3	Dibenzo(a,h)anthracene	MSD	REC	85	%	45-134
OP55512-MSD*	53-70-3	Dibenzo(a,h)anthracene	MSD	RPD	8	%	20
OP55512-MSD*	206-44-0	Fluoranthene	MSD	REC	84	%	50-127
OP55512-MSD*	206-44-0	Fluoranthene	MSD	RPD	4	%	20
OP55512-MSD*	86-73-7	Fluorene	MSD	REC	77	%	43-125
OP55512-MSD*	86-73-7	Fluorene	MSD	RPD	11	%	20

* Sample used for QC is not from job FA23189

QC Evaluation: DOD QSM5 Limits

Job Number: FA23189
Account: FPM Remediations
Project: HM-AZ PBR Holloman AFB; Alamogordo, NM
Collected: 03/26/15 thru 03/27/15

QC Sample ID	CAS#	Analyte	Sample Type	Result Type	Result	Units	Limits
OP55512-MSD*	193-39-5	Indeno(1,2,3-cd)pyrene	MSD	REC	79	%	45-133
OP55512-MSD*	193-39-5	Indeno(1,2,3-cd)pyrene	MSD	RPD	7	%	20
OP55512-MSD*	90-12-0	1-Methylnaphthalene	MSD	REC	85	%	40-119
OP55512-MSD*	90-12-0	1-Methylnaphthalene	MSD	RPD	6	%	20
OP55512-MSD*	91-57-6	2-Methylnaphthalene	MSD	REC	67	%	38-122
OP55512-MSD*	91-57-6	2-Methylnaphthalene	MSD	RPD	4	%	20
OP55512-MSD*	91-20-3	Naphthalene	MSD	REC	68	%	35-123
OP55512-MSD*	91-20-3	Naphthalene	MSD	RPD	6	%	20
OP55512-MSD*	85-01-8	Phenanthrene	MSD	REC	80	%	50-121
OP55512-MSD*	85-01-8	Phenanthrene	MSD	RPD	9	%	20
OP55512-MSD*	129-00-0	Pyrene	MSD	REC	81	%	47-127
OP55512-MSD*	129-00-0	Pyrene	MSD	RPD	10	%	20
OP55512-MSD*	4165-60-0	Nitrobenzene-d5	MSD	SURR	63	%	37-122
OP55512-MSD*	321-60-8	2-Fluorobiphenyl	MSD	SURR	69	%	44-115
OP55512-MSD*	1718-51-0	Terphenyl-d14	MSD	SURR	84	%	54-127
OP55512-MB	4165-60-0	Nitrobenzene-d5	MB	SURR	74	%	37-122
OP55512-MB	321-60-8	2-Fluorobiphenyl	MB	SURR	79	%	44-115
OP55512-MB	1718-51-0	Terphenyl-d14	MB	SURR	99	%	54-127
FA23189-1	4165-60-0	Nitrobenzene-d5	SAMP	SURR	70	%	37-122
FA23189-1	321-60-8	2-Fluorobiphenyl	SAMP	SURR	72	%	44-115
FA23189-1	1718-51-0	Terphenyl-d14	SAMP	SURR	92	%	54-127
FA23189-3	4165-60-0	Nitrobenzene-d5	SAMP	SURR	76	%	37-122
FA23189-3	321-60-8	2-Fluorobiphenyl	SAMP	SURR	80	%	44-115
FA23189-3	1718-51-0	Terphenyl-d14	SAMP	SURR	101	%	54-127
FA23189-5	4165-60-0	Nitrobenzene-d5	SAMP	SURR	81	%	37-122
FA23189-5	321-60-8	2-Fluorobiphenyl	SAMP	SURR	84	%	44-115
FA23189-5	1718-51-0	Terphenyl-d14	SAMP	SURR	108	%	54-127
FA23189-7	4165-60-0	Nitrobenzene-d5	SAMP	SURR	82	%	37-122
FA23189-7	321-60-8	2-Fluorobiphenyl	SAMP	SURR	82	%	44-115
FA23189-7	1718-51-0	Terphenyl-d14	SAMP	SURR	108	%	54-127
FA23189-9	4165-60-0	Nitrobenzene-d5	SAMP	SURR	82	%	37-122
FA23189-9	321-60-8	2-Fluorobiphenyl	SAMP	SURR	83	%	44-115
FA23189-9	1718-51-0	Terphenyl-d14	SAMP	SURR	103	%	54-127
FA23189-11	4165-60-0	Nitrobenzene-d5	SAMP	SURR	77	%	37-122
FA23189-11	321-60-8	2-Fluorobiphenyl	SAMP	SURR	83	%	44-115
FA23189-11	1718-51-0	Terphenyl-d14	SAMP	SURR	102	%	54-127
OP55531	SW846 8270D						
OP55531-BS	83-32-9	Acenaphthene	BSP	REC	88	%	40-123
OP55531-BS	208-96-8	Acenaphthylene	BSP	REC	88	%	32-132
OP55531-BS	120-12-7	Anthracene	BSP	REC	92	%	47-123
OP55531-BS	56-55-3	Benzo(a)anthracene	BSP	REC	94	%	49-126
OP55531-BS	50-32-8	Benzo(a)pyrene	BSP	REC	89	%	45-129
OP55531-BS	205-99-2	Benzo(b)fluoranthene	BSP	REC	93	%	45-132

* Sample used for QC is not from job FA23189

QC Evaluation: DOD QSM5 Limits

Job Number: FA23189
Account: FPM Remediations
Project: HM-AZ PBR Holloman AFB; Alamogordo, NM
Collected: 03/26/15 thru 03/27/15

QC Sample ID	CAS#	Analyte	Sample Type	Result Type	Result	Units	Limits
OP55531-BS	191-24-2	Benzo(g,h,i)perylene	BSP	REC	98	%	43-134
OP55531-BS	207-08-9	Benzo(k)fluoranthene	BSP	REC	92	%	47-132
OP55531-BS	218-01-9	Chrysene	BSP	REC	94	%	50-124
OP55531-BS	53-70-3	Dibenzo(a,h)anthracene	BSP	REC	95	%	45-134
OP55531-BS	206-44-0	Fluoranthene	BSP	REC	91	%	50-127
OP55531-BS	86-73-7	Fluorene	BSP	REC	89	%	43-125
OP55531-BS	193-39-5	Indeno(1,2,3-cd)pyrene	BSP	REC	89	%	45-133
OP55531-BS	90-12-0	1-Methylnaphthalene	BSP	REC	98	%	40-119
OP55531-BS	91-57-6	2-Methylnaphthalene	BSP	REC	77	%	38-122
OP55531-BS	91-20-3	Naphthalene	BSP	REC	79	%	35-123
OP55531-BS	85-01-8	Phenanthrene	BSP	REC	92	%	50-121
OP55531-BS	129-00-0	Pyrene	BSP	REC	90	%	47-127
OP55531-BS	4165-60-0	Nitrobenzene-d5	BSP	SURR	75	%	37-122
OP55531-BS	321-60-8	2-Fluorobiphenyl	BSP	SURR	81	%	44-115
OP55531-BS	1718-51-0	Terphenyl-d14	BSP	SURR	95	%	54-127
OP55531-MS	83-32-9	Acenaphthene	MS	REC	75	%	40-123
OP55531-MS	208-96-8	Acenaphthylene	MS	REC	75	%	32-132
OP55531-MS	120-12-7	Anthracene	MS	REC	85	%	47-123
OP55531-MS	56-55-3	Benzo(a)anthracene	MS	REC	85	%	49-126
OP55531-MS	50-32-8	Benzo(a)pyrene	MS	REC	85	%	45-129
OP55531-MS	205-99-2	Benzo(b)fluoranthene	MS	REC	86	%	45-132
OP55531-MS	191-24-2	Benzo(g,h,i)perylene	MS	REC	94	%	43-134
OP55531-MS	207-08-9	Benzo(k)fluoranthene	MS	REC	84	%	47-132
OP55531-MS	218-01-9	Chrysene	MS	REC	84	%	50-124
OP55531-MS	53-70-3	Dibenzo(a,h)anthracene	MS	REC	92	%	45-134
OP55531-MS	206-44-0	Fluoranthene	MS	REC	84	%	50-127
OP55531-MS	86-73-7	Fluorene	MS	REC	80	%	43-125
OP55531-MS	193-39-5	Indeno(1,2,3-cd)pyrene	MS	REC	86	%	45-133
OP55531-MS	90-12-0	1-Methylnaphthalene	MS	REC	82	%	40-119
OP55531-MS	91-57-6	2-Methylnaphthalene	MS	REC	65	%	38-122
OP55531-MS	91-20-3	Naphthalene	MS	REC	68	%	35-123
OP55531-MS	85-01-8	Phenanthrene	MS	REC	83	%	50-121
OP55531-MS	129-00-0	Pyrene	MS	REC	83	%	47-127
OP55531-MS	4165-60-0	Nitrobenzene-d5	MS	SURR	64	%	37-122
OP55531-MS	321-60-8	2-Fluorobiphenyl	MS	SURR	68	%	44-115
OP55531-MS	1718-51-0	Terphenyl-d14	MS	SURR	87	%	54-127
OP55531-MSD	83-32-9	Acenaphthene	MSD	REC	85	%	40-123
OP55531-MSD	83-32-9	Acenaphthene	MSD	RPD	11	%	20
OP55531-MSD	208-96-8	Acenaphthylene	MSD	REC	85	%	32-132
OP55531-MSD	208-96-8	Acenaphthylene	MSD	RPD	11	%	20
OP55531-MSD	120-12-7	Anthracene	MSD	REC	90	%	47-123
OP55531-MSD	120-12-7	Anthracene	MSD	RPD	5	%	20
OP55531-MSD	56-55-3	Benzo(a)anthracene	MSD	REC	85	%	49-126
OP55531-MSD	56-55-3	Benzo(a)anthracene	MSD	RPD	2	%	20
OP55531-MSD	50-32-8	Benzo(a)pyrene	MSD	REC	85	%	45-129

* Sample used for QC is not from job FA23189

QC Evaluation: DOD QSM5 Limits

Job Number: FA23189
Account: FPM Remediations
Project: HM-AZ PBR Holloman AFB; Alamogordo, NM
Collected: 03/26/15 thru 03/27/15

QC Sample ID	CAS#	Analyte	Sample Type	Result Type	Result	Units	Limits
OP55531-MSD	50-32-8	Benzo(a)pyrene	MSD	RPD	2	%	20
OP55531-MSD	205-99-2	Benzo(b)fluoranthene	MSD	REC	86	%	45-132
OP55531-MSD	205-99-2	Benzo(b)fluoranthene	MSD	RPD	1	%	20
OP55531-MSD	191-24-2	Benzo(g,h,i)perylene	MSD	REC	87	%	43-134
OP55531-MSD	191-24-2	Benzo(g,h,i)perylene	MSD	RPD	9	%	20
OP55531-MSD	207-08-9	Benzo(k)fluoranthene	MSD	REC	85	%	47-132
OP55531-MSD	207-08-9	Benzo(k)fluoranthene	MSD	RPD	1	%	20
OP55531-MSD	218-01-9	Chrysene	MSD	REC	87	%	50-124
OP55531-MSD	218-01-9	Chrysene	MSD	RPD	2	%	20
OP55531-MSD	53-70-3	Dibenzo(a,h)anthracene	MSD	REC	90	%	45-134
OP55531-MSD	53-70-3	Dibenzo(a,h)anthracene	MSD	RPD	4	%	20
OP55531-MSD	206-44-0	Fluoranthene	MSD	REC	87	%	50-127
OP55531-MSD	206-44-0	Fluoranthene	MSD	RPD	2	%	20
OP55531-MSD	86-73-7	Fluorene	MSD	REC	87	%	43-125
OP55531-MSD	86-73-7	Fluorene	MSD	RPD	6	%	20
OP55531-MSD	193-39-5	Indeno(1,2,3-cd)pyrene	MSD	REC	82	%	45-133
OP55531-MSD	193-39-5	Indeno(1,2,3-cd)pyrene	MSD	RPD	6	%	20
OP55531-MSD	90-12-0	1-Methylnaphthalene	MSD	REC	94	%	40-119
OP55531-MSD	90-12-0	1-Methylnaphthalene	MSD	RPD	11	%	20
OP55531-MSD	91-57-6	2-Methylnaphthalene	MSD	REC	75	%	38-122
OP55531-MSD	91-57-6	2-Methylnaphthalene	MSD	RPD	12	%	20
OP55531-MSD	91-20-3	Naphthalene	MSD	REC	76	%	35-123
OP55531-MSD	91-20-3	Naphthalene	MSD	RPD	10	%	20
OP55531-MSD	85-01-8	Phenanthrene	MSD	REC	87	%	50-121
OP55531-MSD	85-01-8	Phenanthrene	MSD	RPD	3	%	20
OP55531-MSD	129-00-0	Pyrene	MSD	REC	85	%	47-127
OP55531-MSD	129-00-0	Pyrene	MSD	RPD	1	%	20
OP55531-MSD	4165-60-0	Nitrobenzene-d5	MSD	SURR	75	%	37-122
OP55531-MSD	321-60-8	2-Fluorobiphenyl	MSD	SURR	80	%	44-115
OP55531-MSD	1718-51-0	Terphenyl-d14	MSD	SURR	90	%	54-127
OP55531-MB	4165-60-0	Nitrobenzene-d5	MB	SURR	69	%	37-122
OP55531-MB	321-60-8	2-Fluorobiphenyl	MB	SURR	72	%	44-115
OP55531-MB	1718-51-0	Terphenyl-d14	MB	SURR	91	%	54-127
FA23189-13	4165-60-0	Nitrobenzene-d5	SAMP	SURR	71	%	37-122
FA23189-13	321-60-8	2-Fluorobiphenyl	SAMP	SURR	74	%	44-115
FA23189-13	1718-51-0	Terphenyl-d14	SAMP	SURR	96	%	54-127
FA23189-14	4165-60-0	Nitrobenzene-d5	SAMP	SURR	71	%	37-122
FA23189-14	321-60-8	2-Fluorobiphenyl	SAMP	SURR	70	%	44-115
FA23189-14	1718-51-0	Terphenyl-d14	SAMP	SURR	98	%	54-127
FA23189-16	4165-60-0	Nitrobenzene-d5	SAMP	SURR	76	%	37-122
FA23189-16	321-60-8	2-Fluorobiphenyl	SAMP	SURR	80	%	44-115
FA23189-16	1718-51-0	Terphenyl-d14	SAMP	SURR	98	%	54-127
FA23189-18	4165-60-0	Nitrobenzene-d5	SAMP	SURR	72	%	37-122
FA23189-18	321-60-8	2-Fluorobiphenyl	SAMP	SURR	78	%	44-115
FA23189-18	1718-51-0	Terphenyl-d14	SAMP	SURR	97	%	54-127

* Sample used for QC is not from job FA23189

QC Evaluation: DOD QSM5 Limits

Job Number: FA23189
Account: FPM Remediations
Project: HM-AZ PBR Holloman AFB; Alamogordo, NM
Collected: 03/26/15 thru 03/27/15

QC Sample ID	CAS#	Analyte	Sample Type	Result Type	Result	Units	Limits
FA23189-20	4165-60-0	Nitrobenzene-d5	SAMP	SURR	77	%	37-122
FA23189-20	321-60-8	2-Fluorobiphenyl	SAMP	SURR	82	%	44-115
FA23189-20	1718-51-0	Terphenyl-d14	SAMP	SURR	105	%	54-127
FA23189-22	4165-60-0	Nitrobenzene-d5	SAMP	SURR	85	%	37-122
FA23189-22	321-60-8	2-Fluorobiphenyl	SAMP	SURR	89	%	44-115
FA23189-22	1718-51-0	Terphenyl-d14	SAMP	SURR	112	%	54-127
FA23189-24	4165-60-0	Nitrobenzene-d5	SAMP	SURR	75	%	37-122
FA23189-24	321-60-8	2-Fluorobiphenyl	SAMP	SURR	79	%	44-115
FA23189-24	1718-51-0	Terphenyl-d14	SAMP	SURR	104	%	54-127
FA23189-25	4165-60-0	Nitrobenzene-d5	SAMP	SURR	75	%	37-122
FA23189-25	321-60-8	2-Fluorobiphenyl	SAMP	SURR	74	%	44-115
FA23189-25	1718-51-0	Terphenyl-d14	SAMP	SURR	99	%	54-127
FA23189-27	4165-60-0	Nitrobenzene-d5	SAMP	SURR	77	%	37-122
FA23189-27	321-60-8	2-Fluorobiphenyl	SAMP	SURR	80	%	44-115
FA23189-27	1718-51-0	Terphenyl-d14	SAMP	SURR	101	%	54-127
FA23189-29	4165-60-0	Nitrobenzene-d5	SAMP	SURR	81	%	37-122
FA23189-29	321-60-8	2-Fluorobiphenyl	SAMP	SURR	82	%	44-115
FA23189-29	1718-51-0	Terphenyl-d14	SAMP	SURR	109	%	54-127
FA23189-31	4165-60-0	Nitrobenzene-d5	SAMP	SURR	73	%	37-122
FA23189-31	321-60-8	2-Fluorobiphenyl	SAMP	SURR	75	%	44-115
FA23189-31	1718-51-0	Terphenyl-d14	SAMP	SURR	93	%	54-127
FA23189-33	4165-60-0	Nitrobenzene-d5	SAMP	SURR	70	%	37-122
FA23189-33	321-60-8	2-Fluorobiphenyl	SAMP	SURR	72	%	44-115
FA23189-33	1718-51-0	Terphenyl-d14	SAMP	SURR	92	%	54-127
FA23189-35	4165-60-0	Nitrobenzene-d5	SAMP	SURR	70	%	37-122
FA23189-35	321-60-8	2-Fluorobiphenyl	SAMP	SURR	74	%	44-115
FA23189-35	1718-51-0	Terphenyl-d14	SAMP	SURR	90	%	54-127
FA23189-37	4165-60-0	Nitrobenzene-d5	SAMP	SURR	71	%	37-122
FA23189-37	321-60-8	2-Fluorobiphenyl	SAMP	SURR	73	%	44-115
FA23189-37	1718-51-0	Terphenyl-d14	SAMP	SURR	95	%	54-127
FA23189-39	4165-60-0	Nitrobenzene-d5	SAMP	SURR	81	%	37-122
FA23189-39	321-60-8	2-Fluorobiphenyl	SAMP	SURR	85	%	44-115
FA23189-39	1718-51-0	Terphenyl-d14	SAMP	SURR	107	%	54-127
FA23189-41	4165-60-0	Nitrobenzene-d5	SAMP	SURR	75	%	37-122
FA23189-41	321-60-8	2-Fluorobiphenyl	SAMP	SURR	77	%	44-115
FA23189-41	1718-51-0	Terphenyl-d14	SAMP	SURR	98	%	54-127
OP55540	SW846 8270D BY SIM						
OP55540-BS	83-32-9	Acenaphthene	BSP	REC	104	%	48-114
OP55540-BS	83-32-9	Acenaphthene	BSP	REC	104	%	48-114
OP55540-BS	208-96-8	Acenaphthylene	BSP	REC	104	%	35-121
OP55540-BS	208-96-8	Acenaphthylene	BSP	REC	101	%	35-121
OP55540-BS	120-12-7	Anthracene	BSP	REC	100	%	53-119
OP55540-BS	120-12-7	Anthracene	BSP	REC	100	%	53-119

* Sample used for QC is not from job FA23189

QC Evaluation: DOD QSM5 Limits

Job Number: FA23189
Account: FPM Remediations
Project: HM-AZ PBR Holloman AFB; Alamogordo, NM
Collected: 03/26/15 thru 03/27/15

QC Sample ID	CAS#	Analyte	Sample Type	Result Type	Result	Units	Limits
OP55540-BS	56-55-3	Benzo(a)anthracene	BSP	REC	108	%	59-120
OP55540-BS	56-55-3	Benzo(a)anthracene	BSP	REC	108	%	59-120
OP55540-BS	50-32-8	Benzo(a)pyrene	BSP	REC	95	%	53-120
OP55540-BS	50-32-8	Benzo(a)pyrene	BSP	REC	95	%	53-120
OP55540-BS	205-99-2	Benzo(b)fluoranthene	BSP	REC	108	%	53-126
OP55540-BS	205-99-2	Benzo(b)fluoranthene	BSP	REC	108	%	53-126
OP55540-BS	191-24-2	Benzo(g,h,i)perylene	BSP	REC	83	%	44-128
OP55540-BS	191-24-2	Benzo(g,h,i)perylene	BSP	REC	65	%	44-128
OP55540-BS	207-08-9	Benzo(k)fluoranthene	BSP	REC	103	%	54-125
OP55540-BS	207-08-9	Benzo(k)fluoranthene	BSP	REC	103	%	54-125
OP55540-BS	218-01-9	Chrysene	BSP	REC	110	%	57-120
OP55540-BS	218-01-9	Chrysene	BSP	REC	110	%	57-120
OP55540-BS	53-70-3	Dibenzo(a,h)anthracene	BSP	REC	80	%	44-131
OP55540-BS	53-70-3	Dibenzo(a,h)anthracene	BSP	REC	70	%	44-131
OP55540-BS	206-44-0	Fluoranthene	BSP	REC	113	%	58-120
OP55540-BS	206-44-0	Fluoranthene	BSP	REC	113	%	58-120
OP55540-BS	86-73-7	Fluorene	BSP	REC	115	%	50-118
OP55540-BS	86-73-7	Fluorene	BSP	REC	111	%	50-118
OP55540-BS	193-39-5	Indeno(1,2,3-cd)pyrene	BSP	REC	75	%	48-130
OP55540-BS	193-39-5	Indeno(1,2,3-cd)pyrene	BSP	REC	83	%	48-130
OP55540-BS	90-12-0	1-Methylnaphthalene	BSP	REC	103	%	41-115
OP55540-BS	90-12-0	1-Methylnaphthalene	BSP	REC	104	%	41-115
OP55540-BS	91-57-6	2-Methylnaphthalene	BSP	REC	95	%	39-114
OP55540-BS	91-57-6	2-Methylnaphthalene	BSP	REC	96	%	39-114
OP55540-BS	91-20-3	Naphthalene	BSP	REC	95	%	43-114
OP55540-BS	91-20-3	Naphthalene	BSP	REC	95	%	43-114
OP55540-BS	85-01-8	Phenanthrene	BSP	REC	110	%	53-115
OP55540-BS	85-01-8	Phenanthrene	BSP	REC	109	%	53-115
OP55540-BS	129-00-0	Pyrene	BSP	REC	106	%	53-121
OP55540-BS	129-00-0	Pyrene	BSP	REC	96	%	53-121
OP55540-BS	4165-60-0	Nitrobenzene-d5	BSP	SURR	100	%	55-111
OP55540-BS	4165-60-0	Nitrobenzene-d5	BSP	SURR	102	%	55-111
OP55540-BS	321-60-8	2-Fluorobiphenyl	BSP	SURR	97	%	53-106
OP55540-BS	321-60-8	2-Fluorobiphenyl	BSP	SURR	97	%	53-106
OP55540-BS	1718-51-0	Terphenyl-d14	BSP	SURR	100	%	58-132
OP55540-BS	1718-51-0	Terphenyl-d14	BSP	SURR	89	%	58-132
OP55540-MS	83-32-9	Acenaphthene	MS	REC	75	%	48-114
OP55540-MS	208-96-8	Acenaphthylene	MS	REC	73	%	35-121
OP55540-MS	120-12-7	Anthracene	MS	REC	72	%	53-119
OP55540-MS	56-55-3	Benzo(a)anthracene	MS	REC	79	%	59-120
OP55540-MS	50-32-8	Benzo(a)pyrene	MS	REC	78	%	53-120
OP55540-MS	205-99-2	Benzo(b)fluoranthene	MS	REC	86	%	53-126
OP55540-MS	191-24-2	Benzo(g,h,i)perylene	MS	REC	76	%	44-128
OP55540-MS	207-08-9	Benzo(k)fluoranthene	MS	REC	85	%	54-125
OP55540-MS	218-01-9	Chrysene	MS	REC	85	%	57-120

* Sample used for QC is not from job FA23189

QC Evaluation: DOD QSM5 Limits

Job Number: FA23189
Account: FPM Remediations
Project: HM-AZ PBR Holloman AFB; Alamogordo, NM
Collected: 03/26/15 thru 03/27/15

QC Sample ID	CAS#	Analyte	Sample Type	Result Type	Result	Units	Limits
OP55540-MS	53-70-3	Dibenzo(a,h)anthracene	MS	REC	74	%	44-131
OP55540-MS	206-44-0	Fluoranthene	MS	REC	83	%	58-120
OP55540-MS	86-73-7	Fluorene	MS	REC	80	%	50-118
OP55540-MS	193-39-5	Indeno(1,2,3-cd)pyrene	MS	REC	74	%	48-130
OP55540-MS	90-12-0	1-Methylnaphthalene	MS	REC	74	%	41-115
OP55540-MS	91-57-6	2-Methylnaphthalene	MS	REC	69	%	39-114
OP55540-MS	91-20-3	Naphthalene	MS	REC	68	%	43-114
OP55540-MS	85-01-8	Phenanthrene	MS	REC	80	%	53-115
OP55540-MS	129-00-0	Pyrene	MS	REC	73	%	53-121
OP55540-MS	4165-60-0	Nitrobenzene-d5	MS	SURR	70	%	55-111
OP55540-MS	321-60-8	2-Fluorobiphenyl	MS	SURR	71	%	53-106
OP55540-MS	1718-51-0	Terphenyl-d14	MS	SURR	74	%	58-132
OP55540-MSD	83-32-9	Acenaphthene	MSD	REC	79	%	48-114
OP55540-MSD	83-32-9	Acenaphthene	MSD	RPD	5	%	20
OP55540-MSD	208-96-8	Acenaphthylene	MSD	REC	78	%	35-121
OP55540-MSD	208-96-8	Acenaphthylene	MSD	RPD	6	%	20
OP55540-MSD	120-12-7	Anthracene	MSD	REC	78	%	53-119
OP55540-MSD	120-12-7	Anthracene	MSD	RPD	8	%	20
OP55540-MSD	56-55-3	Benzo(a)anthracene	MSD	REC	84	%	59-120
OP55540-MSD	56-55-3	Benzo(a)anthracene	MSD	RPD	6	%	20
OP55540-MSD	50-32-8	Benzo(a)pyrene	MSD	REC	85	%	53-120
OP55540-MSD	50-32-8	Benzo(a)pyrene	MSD	RPD	9	%	20
OP55540-MSD	205-99-2	Benzo(b)fluoranthene	MSD	REC	92	%	53-126
OP55540-MSD	205-99-2	Benzo(b)fluoranthene	MSD	RPD	7	%	20
OP55540-MSD	191-24-2	Benzo(g,h,i)perylene	MSD	REC	85	%	44-128
OP55540-MSD	191-24-2	Benzo(g,h,i)perylene	MSD	RPD	12	%	20
OP55540-MSD	207-08-9	Benzo(k)fluoranthene	MSD	REC	91	%	54-125
OP55540-MSD	207-08-9	Benzo(k)fluoranthene	MSD	RPD	7	%	20
OP55540-MSD	218-01-9	Chrysene	MSD	REC	89	%	57-120
OP55540-MSD	218-01-9	Chrysene	MSD	RPD	4	%	20
OP55540-MSD	53-70-3	Dibenzo(a,h)anthracene	MSD	REC	80	%	44-131
OP55540-MSD	53-70-3	Dibenzo(a,h)anthracene	MSD	RPD	8	%	20
OP55540-MSD	206-44-0	Fluoranthene	MSD	REC	89	%	58-120
OP55540-MSD	206-44-0	Fluoranthene	MSD	RPD	7	%	20
OP55540-MSD	86-73-7	Fluorene	MSD	REC	86	%	50-118
OP55540-MSD	86-73-7	Fluorene	MSD	RPD	6	%	20
OP55540-MSD	193-39-5	Indeno(1,2,3-cd)pyrene	MSD	REC	82	%	48-130
OP55540-MSD	193-39-5	Indeno(1,2,3-cd)pyrene	MSD	RPD	9	%	20
OP55540-MSD	90-12-0	1-Methylnaphthalene	MSD	REC	77	%	41-115
OP55540-MSD	90-12-0	1-Methylnaphthalene	MSD	RPD	5	%	20
OP55540-MSD	91-57-6	2-Methylnaphthalene	MSD	REC	73	%	39-114
OP55540-MSD	91-57-6	2-Methylnaphthalene	MSD	RPD	5	%	20
OP55540-MSD	91-20-3	Naphthalene	MSD	REC	73	%	43-114
OP55540-MSD	91-20-3	Naphthalene	MSD	RPD	6	%	20
OP55540-MSD	85-01-8	Phenanthrene	MSD	REC	86	%	53-115

* Sample used for QC is not from job FA23189

QC Evaluation: DOD QSM5 Limits

Job Number: FA23189
Account: FPM Remediations
Project: HM-AZ PBR Holloman AFB; Alamogordo, NM
Collected: 03/26/15 thru 03/27/15

QC Sample ID	CAS#	Analyte	Sample Type	Result Type	Result	Units	Limits
OP55540-MSD	85-01-8	Phenanthrene	MSD	RPD	7	%	20
OP55540-MSD	129-00-0	Pyrene	MSD	REC	80	%	53-121
OP55540-MSD	129-00-0	Pyrene	MSD	RPD	9	%	20
OP55540-MSD	4165-60-0	Nitrobenzene-d5	MSD	SURR	74	%	55-111
OP55540-MSD	321-60-8	2-Fluorobiphenyl	MSD	SURR	73	%	53-106
OP55540-MSD	1718-51-0	Terphenyl-d14	MSD	SURR	81	%	58-132
OP55540-MB	4165-60-0	Nitrobenzene-d5	MB	SURR	84	%	55-111
OP55540-MB	4165-60-0	Nitrobenzene-d5	MB	SURR	84	%	55-111
OP55540-MB	321-60-8	2-Fluorobiphenyl	MB	SURR	80	%	53-106
OP55540-MB	321-60-8	2-Fluorobiphenyl	MB	SURR	77	%	53-106
OP55540-MB	1718-51-0	Terphenyl-d14	MB	SURR	78	%	58-132
OP55540-MB	1718-51-0	Terphenyl-d14	MB	SURR	84	%	58-132
FA23189-43	4165-60-0	Nitrobenzene-d5	SAMP	SURR	83	%	55-111
FA23189-43	321-60-8	2-Fluorobiphenyl	SAMP	SURR	80	%	53-106
FA23189-43	1718-51-0	Terphenyl-d14	SAMP	SURR	81	%	58-132
MP28731	SW846 6010C						
MP28731-B1	7440-36-0	Antimony	BSP	REC	102.8	%	88-113
MP28731-B1	7440-38-2	Arsenic	BSP	REC	103	%	87-113
MP28731-B1	7440-50-8	Copper	BSP	REC	104.8	%	86-114
MP28731-B1	7439-92-1	Lead	BSP	REC	98.8	%	86-113
MP28731-B1	7440-66-6	Zinc	BSP	REC	103.8	%	87-115
MP28731-S1*	7440-36-0	Antimony	MS	REC	101	%	88-113
MP28731-S1*	7440-38-2	Arsenic	MS	REC	101.1	%	87-113
MP28731-S1*	7440-50-8	Copper	MS	REC	104.8	%	86-114
MP28731-S1*	7439-92-1	Lead	MS	REC	99	%	86-113
MP28731-S1*	7440-66-6	Zinc	MS	REC	102.7	%	87-115
MP28731-S2*	7440-36-0	Antimony	MSD	REC	101.4	%	88-113
MP28731-S2*	7440-36-0	Antimony	MSD	RPD	.4	%	20
MP28731-S2*	7440-38-2	Arsenic	MSD	REC	101.1	%	87-113
MP28731-S2*	7440-38-2	Arsenic	MSD	RPD	0	%	20
MP28731-S2*	7440-50-8	Copper	MSD	REC	106	%	86-114
MP28731-S2*	7440-50-8	Copper	MSD	RPD	1.1	%	20
MP28731-S2*	7439-92-1	Lead	MSD	REC	99.8	%	86-113
MP28731-S2*	7439-92-1	Lead	MSD	RPD	.8	%	20
MP28731-S2*	7440-66-6	Zinc	MSD	REC	103.5	%	87-115
MP28731-S2*	7440-66-6	Zinc	MSD	RPD	.8	%	20
MP28731-D1*	7440-36-0	Antimony	DUP	RPD	0	%	20
MP28731-D1*	7440-38-2	Arsenic	DUP	RPD	1.8	%	20
MP28731-D1*	7440-50-8	Copper	DUP	RPD	0	%	20
MP28731-D1*	7439-92-1	Lead	DUP	RPD	0	%	20
MP28731-D1*	7440-66-6	Zinc	DUP	RPD	6	%	20

* Sample used for QC is not from job FA23189

QC Evaluation: DOD QSM5 Limits

Job Number: FA23189
Account: FPM Remediations
Project: HM-AZ PBR Holloman AFB; Alamogordo, NM
Collected: 03/26/15 thru 03/27/15

QC Sample ID	CAS#	Analyte	Sample Type	Result Type	Result	Units	Limits
MP28734	SW846 6010C						
MP28734-B1	7440-36-0	Antimony	BSP	REC	102.4	%	79-114
MP28734-B1	7440-38-2	Arsenic	BSP	REC	103	%	82-111
MP28734-B1	7440-50-8	Copper	BSP	REC	108	%	81-117
MP28734-B1	7439-92-1	Lead	BSP	REC	97.2	%	81-112
MP28734-B1	7440-66-6	Zinc	BSP	REC	102	%	82-113
MP28734-S1	7440-36-0	Antimony	MS	REC	31.9 [a]	%	79-114
MP28734-S1	7440-38-2	Arsenic	MS	REC	103.8	%	82-111
MP28734-S1	7440-50-8	Copper	MS	REC	99.2	%	81-117
MP28734-S1	7439-92-1	Lead	MS	REC	99.6	%	81-112
MP28734-S1	7440-66-6	Zinc	MS	REC	99.9	%	82-113
MP28734-S2	7440-36-0	Antimony	MSD	REC	36.5 [a]	%	79-114
MP28734-S2	7440-36-0	Antimony	MSD	RPD	26.6 [b]	%	20
MP28734-S2	7440-38-2	Arsenic	MSD	REC	107.7	%	82-111
MP28734-S2	7440-38-2	Arsenic	MSD	RPD	16.5	%	20
MP28734-S2	7440-50-8	Copper	MSD	REC	99.7	%	81-117
MP28734-S2	7440-50-8	Copper	MSD	RPD	10.4	%	20
MP28734-S2	7439-92-1	Lead	MSD	REC	92.1	%	81-112
MP28734-S2	7439-92-1	Lead	MSD	RPD	5	%	20
MP28734-S2	7440-66-6	Zinc	MSD	REC	88.6	%	82-113
MP28734-S2	7440-66-6	Zinc	MSD	RPD	.7	%	20
MP28734-D1	7440-36-0	Antimony	DUP	RPD	0	%	20
MP28734-D1	7440-38-2	Arsenic	DUP	RPD	4.4	%	20
MP28734-D1	7440-50-8	Copper	DUP	RPD	4.5	%	20
MP28734-D1	7439-92-1	Lead	DUP	RPD	19.4	%	20
MP28734-D1	7440-66-6	Zinc	DUP	RPD	18	%	20
MP28752	SW846 6010C						
MP28752-B1	7440-36-0	Antimony	BSP	REC	99.6	%	79-114
MP28752-B1	7440-38-2	Arsenic	BSP	REC	101	%	82-111
MP28752-B1	7440-50-8	Copper	BSP	REC	104.8	%	81-117
MP28752-B1	7439-92-1	Lead	BSP	REC	96.8	%	81-112
MP28752-S1*	7440-36-0	Antimony	MS	REC	23.2 [a]	%	79-114
MP28752-S1*	7440-38-2	Arsenic	MS	REC	102.3	%	82-111
MP28752-S1*	7440-50-8	Copper	MS	REC	99.4	%	81-117
MP28752-S1*	7439-92-1	Lead	MS	REC	91.8	%	81-112
MP28752-S2*	7440-36-0	Antimony	MSD	REC	23.8 [a]	%	79-114
MP28752-S2*	7440-36-0	Antimony	MSD	RPD	1.8	%	20
MP28752-S2*	7440-38-2	Arsenic	MSD	REC	104.6	%	82-111
MP28752-S2*	7440-38-2	Arsenic	MSD	RPD	1.4	%	20
MP28752-S2*	7440-50-8	Copper	MSD	REC	102.7	%	81-117
MP28752-S2*	7440-50-8	Copper	MSD	RPD	2	%	20

* Sample used for QC is not from job FA23189

QC Evaluation: DOD QSM5 Limits

Job Number: FA23189
Account: FPM Remediations
Project: HM-AZ PBR Holloman AFB; Alamogordo, NM
Collected: 03/26/15 thru 03/27/15

QC Sample ID	CAS#	Analyte	Sample Type	Result Type	Result	Units	Limits
MP28752-S2*	7439-92-1	Lead	MSD	REC	91.7	%	81-112
MP28752-S2*	7439-92-1	Lead	MSD	RPD	.8	%	20
MP28752-D1*	7440-36-0	Antimony	DUP	RPD	0	%	20
MP28752-D1*	7440-38-2	Arsenic	DUP	RPD	200 [c]	%	20
MP28752-D1*	7440-50-8	Copper	DUP	RPD	9.8	%	20
MP28752-D1*	7439-92-1	Lead	DUP	RPD	16.7	%	20

(a) Spike recovery indicates possible matrix interference and/or sample non-homogeneity.
(b) High RPD due to possible sample non-homogeneity.
(c) RPD acceptable due to low duplicate and sample concentrations.

* Sample used for QC is not from job FA23189

Southeast ACCUTEST LABORATORIES

GC/MS Semi-volatiles

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries
- Instrument Performance Checks (DFTPP)
- Internal Standard Area Summaries
- Surrogate Recovery Summaries
- Initial and Continuing Calibration Summaries

Method Blank Summary

Job Number: FA23189
Account: FPMRNYR FPM Remediations
Project: HM-AZ PBR Holloman AFB; Alamogordo, NM

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP55512-MB	X039275.D	1	03/31/15	MV	03/30/15	OP55512	SX1827

The QC reported here applies to the following samples: **Method:** SW846 8270D

FA23189-1, FA23189-3, FA23189-5, FA23189-7, FA23189-9, FA23189-11

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	ND	170	17	ug/kg	
208-96-8	Acenaphthylene	ND	170	17	ug/kg	
120-12-7	Anthracene	ND	170	17	ug/kg	
56-55-3	Benzo(a)anthracene	ND	170	17	ug/kg	
50-32-8	Benzo(a)pyrene	ND	170	17	ug/kg	
205-99-2	Benzo(b)fluoranthene	ND	170	17	ug/kg	
191-24-2	Benzo(g,h,i)perylene	ND	170	17	ug/kg	
207-08-9	Benzo(k)fluoranthene	ND	170	17	ug/kg	
218-01-9	Chrysene	ND	170	17	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	170	17	ug/kg	
206-44-0	Fluoranthene	ND	170	17	ug/kg	
86-73-7	Fluorene	ND	170	17	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	170	17	ug/kg	
90-12-0	1-Methylnaphthalene	ND	170	17	ug/kg	
91-57-6	2-Methylnaphthalene	ND	170	17	ug/kg	
91-20-3	Naphthalene	ND	170	17	ug/kg	
85-01-8	Phenanthrene	ND	170	17	ug/kg	
129-00-0	Pyrene	ND	170	17	ug/kg	

CAS No.	Surrogate Recoveries		Limits
367-12-4	2-Fluorophenol	72%	40-102%
4165-62-2	Phenol-d5	88%	41-100%
118-79-6	2,4,6-Tribromophenol	85%	42-108%
4165-60-0	Nitrobenzene-d5	74%	40-105%
321-60-8	2-Fluorobiphenyl	79%	43-107%
1718-51-0	Terphenyl-d14	99%	45-119%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
625-86-5	Furan, 2,5-dimethyl-	2.43	1000	ug/kg	JN
	Total TIC, Semi-Volatile		1000	ug/kg	J

Method Blank Summary

Job Number: FA23189
Account: FPMRNYR FPM Remediations
Project: HM-AZ PBR Holloman AFB; Alamogordo, NM

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP55531-MB	X039306.D	1	04/01/15	MV	03/31/15	OP55531	SX1828

The QC reported here applies to the following samples: **Method:** SW846 8270D

FA23189-13, FA23189-14, FA23189-16, FA23189-18, FA23189-20, FA23189-22, FA23189-24, FA23189-25, FA23189-27, FA23189-29, FA23189-31, FA23189-33, FA23189-35, FA23189-37, FA23189-39, FA23189-41

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	ND	170	17	ug/kg	
208-96-8	Acenaphthylene	ND	170	17	ug/kg	
120-12-7	Anthracene	ND	170	17	ug/kg	
56-55-3	Benzo(a)anthracene	ND	170	17	ug/kg	
50-32-8	Benzo(a)pyrene	ND	170	17	ug/kg	
205-99-2	Benzo(b)fluoranthene	ND	170	17	ug/kg	
191-24-2	Benzo(g,h,i)perylene	ND	170	17	ug/kg	
207-08-9	Benzo(k)fluoranthene	ND	170	17	ug/kg	
218-01-9	Chrysene	ND	170	17	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	170	17	ug/kg	
206-44-0	Fluoranthene	ND	170	17	ug/kg	
86-73-7	Fluorene	ND	170	17	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	170	17	ug/kg	
90-12-0	1-Methylnaphthalene	ND	170	17	ug/kg	
91-57-6	2-Methylnaphthalene	ND	170	17	ug/kg	
91-20-3	Naphthalene	ND	170	17	ug/kg	
85-01-8	Phenanthrene	ND	170	17	ug/kg	
129-00-0	Pyrene	ND	170	17	ug/kg	

CAS No.	Surrogate Recoveries		Limits
367-12-4	2-Fluorophenol	67%	40-102%
4165-62-2	Phenol-d5	86%	41-100%
118-79-6	2,4,6-Tribromophenol	78%	42-108%
4165-60-0	Nitrobenzene-d5	69%	40-105%
321-60-8	2-Fluorobiphenyl	72%	43-107%
1718-51-0	Terphenyl-d14	91%	45-119%

Method Blank Summary

Job Number: FA23189
Account: FPMRNYR FPM Remediations
Project: HM-AZ PBR Holloman AFB; Alamogordo, NM

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP55540-MB	T017710.D	1	04/06/15	MG	03/31/15	OP55540	ST810

The QC reported here applies to the following samples: **Method:** SW846 8270D BY SIM

FA23189-43

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	ND	0.80	0.32	ug/l	
208-96-8	Acenaphthylene	ND	0.80	0.32	ug/l	
120-12-7	Anthracene	ND	0.80	0.20	ug/l	
56-55-3	Benzo(a)anthracene	ND	0.16	0.032	ug/l	
50-32-8	Benzo(a)pyrene	ND	0.16	0.032	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	0.16	0.032	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.16	0.032	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	0.16	0.032	ug/l	
218-01-9	Chrysene	ND	0.16	0.032	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.16	0.032	ug/l	
206-44-0	Fluoranthene	ND	0.80	0.20	ug/l	
86-73-7	Fluorene	ND	0.80	0.20	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.16	0.032	ug/l	
90-12-0	1-Methylnaphthalene	ND	0.80	0.32	ug/l	
91-57-6	2-Methylnaphthalene	ND	0.80	0.32	ug/l	
91-20-3	Naphthalene	ND	0.80	0.32	ug/l	
85-01-8	Phenanthrene	ND	0.80	0.20	ug/l	
129-00-0	Pyrene	ND	0.80	0.20	ug/l	

CAS No.	Surrogate Recoveries		Limits
4165-60-0	Nitrobenzene-d5	84%	41-129%
321-60-8	2-Fluorobiphenyl	80%	41-118%
1718-51-0	Terphenyl-d14	84%	45-145%

Method Blank Summary

Job Number: FA23189
Account: FPMRNYR FPM Remediations
Project: HM-AZ PBR Holloman AFB; Alamogordo, NM

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP55540-MB	T017726.D	1	04/07/15	MG	03/31/15	OP55540	ST811

The QC reported here applies to the following samples: **Method:** SW846 8270D BY SIM

FA23189-43

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	ND	0.80	0.32	ug/l	
208-96-8	Acenaphthylene	ND	0.80	0.32	ug/l	
120-12-7	Anthracene	ND	0.80	0.20	ug/l	
56-55-3	Benzo(a)anthracene	ND	0.16	0.032	ug/l	
50-32-8	Benzo(a)pyrene	ND	0.16	0.032	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	0.16	0.032	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.16	0.032	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	0.16	0.032	ug/l	
218-01-9	Chrysene	ND	0.16	0.032	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.16	0.032	ug/l	
206-44-0	Fluoranthene	ND	0.80	0.20	ug/l	
86-73-7	Fluorene	ND	0.80	0.20	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.16	0.032	ug/l	
90-12-0	1-Methylnaphthalene	ND	0.80	0.32	ug/l	
91-57-6	2-Methylnaphthalene	ND	0.80	0.32	ug/l	
91-20-3	Naphthalene	ND	0.80	0.32	ug/l	
85-01-8	Phenanthrene	ND	0.80	0.20	ug/l	
129-00-0	Pyrene	ND	0.80	0.20	ug/l	

CAS No.	Surrogate Recoveries		Limits
4165-60-0	Nitrobenzene-d5	84%	41-129%
321-60-8	2-Fluorobiphenyl	77%	41-118%
1718-51-0	Terphenyl-d14	78%	45-145%

Blank Spike Summary

Job Number: FA23189
Account: FPMRNYR FPM Remediations
Project: HM-AZ PBR Holloman AFB; Alamogordo, NM

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP55512-BS	X039274.D	1	03/31/15	MV	03/30/15	OP55512	SX1827

The QC reported here applies to the following samples: **Method:** SW846 8270D

FA23189-1, FA23189-3, FA23189-5, FA23189-7, FA23189-9, FA23189-11

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	Limits
83-32-9	Acenaphthene	1670	1510	91	56-109
208-96-8	Acenaphthylene	1670	1520	91	56-106
120-12-7	Anthracene	1670	1540	92	61-110
56-55-3	Benzo(a)anthracene	1670	1560	94	66-111
50-32-8	Benzo(a)pyrene	1670	1540	92	59-104
205-99-2	Benzo(b)fluoranthene	1670	1580	95	67-113
191-24-2	Benzo(g,h,i)perylene	1670	1670	100	67-113
207-08-9	Benzo(k)fluoranthene	1670	1550	93	67-114
218-01-9	Chrysene	1670	1550	93	65-112
53-70-3	Dibenzo(a,h)anthracene	1670	1610	97	68-115
206-44-0	Fluoranthene	1670	1510	91	60-108
86-73-7	Fluorene	1670	1530	92	58-109
193-39-5	Indeno(1,2,3-cd)pyrene	1670	1500	90	66-116
90-12-0	1-Methylnaphthalene	1670	1710	103	49-106
91-57-6	2-Methylnaphthalene	1670	1360	82	47-106
91-20-3	Naphthalene	1670	1390	83	44-104
85-01-8	Phenanthrene	1670	1550	93	63-111
129-00-0	Pyrene	1670	1530	92	65-115

CAS No.	Surrogate Recoveries	BSP	Limits
367-12-4	2-Fluorophenol	78%	40-102%
4165-62-2	Phenol-d5	94%	41-100%
118-79-6	2,4,6-Tribromophenol	93%	42-108%
4165-60-0	Nitrobenzene-d5	82%	40-105%
321-60-8	2-Fluorobiphenyl	86%	43-107%
1718-51-0	Terphenyl-d14	97%	45-119%

* = Outside of Control Limits.

Blank Spike Summary

Job Number: FA23189
Account: FPMRNYR FPM Remediations
Project: HM-AZ PBR Holloman AFB; Alamogordo, NM

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP55512-BS	U049968.D	1	04/01/15	NJ	03/30/15	OP55512	SU2287

The QC reported here applies to the following samples: **Method:** SW846 8270D

FA23189-1, FA23189-3, FA23189-5, FA23189-7, FA23189-9, FA23189-11

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	Limits
83-32-9	Acenaphthene	1670	1600	96	56-109
208-96-8	Acenaphthylene	1670	1570	94	56-106
120-12-7	Anthracene	1670	1600	96	61-110
56-55-3	Benzo(a)anthracene	1670	1570	94	66-111
50-32-8	Benzo(a)pyrene	1670	1550	93	59-104
205-99-2	Benzo(b)fluoranthene	1670	1590	95	67-113
191-24-2	Benzo(g,h,i)perylene	1670	1530	92	67-113
207-08-9	Benzo(k)fluoranthene	1670	1620	97	67-114
218-01-9	Chrysene	1670	1590	95	65-112
53-70-3	Dibenzo(a,h)anthracene	1670	1490	89	68-115
206-44-0	Fluoranthene	1670	1590	95	60-108
86-73-7	Fluorene	1670	1590	95	58-109
193-39-5	Indeno(1,2,3-cd)pyrene	1670	1390	83	66-116
90-12-0	1-Methylnaphthalene	1670	1630	98	49-106
91-57-6	2-Methylnaphthalene	1670	1300	78	47-106
91-20-3	Naphthalene	1670	1320	79	44-104
85-01-8	Phenanthrene	1670	1600	96	63-111
129-00-0	Pyrene	1670	1600	96	65-115

CAS No.	Surrogate Recoveries	BSP	Limits
367-12-4	2-Fluorophenol	81%	40-102%
4165-62-2	Phenol-d5	98%	41-100%
118-79-6	2,4,6-Tribromophenol	91%	42-108%
4165-60-0	Nitrobenzene-d5	79%	40-105%
321-60-8	2-Fluorobiphenyl	89%	43-107%
1718-51-0	Terphenyl-d14	94%	45-119%

* = Outside of Control Limits.

Blank Spike Summary

Job Number: FA23189
Account: FPMRNYR FPM Remediations
Project: HM-AZ PBR Holloman AFB; Alamogordo, NM

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP55531-BS	X039305.D	1	04/01/15	MV	03/31/15	OP55531	SX1828

The QC reported here applies to the following samples: **Method:** SW846 8270D

FA23189-13, FA23189-14, FA23189-16, FA23189-18, FA23189-20, FA23189-22, FA23189-24, FA23189-25, FA23189-27, FA23189-29, FA23189-31, FA23189-33, FA23189-35, FA23189-37, FA23189-39, FA23189-41

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	Limits
83-32-9	Acenaphthene	1670	1470	88	56-109
208-96-8	Acenaphthylene	1670	1460	88	56-106
120-12-7	Anthracene	1670	1540	92	61-110
56-55-3	Benzo(a)anthracene	1670	1560	94	66-111
50-32-8	Benzo(a)pyrene	1670	1490	89	59-104
205-99-2	Benzo(b)fluoranthene	1670	1550	93	67-113
191-24-2	Benzo(g,h,i)perylene	1670	1630	98	67-113
207-08-9	Benzo(k)fluoranthene	1670	1530	92	67-114
218-01-9	Chrysene	1670	1560	94	65-112
53-70-3	Dibenzo(a,h)anthracene	1670	1580	95	68-115
206-44-0	Fluoranthene	1670	1520	91	60-108
86-73-7	Fluorene	1670	1480	89	58-109
193-39-5	Indeno(1,2,3-cd)pyrene	1670	1480	89	66-116
90-12-0	1-Methylnaphthalene	1670	1630	98	49-106
91-57-6	2-Methylnaphthalene	1670	1290	77	47-106
91-20-3	Naphthalene	1670	1320	79	44-104
85-01-8	Phenanthrene	1670	1530	92	63-111
129-00-0	Pyrene	1670	1500	90	65-115

CAS No.	Surrogate Recoveries	BSP	Limits
367-12-4	2-Fluorophenol	76%	40-102%
4165-62-2	Phenol-d5	94%	41-100%
118-79-6	2,4,6-Tribromophenol	87%	42-108%
4165-60-0	Nitrobenzene-d5	75%	40-105%
321-60-8	2-Fluorobiphenyl	81%	43-107%
1718-51-0	Terphenyl-d14	95%	45-119%

* = Outside of Control Limits.

Blank Spike Summary

Job Number: FA23189
Account: FPMRNYR FPM Remediations
Project: HM-AZ PBR Holloman AFB; Alamogordo, NM

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP55540-BS	T017709.D	1	04/06/15	MG	03/31/15	OP55540	ST810

The QC reported here applies to the following samples: **Method:** SW846 8270D BY SIM

FA23189-43

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
83-32-9	Acenaphthene	8	8.3	104	54-128
208-96-8	Acenaphthylene	8	8.3	104	55-128
120-12-7	Anthracene	4	4.0	100	57-129
56-55-3	Benzo(a)anthracene	4	4.3	108	60-134
50-32-8	Benzo(a)pyrene	4	3.8	95	58-131
205-99-2	Benzo(b)fluoranthene	4	4.3	108	62-139
191-24-2	Benzo(g,h,i)perylene	4	3.3	83	48-136
207-08-9	Benzo(k)fluoranthene	4	4.1	103	60-139
218-01-9	Chrysene	4	4.4	110	64-136
53-70-3	Dibenzo(a,h)anthracene	4	3.2	80	46-131
206-44-0	Fluoranthene	8	9.0	113	59-140
86-73-7	Fluorene	8	9.2	115	55-129
193-39-5	Indeno(1,2,3-cd)pyrene	4	3.3	83	46-139
90-12-0	1-Methylnaphthalene	8	8.3	104	52-128
91-57-6	2-Methylnaphthalene	8	7.7	96	50-117
91-20-3	Naphthalene	8	7.6	95	52-124
85-01-8	Phenanthrene	8	8.8	110	60-130
129-00-0	Pyrene	8	7.7	96	53-134

CAS No.	Surrogate Recoveries	BSP	Limits
4165-60-0	Nitrobenzene-d5	102%	41-129%
321-60-8	2-Fluorobiphenyl	97%	41-118%
1718-51-0	Terphenyl-d14	89%	45-145%

* = Outside of Control Limits.

Blank Spike Summary

Job Number: FA23189
Account: FPMRNYR FPM Remediations
Project: HM-AZ PBR Holloman AFB; Alamogordo, NM

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP55540-BS	T017725.D	1	04/07/15	MG	03/31/15	OP55540	ST811

The QC reported here applies to the following samples: **Method:** SW846 8270D BY SIM

FA23189-43

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
83-32-9	Acenaphthene	8	8.3	104	54-128
208-96-8	Acenaphthylene	8	8.1	101	55-128
120-12-7	Anthracene	4	4.0	100	57-129
56-55-3	Benzo(a)anthracene	4	4.3	108	60-134
50-32-8	Benzo(a)pyrene	4	3.8	95	58-131
205-99-2	Benzo(b)fluoranthene	4	4.3	108	62-139
191-24-2	Benzo(g,h,i)perylene	4	2.6	65	48-136
207-08-9	Benzo(k)fluoranthene	4	4.1	103	60-139
218-01-9	Chrysene	4	4.4	110	64-136
53-70-3	Dibenzo(a,h)anthracene	4	2.8	70	46-131
206-44-0	Fluoranthene	8	9.0	113	59-140
86-73-7	Fluorene	8	8.9	111	55-129
193-39-5	Indeno(1,2,3-cd)pyrene	4	3.0	75	46-139
90-12-0	1-Methylnaphthalene	8	8.2	103	52-128
91-57-6	2-Methylnaphthalene	8	7.6	95	50-117
91-20-3	Naphthalene	8	7.6	95	52-124
85-01-8	Phenanthrene	8	8.7	109	60-130
129-00-0	Pyrene	8	8.5	106	53-134

CAS No.	Surrogate Recoveries	BSP	Limits
4165-60-0	Nitrobenzene-d5	100%	41-129%
321-60-8	2-Fluorobiphenyl	97%	41-118%
1718-51-0	Terphenyl-d14	100%	45-145%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: FA23189
Account: FPMRNYR FPM Remediations
Project: HM-AZ PBR Holloman AFB; Alamogordo, NM

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP55512-MS	U049971.D	1	04/01/15	NJ	03/30/15	OP55512	SU2287
OP55512-MSD	X039292.D	1	03/31/15	MV	03/30/15	OP55512	SX1827
FA23106-3	X039290.D	1	03/31/15	MV	03/30/15	OP55512	SX1827

The QC reported here applies to the following samples: **Method:** SW846 8270D

FA23189-1, FA23189-3, FA23189-5, FA23189-7, FA23189-9, FA23189-11

CAS No.	Compound	FA23106-3 ug/kg	Q	Spike ug/kg	MS ug/kg	MS %	Spike ug/kg	MSD ug/kg	MSD %	RPD	Limits Rec/RPD
83-32-9	Acenaphthene	ND		1670	1420	85	1660	1270	76	11	56-109/23
208-96-8	Acenaphthylene	ND		1670	1400	84	1660	1260	76	11	56-106/23
120-12-7	Anthracene	ND		1670	1450	87	1660	1370	82	6	61-110/21
56-55-3	Benzo(a)anthracene	ND		1670	1420	85	1660	1400	84	1	66-111/23
50-32-8	Benzo(a)pyrene	ND		1670	1380	83	1660	1400	84	1	59-104/23
205-99-2	Benzo(b)fluoranthene	ND		1670	1400	84	1660	1400	84	0	67-113/24
191-24-2	Benzo(g,h,i)perylene	ND		1670	1330	80	1660	1310	79	2	67-113/21
207-08-9	Benzo(k)fluoranthene	ND		1670	1460	87	1660	1360	82	7	67-114/22
218-01-9	Chrysene	ND		1670	1440	86	1660	1400	84	3	65-112/25
53-70-3	Dibenzo(a,h)anthracene	ND		1670	1310	78	1660	1420	85	8	68-115/23
206-44-0	Fluoranthene	ND		1670	1450	87	1660	1390	84	4	60-108/25
86-73-7	Fluorene	ND		1670	1430	86	1660	1280	77	11	58-109/21
193-39-5	Indeno(1,2,3-cd)pyrene	ND		1670	1220	73	1660	1310	79	7	66-116/22
90-12-0	1-Methylnaphthalene	ND		1670	1490	89	1660	1410	85	6	49-106/26
91-57-6	2-Methylnaphthalene	ND		1670	1170	70	1660	1120	67	4	47-106/27
91-20-3	Naphthalene	ND		1670	1200	72	1660	1130	68	6	44-104/27
85-01-8	Phenanthrene	ND		1670	1460	87	1660	1330	80	9	63-111/22
129-00-0	Pyrene	ND		1670	1480	89	1660	1340	81	10	65-115/25

CAS No.	Surrogate Recoveries	MS	MSD	FA23106-3	Limits
367-12-4	2-Fluorophenol	72%	63%		40-102%
4165-62-2	Phenol-d5	89%	78%		41-100%
118-79-6	2,4,6-Tribromophenol	82%	75%		42-108%
4165-60-0	Nitrobenzene-d5	69%	63%	72%	40-105%
321-60-8	2-Fluorobiphenyl	78%	69%	73%	43-107%
1718-51-0	Terphenyl-d14	85%	84%	94%	45-119%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: FA23189
Account: FPMRNYR FPM Remediations
Project: HM-AZ PBR Holloman AFB; Alamogordo, NM

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP55531-MS	X039319.D	1	04/01/15	MV	03/31/15	OP55531	SX1828
OP55531-MSD	X039320.D	1	04/01/15	MV	03/31/15	OP55531	SX1828
FA23189-20	X039313.D	1	04/01/15	MV	03/31/15	OP55531	SX1828

The QC reported here applies to the following samples: **Method:** SW846 8270D

FA23189-13, FA23189-14, FA23189-16, FA23189-18, FA23189-20, FA23189-22, FA23189-24, FA23189-25, FA23189-27, FA23189-29, FA23189-31, FA23189-33, FA23189-35, FA23189-37, FA23189-39, FA23189-41

CAS No.	Compound	FA23189-20 ug/kg	Q	Spike ug/kg	MS ug/kg	MS %	Spike ug/kg	MSD ug/kg	MSD %	RPD	Limits Rec/RPD
83-32-9	Acenaphthene	210 U		2110	1590	75	2080	1770	85	11	56-109/23
208-96-8	Acenaphthylene	210 U		2110	1590	75	2080	1770	85	11	56-106/23
120-12-7	Anthracene	210 U		2110	1790	85	2080	1880	90	5	61-110/21
56-55-3	Benzo(a)anthracene	32.9	J	2110	1830	85	2080	1800	85	2	66-111/23
50-32-8	Benzo(a)pyrene	37.1	J	2110	1840	85	2080	1800	85	2	59-104/23
205-99-2	Benzo(b)fluoranthene	43.6	J	2110	1860	86	2080	1840	86	1	67-113/24
191-24-2	Benzo(g,h,i)perylene	30.9	J	2110	2010	94	2080	1830	87	9	67-113/21
207-08-9	Benzo(k)fluoranthene	30.6	J	2110	1810	84	2080	1800	85	1	67-114/22
218-01-9	Chrysene	41.3	J	2110	1810	84	2080	1850	87	2	65-112/25
53-70-3	Dibenzo(a,h)anthracene	210 U		2110	1940	92	2080	1870	90	4	68-115/23
206-44-0	Fluoranthene	38.3	J	2110	1820	84	2080	1850	87	2	60-108/25
86-73-7	Fluorene	210 U		2110	1690	80	2080	1800	87	6	58-109/21
193-39-5	Indeno(1,2,3-cd)pyrene	28.4	J	2110	1840	86	2080	1730	82	6	66-116/22
90-12-0	1-Methylnaphthalene	210 U		2110	1740	82	2080	1950	94	11	49-106/26
91-57-6	2-Methylnaphthalene	210 U		2110	1380	65	2080	1550	75	12	47-106/27
91-20-3	Naphthalene	210 U		2110	1430	68	2080	1580	76	10	44-104/27
85-01-8	Phenanthrene	210 U		2110	1750	83	2080	1810	87	3	63-111/22
129-00-0	Pyrene	39.8	J	2110	1790	83	2080	1800	85	1	65-115/25

CAS No.	Surrogate Recoveries	MS	MSD	FA23189-20	Limits
367-12-4	2-Fluorophenol	66%	73%		40-102%
4165-62-2	Phenol-d5	79%	91%		41-100%
118-79-6	2,4,6-Tribromophenol	81%	86%		42-108%
4165-60-0	Nitrobenzene-d5	64%	75%	77%	40-105%
321-60-8	2-Fluorobiphenyl	68%	80%	82%	43-107%
1718-51-0	Terphenyl-d14	87%	90%	105%	45-119%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: FA23189
Account: FPMRNYR FPM Remediations
Project: HM-AZ PBR Holloman AFB; Alamogordo, NM

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP55540-MS	T017714.D	1	04/06/15	MG	03/31/15	OP55540	ST810
OP55540-MSD	T017715.D	1	04/06/15	MG	03/31/15	OP55540	ST810
FA23189-43	T017711.D	1	04/06/15	MG	03/31/15	OP55540	ST810

The QC reported here applies to the following samples: **Method:** SW846 8270D BY SIM

FA23189-43

CAS No.	Compound	FA23189-43 ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
83-32-9	Acenaphthene	0.87	U	16.7	12.5	75	16.7	13.1	79	5	54-128/23
208-96-8	Acenaphthylene	0.87	U	16.7	12.2	73	16.7	13.0	78	6	55-128/23
120-12-7	Anthracene	0.87	U	8.33	6.0	72	8.33	6.5	78	8	57-129/22
56-55-3	Benzo(a)anthracene	0.17	U	8.33	6.6	79	8.33	7.0	84	6	60-134/18
50-32-8	Benzo(a)pyrene	0.17	U	8.33	6.5	78	8.33	7.1	85	9	58-131/20
205-99-2	Benzo(b)fluoranthene	0.17	U	8.33	7.2	86	8.33	7.7	92	7	62-139/21
191-24-2	Benzo(g,h,i)perylene	0.17	U	8.33	6.3	76	8.33	7.1	85	12	48-136/23
207-08-9	Benzo(k)fluoranthene	0.17	U	8.33	7.1	85	8.33	7.6	91	7	60-139/19
218-01-9	Chrysene	0.17	U	8.33	7.1	85	8.33	7.4	89	4	64-136/19
53-70-3	Dibenzo(a,h)anthracene	0.17	U	8.33	6.2	74	8.33	6.7	80	8	46-131/25
206-44-0	Fluoranthene	0.87	U	16.7	13.9	83	16.7	14.9	89	7	59-140/18
86-73-7	Fluorene	0.87	U	16.7	13.4	80	16.7	14.3	86	6	55-129/23
193-39-5	Indeno(1,2,3-cd)pyrene	0.17	U	8.33	6.2	74	8.33	6.8	82	9	46-139/24
90-12-0	1-Methylnaphthalene	0.87	U	16.7	12.3	74	16.7	12.9	77	5	52-128/22
91-57-6	2-Methylnaphthalene	0.87	U	16.7	11.5	69	16.7	12.1	73	5	50-117/23
91-20-3	Naphthalene	0.87	U	16.7	11.4	68	16.7	12.1	73	6	52-124/23
85-01-8	Phenanthrene	0.87	U	16.7	13.3	80	16.7	14.3	86	7	60-130/22
129-00-0	Pyrene	0.87	U	16.7	12.2	73	16.7	13.3	80	9	53-134/18

CAS No.	Surrogate Recoveries	MS	MSD	FA23189-43	Limits
4165-60-0	Nitrobenzene-d5	70%	74%	83%	41-129%
321-60-8	2-Fluorobiphenyl	71%	73%	80%	41-118%
1718-51-0	Terphenyl-d14	74%	81%	81%	45-145%

* = Outside of Control Limits.

Instrument Performance Check (DFTPP)

Job Number: FA23189
Account: FPMRNYR FPM Remediations
Project: HM-AZ PBR Holloman AFB; Alamogordo, NM

Sample: ST809-DFTPP
Lab File ID: T017697.D
Instrument ID: GCMST
Injection Date: 04/01/15
Injection Time: 13:13

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
51	30.0 - 60.0% of mass 198	41981	35.3		Pass
68	Less than 2.0% of mass 69	0	0.00	(0.00) [a]	Pass
69	Mass 69 relative abundance	46325	39.0		Pass
70	Less than 2.0% of mass 69	123	0.10	(0.27) [a]	Pass
127	40.0 - 60.0% of mass 198	59784	50.3		Pass
197	Less than 1.0% of mass 198	0	0.00		Pass
198	Base peak, 100% relative abundance	118845	100.0		Pass
199	5.0 - 9.0% of mass 198	7986	6.72		Pass
275	10.0 - 30.0% of mass 198	29112	24.5		Pass
365	1.0 - 100.0% of mass 198	2815	2.37		Pass
441	Present, but less than mass 443	6542	5.50	(48.7) [b]	Pass
442	40.0 - 100.0% of mass 198	68149	57.3		Pass
443	17.0 - 23.0% of mass 442	13420	11.3	(19.7) [c]	Pass

(a) Value is % of mass 69
(b) Value is % of mass 443
(c) Value is % of mass 442

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
ST809-IC809	T017698.D	04/01/15	13:35	00:22	Initial cal 1
ST809-IC809	T017699.D	04/01/15	14:05	00:52	Initial cal 2
ST809-IC809	T017700.D	04/01/15	14:35	01:22	Initial cal 3
ST809-ICC809	T017701.D	04/01/15	15:06	01:53	Initial cal 4
ST809-IC809	T017702.D	04/01/15	15:36	02:23	Initial cal 5
ST809-IC809	T017703.D	04/01/15	16:07	02:54	Initial cal 6
ST809-IC809	T017704.D	04/01/15	16:37	03:24	Initial cal 7
ST809-ICV809	T017706.D	04/01/15	17:38	04:25	Initial cal verification 4

Instrument Performance Check (DFTPP)

Job Number: FA23189
Account: FPMRNYR FPM Remediations
Project: HM-AZ PBR Holloman AFB; Alamogordo, NM

Sample: ST810-DFTPP
Lab File ID: T017707.D
Instrument ID: GCMST
Injection Date: 04/06/15
Injection Time: 10:32

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
51	30.0 - 60.0% of mass 198	44096	35.3		Pass
68	Less than 2.0% of mass 69	0	0.00	(0.00) [a]	Pass
69	Mass 69 relative abundance	48232	38.6		Pass
70	Less than 2.0% of mass 69	75	0.06	(0.16) [a]	Pass
127	40.0 - 60.0% of mass 198	61826	49.4		Pass
197	Less than 1.0% of mass 198	0	0.00		Pass
198	Base peak, 100% relative abundance	125069	100.0		Pass
199	5.0 - 9.0% of mass 198	8537	6.83		Pass
275	10.0 - 30.0% of mass 198	29867	23.9		Pass
365	1.0 - 100.0% of mass 198	2717	2.17		Pass
441	Present, but less than mass 443	10813	8.65	(81.7) [b]	Pass
442	40.0 - 100.0% of mass 198	67501	54.0		Pass
443	17.0 - 23.0% of mass 442	13239	10.6	(19.6) [c]	Pass

(a) Value is % of mass 69
(b) Value is % of mass 443
(c) Value is % of mass 442

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
ST810-CC809	T017708.D	04/06/15	10:54	00:22	Continuing cal 5
OP55540-BS	T017709.D	04/06/15	11:33	01:01	Blank Spike
OP55540-MB	T017710.D	04/06/15	12:03	01:31	Method Blank
FA23189-43	T017711.D	04/06/15	12:34	02:02	SR859-EB1
ZZZZZZ	T017712.D	04/06/15	13:19	02:47	(unrelated sample)
ZZZZZZ	T017713.D	04/06/15	13:48	03:16	(unrelated sample)
OP55540-MS	T017714.D	04/06/15	14:19	03:47	Matrix Spike
OP55540-MSD	T017715.D	04/06/15	14:49	04:17	Matrix Spike Duplicate
ZZZZZZ	T017716.D	04/06/15	15:20	04:48	(unrelated sample)
ZZZZZZ	T017717.D	04/06/15	15:50	05:18	(unrelated sample)
ZZZZZZ	T017718.D	04/06/15	16:21	05:49	(unrelated sample)
ZZZZZZ	T017719.D	04/06/15	16:51	06:19	(unrelated sample)
ZZZZZZ	T017720.D	04/06/15	17:22	06:50	(unrelated sample)
ZZZZZZ	T017721.D	04/06/15	17:52	07:20	(unrelated sample)

Instrument Performance Check (DFTPP)

Job Number: FA23189
Account: FPMRNYR FPM Remediations
Project: HM-AZ PBR Holloman AFB; Alamogordo, NM

Sample: ST811-DFTPP
Lab File ID: T017723.D
Instrument ID: GCMST
Injection Date: 04/07/15
Injection Time: 10:07

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
51	30.0 - 60.0% of mass 198	47900	30.7		Pass
68	Less than 2.0% of mass 69	0	0.00	(0.00) [a]	Pass
69	Mass 69 relative abundance	54218	34.8		Pass
70	Less than 2.0% of mass 69	80	0.05	(0.15) [a]	Pass
127	40.0 - 60.0% of mass 198	72960	46.8		Pass
197	Less than 1.0% of mass 198	0	0.00		Pass
198	Base peak, 100% relative abundance	155970	100.0		Pass
199	5.0 - 9.0% of mass 198	10520	6.74		Pass
275	10.0 - 30.0% of mass 198	40304	25.8		Pass
365	1.0 - 100.0% of mass 198	3906	2.50		Pass
441	Present, but less than mass 443	16823	10.8	(85.0) [b]	Pass
442	40.0 - 100.0% of mass 198	102312	65.6		Pass
443	17.0 - 23.0% of mass 442	19803	12.7	(19.4) [c]	Pass

(a) Value is % of mass 69
(b) Value is % of mass 443
(c) Value is % of mass 442

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
ST811-CC809	T017724.D	04/07/15	10:26	00:19	Continuing cal 5
OP55540-BS	T017725.D	04/07/15	11:09	01:02	Blank Spike
OP55540-MB	T017726.D	04/07/15	11:39	01:32	Method Blank
ZZZZZZ	T017727.D	04/07/15	12:10	02:03	(unrelated sample)
ZZZZZZ	T017733.D	04/07/15	15:13	05:06	(unrelated sample)
ZZZZZZ	T017734.D	04/07/15	15:43	05:36	(unrelated sample)
ZZZZZZ	T017735.D	04/07/15	16:14	06:07	(unrelated sample)
OP55505-MS	T017737.D	04/07/15	17:15	07:08	Matrix Spike
OP55505-MSD	T017738.D	04/07/15	17:46	07:39	Matrix Spike Duplicate
ZZZZZZ	T017739.D	04/07/15	18:16	08:09	(unrelated sample)
OP55593-BS	T017740.D	04/07/15	18:46	08:39	Blank Spike
OP55593-MB	T017741.D	04/07/15	19:16	09:09	Method Blank
ZZZZZZ	T017742.D	04/07/15	19:46	09:39	(unrelated sample)
FA23271-13	T017743.D	04/07/15	20:17	10:10	(used for QC only; not part of job FA23189)

Instrument Performance Check (DFTPP)

Job Number: FA23189
Account: FPMRNYR FPM Remediations
Project: HM-AZ PBR Holloman AFB; Alamogordo, NM

Sample: SU2285-DFTPP
Lab File ID: U049897.D
Instrument ID: GCMSU
Injection Date: 03/30/15
Injection Time: 12:56

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
51	30.0 - 60.0% of mass 198	23167	35.6		Pass
68	Less than 2.0% of mass 69	0	0.00	(0.00) [a]	Pass
69	Mass 69 relative abundance	26962	41.5		Pass
70	Less than 2.0% of mass 69	52	0.08	(0.19) [a]	Pass
127	40.0 - 60.0% of mass 198	32856	50.5		Pass
197	Less than 1.0% of mass 198	0	0.00		Pass
198	Base peak, 100% relative abundance	65034	100.0		Pass
199	5.0 - 9.0% of mass 198	4610	7.09		Pass
275	10.0 - 30.0% of mass 198	16849	25.9		Pass
365	1.0 - 100.0% of mass 198	1494	2.30		Pass
441	Present, but less than mass 443	8290	12.7	(72.2) [b]	Pass
442	40.0 - 100.0% of mass 198	55176	84.8		Pass
443	17.0 - 23.0% of mass 442	11480	17.7	(20.8) [c]	Pass

(a) Value is % of mass 69
(b) Value is % of mass 443
(c) Value is % of mass 442

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
SU2285-IC2285	U049898.D	03/30/15	13:16	00:20	Initial cal 5
SU2285-IC2285	U049899.D	03/30/15	13:48	00:52	Initial cal 10
SU2285-IC2285	U049900.D	03/30/15	14:15	01:19	Initial cal 25
SU2285-ICC2285	U049901.D	03/30/15	14:42	01:46	Initial cal 50
SU2285-IC2285	U049902.D	03/30/15	15:08	02:12	Initial cal 60
SU2285-IC2285	U049903.D	03/30/15	15:35	02:39	Initial cal 75
SU2285-IC2285	U049904.D	03/30/15	16:02	03:06	Initial cal 100
SU2285-ICV2285	U049905.D	03/30/15	16:34	03:38	Initial cal verification 50
SU2285-ICV2285	U049906.D	03/30/15	17:01	04:05	Initial cal verification 50
SU2285-ICV2285	U049907.D	03/30/15	17:27	04:31	Initial cal verification 50
OP55482-BS	U049908.D	03/30/15	17:54	04:58	Blank Spike
OP55482-MB	U049909.D	03/30/15	18:21	05:25	Method Blank
ZZZZZZ	U049910.D	03/30/15	18:47	05:51	(unrelated sample)
ZZZZZZ	U049911.D	03/30/15	19:14	06:18	(unrelated sample)
ZZZZZZ	U049912.D	03/30/15	19:41	06:45	(unrelated sample)
ZZZZZZ	U049913.D	03/30/15	20:08	07:12	(unrelated sample)
ZZZZZZ	U049914.D	03/30/15	20:35	07:39	(unrelated sample)
ZZZZZZ	U049915.D	03/30/15	21:02	08:06	(unrelated sample)
OP55478-BS	U049916.D	03/30/15	21:29	08:33	Blank Spike

Instrument Performance Check (DFTPP)

Job Number: FA23189
Account: FPMRNYR FPM Remediations
Project: HM-AZ PBR Holloman AFB; Alamogordo, NM

Sample: SU2285-DFTPP
Lab File ID: U049897.D
Instrument ID: GCMSU
Injection Date: 03/30/15
Injection Time: 12:56

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
OP55478-MB	U049917.D	03/30/15	21:56	09:00	Method Blank
FA23011-12	U049918.D	03/30/15	22:23	09:27	(used for QC only; not part of job FA23189)
OP55478-MS	U049919.D	03/30/15	22:50	09:54	Matrix Spike
OP55478-MSD	U049920.D	03/30/15	23:17	10:21	Matrix Spike Duplicate
ZZZZZZ	U049921.D	03/30/15	23:44	10:48	(unrelated sample)
ZZZZZZ	U049922.D	03/31/15	00:11	11:15	(unrelated sample)

Instrument Performance Check (DFTPP)

Job Number: FA23189
Account: FPMRNYR FPM Remediations
Project: HM-AZ PBR Holloman AFB; Alamogordo, NM

Sample: SU2287-DFTPP
Lab File ID: U049952.D
Instrument ID: GCMSU
Injection Date: 04/01/15
Injection Time: 09:42

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
51	30.0 - 60.0% of mass 198	20805	36.7		Pass
68	Less than 2.0% of mass 69	0	0.00	(0.00) [a]	Pass
69	Mass 69 relative abundance	23460	41.4		Pass
70	Less than 2.0% of mass 69	38	0.07	(0.16) [a]	Pass
127	40.0 - 60.0% of mass 198	28186	49.7		Pass
197	Less than 1.0% of mass 198	191	0.34		Pass
198	Base peak, 100% relative abundance	56677	100.0		Pass
199	5.0 - 9.0% of mass 198	3774	6.66		Pass
275	10.0 - 30.0% of mass 198	14573	25.7		Pass
365	1.0 - 100.0% of mass 198	1557	2.75		Pass
441	Present, but less than mass 443	7244	12.8	(78.3) [b]	Pass
442	40.0 - 100.0% of mass 198	48168	85.0		Pass
443	17.0 - 23.0% of mass 442	9252	16.3	(19.2) [c]	Pass

(a) Value is % of mass 69
(b) Value is % of mass 443
(c) Value is % of mass 442

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
SU2287-CC2285	U049953.D	04/01/15	09:59	00:17	Continuing cal 50
OP55508-BS	U049954.D	04/01/15	10:27	00:45	Blank Spike
OP55508-MB	U049955.D	04/01/15	10:54	01:12	Method Blank
FA23147-2	U049956.D	04/01/15	11:21	01:39	(used for QC only; not part of job FA23189)
OP55508-MS	U049957.D	04/01/15	11:48	02:06	Matrix Spike
OP55508-MSD	U049958.D	04/01/15	12:15	02:33	Matrix Spike Duplicate
ZZZZZZ	U049959.D	04/01/15	12:41	02:59	(unrelated sample)
ZZZZZZ	U049960.D	04/01/15	13:08	03:26	(unrelated sample)
ZZZZZZ	U049962.D	04/01/15	14:03	04:21	(unrelated sample)
ZZZZZZ	U049963.D	04/01/15	14:30	04:48	(unrelated sample)
ZZZZZZ	U049964.D	04/01/15	14:57	05:15	(unrelated sample)
ZZZZZZ	U049965.D	04/01/15	15:24	05:42	(unrelated sample)
ZZZZZZ	U049966.D	04/01/15	15:51	06:09	(unrelated sample)
ZZZZZZ	U049967.D	04/01/15	16:19	06:37	(unrelated sample)
OP55512-BS	U049968.D	04/01/15	16:46	07:04	Blank Spike
ZZZZZZ	U049969.D	04/01/15	17:13	07:31	(unrelated sample)
ZZZZZZ	U049970.D	04/01/15	17:40	07:58	(unrelated sample)
OP55512-MS	U049971.D	04/01/15	18:07	08:25	Matrix Spike
FA23147-2	U049972.D	04/01/15	18:33	08:51	(used for QC only; not part of job FA23189)

Instrument Performance Check (DFTPP)

Job Number: FA23189
Account: FPMRNYR FPM Remediations
Project: HM-AZ PBR Holloman AFB; Alamogordo, NM

Sample: SU2287-DFTPP
Lab File ID: U049952.D
Instrument ID: GCMSU
Injection Date: 04/01/15
Injection Time: 09:42

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
ZZZZZZ	U049973.D	04/01/15	19:00	09:18	(unrelated sample)
ZZZZZZ	U049976.D	04/01/15	20:22	10:40	(unrelated sample)
ZZZZZZ	U049977.D	04/01/15	20:49	11:07	(unrelated sample)
ZZZZZZ	U049978.D	04/01/15	21:15	11:33	(unrelated sample)
SU2287-ECC2285	U049980.D	04/01/15	22:09	12:27	Ending cal 50

Instrument Performance Check (DFTPP)

Job Number: FA23189
Account: FPMRNYR FPM Remediations
Project: HM-AZ PBR Holloman AFB; Alamogordo, NM

Sample: SX1826-DFTPP
Lab File ID: X039248.D
Instrument ID: GCMSX
Injection Date: 03/30/15
Injection Time: 14:50

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
51	30.0 - 60.0% of mass 198	134923	44.1		Pass
68	Less than 2.0% of mass 69	0	0.00	(0.00) [a]	Pass
69	Mass 69 relative abundance	130091	42.5		Pass
70	Less than 2.0% of mass 69	591	0.19	(0.45) [a]	Pass
127	40.0 - 60.0% of mass 198	151563	49.5		Pass
197	Less than 1.0% of mass 198	0	0.00		Pass
198	Base peak, 100% relative abundance	306112	100.0		Pass
199	5.0 - 9.0% of mass 198	20803	6.80		Pass
275	10.0 - 30.0% of mass 198	76677	25.0		Pass
365	1.0 - 100.0% of mass 198	8040	2.63		Pass
441	Present, but less than mass 443	47275	15.4	(77.4) [b]	Pass
442	40.0 - 100.0% of mass 198	288832	94.4		Pass
443	17.0 - 23.0% of mass 442	61083	20.0	(21.1) [c]	Pass

(a) Value is % of mass 69
(b) Value is % of mass 443
(c) Value is % of mass 442

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
SX1826-IC1826	X039249.D	03/30/15	15:05	00:15	Initial cal 5
SX1826-IC1826	X039250.D	03/30/15	15:29	00:39	Initial cal 10
SX1826-IC1826	X039251.D	03/30/15	15:54	01:04	Initial cal 25
SX1826-ICC1826	X039252.D	03/30/15	16:19	01:29	Initial cal 50
SX1826-IC1826	X039253.D	03/30/15	16:43	01:53	Initial cal 60
SX1826-IC1826	X039254.D	03/30/15	17:08	02:18	Initial cal 75
SX1826-IC1826	X039255.D	03/30/15	17:32	02:42	Initial cal 100
SX1826-ICV1826	X039256.D	03/30/15	17:57	03:07	Initial cal verification 50
SX1826-ICV1826	X039257.D	03/30/15	18:22	03:32	Initial cal verification 50
OP55454-BS	X039259.D	03/30/15	19:11	04:21	Blank Spike
OP55454-MB	X039260.D	03/30/15	19:35	04:45	Method Blank
ZZZZZZ	X039261.D	03/30/15	20:00	05:10	(unrelated sample)
OP55475-BS	X039262.D	03/30/15	20:24	05:34	Blank Spike
OP55475-MB	X039263.D	03/30/15	20:49	05:59	Method Blank
ZZZZZZ	X039264.D	03/30/15	21:13	06:23	(unrelated sample)
ZZZZZZ	X039266.D	03/30/15	22:02	07:12	(unrelated sample)
ZZZZZZ	X039267.D	03/30/15	22:26	07:36	(unrelated sample)
ZZZZZZ	X039268.D	03/30/15	22:51	08:01	(unrelated sample)
ZZZZZZ	X039269.D	03/30/15	23:15	08:25	(unrelated sample)

Instrument Performance Check (DFTPP)

Job Number: FA23189
Account: FPMRNYR FPM Remediations
Project: HM-AZ PBR Holloman AFB; Alamogordo, NM

Sample: SX1827-DFTPP
Lab File ID: X039272.D
Instrument ID: GCMSX
Injection Date: 03/31/15
Injection Time: 13:28

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
51	30.0 - 60.0% of mass 198	133874	44.7		Pass
68	Less than 2.0% of mass 69	0	0.00	(0.00) [a]	Pass
69	Mass 69 relative abundance	131379	43.9		Pass
70	Less than 2.0% of mass 69	236	0.08	(0.18) [a]	Pass
127	40.0 - 60.0% of mass 198	151874	50.8		Pass
197	Less than 1.0% of mass 198	1354	0.45		Pass
198	Base peak, 100% relative abundance	299243	100.0		Pass
199	5.0 - 9.0% of mass 198	21672	7.24		Pass
275	10.0 - 30.0% of mass 198	71205	23.8		Pass
365	1.0 - 100.0% of mass 198	6291	2.10		Pass
441	Present, but less than mass 443	42560	14.2	(75.8) [b]	Pass
442	40.0 - 100.0% of mass 198	268608	89.8		Pass
443	17.0 - 23.0% of mass 442	56123	18.8	(20.9) [c]	Pass

(a) Value is % of mass 69
(b) Value is % of mass 443
(c) Value is % of mass 442

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
SX1827-CC1826	X039273.D	03/31/15	13:43	00:15	Continuing cal 50
OP55512-BS	X039274.D	03/31/15	14:18	00:50	Blank Spike
OP55512-MB	X039275.D	03/31/15	14:43	01:15	Method Blank
ZZZZZZ	X039276.D	03/31/15	15:10	01:42	(unrelated sample)
ZZZZZZ	X039277.D	03/31/15	15:35	02:07	(unrelated sample)
ZZZZZZ	X039278.D	03/31/15	16:27	02:59	(unrelated sample)
ZZZZZZ	X039279.D	03/31/15	16:51	03:23	(unrelated sample)
ZZZZZZ	X039280.D	03/31/15	17:16	03:48	(unrelated sample)
ZZZZZZ	X039281.D	03/31/15	17:41	04:13	(unrelated sample)
ZZZZZZ	X039282.D	03/31/15	18:05	04:37	(unrelated sample)
ZZZZZZ	X039283.D	03/31/15	18:30	05:02	(unrelated sample)
ZZZZZZ	X039284.D	03/31/15	18:55	05:27	(unrelated sample)
ZZZZZZ	X039285.D	03/31/15	19:19	05:51	(unrelated sample)
ZZZZZZ	X039286.D	03/31/15	19:44	06:16	(unrelated sample)
ZZZZZZ	X039287.D	03/31/15	20:08	06:40	(unrelated sample)
ZZZZZZ	X039288.D	03/31/15	20:33	07:05	(unrelated sample)
FA23106-3	X039290.D	03/31/15	21:22	07:54	(used for QC only; not part of job FA23189)
OP55512-MSD	X039292.D	03/31/15	22:11	08:43	Matrix Spike Duplicate
FA23189-1	X039293.D	03/31/15	22:36	09:08	SR859-1

Instrument Performance Check (DFTPP)

Job Number: FA23189
Account: FPMRNYR FPM Remediations
Project: HM-AZ PBR Holloman AFB; Alamogordo, NM

Sample: SX1827-DFTPP
Lab File ID: X039272.D
Instrument ID: GCMSX
Injection Date: 03/31/15
Injection Time: 13:28

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
FA23189-3	X039294.D	03/31/15	23:00	09:32	SR859-2
FA23189-5	X039295.D	03/31/15	23:25	09:57	SR859-3
FA23189-7	X039296.D	03/31/15	23:49	10:21	SR859-4
FA23189-9	X039297.D	04/01/15	00:14	10:46	SR859-5
FA23189-11	X039298.D	04/01/15	00:38	11:10	SR859-6
SX1827-ECC1826	X039299.D	04/01/15	01:02	11:34	Ending cal 50

Instrument Performance Check (DFTPP)

Job Number: FA23189
Account: FPMRNYR FPM Remediations
Project: HM-AZ PBR Holloman AFB; Alamogordo, NM

Sample: SX1828-DFTPP
Lab File ID: X039302.D
Instrument ID: GCMSX
Injection Date: 04/01/15
Injection Time: 09:40

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
51	30.0 - 60.0% of mass 198	74706	45.2		Pass
68	Less than 2.0% of mass 69	0	0.00	(0.00) [a]	Pass
69	Mass 69 relative abundance	72376	43.8		Pass
70	Less than 2.0% of mass 69	244	0.15	(0.34) [a]	Pass
127	40.0 - 60.0% of mass 198	80235	48.5		Pass
197	Less than 1.0% of mass 198	665	0.40		Pass
198	Base peak, 100% relative abundance	165355	100.0		Pass
199	5.0 - 9.0% of mass 198	11317	6.84		Pass
275	10.0 - 30.0% of mass 198	38731	23.4		Pass
365	1.0 - 100.0% of mass 198	4135	2.50		Pass
441	Present, but less than mass 443	26141	15.8	(81.1) [b]	Pass
442	40.0 - 100.0% of mass 198	157845	95.5		Pass
443	17.0 - 23.0% of mass 442	32221	19.5	(20.4) [c]	Pass

(a) Value is % of mass 69
(b) Value is % of mass 443
(c) Value is % of mass 442

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
SX1828-CC1826	X039303.D	04/01/15	09:55	00:15	Continuing cal 50
SX1828-ICV1826	X039304.D	04/01/15	10:19	00:39	Initial cal verification 50
OP55531-BS	X039305.D	04/01/15	10:44	01:04	Blank Spike
OP55531-MB	X039306.D	04/01/15	11:08	01:28	Method Blank
ZZZZZZ	X039307.D	04/01/15	11:33	01:53	(unrelated sample)
ZZZZZZ	X039308.D	04/01/15	11:58	02:18	(unrelated sample)
FA23189-13	X039309.D	04/01/15	12:22	02:42	SR859-7
FA23189-14	X039310.D	04/01/15	12:47	03:07	SR859-107
FA23189-16	X039311.D	04/01/15	13:11	03:31	SR859-8
FA23189-18	X039312.D	04/01/15	13:36	03:56	SR859-9
FA23189-20	X039313.D	04/01/15	14:01	04:21	SR859-10
FA23189-22	X039314.D	04/01/15	14:48	05:08	SR859-11
FA23189-24	X039315.D	04/01/15	15:13	05:33	SR859-12
FA23189-25	X039316.D	04/01/15	15:38	05:58	SR859-112
FA23189-27	X039317.D	04/01/15	16:02	06:22	SR859-13
FA23189-29	X039318.D	04/01/15	16:27	06:47	SR859-14
OP55531-MS	X039319.D	04/01/15	16:52	07:12	Matrix Spike
OP55531-MSD	X039320.D	04/01/15	17:16	07:36	Matrix Spike Duplicate
FA23189-31	X039321.D	04/01/15	17:41	08:01	SR859-15

Instrument Performance Check (DFTPP)

Job Number: FA23189
Account: FPMRNYR FPM Remediations
Project: HM-AZ PBR Holloman AFB; Alamogordo, NM

Sample: SX1828-DFTPP
Lab File ID: X039302.D
Instrument ID: GCMSX
Injection Date: 04/01/15
Injection Time: 09:40

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
FA23189-33	X039322.D	04/01/15	18:06	08:26	SR859-16
FA23189-35	X039323.D	04/01/15	18:30	08:50	SR859-17
FA23189-37	X039324.D	04/01/15	18:55	09:15	SR859-18
FA23189-39	X039325.D	04/01/15	19:20	09:40	SR859-19
FA23189-41	X039326.D	04/01/15	19:44	10:04	SR859-20
SX1828-ECC1826	X039327.D	04/01/15	20:09	10:29	Ending cal 50

Semivolatile Internal Standard Area Summary

Job Number: FA23189
Account: FPMRNYR FPM Remediations
Project: HM-AZ PBR Holloman AFB; Alamogordo, NM

Check Std:	ST810-CC809	**Injection Date:**	04/06/15
Lab File ID:	T017708.D	**Injection Time:**	10:54
Instrument ID:	GCMST	**Method:**	SW846 8270D BY SIM

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT
Initial Cal [a]	354871	6.37	183614	7.91	297615	9.21	187477	11.74	138051	13.94
Check Std [b]	286857	6.37	142891	7.90	229870	9.21	182909	11.74	126204	13.93
Upper Limit [c]	573714	6.87	285782	8.40	459740	9.71	365818	12.24	252408	14.43
Lower Limit [d]	143429	5.87	71446	7.40	114935	8.71	91455	11.24	63102	13.43

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT
OP55540-BS	271093	6.37	138467	7.90	232303	9.21	196083	11.74	142178	13.93
OP55540-MB	281092	6.37	146539	7.90	238770	9.21	175661	11.74	109204	13.93
FA23189-43	284957	6.37	143493	7.90	235040	9.21	177264	11.74	108877	13.93
ZZZZZZ	263967	6.38	151172	7.90	247503	9.21	189633	11.74	138809	13.94
ZZZZZZ	289833	6.37	149327	7.90	245349	9.21	198092	11.73	143961	13.93
OP55540-MS	295257	6.37	148712	7.90	246339	9.21	195493	11.74	142048	13.93
OP55540-MSD	293741	6.37	147954	7.90	239070	9.21	188586	11.74	134320	13.93
ZZZZZZ	271512	6.37	140218	7.90	229130	9.21	161434	11.74	119935	13.93
ZZZZZZ	272895	6.37	144448	7.90	228945	9.21	178810	11.74	131689	13.93
ZZZZZZ	266265	6.37	138054	7.90	224716	9.21	169985	11.74	127915	13.93
ZZZZZZ	265461	6.37	138047	7.90	224821	9.21	162298	11.74	122980	13.93
ZZZZZZ	259816	6.37	139326	7.90	226269	9.21	155298	11.74	112677	13.93
ZZZZZZ	285787	6.37	145736	7.90	237120	9.21	177622	11.74	126354	13.94

IS 1 = Naphthalene-d8
IS 2 = Acenaphthene-D10
IS 3 = Phenanthrene-d10
IS 4 = Chrysene-d12
IS 5 = Perylene-d12

(a) Initial Cal is: ST809-ICC809 T017701.D 04/01/15 15:06
(b) Check Std Limit = -50 to + 100% of initial cal area.
(c) Upper Limit = + 100% of check standard area; Retention time + 0.5 minutes.
(d) Lower Limit = -50% of check standard area; Retention time -0.5 minutes.

Semivolatile Internal Standard Area Summary

Job Number: FA23189
Account: FPMRNYR FPM Remediations
Project: HM-AZ PBR Holloman AFB; Alamogordo, NM

Check Std:	ST811-CC809	**Injection Date:**	04/07/15
Lab File ID:	T017724.D	**Injection Time:**	10:26
Instrument ID:	GCMST	**Method:**	SW846 8270D BY SIM

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT
Initial Cal [a]	354871	6.37	183614	7.91	297615	9.21	187477	11.74	138051	13.94
Check Std [b]	280510	6.37	141501	7.90	229658	9.21	181883	11.74	124709	13.93
Upper Limit [c]	561020	6.87	283002	8.40	459316	9.71	363766	12.24	249418	14.43
Lower Limit [d]	140255	5.87	70751	7.40	114829	8.71	90942	11.24	62355	13.43

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT
OP55540-BS	285845	6.37	147706	7.90	236180	9.21	184963	11.74	136914	13.94
OP55540-MB	289481	6.37	153151	7.90	239476	9.21	185366	11.73	134123	13.93
ZZZZZZ	268447	6.37	140799	7.90	230741	9.21	151023	11.74	118976	13.93
ZZZZZZ	280705	6.37	142783	7.91	230066	9.21	136188	11.74	100880	13.94
ZZZZZZ	274786	6.37	141164	7.91	230248	9.21	130802	11.74	98266	13.94
ZZZZZZ	276883	6.37	138640	7.90	237829	9.21	132449	11.74	98967	13.93
OP55505-MS	307333	6.37	147552	7.90	246294	9.21	175186	11.74	103312	13.93
OP55505-MSD	305684	6.37	146863	7.90	242495	9.21	138277	11.74	100699	13.93
ZZZZZZ	276689	6.37	140623	7.90	227487	9.21	165783	11.74	119056	13.93
OP55593-BS	279643	6.37	143677	7.90	232871	9.21	173533	11.74	99790	13.93
OP55593-MB	269790	6.37	141986	7.90	228273	9.21	171239	11.74	100165	13.93
ZZZZZZ	274061	6.37	137952	7.90	223892	9.21	154839	11.74	120868	13.93
FA23271-13	267602	6.37	140056	7.90	219946	9.21	154147	11.74	97880	13.93

IS 1 = Naphthalene-d8
IS 2 = Acenaphthene-D10
IS 3 = Phenanthrene-d10
IS 4 = Chrysene-d12
IS 5 = Perylene-d12

(a) Initial Cal is: ST809-ICC809 T017701.D 04/01/15 15:06
(b) Check Std Limit = -50 to + 100% of initial cal area.
(c) Upper Limit = + 100% of check standard area; Retention time + 0.5 minutes.
(d) Lower Limit = -50% of check standard area; Retention time -0.5 minutes.

Semivolatile Internal Standard Area Summary

Job Number: FA23189
Account: FPMRNYR FPM Remediations
Project: HM-AZ PBR Holloman AFB; Alamogordo, NM

Check Std:	SU2287-CC2285	**Injection Date:**	04/01/15
Lab File ID:	U049953.D	**Injection Time:**	09:59
Instrument ID:	GCMSU	**Method:**	SW846 8270D

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT	IS 6 AREA	RT
Initial Cal [a]	83828	4.73	318088	5.83	182593	8.05	299342	10.48	273875	15.39	248396	17.90
Check Std [b]	90193	4.71	332268	5.81	180436	8.03	290001	10.46	263409	15.36	236037	17.87
Upper Limit [c]	180386	5.21	664536	6.31	360872	8.53	580002	10.96	526818	15.86	472074	18.37
Lower Limit [d]	45097	4.21	166134	5.31	90218	7.53	145001	9.96	131705	14.86	118019	17.37

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT	IS 6 AREA	RT
OP55508-BS	79239	4.71	311909	5.81	159547	8.03	261724	10.45	240530	15.36	211371	17.86
OP55508-MB	95864	4.71	340692	5.81	185343	8.02	292264	10.45	272867	15.35	241897	17.86
FA23147-2	121948	4.71	438162	5.82	237130	8.03	359853	10.45	314517	15.36	270899	17.86
OP55508-MS	83762	4.71	321475	5.81	163422	8.03	265054	10.45	246253	15.36	219008	17.86
OP55508-MSD	73733	4.71	282029	5.81	143515	8.03	236435	10.45	227700	15.36	201255	17.86
ZZZZZZ	103702	4.71	378155	5.81	207038	8.03	327681	10.45	290057	15.36	243402	17.86
ZZZZZZ	135253	4.72	493935	5.82	270240	8.03	404959	10.45	314471	15.36	242295	17.86
ZZZZZZ	66879	4.71	242947	5.81	135947	8.02	222822	10.45	222350	15.35	196474	17.86
ZZZZZZ	58106	4.71	215490	5.81	120961	8.02	199276	10.45	194813	15.35	169838	17.86
ZZZZZZ	83186	4.72	298909	5.82	174231	8.03	266732	10.45	240708	15.35	209084	17.86
ZZZZZZ	81920	4.71	297916	5.81	162636	8.03	254189	10.45	226811	15.35	193763	17.86
ZZZZZZ	65405	4.71	240743	5.81	138607	8.03	230936	10.45	221213	15.36	196332	17.86
ZZZZZZ	146743	4.72	538073	5.82	296294	8.03	448209	10.45	353494	15.36	274319	17.86
OP55512-BS	55286	4.71	215711	5.81	105945	8.03	169434	10.45	157772	15.36	133519	17.86
ZZZZZZ	48963	4.71	175591	5.81	96420	8.02	161184	10.45	162568	15.35	142799	17.86
ZZZZZZ	68867	4.71	249501	5.81	137057	8.02	216548	10.45	201174	15.36	170641	17.86
OP55512-MS	60532	4.71	243984	5.81	125283	8.02	201639	10.45	189869	15.36	159474	17.86
FA23147-2	73573	4.71	264951	5.81	147155	8.02	234519	10.45	221771	15.35	190924	17.86
ZZZZZZ	88250	4.71	312108	5.81	172384	8.02	275943	10.45	259845	15.35	224461	17.86
ZZZZZZ	58981	4.71	209204	5.81	116444	8.02	193591	10.45	190656	15.35	164136	17.86
ZZZZZZ	68325	4.71	248634	5.81	140951	8.02	230871	10.45	227039	15.35	198088	17.86
ZZZZZZ	74756	4.71	269783	5.81	148374	8.02	248809	10.45	240655	15.35	211182	17.86
SU2287-ECC2285	54751	4.71	203176	5.81	114674	8.03	191882	10.45	179661	15.36	160903	17.86

IS 1 = 1,4-Dichlorobenzene-d4
IS 2 = Naphthalene-d8
IS 3 = Acenaphthene-D10
IS 4 = Phenanthrene-d10
IS 5 = Chrysene-d12
IS 6 = Perylene-d12

(a) Initial Cal is: SU2285-ICC2285 U049901.D 03/30/15 14:42
(b) Check Std Limit = -50 to + 100% of initial cal area.

Semivolatile Internal Standard Area Summary

Job Number: FA23189
Account: FPMRNYR FPM Remediations
Project: HM-AZ PBR Holloman AFB; Alamogordo, NM

Check Std:	SU2287-CC2285	**Injection Date:**	04/01/15
Lab File ID:	U049953.D	**Injection Time:**	09:59
Instrument ID:	GCMSU	**Method:**	SW846 8270D

Lab	IS 1		IS 2		IS 3		IS 4		IS 5		IS 6	
Sample ID	**AREA**	**RT**	**AREA**	**RT**	**AREA**	**RT**	**AREA**	**RT**	**AREA**	**RT**	**AREA**	**RT**

(c) Upper Limit = + 100% of check standard area; Retention time + 0.5 minutes.
(d) Lower Limit = -50% of check standard area; Retention time -0.5 minutes.

Semivolatile Internal Standard Area Summary

Job Number: FA23189
Account: FPMRNYR FPM Remediations
Project: HM-AZ PBR Holloman AFB; Alamogordo, NM

Check Std:	SX1827-CC1826	**Injection Date:**	03/31/15
Lab File ID:	X039273.D	**Injection Time:**	13:43
Instrument ID:	GCMSX	**Method:**	SW846 8270D

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT	IS 6 AREA	RT
Initial Cal [a]	294565	5.04	1158100	6.14	623440	7.69	993506	8.98	883242	11.63	589324	13.96
Check Std [b]	341723	5.01	1279172	6.11	707257	7.65	1101490	8.94	949451	11.57	639319	13.88
Upper Limit [c]	683446	5.51	2558344	6.61	1414514	8.15	2202980	9.44	1898902	12.07	1278638	14.38
Lower Limit [d]	170862	4.51	639586	5.61	353629	7.15	550745	8.44	474726	11.07	319660	13.38

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT	IS 6 AREA	RT
OP55512-BS	340100	5.01	1265824	6.11	657504	7.65	992540	8.94	821563	11.58	546833	13.89
OP55512-MB	353740	5.01	1329610	6.10	710886	7.65	1060613	8.94	804242	11.57	494028	13.88
ZZZZZZ	342785	5.01	1285777	6.10	701261	7.65	1045818	8.94	840283	11.57	548022	13.88
ZZZZZZ	409904	5.01	1558502	6.10	827176	7.65	1209765	8.94	934383	11.57	628070	13.88
ZZZZZZ	372960	5.01	1357665	6.10	704517	7.65	1016907	8.94	789674	11.57	524369	13.89
ZZZZZZ	353995	5.01	1316570	6.10	693892	7.65	1002305	8.94	779100	11.57	510319	13.88
ZZZZZZ	341144	5.01	1294689	6.10	680387	7.65	1015848	8.94	758295	11.57	502634	13.88
ZZZZZZ	328865	5.01	1239075	6.10	661283	7.65	927353	8.93	693744	11.57	495858	13.89
ZZZZZZ	331282	5.01	1243743	6.10	654938	7.65	937836	8.94	738779	11.57	537980	13.90
ZZZZZZ	340162	5.01	1267865	6.10	669881	7.65	977433	8.94	742360	11.57	533680	13.90
ZZZZZZ	318018	5.01	1199408	6.10	641192	7.65	940900	8.94	710380	11.57	508568	13.89
ZZZZZZ	321823	5.01	1204124	6.11	653683	7.65	983225	8.94	865315	11.58	564080	13.91
ZZZZZZ	324722	5.01	1212539	6.11	685025	7.66	1000393	8.95	854008	11.58	568422	13.91
ZZZZZZ	299217	5.01	1161403	6.11	626590	7.65	960228	8.94	865922	11.61	362309	13.94
ZZZZZZ	604590	5.01	2157311	6.11	1230216	7.66	1804303	8.94	1565697	11.58	1135094	13.91
FA23106-3	398220	5.01	1479024	6.11	804189	7.65	1213029	8.94	910457	11.57	606844	13.90
OP55512-MSD	302012	5.01	1142915	6.11	601810	7.65	915653	8.94	789063	11.58	546506	13.90
FA23189-1	293289	5.01	1120903	6.10	598403	7.65	891590	8.94	681029	11.57	457706	13.90
FA23189-3	304646	5.01	1150435	6.10	622217	7.65	925448	8.94	730886	11.57	489941	13.90
FA23189-5	296308	5.01	1118744	6.10	598464	7.65	900973	8.94	700662	11.57	460350	13.89
FA23189-7	296851	5.01	1133661	6.10	600096	7.65	893735	8.94	678423	11.57	446061	13.89
FA23189-9	305807	5.01	1172754	6.10	634569	7.65	930105	8.94	698765	11.57	469807	13.89
FA23189-11	317858	5.01	1206457	6.10	621221	7.65	946742	8.94	709677	11.57	488412	13.89
SX1827-ECC1826	312342	5.01	1201677	6.11	657589	7.66	1019941	8.94	892354	11.58	595573	13.90

IS 1 = 1,4-Dichlorobenzene-d4
IS 2 = Naphthalene-d8
IS 3 = Acenaphthene-D10
IS 4 = Phenanthrene-d10
IS 5 = Chrysene-d12
IS 6 = Perylene-d12

(a) Initial Cal is: SX1826-ICC1826 X039252.D 03/30/15 16:19

Semivolatile Internal Standard Area Summary

Job Number: FA23189
Account: FPMRNYR FPM Remediations
Project: HM-AZ PBR Holloman AFB; Alamogordo, NM

Check Std:	SX1827-CC1826	**Injection Date:**	03/31/15
Lab File ID:	X039273.D	**Injection Time:**	13:43
Instrument ID:	GCMSX	**Method:**	SW846 8270D

Lab	IS 1		IS 2		IS 3		IS 4		IS 5		IS 6	
Sample ID	**AREA**	**RT**	**AREA**	**RT**	**AREA**	**RT**	**AREA**	**RT**	**AREA**	**RT**	**AREA**	**RT**

(b) Check Std Limit = -50 to + 100% of initial cal area.
(c) Upper Limit = + 100% of check standard area; Retention time + 0.5 minutes.
(d) Lower Limit = -50% of check standard area; Retention time -0.5 minutes.

Semivolatile Internal Standard Area Summary

Job Number: FA23189
Account: FPMRNYR FPM Remediations
Project: HM-AZ PBR Holloman AFB; Alamogordo, NM

Check Std:	SX1828-CC1826	**Injection Date:**	04/01/15
Lab File ID:	X039303.D	**Injection Time:**	09:55
Instrument ID:	GCMSX	**Method:**	SW846 8270D

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT	IS 6 AREA	RT
Initial Cal [a]	294565	5.04	1158100	6.14	623440	7.69	993506	8.98	883242	11.63	589324	13.96
Check Std [b]	240949	4.99	950728	6.09	533247	7.63	841443	8.92	729777	11.55	480155	13.85
Upper Limit [c]	481898	5.49	1901456	6.59	1066494	8.13	1682886	9.42	1459554	12.05	960310	14.35
Lower Limit [d]	120475	4.49	475364	5.59	266624	7.13	420722	8.42	364889	11.05	240078	13.35

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT	IS 6 AREA	RT
OP55531-BS	226810	4.99	899192	6.09	468870	7.63	699439	8.92	588009	11.54	398465	13.84
OP55531-MB	242947	4.99	932907	6.08	502089	7.63	738884	8.91	561277	11.53	349444	13.84
ZZZZZZ	232701	4.99	898690	6.08	476385	7.63	706103	8.91	528401	11.53	332852	13.84
ZZZZZZ	234217	4.99	909541	6.08	486482	7.63	722842	8.91	547938	11.53	349934	13.84
FA23189-13	231713	4.99	919137	6.08	477909	7.63	705321	8.91	523721	11.53	347809	13.84
FA23189-14	241738	4.99	925371	6.08	505035	7.63	739261	8.91	570674	11.53	353911	13.84
FA23189-16	247052	4.99	956142	6.08	499065	7.63	734581	8.91	570507	11.53	358189	13.84
FA23189-18	232871	4.99	909839	6.08	471024	7.63	692938	8.91	533939	11.53	344361	13.84
FA23189-20	238066	4.99	926577	6.08	489621	7.63	709055	8.91	564608	11.53	373139	13.84
FA23189-22	266185	4.99	1005676[e]	6.08	531611	7.63	792341	8.92	621210	11.54	395850	13.85
FA23189-24	294237	4.99	1114940	6.08	580864	7.63	860330	8.92	649200	11.54	413774	13.84
FA23189-25	368763	4.99	1383211	6.09	762486	7.63	1143339	8.92	837022	11.54	563816	13.84
FA23189-27	239350	4.99	920035	6.08	484172	7.63	722393	8.91	575131	11.54	384493	13.84
FA23189-29	237254	4.99	900134	6.08	489525	7.63	716625	8.91	565215	11.53	376418	13.84
OP55531-MS	239286	4.99	926622	6.09	487956	7.63	757233	8.92	658850	11.54	437893	13.84
OP55531-MSD	238273	4.99	921911	6.09	487910	7.63	752130	8.92	655940	11.54	446715	13.84
FA23189-31	231377	4.99	902873	6.08	468275	7.63	704060	8.91	554590	11.54	365745	13.84
FA23189-33	238185	4.99	910975	6.08	493041	7.63	738115	8.91	586049	11.53	392660	13.84
FA23189-35	244510	4.99	944316	6.08	496151	7.63	752939	8.91	581086	11.53	381351	13.84
FA23189-37	248147	4.99	941078	6.08	500321	7.63	750430	8.91	591107	11.53	385482	13.84
FA23189-39	250163	4.99	967006	6.08	502639	7.63	755300	8.91	600419	11.53	412678	13.84
FA23189-41	268534	4.99	1007172	6.08	537206	7.63	796258	8.91	617526	11.53	407672	13.84
SX1828-ECC1826	328427	4.99	1242980	6.09	711383	7.64	1138658	8.92	993196	11.55	614774	13.85

IS 1 = 1,4-Dichlorobenzene-d4
IS 2 = Naphthalene-d8
IS 3 = Acenaphthene-D10
IS 4 = Phenanthrene-d10
IS 5 = Chrysene-d12
IS 6 = Perylene-d12

(a) Initial Cal is: SX1826-ICC1826 X039252.D 03/30/15 16:19
(b) Check Std Limit = -50 to + 100% of initial cal area.

Semivolatile Internal Standard Area Summary

Job Number: FA23189
Account: FPMRNYR FPM Remediations
Project: HM-AZ PBR Holloman AFB; Alamogordo, NM

Check Std:	SX1828-CC1826	**Injection Date:**	04/01/15
Lab File ID:	X039303.D	**Injection Time:**	09:55
Instrument ID:	GCMSX	**Method:**	SW846 8270D

Lab	IS 1		IS 2		IS 3		IS 4		IS 5		IS 6	
Sample ID	**AREA**	**RT**	**AREA**	**RT**	**AREA**	**RT**	**AREA**	**RT**	**AREA**	**RT**	**AREA**	**RT**

(c) Upper Limit = + 100% of check standard area; Retention time + 0.5 minutes.
(d) Lower Limit = -50% of check standard area; Retention time -0.5 minutes.
(e) Outside control limits. However, sample was ND.

Semivolatile Surrogate Recovery Summary

Job Number: FA23189
Account: FPMRNYR FPM Remediations
Project: HM-AZ PBR Holloman AFB; Alamogordo, NM

Method: SW846 8270D **Matrix:** SO

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1	S2	S3
FA23189-1	X039293.D	70	72	92
FA23189-3	X039294.D	76	80	101
FA23189-5	X039295.D	81	84	108
FA23189-7	X039296.D	82	82	108
FA23189-9	X039297.D	82	83	103
FA23189-11	X039298.D	77	83	102
FA23189-13	X039309.D	71	74	96
FA23189-14	X039310.D	71	70	98
FA23189-16	X039311.D	76	80	98
FA23189-18	X039312.D	72	78	97
FA23189-20	X039313.D	77	82	105
FA23189-22	X039314.D	85	89	112
FA23189-24	X039315.D	75	79	104
FA23189-25	X039316.D	75	74	99
FA23189-27	X039317.D	77	80	101
FA23189-29	X039318.D	81	82	109
FA23189-31	X039321.D	73	75	93
FA23189-33	X039322.D	70	72	92
FA23189-35	X039323.D	70	74	90
FA23189-37	X039324.D	71	73	95
FA23189-39	X039325.D	81	85	107
FA23189-41	X039326.D	75	77	98
OP55512-BS	X039274.D	82	86	97
OP55512-BS	U049968.D	79	89	94
OP55512-MB	X039275.D	74	79	99
OP55512-MS	U049971.D	69	78	85
OP55512-MSD	X039292.D	63	69	84
OP55531-BS	X039305.D	75	81	95
OP55531-MB	X039306.D	69	72	91
OP55531-MS	X039319.D	64	68	87
OP55531-MSD	X039320.D	75	80	90

Surrogate Compounds	Recovery Limits
S1 = Nitrobenzene-d5	40-105%
S2 = 2-Fluorobiphenyl	43-107%
S3 = Terphenyl-d14	45-119%

Semivolatile Surrogate Recovery Summary

Job Number: FA23189
Account: FPMRNYR FPM Remediations
Project: HM-AZ PBR Holloman AFB; Alamogordo, NM

Method: SW846 8270D BY SIM **Matrix:** AQ

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1	S2	S3
FA23189-43	T017711.D	83	80	81
OP55540-BS	T017709.D	102	97	89
OP55540-BS	T017725.D	100	97	100
OP55540-MB	T017710.D	84	80	84
OP55540-MB	T017726.D	84	77	78
OP55540-MS	T017714.D	70	71	74
OP55540-MSD	T017715.D	74	73	81

Surrogate Compounds	Recovery Limits
S1 = Nitrobenzene-d5	41-129%
S2 = 2-Fluorobiphenyl	41-118%
S3 = Terphenyl-d14	45-145%

Initial Calibration Summary

Job Number: FA23189
Account: FPMRNYR FPM Remediations
Project: HM-AZ PBR Holloman AFB; Alamogordo, NM

Sample: ST809-ICC809
Lab FileID: T017701.D

Response Factor Report MSBNA06

Method : C:\msdchem\1\METHODS\SIM_LV.M (RTE Integrator)
Title : PAH's by 8270 SIM
Last Update : Mon Apr 06 14:20:40 2015
Response via : Initial Calibration

Calibration Files
L1 =T017698.D L2 =T017699.D L3 =T017700.D L4 =T017701.D
L5 =T017702.D L6 =T017703.D L7 =T017704.D

Compound	L1	L2	L3	L4	L5	L6	L7	Avg	%RSD
1) I Naphthalene-d8	----------ISTD----------								
2)S Nitrobenzene-d5	0.447	0.440	0.452	0.469	0.497	0.472	0.456	0.462	4.14
3)P Naphthalene	1.250	1.274	1.209	1.242	1.309	1.232	1.145	1.237	4.17
4)P 2-Methylnaphthale	0.712	0.752	0.752	0.774	0.841	0.761	0.699	0.756	6.09
5)P 1-Methylnaphthale	0.683	0.750	0.721	0.741	0.774	0.694	0.633	0.714	6.65
6) I Acenaphthene-d10	----------ISTD----------								
7)S 2-Fluorobiphenyl	1.571	1.817	1.647	1.648	1.749	1.529	1.446	1.630	7.81
8)P Acenaphthylene	2.178	2.501	2.291	2.353	2.512	2.267	2.066	2.310	7.03
9)P Acenaphthene	1.477	1.456	1.454	1.433	1.518	1.320	1.220	1.411	7.38
10)P Fluorene	1.267	1.417	1.621	1.585	1.722	1.523	1.396	1.504	10.27
11) I Phenanthrene-d10	----------ISTD----------								
12)s 2,4,6-Tribromophe	0.156	0.201	0.094	0.102	0.116	0.122	0.116	0.129	28.64
---- Quadratic regr., Force(0,0) ---- Coefficient = 0.9993									
Response Ratio = 0.00000 + 0.12133 *A + -0.00012 *A^2									
13)P Pentachlorophenol	0.019	0.024	0.014	0.022	0.032	0.043	0.050	0.029#	45.71
---- Quadratic regr., Force(0,0) ---- Coefficient = 0.9987									
Response Ratio = 0.00000 + 0.03204 *A + 0.00036 *A^2									
14)P Phenanthrene	1.350	1.391	1.340	1.356	1.414	1.250	1.114	1.316	7.83
15)P Anthracene	1.428	1.452	1.382	1.407	1.488	1.395	1.241	1.399	5.59
16)P Fluoranthene	1.362	1.385	1.094	1.353	1.372	1.320	1.148	1.291	9.19
17) I Chrysene-d12	----------ISTD----------								
18)P Pyrene	1.832	1.861	1.750	2.217	1.967	1.633	1.526	1.827	12.39
19)S Terphenyl-d14	0.978	0.990	0.928	1.167	0.976	0.863	0.836	0.962	11.21
20)P Benzo[a]anthracen	1.353	1.338	1.278	1.300	1.400	1.334	1.308	1.330	3.01
21)P Chrysene	1.305	1.362	1.276	1.271	1.351	1.259	1.222	1.292	3.91
22) I Perylene-d12	----------ISTD----------								
23)P Benzo[b]fluoranth	1.348	1.385	1.372	1.406	1.526	1.456	1.517	1.430	4.96
24)P Benzo[k]fluoranth	1.503	1.596	1.489	1.513	1.631	1.504	1.493	1.533	3.71
25)P Benzo[a]pyrene	1.265	1.298	1.267	1.293	1.437	1.367	1.346	1.325	4.72
26)P Indeno[1,2,3-cd]p	1.040	1.038	0.888	0.931	1.030	1.013	1.021	0.994	6.05
27)P Dibenz[a,h]anthra	1.028	1.061	0.921	0.986	1.089	1.058	1.100	1.035	6.06
28)P Benzo[g,h,i]peryl	1.220	1.269	1.024	1.056	1.134	1.095	1.037	1.119	8.41

(#) = Out of Range

SIM_LV.M Mon Apr 06 14:23:47 2015

Initial Calibration Verification

Job Number: FA23189
Account: FPMRNYR FPM Remediations
Project: HM-AZ PBR Holloman AFB; Alamogordo, NM

Sample: ST809-ICV809
Lab FileID: T017706.D

Evaluate Continuing Calibration Report

```
Data File : C:\msdchem\1\DATA\st809\T017706.D            Vial: 9
Acq On    :  1 Apr 2015   5:38 pm                    Operator: mayrag
Sample    : icv809-4                                 Inst    : MSBNA06
Misc      : op55409,st809,250,,,1,1,water            Multiplr: 1.00
MS Integration Params: RTEINT.P

Method       : C:\msdchem\1\METHODS\SIM_LV.M (RTE Integrator)
Title        : PAH's by 8270 SIM
Last Update  : Mon Apr 06 14:20:40 2015
Response via : Multiple Level Calibration

Min. RRF     :   0.050  Min. Rel. Area :  50%  Max. R.T. Dev  0.50min
Max. RRF Dev :  20%     Max. Rel. Area : 200%
```

		Compound	Amount	Calc.	%Drift	Area%	Dev(min)	R.T.
1	I	Naphthalene-d8	500.000	500.000	0.0	84	0.00	6.37
2	S	Nitrobenzene-d5		----------NA----------				
3	P	Naphthalene	1000.000	899.920	10.0	75	0.00	6.39
4	P	2-Methylnaphthalene	1000.000	887.714	11.2	73	0.00	7.00
5	P	1-Methylnaphthalene	1000.000	965.082	3.5	78	0.00	7.08
6	I	Acenaphthene-d10	500.000	500.000	0.0	83	0.00	7.90
7	S	2-Fluorobiphenyl		----------NA----------				
8	P	Acenaphthylene	1000.000	903.300	9.7	74	0.00	7.78
9	P	Acenaphthene	1000.000	941.530	5.8	77	0.00	7.93
10	P	Fluorene	1000.000	989.724	1.0	78	0.00	8.39
11	I	Phenanthrene-d10	500.000	500.000	0.0	85	0.00	9.21
		----------	Amount	Calc.	%Drift		----------	
12	s	2,4,6-Tribromophenol		----------NA----------				
13	P	Pentachlorophenol	2500.000	2366.660	5.3	124	0.00	9.06
		----------	Amount	Calc.	%Drift		----------	
14	P	Phenanthrene	1000.000	930.491	7.0	77	0.00	9.23
15	P	Anthracene	500.000	423.610	15.3	72	0.00	9.27
16	P	Fluoranthene	1000.000	913.492	8.7	74	0.00	10.28
17	I	Chrysene-d12	500.000	500.000	0.0	86	0.00	11.74
18	P	Pyrene	1000.000	1057.881	-5.8	75	0.00	10.47
19	S	Terphenyl-d14		----------NA----------				
20	P	Benzo[a]anthracene	500.000	423.276	15.3	75	0.00	11.73
21	P	Chrysene	500.000	454.591	9.1	80	0.00	11.77
22	I	Perylene-d12	500.000	500.000	0.0	86	0.00	13.94
23	P	Benzo[b]fluoranthene	500.000	437.071	12.6	76	0.00	13.30
24	P	Benzo[k]fluoranthene	500.000	450.729	9.9	78	0.00	13.34
25	P	Benzo[a]pyrene	500.000	419.638	16.1	74	0.00	13.84
26	P	Indeno[1,2,3-cd]pyrene	500.000	403.211	19.4	74	0.00	15.88
27	P	Dibenz[a,h]anthracene	500.000	407.249	18.6	73	0.00	15.95
28	P	Benzo[g,h,i]perylene	500.000	416.935	16.6	76	0.00	16.37

(#) = Out of Range SPCC's out = 0 CCC's out = 0
T017701.D SIM_LV.M Mon Apr 06 14:23:35 2015

Continuing Calibration Summary

Job Number: FA23189
Account: FPMRNYR FPM Remediations
Project: HM-AZ PBR Holloman AFB; Alamogordo, NM

Sample: ST810-CC809
Lab FileID: T017708.D

Evaluate Continuing Calibration Report

```
Data File : C:\msdchem\1\DATA\st810\T017708.D            Vial: 2
Acq On    :  6 Apr 2015  10:54 am                     Operator: mayrag
Sample    : cc809-5                                   Inst    : MSBNA06
Misc      : op55409,st810,250,,,1,1,water             Multiplr: 1.00
MS Integration Params: RTEINT.P

Method       : C:\msdchem\1\METHODS\SIM_LV.M (RTE Integrator)
Title        : PAH's by 8270 SIM
Last Update  : Mon Apr 06 14:20:40 2015
Response via : Multiple Level Calibration

Min. RRF     :   0.050  Min. Rel. Area :  50%  Max. R.T. Dev  0.50min
Max. RRF Dev :  20%     Max. Rel. Area : 200%
```

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1	I	Naphthalene-d8	1.000	1.000	0.0	84	0.00	6.37
2	S	Nitrobenzene-d5	0.462	0.499	-8.0	85	0.00	5.76
3	P	Naphthalene	1.237	1.334	-7.8	86	0.00	6.39
4	P	2-Methylnaphthalene	0.756	0.850	-12.4	85	0.00	7.00
5	P	1-Methylnaphthalene	0.714	0.778	-9.0	85	0.00	7.08
6	I	Acenaphthene-d10	1.000	1.000	0.0	82	0.00	7.90
7	S	2-Fluorobiphenyl	1.630	1.804	-10.7	85	0.00	7.33
8	P	Acenaphthylene	2.310	2.567	-11.1	84	0.00	7.78
9	P	Acenaphthene	1.411	1.567	-11.1	85	0.00	7.93
10	P	Fluorene	1.504	1.735	-15.4	83	0.00	8.39
11	I	Phenanthrene-d10	1.000	1.000	0.0	80	0.00	9.21
			Amount	Calc.	%Drift			
12	s	2,4,6-Tribromophenol	4000.000	3740.971	6.5	78	0.00	8.61
13	P	Pentachlorophenol	5000.000	3947.076	21.1#	69	0.00	9.07
			AvgRF	CCRF	%Dev			
14	P	Phenanthrene	1.316	1.466	-11.4	83	0.00	9.23
15	P	Anthracene	1.399	1.514	-8.2	81	0.00	9.28
16	P	Fluoranthene	1.291	1.466	-13.6	85	0.00	10.28
17	I	Chrysene-d12	1.000	1.000	0.0	101	0.00	11.74
18	P	Pyrene	1.827	1.881	-3.0	97	0.00	10.48
19	S	Terphenyl-d14	0.962	1.022	-6.2	106	0.00	10.63
20	P	Benzo[a]anthracene	1.330	1.420	-6.8	103	0.00	11.73
21	P	Chrysene	1.292	1.407	-8.9	105	0.00	11.77
22	I	Perylene-d12	1.000	1.000	0.0	96	0.00	13.93
23	P	Benzo[b]fluoranthene	1.430	1.632	-14.1	102	0.00	13.30
24	P	Benzo[k]fluoranthene	1.533	1.771	-15.5	104	0.00	13.34
25	P	Benzo[a]pyrene	1.325	1.472	-11.1	98	0.00	13.84
26	P	Indeno[1,2,3-cd]pyrene	0.994	0.963	3.1	89	0.00	15.88
27	P	Dibenz[a,h]anthracene	1.035	0.997	3.7	88	0.00	15.95
28	P	Benzo[g,h,i]perylene	1.119	0.913	18.4	77	0.00	16.37

(#) = Out of Range SPCC's out = 0 CCC's out = 0
T017702.D SIM_LV.M Mon Apr 06 15:51:28 2015

Continuing Calibration Summary

Job Number: FA23189
Account: FPMRNYR FPM Remediations
Project: HM-AZ PBR Holloman AFB; Alamogordo, NM

Sample: ST811-CC809
Lab FileID: T017724.D

Evaluate Continuing Calibration Report

```
Data File : C:\msdchem\1\DATA\st811\T017724.D            Vial: 2
Acq On    :  7 Apr 2015  10:26 am                     Operator: mayrag
Sample    : cc809-5                                   Inst    : MSBNA06
Misc      : op55409,st811,250,,,1,1,water             Multiplr: 1.00
MS Integration Params: RTEINT.P

Method       : C:\msdchem\1\METHODS\SIM_LV.M (RTE Integrator)
Title        : PAH's by 8270 SIM
Last Update  : Wed Apr 08 09:06:52 2015
Response via : Multiple Level Calibration

Min. RRF     :   0.050  Min. Rel. Area :  50%  Max. R.T. Dev  0.50min
Max. RRF Dev :  20%     Max. Rel. Area : 200%
```

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1	I	Naphthalene-d8	1.000	1.000	0.0	82	0.00	6.37
2	S	Nitrobenzene-d5	0.462	0.521	-12.8	86	0.00	5.76
3	P	Naphthalene	1.237	1.354	-9.5	85	0.00	6.39
4	P	2-Methylnaphthalene	0.756	0.874	-15.6	86	0.00	7.00
5	P	1-Methylnaphthalene	0.714	0.819	-14.7	87	0.00	7.08
6	I	Acenaphthene-d10	1.000	1.000	0.0	82	0.00	7.90
7	S	2-Fluorobiphenyl	1.630	1.875	-15.0	88	0.00	7.32
8	P	Acenaphthylene	2.310	2.614	-13.2	85	0.00	7.78
9	P	Acenaphthene	1.411	1.567	-11.1	84	0.00	7.93
10	P	Fluorene	1.504	1.755	-16.7	83	0.00	8.39
11	I	Phenanthrene-d10	1.000	1.000	0.0	80	0.00	9.21
		----------	Amount	Calc.	%Drift		----------	
12	s	2,4,6-Tribromophenol	4000.000	4127.500	-3.2	85	0.00	8.61
13	P	Pentachlorophenol	5000.000	5284.486	-5.7	94	0.00	9.07
		----------	AvgRF	CCRF	%Dev		----------	
14	P	Phenanthrene	1.316	1.455	-10.6	82	0.00	9.23
15	P	Anthracene	1.399	1.578	-12.8	85	0.00	9.27
16	P	Fluoranthene	1.291	1.528	-18.4	89	0.00	10.28
17	I	Chrysene-d12	1.000	1.000	0.0	101	0.00	11.74
18	P	Pyrene	1.827	1.978	-8.3	101	0.00	10.47
19	S	Terphenyl-d14	0.962	1.032	-7.3	107	0.00	10.63
20	P	Benzo[a]anthracene	1.330	1.453	-9.2	105	0.00	11.73
21	P	Chrysene	1.292	1.381	-6.9	103	0.00	11.77
22	I	Perylene-d12	1.000	1.000	0.0	95	0.00	13.93
23	P	Benzo[b]fluoranthene	1.430	1.614	-12.9	100	0.00	13.30
24	P	Benzo[k]fluoranthene	1.533	1.750	-14.2	101	0.00	13.34
25	P	Benzo[a]pyrene	1.325	1.540	-16.2	101	0.00	13.83
26	P	Indeno[1,2,3-cd]pyrene	0.994	1.080	-8.7	99	0.00	15.88
27	P	Dibenz[a,h]anthracene	1.035	1.150	-11.1	100	0.00	15.94
28	P	Benzo[g,h,i]perylene	1.119	1.208	-8.0	101	0.00	16.37

```
(#) = Out of Range                SPCC's out = 0  CCC's out = 0
 T017702.D  SIM_LV.M          Wed Apr 08 13:45:54 2015
```

Initial Calibration Summary

Job Number: FA23189
Account: FPMRNYR FPM Remediations
Project: HM-AZ PBR Holloman AFB; Alamogordo, NM
Sample: SU2285-ICC2285
Lab FileID: U049901.D

Response Factor Report MSBNA04

Method : C:\msdchem\2\METHODS\8270da.m (RTE Integrator)
Title : SW846 8270D OR EPA 625
Last Update : Mon Mar 30 16:32:14 2015
Response via : Initial Calibration

Calibration Files
5 =U049898.D 10 =U049899.D 25 =U049900.D 50 =U049901.D
60 =U049902.D 75 =U049903.D 100 =U049904.D

Compound	5	10	25	50	60	75	100	Avg	%RSD
1) I 1,4-Dichlorobenzene-d	----------ISTD----------								
2) 1,4-Dioxane	0.606	0.568	0.560	0.566		0.548	0.554	0.567	3.61
3) N-nitrosodimethyl	0.615	0.570	0.558	0.574		0.571	0.560	0.575	3.61
4) Pyridine	1.549	1.488	1.439	1.511		1.503	1.499	1.498	2.38
5)P Benzaldehyde	1.328	1.261	1.192	1.179		0.956	0.761	1.113	19.16
---- Quadratic regr., Force(0,0) ---- Coefficient = 0.9970									
Response Ratio = 0.00000 + 1.49112 *A + -0.28925 *A^2									
6) Aniline	2.373	2.270	2.203	2.223		2.188	2.125	2.230	3.78
7)S 2-Fluorophenol	1.405	1.358	1.315	1.357		1.341	1.321	1.350	2.41
8)P bis(2-Chloroethyl	1.467	1.417	1.354	1.370		1.336	1.306	1.375	4.22
9)S Phenol-d5	1.570	1.505	1.463	1.456		1.431	1.383	1.468	4.37
10)P Phenol	1.875	1.836	1.763	1.763		1.739	1.677	1.775	3.98
11)P 2-Chlorophenol	1.587	1.557	1.494	1.498		1.465	1.441	1.507	3.67
12) 1,3-Dichlorobenze	1.693	1.669	1.598	1.611		1.572	1.528	1.612	3.79
13) 1,4-Dichlorobenze	1.727	1.653	1.626	1.632		1.577	1.555	1.628	3.72
14) 1,2-Dichlorobenze	1.678	1.595	1.538	1.540		1.496	1.474	1.554	4.74
15) Benzyl alcohol	1.059	0.998	0.983	1.002		0.996	0.950	0.998	3.56
16)P bis(2-chloroisopr	1.860	1.790	1.697	1.703		1.665	1.585	1.717	5.62
17)P 2-Methylphenol	1.420	1.374	1.306	1.323		1.310	1.283	1.336	3.83
18)P Acetophenone	2.098	2.036	1.934	1.976		1.911	1.869	1.971	4.29
19)P Hexachloroethane	0.640	0.610	0.595	0.602		0.598	0.585	0.605	3.14
20)P N-Nitroso-di-n-pr	0.997	0.998	0.935	0.926		0.893	0.874	0.937	5.51
21)P 3&4-Methylphenol	1.492	1.454	1.416	1.399		1.386	1.341	1.415	3.75
22) I Naphthalene-d8	----------ISTD----------								
23)S Nitrobenzene-d5	0.408	0.398	0.385	0.388		0.383	0.380	0.390	2.70
24)P Nitrobenzene	0.415	0.386	0.385	0.382		0.377	0.372	0.386	3.95
25)P Isophorone	0.761	0.733	0.708	0.708		0.701	0.691	0.717	3.56
26)P 2-Nitrophenol	0.218	0.217	0.216	0.220		0.215	0.216	0.217	0.85
27)P 2,4-Dimethylpheno	0.389	0.367	0.366	0.371		0.358	0.355	0.368	3.32
28)P bis(2-Chloroethox	0.456	0.436	0.419	0.420		0.410	0.405	0.424	4.44
29) Benzoic Acid	0.272	0.284	0.292	0.310		0.316	0.319	0.299	6.35
30)P 2,4-Dichloropheno	0.330	0.321	0.316	0.316		0.306	0.304	0.315	3.01
31) 1,2,4-Trichlorobe	0.360	0.350	0.339	0.333		0.327	0.327	0.339	3.94
32) alpha-Terpineol								0.000	-1.00
33)P Naphthalene	1.184	1.138	1.110	1.101		1.066	1.050	1.108	4.39
34)P 4-Chloroaniline	0.521	0.504	0.490	0.489		0.478	0.472	0.492	3.60
35) 2,6-Dichloropheno	0.338	0.323	0.314	0.316		0.307	0.305	0.317	3.85
36)P Hexachlorobutadie	0.187	0.187	0.186	0.182		0.177	0.177	0.183	2.51
37)P Caprolactam	0.136	0.125	0.125	0.129		0.130	0.126	0.129	3.14
38)P 4-Chloro-3-methyl	0.324	0.324	0.318	0.318		0.313	0.312	0.318	1.64
39)P 2-Methylnaphthale	0.808	0.772	0.753	0.749		0.723	0.709	0.752	4.73
40) 1-Methylnaphthale	0.711	0.684	0.660	0.655		0.642	0.626	0.663	4.61
41)P 1,2,4,5-Tetrachlo	0.350	0.351	0.343	0.339		0.332	0.327	0.340	2.84

Initial Calibration Summary

Job Number: FA23189 **Sample:** SU2285-ICC2285
Account: FPMRNYR FPM Remediations **Lab FileID:** U049901.D
Project: HM-AZ PBR Holloman AFB; Alamogordo, NM

```
42) I   Acenaphthene-d10      ----------------ISTD---------------------
43)P Hexachlorocyclope 0.346 0.357 0.384 0.400       0.403 0.402 0.382   6.48
44)P 2,4,6-Trichloroph 0.407 0.391 0.393 0.395       0.394 0.393 0.396   1.46
45)P 2,4,5-Trichloroph 0.438 0.410 0.414 0.421       0.418 0.410 0.419   2.52
46)S 2-Fluorobiphenyl  1.499 1.419 1.406 1.391       1.359 1.332 1.401   4.10
47)P 1,1'-Biphenyl     1.755 1.652 1.552 1.544       1.467 1.446 1.569   7.42
48)P 2-Chloronaphthale 1.266 1.204 1.170 1.160       1.142 1.112 1.176   4.58
49)P 2-Nitroaniline    0.372 0.349 0.347 0.353       0.351 0.346 0.353   2.77
50)  p-Dinitrobenzene  0.260 0.238 0.248 0.253       0.255 0.256 0.252   3.04
51)P Acenaphthylene    2.071 1.982 1.960 1.943       1.898 1.882 1.956   3.47
52)P Dimethylphthalate 1.421 1.359 1.338 1.330       1.310 1.287 1.341   3.46
53)  m-Dinitrobenzene  0.244 0.234 0.240 0.246       0.241 0.240 0.241   1.76
54)P 2,6-Dinitrotoluen 0.345 0.327 0.323 0.323       0.328 0.323 0.328   2.62
55)  o-Dinitrobenzene  0.180 0.164 0.165 0.171       0.170 0.168 0.170   3.32
56)P Acenaphthene      1.261 1.216 1.209 1.181       1.171 1.151 1.198   3.29
57)P 3-Nitroaniline    0.366 0.363 0.361 0.363       0.367 0.364 0.364   0.56
58)P 2,4-Dinitrophenol 0.103 0.154 0.189 0.221       0.239 0.239 0.191  28.36
            ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9983
              Response Ratio = 0.00000 + 0.19481 *A + 0.01904 *A^2

59)P Dibenzofuran      1.785 1.723 1.696 1.703       1.666 1.643 1.703   2.89
60)P 2,4-Dinitrotoluen 0.439 0.436 0.431 0.441       0.440 0.437 0.437   0.86
61)P 4-Nitrophenol     0.143 0.147 0.157 0.160       0.168 0.167 0.157   6.46
62)  2,3,5,6-Tetrachlo 0.329 0.336 0.335 0.352       0.354 0.345 0.342   2.88
63)P 2,3,4,6-Tetrachlo 0.339 0.335 0.325 0.341       0.344 0.337 0.337   1.97
64)P Fluorene          1.451 1.396 1.367 1.339       1.309 1.286 1.358   4.42
65)P 4-Chlorophenyl-ph 0.687 0.646 0.656 0.645       0.645 0.633 0.652   2.85
66)P Diethylphthalate  1.329 1.291 1.287 1.280       1.250 1.225 1.277   2.82
67)P 4-Nitroaniline    0.377 0.360 0.357 0.373       0.370 0.371 0.368   2.10

68) I   Phenanthrene-d10      ----------------ISTD---------------------
69)P 4,6-Dinitro-2-met 0.133 0.146 0.158 0.171       0.172 0.171 0.159  10.09
70)P n-Nitrosodiphenyl 0.639 0.608 0.585 0.590       0.571 0.564 0.593   4.63
71)  Diphenylamine     0.767 0.730 0.702 0.708       0.685 0.677 0.711   4.63
72)  1,2-Diphenylhydra 0.837 0.801 0.780 0.787       0.841 0.831 0.813   3.28
73)S 2,4,6-Tribromophe 0.118 0.117 0.117 0.121       0.117 0.118 0.118   1.29
74)P 4-Bromophenyl-phe 0.229 0.226 0.216 0.224       0.217 0.214 0.221   2.83
75)P Hexachlorobenzene 0.263 0.249 0.245 0.247       0.243 0.237 0.247   3.52
76)  Simazine          0.128 0.128 0.125 0.123       0.121 0.120 0.124   2.57
77)P Atrazine          0.240 0.232 0.225 0.228       0.216 0.217 0.226   4.10
78)P Pentachlorophenol 0.110 0.127 0.139 0.156       0.156 0.159 0.141  13.93
            ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9994
              Response Ratio = 0.00000 + 0.14372 *A + 0.00624 *A^2

79)P Phenanthrene      1.205 1.177 1.150 1.143       1.114 1.104 1.149   3.31
80)P Anthracene        1.240 1.175 1.134 1.148       1.117 1.099 1.152   4.36
81)P Carbazole         1.149 1.112 1.083 1.081       1.048 1.037 1.085   3.80
82)P Di-n-butylphthala 1.313 1.274 1.270 1.267       1.241 1.228 1.266   2.34
83)P Fluoranthene      1.217 1.180 1.168 1.165       1.124 1.120 1.162   3.13

84) I   Chrysene-d12          ----------------ISTD---------------------
85)  Benzidine         0.734 0.728 0.727 0.777       0.692 0.597 0.709   8.65
86)P Pyrene            1.360 1.280 1.250 1.280       1.249 1.221 1.273   3.78
87)S Terphenyl-d14     0.909 0.865 0.852 0.876       0.861 0.846 0.868   2.61
88)P Butylbenzylphthal 0.566 0.549 0.556 0.582       0.572 0.563 0.565   2.06
89)P 3,3'-Dichlorobenz 0.431 0.424 0.423 0.429       0.414 0.396 0.419   3.06
90)P Benzo[a]anthracen 1.159 1.112 1.109 1.137       1.119 1.113 1.125   1.75
91)P Chrysene          1.116 1.048 1.023 1.053       1.038 1.037 1.052   3.14
92)P bis(2-Ethylhexyl) 0.756 0.756 0.758 0.792       0.783 0.772 0.769   1.99
```

Initial Calibration Summary

Job Number: FA23189 **Sample:** SU2285-ICC2285
Account: FPMRNYR FPM Remediations **Lab FileID:** U049901.D
Project: HM-AZ PBR Holloman AFB; Alamogordo, NM

```
 93) I   Perylene-d12          ----------------ISTD---------------------
 94)P Di-n-octylphthala 1.400 1.382 1.420 1.477       1.455 1.381 1.419   2.78
 95)P Benzo[b]fluoranth 1.217 1.171 1.195 1.213       1.189 1.201 1.198   1.42
 96)P Benzo[k]fluoranth 1.174 1.184 1.148 1.162       1.110 1.044 1.137   4.60
 97)P Benzo[a]pyrene    1.165 1.144 1.148 1.176       1.155 1.140 1.155   1.17
 98)P Indeno[1,2,3-cd]p 1.046 1.015 1.058 1.105       1.085 1.133 1.074   3.97
 99)P Dibenz[a,h]anthra 1.011 0.986 1.037 1.110       1.089 1.128 1.060   5.41
100)P Benzo[g,h,i]peryl 1.117 1.095 1.104 1.132       1.109 1.159 1.119   2.07
 ----------------------------------------------------------------------------
 (#) = Out of Range

           8270da.m          Tue Mar 31 08:40:34 2015
```

6.7.5

6

Initial Calibration Verification

Job Number: FA23189
Account: FPMRNYR FPM Remediations
Project: HM-AZ PBR Holloman AFB; Alamogordo, NM

Sample: SU2285-ICV2285
Lab FileID: U049905.D

Evaluate Continuing Calibration Report

Data File : C:\msdchem\2\DATA\SU2285\U049905.D Vial: 9
Acq On : 30 Mar 2015 4:34 pm Operator: nareshj
Sample : icv2285-50 Inst : MSBNA04
Misc : op55483,su2285,30.0,,,1,1,soil Multiplr: 1.00
MS Integration Params: lscint.p

Method : C:\msdchem\2\METHODS\8270da.m (RTE Integrator)
Title : SW846 8270D OR EPA 625
Last Update : Mon Mar 30 16:32:14 2015
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Drift	Area%	Dev(min)	R.T.
1	I	1,4-Dichlorobenzene-d4	40.000	40.000	0.0	107	0.00	4.73
2		1,4-Dioxane	50.000	60.499	-21.0#	130	0.09	2.38
3		N-nitrosodimethylamine	50.000	52.034	-4.1	112	0.07	2.71
4		Pyridine		----------NA----------				
		----------	Amount	Calc.	%Drift		----------	
5	P	Benzaldehyde		----------NA----------				
		----------	Amount	Calc.	%Drift		----------	
6		Aniline		----------NA----------				
7	S	2-Fluorophenol		----------NA----------				
8	P	bis(2-Chloroethyl)ether	50.000	50.722	-1.4	109	0.00	4.56
9	S	Phenol-d5		----------NA----------				
10	P	Phenol	50.000	55.446	-10.9	120	0.02	4.55
11	P	2-Chlorophenol	50.000	53.198	-6.4	115	0.01	4.62
12		1,3-Dichlorobenzene	50.000	49.090	1.8	105	0.00	4.70
13		1,4-Dichlorobenzene	50.000	50.174	-0.3	107	0.00	4.75
14		1,2-Dichlorobenzene	50.000	48.990	2.0	106	0.00	4.89
15		Benzyl alcohol		----------NA----------				
16	P	bis(2-chloroisopropyl)eth	50.000	51.539	-3.1	112	0.00	4.98
17	P	2-Methylphenol	50.000	50.663	-1.3	110	0.02	4.98
18	P	Acetophenone	50.000	57.402	-14.8	123	0.00	5.07
19	P	Hexachloroethane	50.000	49.703	0.6	107	0.00	5.14
20	P	N-Nitroso-di-n-propylamin	50.000	51.334	-2.7	111	0.00	5.10
21	P	3&4-Methylphenol	100.000	102.989	-3.0	112	0.02	5.11
22	I	Naphthalene-d8	40.000	40.000	0.0	108	0.00	5.83
23	S	Nitrobenzene-d5		----------NA----------				
24	P	Nitrobenzene	50.000	50.798	-1.6	111	0.00	5.21
25	P	Isophorone	50.000	48.051	3.9	105	0.00	5.41
26	P	2-Nitrophenol	50.000	53.900	-7.8	115	0.00	5.49
27	P	2,4-Dimethylphenol	50.000	52.642	-5.3	113	0.01	5.54
28	P	bis(2-Chloroethoxy)methan	50.000	49.020	2.0	107	0.00	5.62
29		Benzoic Acid	100.000	110.770	-10.8	116	0.08	5.73
30	P	2,4-Dichlorophenol	50.000	51.324	-2.6	111	0.01	5.72
31		1,2,4-Trichlorobenzene	50.000	48.098	3.8	106	0.00	5.79
32		alpha-Terpineol		----------NA----------				
33	P	Naphthalene	50.000	51.130	-2.3	111	0.00	5.85
34	P	4-Chloroaniline		----------NA----------				
35		2,6-Dichlorophenol	50.000	49.226	1.5	107	0.00	5.94
36	P	Hexachlorobutadiene	50.000	52.298	-4.6	114	0.00	6.04
37	P	Caprolactam	50.000	48.905	2.2	105	0.03	6.31

Initial Calibration Verification

Job Number: FA23189 **Sample:** SU2285-ICV2285
Account: FPMRNYR FPM Remediations **Lab FileID:** U049905.D
Project: HM-AZ PBR Holloman AFB; Alamogordo, NM

38	P	4-Chloro-3-methylphenol	50.000	51.737	-3.5	112	0.02	6.50
39	P	2-Methylnaphthalene		----------NA----------				
40		1-Methylnaphthalene		----------NA----------				
41	P	1,2,4,5-Tetrachlorobenzen	50.000	47.810	4.4	104	0.00	6.87
42	I	Acenaphthene-d10	40.000	40.000	0.0	107	0.00	8.06
43	P	Hexachlorocyclopentadiene	50.000	45.064	9.9	92	0.00	6.90
44	P	2,4,6-Trichlorophenol	50.000	53.545	-7.1	114	0.00	7.02
45	P	2,4,5-Trichlorophenol	50.000	51.863	-3.7	110	0.01	7.08
46	S	2-Fluorobiphenyl		----------NA----------				
47	P	1,1'-Biphenyl	50.000	47.827	4.3	104	0.00	7.23
48	P	2-Chloronaphthalene	50.000	49.828	0.3	108	0.00	7.23
49	P	2-Nitroaniline		----------NA----------				
50		p-Dinitrobenzene		----------NA----------				
51	P	Acenaphthylene	50.000	51.517	-3.0	111	0.00	7.82
52	P	Dimethylphthalate	50.000	50.470	-0.9	108	0.00	7.75
53		m-Dinitrobenzene		----------NA----------				
54	P	2,6-Dinitrotoluene	50.000	49.822	0.4	108	0.00	7.85
55		o-Dinitrobenzene		----------NA----------				
56	P	Acenaphthene	50.000	51.776	-3.6	112	0.00	8.10
57	P	3-Nitroaniline		----------NA----------				
		----------	Amount	Calc.	%Drift	----------		
58	P	2,4-Dinitrophenol	100.000	110.113	-10.1	132	0.02	8.21
		----------	Amount	Calc.	%Drift	----------		
59	P	Dibenzofuran		----------NA----------				
60	P	2,4-Dinitrotoluene	50.000	49.080	1.8	104	0.00	8.45
61	P	4-Nitrophenol	100.000	107.924	-7.9	113	0.05	8.42
62		2,3,5,6-Tetrachlorophenol		----------NA----------				
63	P	2,3,4,6-Tetrachlorophenol	50.000	48.181	3.6	101	0.01	8.64
64	P	Fluorene	50.000	50.727	-1.5	110	0.00	8.91
65	P	4-Chlorophenyl-phenylethe	50.000	49.326	1.3	106	0.00	8.94
66	P	Diethylphthalate	50.000	50.006	-0.0	106	0.01	8.89
67	P	4-Nitroaniline		----------NA----------				
68	I	Phenanthrene-d10	40.000	40.000	0.0	107	0.00	10.49
69	P	4,6-Dinitro-2-methylpheno	100.000	110.779	-10.8	110	0.01	9.12
70	P	n-Nitrosodiphenylamine	50.000	49.545	0.9	88	0.00	9.16
71		Diphenylamine	50.000	41.287	17.4	88	0.00	9.16
72		1,2-Diphenylhydrazine	50.000	48.354	3.3	106	0.00	9.20
73	S	2,4,6-Tribromophenol		----------NA----------				
74	P	4-Bromophenyl-phenylether	50.000	43.880	12.2	92	0.00	9.75
75	P	Hexachlorobenzene	50.000	42.582	14.8	91	0.00	9.97
76		Simazine		----------NA----------				
77	P	Atrazine	50.000	45.494	9.0	96	0.02	10.21
		----------	Amount	Calc.	%Drift	----------		
78	P	Pentachlorophenol	100.000	113.573	-13.6	126	0.02	10.32
		----------	Amount	Calc.	%Drift	----------		
79	P	Phenanthrene	50.000	50.814	-1.6	109	0.01	10.53
80	P	Anthracene	50.000	50.846	-1.7	109	0.01	10.61
81	P	Carbazole		----------NA----------				
82	P	Di-n-butylphthalate	50.000	50.427	-0.9	107	0.00	11.81
83	P	Fluoranthene	50.000	49.862	0.3	106	0.01	12.69
84	I	Chrysene-d12	40.000	40.000	0.0	105	0.00	15.40
85		Benzidine		----------NA----------				
86	P	Pyrene	50.000	51.364	-2.7	107	0.00	13.09

Initial Calibration Verification

Job Number: FA23189 **Sample:** SU2285-ICV2285
Account: FPMRNYR FPM Remediations **Lab FileID:** U049905.D
Project: HM-AZ PBR Holloman AFB; Alamogordo, NM

87	S	Terphenyl-d14		----------NA----------				
88	P	Butylbenzylphthalate	50.000	52.675	-5.3	107	0.00	14.60
89	P	3,3'-Dichlorobenzidine		----------NA----------				
90	P	Benzo[a]anthracene	50.000	51.634	-3.3	107	0.00	15.37
91	P	Chrysene	50.000	52.247	-4.5	109	0.00	15.45
92	P	bis(2-Ethylhexyl)phthalat	50.000	51.896	-3.8	106	0.00	15.81
93	I	Perylene-d12	40.000	40.000	0.0	101	0.00	17.90
94	P	Di-n-octylphthalate	50.000	54.093	-8.2	105	0.00	16.93
95	P	Benzo[b]fluoranthene	50.000	49.813	0.4	99	0.00	17.29
96	P	Benzo[k]fluoranthene	50.000	53.413	-6.8	105	0.00	17.34
97	P	Benzo[a]pyrene	50.000	50.070	-0.1	99	0.00	17.81
98	P	Indeno[1,2,3-cd]pyrene	50.000	46.858	6.3	92	0.00	19.49
99	P	Dibenz[a,h]anthracene	50.000	52.643	-5.3	101	0.00	19.54
100	P	Benzo[g,h,i]perylene	50.000	50.656	-1.3	101	0.00	19.84

(#) = Out of Range SPCC's out = 0 CCC's out = 0
U049901.D 8270da.m Tue Mar 31 08:40:43 2015

6.7.6

6

Initial Calibration Verification

Job Number: FA23189
Account: FPMRNYR FPM Remediations
Project: HM-AZ PBR Holloman AFB; Alamogordo, NM

Sample: SU2285-ICV2285
Lab FileID: U049906.D

Evaluate Continuing Calibration Report

```
Data File : C:\msdchem\2\DATA\SU2285\U049906.D          Vial: 10
Acq On    : 30 Mar 2015   5:01 pm                   Operator: nareshj
Sample    : icv2285-50                              Inst    : MSBNA04
Misc      : op55483,su2285,30.0,,,1,1,soil          Multiplr: 1.00
MS Integration Params: lscint.p

Method       : C:\msdchem\2\METHODS\8270da.m (RTE Integrator)
Title        : SW846 8270D OR EPA 625
Last Update  : Mon Mar 30 16:32:14 2015
Response via : Multiple Level Calibration

Min. RRF     :   0.000  Min. Rel. Area :  50%  Max. R.T. Dev  0.50min
Max. RRF Dev :  20%     Max. Rel. Area : 200%
```

		Compound	Amount	Calc.	%Drift	Area%	Dev(min)	R.T.
1	I	1,4-Dichlorobenzene-d4	40.000	40.000	0.0	98	0.00	4.72
2		1,4-Dioxane		----------NA----------				
3		N-nitrosodimethylamine		----------NA----------				
4		Pyridine	50.000	44.196	11.6	86	0.01	2.65
		----------	Amount	Calc.	%Drift	----------		
5	P	Benzaldehyde	50.000	45.798	8.4	88	0.00	4.40
		----------	Amount	Calc.	%Drift	----------		
6		Aniline	50.000	45.125	9.8	89	0.00	4.52
7	S	2-Fluorophenol		----------NA----------				
8	P	bis(2-Chloroethyl)ether		----------NA----------				
9	S	Phenol-d5		----------NA----------				
10	P	Phenol		----------NA----------				
11	P	2-Chlorophenol		----------NA----------				
12		1,3-Dichlorobenzene		----------NA----------				
13		1,4-Dichlorobenzene		----------NA----------				
14		1,2-Dichlorobenzene		----------NA----------				
15		Benzyl alcohol	50.000	44.139	11.7	86	0.00	4.86
16	P	bis(2-chloroisopropyl)eth		----------NA----------				
17	P	2-Methylphenol		----------NA----------				
18	P	Acetophenone		----------NA----------				
19	P	Hexachloroethane		----------NA----------				
20	P	N-Nitroso-di-n-propylamin		----------NA----------				
21	P	3&4-Methylphenol		----------NA----------				
22	I	Naphthalene-d8	40.000	40.000	0.0	107	0.00	5.82
23	S	Nitrobenzene-d5		----------NA----------				
24	P	Nitrobenzene		----------NA----------				
25	P	Isophorone		----------NA----------				
26	P	2-Nitrophenol		----------NA----------				
27	P	2,4-Dimethylphenol		----------NA----------				
28	P	bis(2-Chloroethoxy)methan		----------NA----------				
29		Benzoic Acid		----------NA----------				
30	P	2,4-Dichlorophenol		----------NA----------				
31		1,2,4-Trichlorobenzene		----------NA----------				
32		alpha-Terpineol		----------NA----------				
33	P	Naphthalene		----------NA----------				
34	P	4-Chloroaniline	50.000	41.799	16.4	90	0.00	5.92
35		2,6-Dichlorophenol		----------NA----------				
36	P	Hexachlorobutadiene		----------NA----------				
37	P	Caprolactam		----------NA----------				

Initial Calibration Verification

Job Number: FA23189 **Sample:** SU2285-ICV2285
Account: FPMRNYR FPM Remediations **Lab FileID:** U049906.D
Project: HM-AZ PBR Holloman AFB; Alamogordo, NM

38	P	4-Chloro-3-methylphenol		----------NA----------				
39	P	2-Methylnaphthalene	50.000	41.443	17.1	89	0.00	6.60
40		1-Methylnaphthalene		----------NA----------				
41	P	1,2,4,5-Tetrachlorobenzen		----------NA----------				
42	I	Acenaphthene-d10	40.000	40.000	0.0	94	0.00	8.05
43	P	Hexachlorocyclopentadiene		----------NA----------				
44	P	2,4,6-Trichlorophenol		----------NA----------				
45	P	2,4,5-Trichlorophenol		----------NA----------				
46	S	2-Fluorobiphenyl		----------NA----------				
47	P	1,1'-Biphenyl		----------NA----------				
48	P	2-Chloronaphthalene		----------NA----------				
49	P	2-Nitroaniline	50.000	48.433	3.1	91	0.00	7.43
50		p-Dinitrobenzene		----------NA----------				
51	P	Acenaphthylene		----------NA----------				
52	P	Dimethylphthalate		----------NA----------				
53		m-Dinitrobenzene	50.000	45.334	9.3	84	0.00	7.75
54	P	2,6-Dinitrotoluene		----------NA----------				
55		o-Dinitrobenzene		----------NA----------				
56	P	Acenaphthene		----------NA----------				
57	P	3-Nitroaniline	50.000	49.072	1.9	93	0.00	8.04
		----------	Amount	Calc.	%Drift	----------		
58	P	2,4-Dinitrophenol		----------NA----------				
		----------	Amount	Calc.	%Drift	----------		
59	P	Dibenzofuran	50.000	46.306	7.4	87	0.00	8.35
60	P	2,4-Dinitrotoluene		----------NA----------				
61	P	4-Nitrophenol		----------NA----------				
62		2,3,5,6-Tetrachlorophenol		----------NA----------				
63	P	2,3,4,6-Tetrachlorophenol		----------NA----------				
64	P	Fluorene		----------NA----------				
65	P	4-Chlorophenyl-phenylethe		----------NA----------				
66	P	Diethylphthalate		----------NA----------				
67	P	4-Nitroaniline	50.000	47.938	4.1	89	0.00	9.03
68	I	Phenanthrene-d10	40.000	40.000	0.0	93	0.00	10.47
69	P	4,6-Dinitro-2-methylpheno		----------NA----------				
70	P	n-Nitrosodiphenylamine		----------NA----------				
71		Diphenylamine		----------NA----------				
72		1,2-Diphenylhydrazine		----------NA----------				
73	S	2,4,6-Tribromophenol		----------NA----------				
74	P	4-Bromophenyl-phenylether		----------NA----------				
75	P	Hexachlorobenzene		----------NA----------				
76		Simazine		----------NA----------				
77	P	Atrazine		----------NA----------				
		----------	Amount	Calc.	%Drift	----------		
78	P	Pentachlorophenol		----------NA----------				
		----------	Amount	Calc.	%Drift	----------		
79	P	Phenanthrene		----------NA----------				
80	P	Anthracene		----------NA----------				
81	P	Carbazole	50.000	48.274	3.5	90	0.00	10.94
82	P	Di-n-butylphthalate		----------NA----------				
83	P	Fluoranthene		----------NA----------				
84	I	Chrysene-d12	40.000	40.000	0.0	100	-0.01	15.38
85		Benzidine	50.000	55.597	-11.2	102	0.00	13.03
86	P	Pyrene		----------NA----------				

Initial Calibration Verification

Job Number: FA23189 **Sample:** SU2285-ICV2285
Account: FPMRNYR FPM Remediations **Lab FileID:** U049906.D
Project: HM-AZ PBR Holloman AFB; Alamogordo, NM

87	S	Terphenyl-d14		----------NA----------				
88	P	Butylbenzylphthalate		----------NA----------				
89	P	3,3'-Dichlorobenzidine	50.000	50.200	-0.4	98	0.00	15.44
90	P	Benzo[a]anthracene		----------NA----------				
91	P	Chrysene		----------NA----------				
92	P	bis(2-Ethylhexyl)phthalat		----------NA----------				
93	I	Perylene-d12	40.000	40.000	0.0	99	0.00	17.89
94	P	Di-n-octylphthalate		----------NA----------				
95	P	Benzo[b]fluoranthene		----------NA----------				
96	P	Benzo[k]fluoranthene		----------NA----------				
97	P	Benzo[a]pyrene		----------NA----------				
98	P	Indeno[1,2,3-cd]pyrene		----------NA----------				
99	P	Dibenz[a,h]anthracene		----------NA----------				
100	P	Benzo[g,h,i]perylene		----------NA----------				

(#) = Out of Range SPCC's out = 0 CCC's out = 0
U049901.D 8270da.m Tue Mar 31 08:40:44 2015

6.7.7

6

Initial Calibration Verification

Job Number: FA23189
Account: FPMRNYR FPM Remediations
Project: HM-AZ PBR Holloman AFB; Alamogordo, NM

Sample: SU2285-ICV2285
Lab FileID: U049907.D

Evaluate Continuing Calibration Report

```
Data File : C:\msdchem\2\DATA\SU2285\U049907.D          Vial: 11
Acq On    : 30 Mar 2015   5:27 pm                   Operator: nareshj
Sample    : icv2285-50,1-methylnaphthalene          Inst    : MSBNA04
Misc      : op55483,su2285,30.0,,,1,1,soil          Multiplr: 1.00
MS Integration Params: lscint.p

Method       : C:\msdchem\2\METHODS\8270da.m (RTE Integrator)
Title        : SW846 8270D OR EPA 625
Last Update  : Mon Mar 30 16:32:14 2015
Response via : Multiple Level Calibration

Min. RRF     :   0.000  Min. Rel. Area :  50%  Max. R.T. Dev  0.50min
Max. RRF Dev :  20%     Max. Rel. Area : 200%
```

		Compound	Amount	Calc.	%Drift	Area%	Dev(min)	R.T.
1	I	1,4-Dichlorobenzene-d4	40.000	40.000	0.0	97	0.00	4.72
2		1,4-Dioxane		NA				
3		N-nitrosodimethylamine		NA				
4		Pyridine		NA				
			Amount	Calc.	%Drift			
5	P	Benzaldehyde		NA				
			Amount	Calc.	%Drift			
6		Aniline		NA				
7	S	2-Fluorophenol		NA				
8	P	bis(2-Chloroethyl)ether		NA				
9	S	Phenol-d5		NA				
10	P	Phenol		NA				
11	P	2-Chlorophenol		NA				
12		1,3-Dichlorobenzene		NA				
13		1,4-Dichlorobenzene		NA				
14		1,2-Dichlorobenzene		NA				
15		Benzyl alcohol		NA				
16	P	bis(2-chloroisopropyl)eth		NA				
17	P	2-Methylphenol		NA				
18	P	Acetophenone		NA				
19	P	Hexachloroethane		NA				
20	P	N-Nitroso-di-n-propylamin		NA				
21	P	3&4-Methylphenol		NA				
22	I	Naphthalene-d8	40.000	40.000	0.0	95	0.00	5.83
23	S	Nitrobenzene-d5		NA				
24	P	Nitrobenzene		NA				
25	P	Isophorone		NA				
26	P	2-Nitrophenol		NA				
27	P	2,4-Dimethylphenol		NA				
28	P	bis(2-Chloroethoxy)methan		NA				
29		Benzoic Acid		NA				
30	P	2,4-Dichlorophenol		NA				
31		1,2,4-Trichlorobenzene		NA				
32		alpha-Terpineol		NA				
33	P	Naphthalene		NA				
34	P	4-Chloroaniline		NA				
35		2,6-Dichlorophenol		NA				
36	P	Hexachlorobutadiene		NA				
37	P	Caprolactam		NA				

Initial Calibration Verification

Job Number: FA23189
Account: FPMRNYR FPM Remediations
Project: HM-AZ PBR Holloman AFB; Alamogordo, NM

Sample: SU2285-ICV2285
Lab FileID: U049907.D

38	P	4-Chloro-3-methylphenol		----------NA----------				
39	P	2-Methylnaphthalene		----------NA----------				
40		1-Methylnaphthalene	50.000	53.967	-7.9	104	0.00	6.74
41	P	1,2,4,5-Tetrachlorobenzen		----------NA----------				
42	I	Acenaphthene-d10	40.000	40.000	0.0	92	0.00	8.05
43	P	Hexachlorocyclopentadiene		----------NA----------				
44	P	2,4,6-Trichlorophenol		----------NA----------				
45	P	2,4,5-Trichlorophenol		----------NA----------				
46	S	2-Fluorobiphenyl		----------NA----------				
47	P	1,1'-Biphenyl		----------NA----------				
48	P	2-Chloronaphthalene		----------NA----------				
49	P	2-Nitroaniline		----------NA----------				
50		p-Dinitrobenzene		----------NA----------				
51	P	Acenaphthylene		----------NA----------				
52	P	Dimethylphthalate		----------NA----------				
53		m-Dinitrobenzene		----------NA----------				
54	P	2,6-Dinitrotoluene		----------NA----------				
55		o-Dinitrobenzene		----------NA----------				
56	P	Acenaphthene		----------NA----------				
57	P	3-Nitroaniline		----------NA----------				
		----------	Amount	Calc.	%Drift	----------		
58	P	2,4-Dinitrophenol		----------NA----------				
		----------	Amount	Calc.	%Drift	----------		
59	P	Dibenzofuran		----------NA----------				
60	P	2,4-Dinitrotoluene		----------NA----------				
61	P	4-Nitrophenol		----------NA----------				
62		2,3,5,6-Tetrachlorophenol		----------NA----------				
63	P	2,3,4,6-Tetrachlorophenol		----------NA----------				
64	P	Fluorene		----------NA----------				
65	P	4-Chlorophenyl-phenylethe		----------NA----------				
66	P	Diethylphthalate		----------NA----------				
67	P	4-Nitroaniline		----------NA----------				
68	I	Phenanthrene-d10	40.000	40.000	0.0	91	0.00	10.48
69	P	4,6-Dinitro-2-methylpheno		----------NA----------				
70	P	n-Nitrosodiphenylamine		----------NA----------				
71		Diphenylamine		----------NA----------				
72		1,2-Diphenylhydrazine		----------NA----------				
73	S	2,4,6-Tribromophenol		----------NA----------				
74	P	4-Bromophenyl-phenylether		----------NA----------				
75	P	Hexachlorobenzene		----------NA----------				
76		Simazine		----------NA----------				
77	P	Atrazine		----------NA----------				
		----------	Amount	Calc.	%Drift	----------		
78	P	Pentachlorophenol		----------NA----------				
		----------	Amount	Calc.	%Drift	----------		
79	P	Phenanthrene		----------NA----------				
80	P	Anthracene		----------NA----------				
81	P	Carbazole		----------NA----------				
82	P	Di-n-butylphthalate		----------NA----------				
83	P	Fluoranthene		----------NA----------				
84	I	Chrysene-d12	40.000	40.000	0.0	98	0.00	15.38
85		Benzidine		----------NA----------				
86	P	Pyrene		----------NA----------				

Initial Calibration Verification

Job Number: FA23189
Account: FPMRNYR FPM Remediations
Project: HM-AZ PBR Holloman AFB; Alamogordo, NM

Sample: SU2285-ICV2285
Lab FileID: U049907.D

```
 87 S   Terphenyl-d14                        ----------NA----------
 88 P   Butylbenzylphthalate                 ----------NA----------
 89 P   3,3'-Dichlorobenzidine               ----------NA----------
 90 P   Benzo[a]anthracene                   ----------NA----------
 91 P   Chrysene                             ----------NA----------
 92 P   bis(2-Ethylhexyl)phthalat            ----------NA----------

 93 I   Perylene-d12                40.000  40.000      0.0   97   0.00   17.89
 94 P   Di-n-octylphthalate                  ----------NA----------
 95 P   Benzo[b]fluoranthene                 ----------NA----------
 96 P   Benzo[k]fluoranthene                 ----------NA----------
 97 P   Benzo[a]pyrene                       ----------NA----------
 98 P   Indeno[1,2,3-cd]pyrene               ----------NA----------
 99 P   Dibenz[a,h]anthracene                ----------NA----------
100 P   Benzo[g,h,i]perylene                 ----------NA----------
 ---------------------------------------------------------------------------
 ---------------------------------------------------------------------------

    (#) = Out of Range                SPCC's out = 0  CCC's out = 0
     U049901.D  8270da.m         Tue Mar 31 08:40:45 2015
```

6.7.8

6

Continuing Calibration Summary

Job Number: FA23189
Account: FPMRNYR FPM Remediations
Project: HM-AZ PBR Holloman AFB; Alamogordo, NM
Sample: SU2287-CC2285
Lab FileID: U049953.D

Evaluate Continuing Calibration Report

```
Data File : C:\msdchem\2\DATA\SU2287\U049953.D          Vial: 2
Acq On    :  1 Apr 2015   9:59 am                   Operator: nareshj
Sample    : cc2285-50                               Inst    : MSBNA04
Misc      : op55483,su2287,30.0,,,1,1,soil          Multiplr: 1.00
MS Integration Params: lscint.p

Method       : C:\msdchem\2\METHODS\8270da2.m (RTE Integrator)
Title        : SW846 8270D OR EPA 625
Last Update  : Tue Mar 31 14:48:34 2015
Response via : Multiple Level Calibration

Min. RRF     :   0.000  Min. Rel. Area :  50%  Max. R.T. Dev  0.50min
Max. RRF Dev :  20%     Max. Rel. Area : 200%
```

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	108	0.00	4.71
2		1,4-Dioxane	0.567	0.676	-19.2	129	0.01	2.30
3		N-nitrosodimethylamine	0.575	0.660	-14.8	124	0.01	2.65
4		Pyridine	1.498	1.741	-16.2	124	0.01	2.64
		----------	Amount	Calc.	%Drift		----------	
5	P	Benzaldehyde	50.000	57.054	-14.1	112	0.00	4.40
		----------	AvgRF	CCRF	%Dev		----------	
6		Aniline	2.230	2.434	-9.1	118	0.00	4.51
7	S	2-Fluorophenol	1.350	1.553	-15.0	123	0.00	3.81
8	P	bis(2-Chloroethyl)ether	1.375	1.520	-10.5	119	0.00	4.55
9	S	Phenol-d5	1.468	1.597	-8.8	118	0.00	4.52
10	P	Phenol	1.775	1.934	-9.0	118	0.00	4.53
11	P	2-Chlorophenol	1.507	1.663	-10.4	119	0.00	4.60
12		1,3-Dichlorobenzene	1.612	1.785	-10.7	119	0.00	4.69
13		1,4-Dichlorobenzene	1.628	1.801	-10.6	119	0.00	4.73
14		1,2-Dichlorobenzene	1.554	1.714	-10.3	120	0.00	4.87
15		Benzyl alcohol	0.998	1.071	-7.3	115	0.00	4.85
16	P	bis(2-chloroisopropyl)eth	1.717	1.810	-5.4	114	0.00	4.96
17	P	2-Methylphenol	1.336	1.435	-7.4	117	0.01	4.97
18	P	Acetophenone	1.971	1.947	1.2	106	0.00	5.05
19	P	Hexachloroethane	0.605	0.678	-12.1	121	0.00	5.12
20	P	N-Nitroso-di-n-propylamin	0.937	0.980	-4.6	114	0.00	5.08
21	P	3&4-Methylphenol	1.415	1.489	-5.2	115	0.00	5.08
22	I	Naphthalene-d8	1.000	1.000	0.0	104	0.00	5.81
23	S	Nitrobenzene-d5	0.390	0.436	-11.8	118	0.00	5.18
24	P	Nitrobenzene	0.386	0.431	-11.7	118	0.00	5.19
25	P	Isophorone	0.717	0.761	-6.1	112	0.00	5.40
26	P	2-Nitrophenol	0.217	0.242	-11.5	115	0.00	5.47
27	P	2,4-Dimethylphenol	0.368	0.403	-9.5	114	0.00	5.52
28	P	bis(2-Chloroethoxy)methan	0.424	0.451	-6.4	112	0.00	5.60
29		Benzoic Acid	0.299	0.288	3.7	97	0.02	5.66
30	P	2,4-Dichlorophenol	0.315	0.342	-8.6	113	0.00	5.70
31		1,2,4-Trichlorobenzene	0.339	0.373	-10.0	117	0.00	5.77
32		alpha-Terpineol		----------NA----------				
33	P	Naphthalene	1.108	1.205	-8.8	114	0.00	5.83
34	P	4-Chloroaniline	0.492	0.534	-8.5	114	0.00	5.92
35		2,6-Dichlorophenol	0.317	0.344	-8.5	114	0.00	5.93
36	P	Hexachlorobutadiene	0.183	0.199	-8.7	114	0.00	6.02
37	P	Caprolactam	0.129	0.127	1.6	103	0.01	6.28

Continuing Calibration Summary

Job Number: FA23189 **Sample:** SU2287-CC2285
Account: FPMRNYR FPM Remediations **Lab FileID:** U049953.D
Project: HM-AZ PBR Holloman AFB; Alamogordo, NM

38	P	4-Chloro-3-methylphenol	0.318	0.343	-7.9	113	0.00	6.47
39	P	2-Methylnaphthalene	0.752	0.802	-6.6	112	0.00	6.59
40		1-Methylnaphthalene	0.663	0.709	-6.9	113	0.00	6.72
41	P	1,2,4,5-Tetrachlorobenzen	0.340	0.365	-7.4	112	0.00	6.85
42	I	Acenaphthene-d10	1.000	1.000	0.0	99	0.00	8.03
43	P	Hexachlorocyclopentadiene	0.382	0.445	-16.5	110	0.00	6.88
44	P	2,4,6-Trichlorophenol	0.396	0.444	-12.1	111	0.00	6.99
45	P	2,4,5-Trichlorophenol	0.419	0.467	-11.5	110	0.00	7.05
46	S	2-Fluorobiphenyl	1.401	1.565	-11.7	111	0.00	7.09
47	P	1,1'-Biphenyl	1.569	1.623	-3.4	104	0.00	7.20
48	P	2-Chloronaphthalene	1.176	1.313	-11.6	112	0.00	7.21
49	P	2-Nitroaniline	0.353	0.397	-12.5	111	0.00	7.41
50		p-Dinitrobenzene	0.252	0.283	-12.3	110	0.00	7.57
51	P	Acenaphthylene	1.956	2.164	-10.6	110	0.00	7.80
52	P	Dimethylphthalate	1.341	1.447	-7.9	108	0.00	7.74
53		m-Dinitrobenzene	0.241	0.274	-13.7	110	0.00	7.74
54	P	2,6-Dinitrotoluene	0.328	0.358	-9.1	109	0.00	7.82
55		o-Dinitrobenzene	0.170	0.187	-10.0	108	0.00	7.92
56	P	Acenaphthene	1.198	1.322	-10.4	111	0.00	8.08
57	P	3-Nitroaniline	0.364	0.408	-12.1	111	0.00	8.03
		----------	Amount	Calc.	%Drift	----------		
58	P	2,4-Dinitrophenol	50.000	52.432	-4.9	103	0.00	8.18
		----------	AvgRF	CCRF	%Dev	----------		
59	P	Dibenzofuran	1.703	1.880	-10.4	109	0.00	8.33
60	P	2,4-Dinitrotoluene	0.437	0.477	-9.2	107	0.00	8.42
61	P	4-Nitrophenol	0.157	0.175	-11.5	108	0.02	8.38
62		2,3,5,6-Tetrachlorophenol	0.342	0.377	-10.2	106	0.00	8.54
63	P	2,3,4,6-Tetrachlorophenol	0.337	0.375	-11.3	109	0.00	8.62
64	P	Fluorene	1.358	1.481	-9.1	109	0.00	8.88
65	P	4-Chlorophenyl-phenylethe	0.652	0.701	-7.5	107	0.00	8.91
66	P	Diethylphthalate	1.277	1.379	-8.0	106	0.00	8.86
67	P	4-Nitroaniline	0.368	0.411	-11.7	109	0.01	9.02
68	I	Phenanthrene-d10	1.000	1.000	0.0	97	0.00	10.46
69	P	4,6-Dinitro-2-methylpheno	0.159	0.183	-15.1	104	0.00	9.08
70	P	n-Nitrosodiphenylamine	0.593	0.647	-9.1	106	0.00	9.13
71		Diphenylamine	0.711	0.776	-9.1	106	0.00	9.13
72		1,2-Diphenylhydrazine	0.813	0.870	-7.0	107	0.00	9.17
73	S	2,4,6-Tribromophenol	0.118	0.130	-10.2	104	0.00	9.32
74	P	4-Bromophenyl-phenylether	0.221	0.241	-9.0	104	0.00	9.72
75	P	Hexachlorobenzene	0.247	0.271	-9.7	106	0.00	9.94
76		Simazine	0.124	0.129	-4.0	102	0.01	10.10
77	P	Atrazine	0.226	0.228	-0.9	97	0.00	10.18
		----------	Amount	Calc.	%Drift	----------		
78	P	Pentachlorophenol	50.000	54.181	-8.4	103	0.00	10.28
		----------	AvgRF	CCRF	%Dev	----------		
79	P	Phenanthrene	1.149	1.275	-11.0	108	0.00	10.50
80	P	Anthracene	1.152	1.268	-10.1	107	0.00	10.58
81	P	Carbazole	1.085	1.208	-11.3	108	0.00	10.92
82	P	Di-n-butylphthalate	1.266	1.355	-7.0	104	0.00	11.78
83	P	Fluoranthene	1.162	1.273	-9.6	106	0.00	12.66
84	I	Chrysene-d12	1.000	1.000	0.0	96	0.00	15.36
85		Benzidine	0.709	0.846	-19.3	105	0.00	13.01
86	P	Pyrene	1.273	1.419	-11.5	107	-0.01	13.06

Continuing Calibration Summary

Job Number: FA23189 **Sample:** SU2287-CC2285
Account: FPMRNYR FPM Remediations **Lab FileID:** U049953.D
Project: HM-AZ PBR Holloman AFB; Alamogordo, NM

87	S	Terphenyl-d14	0.868	0.956	-10.1	105	0.00	13.49
88	P	Butylbenzylphthalate	0.565	0.612	-8.3	101	0.00	14.57
89	P	3,3'-Dichlorobenzidine	0.419	0.481	-14.8	108	0.00	15.41
90	P	Benzo[a]anthracene	1.125	1.251	-11.2	106	0.00	15.33
91	P	Chrysene	1.052	1.171	-11.3	107	0.00	15.41
92	P	bis(2-Ethylhexyl)phthalat	0.769	0.819	-6.5	100	0.00	15.78
93	I	Perylene-d12	1.000	1.000	0.0	95	0.00	17.87
94	P	Di-n-octylphthalate	1.419	1.540	-8.5	99	0.00	16.90
95	P	Benzo[b]fluoranthene	1.198	1.317	-9.9	103	0.00	17.26
96	P	Benzo[k]fluoranthene	1.137	1.285	-13.0	105	0.00	17.30
97	P	Benzo[a]pyrene	1.155	1.291	-11.8	104	0.00	17.77
98	P	Indeno[1,2,3-cd]pyrene	1.074	1.167	-8.7	100	0.00	19.46
99	P	Dibenz[a,h]anthracene	1.060	1.196	-12.8	102	0.00	19.50
100	P	Benzo[g,h,i]perylene	1.119	1.201	-7.3	101	0.00	19.80

(#) = Out of Range SPCC's out = 0 CCC's out = 0
U049901.D 8270da2.m Wed Apr 01 15:40:36 2015

6.7.9

6

Continuing Calibration Summary

Job Number: FA23189 **Sample:** SU2287-ECC2285
Account: FPMRNYR FPM Remediations **Lab FileID:** U049980.D
Project: HM-AZ PBR Holloman AFB; Alamogordo, NM

Evaluate Continuing Calibration Report

```
Data File : C:\msdchem\2\DATA\SU2287\U049980.D          Vial: 29
Acq On    :  1 Apr 2015  10:09 pm                   Operator: nareshj
Sample    : ecc2285-50                              Inst    : MSBNA04
Misc      : op55483,su2287,30.0,,,1,1,soil          Multiplr: 1.00
MS Integration Params: lscint.p

Method       : C:\msdchem\2\METHODS\8270da2.m (RTE Integrator)
Title        : SW846 8270D OR EPA 625
Last Update  : Tue Mar 31 14:48:34 2015
Response via : Multiple Level Calibration

Min. RRF     :   0.000  Min. Rel. Area :  50%  Max. R.T. Dev  0.50min
Max. RRF Dev :  50%     Max. Rel. Area : 200%
```

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	65	0.00	4.71
2		1,4-Dioxane	0.567	0.631	-11.3	73	0.00	2.29
3		N-nitrosodimethylamine	0.575	0.666	-15.8	76	0.00	2.63
4		Pyridine	1.498	1.650	-10.1	71	0.00	2.62
		----------	Amount	Calc.	%Drift		----------	
5	P	Benzaldehyde	50.000	40.812	18.4	54	0.00	4.39
		----------	AvgRF	CCRF	%Dev		----------	
6		Aniline	2.230	2.448	-9.8	72	0.00	4.50
7	S	2-Fluorophenol	1.350	1.491	-10.4	72	0.00	3.81
8	P	bis(2-Chloroethyl)ether	1.375	1.466	-6.6	70	0.00	4.54
9	S	Phenol-d5	1.468	1.586	-8.0	71	0.00	4.51
10	P	Phenol	1.775	1.948	-9.7	72	0.00	4.52
11	P	2-Chlorophenol	1.507	1.640	-8.8	72	0.00	4.59
12		1,3-Dichlorobenzene	1.612	1.776	-10.2	72	0.00	4.68
13		1,4-Dichlorobenzene	1.628	1.794	-10.2	72	0.00	4.72
14		1,2-Dichlorobenzene	1.554	1.700	-9.4	72	0.00	4.87
15		Benzyl alcohol	0.998	1.080	-8.2	70	0.00	4.84
16	P	bis(2-chloroisopropyl)eth	1.717	1.828	-6.5	70	0.00	4.96
17	P	2-Methylphenol	1.336	1.426	-6.7	70	0.00	4.96
18	P	Acetophenone	1.971	2.037	-3.3	67	0.00	5.05
19	P	Hexachloroethane	0.605	0.675	-11.6	73	0.00	5.12
20	P	N-Nitroso-di-n-propylamin	0.937	1.025	-9.4	72	0.00	5.07
21	P	3&4-Methylphenol	1.415	1.490	-5.3	70	0.00	5.08
22	I	Naphthalene-d8	1.000	1.000	0.0	64	0.00	5.81
23	S	Nitrobenzene-d5	0.390	0.448	-14.9	74	0.00	5.17
24	P	Nitrobenzene	0.386	0.439	-13.7	73	0.00	5.19
25	P	Isophorone	0.717	0.789	-10.0	71	0.00	5.39
26	P	2-Nitrophenol	0.217	0.238	-9.7	69	0.00	5.47
27	P	2,4-Dimethylphenol	0.368	0.410	-11.4	71	0.00	5.52
28	P	bis(2-Chloroethoxy)methan	0.424	0.459	-8.3	70	0.00	5.59
29		Benzoic Acid	0.299	0.299	0.0	62	0.00	5.65
30	P	2,4-Dichlorophenol	0.315	0.343	-8.9	69	0.00	5.70
31		1,2,4-Trichlorobenzene	0.339	0.367	-8.3	70	0.00	5.77
32		alpha-Terpineol		----------NA----------				
33	P	Naphthalene	1.108	1.229	-10.9	71	0.00	5.83
34	P	4-Chloroaniline	0.492	0.546	-11.0	71	0.00	5.91
35		2,6-Dichlorophenol	0.317	0.347	-9.5	70	0.00	5.92
36	P	Hexachlorobutadiene	0.183	0.203	-10.9	71	0.00	6.02
37	P	Caprolactam	0.129	0.128	0.8	63	0.00	6.26

Continuing Calibration Summary

Job Number: FA23189 **Sample:** SU2287-ECC2285
Account: FPMRNYR FPM Remediations **Lab FileID:** U049980.D
Project: HM-AZ PBR Holloman AFB; Alamogordo, NM

38	P	4-Chloro-3-methylphenol	0.318	0.356	-11.9	72	0.00	6.46
39	P	2-Methylnaphthalene	0.752	0.826	-9.8	70	0.00	6.58
40		1-Methylnaphthalene	0.663	0.719	-8.4	70	0.00	6.72
41	P	1,2,4,5-Tetrachlorobenzen	0.340	0.369	-8.5	69	0.00	6.85
42	I	Acenaphthene-d10	1.000	1.000	0.0	63	-0.01	8.03
43	P	Hexachlorocyclopentadiene	0.382	0.404	-5.8	63	-0.01	6.87
44	P	2,4,6-Trichlorophenol	0.396	0.433	-9.3	69	0.00	6.99
45	P	2,4,5-Trichlorophenol	0.419	0.454	-8.4	68	0.00	7.04
46	S	2-Fluorobiphenyl	1.401	1.551	-10.7	70	-0.01	7.08
47	P	1,1'-Biphenyl	1.569	1.604	-2.2	65	-0.01	7.20
48	P	2-Chloronaphthalene	1.176	1.288	-9.5	70	-0.01	7.20
49	P	2-Nitroaniline	0.353	0.404	-14.4	72	0.00	7.40
50		p-Dinitrobenzene	0.252	0.287	-13.9	71	-0.01	7.56
51	P	Acenaphthylene	1.956	2.167	-10.8	70	-0.01	7.79
52	P	Dimethylphthalate	1.341	1.479	-10.3	70	0.00	7.73
53		m-Dinitrobenzene	0.241	0.265	-10.0	68	-0.01	7.73
54	P	2,6-Dinitrotoluene	0.328	0.355	-8.2	69	-0.01	7.81
55		o-Dinitrobenzene	0.170	0.202	-18.8	74	-0.01	7.91
56	P	Acenaphthene	1.198	1.332	-11.2	71	-0.02	8.07
57	P	3-Nitroaniline	0.364	0.409	-12.4	71	0.00	8.02
		----------	Amount	Calc.	%Drift	----------		
58	P	2,4-Dinitrophenol	50.000	43.579	12.8	53	0.00	8.17
		----------	AvgRF	CCRF	%Dev	----------		
59	P	Dibenzofuran	1.703	1.883	-10.6	69	-0.01	8.32
60	P	2,4-Dinitrotoluene	0.437	0.485	-11.0	69	-0.01	8.41
61	P	4-Nitrophenol	0.157	0.187	-19.1	74	0.00	8.37
62		2,3,5,6-Tetrachlorophenol	0.342	0.376	-9.9	67	0.00	8.54
63	P	2,3,4,6-Tetrachlorophenol	0.337	0.371	-10.1	68	0.00	8.61
64	P	Fluorene	1.358	1.512	-11.3	71	-0.01	8.87
65	P	4-Chlorophenyl-phenylethe	0.652	0.713	-9.4	69	-0.01	8.90
66	P	Diethylphthalate	1.277	1.421	-11.3	70	0.00	8.85
67	P	4-Nitroaniline	0.368	0.416	-13.0	70	0.00	9.01
68	I	Phenanthrene-d10	1.000	1.000	0.0	64	-0.02	10.45
69	P	4,6-Dinitro-2-methylpheno	0.159	0.161	-1.3	60	-0.01	9.07
70	P	n-Nitrosodiphenylamine	0.593	0.637	-7.4	69	-0.02	9.12
71		Diphenylamine	0.711	0.764	-7.5	69	-0.02	9.12
72		1,2-Diphenylhydrazine	0.813	0.876	-7.7	71	-0.02	9.16
73	S	2,4,6-Tribromophenol	0.118	0.125	-5.9	66	-0.02	9.31
74	P	4-Bromophenyl-phenylether	0.221	0.234	-5.9	67	-0.02	9.72
75	P	Hexachlorobenzene	0.247	0.261	-5.7	68	-0.02	9.93
76		Simazine	0.124	0.130	-4.8	68	0.00	10.08
77	P	Atrazine	0.226	0.224	0.9	63	0.00	10.16
		----------	Amount	Calc.	%Drift	----------		
78	P	Pentachlorophenol	50.000	50.643	-1.3	63	0.00	10.28
		----------	AvgRF	CCRF	%Dev	----------		
79	P	Phenanthrene	1.149	1.273	-10.8	71	-0.01	10.49
80	P	Anthracene	1.152	1.270	-10.2	71	-0.01	10.57
81	P	Carbazole	1.085	1.217	-12.2	72	0.00	10.91
82	P	Di-n-butylphthalate	1.266	1.392	-10.0	70	0.00	11.78
83	P	Fluoranthene	1.162	1.299	-11.8	71	-0.01	12.65
84	I	Chrysene-d12	1.000	1.000	0.0	66	-0.02	15.36
85		Benzidine	0.709	0.714	-0.7	60	-0.02	13.00
86	P	Pyrene	1.273	1.415	-11.2	73	-0.02	13.05

Continuing Calibration Summary

Job Number: FA23189 **Sample:** SU2287-ECC2285
Account: FPMRNYR FPM Remediations **Lab FileID:** U049980.D
Project: HM-AZ PBR Holloman AFB; Alamogordo, NM

87	S	Terphenyl-d14	0.868	0.942	-8.5	71	-0.01	13.48
88	P	Butylbenzylphthalate	0.565	0.632	-11.9	71	-0.01	14.56
89	P	3,3'-Dichlorobenzidine	0.419	0.452	-7.9	69	0.00	15.40
90	P	Benzo[a]anthracene	1.125	1.248	-10.9	72	-0.01	15.33
91	P	Chrysene	1.052	1.177	-11.9	73	-0.02	15.40
92	P	bis(2-Ethylhexyl)phthalat	0.769	0.841	-9.4	70	0.00	15.78
93	I	Perylene-d12	1.000	1.000	0.0	65	-0.02	17.86
94	P	Di-n-octylphthalate	1.419	1.588	-11.9	70	0.00	16.89
95	P	Benzo[b]fluoranthene	1.198	1.327	-10.8	71	-0.02	17.25
96	P	Benzo[k]fluoranthene	1.137	1.300	-14.3	73	-0.02	17.30
97	P	Benzo[a]pyrene	1.155	1.285	-11.3	71	-0.02	17.76
98	P	Indeno[1,2,3-cd]pyrene	1.074	1.154	-7.4	68	-0.01	19.45
99	P	Dibenz[a,h]anthracene	1.060	1.136	-7.2	66	-0.01	19.49
100	P	Benzo[g,h,i]perylene	1.119	1.195	-6.8	68	-0.02	19.79

(#) = Out of Range SPCC's out = 0 CCC's out = 0
U049901.D 8270da2.m Thu Apr 02 08:59:21 2015

6.7.10

6

Initial Calibration Summary

Job Number: FA23189
Account: FPMRNYR FPM Remediations
Project: HM-AZ PBR Holloman AFB; Alamogordo, NM
Sample: SX1826-ICC1826
Lab FileID: X039252.D

Response Factor Report MSBNA05

Method : C:\msdchem\1\METHODS\8270d_0330.m (RTE Integrator)
Title : SW846 8270D OR EPA 625
Last Update : Tue Mar 31 09:29:41 2015
Response via : Initial Calibration

Calibration Files
5 =x039249.D 10 =x039250.D 25 =x039251.D 50 =x039252.D
60 =x039253.D 75 =x039254.D 100 =x039255.D

Compound	5	10	25	50	60	75	100	Avg	%RSD
1) I 1,4-Dichlorobenzene-d	----------ISTD----------								
2) 1,4-Dioxane	0.636	0.604	0.608	0.639		0.652	0.626	0.628	3.01
3) N-nitrosodimethyl	0.939	0.842	0.956	0.956		0.920	0.865	0.913	5.30
4) Pyridine	1.678	1.598	1.661	1.732		1.698	1.642	1.668	2.76
5)S 2-Fluorophenol	1.481	1.461	1.456	1.465		1.420	1.310	1.432	4.41
6)P Benzaldehyde	1.303	1.306	1.238	1.193		0.915	0.704	1.110	22.14
---- Quadratic regr., Force(0,0) ---- Coefficient = 0.9964									
Response Ratio = 0.00000 + 1.55674 *A + -0.33958 *A^2									
7) Aniline	2.253	2.191	2.127	2.144		2.046	1.942	2.117	5.20
8)P bis(2-Chloroethyl	1.420	1.392	1.378	1.381		1.368	1.308	1.375	2.72
9)S Phenol-d5	1.594	1.493	1.478	1.477		1.395	1.303	1.457	6.74
10)P Phenol	2.041	1.971	1.914	1.923		1.849	1.739	1.906	5.45
11)P 2-Chlorophenol	1.558	1.550	1.535	1.550		1.540	1.472	1.534	2.05
12) 1,3-Dichlorobenze	1.703	1.632	1.638	1.648		1.589	1.569	1.630	2.91
13) 1,4-Dichlorobenze	1.695	1.655	1.640	1.659		1.600	1.533	1.630	3.48
14) 1,2-Dichlorobenze	1.600	1.571	1.569	1.585		1.545	1.453	1.554	3.39
15) Benzyl alcohol	0.971	1.016	0.979	0.986		0.984	0.971	0.984	1.68
16)P 2-Methylphenol	1.380	1.376	1.333	1.376		1.324	1.227	1.336	4.39
17)P bis(2-chloroisopr	2.948	2.730	2.637	2.468		2.168	1.770	2.454	17.33
---- Quadratic regr., Force(0,0) ---- Coefficient = 0.9988									
Response Ratio = 0.00000 + 3.10878 *A + -0.52736 *A^2									
18)P Acetophenone	2.195	2.095	1.994	2.032		1.960	1.842	2.020	5.95
19)P N-Nitroso-di-n-pr	0.787	0.718	0.818	0.853		0.821	0.745	0.790	6.42
20)P 3&4-Methylphenol	1.462	1.418	1.406	1.432		1.373	1.319	1.402	3.59
21)P Hexachloroethane	0.677	0.669	0.669	0.681		0.669	0.641	0.668	2.12
22) I Naphthalene-d8	----------ISTD----------								
23)S Nitrobenzene-d5	0.452	0.440	0.421	0.420		0.411	0.398	0.424	4.66
24)P Nitrobenzene	0.443	0.423	0.396	0.397		0.382	0.366	0.401	6.95
25)P Isophorone	0.799	0.787	0.722	0.726		0.698	0.673	0.734	6.74
26)P 2-Nitrophenol	0.203	0.216	0.204	0.209		0.206	0.209	0.208	2.31
27)P 2,4-Dimethylpheno	0.414	0.408	0.371	0.371		0.364	0.351	0.380	6.66
28)P bis(2-Chloroethox	0.454	0.446	0.414	0.412		0.397	0.377	0.417	6.98
29) Benzoic Acid	0.236	0.276	0.290	0.315		0.306	0.310	0.289	10.22
30)P 2,4-Dichloropheno	0.320	0.327	0.300	0.302		0.295	0.296	0.307	4.46
31) 1,2,4-Trichlorobe	0.325	0.328	0.302	0.310		0.303	0.306	0.312	3.59
32)P Naphthalene	1.184	1.148	1.052	1.031		0.934	0.838	1.031	12.57
33)P 4-Chloroaniline	0.512	0.507	0.468	0.476		0.461	0.434	0.476	6.16
34) 2,6-Dichloropheno	0.320	0.327	0.300	0.302		0.295	0.296	0.307	4.46
35)P Hexachlorobutadie	0.179	0.177	0.169	0.172		0.176	0.174	0.175	2.09
36)P Caprolactam	0.128	0.129	0.120	0.127		0.121	0.121	0.124	3.37
37)P 4-Chloro-3-methyl	0.345	0.346	0.331	0.337		0.320	0.314	0.332	3.98
38)P 2-Methylnaphthale	0.816	0.808	0.724	0.721		0.687	0.636	0.732	9.50
39) 1-Methylnaphthale	0.708	0.696	0.643	0.642		0.625	0.587	0.650	6.92

Initial Calibration Summary

Job Number: FA23189 **Sample:** SX1826-ICC1826
Account: FPMRNYR FPM Remediations **Lab FileID:** X039252.D
Project: HM-AZ PBR Holloman AFB; Alamogordo, NM

```
40)P 1,2,4,5-Tetrachlo 0.314 0.324 0.288 0.307       0.301 0.297 0.305   4.22

41) I   Acenaphthene-d10      ----------------ISTD---------------------
42)P Hexachlorocyclope 0.312 0.334 0.352 0.379       0.375 0.398 0.358   8.87
43)P 2,4,6-Trichloroph 0.379 0.385 0.366 0.384       0.372 0.386 0.379   2.11
44)P 2,4,5-Trichloroph 0.405 0.409 0.399 0.403       0.392 0.412 0.403   1.86
45)S 2-Fluorobiphenyl  1.489 1.435 1.360 1.371       1.268 1.212 1.356   7.58
46)P 1,1'-Biphenyl     1.769 1.650 1.569 1.527       1.374 1.255 1.524  12.21
47)P 2-Chloronaphthale 1.320 1.232 1.164 1.182       1.093 1.073 1.178   7.74
48)P 2-Nitroaniline    0.441 0.442 0.440 0.466       0.435 0.423 0.441   3.17
49)  p-Dinitrobenzene  0.242 0.256 0.269 0.285       0.272 0.274 0.266   5.67
50)P Dimethylphthalate 1.417 1.391 1.333 1.344       1.274 1.196 1.326   6.08
51)  m-Dinitrobenzene  0.210 0.223 0.219 0.229       0.229 0.236 0.224   4.09
52)P 2,6-Dinitrotoluen 0.312 0.320 0.307 0.312       0.308 0.306 0.311   1.65
53)  o-Dinitrobenzene  0.294 0.278 0.282 0.288       0.263 0.253 0.276   5.59
54)P Acenaphthylene    2.084 1.991 1.920 1.856       1.713 1.560 1.854  10.31
55)P 3-Nitroaniline    0.431 0.444 0.444 0.461       0.446 0.445 0.445   2.10
56)P Acenaphthene      1.282 1.251 1.215 1.214       1.120 1.078 1.193   6.58
57)P 2,4-Dinitrophenol 0.072 0.109 0.149 0.187       0.195 0.204 0.153  34.80
            ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9984
              Response Ratio = 0.00000 + 0.15147 *A + 0.02178 *A^2

58)P 4-Nitrophenol     0.148 0.158 0.191 0.215       0.208 0.219 0.190  15.94
            ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9986
              Response Ratio = 0.00000 + 0.19062 *A + 0.01118 *A^2

59)P Dibenzofuran      1.812 1.787 1.711 1.685       1.540 1.456 1.665   8.43
60)P 2,4-Dinitrotoluen 0.417 0.419 0.419 0.439       0.419 0.427 0.423   2.03
61)P 2,3,5,6-Tetrachlo 0.296 0.311 0.301 0.330       0.330 0.339 0.318   5.51
62)P 2,3,4,6-Tetrachlo 0.306 0.300 0.300 0.322       0.318 0.321 0.311   3.32
63)P Diethylphthalate  1.438 1.421 1.388 1.396       1.326 1.246 1.369   5.22
64)P Fluorene          1.514 1.441 1.357 1.377       1.292 1.201 1.364   8.07
65)P 4-Chlorophenyl-ph 0.640 0.616 0.604 0.634       0.598 0.607 0.617   2.76
66)P 4-Nitroaniline    0.288 0.281 0.340 0.367       0.354 0.360 0.332  11.34

67) I   Phenanthrene-d10      ----------------ISTD---------------------
68)P 4,6-Dinitro-2-met 0.103 0.121 0.143 0.155       0.162 0.169 0.142  17.85
            ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9998
              Response Ratio = 0.00000 + 0.13721 *A + 0.01277 *A^2

69)P Diphenylamine     0.782 0.774 0.745 0.745       0.720 0.688 0.742   4.71
70)P n-Nitrosodiphenyl 0.652 0.645 0.621 0.621       0.600 0.573 0.619   4.71
71)  1,2-Diphenylhydra 1.012 0.957 0.943 0.902       0.840 0.780 0.906   9.31
72)S 2,4,6-Tribromophe 0.077 0.086 0.084 0.089       0.097 0.106 0.090  11.52
73)P 4-Bromophenyl-phe 0.206 0.212 0.200 0.206       0.212 0.218 0.209   2.94
74)P Hexachlorobenzene 0.191 0.198 0.187 0.200       0.208 0.220 0.201   5.97
75)  Simazine          0.125 0.127 0.125 0.127       0.127 0.132 0.127   1.99
76)P Atrazine          0.258 0.250 0.234 0.248       0.236 0.263 0.248   4.60
77)P Pentachlorophenol 0.103 0.121 0.125 0.137       0.141 0.149 0.130  12.81
78)P Phenanthrene      1.300 1.253 1.202 1.175       1.097 1.024 1.175   8.62
79)P Anthracene        1.267 1.268 1.199 1.195       1.094 1.010 1.172   8.69
80)P Carbazole         1.138 1.165 1.150 1.147       1.054 0.997 1.108   6.10
81)P Di-n-butylphthala 1.520 1.528 1.461 1.380       1.264 1.123 1.379  11.59
82)P Fluoranthene      1.290 1.299 1.232 1.225       1.172 1.071 1.215   6.94

83) I   Chrysene-d12          ----------------ISTD---------------------
84)  Benzidine         0.620 0.556 0.637 0.655       0.577 0.476 0.587  11.21
85)P Pyrene            1.683 1.591 1.475 1.427       1.386 1.309 1.479   9.29
86)S Terphenyl-d14     0.934 0.925 0.877 0.907       0.932 0.909 0.914   2.34
87)P Butylbenzylphthal 0.772 0.732 0.701 0.696       0.682 0.655 0.706   5.76
```

Initial Calibration Summary

Job Number: FA23189 **Sample:** SX1826-ICC1826
Account: FPMRNYR FPM Remediations **Lab FileID:** X039252.D
Project: HM-AZ PBR Holloman AFB; Alamogordo, NM

```
88)P 3,3'-Dichlorobenz 0.262 0.275 0.324 0.349       0.362 0.343 0.319  12.94
89)P Benzo[a]anthracen 1.159 1.125 1.136 1.179       1.166 1.159 1.154   1.72
90)P Chrysene          1.127 1.107 1.058 1.103       1.108 1.067 1.095   2.44
91)P bis(2-Ethylhexyl) 1.003 0.969 0.917 0.927       0.917 0.879 0.935   4.72

92) I   Perylene-d12          ----------------ISTD---------------------
93)P Di-n-octylphthala 1.991 2.050 2.084 2.110       2.065 1.991 2.049   2.37
94)P Benzo[b]fluoranth 1.204 1.240 1.268 1.330       1.321 1.328 1.282   4.13
95)P Benzo[k]fluoranth 1.319 1.271 1.313 1.370       1.335 1.282 1.315   2.72
96)P Benzo[a]pyrene    0.996 1.043 1.137 1.240       1.246 1.240 1.150   9.58
97)P Indeno[1,2,3-cd]p 0.538 0.576 0.694 0.795       0.855 0.859 0.719  19.42
            ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9987
              Response Ratio = 0.00000 + 0.70934 *A + 0.06393 *A^2

98)P Dibenz[a,h]anthra 0.446 0.512 0.625 0.744       0.815 0.832 0.662  24.30
            ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9987
              Response Ratio = 0.00000 + 0.63053 *A + 0.08480 *A^2

99)P Benzo[g,h,i]peryl 0.718 0.726 0.851 0.921       0.973 0.938 0.855  12.88
-------------------------------------------------------------------------------
(#) = Out of Range

          8270d_0330.m        Tue Mar 31 11:05:13 2015
```

Initial Calibration Verification

Job Number: FA23189
Account: FPMRNYR FPM Remediations
Project: HM-AZ PBR Holloman AFB; Alamogordo, NM

Sample: SX1826-ICV1826
Lab FileID: X039256.D

Evaluate Continuing Calibration Report

```
Data File : C:\msdchem\1\DATA\sx1826\x039256.D          Vial: 11
Acq On    : 30 Mar 2015   5:57 pm                   Operator: nareshj
Sample    : icv1826-50                              Inst    : MSBNA05
Misc      : op55392,sx1826,1000,,,1,1,water         Multiplr: 1.00
MS Integration Params: lscint.p

Method       : C:\msdchem\1\METHODS\8270d_0330.m (RTE Integrator)
Title        : SW846 8270D OR EPA 625
Last Update  : Tue Mar 31 09:29:41 2015
Response via : Multiple Level Calibration

Min. RRF     :   0.000  Min. Rel. Area :  50%  Max. R.T. Dev  0.50min
Max. RRF Dev :  20%     Max. Rel. Area : 200%
```

		Compound	Amount	Calc.	%Drift	Area%	Dev(min)	R.T.
1	I	1,4-Dichlorobenzene-d4	40.000	40.000	0.0	116	0.00	5.05
2		1,4-Dioxane	50.000	61.186	-22.4#	140	0.04	2.48
3		N-nitrosodimethylamine	50.000	48.674	2.7	108	0.03	2.82
4		Pyridine		----------NA----------				
5	S	2-Fluorophenol		----------NA----------				
		----------	Amount	Calc.	%Drift	----------		
6	P	Benzaldehyde		----------NA----------				
		----------	Amount	Calc.	%Drift	----------		
7		Aniline		----------NA----------				
8	P	bis(2-Chloroethyl)ether	50.000	47.586	4.8	110	0.00	4.86
9	S	Phenol-d5		----------NA----------				
10	P	Phenol	50.000	45.883	8.2	106	0.00	4.82
11	P	2-Chlorophenol	50.000	49.007	2.0	113	0.00	4.91
12		1,3-Dichlorobenzene	50.000	47.331	5.3	109	0.00	5.02
13		1,4-Dichlorobenzene	50.000	48.305	3.4	110	0.00	5.06
14		1,2-Dichlorobenzene	50.000	47.857	4.3	109	0.00	5.22
15		Benzyl alcohol		----------NA----------				
16	P	2-Methylphenol	50.000	46.613	6.8	105	0.00	5.31
		----------	Amount	Calc.	%Drift	----------		
17	P	bis(2-chloroisopropyl)eth	50.000	44.989	10.0	106	0.00	5.32
		----------	Amount	Calc.	%Drift	----------		
18	P	Acetophenone	50.000	52.305	-4.6	121	0.00	5.41
19	P	N-Nitroso-di-n-propylamin	50.000	47.475	5.0	102	0.00	5.44
20	P	3&4-Methylphenol	100.000	92.394	7.6	99	0.00	5.44
21	P	Hexachloroethane	50.000	47.964	4.1	109	0.00	5.48
22	I	Naphthalene-d8	40.000	40.000	0.0	109	0.00	6.14
23	S	Nitrobenzene-d5		----------NA----------				
24	P	Nitrobenzene	50.000	48.919	2.2	108	0.00	5.56
25	P	Isophorone	50.000	45.558	8.9	101	0.00	5.76
26	P	2-Nitrophenol	50.000	53.451	-6.9	116	0.00	5.83
27	P	2,4-Dimethylphenol	50.000	51.223	-2.4	115	0.00	5.88
28	P	bis(2-Chloroethoxy)methan	50.000	48.143	3.7	106	0.00	5.96
29		Benzoic Acid	100.000	107.374	-7.4	96	0.00	6.05
30	P	2,4-Dichlorophenol	50.000	48.653	2.7	108	0.00	6.04
31		1,2,4-Trichlorobenzene	50.000	47.203	5.6	104	0.00	6.11
32	P	Naphthalene	50.000	50.016	-0.0	109	0.00	6.16
33	P	4-Chloroaniline		----------NA----------				

Initial Calibration Verification

Job Number: FA23189 **Sample:** SX1826-ICV1826
Account: FPMRNYR FPM Remediations **Lab FileID:** X039256.D
Project: HM-AZ PBR Holloman AFB; Alamogordo, NM

34		2,6-Dichlorophenol	50.000	48.653	2.7	108	0.00	6.04
35	P	Hexachlorobutadiene	50.000	53.614	-7.2	119	0.00	6.32
36	P	Caprolactam	50.000	45.162	9.7	97	-0.03	6.54
37	P	4-Chloro-3-methylphenol	50.000	48.245	3.5	104	0.00	6.66
38	P	2-Methylnaphthalene		----------NA----------				
39		1-Methylnaphthalene	50.000	59.224	-18.4	131	0.00	6.85
40	P	1,2,4,5-Tetrachlorobenzen	50.000	47.003	6.0	102	0.00	6.94
41	I	Acenaphthene-d10	40.000	40.000	0.0	109	0.00	7.69
42	P	Hexachlorocyclopentadiene	50.000	44.924	10.2	93	0.00	6.96
43	P	2,4,6-Trichlorophenol	50.000	51.095	-2.2	110	0.00	7.04
44	P	2,4,5-Trichlorophenol	50.000	49.833	0.3	109	0.00	7.07
45	S	2-Fluorobiphenyl		----------NA----------				
46	P	1,1'-Biphenyl	50.000	47.367	5.3	103	0.00	7.18
47	P	2-Chloronaphthalene	50.000	47.589	4.8	104	0.00	7.18
48	P	2-Nitroaniline		----------NA----------				
49		p-Dinitrobenzene		----------NA----------				
50	P	Dimethylphthalate	50.000	48.617	2.8	105	-0.01	7.49
51		m-Dinitrobenzene		----------NA----------				
52	P	2,6-Dinitrotoluene	50.000	46.020	8.0	100	0.00	7.55
53		o-Dinitrobenzene		----------NA----------				
54	P	Acenaphthylene	50.000	50.628	-1.3	110	0.00	7.55
55	P	3-Nitroaniline		----------NA----------				
56	P	Acenaphthene	50.000	49.478	1.0	106	0.00	7.72
		----------	Amount	Calc.	%Drift		----------	
57	P	2,4-Dinitrophenol	100.000	104.025	-4.0	102	-0.01	7.76
58	P	4-Nitrophenol	100.000	91.095	8.9	86	0.00	7.84
		----------	Amount	Calc.	%Drift		----------	
59	P	Dibenzofuran		----------NA----------				
60	P	2,4-Dinitrotoluene	50.000	47.620	4.8	100	-0.01	7.89
61	P	2,3,5,6-Tetrachlorophenol		----------NA----------				
62	P	2,3,4,6-Tetrachlorophenol	50.000	46.382	7.2	98	0.00	8.01
63	P	Diethylphthalate	50.000	46.521	7.0	100	0.00	8.12
64	P	Fluorene	50.000	49.365	1.3	107	0.00	8.16
65	P	4-Chlorophenyl-phenylethe	50.000	47.816	4.4	101	0.00	8.16
66	P	4-Nitroaniline		----------NA----------				
67	I	Phenanthrene-d10	40.000	40.000	0.0	106	0.00	8.98
		----------	Amount	Calc.	%Drift		----------	
68	P	4,6-Dinitro-2-methylpheno	100.000	93.227	6.8	88	-0.01	8.25
		----------	Amount	Calc.	%Drift		----------	
69	P	Diphenylamine	50.000	40.705	18.6	86	0.00	8.27
70	P	n-Nitrosodiphenylamine	50.000	48.846	2.3	86	0.00	8.27
71		1,2-Diphenylhydrazine	50.000	46.404	7.2	99	0.00	8.30
72	S	2,4,6-Tribromophenol		----------NA----------				
73	P	4-Bromophenyl-phenylether	50.000	42.889	14.2	92	0.00	8.58
74	P	Hexachlorobenzene	50.000	39.961	20.1#	85	0.00	8.71
75		Simazine		----------NA----------				
76	P	Atrazine	50.000	42.541	14.9	90	-0.01	8.77
77	P	Pentachlorophenol	100.000	124.482	-24.5#	103	0.00	8.88
78	P	Phenanthrene	50.000	48.856	2.3	104	0.00	9.00
79	P	Anthracene	50.000	50.092	-0.2	104	0.00	9.04
80	P	Carbazole		----------NA----------				
81	P	Di-n-butylphthalate	50.000	47.018	6.0	100	0.00	9.54
82	P	Fluoranthene	50.000	48.655	2.7	102	0.00	10.05

Initial Calibration Verification

Job Number: FA23189 **Sample:** SX1826-ICV1826
Account: FPMRNYR FPM Remediations **Lab FileID:** X039256.D
Project: HM-AZ PBR Holloman AFB; Alamogordo, NM

83	I	Chrysene-d12	40.000	40.000	0.0	98	0.00	11.62
84		Benzidine		----------NA----------				
85	P	Pyrene	50.000	49.717	0.6	101	0.00	10.25
86	S	Terphenyl-d14		----------NA----------				
87	P	Butylbenzylphthalate	50.000	49.767	0.5	99	0.00	10.98
88	P	3,3'-Dichlorobenzidine		----------NA----------				
89	P	Benzo[a]anthracene	50.000	49.415	1.2	95	0.00	11.60
90	P	Chrysene	50.000	49.962	0.1	97	-0.01	11.66
91	P	bis(2-Ethylhexyl)phthalat	50.000	48.836	2.3	97	0.00	11.78
92	I	Perylene-d12	40.000	40.000	0.0	101	0.00	13.96
93	P	Di-n-octylphthalate	50.000	49.198	1.6	97	0.00	12.77
94	P	Benzo[b]fluoranthene	50.000	51.241	-2.5	100	-0.02	13.28
95	P	Benzo[k]fluoranthene	50.000	49.914	0.2	97	-0.02	13.33
96	P	Benzo[a]pyrene	50.000	50.947	-1.9	96	-0.02	13.85
		----------	Amount	Calc.	%Drift		----------	
97	P	Indeno[1,2,3-cd]pyrene	50.000	48.150	3.7	97	-0.02	16.02
98	P	Dibenz[a,h]anthracene	50.000	50.531	-1.1	102	-0.03	16.10
		----------	Amount	Calc.	%Drift		----------	
99	P	Benzo[g,h,i]perylene	50.000	54.739	-9.5	103	-0.02	16.48

(#) = Out of Range SPCC's out = 0 CCC's out = 0
x039252.D 8270d_0330.m Tue Mar 31 09:40:04 2015

6.7.12

6

Initial Calibration Verification

Job Number: FA23189
Account: FPMRNYR FPM Remediations
Project: HM-AZ PBR Holloman AFB; Alamogordo, NM

Sample: SX1826-ICV1826
Lab FileID: X039257.D

Evaluate Continuing Calibration Report

```
Data File : C:\msdchem\1\DATA\sx1826\x039257.D          Vial: 12
Acq On    : 30 Mar 2015   6:22 pm                   Operator: nareshj
Sample    : icv1826-50                              Inst    : MSBNA05
Misc      : op55392,sx1826,1000,,,1,1,water         Multiplr: 1.00
MS Integration Params: lscint.p

Method       : C:\msdchem\1\METHODS\8270d_0330.m (RTE Integrator)
Title        : SW846 8270D OR EPA 625
Last Update  : Tue Mar 31 09:29:41 2015
Response via : Multiple Level Calibration

Min. RRF     :   0.000  Min. Rel. Area :  50%  Max. R.T. Dev  0.50min
Max. RRF Dev :  20%     Max. Rel. Area : 200%
```

		Compound	Amount	Calc.	%Drift	Area%	Dev(min)	R.T.
1	I	1,4-Dichlorobenzene-d4	40.000	40.000	0.0	119	0.00	5.04
2		1,4-Dioxane		NA				
3		N-nitrosodimethylamine		NA				
4		Pyridine	50.000	44.326	11.3	102	0.00	2.77
5	S	2-Fluorophenol		NA				
		Amount	Calc.	%Drift				
6	P	Benzaldehyde	50.000	45.562	8.9	106	0.00	4.68
		Amount	Calc.	%Drift				
7		Aniline	50.000	46.714	6.6	110	0.00	4.80
8	P	bis(2-Chloroethyl)ether		NA				
9	S	Phenol-d5		NA				
10	P	Phenol		NA				
11	P	2-Chlorophenol		NA				
12		1,3-Dichlorobenzene		NA				
13		1,4-Dichlorobenzene		NA				
14		1,2-Dichlorobenzene		NA				
15		Benzyl alcohol	50.000	45.432	9.1	108	-0.01	5.19
16	P	2-Methylphenol		NA				
		Amount	Calc.	%Drift				
17	P	bis(2-chloroisopropyl)eth		NA				
		Amount	Calc.	%Drift				
18	P	Acetophenone		NA				
19	P	N-Nitroso-di-n-propylamin		NA				
20	P	3&4-Methylphenol		NA				
21	P	Hexachloroethane		NA				
22	I	Naphthalene-d8	40.000	40.000	0.0	115	0.00	6.14
23	S	Nitrobenzene-d5		NA				
24	P	Nitrobenzene		NA				
25	P	Isophorone		NA				
26	P	2-Nitrophenol		NA				
27	P	2,4-Dimethylphenol		NA				
28	P	bis(2-Chloroethoxy)methan		NA				
29		Benzoic Acid		NA				
30	P	2,4-Dichlorophenol		NA				
31		1,2,4-Trichlorobenzene		NA				
32	P	Naphthalene		NA				
33	P	4-Chloroaniline	50.000	47.568	4.9	109	-0.01	6.23

Initial Calibration Verification

Job Number: FA23189 **Sample:** SX1826-ICV1826
Account: FPMRNYR FPM Remediations **Lab FileID:** X039257.D
Project: HM-AZ PBR Holloman AFB; Alamogordo, NM

34		2,6-Dichlorophenol		----------NA----------				
35	P	Hexachlorobutadiene		----------NA----------				
36	P	Caprolactam		----------NA----------				
37	P	4-Chloro-3-methylphenol		----------NA----------				
38	P	2-Methylnaphthalene	50.000	46.016	8.0	107	0.00	6.76
39		1-Methylnaphthalene		----------NA----------				
40	P	1,2,4,5-Tetrachlorobenzen		----------NA----------				
41	I	Acenaphthene-d10	40.000	40.000	0.0	115	0.00	7.69
42	P	Hexachlorocyclopentadiene		----------NA----------				
43	P	2,4,6-Trichlorophenol		----------NA----------				
44	P	2,4,5-Trichlorophenol		----------NA----------				
45	S	2-Fluorobiphenyl		----------NA----------				
46	P	1,1'-Biphenyl		----------NA----------				
47	P	2-Chloronaphthalene		----------NA----------				
48	P	2-Nitroaniline	50.000	46.427	7.1	101	0.00	7.30
49		p-Dinitrobenzene		----------NA----------				
50	P	Dimethylphthalate		----------NA----------				
51		m-Dinitrobenzene	50.000	44.833	10.3	101	-0.02	7.50
52	P	2,6-Dinitrotoluene		----------NA----------				
53		o-Dinitrobenzene		----------NA----------				
54	P	Acenaphthylene		----------NA----------				
55	P	3-Nitroaniline	50.000	48.326	3.3	107	0.00	7.30
56	P	Acenaphthene		----------NA----------				
		----------	Amount	Calc.	%Drift	----------		
57	P	2,4-Dinitrophenol		----------NA----------				
58	P	4-Nitrophenol		----------NA----------				
		----------	Amount	Calc.	%Drift	----------		
59	P	Dibenzofuran	50.000	46.363	7.3	105	0.00	7.85
60	P	2,4-Dinitrotoluene		----------NA----------				
61	P	2,3,5,6-Tetrachlorophenol		----------NA----------				
62	P	2,3,4,6-Tetrachlorophenol		----------NA----------				
63	P	Diethylphthalate		----------NA----------				
64	P	Fluorene		----------NA----------				
65	P	4-Chlorophenyl-phenylethe		----------NA----------				
66	P	4-Nitroaniline	50.000	49.208	1.6	102	-0.03	8.20
67	I	Phenanthrene-d10	40.000	40.000	0.0	110	0.00	8.97
		----------	Amount	Calc.	%Drift	----------		
68	P	4,6-Dinitro-2-methylpheno		----------NA----------				
		----------	Amount	Calc.	%Drift	----------		
69	P	Diphenylamine		----------NA----------				
70	P	n-Nitrosodiphenylamine		----------NA----------				
71		1,2-Diphenylhydrazine		----------NA----------				
72	S	2,4,6-Tribromophenol		----------NA----------				
73	P	4-Bromophenyl-phenylether		----------NA----------				
74	P	Hexachlorobenzene		----------NA----------				
75		Simazine		----------NA----------				
76	P	Atrazine		----------NA----------				
77	P	Pentachlorophenol		----------NA----------				
78	P	Phenanthrene		----------NA----------				
79	P	Anthracene		----------NA----------				
80	P	Carbazole	50.000	49.290	1.4	105	0.00	9.18
81	P	Di-n-butylphthalate		----------NA----------				
82	P	Fluoranthene		----------NA----------				

Initial Calibration Verification

Job Number: FA23189 **Sample:** SX1826-ICV1826
Account: FPMRNYR FPM Remediations **Lab FileID:** X039257.D
Project: HM-AZ PBR Holloman AFB; Alamogordo, NM

83	I	Chrysene-d12	40.000	40.000	0.0	108	-0.01	11.62
84		Benzidine	50.000	59.003	-18.0	114	0.00	10.17
85	P	Pyrene		----------NA----------				
86	S	Terphenyl-d14		----------NA----------				
87	P	Butylbenzylphthalate		----------NA----------				
88	P	3,3'-Dichlorobenzidine	50.000	52.253	-4.5	103	-0.01	11.60
89	P	Benzo[a]anthracene		----------NA----------				
90	P	Chrysene		----------NA----------				
91	P	bis(2-Ethylhexyl)phthalat		----------NA----------				
92	I	Perylene-d12	40.000	40.000	0.0	102	-0.01	13.96
93	P	Di-n-octylphthalate		----------NA----------				
94	P	Benzo[b]fluoranthene		----------NA----------				
95	P	Benzo[k]fluoranthene		----------NA----------				
96	P	Benzo[a]pyrene		----------NA----------				
		----------	Amount	Calc.	%Drift	----------		
97	P	Indeno[1,2,3-cd]pyrene		----------NA----------				
98	P	Dibenz[a,h]anthracene		----------NA----------				
		----------	Amount	Calc.	%Drift	----------		
99	P	Benzo[g,h,i]perylene		----------NA----------				

(#) = Out of Range SPCC's out = 0 CCC's out = 0
x039252.D 8270d_0330.m Tue Mar 31 14:34:32 2015

6.7.13

6

Continuing Calibration Summary

Job Number: FA23189
Account: FPMRNYR FPM Remediations
Project: HM-AZ PBR Holloman AFB; Alamogordo, NM
Sample: SX1827-CC1826
Lab FileID: X039273.D

Evaluate Continuing Calibration Report

```
Data File : C:\msdchem\1\DATA\sx1827\x039273.D          Vial: 2
Acq On    : 31 Mar 2015   1:43 pm                   Operator: marthav
Sample    : cc1826-50                               Inst    : MSBNA05
Misc      : op55392,sx1827,1000,,,1,1,water         Multiplr: 1.00
MS Integration Params: lscint.p

Method       : C:\msdchem\1\METHODS\8270d_03302.m (RTE Integrator)
Title        : SW846 8270D OR EPA 625
Last Update  : Tue Mar 31 09:29:41 2015
Response via : Multiple Level Calibration

Min. RRF     :   0.000  Min. Rel. Area :  50%  Max. R.T. Dev  0.50min
Max. RRF Dev :  20%     Max. Rel. Area : 200%
```

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	116	0.00	5.01
2		1,4-Dioxane	0.628	0.620	1.3	112	-0.02	2.40
3		N-nitrosodimethylamine	0.913	0.886	3.0	108	-0.02	2.75
4		Pyridine	1.668	1.684	-1.0	113	-0.02	2.73
5	S	2-Fluorophenol	1.432	1.435	-0.2	114	0.00	3.97
		----------	Amount	Calc.	%Drift		----------	
6	P	Benzaldehyde	50.000	39.236	21.5#	93	0.00	4.64
		----------	AvgRF	CCRF	%Dev		----------	
7		Aniline	2.117	2.069	2.3	112	0.00	4.77
8	P	bis(2-Chloroethyl)ether	1.375	1.364	0.8	115	0.00	4.82
9	S	Phenol-d5	1.457	1.416	2.8	111	0.00	4.77
10	P	Phenol	1.906	1.869	1.9	113	0.00	4.78
11	P	2-Chlorophenol	1.534	1.507	1.8	113	0.00	4.86
12		1,3-Dichlorobenzene	1.630	1.637	-0.4	115	0.00	4.98
13		1,4-Dichlorobenzene	1.630	1.594	2.2	111	0.00	5.02
14		1,2-Dichlorobenzene	1.554	1.542	0.8	113	0.00	5.18
15		Benzyl alcohol	0.984	0.980	0.4	115	0.00	5.15
16	P	2-Methylphenol	1.336	1.310	1.9	110	0.00	5.28
		----------	Amount	Calc.	%Drift		----------	
17	P	bis(2-chloroisopropyl)eth	50.000	46.319	7.4	109	0.00	5.29
		----------	AvgRF	CCRF	%Dev		----------	
18	P	Acetophenone	2.020	1.990	1.5	114	0.00	5.38
19	P	N-Nitroso-di-n-propylamin	0.790	0.776	1.8	106	0.00	5.41
20	P	3&4-Methylphenol	1.402	1.386	1.1	112	0.00	5.40
21	P	Hexachloroethane	0.668	0.665	0.4	113	0.00	5.44
22	I	Naphthalene-d8	1.000	1.000	0.0	110	0.00	6.11
23	S	Nitrobenzene-d5	0.424	0.425	-0.2	112	0.00	5.51
24	P	Nitrobenzene	0.401	0.406	-1.2	113	0.00	5.52
25	P	Isophorone	0.734	0.736	-0.3	112	0.00	5.72
26	P	2-Nitrophenol	0.208	0.218	-4.8	115	0.00	5.79
27	P	2,4-Dimethylphenol	0.380	0.378	0.5	113	0.00	5.85
28	P	bis(2-Chloroethoxy)methan	0.417	0.423	-1.4	113	0.00	5.92
29		Benzoic Acid	0.289	0.312	-8.0	109	-0.04	5.97
30	P	2,4-Dichlorophenol	0.307	0.313	-2.0	114	0.00	6.01
31		1,2,4-Trichlorobenzene	0.312	0.316	-1.3	113	0.00	6.07
32	P	Naphthalene	1.031	1.024	0.7	110	0.00	6.12
33	P	4-Chloroaniline	0.476	0.483	-1.5	112	0.00	6.19

Continuing Calibration Summary

Job Number: FA23189 **Sample:** SX1827-CC1826
Account: FPMRNYR FPM Remediations **Lab FileID:** X039273.D
Project: HM-AZ PBR Holloman AFB; Alamogordo, NM

34		2,6-Dichlorophenol	0.307	0.313	-2.0	114	0.00	6.01
35	P	Hexachlorobutadiene	0.175	0.178	-1.7	114	0.00	6.29
36	P	Caprolactam	0.124	0.129	-4.0	112	-0.02	6.50
37	P	4-Chloro-3-methylphenol	0.332	0.333	-0.3	109	0.00	6.63
38	P	2-Methylnaphthalene	0.732	0.745	-1.8	114	0.00	6.72
39		1-Methylnaphthalene	0.650	0.641	1.4	110	0.00	6.82
40	P	1,2,4,5-Tetrachlorobenzen	0.305	0.307	-0.7	110	0.00	6.91
41	I	Acenaphthene-d10	1.000	1.000	0.0	113	0.00	7.65
42	P	Hexachlorocyclopentadiene	0.358	0.382	-6.7	114	0.00	6.93
43	P	2,4,6-Trichlorophenol	0.379	0.382	-0.8	113	0.00	7.00
44	P	2,4,5-Trichlorophenol	0.403	0.399	1.0	112	0.00	7.04
45	S	2-Fluorobiphenyl	1.356	1.347	0.7	112	0.00	7.07
46	P	1,1'-Biphenyl	1.524	1.490	2.2	111	0.00	7.14
47	P	2-Chloronaphthalene	1.178	1.145	2.8	110	0.00	7.15
48	P	2-Nitroaniline	0.441	0.448	-1.6	109	0.00	7.27
49		p-Dinitrobenzene	0.266	0.280	-5.3	112	0.00	7.37
50	P	Dimethylphthalate	1.326	1.292	2.6	109	0.00	7.46
51		m-Dinitrobenzene	0.224	0.230	-2.7	114	0.00	7.47
52	P	2,6-Dinitrotoluene	0.311	0.311	0.0	113	0.00	7.52
53		o-Dinitrobenzene	0.276	0.276	0.0	109	0.00	7.58
54	P	Acenaphthylene	1.854	1.834	1.1	112	0.00	7.52
55	P	3-Nitroaniline	0.445	0.462	-3.8	114	0.00	7.27
56	P	Acenaphthene	1.193	1.189	0.3	111	0.00	7.68
		----------	Amount	Calc.	%Drift		----------	
57	P	2,4-Dinitrophenol	50.000	49.910	0.2	108	0.00	7.72
58	P	4-Nitrophenol	50.000	50.712	-1.4	110	0.00	7.80
		----------	AvgRF	CCRF	%Dev		----------	
59	P	Dibenzofuran	1.665	1.650	0.9	111	0.00	7.82
60	P	2,4-Dinitrotoluene	0.423	0.434	-2.6	112	0.00	7.86
61	P	2,3,5,6-Tetrachlorophenol	0.318	0.329	-3.5	113	0.00	7.93
62	P	2,3,4,6-Tetrachlorophenol	0.311	0.313	-0.6	111	0.00	7.97
63	P	Diethylphthalate	1.369	1.345	1.8	109	0.00	8.08
64	P	Fluorene	1.364	1.358	0.4	112	0.00	8.12
65	P	4-Chlorophenyl-phenylethe	0.617	0.616	0.2	110	0.00	8.12
66	P	4-Nitroaniline	0.332	0.361	-8.7	112	0.00	8.18
67	I	Phenanthrene-d10	1.000	1.000	0.0	111	0.00	8.94
		----------	Amount	Calc.	%Drift		----------	
68	P	4,6-Dinitro-2-methylpheno	50.000	51.503	-3.0	113	-0.01	8.22
		----------	AvgRF	CCRF	%Dev		----------	
69	P	Diphenylamine	0.742	0.739	0.4	110	0.00	8.24
70	P	n-Nitrosodiphenylamine	0.619	0.616	0.5	110	0.00	8.24
71		1,2-Diphenylhydrazine	0.906	0.887	2.1	109	0.00	8.26
72	S	2,4,6-Tribromophenol	0.090	0.091	-1.1	113	0.00	8.35
73	P	4-Bromophenyl-phenylether	0.209	0.209	0.0	113	0.00	8.55
74	P	Hexachlorobenzene	0.201	0.195	3.0	108	0.00	8.68
75		Simazine	0.127	0.128	-0.8	112	-0.01	8.71
76	P	Atrazine	0.248	0.239	3.6	107	0.00	8.74
77	P	Pentachlorophenol	0.130	0.143	-10.0	115	0.00	8.84
78	P	Phenanthrene	1.175	1.176	-0.1	111	0.00	8.96
79	P	Anthracene	1.172	1.172	0.0	109	0.00	9.00
80	P	Carbazole	1.108	1.129	-1.9	109	0.00	9.15
81	P	Di-n-butylphthalate	1.379	1.344	2.5	108	0.00	9.51
82	P	Fluoranthene	1.215	1.203	1.0	109	0.00	10.01

Continuing Calibration Summary

Job Number: FA23189 **Sample:** SX1827-CC1826
Account: FPMRNYR FPM Remediations **Lab FileID:** X039273.D
Project: HM-AZ PBR Holloman AFB; Alamogordo, NM

83	I	Chrysene-d12	1.000	1.000	0.0	107	0.00	11.57
84		Benzidine	0.587	0.548	6.6	90	0.01	10.14
85	P	Pyrene	1.479	1.443	2.4	109	0.00	10.21
86	S	Terphenyl-d14	0.914	0.942	-3.1	112	0.00	10.38
87	P	Butylbenzylphthalate	0.706	0.710	-0.6	110	0.00	10.94
88	P	3,3'-Dichlorobenzidine	0.319	0.346	-8.5	106	0.00	11.55
89	P	Benzo[a]anthracene	1.154	1.194	-3.5	109	0.00	11.55
90	P	Chrysene	1.095	1.104	-0.8	108	0.00	11.61
91	P	bis(2-Ethylhexyl)phthalat	0.935	0.949	-1.5	110	0.00	11.73
92	I	Perylene-d12	1.000	1.000	0.0	108	0.00	13.88
93	P	Di-n-octylphthalate	2.049	2.168	-5.8	111	0.01	12.71
94	P	Benzo[b]fluoranthene	1.282	1.340	-4.5	109	0.00	13.22
95	P	Benzo[k]fluoranthene	1.315	1.318	-0.2	104	0.00	13.27
96	P	Benzo[a]pyrene	1.150	1.232	-7.1	108	0.00	13.78
			Amount	Calc.	%Drift			
97	P	Indeno[1,2,3-cd]pyrene	50.000	51.795	-3.6	112	0.00	15.94
98	P	Dibenz[a,h]anthracene	50.000	51.361	-2.7	111	-0.01	16.01
			AvgRF	CCRF	%Dev			
99	P	Benzo[g,h,i]perylene	0.855	0.898	-5.0	106	0.00	16.41

(#) = Out of Range SPCC's out = 0 CCC's out = 0
x039252.D 8270d_03302.m Wed Apr 01 14:57:26 2015

6.7.14

6

Continuing Calibration Summary

Job Number: FA23189 **Sample:** SX1827-ECC1826
Account: FPMRNYR FPM Remediations **Lab FileID:** X039299.D
Project: HM-AZ PBR Holloman AFB; Alamogordo, NM

Evaluate Continuing Calibration Report

```
Data File : C:\msdchem\1\DATA\sx1827\x039299.D          Vial: 2
Acq On    :  1 Apr 2015   1:02 am                   Operator: marthav
Sample    : ecc1826-50                              Inst    : MSBNA05
Misc      : op55392,sx1827,1000,,,1,1,water         Multiplr: 1.00
MS Integration Params: lscint.p

Method       : C:\msdchem\1\METHODS\8270d_03302.m (RTE Integrator)
Title        : SW846 8270D OR EPA 625
Last Update  : Tue Mar 31 09:29:41 2015
Response via : Multiple Level Calibration

Min. RRF     :   0.000  Min. Rel. Area :  50%  Max. R.T. Dev  0.50min
Max. RRF Dev :  50%     Max. Rel. Area : 200%
```

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	106	0.00	5.01
2		1,4-Dioxane	0.628	0.640	-1.9	106	-0.01	2.40
3		N-nitrosodimethylamine	0.913	0.928	-1.6	103	-0.02	2.75
4		Pyridine	1.668	1.646	1.3	101	0.00	2.74
5	S	2-Fluorophenol	1.432	1.435	-0.2	104	0.00	3.98
		----------	Amount	Calc.	%Drift		----------	
6	P	Benzaldehyde	50.000	40.869	18.3	88	0.00	4.65
		----------	AvgRF	CCRF	%Dev		----------	
7		Aniline	2.117	2.121	-0.2	105	0.00	4.77
8	P	bis(2-Chloroethyl)ether	1.375	1.370	0.4	105	0.00	4.83
9	S	Phenol-d5	1.457	1.447	0.7	104	0.00	4.78
10	P	Phenol	1.906	1.893	0.7	104	0.00	4.79
11	P	2-Chlorophenol	1.534	1.525	0.6	104	0.00	4.87
12		1,3-Dichlorobenzene	1.630	1.627	0.2	105	0.00	4.98
13		1,4-Dichlorobenzene	1.630	1.630	0.0	104	0.00	5.02
14		1,2-Dichlorobenzene	1.554	1.541	0.8	103	0.00	5.18
15		Benzyl alcohol	0.984	1.029	-4.6	111	0.00	5.16
16	P	2-Methylphenol	1.336	1.341	-0.4	103	0.00	5.28
		----------	Amount	Calc.	%Drift		----------	
17	P	bis(2-chloroisopropyl)eth	50.000	45.893	8.2	99	0.00	5.29
		----------	AvgRF	CCRF	%Dev		----------	
18	P	Acetophenone	2.020	2.001	0.9	104	0.00	5.38
19	P	N-Nitroso-di-n-propylamin	0.790	0.785	0.6	98	0.00	5.41
20	P	3&4-Methylphenol	1.402	1.411	-0.6	104	0.00	5.40
21	P	Hexachloroethane	0.668	0.585	12.4	91	0.00	5.45
22	I	Naphthalene-d8	1.000	1.000	0.0	104	0.00	6.11
23	S	Nitrobenzene-d5	0.424	0.425	-0.2	105	0.00	5.51
24	P	Nitrobenzene	0.401	0.403	-0.5	105	0.00	5.52
25	P	Isophorone	0.734	0.734	0.0	105	0.00	5.73
26	P	2-Nitrophenol	0.208	0.207	0.5	103	0.00	5.80
27	P	2,4-Dimethylphenol	0.380	0.384	-1.1	107	0.00	5.85
28	P	bis(2-Chloroethoxy)methan	0.417	0.418	-0.2	105	0.00	5.93
29		Benzoic Acid	0.289	0.285	1.4	94	-0.03	5.98
30	P	2,4-Dichlorophenol	0.307	0.310	-1.0	107	0.00	6.01
31		1,2,4-Trichlorobenzene	0.312	0.313	-0.3	105	0.00	6.08
32	P	Naphthalene	1.031	1.033	-0.2	104	0.00	6.13
33	P	4-Chloroaniline	0.476	0.480	-0.8	105	0.00	6.20

Continuing Calibration Summary

Job Number: FA23189 **Sample:** SX1827-ECC1826
Account: FPMRNYR FPM Remediations **Lab FileID:** X039299.D
Project: HM-AZ PBR Holloman AFB; Alamogordo, NM

34		2,6-Dichlorophenol	0.307	0.310	-1.0	107	0.00	6.01
35	P	Hexachlorobutadiene	0.175	0.175	0.0	105	0.00	6.29
36	P	Caprolactam	0.124	0.128	-3.2	105	-0.02	6.51
37	P	4-Chloro-3-methylphenol	0.332	0.336	-1.2	104	0.00	6.64
38	P	2-Methylnaphthalene	0.732	0.731	0.1	105	0.00	6.73
39		1-Methylnaphthalene	0.650	0.641	1.4	104	0.00	6.82
40	P	1,2,4,5-Tetrachlorobenzen	0.305	0.306	-0.3	103	0.00	6.91
41	I	Acenaphthene-d10	1.000	1.000	0.0	105	0.00	7.66
42	P	Hexachlorocyclopentadiene	0.358	0.137	61.7#	38#	0.00	6.93
43	P	2,4,6-Trichlorophenol	0.379	0.378	0.3	104	0.00	7.01
44	P	2,4,5-Trichlorophenol	0.403	0.400	0.7	105	0.00	7.04
45	S	2-Fluorobiphenyl	1.356	1.348	0.6	104	0.00	7.07
46	P	1,1'-Biphenyl	1.524	1.539	-1.0	106	0.00	7.14
47	P	2-Chloronaphthalene	1.178	1.153	2.1	103	0.00	7.15
48	P	2-Nitroaniline	0.441	0.458	-3.9	104	0.00	7.27
49		p-Dinitrobenzene	0.266	0.269	-1.1	99	0.00	7.37
50	P	Dimethylphthalate	1.326	1.327	-0.1	104	0.00	7.47
51		m-Dinitrobenzene	0.224	0.221	1.3	102	0.00	7.47
52	P	2,6-Dinitrotoluene	0.311	0.313	-0.6	106	0.00	7.52
53		o-Dinitrobenzene	0.276	0.273	1.1	100	0.00	7.58
54	P	Acenaphthylene	1.854	1.817	2.0	103	0.00	7.52
55	P	3-Nitroaniline	0.445	0.461	-3.6	106	0.00	7.27
56	P	Acenaphthene	1.193	1.181	1.0	103	0.00	7.68
		----------	Amount	Calc.	%Drift	----------		
57	P	2,4-Dinitrophenol	50.000	13.969	72.1#	25	0.00	7.72
58	P	4-Nitrophenol	50.000	51.727	-3.5	104	0.00	7.80
		----------	AvgRF	CCRF	%Dev	----------		
59	P	Dibenzofuran	1.665	1.652	0.8	103	0.00	7.82
60	P	2,4-Dinitrotoluene	0.423	0.432	-2.1	104	0.00	7.86
61	P	2,3,5,6-Tetrachlorophenol	0.318	0.323	-1.6	103	0.00	7.93
62	P	2,3,4,6-Tetrachlorophenol	0.311	0.310	0.3	102	0.00	7.97
63	P	Diethylphthalate	1.369	1.373	-0.3	104	0.00	8.09
64	P	Fluorene	1.364	1.374	-0.7	105	0.00	8.12
65	P	4-Chlorophenyl-phenylethe	0.617	0.622	-0.8	103	0.00	8.13
66	P	4-Nitroaniline	0.332	0.375	-13.0	108	0.00	8.18
67	I	Phenanthrene-d10	1.000	1.000	0.0	103	0.00	8.94
		----------	Amount	Calc.	%Drift	----------		
68	P	4,6-Dinitro-2-methylpheno	50.000	18.095	63.8#	34	0.00	8.22
		----------	AvgRF	CCRF	%Dev	----------		
69	P	Diphenylamine	0.742	0.756	-1.9	104	0.00	8.24
70	P	n-Nitrosodiphenylamine	0.619	0.630	-1.8	104	0.00	8.24
71		1,2-Diphenylhydrazine	0.906	0.906	0.0	103	0.00	8.26
72	S	2,4,6-Tribromophenol	0.090	0.094	-4.4	109	0.00	8.36
73	P	4-Bromophenyl-phenylether	0.209	0.216	-3.3	108	0.00	8.55
74	P	Hexachlorobenzene	0.201	0.208	-3.5	107	0.00	8.68
75		Simazine	0.127	0.126	0.8	102	0.00	8.71
76	P	Atrazine	0.248	0.247	0.4	102	0.00	8.74
77	P	Pentachlorophenol	0.130	0.137	-5.4	103	0.00	8.84
78	P	Phenanthrene	1.175	1.165	0.9	102	0.00	8.96
79	P	Anthracene	1.172	1.193	-1.8	102	0.00	9.00
80	P	Carbazole	1.108	1.153	-4.1	103	0.00	9.15
81	P	Di-n-butylphthalate	1.379	1.397	-1.3	104	0.00	9.51
82	P	Fluoranthene	1.215	1.221	-0.5	102	0.00	10.02

Continuing Calibration Summary

Job Number: FA23189 **Sample:** SX1827-ECC1826
Account: FPMRNYR FPM Remediations **Lab FileID:** X039299.D
Project: HM-AZ PBR Holloman AFB; Alamogordo, NM

83	I	Chrysene-d12	1.000	1.000	0.0	101	0.00	11.58
84		Benzidine	0.587	0.589	-0.3	91	0.02	10.14
85	P	Pyrene	1.479	1.468	0.7	104	0.01	10.22
86	S	Terphenyl-d14	0.914	0.962	-5.3	107	0.01	10.38
87	P	Butylbenzylphthalate	0.706	0.717	-1.6	104	0.01	10.94
88	P	3,3'-Dichlorobenzidine	0.319	0.358	-12.2	104	0.00	11.56
89	P	Benzo[a]anthracene	1.154	1.174	-1.7	101	0.00	11.55
90	P	Chrysene	1.095	1.094	0.1	100	0.00	11.61
91	P	bis(2-Ethylhexyl)phthalat	0.935	0.955	-2.1	104	0.00	11.73
92	I	Perylene-d12	1.000	1.000	0.0	101	0.02	13.90
93	P	Di-n-octylphthalate	2.049	2.278	-11.2	109	0.02	12.72
94	P	Benzo[b]fluoranthene	1.282	1.372	-7.0	104	0.01	13.23
95	P	Benzo[k]fluoranthene	1.315	1.309	0.5	97	0.00	13.28
96	P	Benzo[a]pyrene	1.150	1.240	-7.8	101	0.00	13.80
		----------	Amount	Calc.	%Drift		----------	
97	P	Indeno[1,2,3-cd]pyrene	50.000	48.893	2.2	98	0.00	15.96
98	P	Dibenz[a,h]anthracene	50.000	50.465	-0.9	101	0.00	16.03
		----------	AvgRF	CCRF	%Dev		----------	
99	P	Benzo[g,h,i]perylene	0.855	0.781	8.7	86	0.02	16.42

(#) = Out of Range SPCC's out = 0 CCC's out = 0
x039252.D 8270d_03302.m Wed Apr 01 14:56:52 2015

6.7.15

6

Continuing Calibration Summary

Job Number: FA23189
Account: FPMRNYR FPM Remediations
Project: HM-AZ PBR Holloman AFB; Alamogordo, NM
Sample: SX1828-CC1826
Lab FileID: X039303.D

Evaluate Continuing Calibration Report

```
Data File : C:\msdchem\1\DATA\sx1828\x039303.D          Vial: 2
Acq On    :  1 Apr 2015   9:55 am                   Operator: marthav
Sample    : cc1826-50                               Inst    : MSBNA05
Misc      : op55512,sx1828,1000,,,1,1,water         Multiplr: 1.00
MS Integration Params: lscint.p

Method       : C:\msdchem\1\METHODS\8270d_03302.m (RTE Integrator)
Title        : SW846 8270D OR EPA 625
Last Update  : Tue Mar 31 09:29:41 2015
Response via : Multiple Level Calibration

Min. RRF     :   0.000  Min. Rel. Area :  50%  Max. R.T. Dev  0.50min
Max. RRF Dev :  20%     Max. Rel. Area : 200%
```

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	82	0.00	4.99
2		1,4-Dioxane	0.628	0.634	-1.0	81	-0.03	2.38
3		N-nitrosodimethylamine	0.913	0.903	1.1	77	-0.03	2.73
4		Pyridine	1.668	1.661	0.4	78	-0.03	2.71
5	S	2-Fluorophenol	1.432	1.428	0.3	80	-0.01	3.96
		----------	Amount	Calc.	%Drift		----------	
6	P	Benzaldehyde	50.000	51.617	-3.2	79	0.00	4.63
		----------	AvgRF	CCRF	%Dev		----------	
7		Aniline	2.117	2.082	1.7	79	0.00	4.75
8	P	bis(2-Chloroethyl)ether	1.375	1.360	1.1	81	0.00	4.81
9	S	Phenol-d5	1.457	1.430	1.9	79	0.00	4.75
10	P	Phenol	1.906	1.895	0.6	81	0.00	4.77
11	P	2-Chlorophenol	1.534	1.508	1.7	80	0.00	4.85
12		1,3-Dichlorobenzene	1.630	1.603	1.7	80	0.00	4.96
13		1,4-Dichlorobenzene	1.630	1.608	1.3	79	0.00	5.01
14		1,2-Dichlorobenzene	1.554	1.539	1.0	79	0.00	5.16
15		Benzyl alcohol	0.984	1.001	-1.7	83	0.00	5.14
16	P	2-Methylphenol	1.336	1.344	-0.6	80	0.00	5.26
		----------	Amount	Calc.	%Drift		----------	
17	P	bis(2-chloroisopropyl)eth	50.000	44.923	10.2	75	0.00	5.27
		----------	AvgRF	CCRF	%Dev		----------	
18	P	Acetophenone	2.020	1.918	5.0	77	0.00	5.36
19	P	N-Nitroso-di-n-propylamin	0.790	0.776	1.8	74	0.00	5.39
20	P	3&4-Methylphenol	1.402	1.377	1.8	79	0.00	5.38
21	P	Hexachloroethane	0.668	0.664	0.6	80	0.00	5.43
22	I	Naphthalene-d8	1.000	1.000	0.0	82	0.00	6.09
23	S	Nitrobenzene-d5	0.424	0.407	4.0	79	0.00	5.49
24	P	Nitrobenzene	0.401	0.382	4.7	79	0.00	5.50
25	P	Isophorone	0.734	0.703	4.2	79	0.00	5.71
26	P	2-Nitrophenol	0.208	0.210	-1.0	83	0.00	5.78
27	P	2,4-Dimethylphenol	0.380	0.369	2.9	82	0.00	5.83
28	P	bis(2-Chloroethoxy)methan	0.417	0.397	4.8	79	0.00	5.91
29		Benzoic Acid	0.289	0.274	5.2	71	-0.04	5.95
30	P	2,4-Dichlorophenol	0.307	0.295	3.9	80	0.00	5.99
31		1,2,4-Trichlorobenzene	0.312	0.301	3.5	80	0.00	6.06
32	P	Naphthalene	1.031	1.002	2.8	80	0.00	6.10
33	P	4-Chloroaniline	0.476	0.468	1.7	81	0.00	6.18

Continuing Calibration Summary

Job Number: FA23189 **Sample:** SX1828-CC1826
Account: FPMRNYR FPM Remediations **Lab FileID:** X039303.D
Project: HM-AZ PBR Holloman AFB; Alamogordo, NM

34		2,6-Dichlorophenol	0.307	0.295	3.9	80	0.00	5.99
35	P	Hexachlorobutadiene	0.175	0.171	2.3	82	0.00	6.27
36	P	Caprolactam	0.124	0.118	4.8	76	-0.02	6.48
37	P	4-Chloro-3-methylphenol	0.332	0.320	3.6	78	0.00	6.61
38	P	2-Methylnaphthalene	0.732	0.711	2.9	81	0.00	6.70
39		1-Methylnaphthalene	0.650	0.634	2.5	81	0.00	6.80
40	P	1,2,4,5-Tetrachlorobenzen	0.305	0.303	0.7	81	0.00	6.89
41	I	Acenaphthene-d10	1.000	1.000	0.0	86	0.00	7.63
42	P	Hexachlorocyclopentadiene	0.358	0.351	2.0	79	0.00	6.91
43	P	2,4,6-Trichlorophenol	0.379	0.362	4.5	81	0.00	6.98
44	P	2,4,5-Trichlorophenol	0.403	0.382	5.2	81	0.00	7.02
45	S	2-Fluorobiphenyl	1.356	1.274	6.0	79	0.00	7.05
46	P	1,1'-Biphenyl	1.524	1.392	8.7	78	0.00	7.12
47	P	2-Chloronaphthalene	1.178	1.100	6.6	80	0.00	7.13
48	P	2-Nitroaniline	0.441	0.415	5.9	76	0.00	7.25
49		p-Dinitrobenzene	0.266	0.256	3.8	77	0.00	7.35
50	P	Dimethylphthalate	1.326	1.281	3.4	81	0.00	7.44
51		m-Dinitrobenzene	0.224	0.220	1.8	82	0.00	7.45
52	P	2,6-Dinitrotoluene	0.311	0.294	5.5	81	0.00	7.50
53		o-Dinitrobenzene	0.276	0.254	8.0	75	0.00	7.56
54	P	Acenaphthylene	1.854	1.754	5.4	81	0.00	7.50
55	P	3-Nitroaniline	0.445	0.432	2.9	80	0.00	7.25
56	P	Acenaphthene	1.193	1.113	6.7	78	0.00	7.66
		----------	Amount	Calc.	%Drift		----------	
57	P	2,4-Dinitrophenol	50.000	44.505	11.0	71	0.00	7.70
58	P	4-Nitrophenol	50.000	47.734	4.5	77	0.00	7.78
		----------	AvgRF	CCRF	%Dev		----------	
59	P	Dibenzofuran	1.665	1.586	4.7	81	0.00	7.80
60	P	2,4-Dinitrotoluene	0.423	0.403	4.7	78	0.00	7.84
61	P	2,3,5,6-Tetrachlorophenol	0.318	0.311	2.2	81	0.00	7.91
62	P	2,3,4,6-Tetrachlorophenol	0.311	0.299	3.9	80	0.00	7.95
63	P	Diethylphthalate	1.369	1.291	5.7	79	0.00	8.06
64	P	Fluorene	1.364	1.280	6.2	80	0.00	8.10
65	P	4-Chlorophenyl-phenylethe	0.617	0.582	5.7	79	0.00	8.11
66	P	4-Nitroaniline	0.332	0.334	-0.6	78	0.00	8.16
67	I	Phenanthrene-d10	1.000	1.000	0.0	85	0.00	8.92
		----------	Amount	Calc.	%Drift		----------	
68	P	4,6-Dinitro-2-methylpheno	50.000	47.191	5.6	78	-0.01	8.20
		----------	AvgRF	CCRF	%Dev		----------	
69	P	Diphenylamine	0.742	0.709	4.4	81	0.00	8.22
70	P	n-Nitrosodiphenylamine	0.619	0.591	4.5	81	0.00	8.22
71		1,2-Diphenylhydrazine	0.906	0.828	8.6	78	0.00	8.24
72	S	2,4,6-Tribromophenol	0.090	0.089	1.1	85	0.00	8.34
73	P	4-Bromophenyl-phenylether	0.209	0.196	6.2	81	0.00	8.53
74	P	Hexachlorobenzene	0.201	0.190	5.5	80	0.00	8.66
75		Simazine	0.127	0.119	6.3	80	-0.01	8.69
76	P	Atrazine	0.248	0.227	8.5	78	0.00	8.72
77	P	Pentachlorophenol	0.130	0.130	0.0	80	0.00	8.82
78	P	Phenanthrene	1.175	1.124	4.3	81	0.00	8.94
79	P	Anthracene	1.172	1.122	4.3	80	0.00	8.98
80	P	Carbazole	1.108	1.083	2.3	80	0.00	9.13
81	P	Di-n-butylphthalate	1.379	1.315	4.6	81	0.00	9.49
82	P	Fluoranthene	1.215	1.163	4.3	80	0.00	9.99

Continuing Calibration Summary

Job Number: FA23189 **Sample:** SX1828-CC1826
Account: FPMRNYR FPM Remediations **Lab FileID:** X039303.D
Project: HM-AZ PBR Holloman AFB; Alamogordo, NM

83	I	Chrysene-d12	1.000	1.000	0.0	83	0.00	11.55
84		Benzidine	0.587	0.592	-0.9	75	0.02	10.12
85	P	Pyrene	1.479	1.418	4.1	82	0.00	10.19
86	S	Terphenyl-d14	0.914	0.909	0.5	83	0.01	10.36
87	P	Butylbenzylphthalate	0.706	0.659	6.7	78	0.00	10.91
88	P	3,3'-Dichlorobenzidine	0.319	0.354	-11.0	84	0.00	11.53
89	P	Benzo[a]anthracene	1.154	1.109	3.9	78	0.00	11.52
90	P	Chrysene	1.095	1.032	5.8	77	0.00	11.58
91	P	bis(2-Ethylhexyl)phthalat	0.935	0.881	5.8	79	0.00	11.70
92	I	Perylene-d12	1.000	1.000	0.0	81	0.00	13.85
93	P	Di-n-octylphthalate	2.049	2.102	-2.6	81	0.00	12.68
94	P	Benzo[b]fluoranthene	1.282	1.267	1.2	78	0.00	13.19
95	P	Benzo[k]fluoranthene	1.315	1.269	3.5	75	0.00	13.23
96	P	Benzo[a]pyrene	1.150	1.181	-2.7	78	-0.01	13.74
		----------	Amount	Calc.	%Drift		----------	
97	P	Indeno[1,2,3-cd]pyrene	50.000	49.454	1.1	80	-0.02	15.89
98	P	Dibenz[a,h]anthracene	50.000	49.382	1.2	79	-0.02	15.96
		----------	AvgRF	CCRF	%Dev		----------	
99	P	Benzo[g,h,i]perylene	0.855	0.843	1.4	75	0.00	16.37

(#) = Out of Range SPCC's out = 0 CCC's out = 0
x039252.D 8270d_03302.m Thu Apr 02 09:03:54 2015

6.7.16

6

Initial Calibration Verification

Job Number: FA23189
Account: FPMRNYR FPM Remediations
Project: HM-AZ PBR Holloman AFB; Alamogordo, NM

Sample: SX1828-ICV1826
Lab FileID: X039304.D

Evaluate Continuing Calibration Report

```
Data File : C:\msdchem\1\DATA\sx1828\x039304.D          Vial: 3
Acq On    :  1 Apr 2015  10:19 am                   Operator: marthav
Sample    : icv1826-50,hexachlorobenzene            Inst    : MSBNA05
Misc      : op55512,sx1828,1000,,,1,1,water         Multiplr: 1.00
MS Integration Params: lscint.p

Method       : C:\msdchem\1\METHODS\8270d_03302.m (RTE Integrator)
Title        : SW846 8270D OR EPA 625
Last Update  : Tue Mar 31 09:29:41 2015
Response via : Multiple Level Calibration

Min. RRF     :   0.000  Min. Rel. Area :  50%  Max. R.T. Dev  0.50min
Max. RRF Dev :  20%     Max. Rel. Area : 200%
```

		Compound	Amount	Calc.	%Drift	Area%	Dev(min)	R.T.
1	I	1,4-Dichlorobenzene-d4	40.000	40.000	0.0	79	0.00	4.99
2		1,4-Dioxane		NA				
3		N-nitrosodimethylamine		NA				
4		Pyridine		NA				
5	S	2-Fluorophenol		NA				
		----------	Amount	Calc.	%Drift			
6	P	Benzaldehyde		NA				
		----------	Amount	Calc.	%Drift			
7		Aniline		NA				
8	P	bis(2-Chloroethyl)ether		NA				
9	S	Phenol-d5		NA				
10	P	Phenol		NA				
11	P	2-Chlorophenol		NA				
12		1,3-Dichlorobenzene		NA				
13		1,4-Dichlorobenzene		NA				
14		1,2-Dichlorobenzene		NA				
15		Benzyl alcohol		NA				
16	P	2-Methylphenol		NA				
		----------	Amount	Calc.	%Drift			
17	P	bis(2-chloroisopropyl)eth		NA				
		----------	Amount	Calc.	%Drift			
18	P	Acetophenone		NA				
19	P	N-Nitroso-di-n-propylamin		NA				
20	P	3&4-Methylphenol		NA				
21	P	Hexachloroethane		NA				
22	I	Naphthalene-d8	40.000	40.000	0.0	79	0.00	6.08
23	S	Nitrobenzene-d5		NA				
24	P	Nitrobenzene		NA				
25	P	Isophorone		NA				
26	P	2-Nitrophenol		NA				
27	P	2,4-Dimethylphenol		NA				
28	P	bis(2-Chloroethoxy)methan		NA				
29		Benzoic Acid		NA				
30	P	2,4-Dichlorophenol		NA				
31		1,2,4-Trichlorobenzene		NA				
32	P	Naphthalene		NA				
33	P	4-Chloroaniline		NA				

Initial Calibration Verification

Job Number: FA23189
Account: FPMRNYR FPM Remediations
Project: HM-AZ PBR Holloman AFB; Alamogordo, NM

Sample: SX1828-ICV1826
Lab FileID: X039304.D

34		2,6-Dichlorophenol		----------NA----------				
35	P	Hexachlorobutadiene		----------NA----------				
36	P	Caprolactam		----------NA----------				
37	P	4-Chloro-3-methylphenol		----------NA----------				
38	P	2-Methylnaphthalene		----------NA----------				
39		1-Methylnaphthalene		----------NA----------				
40	P	1,2,4,5-Tetrachlorobenzen		----------NA----------				
41	I	Acenaphthene-d10	40.000	40.000	0.0	79	0.00	7.63
42	P	Hexachlorocyclopentadiene		----------NA----------				
43	P	2,4,6-Trichlorophenol		----------NA----------				
44	P	2,4,5-Trichlorophenol		----------NA----------				
45	S	2-Fluorobiphenyl		----------NA----------				
46	P	1,1'-Biphenyl		----------NA----------				
47	P	2-Chloronaphthalene		----------NA----------				
48	P	2-Nitroaniline		----------NA----------				
49		p-Dinitrobenzene		----------NA----------				
50	P	Dimethylphthalate		----------NA----------				
51		m-Dinitrobenzene		----------NA----------				
52	P	2,6-Dinitrotoluene		----------NA----------				
53		o-Dinitrobenzene		----------NA----------				
54	P	Acenaphthylene		----------NA----------				
55	P	3-Nitroaniline		----------NA----------				
56	P	Acenaphthene		----------NA----------				
		----------	Amount	Calc.	%Drift	----------		
57	P	2,4-Dinitrophenol		----------NA----------				
58	P	4-Nitrophenol		----------NA----------				
		----------	Amount	Calc.	%Drift	----------		
59	P	Dibenzofuran		----------NA----------				
60	P	2,4-Dinitrotoluene		----------NA----------				
61	P	2,3,5,6-Tetrachlorophenol		----------NA----------				
62	P	2,3,4,6-Tetrachlorophenol		----------NA----------				
63	P	Diethylphthalate		----------NA----------				
64	P	Fluorene		----------NA----------				
65	P	4-Chlorophenyl-phenylethe		----------NA----------				
66	P	4-Nitroaniline		----------NA----------				
67	I	Phenanthrene-d10	40.000	40.000	0.0	74	0.00	8.91
		----------	Amount	Calc.	%Drift	----------		
68	P	4,6-Dinitro-2-methylpheno		----------NA----------				
		----------	Amount	Calc.	%Drift	----------		
69	P	Diphenylamine		----------NA----------				
70	P	n-Nitrosodiphenylamine		----------NA----------				
71		1,2-Diphenylhydrazine		----------NA----------				
72	S	2,4,6-Tribromophenol		----------NA----------				
73	P	4-Bromophenyl-phenylether		----------NA----------				
74	P	Hexachlorobenzene	50.000	42.152	15.7	62	0.00	8.66
75		Simazine		----------NA----------				
76	P	Atrazine		----------NA----------				
77	P	Pentachlorophenol		----------NA----------				
78	P	Phenanthrene		----------NA----------				
79	P	Anthracene		----------NA----------				
80	P	Carbazole		----------NA----------				
81	P	Di-n-butylphthalate		----------NA----------				
82	P	Fluoranthene		----------NA----------				

Initial Calibration Verification

Job Number: FA23189 **Sample:** SX1828-ICV1826
Account: FPMRNYR FPM Remediations **Lab FileID:** X039304.D
Project: HM-AZ PBR Holloman AFB; Alamogordo, NM

```
83 I   Chrysene-d12                40.000  40.000      0.0   63  -0.01   11.53
84     Benzidine                           ----------NA----------
85 P   Pyrene                              ----------NA----------
86 S   Terphenyl-d14                       ----------NA----------
87 P   Butylbenzylphthalate                ----------NA----------
88 P   3,3'-Dichlorobenzidine              ----------NA----------
89 P   Benzo[a]anthracene                  ----------NA----------
90 P   Chrysene                            ----------NA----------
91 P   bis(2-Ethylhexyl)phthalat           ----------NA----------

92 I   Perylene-d12                40.000  40.000      0.0   60  -0.01   13.84
93 P   Di-n-octylphthalate                 ----------NA----------
94 P   Benzo[b]fluoranthene                ----------NA----------
95 P   Benzo[k]fluoranthene                ----------NA----------
96 P   Benzo[a]pyrene                      ----------NA----------

           ----------------------- Amount  Calc.    %Drift   -------------
97 P   Indeno[1,2,3-cd]pyrene              ----------NA----------
98 P   Dibenz[a,h]anthracene               ----------NA----------

           ----------------------- Amount  Calc.    %Drift   -------------
99 P   Benzo[g,h,i]perylene                ----------NA----------
-------------------------------------------------------------------------
-------------------------------------------------------------------------

   (#) = Out of Range                SPCC's out = 0  CCC's out = 0
    x039252.D  8270d_03302.m       Thu Apr 02 13:29:53 2015
```

Continuing Calibration Summary

Job Number: FA23189
Account: FPMRNYR FPM Remediations
Project: HM-AZ PBR Holloman AFB; Alamogordo, NM
Sample: SX1828-ECC1826
Lab FileID: X039327.D

Evaluate Continuing Calibration Report

```
Data File : C:\msdchem\1\DATA\sx1828\x039327.D          Vial: 2
Acq On    :  1 Apr 2015   8:09 pm                   Operator: marthav
Sample    : ecc1826-50                              Inst    : MSBNA05
Misc      : op55512,sx1828,1000,,,1,1,water         Multiplr: 1.00
MS Integration Params: lscint.p

Method       : C:\msdchem\1\METHODS\8270d_03302.m (RTE Integrator)
Title        : SW846 8270D OR EPA 625
Last Update  : Tue Mar 31 09:29:41 2015
Response via : Multiple Level Calibration

Min. RRF     :   0.000  Min. Rel. Area :  50%  Max. R.T. Dev  0.50min
Max. RRF Dev :  50%     Max. Rel. Area : 200%
```

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	111	0.00	4.99
2		1,4-Dioxane	0.628	0.614	2.2	107	0.00	2.41
3		N-nitrosodimethylamine	0.913	0.840	8.0	98	0.00	2.75
4		Pyridine	1.668	1.613	3.3	104	0.00	2.74
5	S	2-Fluorophenol	1.432	1.411	1.5	107	0.00	3.96
		----------	Amount	Calc.	%Drift		----------	
6	P	Benzaldehyde	50.000	38.584	22.8	89	0.00	4.63
		----------	AvgRF	CCRF	%Dev		----------	
7		Aniline	2.117	2.061	2.6	107	0.00	4.76
8	P	bis(2-Chloroethyl)ether	1.375	1.317	4.2	106	0.00	4.81
9	S	Phenol-d5	1.457	1.382	5.1	104	0.00	4.76
10	P	Phenol	1.906	1.818	4.6	105	0.00	4.77
11	P	2-Chlorophenol	1.534	1.489	2.9	107	0.00	4.85
12		1,3-Dichlorobenzene	1.630	1.616	0.9	109	0.00	4.96
13		1,4-Dichlorobenzene	1.630	1.584	2.8	106	0.00	5.01
14		1,2-Dichlorobenzene	1.554	1.538	1.0	108	0.00	5.16
15		Benzyl alcohol	0.984	0.981	0.3	111	0.00	5.14
16	P	2-Methylphenol	1.336	1.288	3.6	104	0.00	5.26
		----------	Amount	Calc.	%Drift		----------	
17	P	bis(2-chloroisopropyl)eth	50.000	40.402	19.2	94	0.00	5.27
		----------	AvgRF	CCRF	%Dev		----------	
18	P	Acetophenone	2.020	1.849	8.5	101	0.00	5.36
19	P	N-Nitroso-di-n-propylamin	0.790	0.675	14.6	88	0.00	5.39
20	P	3&4-Methylphenol	1.402	1.345	4.1	105	0.00	5.39
21	P	Hexachloroethane	0.668	0.653	2.2	107	0.00	5.43
22	I	Naphthalene-d8	1.000	1.000	0.0	107	0.00	6.09
23	S	Nitrobenzene-d5	0.424	0.418	1.4	107	0.00	5.49
24	P	Nitrobenzene	0.401	0.392	2.2	106	0.00	5.51
25	P	Isophorone	0.734	0.705	4.0	104	0.00	5.71
26	P	2-Nitrophenol	0.208	0.209	-0.5	107	0.00	5.78
27	P	2,4-Dimethylphenol	0.380	0.364	4.2	105	0.00	5.83
28	P	bis(2-Chloroethoxy)methan	0.417	0.403	3.4	105	0.00	5.91
29		Benzoic Acid	0.289	0.286	1.0	97	-0.02	5.97
30	P	2,4-Dichlorophenol	0.307	0.301	2.0	107	0.00	5.99
31		1,2,4-Trichlorobenzene	0.312	0.315	-1.0	109	0.00	6.06
32	P	Naphthalene	1.031	1.012	1.8	105	0.00	6.11
33	P	4-Chloroaniline	0.476	0.469	1.5	106	0.00	6.18

Continuing Calibration Summary

Job Number: FA23189 **Sample:** SX1828-ECC1826
Account: FPMRNYR FPM Remediations **Lab FileID:** X039327.D
Project: HM-AZ PBR Holloman AFB; Alamogordo, NM

34		2,6-Dichlorophenol	0.307	0.301	2.0	107	0.00	5.99
35	P	Hexachlorobutadiene	0.175	0.174	0.6	108	0.00	6.27
36	P	Caprolactam	0.124	0.122	1.6	103	-0.01	6.49
37	P	4-Chloro-3-methylphenol	0.332	0.327	1.5	104	0.00	6.62
38	P	2-Methylnaphthalene	0.732	0.719	1.8	107	0.00	6.71
39		1-Methylnaphthalene	0.650	0.629	3.2	105	0.00	6.80
40	P	1,2,4,5-Tetrachlorobenzen	0.305	0.312	-2.3	109	0.00	6.89
41	I	Acenaphthene-d10	1.000	1.000	0.0	114	0.00	7.64
42	P	Hexachlorocyclopentadiene	0.358	0.287	19.8	87	0.00	6.91
43	P	2,4,6-Trichlorophenol	0.379	0.368	2.9	109	0.00	6.98
44	P	2,4,5-Trichlorophenol	0.403	0.386	4.2	109	0.00	7.02
45	S	2-Fluorobiphenyl	1.356	1.260	7.1	105	0.00	7.05
46	P	1,1'-Biphenyl	1.524	1.370	10.1	102	0.00	7.12
47	P	2-Chloronaphthalene	1.178	1.086	7.8	105	0.00	7.13
48	P	2-Nitroaniline	0.441	0.418	5.2	102	0.00	7.25
49		p-Dinitrobenzene	0.266	0.263	1.1	105	0.00	7.35
50	P	Dimethylphthalate	1.326	1.260	5.0	107	0.00	7.45
51		m-Dinitrobenzene	0.224	0.225	-0.4	112	0.00	7.45
52	P	2,6-Dinitrotoluene	0.311	0.301	3.2	110	0.00	7.50
53		o-Dinitrobenzene	0.276	0.257	6.9	102	0.00	7.56
54	P	Acenaphthylene	1.854	1.711	7.7	105	0.00	7.50
55	P	3-Nitroaniline	0.445	0.438	1.6	108	0.00	7.25
56	P	Acenaphthene	1.193	1.131	5.2	106	0.00	7.66
		----------	Amount	Calc.	%Drift	----------		
57	P	2,4-Dinitrophenol	50.000	40.536	18.9	86	0.00	7.70
58	P	4-Nitrophenol	50.000	49.039	1.9	106	0.00	7.78
		----------	AvgRF	CCRF	%Dev	----------		
59	P	Dibenzofuran	1.665	1.567	5.9	106	0.00	7.80
60	P	2,4-Dinitrotoluene	0.423	0.416	1.7	108	0.00	7.84
61	P	2,3,5,6-Tetrachlorophenol	0.318	0.317	0.3	110	0.00	7.91
62	P	2,3,4,6-Tetrachlorophenol	0.311	0.304	2.3	108	0.00	7.95
63	P	Diethylphthalate	1.369	1.293	5.6	106	0.00	8.07
64	P	Fluorene	1.364	1.274	6.6	106	0.00	8.11
65	P	4-Chlorophenyl-phenylethe	0.617	0.607	1.6	109	0.00	8.11
66	P	4-Nitroaniline	0.332	0.328	1.2	102	0.00	8.17
67	I	Phenanthrene-d10	1.000	1.000	0.0	115	0.00	8.92
		----------	Amount	Calc.	%Drift	----------		
68	P	4,6-Dinitro-2-methylpheno	50.000	43.055	13.9	96	0.00	8.20
		----------	AvgRF	CCRF	%Dev	----------		
69	P	Diphenylamine	0.742	0.681	8.2	105	0.00	8.22
70	P	n-Nitrosodiphenylamine	0.619	0.568	8.2	105	0.00	8.22
71		1,2-Diphenylhydrazine	0.906	0.821	9.4	104	0.00	8.24
72	S	2,4,6-Tribromophenol	0.090	0.093	-3.3	121	0.00	8.34
73	P	4-Bromophenyl-phenylether	0.209	0.209	0.0	116	0.00	8.53
74	P	Hexachlorobenzene	0.201	0.200	0.5	115	0.00	8.66
75		Simazine	0.127	0.119	6.3	108	0.00	8.70
76	P	Atrazine	0.248	0.218	12.1	100	0.00	8.73
77	P	Pentachlorophenol	0.130	0.136	-4.6	114	0.00	8.82
78	P	Phenanthrene	1.175	1.089	7.3	106	0.00	8.94
79	P	Anthracene	1.172	1.097	6.4	105	0.00	8.98
80	P	Carbazole	1.108	1.040	6.1	104	0.00	9.13
81	P	Di-n-butylphthalate	1.379	1.271	7.8	106	0.00	9.49
82	P	Fluoranthene	1.215	1.169	3.8	109	0.00	10.00

Continuing Calibration Summary

Job Number: FA23189 **Sample:** SX1828-ECC1826
Account: FPMRNYR FPM Remediations **Lab FileID:** X039327.D
Project: HM-AZ PBR Holloman AFB; Alamogordo, NM

83	I	Chrysene-d12	1.000	1.000	0.0	112	0.00	11.55
84		Benzidine	0.587	0.466	20.6	80	0.02	10.12
85	P	Pyrene	1.479	1.395	5.7	110	0.01	10.20
86	S	Terphenyl-d14	0.914	0.890	2.6	110	0.01	10.36
87	P	Butylbenzylphthalate	0.706	0.668	5.4	108	0.01	10.92
88	P	3,3'-Dichlorobenzidine	0.319	0.330	-3.4	106	0.00	11.53
89	P	Benzo[a]anthracene	1.154	1.127	2.3	108	0.00	11.52
90	P	Chrysene	1.095	1.061	3.1	108	0.00	11.59
91	P	bis(2-Ethylhexyl)phthalat	0.935	0.884	5.5	107	0.00	11.71
92	I	Perylene-d12	1.000	1.000	0.0	104	0.00	13.85
93	P	Di-n-octylphthalate	2.049	2.206	-7.7	109	0.01	12.69
94	P	Benzo[b]fluoranthene	1.282	1.371	-6.9	108	0.00	13.19
95	P	Benzo[k]fluoranthene	1.315	1.313	0.2	100	0.00	13.24
96	P	Benzo[a]pyrene	1.150	1.189	-3.4	100	0.00	13.75
		----------	Amount	Calc.	%Drift		----------	
97	P	Indeno[1,2,3-cd]pyrene	50.000	49.786	0.4	103	-0.01	15.90
98	P	Dibenz[a,h]anthracene	50.000	49.770	0.5	103	-0.02	15.97
		----------	AvgRF	CCRF	%Dev		----------	
99	P	Benzo[g,h,i]perylene	0.855	0.833	2.6	94	0.00	16.37

(#) = Out of Range SPCC's out = 0 CCC's out = 0
x039252.D 8270d_03302.m Thu Apr 02 09:58:44 2015

6.7.18

6

Southeast ACCUTEST LABORATORIES

GC/MS Semi-volatiles

Raw Data

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\sx1827\
Data File : x039293.D
Acq On : 31 Mar 2015 10:36 pm
Operator : marthav
Sample : fa23189-1
Misc : op55512,sx1827,30.4,,,1,1,soil
ALS Vial : 22 Sample Multiplier: 1

Quant Time: Apr 01 14:42:33 2015
Quant Method : C:\msdchem\1\METHODS\8270d_03302.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Tue Mar 31 09:29:41 2015
Response via : Initial Calibration

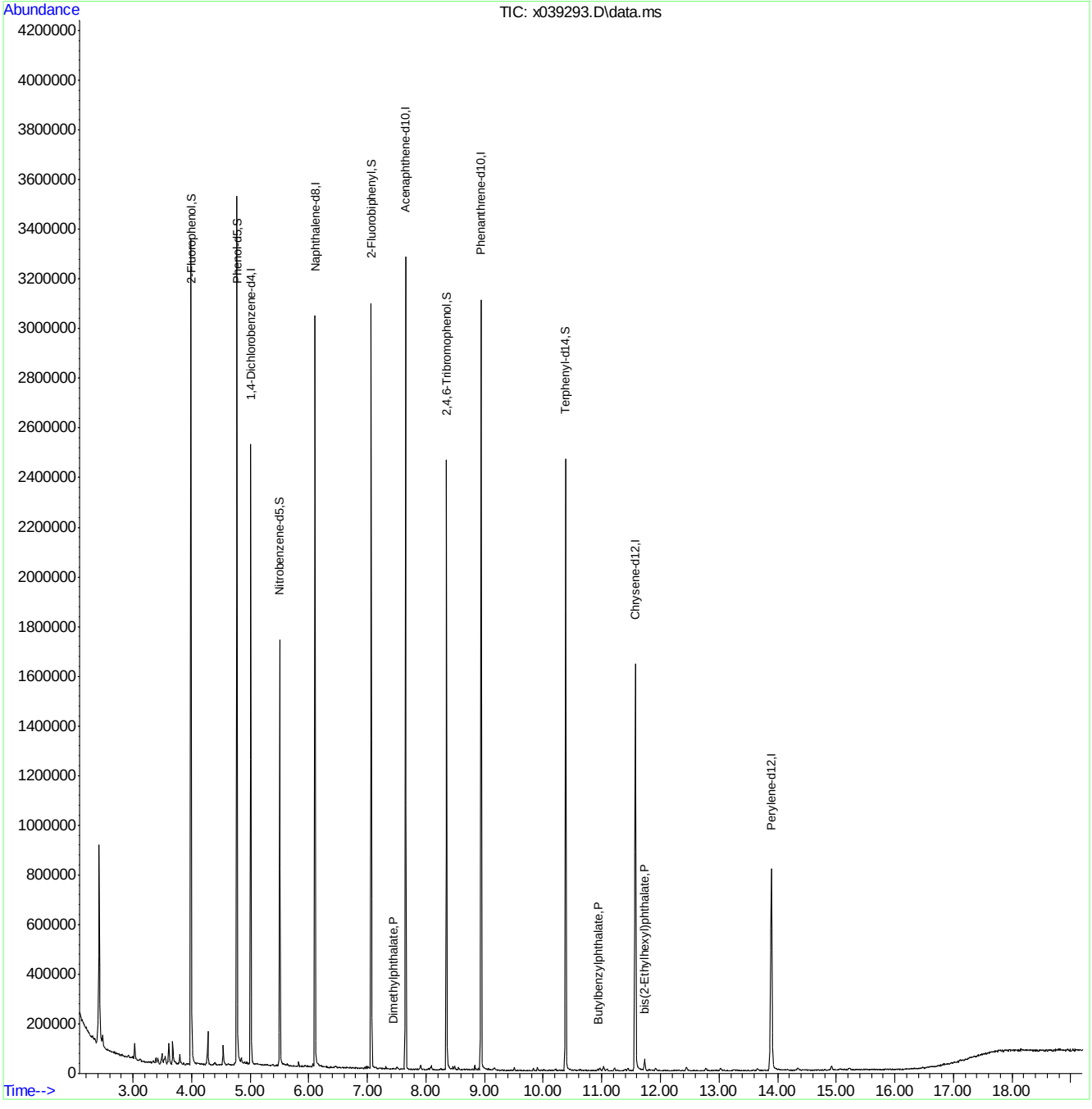
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 1,4-Dichlorobenzene-d4	5.011	152	293289	40.00 ppm	0.00
22) Naphthalene-d8	6.105	136	1120903	40.00 ppm	0.00
41) Acenaphthene-d10	7.653	164	598403	40.00 ppm	0.00
67) Phenanthrene-d10	8.940	188	891590	40.00 ppm	0.00
83) Chrysene-d12	11.572	240	681029	40.00 ppm	0.00
92) Perylene-d12	13.896	264	457706	40.00 ppm	0.01
System Monitoring Compounds					
5) 2-Fluorophenol	3.988	112	713559	67.96 ppm	0.00
Spiked Amount 100.000	Range 40 - 102		Recovery = 67.96%		
9) Phenol-d5	4.775	99	913442	85.53 ppm	0.00
Spiked Amount 100.000	Range 41 - 100		Recovery = 85.53%		
23) Nitrobenzene-d5	5.505	82	412815	34.77 ppm	0.00
Spiked Amount 50.000	Range 40 - 105		Recovery = 69.54%		
45) 2-Fluorobiphenyl	7.065	172	725312	35.76 ppm	0.00
Spiked Amount 50.000	Range 43 - 107		Recovery = 71.52%		
72) 2,4,6-Tribromophenol	8.352	330	151062	75.43 ppm	0.00
Spiked Amount 100.000	Range 42 - 108		Recovery = 75.43%		
86) Terphenyl-d14	10.384	244	718372	46.16 ppm	0.01
Spiked Amount 50.000	Range 45 - 119		Recovery = 92.32%		
Target Compounds					Qvalue
50) Dimethylphthalate	7.451	163	707	0.04 ppm	73
87) Butylbenzylphthalate	10.935	149	1467	0.12 ppm	94
91) bis(2-Ethylhexyl)phtha...	11.731	149	14674	0.92 ppm	95

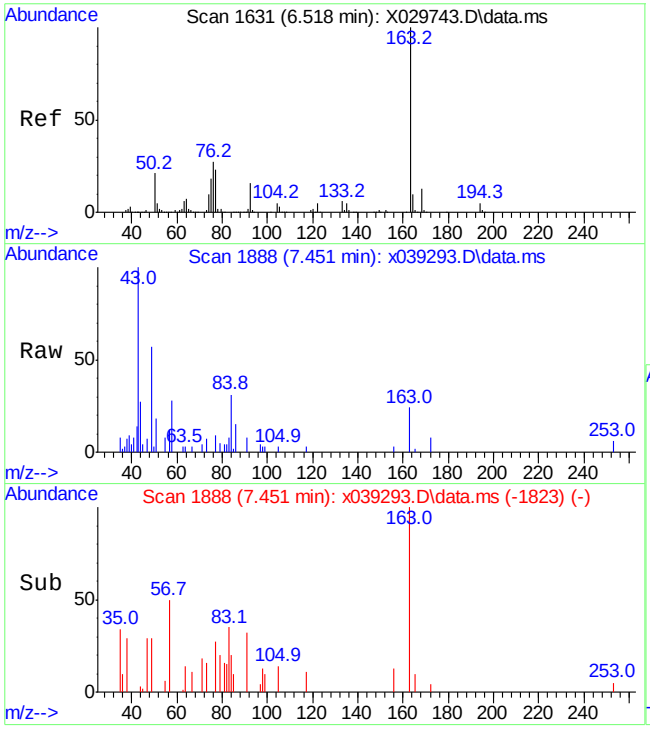
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\sx1827\
Data File : x039293.D
Acq On : 31 Mar 2015 10:36 pm
Operator : marthav
Sample : fa23189-1
Misc : op55512,sx1827,30.4,,,1,1,soil
ALS Vial : 22 Sample Multiplier: 1

Quant Time: Apr 01 14:42:33 2015
Quant Method : C:\msdchem\1\METHODS\8270d_03302.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Tue Mar 31 09:29:41 2015
Response via : Initial Calibration

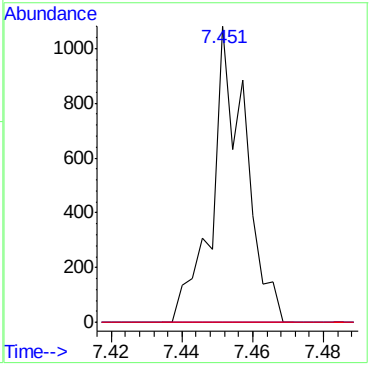


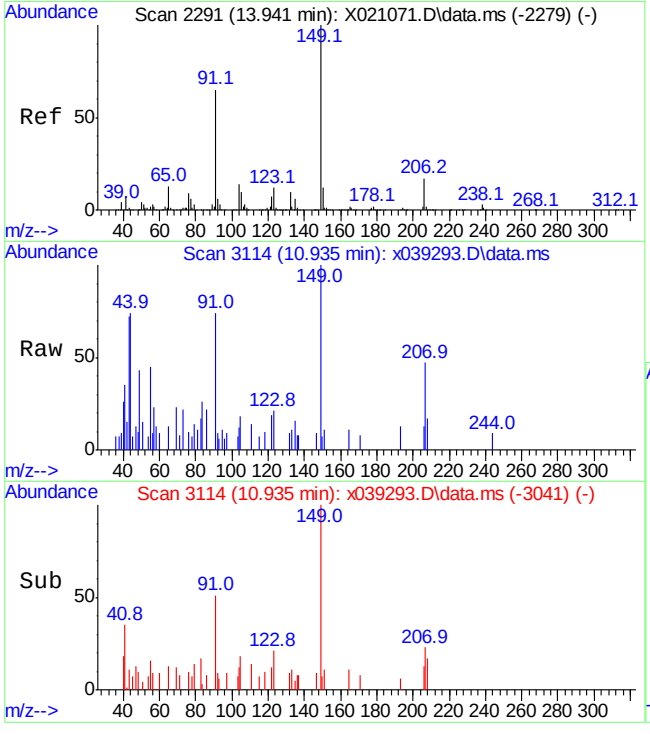


#50
Dimethylphthalate
Concen: 0.04 ppm
RT: 7.451 min Scan# 1888
Delta R.T. -0.015 min
Lab File: x039293.D
Acq: 31 Mar 2015 10:36 pm

Tgt Ion:163 Resp: 707

Ion	Ratio	Lower	Upper
163	100		
194	0.0	0.0	36.8
164	0.0	0.0	42.1

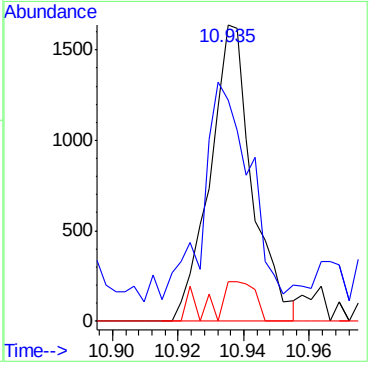


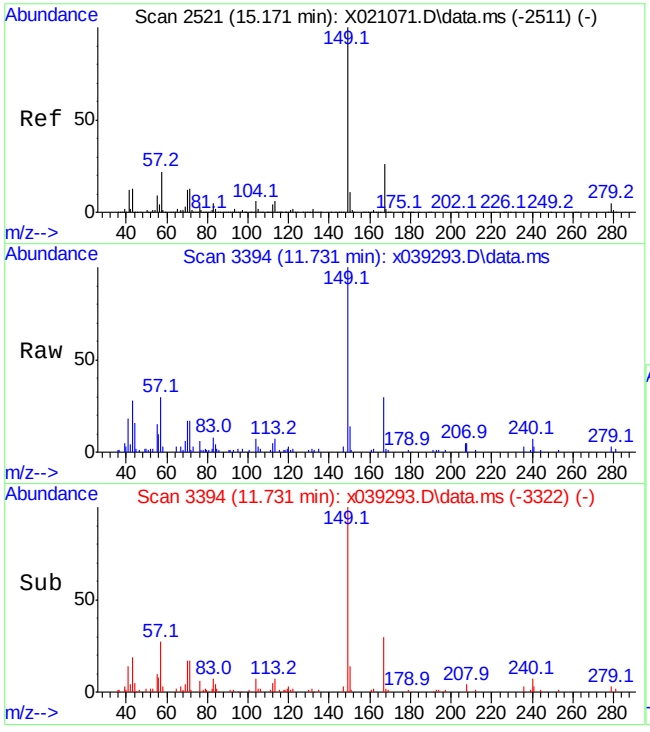


#87
Butylbenzylphthalate
Concen: 0.12 ppm
RT: 10.935 min Scan# 3114
Delta R.T. 0.008 min
Lab File: x039293.D
Acq: 31 Mar 2015 10:36 pm

Tgt Ion:149 Resp: 1467

Ion	Ratio	Lower	Upper
149	100		
91	67.0	40.8	100.8
206	13.9	0.0	49.6

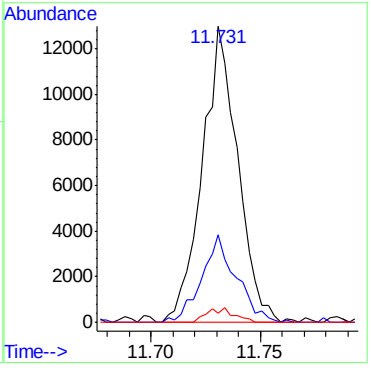




#91
bis(2-Ethylhexyl)phthalate
Concen: 0.92 ppm
RT: 11.731 min Scan# 3394
Delta R.T. 0.006 min
Lab File: x039293.D
Acq: 31 Mar 2015 10:36 pm

Tgt Ion:149 Resp: 14674

Ion	Ratio	Lower	Upper
149	100		
167	31.8	0.0	59.2
279	3.1	0.0	35.6



7.1.1

7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\sx1827\
Data File : x039294.D
Acq On : 31 Mar 2015 11:00 pm
Operator : marthav
Sample : fa23189-3
Misc : op55512,sx1827,29.9,,,1,1,soil
ALS Vial : 23 Sample Multiplier: 1

Quant Time: Apr 01 14:44:47 2015
Quant Method : C:\msdchem\1\METHODS\8270d_03302.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Tue Mar 31 09:29:41 2015
Response via : Initial Calibration

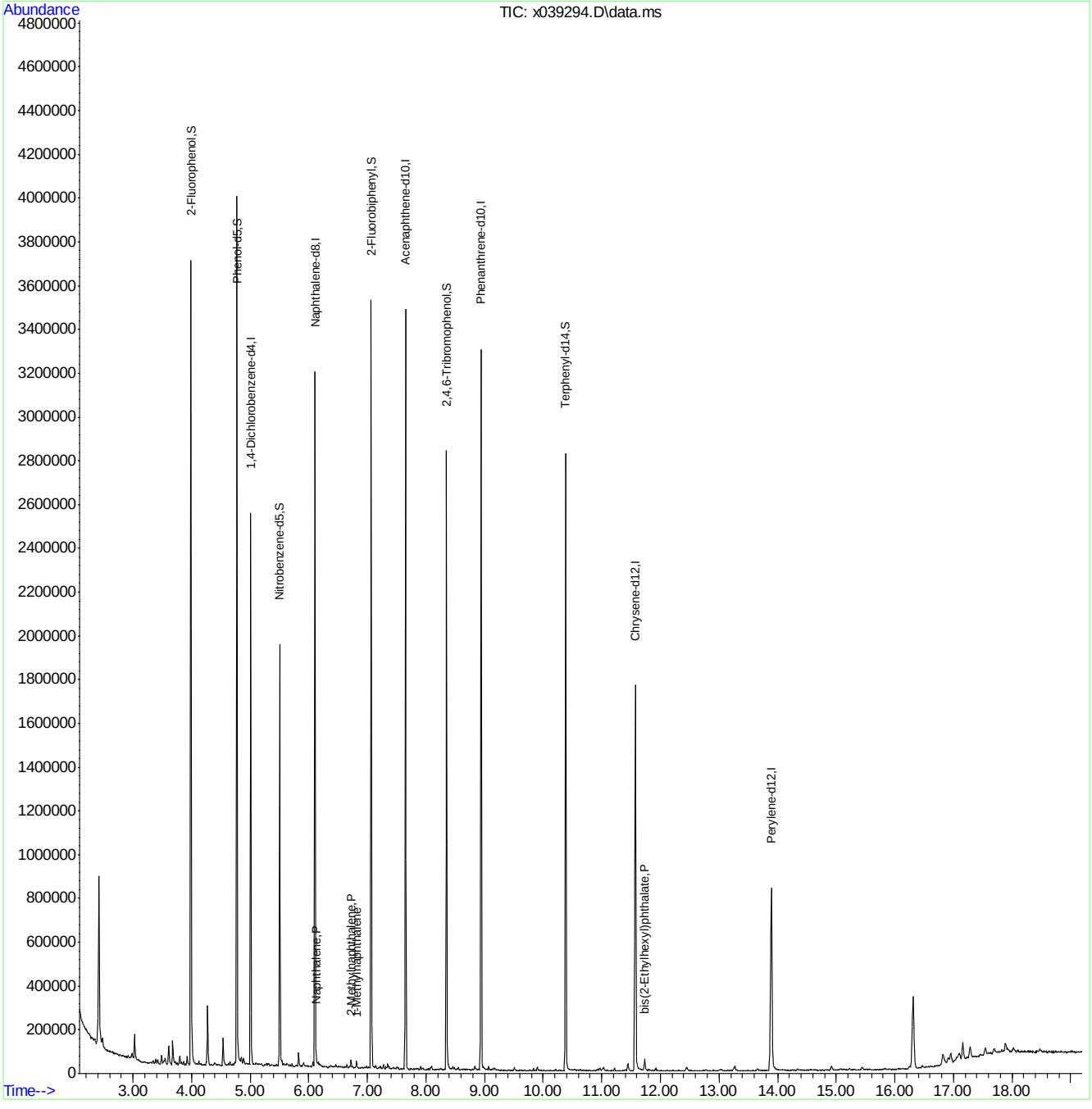
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	5.011	152	304646	40.00	ppm	0.00
22) Naphthalene-d8	6.105	136	1150435	40.00	ppm	0.00
41) Acenaphthene-d10	7.650	164	622217	40.00	ppm	0.00
67) Phenanthrene-d10	8.940	188	925448	40.00	ppm	0.00
83) Chrysene-d12	11.571	240	730886	40.00	ppm	0.00
92) Perylene-d12	13.896	264	489941	40.00	ppm	0.01
System Monitoring Compounds						
5) 2-Fluorophenol	3.988	112	816539	74.86	ppm	0.00
Spiked Amount 100.000	Range 40 - 102		Recovery = 74.86%			
9) Phenol-d5	4.775	99	1066592	96.15	ppm	0.00
Spiked Amount 100.000	Range 41 - 100		Recovery = 96.15%			
23) Nitrobenzene-d5	5.505	82	461910	37.91	ppm	0.00
Spiked Amount 50.000	Range 40 - 105		Recovery = 75.82%			
45) 2-Fluorobiphenyl	7.065	172	845620	40.10	ppm	0.00
Spiked Amount 50.000	Range 43 - 107		Recovery = 80.20%			
72) 2,4,6-Tribromophenol	8.352	330	185736	89.35	ppm	0.00
Spiked Amount 100.000	Range 42 - 108		Recovery = 89.35%			
86) Terphenyl-d14	10.384	244	846141	50.67	ppm	0.01
Spiked Amount 50.000	Range 45 - 119		Recovery = 101.34%			
Target Compounds						Qvalue
32) Naphthalene	6.122	128	6634	0.22	ppm	94
38) 2-Methylnaphthalene	6.724	142	9006	0.43	ppm	91
39) 1-Methylnaphthalene	6.818	142	5863	0.31	ppm	94
91) bis(2-Ethylhexyl)phtha...	11.731	149	18092	1.06	ppm	88

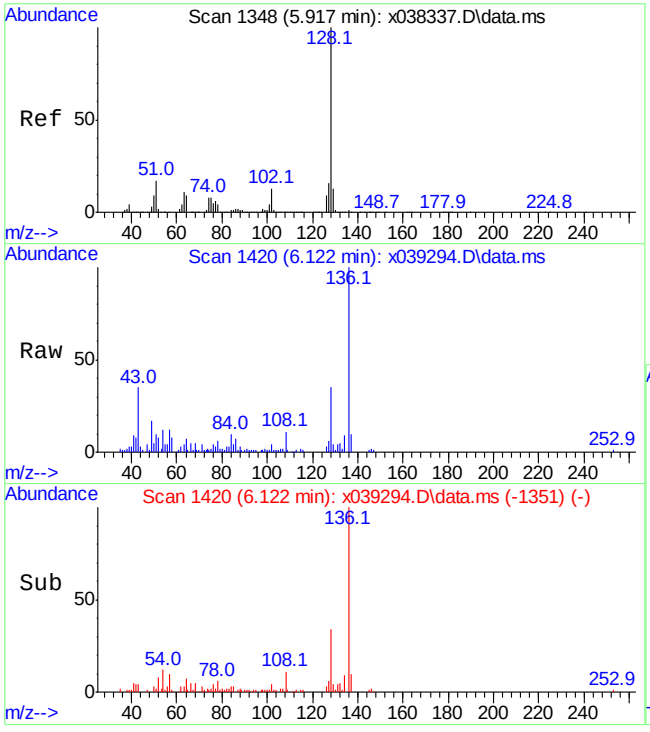
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\sx1827\
Data File : x039294.D
Acq On : 31 Mar 2015 11:00 pm
Operator : marthav
Sample : fa23189-3
Misc : op55512,sx1827,29.9,,,1,1,soil
ALS Vial : 23 Sample Multiplier: 1

Quant Time: Apr 01 14:44:47 2015
Quant Method : C:\msdchem\1\METHODS\8270d_03302.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Tue Mar 31 09:29:41 2015
Response via : Initial Calibration

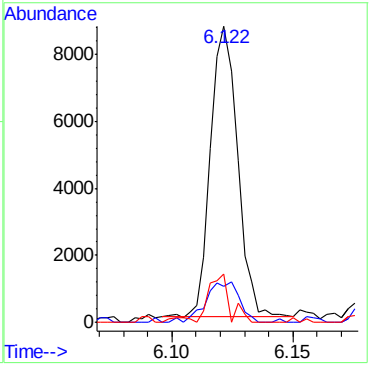


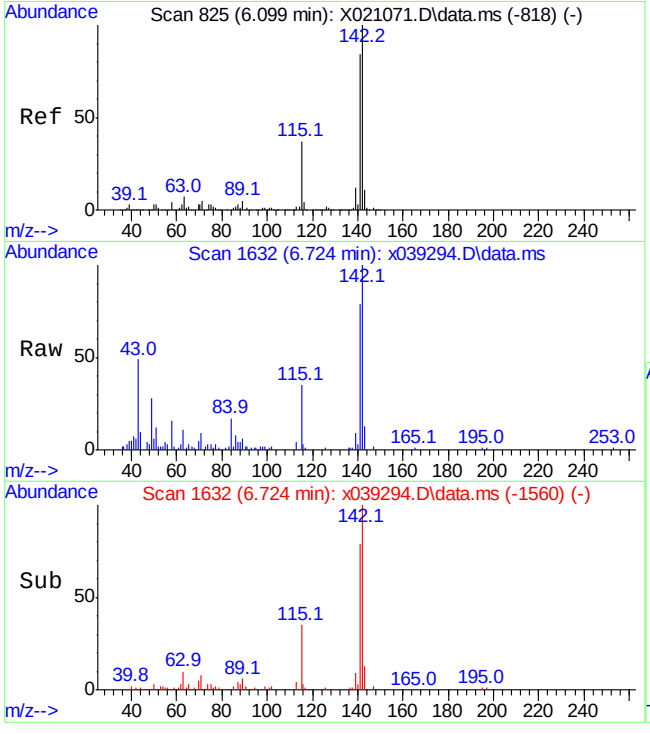


#32
Naphthalene
Concen: 0.22 ppm
RT: 6.122 min Scan# 1420
Delta R.T. -0.003 min
Lab File: x039294.D
Acq: 31 Mar 2015 11:00 pm

Tgt Ion:128 Resp: 6634

Ion	Ratio	Lower	Upper
128	100		
129	12.5	0.0	45.2
127	16.0	0.0	48.9

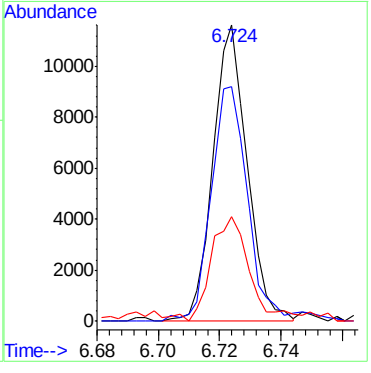


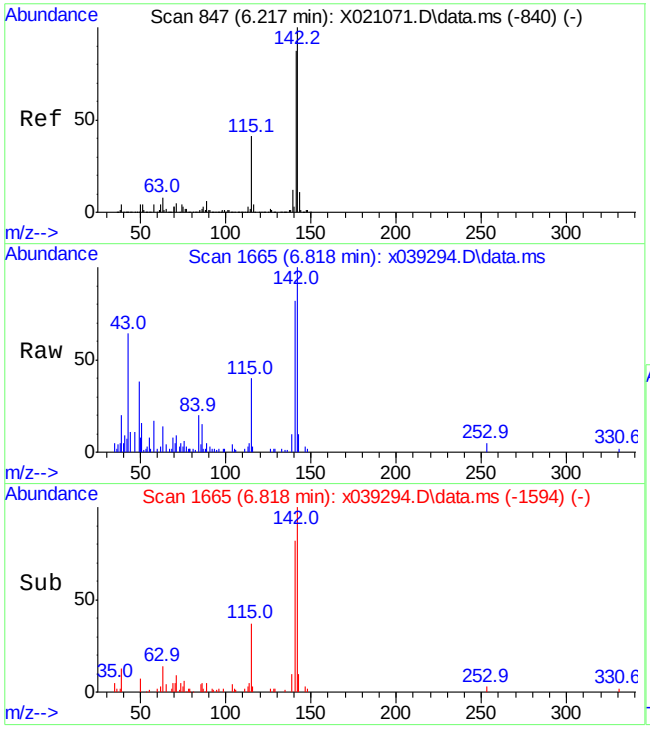


#38
2-Methylnaphthalene
Concen: 0.43 ppm
RT: 6.724 min Scan# 1632
Delta R.T. 0.003 min
Lab File: x039294.D
Acq: 31 Mar 2015 11:00 pm

Tgt Ion:142 Resp: 9006

Ion	Ratio	Lower	Upper
142	100		
141	78.2	57.5	117.5
115	33.5	7.8	67.8

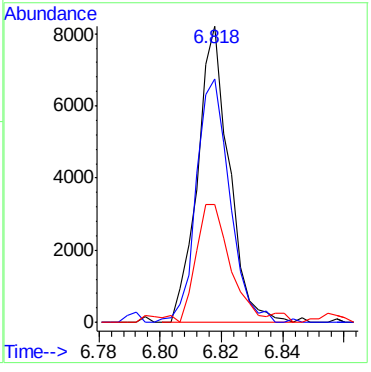


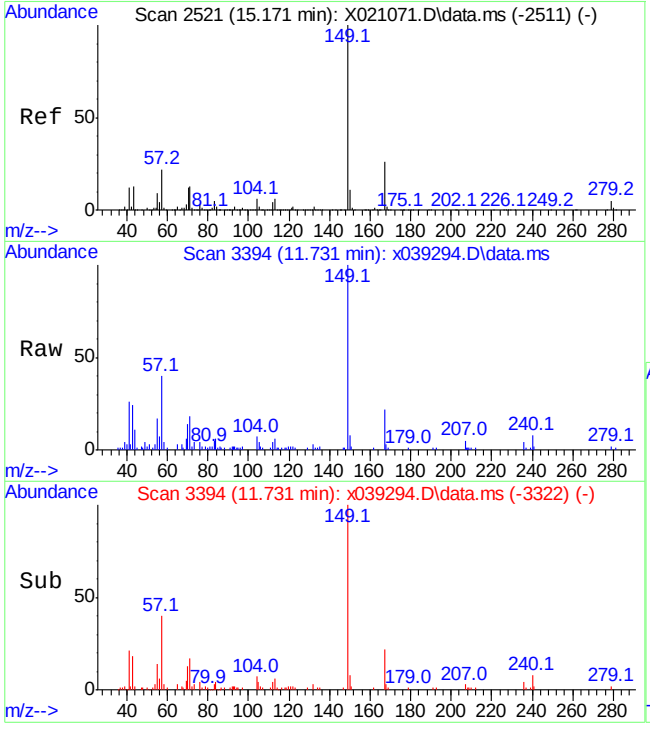


#39
1-Methylnaphthalene
Concen: 0.31 ppm
RT: 6.818 min Scan# 1665
Delta R.T. 0.002 min
Lab File: x039294.D
Acq: 31 Mar 2015 11:00 pm

Tgt Ion:142 Resp: 5863

Ion	Ratio	Lower	Upper
142	100		
141	81.0	59.0	119.0
115	38.9	8.3	68.3

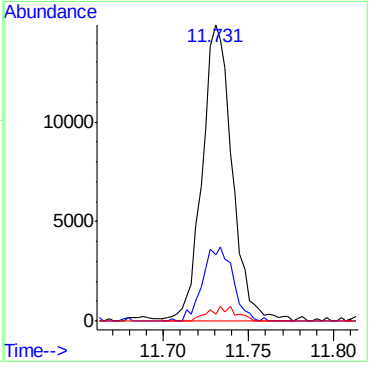




#91
bis(2-Ethylhexyl)phthalate
Concen: 1.06 ppm
RT: 11.731 min Scan# 3394
Delta R.T. 0.006 min
Lab File: x039294.D
Acq: 31 Mar 2015 11:00 pm

Tgt Ion:149 Resp: 18092

Ion	Ratio	Lower	Upper
149	100		
167	22.4	0.0	59.2
279	2.5	0.0	35.6



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\sx1827\
Data File : x039295.D
Acq On : 31 Mar 2015 11:25 pm
Operator : marthav
Sample : fa23189-5
Misc : op55512,sx1827,30.3,,,1,1,soil
ALS Vial : 24 Sample Multiplier: 1

Quant Time: Apr 01 14:50:01 2015
Quant Method : C:\msdchem\1\METHODS\8270d_03302.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Tue Mar 31 09:29:41 2015
Response via : Initial Calibration

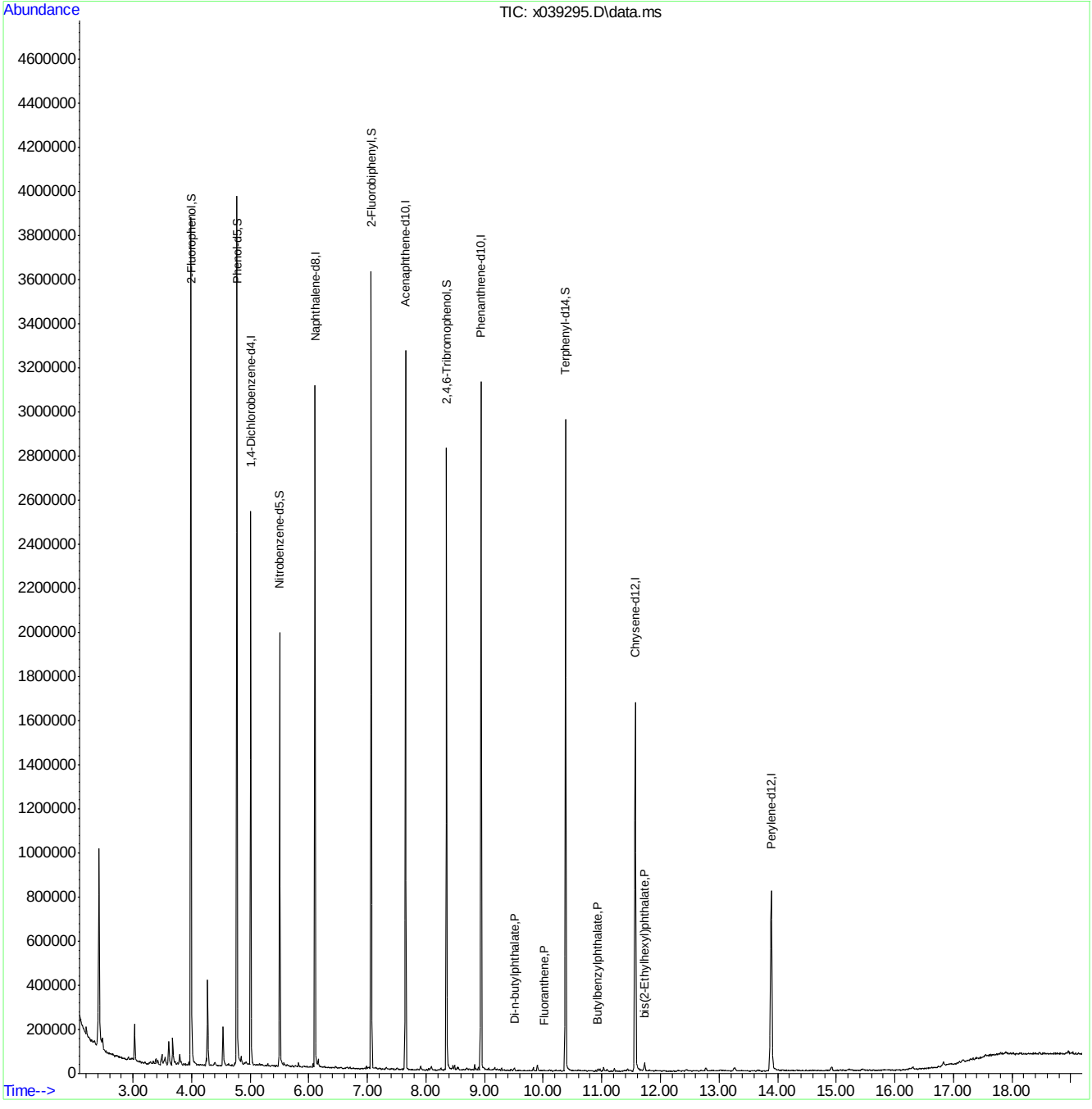
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	5.011	152	296308	40.00	ppm	0.00
22) Naphthalene-d8	6.105	136	1118744	40.00	ppm	0.00
41) Acenaphthene-d10	7.650	164	598464	40.00	ppm	0.00
67) Phenanthrene-d10	8.940	188	900973	40.00	ppm	0.00
83) Chrysene-d12	11.571	240	700662	40.00	ppm	0.00
92) Perylene-d12	13.890	264	460350	40.00	ppm	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	3.988	112	830690	78.30	ppm	0.00
Spiked Amount 100.000	Range 40 - 102		Recovery = 78.30%			
9) Phenol-d5	4.775	99	1068554	99.04	ppm	0.00
Spiked Amount 100.000	Range 41 - 100		Recovery = 99.04%			
23) Nitrobenzene-d5	5.505	82	481395	40.62	ppm	0.00
Spiked Amount 50.000	Range 40 - 105		Recovery = 81.24%			
45) 2-Fluorobiphenyl	7.065	172	855096	42.16	ppm	0.00
Spiked Amount 50.000	Range 43 - 107		Recovery = 84.32%			
72) 2,4,6-Tribromophenol	8.352	330	186265	92.03	ppm	0.00
Spiked Amount 100.000	Range 42 - 108		Recovery = 92.03%			
86) Terphenyl-d14	10.381	244	861277	53.80	ppm	0.01
Spiked Amount 50.000	Range 45 - 119		Recovery = 107.60%			
Target Compounds						Qvalue
81) Di-n-butylphthalate	9.509	149	3884	0.13	ppm	98
82) Fluoranthene	10.012	202	1344	0.05	ppm	84
87) Butylbenzylphthalate	10.932	149	2327	0.19	ppm	91
91) bis(2-Ethylhexyl)phtha...	11.731	149	12425	0.76	ppm	89

(#) = qualifier out of range (m) = manual integration (+) = signals summed

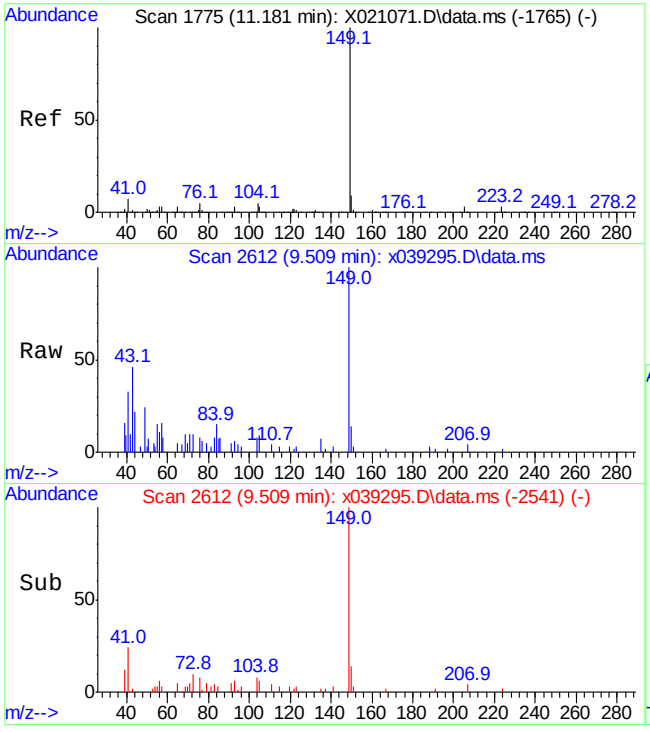
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\sx1827\
Data File : x039295.D
Acq On : 31 Mar 2015 11:25 pm
Operator : marthav
Sample : fa23189-5
Misc : op55512,sx1827,30.3,,,1,1,soil
ALS Vial : 24 Sample Multiplier: 1

Quant Time: Apr 01 14:50:01 2015
Quant Method : C:\msdchem\1\METHODS\8270d_03302.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Tue Mar 31 09:29:41 2015
Response via : Initial Calibration



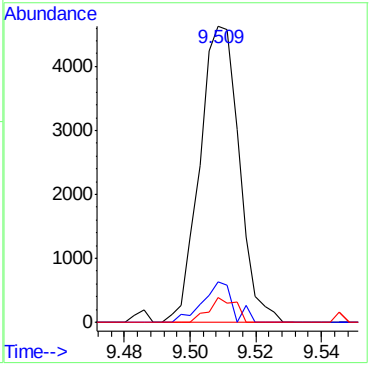
ACCUTEST LABORATORIES FA23189

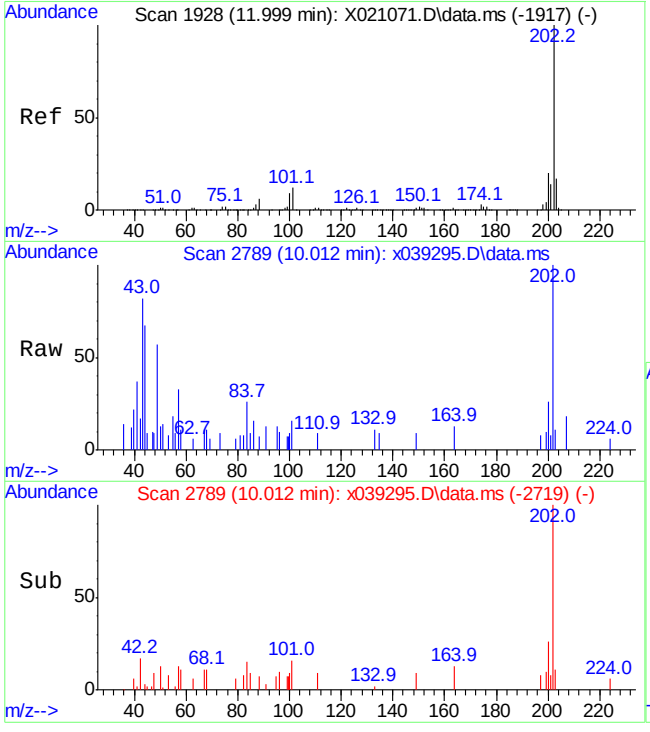


#81
Di-n-butylphthalate
Concen: 0.13 ppm
RT: 9.509 min Scan# 2612
Delta R.T. 0.003 min
Lab File: x039295.D
Acq: 31 Mar 2015 11:25 pm

Tgt Ion:149 Resp: 3884

Ion	Ratio	Lower	Upper
149	100		
150	13.8	0.0	43.5
104	8.2	0.0	36.9

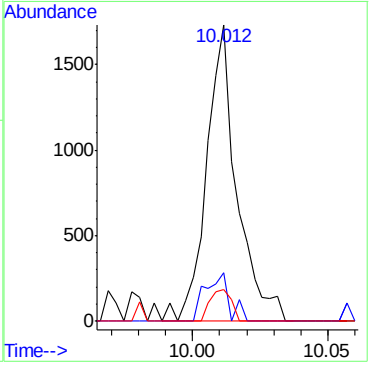


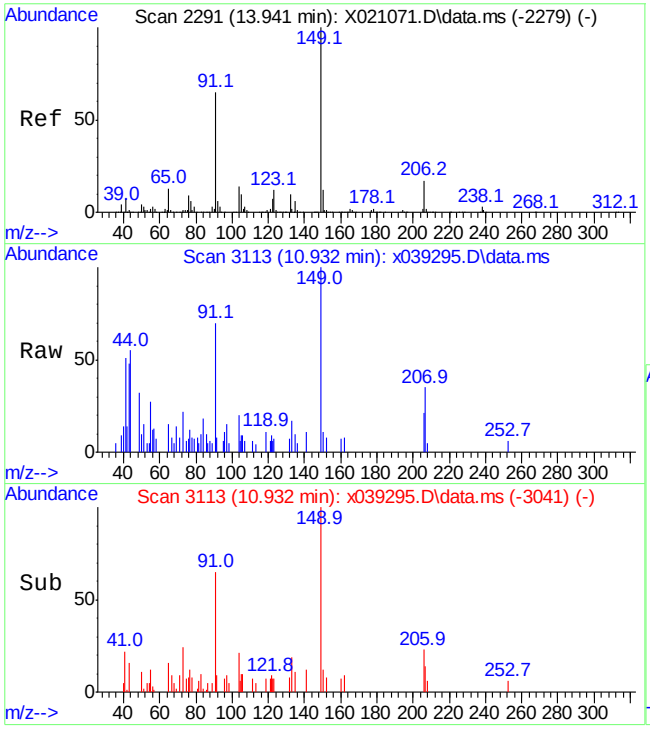


#82
Fluoranthene
Concen: 0.05 ppm
RT: 10.012 min Scan# 2789
Delta R.T. -0.001 min
Lab File: x039295.D
Acq: 31 Mar 2015 11:25 pm

Tgt Ion:202 Resp: 1344

Ion	Ratio	Lower	Upper
202	100		
101	16.3	0.0	48.0
203	10.8	0.0	53.0

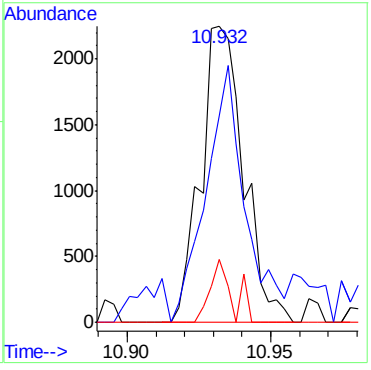


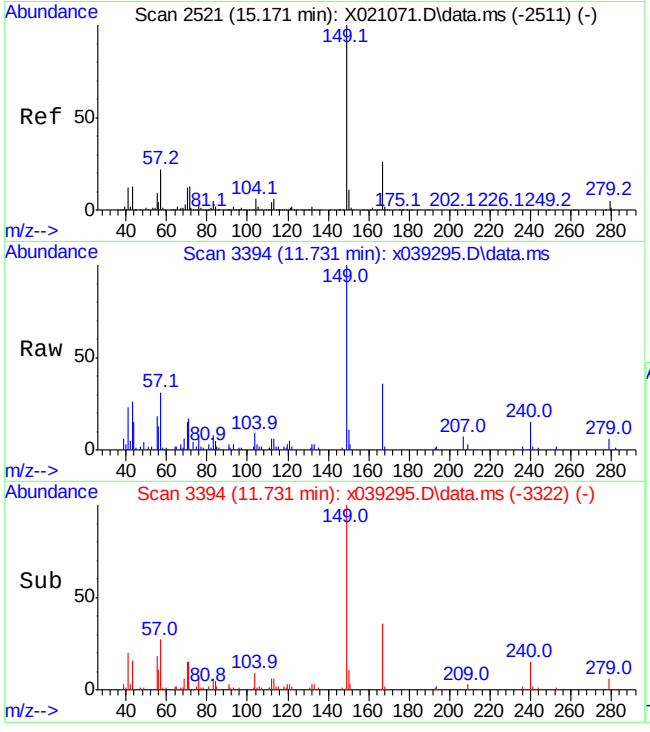


#87
Butylbenzylphthalate
Concen: 0.19 ppm
RT: 10.932 min Scan# 3113
Delta R.T. 0.005 min
Lab File: x039295.D
Acq: 31 Mar 2015 11:25 pm

Tgt Ion:149 Resp: 2327

Ion	Ratio	Lower	Upper
149	100		
91	62.6	40.8	100.8
206	21.3	0.0	49.6

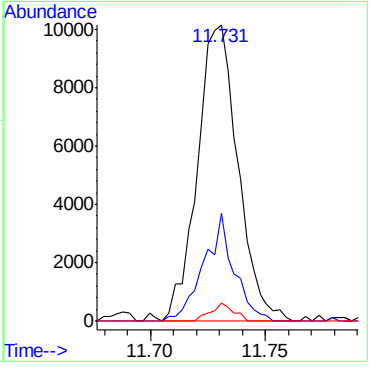




#91
bis(2-Ethylhexyl)phthalate
Concen: 0.76 ppm
RT: 11.731 min Scan# 3394
Delta R.T. 0.006 min
Lab File: x039295.D
Acq: 31 Mar 2015 11:25 pm

Tgt Ion:149 Resp: 12425

Ion	Ratio	Lower	Upper
149	100		
167	36.2	0.0	59.2
279	6.0	0.0	35.6



7.1.3

7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\sx1827\
Data File : x039296.D
Acq On : 31 Mar 2015 11:49 pm
Operator : marthav
Sample : fa23189-7
Misc : op55512,sx1827,30.3,,,1,1,soil
ALS Vial : 25 Sample Multiplier: 1

Quant Time: Apr 01 14:51:06 2015
Quant Method : C:\msdchem\1\METHODS\8270d_03302.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Tue Mar 31 09:29:41 2015
Response via : Initial Calibration

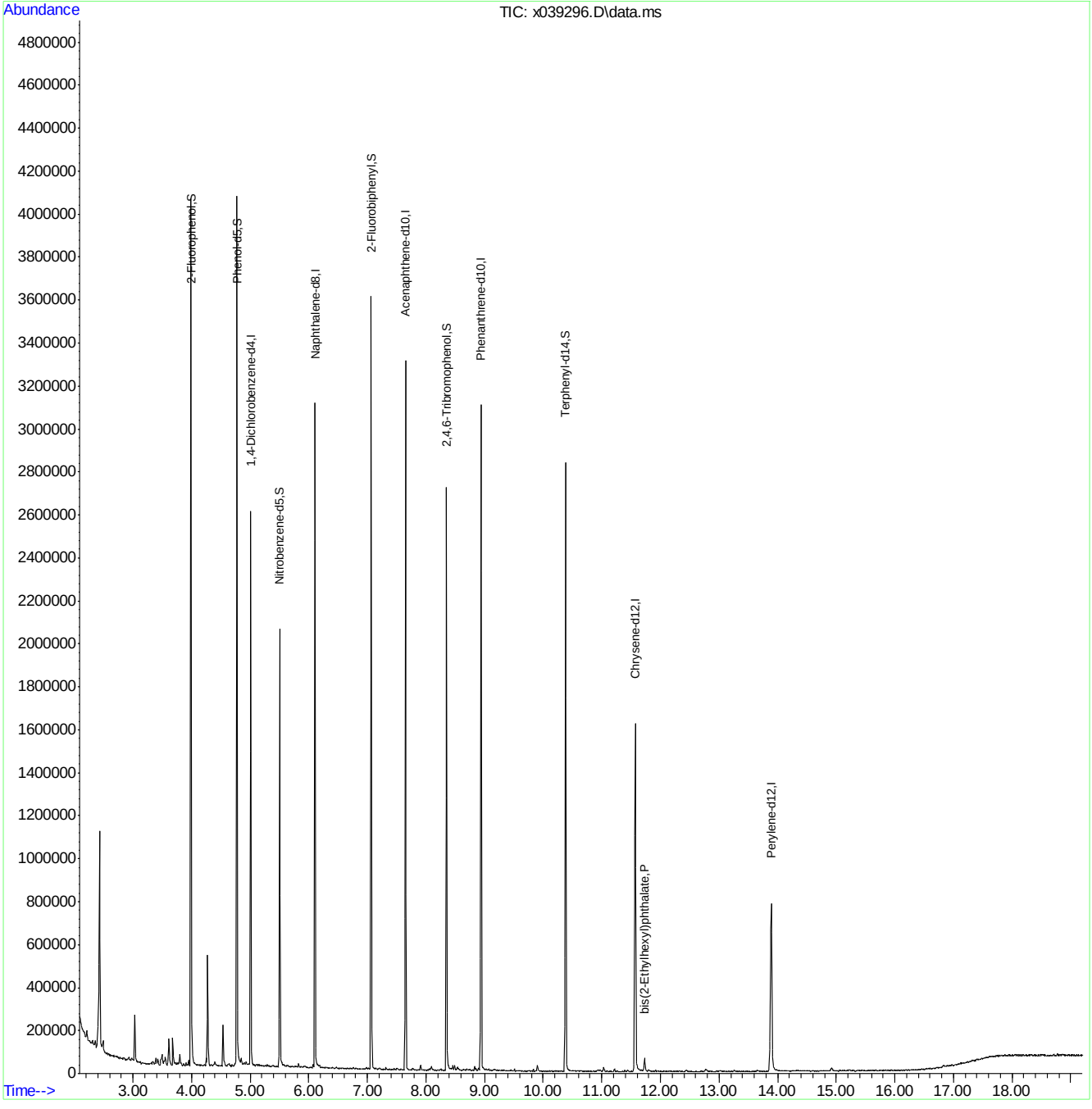
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	5.011	152	296851	40.00	ppm	0.00
22) Naphthalene-d8	6.105	136	1133661	40.00	ppm	0.00
41) Acenaphthene-d10	7.650	164	600096	40.00	ppm	0.00
67) Phenanthrene-d10	8.940	188	893735	40.00	ppm	0.00
83) Chrysene-d12	11.571	240	678423	40.00	ppm	0.00
92) Perylene-d12	13.893	264	446061	40.00	ppm	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	3.988	112	833899	78.46	ppm	0.00
Spiked Amount 100.000	Range 40 - 102		Recovery = 78.46%			
9) Phenol-d5	4.775	99	1075889	99.53	ppm	0.00
Spiked Amount 100.000	Range 41 - 100		Recovery = 99.53%			
23) Nitrobenzene-d5	5.505	82	494023	41.14	ppm	0.00
Spiked Amount 50.000	Range 40 - 105		Recovery = 82.28%			
45) 2-Fluorobiphenyl	7.065	172	838428	41.22	ppm	0.00
Spiked Amount 50.000	Range 43 - 107		Recovery = 82.44%			
72) 2,4,6-Tribromophenol	8.352	330	181920	90.62	ppm	0.00
Spiked Amount 100.000	Range 42 - 108		Recovery = 90.62%			
86) Terphenyl-d14	10.381	244	834917	53.86	ppm	0.01
Spiked Amount 50.000	Range 45 - 119		Recovery = 107.72%			
Target Compounds						Qvalue
91) bis(2-Ethylhexyl)phtha...	11.731	149	18472	1.16	ppm	92

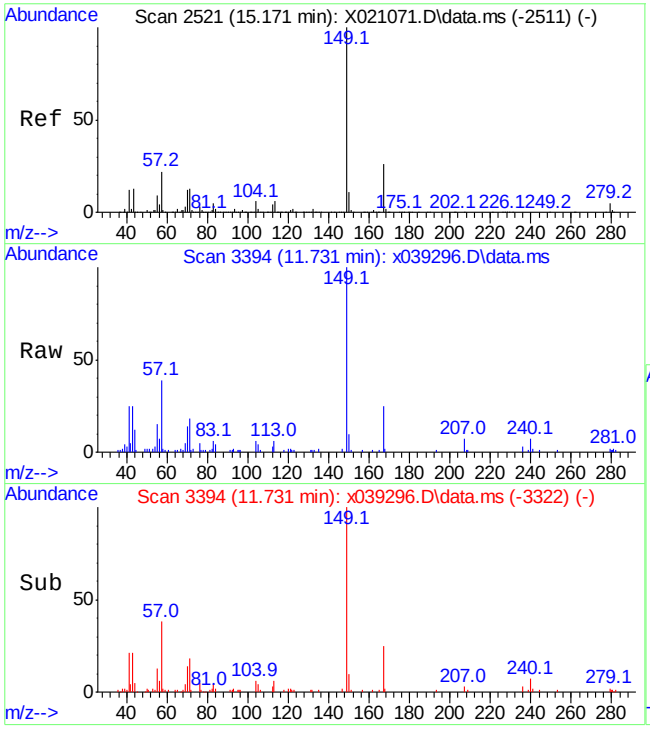
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\sx1827\
Data File : x039296.D
Acq On : 31 Mar 2015 11:49 pm
Operator : marthav
Sample : fa23189-7
Misc : op55512,sx1827,30.3,,,1,1,soil
ALS Vial : 25 Sample Multiplier: 1

Quant Time: Apr 01 14:51:06 2015
Quant Method : C:\msdchem\1\METHODS\8270d_03302.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Tue Mar 31 09:29:41 2015
Response via : Initial Calibration

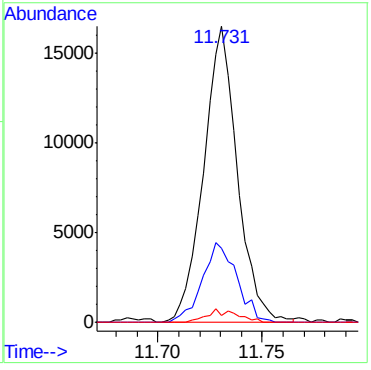




#91
bis(2-Ethylhexyl)phthalate
Concen: 1.16 ppm
RT: 11.731 min Scan# 3394
Delta R.T. 0.006 min
Lab File: x039296.D
Acq: 31 Mar 2015 11:49 pm

Tgt Ion:149 Resp: 18472

Ion	Ratio	Lower	Upper
149	100		
167	25.2	0.0	59.2
279	2.4	0.0	35.6



7.1.4

7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\sx1827\
Data File : x039297.D
Acq On : 1 Apr 2015 12:14 am
Operator : marthav
Sample : fa23189-9
Misc : op55512,sx1827,29.9,,,1,1,soil
ALS Vial : 26 Sample Multiplier: 1

Quant Time: Apr 01 14:52:42 2015
Quant Method : C:\msdchem\1\METHODS\8270d_03302.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Tue Mar 31 09:29:41 2015
Response via : Initial Calibration

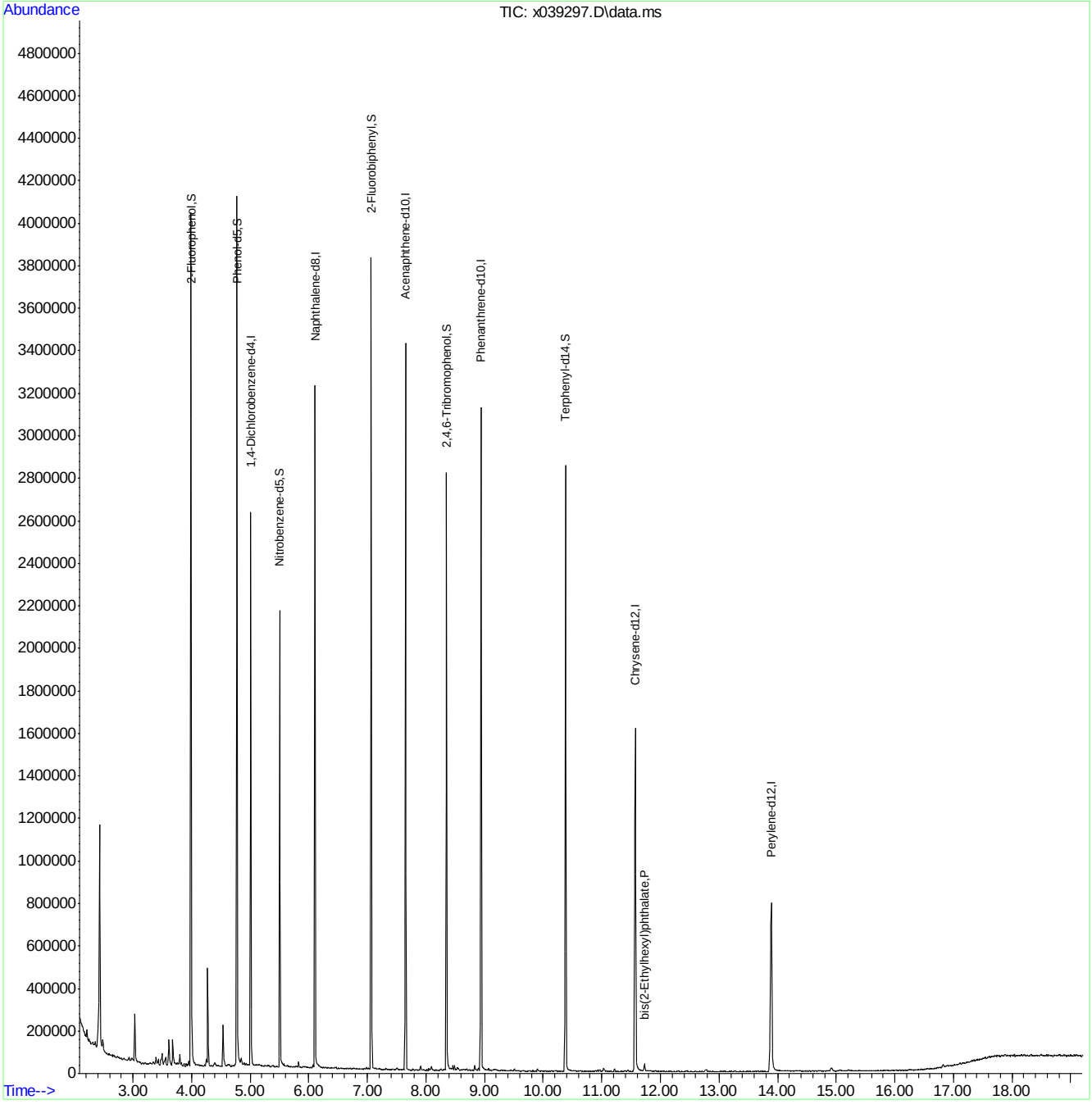
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	5.010	152	305807	40.00	ppm	0.00
22) Naphthalene-d8	6.104	136	1172754	40.00	ppm	0.00
41) Acenaphthene-d10	7.650	164	634569	40.00	ppm	0.00
67) Phenanthrene-d10	8.940	188	930105	40.00	ppm	0.00
83) Chrysene-d12	11.571	240	698765	40.00	ppm	0.00
92) Perylene-d12	13.890	264	469807	40.00	ppm	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	3.988	112	887962	81.10	ppm	0.00
Spiked Amount 100.000	Range 40 - 102		Recovery = 81.10%			
9) Phenol-d5	4.775	99	1114573	100.09	ppm	0.00
Spiked Amount 100.000	Range 41 - 100		Recovery = 100.09%#			
23) Nitrobenzene-d5	5.505	82	511942	41.21	ppm	0.00
Spiked Amount 50.000	Range 40 - 105		Recovery = 82.42%			
45) 2-Fluorobiphenyl	7.065	172	887689	41.27	ppm	0.00
Spiked Amount 50.000	Range 43 - 107		Recovery = 82.54%			
72) 2,4,6-Tribromophenol	8.352	330	184242	88.18	ppm	0.00
Spiked Amount 100.000	Range 42 - 108		Recovery = 88.18%			
86) Terphenyl-d14	10.381	244	823316	51.57	ppm	0.00
Spiked Amount 50.000	Range 45 - 119		Recovery = 103.14%			
Target Compounds						Qvalue
91) bis(2-Ethylhexyl)phtha...	11.728	149	11793	0.72	ppm	97

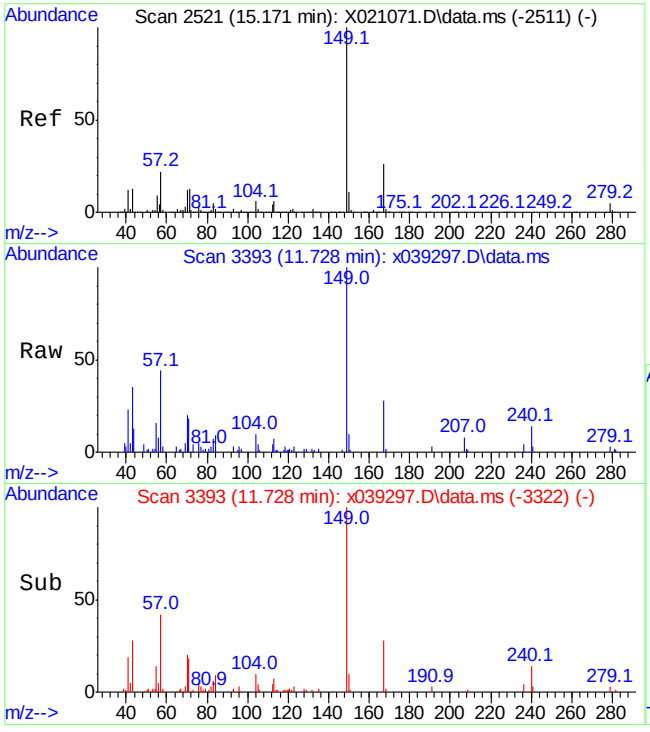
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\sx1827\
Data File : x039297.D
Acq On : 1 Apr 2015 12:14 am
Operator : marthav
Sample : fa23189-9
Misc : op55512,sx1827,29.9,,,1,1,soil
ALS Vial : 26 Sample Multiplier: 1

Quant Time: Apr 01 14:52:42 2015
Quant Method : C:\msdchem\1\METHODS\8270d_03302.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Tue Mar 31 09:29:41 2015
Response via : Initial Calibration

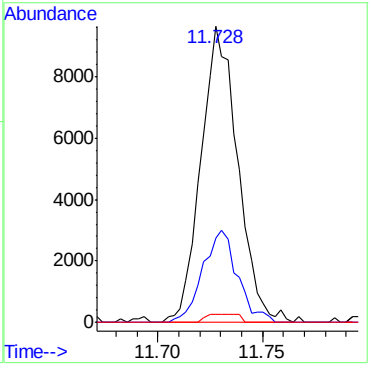




#91
bis(2-Ethylhexyl)phthalate
Concen: 0.72 ppm
RT: 11.728 min Scan# 3393
Delta R.T. 0.003 min
Lab File: x039297.D
Acq: 1 Apr 2015 12:14 am

Tgt Ion:149 Resp: 11793

Ion	Ratio	Lower	Upper
149	100		
167	28.3	0.0	59.2
279	2.5	0.0	35.6



7.1.5

7

Manual Integrations APPROVED (compounds with "m" flag)
Mike Eger
04/02/15 13:25

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\sx1827\
Data File : x039298.D
Acq On : 1 Apr 2015 12:38 am
Operator : marthav
Sample : fa23189-11
Misc : op55512,sx1827,30.5,,,1,1,soil
ALS Vial : 27 Sample Multiplier: 1

Quant Time: Apr 01 14:55:16 2015
Quant Method : C:\msdchem\1\METHODS\8270d_03302.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Tue Mar 31 09:29:41 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	5.011	152	317858	40.00	ppm	0.00
22) Naphthalene-d8	6.105	136	1206457	40.00	ppm	0.00
41) Acenaphthene-d10	7.650	164	621221	40.00	ppm	0.00
67) Phenanthrene-d10	8.938	188	946742	40.00	ppm	0.00
83) Chrysene-d12	11.572	240	709677	40.00	ppm	0.00
92) Perylene-d12	13.893	264	488412	40.00	ppm	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	3.991	112	861298	75.69	ppm	0.00
Spiked Amount 100.000	Range 40 - 102		Recovery = 75.69%			
9) Phenol-d5	4.775	99	1093179	94.45	ppm	0.00
Spiked Amount 100.000	Range 41 - 100		Recovery = 94.45%			
23) Nitrobenzene-d5	5.505	82	490462	38.38	ppm	0.00
Spiked Amount 50.000	Range 40 - 105		Recovery = 76.76%			
45) 2-Fluorobiphenyl	7.065	172	869349	41.29	ppm	0.00
Spiked Amount 50.000	Range 43 - 107		Recovery = 82.58%			
72) 2,4,6-Tribromophenol	8.352	330	189341m	89.03	ppm	0.00
Spiked Amount 100.000	Range 42 - 108		Recovery = 89.03%			
86) Terphenyl-d14	10.381	244	829486	51.15	ppm	0.01
Spiked Amount 50.000	Range 45 - 119		Recovery = 102.30%			

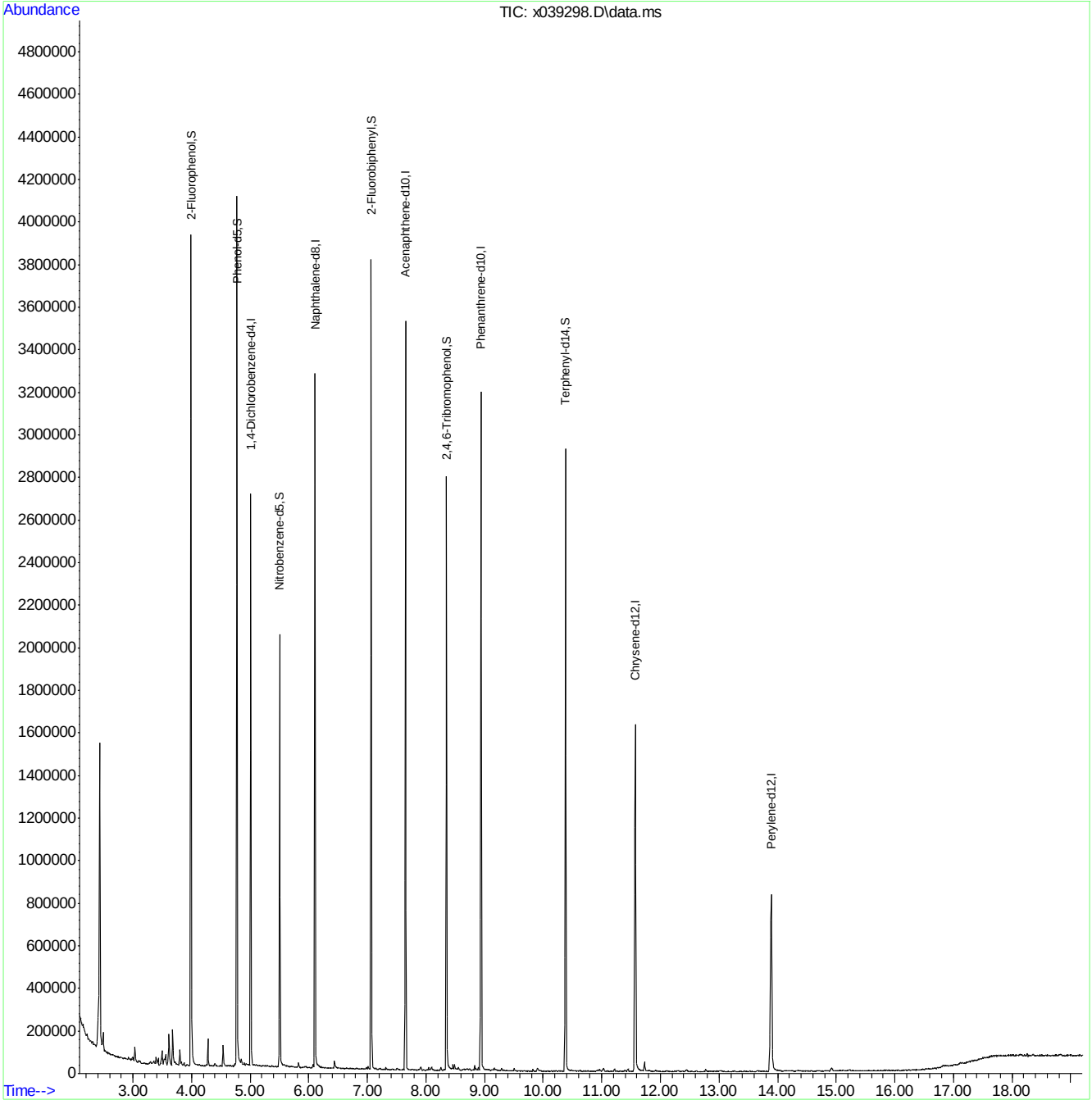
Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\sx1827\
Data File : x039298.D
Acq On : 1 Apr 2015 12:38 am
Operator : marthav
Sample : fa23189-11
Misc : op55512,sx1827,30.5,,,1,1,soil
ALS Vial : 27 Sample Multiplier: 1

Quant Time: Apr 01 14:55:16 2015
Quant Method : C:\msdchem\1\METHODS\8270d_03302.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Tue Mar 31 09:29:41 2015
Response via : Initial Calibration



Manual Integration Approval Summary

Sample Number:	FA23189-11	**Method:**	SW846 8270D
Lab FileID:	X039298.D	**Analyst approved:**	04/01/15 15:26 Martha Valls
Injection Time:	04/01/15 00:38	**Supervisor approved:**	04/02/15 13:25 Mike Eger

Parameter	CAS	Sig#	R.T. (min.)	Reason
2,4,6-Tribromophenol	118-79-6		8.35	Split peak

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\sx1828\
Data File : x039309.D
Acq On : 1 Apr 2015 12:22 pm
Operator : marthav
Sample : fa23189-13
Misc : op55531,sx1828,30.0,,,1,1,soil
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Apr 02 09:11:52 2015
Quant Method : C:\msdchem\1\METHODS\8270d_03302.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Tue Mar 31 09:29:41 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.991	152	231713	40.00	ppm	0.00
22) Naphthalene-d8	6.085	136	919137	40.00	ppm	0.00
41) Acenaphthene-d10	7.628	164	477909	40.00	ppm	0.00
67) Phenanthrene-d10	8.915	188	705321	40.00	ppm	0.00
83) Chrysene-d12	11.535	240	523721	40.00	ppm	-0.01
92) Perylene-d12	13.836	264	347809	40.00	ppm	-0.01
System Monitoring Compounds						
5) 2-Fluorophenol	3.965	112	600609	72.40	ppm	0.00
Spiked Amount 100.000	Range 40 - 102		Recovery = 72.40%			
9) Phenol-d5	4.755	99	761350	90.24	ppm	0.00
Spiked Amount 100.000	Range 41 - 100		Recovery = 90.24%			
23) Nitrobenzene-d5	5.482	82	344123	35.35	ppm	-0.01
Spiked Amount 50.000	Range 40 - 105		Recovery = 70.70%			
45) 2-Fluorobiphenyl	7.042	172	600012	37.04	ppm	-0.01
Spiked Amount 50.000	Range 43 - 107		Recovery = 74.08%			
72) 2,4,6-Tribromophenol	8.327	330	124910	78.84	ppm	-0.02
Spiked Amount 100.000	Range 42 - 108		Recovery = 78.84%			
86) Terphenyl-d14	10.355	244	574734	48.03	ppm	0.00
Spiked Amount 50.000	Range 45 - 119		Recovery = 96.06%			

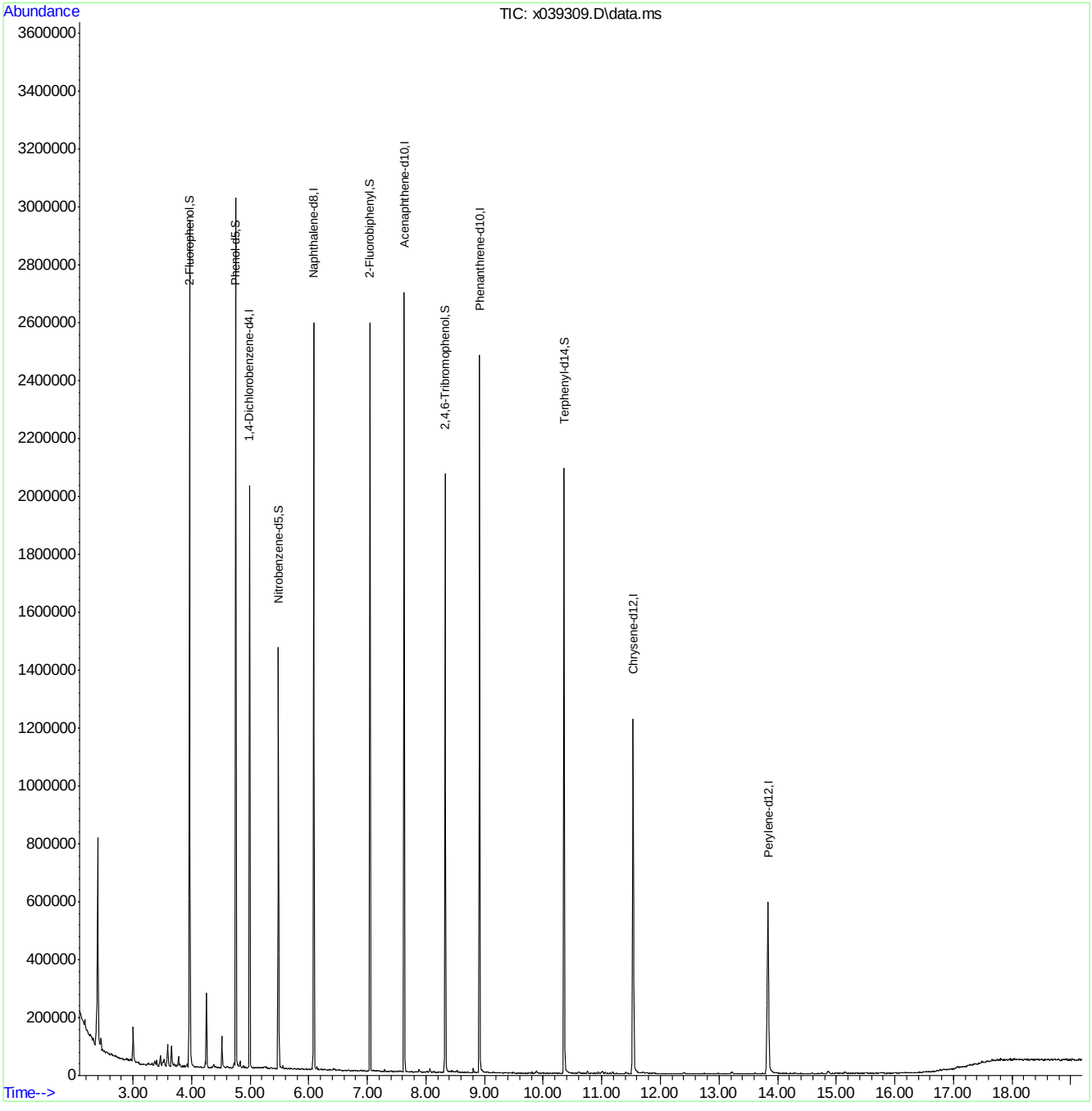
Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\sx1828\
Data File : x039309.D
Acq On : 1 Apr 2015 12:22 pm
Operator : marthav
Sample : fa23189-13
Misc : op55531,sx1828,30.0,,,1,1,soil
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Apr 02 09:11:52 2015
Quant Method : C:\msdchem\1\METHODS\8270d_03302.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Tue Mar 31 09:29:41 2015
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\sx1828\
Data File : x039310.D
Acq On : 1 Apr 2015 12:47 pm
Operator : marthav
Sample : fa23189-14
Misc : op55531,sx1828,30.4,,,1,1,soil
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Apr 02 09:12:43 2015
Quant Method : C:\msdchem\1\METHODS\8270d_03302.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Tue Mar 31 09:29:41 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.991	152	241738	40.00	ppm	0.00
22) Naphthalene-d8	6.085	136	925371	40.00	ppm	0.00
41) Acenaphthene-d10	7.628	164	505035	40.00	ppm	0.00
67) Phenanthrene-d10	8.915	188	739261	40.00	ppm	0.00
83) Chrysene-d12	11.535	240	570674	40.00	ppm	-0.01
92) Perylene-d12	13.836	264	353911	40.00	ppm	-0.01
System Monitoring Compounds						
5) 2-Fluorophenol	3.965	112	600811	69.42	ppm	0.00
Spiked Amount 100.000	Range 40 - 102		Recovery = 69.42%			
9) Phenol-d5	4.755	99	765385	86.95	ppm	0.00
Spiked Amount 100.000	Range 41 - 100		Recovery = 86.95%			
23) Nitrobenzene-d5	5.482	82	347690	35.47	ppm	-0.01
Spiked Amount 50.000	Range 40 - 105		Recovery = 70.94%			
45) 2-Fluorobiphenyl	7.042	172	600812	35.10	ppm	-0.01
Spiked Amount 50.000	Range 43 - 107		Recovery = 70.20%			
72) 2,4,6-Tribromophenol	8.327	330	124848	75.18	ppm	-0.02
Spiked Amount 100.000	Range 42 - 108		Recovery = 75.18%			
86) Terphenyl-d14	10.356	244	639131	49.01	ppm	0.00
Spiked Amount 50.000	Range 45 - 119		Recovery = 98.02%			

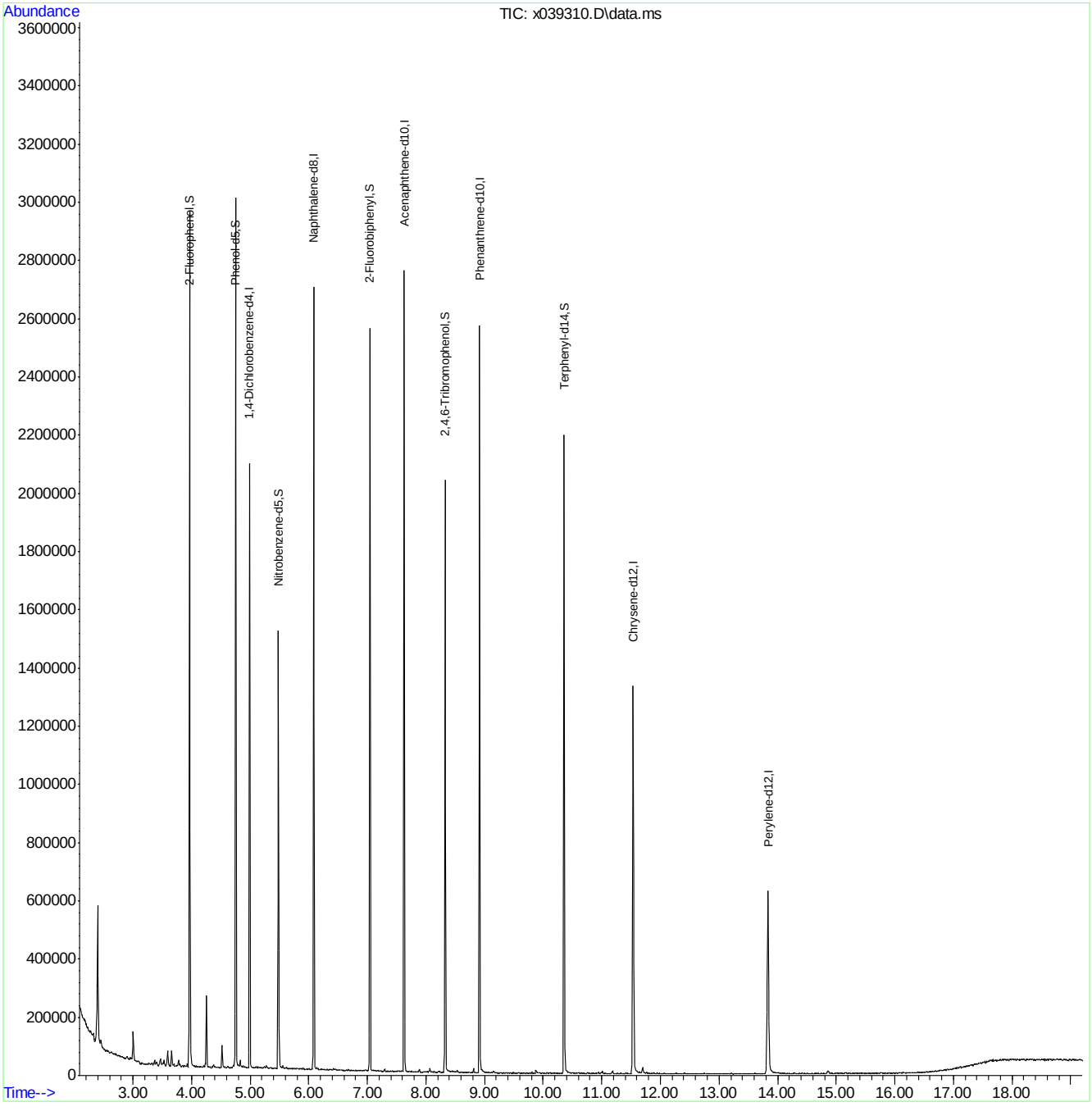
Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\sx1828\
Data File : x039310.D
Acq On : 1 Apr 2015 12:47 pm
Operator : marthav
Sample : fa23189-14
Misc : op55531,sx1828,30.4,,,1,1,soil
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Apr 02 09:12:43 2015
Quant Method : C:\msdchem\1\METHODS\8270d_03302.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Tue Mar 31 09:29:41 2015
Response via : Initial Calibration



8270d_03302.m Thu Apr 02 09:59:18 2015 Page: 2

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\sx1828\
Data File : x039311.D
Acq On : 1 Apr 2015 1:11 pm
Operator : marthav
Sample : fa23189-16
Misc : op55531,sx1828,30.0,,,1,1,soil
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Apr 02 09:13:35 2015
Quant Method : C:\msdchem\1\METHODS\8270d_03302.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Tue Mar 31 09:29:41 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.991	152	247052	40.00	ppm	0.00
22) Naphthalene-d8	6.085	136	956142	40.00	ppm	0.00
41) Acenaphthene-d10	7.628	164	499065	40.00	ppm	0.00
67) Phenanthrene-d10	8.915	188	734581	40.00	ppm	0.00
83) Chrysene-d12	11.535	240	570507	40.00	ppm	-0.01
92) Perylene-d12	13.836	264	358189	40.00	ppm	-0.01
System Monitoring Compounds						
5) 2-Fluorophenol	3.965	112	658963	74.50	ppm	0.00
Spiked Amount 100.000	Range 40 - 102		Recovery = 74.50%			
9) Phenol-d5	4.755	99	848252	94.29	ppm	0.00
Spiked Amount 100.000	Range 41 - 100		Recovery = 94.29%			
23) Nitrobenzene-d5	5.482	82	383203	37.84	ppm	-0.01
Spiked Amount 50.000	Range 40 - 105		Recovery = 75.68%			
45) 2-Fluorobiphenyl	7.042	172	678459	40.11	ppm	-0.01
Spiked Amount 50.000	Range 43 - 107		Recovery = 80.22%			
72) 2,4,6-Tribromophenol	8.327	330	145914	88.43	ppm	-0.02
Spiked Amount 100.000	Range 42 - 108		Recovery = 88.43%			
86) Terphenyl-d14	10.355	244	640159	49.11	ppm	0.00
Spiked Amount 50.000	Range 45 - 119		Recovery = 98.22%			
Target Compounds						Qvalue
91) bis(2-Ethylhexyl)phtha...	11.694	149	4611	0.35	ppm	88

(#) = qualifier out of range (m) = manual integration (+) = signals summed

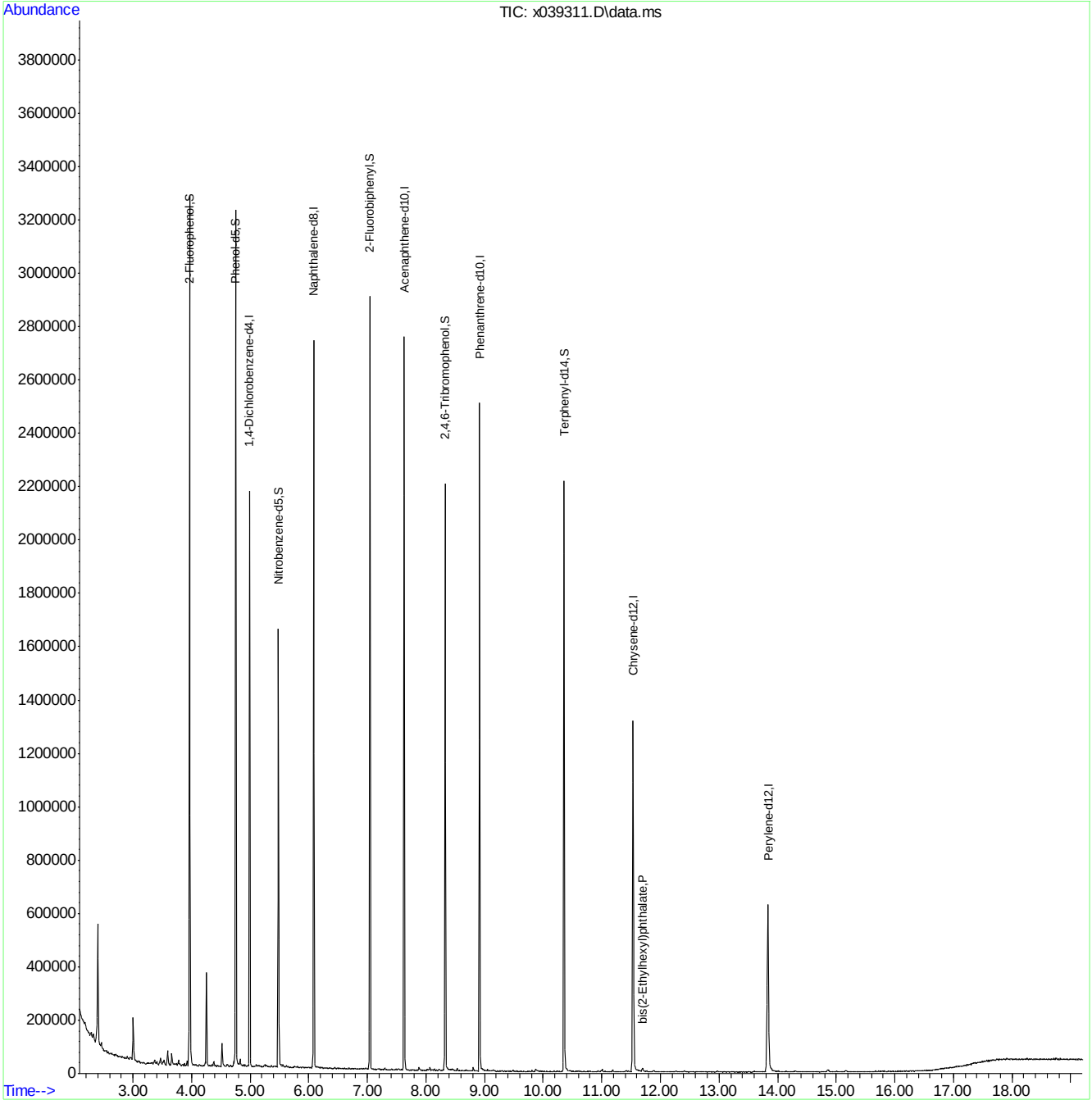
7.1.9

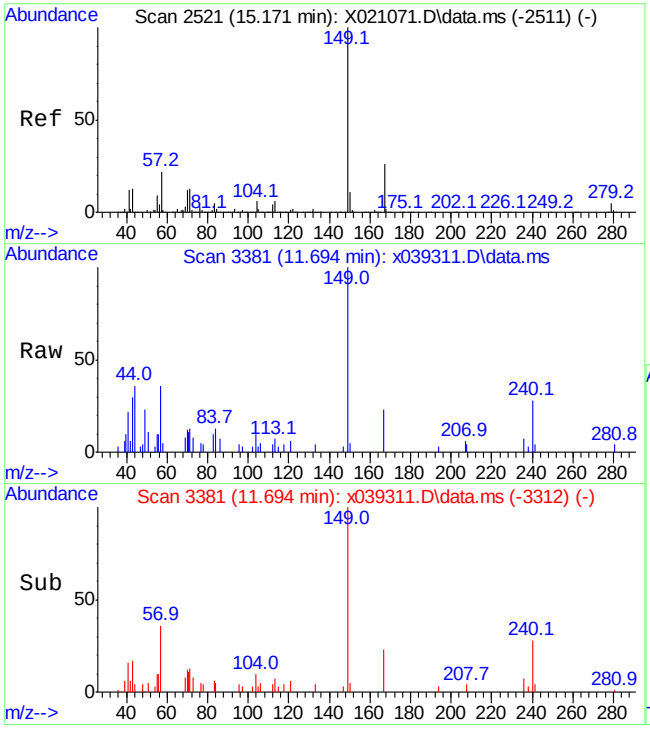
7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\sx1828\
Data File : x039311.D
Acq On : 1 Apr 2015 1:11 pm
Operator : marthav
Sample : fa23189-16
Misc : op55531,sx1828,30.0,,,1,1,soil
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Apr 02 09:13:35 2015
Quant Method : C:\msdchem\1\METHODS\8270d_03302.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Tue Mar 31 09:29:41 2015
Response via : Initial Calibration

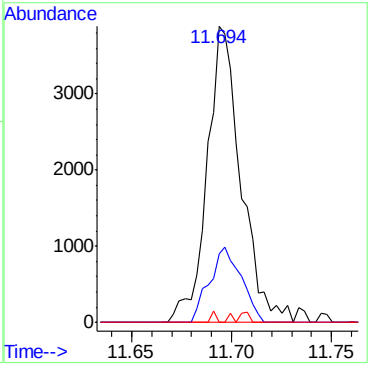




#91
bis(2-Ethylhexyl)phthalate
Concen: 0.35 ppm
RT: 11.694 min Scan# 3381
Delta R.T. -0.005 min
Lab File: x039311.D
Acq: 1 Apr 2015 1:11 pm

Tgt Ion:149 Resp: 4611

Ion	Ratio	Lower	Upper
149	100		
167	23.3	0.0	59.2
279	0.0	0.0	35.6



7.1.9

7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\sx1828\
Data File : x039312.D
Acq On : 1 Apr 2015 1:36 pm
Operator : marthav
Sample : fa23189-18
Misc : op55531,sx1828,30.0,,,1,1,soil
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Apr 02 09:14:56 2015
Quant Method : C:\msdchem\1\METHODS\8270d_03302.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Tue Mar 31 09:29:41 2015
Response via : Initial Calibration

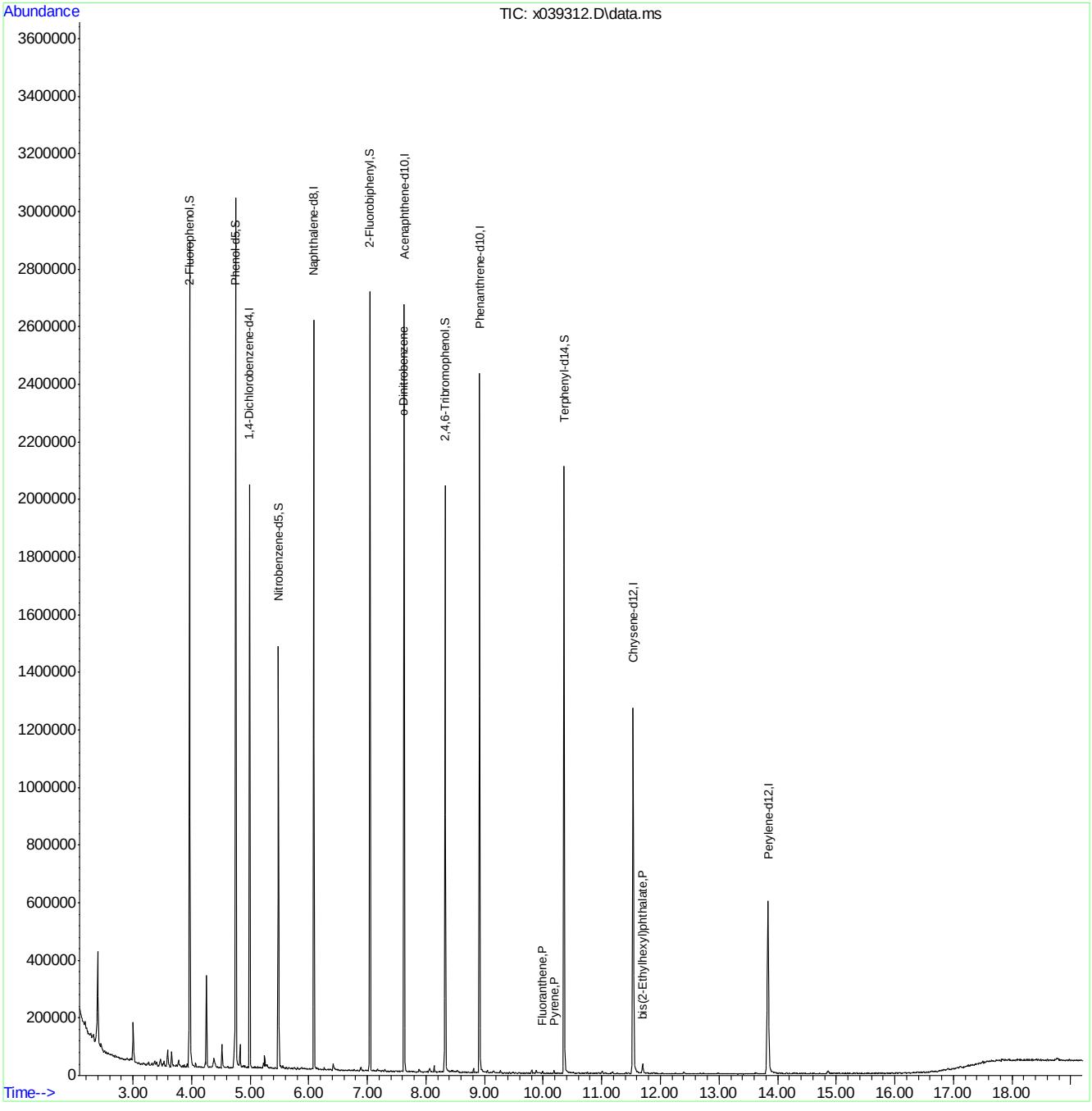
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.991	152	232871	40.00	ppm	0.00
22) Naphthalene-d8	6.085	136	909839	40.00	ppm	0.00
41) Acenaphthene-d10	7.628	164	471024	40.00	ppm	0.00
67) Phenanthrene-d10	8.915	188	692938	40.00	ppm	0.00
83) Chrysene-d12	11.535	240	533939	40.00	ppm	-0.01
92) Perylene-d12	13.839	264	344361	40.00	ppm	-0.01
System Monitoring Compounds						
5) 2-Fluorophenol	3.965	112	601883	72.19	ppm	0.00
Spiked Amount 100.000	Range 40 - 102		Recovery = 72.19%			
9) Phenol-d5	4.755	99	765189	90.24	ppm	0.00
Spiked Amount 100.000	Range 41 - 100		Recovery = 90.24%			
23) Nitrobenzene-d5	5.482	82	347155	36.02	ppm	-0.01
Spiked Amount 50.000	Range 40 - 105		Recovery = 72.04%			
45) 2-Fluorobiphenyl	7.042	172	620205	38.85	ppm	-0.01
Spiked Amount 50.000	Range 43 - 107		Recovery = 77.70%			
72) 2,4,6-Tribromophenol	8.327	330	130808	84.04	ppm	-0.02
Spiked Amount 100.000	Range 42 - 108		Recovery = 84.04%			
86) Terphenyl-d14	10.355	244	589513	48.32	ppm	0.00
Spiked Amount 50.000	Range 45 - 119		Recovery = 96.64%			
Target Compounds						Qvalue
53) o-Dinitrobenzene	7.625	50	1285	0.39	ppm #	64
82) Fluoranthene	9.986	202	2945	0.14	ppm	81
85) Pyrene	10.185	202	2963	0.15	ppm	95
91) bis(2-Ethylhexyl)phtha...	11.697	149	10830	0.87	ppm	96

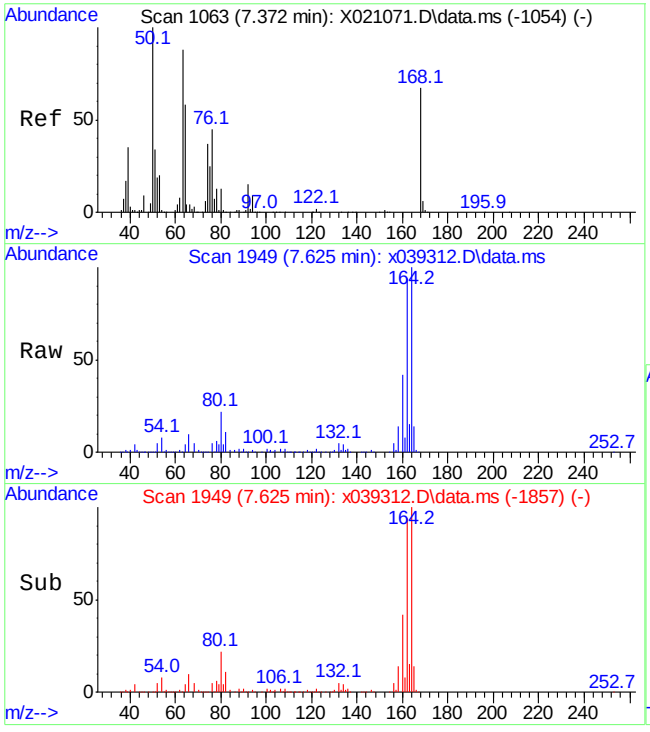
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\sx1828\
Data File : x039312.D
Acq On : 1 Apr 2015 1:36 pm
Operator : marthav
Sample : fa23189-18
Misc : op55531,sx1828,30.0,,,1,1,soil
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Apr 02 09:14:56 2015
Quant Method : C:\msdchem\1\METHODS\8270d_03302.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Tue Mar 31 09:29:41 2015
Response via : Initial Calibration

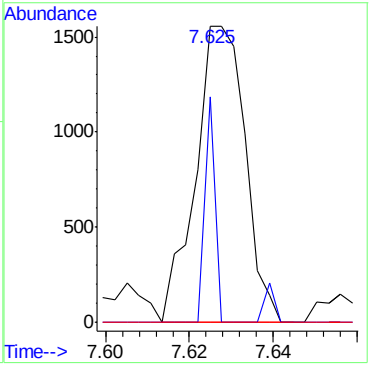


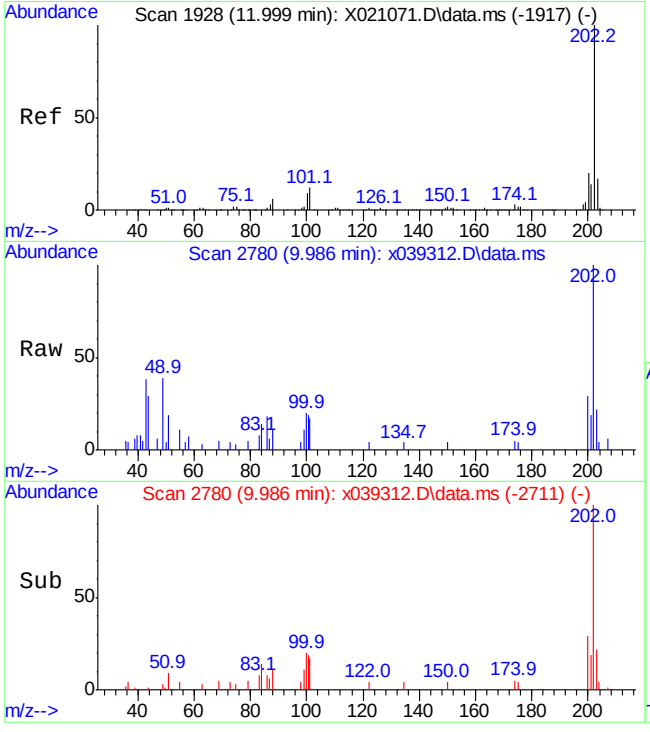


#53
o-Dinitrobenzene
Concen: 0.39 ppm
RT: 7.625 min Scan# 1949
Delta R.T. 0.062 min
Lab File: x039312.D
Acq: 1 Apr 2015 1:36 pm

Tgt Ion: 50 Resp: 1285

Ion	Ratio	Lower	Upper
50	100		
63	90.2	66.6	106.6
168	0.0	42.7	82.7#

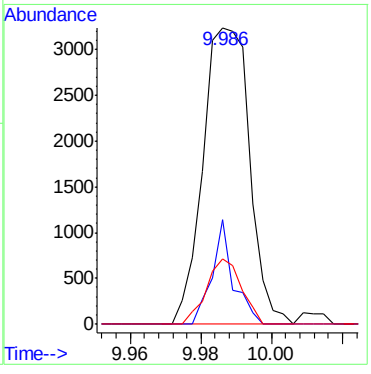


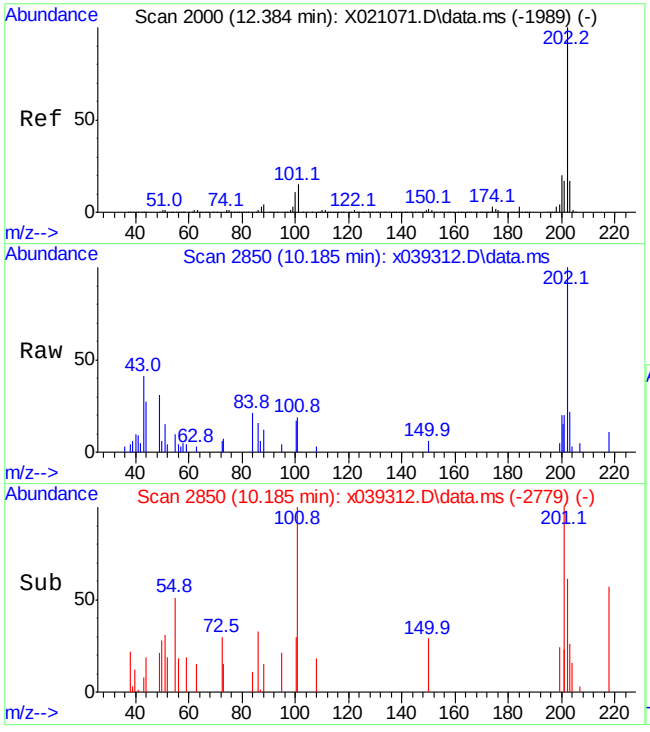


#82
Fluoranthene
Concen: 0.14 ppm
RT: 9.986 min Scan# 2780
Delta R.T. -0.004 min
Lab File: x039312.D
Acq: 1 Apr 2015 1:36 pm

Tgt Ion:202 Resp: 2945

Ion	Ratio	Lower	Upper
202	100		
101	35.4	0.0	48.0
203	21.8	0.0	53.0

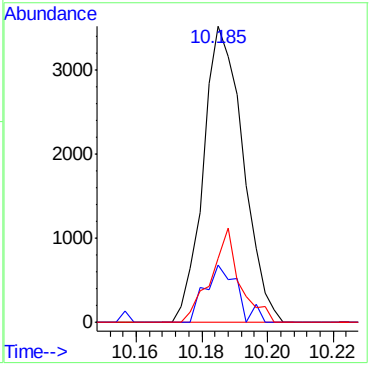


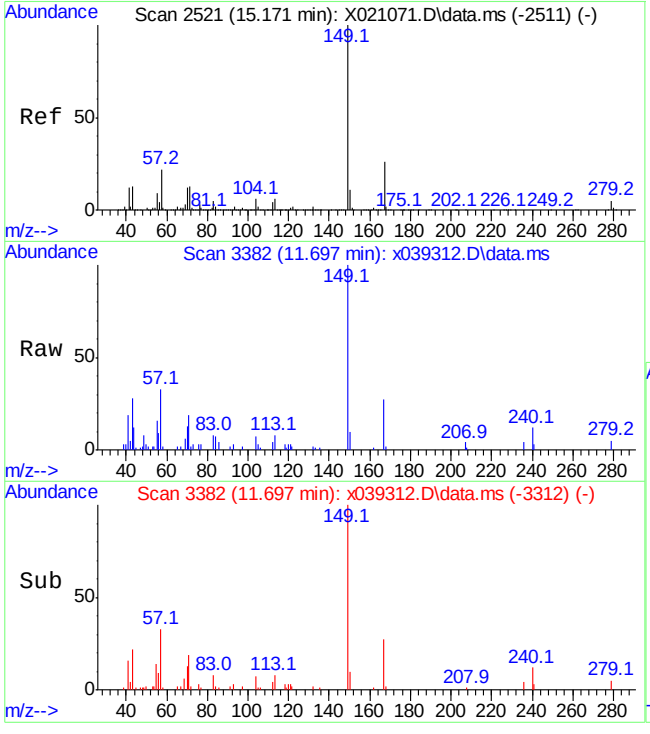


#85
Pyrene
Concen: 0.15 ppm
RT: 10.185 min Scan# 2850
Delta R.T. 0.001 min
Lab File: x039312.D
Acq: 1 Apr 2015 1:36 pm

Tgt Ion:202 Resp: 2963

Ion	Ratio	Lower	Upper
202	100		
101	19.4	0.0	51.8
203	21.6	0.0	54.0

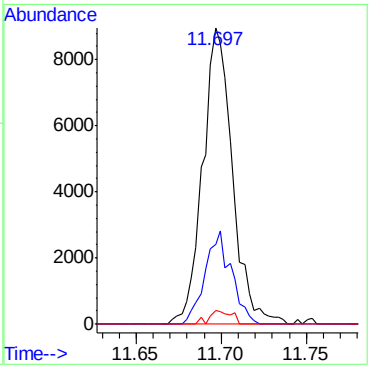




#91
bis(2-Ethylhexyl)phthalate
Concen: 0.87 ppm
RT: 11.697 min Scan# 3382
Delta R.T. -0.002 min
Lab File: x039312.D
Acq: 1 Apr 2015 1:36 pm

Tgt Ion:149 Resp: 10830

Ion	Ratio	Lower	Upper
149	100		
167	27.1	0.0	59.2
279	4.6	0.0	35.6



Manual Integrations APPROVED (compounds with "m" flag)
Mike Eger
04/02/15 14:34

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\sx1828\
Data File : x039313.D
Acq On : 1 Apr 2015 2:01 pm
Operator : marthav
Sample : fa23189-20
Misc : op55531,sx1828,30.4,,,1,1,soil
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Apr 02 09:17:07 2015
Quant Method : C:\msdchem\1\METHODS\8270d_03302.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Tue Mar 31 09:29:41 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.988	152	238066	40.00	ppm	0.00
22) Naphthalene-d8	6.085	136	926577	40.00	ppm	0.00
41) Acenaphthene-d10	7.628	164	489621	40.00	ppm	0.00
67) Phenanthrene-d10	8.915	188	709055	40.00	ppm	0.00
83) Chrysene-d12	11.535	240	564608	40.00	ppm	-0.01
92) Perylene-d12	13.836	264	373139	40.00	ppm	-0.01
System Monitoring Compounds						
5) 2-Fluorophenol	3.965	112	648598	76.10	ppm	0.00
Spiked Amount 100.000	Range 40 - 102		Recovery = 76.10%			
9) Phenol-d5	4.755	99	839132	96.80	ppm	0.00
Spiked Amount 100.000	Range 41 - 100		Recovery = 96.80%			
23) Nitrobenzene-d5	5.482	82	375525	38.26	ppm	-0.01
Spiked Amount 50.000	Range 40 - 105		Recovery = 76.52%			
45) 2-Fluorobiphenyl	7.042	172	677193	40.81	ppm	-0.01
Spiked Amount 50.000	Range 43 - 107		Recovery = 81.62%			
72) 2,4,6-Tribromophenol	8.327	330	150587	94.55	ppm	-0.02
Spiked Amount 100.000	Range 42 - 108		Recovery = 94.55%			
86) Terphenyl-d14	10.355	244	674261	52.26	ppm	0.00
Spiked Amount 50.000	Range 45 - 119		Recovery = 104.52%			
Target Compounds						Qvalue
82) Fluoranthene	9.986	202	19927	0.93	ppm	94
85) Pyrene	10.185	202	20037	0.96	ppm	89
89) Benzo[a]anthracene	11.515	228	12945	0.79	ppm	90
90) Chrysene	11.566	228	15401	1.00	ppm	87
91) bis(2-Ethylhexyl)phtha...	11.694	149	4573	0.35	ppm	83
94) Benzo[b]fluoranthene	13.166	252	12571	1.05	ppm	83
95) Benzo[k]fluoranthene	13.194	252	9057	0.74	ppm	96
96) Benzo[a]pyrene	13.725	252	9597	0.89	ppm	90
97) Indeno[1,2,3-cd]pyrene	15.868	276	4551m	0.69	ppm	
99) Benzo[g,h,i]perylene	16.334	276	5950	0.75	ppm	99

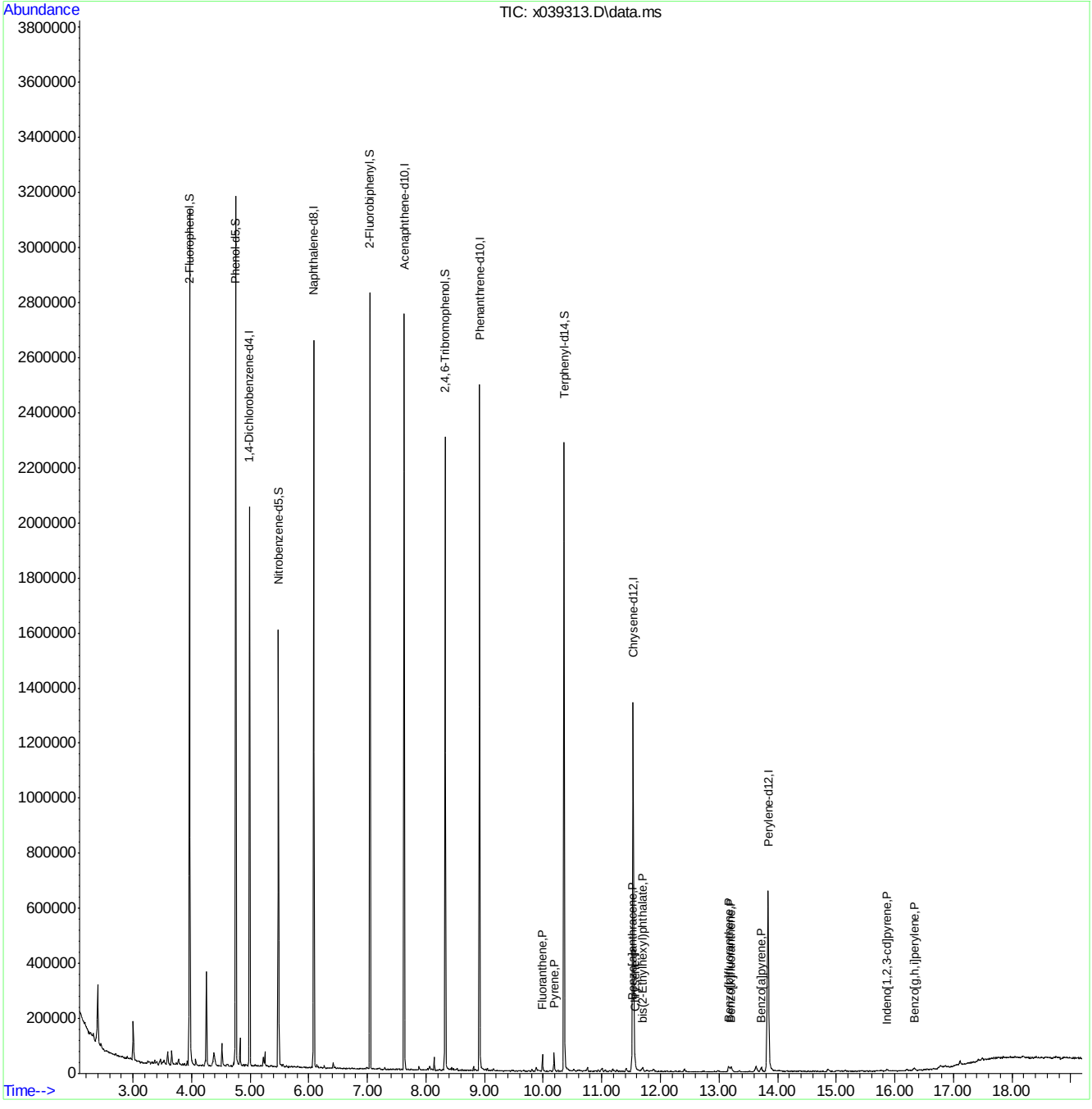
(#) = qualifier out of range (m) = manual integration (+) = signals summed

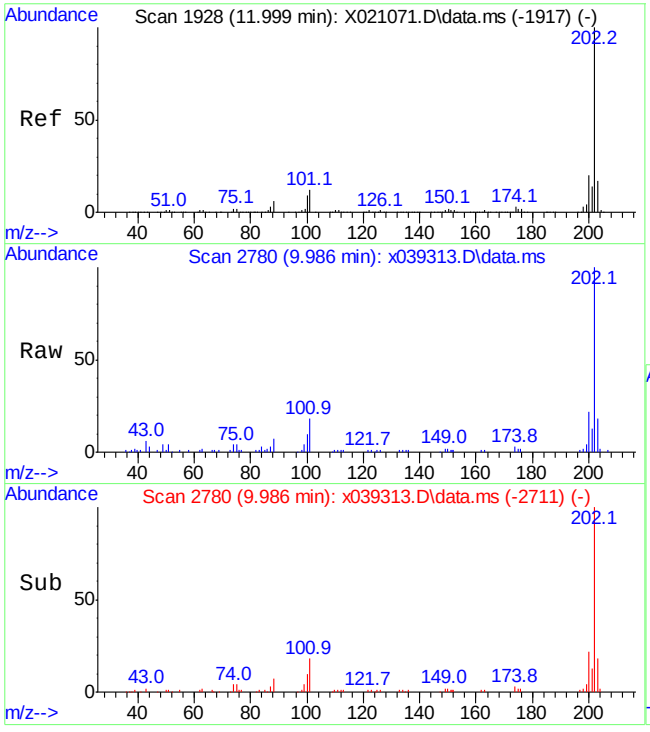
7.1.11
7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\sx1828\
Data File : x039313.D
Acq On : 1 Apr 2015 2:01 pm
Operator : marthav
Sample : fa23189-20
Misc : op55531,sx1828,30.4,,,1,1,soil
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Apr 02 09:17:07 2015
Quant Method : C:\msdchem\1\METHODS\8270d_03302.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Tue Mar 31 09:29:41 2015
Response via : Initial Calibration

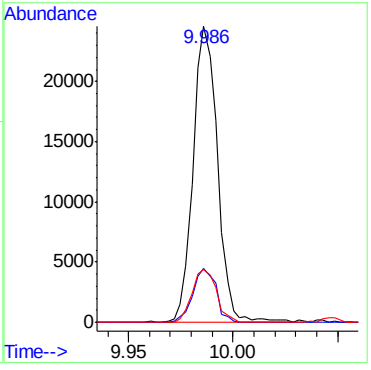


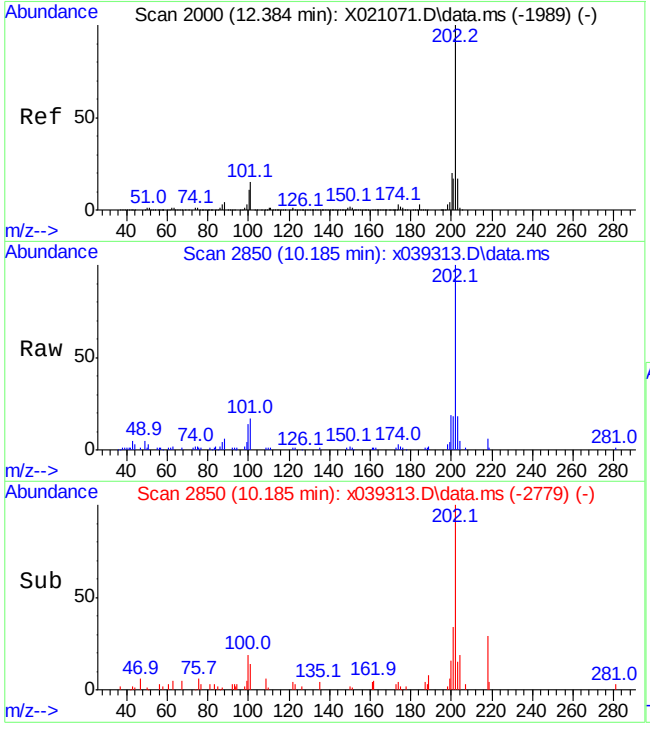


#82
Fluoranthene
Concen: 0.93 ppm
RT: 9.986 min Scan# 2780
Delta R.T. -0.004 min
Lab File: x039313.D
Acq: 1 Apr 2015 2:01 pm

Tgt Ion:202 Resp: 19927

Ion	Ratio	Lower	Upper
202	100		
101	18.2	0.0	48.0
203	18.0	0.0	53.0

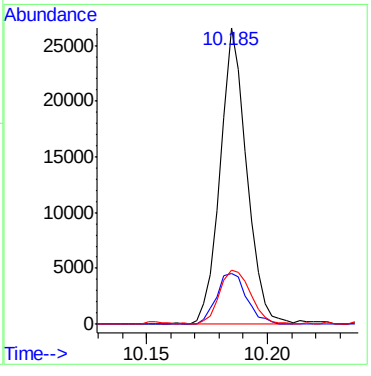


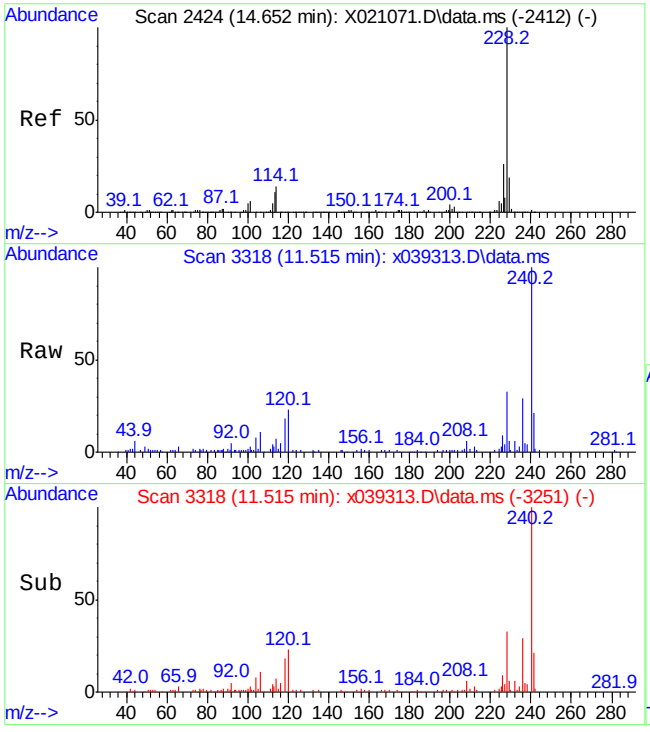


#85
Pyrene
Concen: 0.96 ppm
RT: 10.185 min Scan# 2850
Delta R.T. 0.001 min
Lab File: x039313.D
Acq: 1 Apr 2015 2:01 pm

Tgt Ion:202 Resp: 20037

Ion	Ratio	Lower	Upper
202	100		
101	17.2	0.0	51.8
203	18.0	0.0	54.0

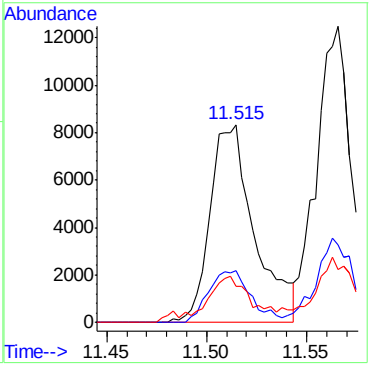


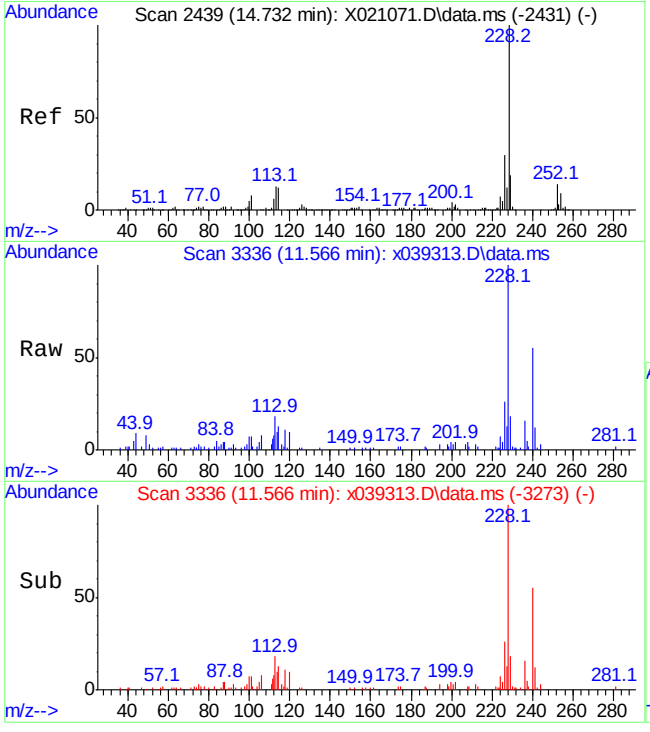


#89
Benzo[a]anthracene
Concen: 0.79 ppm
RT: 11.515 min Scan# 3318
Delta R.T. -0.008 min
Lab File: x039313.D
Acq: 1 Apr 2015 2:01 pm

Tgt Ion:228 Resp: 12945

Ion	Ratio	Lower	Upper
228	100		
226	24.1	0.0	57.9
229	15.5	0.0	51.5

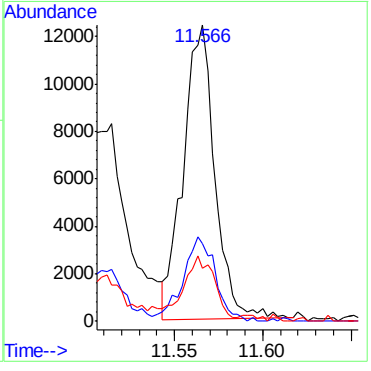


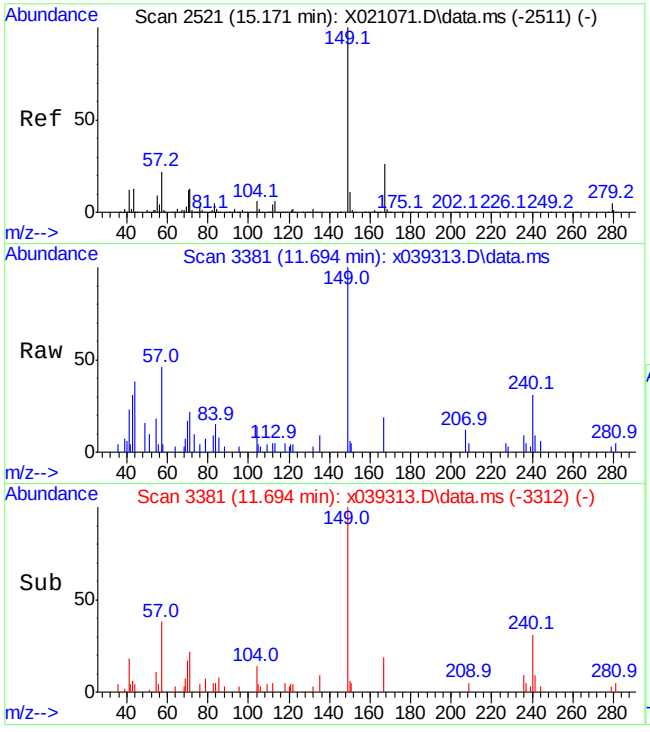


#90
Chrysene
Concen: 1.00 ppm
RT: 11.566 min Scan# 3336
Delta R.T. -0.020 min
Lab File: x039313.D
Acq: 1 Apr 2015 2:01 pm

Tgt Ion:228 Resp: 15401

Ion	Ratio	Lower	Upper
228	100		
226	24.7	2.9	62.9
229	17.0	0.0	51.6

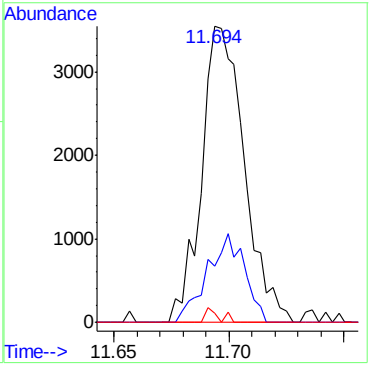


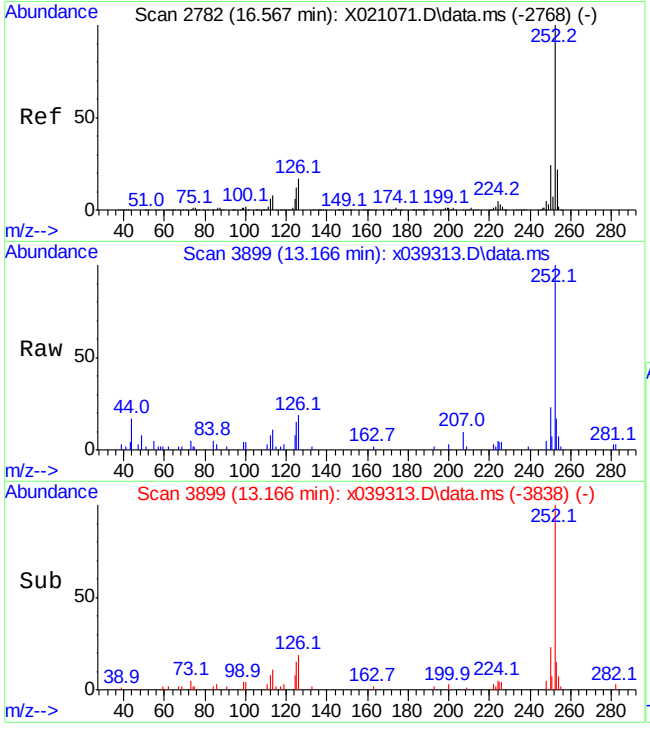


#91
bis(2-Ethylhexyl)phthalate
Concen: 0.35 ppm
RT: 11.694 min Scan# 3381
Delta R.T. -0.005 min
Lab File: x039313.D
Acq: 1 Apr 2015 2:01 pm

Tgt Ion:149 Resp: 4573

Ion	Ratio	Lower	Upper
149	100		
167	19.0	0.0	59.2
279	3.2	0.0	35.6

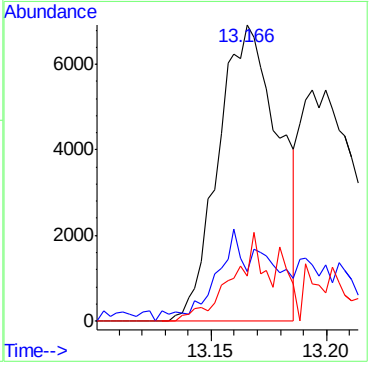


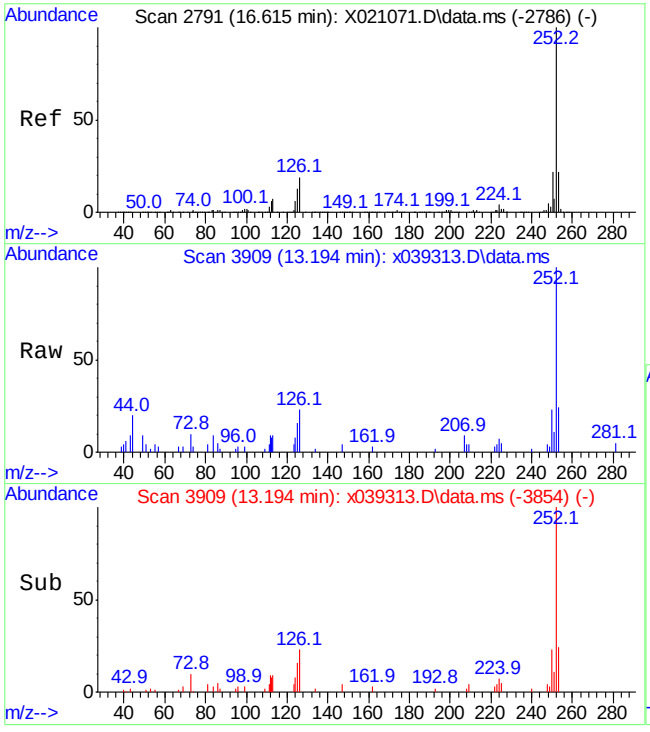


#94
Benzo[b]fluoranthene
Concen: 1.05 ppm
RT: 13.166 min Scan# 3899
Delta R.T. -0.025 min
Lab File: x039313.D
Acq: 1 Apr 2015 2:01 pm

Tgt Ion:252 Resp: 12571

Ion	Ratio	Lower	Upper
252	100		
253	10.9	0.0	52.4
125	12.4	0.0	44.6

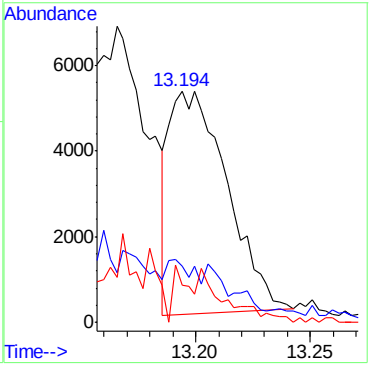


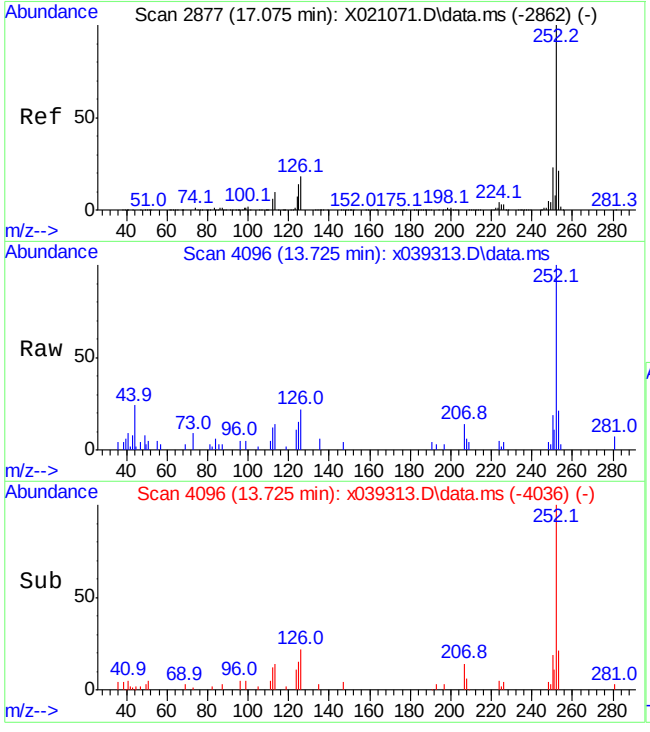


#95
Benzo[k]fluoranthene
Concen: 0.74 ppm
RT: 13.194 min Scan# 3909
Delta R.T. -0.045 min
Lab File: x039313.D
Acq: 1 Apr 2015 2:01 pm

Tgt Ion:252 Resp: 9057

Ion	Ratio	Lower	Upper
252	100		
253	21.0	0.0	53.2
125	13.7	0.0	45.4

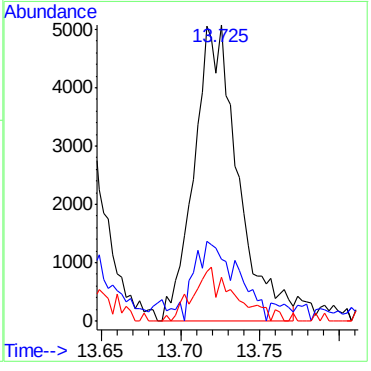


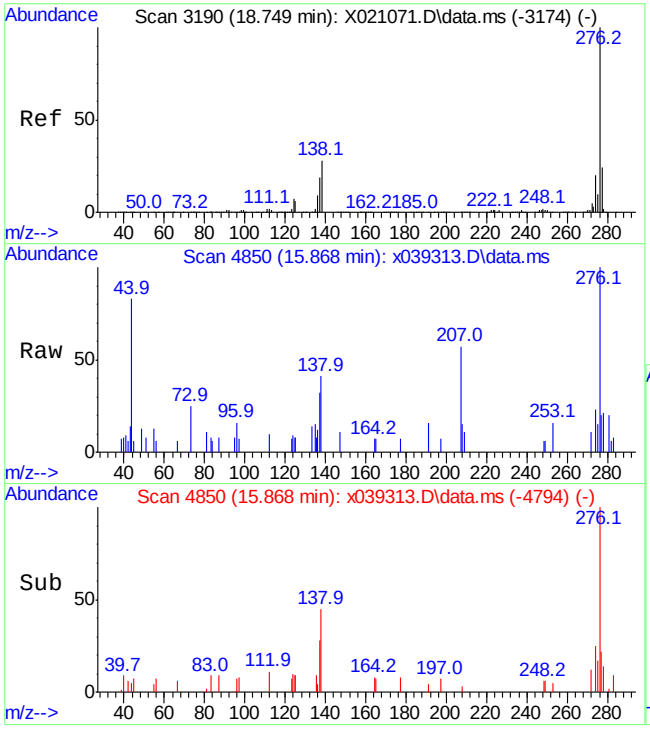


#96
Benzo[a]pyrene
Concen: 0.89 ppm
RT: 13.725 min Scan# 4096
Delta R.T. -0.029 min
Lab File: x039313.D
Acq: 1 Apr 2015 2:01 pm

Tgt Ion:252 Resp: 9597

Ion	Ratio	Lower	Upper
252	100		
253	16.0	0.0	52.3
125	13.7	0.0	46.5

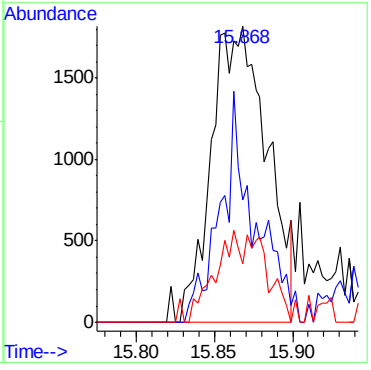


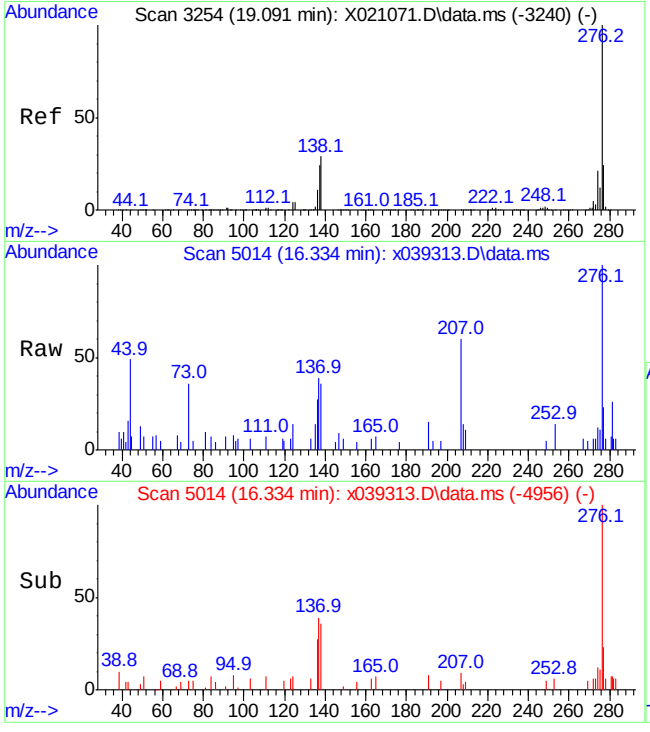


#97
Indeno[1,2,3-cd]pyrene
Concen: 0.69 ppm m
RT: 15.868 min Scan# 4850
Delta R.T. -0.042 min
Lab File: x039313.D
Acq: 1 Apr 2015 2:01 pm

Tgt Ion:276 Resp: 4551

Ion	Ratio	Lower	Upper
276	100		
138	41.2	1.4	61.4
277	19.8	0.0	52.8

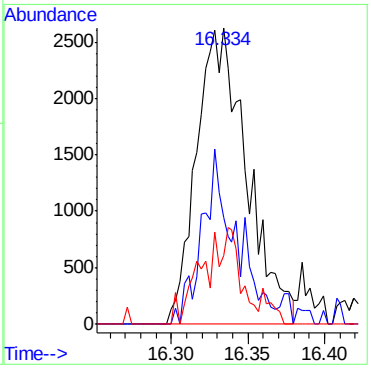




#99
Benzo[g,h,i]perylene
Concen: 0.75 ppm
RT: 16.334 min Scan# 5014
Delta R.T. -0.034 min
Lab File: x039313.D
Acq: 1 Apr 2015 2:01 pm

Tgt Ion:276 Resp: 5950

Ion	Ratio	Lower	Upper
276	100		
138	37.6	6.7	66.7
277	24.2	0.0	54.0



Manual Integration Approval Summary

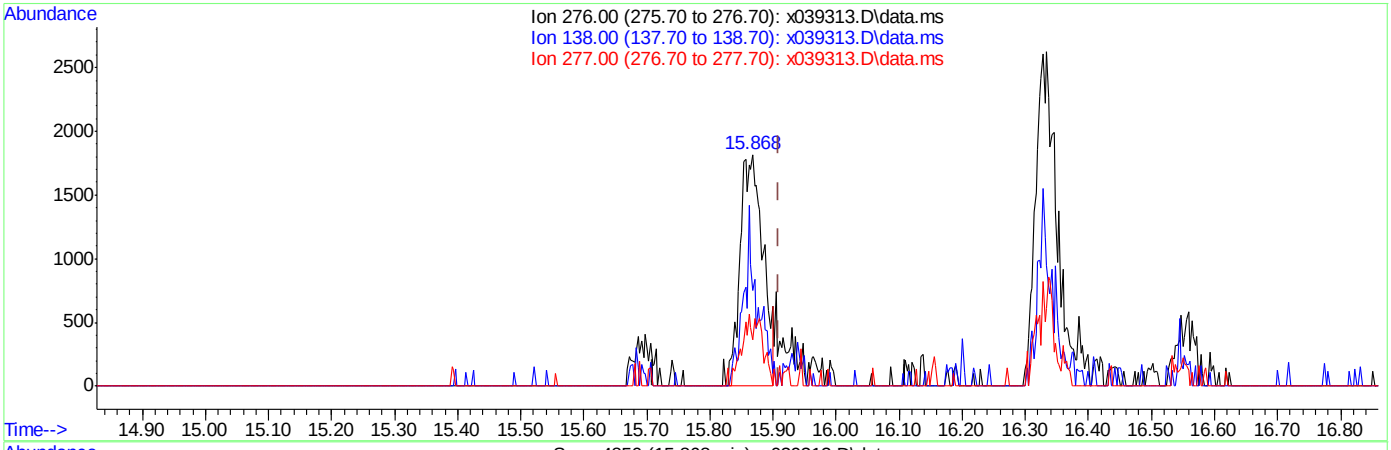
Sample Number:	FA23189-20	**Method:**	SW846 8270D
Lab FileID:	X039313.D	**Analyst approved:**	04/02/15 10:06 Martha Valls
Injection Time:	04/01/15 14:01	**Supervisor approved:**	04/02/15 14:34 Mike Eger

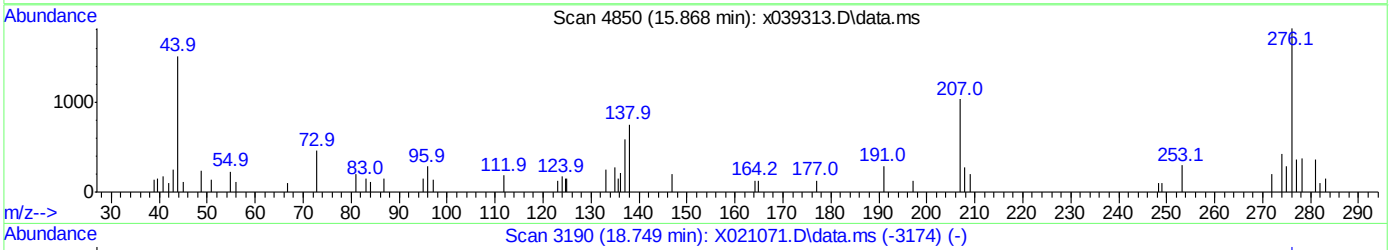
Parameter	CAS	Sig#	R.T. (min.)	Reason
Indeno(1,2,3-cd)pyrene	193-39-5		15.87	Poor instrument integration

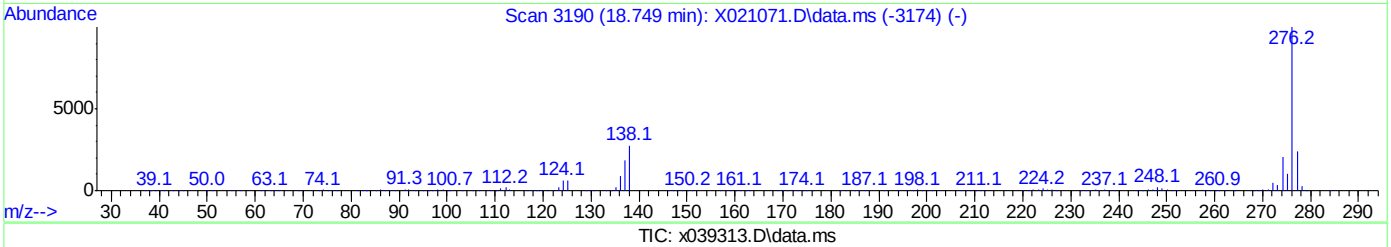
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\sx1828\
Data File : x039313.D
Acq On : 1 Apr 2015 2:01 pm
Operator : marthav
Sample : fa23189-20
Misc : op55531,sx1828,30.4,,,1,1,soil
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Apr 02 07:56:12 2015
Quant Method : C:\msdchem\1\METHODS\8270d_03302.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Tue Mar 31 09:29:41 2015
Response via : Initial Calibration







TIC: x039313.D\data.ms

(97) Indeno[1,2,3-cd]pyrene (P)

15.868min (-0.042) 0.69ppm m

response 4551

Ion	Exp%	Act%
276.00	100	100
138.00	31.40	41.20
277.00	22.80	19.80
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\sx1828\
Data File : x039314.D
Acq On : 1 Apr 2015 2:48 pm
Operator : marthav
Sample : fa23189-22
Misc : op55531,sx1828,29.8,,,1,1,soil
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Apr 02 09:27:50 2015
Quant Method : C:\msdchem\1\METHODS\8270d_03302.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Tue Mar 31 09:29:41 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.988	152	266185	40.00	ppm	0.00
22) Naphthalene-d8	6.085	136	1005676	40.00	ppm	0.00
41) Acenaphthene-d10	7.630	164	531611	40.00	ppm	0.00
67) Phenanthrene-d10	8.920	188	792341	40.00	ppm	0.00
83) Chrysene-d12	11.543	240	621210	40.00	ppm	0.00
92) Perylene-d12	13.847	264	395850	40.00	ppm	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	3.965	112	777032	81.54	ppm	0.00
Spiked Amount 100.000	Range 40 - 102		Recovery = 81.54%			
9) Phenol-d5	4.755	99	990435	102.18	ppm	0.00
Spiked Amount 100.000	Range 41 - 100		Recovery = 102.18%#			
23) Nitrobenzene-d5	5.482	82	453757	42.60	ppm	-0.01
Spiked Amount 50.000	Range 40 - 105		Recovery = 85.20%			
45) 2-Fluorobiphenyl	7.045	172	803956	44.62	ppm	0.00
Spiked Amount 50.000	Range 43 - 107		Recovery = 89.24%			
72) 2,4,6-Tribromophenol	8.332	330	180171	101.23	ppm	-0.01
Spiked Amount 100.000	Range 42 - 108		Recovery = 101.23%			
86) Terphenyl-d14	10.364	244	794116	55.95	ppm	0.02
Spiked Amount 50.000	Range 45 - 119		Recovery = 111.90%			

Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed

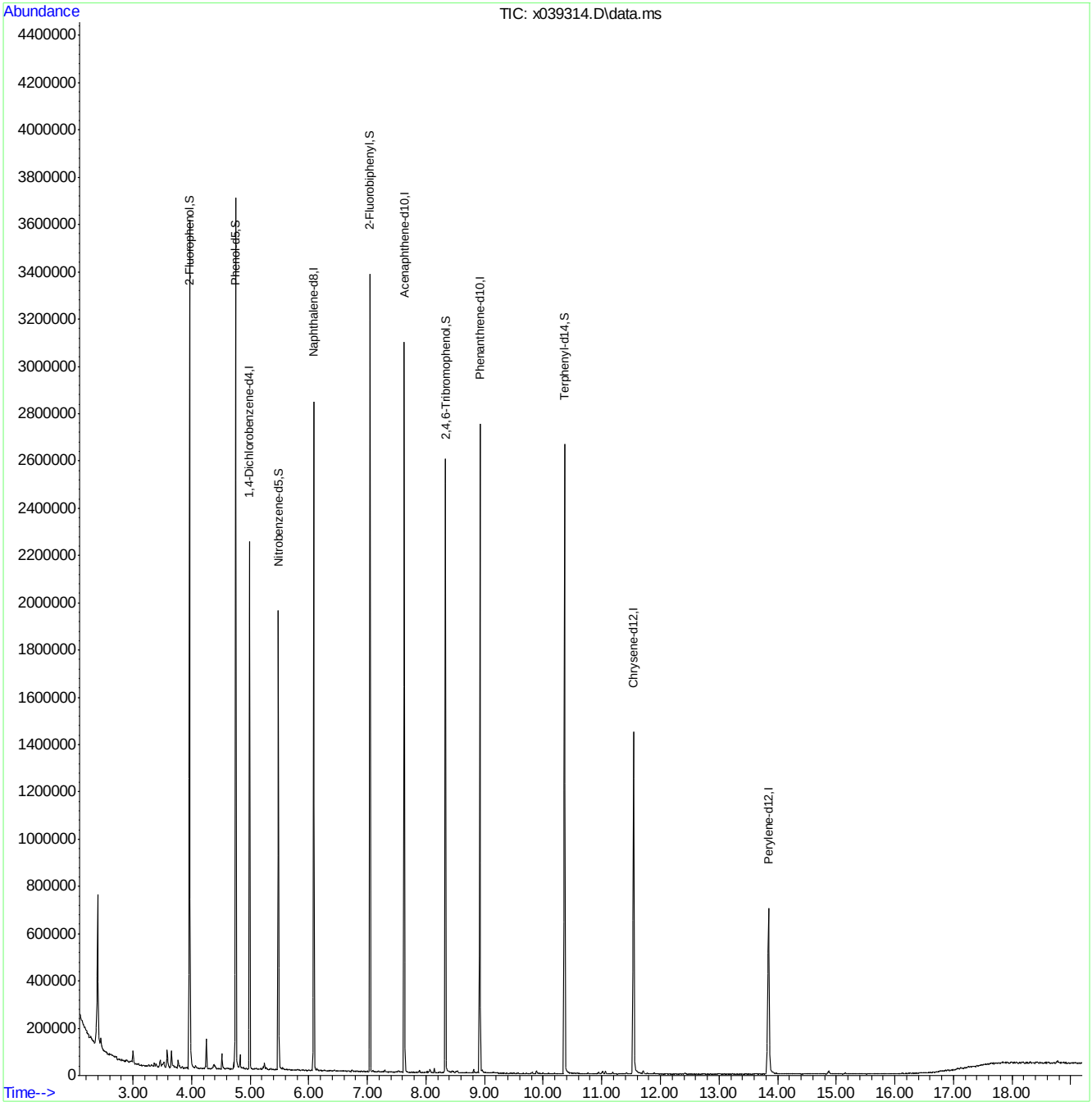
7.1.12

7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\sx1828\
Data File : x039314.D
Acq On : 1 Apr 2015 2:48 pm
Operator : marthav
Sample : fa23189-22
Misc : op55531,sx1828,29.8,,,1,1,soil
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Apr 02 09:27:50 2015
Quant Method : C:\msdchem\1\METHODS\8270d_03302.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Tue Mar 31 09:29:41 2015
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\sx1828\
Data File : x039315.D
Acq On : 1 Apr 2015 3:13 pm
Operator : marthav
Sample : fa23189-24
Misc : op55531,sx1828,29.6,,,1,1,soil
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Apr 02 09:28:52 2015
Quant Method : C:\msdchem\1\METHODS\8270d_03302.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Tue Mar 31 09:29:41 2015
Response via : Initial Calibration

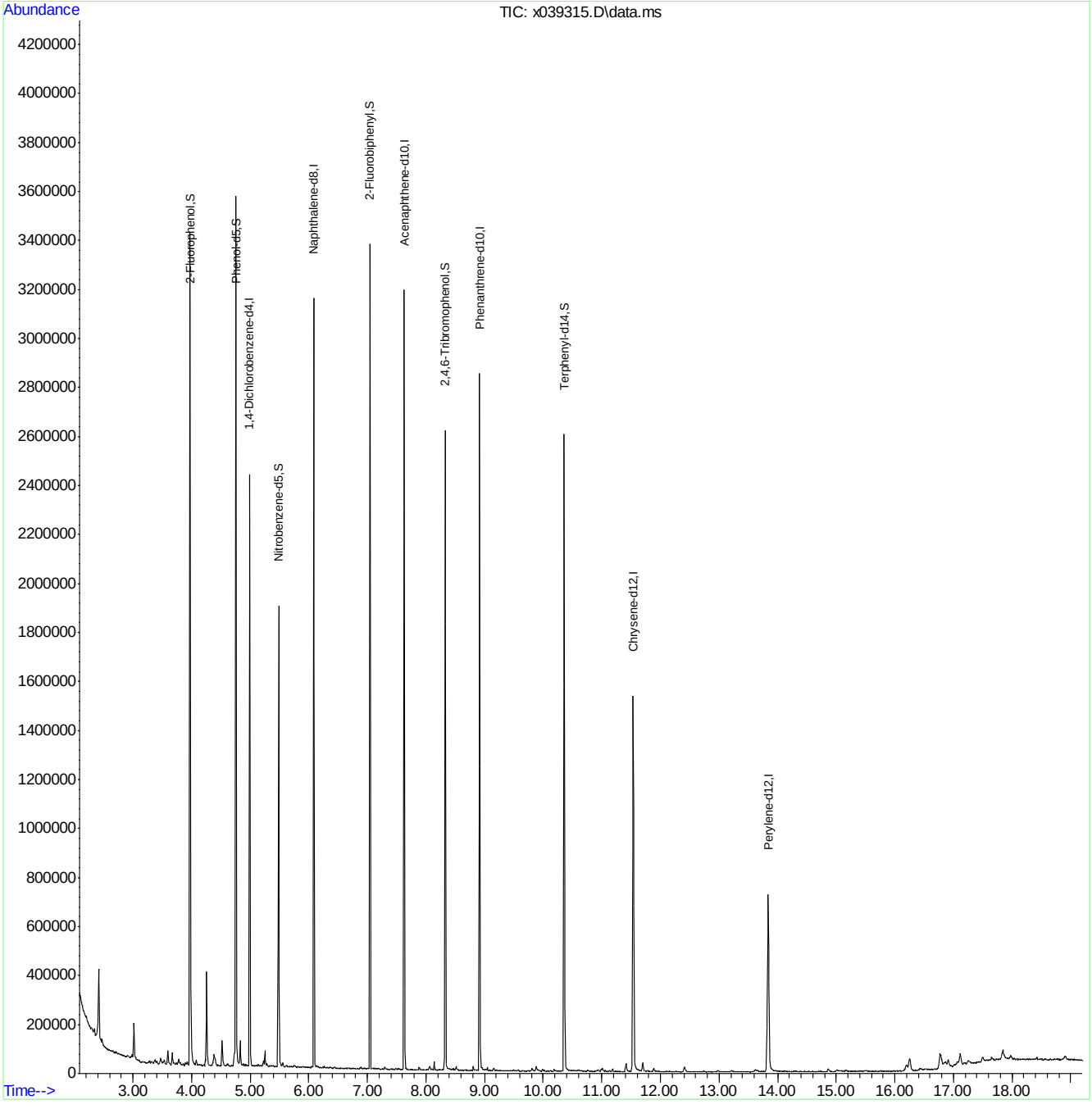
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.991	152	294237	40.00	ppm	0.00
22) Naphthalene-d8	6.085	136	1114940	40.00	ppm	0.00
41) Acenaphthene-d10	7.630	164	580864	40.00	ppm	0.00
67) Phenanthrene-d10	8.918	188	860330	40.00	ppm	0.00
83) Chrysene-d12	11.537	240	649200	40.00	ppm	0.00
92) Perylene-d12	13.842	264	413774	40.00	ppm	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	3.973	112	759686	72.12	ppm	0.00
Spiked Amount 100.000	Range 40 - 102		Recovery = 72.12%			
9) Phenol-d5	4.758	99	975651	91.06	ppm	0.00
Spiked Amount 100.000	Range 41 - 100		Recovery = 91.06%			
23) Nitrobenzene-d5	5.485	82	444895	37.67	ppm	0.00
Spiked Amount 50.000	Range 40 - 105		Recovery = 75.34%			
45) 2-Fluorobiphenyl	7.045	172	774292	39.33	ppm	0.00
Spiked Amount 50.000	Range 43 - 107		Recovery = 78.66%			
72) 2,4,6-Tribromophenol	8.329	330	178104	92.16	ppm	-0.01
Spiked Amount 100.000	Range 42 - 108		Recovery = 92.16%			
86) Terphenyl-d14	10.358	244	768130	51.78	ppm	0.01
Spiked Amount 50.000	Range 45 - 119		Recovery = 103.56%			
Target Compounds						Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\sx1828\
Data File : x039315.D
Acq On : 1 Apr 2015 3:13 pm
Operator : marthav
Sample : fa23189-24
Misc : op55531,sx1828,29.6,,,1,1,soil
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Apr 02 09:28:52 2015
Quant Method : C:\msdchem\1\METHODS\8270d_03302.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Tue Mar 31 09:29:41 2015
Response via : Initial Calibration



8270d_03302.m Thu Apr 02 09:59:28 2015 Page: 2

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\sx1828\
Data File : x039316.D
Acq On : 1 Apr 2015 3:38 pm
Operator : marthav
Sample : fa23189-25
Misc : op55531,sx1828,29.7,,,1,1,soil
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Apr 02 09:33:57 2015
Quant Method : C:\msdchem\1\METHODS\8270d_03302.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Tue Mar 31 09:29:41 2015
Response via : Initial Calibration

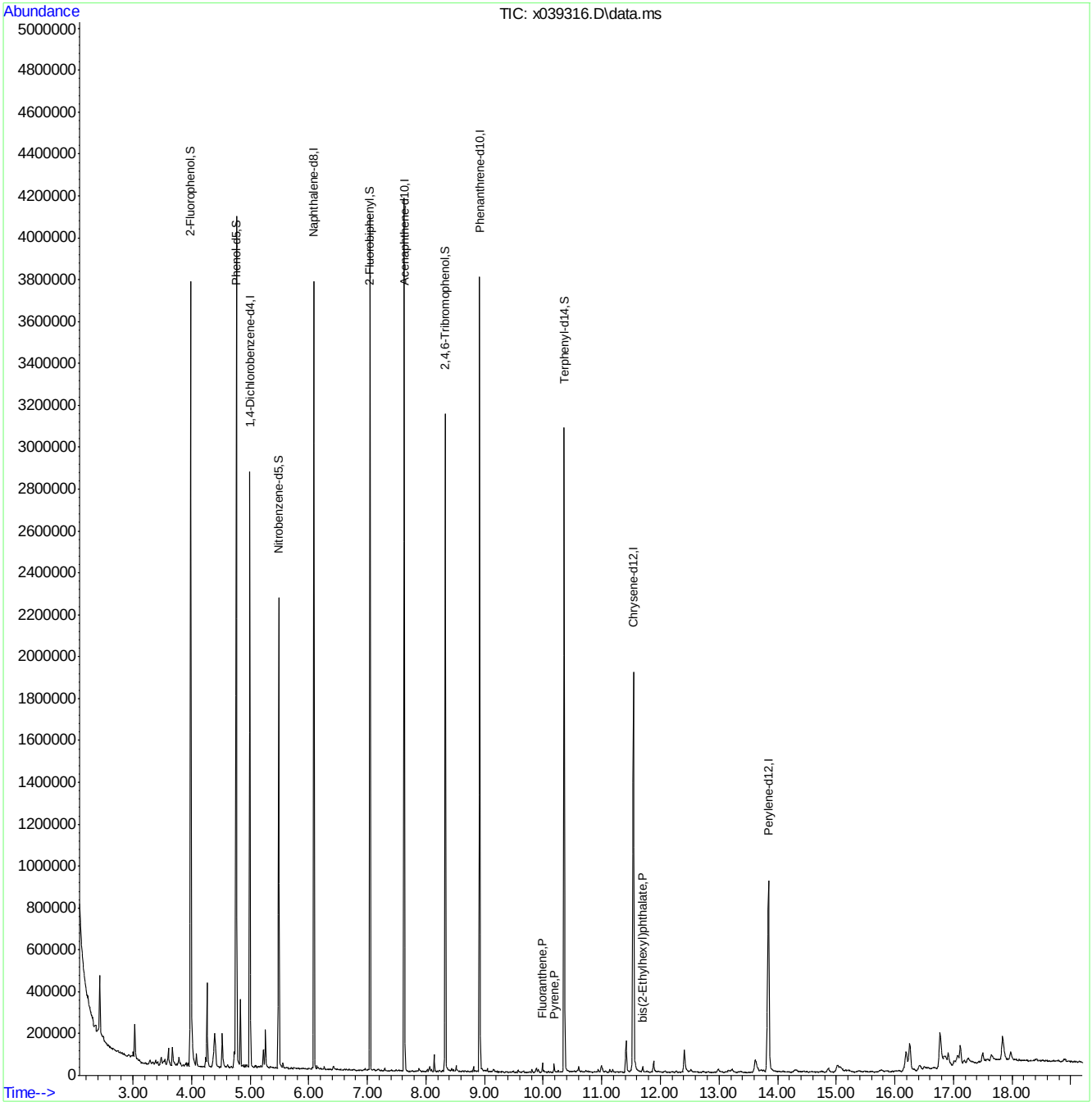
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.994	152	368763	40.00	ppm	0.00
22) Naphthalene-d8	6.088	136	1383211	40.00	ppm	0.00
41) Acenaphthene-d10	7.630	164	762486	40.00	ppm	0.00
67) Phenanthrene-d10	8.918	188	1143339	40.00	ppm	0.00
83) Chrysene-d12	11.540	240	837022	40.00	ppm	0.00
92) Perylene-d12	13.845	264	563816	40.00	ppm	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	3.982	112	931986	70.59	ppm	0.01
Spiked Amount 100.000	Range 40 - 102		Recovery = 70.59%			
9) Phenol-d5	4.763	99	1186405	88.35	ppm	0.00
Spiked Amount 100.000	Range 41 - 100		Recovery = 88.35%			
23) Nitrobenzene-d5	5.488	82	548251	37.42	ppm	0.00
Spiked Amount 50.000	Range 40 - 105		Recovery = 74.84%			
45) 2-Fluorobiphenyl	7.045	172	958339	37.08	ppm	0.00
Spiked Amount 50.000	Range 43 - 107		Recovery = 74.16%			
72) 2,4,6-Tribromophenol	8.329	330	235140	91.56	ppm	-0.01
Spiked Amount 100.000	Range 42 - 108		Recovery = 91.56%			
86) Terphenyl-d14	10.358	244	943452	49.33	ppm	0.01
Spiked Amount 50.000	Range 45 - 119		Recovery = 98.66%			
Target Compounds						Qvalue
82) Fluoranthene	9.986	202	13461	0.39	ppm	84
85) Pyrene	10.188	202	12674	0.41	ppm	91
91) bis(2-Ethylhexyl)phtha...	11.697	149	7677	0.39	ppm	89

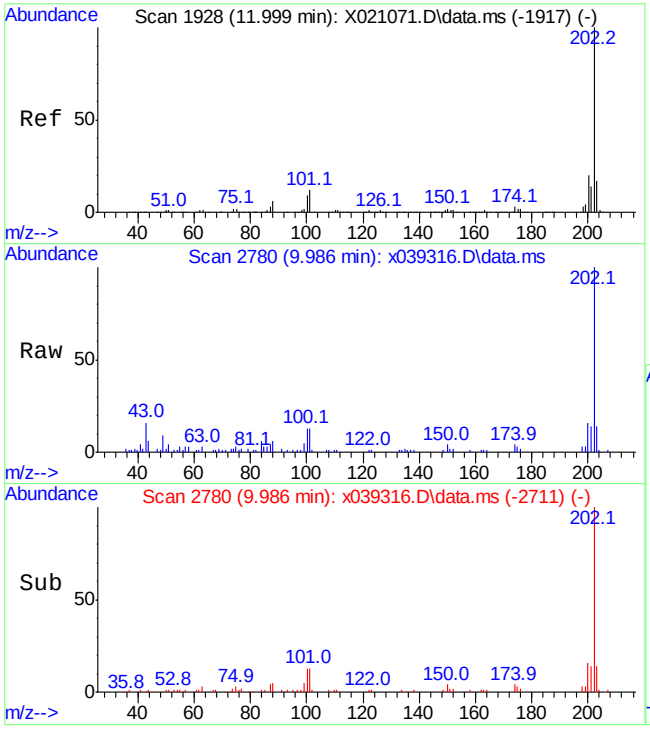
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\sx1828\
Data File : x039316.D
Acq On : 1 Apr 2015 3:38 pm
Operator : marthav
Sample : fa23189-25
Misc : op55531,sx1828,29.7,,,1,1,soil
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Apr 02 09:33:57 2015
Quant Method : C:\msdchem\1\METHODS\8270d_03302.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Tue Mar 31 09:29:41 2015
Response via : Initial Calibration

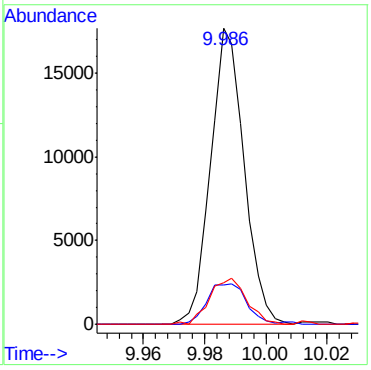


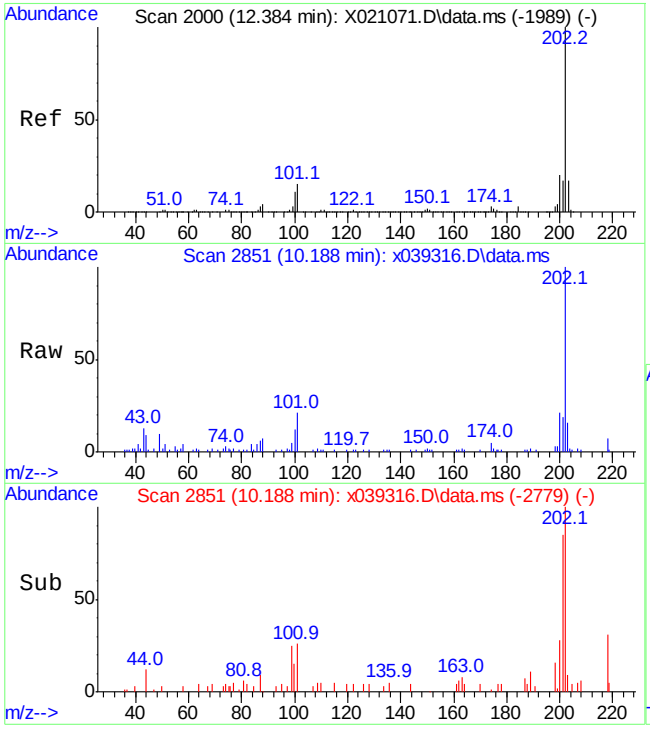


#82
Fluoranthene
Concen: 0.39 ppm
RT: 9.986 min Scan# 2780
Delta R.T. -0.004 min
Lab File: x039316.D
Acq: 1 Apr 2015 3:38 pm

Tgt Ion:202 Resp: 13461

Ion	Ratio	Lower	Upper
202	100		
101	13.0	0.0	48.0
203	13.9	0.0	53.0

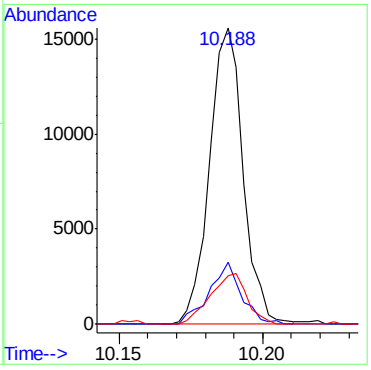


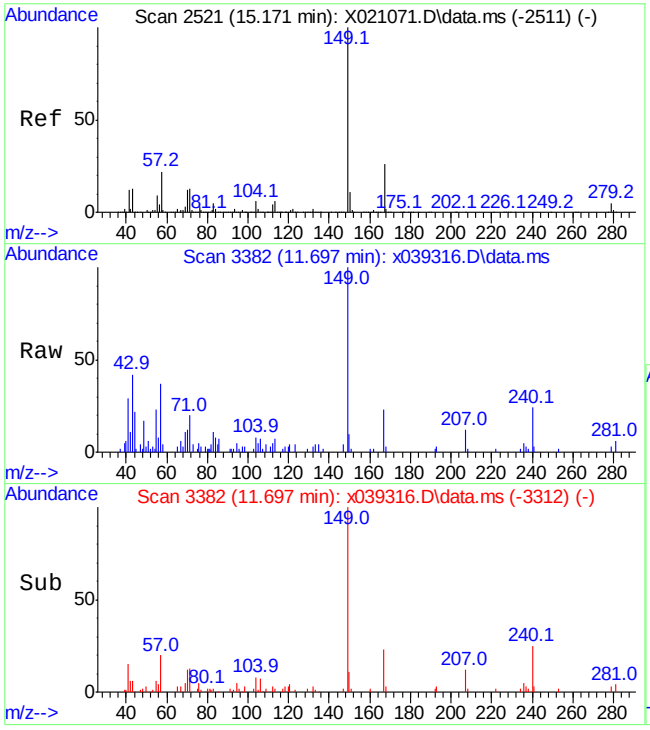


#85
Pyrene
Concen: 0.41 ppm
RT: 10.188 min Scan# 2851
Delta R.T. 0.004 min
Lab File: x039316.D
Acq: 1 Apr 2015 3:38 pm

Tgt Ion:202 Resp: 12674

Ion	Ratio	Lower	Upper
202	100		
101	20.9	0.0	51.8
203	16.5	0.0	54.0

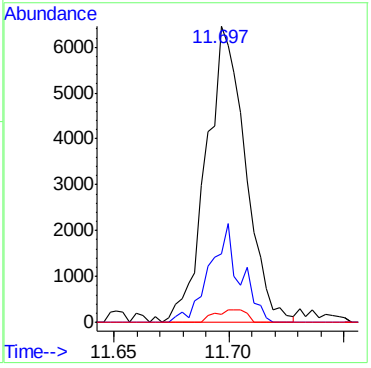




#91
bis(2-Ethylhexyl)phthalate
Concen: 0.39 ppm
RT: 11.697 min Scan# 3382
Delta R.T. -0.002 min
Lab File: x039316.D
Acq: 1 Apr 2015 3:38 pm

Tgt Ion:149 Resp: 7677

Ion	Ratio	Lower	Upper
149	100		
167	23.3	0.0	59.2
279	2.8	0.0	35.6



7.1.14

7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\sx1828\
Data File : x039317.D
Acq On : 1 Apr 2015 4:02 pm
Operator : marthav
Sample : fa23189-27
Misc : op55531,sx1828,30.0,,,1,1,soil
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Apr 02 09:34:41 2015
Quant Method : C:\msdchem\1\METHODS\8270d_03302.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Tue Mar 31 09:29:41 2015
Response via : Initial Calibration

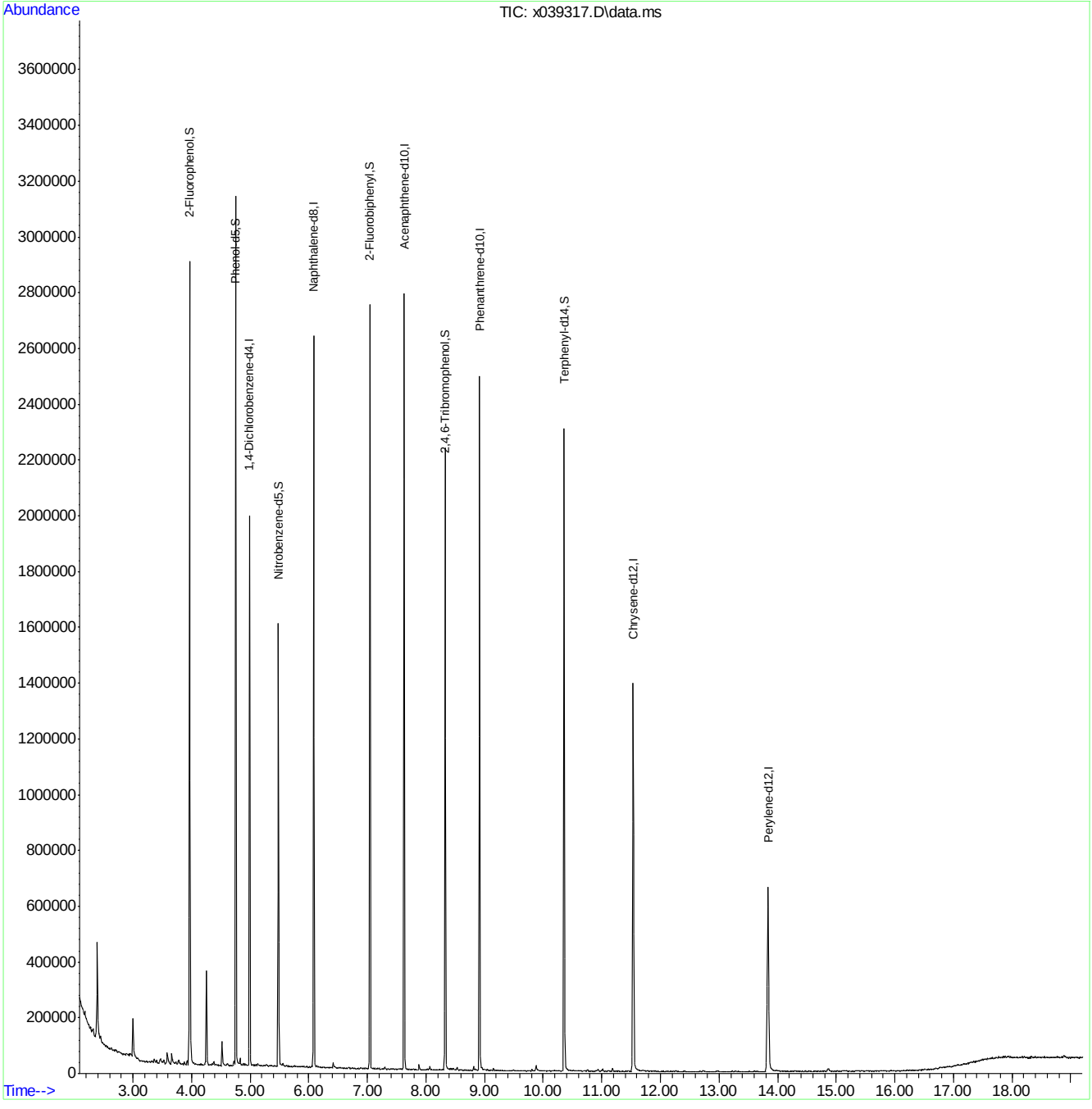
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.991	152	239350	40.00	ppm	0.00
22) Naphthalene-d8	6.085	136	920035	40.00	ppm	0.00
41) Acenaphthene-d10	7.628	164	484172	40.00	ppm	0.00
67) Phenanthrene-d10	8.915	188	722393	40.00	ppm	0.00
83) Chrysene-d12	11.537	240	575131	40.00	ppm	0.00
92) Perylene-d12	13.839	264	384493	40.00	ppm	-0.01
System Monitoring Compounds						
5) 2-Fluorophenol	3.965	112	632920	73.86	ppm	0.00
Spiked Amount 100.000	Range 40 - 102		Recovery = 73.86%			
9) Phenol-d5	4.755	99	824226	94.57	ppm	0.00
Spiked Amount 100.000	Range 41 - 100		Recovery = 94.57%			
23) Nitrobenzene-d5	5.482	82	374274	38.41	ppm	-0.01
Spiked Amount 50.000	Range 40 - 105		Recovery = 76.82%			
45) 2-Fluorobiphenyl	7.045	172	654477	39.88	ppm	0.00
Spiked Amount 50.000	Range 43 - 107		Recovery = 79.76%			
72) 2,4,6-Tribromophenol	8.329	330	141992	87.50	ppm	-0.01
Spiked Amount 100.000	Range 42 - 108		Recovery = 87.50%			
86) Terphenyl-d14	10.358	244	665629	50.65	ppm	0.01
Spiked Amount 50.000	Range 45 - 119		Recovery = 101.30%			
Target Compounds						Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\sx1828\
Data File : x039317.D
Acq On : 1 Apr 2015 4:02 pm
Operator : marthav
Sample : fa23189-27
Misc : op55531,sx1828,30.0,,,1,1,soil
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Apr 02 09:34:41 2015
Quant Method : C:\msdchem\1\METHODS\8270d_03302.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Tue Mar 31 09:29:41 2015
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\sx1828\
Data File : x039318.D
Acq On : 1 Apr 2015 4:27 pm
Operator : marthav
Sample : fa23189-29
Misc : op55531,sx1828,29.8,,,1,1,soil
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Apr 02 09:35:40 2015
Quant Method : C:\msdchem\1\METHODS\8270d_03302.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Tue Mar 31 09:29:41 2015
Response via : Initial Calibration

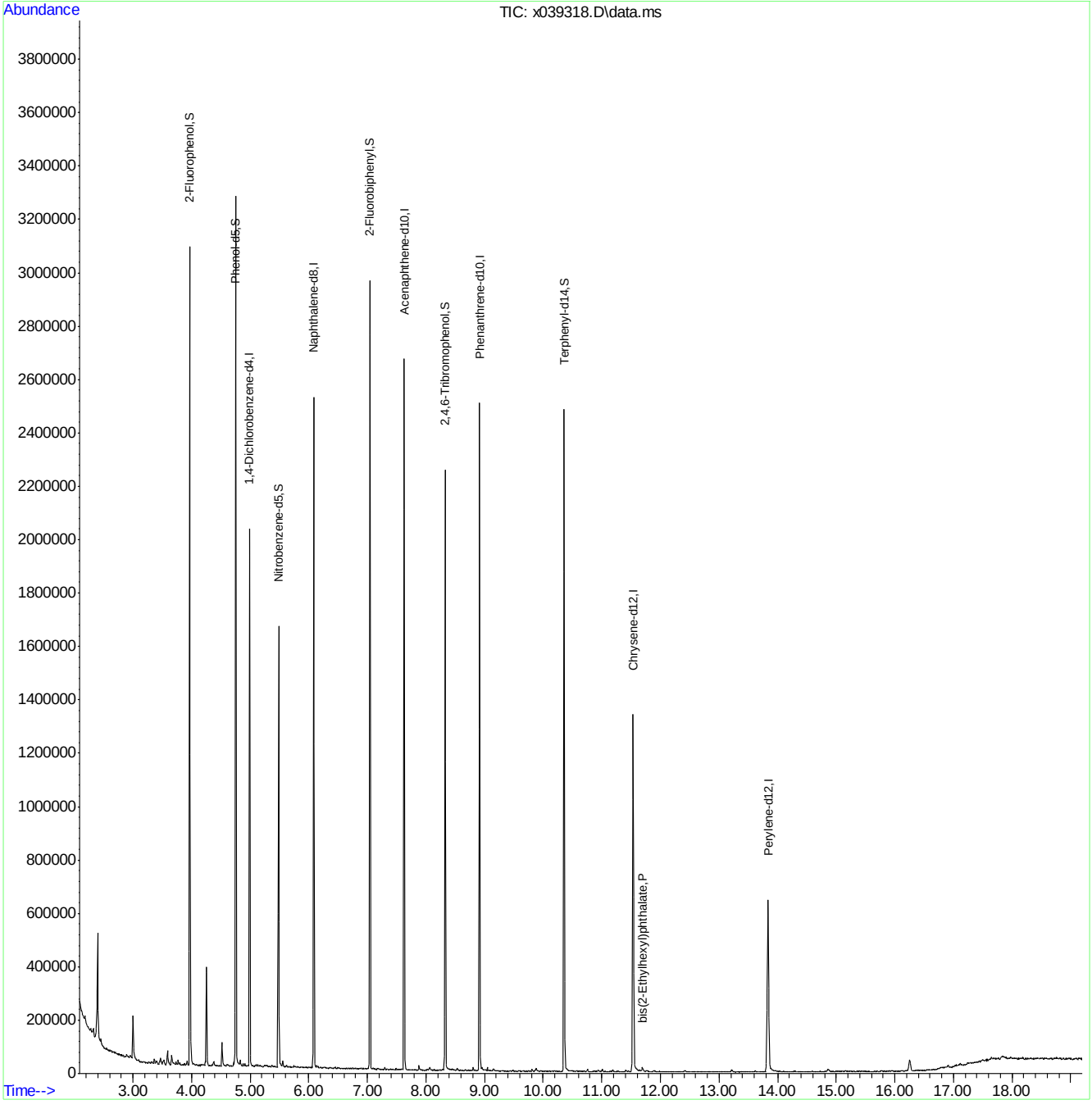
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.991	152	237254	40.00	ppm	0.00
22) Naphthalene-d8	6.085	136	900134	40.00	ppm	0.00
41) Acenaphthene-d10	7.628	164	489525	40.00	ppm	0.00
67) Phenanthrene-d10	8.915	188	716625	40.00	ppm	0.00
83) Chrysene-d12	11.534	240	565215	40.00	ppm	-0.01
92) Perylene-d12	13.839	264	376418	40.00	ppm	-0.01
System Monitoring Compounds						
5) 2-Fluorophenol	3.965	112	663550	78.12	ppm	0.00
Spiked Amount 100.000	Range 40 - 102		Recovery = 78.12%			
9) Phenol-d5	4.755	99	840119	97.25	ppm	0.00
Spiked Amount 100.000	Range 41 - 100		Recovery = 97.25%			
23) Nitrobenzene-d5	5.485	82	387987	40.69	ppm	0.00
Spiked Amount 50.000	Range 40 - 105		Recovery = 81.38%			
45) 2-Fluorobiphenyl	7.042	172	683871	41.22	ppm	-0.01
Spiked Amount 50.000	Range 43 - 107		Recovery = 82.44%			
72) 2,4,6-Tribromophenol	8.326	330	142272	88.38	ppm	-0.02
Spiked Amount 100.000	Range 42 - 108		Recovery = 88.38%			
86) Terphenyl-d14	10.355	244	703197	54.45	ppm	0.00
Spiked Amount 50.000	Range 45 - 119		Recovery = 108.90%			
Target Compounds						Qvalue
91) bis(2-Ethylhexyl)phtha...	11.696	149	4875	0.37	ppm	95

(#) = qualifier out of range (m) = manual integration (+) = signals summed

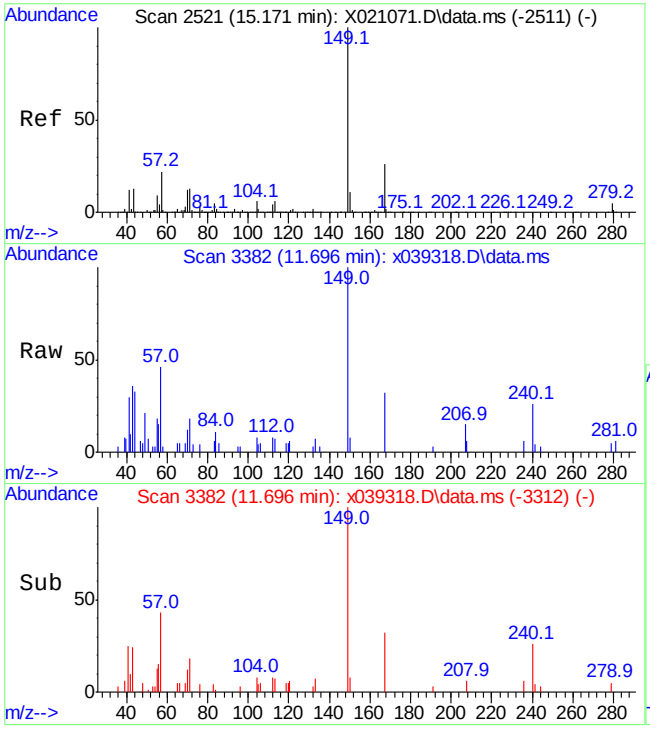
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\sx1828\
Data File : x039318.D
Acq On : 1 Apr 2015 4:27 pm
Operator : marthav
Sample : fa23189-29
Misc : op55531,sx1828,29.8,,,1,1,soil
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Apr 02 09:35:40 2015
Quant Method : C:\msdchem\1\METHODS\8270d_03302.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Tue Mar 31 09:29:41 2015
Response via : Initial Calibration



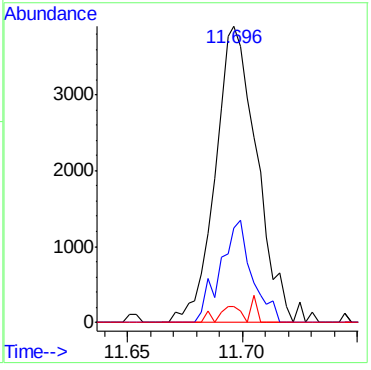
8270d_03302.m Thu Apr 02 09:59:34 2015 Page: 2



#91
bis(2-Ethylhexyl)phthalate
Concen: 0.37 ppm
RT: 11.696 min Scan# 3382
Delta R.T. -0.002 min
Lab File: x039318.D
Acq: 1 Apr 2015 4:27 pm

Tgt Ion:149 Resp: 4875

Ion	Ratio	Lower	Upper
149	100		
167	32.0	0.0	59.2
279	5.3	0.0	35.6



7.1.16

7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\sx1828\
Data File : x039321.D
Acq On : 1 Apr 2015 5:41 pm
Operator : marthav
Sample : fa23189-31
Misc : op55531,sx1828,29.7,,,1,1,soil
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Apr 02 09:37:41 2015
Quant Method : C:\msdchem\1\METHODS\8270d_03302.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Tue Mar 31 09:29:41 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.991	152	231377	40.00	ppm	0.00
22) Naphthalene-d8	6.085	136	902873	40.00	ppm	0.00
41) Acenaphthene-d10	7.628	164	468275	40.00	ppm	0.00
67) Phenanthrene-d10	8.915	188	704060	40.00	ppm	0.00
83) Chrysene-d12	11.537	240	554590	40.00	ppm	0.00
92) Perylene-d12	13.839	264	365745	40.00	ppm	-0.01
System Monitoring Compounds						
5) 2-Fluorophenol	3.968	112	593992	71.71	ppm	0.00
Spiked Amount 100.000	Range 40 - 102		Recovery = 71.71%			
9) Phenol-d5	4.755	99	746833	88.64	ppm	0.00
Spiked Amount 100.000	Range 41 - 100		Recovery = 88.64%			
23) Nitrobenzene-d5	5.482	82	350594	36.66	ppm	-0.01
Spiked Amount 50.000	Range 40 - 105		Recovery = 73.32%			
45) 2-Fluorobiphenyl	7.042	172	596745	37.60	ppm	-0.01
Spiked Amount 50.000	Range 43 - 107		Recovery = 75.20%			
72) 2,4,6-Tribromophenol	8.327	330	119481	75.55	ppm	-0.02
Spiked Amount 100.000	Range 42 - 108		Recovery = 75.55%			
86) Terphenyl-d14	10.358	244	587425	46.36	ppm	0.01
Spiked Amount 50.000	Range 45 - 119		Recovery = 92.72%			

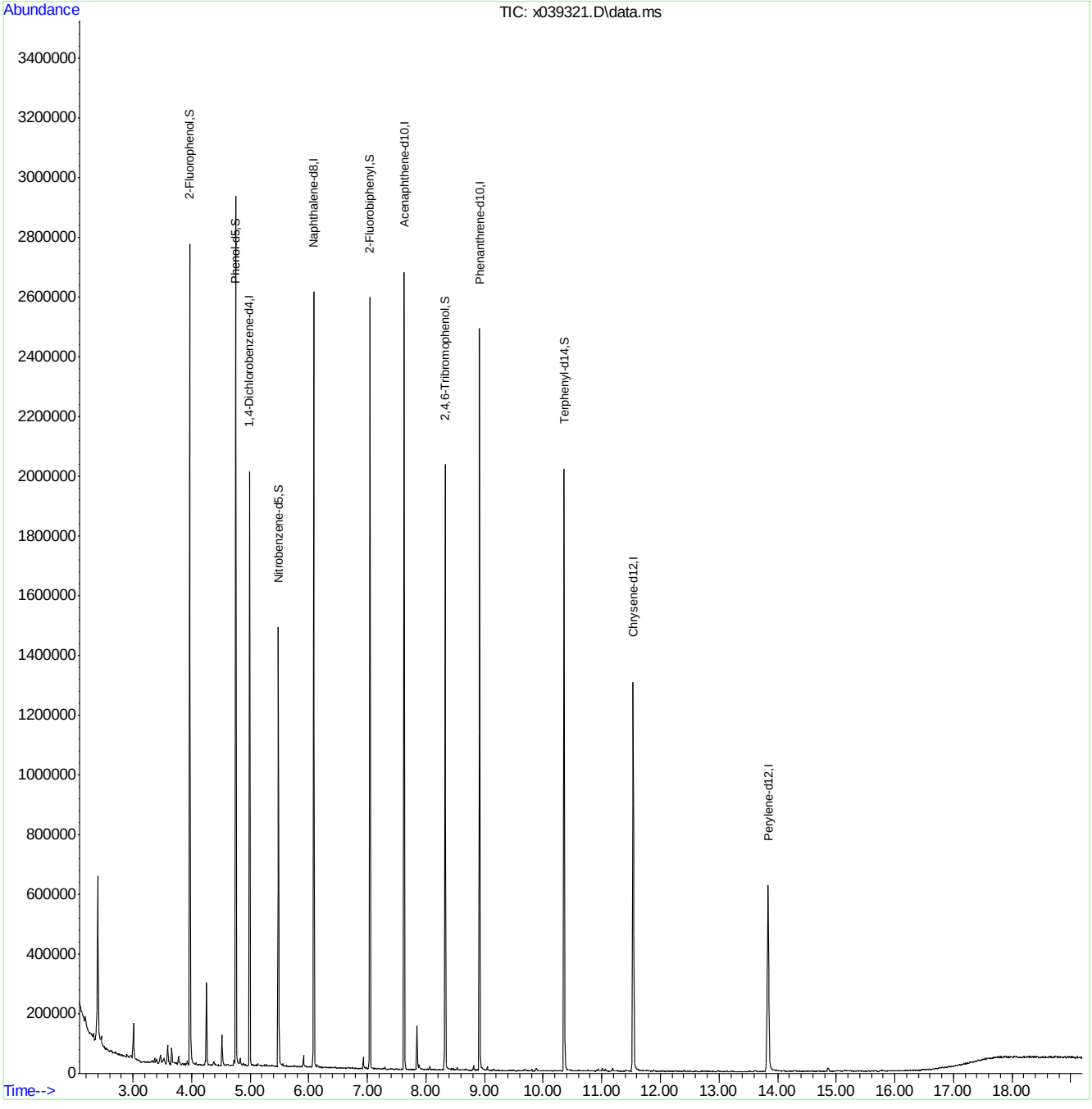
Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\sx1828\
Data File : x039321.D
Acq On : 1 Apr 2015 5:41 pm
Operator : marthav
Sample : fa23189-31
Misc : op55531,sx1828,29.7,,,1,1,soil
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Apr 02 09:37:41 2015
Quant Method : C:\msdchem\1\METHODS\8270d_03302.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Tue Mar 31 09:29:41 2015
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\sx1828\
Data File : x039322.D
Acq On : 1 Apr 2015 6:06 pm
Operator : marthav
Sample : fa23189-33
Misc : op55531,sx1828,30.1,,,1,1,soil
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Apr 02 09:38:45 2015
Quant Method : C:\msdchem\1\METHODS\8270d_03302.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Tue Mar 31 09:29:41 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.991	152	238185	40.00	ppm	0.00
22) Naphthalene-d8	6.085	136	910975	40.00	ppm	0.00
41) Acenaphthene-d10	7.628	164	493041	40.00	ppm	0.00
67) Phenanthrene-d10	8.915	188	738115	40.00	ppm	0.00
83) Chrysene-d12	11.535	240	586049	40.00	ppm	-0.01
92) Perylene-d12	13.839	264	392660	40.00	ppm	-0.01
System Monitoring Compounds						
5) 2-Fluorophenol	3.965	112	587748	68.92	ppm	0.00
Spiked Amount 100.000	Range 40 - 102		Recovery = 68.92%			
9) Phenol-d5	4.755	99	753407	86.87	ppm	0.00
Spiked Amount 100.000	Range 41 - 100		Recovery = 86.87%			
23) Nitrobenzene-d5	5.482	82	337140	34.94	ppm	-0.01
Spiked Amount 50.000	Range 40 - 105		Recovery = 69.88%			
45) 2-Fluorobiphenyl	7.042	172	598547	35.82	ppm	-0.01
Spiked Amount 50.000	Range 43 - 107		Recovery = 71.64%			
72) 2,4,6-Tribromophenol	8.327	330	133149	80.31	ppm	-0.02
Spiked Amount 100.000	Range 42 - 108		Recovery = 80.31%			
86) Terphenyl-d14	10.355	244	617114	46.08	ppm	0.00
Spiked Amount 50.000	Range 45 - 119		Recovery = 92.16%			

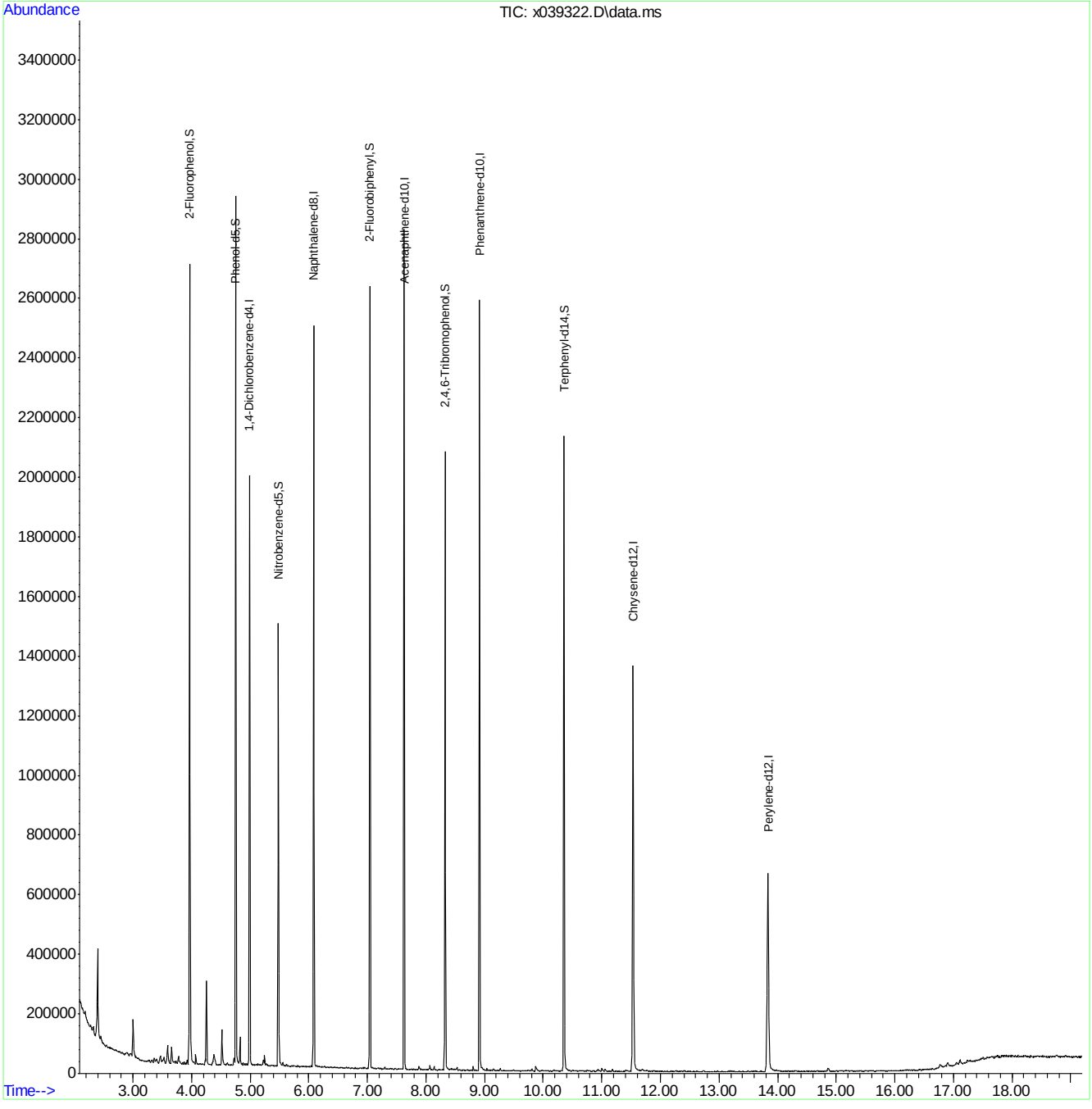
Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\sx1828\
Data File : x039322.D
Acq On : 1 Apr 2015 6:06 pm
Operator : marthav
Sample : fa23189-33
Misc : op55531,sx1828,30.1,,,1,1,soil
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Apr 02 09:38:45 2015
Quant Method : C:\msdchem\1\METHODS\8270d_03302.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Tue Mar 31 09:29:41 2015
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\sx1828\
Data File : x039323.D
Acq On : 1 Apr 2015 6:30 pm
Operator : marthav
Sample : fa23189-35
Misc : op55531,sx1828,29.6,,,1,1,soil
ALS Vial : 22 Sample Multiplier: 1

Quant Time: Apr 02 09:39:45 2015
Quant Method : C:\msdchem\1\METHODS\8270d_03302.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Tue Mar 31 09:29:41 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.991	152	244510	40.00	ppm	0.00
22) Naphthalene-d8	6.085	136	944316	40.00	ppm	0.00
41) Acenaphthene-d10	7.628	164	496151	40.00	ppm	0.00
67) Phenanthrene-d10	8.915	188	752939	40.00	ppm	0.00
83) Chrysene-d12	11.532	240	581086	40.00	ppm	-0.01
92) Perylene-d12	13.836	264	381351	40.00	ppm	-0.01
System Monitoring Compounds						
5) 2-Fluorophenol	3.968	112	610309	69.72	ppm	0.00
Spiked Amount 100.000	Range 40 - 102		Recovery = 69.72%			
9) Phenol-d5	4.755	99	780456	87.66	ppm	0.00
Spiked Amount 100.000	Range 41 - 100		Recovery = 87.66%			
23) Nitrobenzene-d5	5.482	82	351106	35.10	ppm	-0.01
Spiked Amount 50.000	Range 40 - 105		Recovery = 70.20%			
45) 2-Fluorobiphenyl	7.042	172	620510	36.90	ppm	-0.01
Spiked Amount 50.000	Range 43 - 107		Recovery = 73.80%			
72) 2,4,6-Tribromophenol	8.327	330	128330	75.88	ppm	-0.02
Spiked Amount 100.000	Range 42 - 108		Recovery = 75.88%			
86) Terphenyl-d14	10.353	244	597680	45.01	ppm	0.00
Spiked Amount 50.000	Range 45 - 119		Recovery = 90.02%			

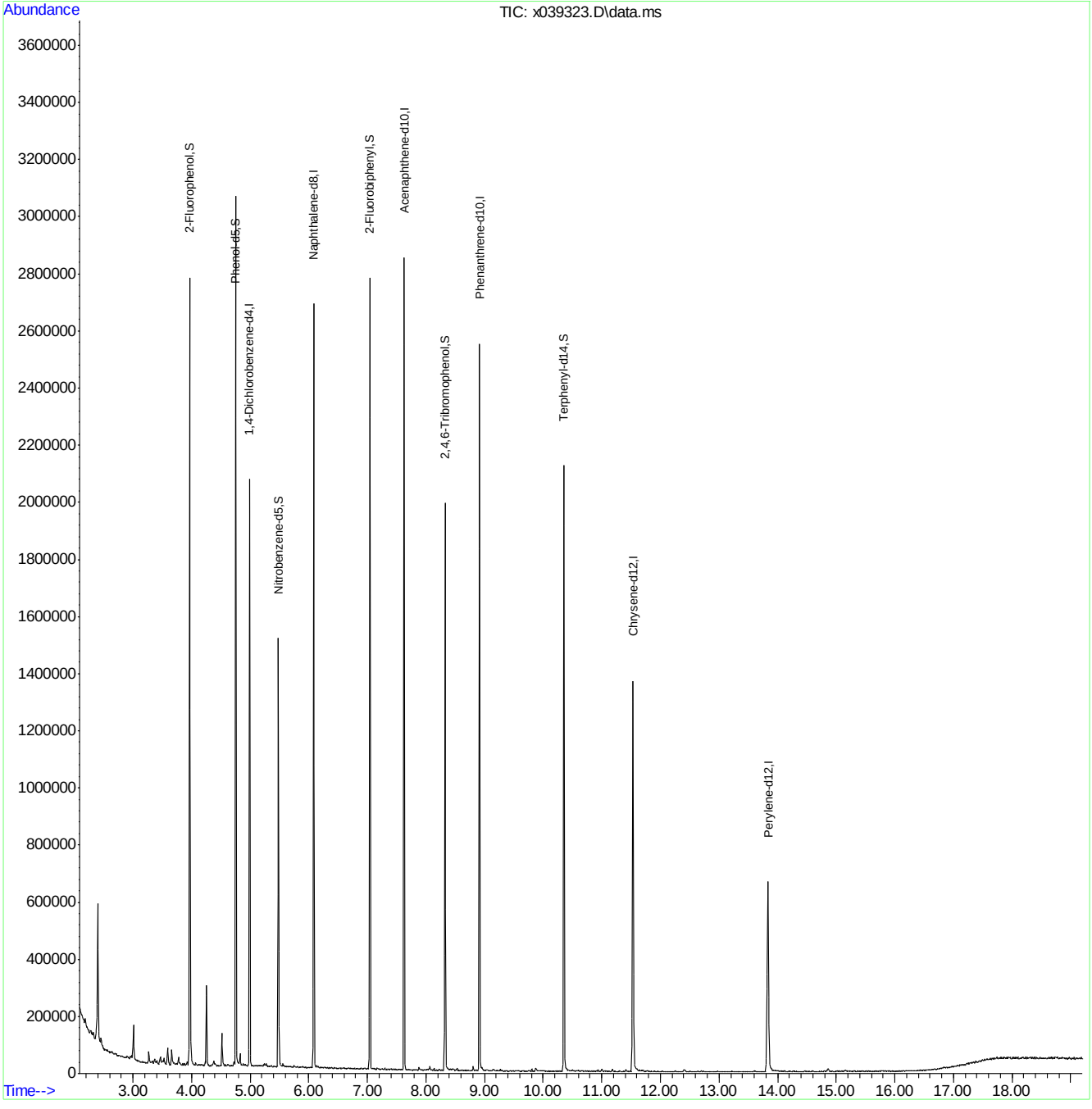
Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\sx1828\
Data File : x039323.D
Acq On : 1 Apr 2015 6:30 pm
Operator : marthav
Sample : fa23189-35
Misc : op55531,sx1828,29.6,,,1,1,soil
ALS Vial : 22 Sample Multiplier: 1

Quant Time: Apr 02 09:39:45 2015
Quant Method : C:\msdchem\1\METHODS\8270d_03302.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Tue Mar 31 09:29:41 2015
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\sx1828\
Data File : x039324.D
Acq On : 1 Apr 2015 6:55 pm
Operator : marthav
Sample : fa23189-37
Misc : op55531,sx1828,30.0,,,1,1,soil
ALS Vial : 23 Sample Multiplier: 1

Quant Time: Apr 02 09:40:35 2015
Quant Method : C:\msdchem\1\METHODS\8270d_03302.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Tue Mar 31 09:29:41 2015
Response via : Initial Calibration

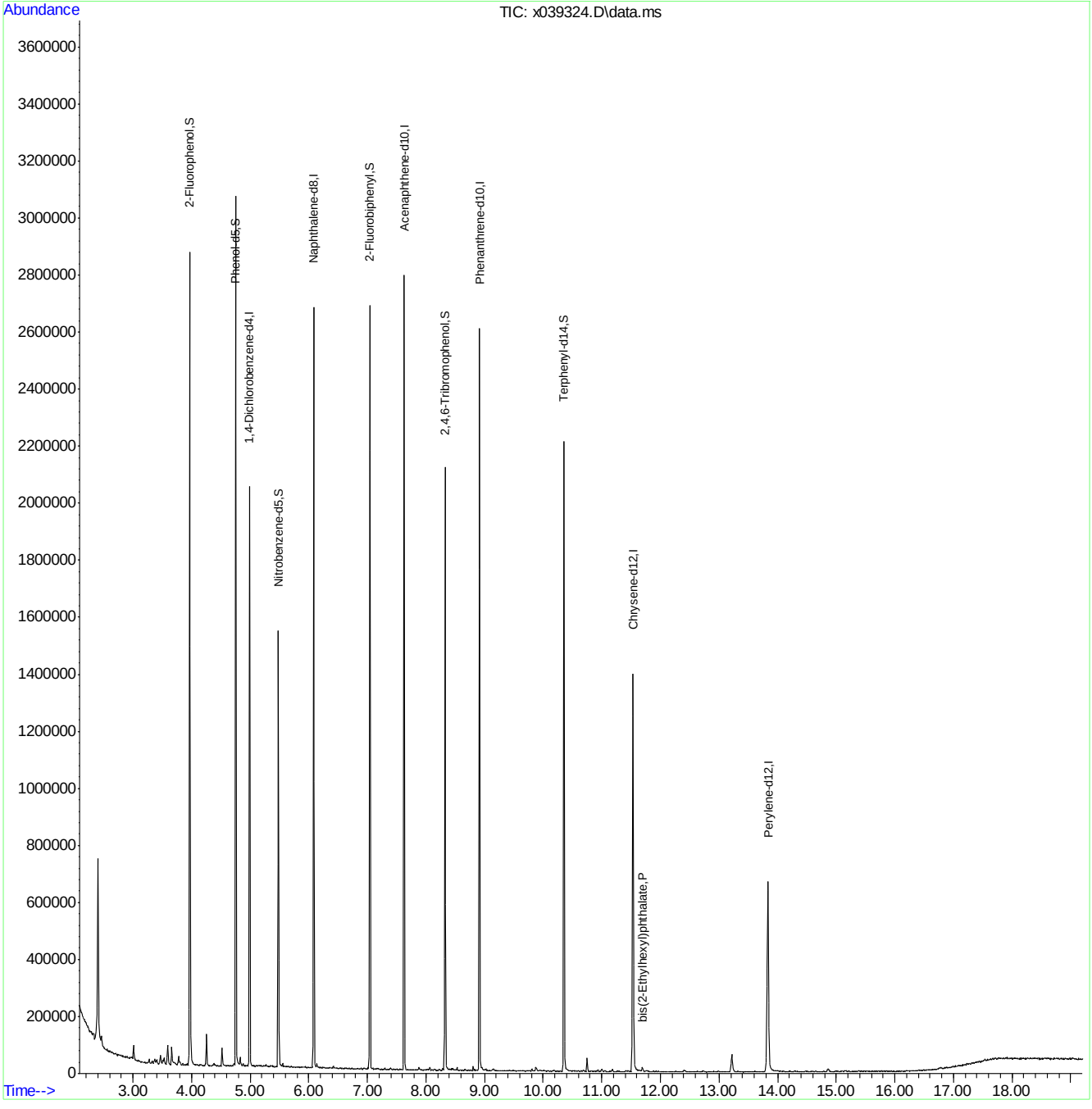
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.988	152	248147	40.00	ppm	0.00
22) Naphthalene-d8	6.085	136	941078	40.00	ppm	0.00
41) Acenaphthene-d10	7.628	164	500321	40.00	ppm	0.00
67) Phenanthrene-d10	8.915	188	750430	40.00	ppm	0.00
83) Chrysene-d12	11.532	240	591107	40.00	ppm	-0.01
92) Perylene-d12	13.836	264	385482	40.00	ppm	-0.01
System Monitoring Compounds						
5) 2-Fluorophenol	3.968	112	611920	68.88	ppm	0.00
Spiked Amount 100.000	Range 40 - 102		Recovery = 68.88%			
9) Phenol-d5	4.755	99	780490	86.38	ppm	0.00
Spiked Amount 100.000	Range 41 - 100		Recovery = 86.38%			
23) Nitrobenzene-d5	5.482	82	355795	35.69	ppm	-0.01
Spiked Amount 50.000	Range 40 - 105		Recovery = 71.38%			
45) 2-Fluorobiphenyl	7.042	172	617037	36.39	ppm	-0.01
Spiked Amount 50.000	Range 43 - 107		Recovery = 72.78%			
72) 2,4,6-Tribromophenol	8.327	330	135966	80.66	ppm	-0.02
Spiked Amount 100.000	Range 42 - 108		Recovery = 80.66%			
86) Terphenyl-d14	10.353	244	640834	47.45	ppm	0.00
Spiked Amount 50.000	Range 45 - 119		Recovery = 94.90%			
Target Compounds						Qvalue
91) bis(2-Ethylhexyl)phtha...	11.694	149	4857	0.35	ppm	88

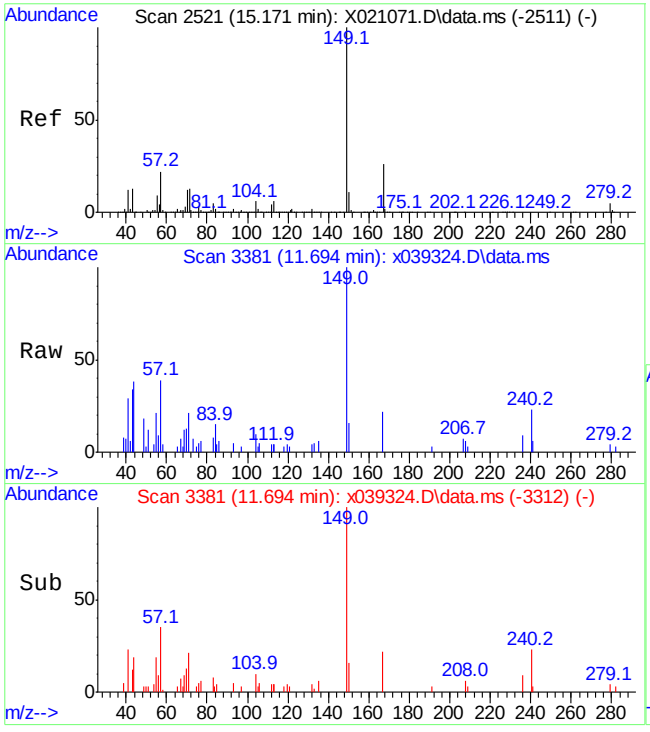
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\sx1828\
Data File : x039324.D
Acq On : 1 Apr 2015 6:55 pm
Operator : marthav
Sample : fa23189-37
Misc : op55531,sx1828,30.0,,,1,1,soil
ALS Vial : 23 Sample Multiplier: 1

Quant Time: Apr 02 09:40:35 2015
Quant Method : C:\msdchem\1\METHODS\8270d_03302.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Tue Mar 31 09:29:41 2015
Response via : Initial Calibration

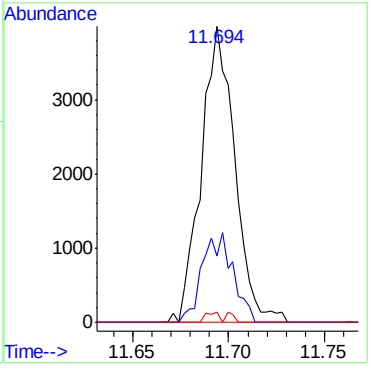




#91
bis(2-Ethylhexyl)phthalate
Concen: 0.35 ppm
RT: 11.694 min Scan# 3381
Delta R.T. -0.005 min
Lab File: x039324.D
Acq: 1 Apr 2015 6:55 pm

Tgt Ion:149 Resp: 4857

Ion	Ratio	Lower	Upper
149	100		
167	22.4	0.0	59.2
279	3.5	0.0	35.6



7.1.20

7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\sx1828\
Data File : x039325.D
Acq On : 1 Apr 2015 7:20 pm
Operator : marthav
Sample : fa23189-39
Misc : op55531,sx1828,30.0,,,1,1,soil
ALS Vial : 24 Sample Multiplier: 1

Quant Time: Apr 02 09:41:48 2015
Quant Method : C:\msdchem\1\METHODS\8270d_03302.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Tue Mar 31 09:29:41 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.991	152	250163	40.00	ppm	0.00
22) Naphthalene-d8	6.085	136	967006	40.00	ppm	0.00
41) Acenaphthene-d10	7.628	164	502639	40.00	ppm	0.00
67) Phenanthrene-d10	8.915	188	755300	40.00	ppm	0.00
83) Chrysene-d12	11.535	240	600419	40.00	ppm	-0.01
92) Perylene-d12	13.836	264	412678	40.00	ppm	-0.01
System Monitoring Compounds						
5) 2-Fluorophenol	3.968	112	715378	79.87	ppm	0.00
Spiked Amount 100.000	Range 40 - 102		Recovery = 79.87%			
9) Phenol-d5	4.755	99	907153	99.59	ppm	0.00
Spiked Amount 100.000	Range 41 - 100		Recovery = 99.59%			
23) Nitrobenzene-d5	5.482	82	413300	40.35	ppm	-0.01
Spiked Amount 50.000	Range 40 - 105		Recovery = 80.70%			
45) 2-Fluorobiphenyl	7.042	172	725313	42.57	ppm	-0.01
Spiked Amount 50.000	Range 43 - 107		Recovery = 85.14%			
72) 2,4,6-Tribromophenol	8.327	330	163101	96.13	ppm	-0.02
Spiked Amount 100.000	Range 42 - 108		Recovery = 96.13%			
86) Terphenyl-d14	10.355	244	734912	53.57	ppm	0.00
Spiked Amount 50.000	Range 45 - 119		Recovery = 107.14%			
Target Compounds						Qvalue
91) bis(2-Ethylhexyl)phtha...	11.697	149	7654	0.55	ppm	92

(#) = qualifier out of range (m) = manual integration (+) = signals summed

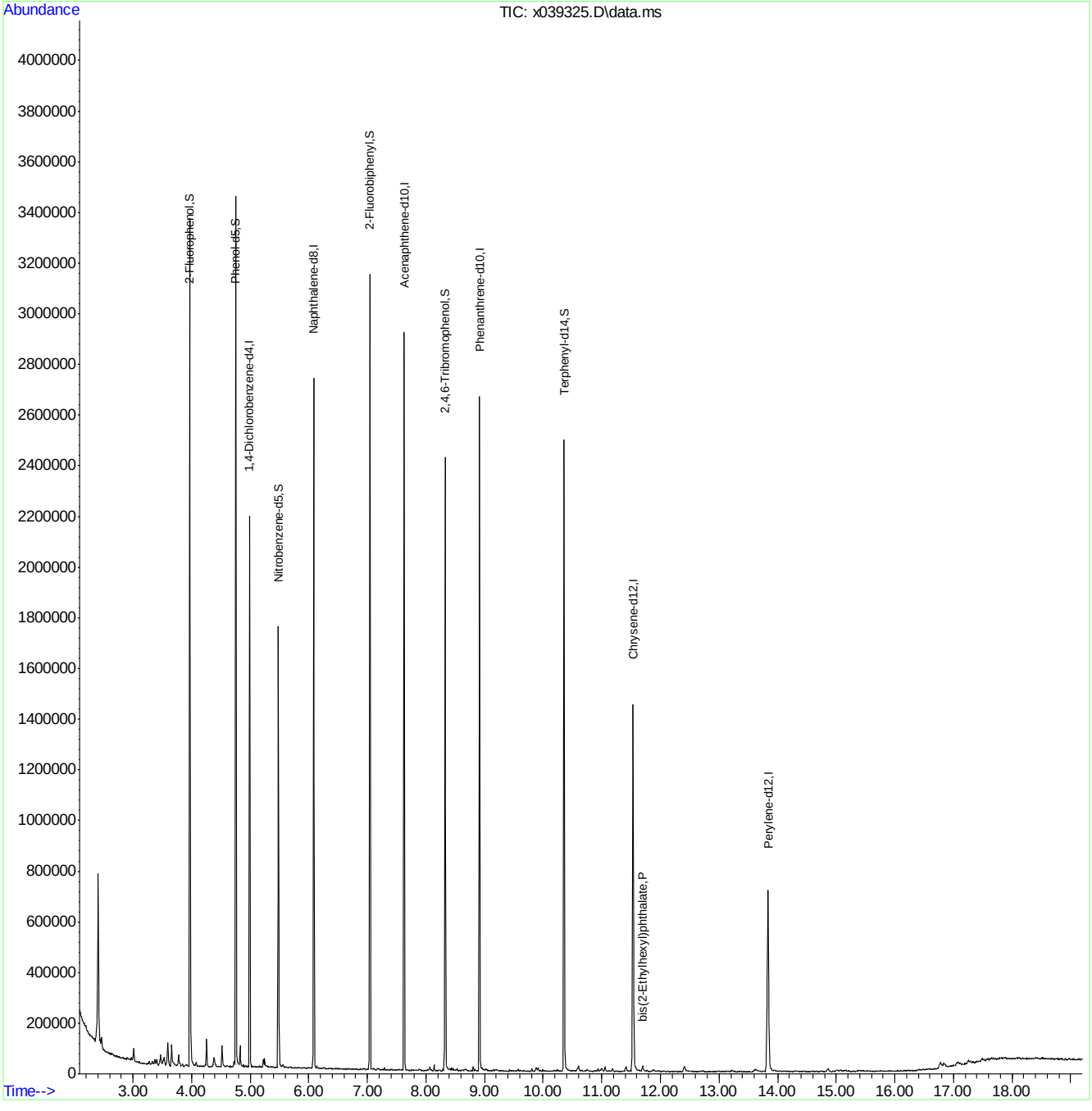
7.1.21

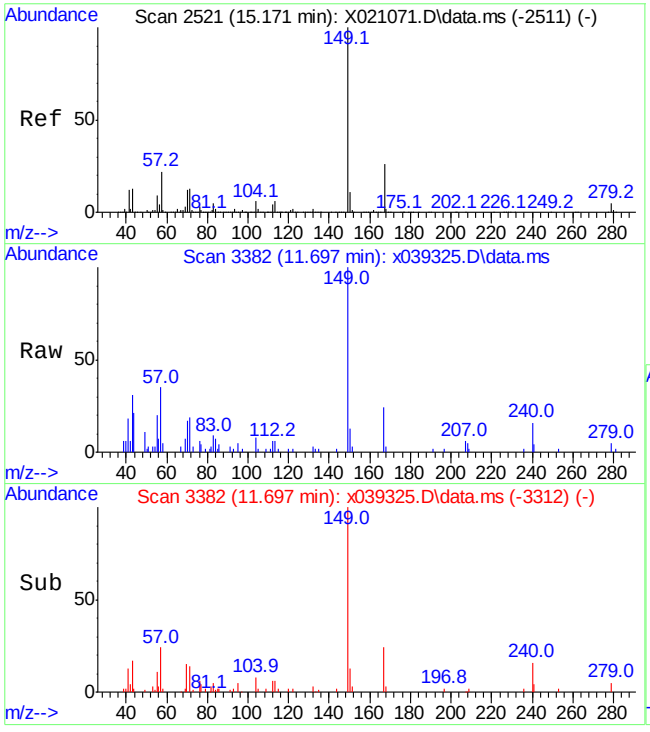
7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\sx1828\
Data File : x039325.D
Acq On : 1 Apr 2015 7:20 pm
Operator : marthav
Sample : fa23189-39
Misc : op55531,sx1828,30.0,,,1,1,soil
ALS Vial : 24 Sample Multiplier: 1

Quant Time: Apr 02 09:41:48 2015
Quant Method : C:\msdchem\1\METHODS\8270d_03302.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Tue Mar 31 09:29:41 2015
Response via : Initial Calibration

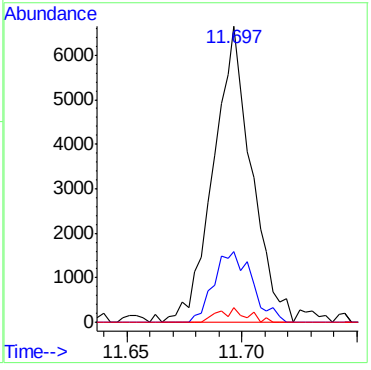




#91
bis(2-Ethylhexyl)phthalate
Concen: 0.55 ppm
RT: 11.697 min Scan# 3382
Delta R.T. -0.002 min
Lab File: x039325.D
Acq: 1 Apr 2015 7:20 pm

Tgt Ion:149 Resp: 7654

Ion	Ratio	Lower	Upper
149	100		
167	24.1	0.0	59.2
279	4.9	0.0	35.6



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\sx1828\
Data File : x039326.D
Acq On : 1 Apr 2015 7:44 pm
Operator : marthav
Sample : fa23189-41
Misc : op55531,sx1828,30.0,,,1,1,soil
ALS Vial : 25 Sample Multiplier: 1

Quant Time: Apr 02 09:44:57 2015
Quant Method : C:\msdchem\1\METHODS\8270d_03302.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Tue Mar 31 09:29:41 2015
Response via : Initial Calibration

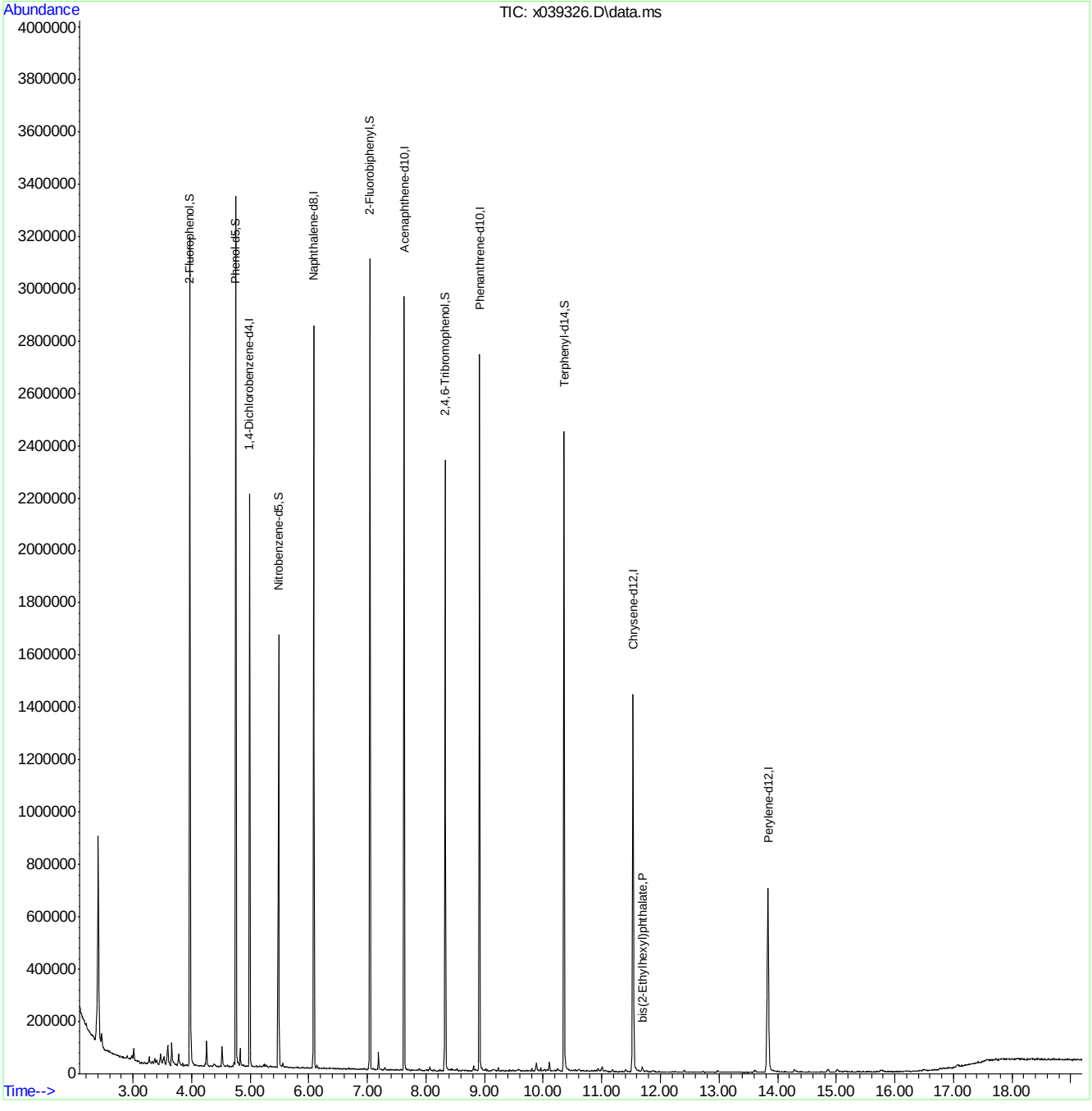
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.991	152	268534	40.00	ppm	0.00
22) Naphthalene-d8	6.085	136	1007172	40.00	ppm	0.00
41) Acenaphthene-d10	7.628	164	537206	40.00	ppm	0.00
67) Phenanthrene-d10	8.915	188	796258	40.00	ppm	0.00
83) Chrysene-d12	11.535	240	617526	40.00	ppm	-0.01
92) Perylene-d12	13.836	264	407672	40.00	ppm	-0.01
System Monitoring Compounds						
5) 2-Fluorophenol	3.971	112	698630	72.67	ppm	0.00
Spiked Amount 100.000	Range 40 - 102		Recovery = 72.67%			
9) Phenol-d5	4.755	99	871743	89.15	ppm	0.00
Spiked Amount 100.000	Range 41 - 100		Recovery = 89.15%			
23) Nitrobenzene-d5	5.485	82	400117	37.51	ppm	0.00
Spiked Amount 50.000	Range 40 - 105		Recovery = 75.02%			
45) 2-Fluorobiphenyl	7.042	172	705189	38.73	ppm	-0.01
Spiked Amount 50.000	Range 43 - 107		Recovery = 77.46%			
72) 2,4,6-Tribromophenol	8.327	330	151531	84.72	ppm	-0.02
Spiked Amount 100.000	Range 42 - 108		Recovery = 84.72%			
86) Terphenyl-d14	10.355	244	692179	49.06	ppm	0.00
Spiked Amount 50.000	Range 45 - 119		Recovery = 98.12%			
Target Compounds						Qvalue
91) bis(2-Ethylhexyl)phtha...	11.694	149	6851	0.47	ppm	90

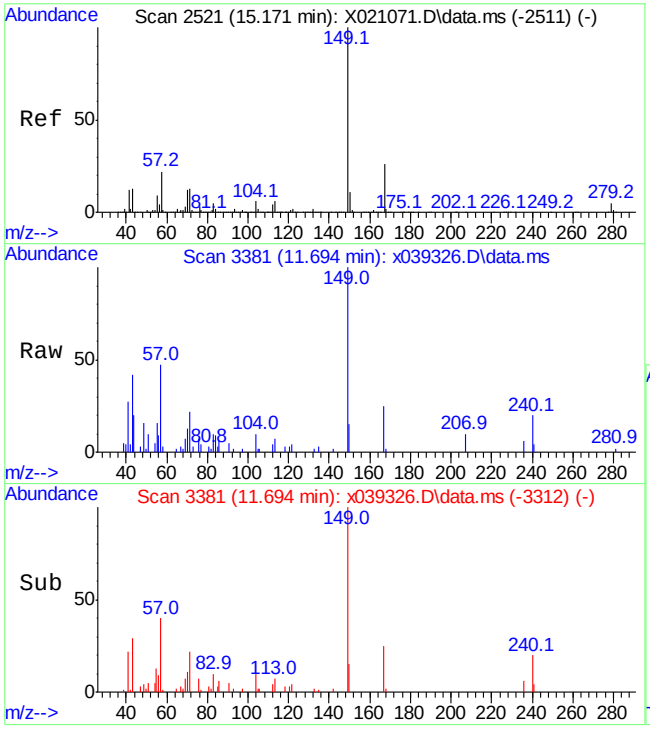
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\sx1828\
Data File : x039326.D
Acq On : 1 Apr 2015 7:44 pm
Operator : marthav
Sample : fa23189-41
Misc : op55531,sx1828,30.0,,,1,1,soil
ALS Vial : 25 Sample Multiplier: 1

Quant Time: Apr 02 09:44:57 2015
Quant Method : C:\msdchem\1\METHODS\8270d_03302.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Tue Mar 31 09:29:41 2015
Response via : Initial Calibration

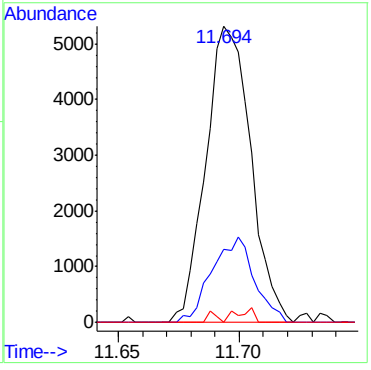




#91
bis(2-Ethylhexyl)phthalate
Concen: 0.47 ppm
RT: 11.694 min Scan# 3381
Delta R.T. -0.005 min
Lab File: x039326.D
Acq: 1 Apr 2015 7:44 pm

Tgt Ion:149 Resp: 6851

Ion	Ratio	Lower	Upper
149	100		
167	24.5	0.0	59.2
279	0.0	0.0	35.6



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\st810\
Data File : T017711.D
Acq On : 6 Apr 2015 12:34 pm
Operator : mayrag
Sample : fa23189-43
Misc : op55540,st810,230,,,1,1,water
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Apr 06 15:48:18 2015
Quant Method : C:\msdchem\1\METHODS\SIM_LV.M
Quant Title : PAH's by 8270 SIM
QLast Update : Mon Apr 06 14:20:40 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Naphthalene-d8	6.370	136	284957	500.00	ppb	0.00
6) Acenaphthene-d10	7.904	164	143493	500.00	ppb	0.00
11) Phenanthrene-d10	9.211	188	235040	500.00	ppb	0.00
17) Chrysene-d12	11.737	240	177264	500.00	ppb	0.00
22) Perylene-d12	13.932	264	108877	500.00	ppb	0.00
System Monitoring Compounds						
2) Nitrobenzene-d5	5.753	82	434530	1650.89	ppb	0.00
Spiked Amount 2000.000	Range 38 - 126		Recovery = 82.54%			
7) 2-Fluorobiphenyl	7.325	172	749951	1603.64	ppb	0.00
Spiked Amount 2000.000	Range 41 - 109		Recovery = 80.18%			
12) 2,4,6-Tribromophenol	8.606	330	145157	2558.28	ppb	0.00
Spiked Amount 4000.000	Range 33 - 118		Recovery = 63.96%			
19) Terphenyl-d14	10.627	244	549799	1611.23	ppb	0.00
Spiked Amount 2000.000	Range 46 - 135		Recovery = 80.56%			

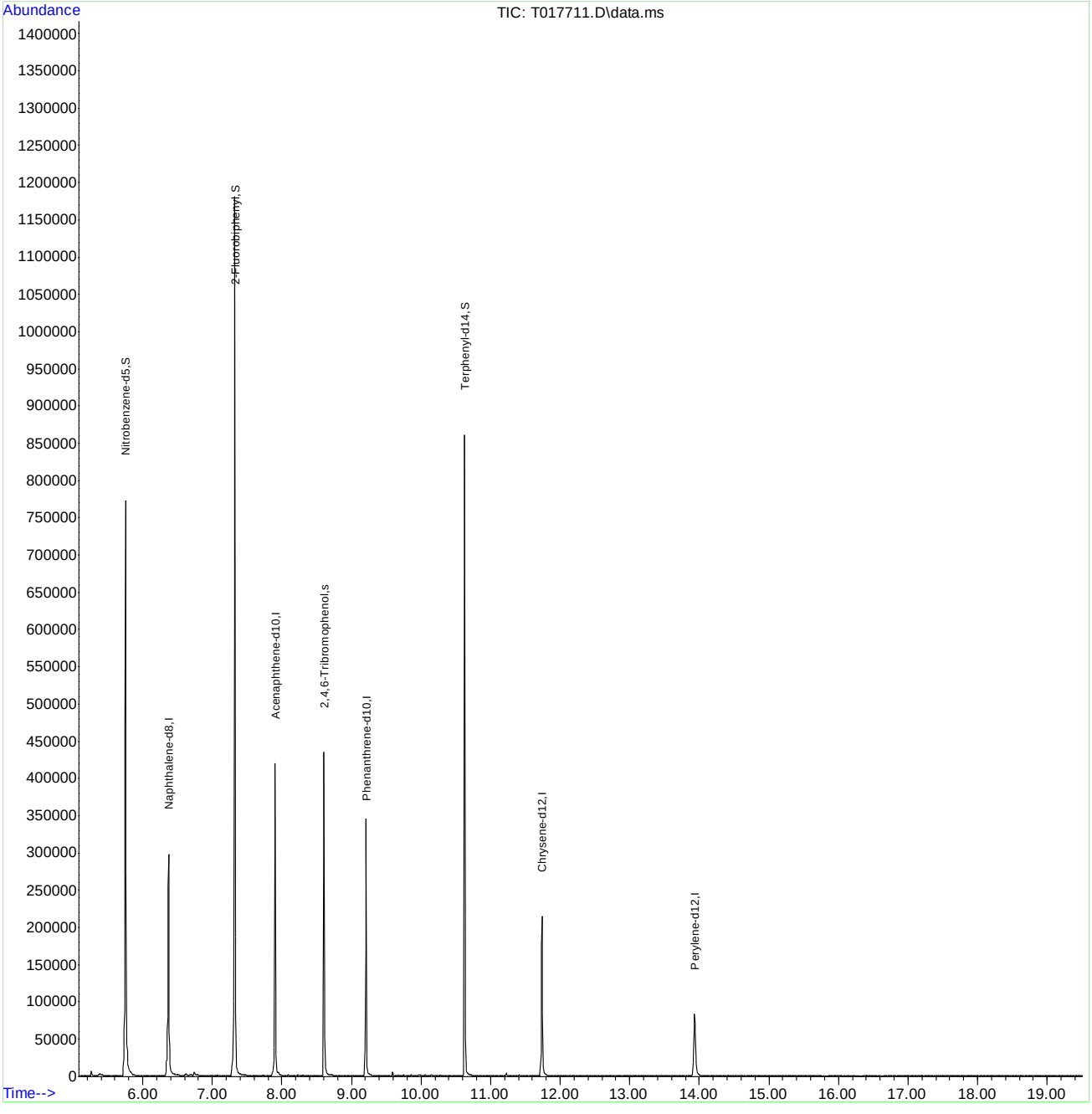
Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\st810\
Data File : T017711.D
Acq On : 6 Apr 2015 12:34 pm
Operator : mayrag
Sample : fa23189-43
Misc : op55540,st810,230,,,1,1,water
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Apr 06 15:48:18 2015
Quant Method : C:\msdchem\1\METHODS\SIM_LV.M
Quant Title : PAH's by 8270 SIM
QLast Update : Mon Apr 06 14:20:40 2015
Response via : Initial Calibration



SIM_LV.M Mon Apr 06 15:52:38 2015 Page: 2

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\sx1827\
Data File : x039275.D
Acq On : 31 Mar 2015 2:43 pm
Operator : marthav
Sample : op55512-mb
Misc : op55512,sx1827,30.0,,,1,1,soil
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Mar 31 15:58:50 2015
Quant Method : C:\msdchem\1\METHODS\8270d_03302.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Tue Mar 31 09:29:41 2015
Response via : Initial Calibration

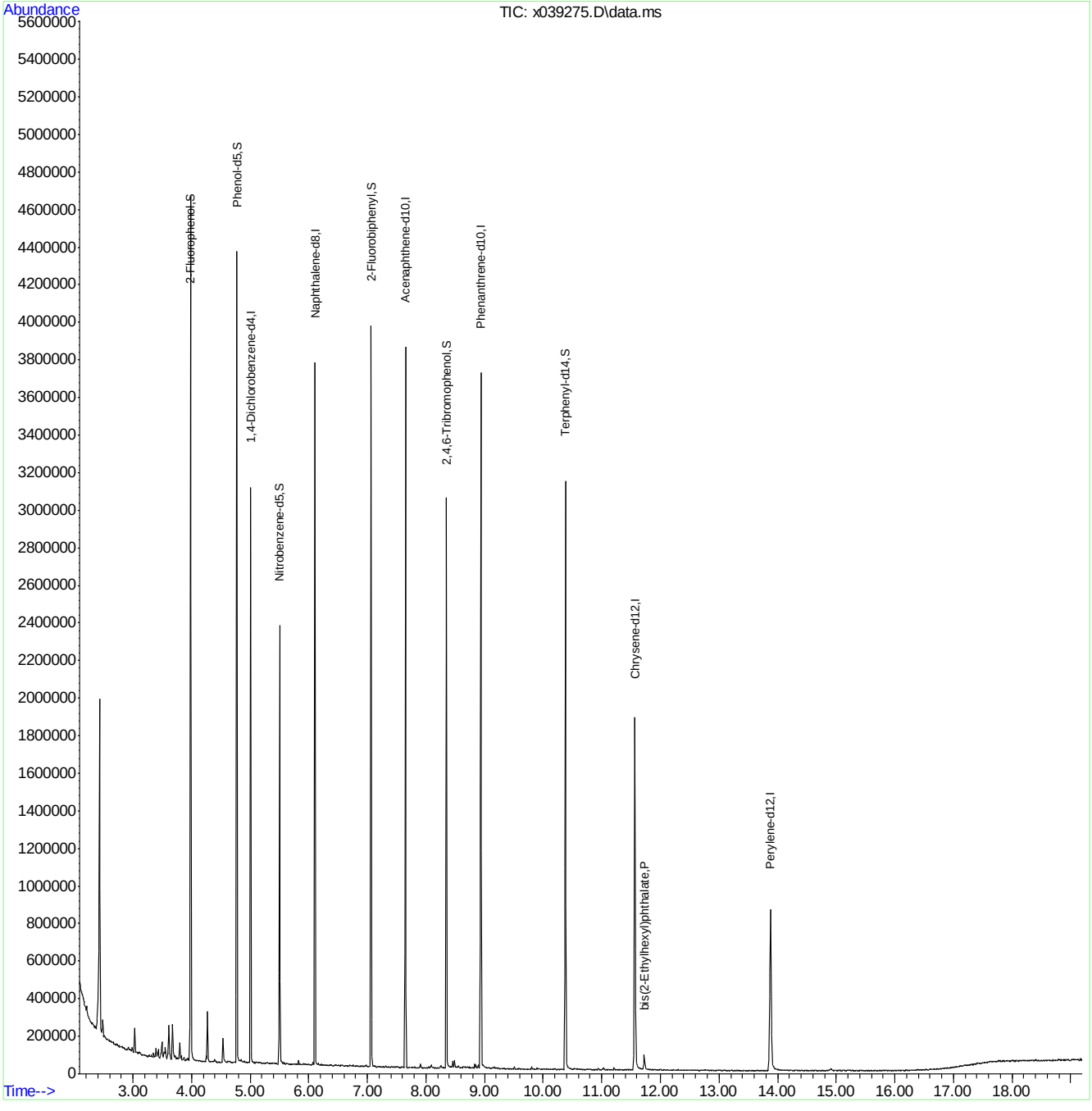
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	5.008	152	353740	40.00	ppm	0.00
22) Naphthalene-d8	6.105	136	1329610	40.00	ppm	0.00
41) Acenaphthene-d10	7.650	164	710886	40.00	ppm	0.00
67) Phenanthrene-d10	8.938	188	1060613	40.00	ppm	0.00
83) Chrysene-d12	11.566	240	804242	40.00	ppm	0.00
92) Perylene-d12	13.879	264	494028	40.00	ppm	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	3.982	112	915107	72.26	ppm	0.00
Spiked Amount 100.000	Range 40 - 102		Recovery = 72.26%			
9) Phenol-d5	4.772	99	1134206	88.05	ppm	0.00
Spiked Amount 100.000	Range 41 - 100		Recovery = 88.05%			
23) Nitrobenzene-d5	5.502	82	523830	37.19	ppm	-0.01
Spiked Amount 50.000	Range 40 - 105		Recovery = 74.38%			
45) 2-Fluorobiphenyl	7.062	172	949696	39.42	ppm	0.00
Spiked Amount 50.000	Range 43 - 107		Recovery = 78.84%			
72) 2,4,6-Tribromophenol	8.349	330	201341	84.51	ppm	-0.01
Spiked Amount 100.000	Range 42 - 108		Recovery = 84.51%			
86) Terphenyl-d14	10.378	244	912393	49.65	ppm	0.00
Spiked Amount 50.000	Range 45 - 119		Recovery = 99.30%			
Target Compounds						Qvalue
91) bis(2-Ethylhexyl)phtha...	11.728	149	27664	1.47	ppm	97

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\sx1827\
Data File : x039275.D
Acq On : 31 Mar 2015 2:43 pm
Operator : marthav
Sample : op55512-mb
Misc : op55512,sx1827,30.0,,,1,1,soil
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Mar 31 15:58:50 2015
Quant Method : C:\msdchem\1\METHODS\8270d_03302.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Tue Mar 31 09:29:41 2015
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\sx1828\
Data File : x039306.D
Acq On : 1 Apr 2015 11:08 am
Operator : marthav
Sample : op55531-mb
Misc : op55531,sx1828,30.0,,,1,1,soil
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Apr 02 09:06:57 2015
Quant Method : C:\msdchem\1\METHODS\8270d_03302.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Tue Mar 31 09:29:41 2015
Response via : Initial Calibration

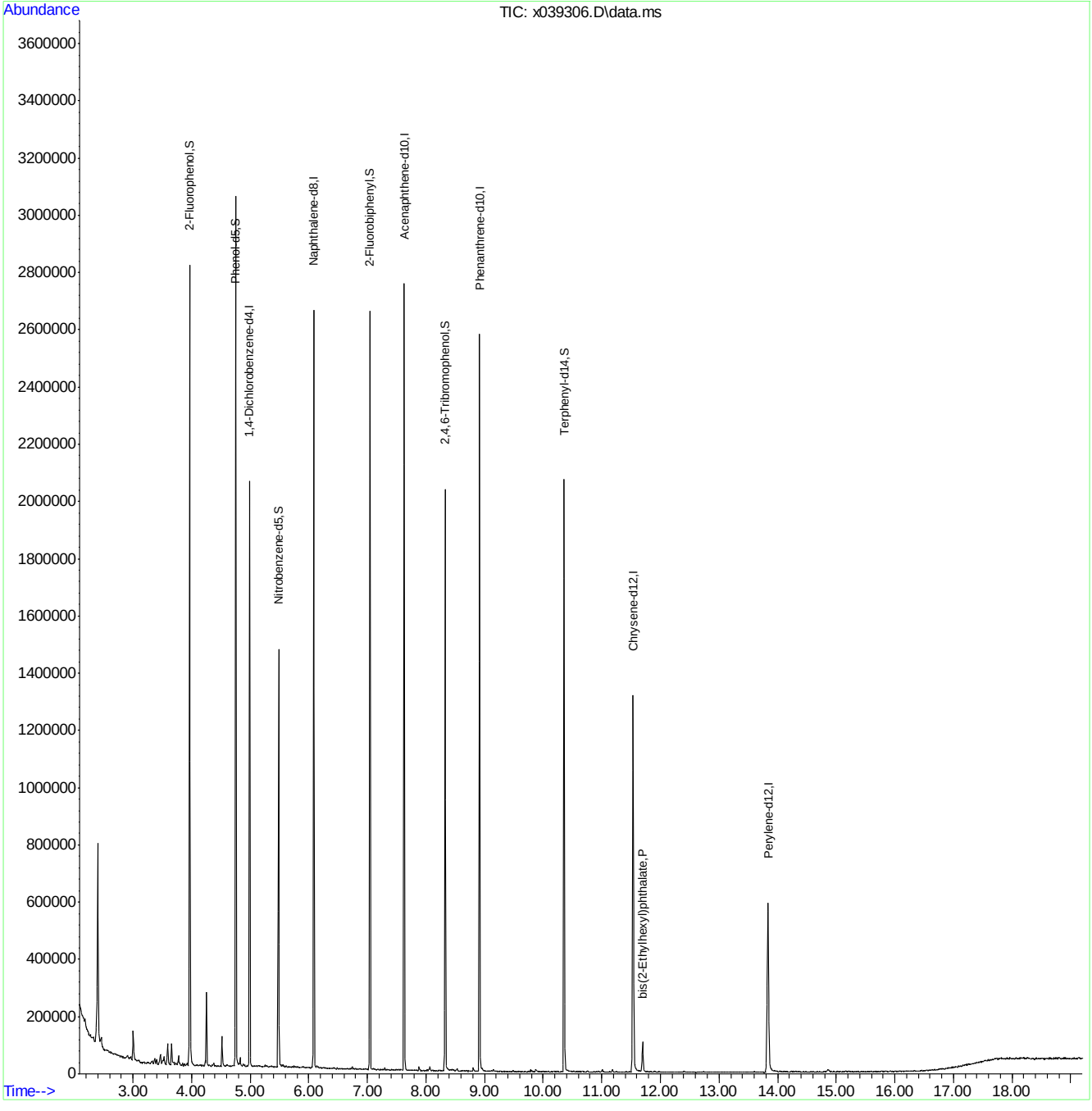
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.991	152	242947	40.00	ppm	0.00
22) Naphthalene-d8	6.085	136	932907	40.00	ppm	0.00
41) Acenaphthene-d10	7.628	164	502089	40.00	ppm	0.00
67) Phenanthrene-d10	8.915	188	738884	40.00	ppm	0.00
83) Chrysene-d12	11.535	240	561277	40.00	ppm	-0.01
92) Perylene-d12	13.836	264	349444	40.00	ppm	-0.01
System Monitoring Compounds						
5) 2-Fluorophenol	3.968	112	584326	67.18	ppm	0.00
Spiked Amount 100.000	Range 40 - 102		Recovery = 67.18%			
9) Phenol-d5	4.755	99	763700	86.33	ppm	0.00
Spiked Amount 100.000	Range 41 - 100		Recovery = 86.33%			
23) Nitrobenzene-d5	5.485	82	343195	34.73	ppm	0.00
Spiked Amount 50.000	Range 40 - 105		Recovery = 69.46%			
45) 2-Fluorobiphenyl	7.042	172	611515	35.93	ppm	-0.01
Spiked Amount 50.000	Range 43 - 107		Recovery = 71.86%			
72) 2,4,6-Tribromophenol	8.327	330	130151	78.42	ppm	-0.02
Spiked Amount 100.000	Range 42 - 108		Recovery = 78.42%			
86) Terphenyl-d14	10.355	244	580924	45.30	ppm	0.00
Spiked Amount 50.000	Range 45 - 119		Recovery = 90.60%			
Target Compounds						Qvalue
91) bis(2-Ethylhexyl)phtha...	11.699	149	36136	2.75	ppm	97

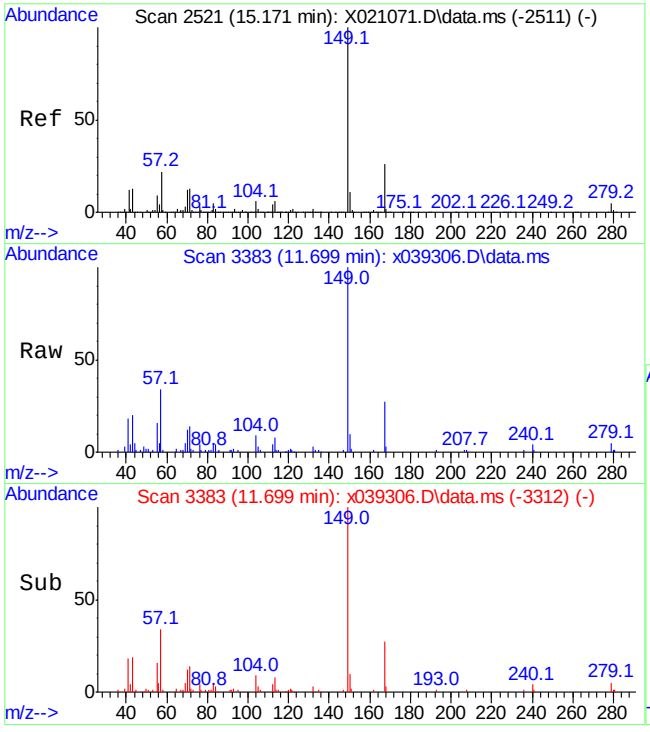
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\sx1828\
Data File : x039306.D
Acq On : 1 Apr 2015 11:08 am
Operator : marthav
Sample : op55531-mb
Misc : op55531,sx1828,30.0,,,1,1,soil
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Apr 02 09:06:57 2015
Quant Method : C:\msdchem\1\METHODS\8270d_03302.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Tue Mar 31 09:29:41 2015
Response via : Initial Calibration

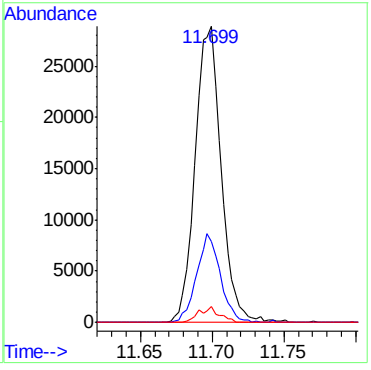




#91
bis(2-Ethylhexyl)phthalate
Concen: 2.75 ppm
RT: 11.699 min Scan# 3383
Delta R.T. 0.000 min
Lab File: x039306.D
Acq: 1 Apr 2015 11:08 am

Tgt Ion:149 Resp: 36136

Ion	Ratio	Lower	Upper
149	100		
167	27.1	0.0	59.2
279	5.4	0.0	35.6



7.2.2

7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\st810\
Data File : T017710.D
Acq On : 6 Apr 2015 12:03 pm
Operator : mayrag
Sample : op55540-mb
Misc : op55540,st810,250,,,1,1,water
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Apr 06 15:48:03 2015
Quant Method : C:\msdchem\1\METHODS\SIM_LV.M
Quant Title : PAH's by 8270 SIM
QLast Update : Mon Apr 06 14:20:40 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Naphthalene-d8	6.369	136	281092	500.00	ppb	0.00
6) Acenaphthene-d10	7.904	164	146539	500.00	ppb	0.00
11) Phenanthrene-d10	9.209	188	238770	500.00	ppb	0.00
17) Chrysene-d12	11.737	240	175661	500.00	ppb	0.00
22) Perylene-d12	13.932	264	109204	500.00	ppb	0.00
System Monitoring Compounds						
2) Nitrobenzene-d5	5.756	82	436019	1679.33	ppb	0.00
Spiked Amount 2000.000	Range 38 - 126		Recovery = 83.97%			
7) 2-Fluorobiphenyl	7.325	172	762348	1596.26	ppb	0.00
Spiked Amount 2000.000	Range 41 - 109		Recovery = 79.81%			
12) 2,4,6-Tribromophenol	8.606	330	154809	2686.46	ppb	0.00
Spiked Amount 4000.000	Range 33 - 118		Recovery = 67.16%			
19) Terphenyl-d14	10.625	244	566173	1674.35	ppb	0.00
Spiked Amount 2000.000	Range 46 - 135		Recovery = 83.72%			

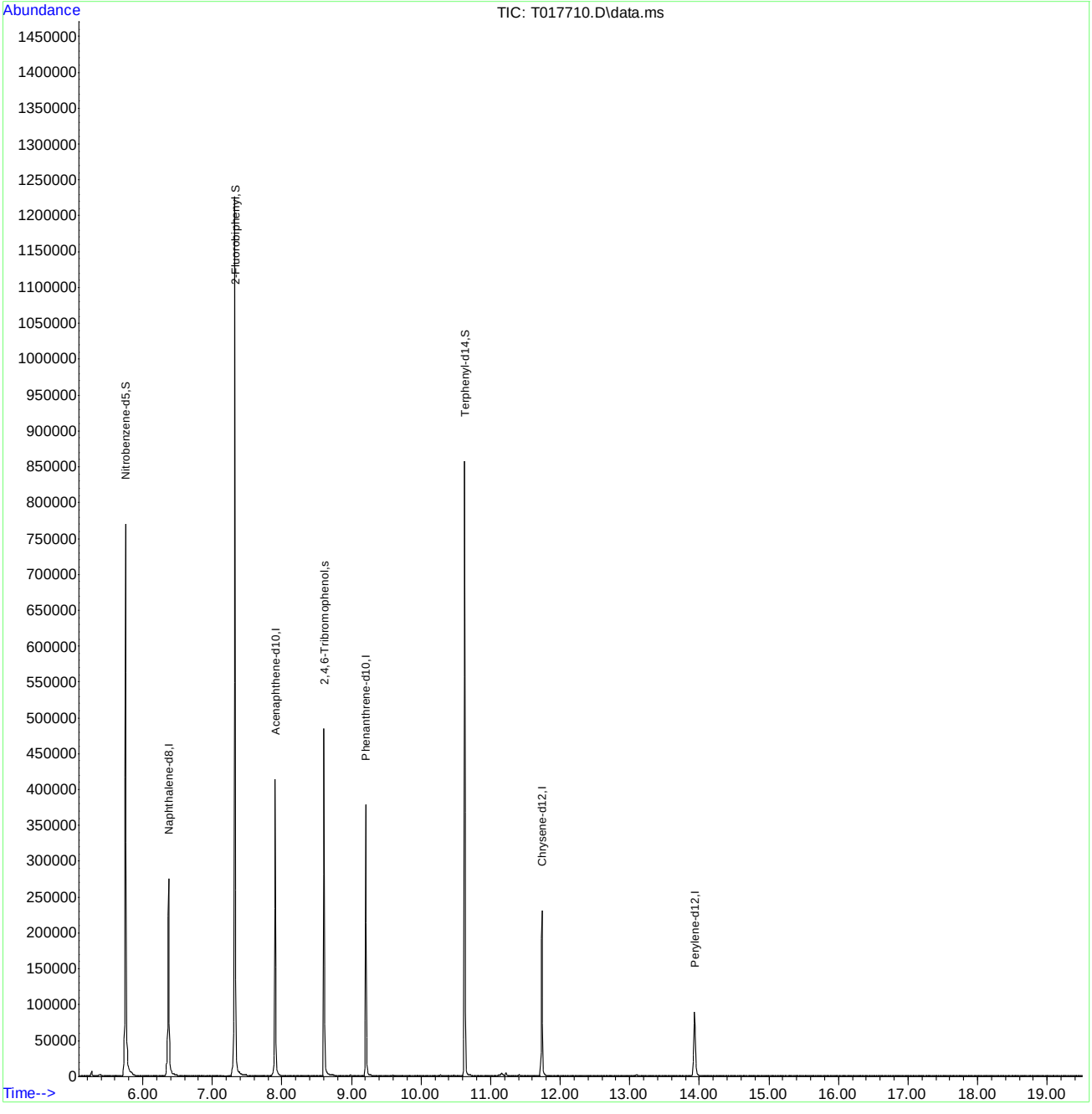
Target Compounds	Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\st810\
Data File : T017710.D
Acq On : 6 Apr 2015 12:03 pm
Operator : mayrag
Sample : op55540-mb
Misc : op55540,st810,250,,,1,1,water
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Apr 06 15:48:03 2015
Quant Method : C:\msdchem\1\METHODS\SIM_LV.M
Quant Title : PAH's by 8270 SIM
QLast Update : Mon Apr 06 14:20:40 2015
Response via : Initial Calibration



SIM_LV.M Mon Apr 06 15:52:36 2015 Page: 2

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\st811\
Data File : T017726.D
Acq On : 7 Apr 2015 11:39 am
Operator : mayrag
Sample : op55540-mb
Misc : op55540,st811,250,,,1,1,water
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Apr 08 09:35:06 2015
Quant Method : C:\msdchem\1\METHODS\SIM_LV.M
Quant Title : PAH's by 8270 SIM
QLast Update : Wed Apr 08 09:06:52 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) Naphthalene-d8	6.370	136	289481	500.00 ppb	0.00
6) Acenaphthene-d10	7.904	164	153151	500.00 ppb	0.00
11) Phenanthrene-d10	9.206	188	239476	500.00 ppb	0.00
17) Chrysene-d12	11.735	240	185366	500.00 ppb	0.00
22) Perylene-d12	13.929	264	134123	500.00 ppb	0.00
System Monitoring Compounds					
2) Nitrobenzene-d5	5.753	82	449069	1679.47 ppb	0.00
Spiked Amount 2000.000	Range 38 - 126		Recovery =	83.97%	
7) 2-Fluorobiphenyl	7.325	172	770721	1544.12 ppb	0.00
Spiked Amount 2000.000	Range 41 - 109		Recovery =	77.21%	
12) 2,4,6-Tribromophenol	8.606	330	170125	2945.08 ppb	0.00
Spiked Amount 4000.000	Range 33 - 118		Recovery =	73.63%	
19) Terphenyl-d14	10.627	244	560062	1569.56 ppb	0.00
Spiked Amount 2000.000	Range 46 - 135		Recovery =	78.48%	

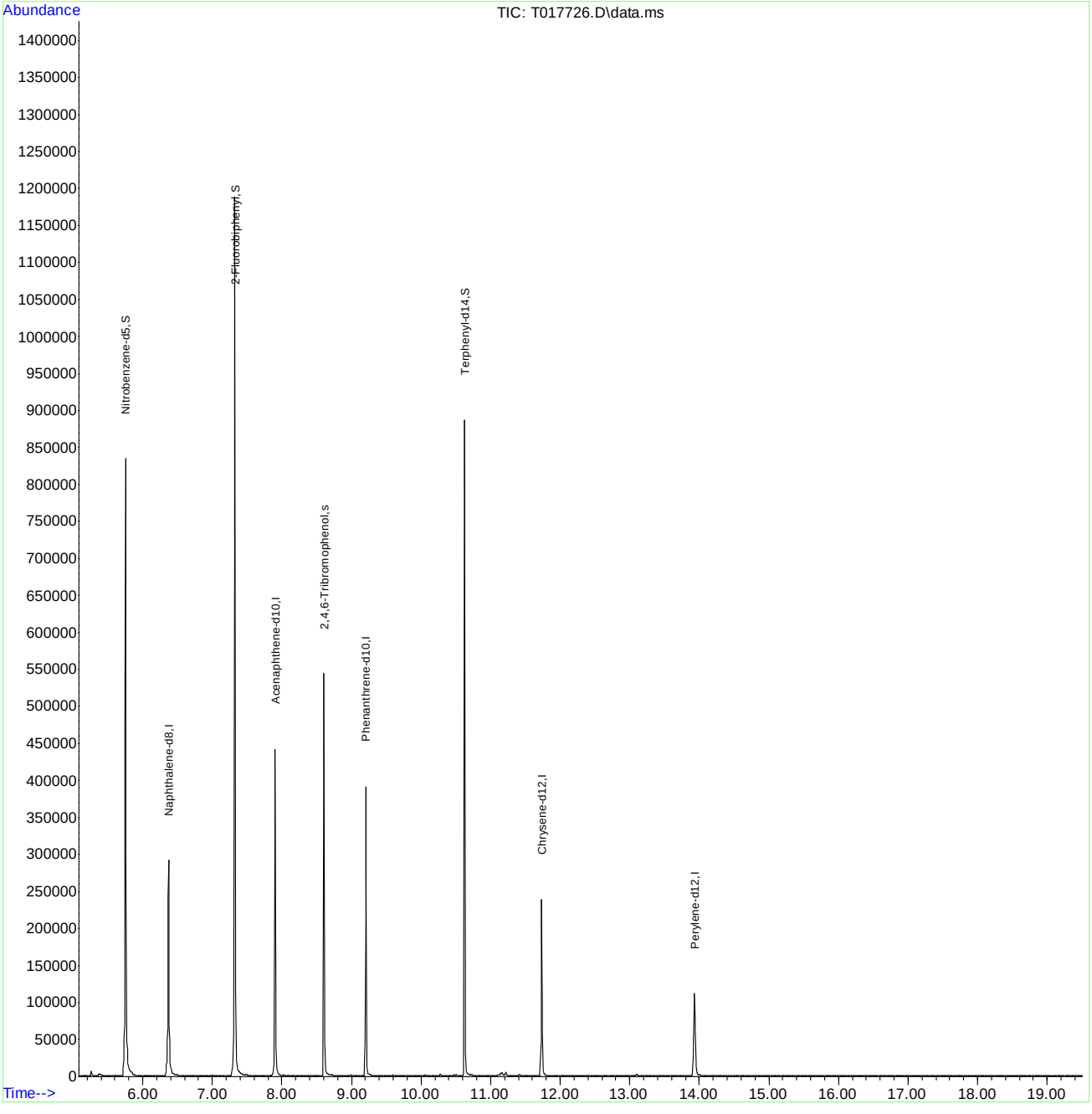
Target Compounds	Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\st811\
Data File : T017726.D
Acq On : 7 Apr 2015 11:39 am
Operator : mayrag
Sample : op55540-mb
Misc : op55540,st811,250,,,1,1,water
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Apr 08 09:35:06 2015
Quant Method : C:\msdchem\1\METHODS\SIM_LV.M
Quant Title : PAH's by 8270 SIM
QLast Update : Wed Apr 08 09:06:52 2015
Response via : Initial Calibration



SIM_LV.M Wed Apr 08 09:35:12 2015 Page: 2

Manual Integrations APPROVED (compounds with "m" flag)
Mike Eger
04/02/15 13:25

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\sx1827\
Data File : x039274.D
Acq On : 31 Mar 2015 2:18 pm
Operator : marthav
Sample : op55512-bs
Misc : op55512,sx1827,30.0,,,1,1,soil
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Mar 31 15:57:18 2015
Quant Method : C:\msdchem\1\METHODS\8270d_03302.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Tue Mar 31 09:29:41 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	5.008	152	340100	40.00	ppm	0.00
22) Naphthalene-d8	6.107	136	1265824	40.00	ppm	0.00
41) Acenaphthene-d10	7.653	164	657504	40.00	ppm	0.00
67) Phenanthrene-d10	8.943	188	992540	40.00	ppm	0.00
83) Chrysene-d12	11.577	240	821563	40.00	ppm	0.00
92) Perylene-d12	13.893	264	546833	40.00	ppm	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	3.979	112	954006	78.35	ppm	0.00
Spiked Amount 100.000	Range 40 - 102		Recovery = 78.35%			
9) Phenol-d5	4.772	99	1166289	94.18	ppm	0.00
Spiked Amount 100.000	Range 41 - 100		Recovery = 94.18%			
23) Nitrobenzene-d5	5.505	82	548505	40.91	ppm	0.00
Spiked Amount 50.000	Range 40 - 105		Recovery = 81.82%			
45) 2-Fluorobiphenyl	7.068	172	956466	42.92	ppm	0.00
Spiked Amount 50.000	Range 43 - 107		Recovery = 85.84%			
72) 2,4,6-Tribromophenol	8.355	330	206401	92.58	ppm	0.00
Spiked Amount 100.000	Range 42 - 108		Recovery = 92.58%			
86) Terphenyl-d14	10.381	244	909507	48.45	ppm	0.01
Spiked Amount 50.000	Range 45 - 119		Recovery = 96.90%			
Target Compounds						Qvalue
2) 1,4-Dioxane	2.422	88	181176	33.95	ppm #	40
3) N-nitrosodimethylamine	2.755	42	285988	36.84	ppm	99
4) Pyridine	2.749	79	438699	30.93	ppm	99
6) Benzaldehyde	4.647	106	11976	0.91	ppm	97
7) Aniline	4.766	93	651019	36.17	ppm	77
8) bis(2-Chloroethyl)ether	4.820	93	466571	39.92	ppm	97
10) Phenol	4.783	94	686790	42.38	ppm	96
11) 2-Chlorophenol	4.863	128	539383	41.35	ppm	95
12) 1,3-Dichlorobenzene	4.977	146	514172	37.10	ppm	96
13) 1,4-Dichlorobenzene	5.022	146	530688	38.28	ppm	96
14) 1,2-Dichlorobenzene	5.181	146	490945	37.16	ppm	98
15) Benzyl alcohol	5.156	108	341133	40.76	ppm	98
16) 2-Methylphenol	5.275	108	457020	40.24	ppm	97
17) bis(2-chloroisopropyl)...	5.283	45	836523	37.66	ppm	90
18) Acetophenone	5.374	105	763388	44.45	ppm	96
19) N-Nitroso-di-n-propyla...	5.406	70	284929	42.40	ppm	98
20) 3&4-Methylphenol	5.403	108	989202	83.00	ppm	99
21) Hexachloroethane	5.443	117	214174	37.73	ppm	91
24) Nitrobenzene	5.522	77	534279	42.09	ppm	97
25) Isophorone	5.724	82	957580	41.23	ppm	97
26) 2-Nitrophenol	5.798	139	295164	44.83	ppm	98
27) 2,4-Dimethylphenol	5.846	107	559044	46.52	ppm	98
28) bis(2-Chloroethoxy)met...	5.923	93	547632	41.53	ppm	99
29) Benzoic Acid	6.008	105	853437	93.39	ppm	99
30) 2,4-Dichlorophenol	6.005	162	419015	43.20	ppm	99
31) 1,2,4-Trichlorobenzene	6.073	180	389730	39.42	ppm	99
32) Naphthalene	6.124	128	1363747	41.79	ppm	91

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\sx1827\
Data File : x039274.D
Acq On : 31 Mar 2015 2:18 pm
Operator : marthav
Sample : op55512-bs
Misc : op55512,sx1827,30.0,,,1,1,soil
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Mar 31 15:57:18 2015
Quant Method : C:\msdchem\1\METHODS\8270d_03302.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Tue Mar 31 09:29:41 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
33) 4-Chloroaniline	6.193	127	539496	35.80	ppm		95
34) 2,6-Dichlorophenol	6.005	162	419015	43.20	ppm		99
35) Hexachlorobutadiene	6.286	225	232087	42.01	ppm		97
36) Caprolactam	6.500	113	160286m	40.73	ppm		
37) 4-Chloro-3-methylphenol	6.630	107	468893	44.59	ppm		99
38) 2-Methylnaphthalene	6.724	142	948221	40.94	ppm		97
39) 1-Methylnaphthalene	6.821	142	1056184	51.35	ppm		97
40) 1,2,4,5-Tetrachloroben...	6.909	216	380309	39.36	ppm		97
42) Hexachlorocyclopentadiene	6.929	237	223834	37.99	ppm		96
43) 2,4,6-Trichlorophenol	7.002	196	295996	47.57	ppm		100
44) 2,4,5-Trichlorophenol	7.037	196	291323	43.93	ppm		93
46) 1,1'-Biphenyl	7.142	154	1060923	42.35	ppm		89
47) 2-Chloronaphthalene	7.150	162	840019	43.40	ppm		93
48) 2-Nitroaniline	7.270	65	331010	45.65	ppm		94
50) Dimethylphthalate	7.460	163	975098	44.74	ppm		96
51) m-Dinitrobenzene	7.468	168	153504	41.67	ppm		77
52) 2,6-Dinitrotoluene	7.517	165	226253	44.27	ppm		86
54) Acenaphthylene	7.517	152	1389463	45.59	ppm		90
55) 3-Nitroaniline	7.270	138	336245	45.95	ppm		98
56) Acenaphthene	7.682	153	888126	45.28	ppm		95
57) 2,4-Dinitrophenol	7.724	184	316600	94.83	ppm		97
58) 4-Nitrophenol	7.801	109	308112	87.19	ppm		91
59) Dibenzofuran	7.821	168	1180328	43.12	ppm		89
60) 2,4-Dinitrotoluene	7.858	165	305972	43.96	ppm		87
62) 2,3,4,6-Tetrachlorophenol	7.971	232	217604	42.54	ppm		96
63) Diethylphthalate	8.085	149	1010087	44.89	ppm		94
64) Fluorene	8.122	166	1032039	46.04	ppm		99
65) 4-Chlorophenyl-phenyle...	8.125	204	448135	44.22	ppm		92
66) 4-Nitroaniline	8.184	138	247893	45.47	ppm		97
68) 4,6-Dinitro-2-methylph...	8.219	198	356018	86.97	ppm	#	66
69) Diphenylamine	8.238	169	716060	38.87	ppm		97
70) n-Nitrosodiphenylamine	8.238	169	716060	46.65	ppm		97
71) 1,2-Diphenylhydrazine	8.264	77	1031689	45.91	ppm		87
73) 4-Bromophenyl-phenylether	8.551	248	205157	39.57	ppm		93
74) Hexachlorobenzene	8.679	284	185892	37.34	ppm		87
76) Atrazine	8.741	200	245105	39.78	ppm		92
77) Pentachlorophenol	8.841	266	375742	116.90	ppm		97
78) Phenanthrene	8.963	178	1353769	46.42	ppm		89
79) Anthracene	9.003	178	1340197	46.07	ppm		90
80) Carbazole	9.151	167	1241550	45.14	ppm		92
81) Di-n-butylphthalate	9.514	149	1552145	45.35	ppm		93
82) Fluoranthene	10.017	202	1364812	45.27	ppm		93
84) Benzidine	10.137	184	146596	12.16	ppm		98
85) Pyrene	10.216	202	1395118	45.94	ppm		93
87) Butylbenzylphthalate	10.941	149	679838	46.86	ppm		99
88) 3,3'-Dichlorobenzidine	11.552	252	251093	38.29	ppm		94
89) Benzo[a]anthracene	11.552	228	1108000	46.75	ppm		96
90) Chrysene	11.611	228	1042595	46.35	ppm		95
91) bis(2-Ethylhexyl)phtha...	11.733	149	918237	47.80	ppm		97
93) Di-n-octylphthalate	12.722	149	1356824	48.45	ppm		98

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\sx1827\
Data File : x039274.D
Acq On : 31 Mar 2015 2:18 pm
Operator : marthav
Sample : op55512-bs
Misc : op55512,sx1827,30.0,,,1,1,soil
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Mar 31 15:57:18 2015
Quant Method : C:\msdchem\1\METHODS\8270d_03302.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Tue Mar 31 09:29:41 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
94) Benzo[b]fluoranthene	13.225	252	830640	47.40 ppm	96
95) Benzo[k]fluoranthene	13.268	252	837440	46.59 ppm	98
96) Benzo[a]pyrene	13.785	252	727611	46.27 ppm	99
97) Indeno[1,2,3-cd]pyrene	15.944	276	479314	44.89 ppm	100
98) Dibenz[a,h]anthracene	16.015	278	483976	48.30 ppm	99
99) Benzo[g,h,i]perylene	16.410	276	583895	49.98 ppm	97

(#) = qualifier out of range (m) = manual integration (+) = signals summed

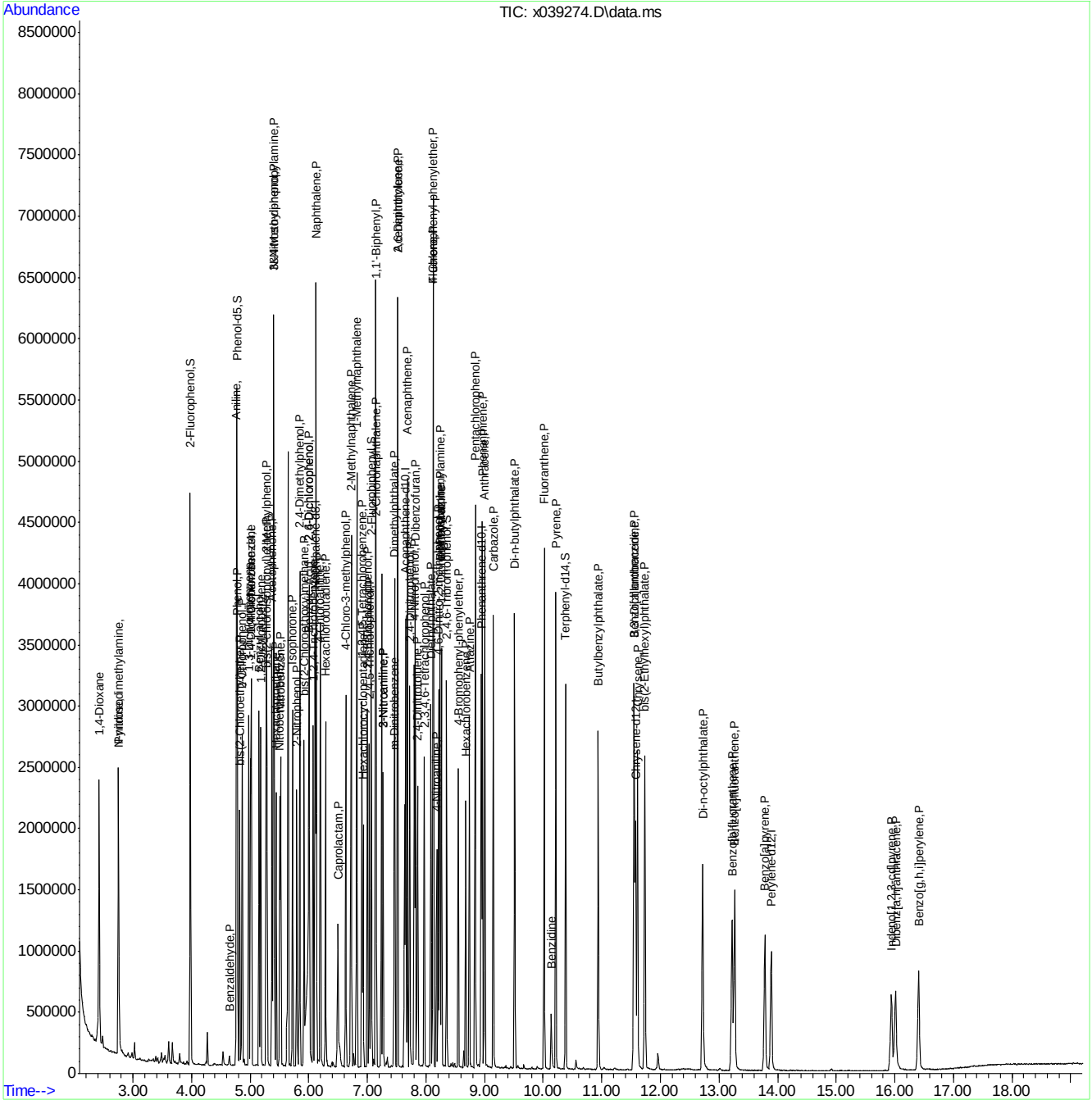
7.3.1

7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\sx1827\
Data File : x039274.D
Acq On : 31 Mar 2015 2:18 pm
Operator : marthav
Sample : op55512-bs
Misc : op55512,sx1827,30.0,,,1,1,soil
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Mar 31 15:57:18 2015
Quant Method : C:\msdchem\1\METHODS\8270d_03302.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Tue Mar 31 09:29:41 2015
Response via : Initial Calibration



ACCUTEST LABORATORIES FA23189

Manual Integration Approval Summary

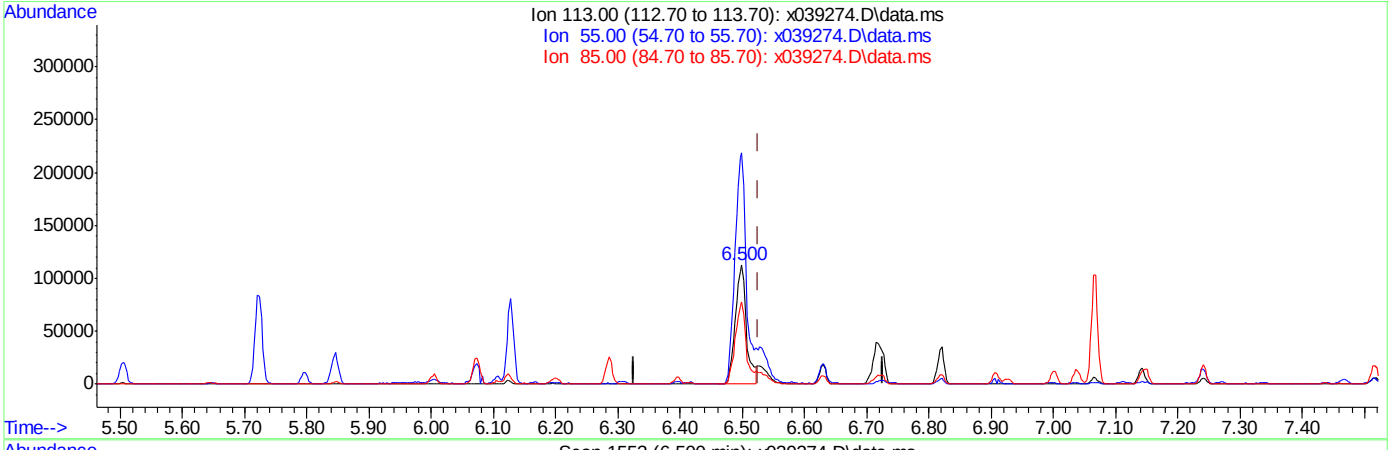
Sample Number:	OP55512-BS	**Method:**	SW846 8270D
Lab FileID:	X039274.D	**Analyst approved:**	03/31/15 16:00 Martha Valls
Injection Time:	03/31/15 14:18	**Supervisor approved:**	04/02/15 13:25 Mike Eger

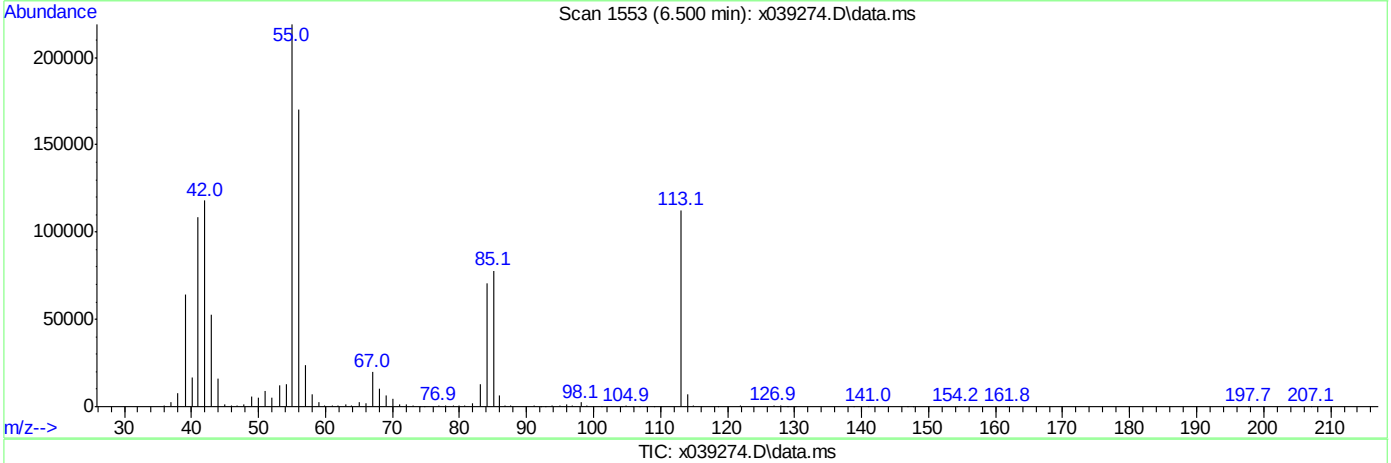
Parameter	CAS	Sig#	R.T. (min.)	Reason
Caprolactam	105-60-2		6.50	Split peak

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\sx1827\
Data File : x039274.D
Acq On : 31 Mar 2015 2:18 pm
Operator : marthav
Sample : op55512-bs
Misc : op55512,sx1827,30.0,,,1,1,soil
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Mar 31 15:56:58 2015
Quant Method : C:\msdchem\1\METHODS\8270d_03302.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Tue Mar 31 09:29:41 2015
Response via : Initial Calibration





TIC: x039274.D\data.ms

(36) Caprolactam (P)

6.500min (-0.026) 35.31ppm

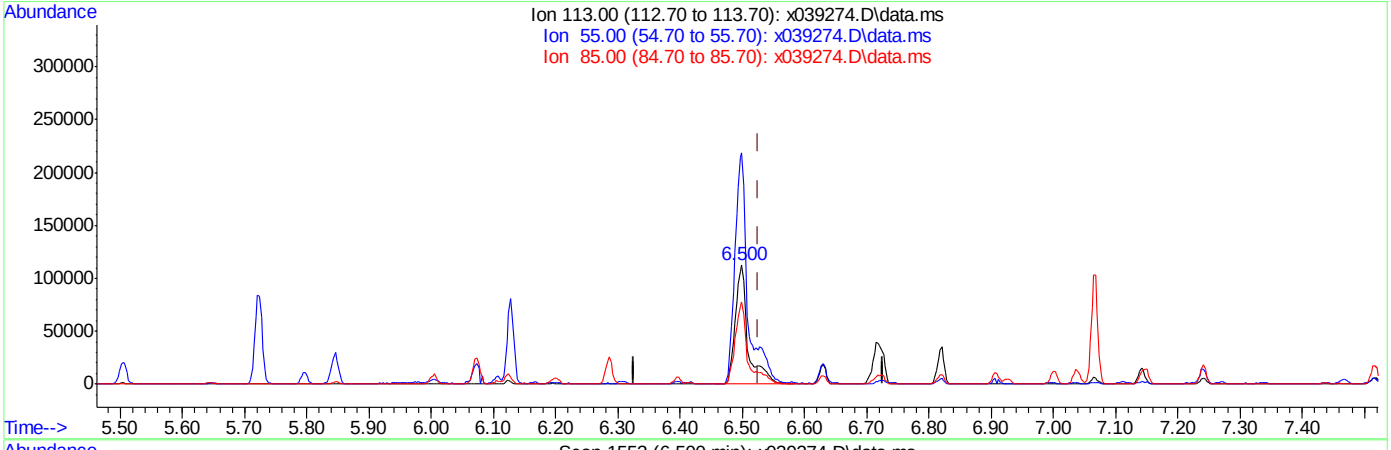
response 138963

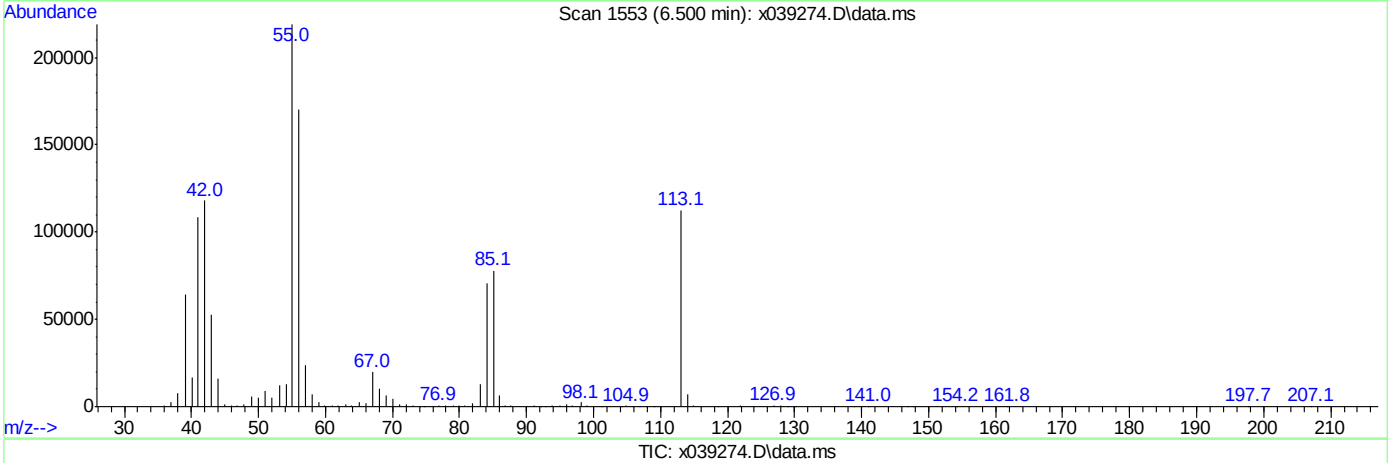
Ion	Exp%	Act%
113.00	100	100
55.00	179.50	193.05
85.00	64.50	68.66
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\sx1827\
Data File : x039274.D
Acq On : 31 Mar 2015 2:18 pm
Operator : marthav
Sample : op55512-bs
Misc : op55512,sx1827,30.0,,,1,1,soil
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Mar 31 15:56:58 2015
Quant Method : C:\msdchem\1\METHODS\8270d_03302.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Tue Mar 31 09:29:41 2015
Response via : Initial Calibration





TIC: x039274.D\data.ms

(36) Caprolactam (P)

6.500min (-0.026) 40.73ppm m

response 160286

Ion	Exp%	Act%
113.00	100	100
55.00	179.50	194.83
85.00	64.50	69.34
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\SU2287\
Data File : U049968.D
Acq On : 1 Apr 2015 4:46 pm
Operator : nareshj
Sample : op55512-bs
Misc : op55512,su2287,30.0,,,1,1,soil
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Apr 02 08:35:08 2015
Quant Method : C:\msdchem\2\METHODS\8270da2.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Tue Mar 31 14:48:34 2015
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.712	152	55286	40.00	ppm	0.00
22) Naphthalene-d8	5.811	136	215711	40.00	ppm	0.00
42) Acenaphthene-d10	8.028	164	105945	40.00	ppm	-0.01
68) Phenanthrene-d10	10.449	188	169434	40.00	ppm	-0.01
84) Chrysene-d12	15.356	240	157772	40.00	ppm	-0.02
93) Perylene-d12	17.859	264	133519	40.00	ppm	-0.02

System Monitoring Compounds

7) 2-Fluorophenol	3.814	112	151279	81.09	ppm	0.00
Spiked Amount 100.000	Range 40 - 102		Recovery = 81.09%			
9) Phenol-d5	4.516	99	199264	98.23	ppm	0.00
Spiked Amount 100.000	Range 41 - 100		Recovery = 98.23%			
23) Nitrobenzene-d5	5.175	82	83124	39.50	ppm	0.00
Spiked Amount 50.000	Range 40 - 105		Recovery = 79.00%			
46) 2-Fluorobiphenyl	7.082	172	164716	44.40	ppm	-0.01
Spiked Amount 50.000	Range 43 - 107		Recovery = 88.80%			
73) 2,4,6-Tribromophenol	9.309	330	45452	91.01	ppm	-0.02
Spiked Amount 100.000	Range 42 - 108		Recovery = 91.01%			
87) Terphenyl-d14	13.478	244	161691	47.21	ppm	-0.02
Spiked Amount 50.000	Range 45 - 119		Recovery = 94.42%			

Target Compounds

						Qvalue
2) 1,4-Dioxane	2.311	88	26616	33.98	ppm #	57
3) N-nitrosodimethylamine	2.643	42	32105	40.42	ppm	94
4) Pyridine	2.643	79	66596	32.16	ppm	99
5) Benzaldehyde	4.394	106	1784	0.87	ppm	82
6) Aniline	4.501	93	114193	37.04	ppm	83
8) bis(2-Chloroethyl)ether	4.541	93	77055	40.54	ppm	96
10) Phenol	4.524	94	106586	43.44	ppm	95
11) 2-Chlorophenol	4.592	128	89151	42.80	ppm	98
12) 1,3-Dichlorobenzene	4.683	146	84004	37.71	ppm	99
13) 1,4-Dichlorobenzene	4.723	146	87547	38.90	ppm	98
14) 1,2-Dichlorobenzene	4.868	146	81163	37.80	ppm	99
15) Benzyl alcohol	4.845	108	56818	41.19	ppm	97
16) bis(2-chloroisopropyl)...	4.956	45	95583	40.28	ppm	90
17) 2-Methylphenol	4.962	108	74495	40.35	ppm	95
18) Acetophenone	5.047	105	121790	44.71	ppm	99
19) Hexachloroethane	5.115	117	32440	38.80	ppm	91
20) N-Nitroso-di-n-propyla...	5.073	70	55231	42.64	ppm	98
21) 3&4-Methylphenol	5.081	108	166189	84.99	ppm	95
24) Nitrobenzene	5.192	77	81357	39.07	ppm	99
25) Isophorone	5.391	82	146726	37.95	ppm	100
26) 2-Nitrophenol	5.470	139	48062	41.09	ppm	97
27) 2,4-Dimethylphenol	5.522	107	87848	44.29	ppm	95
28) bis(2-Chloroethoxy)met...	5.593	93	88565	38.71	ppm	100
29) Benzoic Acid	5.669	105	133159	82.62	ppm	98
30) 2,4-Dichlorophenol	5.701	162	71273	41.90	ppm	98
31) 1,2,4-Trichlorobenzene	5.772	180	66440	36.29	ppm	97
33) Naphthalene	5.831	128	236899	39.65	ppm	99
34) 4-Chloroaniline	5.911	127	84293	31.76	ppm	99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\SU2287\
Data File : U049968.D
Acq On : 1 Apr 2015 4:46 pm
Operator : nareshj
Sample : op55512-bs
Misc : op55512,su2287,30.0,,,1,1,soil
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Apr 02 08:35:08 2015
Quant Method : C:\msdchem\2\METHODS\8270da2.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Tue Mar 31 14:48:34 2015
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
35) 2,6-Dichlorophenol	5.922	162	65024	38.02 ppm	98
36) Hexachlorobutadiene	6.019	225	39292	39.86 ppm	98
37) Caprolactam	6.263	113	26998	38.96 ppm	97
38) 4-Chloro-3-methylphenol	6.468	107	71713	41.77 ppm	97
39) 2-Methylnaphthalene	6.587	142	157835	38.90 ppm	99
40) 1-Methylnaphthalene	6.718	142	175272	49.03 ppm	99
41) 1,2,4,5-Tetrachloroben...	6.846	216	68145	37.14 ppm	98
43) Hexachlorocyclopentadiene	6.874	237	36472	36.06 ppm	95
44) 2,4,6-Trichlorophenol	6.991	196	50997	48.68 ppm	96
45) 2,4,5-Trichlorophenol	7.047	196	51974	46.89 ppm	98
47) 1,1'-Biphenyl	7.198	154	182522	43.91 ppm	97
48) 2-Chloronaphthalene	7.204	162	139344	44.75 ppm	97
49) 2-Nitroaniline	7.405	65	45176	48.31 ppm	95
51) Acenaphthylene	7.795	152	244279	47.16 ppm	99
52) Dimethylphthalate	7.727	163	162486	45.76 ppm	99
53) m-Dinitrobenzene	7.732	168	26495	41.52 ppm	96
54) 2,6-Dinitrotoluene	7.812	165	38947	44.83 ppm	96
56) Acenaphthene	8.073	153	152448	48.04 ppm	97
57) 3-Nitroaniline	8.019	138	40391	41.89 ppm	95
58) 2,4-Dinitrophenol	8.170	184	52990	85.03 ppm	96
59) Dibenzofuran	8.320	168	204583	45.36 ppm	81
60) 2,4-Dinitrotoluene	8.414	165	51236	44.22 ppm	100
61) 4-Nitrophenol	8.372	109	40614	97.78 ppm	94
63) 2,3,4,6-Tetrachlorophenol	8.610	232	38611	43.31 ppm	98
64) Fluorene	8.869	166	171150	47.59 ppm	98
65) 4-Chlorophenyl-phenyle...	8.906	204	76481	44.30 ppm	98
66) Diethylphthalate	8.857	149	154137	45.57 ppm	99
67) 4-Nitroaniline	9.005	138	43455	44.59 ppm	95
69) 4,6-Dinitro-2-methylph...	9.073	198	62634	93.19 ppm	94
70) n-Nitrosodiphenylamine	9.124	169	119019	47.40 ppm	98
71) Diphenylamine	9.124	169	119019	39.50 ppm	98
72) 1,2-Diphenylhydrazine	9.161	77	155966	45.30 ppm	98
74) 4-Bromophenyl-phenylether	9.718	248	37396	39.94 ppm	98
75) Hexachlorobenzene	9.934	284	40814	38.97 ppm	97
77) Atrazine	10.159	200	38863	40.56 ppm	98
78) Pentachlorophenol	10.281	266	66076	98.09 ppm	96
79) Phenanthrene	10.488	178	233623	48.00 ppm	100
80) Anthracene	10.568	178	234689	48.08 ppm	98
81) Carbazole	10.912	167	217531	47.33 ppm	99
82) Di-n-butylphthalate	11.778	149	246316	45.94 ppm	100
83) Fluoranthene	12.654	202	235003	47.74 ppm	98
85) Benzidine	12.997	184	38960	13.93 ppm	97
86) Pyrene	13.049	202	241596	48.10 ppm	99
88) Butylbenzylphthalate	14.560	149	102642	46.07 ppm	97
89) 3,3'-Dichlorobenzidine	15.401	252	65965	39.89 ppm	95
90) Benzo[a]anthracene	15.327	228	209089	47.12 ppm	97
91) Chrysene	15.401	228	197721	47.63 ppm	99
92) bis(2-Ethylhexyl)phtha...	15.776	149	141418	46.60 ppm	99
94) Di-n-octylphthalate	16.890	149	221396	46.74 ppm	98
95) Benzo[b]fluoranthene	17.251	252	190783	47.72 ppm	98

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\SU2287\
Data File : U049968.D
Acq On : 1 Apr 2015 4:46 pm
Operator : nareshj
Sample : op55512-bs
Misc : op55512,su2287,30.0,,,1,1,soil
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Apr 02 08:35:08 2015
Quant Method : C:\msdchem\2\METHODS\8270da2.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Tue Mar 31 14:48:34 2015
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
96) Benzo[k]fluoranthene	17.294	252	184884	48.71 ppm	96
97) Benzo[a]pyrene	17.762	252	178674	46.36 ppm	98
98) Indeno[1,2,3-cd]pyrene	19.445	276	149290	41.66 ppm	99
99) Dibenz[a,h]anthracene	19.490	278	157804	44.59 ppm	99
100) Benzo[g,h,i]perylene	19.786	276	171989	46.04 ppm	97

(#) = qualifier out of range (m) = manual integration (+) = signals summed

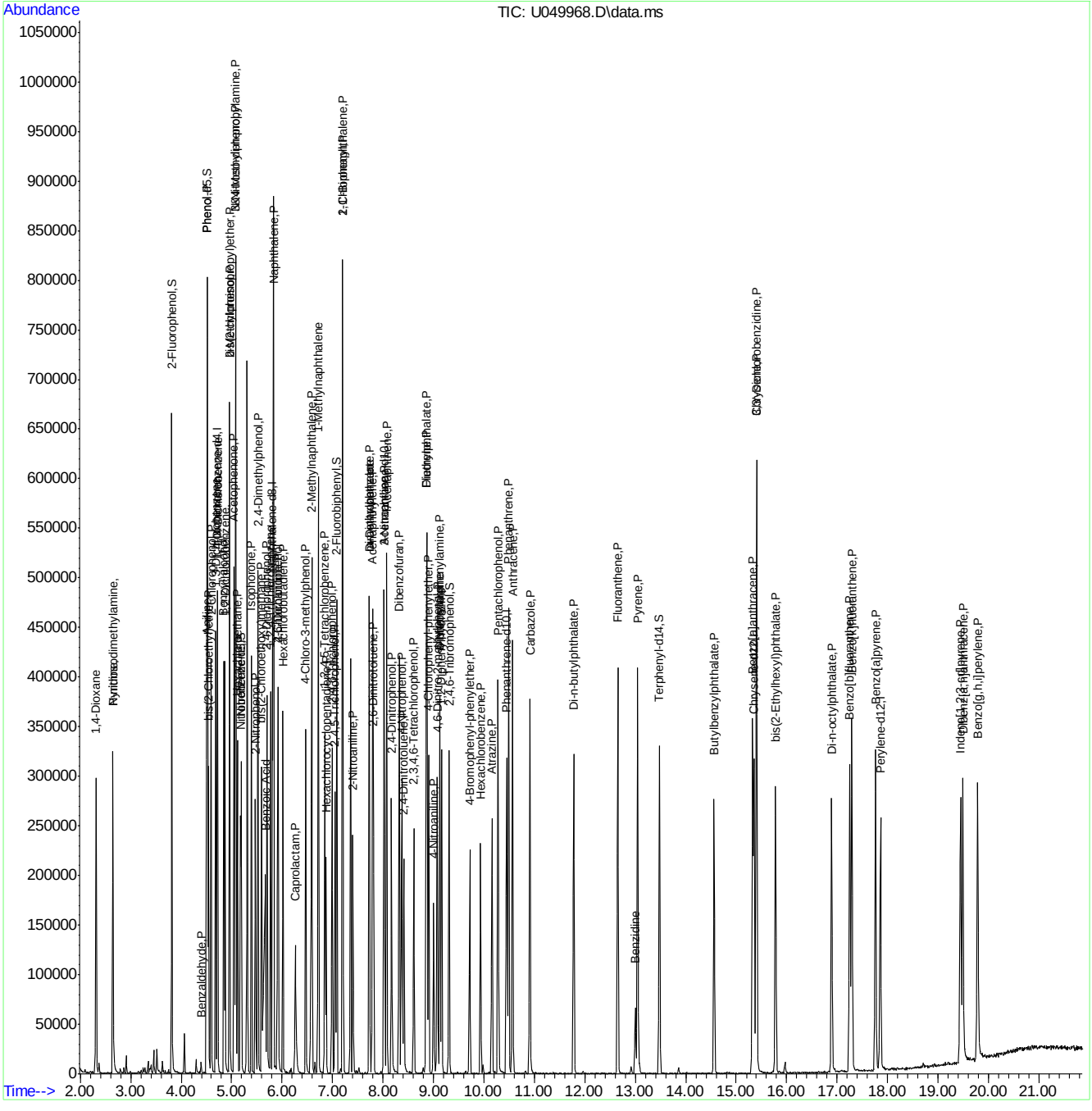
7.3.2

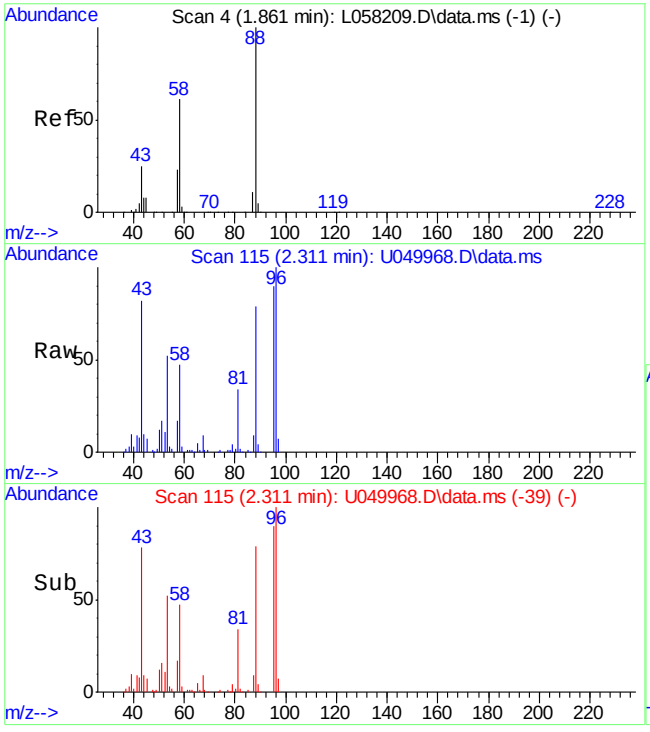
7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\SU2287\
Data File : U049968.D
Acq On : 1 Apr 2015 4:46 pm
Operator : nareshj
Sample : op55512-bs
Misc : op55512,su2287,30.0,,,1,1,soil
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Apr 02 08:35:08 2015
Quant Method : C:\msdchem\2\METHODS\8270da2.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Tue Mar 31 14:48:34 2015
Response via : Initial Calibration

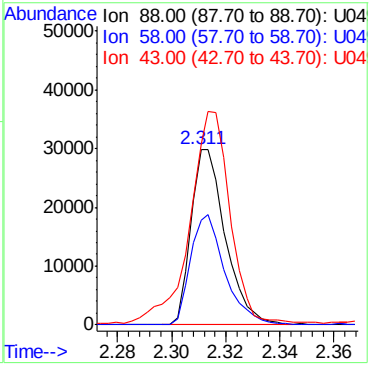


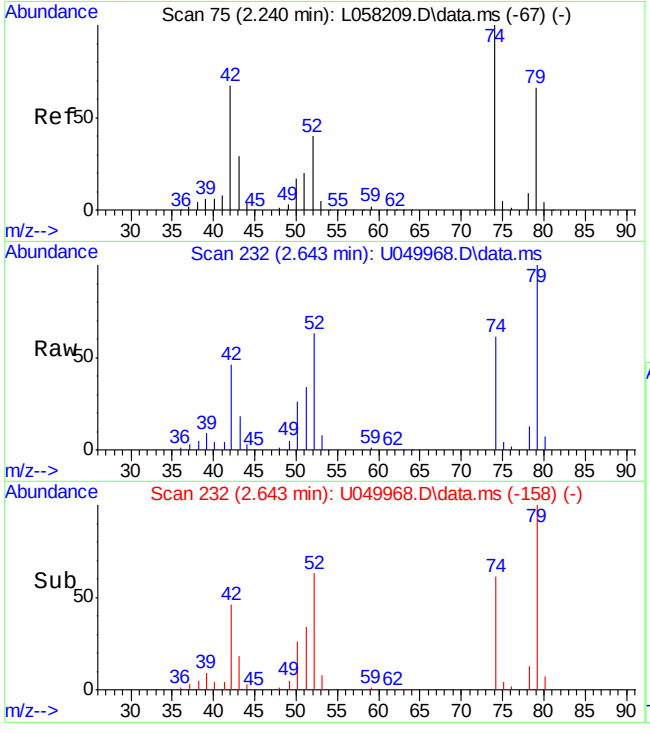


#2
1,4-Dioxane
Concen: 33.98 ppm
RT: 2.311 min Scan# 115
Delta R.T. 0.017 min
Lab File: U049968.D
Acq: 1 Apr 2015 4:46 pm

Tgt Ion: 88 Resp: 26616

Ion	Ratio	Lower	Upper
88	100		
58	59.5	32.0	92.0
43	96.6	0.0	55.1#

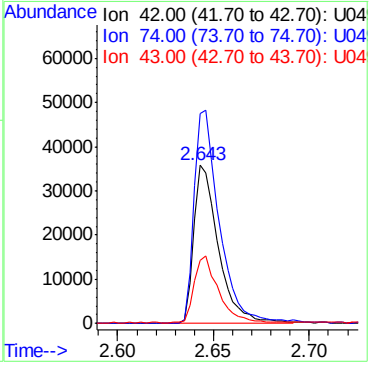




#3
N-nitrosodimethylamine
Concen: 40.42 ppm
RT: 2.643 min Scan# 232
Delta R.T. 0.009 min
Lab File: U049968.D
Acq: 1 Apr 2015 4:46 pm

Tgt Ion: 42 Resp: 32105

Ion	Ratio	Lower	Upper
42	100		
74	131.8	109.8	169.8
43	39.2	13.1	73.1



7.3.2

7

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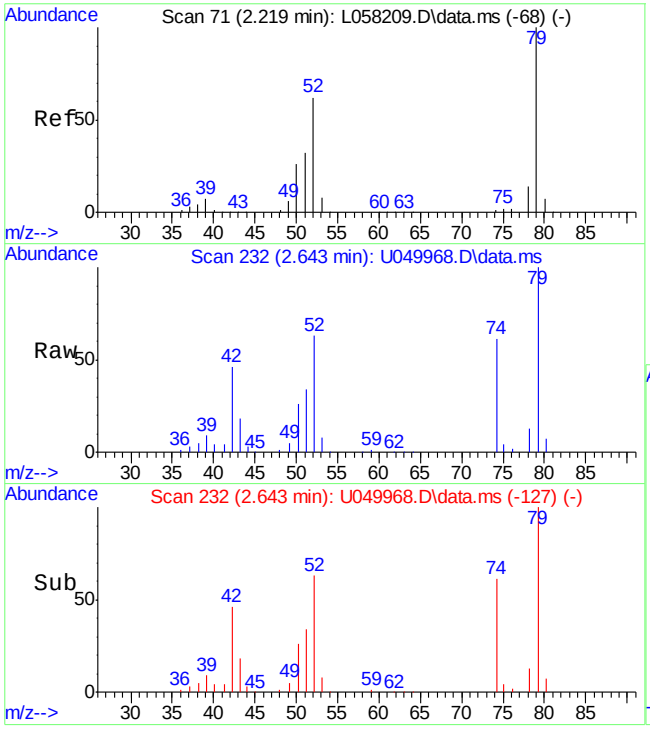
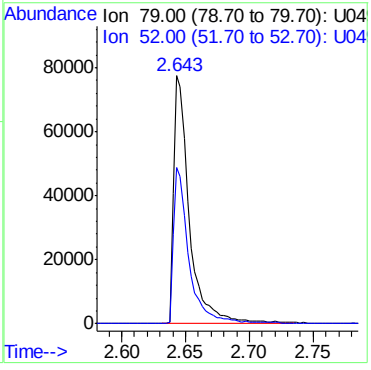
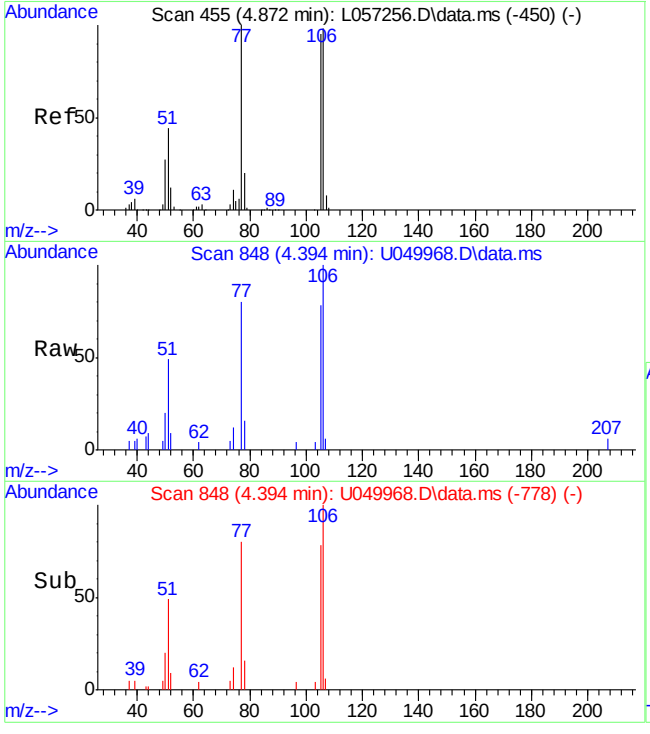


#4
Pyridine
Concen: 32.16 ppm
RT: 2.643 min Scan# 232
Delta R.T. 0.016 min
Lab File: U049968.D
Acq: 1 Apr 2015 4:46 pm

Tgt Ion: 79 Resp: 66596

Ion	Ratio	Lower	Upper
79	100		
52	63.1	33.6	93.6

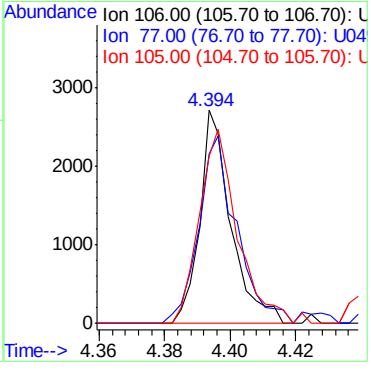




#5
Benzaldehyde
Concen: 0.87 ppm
RT: 4.394 min Scan# 848
Delta R.T. -0.000 min
Lab File: U049968.D
Acq: 1 Apr 2015 4:46 pm

Tgt Ion:106 Resp: 1784

Ion	Ratio	Lower	Upper
106	100		
77	79.7	68.1	128.1
105	78.3	65.4	125.4



7.3.2

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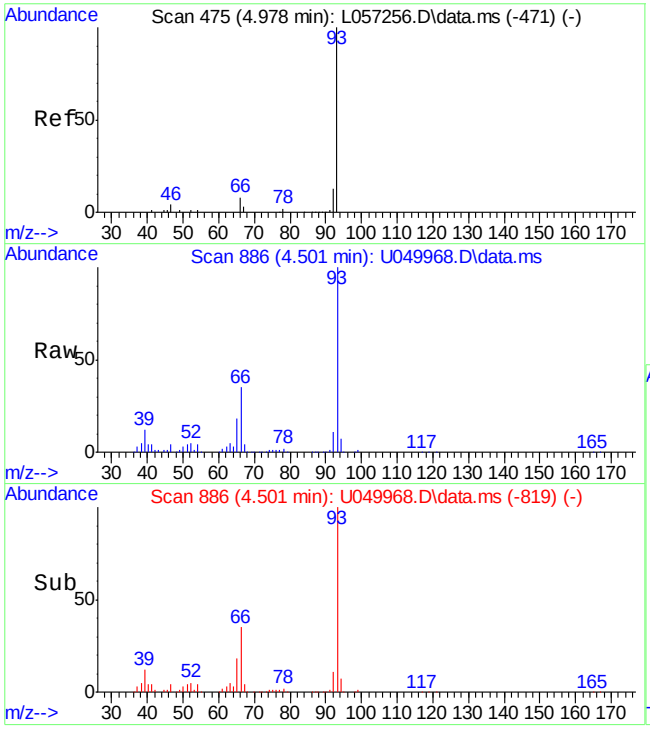
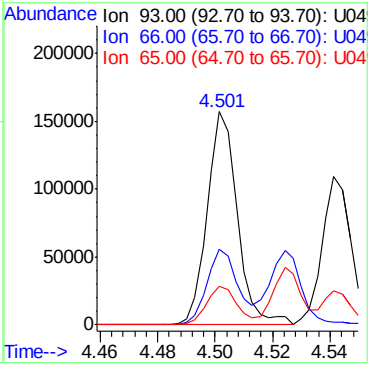
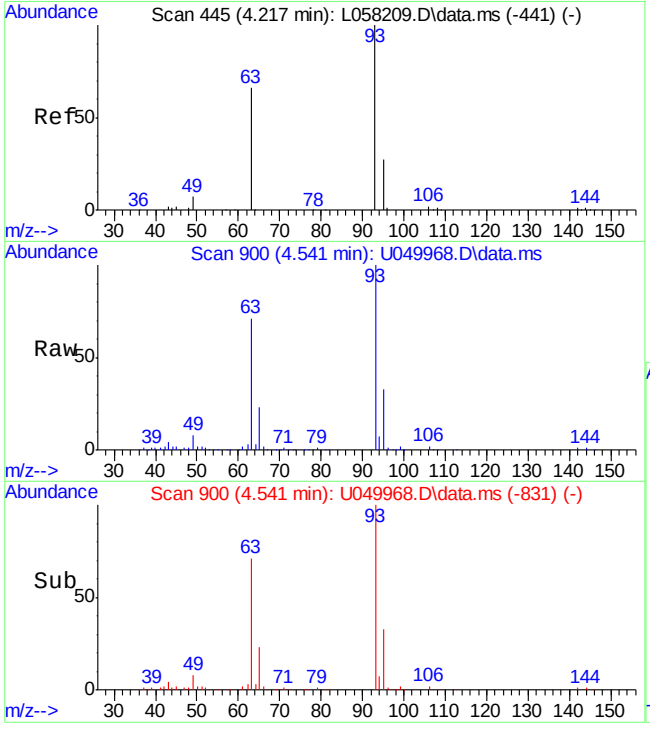


#6
Aniline
Concen: 37.04 ppm
RT: 4.501 min Scan# 886
Delta R.T. -0.009 min
Lab File: U049968.D
Acq: 1 Apr 2015 4:46 pm

Tgt Ion: 93 Resp: 114193

Ion	Ratio	Lower	Upper
93	100		
66	19.6	0.0	59.1
65	6.3	0.0	42.6

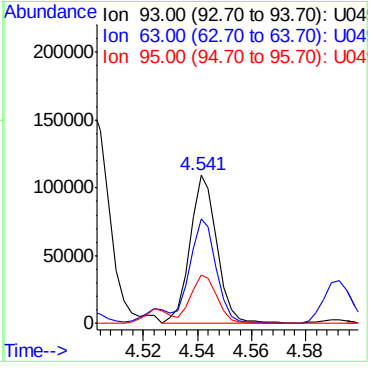




#8
bis(2-Chloroethyl)ether
Concen: 40.54 ppm
RT: 4.541 min Scan# 900
Delta R.T. -0.004 min
Lab File: U049968.D
Acq: 1 Apr 2015 4:46 pm

Tgt Ion: 93 Resp: 77055

Ion	Ratio	Lower	Upper
93	100		
63	65.8	37.8	97.8
95	28.9	3.2	63.2



7.3.2

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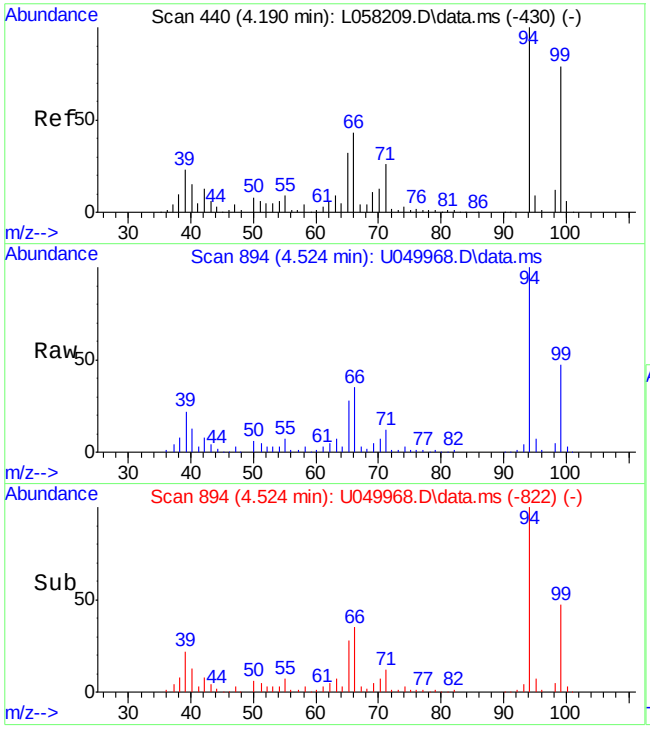
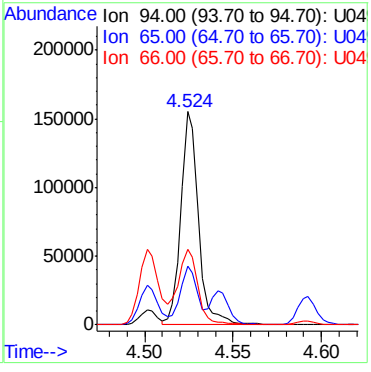
ACCUTEST LABORATORIES FA23189

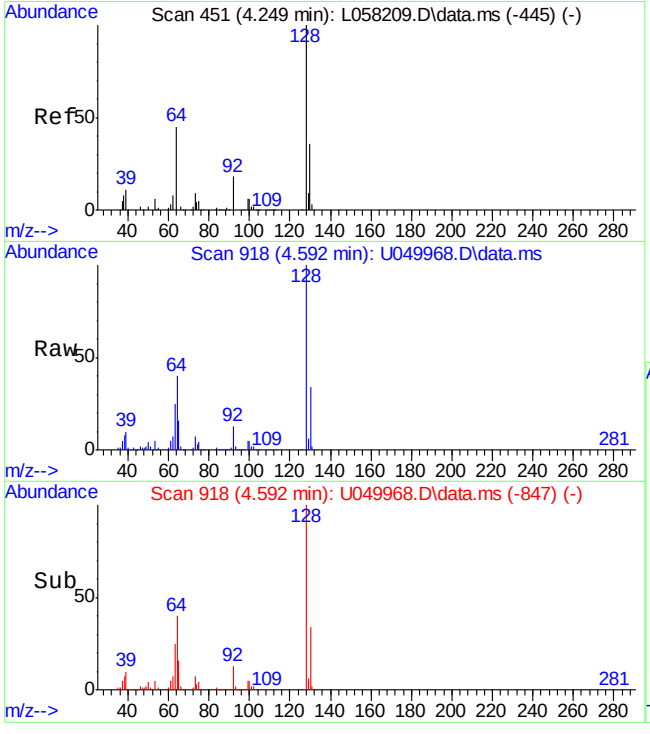


#10
Phenol
Concen: 43.44 ppm
RT: 4.524 min Scan# 894
Delta R.T. 0.004 min
Lab File: U049968.D
Acq: 1 Apr 2015 4:46 pm

Tgt Ion: 94 Resp: 106586

Ion	Ratio	Lower	Upper
94	100		
65	23.3	0.0	55.7
66	29.2	2.5	62.5

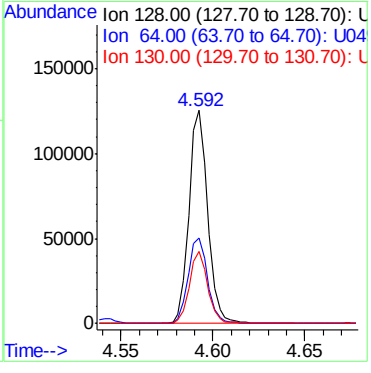




#11
2-Chlorophenol
Concen: 42.80 ppm
RT: 4.592 min Scan# 918
Delta R.T. 0.002 min
Lab File: U049968.D
Acq: 1 Apr 2015 4:46 pm

Tgt Ion:128 Resp: 89151

Ion	Ratio	Lower	Upper
128	100		
64	40.1	12.0	72.0
130	34.1	3.6	63.6



7.3.2

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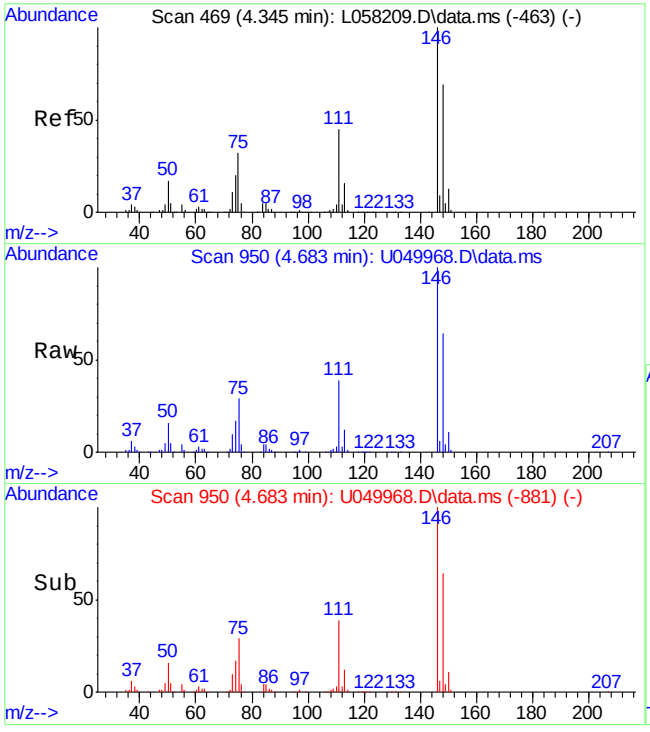
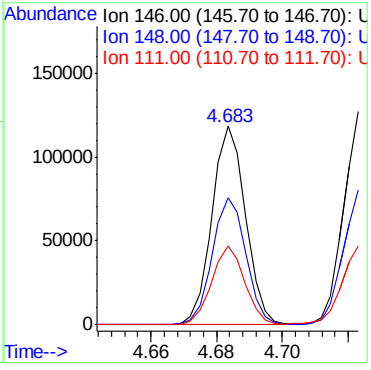
ACCUTEST LABORATORIES FA23189

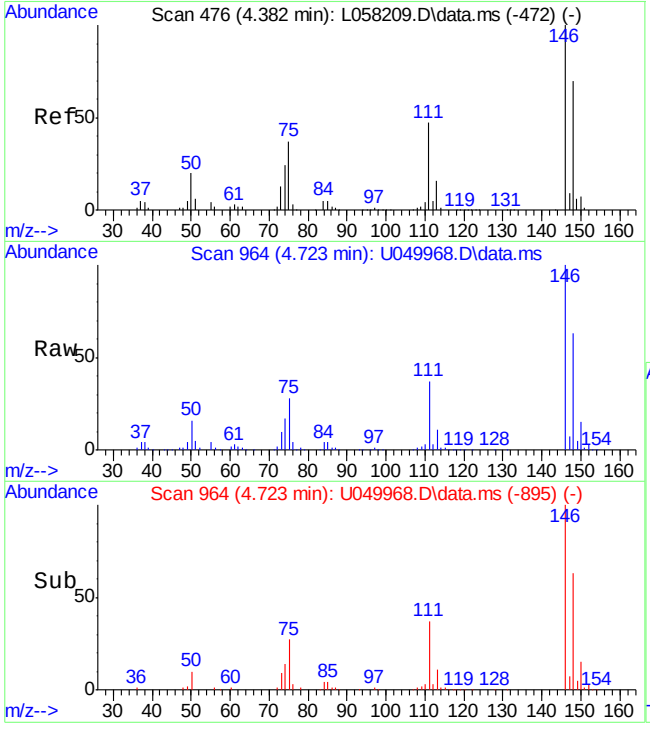


#12
1,3-Dichlorobenzene
Concen: 37.71 ppm
RT: 4.683 min Scan# 950
Delta R.T. -0.004 min
Lab File: U049968.D
Acq: 1 Apr 2015 4:46 pm

Tgt Ion:146 Resp: 84004

Ion	Ratio	Lower	Upper
146	100		
148	64.1	34.7	94.7
111	39.3	9.4	69.4

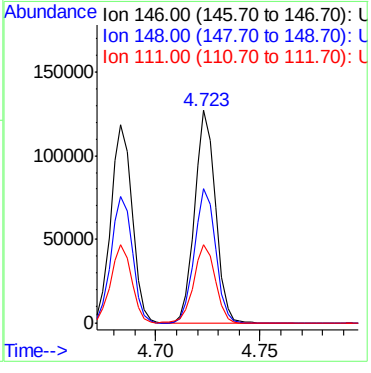




#13
1,4-Dichlorobenzene
Concen: 38.90 ppm
RT: 4.723 min Scan# 964
Delta R.T. -0.004 min
Lab File: U049968.D
Acq: 1 Apr 2015 4:46 pm

Tgt Ion:146 Resp: 87547

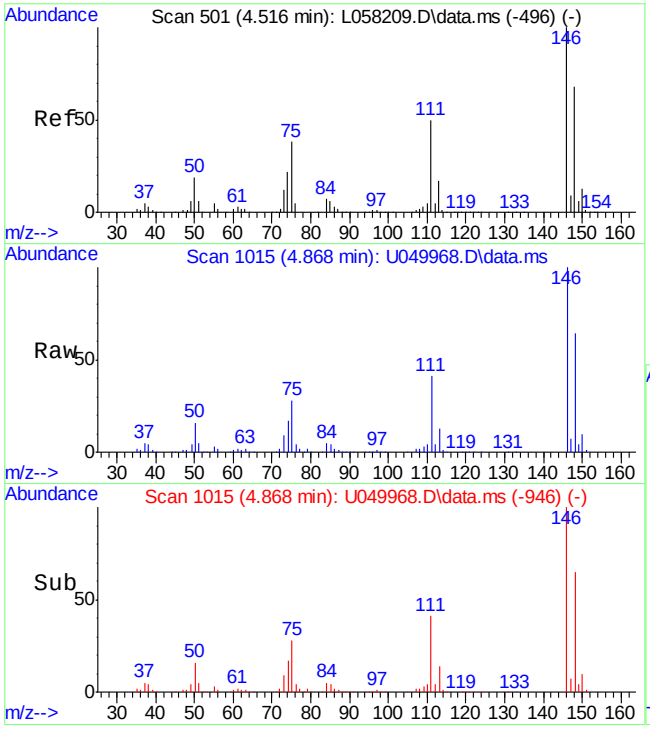
Ion	Ratio	Lower	Upper
146	100		
148	63.2	35.1	95.1
111	37.0	7.7	67.7



7.3.2

7

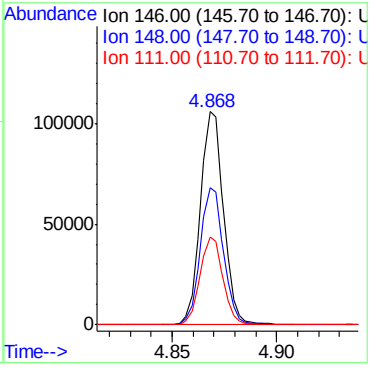
ACCUTEST LABORATORIES FA23189

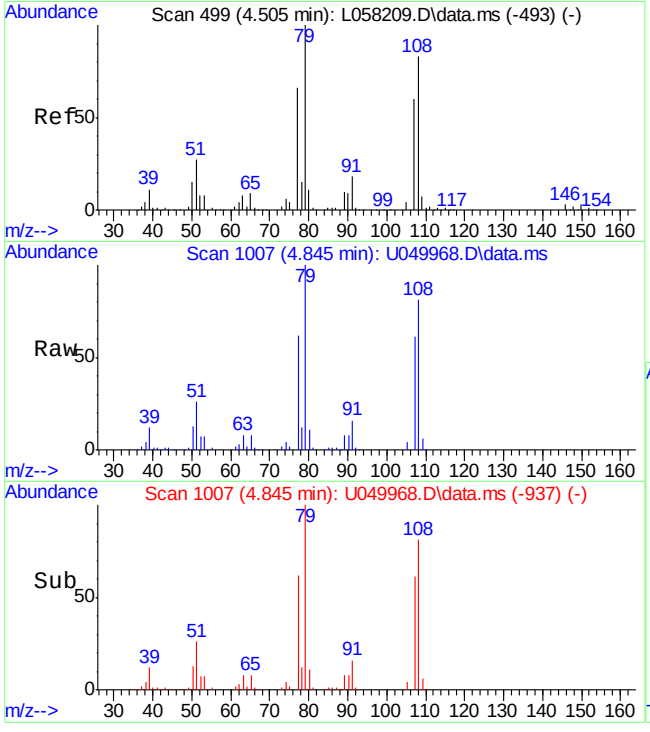


#14
1,2-Dichlorobenzene
Concen: 37.80 ppm
RT: 4.868 min Scan# 1015
Delta R.T. -0.004 min
Lab File: U049968.D
Acq: 1 Apr 2015 4:46 pm

Tgt Ion:146 Resp: 81163

Ion	Ratio	Lower	Upper
146	100		
148	64.3	34.6	94.6
111	41.1	10.5	70.5

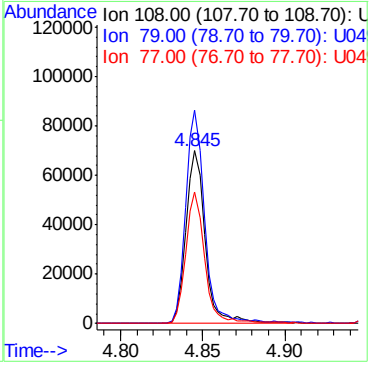




#15
Benzyl alcohol
Concen: 41.19 ppm
RT: 4.845 min Scan# 1007
Delta R.T. -0.000 min
Lab File: U049968.D
Acq: 1 Apr 2015 4:46 pm

Tgt Ion:108 Resp: 56818

Ion	Ratio	Lower	Upper
108	100		
79	123.4	90.7	150.7
77	76.2	43.0	103.0



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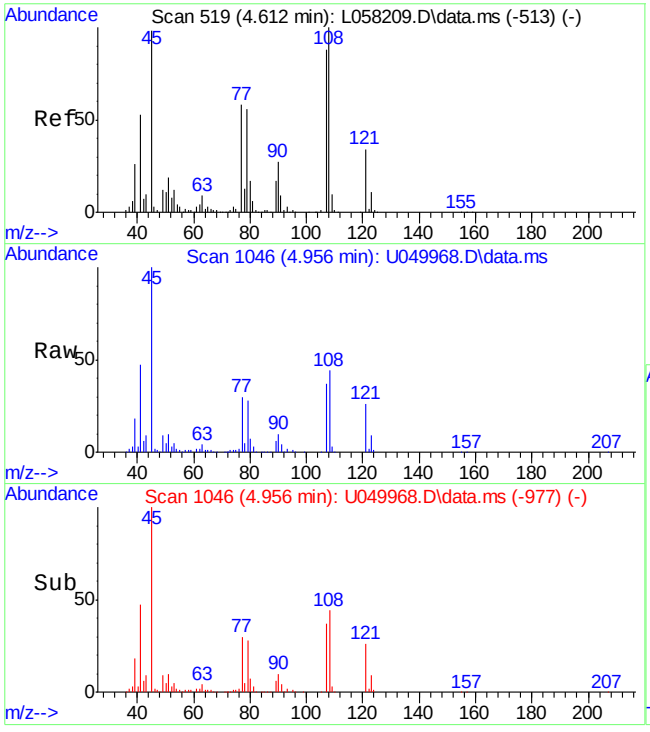
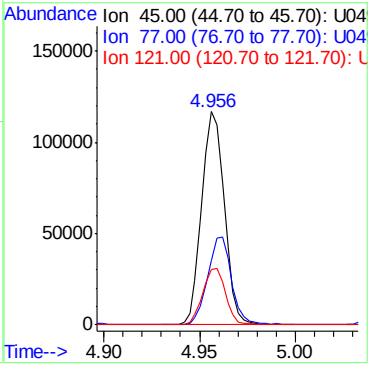
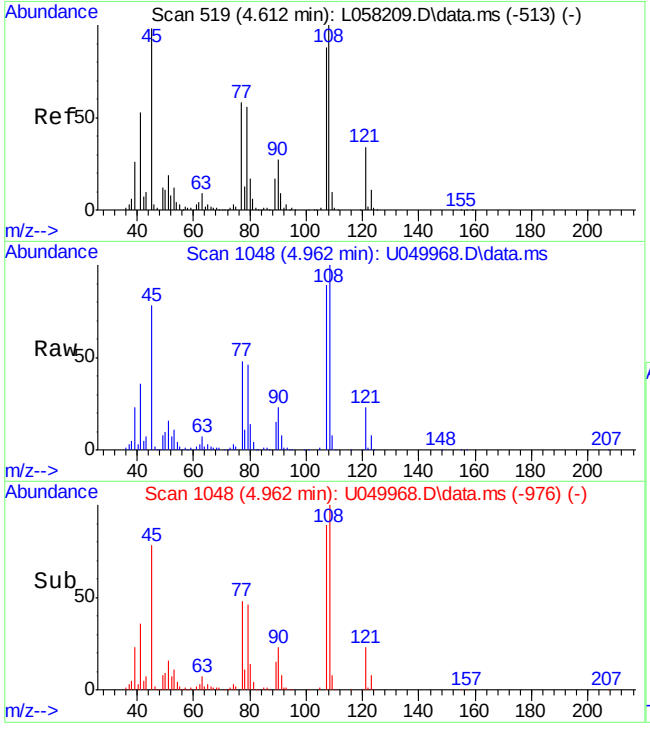


#16
bis(2-chloroisopropyl)ether
Concen: 40.28 ppm
RT: 4.956 min Scan# 1046
Delta R.T. -0.004 min
Lab File: U049968.D
Acq: 1 Apr 2015 4:46 pm

Tgt Ion: 45 Resp: 95583

Ion	Ratio	Lower	Upper
45	100		
77	30.0	0.0	50.7
121	26.0	0.0	57.6

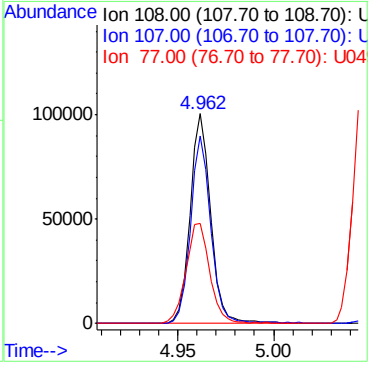


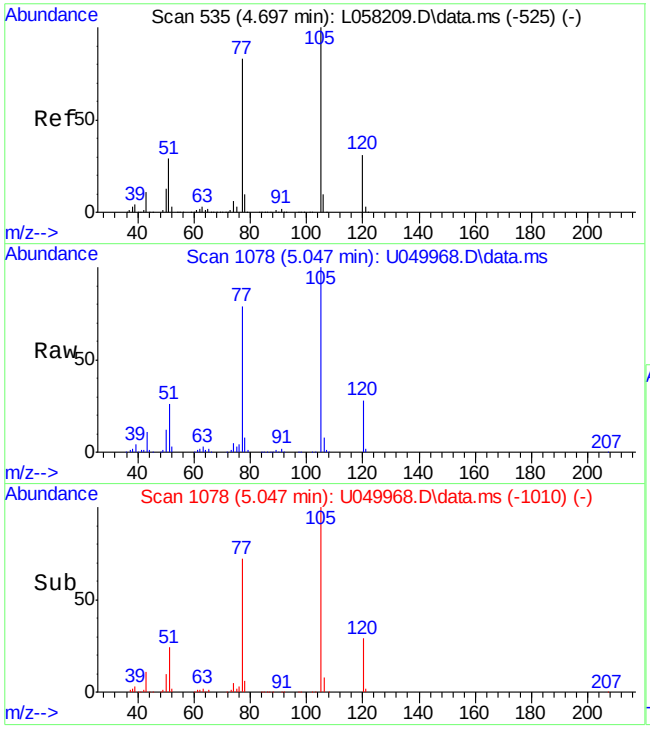


#17
2-Methylphenol
Concen: 40.35 ppm
RT: 4.962 min Scan# 1048
Delta R.T. 0.005 min
Lab File: U049968.D
Acq: 1 Apr 2015 4:46 pm

Tgt Ion:108 Resp: 74495

Ion	Ratio	Lower	Upper
108	100		
107	89.4	58.1	118.1
77	47.4	10.1	70.1

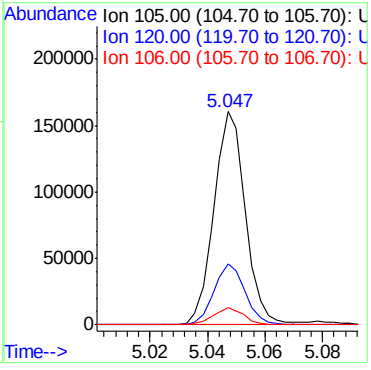


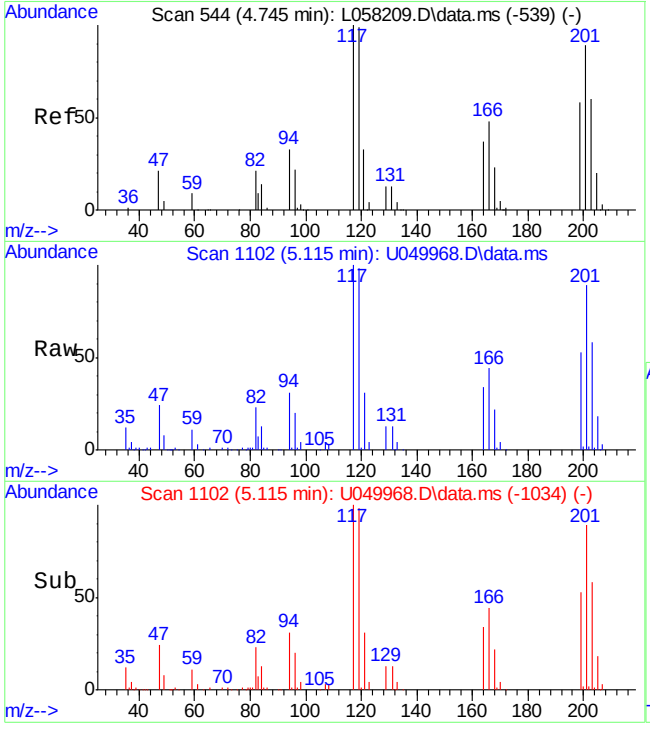


#18
Acetophenone
Concen: 44.71 ppm
RT: 5.047 min Scan# 1078
Delta R.T. -0.006 min
Lab File: U049968.D
Acq: 1 Apr 2015 4:46 pm

Tgt Ion:105 Resp: 121790

Ion	Ratio	Lower	Upper
105	100		
120	28.5	0.0	59.2
106	8.1	0.0	38.0

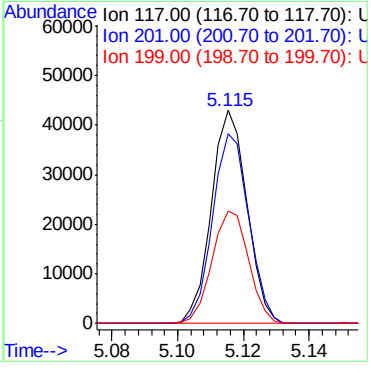


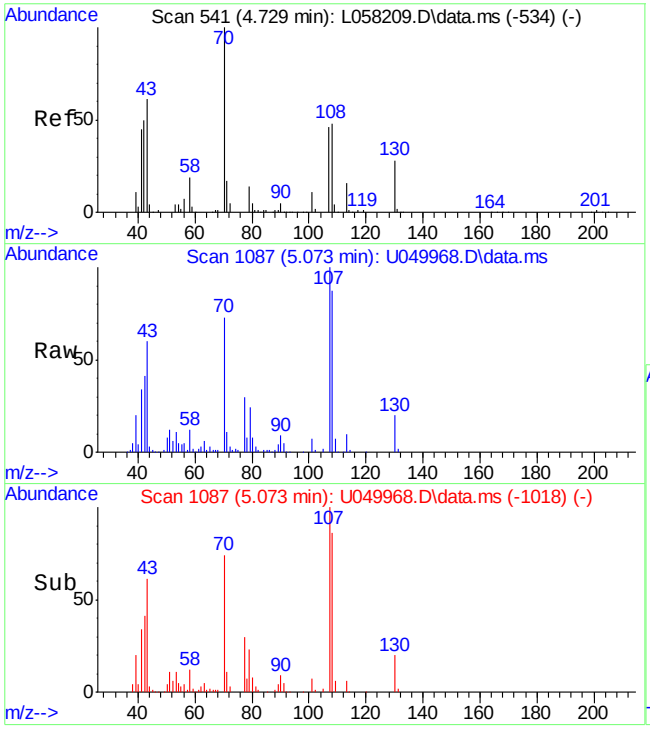


#19
Hexachloroethane
Concen: 38.80 ppm
RT: 5.115 min Scan# 1102
Delta R.T. -0.006 min
Lab File: U049968.D
Acq: 1 Apr 2015 4:46 pm

Tgt Ion:117 Resp: 32440

Ion	Ratio	Lower	Upper
117	100		
201	89.3	68.3	128.3
199	52.7	28.3	88.3

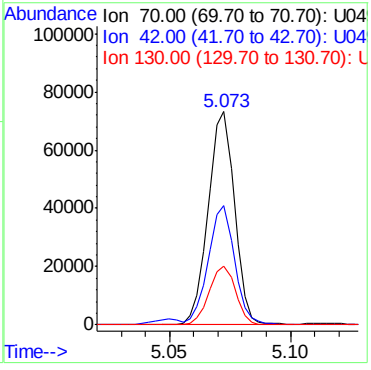


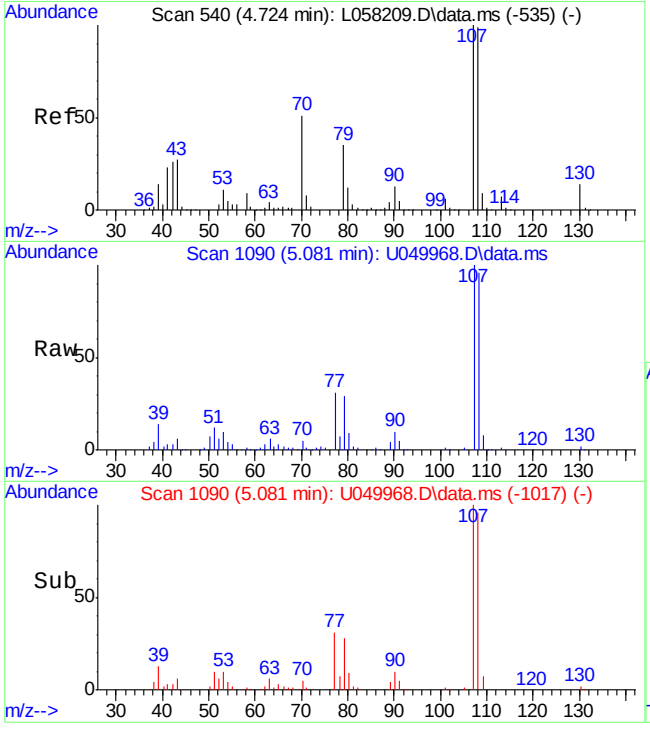


#20
N-Nitroso-di-n-propylamine
Concen: 42.64 ppm
RT: 5.073 min Scan# 1087
Delta R.T. -0.003 min
Lab File: U049968.D
Acq: 1 Apr 2015 4:46 pm

Tgt Ion: 70 Resp: 55231

Ion	Ratio	Lower	Upper
70	100		
42	54.7	22.6	82.6
130	27.3	0.0	57.6

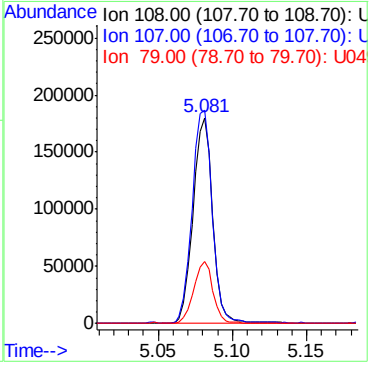




#21
3&4-Methylphenol
Concen: 84.99 ppm
RT: 5.081 min Scan# 1090
Delta R.T. 0.007 min
Lab File: U049968.D
Acq: 1 Apr 2015 4:46 pm

Tgt Ion:108 Resp: 166189

Ion	Ratio	Lower	Upper
108	100		
107	103.6	79.5	139.5
79	30.0	0.0	57.8



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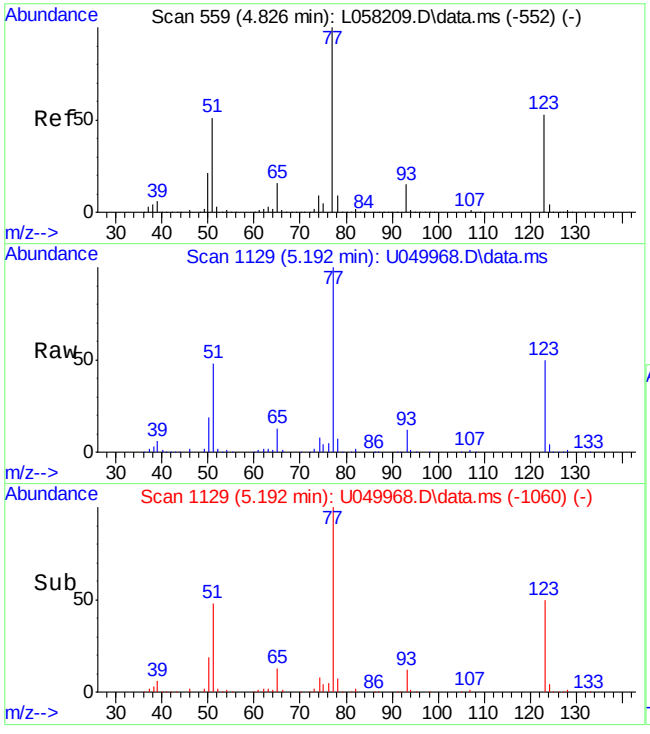
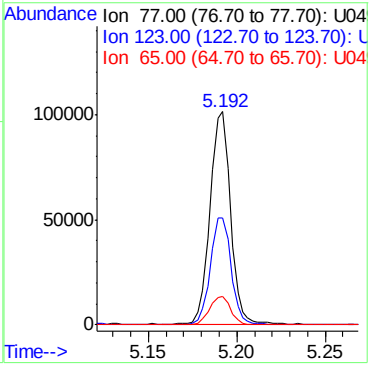
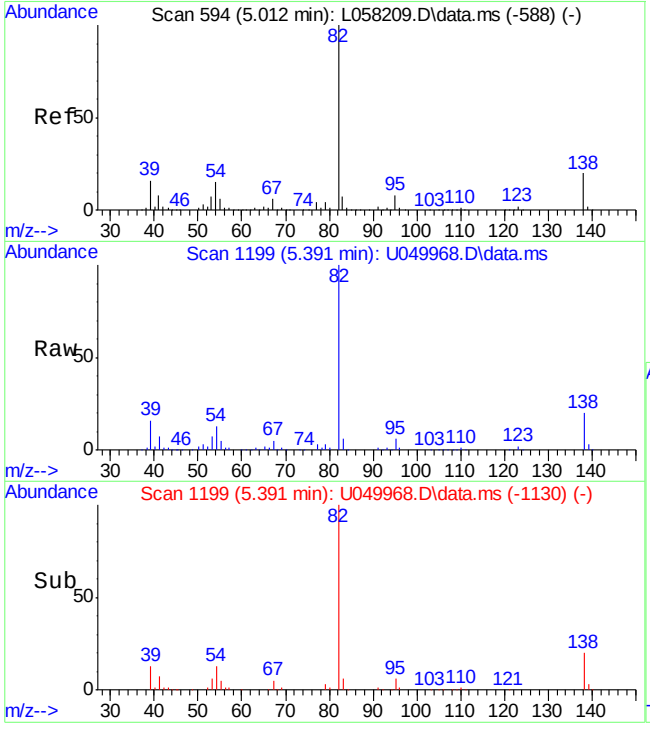


#24
Nitrobenzene
Concen: 39.07 ppm
RT: 5.192 min Scan# 1129
Delta R.T. -0.003 min
Lab File: U049968.D
Acq: 1 Apr 2015 4:46 pm

Tgt Ion: 77 Resp: 81357

Ion	Ratio	Lower	Upper
77	100		
123	50.1	19.9	79.9
65	13.4	0.0	42.9

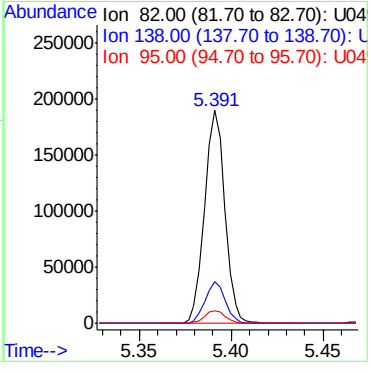




#25
Isophorone
Concen: 37.95 ppm
RT: 5.391 min Scan# 1199
Delta R.T. -0.004 min
Lab File: U049968.D
Acq: 1 Apr 2015 4:46 pm

Tgt Ion: 82 Resp: 146726

Ion	Ratio	Lower	Upper
82	100		
138	19.6	0.0	49.6
95	6.2	0.0	36.6



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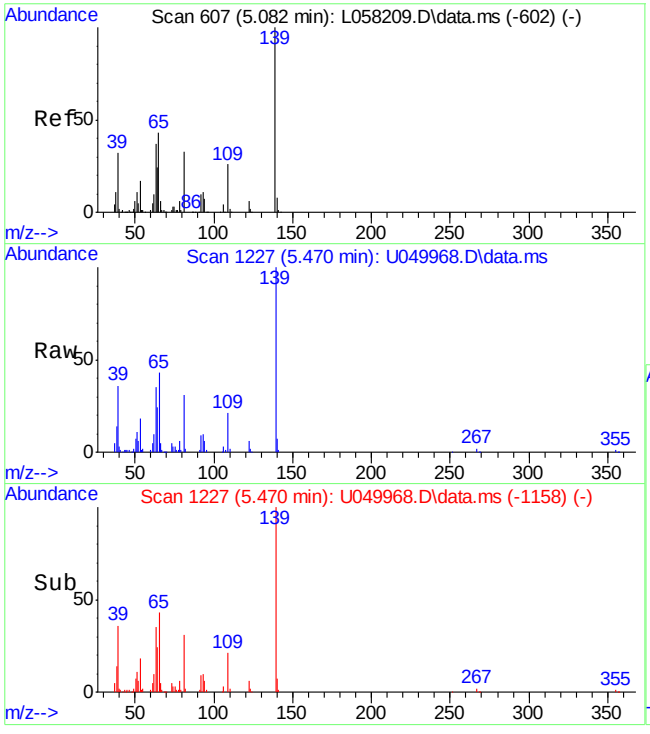
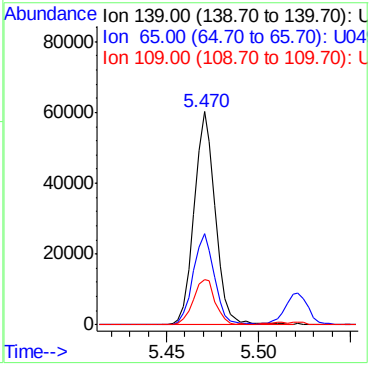
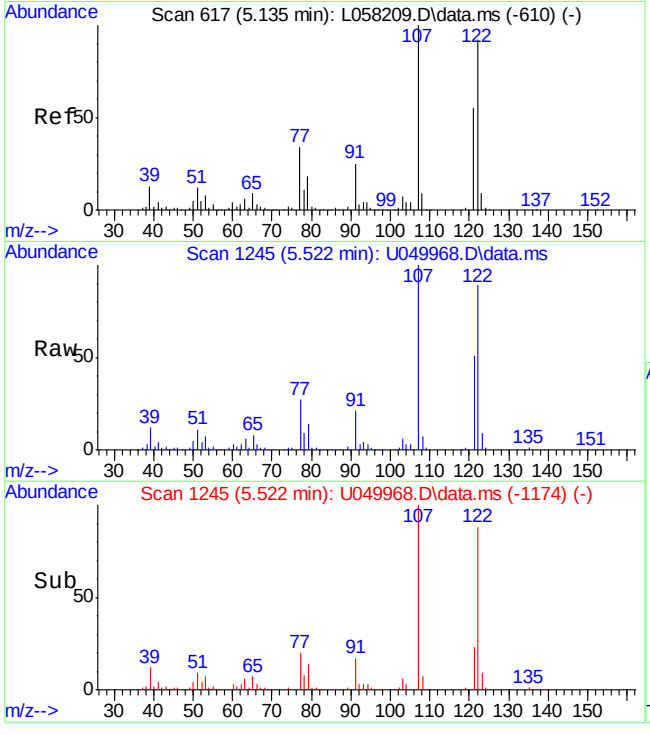


#26
2-Nitrophenol
Concen: 41.09 ppm
RT: 5.470 min Scan# 1227
Delta R.T. -0.004 min
Lab File: U049968.D
Acq: 1 Apr 2015 4:46 pm

Tgt Ion:139 Resp: 48062

Ion	Ratio	Lower	Upper
139	100		
65	35.5	3.8	63.8
109	20.7	0.0	51.7

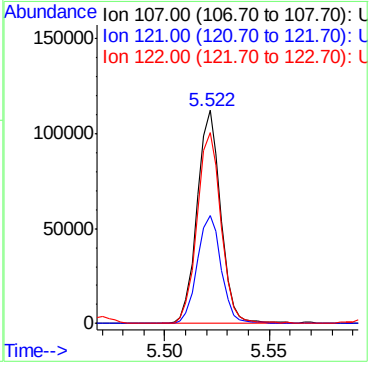




#27
2,4-Dimethylphenol
Concen: 44.29 ppm
RT: 5.522 min Scan# 1245
Delta R.T. 0.001 min
Lab File: U049968.D
Acq: 1 Apr 2015 4:46 pm

Tgt Ion:107 Resp: 87848

Ion	Ratio	Lower	Upper
107	100		
121	50.8	22.7	82.7
122	89.4	65.3	125.3



7.3.2

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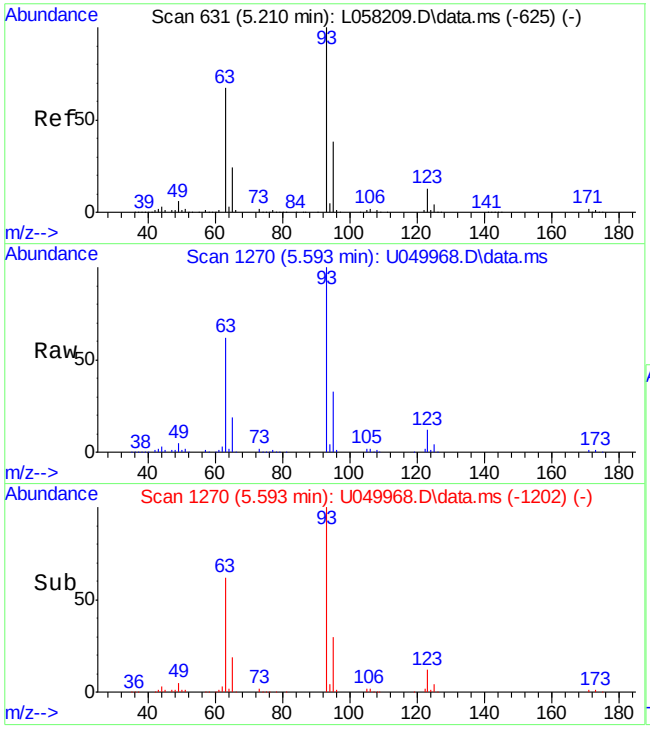
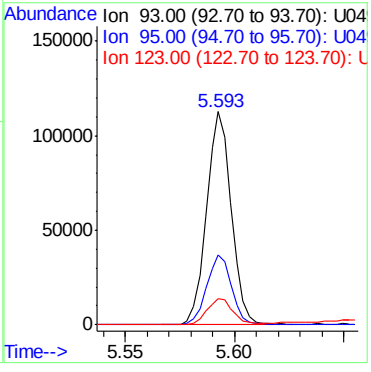
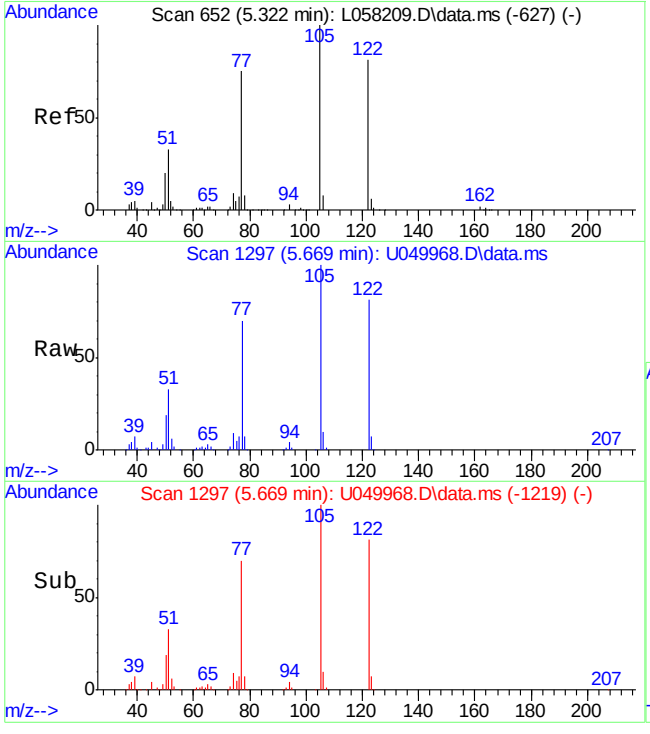


#28
bis(2-Chloroethoxy)methane
Concen: 38.71 ppm
RT: 5.593 min Scan# 1270
Delta R.T. -0.005 min
Lab File: U049968.D
Acq: 1 Apr 2015 4:46 pm

Tgt Ion: 93 Resp: 88565

Ion	Ratio	Lower	Upper
93	100		
95	32.7	2.3	62.3
123	11.8	0.0	41.8

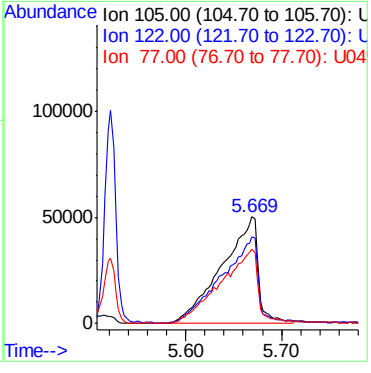




#29
Benzoic Acid
Concen: 82.62 ppm
RT: 5.669 min Scan# 1297
Delta R.T. 0.022 min
Lab File: U049968.D
Acq: 1 Apr 2015 4:46 pm

Tgt Ion:105 Resp: 133159

Ion	Ratio	Lower	Upper
105	100		
122	80.7	52.2	112.2
77	69.3	41.8	101.8



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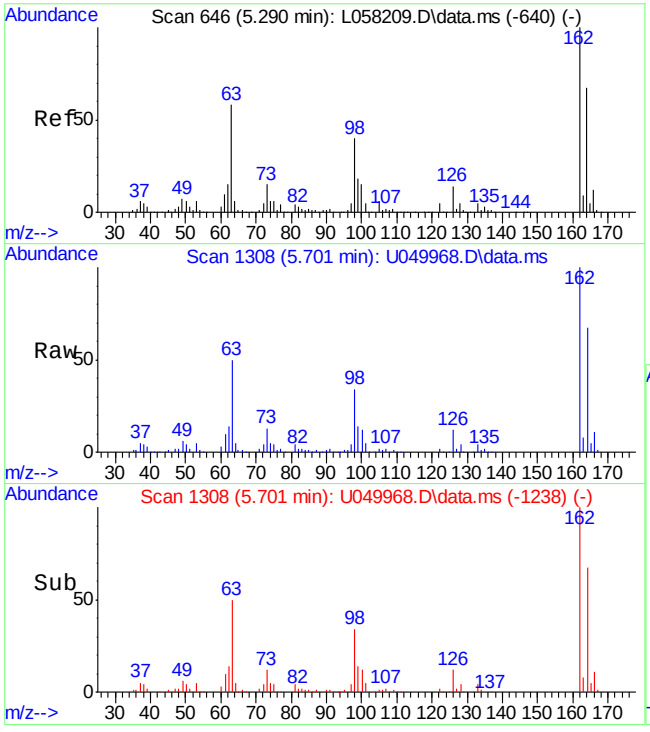
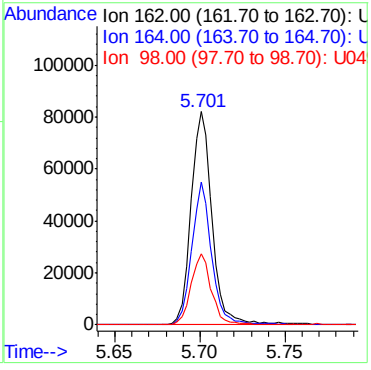
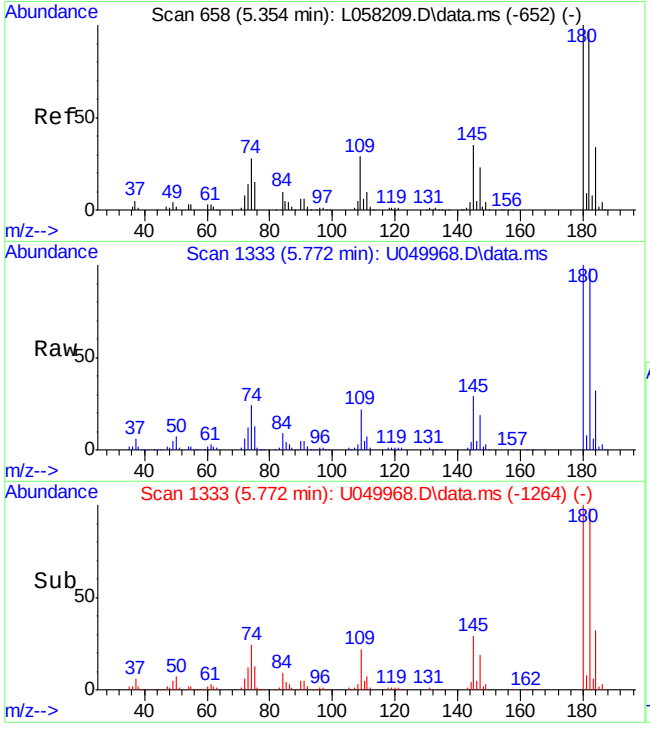


#30
2,4-Dichlorophenol
Concen: 41.90 ppm
RT: 5.701 min Scan# 1308
Delta R.T. -0.001 min
Lab File: U049968.D
Acq: 1 Apr 2015 4:46 pm

Tgt Ion:162 Resp: 71273

Ion	Ratio	Lower	Upper
162	100		
164	67.0	34.7	94.7
98	33.5	4.3	64.3

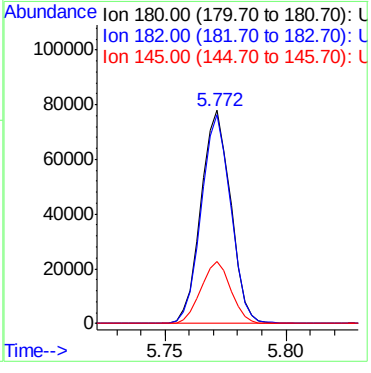




#31
1,2,4-Trichlorobenzene
Concen: 36.29 ppm
RT: 5.772 min Scan# 1333
Delta R.T. -0.005 min
Lab File: U049968.D
Acq: 1 Apr 2015 4:46 pm

Tgt Ion:180 Resp: 66440

Ion	Ratio	Lower	Upper
180	100		
182	97.9	64.7	124.7
145	28.9	0.0	59.6



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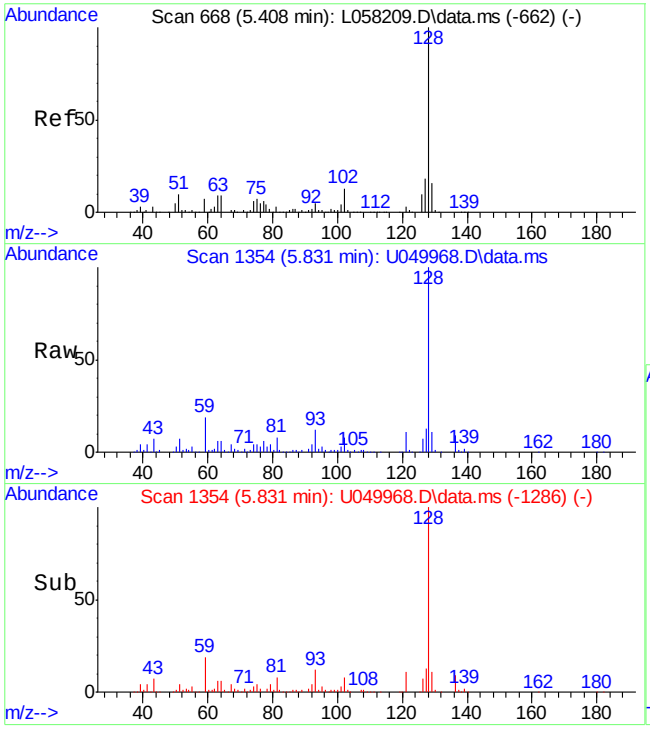
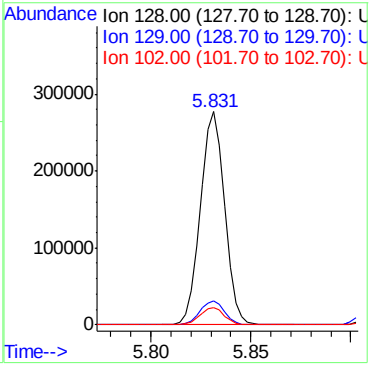
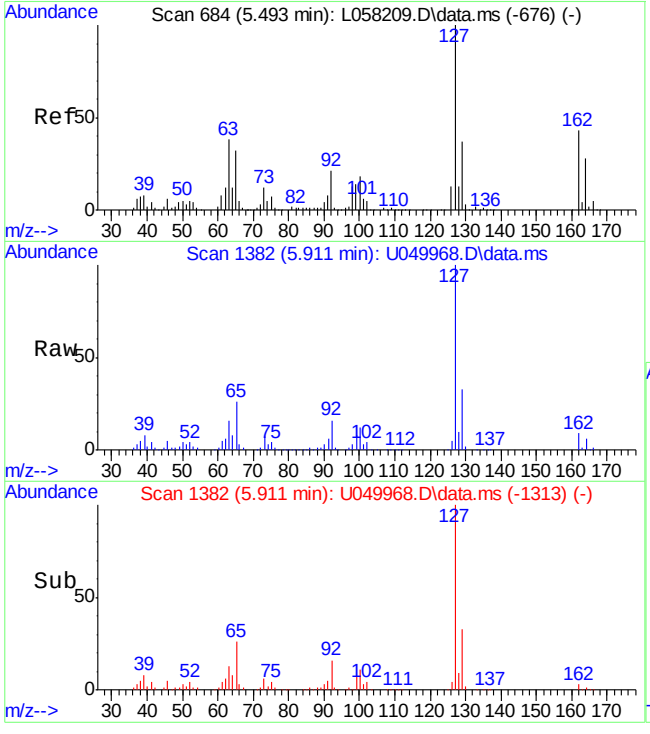


#33
Naphthalene
Concen: 39.65 ppm
RT: 5.831 min Scan# 1354
Delta R.T. -0.006 min
Lab File: U049968.D
Acq: 1 Apr 2015 4:46 pm

Tgt Ion:128 Resp: 236899

Ion	Ratio	Lower	Upper
128	100		
129	11.1	0.0	41.4
102	8.0	0.0	38.0

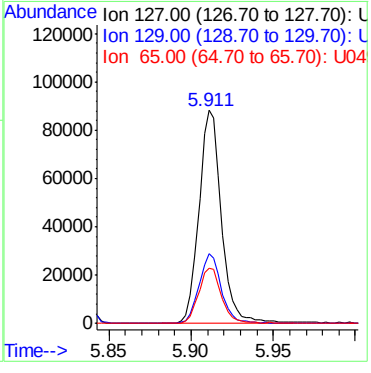




#34
4-Chloroaniline
Concen: 31.76 ppm
RT: 5.911 min Scan# 1382
Delta R.T. -0.003 min
Lab File: U049968.D
Acq: 1 Apr 2015 4:46 pm

Tgt Ion:127 Resp: 84293

Ion	Ratio	Lower	Upper
127	100		
129	32.7	3.8	63.8
65	25.7	0.0	55.3



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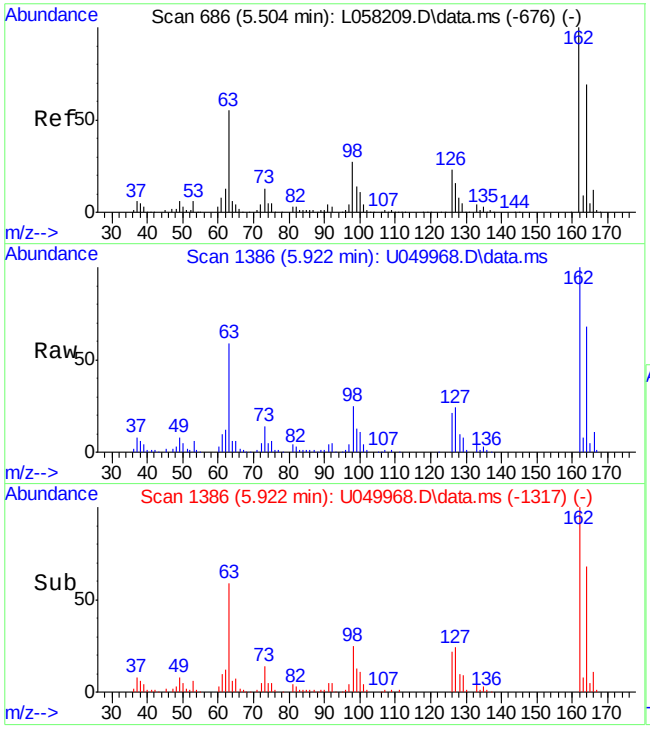
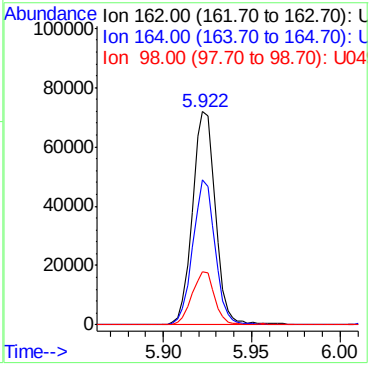
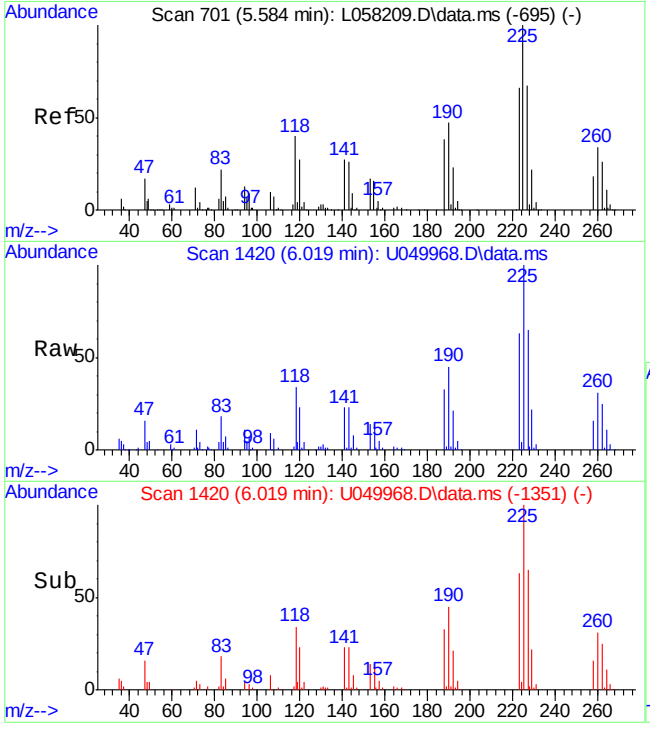


#35
2,6-Dichlorophenol
Concen: 38.02 ppm
RT: 5.922 min Scan# 1386
Delta R.T. -0.003 min
Lab File: U049968.D
Acq: 1 Apr 2015 4:46 pm

Tgt Ion:162 Resp: 65024

Ion	Ratio	Lower	Upper
162	100		
164	68.1	35.5	95.5
98	24.6	0.0	54.4

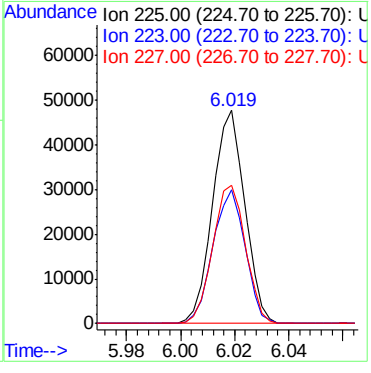




#36
Hexachlorobutadiene
Concen: 39.86 ppm
RT: 6.019 min Scan# 1420
Delta R.T. -0.005 min
Lab File: U049968.D
Acq: 1 Apr 2015 4:46 pm

Tgt Ion:225 Resp: 39292

Ion	Ratio	Lower	Upper
225	100		
223	62.8	33.3	93.3
227	64.8	32.9	92.9



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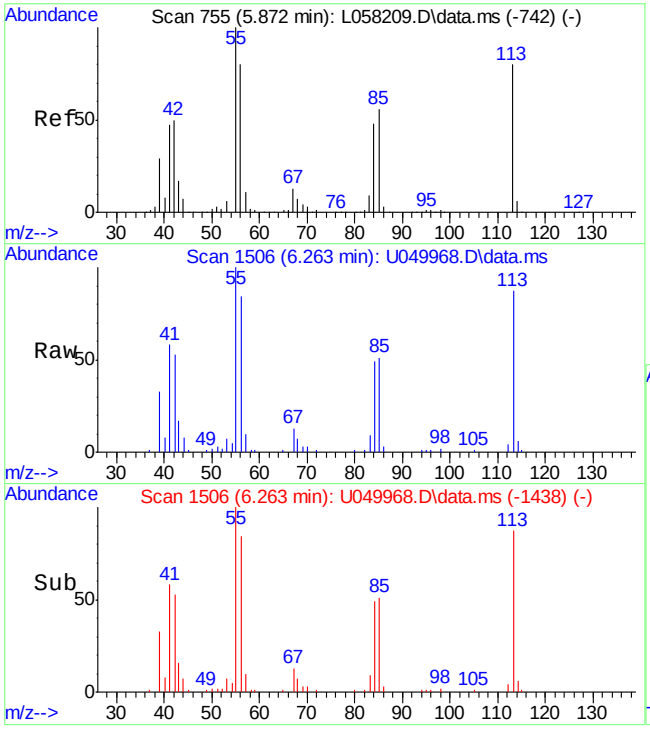
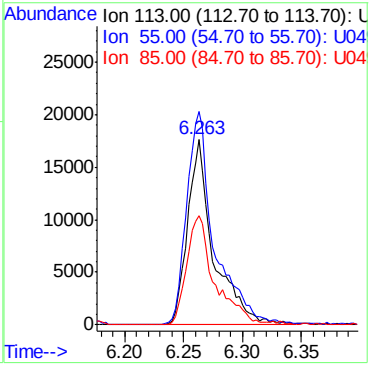
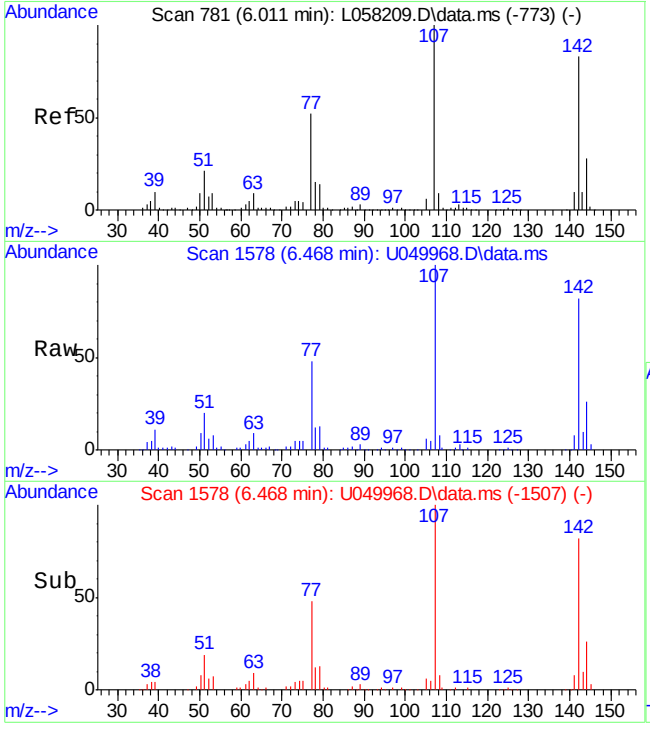


#37
Caprolactam
Concen: 38.96 ppm
RT: 6.263 min Scan# 1506
Delta R.T. -0.006 min
Lab File: U049968.D
Acq: 1 Apr 2015 4:46 pm

Tgt Ion:113 Resp: 26998

Ion	Ratio	Lower	Upper
113	100		
55	114.5	81.6	141.6
85	58.8	26.6	86.6

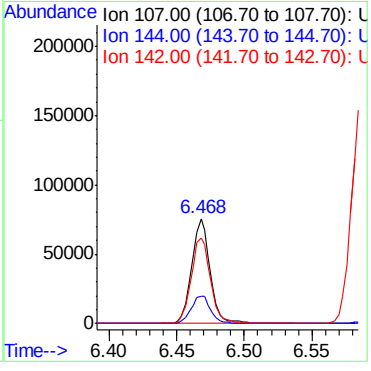




#38
4-Chloro-3-methylphenol
Concen: 41.77 ppm
RT: 6.468 min Scan# 1578
Delta R.T. 0.002 min
Lab File: U049968.D
Acq: 1 Apr 2015 4:46 pm

Tgt Ion:107 Resp: 71713

Ion	Ratio	Lower	Upper
107	100		
144	26.3	0.0	58.2
142	81.8	54.9	114.9



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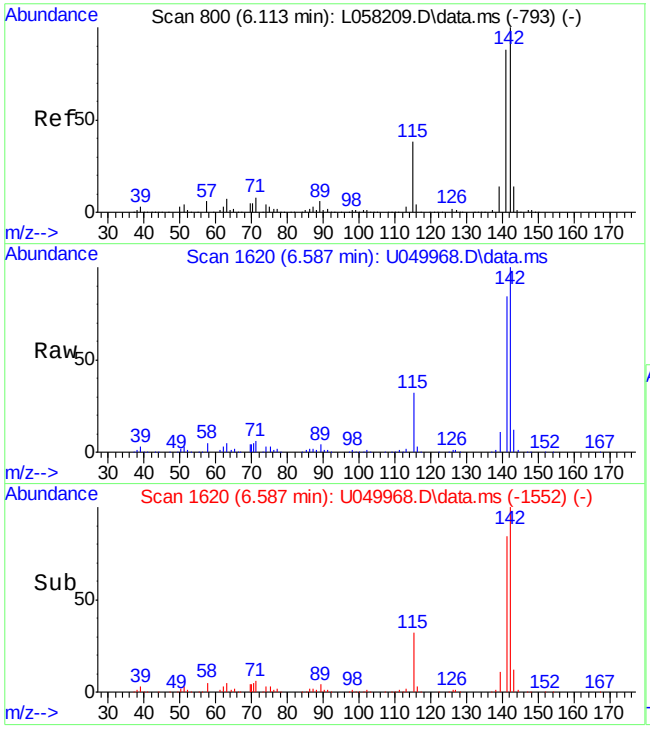
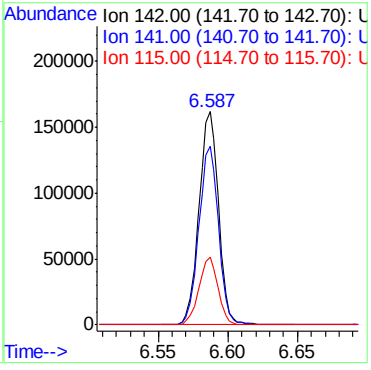
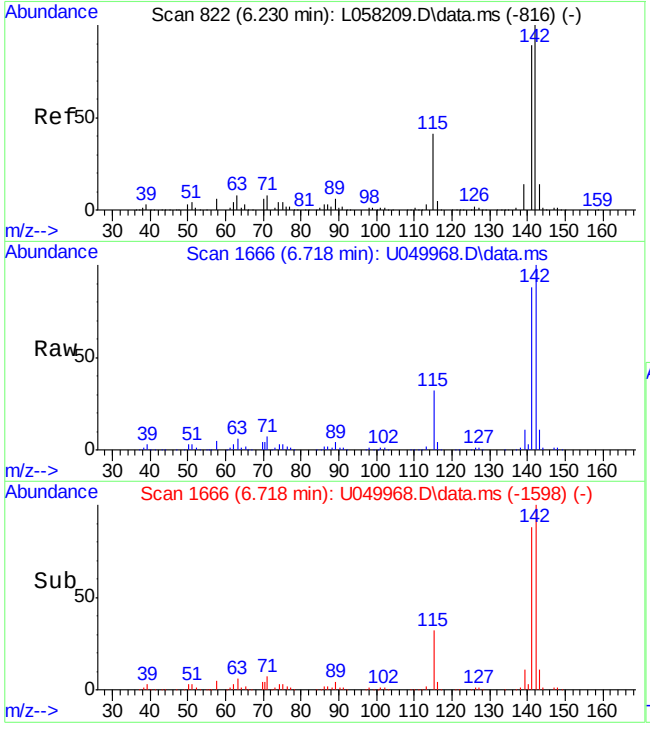


#39
2-Methylnaphthalene
Concen: 38.90 ppm
RT: 6.587 min Scan# 1620
Delta R.T. -0.007 min
Lab File: U049968.D
Acq: 1 Apr 2015 4:46 pm

Tgt Ion:142 Resp: 157835

Ion	Ratio	Lower	Upper
142	100		
141	83.6	52.7	112.7
115	31.6	0.5	60.5

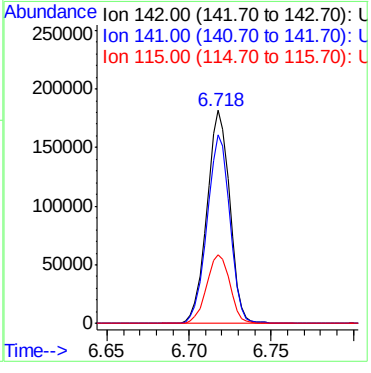




#40
1-Methylnaphthalene
Concen: 49.03 ppm
RT: 6.718 min Scan# 1666
Delta R.T. -0.007 min
Lab File: U049968.D
Acq: 1 Apr 2015 4:46 pm

Tgt Ion:142 Resp: 175272

Ion	Ratio	Lower	Upper
142	100		
141	88.2	57.4	117.4
115	32.4	2.8	62.8



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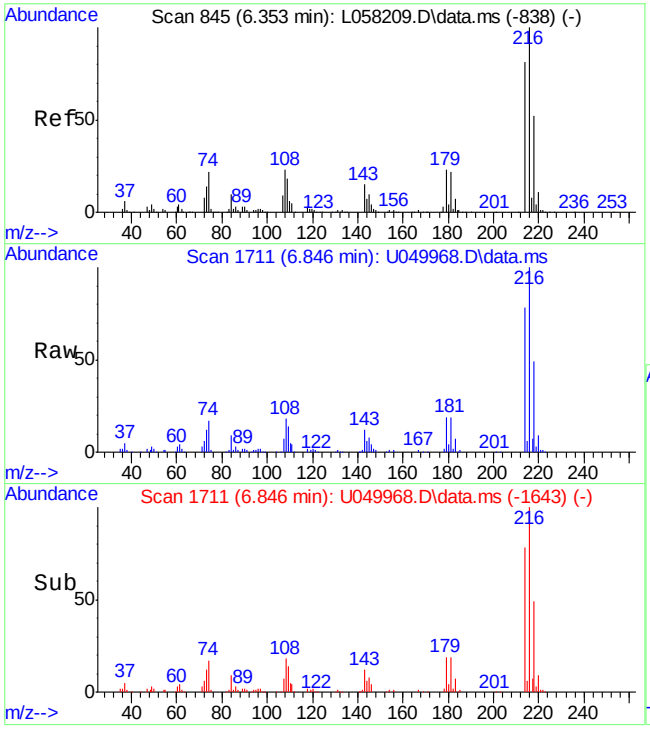
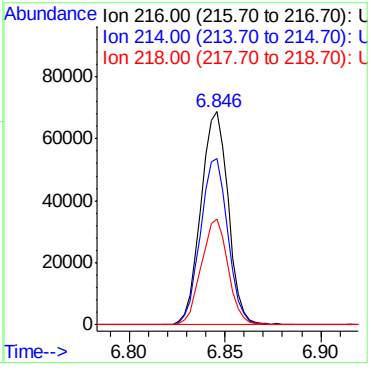
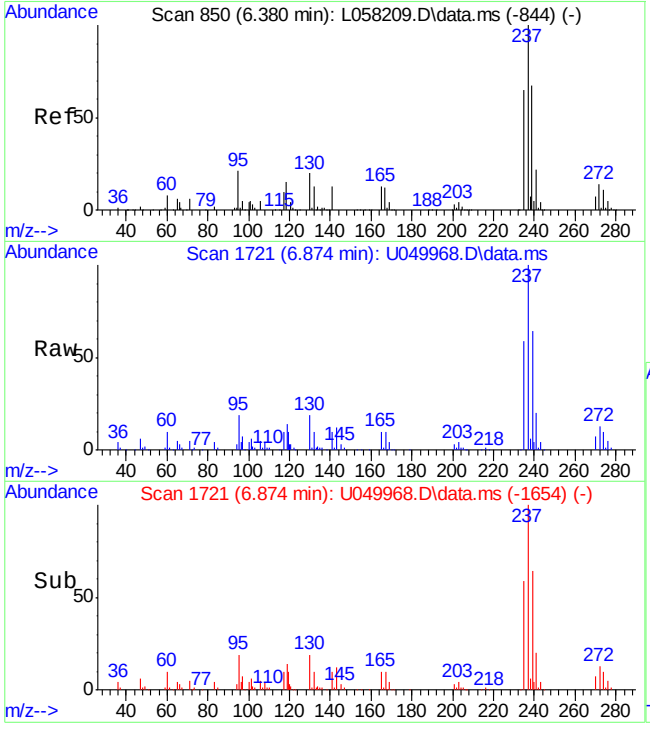


#41
1,2,4,5-Tetrachlorobenzene
Concen: 37.14 ppm
RT: 6.846 min Scan# 1711
Delta R.T. -0.006 min
Lab File: U049968.D
Acq: 1 Apr 2015 4:46 pm

Tgt Ion:216 Resp: 68145

Ion	Ratio	Lower	Upper
216	100		
214	77.7	49.1	109.1
218	49.5	17.4	77.4

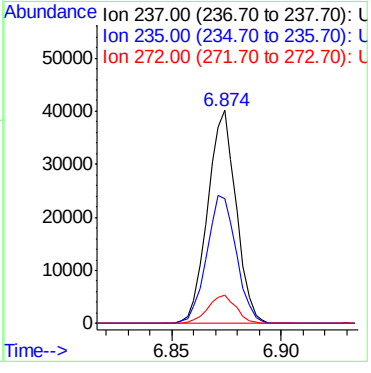


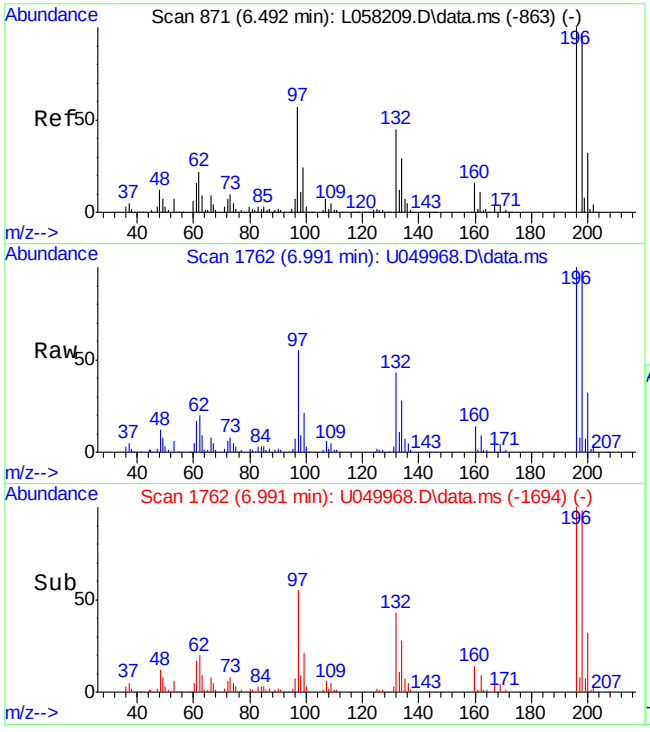


#43
Hexachlorocyclopentadiene
Concen: 36.06 ppm
RT: 6.874 min Scan# 1721
Delta R.T. -0.010 min
Lab File: U049968.D
Acq: 1 Apr 2015 4:46 pm

Tgt Ion:237 Resp: 36472

Ion	Ratio	Lower	Upper
237	100		
235	58.7	33.3	93.3
272	13.2	0.0	44.6

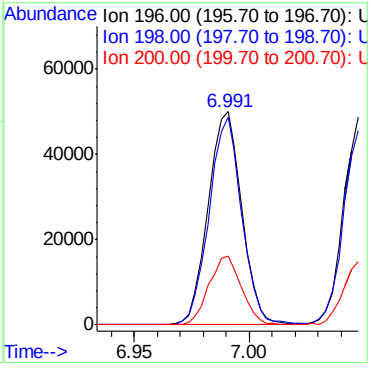


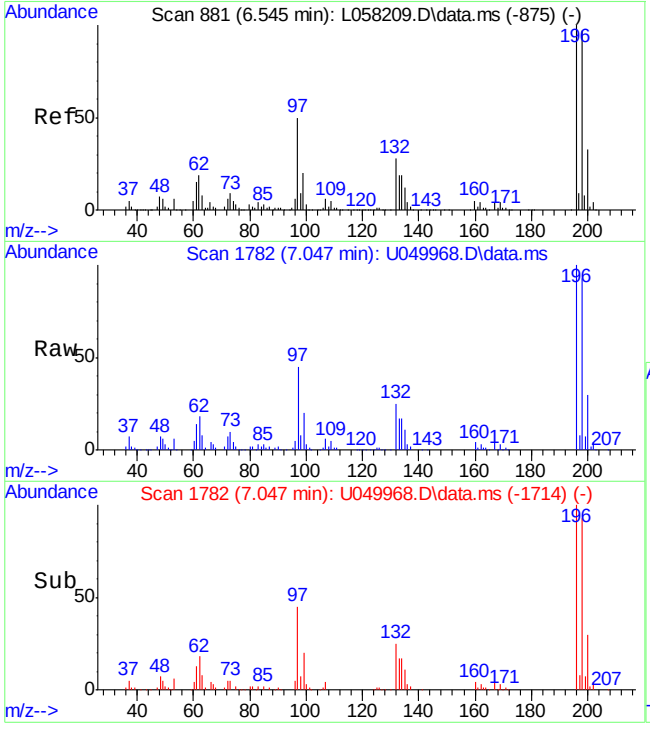


#44
2,4,6-Trichlorophenol
Concen: 48.68 ppm
RT: 6.991 min Scan# 1762
Delta R.T. -0.007 min
Lab File: U049968.D
Acq: 1 Apr 2015 4:46 pm

Tgt Ion:196 Resp: 50997

Ion	Ratio	Lower	Upper
196	100		
198	97.5	72.1	132.1
200	32.3	2.1	62.1

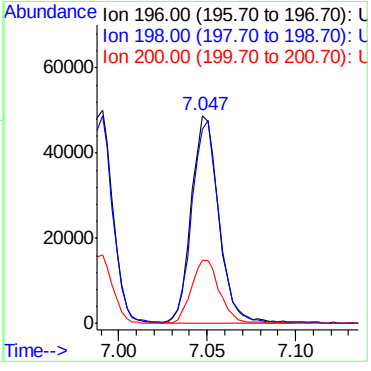




#45
2,4,5-Trichlorophenol
Concen: 46.89 ppm
RT: 7.047 min Scan# 1782
Delta R.T. -0.006 min
Lab File: U049968.D
Acq: 1 Apr 2015 4:46 pm

Tgt Ion:196 Resp: 51974

Ion	Ratio	Lower	Upper
196	100		
198	93.4	61.8	121.8
200	30.4	0.0	59.8



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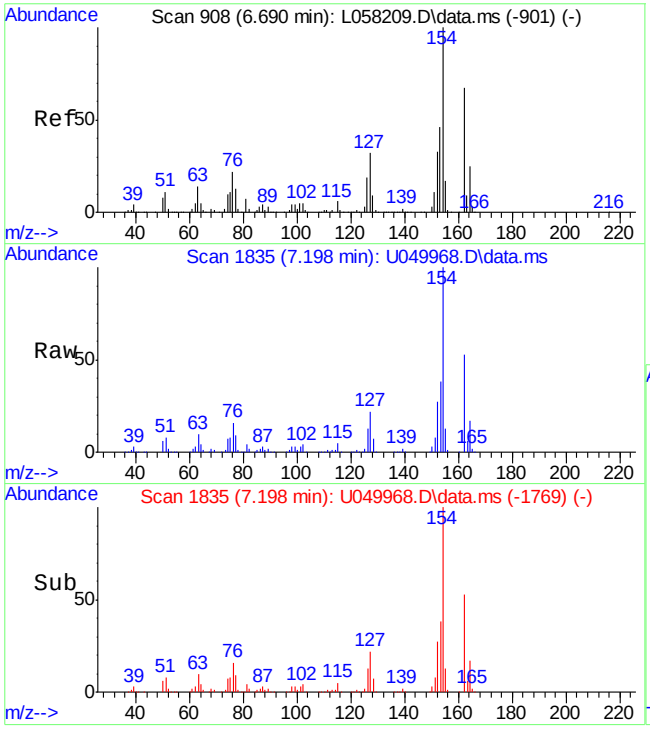
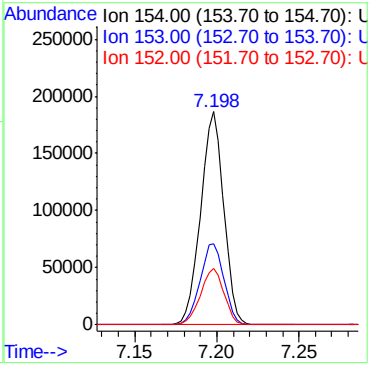
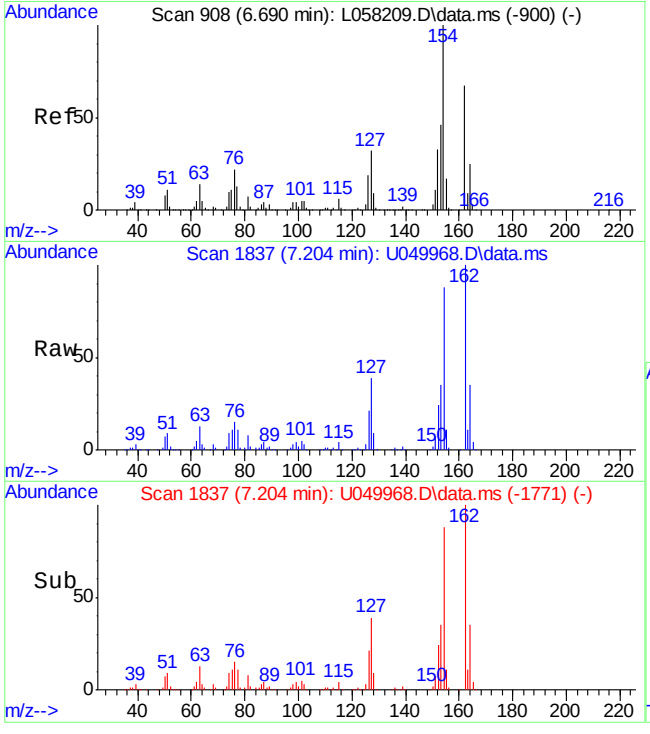


#47
1,1'-Biphenyl
Concen: 43.91 ppm
RT: 7.198 min Scan# 1835
Delta R.T. -0.012 min
Lab File: U049968.D
Acq: 1 Apr 2015 4:46 pm

Tgt Ion:154 Resp: 182522

Ion	Ratio	Lower	Upper
154	100		
153	38.0	10.2	70.2
152	26.6	0.0	57.3

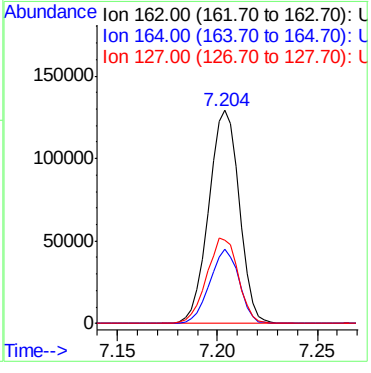


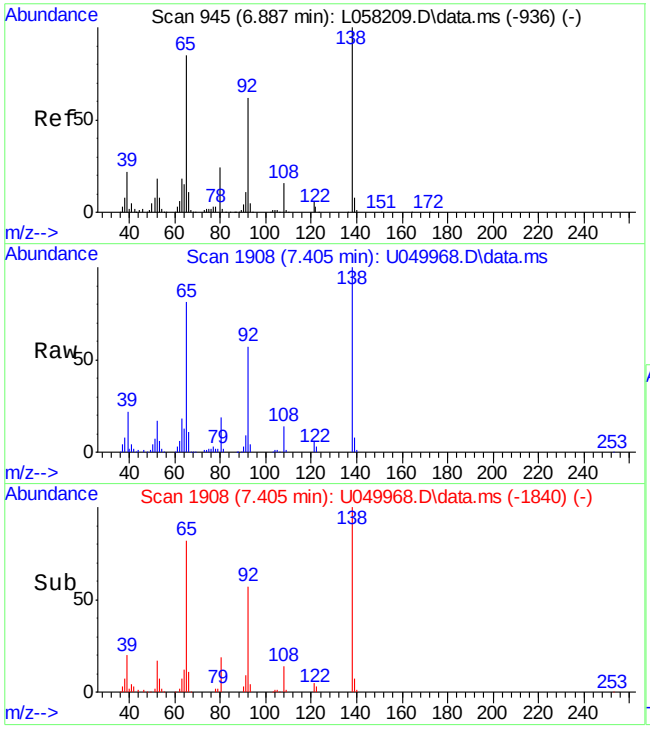


#48
2-Chloronaphthalene
Concen: 44.75 ppm
RT: 7.204 min Scan# 1837
Delta R.T. -0.012 min
Lab File: U049968.D
Acq: 1 Apr 2015 4:46 pm

Tgt Ion:162 Resp: 139344

Ion	Ratio	Lower	Upper
162	100		
164	34.8	2.7	62.7
127	38.9	10.3	70.3

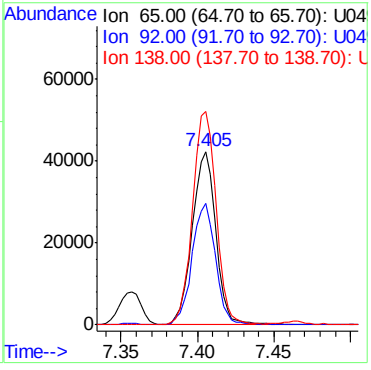


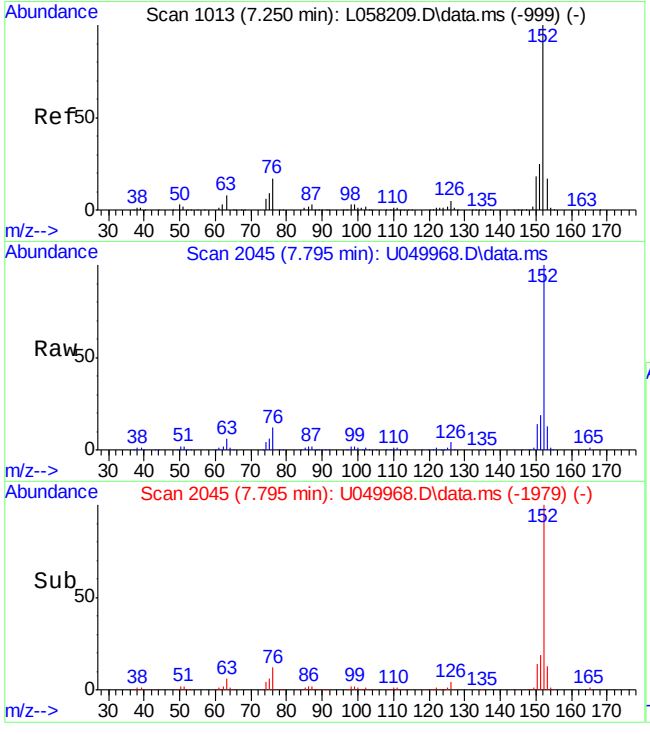


#49
2-Nitroaniline
Concen: 48.31 ppm
RT: 7.405 min Scan# 1908
Delta R.T. -0.007 min
Lab File: U049968.D
Acq: 1 Apr 2015 4:46 pm

Tgt Ion: 65 Resp: 45176

Ion	Ratio	Lower	Upper
65	100		
92	69.8	43.2	103.2
138	122.1	99.1	159.1

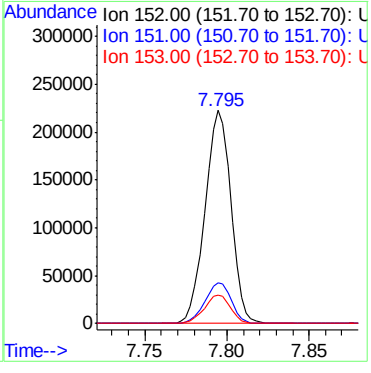




#51
Acenaphthylene
Concen: 47.16 ppm
RT: 7.795 min Scan# 2045
Delta R.T. -0.012 min
Lab File: U049968.D
Acq: 1 Apr 2015 4:46 pm

Tgt Ion:152 Resp: 244279

Ion	Ratio	Lower	Upper
152	100		
151	18.9	0.0	49.6
153	13.4	0.0	43.2



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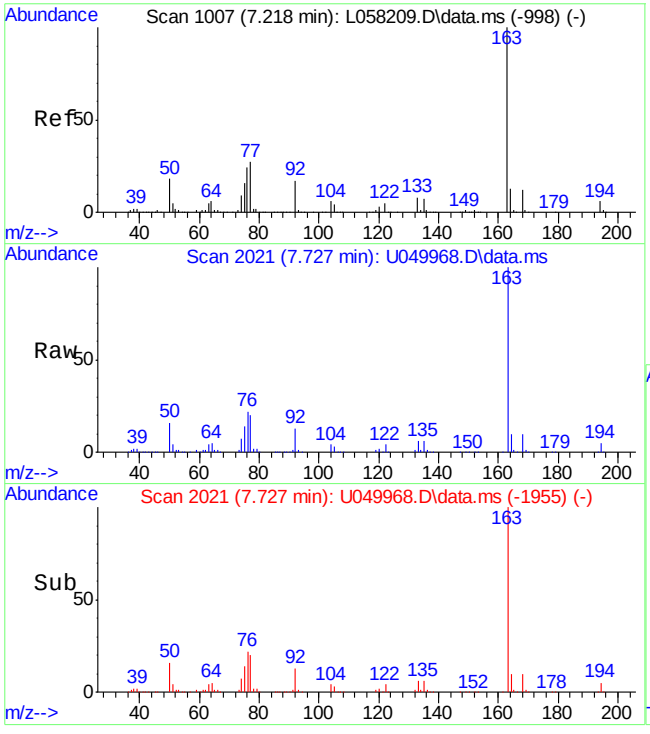
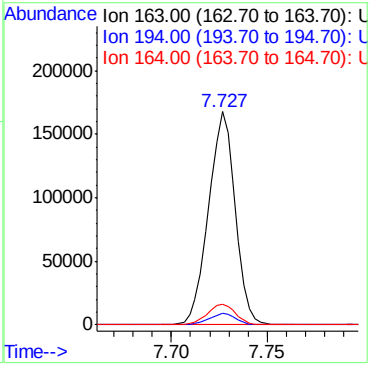
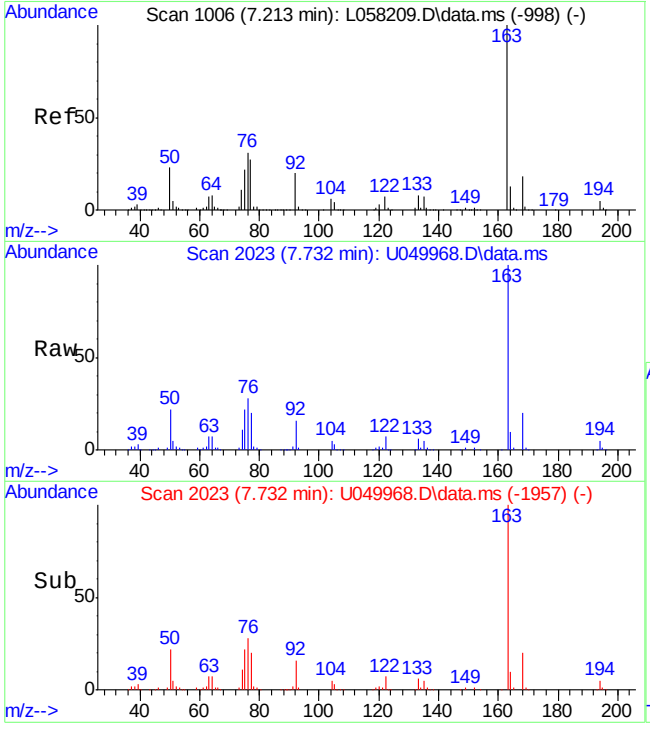


#52
Dimethylphthalate
Concen: 45.76 ppm
RT: 7.727 min Scan# 2021
Delta R.T. -0.012 min
Lab File: U049968.D
Acq: 1 Apr 2015 4:46 pm

Tgt Ion:163 Resp: 162486

Ion	Ratio	Lower	Upper
163	100		
194	5.3	0.0	35.6
164	9.8	0.0	40.3

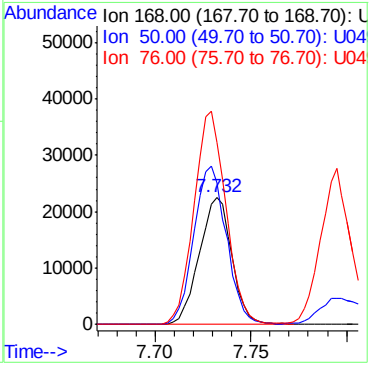


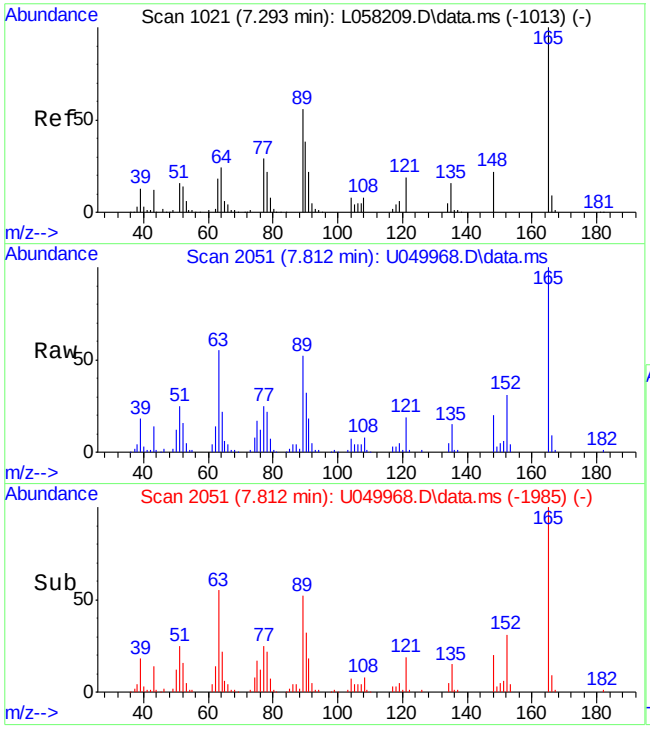


#53
m-Dinitrobenzene
Concen: 41.52 ppm
RT: 7.732 min Scan# 2023
Delta R.T. -0.011 min
Lab File: U049968.D
Acq: 1 Apr 2015 4:46 pm

Tgt Ion:168 Resp: 26495

Ion	Ratio	Lower	Upper
168	100		
50	110.0	83.9	143.9
76	141.4	115.9	175.9

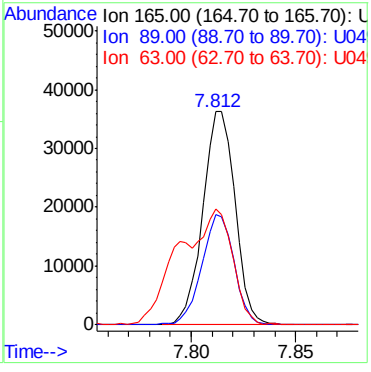


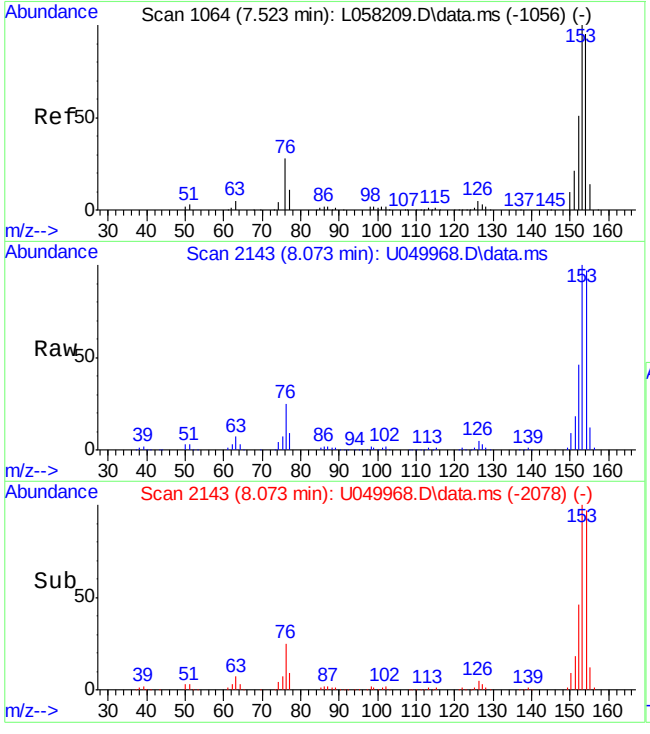


#54
2,6-Dinitrotoluene
Concen: 44.83 ppm
RT: 7.812 min Scan# 2051
Delta R.T. -0.013 min
Lab File: U049968.D
Acq: 1 Apr 2015 4:46 pm

Tgt Ion:165 Resp: 38947

Ion	Ratio	Lower	Upper
165	100		
89	51.2	16.8	76.8
63	44.7	13.4	73.4

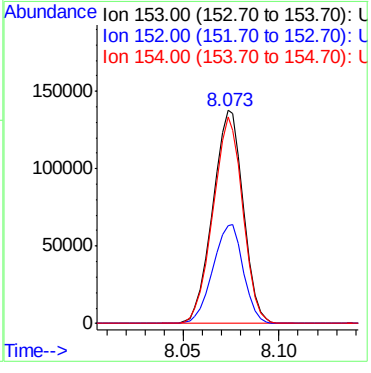




#56
Acenaphthene
Concen: 48.04 ppm
RT: 8.073 min Scan# 2143
Delta R.T. -0.015 min
Lab File: U049968.D
Acq: 1 Apr 2015 4:46 pm

Tgt Ion:153 Resp: 152448

Ion	Ratio	Lower	Upper
153	100		
152	45.7	15.1	75.1
154	96.7	62.3	122.3



7.3.2

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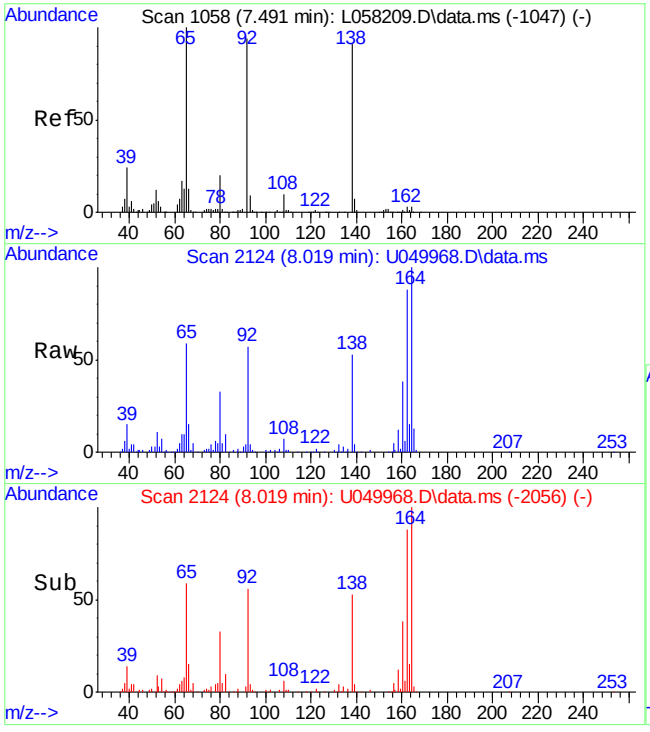
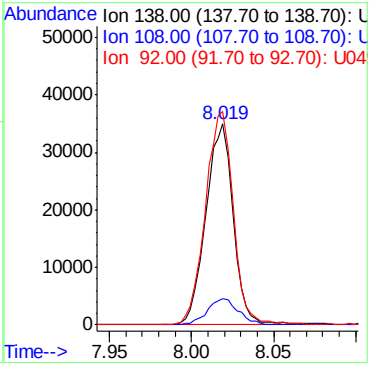
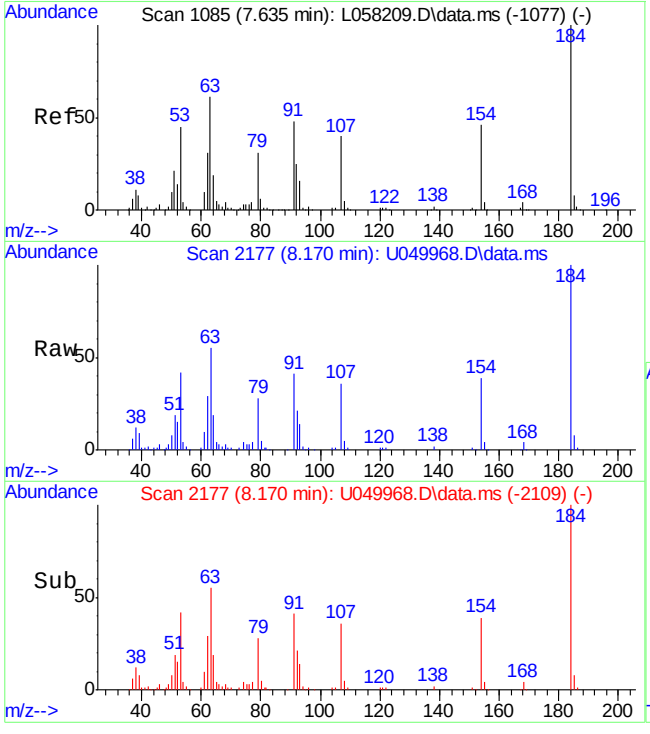


#57
3-Nitroaniline
Concen: 41.89 ppm
RT: 8.019 min Scan# 2124
Delta R.T. -0.007 min
Lab File: U049968.D
Acq: 1 Apr 2015 4:46 pm

Tgt Ion:138 Resp: 40391

Ion	Ratio	Lower	Upper
138	100		
108	12.8	0.0	44.0
92	106.2	70.4	130.4

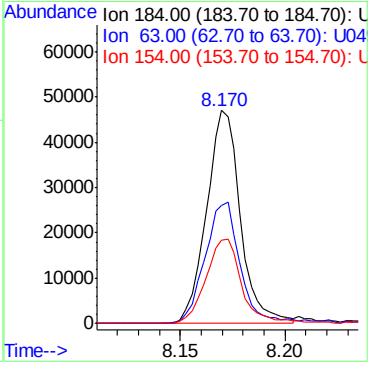


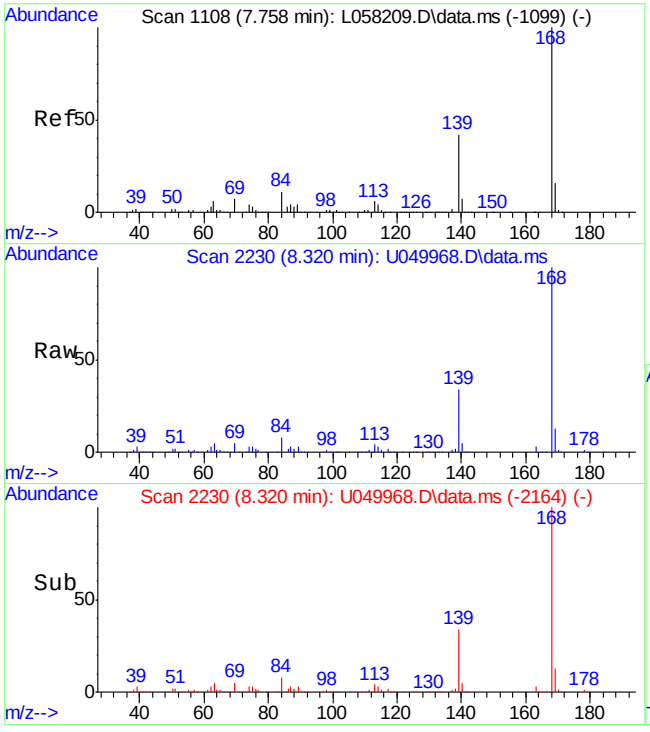


#58
2,4-Dinitrophenol
Concen: 85.03 ppm
RT: 8.170 min Scan# 2177
Delta R.T. -0.007 min
Lab File: U049968.D
Acq: 1 Apr 2015 4:46 pm

Tgt Ion:184 Resp: 52990

Ion	Ratio	Lower	Upper
184	100		
63	55.2	20.1	80.1
154	38.6	9.0	69.0

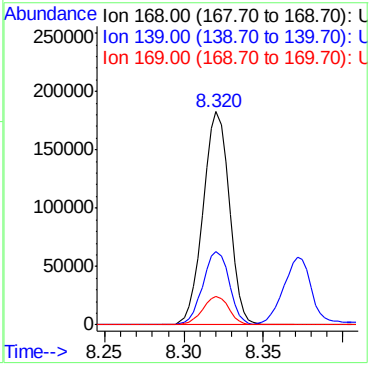


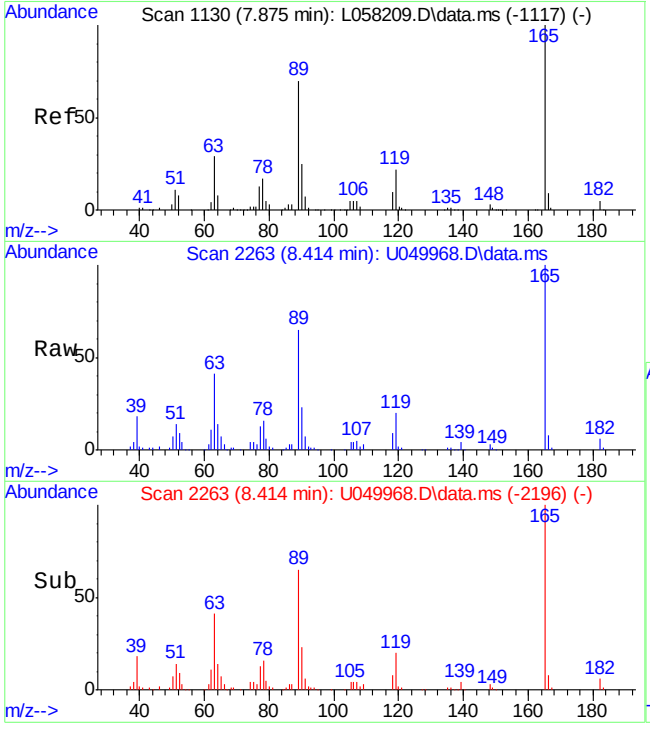


#59
Dibenzofuran
Concen: 45.36 ppm
RT: 8.320 min Scan# 2230
Delta R.T. -0.012 min
Lab File: U049968.D
Acq: 1 Apr 2015 4:46 pm

Tgt Ion:168 Resp: 204583

Ion	Ratio	Lower	Upper
168	100		
139	19.9	4.8	64.8
169	13.1	0.0	43.3

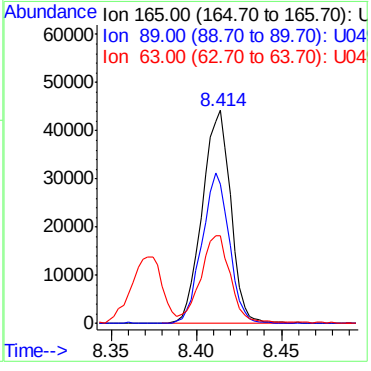




#60
2,4-Dinitrotoluene
Concen: 44.22 ppm
RT: 8.414 min Scan# 2263
Delta R.T. -0.009 min
Lab File: U049968.D
Acq: 1 Apr 2015 4:46 pm

Tgt Ion:165 Resp: 51236

Ion	Ratio	Lower	Upper
165	100		
89	65.0	35.2	95.2
63	32.2	2.0	62.0



7.3.2

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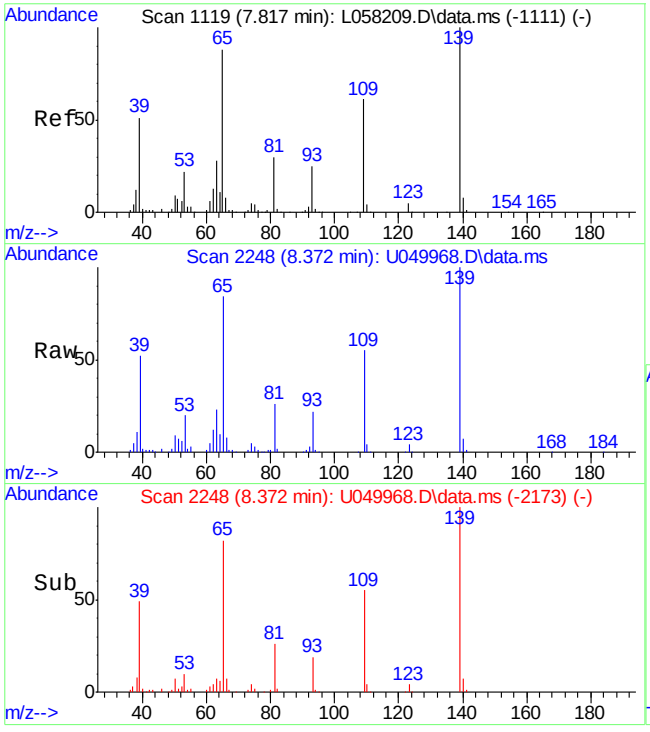
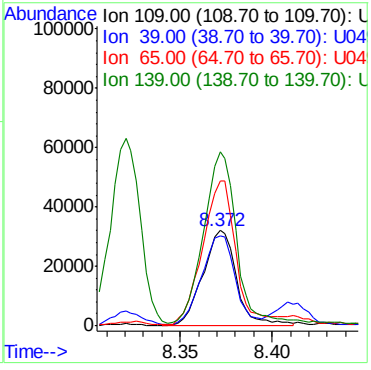
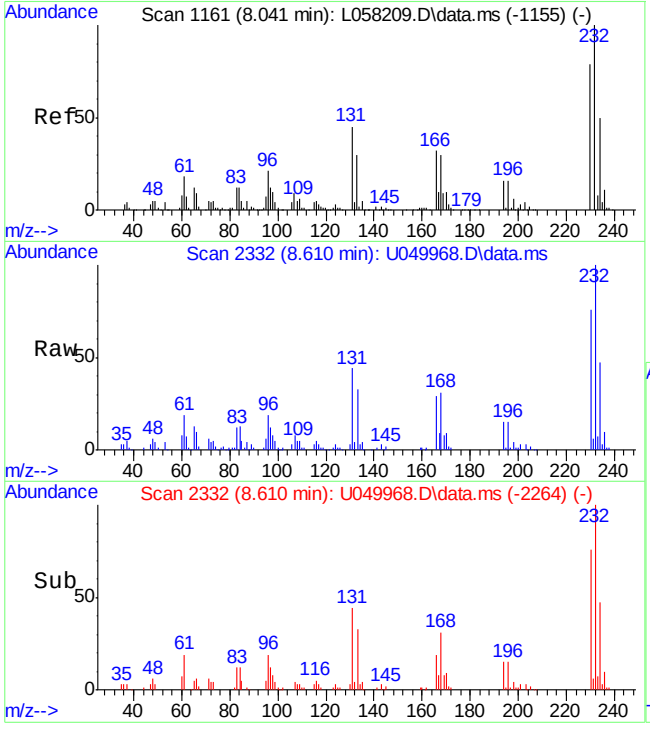


#61
4-Nitrophenol
Concen: 97.78 ppm
RT: 8.372 min Scan# 2248
Delta R.T. 0.012 min
Lab File: U049968.D
Acq: 1 Apr 2015 4:46 pm

Tgt Ion:109 Resp: 40614

Ion	Ratio	Lower	Upper
109	100		
39	84.2	68.2	128.2
65	149.5	123.5	183.5
139	180.2	156.0	216.0

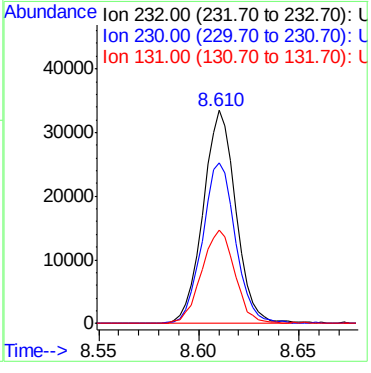




#63
2,3,4,6-Tetrachlorophenol
Concen: 43.31 ppm
RT: 8.610 min Scan# 2332
Delta R.T. -0.007 min
Lab File: U049968.D
Acq: 1 Apr 2015 4:46 pm

Tgt Ion:232 Resp: 38611

Ion	Ratio	Lower	Upper
232	100		
230	75.5	43.0	103.0
131	43.8	12.9	72.9



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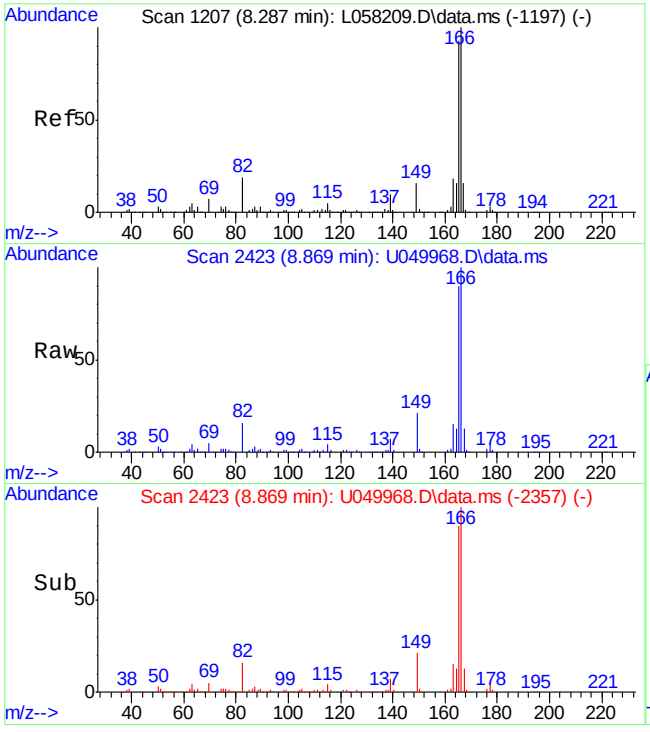
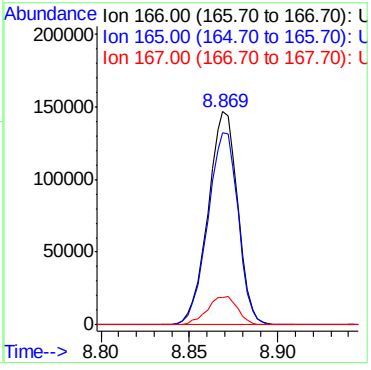
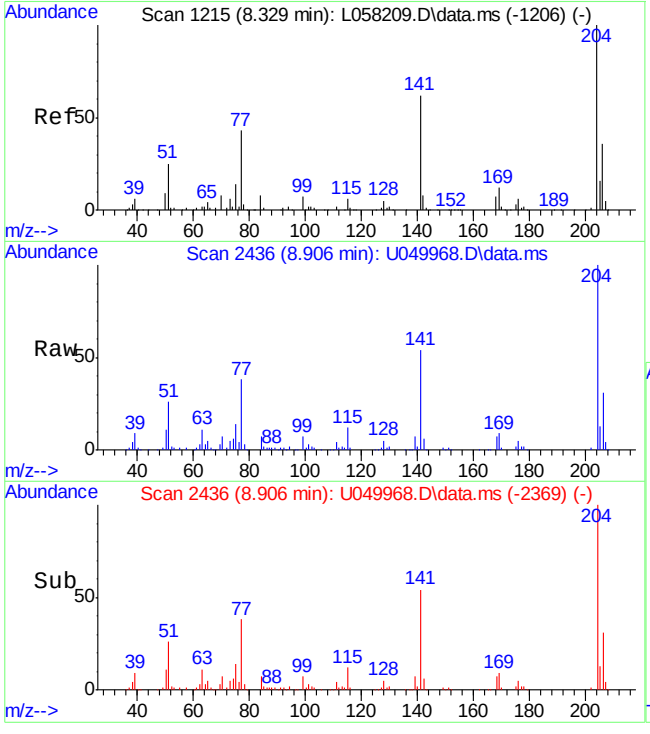


#64
Fluorene
Concen: 47.59 ppm
RT: 8.869 min Scan# 2423
Delta R.T. -0.011 min
Lab File: U049968.D
Acq: 1 Apr 2015 4:46 pm

Tgt Ion:166 Resp: 171150

Ion	Ratio	Lower	Upper
166	100		
165	90.0	61.7	121.7
167	12.5	0.0	43.2

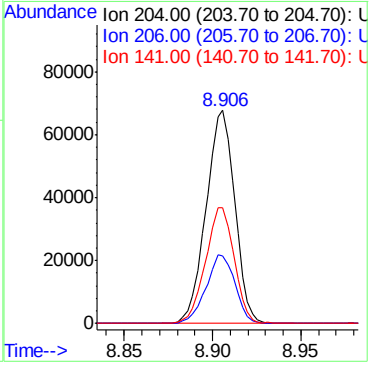




#65
4-Chlorophenyl-phenylether
Concen: 44.30 ppm
RT: 8.906 min Scan# 2436
Delta R.T. -0.008 min
Lab File: U049968.D
Acq: 1 Apr 2015 4:46 pm

Tgt Ion:204 Resp: 76481

Ion	Ratio	Lower	Upper
204	100		
206	31.5	2.7	62.7
141	54.3	22.9	82.9



7.3.2

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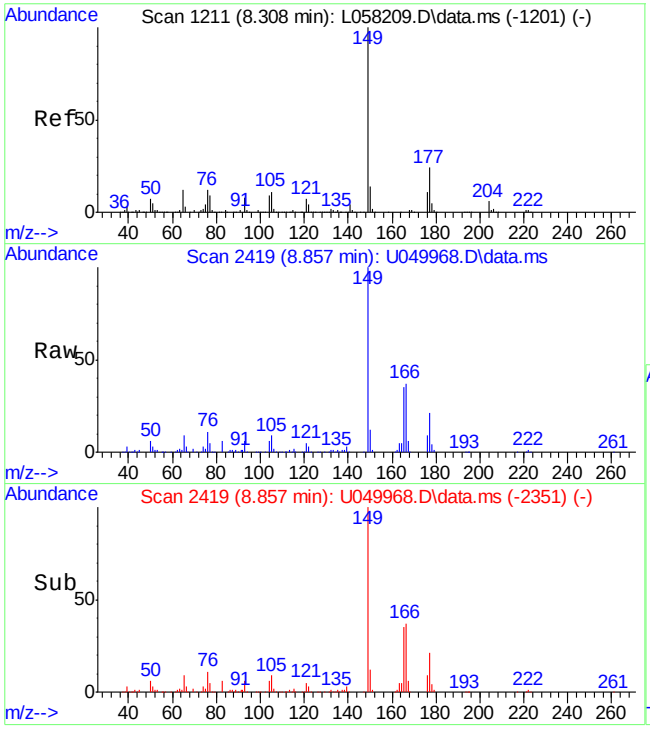
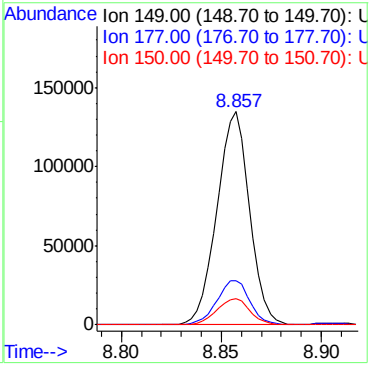
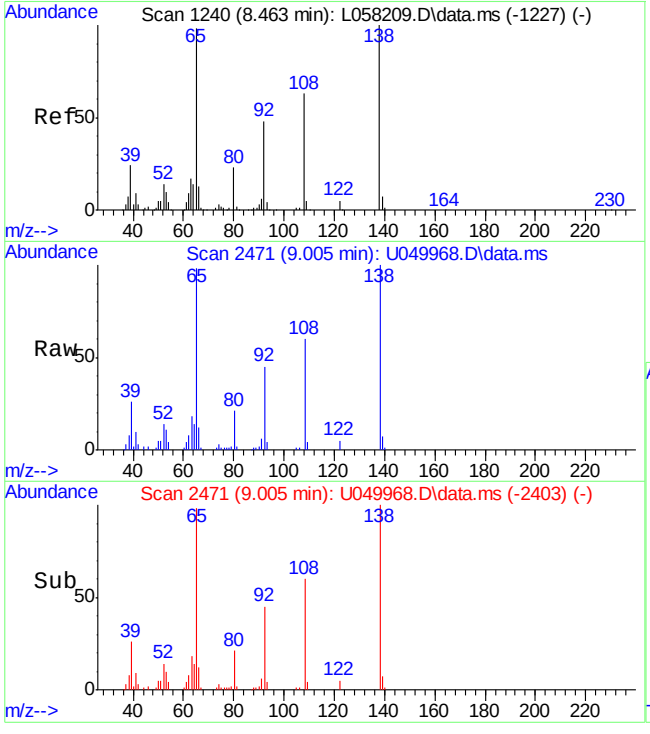


#66
Diethylphthalate
Concen: 45.57 ppm
RT: 8.857 min Scan# 2419
Delta R.T. -0.007 min
Lab File: U049968.D
Acq: 1 Apr 2015 4:46 pm

Tgt Ion:149 Resp: 154137

Ion	Ratio	Lower	Upper
149	100		
177	20.5	0.0	51.2
150	12.0	0.0	41.6

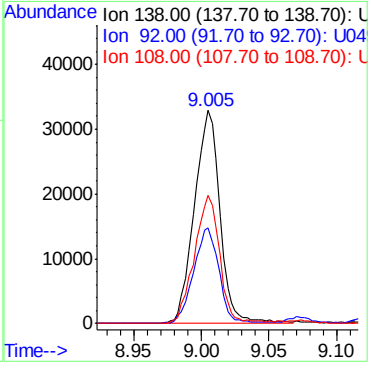


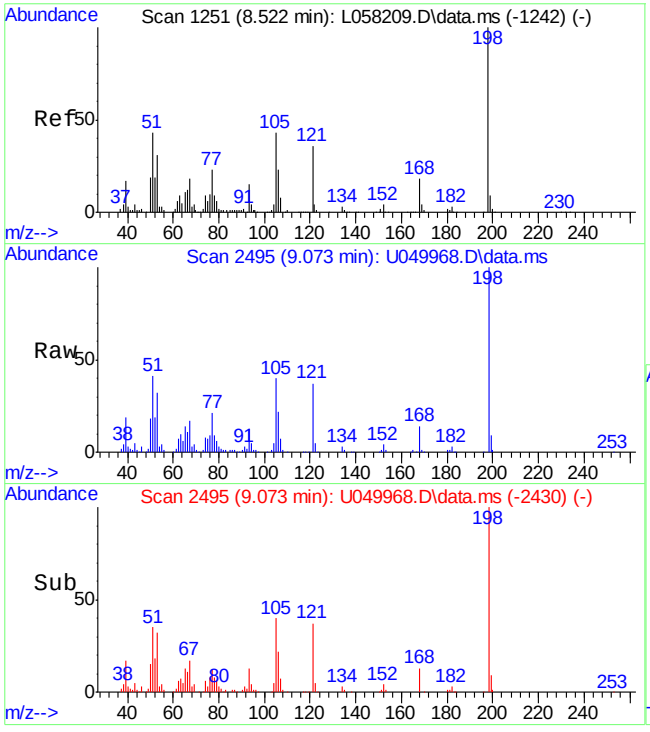


#67
4-Nitroaniline
Concen: 44.59 ppm
RT: 9.005 min Scan# 2471
Delta R.T. -0.007 min
Lab File: U049968.D
Acq: 1 Apr 2015 4:46 pm

Tgt Ion:138 Resp: 43455

Ion	Ratio	Lower	Upper
138	100		
92	44.0	15.8	75.8
108	59.6	25.1	85.1

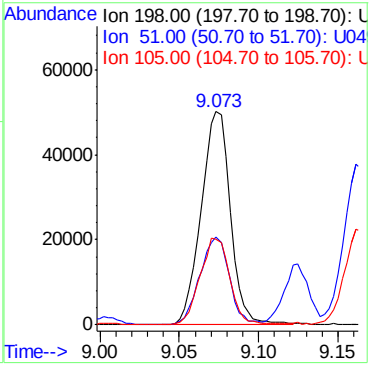


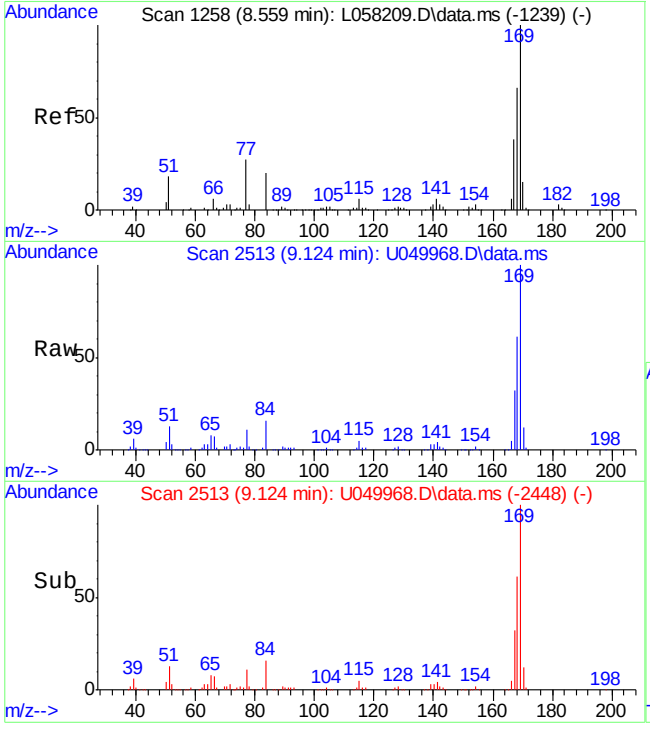


#69
4,6-Dinitro-2-methylphenol
Concen: 93.19 ppm
RT: 9.073 min Scan# 2495
Delta R.T. -0.014 min
Lab File: U049968.D
Acq: 1 Apr 2015 4:46 pm

Tgt Ion:198 Resp: 62634

Ion	Ratio	Lower	Upper
198	100		
51	27.1	3.2	63.2
105	40.0	8.7	68.7

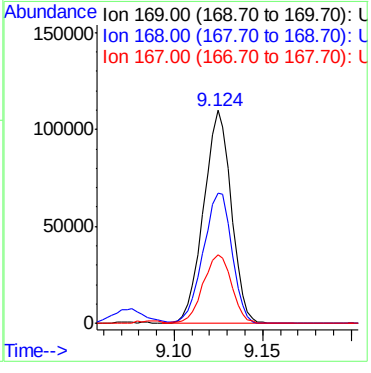




#70
n-Nitrosodiphenylamine
Concen: 47.40 ppm
RT: 9.124 min Scan# 2513
Delta R.T. -0.015 min
Lab File: U049968.D
Acq: 1 Apr 2015 4:46 pm

Tgt Ion:169 Resp: 119019

Ion	Ratio	Lower	Upper
169	100		
168	60.6	32.2	92.2
167	31.7	2.7	62.7



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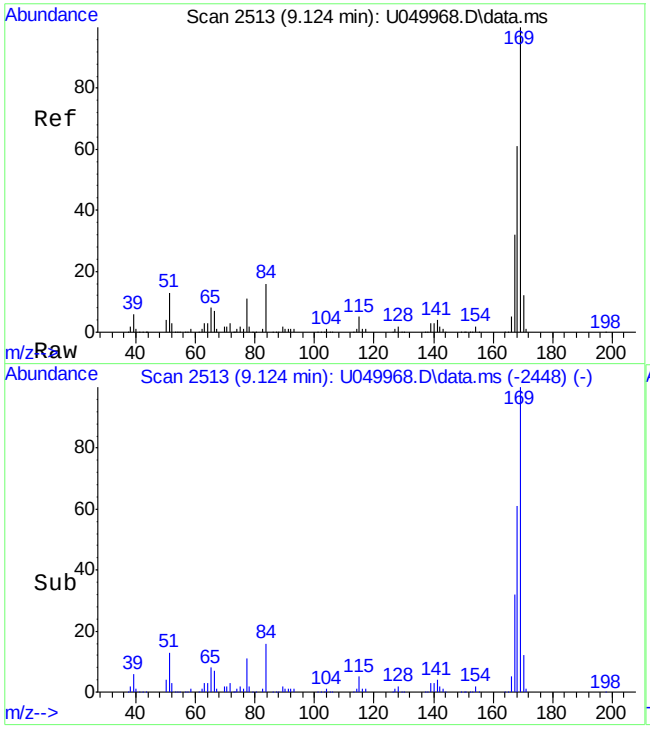
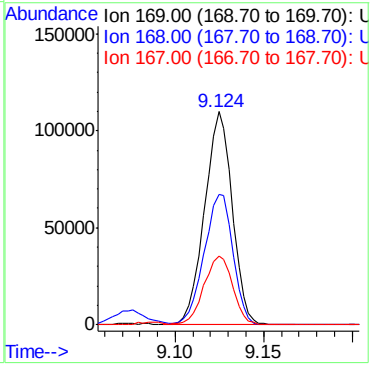
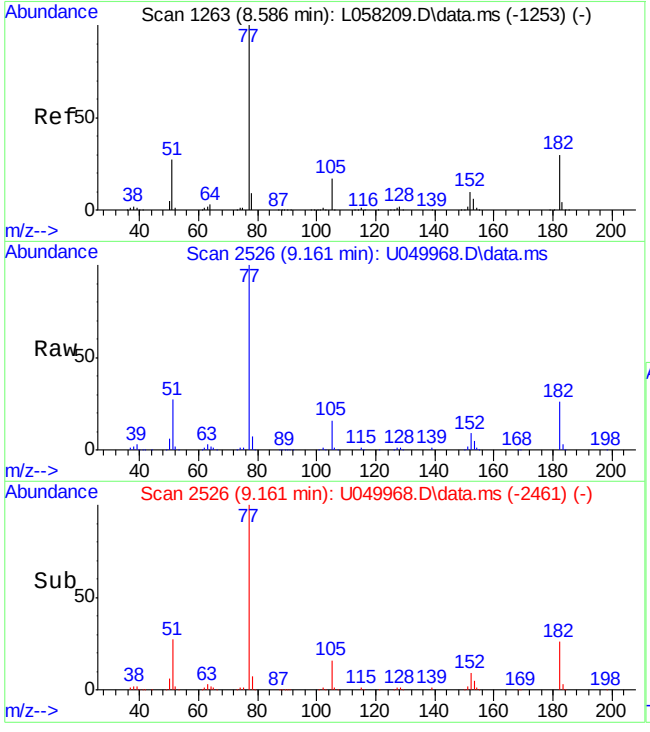


#71
Diphenylamine
Concen: 39.50 ppm
RT: 9.124 min Scan# 2513
Delta R.T. -0.015 min
Lab File: U049968.D
Acq: 1 Apr 2015 4:46 pm

Tgt Ion:169 Resp: 119019

Ion	Ratio	Lower	Upper
169	100		
168	60.6	42.2	82.2
167	31.7	12.7	52.7

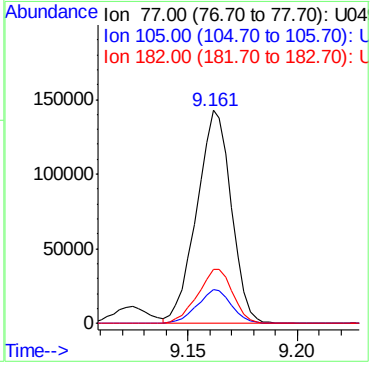




#72
1,2-Diphenylhydrazine
Concen: 45.30 ppm
RT: 9.161 min Scan# 2526
Delta R.T. -0.016 min
Lab File: U049968.D
Acq: 1 Apr 2015 4:46 pm

Tgt Ion: 77 Resp: 155966

Ion	Ratio	Lower	Upper
77	100		
105	15.7	0.0	45.8
182	25.7	0.0	56.9



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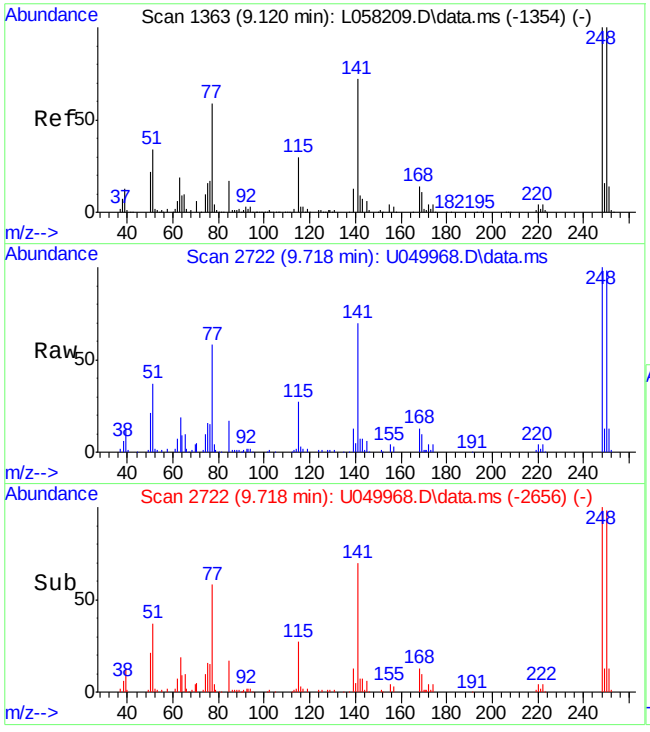
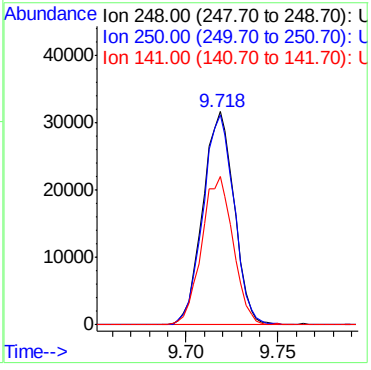
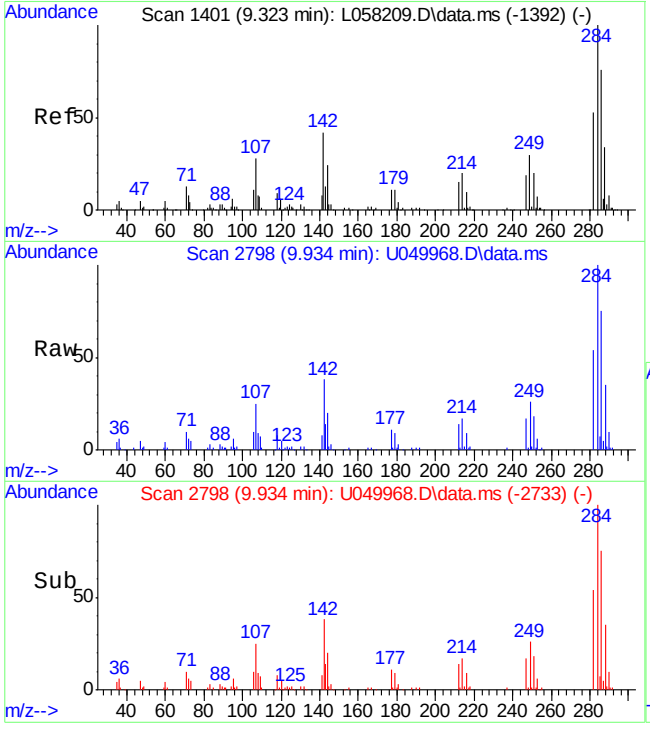


#74
4-Bromophenyl-phenylether
Concen: 39.94 ppm
RT: 9.718 min Scan# 2722
Delta R.T. -0.012 min
Lab File: U049968.D
Acq: 1 Apr 2015 4:46 pm

Tgt Ion:248 Resp: 37396

Ion	Ratio	Lower	Upper
248	100		
250	98.4	67.1	127.1
141	69.4	36.2	96.2

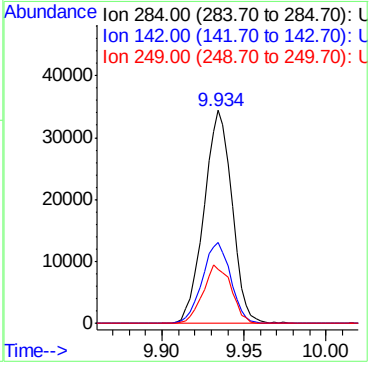


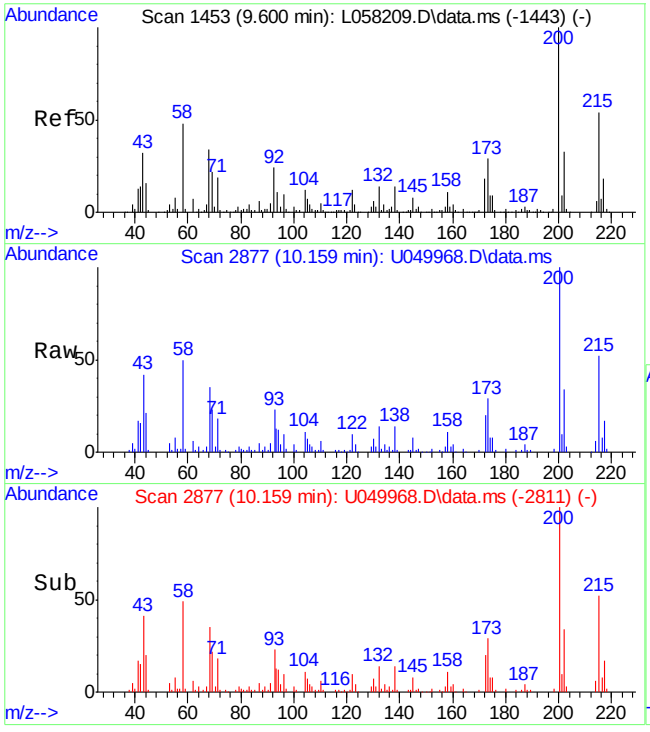


#75
Hexachlorobenzene
Concen: 38.97 ppm
RT: 9.934 min Scan# 2798
Delta R.T. -0.016 min
Lab File: U049968.D
Acq: 1 Apr 2015 4:46 pm

Tgt Ion:284 Resp: 40814

Ion	Ratio	Lower	Upper
284	100		
142	37.9	6.5	66.5
249	25.5	0.0	57.6

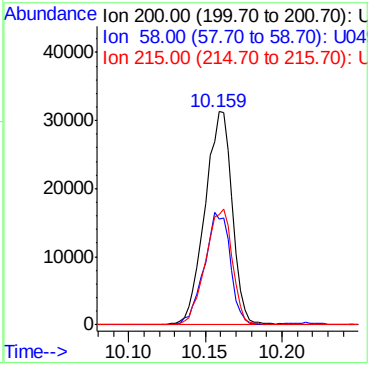


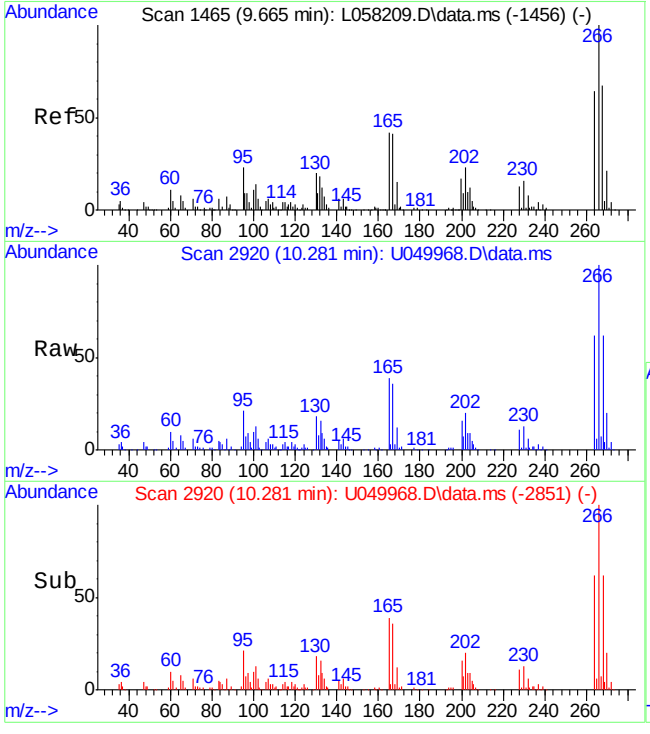


#77
Atrazine
Concen: 40.56 ppm
RT: 10.159 min Scan# 2877
Delta R.T. -0.013 min
Lab File: U049968.D
Acq: 1 Apr 2015 4:46 pm

Tgt Ion:200 Resp: 38863

Ion	Ratio	Lower	Upper
200	100		
58	49.5	16.6	76.6
215	51.8	21.9	81.9

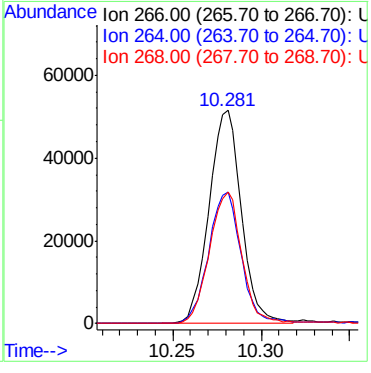


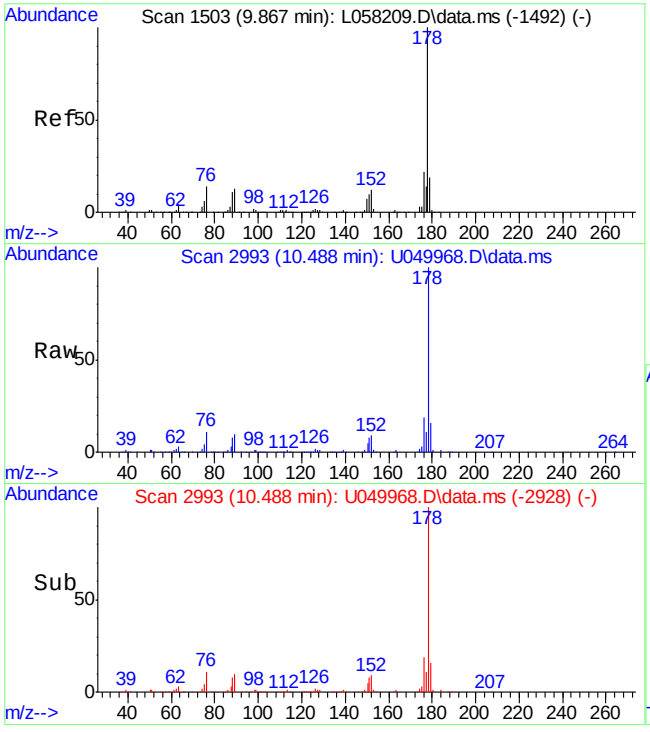


#78
Pentachlorophenol
Concen: 98.09 ppm
RT: 10.281 min Scan# 2920
Delta R.T. -0.004 min
Lab File: U049968.D
Acq: 1 Apr 2015 4:46 pm

Tgt Ion:266 Resp: 66076

Ion	Ratio	Lower	Upper
266	100		
264	61.9	28.6	88.6
268	61.8	28.9	88.9

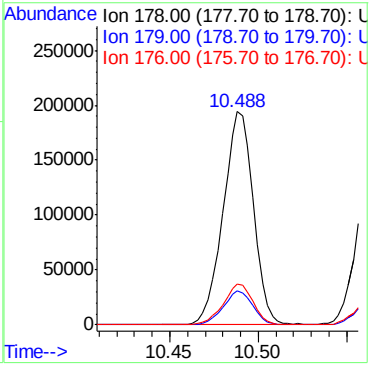


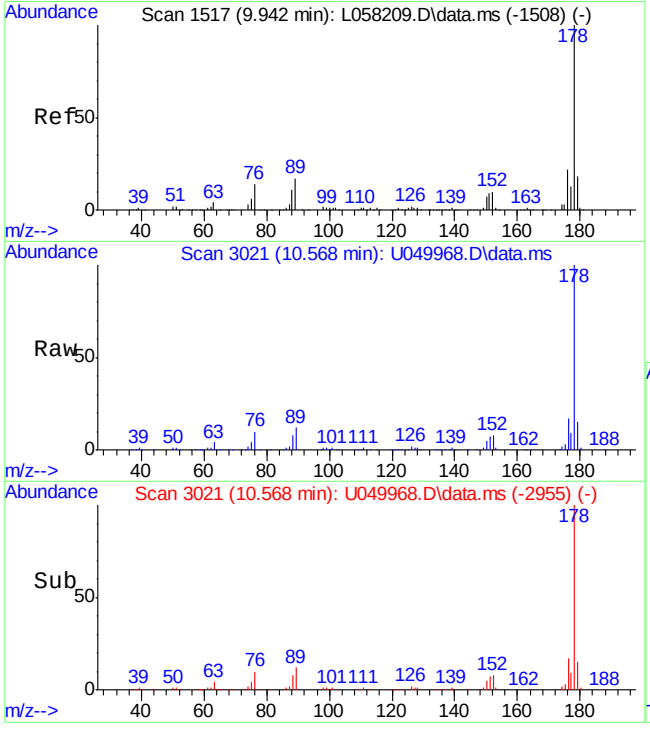


#79
Phenanthrene
Concen: 48.00 ppm
RT: 10.488 min Scan# 2993
Delta R.T. -0.014 min
Lab File: U049968.D
Acq: 1 Apr 2015 4:46 pm

Tgt Ion:178 Resp: 233623

Ion	Ratio	Lower	Upper
178	100		
179	15.9	0.0	46.0
176	19.0	0.0	48.9

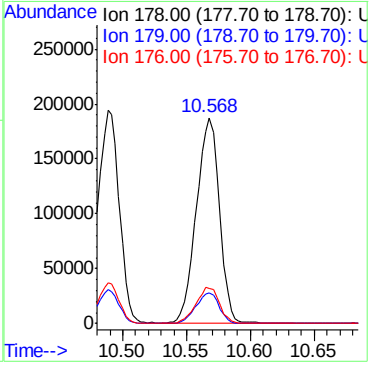




#80
Anthracene
Concen: 48.08 ppm
RT: 10.568 min Scan# 3021
Delta R.T. -0.013 min
Lab File: U049968.D
Acq: 1 Apr 2015 4:46 pm

Tgt Ion:178 Resp: 234689

Ion	Ratio	Lower	Upper
178	100		
179	14.9	0.0	45.4
176	16.9	0.0	47.9



7.3.2

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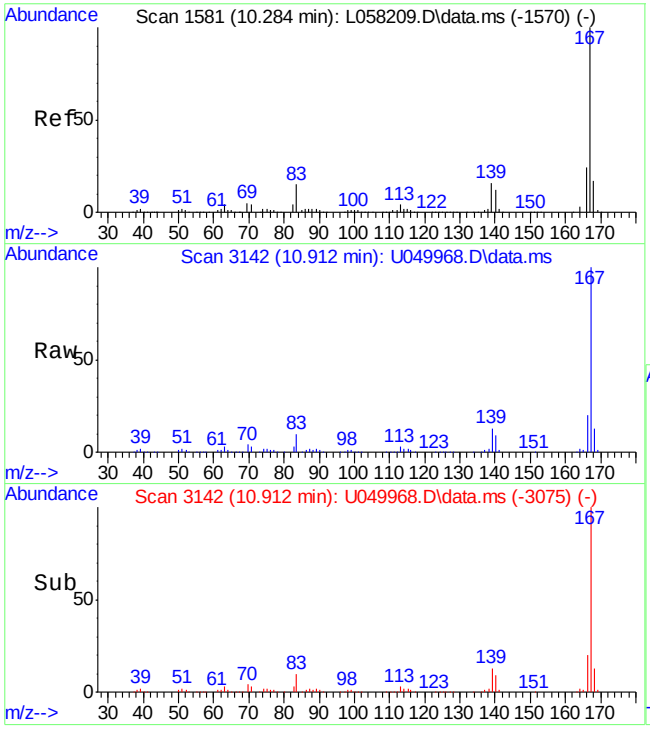
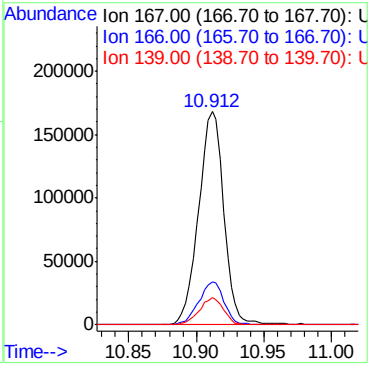
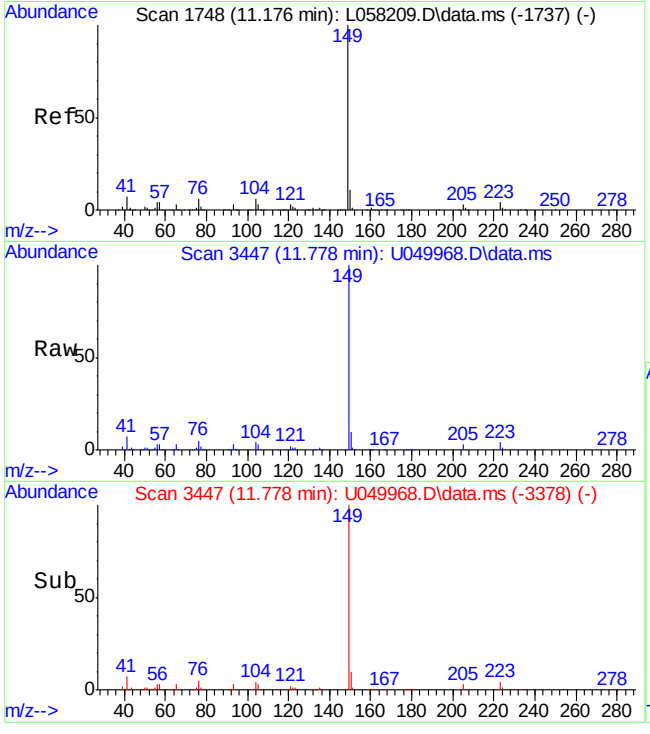


#81
Carbazole
Concen: 47.33 ppm
RT: 10.912 min Scan# 3142
Delta R.T. -0.009 min
Lab File: U049968.D
Acq: 1 Apr 2015 4:46 pm

Tgt Ion:167 Resp: 217531

Ion	Ratio	Lower	Upper
167	100		
166	20.2	0.0	49.9
139	12.8	0.0	42.5

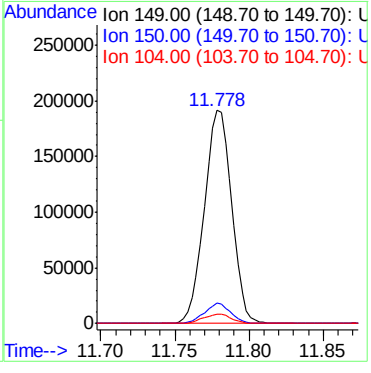


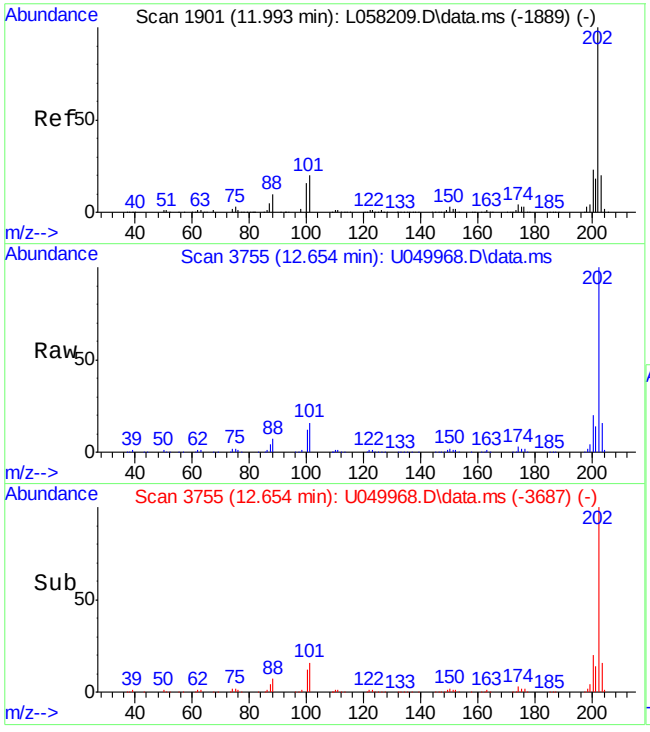


#82
Di-n-butylphthalate
Concen: 45.94 ppm
RT: 11.778 min Scan# 3447
Delta R.T. -0.005 min
Lab File: U049968.D
Acq: 1 Apr 2015 4:46 pm

Tgt Ion:149 Resp: 246316

Ion	Ratio	Lower	Upper
149	100		
150	9.7	0.0	39.6
104	4.1	0.0	34.3

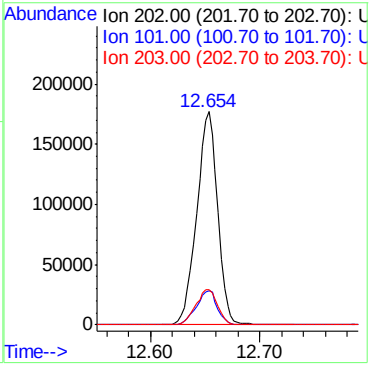


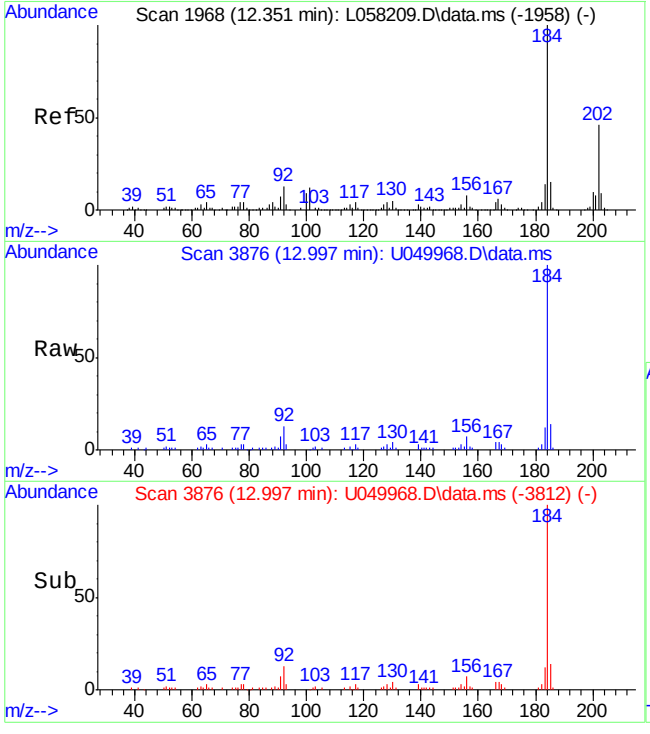


#83
Fluoranthene
Concen: 47.74 ppm
RT: 12.654 min Scan# 3755
Delta R.T. -0.007 min
Lab File: U049968.D
Acq: 1 Apr 2015 4:46 pm

Tgt Ion:202 Resp: 235003

Ion	Ratio	Lower	Upper
202	100		
101	16.0	0.0	47.2
203	16.5	0.0	47.2

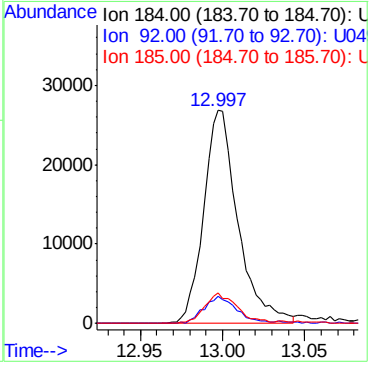




#85
Benzidine
Concen: 13.93 ppm
RT: 12.997 min Scan# 3876
Delta R.T. -0.017 min
Lab File: U049968.D
Acq: 1 Apr 2015 4:46 pm

Tgt Ion:184 Resp: 38960

Ion	Ratio	Lower	Upper
184	100		
92	12.7	0.0	40.9
185	14.2	0.0	43.7



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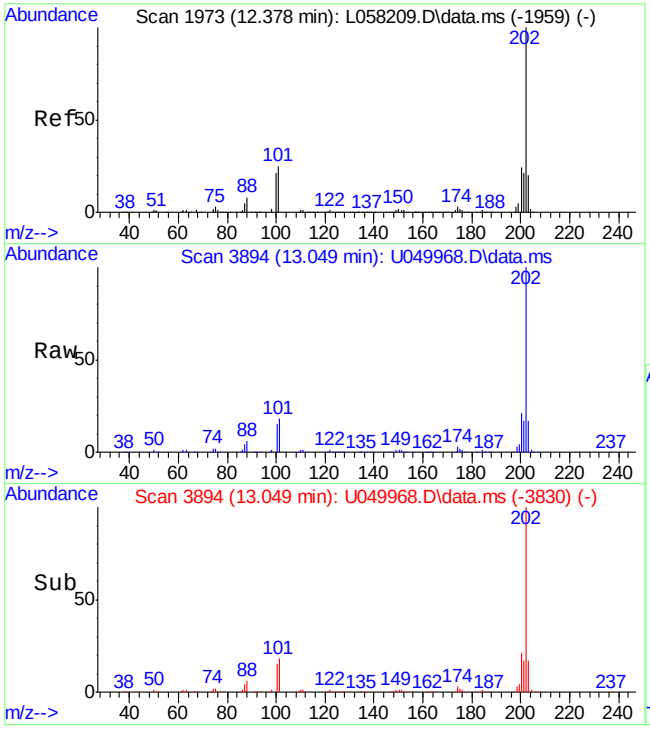
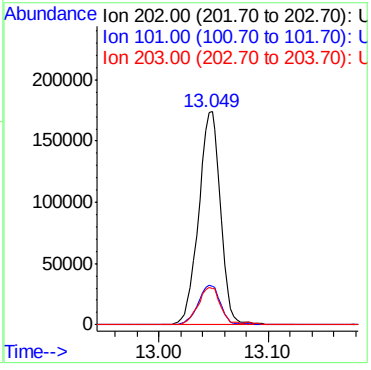
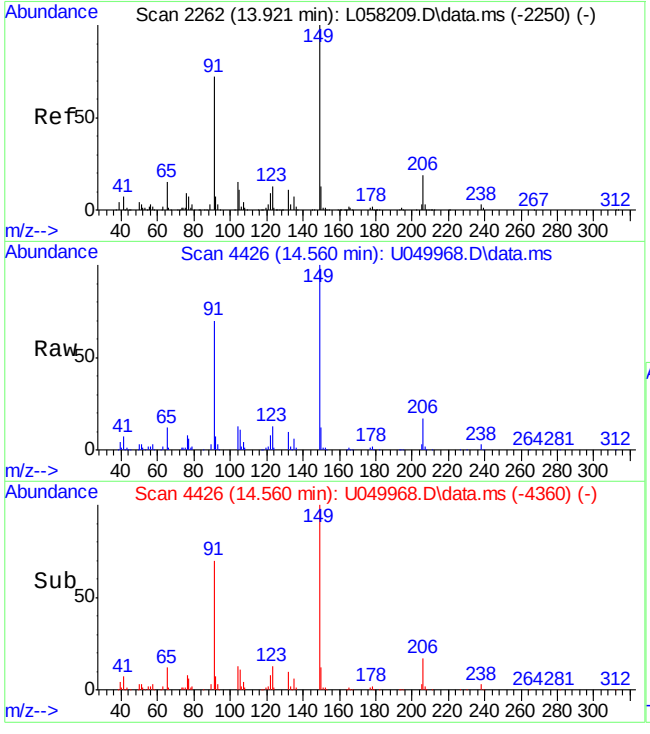


#86
Pyrene
Concen: 48.10 ppm
RT: 13.049 min Scan# 3894
Delta R.T. -0.019 min
Lab File: U049968.D
Acq: 1 Apr 2015 4:46 pm

Tgt Ion:202 Resp: 241596

Ion	Ratio	Lower	Upper
202	100		
101	18.2	0.0	48.6
203	17.2	0.0	47.5

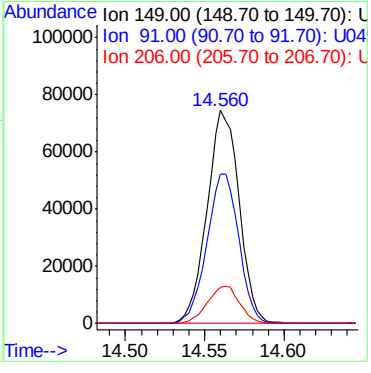




#88
Butylbenzylphthalate
Concen: 46.07 ppm
RT: 14.560 min Scan# 4426
Delta R.T. -0.013 min
Lab File: U049968.D
Acq: 1 Apr 2015 4:46 pm

Tgt Ion:149 Resp: 102642

Ion	Ratio	Lower	Upper
149	100		
91	70.3	38.2	98.2
206	17.0	0.0	48.1



7.3.2

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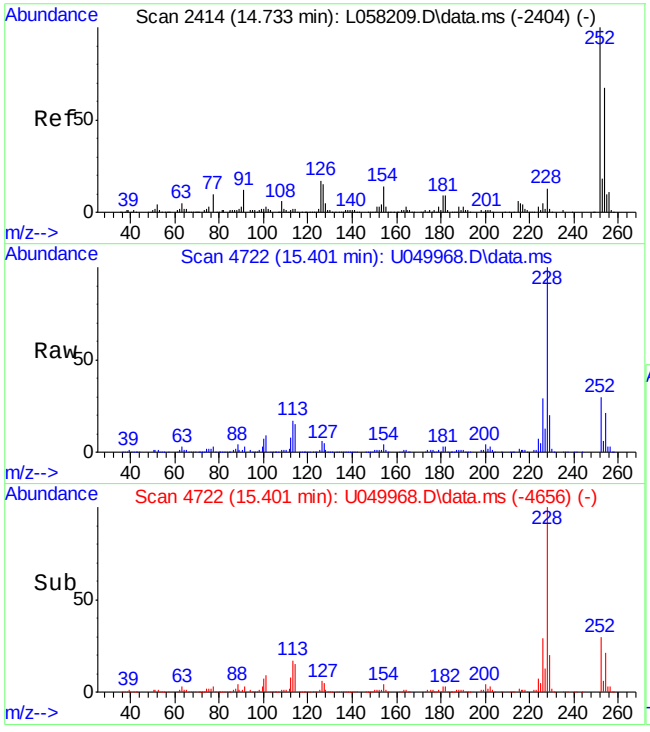
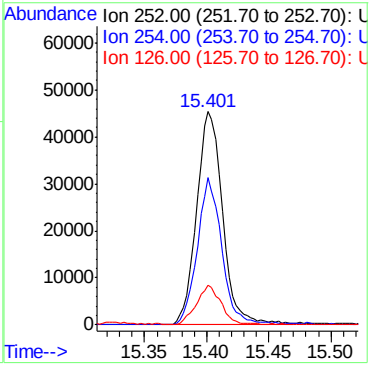
ACCUTEST LABORATORIES FA23189

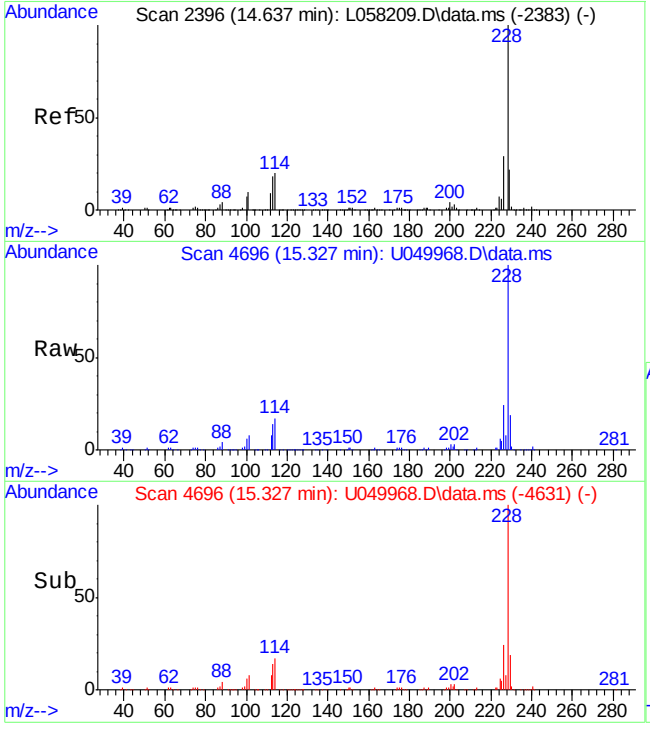


#89
3,3'-Dichlorobenzidine
Concen: 39.89 ppm
RT: 15.401 min Scan# 4722
Delta R.T. -0.013 min
Lab File: U049968.D
Acq: 1 Apr 2015 4:46 pm

Tgt Ion:252 Resp: 65965

Ion	Ratio	Lower	Upper
252	100		
254	69.0	34.6	94.6
126	18.5	0.0	46.5

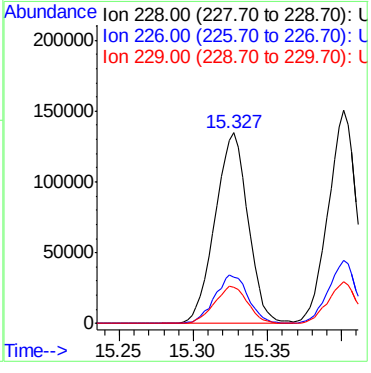


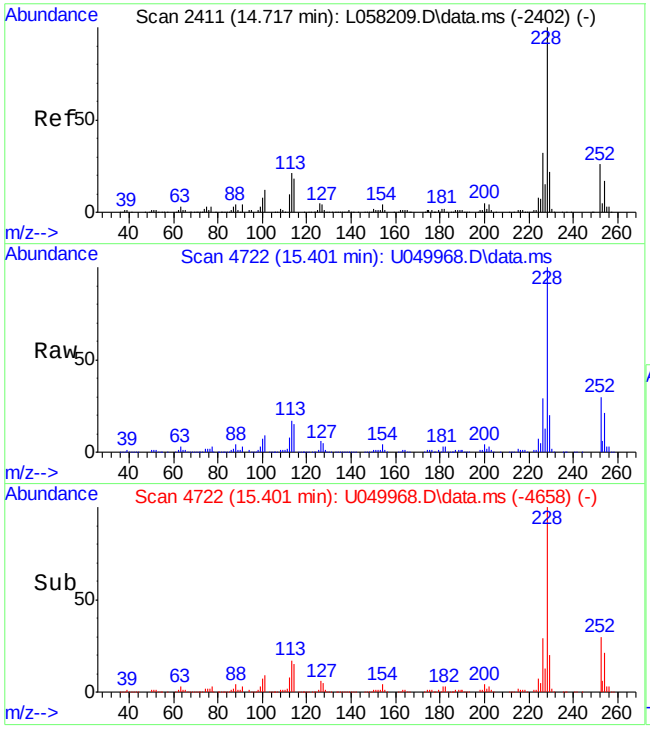


#90
Benzo[a]anthracene
Concen: 47.12 ppm
RT: 15.327 min Scan# 4696
Delta R.T. -0.015 min
Lab File: U049968.D
Acq: 1 Apr 2015 4:46 pm

Tgt Ion:228 Resp: 209089

Ion	Ratio	Lower	Upper
228	100		
226	24.4	0.0	56.4
229	18.9	0.0	50.0

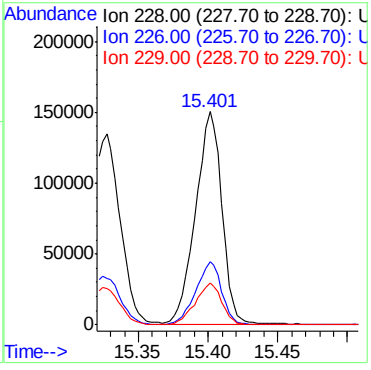


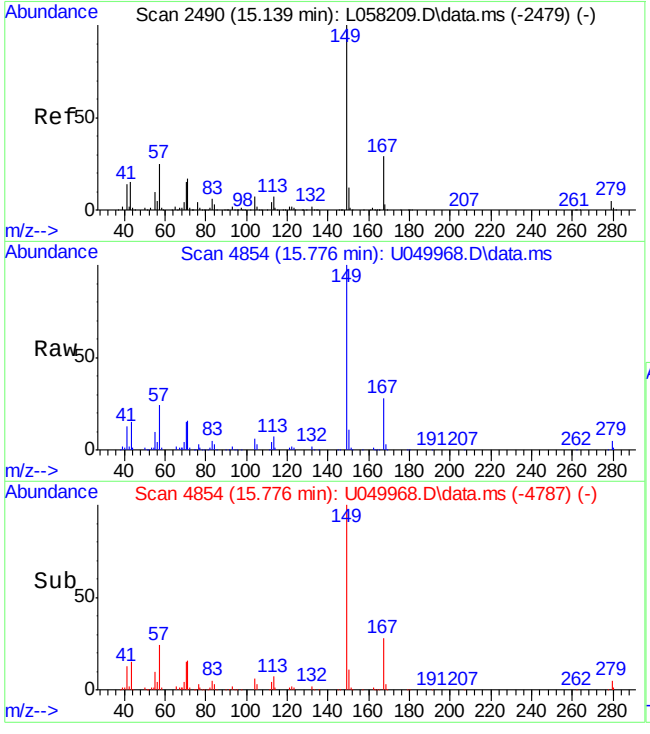


#91
Chrysene
Concen: 47.63 ppm
RT: 15.401 min Scan# 4722
Delta R.T. -0.019 min
Lab File: U049968.D
Acq: 1 Apr 2015 4:46 pm

Tgt Ion:228 Resp: 197721

Ion	Ratio	Lower	Upper
228	100		
226	29.4	0.0	58.8
229	19.7	0.0	49.3

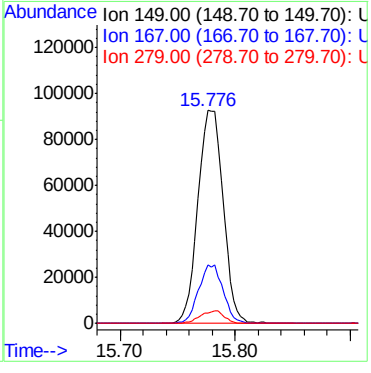




#92
bis(2-Ethylhexyl)phthalate
Concen: 46.60 ppm
RT: 15.776 min Scan# 4854
Delta R.T. -0.009 min
Lab File: U049968.D
Acq: 1 Apr 2015 4:46 pm

Tgt Ion:149 Resp: 141418

Ion	Ratio	Lower	Upper
149	100		
167	27.7	0.0	57.0
279	4.9	0.0	35.4



7.3.2

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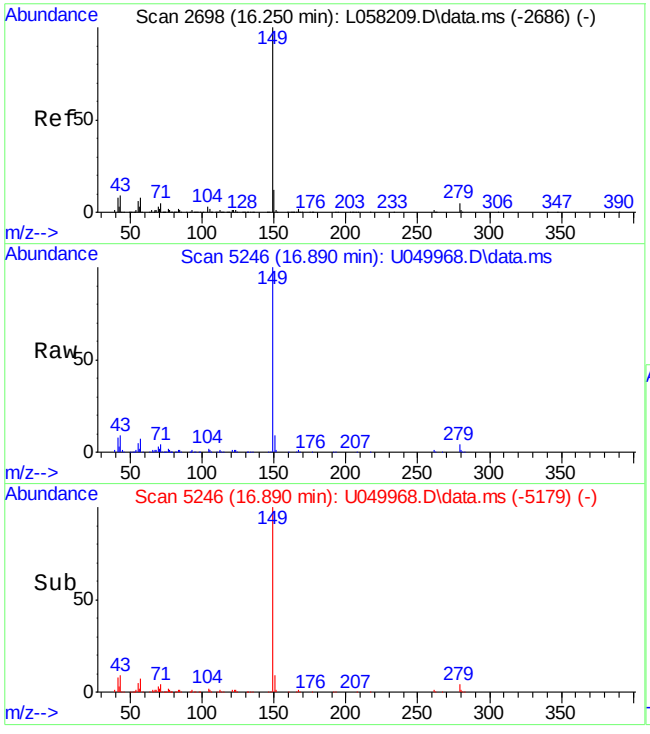
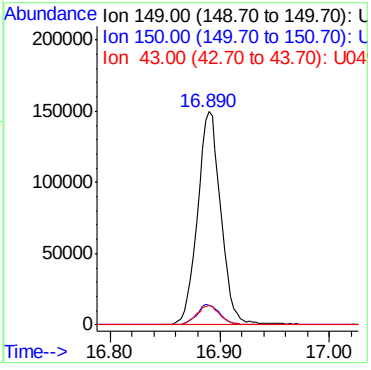
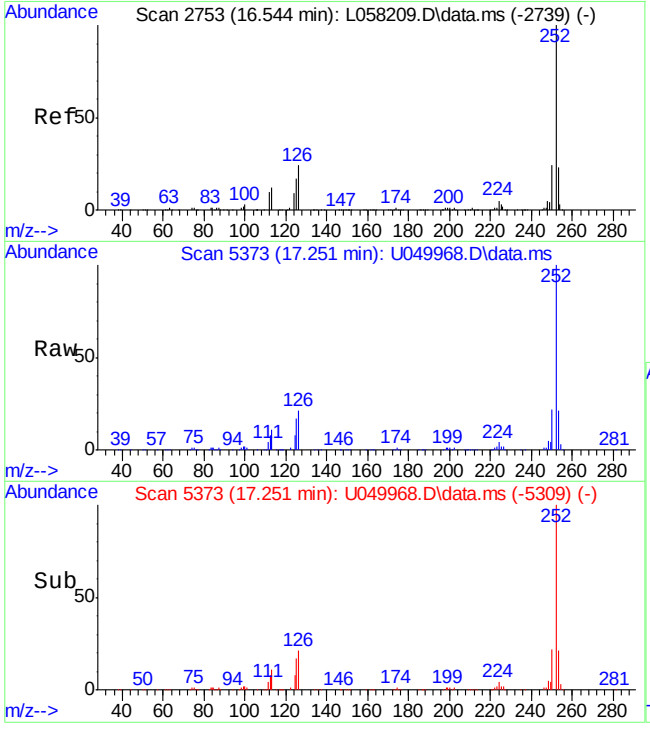


#94
Di-n-octylphthalate
Concen: 46.74 ppm
RT: 16.890 min Scan# 5246
Delta R.T. -0.010 min
Lab File: U049968.D
Acq: 1 Apr 2015 4:46 pm

Tgt Ion:149 Resp: 221396

Ion	Ratio	Lower	Upper
149	100		
150	9.0	0.0	39.5
43	8.9	0.0	38.2

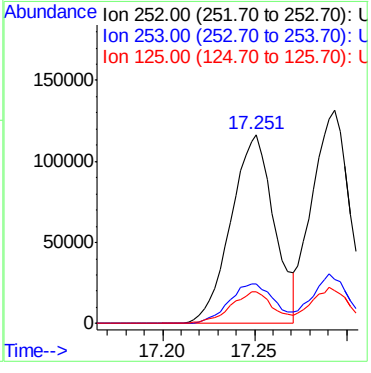


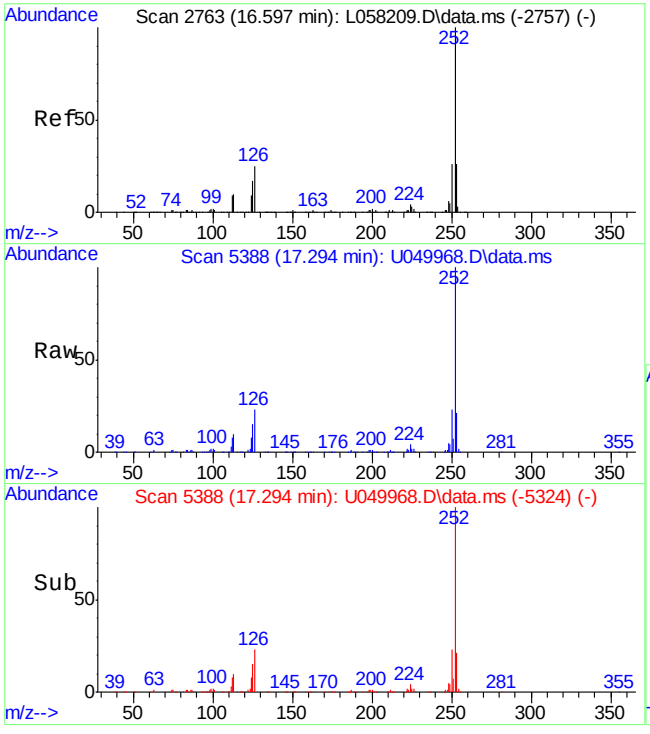


#95
Benzo[b]fluoranthene
Concen: 47.72 ppm
RT: 17.251 min Scan# 5373
Delta R.T. -0.018 min
Lab File: U049968.D
Acq: 1 Apr 2015 4:46 pm

Tgt Ion:252 Resp: 190783

Ion	Ratio	Lower	Upper
252	100		
253	20.6	0.0	51.6
125	16.9	0.0	46.4

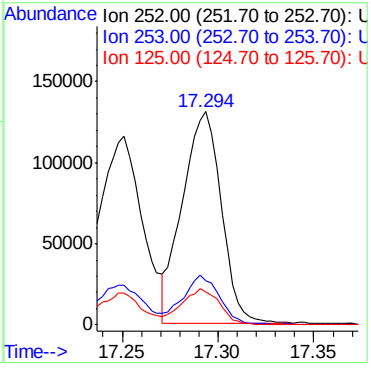


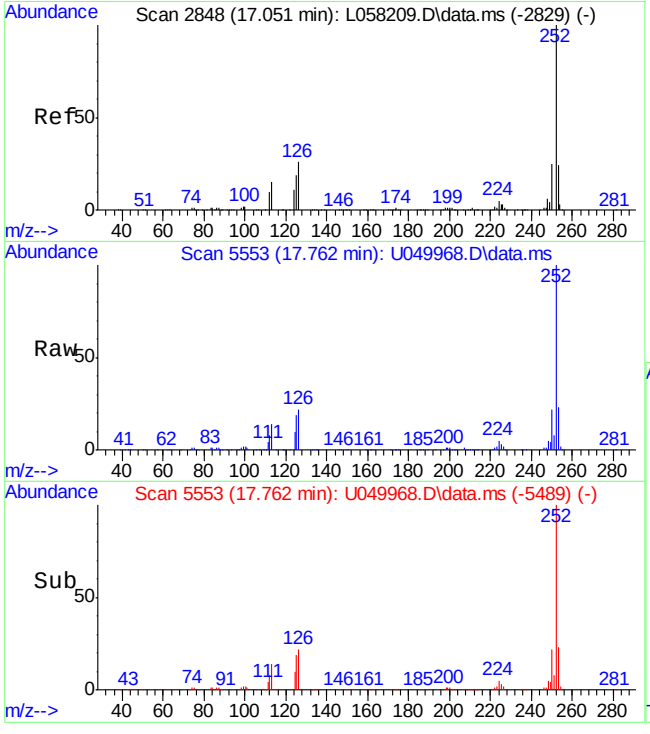


#96
Benzo[k]fluoranthene
Concen: 48.71 ppm
RT: 17.294 min Scan# 5388
Delta R.T. -0.018 min
Lab File: U049968.D
Acq: 1 Apr 2015 4:46 pm

Tgt Ion:252 Resp: 184884

Ion	Ratio	Lower	Upper
252	100		
253	20.3	0.0	52.4
125	15.2	0.0	46.2

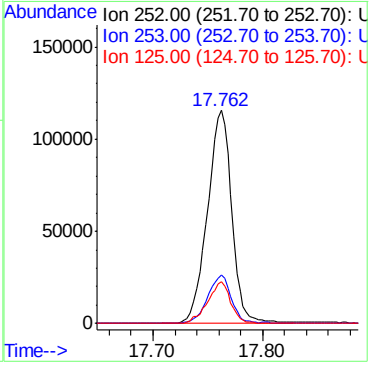




#97
Benzo[a]pyrene
Concen: 46.36 ppm
RT: 17.762 min Scan# 5553
Delta R.T. -0.018 min
Lab File: U049968.D
Acq: 1 Apr 2015 4:46 pm

Tgt Ion:252 Resp: 178674

Ion	Ratio	Lower	Upper
252	100		
253	22.6	0.0	52.1
125	19.4	0.0	47.7



7.3.2

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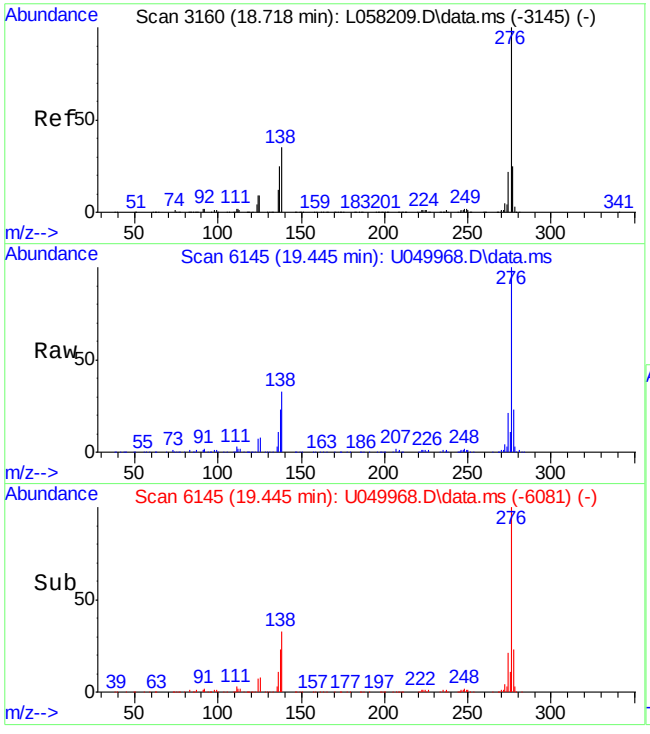
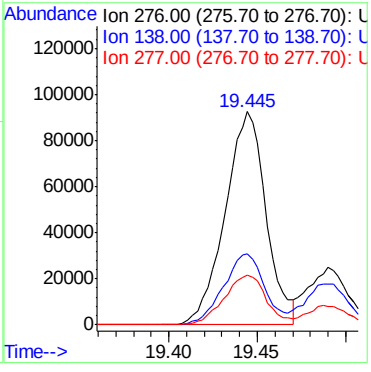
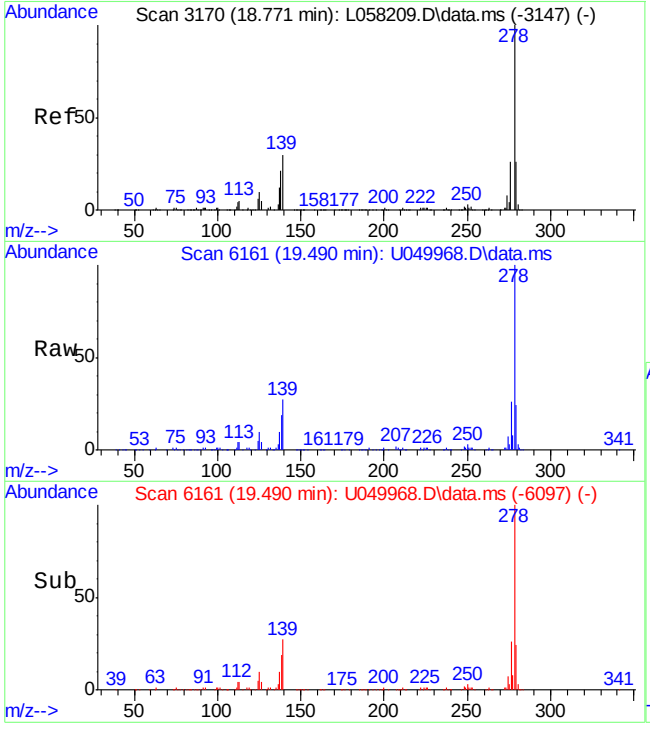


#98
Indeno[1,2,3-cd]pyrene
Concen: 41.66 ppm
RT: 19.445 min Scan# 6145
Delta R.T. -0.017 min
Lab File: U049968.D
Acq: 1 Apr 2015 4:46 pm

Tgt Ion:276 Resp: 149290

Ion	Ratio	Lower	Upper
276	100		
138	31.5	0.3	60.3
277	23.4	0.0	53.6

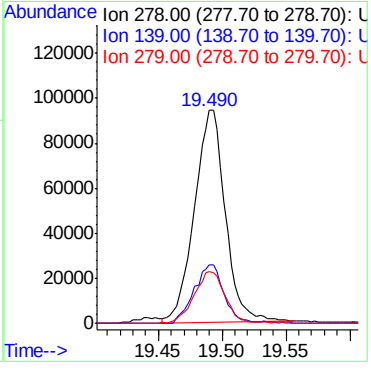




#99
Dibenz[a,h]anthracene
Concen: 44.59 ppm
RT: 19.490 min Scan# 6161
Delta R.T. -0.017 min
Lab File: U049968.D
Acq: 1 Apr 2015 4:46 pm

Tgt Ion:278 Resp: 157804

Ion	Ratio	Lower	Upper
278	100		
139	27.5	0.0	56.4
279	24.3	0.0	54.2



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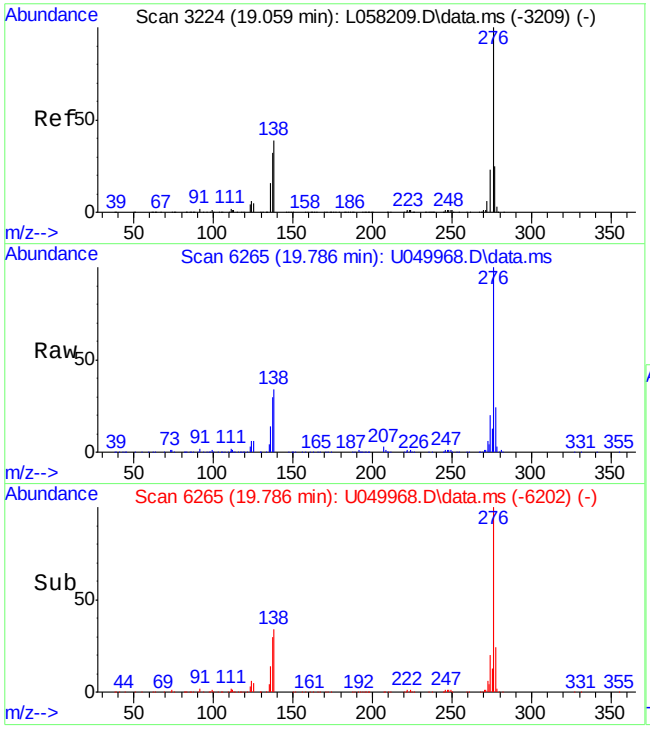
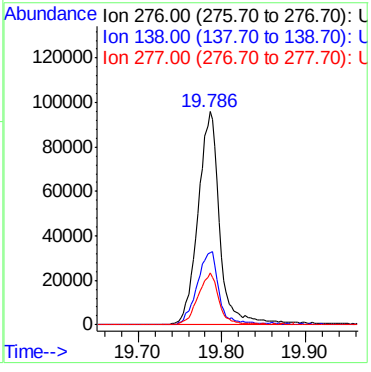


#100
Benzo[g,h,i]perylene
Concen: 46.04 ppm
RT: 19.786 min Scan# 6265
Delta R.T. -0.020 min
Lab File: U049968.D
Acq: 1 Apr 2015 4:46 pm

Tgt Ion:276 Resp: 171989

Ion	Ratio	Lower	Upper
276	100		
138	34.0	6.0	66.0
277	24.1	0.0	54.9



7.3.2

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Manual Integrations APPROVED (compounds with "m" flag)
Mike Eger
04/02/15 14:34

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\sx1828\
Data File : x039305.D
Acq On : 1 Apr 2015 10:44 am
Operator : marthav
Sample : op55531-bs
Misc : op55531,sx1828,30.0,,,1,1,soil
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Apr 02 09:06:03 2015
Quant Method : C:\msdchem\1\METHODS\8270d_03302.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Tue Mar 31 09:29:41 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.991	152	226810	40.00	ppm	0.00
22) Naphthalene-d8	6.088	136	899192	40.00	ppm	0.00
41) Acenaphthene-d10	7.631	164	468870	40.00	ppm	0.00
67) Phenanthrene-d10	8.921	188	699439	40.00	ppm	0.00
83) Chrysene-d12	11.543	240	588009	40.00	ppm	0.00
92) Perylene-d12	13.845	264	398465	40.00	ppm	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	3.965	112	613461	75.55	ppm	0.00
Spiked Amount 100.000	Range 40 - 102		Recovery = 75.55%			
9) Phenol-d5	4.758	99	772707	93.56	ppm	0.00
Spiked Amount 100.000	Range 41 - 100		Recovery = 93.56%			
23) Nitrobenzene-d5	5.488	82	356171	37.39	ppm	0.00
Spiked Amount 50.000	Range 40 - 105		Recovery = 74.78%			
45) 2-Fluorobiphenyl	7.045	172	647343	40.73	ppm	0.00
Spiked Amount 50.000	Range 43 - 107		Recovery = 81.46%			
72) 2,4,6-Tribromophenol	8.332	330	136884	87.12	ppm	0.00
Spiked Amount 100.000	Range 42 - 108		Recovery = 87.12%			
86) Terphenyl-d14	10.358	244	637077	47.42	ppm	0.01
Spiked Amount 50.000	Range 45 - 119		Recovery = 94.84%			
Target Compounds						Qvalue
2) 1,4-Dioxane	2.400	88	117877	33.12	ppm #	56
3) N-nitrosodimethylamine	2.738	42	189217	36.55	ppm	98
4) Pyridine	2.729	79	257707	27.25	ppm	99
6) Benzaldehyde	4.630	106	7397	0.84	ppm	97
7) Aniline	4.749	93	431767	35.97	ppm	63
8) bis(2-Chloroethyl)ether	4.803	93	305850	39.24	ppm	97
10) Phenol	4.766	94	457494	42.33	ppm	98
11) 2-Chlorophenol	4.849	128	356312	40.96	ppm	97
12) 1,3-Dichlorobenzene	4.960	146	332221	35.95	ppm	97
13) 1,4-Dichlorobenzene	5.005	146	336657	36.42	ppm	98
14) 1,2-Dichlorobenzene	5.164	146	322462	36.60	ppm	96
15) Benzyl alcohol	5.139	108	225439	40.39	ppm	96
16) 2-Methylphenol	5.258	108	307969	40.66	ppm	99
17) bis(2-chloroisopropyl)...	5.267	45	541881	36.34	ppm	93
18) Acetophenone	5.357	105	502058	43.84	ppm	96
19) N-Nitroso-di-n-propyla...	5.386	70	187649	41.87	ppm	96
20) 3&4-Methylphenol	5.386	108	667693	84.00	ppm	96
21) Hexachloroethane	5.426	117	138061	36.47	ppm	97
24) Nitrobenzene	5.502	77	346678	38.44	ppm	99
25) Isophorone	5.704	82	646485	39.19	ppm	96
26) 2-Nitrophenol	5.778	139	192573	41.17	ppm	94
27) 2,4-Dimethylphenol	5.829	107	374520	43.88	ppm	98
28) bis(2-Chloroethoxy)met...	5.903	93	365686	39.04	ppm	98
29) Benzoic Acid	5.983	105	549641	84.67	ppm	98
30) 2,4-Dichlorophenol	5.985	162	278876	40.47	ppm	99
31) 1,2,4-Trichlorobenzene	6.054	180	258246	36.77	ppm	99
32) Naphthalene	6.105	128	918130	39.61	ppm	90

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\sx1828\
Data File : x039305.D
Acq On : 1 Apr 2015 10:44 am
Operator : marthav
Sample : op55531-bs
Misc : op55531,sx1828,30.0,,,1,1,soil
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Apr 02 09:06:03 2015
Quant Method : C:\msdchem\1\METHODS\8270d_03302.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Tue Mar 31 09:29:41 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 4-Chloroaniline	6.176	127	374620	35.00	ppm	95
34) 2,6-Dichlorophenol	5.985	162	278876	40.47	ppm	99
35) Hexachlorobutadiene	6.267	225	157170	40.04	ppm	95
36) Caprolactam	6.477	113	110333m	39.47	ppm	
37) 4-Chloro-3-methylphenol	6.611	107	315785	42.28	ppm	98
38) 2-Methylnaphthalene	6.704	142	635597	38.63	ppm	97
39) 1-Methylnaphthalene	6.798	142	716533	49.04	ppm	98
40) 1,2,4,5-Tetrachloroben...	6.886	216	253834	36.99	ppm	96
42) Hexachlorocyclopentadiene	6.906	237	138362	32.93	ppm	98
43) 2,4,6-Trichlorophenol	6.980	196	194915	43.93	ppm	98
44) 2,4,5-Trichlorophenol	7.017	196	205318	43.42	ppm	97
46) 1,1'-Biphenyl	7.122	154	720747	40.35	ppm	89
47) 2-Chloronaphthalene	7.128	162	560866	40.63	ppm	96
48) 2-Nitroaniline	7.250	65	220992	42.74	ppm	98
50) Dimethylphthalate	7.440	163	670691	43.16	ppm	95
51) m-Dinitrobenzene	7.449	168	101953	38.81	ppm	86
52) 2,6-Dinitrotoluene	7.494	165	156125	42.84	ppm	79
54) Acenaphthylene	7.497	152	953051	43.85	ppm	88
55) 3-Nitroaniline	7.250	138	227161	43.53	ppm	99
56) Acenaphthene	7.659	153	616832	44.10	ppm	96
57) 2,4-Dinitrophenol	7.704	184	204066	87.45	ppm	99
58) 4-Nitrophenol	7.781	109	214562	85.35	ppm	90
59) Dibenzofuran	7.798	168	785933	40.26	ppm	88
60) 2,4-Dinitrotoluene	7.835	165	209584	42.23	ppm	85
62) 2,3,4,6-Tetrachlorophenol	7.949	232	150192	41.18	ppm	94
63) Diethylphthalate	8.063	149	693611	43.22	ppm	93
64) Fluorene	8.102	166	712024	44.54	ppm	98
65) 4-Chlorophenyl-phenyle...	8.102	204	302214	41.82	ppm	92
66) 4-Nitroaniline	8.159	138	161198	41.47	ppm	97
68) 4,6-Dinitro-2-methylph...	8.196	198	251482	87.15	ppm	97
69) Diphenylamine	8.216	169	499911	38.51	ppm	94
70) n-Nitrosodiphenylamine	8.216	169	499911	46.21	ppm	94
71) 1,2-Diphenylhydrazine	8.242	77	706823	44.64	ppm	87
73) 4-Bromophenyl-phenylether	8.528	248	140962	38.58	ppm	93
74) Hexachlorobenzene	8.656	284	126833	36.15	ppm	86
76) Atrazine	8.719	200	171377	39.47	ppm	90
77) Pentachlorophenol	8.818	266	253483	111.91	ppm	96
78) Phenanthrene	8.941	178	941307	45.81	ppm	88
79) Anthracene	8.980	178	944612	46.08	ppm	89
80) Carbazole	9.128	167	870308	44.90	ppm	91
81) Di-n-butylphthalate	9.492	149	1102714	45.72	ppm	93
82) Fluoranthene	9.992	202	970900	45.70	ppm	91
84) Benzidine	10.114	184	44858	5.20	ppm	99
85) Pyrene	10.194	202	981260	45.14	ppm	89
87) Butylbenzylphthalate	10.912	149	467764	45.05	ppm	96
88) 3,3'-Dichlorobenzidine	11.521	252	190499	40.59	ppm	97
89) Benzo[a]anthracene	11.518	228	793427	46.77	ppm	98
90) Chrysene	11.577	228	752404	46.74	ppm	94
91) bis(2-Ethylhexyl)phtha...	11.702	149	651799	47.41	ppm	96
93) Di-n-octylphthalate	12.680	149	952754	46.69	ppm	98

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\sx1828\
Data File : x039305.D
Acq On : 1 Apr 2015 10:44 am
Operator : marthav
Sample : op55531-bs
Misc : op55531,sx1828,30.0,,,1,1,soil
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Apr 02 09:06:03 2015
Quant Method : C:\msdchem\1\METHODS\8270d_03302.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Tue Mar 31 09:29:41 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
94) Benzo[b]fluoranthene	13.180	252	594866	46.59 ppm	99
95) Benzo[k]fluoranthene	13.225	252	601240	45.90 ppm	97
96) Benzo[a]pyrene	13.737	252	511600	44.65 ppm	99
97) Indeno[1,2,3-cd]pyrene	15.888	276	344892	44.37 ppm	97
98) Dibenz[a,h]anthracene	15.956	278	345561	47.45 ppm	96
99) Benzo[g,h,i]perylene	16.360	276	416315	48.91 ppm	97

(#) = qualifier out of range (m) = manual integration (+) = signals summed

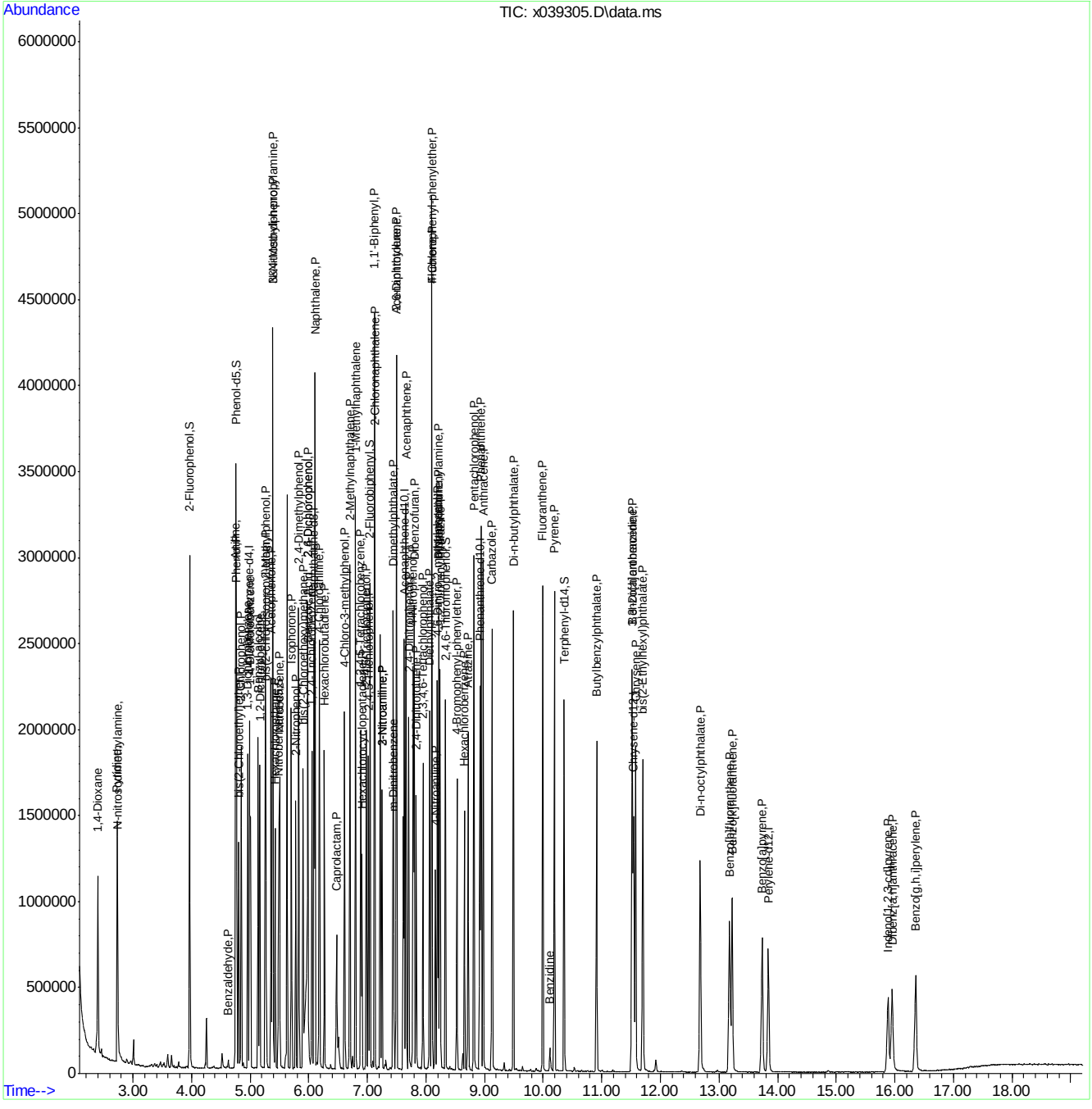
7.3.3

7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\sx1828\
Data File : x039305.D
Acq On : 1 Apr 2015 10:44 am
Operator : marthav
Sample : op55531-bs
Misc : op55531,sx1828,30.0,,,1,1,soil
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Apr 02 09:06:03 2015
Quant Method : C:\msdchem\1\METHODS\8270d_03302.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Tue Mar 31 09:29:41 2015
Response via : Initial Calibration



ACCUTEST LABORATORIES FA23189

Manual Integration Approval Summary

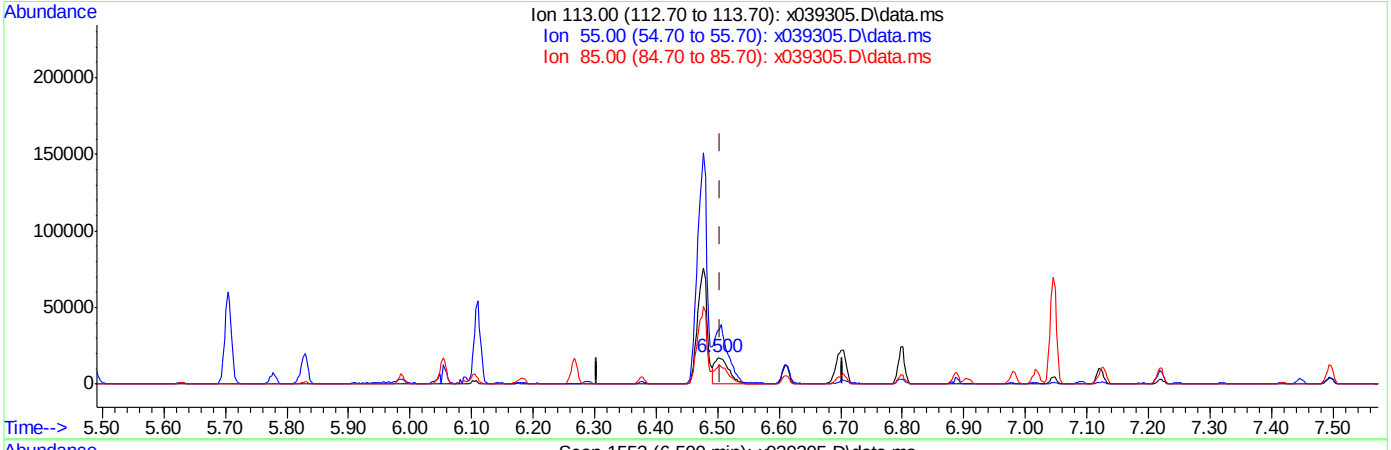
Sample Number:	OP55531-BS	**Method:**	SW846 8270D
Lab FileID:	X039305.D	**Analyst approved:**	04/02/15 09:08 Martha Valls
Injection Time:	04/01/15 10:44	**Supervisor approved:**	04/02/15 14:34 Mike Eger

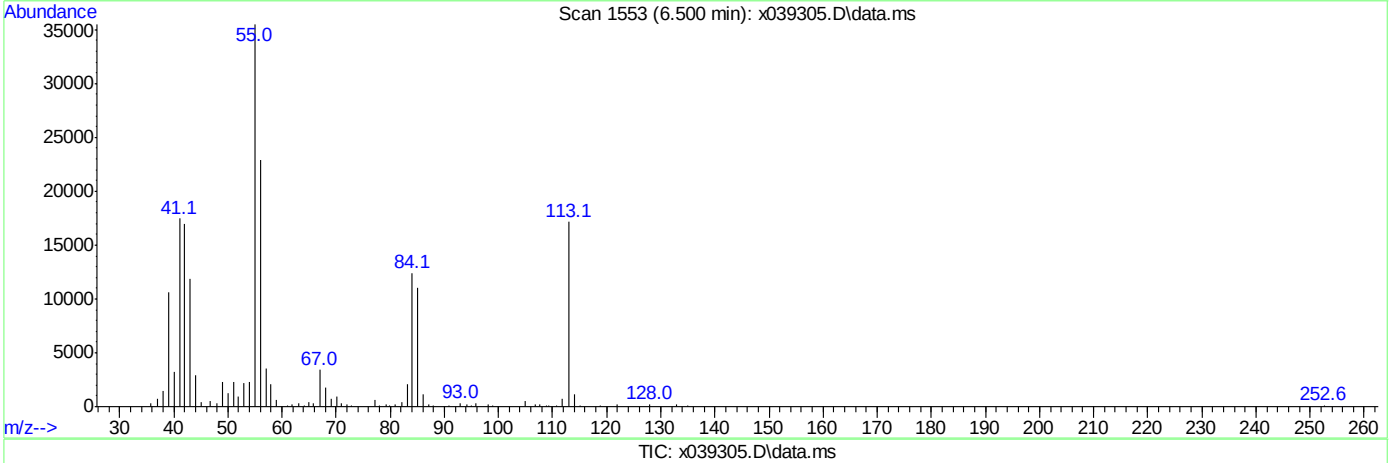
Parameter	CAS	Sig#	R.T. (min.)	Reason
Caprolactam	105-60-2		6.48	Split peak

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\sx1828\
Data File : x039305.D
Acq On : 1 Apr 2015 10:44 am
Operator : marthav
Sample : op55531-bs
Misc : op55531,sx1828,30.0,,,1,1,soil
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Apr 02 07:55:56 2015
Quant Method : C:\msdchem\1\METHODS\8270d_03302.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Tue Mar 31 09:29:41 2015
Response via : Initial Calibration





TIC: x039305.D\data.ms

(36) Caprolactam (P)

6.500min (-0.005) 10.15ppm

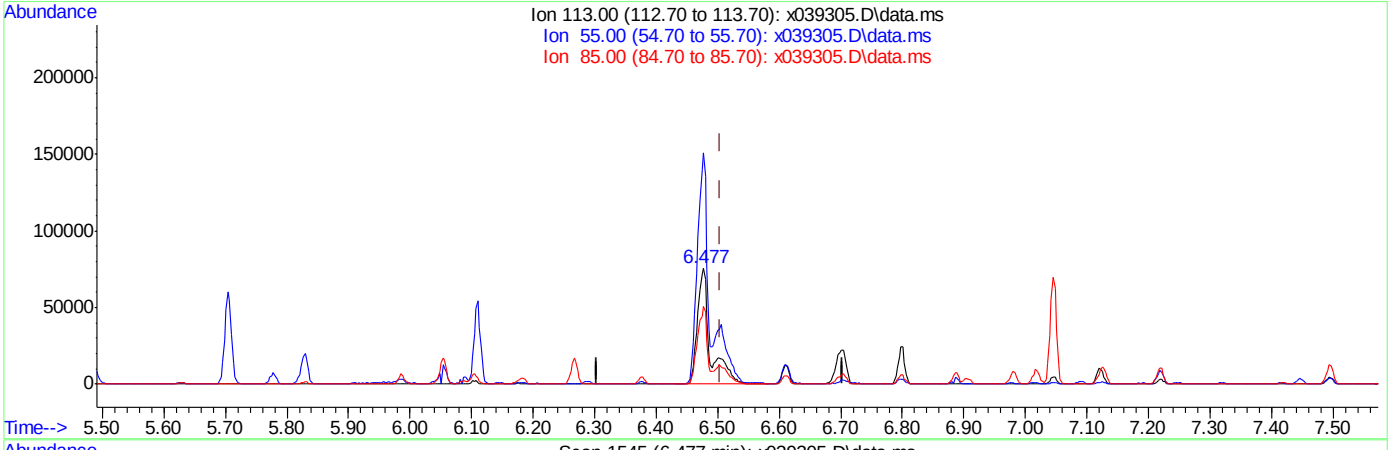
response 28375

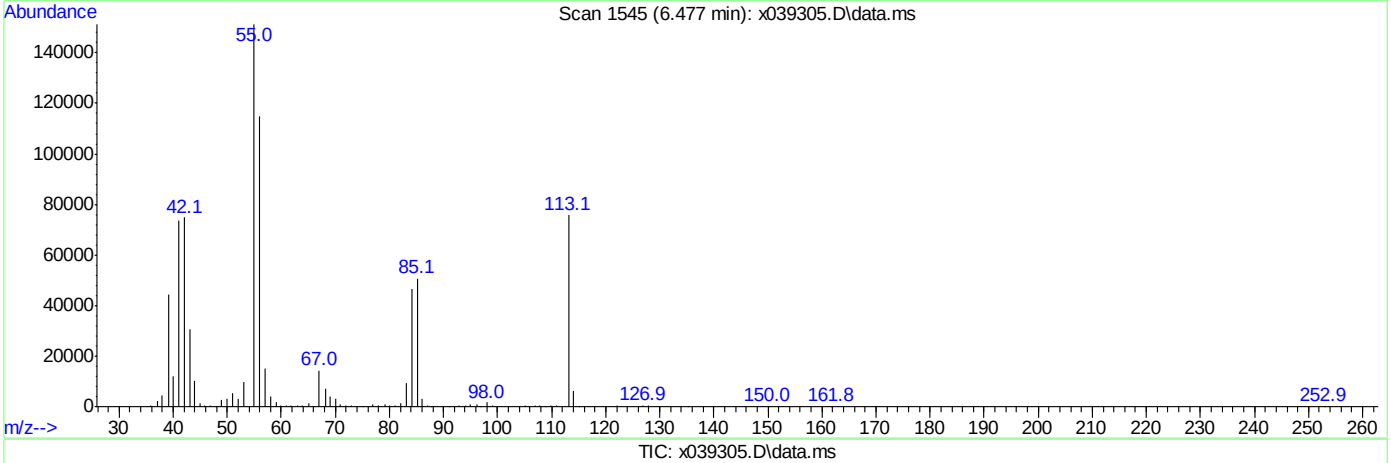
Ion	Exp%	Act%
113.00	100	100
55.00	179.50	195.40
85.00	64.50	58.31
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\sx1828\
Data File : x039305.D
Acq On : 1 Apr 2015 10:44 am
Operator : marthav
Sample : op55531-bs
Misc : op55531,sx1828,30.0,,,1,1,soil
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Apr 02 07:55:56 2015
Quant Method : C:\msdchem\1\METHODS\8270d_03302.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Tue Mar 31 09:29:41 2015
Response via : Initial Calibration





TIC: x039305.D\data.ms

(36) Caprolactam (P)

6.477min (-0.028) 39.47ppm m

response 110333

Ion	Exp%	Act%
113.00	100	100
55.00	179.50	199.94
85.00	64.50	67.01
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\st810\
Data File : T017709.D
Acq On : 6 Apr 2015 11:33 am
Operator : mayrag
Sample : op55540-bs
Misc : op55540,st810,250,,,1,1,water
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Apr 06 15:45:49 2015
Quant Method : C:\msdchem\1\METHODS\SIM_LV.M
Quant Title : PAH's by 8270 SIM
QLast Update : Mon Apr 06 14:20:40 2015
Response via : Initial Calibration

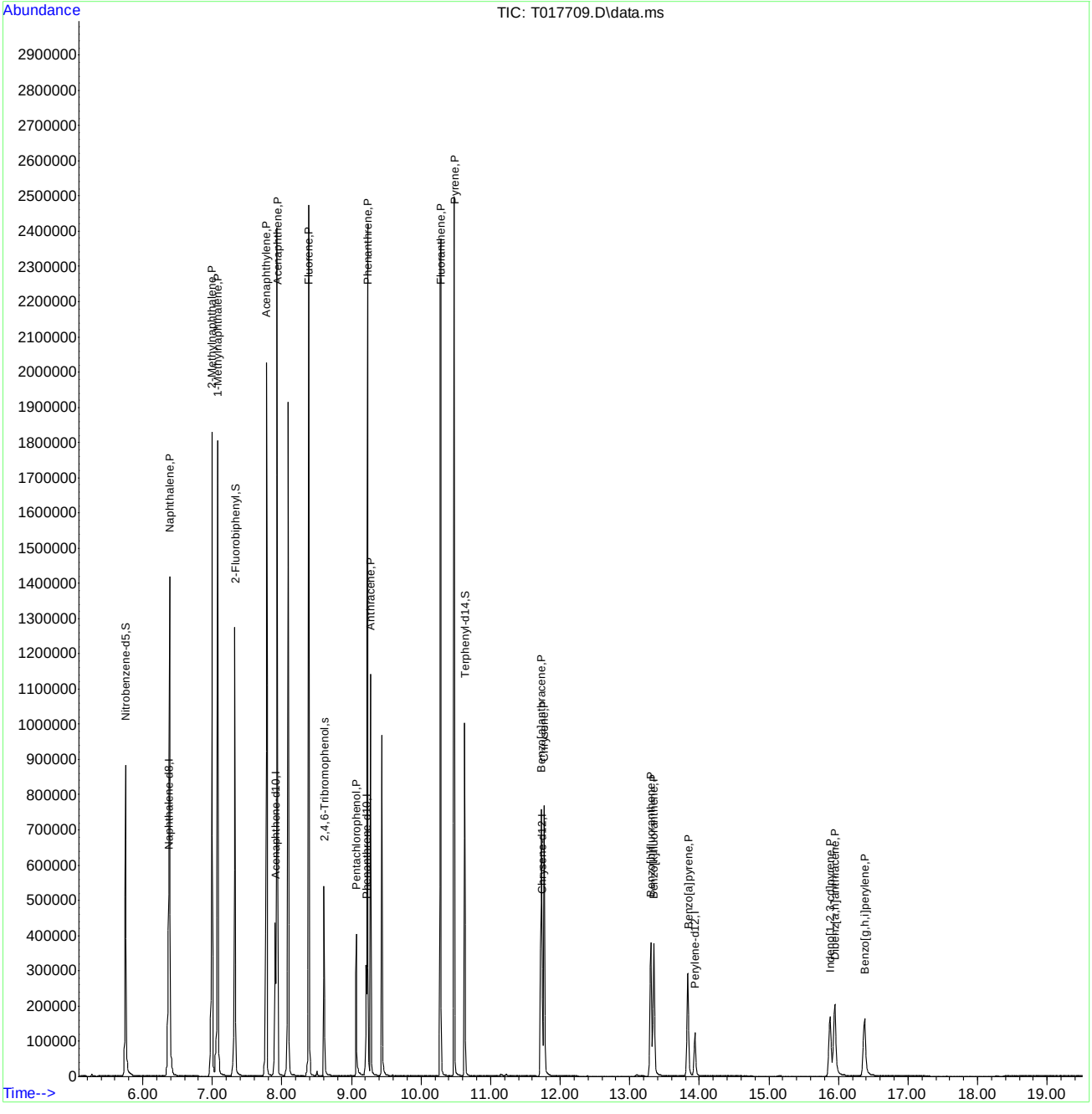
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) Naphthalene-d8	6.369	136	271093	500.00 ppb	0.00
6) Acenaphthene-d10	7.904	164	138467	500.00 ppb	0.00
11) Phenanthrene-d10	9.211	188	232303	500.00 ppb	0.00
17) Chrysene-d12	11.742	240	196083	500.00 ppb	0.00
22) Perylene-d12	13.934	264	142178	500.00 ppb	0.00
System Monitoring Compounds					
2) Nitrobenzene-d5	5.753	82	508947	2032.51 ppb	0.00
Spiked Amount 2000.000	Range 38 - 126		Recovery = 101.63%		
7) 2-Fluorobiphenyl	7.325	172	871490	1931.17 ppb	0.00
Spiked Amount 2000.000	Range 41 - 109		Recovery = 96.56%		
12) 2,4,6-Tribromophenol	8.606	330	187404	3347.11 ppb	0.00
Spiked Amount 4000.000	Range 33 - 118		Recovery = 83.68%		
19) Terphenyl-d14	10.627	244	675223	1788.88 ppb	0.00
Spiked Amount 2000.000	Range 46 - 135		Recovery = 89.44%		
Target Compounds					Qvalue
3) Naphthalene	6.387	128	1267391	1889.21 ppb	99
4) 2-Methylnaphthalene	6.996	142	791572	1931.65 ppb	98
5) 1-Methylnaphthalene	7.080	142	799827	2066.69 ppb	98
8) Acenaphthylene	7.781	152	1331509	2081.65 ppb	99
9) Acenaphthene	7.933	153	809767	2072.09 ppb	94
10) Fluorene	8.391	166	956780	2296.53 ppb	99
13) Pentachlorophenol	9.069	266	135877	7761.61 ppb	99
14) Phenanthrene	9.231	178	1342235	2194.73 ppb	99
15) Anthracene	9.275	178	646086	993.97 ppb	99
16) Fluoranthene	10.282	202	1355236	2259.93 ppb	98
18) Pyrene	10.479	202	1378122	1923.93 ppb	97
20) Benzo[a]anthracene	11.727	228	556127	1066.07 ppb	99
21) Chrysene	11.772	228	562070	1109.12 ppb	99
23) Benzo[b]fluoranthene	13.300	252	436250	1072.80 ppb	99
24) Benzo[k]fluoranthene	13.345	252	443850	1018.29 ppb	99
25) Benzo[a]pyrene	13.836	252	357513	949.20 ppb	99
26) Indeno[1,2,3-cd]pyrene	15.878	276	235701	833.58 ppb	96
27) Dibenz[a,h]anthracene	15.948	278	237974	808.72 ppb	96
28) Benzo[g,h,i]perylene	16.377	276	264627	831.46 ppb	96

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\st810\
Data File : T017709.D
Acq On : 6 Apr 2015 11:33 am
Operator : mayrag
Sample : op55540-bs
Misc : op55540,st810,250,,,1,1,water
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Apr 06 15:45:49 2015
Quant Method : C:\msdchem\1\METHODS\SIM_LV.M
Quant Title : PAH's by 8270 SIM
QLast Update : Mon Apr 06 14:20:40 2015
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\st811\
Data File : T017725.D
Acq On : 7 Apr 2015 11:09 am
Operator : mayrag
Sample : op55540-bs
Misc : op55540,st811,250,,,1,1,water
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Apr 08 09:09:02 2015
Quant Method : C:\msdchem\1\METHODS\SIM_LV.M
Quant Title : PAH's by 8270 SIM
QLast Update : Wed Apr 08 09:06:52 2015
Response via : Initial Calibration

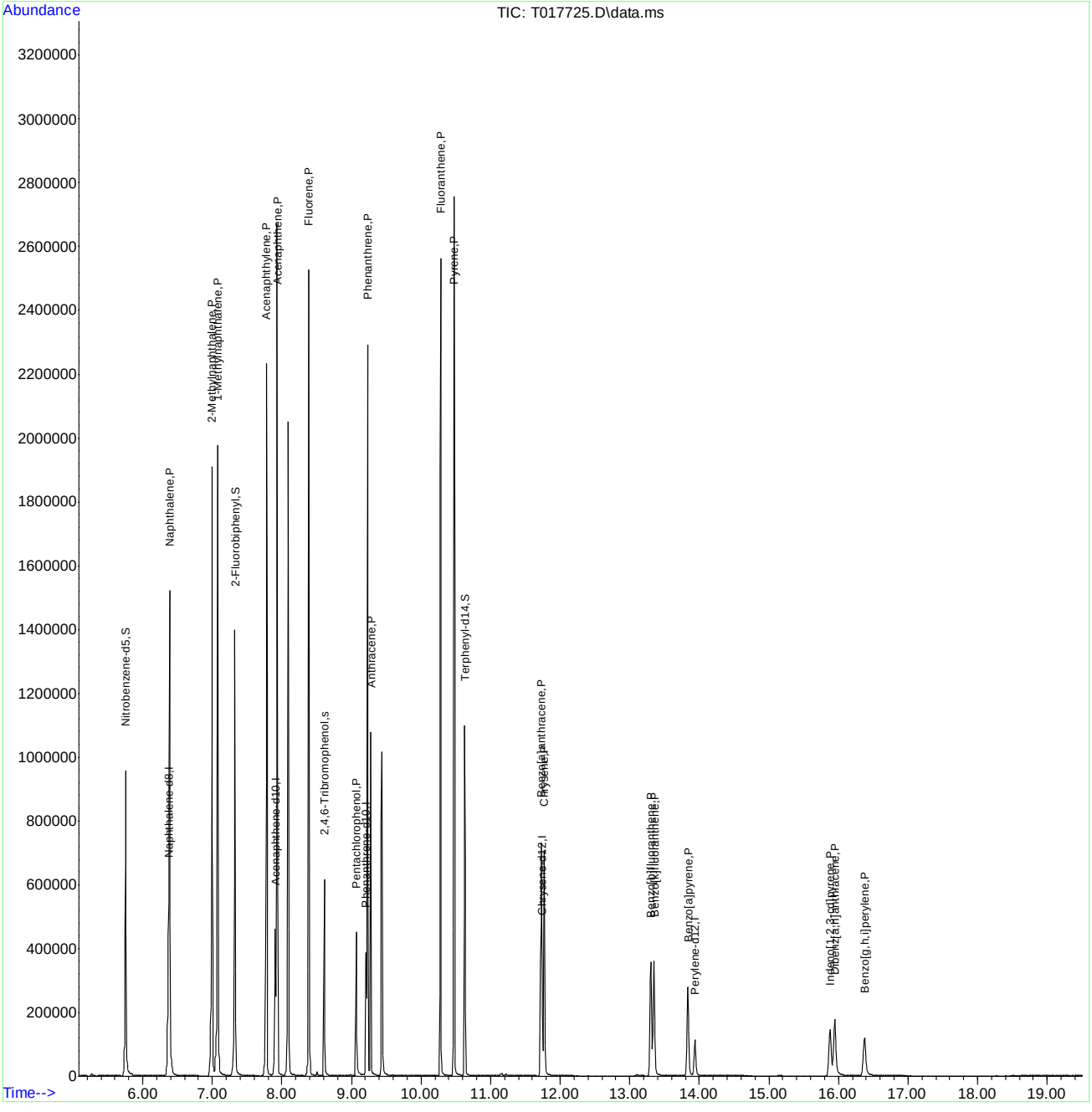
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) Naphthalene-d8	6.369	136	285845	500.00 ppb	0.00
6) Acenaphthene-d10	7.904	164	147706	500.00 ppb	0.00
11) Phenanthrene-d10	9.208	188	236180	500.00 ppb	0.00
17) Chrysene-d12	11.742	240	184963	500.00 ppb	0.00
22) Perylene-d12	13.936	264	136914	500.00 ppb	0.00
System Monitoring Compounds					
2) Nitrobenzene-d5	5.756	82	529536	2005.60 ppb	0.00
Spiked Amount 2000.000	Range 38 - 126		Recovery = 100.28%		
7) 2-Fluorobiphenyl	7.324	172	932286	1936.66 ppb	0.00
Spiked Amount 2000.000	Range 41 - 109		Recovery = 96.83%		
12) 2,4,6-Tribromophenol	8.609	330	201835	3547.12 ppb	0.00
Spiked Amount 4000.000	Range 33 - 118		Recovery = 88.68%		
19) Terphenyl-d14	10.629	244	715476	2009.48 ppb	0.00
Spiked Amount 2000.000	Range 46 - 135		Recovery = 100.47%		
Target Compounds					Qvalue
3) Naphthalene	6.387	128	1337964	1891.48 ppb	99
4) 2-Methylnaphthalene	6.996	142	825532	1910.55 ppb	98
5) 1-Methylnaphthalene	7.080	142	837389	2052.08 ppb	97
8) Acenaphthylene	7.781	152	1379780	2022.19 ppb	99
9) Acenaphthene	7.933	153	862359	2068.64 ppb	94
10) Fluorene	8.390	166	989797	2227.17 ppb	100
13) Pentachlorophenol	9.066	266	153224	8489.68 ppb	94
14) Phenanthrene	9.233	178	1344713	2162.69 ppb	98
15) Anthracene	9.277	178	655412	991.77 ppb	98
16) Fluoranthene	10.280	202	1376631	2257.93 ppb	98
18) Pyrene	10.477	202	1430151	2116.60 ppb	99
20) Benzo[a]anthracene	11.730	228	526446	1069.84 ppb	99
21) Chrysene	11.772	228	521727	1091.41 ppb	99
23) Benzo[b]fluoranthene	13.302	252	421736	1076.98 ppb	99
24) Benzo[k]fluoranthene	13.347	252	429186	1022.51 ppb	99
25) Benzo[a]pyrene	13.836	252	342005	942.93 ppb	100
26) Indeno[1,2,3-cd]pyrene	15.878	276	201226	739.01 ppb	97
27) Dibenz[a,h]anthracene	15.945	278	199967	705.69 ppb	97
28) Benzo[g,h,i]perylene	16.377	276	198269	646.91 ppb	98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\st811\
Data File : T017725.D
Acq On : 7 Apr 2015 11:09 am
Operator : mayrag
Sample : op55540-bs
Misc : op55540,st811,250,,,1,1,water
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Apr 08 09:09:02 2015
Quant Method : C:\msdchem\1\METHODS\SIM_LV.M
Quant Title : PAH's by 8270 SIM
QLast Update : Wed Apr 08 09:06:52 2015
Response via : Initial Calibration



SIM_LV.M Wed Apr 08 09:32:36 2015 Page: 2

ACCUTEST LABORATORIES FA23189

Manual Integrations APPROVED (compounds with "m" flag)
Mike Eger
04/03/15 11:12

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\sx1827\
Data File : x039292.D
Acq On : 31 Mar 2015 10:11 pm
Operator : marthav
Sample : op55512-msd
Misc : op55512,sx1827,30.1,,,1,1,soil
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Apr 01 14:41:36 2015
Quant Method : C:\msdchem\1\METHODS\8270d_03302.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Tue Mar 31 09:29:41 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	5.011	152	302012	40.00	ppm	0.00
22) Naphthalene-d8	6.108	136	1142915	40.00	ppm	0.00
41) Acenaphthene-d10	7.653	164	601810	40.00	ppm	0.00
67) Phenanthrene-d10	8.940	188	915653	40.00	ppm	0.00
83) Chrysene-d12	11.577	240	789063	40.00	ppm	0.00
92) Perylene-d12	13.902	264	546506	40.00	ppm	0.02
System Monitoring Compounds						
5) 2-Fluorophenol	3.988	112	677517	62.66	ppm	0.00
Spiked Amount 100.000	Range 40 - 102		Recovery = 62.66%			
9) Phenol-d5	4.778	99	855894	77.83	ppm	0.00
Spiked Amount 100.000	Range 41 - 100		Recovery = 77.83%			
23) Nitrobenzene-d5	5.508	82	379956	31.39	ppm	0.00
Spiked Amount 50.000	Range 40 - 105		Recovery = 62.78%			
45) 2-Fluorobiphenyl	7.068	172	701899	34.41	ppm	0.00
Spiked Amount 50.000	Range 43 - 107		Recovery = 68.82%			
72) 2,4,6-Tribromophenol	8.355	330	153309	74.54	ppm	0.00
Spiked Amount 100.000	Range 42 - 108		Recovery = 74.54%			
86) Terphenyl-d14	10.381	244	754322	41.84	ppm	0.01
Spiked Amount 50.000	Range 45 - 119		Recovery = 83.68%			
Target Compounds						Qvalue
2) 1,4-Dioxane	2.422	88	118678	25.04	ppm #	48
3) N-nitrosodimethylamine	2.760	42	196660	28.53	ppm	98
4) Pyridine	2.757	79	171346	13.60	ppm	97
6) Benzaldehyde	4.647	106	9235	0.79	ppm	96
7) Aniline	4.772	93	454902	28.46	ppm	99
8) bis(2-Chloroethyl)ether	4.823	93	323775	31.20	ppm	95
10) Phenol	4.786	94	499622	34.72	ppm	98
11) 2-Chlorophenol	4.869	128	393920	34.01	ppm	99
12) 1,3-Dichlorobenzene	4.980	146	358808	29.16	ppm	98
13) 1,4-Dichlorobenzene	5.025	146	378724	30.77	ppm	95
14) 1,2-Dichlorobenzene	5.184	146	349948	29.83	ppm	94
15) Benzyl alcohol	5.156	108	257759	34.68	ppm	96
16) 2-Methylphenol	5.278	108	336238	33.34	ppm	98
17) bis(2-chloroisopropyl)...	5.286	45	609160	29.69	ppm	92
18) Acetophenone	5.377	105	542393	35.57	ppm	95
19) N-Nitroso-di-n-propyla...	5.406	70	191896	32.16	ppm	96
20) 3&4-Methylphenol	5.406	108	731033	69.07	ppm	98
21) Hexachloroethane	5.446	117	130312	25.85	ppm	92
24) Nitrobenzene	5.522	77	371008	32.37	ppm	96
25) Isophorone	5.724	82	696283	33.21	ppm	96
26) 2-Nitrophenol	5.798	139	199067	33.49	ppm	99
27) 2,4-Dimethylphenol	5.849	107	412522	38.02	ppm	98
28) bis(2-Chloroethoxy)met...	5.923	93	397734	33.41	ppm	98
29) Benzoic Acid	5.948	105	183334m	22.22	ppm	
30) 2,4-Dichlorophenol	6.005	162	306651	35.01	ppm	99
31) 1,2,4-Trichlorobenzene	6.073	180	278158	31.16	ppm	99
32) Naphthalene	6.125	128	1000445	33.95	ppm	90

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\sx1827\
Data File : x039292.D
Acq On : 31 Mar 2015 10:11 pm
Operator : marthav
Sample : op55512-msd
Misc : op55512,sx1827,30.1,,,1,1,soil
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Apr 01 14:41:36 2015
Quant Method : C:\msdchem\1\METHODS\8270d_03302.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Tue Mar 31 09:29:41 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 4-Chloroaniline	6.196	127	438095	32.20	ppm	96
34) 2,6-Dichlorophenol	6.005	162	306651	35.01	ppm	99
35) Hexachlorobutadiene	6.287	225	167976	33.67	ppm	98
36) Caprolactam	6.483	113	120106m	33.80	ppm	
37) 4-Chloro-3-methylphenol	6.633	107	348431	36.70	ppm	99
38) 2-Methylnaphthalene	6.724	142	705326	33.73	ppm	97
39) 1-Methylnaphthalene	6.821	142	785090	42.28	ppm	99
40) 1,2,4,5-Tetrachloroben...	6.909	216	275958	31.64	ppm	98
42) Hexachlorocyclopentadiene	6.929	237	52759	9.78	ppm	97
43) 2,4,6-Trichlorophenol	7.003	196	217704	38.23	ppm	99
44) 2,4,5-Trichlorophenol	7.042	196	226327	37.29	ppm	98
46) 1,1'-Biphenyl	7.142	154	817152	35.64	ppm	88
47) 2-Chloronaphthalene	7.150	162	609358	34.39	ppm	95
48) 2-Nitroaniline	7.270	65	255140	38.44	ppm	95
50) Dimethylphthalate	7.460	163	774106	38.81	ppm	95
51) m-Dinitrobenzene	7.469	168	115924	34.38	ppm	85
52) 2,6-Dinitrotoluene	7.517	165	170283	36.40	ppm	80
54) Acenaphthylene	7.517	152	1054541	37.80	ppm	90
55) 3-Nitroaniline	7.270	138	260901	38.95	ppm	99
56) Acenaphthene	7.682	153	685834	38.20	ppm	96
57) 2,4-Dinitrophenol	7.721	184	35702	14.87	ppm	95
58) 4-Nitrophenol	7.804	109	239123	75.11	ppm	92
59) Dibenzofuran	7.821	168	903758	36.07	ppm	91
60) 2,4-Dinitrotoluene	7.858	165	234577	36.82	ppm	91
62) 2,3,4,6-Tetrachlorophenol	7.972	232	164358	35.11	ppm	94
63) Diethylphthalate	8.082	149	807202	39.19	ppm	93
64) Fluorene	8.122	166	789742	38.49	ppm	99
65) 4-Chlorophenyl-phenyle...	8.125	204	331754	35.76	ppm	89
66) 4-Nitroaniline	8.179	138	195160	39.11	ppm	99
68) 4,6-Dinitro-2-methylph...	8.216	198	76632	23.15	ppm	94
69) Diphenylamine	8.236	169	575295	33.85	ppm	96
70) n-Nitrosodiphenylamine	8.236	169	575295	40.63	ppm	96
71) 1,2-Diphenylhydrazine	8.261	77	776587	37.46	ppm	86
73) 4-Bromophenyl-phenylether	8.551	248	152110	31.80	ppm	93
74) Hexachlorobenzene	8.679	284	144666	31.50	ppm	88
76) Atrazine	8.742	200	204219	35.93	ppm	93
77) Pentachlorophenol	8.841	266	260998	88.02	ppm	96
78) Phenanthrene	8.963	178	1074195	39.93	ppm	89
79) Anthracene	9.003	178	1104703	41.17	ppm	89
80) Carbazole	9.151	167	1064220	41.94	ppm	91
81) Di-n-butylphthalate	9.512	149	1349109	42.73	ppm	92
82) Fluoranthene	10.015	202	1161215	41.76	ppm	92
84) Benzidine	10.137	184	201662	17.42	ppm	100
85) Pyrene	10.216	202	1177503	40.37	ppm	92
87) Butylbenzylphthalate	10.938	149	595153	42.71	ppm	98
88) 3,3'-Dichlorobenzidine	11.555	252	280705	44.57	ppm	95
89) Benzo[a]anthracene	11.555	228	954837	41.94	ppm	98
90) Chrysene	11.614	228	909208	42.09	ppm	94
91) bis(2-Ethylhexyl)phtha...	11.734	149	789536	42.79	ppm	98
93) Di-n-octylphthalate	12.722	149	1241592	44.36	ppm	98

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\sx1827\
Data File : x039292.D
Acq On : 31 Mar 2015 10:11 pm
Operator : marthav
Sample : op55512-msd
Misc : op55512,sx1827,30.1,,,1,1,soil
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Apr 01 14:41:36 2015
Quant Method : C:\msdchem\1\METHODS\8270d_03302.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Tue Mar 31 09:29:41 2015
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
94)	Benzo[b]fluoranthene	13.231	252	736986	42.08 ppm	98
95)	Benzo[k]fluoranthene	13.277	252	734878	40.91 ppm	99
96)	Benzo[a]pyrene	13.794	252	663126	42.20 ppm	99
97)	Indeno[1,2,3-cd]pyrene	15.950	276	416237	39.44 ppm	98
98)	Dibenz[a,h]anthracene	16.021	278	419676	42.61 ppm	95
99)	Benzo[g,h,i]perylene	16.419	276	460302	39.43 ppm	99

(#) = qualifier out of range (m) = manual integration (+) = signals summed

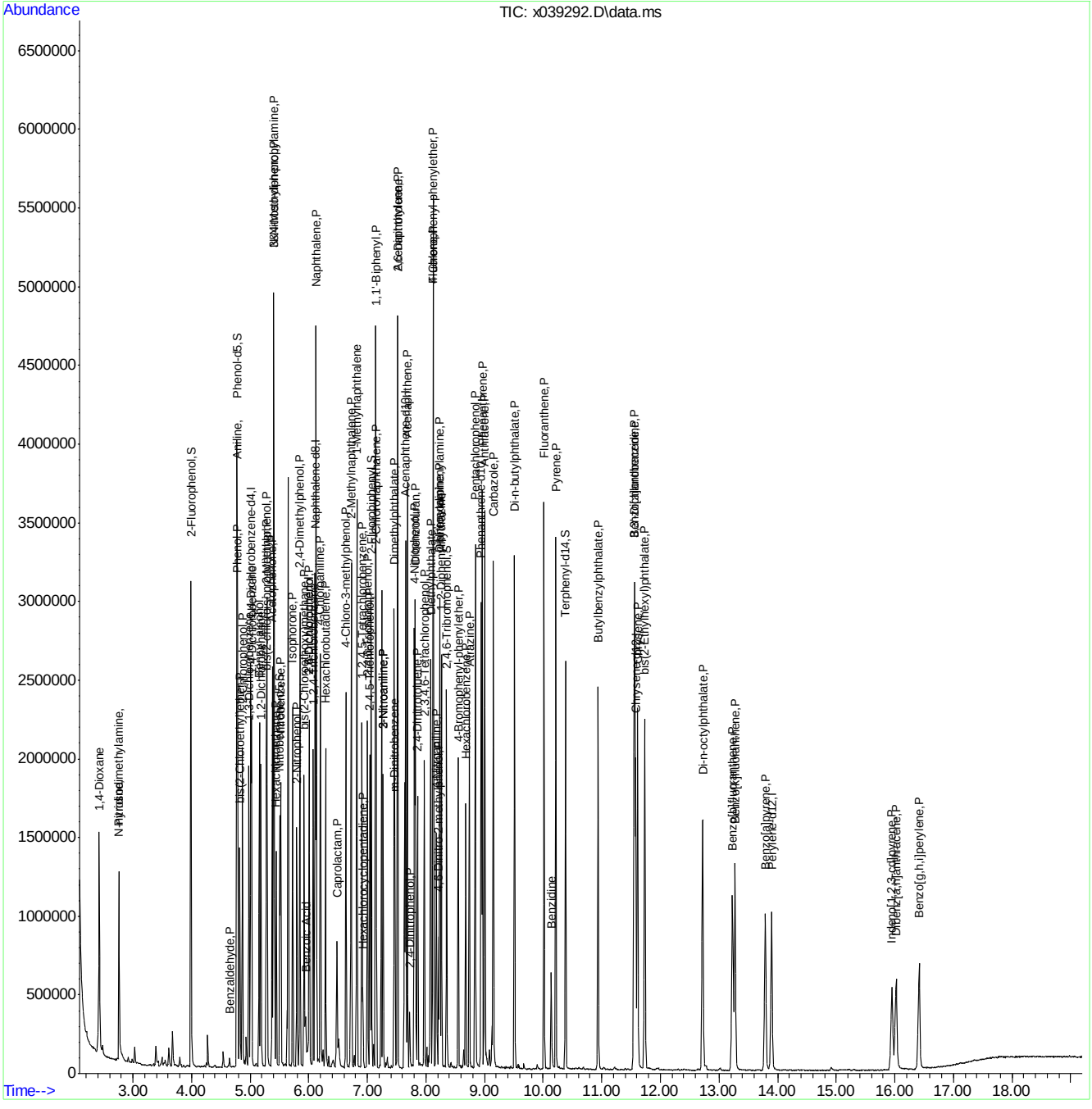
7.4.1

7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\sx1827\
Data File : x039292.D
Acq On : 31 Mar 2015 10:11 pm
Operator : marthav
Sample : op55512-msd
Misc : op55512,sx1827,30.1,,,1,1,soil
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Apr 01 14:41:36 2015
Quant Method : C:\msdchem\1\METHODS\8270d_03302.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Tue Mar 31 09:29:41 2015
Response via : Initial Calibration



ACCUTEST LABORATORIES FA23189

Manual Integration Approval Summary

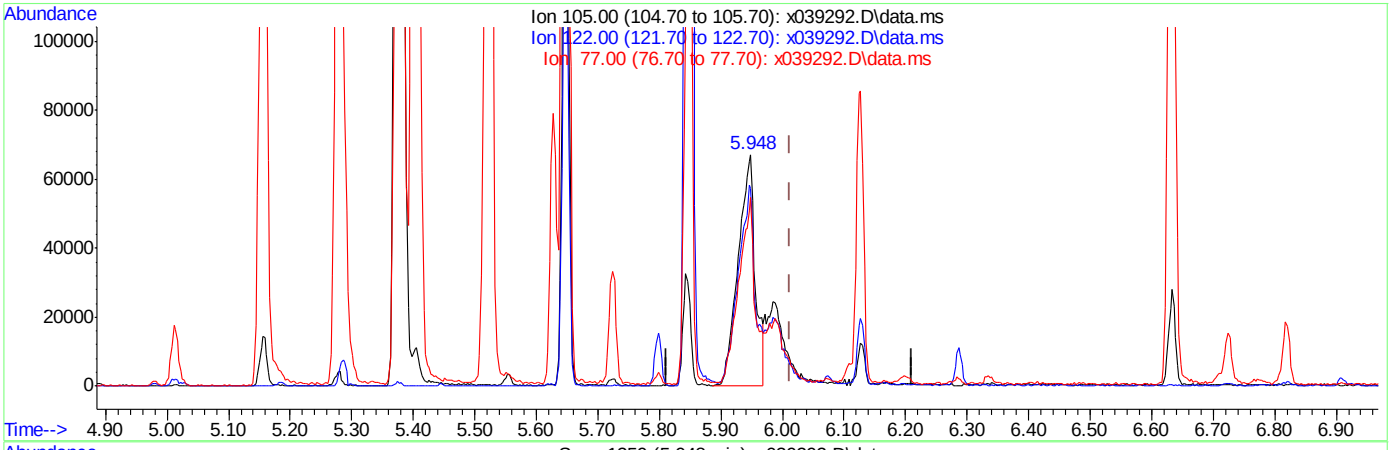
Sample Number:	OP55512-MSD	**Method:**	SW846 8270D
Lab FileID:	X039292.D	**Analyst approved:**	04/01/15 15:26 Martha Valls
Injection Time:	03/31/15 22:11	**Supervisor approved:**	04/03/15 11:12 Mike Eger

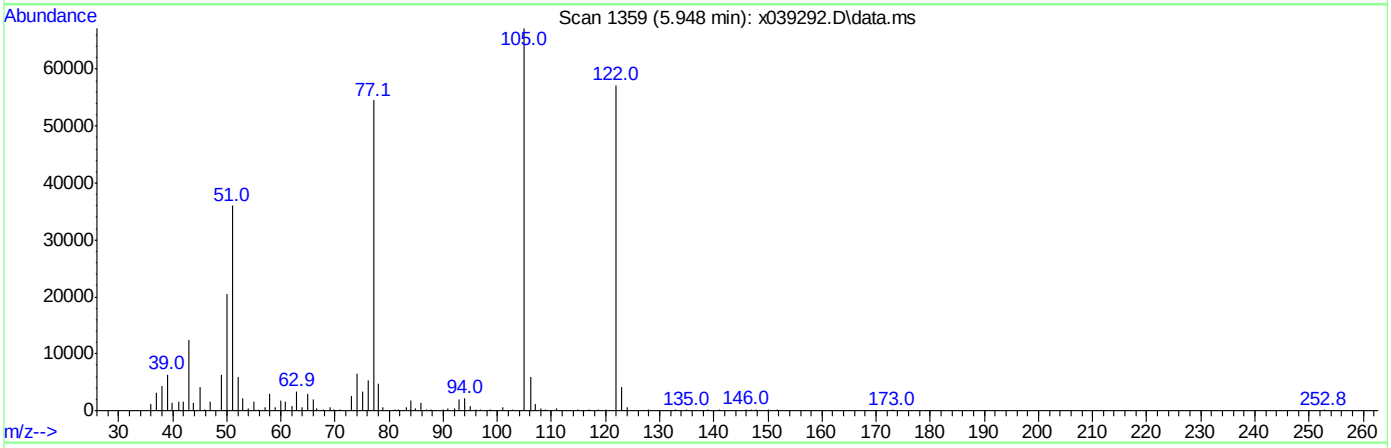
Parameter	CAS	Sig#	R.T. (min.)	Reason
Benzoic Acid	65-85-0		5.95	Split peak
Caprolactam	105-60-2		6.48	Split peak

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\sx1827\
Data File : x039292.D
Acq On : 31 Mar 2015 10:11 pm
Operator : marthav
Sample : op55512-msd
Misc : op55512,sx1827,30.1,,,1,1,soil
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Apr 01 08:31:19 2015
Quant Method : C:\msdchem\1\METHODS\8270d_03302.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Tue Mar 31 09:29:41 2015
Response via : Initial Calibration





TIC: x039292.D\data.ms

(29) Benzoic Acid

5.948min (-0.064) 15.61ppm

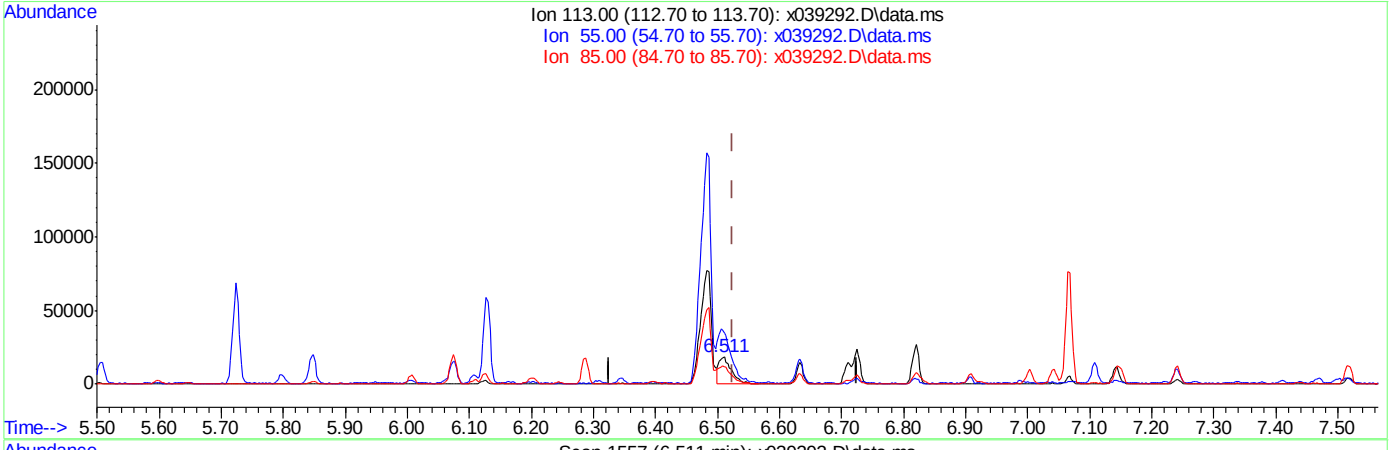
response 128813

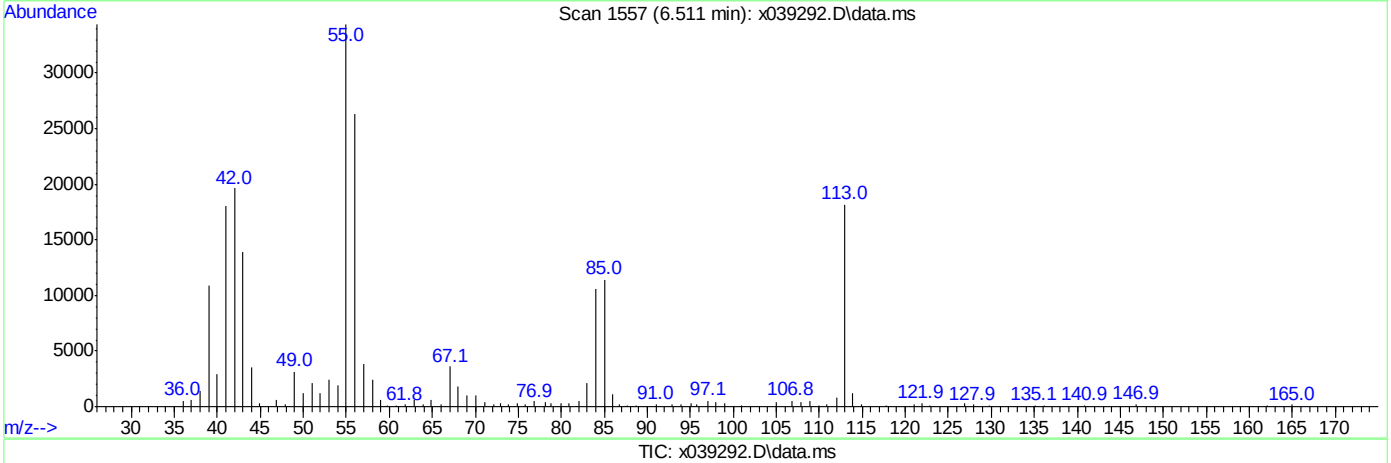
Ion	Exp%	Act%
105.00	100	100
122.00	83.70	83.77
77.00	75.60	79.83
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\sx1827\
Data File : x039292.D
Acq On : 31 Mar 2015 10:11 pm
Operator : marthav
Sample : op55512-msd
Misc : op55512,sx1827,30.1,,,1,1,soil
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Apr 01 08:31:19 2015
Quant Method : C:\msdchem\1\METHODS\8270d_03302.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Tue Mar 31 09:29:41 2015
Response via : Initial Calibration





TIC: x039292.D\data.ms

(36) Caprolactam (P)

6.511min (-0.015) 6.95ppm

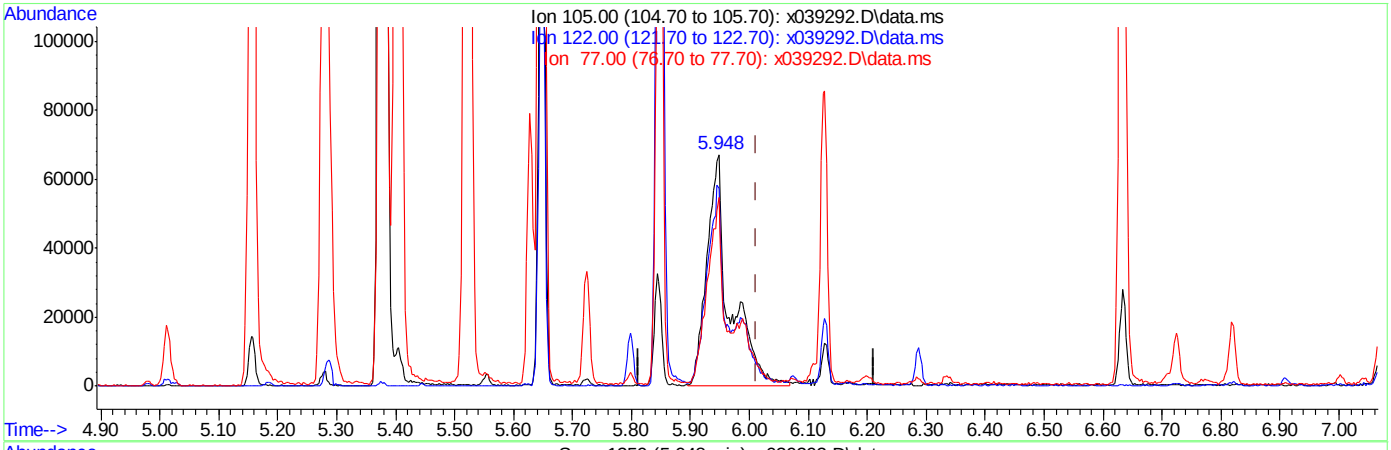
response 24692

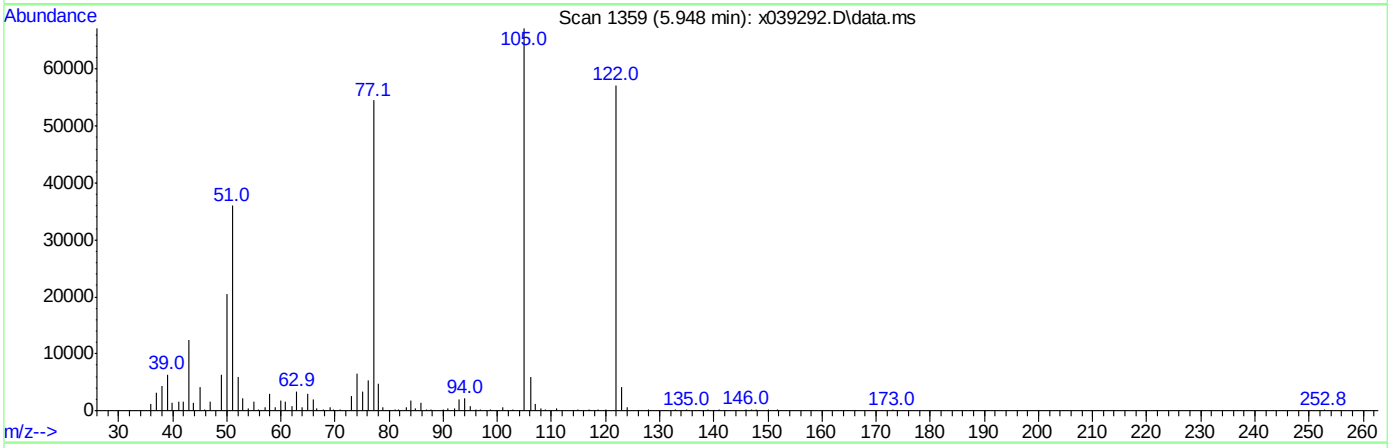
Ion	Exp%	Act%
113.00	100	100
55.00	179.50	159.00
85.00	64.50	48.71
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\sx1827\
Data File : x039292.D
Acq On : 31 Mar 2015 10:11 pm
Operator : marthav
Sample : op55512-msd
Misc : op55512,sx1827,30.1,,,1,1,soil
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Apr 01 14:41:36 2015
Quant Method : C:\msdchem\1\METHODS\8270d_03302.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Tue Mar 31 09:29:41 2015
Response via : Initial Calibration





(29) Benzoic Acid

5.948min (-0.064) 22.22ppm m

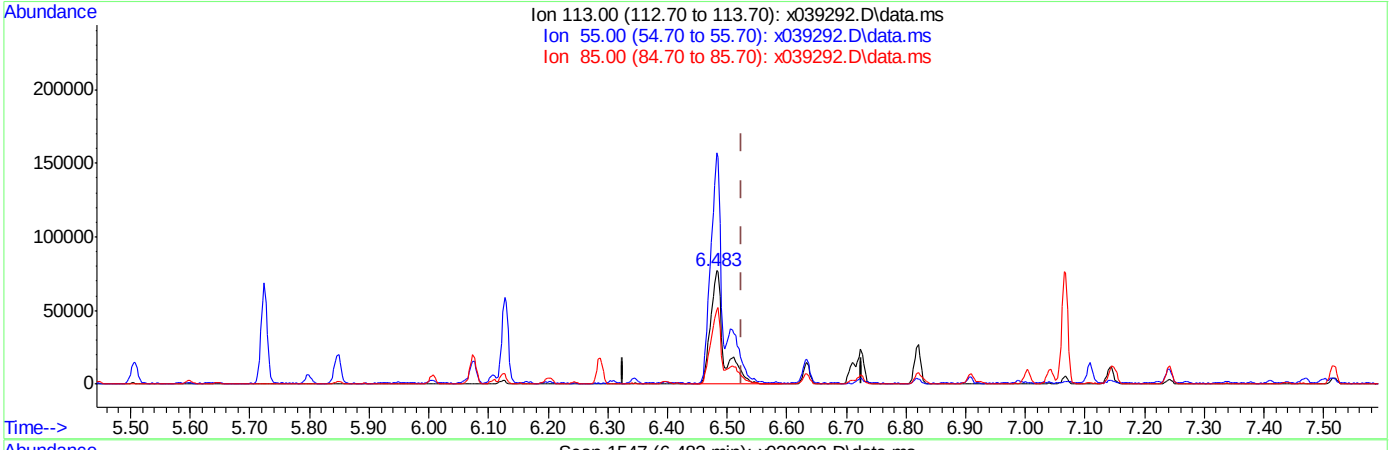
response 183334

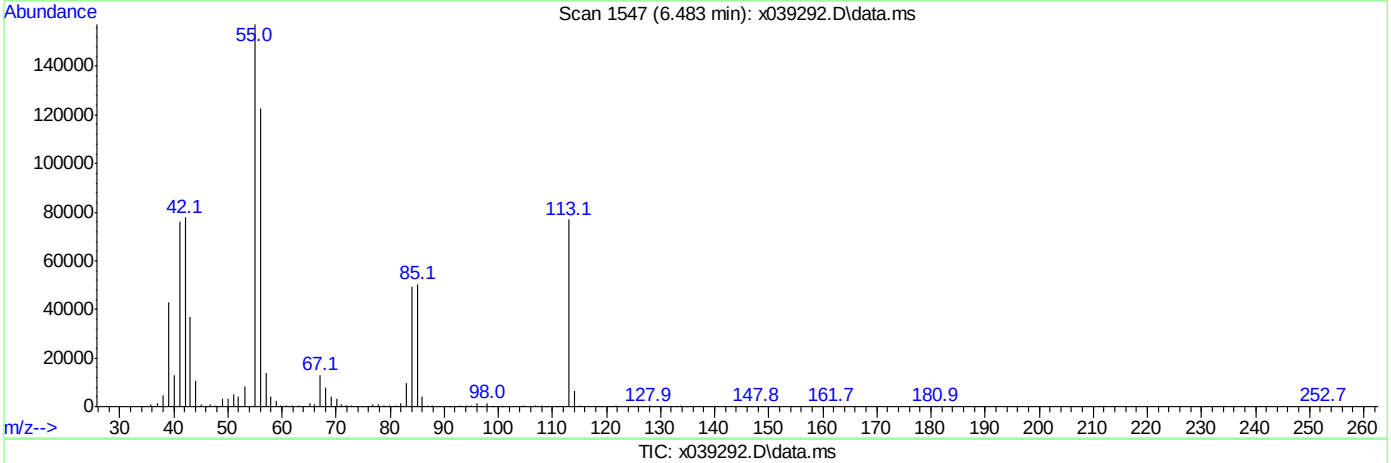
Ion	Exp%	Act%
105.00	100	100
122.00	83.70	85.16
77.00	75.60	81.23
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\sx1827\
Data File : x039292.D
Acq On : 31 Mar 2015 10:11 pm
Operator : marthav
Sample : op55512-msd
Misc : op55512,sx1827,30.1,,,1,1,soil
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Apr 01 14:41:36 2015
Quant Method : C:\msdchem\1\METHODS\8270d_03302.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Tue Mar 31 09:29:41 2015
Response via : Initial Calibration





TIC: x039292.D\data.ms

(36) Caprolactam (P)

6.483min (-0.043) 33.80ppm m

response 120106

Ion	Exp%	Act%
113.00	100	100
55.00	179.50	204.24
85.00	64.50	65.52
0.00	0.00	0.00

Manual Integrations APPROVED (compounds with "m" flag)
Mike Eger
04/03/15 11:12

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\SU2287\
Data File : U049971.D
Acq On : 1 Apr 2015 6:07 pm
Operator : nareshj
Sample : op55512-ms
Misc : op55512,su2287,30.,,,1,1,soil
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Apr 02 08:37:54 2015
Quant Method : C:\msdchem\2\METHODS\8270da2.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Tue Mar 31 14:48:34 2015
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.712	152	60532	40.00	ppm	0.00
22) Naphthalene-d8	5.811	136	243984	40.00	ppm	0.00
42) Acenaphthene-d10	8.025	164	125283	40.00	ppm	-0.01
68) Phenanthrene-d10	10.451	188	201639	40.00	ppm	-0.01
84) Chrysene-d12	15.356	240	189869	40.00	ppm	-0.02
93) Perylene-d12	17.859	264	159474	40.00	ppm	-0.02

System Monitoring Compounds

7) 2-Fluorophenol	3.814	112	147502	72.22	ppm	0.00
Spiked Amount 100.000	Range 40 - 102		Recovery = 72.22%			
9) Phenol-d5	4.516	99	198746	89.48	ppm	0.00
Spiked Amount 100.000	Range 41 - 100		Recovery = 89.48%			
23) Nitrobenzene-d5	5.175	82	82605	34.70	ppm	0.00
Spiked Amount 50.000	Range 40 - 105		Recovery = 69.40%			
46) 2-Fluorobiphenyl	7.081	172	171230	39.03	ppm	-0.01
Spiked Amount 50.000	Range 43 - 107		Recovery = 78.06%			
73) 2,4,6-Tribromophenol	9.309	330	48497	81.60	ppm	-0.02
Spiked Amount 100.000	Range 42 - 108		Recovery = 81.60%			
87) Terphenyl-d14	13.477	244	174321	42.29	ppm	-0.02
Spiked Amount 50.000	Range 45 - 119		Recovery = 84.58%			

Target Compounds

						Qvalue
2) 1,4-Dioxane	2.311	88	25845	30.14	ppm #	65
3) N-nitrosodimethylamine	2.643	42	31341	36.04	ppm	99
4) Pyridine	2.646	79	40696	17.95	ppm	98
5) Benzaldehyde	4.393	106	1878	0.84	ppm	89
6) Aniline	4.501	93	108063	32.02	ppm	81
8) bis(2-Chloroethyl)ether	4.541	93	75467	36.27	ppm	93
10) Phenol	4.524	94	107761	40.11	ppm	95
11) 2-Chlorophenol	4.592	128	89562	39.27	ppm	99
12) 1,3-Dichlorobenzene	4.683	146	81213	33.30	ppm	99
13) 1,4-Dichlorobenzene	4.723	146	86195	34.98	ppm	99
14) 1,2-Dichlorobenzene	4.868	146	79962	34.01	ppm	98
15) Benzyl alcohol	4.845	108	58696	38.86	ppm	98
16) bis(2-chloroisopropyl)...	4.956	45	96865	37.29	ppm	88
17) 2-Methylphenol	4.962	108	77516	38.34	ppm	95
18) Acetophenone	5.047	105	122694	41.14	ppm	99
19) Hexachloroethane	5.115	117	32654	35.67	ppm	95
20) N-Nitroso-di-n-propyla...	5.073	70	55555	39.17	ppm	99
21) 3&4-Methylphenol	5.078	108	170188	79.50	ppm	97
24) Nitrobenzene	5.189	77	83610	35.50	ppm	99
25) Isophorone	5.391	82	152248	34.82	ppm	99
26) 2-Nitrophenol	5.470	139	48219	36.45	ppm	96
27) 2,4-Dimethylphenol	5.519	107	89884	40.07	ppm	96
28) bis(2-Chloroethoxy)met...	5.593	93	90722	35.06	ppm	100
29) Benzoic Acid	5.624	105	29624	16.25	ppm	96
30) 2,4-Dichlorophenol	5.700	162	72561	37.71	ppm	100
31) 1,2,4-Trichlorobenzene	5.772	180	67136	32.42	ppm	95
33) Naphthalene	5.831	128	242682	35.91	ppm	99
34) 4-Chloroaniline	5.911	127	91031	30.32	ppm	99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\SU2287\
Data File : U049971.D
Acq On : 1 Apr 2015 6:07 pm
Operator : nareshj
Sample : op55512-ms
Misc : op55512,su2287,30.,,,1,1,soil
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Apr 02 08:37:54 2015
Quant Method : C:\msdchem\2\METHODS\8270da2.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Tue Mar 31 14:48:34 2015
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
35) 2,6-Dichlorophenol	5.922	162	67173	34.73	ppm	99
36) Hexachlorobutadiene	6.019	225	40736	36.53	ppm	94
37) Caprolactam	6.249	113	26442m	33.73	ppm	
38) 4-Chloro-3-methylphenol	6.468	107	75775	39.02	ppm	97
39) 2-Methylnaphthalene	6.584	142	161310	35.15	ppm	99
40) 1-Methylnaphthalene	6.718	142	180065	44.53	ppm	99
41) 1,2,4,5-Tetrachloroben...	6.846	216	69403	33.44	ppm	98
43) Hexachlorocyclopentadiene	6.874	237	36700	30.68	ppm	95
44) 2,4,6-Trichlorophenol	6.990	196	52237	42.17	ppm	94
45) 2,4,5-Trichlorophenol	7.047	196	54636	41.68	ppm	96
47) 1,1'-Biphenyl	7.198	154	189224	38.50	ppm	99
48) 2-Chloronaphthalene	7.204	162	144314	39.19	ppm	98
49) 2-Nitroaniline	7.402	65	48010	43.42	ppm	93
51) Acenaphthylene	7.795	152	256419	41.86	ppm	99
52) Dimethylphthalate	7.726	163	171222	40.78	ppm	98
53) m-Dinitrobenzene	7.732	168	28071	37.20	ppm	93
54) 2,6-Dinitrotoluene	7.815	165	40579	39.50	ppm	94
56) Acenaphthene	8.073	153	159563	42.52	ppm	99
57) 3-Nitroaniline	8.016	138	44705	39.20	ppm	98
58) 2,4-Dinitrophenol	8.170	184	34891	50.86	ppm	93
59) Dibenzofuran	8.320	168	213141	39.96	ppm	78
60) 2,4-Dinitrotoluene	8.411	165	55319	40.37	ppm	98
61) 4-Nitrophenol	8.374	109	43519	88.60	ppm	95
63) 2,3,4,6-Tetrachlorophenol	8.610	232	40149	38.08	ppm	99
64) Fluorene	8.872	166	181618	42.71	ppm	100
65) 4-Chlorophenyl-phenyle...	8.903	204	80158	39.27	ppm	98
66) Diethylphthalate	8.854	149	165368	41.34	ppm	99
67) 4-Nitroaniline	9.005	138	46155	40.05	ppm	93
69) 4,6-Dinitro-2-methylph...	9.076	198	62547	78.19	ppm	91
70) n-Nitrosodiphenylamine	9.124	169	128249	42.92	ppm	99
71) Diphenylamine	9.124	169	128249	35.77	ppm	99
72) 1,2-Diphenylhydrazine	9.161	77	164788	40.22	ppm	100
74) 4-Bromophenyl-phenylether	9.718	248	40272	36.14	ppm	99
75) Hexachlorobenzene	9.934	284	43838	35.18	ppm	98
77) Atrazine	10.159	200	42424	37.20	ppm	98
78) Pentachlorophenol	10.281	266	64669	81.96	ppm	96
79) Phenanthrene	10.491	178	254045	43.86	ppm	99
80) Anthracene	10.568	178	251994	43.38	ppm	100
81) Carbazole	10.912	167	237615	43.44	ppm	98
82) Di-n-butylphthalate	11.778	149	267648	41.95	ppm	98
83) Fluoranthene	12.653	202	255113	43.55	ppm	98
85) Benzidine	12.997	184	37071	11.01	ppm	96
86) Pyrene	13.048	202	267331	44.23	ppm	99
88) Butylbenzylphthalate	14.563	149	111160	41.46	ppm	99
89) 3,3'-Dichlorobenzidine	15.404	252	74669	37.52	ppm	98
90) Benzo[a]anthracene	15.327	228	226358	42.39	ppm	97
91) Chrysene	15.401	228	214782	42.99	ppm	99
92) bis(2-Ethylhexyl)phtha...	15.779	149	150158	41.11	ppm	97
94) Di-n-octylphthalate	16.890	149	240357	42.48	ppm	100
95) Benzo[b]fluoranthene	17.248	252	200033	41.89	ppm	98

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\SU2287\
Data File : U049971.D
Acq On : 1 Apr 2015 6:07 pm
Operator : nareshj
Sample : op55512-ms
Misc : op55512,su2287,30.,,,1,1,soil
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Apr 02 08:37:54 2015
Quant Method : C:\msdchem\2\METHODS\8270da2.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Tue Mar 31 14:48:34 2015
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
96) Benzo[k]fluoranthene	17.291	252	198749	43.84 ppm	98
97) Benzo[a]pyrene	17.762	252	190051	41.29 ppm	99
98) Indeno[1,2,3-cd]pyrene	19.447	276	156260	36.51 ppm	99
99) Dibenz[a,h]anthracene	19.490	278	165494	39.15 ppm	99
100) Benzo[g,h,i]perylene	19.785	276	178015	39.90 ppm	97

(#) = qualifier out of range (m) = manual integration (+) = signals summed

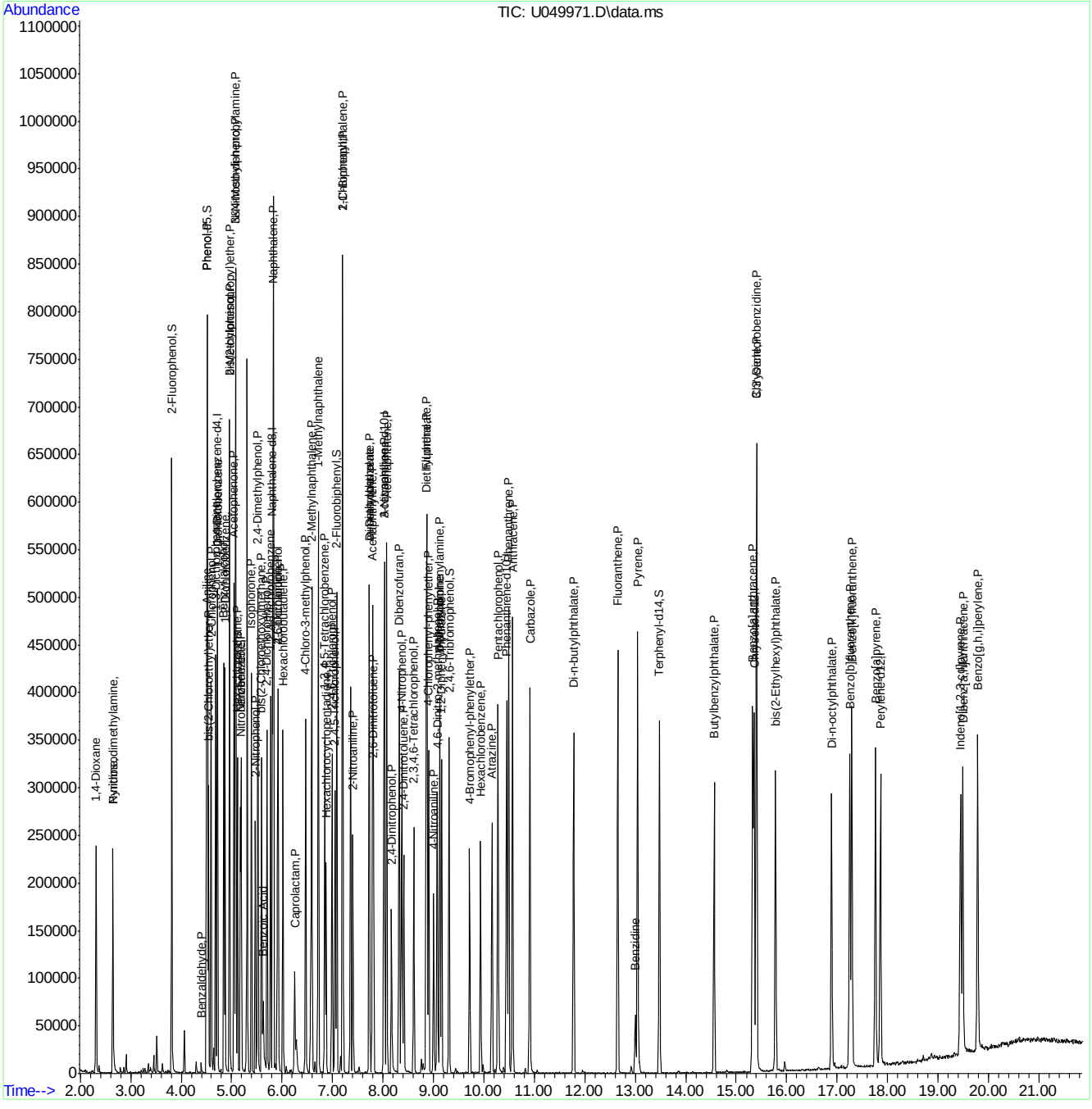
7.4.2

7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\SU2287\
Data File : U049971.D
Acq On : 1 Apr 2015 6:07 pm
Operator : nareshj
Sample : op55512-ms
Misc : op55512,su2287,30.,,,1,1,soil
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Apr 02 08:37:54 2015
Quant Method : C:\msdchem\2\METHODS\8270da2.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Tue Mar 31 14:48:34 2015
Response via : Initial Calibration



ACCUTEST LABORATORIES FA23189

Manual Integration Approval Summary

Sample Number:	OP55512-MS	**Method:**	SW846 8270D
Lab FileID:	U049971.D	**Analyst approved:**	04/02/15 13:30 Naresh Jiawan
Injection Time:	04/01/15 18:07	**Supervisor approved:**	04/03/15 11:12 Mike Eger

Parameter	CAS	Sig#	R.T. (min.)	Reason
Caprolactam	105-60-2		6.25	Split peak

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\2\DATA\SU2287\
Data File : U049971.D
Acq On    :  1 Apr 2015   6:07 pm
Operator  : nareshj
Sample    : op55512-ms
Misc      : op55512,su2287,30.,,,1,1,soil
ALS Vial  : 20   Sample Multiplier: 1

Quant Time: Apr 02 08:28:41 2015
Quant Method : C:\msdchem\2\METHODS\8270da2.m
Quant Title  : SW846 8270D OR EPA 625
QLast Update : Tue Mar 31 14:48:34 2015
Response via : Initial Calibration
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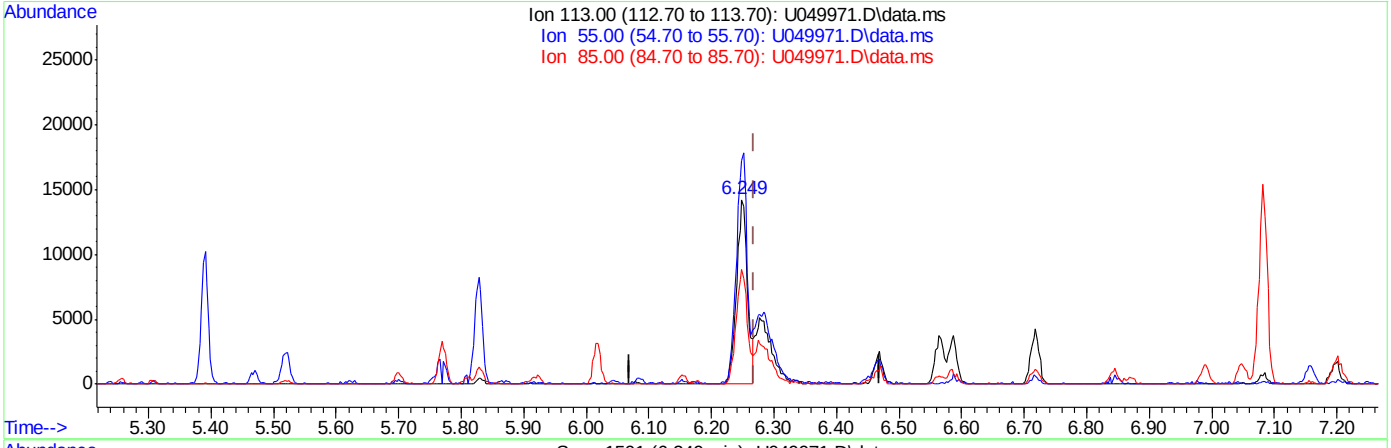
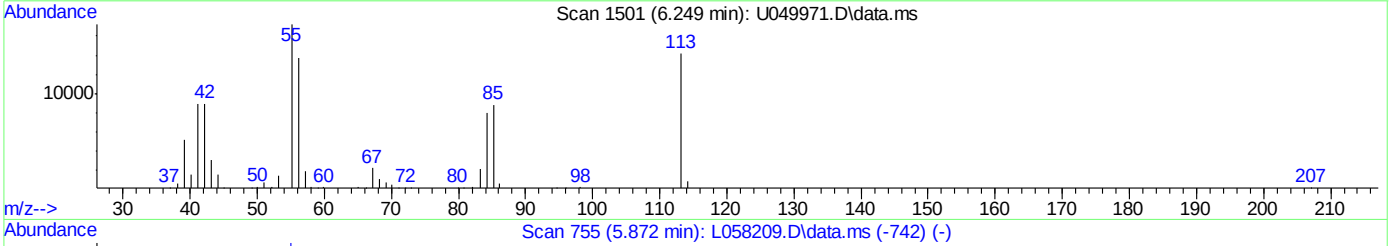
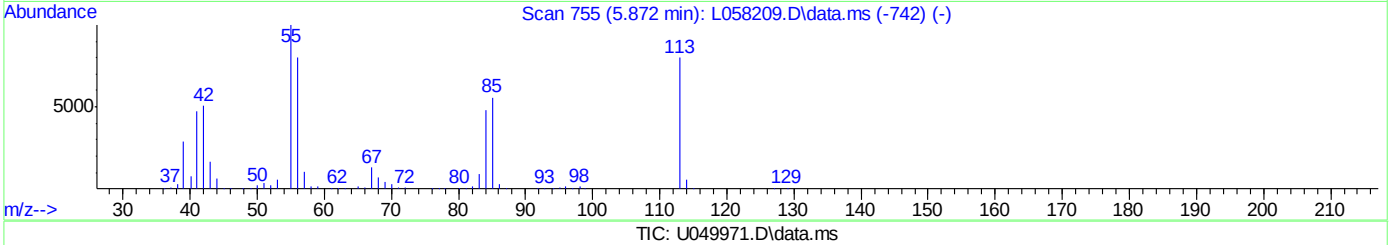






TIC: U049971.D\data.ms

(37) Caprolactam (P)

6.249min (-0.020) 21.84ppm

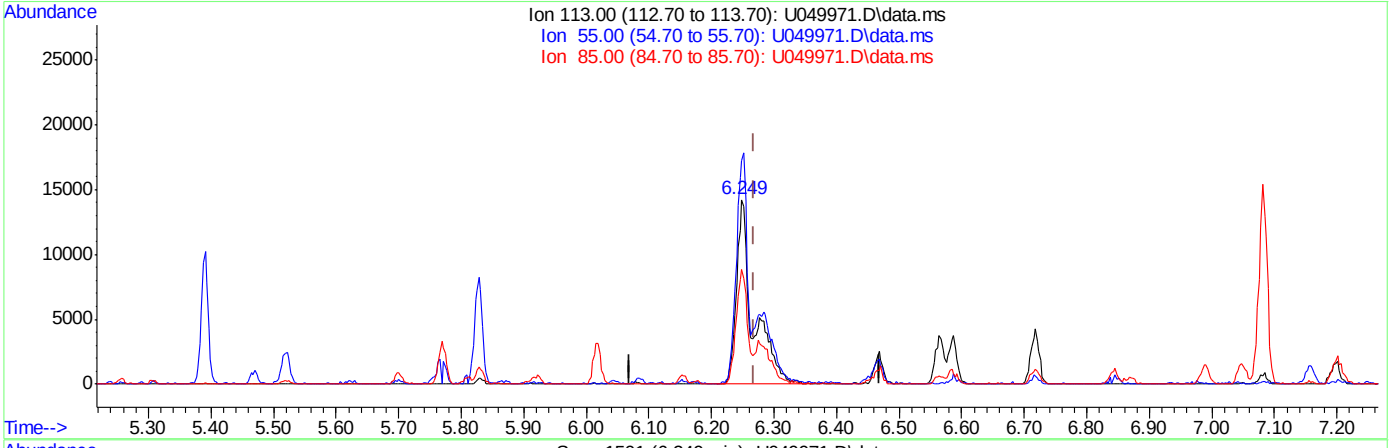
response 17123

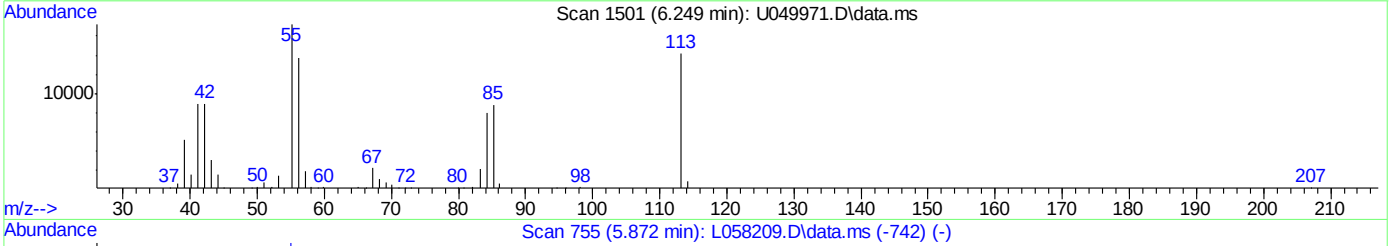
Ion	Exp%	Act%
113.00	100	100
55.00	111.60	120.72
85.00	56.60	61.83
0.00	0.00	0.00

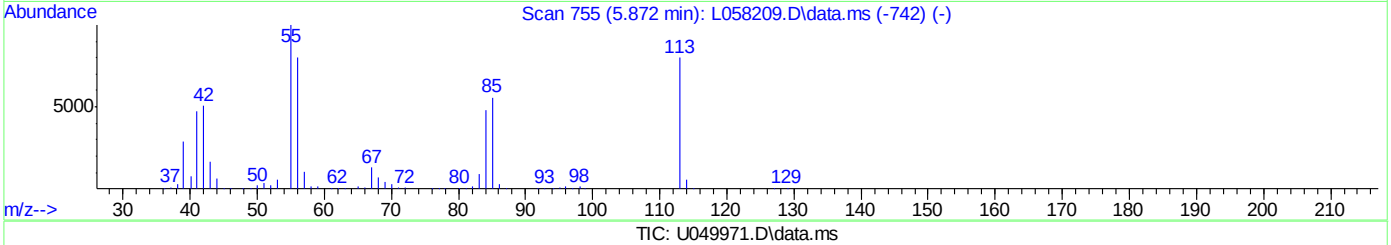
Quantitation Report (Qedit)

Data Path : C:\msdchem\2\DATA\SU2287\
Data File : U049971.D
Acq On : 1 Apr 2015 6:07 pm
Operator : nareshj
Sample : op55512-ms
Misc : op55512,su2287,30.,,,1,1,soil
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Apr 02 08:28:41 2015
Quant Method : C:\msdchem\2\METHODS\8270da2.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Tue Mar 31 14:48:34 2015
Response via : Initial Calibration







TIC: U049971.D\data.ms

(37) Caprolactam (P)

6.249min (-0.020) 33.73ppm m

response 26442

Ion	Exp%	Act%
113.00	100	100
55.00	111.60	121.01
85.00	56.60	61.97
0.00	0.00	0.00

Manual Integrations APPROVED (compounds with "m" flag)
Mike Eger
04/02/15 14:34

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\sx1828\
Data File : x039319.D
Acq On : 1 Apr 2015 4:52 pm
Operator : marthav
Sample : op55531-ms
Misc : op55531,sx1828,29.8,,,1,1,soil
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Apr 02 09:36:14 2015
Quant Method : C:\msdchem\1\METHODS\8270d_03302.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Tue Mar 31 09:29:41 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.991	152	239286	40.00	ppm	0.00
22) Naphthalene-d8	6.088	136	926622	40.00	ppm	0.00
41) Acenaphthene-d10	7.630	164	487956	40.00	ppm	0.00
67) Phenanthrene-d10	8.918	188	757233	40.00	ppm	0.00
83) Chrysene-d12	11.543	240	658850	40.00	ppm	0.00
92) Perylene-d12	13.845	264	437893	40.00	ppm	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	3.968	112	562129	65.62	ppm	0.00
Spiked Amount 100.000	Range 40 - 102		Recovery = 65.62%			
9) Phenol-d5	4.758	99	687322	78.88	ppm	0.00
Spiked Amount 100.000	Range 41 - 100		Recovery = 78.88%			
23) Nitrobenzene-d5	5.485	82	315056	32.10	ppm	0.00
Spiked Amount 50.000	Range 40 - 105		Recovery = 64.20%			
45) 2-Fluorobiphenyl	7.045	172	563448	34.07	ppm	0.00
Spiked Amount 50.000	Range 43 - 107		Recovery = 68.14%			
72) 2,4,6-Tribromophenol	8.329	330	138044	81.16	ppm	-0.01
Spiked Amount 100.000	Range 42 - 108		Recovery = 81.16%			
86) Terphenyl-d14	10.355	244	654797	43.50	ppm	0.00
Spiked Amount 50.000	Range 45 - 119		Recovery = 87.00%			
Target Compounds						Qvalue
2) 1,4-Dioxane	2.399	88	110258	29.36	ppm #	68
3) N-nitrosodimethylamine	2.740	42	170583	31.23	ppm	97
4) Pyridine	2.729	79	220732	22.12	ppm	99
6) Benzaldehyde	4.630	106	6304	0.68	ppm	95
7) Aniline	4.752	93	371847	29.36	ppm	70
8) bis(2-Chloroethyl)ether	4.803	93	270197	32.86	ppm	97
10) Phenol	4.766	94	398393	34.94	ppm	99
11) 2-Chlorophenol	4.849	128	314789	34.30	ppm	99
12) 1,3-Dichlorobenzene	4.959	146	294187	30.17	ppm	99
13) 1,4-Dichlorobenzene	5.005	146	309832	31.77	ppm	97
14) 1,2-Dichlorobenzene	5.164	146	286764	30.85	ppm	96
15) Benzyl alcohol	5.136	108	203987	34.64	ppm	95
16) 2-Methylphenol	5.258	108	269918	33.78	ppm	97
17) bis(2-chloroisopropyl)...	5.266	45	487931	30.07	ppm	90
18) Acetophenone	5.357	105	438143	36.26	ppm	96
19) N-Nitroso-di-n-propyla...	5.386	70	154768	32.73	ppm	99
20) 3&4-Methylphenol	5.386	108	579819	69.15	ppm	100
21) Hexachloroethane	5.425	117	121919	30.53	ppm	96
24) Nitrobenzene	5.502	77	301562	32.45	ppm	99
25) Isophorone	5.704	82	558848	32.87	ppm	97
26) 2-Nitrophenol	5.778	139	171159	35.51	ppm	97
27) 2,4-Dimethylphenol	5.826	107	331292	37.66	ppm	98
28) bis(2-Chloroethoxy)met...	5.903	93	317291	32.87	ppm	97
29) Benzoic Acid	5.937	105	195195m	29.18	ppm	
30) 2,4-Dichlorophenol	5.985	162	249033	35.07	ppm	99
31) 1,2,4-Trichlorobenzene	6.053	180	221103	30.55	ppm	96
32) Naphthalene	6.105	128	807695	33.81	ppm	90

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\sx1828\
Data File : x039319.D
Acq On : 1 Apr 2015 4:52 pm
Operator : marthav
Sample : op55531-ms
Misc : op55531,sx1828,29.8,,,1,1,soil
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Apr 02 09:36:14 2015
Quant Method : C:\msdchem\1\METHODS\8270d_03302.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Tue Mar 31 09:29:41 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 4-Chloroaniline	6.173	127	317668	28.80	ppm	96
34) 2,6-Dichlorophenol	5.985	162	249033	35.07	ppm	99
35) Hexachlorobutadiene	6.267	225	134357	33.22	ppm	96
36) Caprolactam	6.465	113	107443m	37.30	ppm	
37) 4-Chloro-3-methylphenol	6.610	107	288470	37.48	ppm	99
38) 2-Methylnaphthalene	6.704	142	552070	32.56	ppm	97
39) 1-Methylnaphthalene	6.798	142	618718	41.09	ppm	98
40) 1,2,4,5-Tetrachloroben...	6.886	216	219280	31.01	ppm	99
42) Hexachlorocyclopentadiene	6.906	237	109632	25.07	ppm	95
43) 2,4,6-Trichlorophenol	6.980	196	177978	38.54	ppm	100
44) 2,4,5-Trichlorophenol	7.017	196	192295	39.07	ppm	100
46) 1,1'-Biphenyl	7.119	154	644359	34.66	ppm	87
47) 2-Chloronaphthalene	7.127	162	488692	34.02	ppm	96
48) 2-Nitroaniline	7.247	65	213156	39.61	ppm	95
50) Dimethylphthalate	7.437	163	641528	39.66	ppm	95
51) m-Dinitrobenzene	7.446	168	98519	36.04	ppm	77
52) 2,6-Dinitrotoluene	7.494	165	145486	38.36	ppm	81
54) Acenaphthylene	7.494	152	853367	37.73	ppm	88
55) 3-Nitroaniline	7.247	138	217858	40.11	ppm	97
56) Acenaphthene	7.659	153	548225	37.66	ppm	98
57) 2,4-Dinitrophenol	7.699	184	139948	61.94	ppm	93
58) 4-Nitrophenol	7.781	109	207627	79.92	ppm	94
59) Dibenzofuran	7.798	168	731109	35.99	ppm	91
60) 2,4-Dinitrotoluene	7.835	165	202852	39.27	ppm	87
62) 2,3,4,6-Tetrachlorophenol	7.949	232	142905	37.65	ppm	95
63) Diethylphthalate	8.062	149	668715	40.04	ppm	94
64) Fluorene	8.099	166	664432	39.94	ppm	98
65) 4-Chlorophenyl-phenyle...	8.102	204	282130	37.51	ppm	90
66) 4-Nitroaniline	8.159	138	168415	41.63	ppm	97
68) 4,6-Dinitro-2-methylph...	8.193	198	227445	74.61	ppm	94
69) Diphenylamine	8.216	169	489415	34.83	ppm	95
70) n-Nitrosodiphenylamine	8.216	169	489415	41.79	ppm	95
71) 1,2-Diphenylhydrazine	8.241	77	653087	38.09	ppm	88
73) 4-Bromophenyl-phenylether	8.528	248	133552	33.76	ppm	96
74) Hexachlorobenzene	8.656	284	124528	32.78	ppm	87
76) Atrazine	8.719	200	171962	36.58	ppm	92
77) Pentachlorophenol	8.818	266	243824	99.43	ppm	97
78) Phenanthrene	8.937	178	921357	41.41	ppm	90
79) Anthracene	8.977	178	941952	42.45	ppm	89
80) Carbazole	9.125	167	880940	41.98	ppm	92
81) Di-n-butylphthalate	9.492	149	1104198	42.29	ppm	92
82) Fluoranthene	9.992	202	991449	43.11	ppm	92
84) Benzidine	10.114	184	192823	19.95	ppm	97
85) Pyrene	10.193	202	1031038	42.33	ppm	89
87) Butylbenzylphthalate	10.912	149	496012	42.63	ppm	98
88) 3,3'-Dichlorobenzidine	11.517	252	195658	37.20	ppm	96
89) Benzo[a]anthracene	11.517	228	822270	43.26	ppm	95
90) Chrysene	11.577	228	771909	42.79	ppm	96
91) bis(2-Ethylhexyl)phtha...	11.702	149	664920	43.16	ppm	96
93) Di-n-octylphthalate	12.680	149	977884	43.61	ppm	98

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\sx1828\
Data File : x039319.D
Acq On : 1 Apr 2015 4:52 pm
Operator : marthav
Sample : op55531-ms
Misc : op55531,sx1828,29.8,,,1,1,soil
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Apr 02 09:36:14 2015
Quant Method : C:\msdchem\1\METHODS\8270d_03302.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Tue Mar 31 09:29:41 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
94) Benzo[b]fluoranthene	13.177	252	618420	44.07 ppm	99
95) Benzo[k]fluoranthene	13.225	252	616533	42.83 ppm	97
96) Benzo[a]pyrene	13.737	252	547735	43.50 ppm	99
97) Indeno[1,2,3-cd]pyrene	15.888	276	370694	43.48 ppm	99
98) Dibenz[a,h]anthracene	15.959	278	365126	45.83 ppm	99
99) Benzo[g,h,i]perylene	16.356	276	445030	47.57 ppm	98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

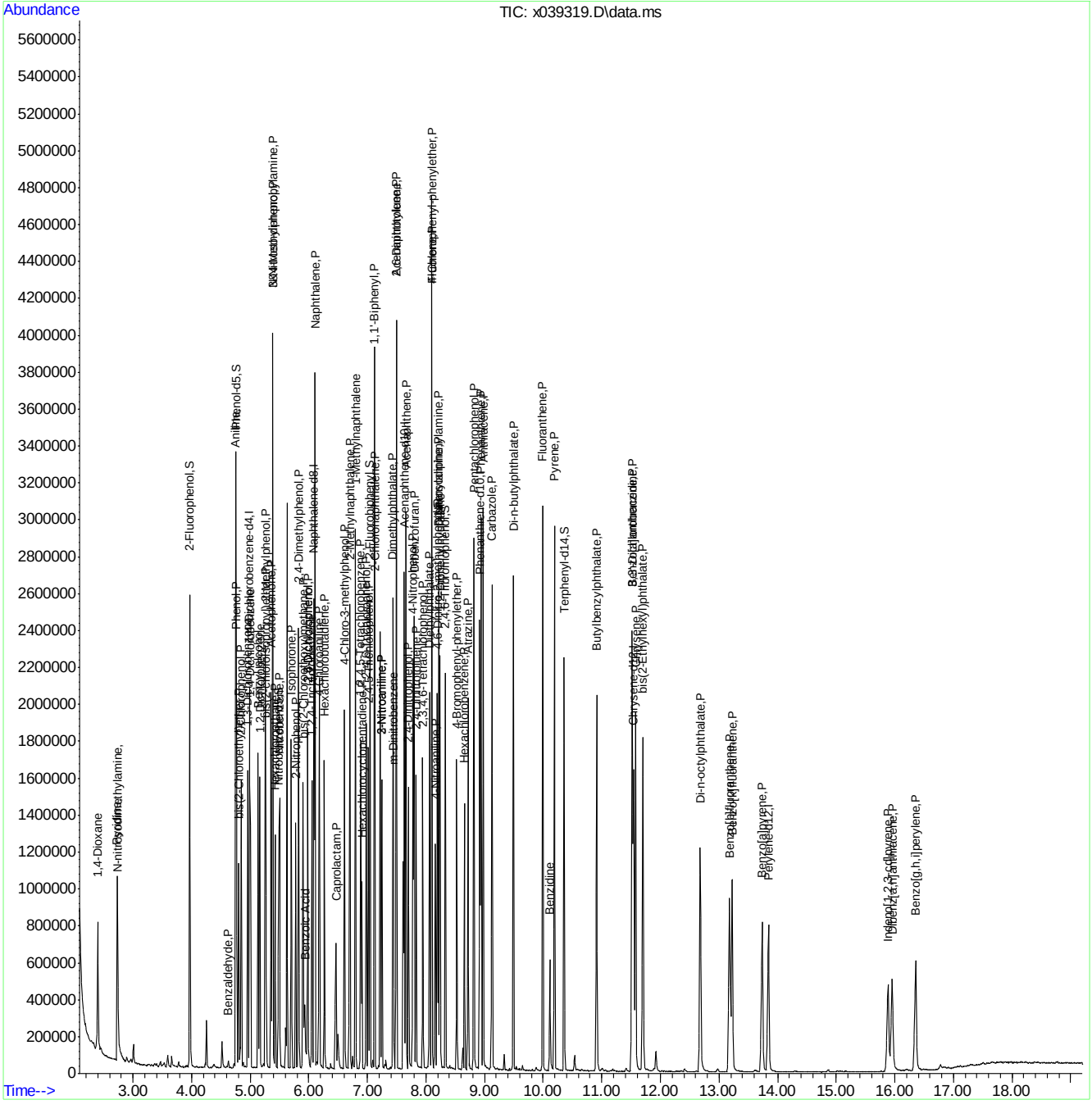
7.4.3

7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\sx1828\
Data File : x039319.D
Acq On : 1 Apr 2015 4:52 pm
Operator : marthav
Sample : op55531-ms
Misc : op55531,sx1828,29.8,,,1,1,soil
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Apr 02 09:36:14 2015
Quant Method : C:\msdchem\1\METHODS\8270d_03302.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Tue Mar 31 09:29:41 2015
Response via : Initial Calibration



ACCUTEST LABORATORIES FA23189

Manual Integration Approval Summary

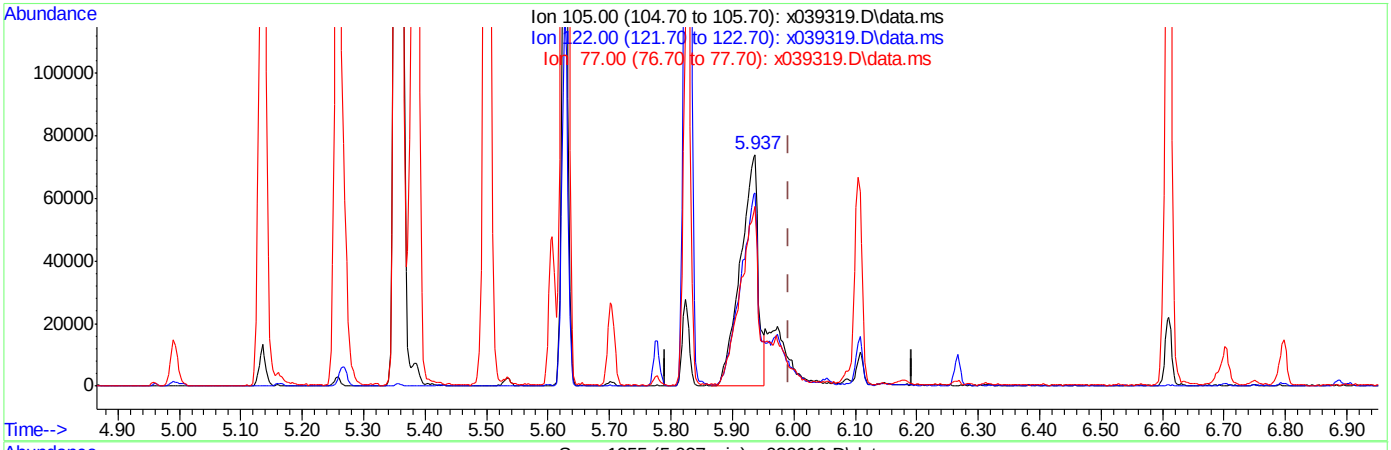
Sample Number:	OP55531-MS	**Method:**	SW846 8270D
Lab FileID:	X039319.D	**Analyst approved:**	04/02/15 10:06 Martha Valls
Injection Time:	04/01/15 16:52	**Supervisor approved:**	04/02/15 14:34 Mike Eger

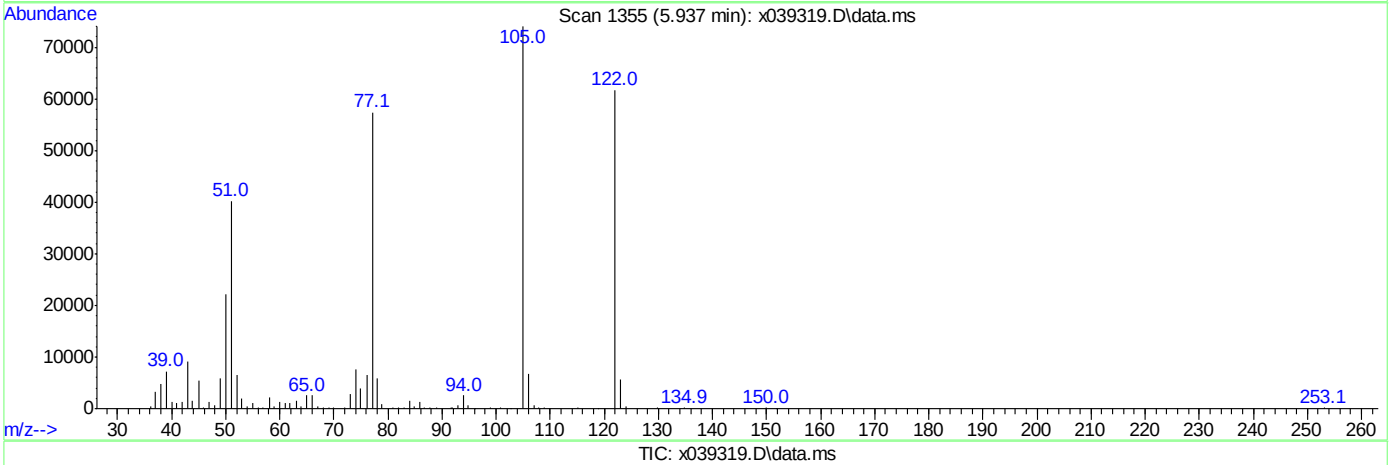
Parameter	CAS	Sig#	R.T. (min.)	Reason
Benzoic Acid	65-85-0		5.94	Split peak
Caprolactam	105-60-2		6.47	Split peak

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\sx1828\
Data File : x039319.D
Acq On : 1 Apr 2015 4:52 pm
Operator : marthav
Sample : op55531-ms
Misc : op55531,sx1828,29.8,,,1,1,soil
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Apr 02 07:56:24 2015
Quant Method : C:\msdchem\1\METHODS\8270d_03302.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Tue Mar 31 09:29:41 2015
Response via : Initial Calibration





TIC: x039319.D\data.ms

(29) Benzoic Acid

5.937min (-0.056) 22.10ppm

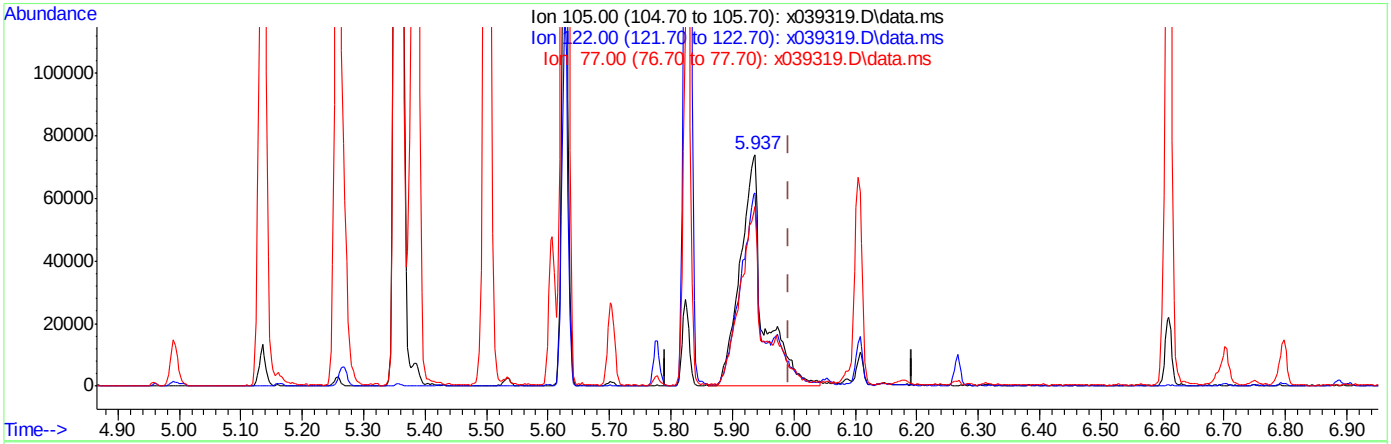
response 147835

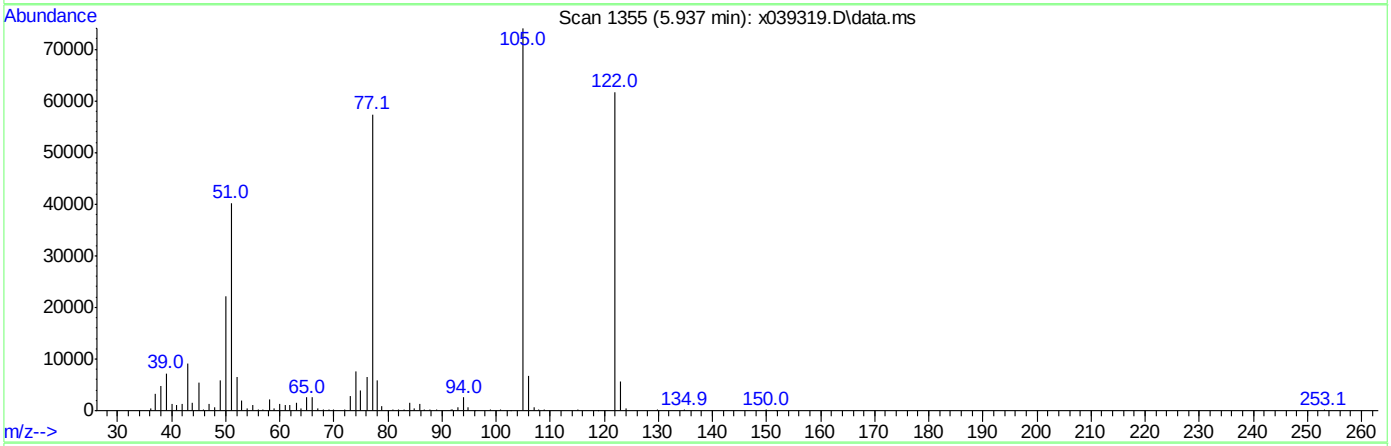
Ion	Exp%	Act%
105.00	100	100
122.00	83.70	82.31
77.00	75.60	75.96
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\sx1828\
Data File : x039319.D
Acq On : 1 Apr 2015 4:52 pm
Operator : marthav
Sample : op55531-ms
Misc : op55531,sx1828,29.8,,,1,1,soil
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Apr 02 07:56:24 2015
Quant Method : C:\msdchem\1\METHODS\8270d_03302.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Tue Mar 31 09:29:41 2015
Response via : Initial Calibration





TIC: x039319.D\data.ms

(29) Benzoic Acid

5.937min (-0.056) 29.18ppm m

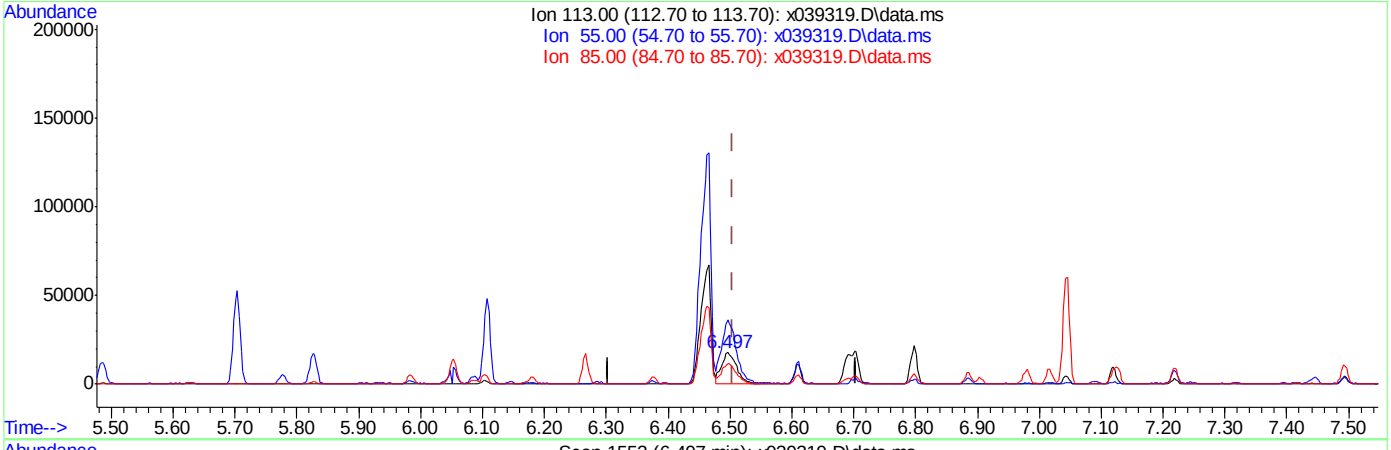
response 195195

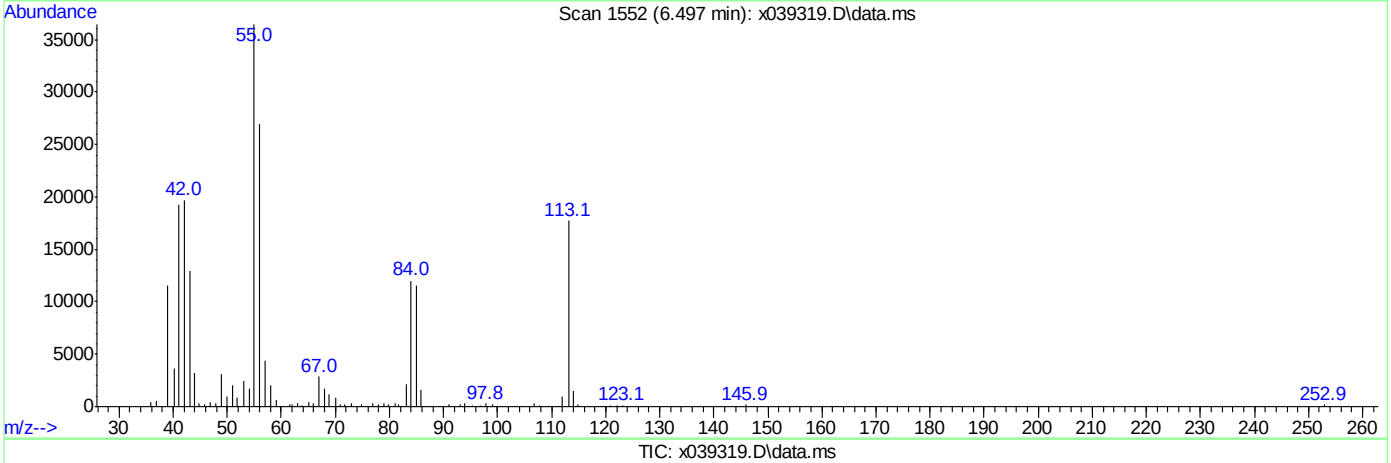
Ion	Exp%	Act%
105.00	100	100
122.00	83.70	83.30
77.00	75.60	77.53
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\sx1828\
Data File : x039319.D
Acq On : 1 Apr 2015 4:52 pm
Operator : marthav
Sample : op55531-ms
Misc : op55531,sx1828,29.8,,,1,1,soil
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Apr 02 07:56:24 2015
Quant Method : C:\msdchem\1\METHODS\8270d_03302.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Tue Mar 31 09:29:41 2015
Response via : Initial Calibration





TIC: x039319.D\data.ms

(36) Caprolactam (P)

6.497min (-0.008) 10.29ppm

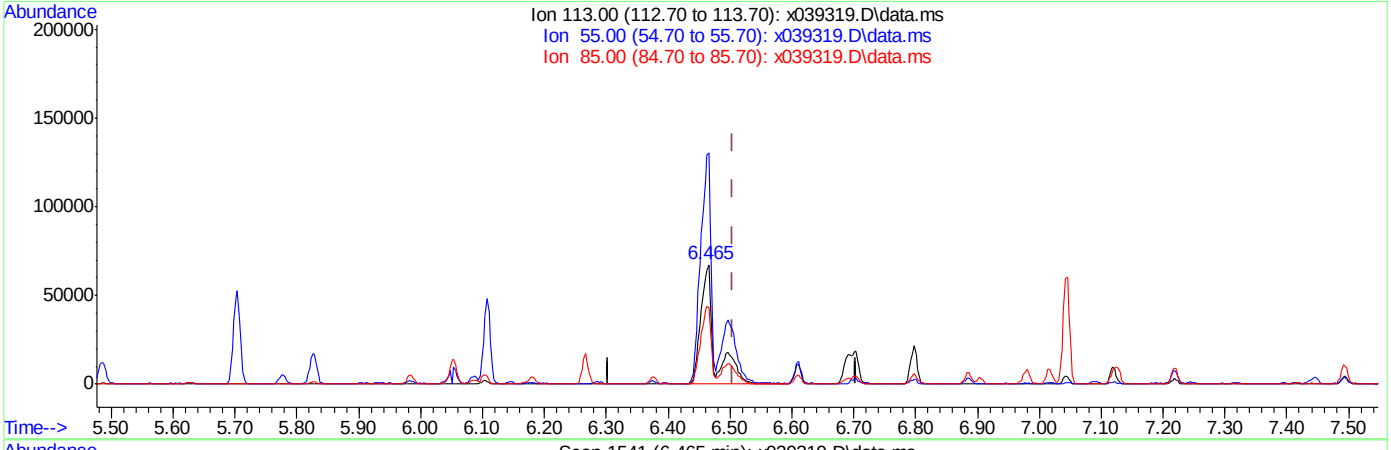
response 29648

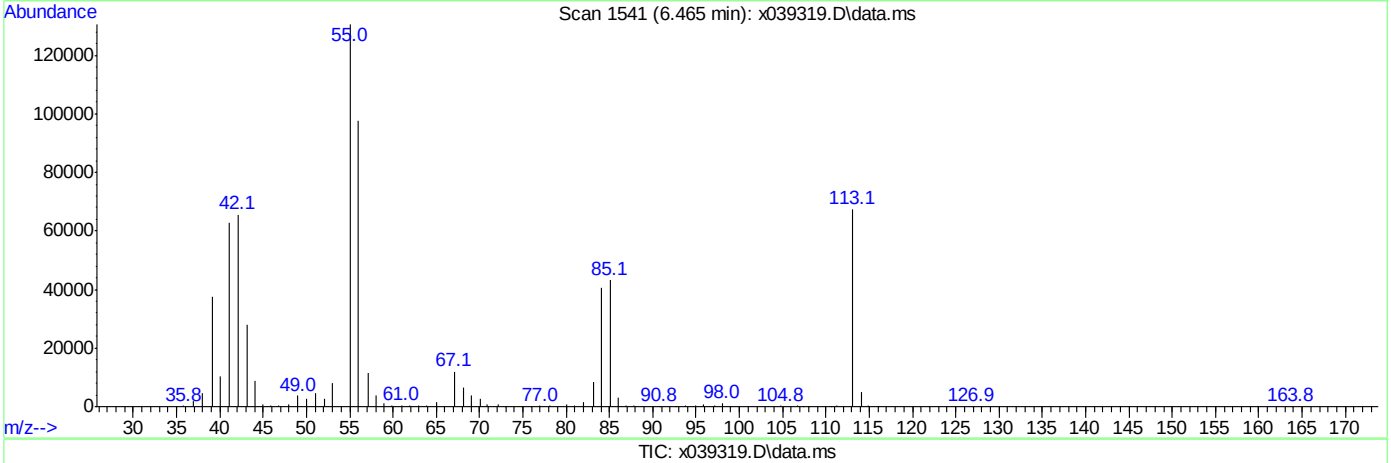
Ion	Exp%	Act%
113.00	100	100
55.00	179.50	205.86
85.00	64.50	62.51
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\sx1828\
Data File : x039319.D
Acq On : 1 Apr 2015 4:52 pm
Operator : marthav
Sample : op55531-ms
Misc : op55531,sx1828,29.8,,,1,1,soil
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Apr 02 07:56:24 2015
Quant Method : C:\msdchem\1\METHODS\8270d_03302.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Tue Mar 31 09:29:41 2015
Response via : Initial Calibration





TIC: x039319.D\data.ms

(36) Caprolactam (P)

6.465min (-0.039) 37.30ppm m

response 107443

Ion	Exp%	Act%
113.00	100	100
55.00	179.50	193.61
85.00	64.50	64.04
0.00	0.00	0.00

Manual Integrations APPROVED (compounds with "m" flag)
Mike Eger
04/02/15 14:34

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\sx1828\
Data File : x039320.D
Acq On : 1 Apr 2015 5:16 pm
Operator : marthav
Sample : op55531-msd
Misc : op55531,sx1828,30.3,,,1,1,soil
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Apr 02 09:36:49 2015
Quant Method : C:\msdchem\1\METHODS\8270d_03302.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Tue Mar 31 09:29:41 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.991	152	238273	40.00	ppm	0.00
22) Naphthalene-d8	6.088	136	921911	40.00	ppm	0.00
41) Acenaphthene-d10	7.631	164	487910	40.00	ppm	0.00
67) Phenanthrene-d10	8.918	188	752130	40.00	ppm	0.00
83) Chrysene-d12	11.543	240	655940	40.00	ppm	0.00
92) Perylene-d12	13.845	264	446715	40.00	ppm	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	3.968	112	623424	73.08	ppm	0.00
Spiked Amount 100.000	Range 40 - 102		Recovery = 73.08%			
9) Phenol-d5	4.758	99	786758	90.68	ppm	0.00
Spiked Amount 100.000	Range 41 - 100		Recovery = 90.68%			
23) Nitrobenzene-d5	5.485	82	365857	37.47	ppm	0.00
Spiked Amount 50.000	Range 40 - 105		Recovery = 74.94%			
45) 2-Fluorobiphenyl	7.045	172	664032	40.15	ppm	0.00
Spiked Amount 50.000	Range 43 - 107		Recovery = 80.30%			
72) 2,4,6-Tribromophenol	8.332	330	145854	86.33	ppm	0.00
Spiked Amount 100.000	Range 42 - 108		Recovery = 86.33%			
86) Terphenyl-d14	10.358	244	672660	44.88	ppm	0.01
Spiked Amount 50.000	Range 45 - 119		Recovery = 89.76%			
Target Compounds						Qvalue
2) 1,4-Dioxane	2.399	88	116317	31.11	ppm #	73
3) N-nitrosodimethylamine	2.740	42	180924	33.27	ppm	99
4) Pyridine	2.732	79	237296	23.88	ppm	99
6) Benzaldehyde	4.630	106	7577	0.82	ppm	95
7) Aniline	4.752	93	427885	33.93	ppm	82
8) bis(2-Chloroethyl)ether	4.803	93	288980	35.29	ppm	96
10) Phenol	4.766	94	452838	39.89	ppm	99
11) 2-Chlorophenol	4.849	128	351758	38.49	ppm	98
12) 1,3-Dichlorobenzene	4.960	146	315011	32.44	ppm	97
13) 1,4-Dichlorobenzene	5.005	146	323371	33.30	ppm	98
14) 1,2-Dichlorobenzene	5.164	146	303810	32.83	ppm	98
15) Benzyl alcohol	5.136	108	235465	40.15	ppm	97
16) 2-Methylphenol	5.258	108	306891	38.57	ppm	97
17) bis(2-chloroisopropyl)...	5.266	45	526755	33.09	ppm	90
18) Acetophenone	5.357	105	494672	41.12	ppm	96
19) N-Nitroso-di-n-propyla...	5.386	70	171002	36.32	ppm	98
20) 3&4-Methylphenol	5.386	108	668142	80.02	ppm	99
21) Hexachloroethane	5.426	117	130832	32.90	ppm	95
24) Nitrobenzene	5.502	77	338913	36.66	ppm	99
25) Isophorone	5.704	82	624071	36.90	ppm	97
26) 2-Nitrophenol	5.778	139	192013	40.04	ppm	98
27) 2,4-Dimethylphenol	5.826	107	371672	42.47	ppm	99
28) bis(2-Chloroethoxy)met...	5.903	93	360012	37.49	ppm	97
29) Benzoic Acid	5.931	105	172209m	25.87	ppm	
30) 2,4-Dichlorophenol	5.985	162	287788	40.74	ppm	99
31) 1,2,4-Trichlorobenzene	6.054	180	243952	33.88	ppm	98
32) Naphthalene	6.105	128	905718	38.11	ppm	90

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\sx1828\
Data File : x039320.D
Acq On : 1 Apr 2015 5:16 pm
Operator : marthav
Sample : op55531-msd
Misc : op55531,sx1828,30.3,,,1,1,soil
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Apr 02 09:36:49 2015
Quant Method : C:\msdchem\1\METHODS\8270d_03302.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Tue Mar 31 09:29:41 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
33) 4-Chloroaniline	6.176	127	378118	34.45	ppm		97
34) 2,6-Dichlorophenol	5.985	162	287788	40.74	ppm		99
35) Hexachlorobutadiene	6.267	225	150332	37.36	ppm		95
36) Caprolactam	6.466	113	108988m	38.03	ppm		
37) 4-Chloro-3-methylphenol	6.610	107	323401	42.23	ppm		98
38) 2-Methylnaphthalene	6.704	142	630198	37.36	ppm		96
39) 1-Methylnaphthalene	6.798	142	704166	47.01	ppm		98
40) 1,2,4,5-Tetrachloroben...	6.886	216	258642	36.76	ppm		95
42) Hexachlorocyclopentadiene	6.906	237	118479	27.10	ppm		99
43) 2,4,6-Trichlorophenol	6.980	196	204419	44.27	ppm		98
44) 2,4,5-Trichlorophenol	7.017	196	207258	42.12	ppm		98
46) 1,1'-Biphenyl	7.119	154	736588	39.63	ppm		89
47) 2-Chloronaphthalene	7.128	162	557623	38.82	ppm		94
48) 2-Nitroaniline	7.247	65	228221	42.41	ppm		95
50) Dimethylphthalate	7.440	163	694650	42.95	ppm		96
51) m-Dinitrobenzene	7.446	168	105581	38.63	ppm		80
52) 2,6-Dinitrotoluene	7.494	165	156928	41.38	ppm		82
54) Acenaphthylene	7.494	152	962309	42.55	ppm		89
55) 3-Nitroaniline	7.247	138	233632	43.02	ppm		97
56) Acenaphthene	7.659	153	619075	42.53	ppm		96
57) 2,4-Dinitrophenol	7.702	184	143874	63.41	ppm		99
58) 4-Nitrophenol	7.781	109	215031	82.50	ppm		93
59) Dibenzofuran	7.798	168	808635	39.81	ppm		87
60) 2,4-Dinitrotoluene	7.835	165	214226	41.48	ppm		88
62) 2,3,4,6-Tetrachlorophenol	7.949	232	152854	40.27	ppm		95
63) Diethylphthalate	8.062	149	706399	42.30	ppm		93
64) Fluorene	8.099	166	720528	43.32	ppm		99
65) 4-Chlorophenyl-phenyle...	8.102	204	309772	41.19	ppm		90
66) 4-Nitroaniline	8.159	138	172620	42.67	ppm		95
68) 4,6-Dinitro-2-methylph...	8.196	198	231932	76.34	ppm	#	64
69) Diphenylamine	8.216	169	509603	36.51	ppm		97
70) n-Nitrosodiphenylamine	8.216	169	509603	43.81	ppm		97
71) 1,2-Diphenylhydrazine	8.241	77	701657	41.20	ppm		88
73) 4-Bromophenyl-phenylether	8.528	248	141919	36.12	ppm		93
74) Hexachlorobenzene	8.656	284	131007	34.72	ppm		86
76) Atrazine	8.719	200	176724	37.85	ppm		94
77) Pentachlorophenol	8.818	266	247410	101.58	ppm		98
78) Phenanthrene	8.940	178	961804	43.52	ppm		89
79) Anthracene	8.977	178	996309	45.20	ppm		88
80) Carbazole	9.125	167	911200	43.72	ppm		93
81) Di-n-butylphthalate	9.489	149	1148258	44.27	ppm		92
82) Fluoranthene	9.992	202	1015140	44.44	ppm		90
84) Benzidine	10.114	184	138993	14.44	ppm		100
85) Pyrene	10.194	202	1049028	43.26	ppm		90
87) Butylbenzylphthalate	10.912	149	506974	43.77	ppm		98
88) 3,3'-Dichlorobenzidine	11.520	252	205624	39.27	ppm		99
89) Benzo[a]anthracene	11.518	228	821331	43.40	ppm		98
90) Chrysene	11.577	228	798548	44.47	ppm		94
91) bis(2-Ethylhexyl)phtha...	11.702	149	678867	44.26	ppm		97
93) Di-n-octylphthalate	12.677	149	1030115	45.03	ppm		98

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\sx1828\
Data File : x039320.D
Acq On : 1 Apr 2015 5:16 pm
Operator : marthav
Sample : op55531-msd
Misc : op55531,sx1828,30.3,,,1,1,soil
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Apr 02 09:36:49 2015
Quant Method : C:\msdchem\1\METHODS\8270d_03302.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Tue Mar 31 09:29:41 2015
Response via : Initial Calibration

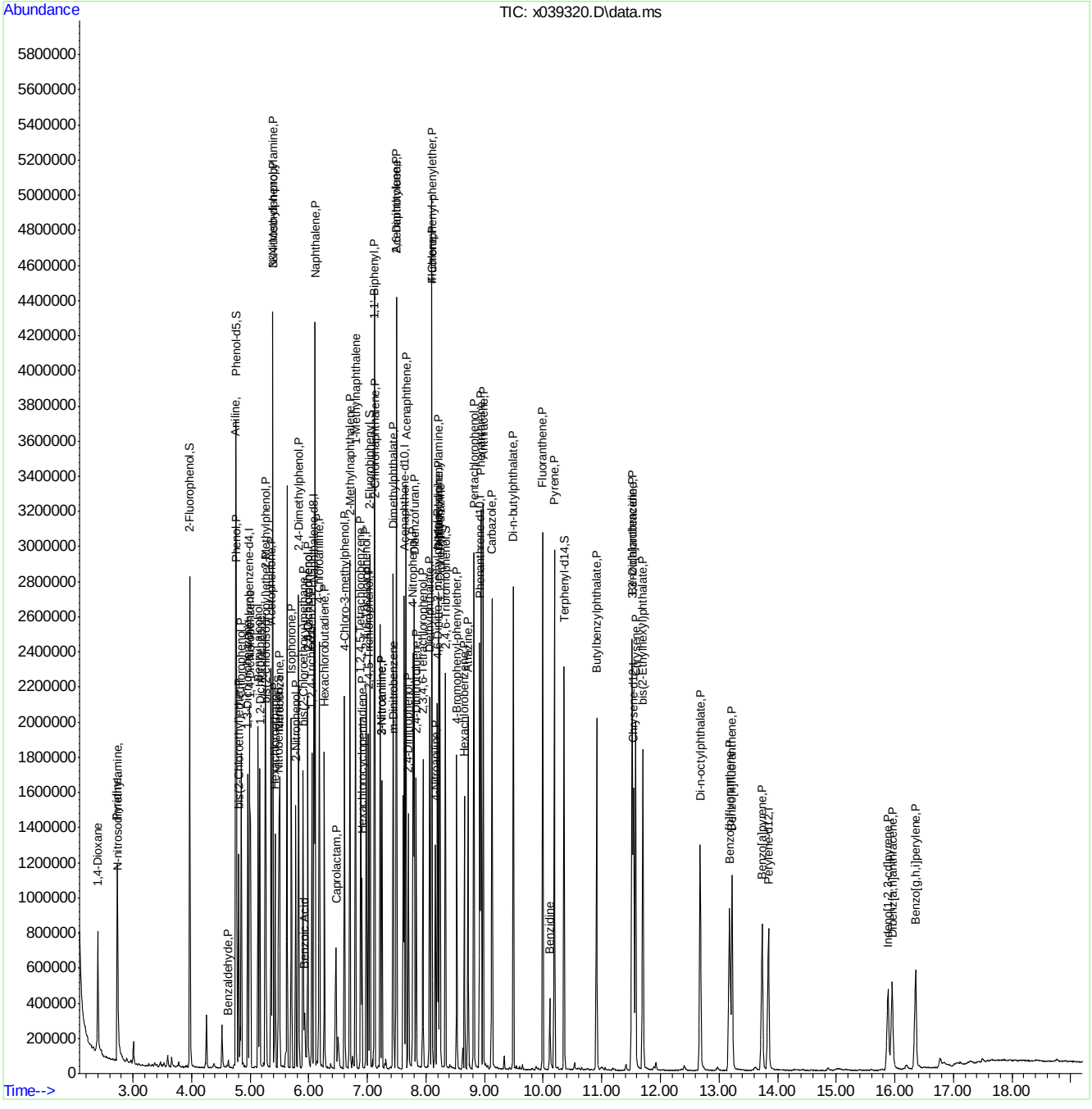
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
94) Benzo[b]fluoranthene	13.180	252	632179	44.16 ppm	99
95) Benzo[k]fluoranthene	13.223	252	636650	43.36 ppm	97
96) Benzo[a]pyrene	13.737	252	554782	43.19 ppm	99
97) Indeno[1,2,3-cd]pyrene	15.888	276	360338	41.59 ppm	97
98) Dibenz[a,h]anthracene	15.956	278	365464	45.07 ppm	97
99) Benzo[g,h,i]perylene	16.357	276	419142	43.92 ppm	97

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\sx1828\
Data File : x039320.D
Acq On : 1 Apr 2015 5:16 pm
Operator : marthav
Sample : op55531-msd
Misc : op55531,sx1828,30.3,,,1,1,soil
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Apr 02 09:36:49 2015
Quant Method : C:\msdchem\1\METHODS\8270d_03302.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Tue Mar 31 09:29:41 2015
Response via : Initial Calibration



ACCUTEST LABORATORIES FA23189

Manual Integration Approval Summary

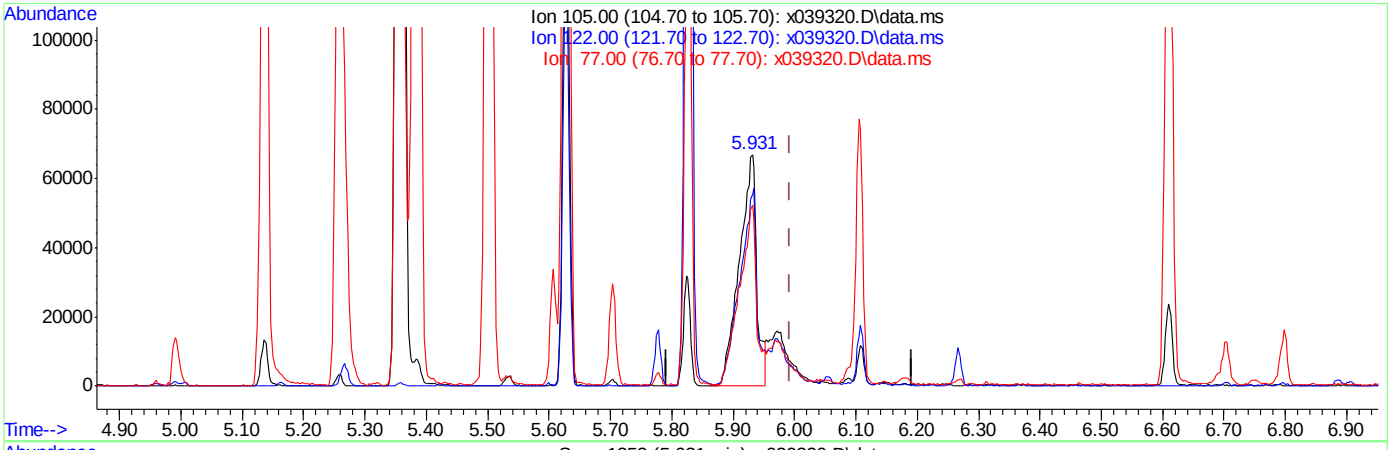
Sample Number:	OP55531-MSD	**Method:**	SW846 8270D
Lab FileID:	X039320.D	**Analyst approved:**	04/02/15 10:06 Martha Valls
Injection Time:	04/01/15 17:16	**Supervisor approved:**	04/02/15 14:34 Mike Eger

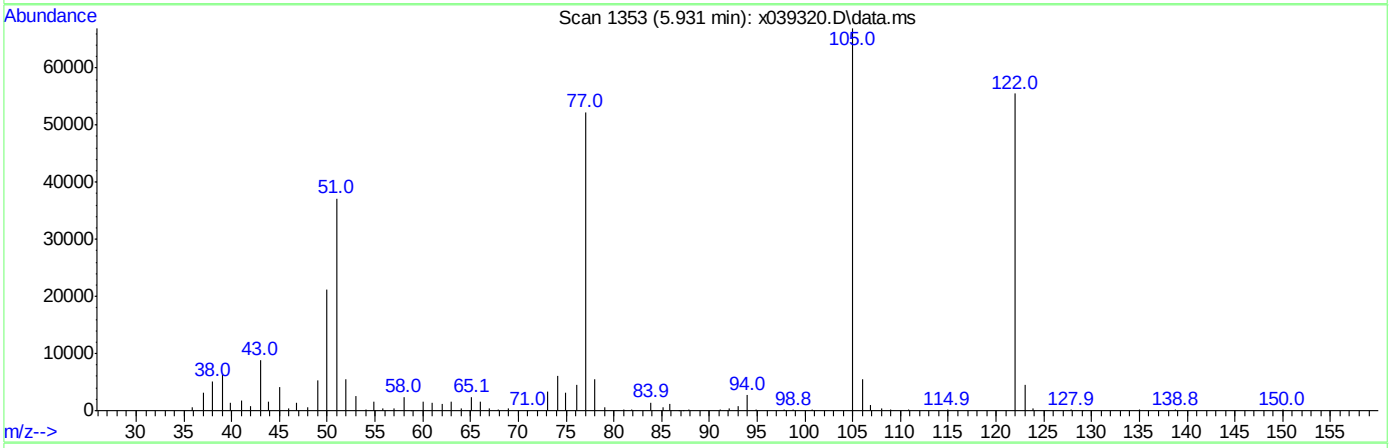
Parameter	CAS	Sig#	R.T. (min.)	Reason
Benzoic Acid	65-85-0		5.93	Split peak
Caprolactam	105-60-2		6.47	Split peak

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\sx1828\
Data File : x039320.D
Acq On : 1 Apr 2015 5:16 pm
Operator : marthav
Sample : op55531-msd
Misc : op55531,sx1828,30.3,,,1,1,soil
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Apr 02 07:56:26 2015
Quant Method : C:\msdchem\1\METHODS\8270d_03302.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Tue Mar 31 09:29:41 2015
Response via : Initial Calibration





(29) Benzoic Acid

5.931min (-0.061) 19.88ppm

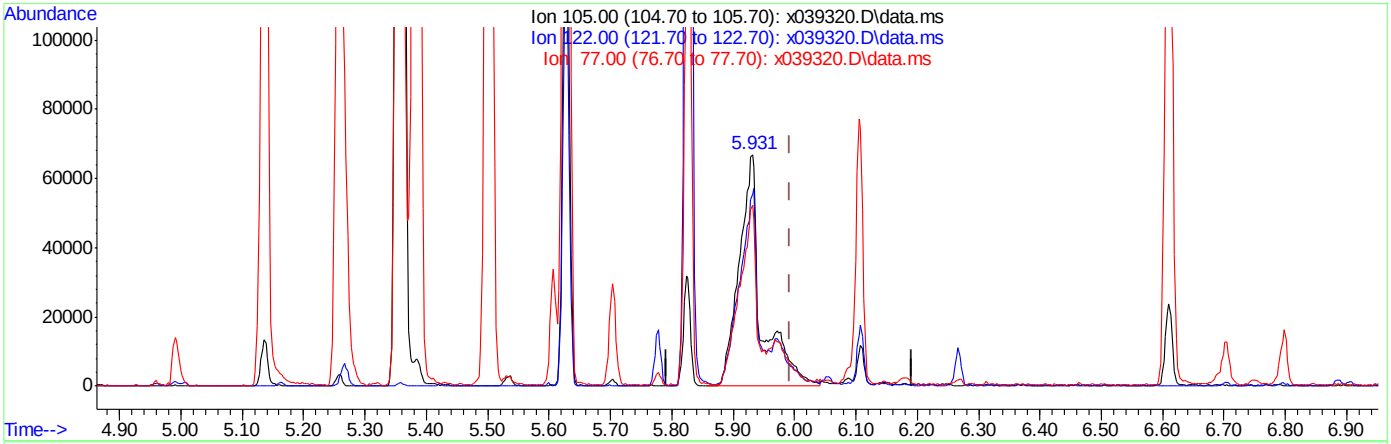
response 132297

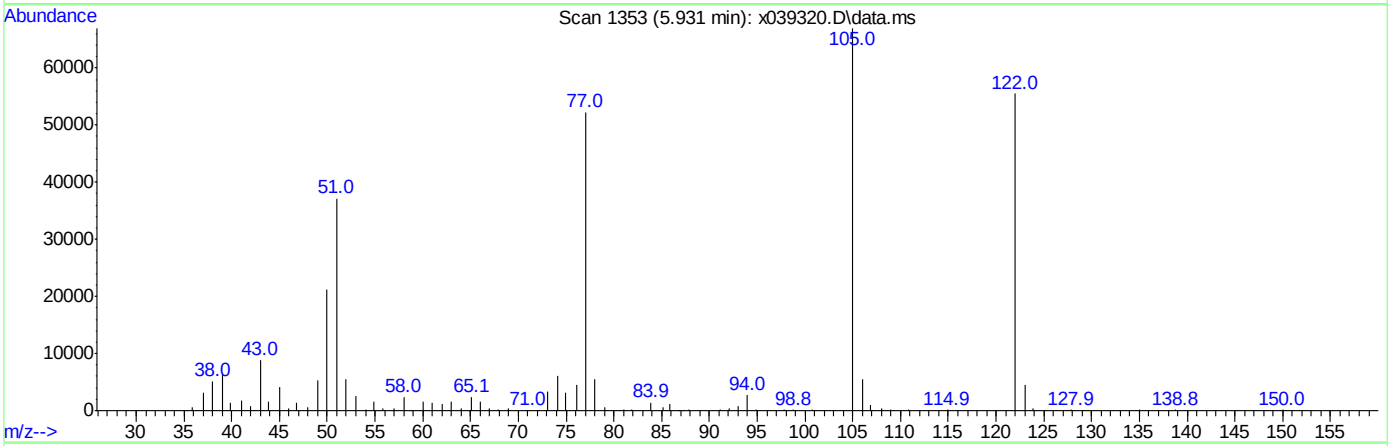
Ion	Exp%	Act%
105.00	100	100
122.00	83.70	82.26
77.00	75.60	77.58
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\sx1828\
Data File : x039320.D
Acq On : 1 Apr 2015 5:16 pm
Operator : marthav
Sample : op55531-msd
Misc : op55531,sx1828,30.3,,,1,1,soil
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Apr 02 07:56:26 2015
Quant Method : C:\msdchem\1\METHODS\8270d_03302.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Tue Mar 31 09:29:41 2015
Response via : Initial Calibration





TIC: x039320.D\data.ms

(29) Benzoic Acid

5.931min (-0.061) 25.87ppm m

response 172209

Ion	Exp%	Act%
105.00	100	100
122.00	83.70	82.90
77.00	75.60	78.16
0.00	0.00	0.00

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\DATA\sx1828\
Data File : x039320.D
Acq On    :  1 Apr 2015   5:16 pm
Operator  : marthav
Sample    : op55531-msd
Misc      : op55531,sx1828,30.3,,,1,1,soil
ALS Vial  : 19   Sample Multiplier: 1

Quant Time: Apr 02 07:56:26 2015
Quant Method : C:\msdchem\1\METHODS\8270d_03302.m
Quant Title  : SW846 8270D OR EPA 625
QLast Update : Tue Mar 31 09:29:41 2015
Response via : Initial Calibration
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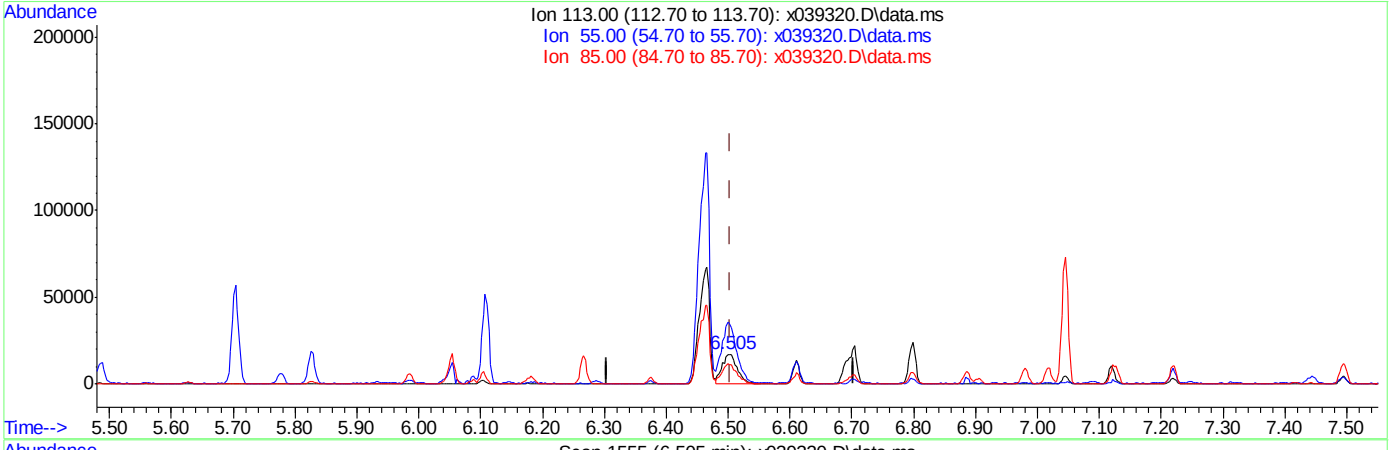
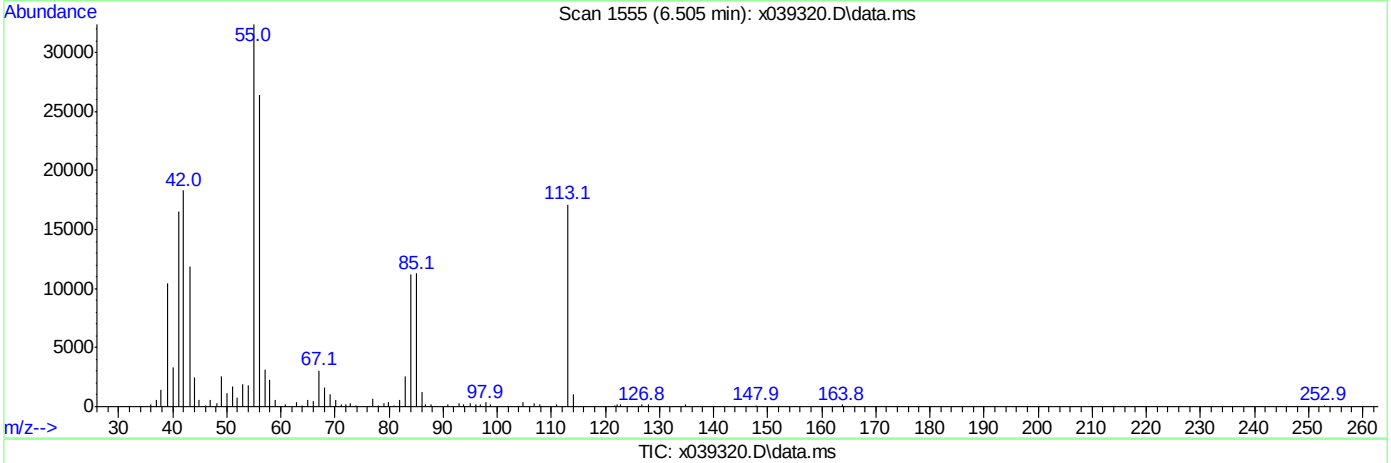




TIC: x039320.D\data.ms

(36) Caprolactam (P)

6.505min (+0.001) 10.06ppm

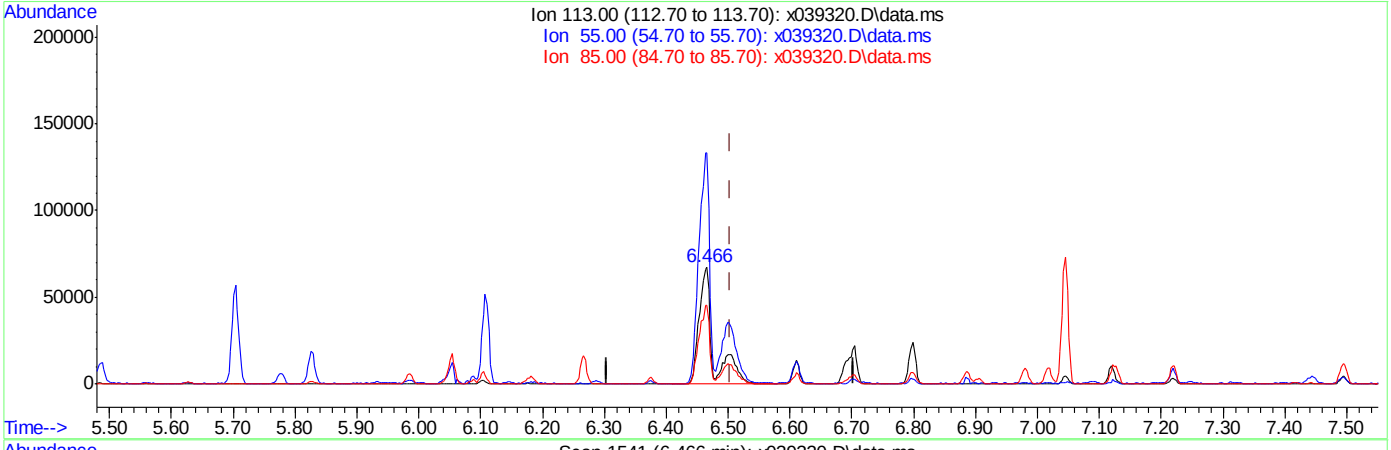
response 28840

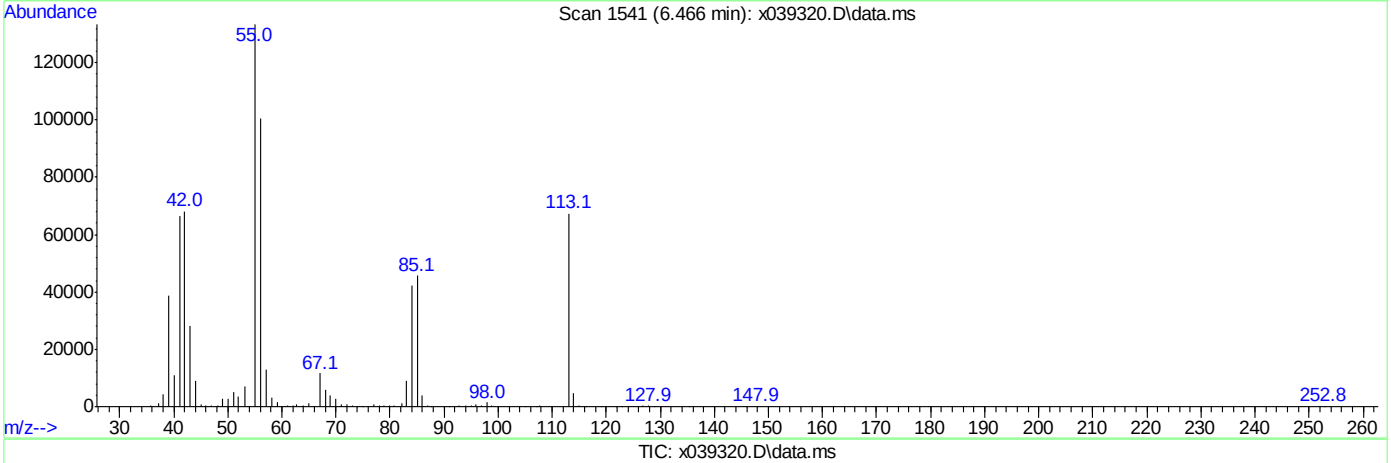
Ion	Exp%	Act%
113.00	100	100
55.00	179.50	183.39
85.00	64.50	64.58
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\sx1828\
Data File : x039320.D
Acq On : 1 Apr 2015 5:16 pm
Operator : marthav
Sample : op55531-msd
Misc : op55531,sx1828,30.3,,,1,1,soil
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Apr 02 07:56:26 2015
Quant Method : C:\msdchem\1\METHODS\8270d_03302.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Tue Mar 31 09:29:41 2015
Response via : Initial Calibration





TIC: x039320.D\data.ms

(36) Caprolactam (P)

6.466min (-0.039) 38.03ppm m

response 108988

Ion	Exp%	Act%
113.00	100	100
55.00	179.50	197.84
85.00	64.50	67.84
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\st810\
Data File : T017714.D
Acq On : 6 Apr 2015 2:19 pm
Operator : mayrag
Sample : op55540-ms
Misc : op55540,st810,120,,,1,1,water
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Apr 06 15:45:59 2015
Quant Method : C:\msdchem\1\METHODS\SIM_LV.M
Quant Title : PAH's by 8270 SIM
QLast Update : Mon Apr 06 14:20:40 2015
Response via : Initial Calibration

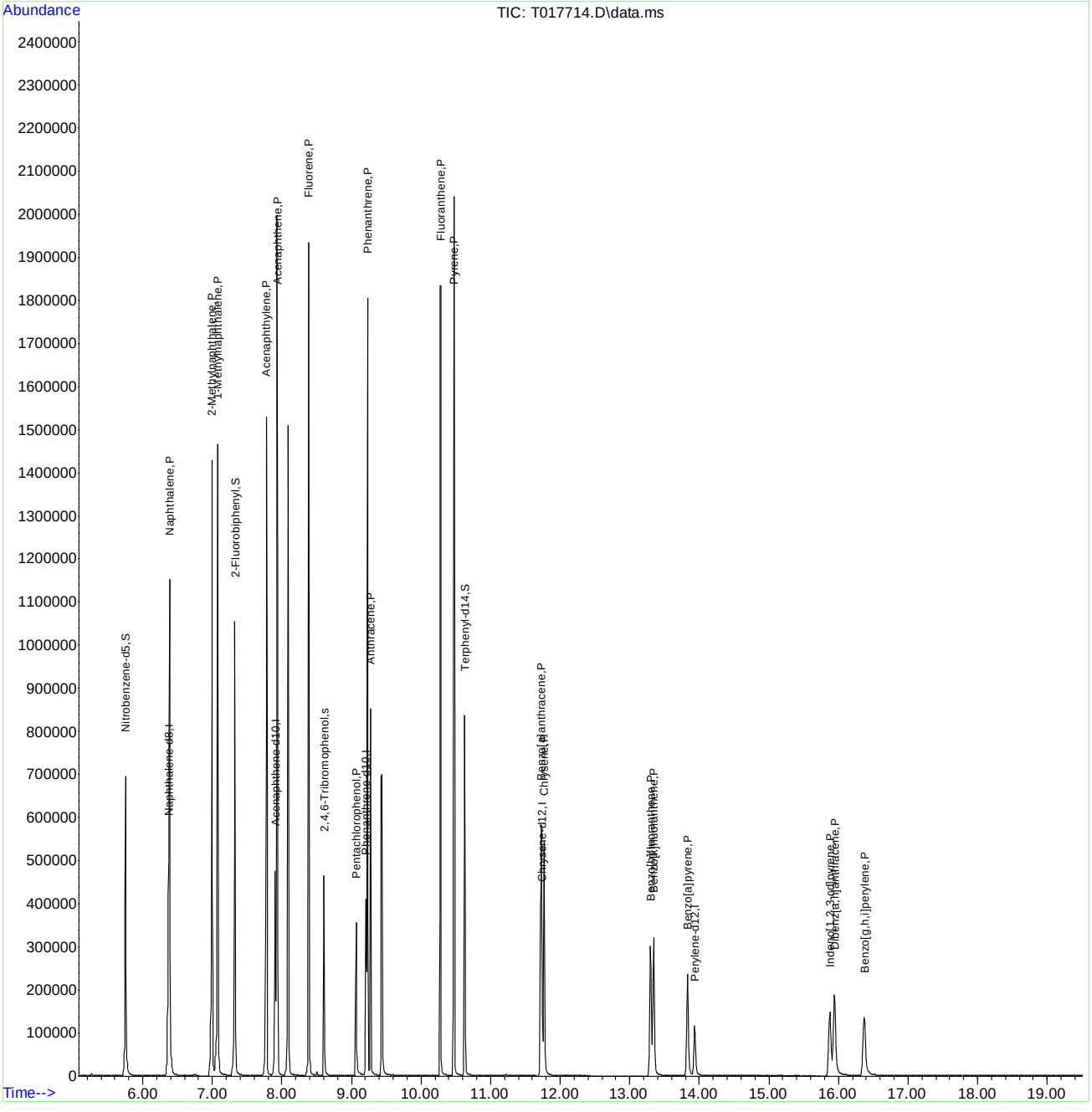
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Naphthalene-d8	6.369	136	295257	500.00	ppb	0.00
6) Acenaphthene-d10	7.904	164	148712	500.00	ppb	0.00
11) Phenanthrene-d10	9.208	188	246339	500.00	ppb	0.00
17) Chrysene-d12	11.740	240	195493	500.00	ppb	0.00
22) Perylene-d12	13.931	264	142048	500.00	ppb	0.00
System Monitoring Compounds						
2) Nitrobenzene-d5	5.753	82	383329	1405.56	ppb	0.00
Spiked Amount 2000.000	Range 38 - 126		Recovery = 70.28%			
7) 2-Fluorobiphenyl	7.324	172	684666	1412.66	ppb	0.00
Spiked Amount 2000.000	Range 41 - 109		Recovery = 70.63%			
12) 2,4,6-Tribromophenol	8.606	330	151919	2554.62	ppb	0.00
Spiked Amount 4000.000	Range 33 - 118		Recovery = 63.87%			
19) Terphenyl-d14	10.625	244	560197	1488.62	ppb	0.00
Spiked Amount 2000.000	Range 46 - 135		Recovery = 74.43%			
Target Compounds						Qvalue
3) Naphthalene	6.387	128	999358	1367.76	ppb	100
4) 2-Methylnaphthalene	6.996	142	615763	1379.65	ppb	99
5) 1-Methylnaphthalene	7.080	142	620737	1472.67	ppb	99
8) Acenaphthylene	7.781	152	1006318	1464.87	ppb	99
9) Acenaphthene	7.933	153	631072	1503.58	ppb	97
10) Fluorene	8.388	166	720656	1610.60	ppb	99
13) Pentachlorophenol	9.066	266	113262	6280.47	ppb	99
14) Phenanthrene	9.228	178	1037029	1599.06	ppb	99
15) Anthracene	9.272	178	498171	722.74	ppb	99
16) Fluoranthene	10.280	202	1057009	1662.19	ppb	97
18) Pyrene	10.473	202	1049283	1469.28	ppb	95
20) Benzo[a]anthracene	11.727	228	410705	789.68	ppb	100
21) Chrysene	11.770	228	429325	849.73	ppb	99
23) Benzo[b]fluoranthene	13.297	252	350779	863.41	ppb	99
24) Benzo[k]fluoranthene	13.342	252	372851	856.19	ppb	99
25) Benzo[a]pyrene	13.831	252	294652	783.02	ppb	99
26) Indeno[1,2,3-cd]pyrene	15.875	276	208616	738.46	ppb	97
27) Dibenz[a,h]anthracene	15.943	278	216981	738.05	ppb	97
28) Benzo[g,h,i]perylene	16.372	276	239225	752.33	ppb	97

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\st810\
Data File : T017714.D
Acq On : 6 Apr 2015 2:19 pm
Operator : mayrag
Sample : op55540-ms
Misc : op55540,st810,120,,,1,1,water
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Apr 06 15:45:59 2015
Quant Method : C:\msdchem\1\METHODS\SIM_LV.M
Quant Title : PAH's by 8270 SIM
QLast Update : Mon Apr 06 14:20:40 2015
Response via : Initial Calibration



SIM_LV.M Mon Apr 06 15:52:21 2015 Page: 2

ACCUTEST LABORATORIES FA23189

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\st810\
Data File : T017715.D
Acq On : 6 Apr 2015 2:49 pm
Operator : mayrag
Sample : op55540-msd
Misc : op55540,st810,120,,,1,1,water
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Apr 06 15:46:01 2015
Quant Method : C:\msdchem\1\METHODS\SIM_LV.M
Quant Title : PAH's by 8270 SIM
QLast Update : Mon Apr 06 14:20:40 2015
Response via : Initial Calibration

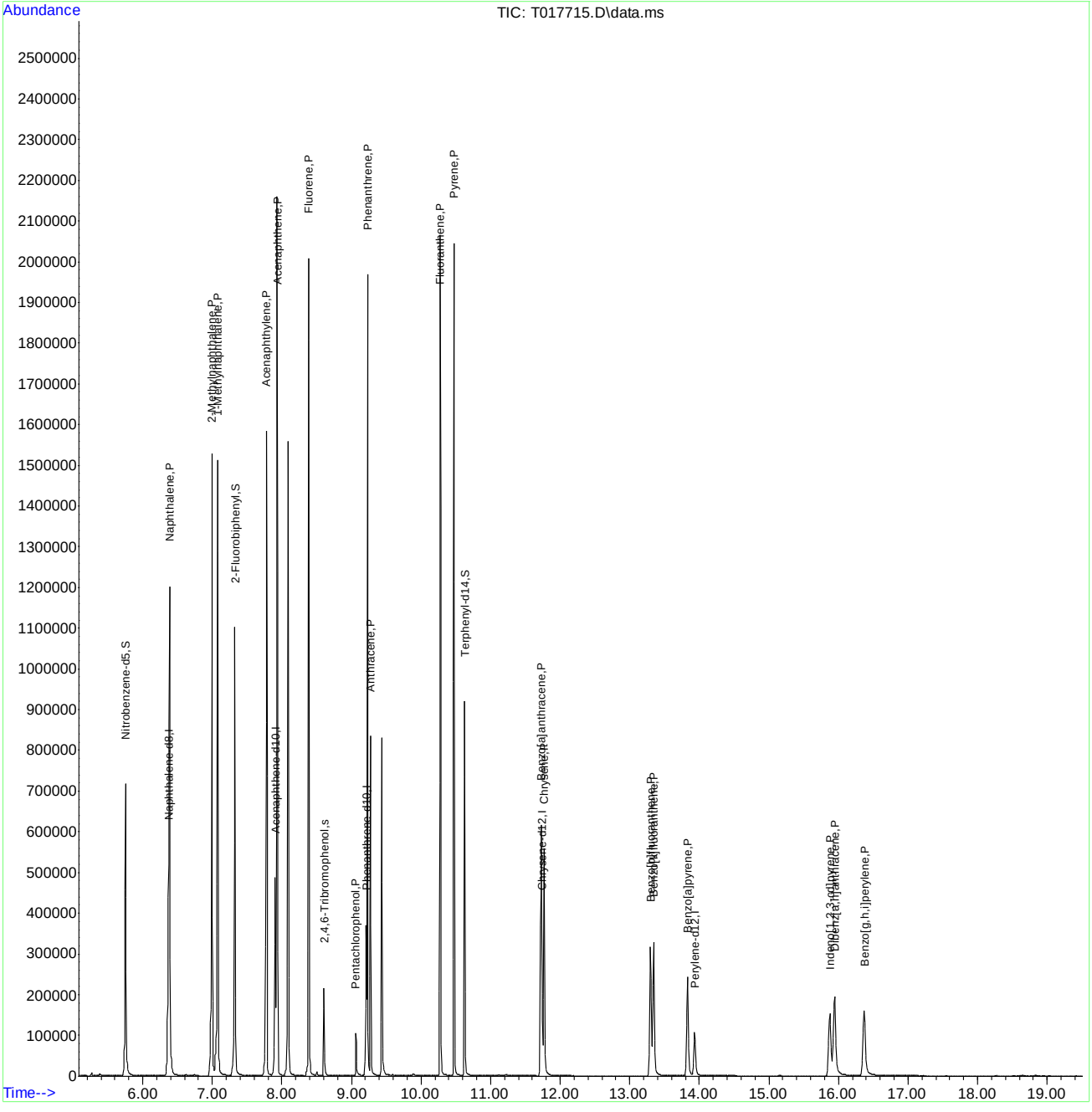
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Naphthalene-d8	6.369	136	293741	500.00	ppb	0.00
6) Acenaphthene-d10	7.904	164	147954	500.00	ppb	0.00
11) Phenanthrene-d10	9.211	188	239070	500.00	ppb	0.00
17) Chrysene-d12	11.740	240	188586	500.00	ppb	0.00
22) Perylene-d12	13.932	264	134320	500.00	ppb	0.00
System Monitoring Compounds						
2) Nitrobenzene-d5	5.753	82	401805	1480.91	ppb	0.00
Spiked Amount 2000.000	Range 38 - 126		Recovery = 74.05%			
7) 2-Fluorobiphenyl	7.325	172	708518	1469.36	ppb	0.00
Spiked Amount 2000.000	Range 41 - 109		Recovery = 73.47%			
12) 2,4,6-Tribromophenol	8.606	330	75109	1298.11	ppb	0.00
Spiked Amount 4000.000	Range 33 - 118		Recovery = 32.45%#			
19) Terphenyl-d14	10.627	244	585862	1613.83	ppb	0.00
Spiked Amount 2000.000	Range 46 - 135		Recovery = 80.69%			
Target Compounds						Qvalue
3) Naphthalene	6.387	128	1052176	1447.48	ppb	99
4) 2-Methylnaphthalene	6.996	142	645395	1453.51	ppb	98
5) 1-Methylnaphthalene	7.080	142	647046	1543.01	ppb	98
8) Acenaphthylene	7.781	152	1062775	1554.98	ppb	100
9) Acenaphthene	7.933	153	658609	1577.23	ppb	96
10) Fluorene	8.388	166	761782	1711.23	ppb	100
13) Pentachlorophenol	9.064	266	38069	2358.71	ppb	96
14) Phenanthrene	9.231	178	1082417	1719.80	ppb	98
15) Anthracene	9.275	178	519728	776.94	ppb	99
16) Fluoranthene	10.278	202	1103447	1787.98	ppb	99
18) Pyrene	10.475	202	1098450	1594.46	ppb	99
20) Benzo[a]anthracene	11.727	228	421232	839.58	ppb	99
21) Chrysene	11.770	228	434099	890.65	ppb	99
23) Benzo[b]fluoranthene	13.297	252	356669	928.41	ppb	100
24) Benzo[k]fluoranthene	13.342	252	376854	915.17	ppb	99
25) Benzo[a]pyrene	13.831	252	303854	853.93	ppb	99
26) Indeno[1,2,3-cd]pyrene	15.875	276	217567	814.46	ppb	96
27) Dibenz[a,h]anthracene	15.943	278	223117	802.59	ppb	97
28) Benzo[g,h,i]perylene	16.372	276	256906	854.42	ppb	97

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\st810\
Data File : T017715.D
Acq On : 6 Apr 2015 2:49 pm
Operator : mayrag
Sample : op55540-msd
Misc : op55540,st810,120,,,1,1,water
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Apr 06 15:46:01 2015
Quant Method : C:\msdchem\1\METHODS\SIM_LV.M
Quant Title : PAH's by 8270 SIM
QLast Update : Mon Apr 06 14:20:40 2015
Response via : Initial Calibration

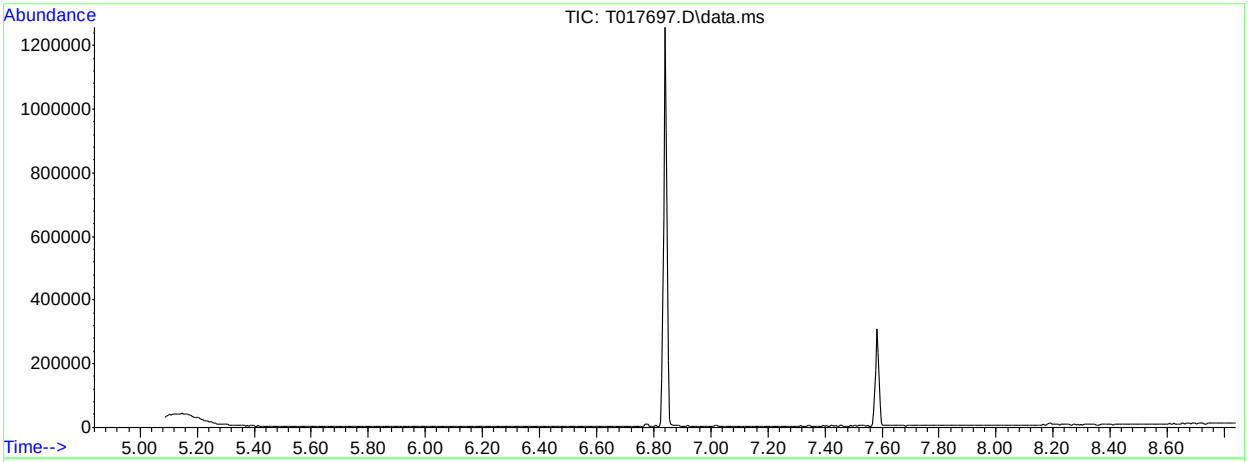


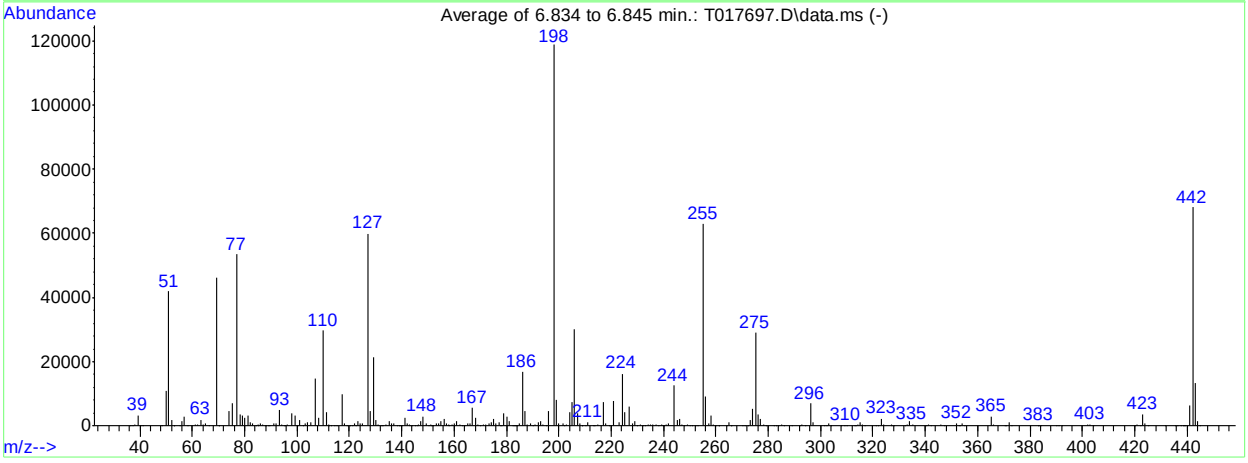
SIM_LV.M Mon Apr 06 15:52:23 2015 Page: 2

SW-846 Method 8270

Data File : C:\msdchem\1\DATA\st809\T017697.D Vial: 1
Acq On : 1 Apr 2015 1:13 pm Operator: mayrag
Sample : dftpp Inst : MSBNA06
Misc : op55409,st809,250,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : C:\msdchem\1\METHODS\dftpp.m (RTE Integrator)
Title : Tune Evaluation





AutoFind: Scans 328, 329, 330; Background Corrected with Scan 324

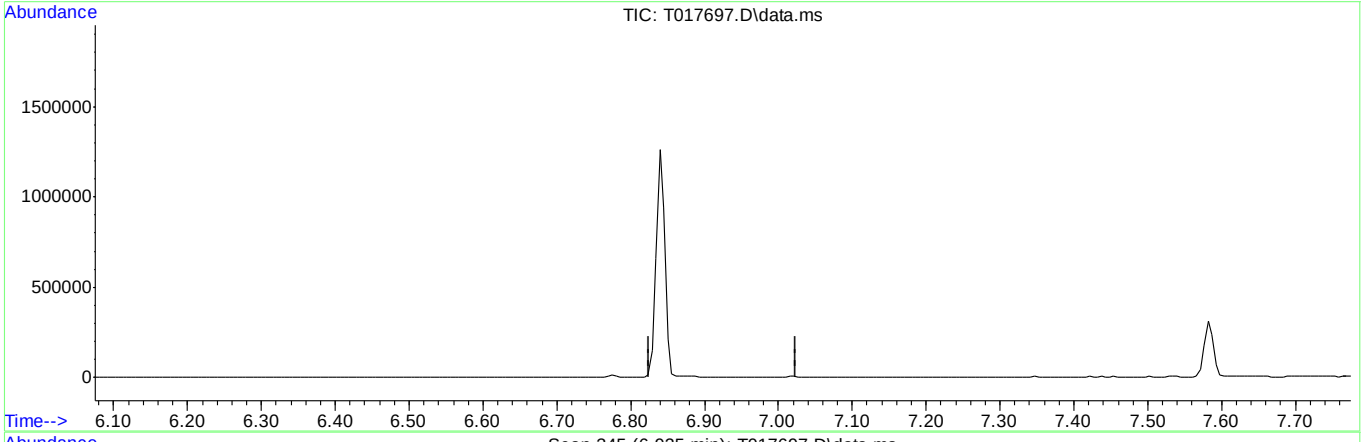
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	35.3	41981	PASS
68	69	0.00	2	0.0	0	PASS
69	198	0.00	100	39.0	46325	PASS
70	69	0.00	2	0.3	123	PASS
127	198	40	60	50.3	59784	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	118845	PASS
199	198	5	9	6.7	7986	PASS
275	198	10	30	24.5	29112	PASS
365	198	1	100	2.4	2815	PASS
441	443	0.01	100	48.7	6542	PASS
442	198	40	100	57.3	68149	PASS
443	442	17	23	19.7	13420	PASS

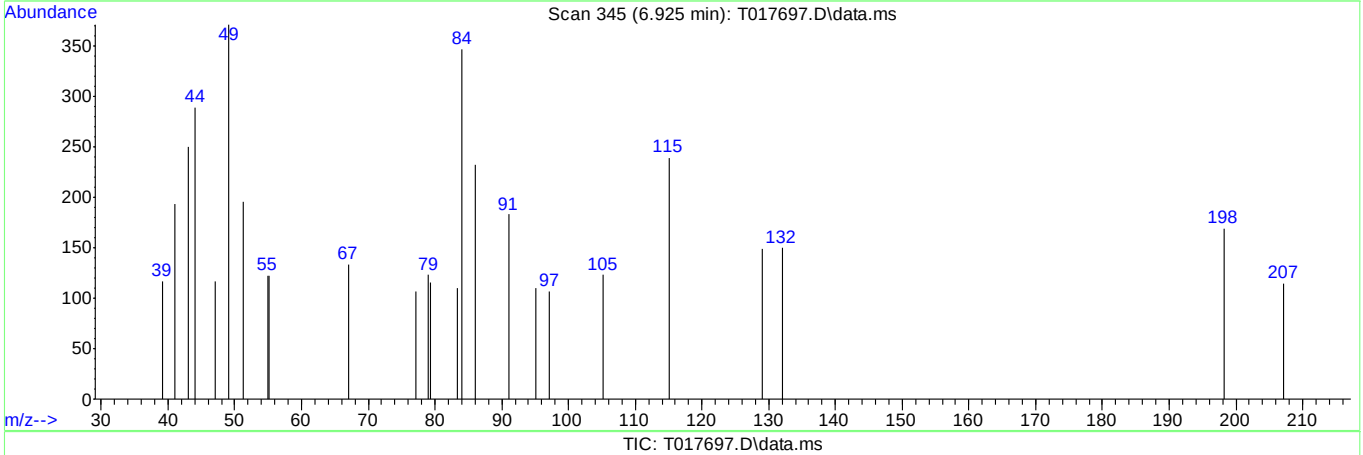
T017697.D dftpp.m Mon Apr 06 14:24:05 2015

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\DATA\st809\
Data File : T017697.D
Acq On    :  1 Apr 2015   1:13 pm
Operator  : mayrag
Sample    : dftpp
Misc      : op55409,st809,250,,,1,1,water
ALS Vial  : 1   Sample Multiplier: 1

Quant Time: Apr 06 14:24:00 2015
Quant Method : C:\msdchem\1\METHODS\dftpp.m
Quant Title  : Tune Evaluation
QLast Update : Thu Mar 26 14:49:44 2015
Response via : Initial Calibration
```





TIC: T017697.D\data.ms

(2) DFTPP

6.925min (-6.925) 0.00

response 0

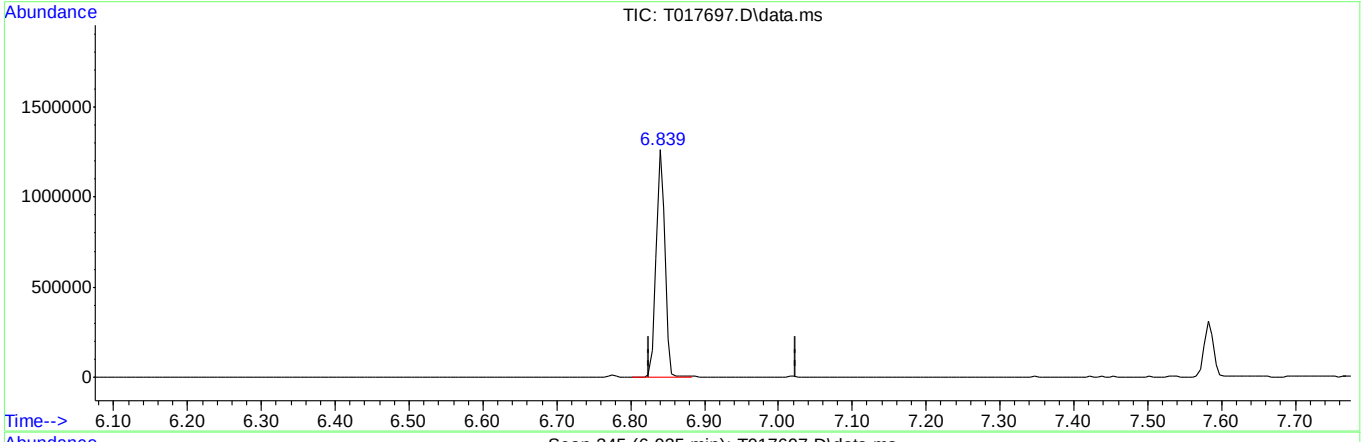
Signal	Exp%	Act%
TIC	100	0.00
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

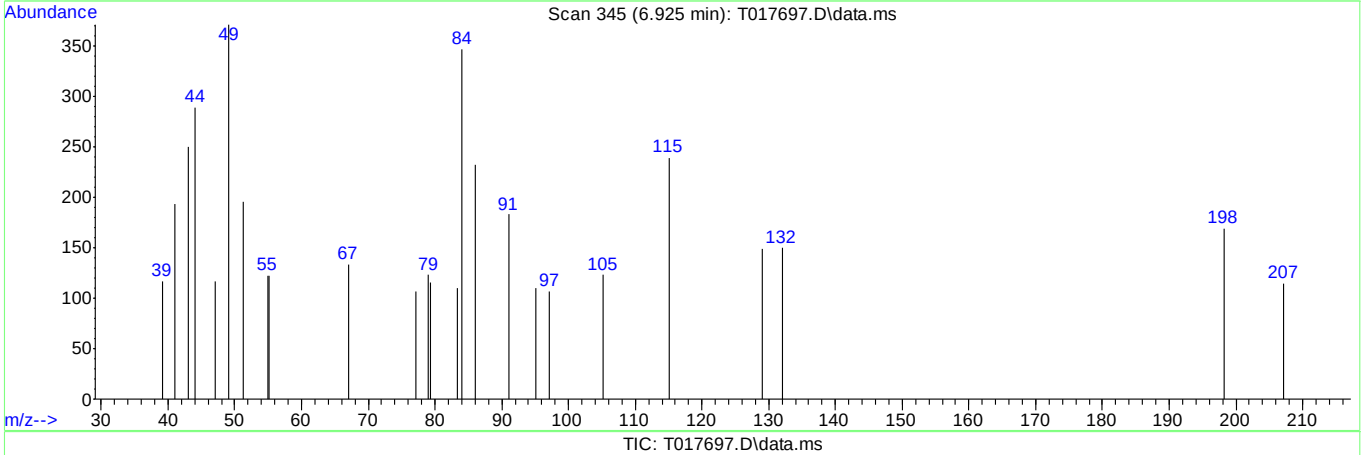
ACCUTEST LABORATORIES FA23189

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\DATA\st809\
Data File : T017697.D
Acq On    :  1 Apr 2015   1:13 pm
Operator  : mayrag
Sample    : dftpp
Misc      : op55409,st809,250,,,1,1,water
ALS Vial  : 1   Sample Multiplier: 1

Quant Time: Apr 06 14:24:00 2015
Quant Method : C:\msdchem\1\METHODS\dftpp.m
Quant Title  : Tune Evaluation
QLast Update : Thu Mar 26 14:49:44 2015
Response via : Initial Calibration
```





TIC: T017697.D\data.ms

(2) DFTPP

6.839min (-0.086) 37.09 m

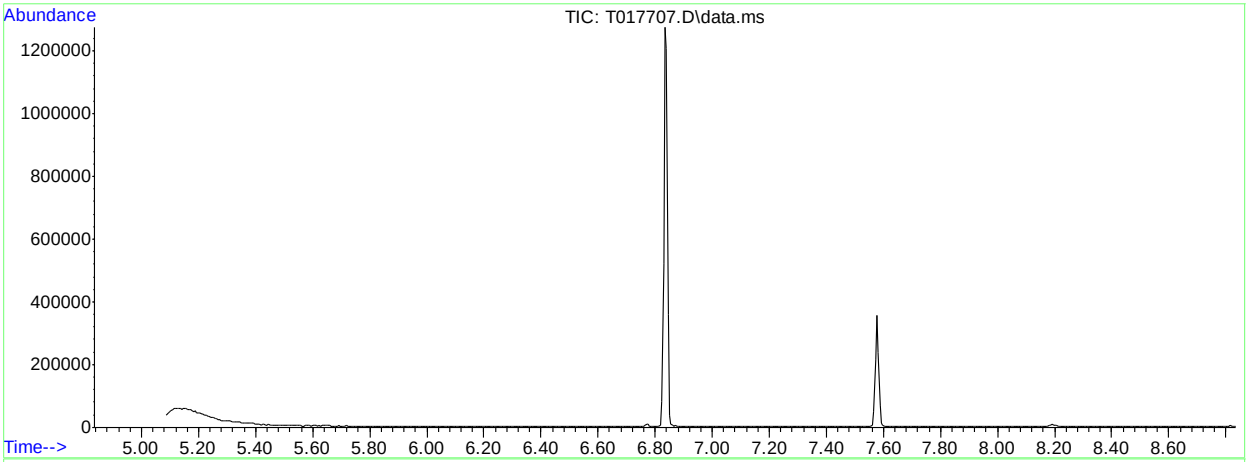
response 1046640

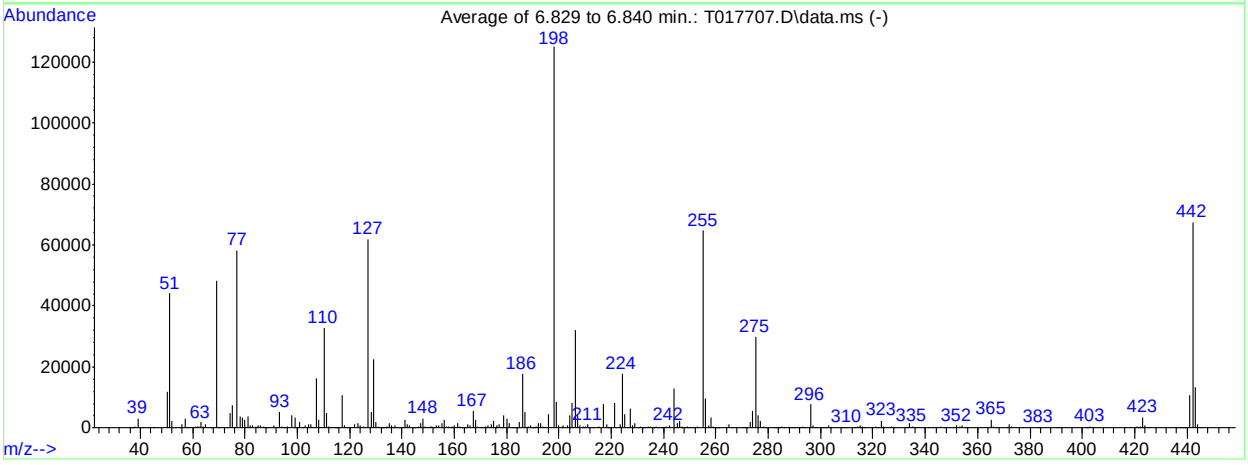
Signal	Exp%	Act%
TIC	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

SW-846 Method 8270

Data File : C:\msdchem\1\DATA\st810\T017707.D Vial: 1
Acq On : 6 Apr 2015 10:32 am Operator: mayrag
Sample : dftpp Inst : MSBNA06
Misc : op55409,st810,250,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : C:\msdchem\1\METHODS\dftpp.m (RTE Integrator)
Title : Tune Evaluation





AutoFind: Scans 327, 328, 329; Background Corrected with Scan 323

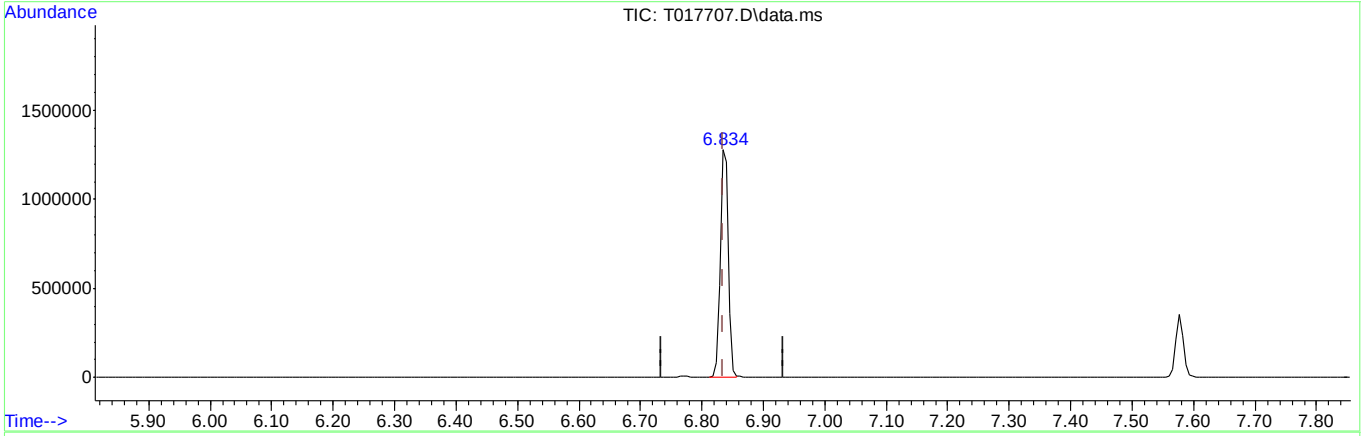
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	35.3	44096	PASS
68	69	0.00	2	0.0	0	PASS
69	198	0.00	100	38.6	48232	PASS
70	69	0.00	2	0.2	75	PASS
127	198	40	60	49.4	61826	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	125069	PASS
199	198	5	9	6.8	8537	PASS
275	198	10	30	23.9	29867	PASS
365	198	1	100	2.2	2717	PASS
441	443	0.01	100	81.7	10813	PASS
442	198	40	100	54.0	67501	PASS
443	442	17	23	19.6	13239	PASS

T017707.D dftpp.m Mon Apr 06 15:44:28 2015

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\DATA\st810\
Data File : T017707.D
Acq On    :  6 Apr 2015  10:32 am
Operator  : mayrag
Sample    : dftpp
Misc      : op55409,st810,250,,,1,1,water
ALS Vial  : 1   Sample Multiplier: 1

Quant Time: Apr 06 15:44:46 2015
Quant Method : C:\msdchem\1\METHODS\dftpp.m
Quant Title  : Tune Evaluation
QLast Update : Mon Apr 06 15:44:40 2015
Response via : Initial Calibration
```



TIC: T017707.D\data.ms

(2) DFTPP

6.834min (0.000) 39.51

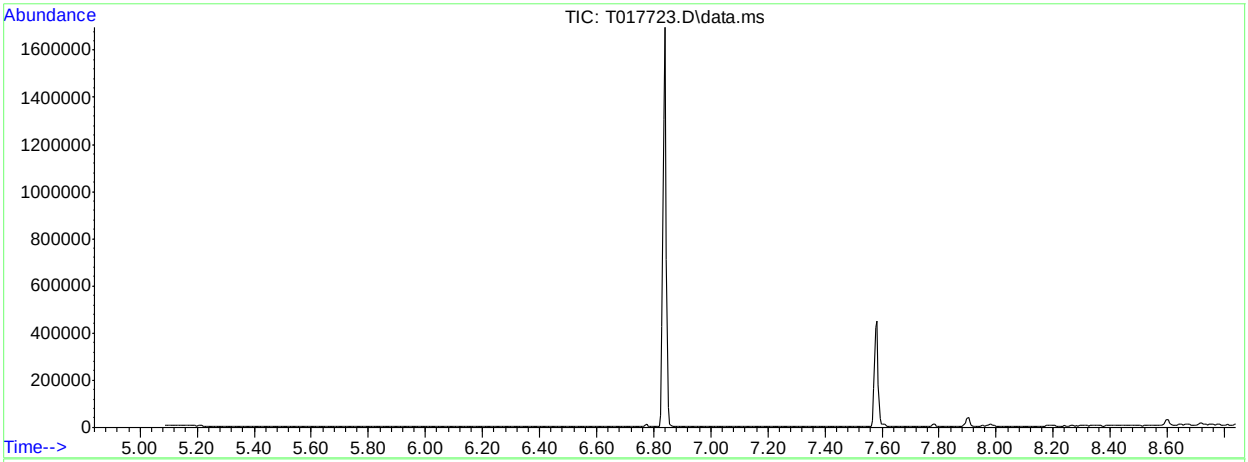
response 1114991

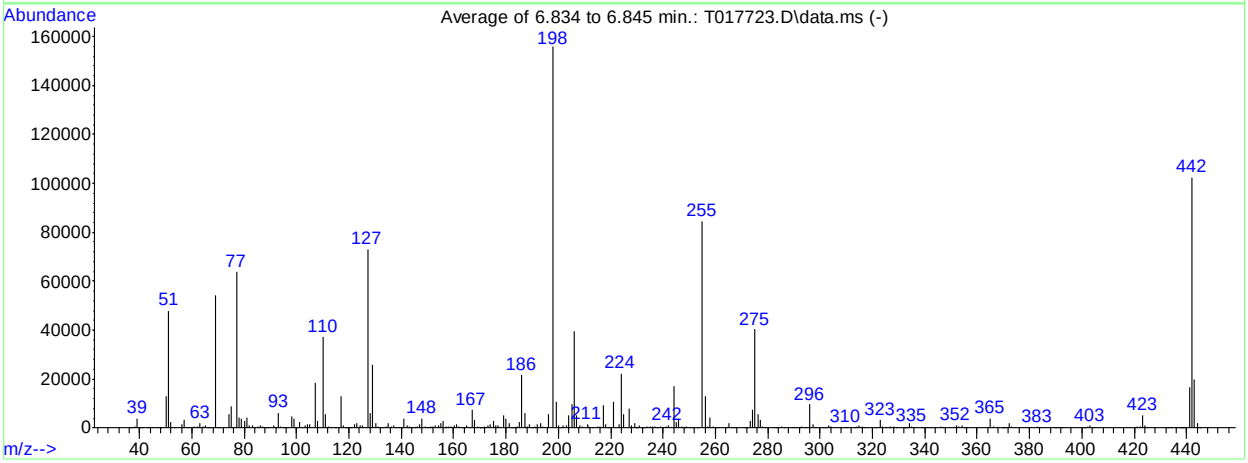
Signal	Exp%	Act%
TIC	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

SW-846 Method 8270

Data File : C:\msdchem\1\DATA\st811\T017723.D Vial: 1
Acq On : 7 Apr 2015 10:07 am Operator: mayrag
Sample : dftpp Inst : MSBNA06
Misc : op55409,st811,250,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : C:\msdchem\1\METHODS\dftpp.m (RTE Integrator)
Title : Tune Evaluation





AutoFind: Scans 328, 329, 330; Background Corrected with Scan 324

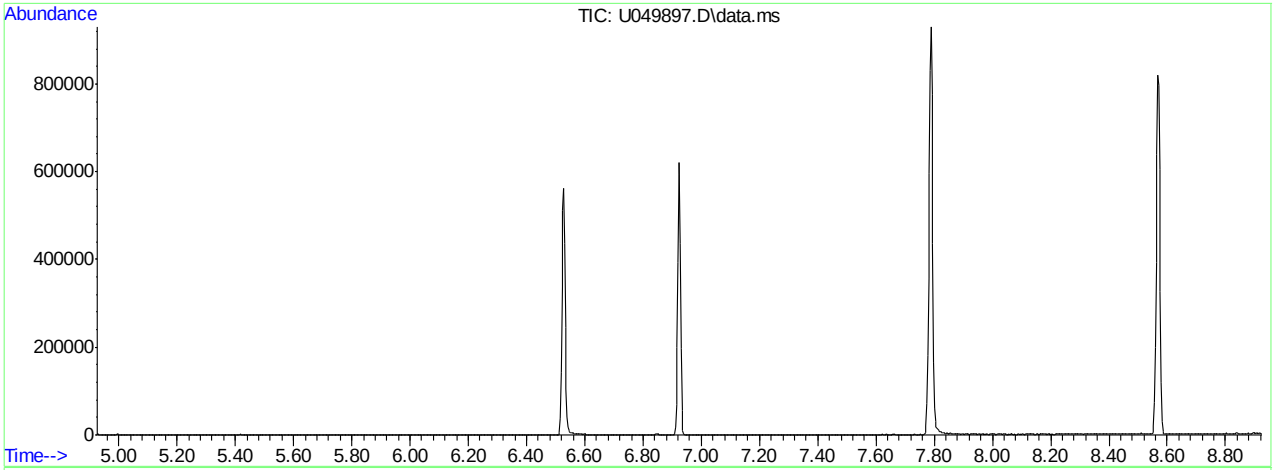
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	30.7	47900	PASS
68	69	0.00	2	0.0	0	PASS
69	198	0.00	100	34.8	54218	PASS
70	69	0.00	2	0.1	80	PASS
127	198	40	60	46.8	72960	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	155970	PASS
199	198	5	9	6.7	10520	PASS
275	198	10	30	25.8	40304	PASS
365	198	1	100	2.5	3906	PASS
441	443	0.01	100	85.0	16823	PASS
442	198	40	100	65.6	102312	PASS
443	442	17	23	19.4	19803	PASS

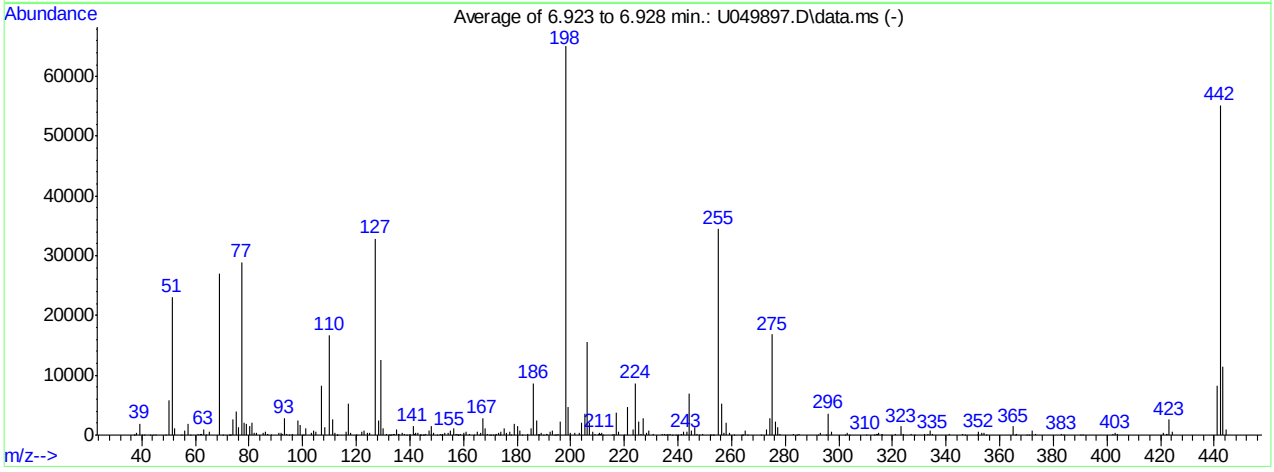
T017723.D dftpp.m Tue Apr 07 11:07:31 2015

SW-846 Method 8270

Data File : C:\msdchem\2\DATA\SU2285\U049897.D Vial: 1
Acq On : 30 Mar 2015 12:56 pm Operator: nareshj
Sample : dftpp Inst : MSBNA04
Misc : op55483,su2285,30.0,,,1,1,soil Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : C:\msdchem\2\METHODS\dftpp.m (RTE Integrator)
Title : Tune Evaluation





AutoFind: Scans 999, 1000, 1001; Background Corrected with Scan 992

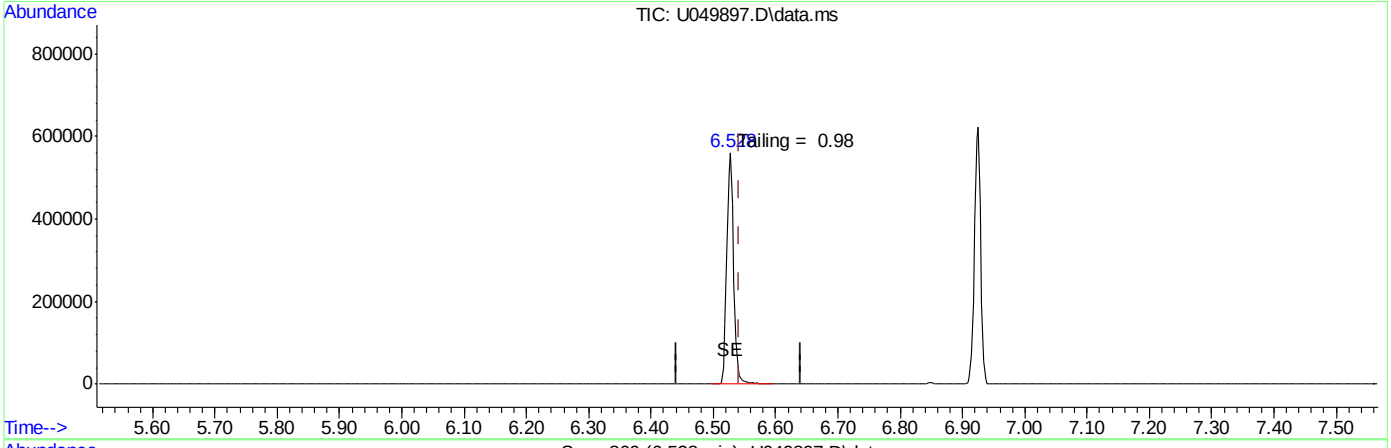
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	35.6	23167	PASS
68	69	0.00	2	0.0	0	PASS
69	198	0.00	100	41.5	26962	PASS
70	69	0.00	2	0.2	52	PASS
127	198	40	60	50.5	32856	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	65034	PASS
199	198	5	9	7.1	4610	PASS
275	198	10	30	25.9	16849	PASS
365	198	1	100	2.3	1494	PASS
441	443	0.01	100	72.2	8290	PASS
442	198	40	100	84.8	55176	PASS
443	442	17	23	20.8	11480	PASS

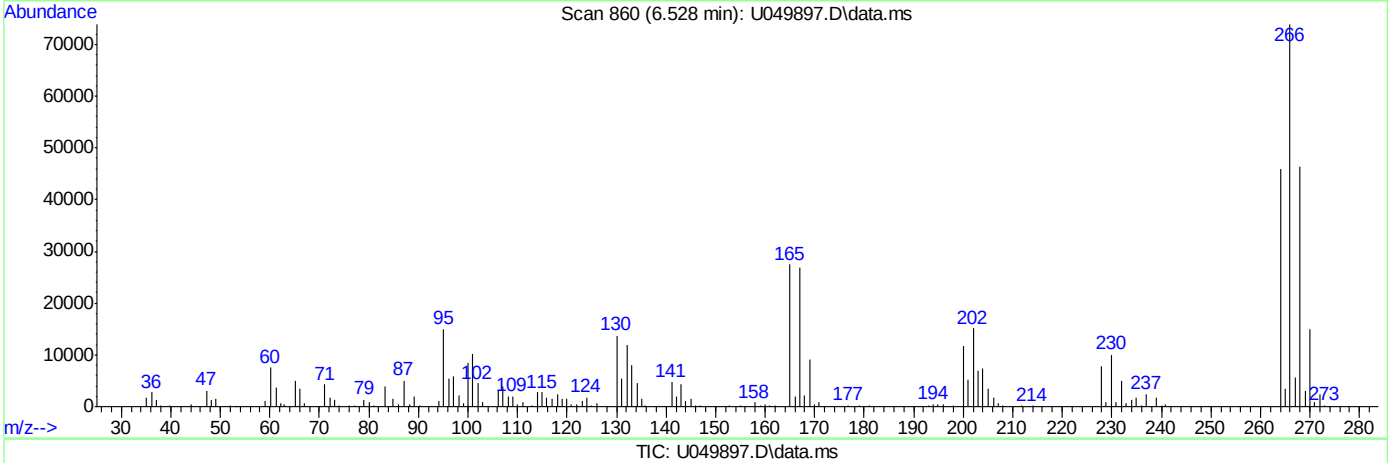
U049897.D dftpp.m Mon Mar 30 15:24:52 2015

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\DATA\SU2285\
Data File : U049897.D
Acq On : 30 Mar 2015 12:56 pm
Operator : nareshj
Sample : dftpp
Misc : op55483,su2285,30.0,,,1,1,soil
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Mar 30 15:24:54 2015
Quant Method : C:\msdchem\2\METHODS\dftpp.m
Quant Title : Tune Evaluation
QLast Update : Mon Mar 30 08:46:15 2015
Response via : Initial Calibration





TIC: U049897.D\data.ms

(1) Pentachlorophenol

6.528min (-0.014) 17.73

response 424150

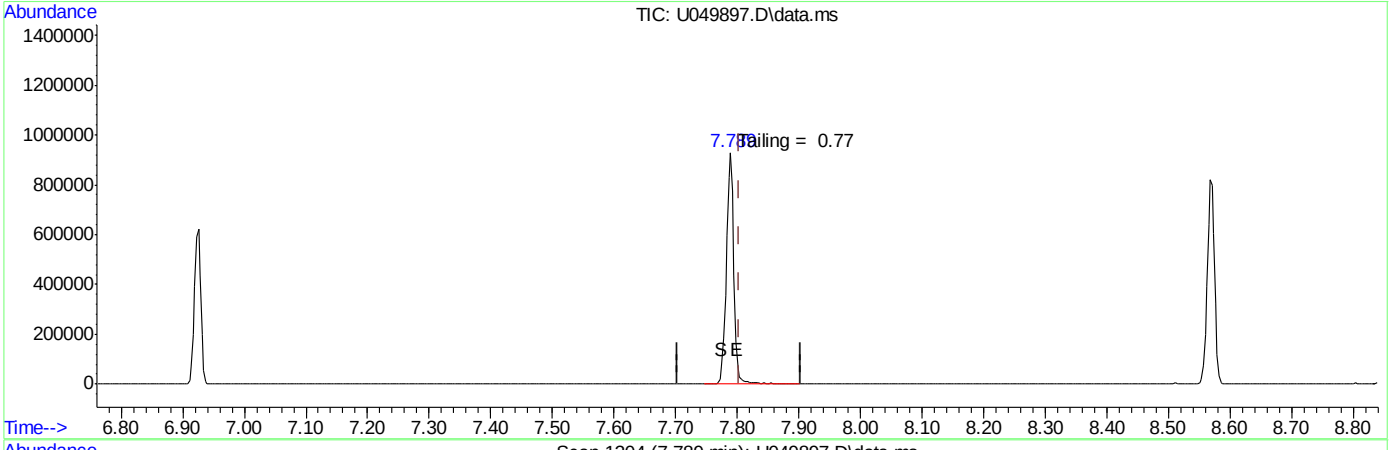
Signal	Exp%	Act%
TIC	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

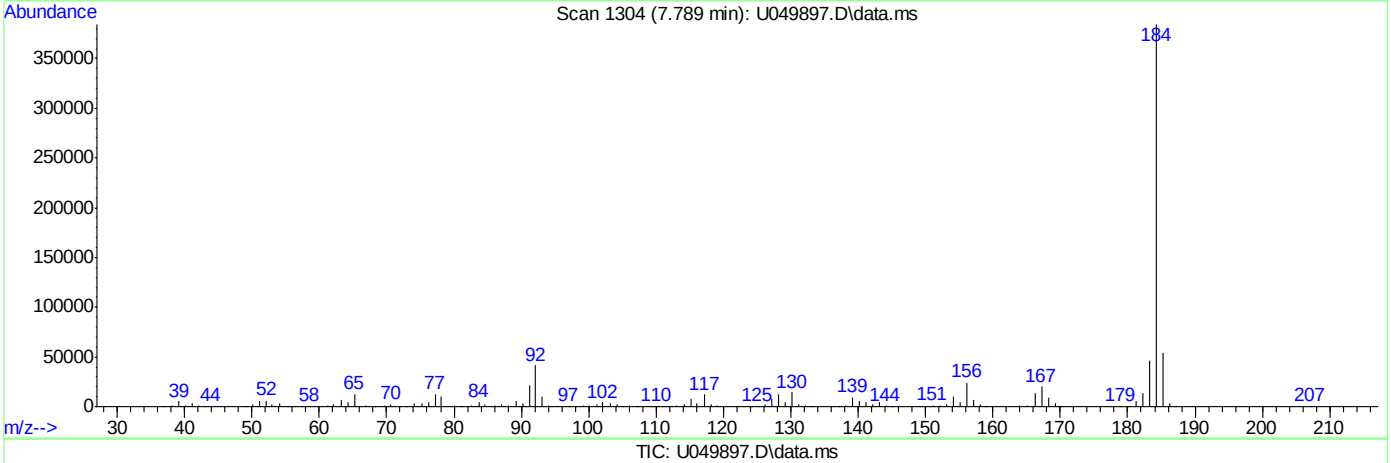
ACCUTEST LABORATORIES FA23189

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\DATA\SU2285\
Data File : U049897.D
Acq On : 30 Mar 2015 12:56 pm
Operator : nareshj
Sample : dftpp
Misc : op55483,su2285,30.0,,,1,1,soil
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Mar 30 15:24:54 2015
Quant Method : C:\msdchem\2\METHODS\dftpp.m
Quant Title : Tune Evaluation
QLast Update : Mon Mar 30 08:46:15 2015
Response via : Initial Calibration





TIC: U049897.D\data.ms

(3) Benzidine

7.789min (-0.014) 18.32

response 777023

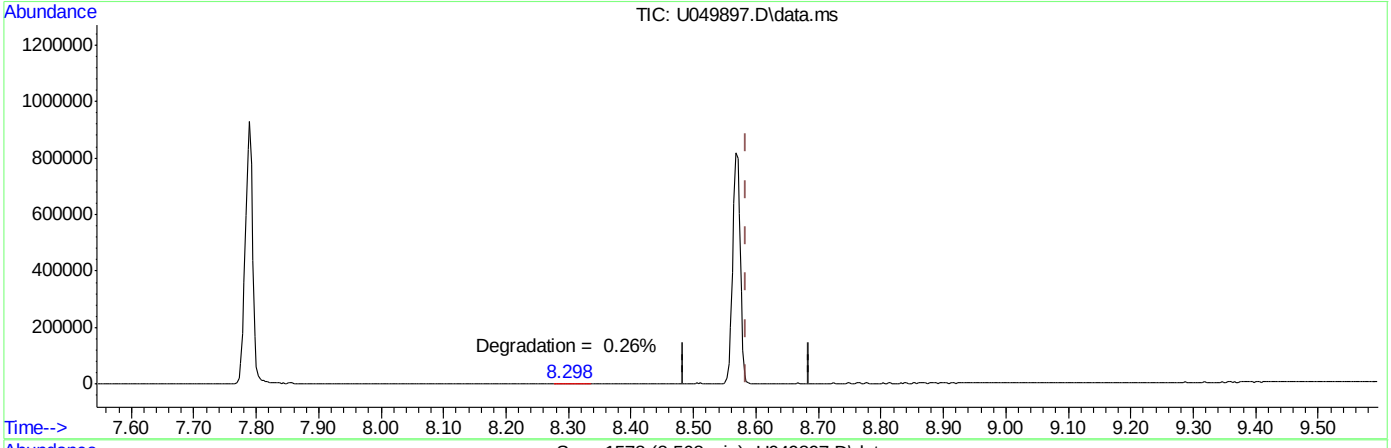
Signal	Exp%	Act%
TIC	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

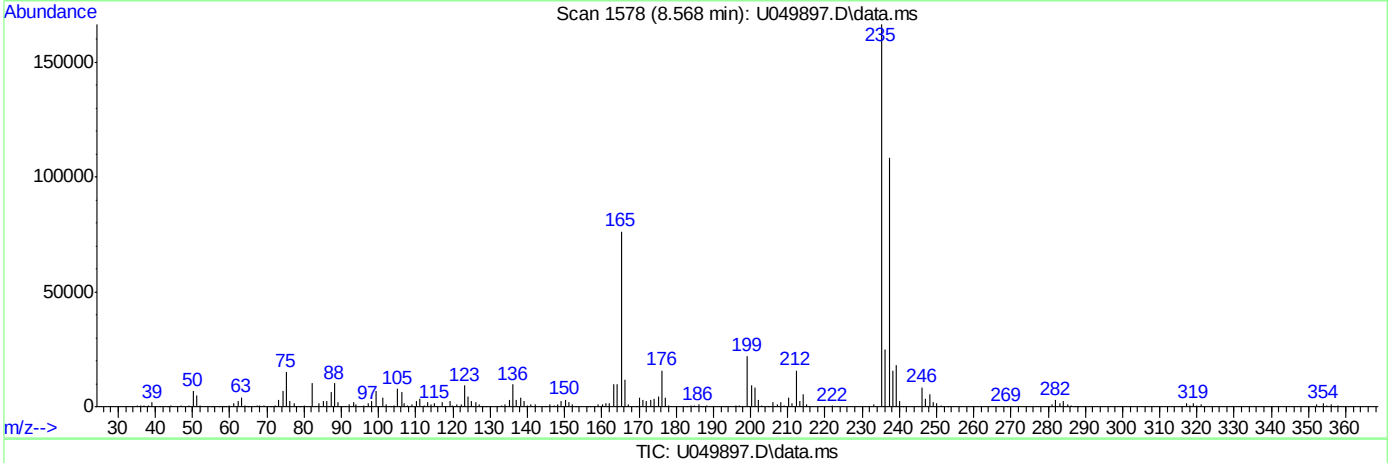
ACCUTEST LABORATORIES FA23189

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\DATA\SU2285\
Data File : U049897.D
Acq On : 30 Mar 2015 12:56 pm
Operator : nareshj
Sample : dftpp
Misc : op55483,su2285,30.0,,,1,1,soil
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Mar 30 15:24:54 2015
Quant Method : C:\msdchem\2\METHODS\dftpp.m
Quant Title : Tune Evaluation
QLast Update : Mon Mar 30 08:46:15 2015
Response via : Initial Calibration





TIC: U049897.D\data.ms

(4) DDT

8.568min (-0.017) 19.57

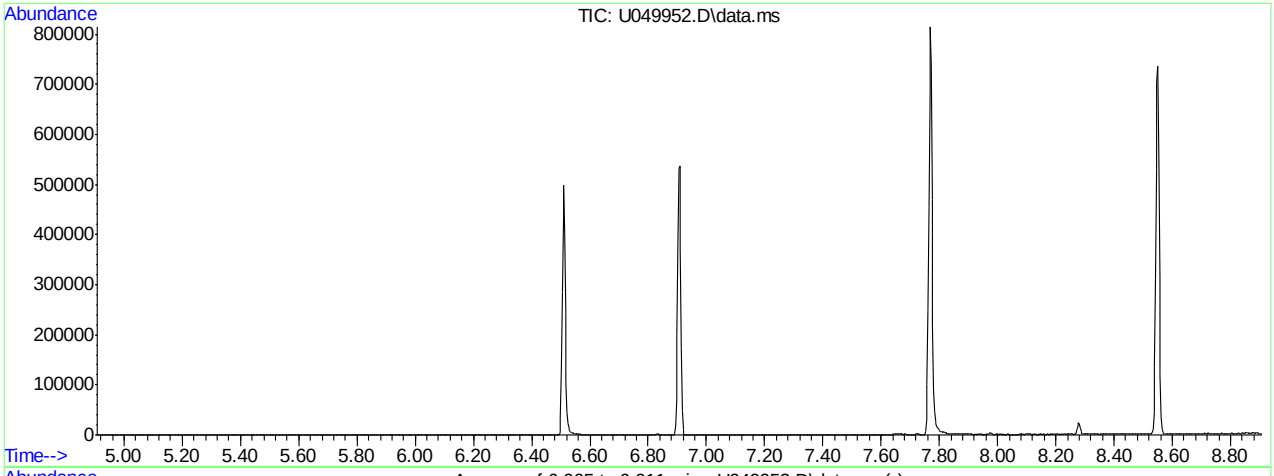
response 683146

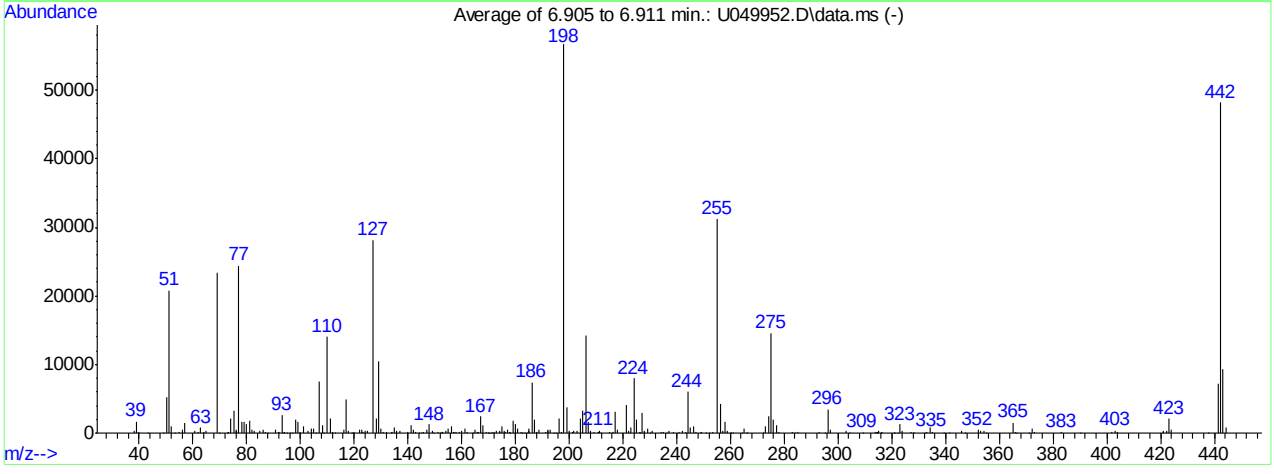
Signal	Exp%	Act%
TIC	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

SW-846 Method 8270

Data File : C:\msdchem\2\DATA\SU2287\U049952.D Vial: 1
Acq On : 1 Apr 2015 9:42 am Operator: nareshj
Sample : dftpp Inst : MSBNA04
Misc : op55483,su2287,30.0,,,1,1,soil Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : C:\msdchem\2\METHODS\dftpp.m (RTE Integrator)
Title : Tune Evaluation





AutoFind: Scans 993, 994, 995; Background Corrected with Scan 986

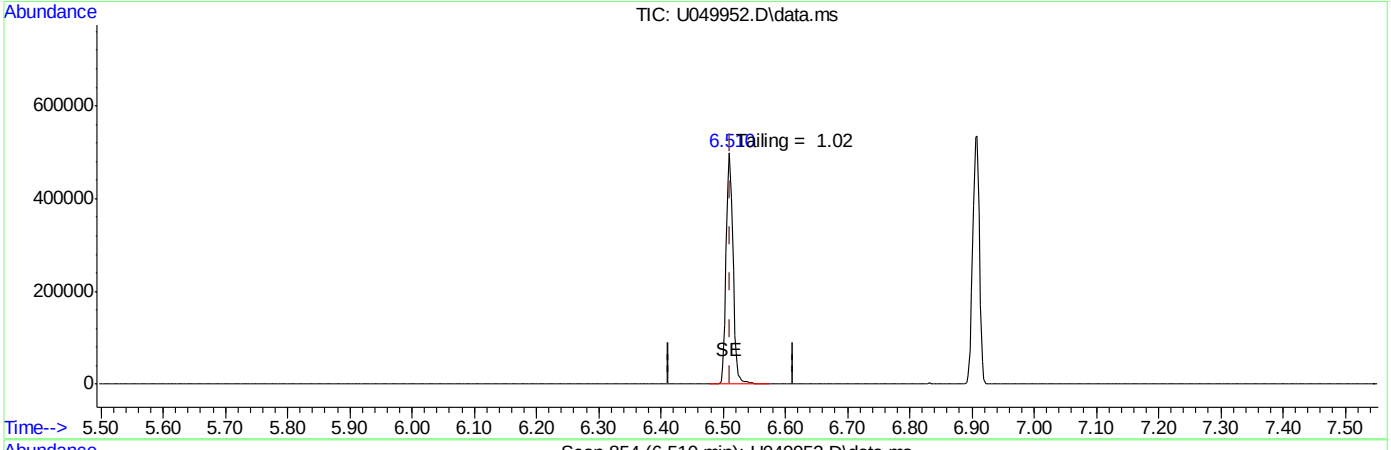
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	36.7	20805	PASS
68	69	0.00	2	0.0	0	PASS
69	198	0.00	100	41.4	23460	PASS
70	69	0.00	2	0.2	38	PASS
127	198	40	60	49.7	28186	PASS
197	198	0.00	1	0.3	191	PASS
198	198	100	100	100.0	56677	PASS
199	198	5	9	6.7	3774	PASS
275	198	10	30	25.7	14573	PASS
365	198	1	100	2.7	1557	PASS
441	443	0.01	100	78.3	7244	PASS
442	198	40	100	85.0	48168	PASS
443	442	17	23	19.2	9252	PASS

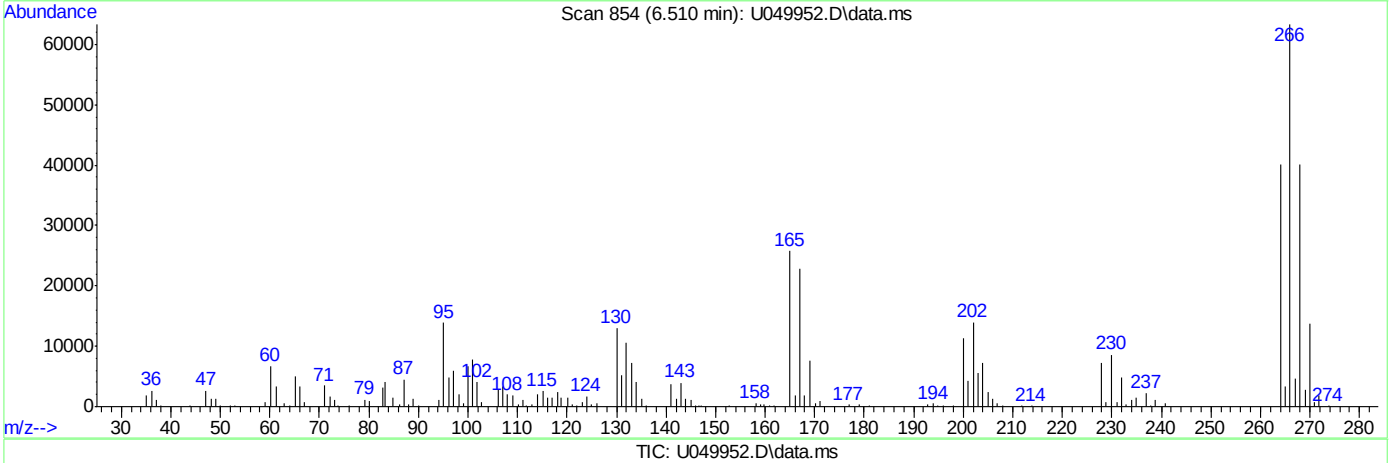
U049952.D dftpp.m Wed Apr 01 15:37:16 2015

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\DATA\SU2287\
Data File : U049952.D
Acq On : 1 Apr 2015 9:42 am
Operator : nareshj
Sample : dftpp
Misc : op55483,su2287,30.0,,,1,1,soil
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Apr 01 15:37:18 2015
Quant Method : C:\msdchem\2\METHODS\dftpp.m
Quant Title : Tune Evaluation
QLast Update : Tue Mar 31 14:41:26 2015
Response via : Initial Calibration





(1) Pentachlorophenol

6.510min (-0.003) 16.07

response 384490

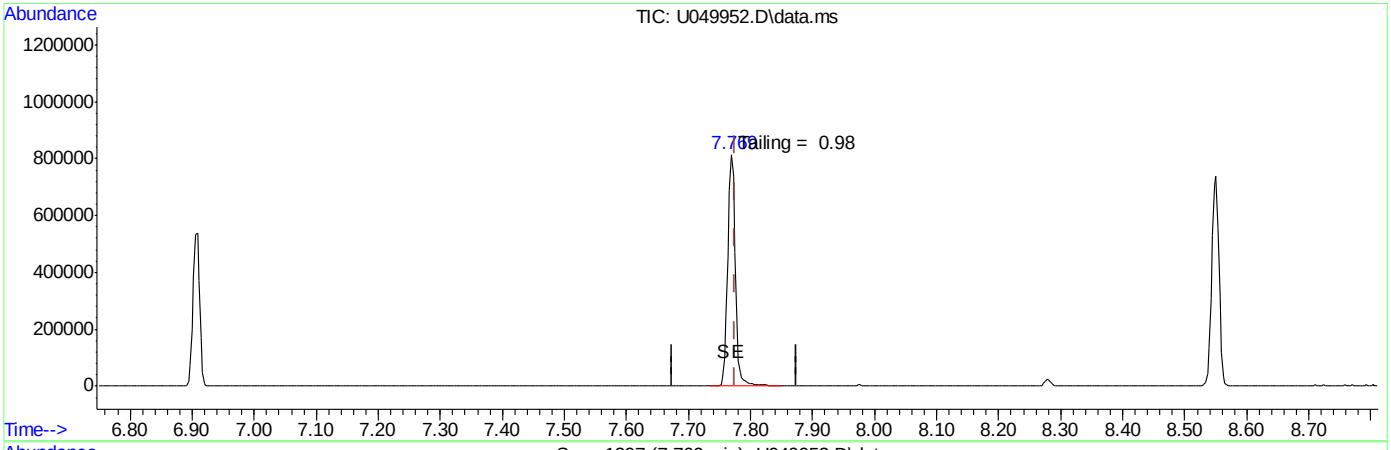
Signal	Exp%	Act%
TIC	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

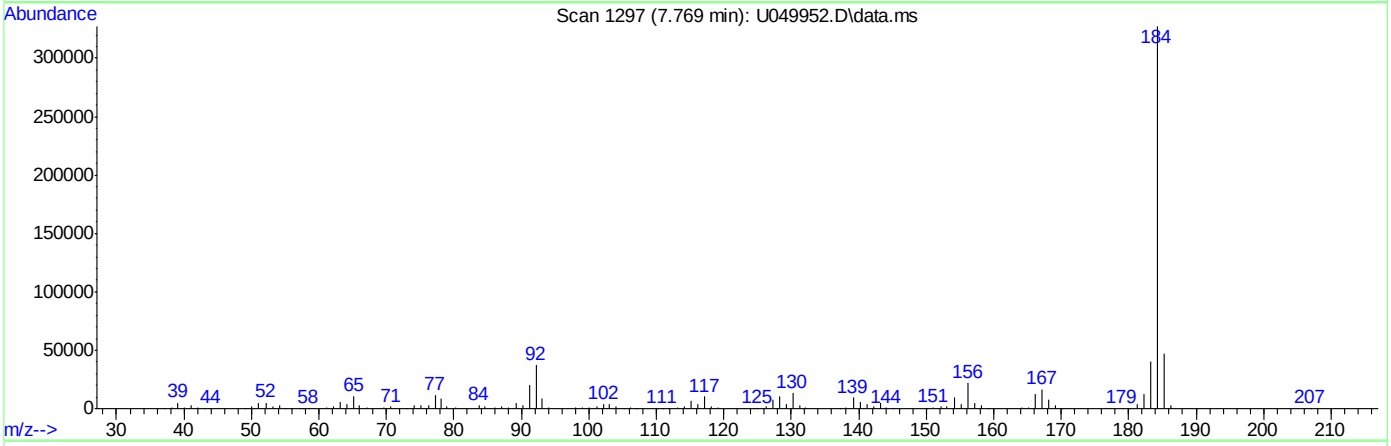
ACCUTEST LABORATORIES FA23189

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\DATA\SU2287\
Data File : U049952.D
Acq On : 1 Apr 2015 9:42 am
Operator : nareshj
Sample : dftpp
Misc : op55483,su2287,30.0,,,1,1,soil
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Apr 01 15:37:18 2015
Quant Method : C:\msdchem\2\METHODS\dftpp.m
Quant Title : Tune Evaluation
QLast Update : Tue Mar 31 14:41:26 2015
Response via : Initial Calibration





TIC: U049952.D\data.ms

(3) Benzidine

7.769min (-0.006) 16.08

response 682220

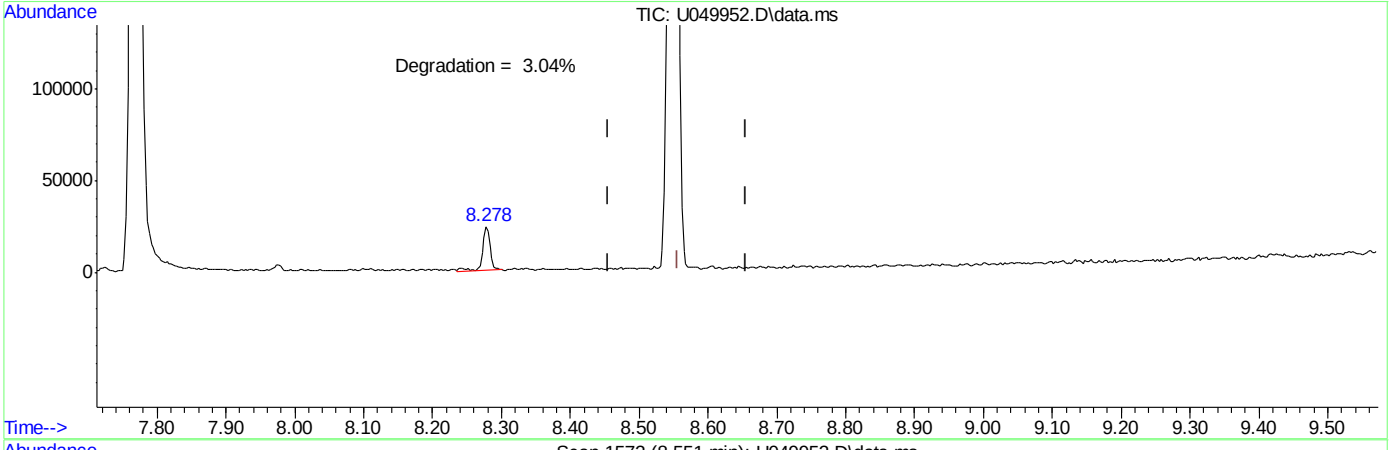
Signal	Exp%	Act%
TIC	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

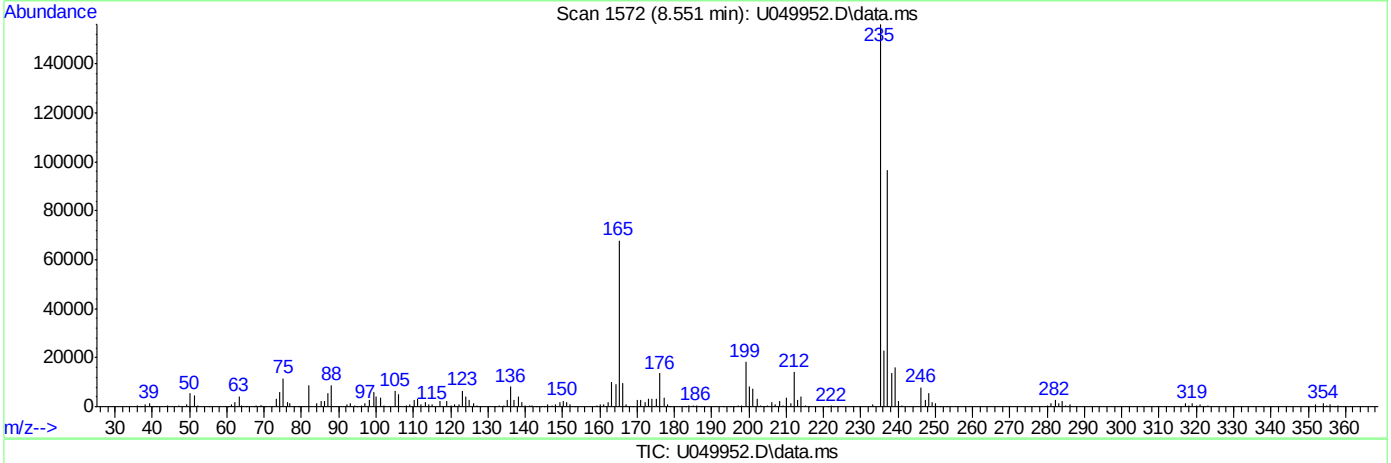
ACCUTEST LABORATORIES FA23189

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\DATA\SU2287\
Data File : U049952.D
Acq On : 1 Apr 2015 9:42 am
Operator : nareshj
Sample : dftpp
Misc : op55483,su2287,30.0,,,1,1,soil
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Apr 01 15:37:18 2015
Quant Method : C:\msdchem\2\METHODS\dftpp.m
Quant Title : Tune Evaluation
QLast Update : Tue Mar 31 14:41:26 2015
Response via : Initial Calibration





TIC: U049952.D\data.ms

(4) DDT

8.551min (-0.006) 17.05

response 595146

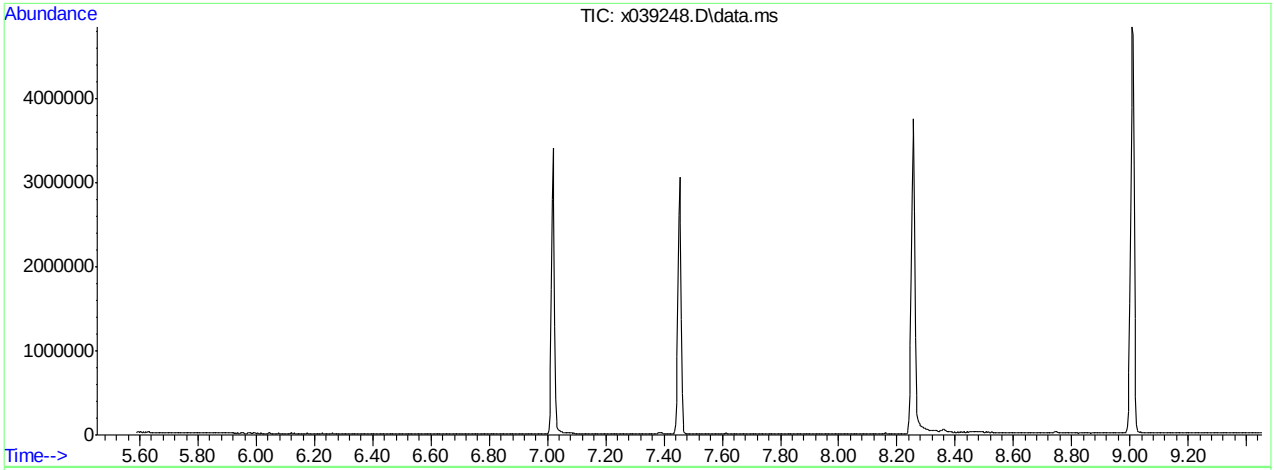
Signal	Exp%	Act%
TIC	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

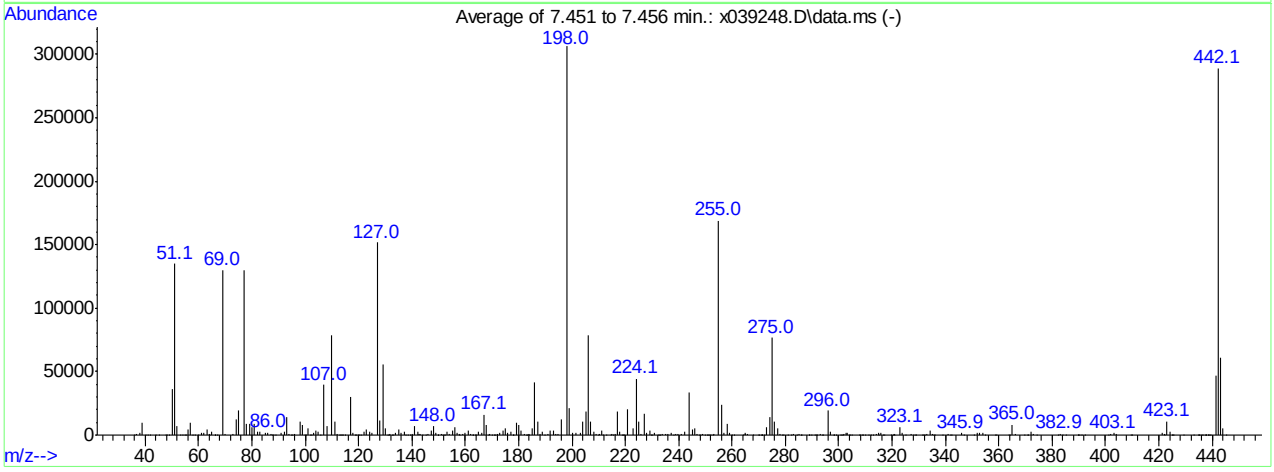
ACCUTEST LABORATORIES FA23189

SW-846 Method 8270

Data File : C:\msdchem\1\DATA\sx1826\x039248.D Vial: 3
Acq On : 30 Mar 2015 2:50 pm Operator: nareshj
Sample : dftpp Inst : MSBNA05
Misc : op55392,sx1826,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : C:\msdchem\1\METHODS\dftpp.m (RTE Integrator)
Title : Tune Evaluation





AutoFind: Scans 656, 657, 658; Background Corrected with Scan 647

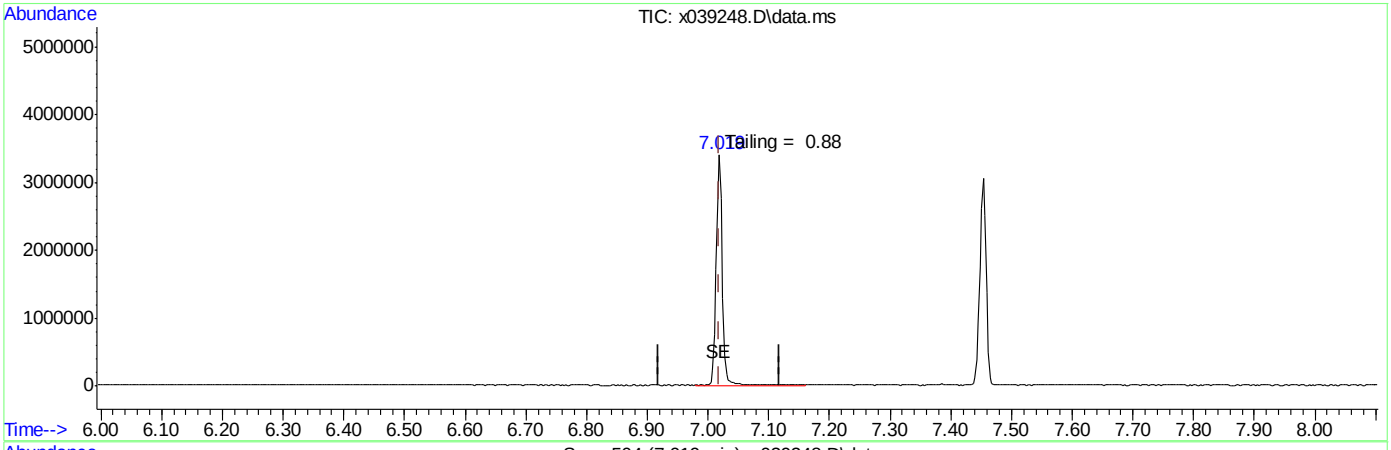
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	44.1	134923	PASS
68	69	0.00	2	0.0	0	PASS
69	198	0.00	100	42.5	130091	PASS
70	69	0.00	2	0.5	591	PASS
127	198	40	60	49.5	151563	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	306112	PASS
199	198	5	9	6.8	20803	PASS
275	198	10	30	25.0	76677	PASS
365	198	1	100	2.6	8040	PASS
441	443	0.01	100	77.4	47275	PASS
442	198	40	100	94.4	288832	PASS
443	442	17	23	21.1	61083	PASS

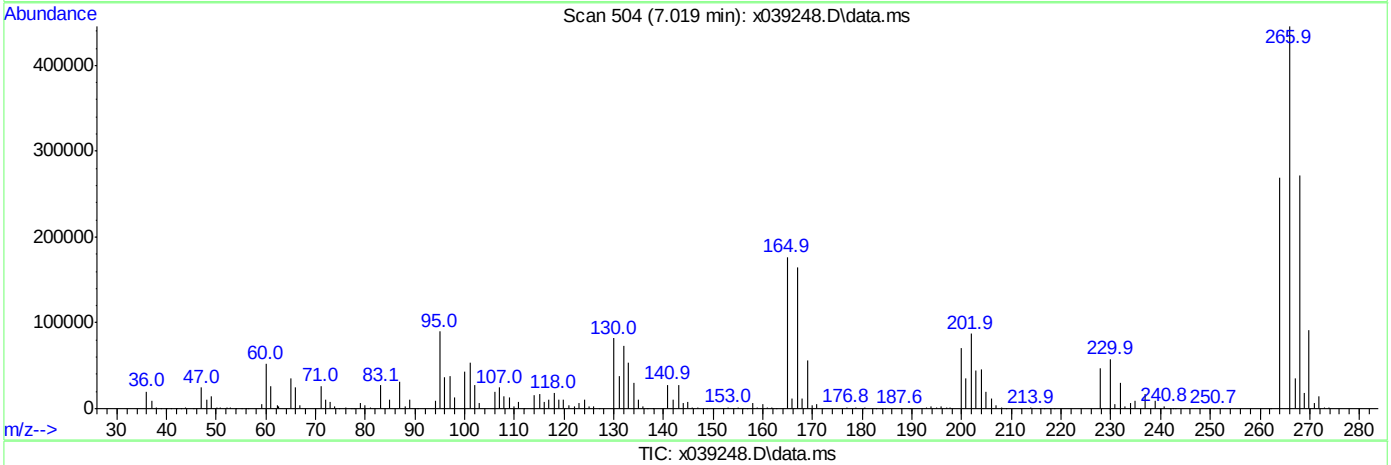
x039248.D dftpp.m Tue Mar 31 09:00:24 2015

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\sx1826\
Data File : x039248.D
Acq On : 30 Mar 2015 2:50 pm
Operator : nareshj
Sample : dftpp
Misc : op55392,sx1826,1000,,,1,1,water
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Mar 31 09:02:03 2015
Quant Method : C:\msdchem\1\METHODS\dftpp.m
Quant Title : Tune Evaluation
QLast Update : Tue Mar 31 09:00:43 2015
Response via : Initial Calibration





(1) Pentachlorophenol

7.019min (0.000) 99.87

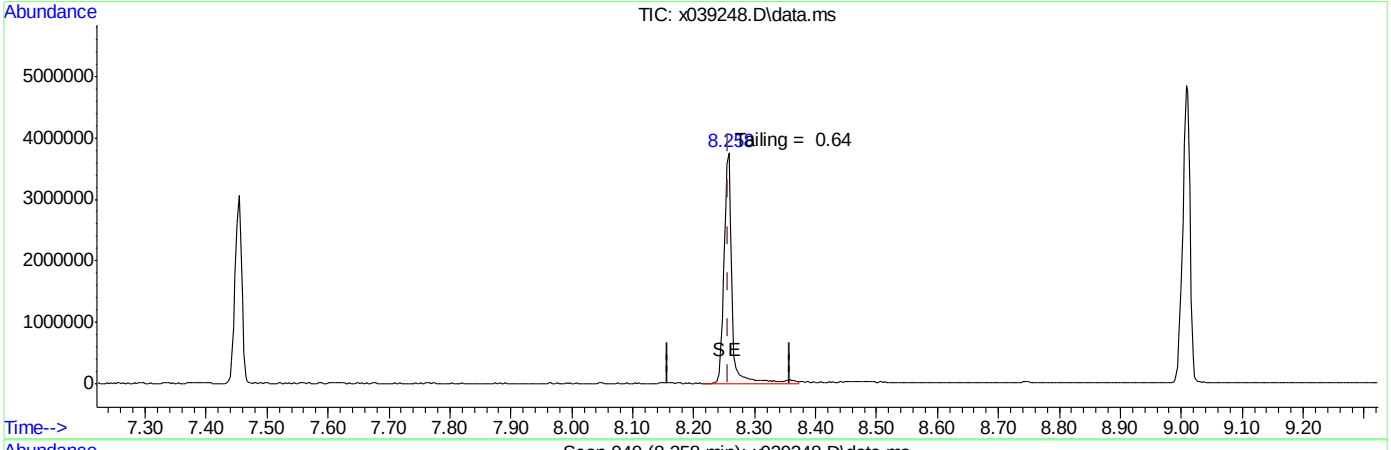
response 2388790

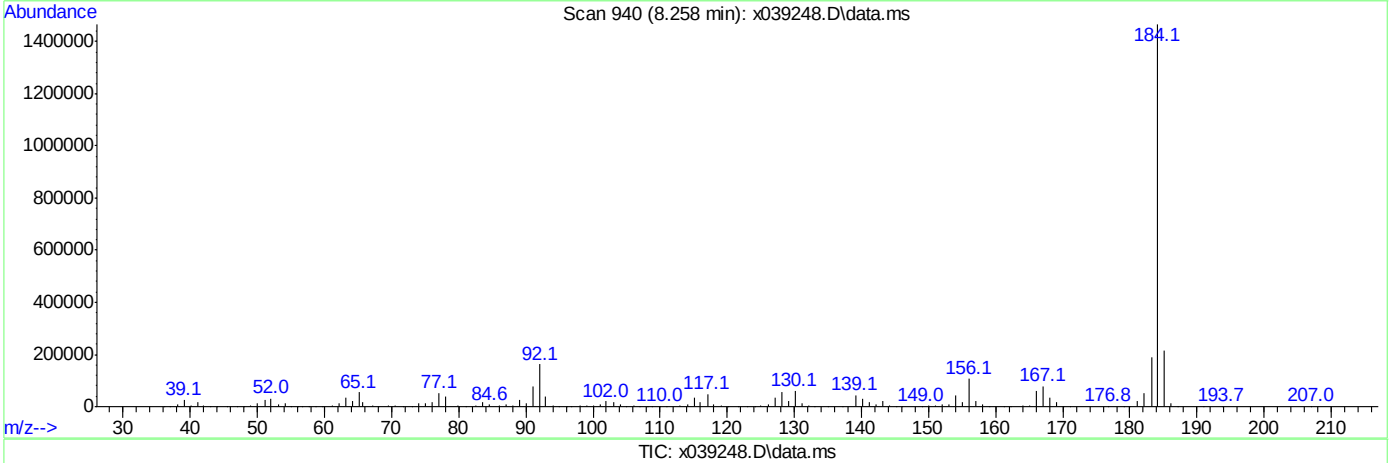
Signal	Exp%	Act%
TIC	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\sx1826\
Data File : x039248.D
Acq On : 30 Mar 2015 2:50 pm
Operator : nareshj
Sample : dftpp
Misc : op55392,sx1826,1000,,,1,1,water
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Mar 31 09:02:03 2015
Quant Method : C:\msdchem\1\METHODS\dftpp.m
Quant Title : Tune Evaluation
QLast Update : Tue Mar 31 09:00:43 2015
Response via : Initial Calibration





TIC: x039248.D\data.ms

(3) Benzidine

8.258min (0.000) 78.85

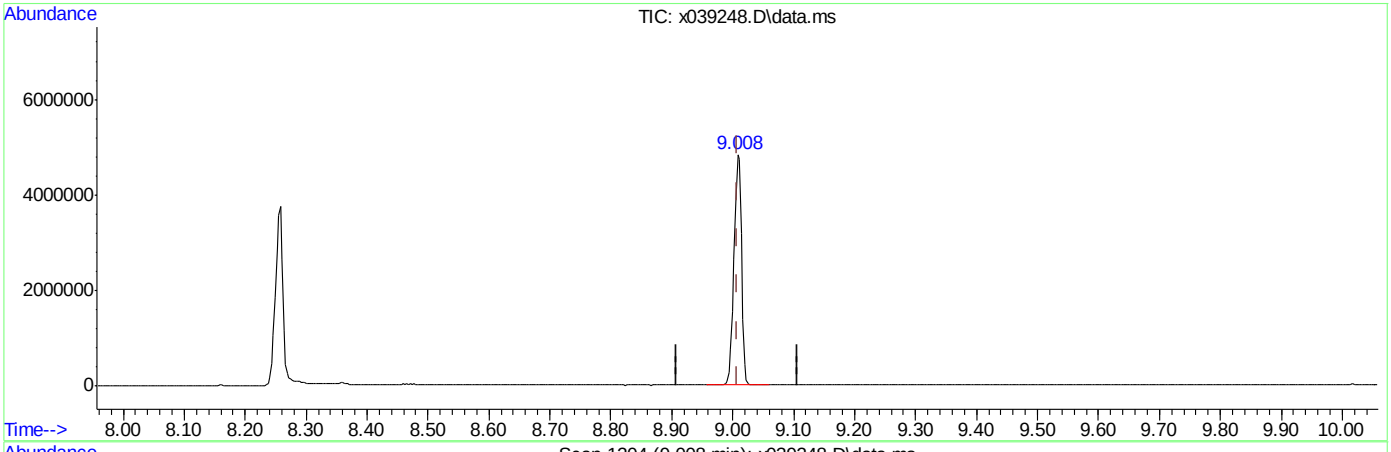
response 3344466

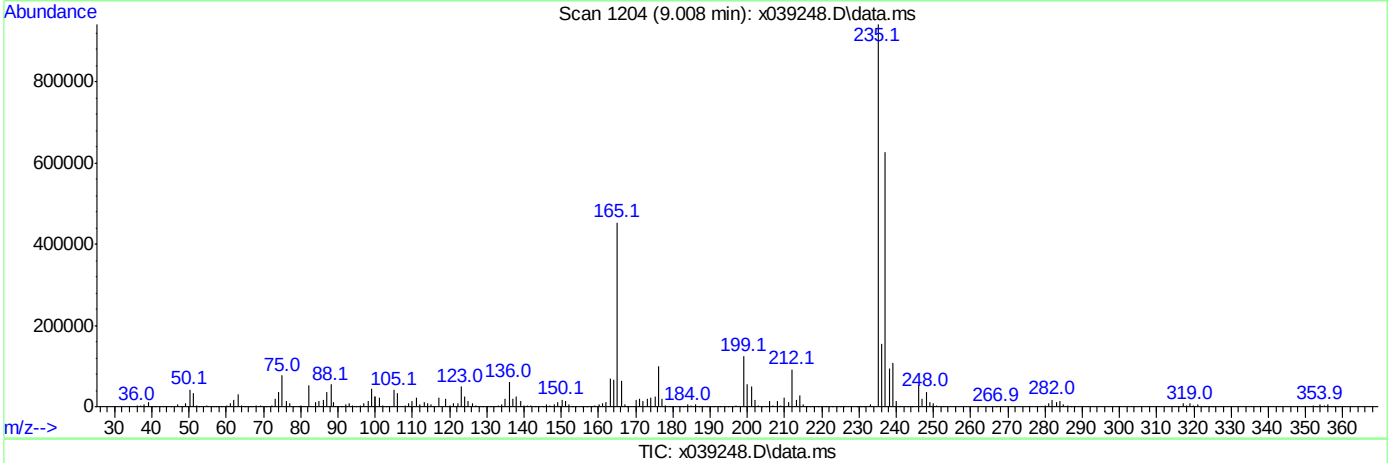
Signal	Exp%	Act%
TIC	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\DATA\sx1826\
Data File : x039248.D
Acq On    : 30 Mar 2015   2:50 pm
Operator  : nareshj
Sample    : dftpp
Misc      : op55392,sx1826,1000,,,1,1,water
ALS Vial  : 3   Sample Multiplier: 1

Quant Time: Mar 31 09:02:03 2015
Quant Method : C:\msdchem\1\METHODS\dftpp.m
Quant Title  : Tune Evaluation
QLast Update : Tue Mar 31 09:00:43 2015
Response via : Initial Calibration
```





TIC: x039248.D\data.ms

(4) DDT

9.008min (0.000) 116.98

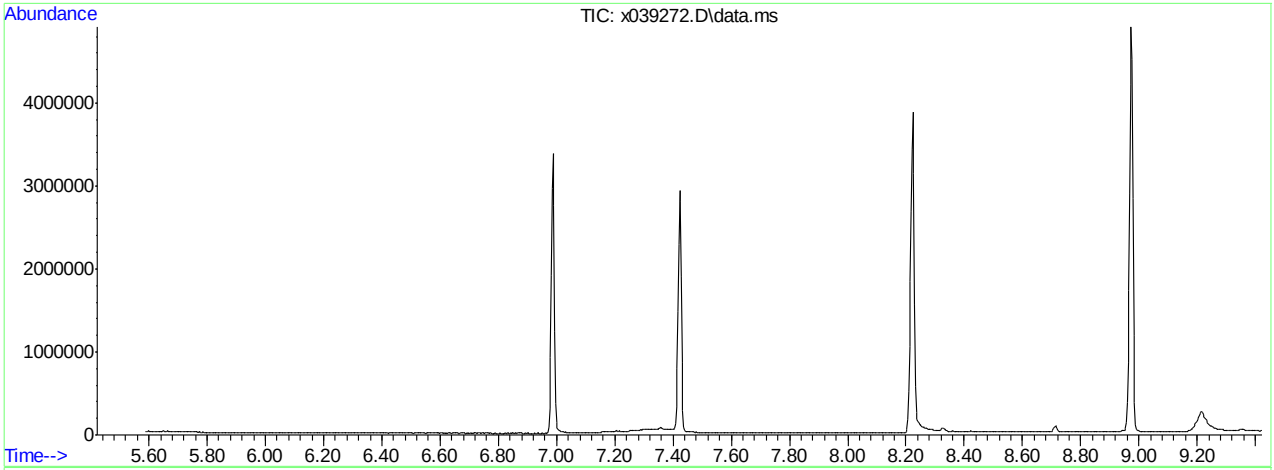
response 4083554

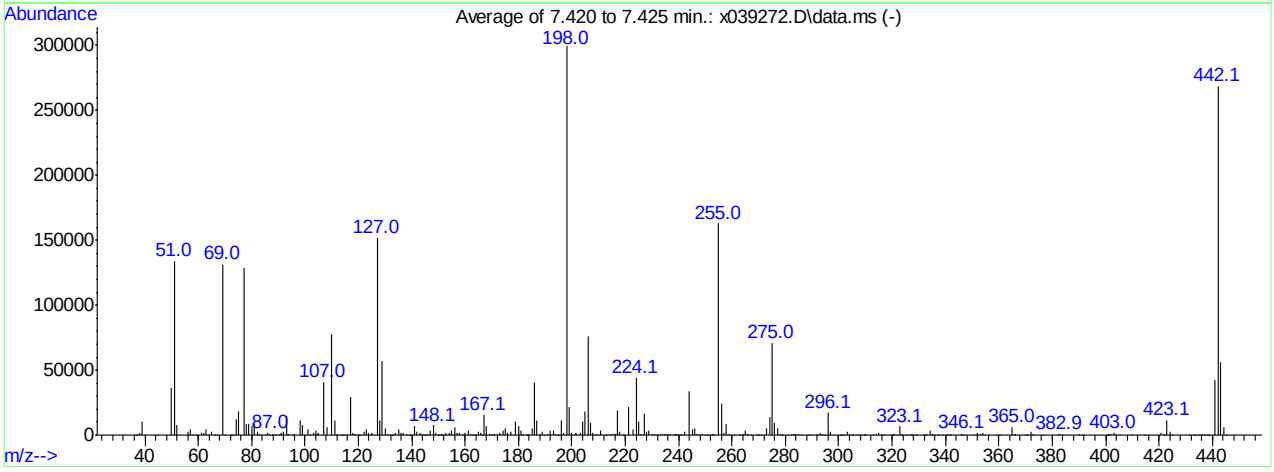
Signal	Exp%	Act%
TIC	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

SW-846 Method 8270

Data File : C:\msdchem\1\DATA\sx1827\x039272.D Vial: 1
Acq On : 31 Mar 2015 1:28 pm Operator: marthav
Sample : dftpp Inst : MSBNA05
Misc : op55392,sx1827,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : C:\msdchem\1\METHODS\dftpp.m (RTE Integrator)
Title : Tune Evaluation





AutoFind: Scans 645, 646, 647; Background Corrected with Scan 636

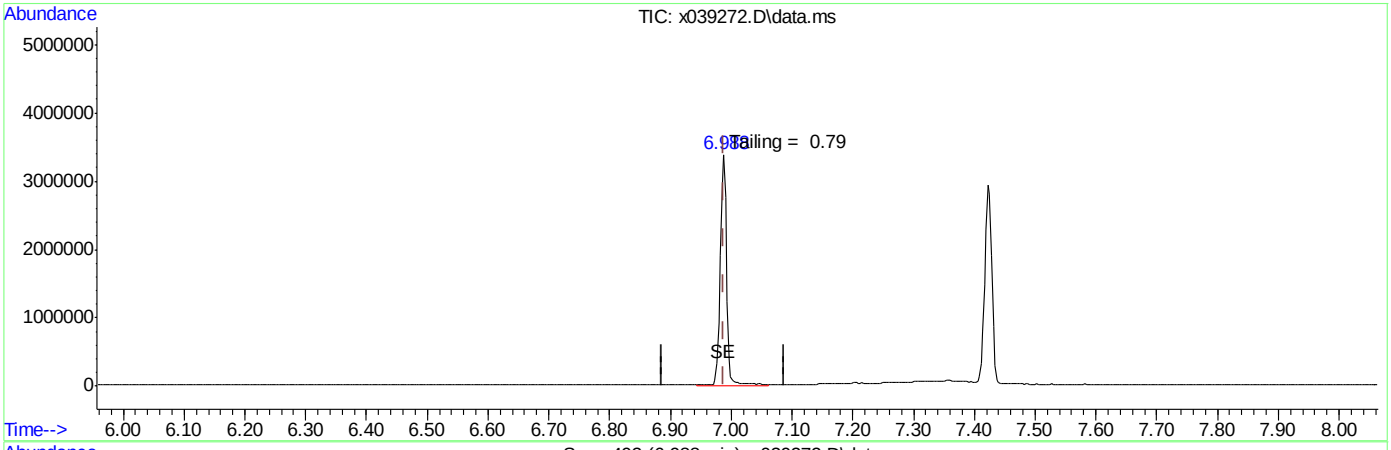
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	44.7	133874	PASS
68	69	0.00	2	0.0	0	PASS
69	198	0.00	100	43.9	131379	PASS
70	69	0.00	2	0.2	236	PASS
127	198	40	60	50.8	151874	PASS
197	198	0.00	1	0.5	1354	PASS
198	198	100	100	100.0	299243	PASS
199	198	5	9	7.2	21672	PASS
275	198	10	30	23.8	71205	PASS
365	198	1	100	2.1	6291	PASS
441	443	0.01	100	75.8	42560	PASS
442	198	40	100	89.8	268608	PASS
443	442	17	23	20.9	56123	PASS

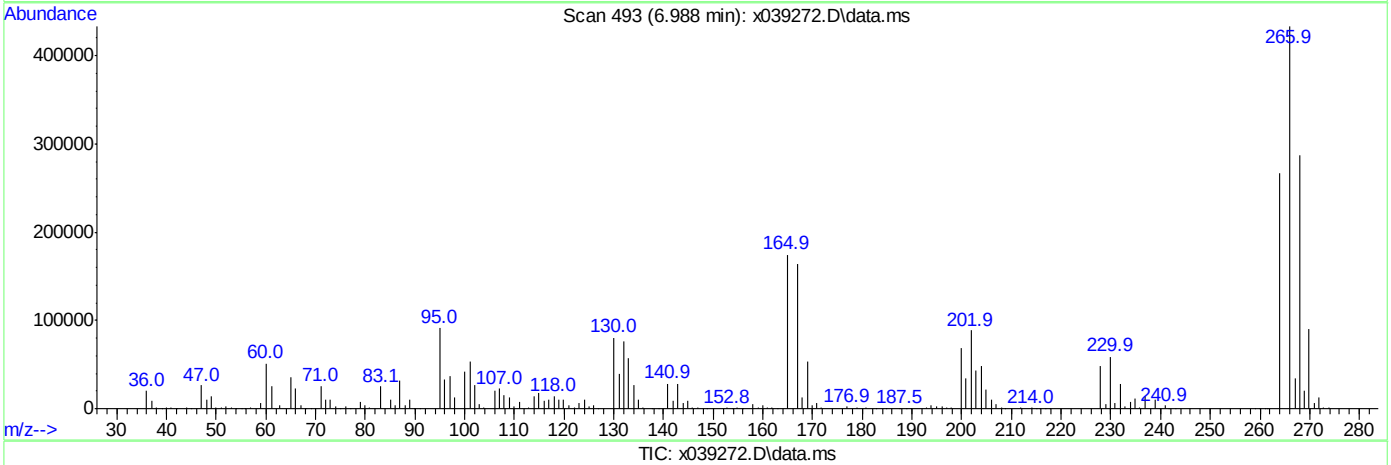
x039272.D dftpp.m Wed Apr 01 09:42:14 2015

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\sx1827\
Data File : x039272.D
Acq On : 31 Mar 2015 1:28 pm
Operator : marthav
Sample : dftpp
Misc : op55392,sx1827,1000,,,1,1,water
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Apr 01 09:42:38 2015
Quant Method : C:\msdchem\1\METHODS\dftpp.m
Quant Title : Tune Evaluation
QLast Update : Wed Apr 01 09:42:34 2015
Response via : Initial Calibration





TIC: x039272.D\data.ms

(1) Pentachlorophenol

6.988min (0.000) 102.74

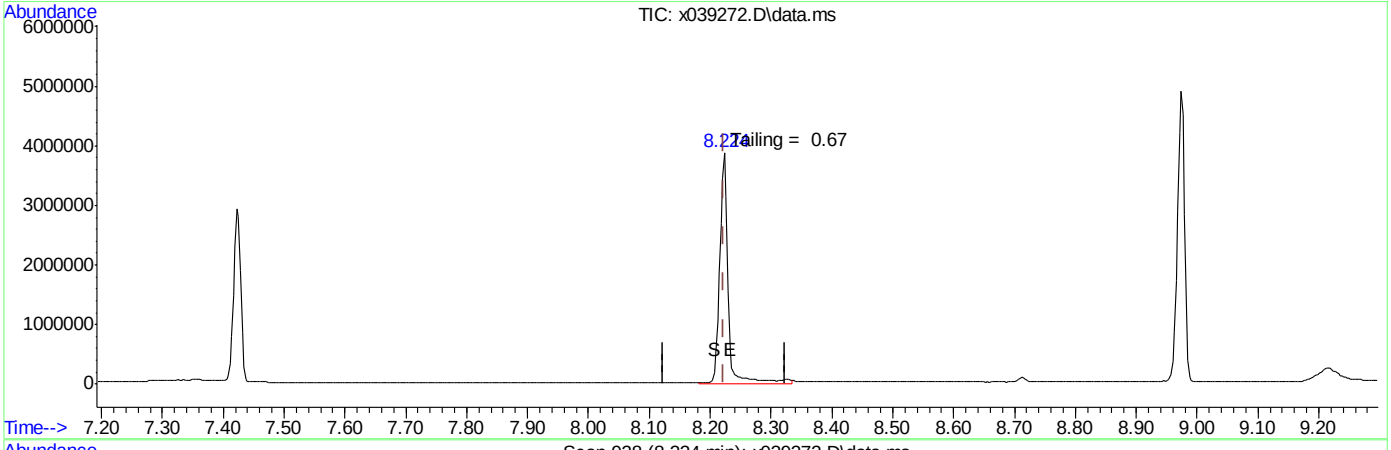
response 2457440

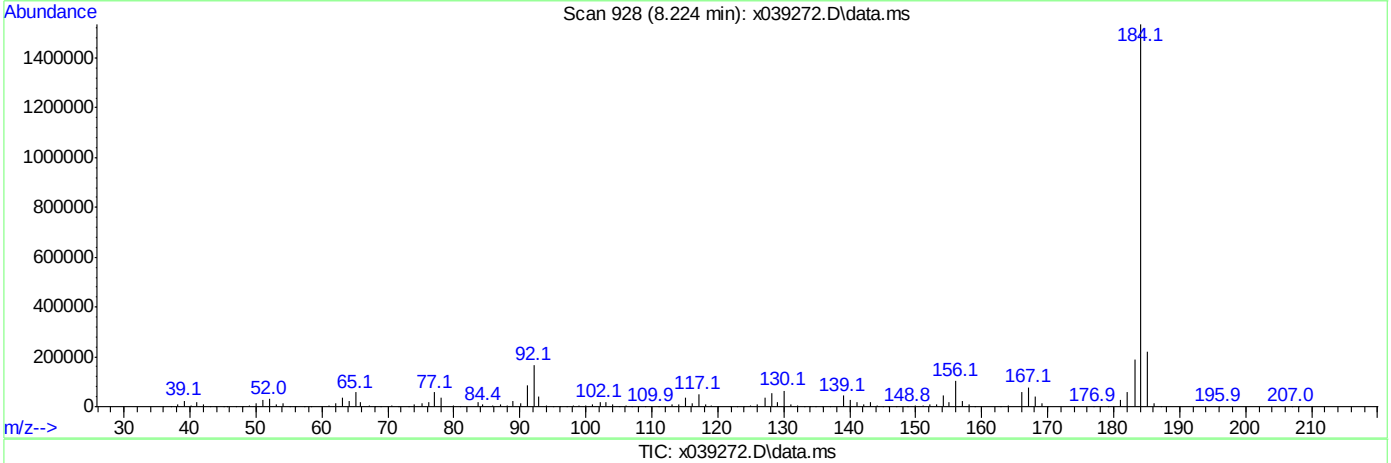
Signal	Exp%	Act%
TIC	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\sx1827\
Data File : x039272.D
Acq On : 31 Mar 2015 1:28 pm
Operator : marthav
Sample : dftpp
Misc : op55392,sx1827,1000,,,1,1,water
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Apr 01 09:42:38 2015
Quant Method : C:\msdchem\1\METHODS\dftpp.m
Quant Title : Tune Evaluation
QLast Update : Wed Apr 01 09:42:34 2015
Response via : Initial Calibration





TIC: x039272.D\data.ms

(3) Benzidine

8.224min (0.000) 82.41

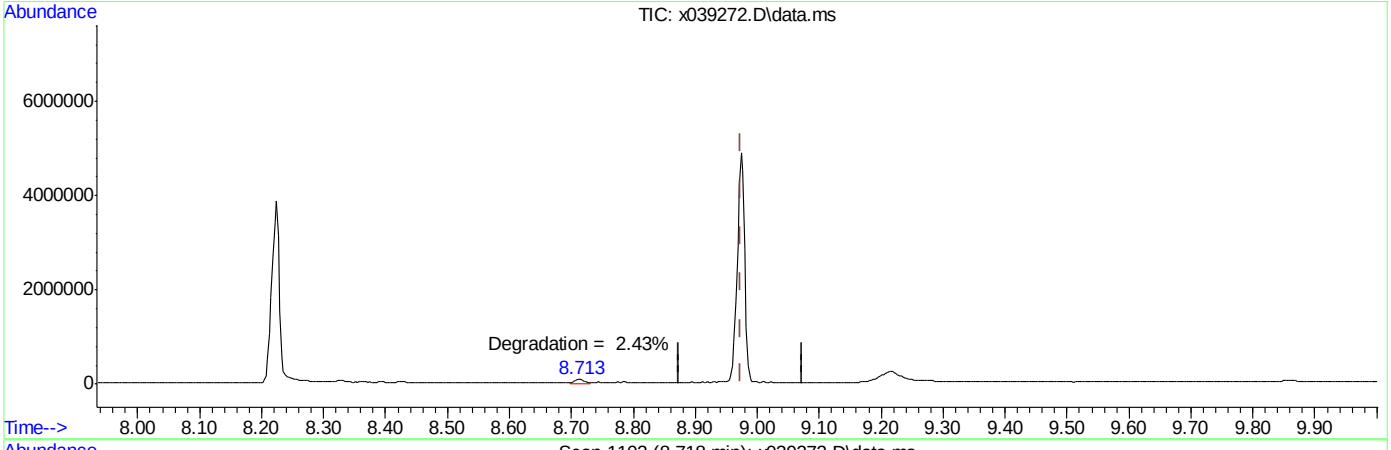
response 3495453

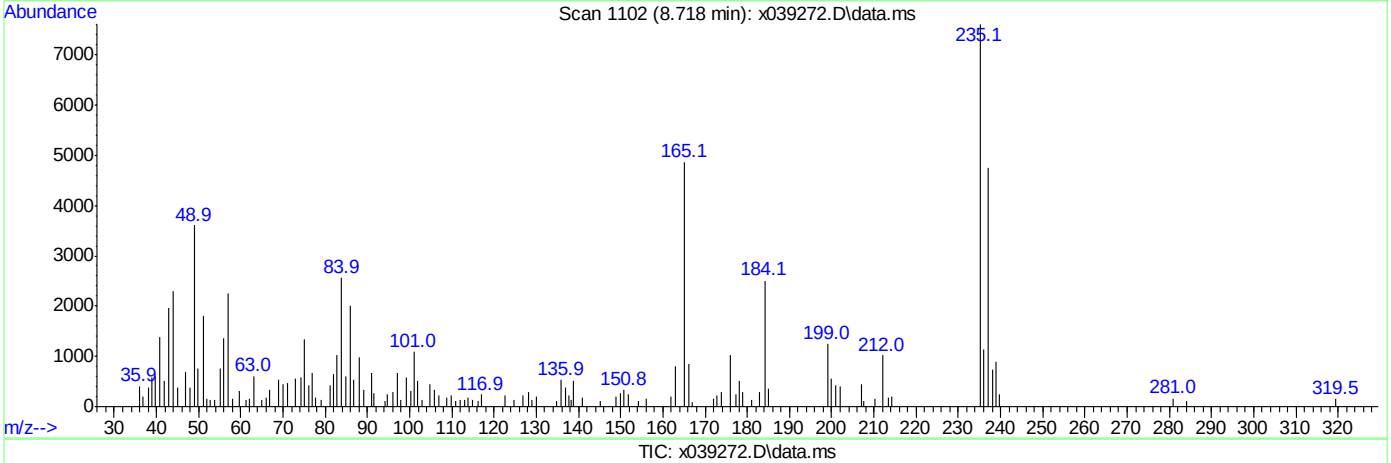
Signal	Exp%	Act%
TIC	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\sx1827\
Data File : x039272.D
Acq On : 31 Mar 2015 1:28 pm
Operator : marthav
Sample : dftpp
Misc : op55392,sx1827,1000,,,1,1,water
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Apr 01 09:42:38 2015
Quant Method : C:\msdchem\1\METHODS\dftpp.m
Quant Title : Tune Evaluation
QLast Update : Wed Apr 01 09:42:34 2015
Response via : Initial Calibration





TIC: x039272.D\data.ms

(4) DDT

8.974min (0.000) 116.93

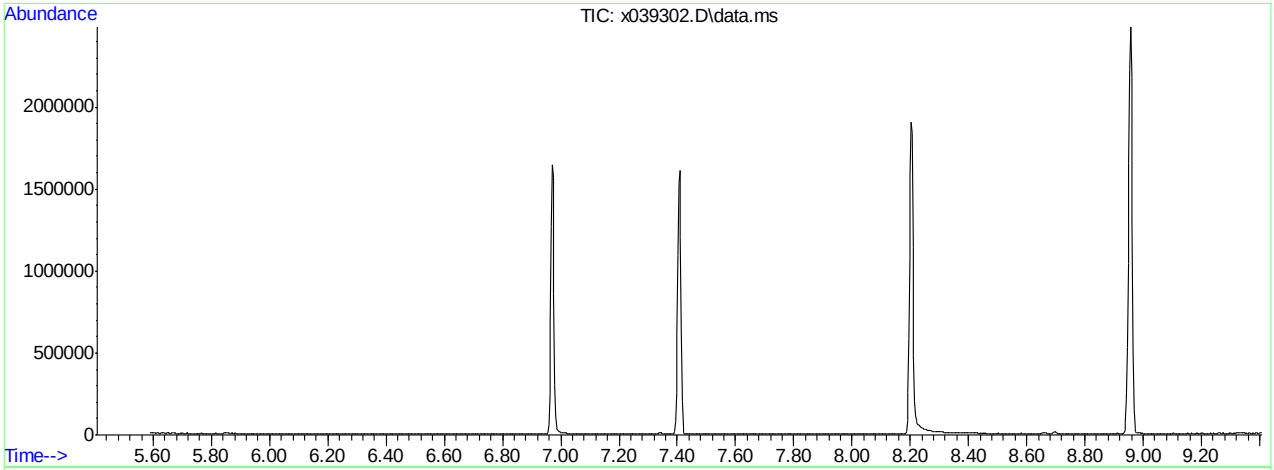
response 4081695

Signal	Exp%	Act%
TIC	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

SW-846 Method 8270

Data File : C:\msdchem\1\DATA\sx1828\x039302.D Vial: 1
Acq On : 1 Apr 2015 9:40 am Operator: marthav
Sample : dftpp Inst : MSBNA05
Misc : op55512,sx1828,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : C:\msdchem\1\METHODS\dftpp.m (RTE Integrator)
Title : Tune Evaluation



AutoFind: Scans 640, 641, 642; Background Corrected with Scan 631

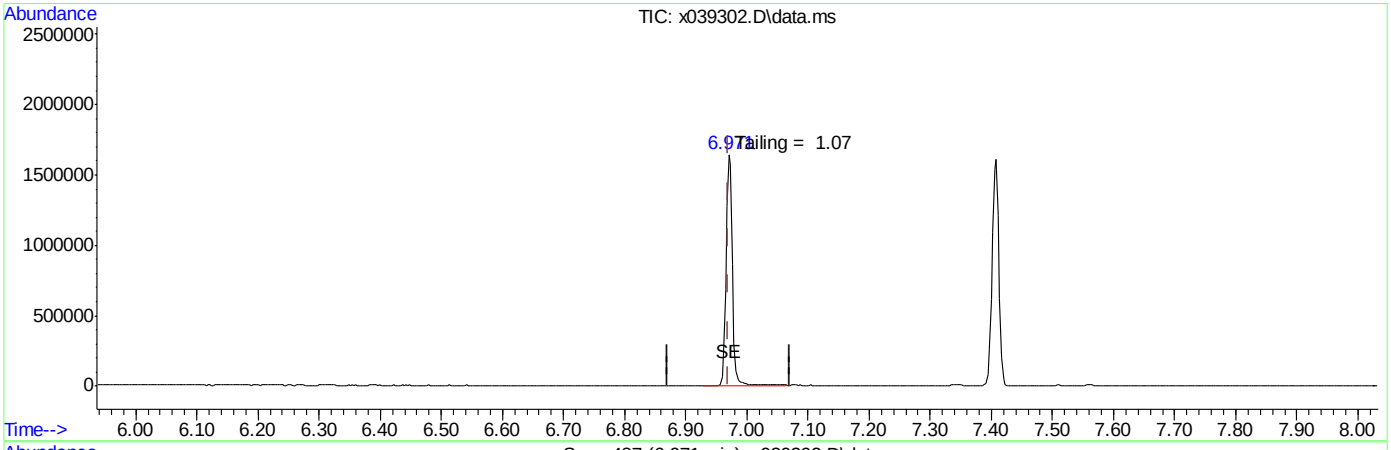
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	45.2	74706	PASS
68	69	0.00	2	0.0	0	PASS
69	198	0.00	100	43.8	72376	PASS
70	69	0.00	2	0.3	244	PASS
127	198	40	60	48.5	80235	PASS
197	198	0.00	1	0.4	665	PASS
198	198	100	100	100.0	165355	PASS
199	198	5	9	6.8	11317	PASS
275	198	10	30	23.4	38731	PASS
365	198	1	100	2.5	4135	PASS
441	443	0.01	100	81.1	26141	PASS
442	198	40	100	95.5	157845	PASS
443	442	17	23	20.4	32221	PASS

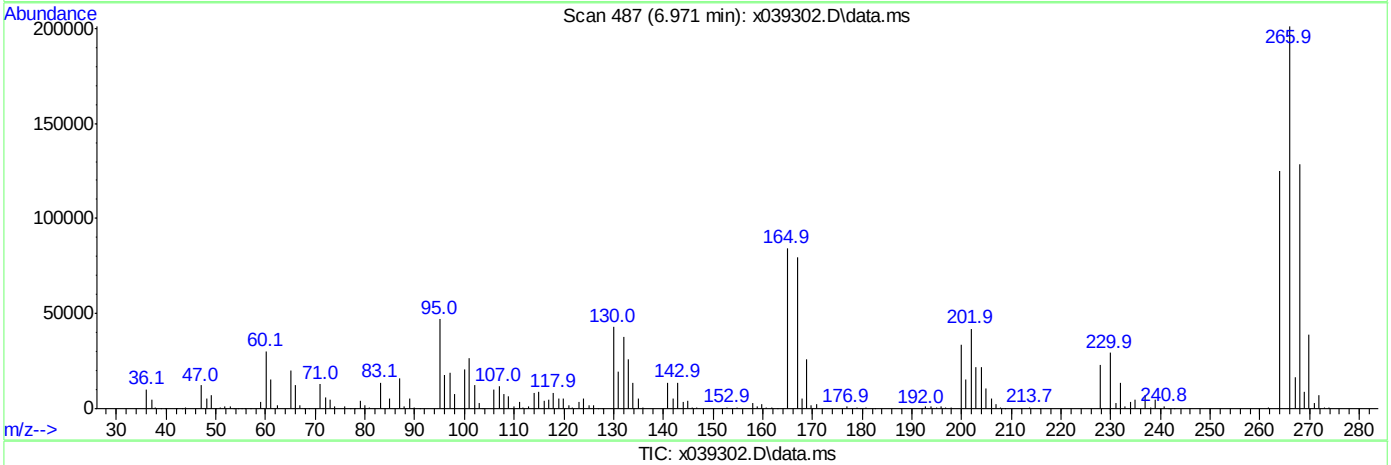
x039302.D dftpp.m Thu Apr 02 14:20:22 2015

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\sx1828\
Data File : x039302.D
Acq On : 1 Apr 2015 9:40 am
Operator : marthav
Sample : dftpp
Misc : op55512,sx1828,1000,,,1,1,water
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Apr 02 09:01:16 2015
Quant Method : C:\msdchem\1\METHODS\dftpp.m
Quant Title : Tune Evaluation
QLast Update : Thu Apr 02 09:00:15 2015
Response via : Initial Calibration





TIC: x039302.D\data.ms

(1) Pentachlorophenol

6.971min (0.000) 49.44

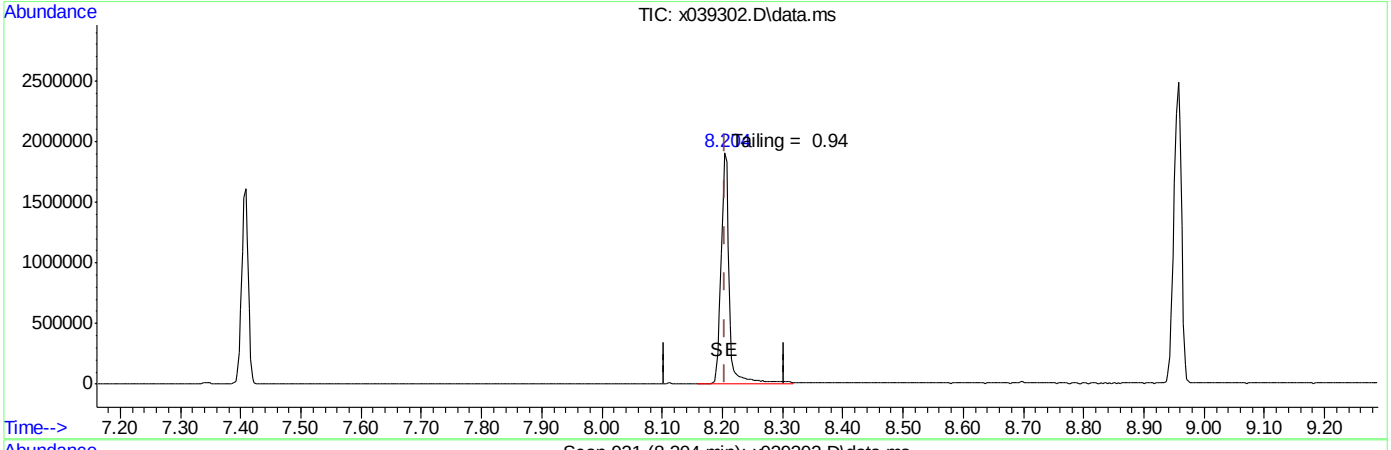
response 1182552

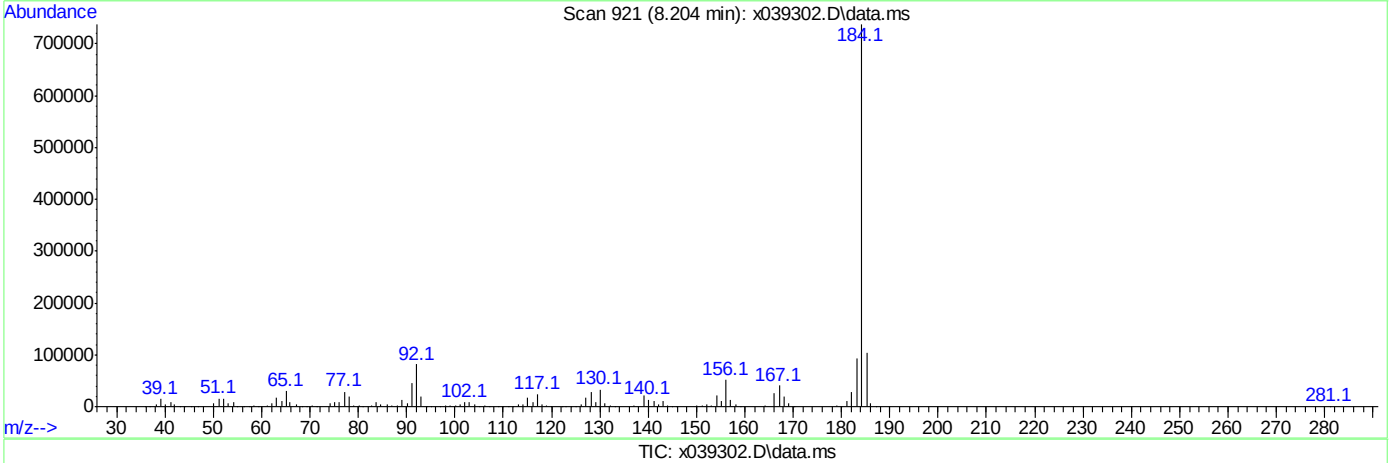
Signal	Exp%	Act%
TIC	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\sx1828\
Data File : x039302.D
Acq On : 1 Apr 2015 9:40 am
Operator : marthav
Sample : dftpp
Misc : op55512,sx1828,1000,,,1,1,water
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Apr 02 09:01:16 2015
Quant Method : C:\msdchem\1\METHODS\dftpp.m
Quant Title : Tune Evaluation
QLast Update : Thu Apr 02 09:00:15 2015
Response via : Initial Calibration





TIC: x039302.D\data.ms

(3) Benzidine

8.204min (0.000) 40.71

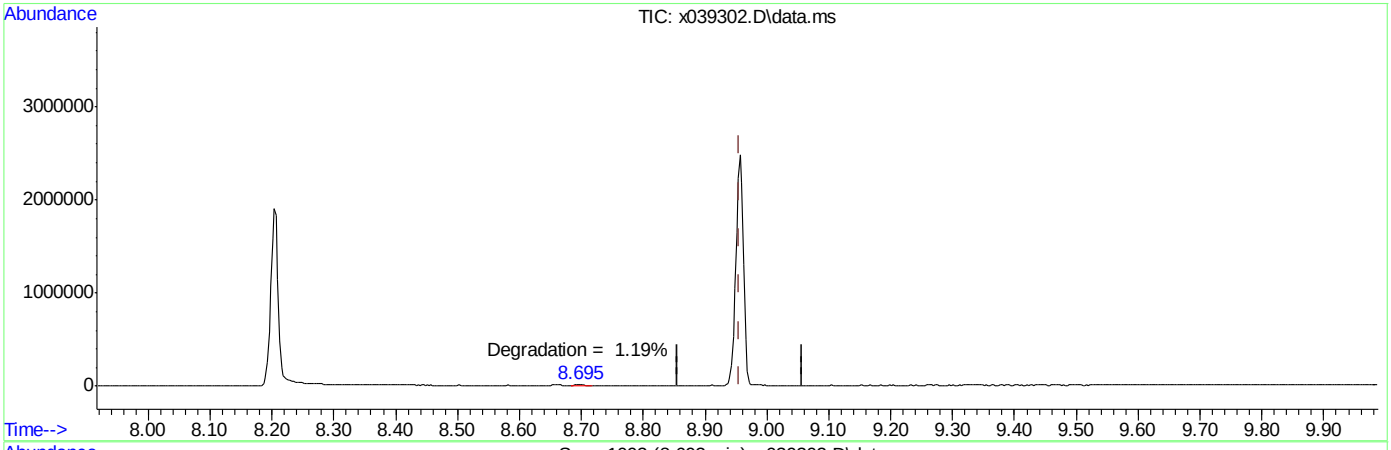
response 1726539

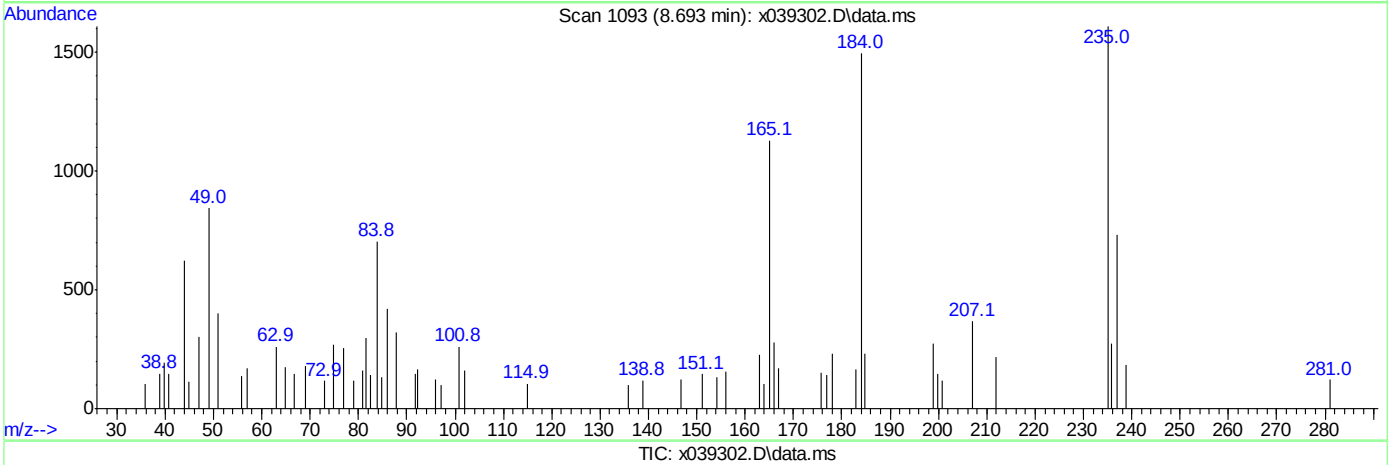
Signal	Exp%	Act%
TIC	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\sx1828\
Data File : x039302.D
Acq On : 1 Apr 2015 9:40 am
Operator : marthav
Sample : dftpp
Misc : op55512,sx1828,1000,,,1,1,water
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Apr 02 09:01:16 2015
Quant Method : C:\msdchem\1\METHODS\dftpp.m
Quant Title : Tune Evaluation
QLast Update : Thu Apr 02 09:00:15 2015
Response via : Initial Calibration





TIC: x039302.D\data.ms

(4) DDT

8.957min (0.000) 60.61

response 2115633

Signal	Exp%	Act%
TIC	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integrations
APPROVED
(compounds with "m" flag)
Mike Eger
04/06/15 15:36

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\st809\
Data File : T017698.D
Acq On : 1 Apr 2015 1:35 pm
Operator : mayrag
Sample : ic809-1
Misc : op55409,st809,250,,,1,1,water
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Apr 06 09:08:07 2015
Quant Method : C:\msdchem\1\METHODS\SIM_LV.M
Quant Title : PAH's by 8270 SIM
QLast Update : Mon Apr 06 09:07:09 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Naphthalene-d8	6.372	136	299934	500.00	ppb	0.00
6) Acenaphthene-d10	7.908	164	156154	500.00	ppb	0.00
11) Phenanthrene-d10	9.213	188	211278	500.00	ppb	0.00
17) Chrysene-d12	11.745	240	164410	500.00	ppb	0.00
22) Perylene-d12	13.939	264	122335	500.00	ppb	0.00
System Monitoring Compounds						
2) Nitrobenzene-d5	5.759	82	21471	74.87	ppb	0.00
Spiked Amount 2000.000	Range 38 - 126		Recovery = 3.74%#			
7) 2-Fluorobiphenyl	7.329	172	39240	79.94	ppb	0.00
Spiked Amount 2000.000	Range 41 - 109		Recovery = 4.00%#			
12) 2,4,6-Tribromophenol	8.611	330	6605	122.76	ppb	0.00
Spiked Amount 4000.000	Range 33 - 118		Recovery = 3.07%#			
19) Terphenyl-d14	10.629	244	25718	86.17	ppb	0.00
Spiked Amount 2000.000	Range 46 - 135		Recovery = 4.31%#			
Target Compounds						Qvalue
3) Naphthalene	6.390	128	59985	81.24	ppb	99
4) 2-Methylnaphthalene	7.000	142	34166	72.01	ppb	99
5) 1-Methylnaphthalene	7.085	142	32779	76.02	ppb	98
8) Acenaphthylene	7.781	152	54408	77.15	ppb	98
9) Acenaphthene	7.933	153	36911	84.93	ppb	95
10) Fluorene	8.393	166	31665	64.20	ppb	99
13) Pentachlorophenol	9.071	266	989m	58.45	ppb	
14) Phenanthrene	9.233	178	45650	81.29	ppb	97
15) Anthracene	9.277	178	24138	41.55	ppb	96
16) Fluoranthene	10.280	202	46056	81.55	ppb	99
18) Pyrene	10.477	202	48184	83.79	ppb	100
20) Benzo[a]anthracene	11.730	228	17801	40.78	ppb	99
21) Chrysene	11.772	228	17161	40.82	ppb	99
23) Benzo[b]fluoranthene	13.302	252	13193	37.14	ppb	99
24) Benzo[k]fluoranthene	13.347	252	14711	39.96	ppb	99
25) Benzo[a]pyrene	13.836	252	12376	38.24	ppb	100
26) Indeno[1,2,3-cd]pyrene	15.885	276	10181	40.95	ppb	97
27) Dibenz[a,h]anthracene	15.953	278	10058	40.29	ppb	95
28) Benzo[g,h,i]perylene	16.384	276	11937	41.40	ppb	95

(#) = qualifier out of range (m) = manual integration (+) = signals summed

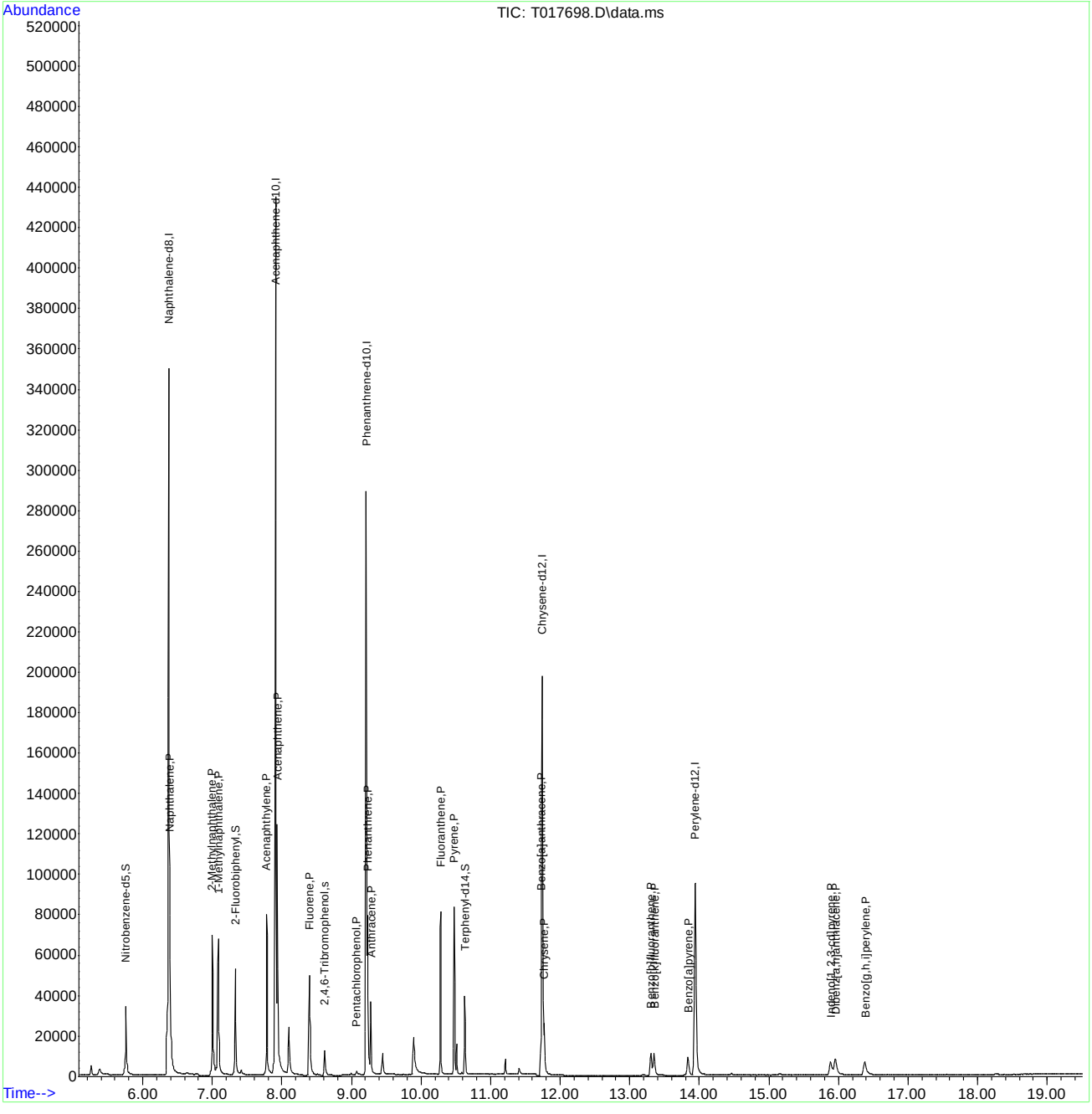
7.6.1

7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\st809\
Data File : T017698.D
Acq On : 1 Apr 2015 1:35 pm
Operator : mayrag
Sample : ic809-1
Misc : op55409,st809,250,,,1,1,water
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Apr 06 09:08:07 2015
Quant Method : C:\msdchem\1\METHODS\SIM_LV.M
Quant Title : PAH's by 8270 SIM
QLast Update : Mon Apr 06 09:07:09 2015
Response via : Initial Calibration



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Manual Integration Approval Summary

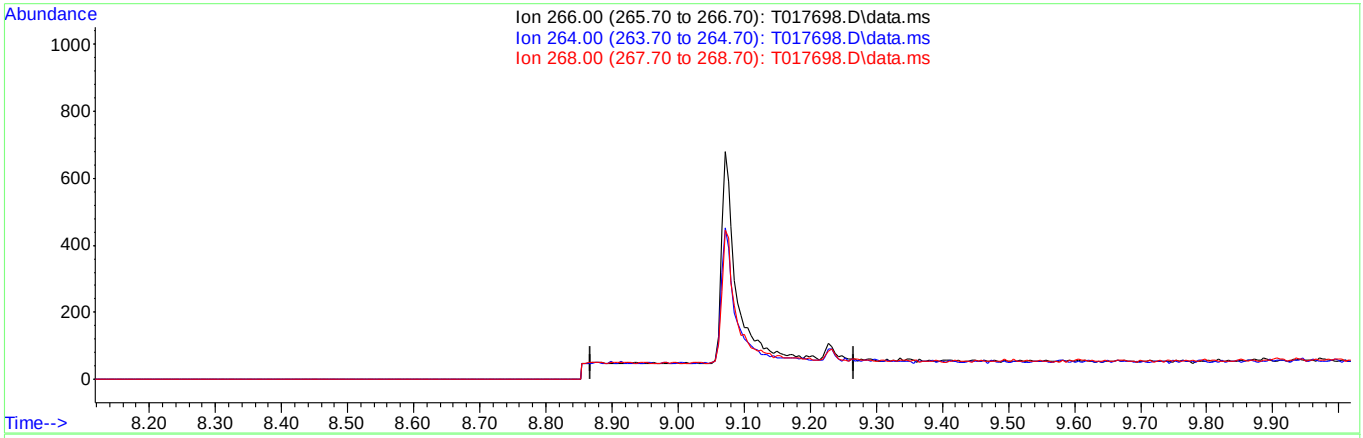
Sample Number:	ST809-IC809	**Method:**	SW846 8270D BY SIM
Lab FileID:	T017698.D	**Analyst approved:**	04/06/15 14:26 Mayra Gonzalez
Injection Time:	04/01/15 13:35	**Supervisor approved:**	04/06/15 15:36 Mike Eger

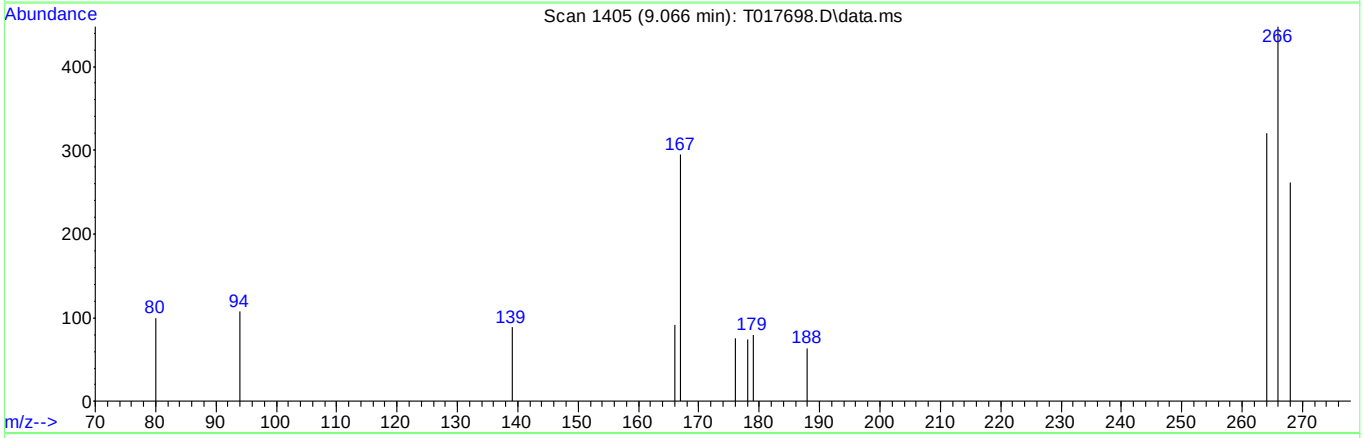
Parameter	CAS	Sig#	R.T. (min.)	Reason
Pentachlorophenol	87-86-5		9.07	Missed peak

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\st809\
Data File : T017698.D
Acq On : 1 Apr 2015 1:35 pm
Operator : mayrag
Sample : ic809-1
Misc : op55409,st809,250,,,1,1,water
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Apr 06 09:07:42 2015
Quant Method : C:\msdchem\1\METHODS\SIM_LV.M
Quant Title : PAH's by 8270 SIM
QLast Update : Mon Apr 06 09:07:09 2015
Response via : Initial Calibration





TIC: T017698.D\data.ms

(13) Pentachlorophenol (P)

9.068min (-9.068) 0.00ppb

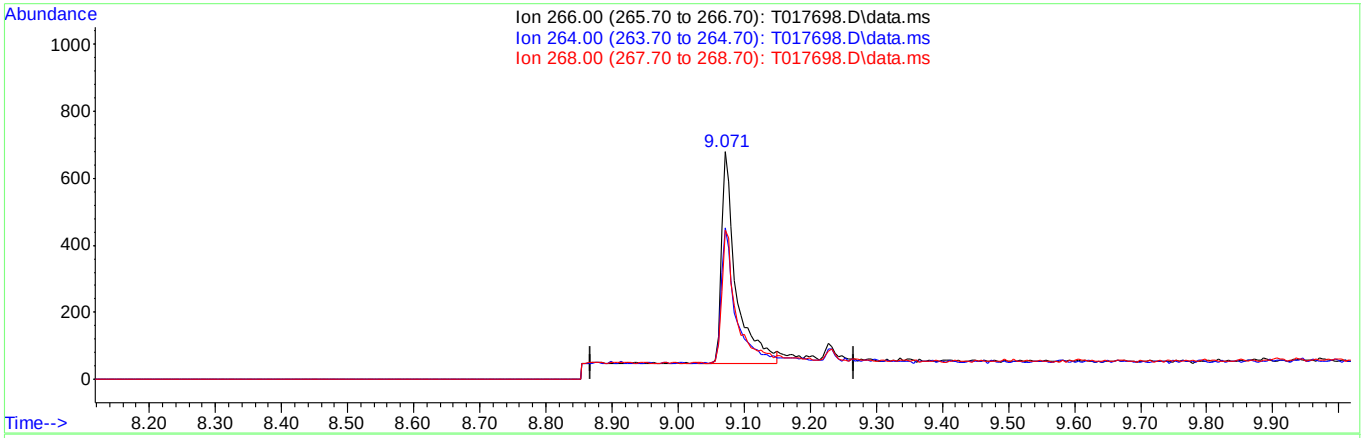
response 0

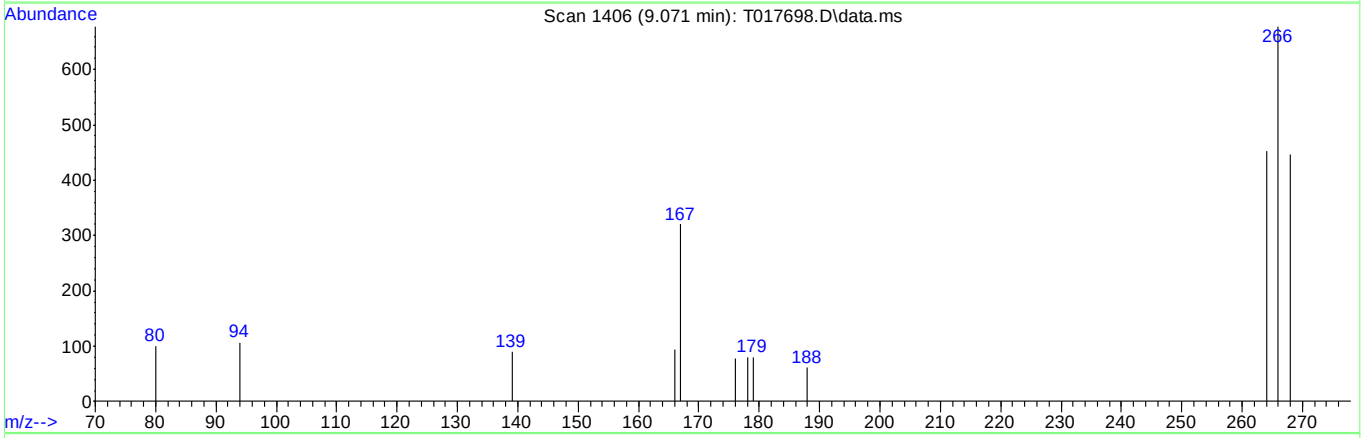
Ion	Exp%	Act%
266.00	100	0.00
264.00	60.90	0.00#
268.00	62.00	0.00#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\st809\
Data File : T017698.D
Acq On : 1 Apr 2015 1:35 pm
Operator : mayrag
Sample : ic809-1
Misc : op55409,st809,250,,,1,1,water
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Apr 06 09:07:42 2015
Quant Method : C:\msdchem\1\METHODS\SIM_LV.M
Quant Title : PAH's by 8270 SIM
QLast Update : Mon Apr 06 09:07:09 2015
Response via : Initial Calibration





TIC: T017698.D\data.ms

(13) Pentachlorophenol (P)

9.071min (+0.003) 58.45ppb m

response 989

Ion	Exp%	Act%
266.00	100	100
264.00	60.90	66.67
268.00	62.00	65.78
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\st809\
Data File : T017699.D
Acq On : 1 Apr 2015 2:05 pm
Operator : mayrag
Sample : ic809-2
Misc : op55409,st809,250,,,1,1,water
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Apr 06 09:09:45 2015
Quant Method : C:\msdchem\1\METHODS\SIM_LV.M
Quant Title : PAH's by 8270 SIM
QLast Update : Mon Apr 06 09:07:09 2015
Response via : Initial Calibration

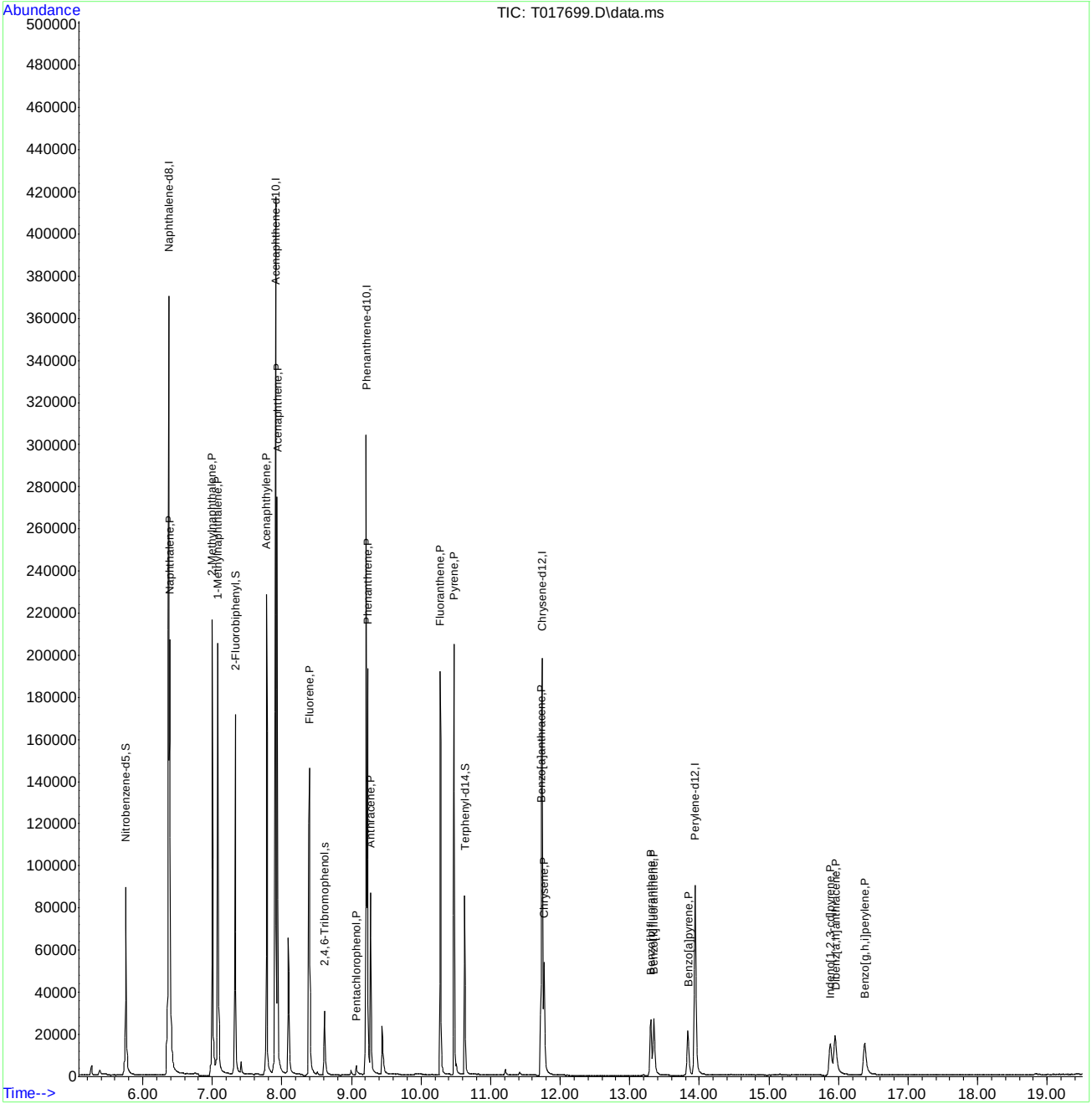
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Naphthalene-d8	6.372	136	298840	500.00	ppb	0.00
6) Acenaphthene-d10	7.908	164	143204	500.00	ppb	0.00
11) Phenanthrene-d10	9.211	188	199760	500.00	ppb	0.00
17) Chrysene-d12	11.742	240	154583	500.00	ppb	0.00
22) Perylene-d12	13.939	264	113944	500.00	ppb	0.00
System Monitoring Compounds						
2) Nitrobenzene-d5	5.759	82	52595	184.08	ppb	0.00
Spiked Amount 2000.000	Range 38 - 126		Recovery = 9.20%#			
7) 2-Fluorobiphenyl	7.327	172	104065	231.17	ppb	0.00
Spiked Amount 2000.000	Range 41 - 109		Recovery = 11.56%#			
12) 2,4,6-Tribromophenol	8.611	330	16033	315.16	ppb	0.00
Spiked Amount 4000.000	Range 33 - 118		Recovery = 7.88%#			
19) Terphenyl-d14	10.627	244	61186	218.04	ppb	0.00
Spiked Amount 2000.000	Range 46 - 135		Recovery = 10.90%#			
Target Compounds						Qvalue
3) Naphthalene	6.390	128	152342	207.07	ppb	99
4) 2-Methylnaphthalene	6.998	142	89854	190.08	ppb	98
5) 1-Methylnaphthalene	7.082	142	89617	208.60	ppb	98
8) Acenaphthylene	7.781	152	143272	221.54	ppb	98
9) Acenaphthene	7.933	153	83378	209.19	ppb	96
10) Fluorene	8.393	166	81163	179.45	ppb	99
13) Pentachlorophenol	9.068	266	2392	149.51	ppb	94
14) Phenanthrene	9.231	178	111120	209.28	ppb	99
15) Anthracene	9.275	178	57993	105.59	ppb	99
16) Fluoranthene	10.278	202	110660	207.25	ppb	97
18) Pyrene	10.475	202	115058	212.80	ppb	98
20) Benzo[a]anthracene	11.730	228	41371	100.81	ppb	100
21) Chrysene	11.772	228	42104	106.51	ppb	99
23) Benzo[b]fluoranthene	13.299	252	31562	95.41	ppb	100
24) Benzo[k]fluoranthene	13.342	252	36381	106.11	ppb	99
25) Benzo[a]pyrene	13.836	252	29573	98.12	ppb	99
26) Indeno[1,2,3-cd]pyrene	15.880	276	23656	102.15	ppb	96
27) Dibenz[a,h]anthracene	15.951	278	24179	103.98	ppb	97
28) Benzo[g,h,i]perylene	16.379	276	28921	107.69	ppb	97

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\st809\
Data File : T017699.D
Acq On : 1 Apr 2015 2:05 pm
Operator : mayrag
Sample : ic809-2
Misc : op55409,st809,250,,,1,1,water
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Apr 06 09:09:45 2015
Quant Method : C:\msdchem\1\METHODS\SIM_LV.M
Quant Title : PAH's by 8270 SIM
QLast Update : Mon Apr 06 09:07:09 2015
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\st809\
Data File : T017700.D
Acq On : 1 Apr 2015 2:35 pm
Operator : mayrag
Sample : ic809-3
Misc : op55409,st809,250,,,1,1,water
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Apr 06 09:10:58 2015
Quant Method : C:\msdchem\1\METHODS\SIM_LV.M
Quant Title : PAH's by 8270 SIM
QLast Update : Mon Apr 06 09:07:09 2015
Response via : Initial Calibration

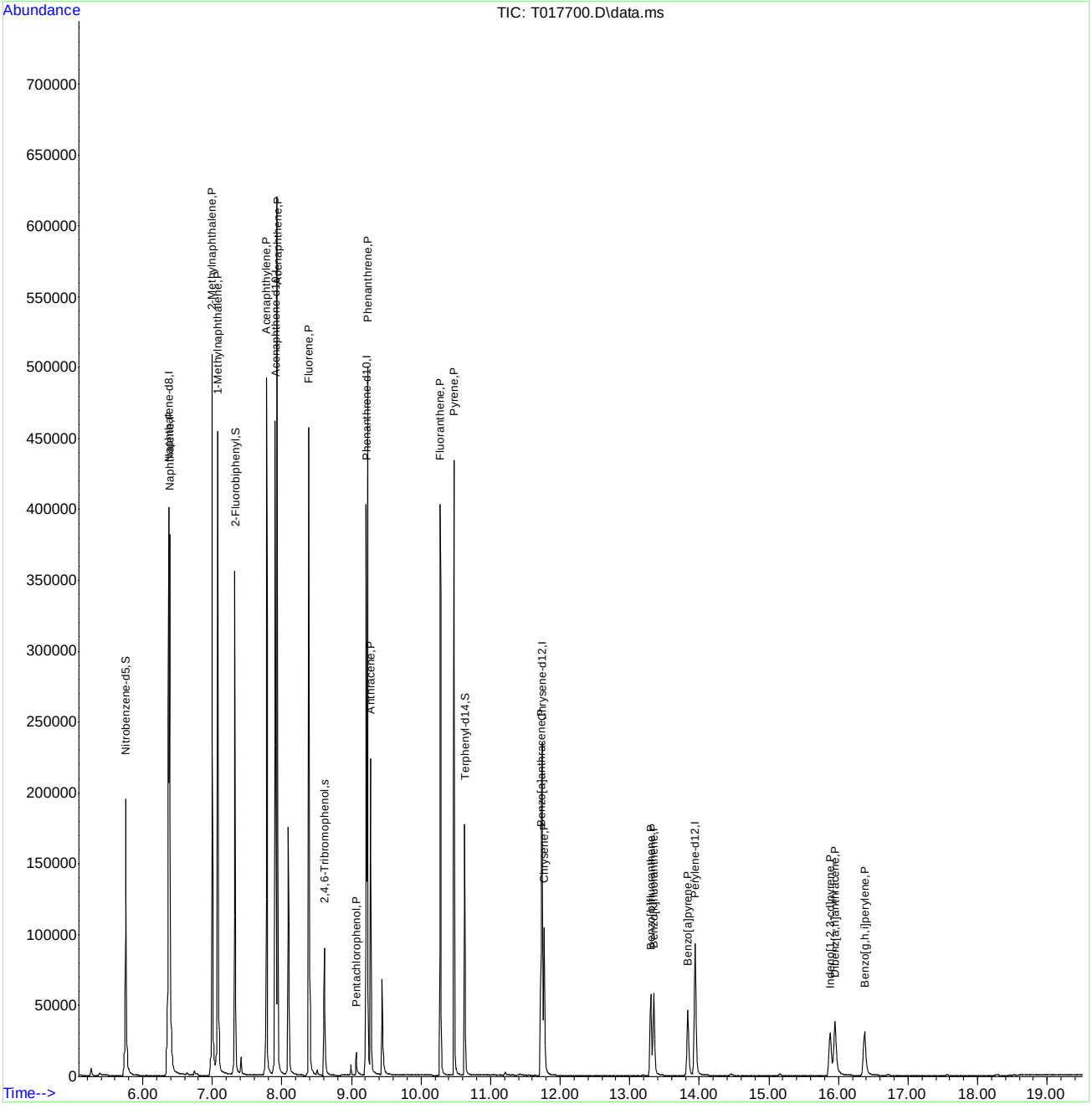
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Naphthalene-d8	6.372	136	312026	500.00	ppb	0.00
6) Acenaphthene-d10	7.904	164	157126	500.00	ppb	0.00
11) Phenanthrene-d10	9.211	188	256582	500.00	ppb	0.00
17) Chrysene-d12	11.742	240	164667	500.00	ppb	0.00
22) Perylene-d12	13.937	264	121657	500.00	ppb	0.00
System Monitoring Compounds						
2) Nitrobenzene-d5	5.756	82	112751	377.95	ppb	0.00
Spiked Amount 2000.000	Range 38 - 126		Recovery = 18.90%#			
7) 2-Fluorobiphenyl	7.325	172	206986	419.06	ppb	0.00
Spiked Amount 2000.000	Range 41 - 109		Recovery = 20.95%#			
12) 2,4,6-Tribromophenol	8.609	330	38555	590.03	ppb	0.00
Spiked Amount 4000.000	Range 33 - 118		Recovery = 14.75%#			
19) Terphenyl-d14	10.627	244	122231	408.89	ppb	0.00
Spiked Amount 2000.000	Range 46 - 135		Recovery = 20.44%#			
Target Compounds						Qvalue
3) Naphthalene	6.390	128	301828	392.92	ppb	100
4) 2-Methylnaphthalene	6.996	142	187635	380.16	ppb	98
5) 1-Methylnaphthalene	7.083	142	179983	401.24	ppb	98
8) Acenaphthylene	7.781	152	288022	405.90	ppb	99
9) Acenaphthene	7.933	153	182746	417.88	ppb	96
10) Fluorene	8.391	166	203723	410.52	ppb	98
13) Pentachlorophenol	9.069	266	7112	346.08	ppb	99
14) Phenanthrene	9.231	178	275044	403.30	ppb	99
15) Anthracene	9.275	178	141863	201.09	ppb	99
16) Fluoranthene	10.278	202	224580	327.46	ppb	97
18) Pyrene	10.475	202	230575	400.33	ppb	98
20) Benzo[a]anthracene	11.727	228	84206	192.62	ppb	99
21) Chrysene	11.773	228	84046	199.58	ppb	99
23) Benzo[b]fluoranthene	13.300	252	66743	188.96	ppb	100
24) Benzo[k]fluoranthene	13.345	252	72458	197.94	ppb	99
25) Benzo[a]pyrene	13.834	252	61647	191.56	ppb	99
26) Indeno[1,2,3-cd]pyrene	15.880	276	43191	174.67	ppb	98
27) Dibenz[a,h]anthracene	15.948	278	44842	180.61	ppb	97
28) Benzo[g,h,i]perylene	16.377	276	49823	173.76	ppb	97

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\st809\
Data File : T017700.D
Acq On : 1 Apr 2015 2:35 pm
Operator : mayrag
Sample : ic809-3
Misc : op55409,st809,250,,,1,1,water
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Apr 06 09:10:58 2015
Quant Method : C:\msdchem\1\METHODS\SIM_LV.M
Quant Title : PAH's by 8270 SIM
QLast Update : Mon Apr 06 09:07:09 2015
Response via : Initial Calibration



SIM_LV.M Mon Apr 06 09:14:42 2015 Page: 2

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\st809\
Data File : T017701.D
Acq On : 1 Apr 2015 3:06 pm
Operator : mayrag
Sample : icc809-4
Misc : op55409,st809,250,,,1,1,water
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Apr 06 09:06:57 2015
Quant Method : C:\msdchem\1\METHODS\SIM_LV.M
Quant Title : PAH's by 8270 SIM
QLast Update : Mon Apr 06 09:06:53 2015
Response via : Initial Calibration

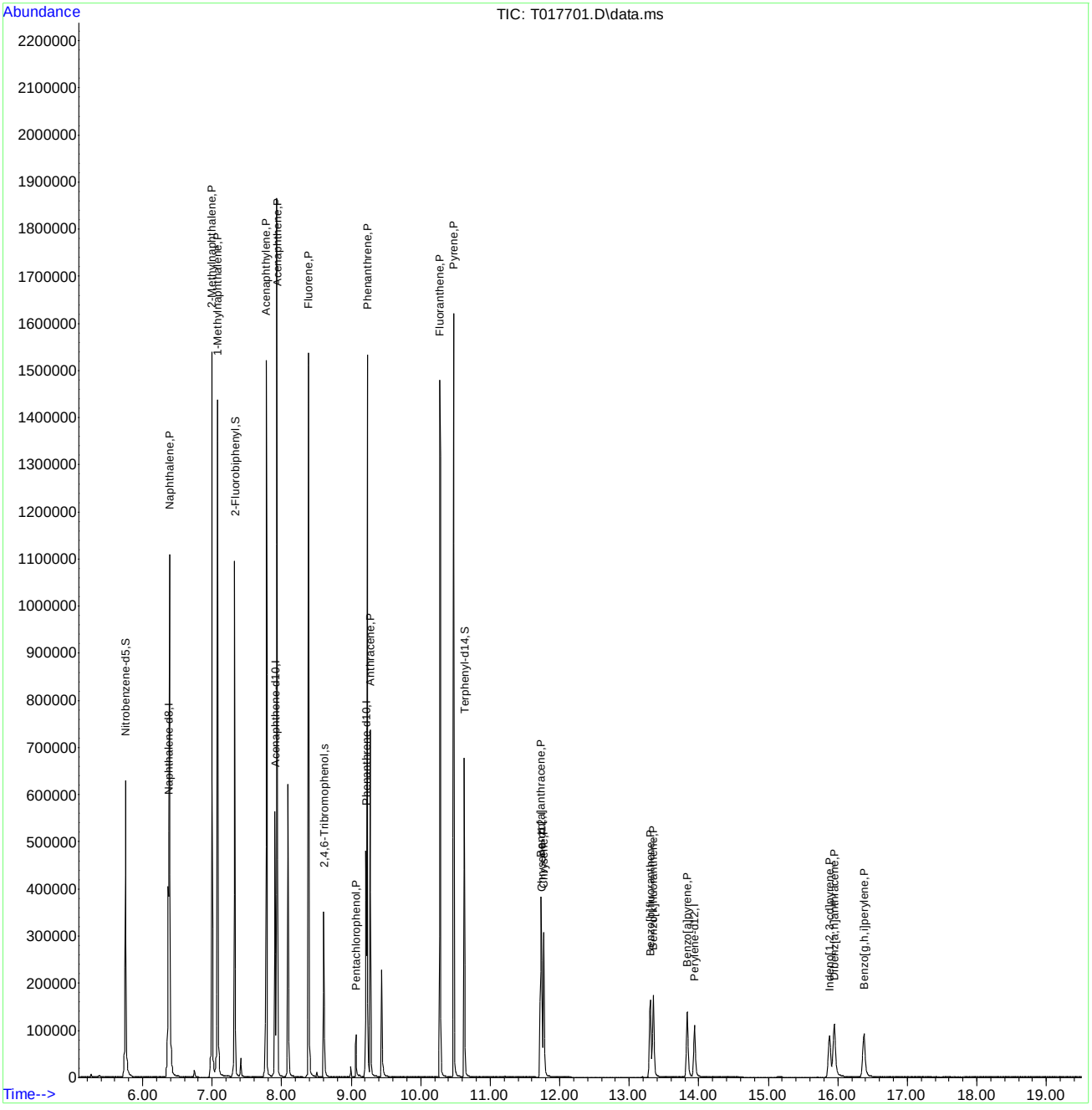
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) Naphthalene-d8	6.369	136	354871	500.00 ppb	0.00
6) Acenaphthene-d10	7.908	164	183614	500.00 ppb	0.00
11) Phenanthrene-d10	9.211	188	297615	500.00 ppb	0.00
17) Chrysene-d12	11.742	240	187477	500.00 ppb	0.00
22) Perylene-d12	13.937	264	138051	500.00 ppb	0.00
System Monitoring Compounds					
2) Nitrobenzene-d5	5.756	82	333112	981.80 ppb	0.00
Spiked Amount 2000.000	Range 38 - 126		Recovery = 49.09%		
7) 2-Fluorobiphenyl	7.325	172	605347	1048.76 ppb	0.00
Spiked Amount 2000.000	Range 41 - 109		Recovery = 52.44%		
12) 2,4,6-Tribromophenol	8.606	330	120971	1874.30 ppb	0.00
Spiked Amount 4000.000	Range 33 - 118		Recovery = 46.86%		
19) Terphenyl-d14	10.627	244	437498	1285.48 ppb	0.00
Spiked Amount 2000.000	Range 46 - 135		Recovery = 64.27%		
Target Compounds					Qvalue
3) Naphthalene	6.387	128	881483	1008.96 ppb	99
4) 2-Methylnaphthalene	6.996	142	549445	978.80 ppb	98
5) 1-Methylnaphthalene	7.080	142	526166	1031.37 ppb	96
8) Acenaphthylene	7.781	152	864165	1042.16 ppb	99
9) Acenaphthene	7.933	153	526388	1030.04 ppb	95
10) Fluorene	8.391	166	582086	1003.74 ppb	98
13) Pentachlorophenol	9.069	266	32595	1324.63 ppb	100
14) Phenanthrene	9.231	178	807023	1020.20 ppb	99
15) Anthracene	9.275	178	418859	511.86 ppb	99
16) Fluoranthene	10.278	202	805526	1012.60 ppb	96
18) Pyrene	10.475	202	831404	1267.88 ppb	98
20) Benzo[a]anthracene	11.730	228	243683	489.60 ppb	100
21) Chrysene	11.772	228	238287	497.01 ppb	100
23) Benzo[b]fluoranthene	13.302	252	194142	484.38 ppb	100
24) Benzo[k]fluoranthene	13.342	252	208907	502.92 ppb	100
25) Benzo[a]pyrene	13.834	252	178517	488.85 ppb	100
26) Indeno[1,2,3-cd]pyrene	15.880	276	128543	449.51 ppb	97
27) Dibenz[a,h]anthracene	15.948	278	136183	484.77 ppb	97
28) Benzo[g,h,i]perylene	16.377	276	145791	448.08 ppb	98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\st809\
Data File : T017701.D
Acq On : 1 Apr 2015 3:06 pm
Operator : mayrag
Sample : icc809-4
Misc : op55409,st809,250,,,1,1,water
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Apr 06 09:06:57 2015
Quant Method : C:\msdchem\1\METHODS\SIM_LV.M
Quant Title : PAH's by 8270 SIM
QLast Update : Mon Apr 06 09:06:53 2015
Response via : Initial Calibration

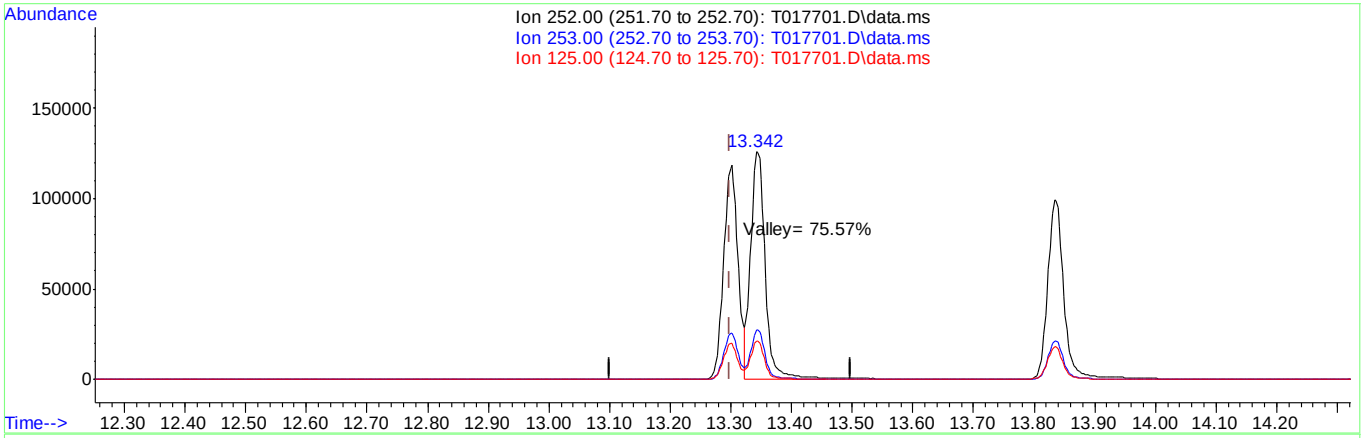


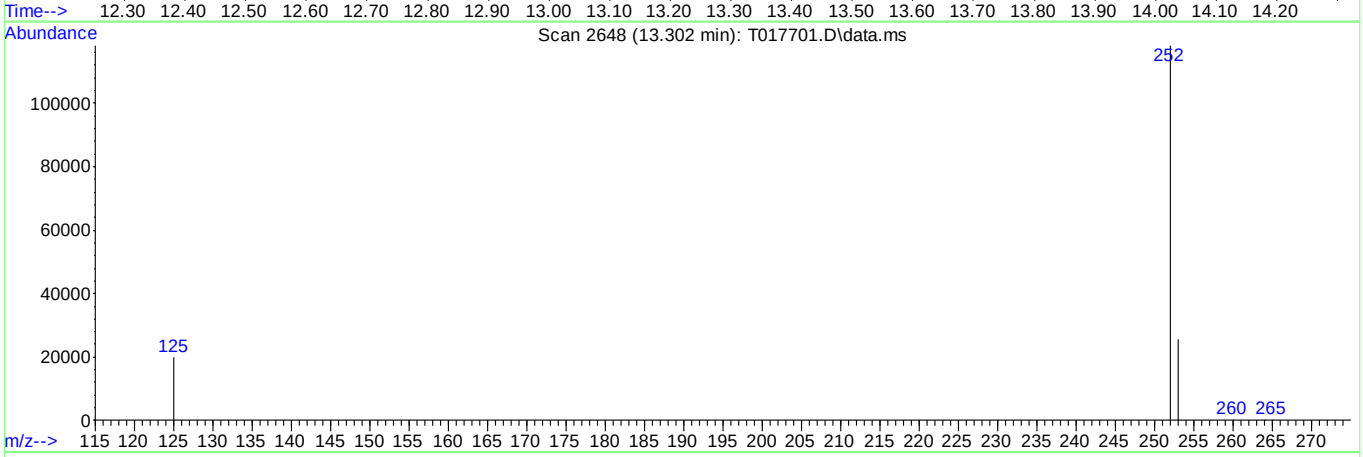
ACCUTEST LABORATORIES FA23189

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\st809\
Data File : T017701.D
Acq On : 1 Apr 2015 3:06 pm
Operator : mayrag
Sample : icc809-4
Misc : op55409,st809,250,,,1,1,water
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Apr 06 09:06:57 2015
Quant Method : C:\msdchem\1\METHODS\SIM_LV.M
Quant Title : PAH's by 8270 SIM
QLast Update : Mon Apr 06 09:06:53 2015
Response via : Initial Calibration





TIC: T017701.D\data.ms

(23) Benzo[b]fluoranthene (P)

13.302min (+0.002) 484.38ppb

response 194142

Ion	Exp%	Act%
252.00	100	100
253.00	21.90	21.65
125.00	16.60	16.66
0.00	0.00	0.00

ACCUTEST LABORATORIES FA23189

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\st809\
Data File : T017702.D
Acq On : 1 Apr 2015 3:36 pm
Operator : mayrag
Sample : ic809-5
Misc : op55409,st809,250,,,1,1,water
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Apr 06 09:15:29 2015
Quant Method : C:\msdchem\1\METHODS\SIM_LV.M
Quant Title : PAH's by 8270 SIM
QLast Update : Mon Apr 06 09:07:09 2015
Response via : Initial Calibration

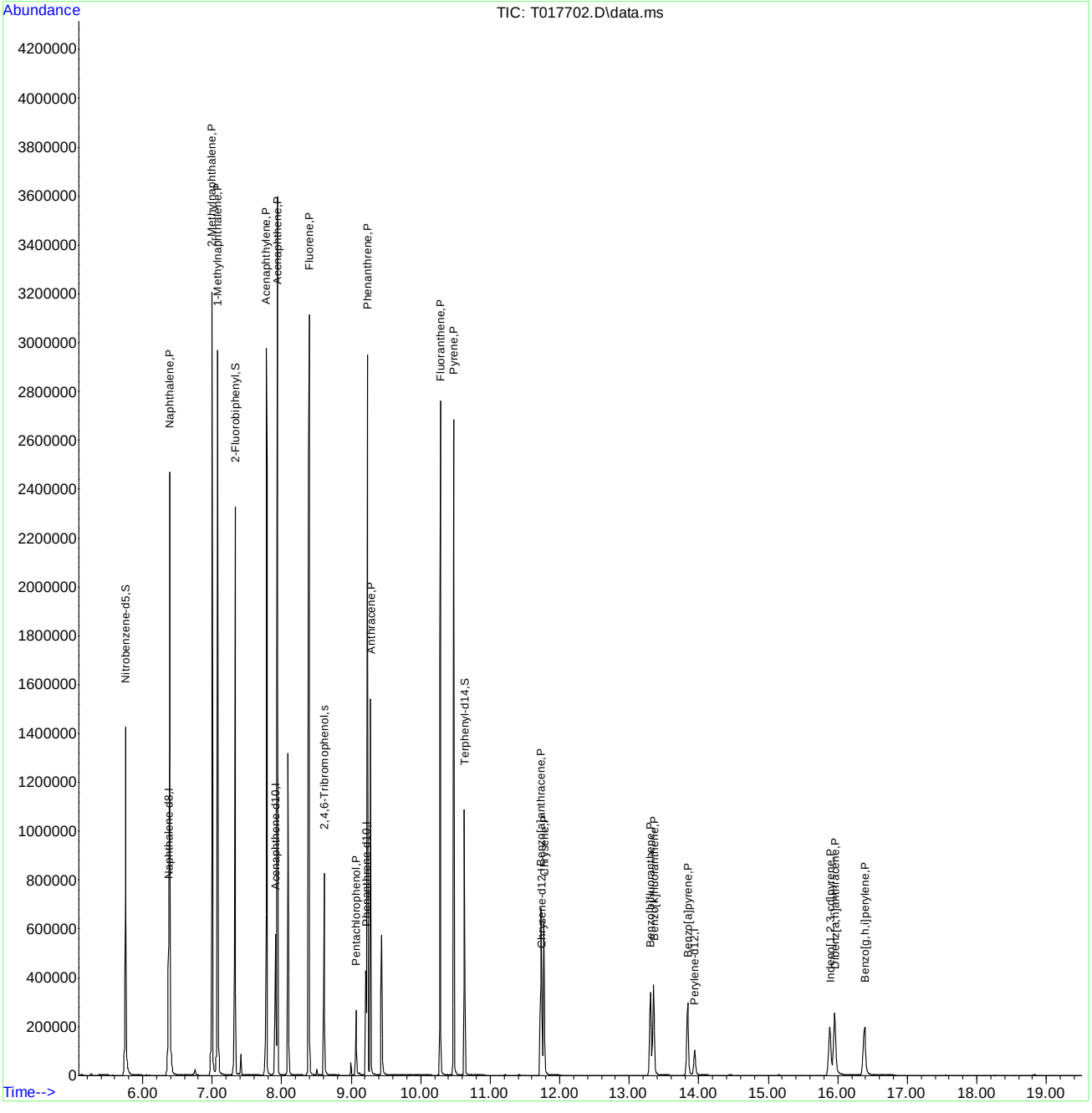
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) Naphthalene-d8	6.372	136	340402	500.00 ppb	0.00
6) Acenaphthene-d10	7.908	164	173261	500.00 ppb	0.00
11) Phenanthrene-d10	9.213	188	287831	500.00 ppb	0.00
17) Chrysene-d12	11.745	240	180579	500.00 ppb	0.00
22) Perylene-d12	13.939	264	131901	500.00 ppb	0.00
System Monitoring Compounds					
2) Nitrobenzene-d5	5.756	82	676259	2077.90 ppb	0.00
Spiked Amount 2000.000	Range 38 - 126		Recovery = 103.90%		
7) 2-Fluorobiphenyl	7.327	172	1212210	2225.65 ppb	0.00
Spiked Amount 2000.000	Range 41 - 109		Recovery = 111.28%#		
12) 2,4,6-Tribromophenol	8.609	330	266918	3641.35 ppb	0.00
Spiked Amount 4000.000	Range 33 - 118		Recovery = 91.03%		
19) Terphenyl-d14	10.629	244	704935	2150.40 ppb	0.00
Spiked Amount 2000.000	Range 46 - 135		Recovery = 107.52%		
Target Compounds					Qvalue
3) Naphthalene	6.390	128	1781964	2126.37 ppb	99
4) 2-Methylnaphthalene	6.998	142	1144830	2126.12 ppb	97
5) 1-Methylnaphthalene	7.082	142	1053741	2153.30 ppb	97
8) Acenaphthylene	7.781	152	1740650	2224.61 ppb	98
9) Acenaphthene	7.937	153	1051975	2181.52 ppb	97
10) Fluorene	8.393	166	1193469	2180.97 ppb	98
13) Pentachlorophenol	9.071	266	92179	3998.55 ppb	99
14) Phenanthrene	9.233	178	1627927	2127.90 ppb	98
15) Anthracene	9.277	178	856321	1082.03 ppb	99
16) Fluoranthene	10.284	202	1579578	2053.13 ppb	97
18) Pyrene	10.477	202	1420458	2248.93 ppb	94
20) Benzo[a]anthracene	11.730	228	505739	1054.92 ppb	100
21) Chrysene	11.775	228	488039	1056.82 ppb	99
23) Benzo[b]fluoranthene	13.304	252	402480	1051.00 ppb	100
24) Benzo[k]fluoranthene	13.350	252	430343	1084.31 ppb	99
25) Benzo[a]pyrene	13.839	252	378966	1086.15 ppb	100
26) Indeno[1,2,3-cd]pyrene	15.883	276	271701	1013.48 ppb	97
27) Dibenz[a,h]anthracene	15.953	278	287188	1066.88 ppb	97
28) Benzo[g,h,i]perylene	16.387	276	299123	962.21 ppb	97

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\st809\
Data File : T017702.D
Acq On : 1 Apr 2015 3:36 pm
Operator : mayrag
Sample : ic809-5
Misc : op55409,st809,250,,,1,1,water
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Apr 06 09:15:29 2015
Quant Method : C:\msdchem\1\METHODS\SIM_LV.M
Quant Title : PAH's by 8270 SIM
QLast Update : Mon Apr 06 09:07:09 2015
Response via : Initial Calibration



SIM_LV.M Mon Apr 06 09:15:49 2015 Page: 2

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\st809\
Data File : T017703.D
Acq On : 1 Apr 2015 4:07 pm
Operator : mayrag
Sample : ic809-6
Misc : op55409,st809,250,,,1,1,water
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Apr 06 09:15:53 2015
Quant Method : C:\msdchem\1\METHODS\SIM_LV.M
Quant Title : PAH's by 8270 SIM
QLast Update : Mon Apr 06 09:07:09 2015
Response via : Initial Calibration

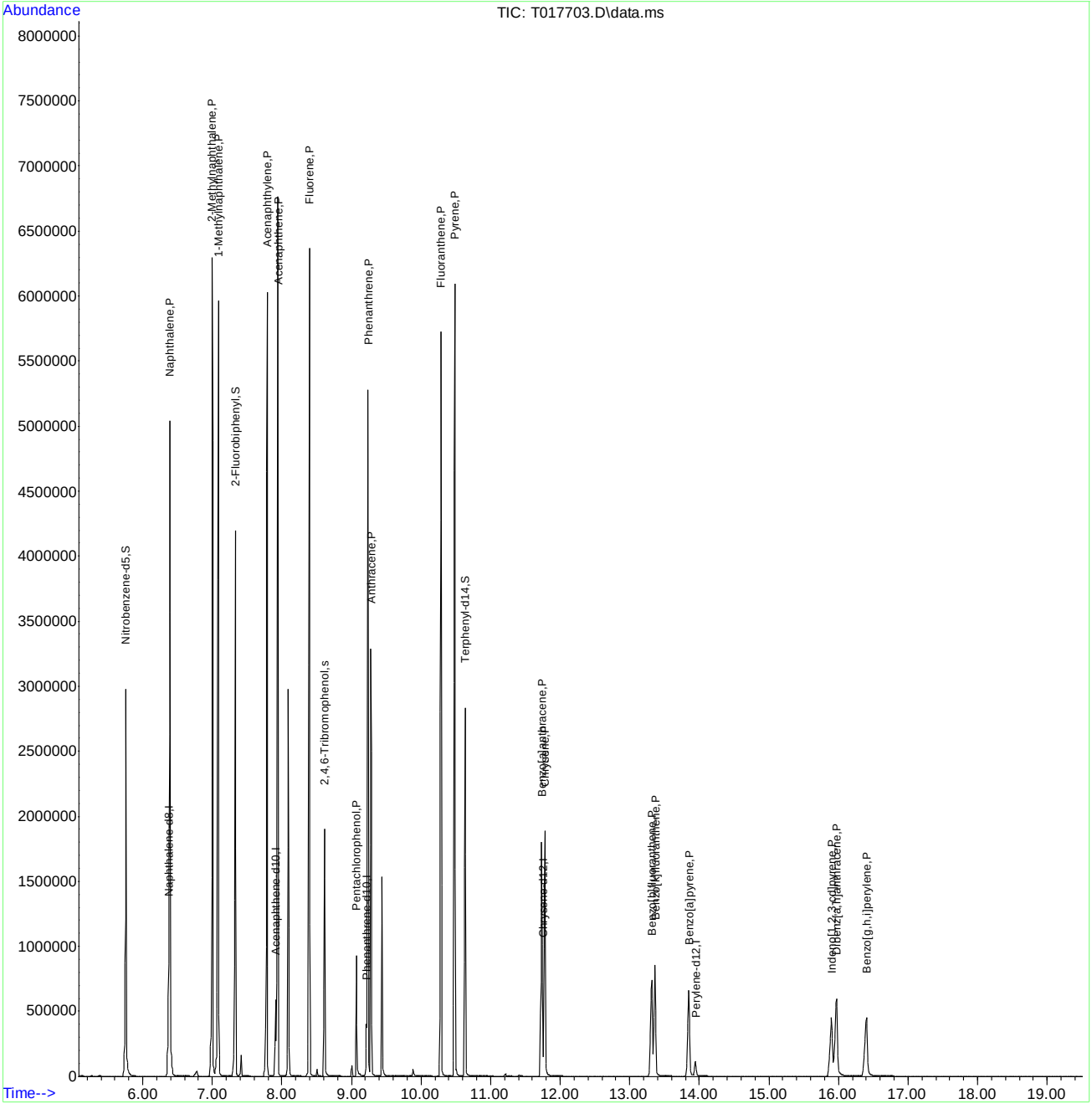
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) Naphthalene-d8	6.372	136	335343	500.00 ppb	0.00
6) Acenaphthene-d10	7.909	164	168882	500.00 ppb	0.00
11) Phenanthrene-d10	9.211	188	275426	500.00 ppb	0.00
17) Chrysene-d12	11.747	240	229074	500.00 ppb	0.00
22) Perylene-d12	13.942	264	131567	500.00 ppb	0.00
System Monitoring Compounds					
2) Nitrobenzene-d5	5.759	82	1582355	4935.37 ppb	0.00
Spiked Amount 2000.000	Range 38 - 126		Recovery = 246.77%#		
7) 2-Fluorobiphenyl	7.329	172	2582383	4864.26 ppb	0.00
Spiked Amount 2000.000	Range 41 - 109		Recovery = 243.21%#		
12) 2,4,6-Tribromophenol	8.614	330	670206	9554.88 ppb	0.00
Spiked Amount 4000.000	Range 33 - 118		Recovery = 238.87%#		
19) Terphenyl-d14	10.635	244	1977687	4755.75 ppb	0.00
Spiked Amount 2000.000	Range 46 - 135		Recovery = 237.79%#		
Target Compounds					Qvalue
3) Naphthalene	6.393	128	4131433	5004.30 ppb	100
4) 2-Methylnaphthalene	7.003	142	2552152	4811.23 ppb	98
5) 1-Methylnaphthalene	7.087	142	2327558	4828.08 ppb	98
8) Acenaphthylene	7.785	152	3828406	5019.71 ppb	98
9) Acenaphthene	7.941	153	2230038	4744.41 ppb	98
10) Fluorene	8.396	166	2571496	4821.05 ppb	99
13) Pentachlorophenol	9.073	266	297171	13471.30 ppb	100
14) Phenanthrene	9.241	178	3441891	4701.60 ppb	97
15) Anthracene	9.280	178	1921595	2537.45 ppb	99
16) Fluoranthene	10.286	202	3636493	4939.58 ppb	96
18) Pyrene	10.483	202	3741136	4669.19 ppb	94
20) Benzo[a]anthracene	11.735	228	1527504	2511.69 ppb	100
21) Chrysene	11.783	228	1442037	2461.58 ppb	100
23) Benzo[b]fluoranthene	13.315	252	958062	2508.14 ppb	99
24) Benzo[k]fluoranthene	13.362	252	989554	2499.66 ppb	98
25) Benzo[a]pyrene	13.849	252	899252	2583.89 ppb	99
26) Indeno[1,2,3-cd]pyrene	15.901	276	666326	2491.78 ppb	96
27) Dibenz[a,h]anthracene	15.971	278	696263	2593.12 ppb	97
28) Benzo[g,h,i]perylene	16.405	276	720231	2322.69 ppb	97

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\st809\
Data File : T017703.D
Acq On : 1 Apr 2015 4:07 pm
Operator : mayrag
Sample : ic809-6
Misc : op55409,st809,250,,,1,1,water
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Apr 06 09:15:53 2015
Quant Method : C:\msdchem\1\METHODS\SIM_LV.M
Quant Title : PAH's by 8270 SIM
QLast Update : Mon Apr 06 09:07:09 2015
Response via : Initial Calibration



SIM_LV.M Mon Apr 06 09:16:08 2015 Page: 2

T017704.D

Manual Integrations APPROVED (compounds with "m" flag)

Mike Eger 04/06/15 15:36

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\st809\
Data File : T017704.D
Acq On : 1 Apr 2015 4:37 pm
Operator : mayrag
Sample : ic809-7
Misc : op55409,st809,250,,,1,1,water
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Apr 06 09:16:41 2015
Quant Method : C:\msdchem\1\METHODS\SIM_LV.M
Quant Title : PAH's by 8270 SIM
QLast Update : Mon Apr 06 09:07:09 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) Naphthalene-d8	6.372	136	330537	500.00 ppb	0.00
6) Acenaphthene-d10	7.908	164	162978	500.00 ppb	0.00
11) Phenanthrene-d10	9.216	188	287088	500.00 ppb	0.00
17) Chrysene-d12	11.755	240	224107	500.00 ppb	0.01
22) Perylene-d12	13.947	264	128672	500.00 ppb	0.01
System Monitoring Compounds					
2) Nitrobenzene-d5	5.765	82	3013952	9537.20 ppb	0.01
Spiked Amount 2000.000	Range 38 - 126		Recovery = 476.86%#		
7) 2-Fluorobiphenyl	7.335	172	4714092	9201.28 ppb	0.00
Spiked Amount 2000.000	Range 41 - 109		Recovery = 460.06%#		
12) 2,4,6-Tribromophenol	8.621	330	1333777	18242.73 ppb	0.02
Spiked Amount 4000.000	Range 33 - 118		Recovery = 456.07%#		
19) Terphenyl-d14	10.643	244	3748423	9213.61 ppb	0.02
Spiked Amount 2000.000	Range 46 - 135		Recovery = 460.68%#		
Target Compounds					Qvalue
3) Naphthalene	6.396	128	7569187	9301.67 ppb	99
4) 2-Methylnaphthalene	7.007	142	4623354	8842.52 ppb	98
5) 1-Methylnaphthalene	7.093	142	4187583	8812.65 ppb	98
8) Acenaphthylene	7.793	152	6734765	9150.34 ppb	99
9) Acenaphthene	7.945	153	3975270	8763.78 ppb	96
10) Fluorene	8.403	166	4550459	8840.27 ppb	98
13) Pentachlorophenol	9.078	266	717567	31207.24 ppb	96
14) Phenanthrene	9.250	178	6395100	8380.81 ppb	96
15) Anthracene	9.290	178	3563132	4513.96 ppb	98
16) Fluoranthene	10.294	202	6591952	8590.36 ppb	98
18) Pyrene	10.495	202	6839326	8725.13 ppb	96
20) Benzo[a]anthracene	11.742	228	2930679	4925.76 ppb	100
21) Chrysene	11.793	228	2737925	4777.27 ppb	100
23) Benzo[b]fluoranthene	13.327	252	1952555	5226.66 ppb	99
24) Benzo[k]fluoranthene	13.380	252	1920559m	4960.57 ppb	
25) Benzo[a]pyrene	13.869	252	1732199	5089.24 ppb	99
26) Indeno[1,2,3-cd]pyrene	15.921	276	1313500	5022.46 ppb	94
27) Dibenz[a,h]anthracene	15.993	278	1415486	5390.37 ppb	97
28) Benzo[g,h,i]perylene	16.432	276	1334857	4401.67 ppb	96

(#) = qualifier out of range (m) = manual integration (+) = signals summed

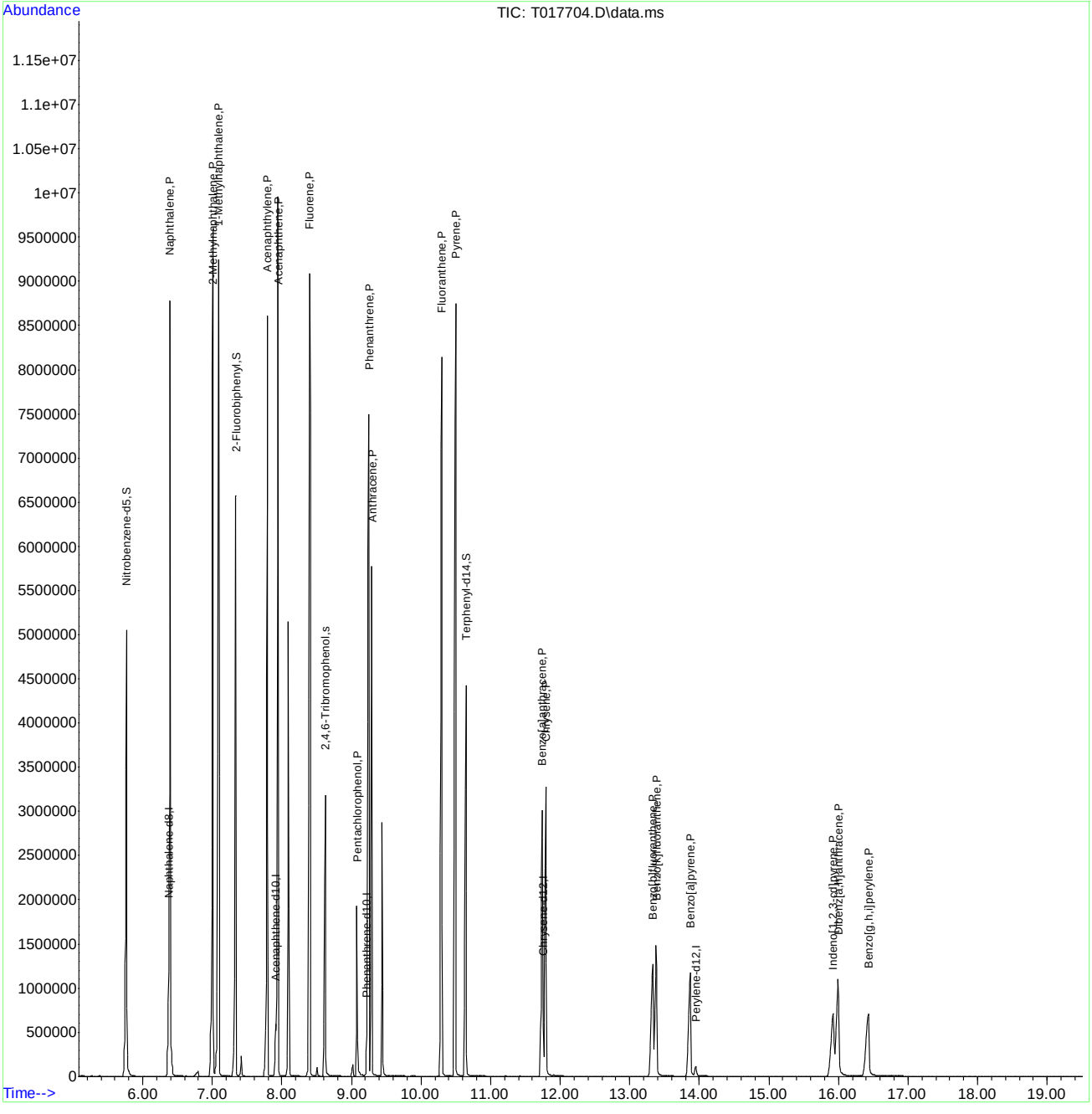
7.6.7

7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\st809\
Data File : T017704.D
Acq On : 1 Apr 2015 4:37 pm
Operator : mayrag
Sample : ic809-7
Misc : op55409,st809,250,,,1,1,water
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Apr 06 09:16:41 2015
Quant Method : C:\msdchem\1\METHODS\SIM_LV.M
Quant Title : PAH's by 8270 SIM
QLast Update : Mon Apr 06 09:07:09 2015
Response via : Initial Calibration



SIM_LV.M Mon Apr 06 09:16:50 2015 Page: 2

Manual Integration Approval Summary

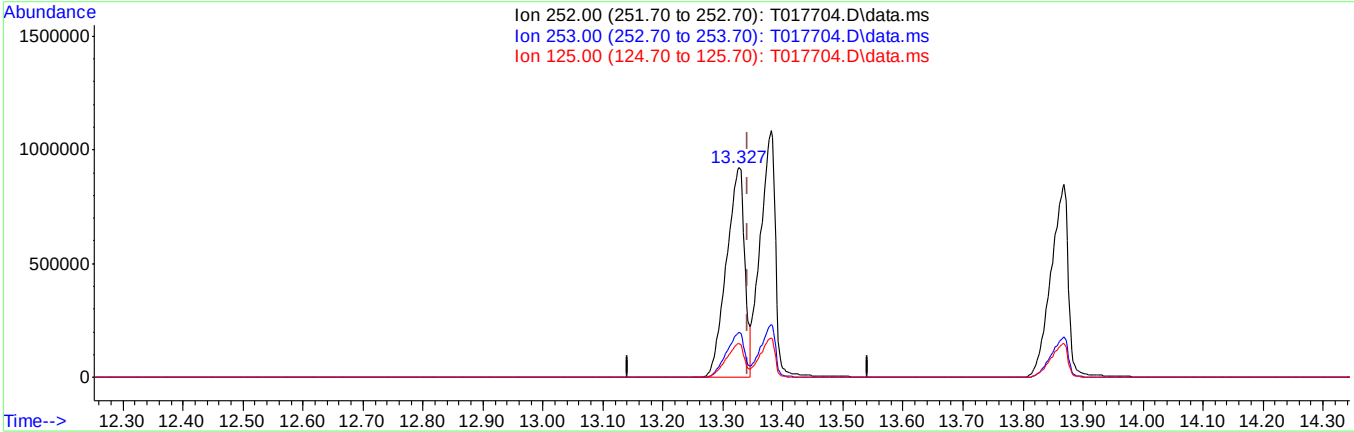
Sample Number:	ST809-IC809	**Method:**	SW846 8270D BY SIM
Lab FileID:	T017704.D	**Analyst approved:**	04/06/15 14:26 Mayra Gonzalez
Injection Time:	04/01/15 16:37	**Supervisor approved:**	04/06/15 15:36 Mike Eger

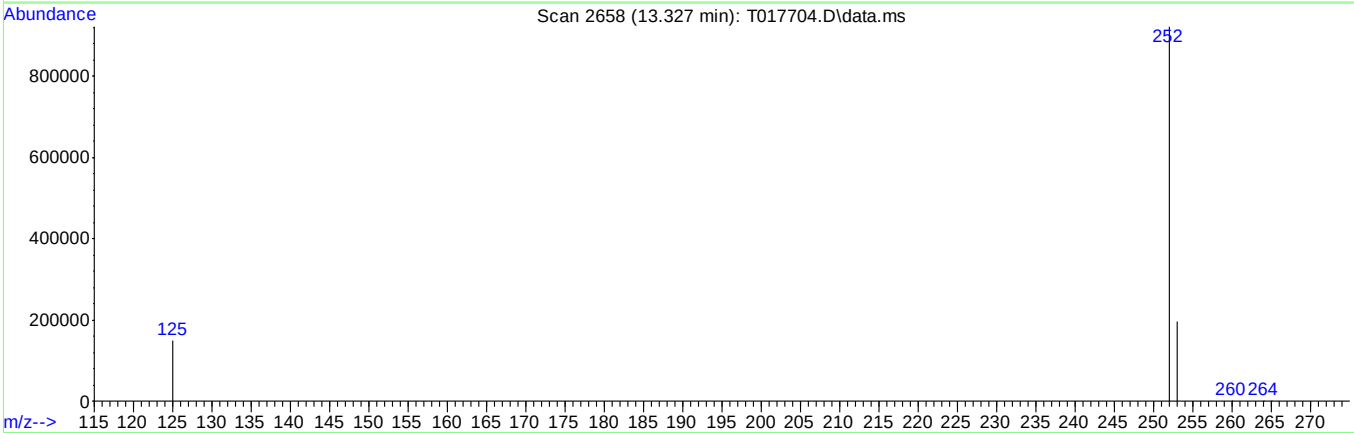
Parameter	CAS	Sig#	R.T. (min.)	Reason
Benzo(k)fluoranthene	207-08-9		13.38	Missed peak

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\st809\
Data File : T017704.D
Acq On : 1 Apr 2015 4:37 pm
Operator : mayrag
Sample : ic809-7
Misc : op55409,st809,250,,,1,1,water
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Apr 06 09:16:20 2015
Quant Method : C:\msdchem\1\METHODS\SIM_LV.M
Quant Title : PAH's by 8270 SIM
QLast Update : Mon Apr 06 09:07:09 2015
Response via : Initial Calibration





TIC: T017704.D\data.ms

(24) Benzo[k]fluoranthene (P)

13.327min (-0.015) 5043.21ppb

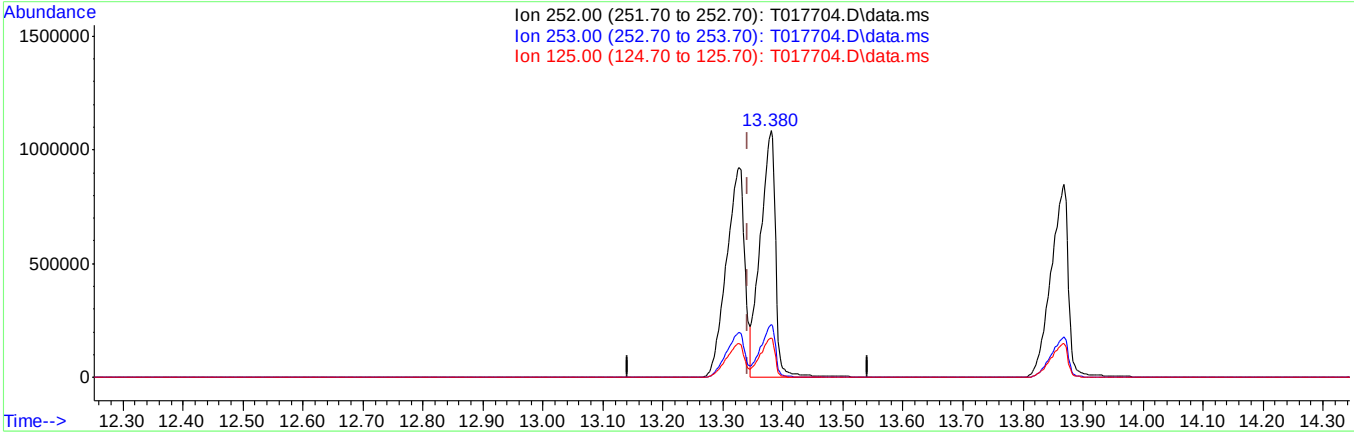
response 1952555

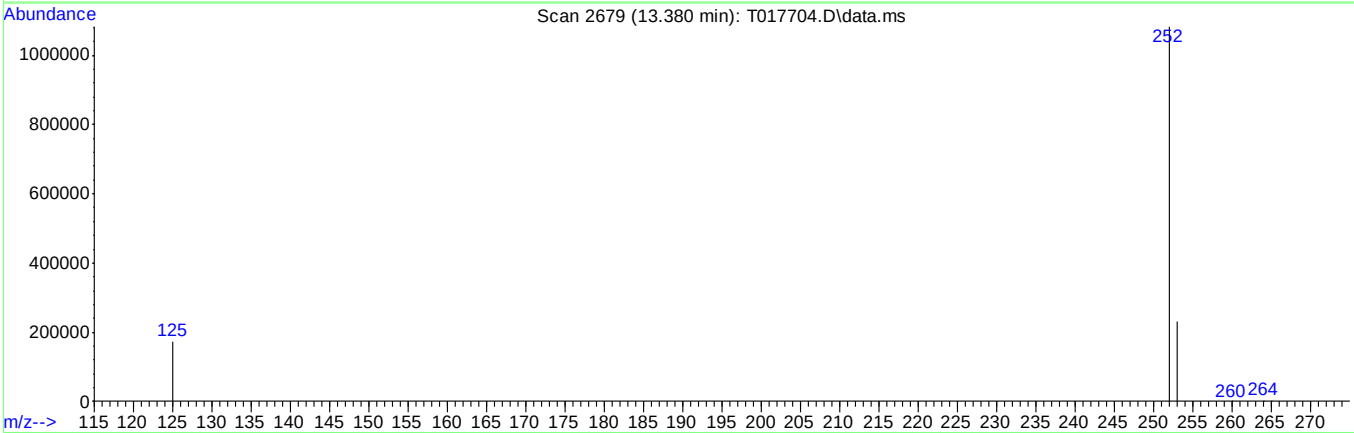
Ion	Exp%	Act%
252.00	100	100
253.00	22.00	21.22
125.00	16.90	16.18
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\st809\
Data File : T017704.D
Acq On : 1 Apr 2015 4:37 pm
Operator : mayrag
Sample : ic809-7
Misc : op55409,st809,250,,,1,1,water
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Apr 06 09:16:20 2015
Quant Method : C:\msdchem\1\METHODS\SIM_LV.M
Quant Title : PAH's by 8270 SIM
QLast Update : Mon Apr 06 09:07:09 2015
Response via : Initial Calibration





TIC: T017704.D\data.ms

(24) Benzo[k]fluoranthene (P)

13.380min (+0.038) 4960.57ppb m

response 1920559

Ion	Exp%	Act%
252.00	100	100
253.00	22.00	21.29
125.00	16.90	16.03
0.00	0.00	0.00

ACCUTEST LABORATORIES FA23189

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\st809\
Data File : T017706.D
Acq On : 1 Apr 2015 5:38 pm
Operator : mayrag
Sample : icv809-4
Misc : op55409,st809,250,,,1,1,water
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Apr 06 09:18:29 2015
Quant Method : C:\msdchem\1\METHODS\SIM_LV.M
Quant Title : PAH's by 8270 SIM
QLast Update : Mon Apr 06 09:17:56 2015
Response via : Initial Calibration

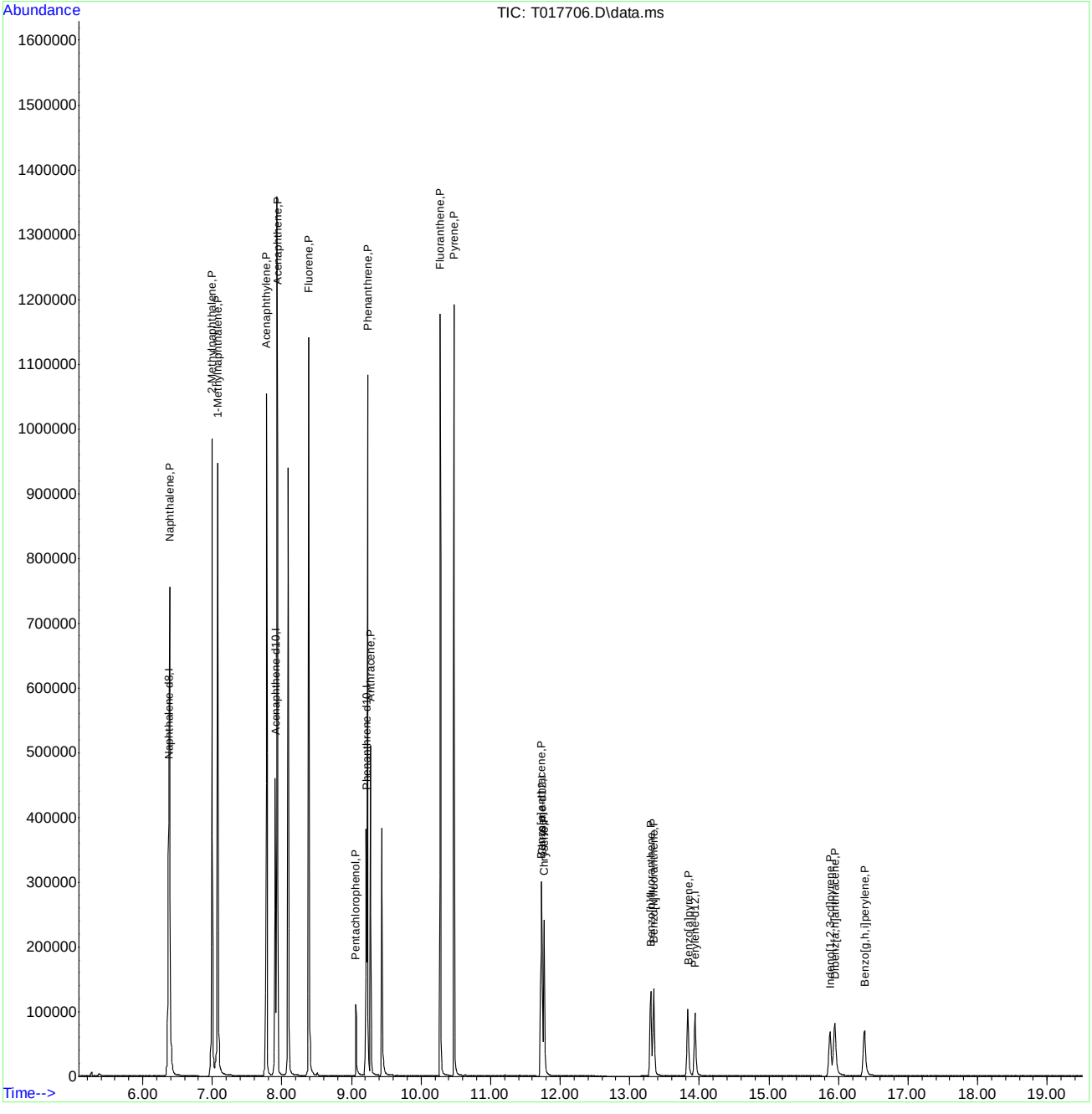
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Naphthalene-d8	6.369	136	297338	500.00	ppb	0.00
6) Acenaphthene-d10	7.904	164	153272	500.00	ppb	0.00
11) Phenanthrene-d10	9.211	188	252694	500.00	ppb	0.00
17) Chrysene-d12	11.740	240	161901	500.00	ppb	0.00
22) Perylene-d12	13.937	264	118657	500.00	ppb	0.00
System Monitoring Compounds						
2) Nitrobenzene-d5	0.000	82	0	0.00	ppb	
Spiked Amount 2000.000	Range 38 - 126		Recovery = 0.00%#			
7) 2-Fluorobiphenyl	0.000	172	0	0.00	ppb	
Spiked Amount 2000.000	Range 41 - 109		Recovery = 0.00%#			
12) 2,4,6-Tribromophenol	0.000	330	0	0.00	ppb	
Spiked Amount 4000.000	Range 33 - 118		Recovery = 0.00%#			
19) Terphenyl-d14	0.000	244	0	0.00	ppb	
Spiked Amount 2000.000	Range 46 - 135		Recovery = 0.00%#			
Target Compounds						Qvalue
3) Naphthalene	6.387	128	662165	899.92	ppb	99
4) 2-Methylnaphthalene	6.996	142	398995	887.71	ppb	98
5) 1-Methylnaphthalene	7.080	142	409654	965.08	ppb	96
8) Acenaphthylene	7.781	152	639565	903.30	ppb	100
9) Acenaphthene	7.933	153	407289	941.53	ppb	97
10) Fluorene	8.388	166	456427	989.72	ppb	99
13) Pentachlorophenol	9.064	266	40381	2366.66	ppb	94
14) Phenanthrene	9.231	178	619012	930.49	ppb	98
15) Anthracene	9.275	178	299518	423.61	ppb	99
16) Fluoranthene	10.278	202	595887	913.49	ppb	99
18) Pyrene	10.475	202	625668	1057.88	ppb	99
20) Benzo[a]anthracene	11.727	228	182315	423.28	ppb	100
21) Chrysene	11.772	228	190214	454.59	ppb	99
23) Benzo[b]fluoranthene	13.299	252	148330	437.07	ppb	99
24) Benzo[k]fluoranthene	13.342	252	163961	450.73	ppb	99
25) Benzo[a]pyrene	13.836	252	131908	419.64	ppb	100
26) Indeno[1,2,3-cd]pyrene	15.880	276	95150	403.21	ppb	97
27) Dibenz[a,h]anthracene	15.946	278	100012	407.25	ppb	97
28) Benzo[g,h,i]perylene	16.372	276	110745	416.93	ppb	97

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\st809\
Data File : T017706.D
Acq On : 1 Apr 2015 5:38 pm
Operator : mayrag
Sample : icv809-4
Misc : op55409,st809,250,,,1,1,water
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Apr 06 09:18:29 2015
Quant Method : C:\msdchem\1\METHODS\SIM_LV.M
Quant Title : PAH's by 8270 SIM
QLast Update : Mon Apr 06 09:17:56 2015
Response via : Initial Calibration



SIM_LV.M Mon Apr 06 09:19:11 2015 Page: 2

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\st810\
Data File : T017708.D
Acq On : 6 Apr 2015 10:54 am
Operator : mayrag
Sample : cc809-5
Misc : op55409,st810,250,,,1,1,water
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Apr 06 15:45:46 2015
Quant Method : C:\msdchem\1\METHODS\SIM_LV.M
Quant Title : PAH's by 8270 SIM
QLast Update : Mon Apr 06 14:20:40 2015
Response via : Initial Calibration

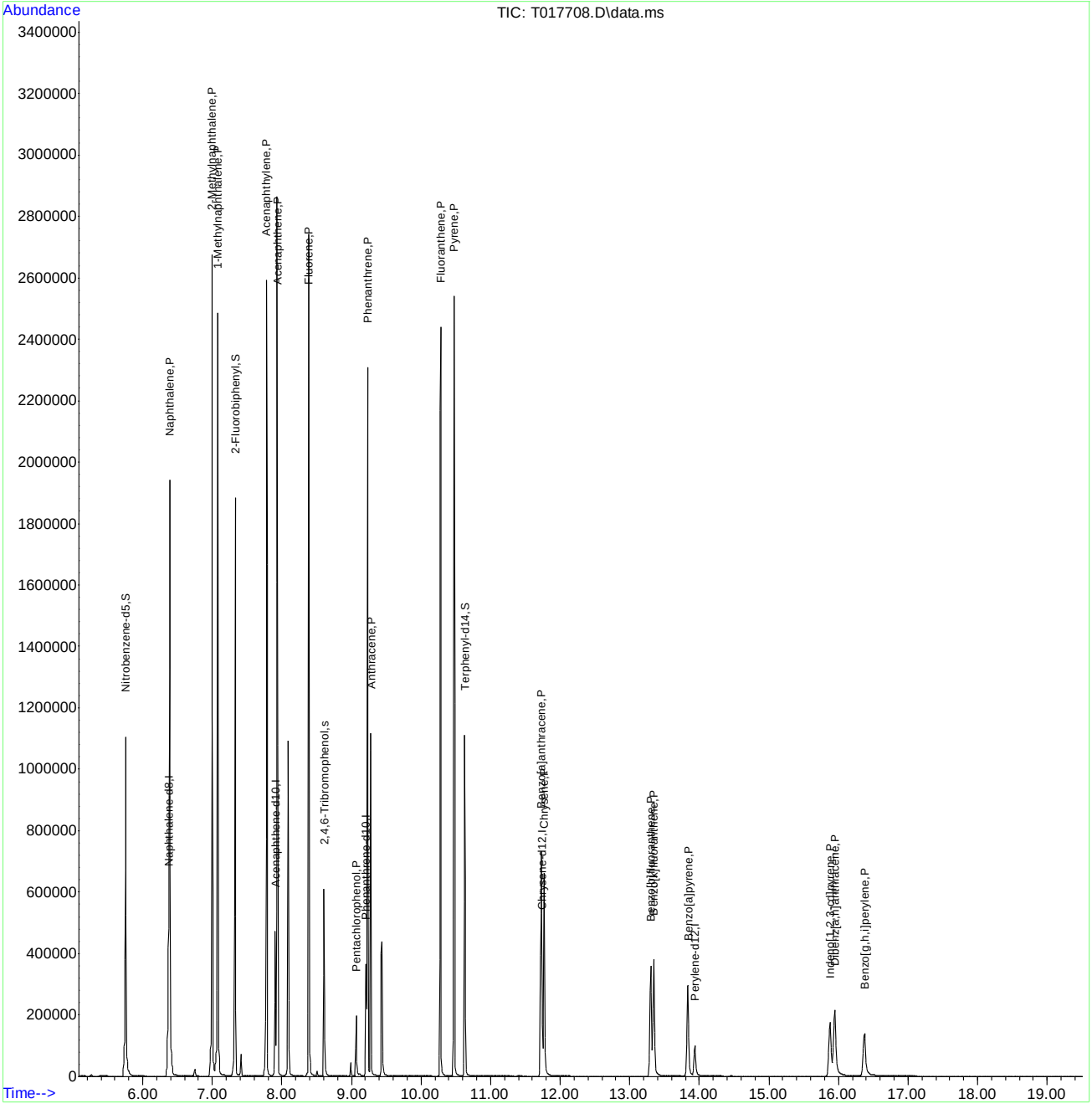
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) Naphthalene-d8	6.372	136	286857	500.00 ppb	0.00
6) Acenaphthene-d10	7.904	164	142891	500.00 ppb	0.00
11) Phenanthrene-d10	9.208	188	229870	500.00 ppb	0.00
17) Chrysene-d12	11.740	240	182909	500.00 ppb	0.00
22) Perylene-d12	13.934	264	126204	500.00 ppb	0.00
System Monitoring Compounds					
2) Nitrobenzene-d5	5.756	82	572264	2159.78 ppb	0.00
Spiked Amount 2000.000	Range 38 - 126		Recovery = 107.99%		
7) 2-Fluorobiphenyl	7.327	172	1031302	2214.54 ppb	0.00
Spiked Amount 2000.000	Range 41 - 109		Recovery = 110.73%#		
12) 2,4,6-Tribromophenol	8.606	330	207097	3740.97 ppb	0.00
Spiked Amount 4000.000	Range 33 - 118		Recovery = 93.52%		
19) Terphenyl-d14	10.629	244	747520	2123.05 ppb	0.00
Spiked Amount 2000.000	Range 46 - 135		Recovery = 106.15%		
Target Compounds					Qvalue
3) Naphthalene	6.390	128	1530829	2156.50 ppb	100
4) 2-Methylnaphthalene	6.996	142	975111	2248.77 ppb	96
5) 1-Methylnaphthalene	7.082	142	892788	2180.12 ppb	98
8) Acenaphthylene	7.781	152	1467281	2222.89 ppb	99
9) Acenaphthene	7.933	153	895627	2220.84 ppb	93
10) Fluorene	8.390	166	991668	2306.57 ppb	98
13) Pentachlorophenol	9.066	266	63347	3947.08 ppb	96
14) Phenanthrene	9.233	178	1347736	2227.05 ppb	98
15) Anthracene	9.277	178	695900	1081.94 ppb	98
16) Fluoranthene	10.280	202	1348261	2272.10 ppb	100
18) Pyrene	10.477	202	1376211	2059.64 ppb	99
20) Benzo[a]anthracene	11.727	228	519476	1067.53 ppb	99
21) Chrysene	11.772	228	514606	1088.60 ppb	100
23) Benzo[b]fluoranthene	13.299	252	411992	1141.38 ppb	100
24) Benzo[k]fluoranthene	13.342	252	447101	1155.58 ppb	99
25) Benzo[a]pyrene	13.836	252	371560	1111.35 ppb	99
26) Indeno[1,2,3-cd]pyrene	15.878	276	243091	968.53 ppb	97
27) Dibenz[a,h]anthracene	15.945	278	251549	963.05 ppb	97
28) Benzo[g,h,i]perylene	16.374	276	230508	815.92 ppb	98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\st810\
Data File : T017708.D
Acq On : 6 Apr 2015 10:54 am
Operator : mayrag
Sample : cc809-5
Misc : op55409,st810,250,,,1,1,water
ALS Vial : 2 Sample Multiplier: 1

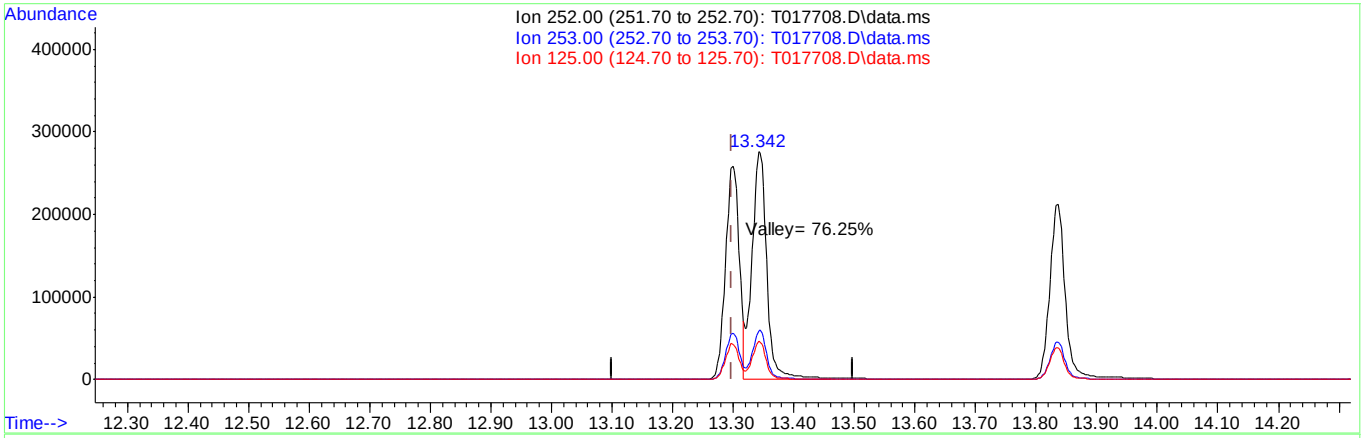
Quant Time: Apr 06 15:45:46 2015
Quant Method : C:\msdchem\1\METHODS\SIM_LV.M
Quant Title : PAH's by 8270 SIM
QLast Update : Mon Apr 06 14:20:40 2015
Response via : Initial Calibration

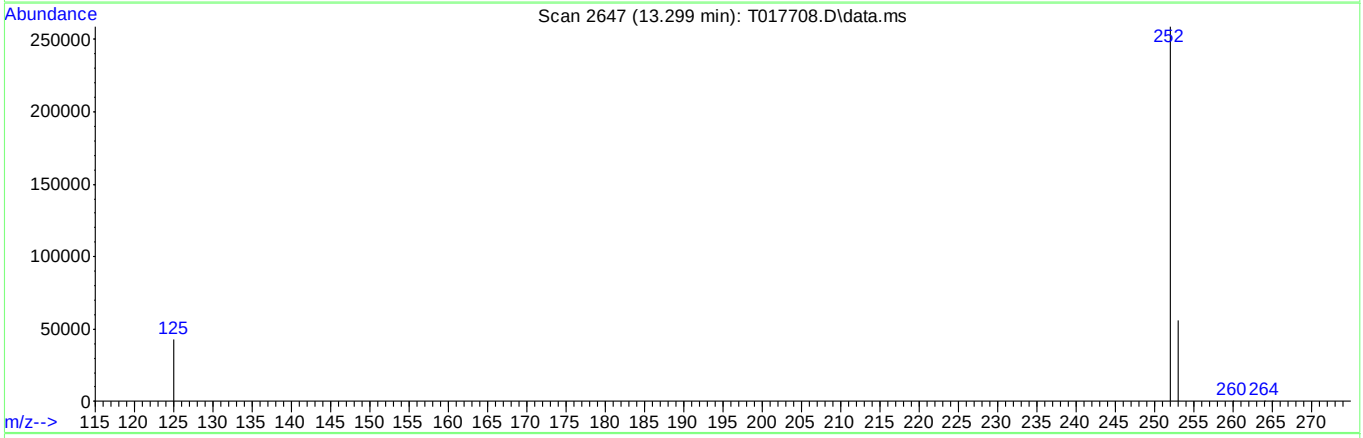


Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\st810\
Data File : T017708.D
Acq On : 6 Apr 2015 10:54 am
Operator : mayrag
Sample : cc809-5
Misc : op55409,st810,250,,,1,1,water
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Apr 06 15:45:46 2015
Quant Method : C:\msdchem\1\METHODS\SIM_LV.M
Quant Title : PAH's by 8270 SIM
QLast Update : Mon Apr 06 14:20:40 2015
Response via : Initial Calibration





TIC: T017708.D\data.ms

(23) Benzo[b]fluoranthene (P)

13.299min (-0.000) 1141.38ppb

response 411992

Ion	Exp%	Act%
252.00	100	100
253.00	21.90	21.57
125.00	16.60	16.60
0.00	0.00	0.00

ACCUTEST LABORATORIES FA23189

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\st811\
Data File : T017724.D
Acq On : 7 Apr 2015 10:26 am
Operator : mayrag
Sample : cc809-5
Misc : op55409,st811,250,,,1,1,water
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Apr 08 09:06:56 2015
Quant Method : C:\msdchem\1\METHODS\SIM_LV.M
Quant Title : PAH's by 8270 SIM
QLast Update : Wed Apr 08 09:06:52 2015
Response via : Initial Calibration

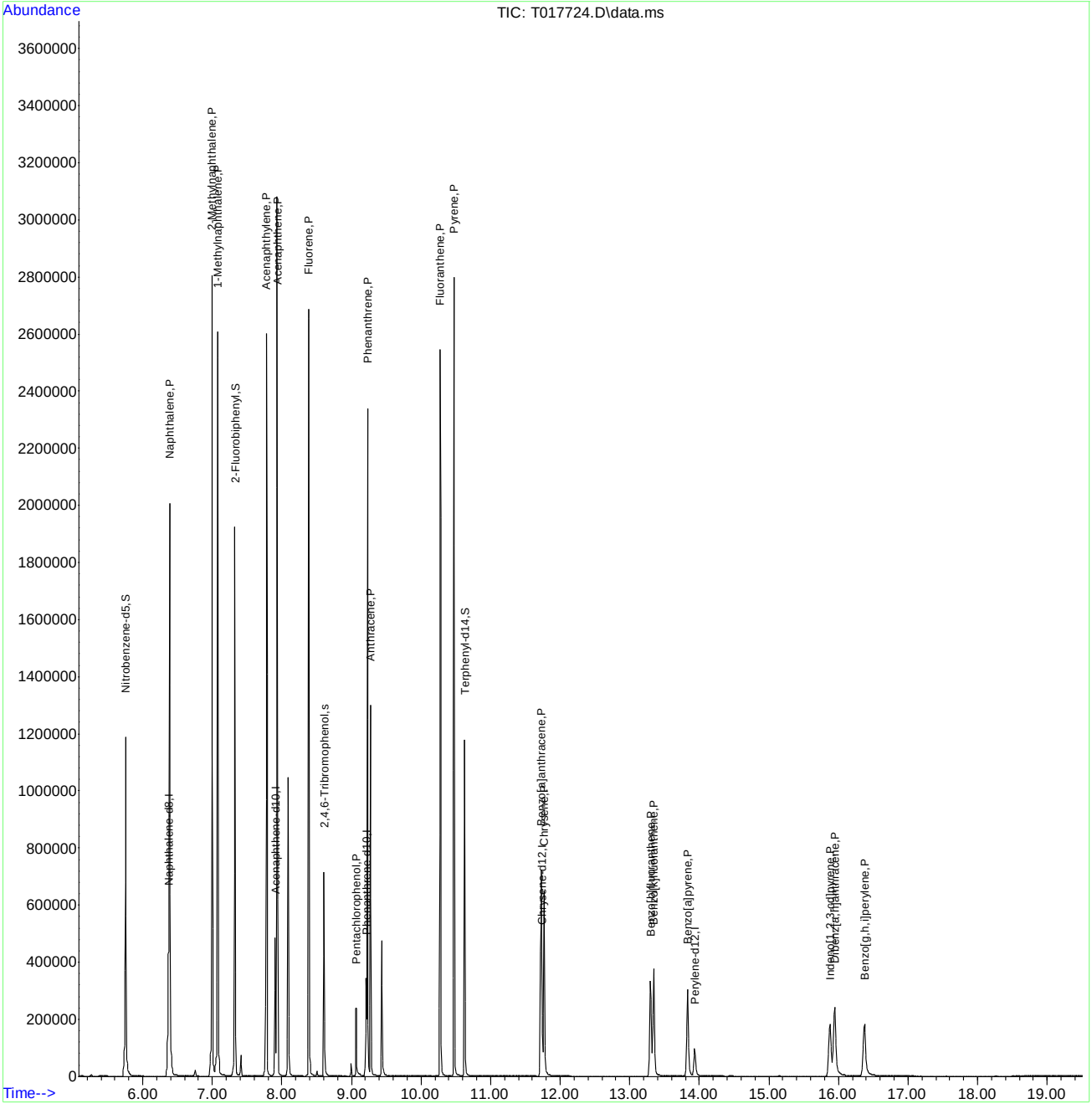
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) Naphthalene-d8	6.369	136	280510	500.00 ppb	0.00
6) Acenaphthene-d10	7.904	164	141501	500.00 ppb	0.00
11) Phenanthrene-d10	9.211	188	229658	500.00 ppb	0.00
17) Chrysene-d12	11.740	240	181883	500.00 ppb	0.00
22) Perylene-d12	13.932	264	124709	500.00 ppb	0.00
System Monitoring Compounds					
2) Nitrobenzene-d5	5.756	82	584910	2257.46 ppb	0.00
Spiked Amount 2000.000	Range 38 - 126		Recovery = 112.87%		
7) 2-Fluorobiphenyl	7.325	172	1061144	2301.01 ppb	0.00
Spiked Amount 2000.000	Range 41 - 109		Recovery = 115.05%#		
12) 2,4,6-Tribromophenol	8.606	330	228105	4127.50 ppb	0.00
Spiked Amount 4000.000	Range 33 - 118		Recovery = 103.19%		
19) Terphenyl-d14	10.627	244	751148	2145.39 ppb	0.00
Spiked Amount 2000.000	Range 46 - 135		Recovery = 107.27%		
Target Compounds					Qvalue
3) Naphthalene	6.390	128	1518897	2188.11 ppb	100
4) 2-Methylnaphthalene	6.996	142	980574	2312.53 ppb	97
5) 1-Methylnaphthalene	7.080	142	919222	2295.46 ppb	96
8) Acenaphthylene	7.781	152	1479791	2263.87 ppb	99
9) Acenaphthene	7.933	153	886781	2220.50 ppb	95
10) Fluorene	8.390	166	993119	2332.64 ppb	98
13) Pentachlorophenol	9.068	266	87091	5284.49 ppb	99
14) Phenanthrene	9.231	178	1336547	2210.60 ppb	98
15) Anthracene	9.275	178	724726	1127.80 ppb	99
16) Fluoranthene	10.278	202	1403786	2367.85 ppb	97
18) Pyrene	10.475	202	1439026	2165.80 ppb	97
20) Benzo[a]anthracene	11.727	228	528509	1092.22 ppb	99
21) Chrysene	11.772	228	502430	1068.84 ppb	100
23) Benzo[b]fluoranthene	13.297	252	402449	1128.31 ppb	100
24) Benzo[k]fluoranthene	13.342	252	436473	1141.64 ppb	99
25) Benzo[a]pyrene	13.834	252	384207	1162.96 ppb	99
26) Indeno[1,2,3-cd]pyrene	15.878	276	269398	1086.21 ppb	96
27) Dibenz[a,h]anthracene	15.943	278	286935	1111.70 ppb	97
28) Benzo[g,h,i]perylene	16.374	276	301289	1079.25 ppb	96

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\st811\
Data File : T017724.D
Acq On : 7 Apr 2015 10:26 am
Operator : mayrag
Sample : cc809-5
Misc : op55409,st811,250,,,1,1,water
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Apr 08 09:06:56 2015
Quant Method : C:\msdchem\1\METHODS\SIM_LV.M
Quant Title : PAH's by 8270 SIM
QLast Update : Wed Apr 08 09:06:52 2015
Response via : Initial Calibration

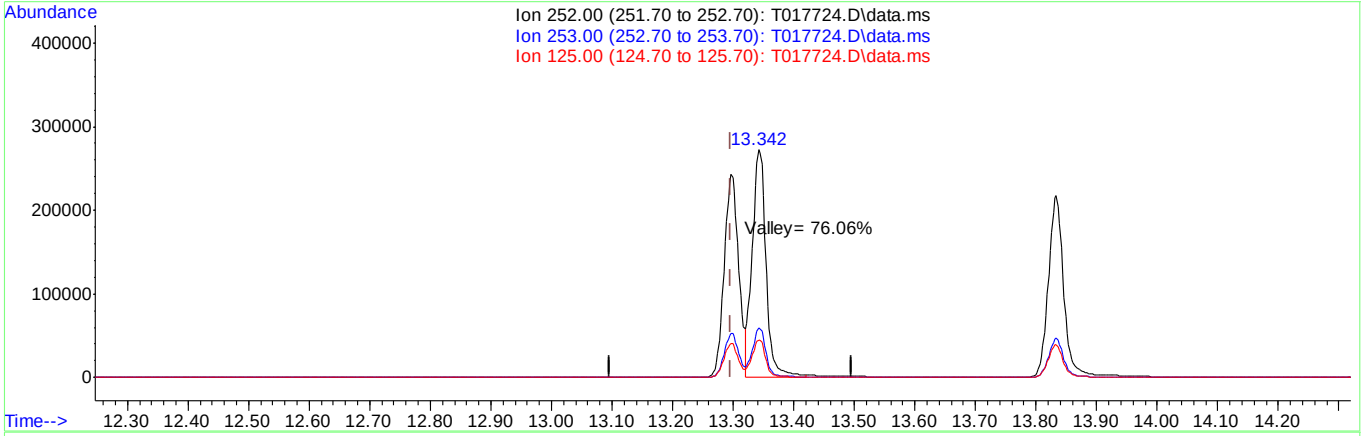


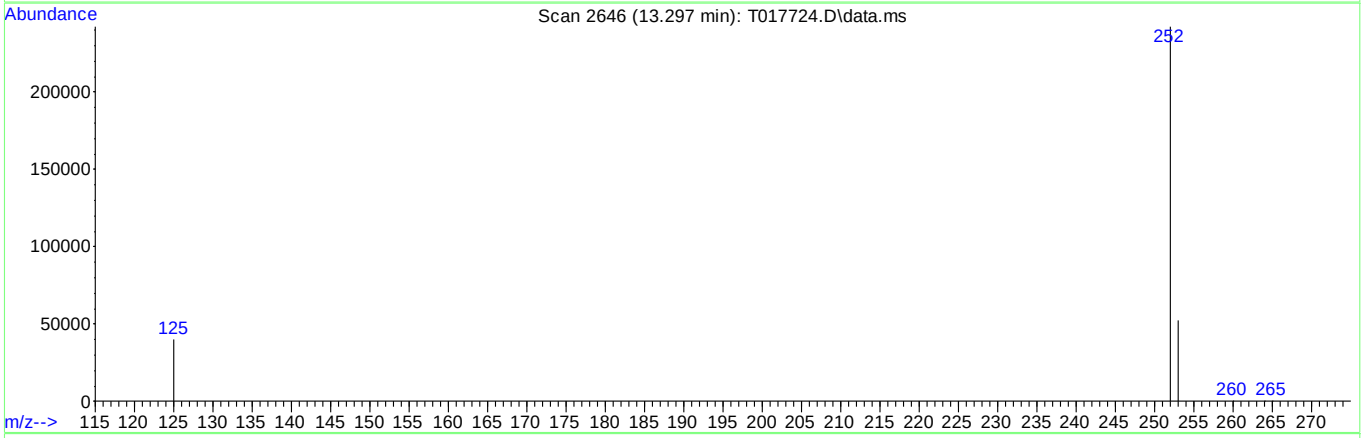
ACCUTEST LABORATORIES FA23189

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\st811\
Data File : T017724.D
Acq On : 7 Apr 2015 10:26 am
Operator : mayrag
Sample : cc809-5
Misc : op55409,st811,250,,,1,1,water
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Apr 08 09:06:56 2015
Quant Method : C:\msdchem\1\METHODS\SIM_LV.M
Quant Title : PAH's by 8270 SIM
QLast Update : Wed Apr 08 09:06:52 2015
Response via : Initial Calibration





TIC: T017724.D\data.ms

(23) Benzo[b]fluoranthene (P)

13.297min (-0.000) 1128.31ppb

response 402449

Ion	Exp%	Act%
252.00	100	100
253.00	21.90	21.65
125.00	16.60	16.65
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\SU2285\
Data File : U049898.D
Acq On : 30 Mar 2015 1:16 pm
Operator : nareshj
Sample : ic2285-5
Misc : op55483,su2285,30.0,,,1,1,soil
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Mar 30 15:26:01 2015
Quant Method : C:\msdchem\2\METHODS\8270da.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Mon Mar 30 15:24:28 2015
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.726	152	113709	40.00	ppm	0.00
22) Naphthalene-d8	5.828	136	426555	40.00	ppm	0.00
42) Acenaphthene-d10	8.056	164	240457	40.00	ppm	0.00
68) Phenanthrene-d10	10.483	188	384716	40.00	ppm	0.00
84) Chrysene-d12	15.393	240	360420	40.00	ppm	0.00
93) Perylene-d12	17.899	264	320065	40.00	ppm	0.00

System Monitoring Compounds

7) 2-Fluorophenol	3.837	112	39945	14.30	ppm	0.02
Spiked Amount 100.000	Range 40 - 102		Recovery = 14.30%#			
9) Phenol-d5	4.535	99	44624	12.66	ppm	0.01
Spiked Amount 100.000	Range 41 - 100		Recovery = 12.66%#			
23) Nitrobenzene-d5	5.189	82	21731	7.03	ppm	0.00
Spiked Amount 50.000	Range 40 - 105		Recovery = 14.06%#			
46) 2-Fluorobiphenyl	7.104	172	45043	7.31	ppm	0.00
Spiked Amount 50.000	Range 43 - 107		Recovery = 14.62%#			
73) 2,4,6-Tribromophenol	9.338	330	11305	14.18	ppm	0.00
Spiked Amount 100.000	Range 42 - 108		Recovery = 14.18%#			
87) Terphenyl-d14	13.509	244	40962	7.51	ppm	0.00
Spiked Amount 50.000	Range 45 - 119		Recovery = 15.02%#			

Target Compounds

						Qvalue
2) 1,4-Dioxane	2.336	88	8607	7.65	ppm	90
3) N-nitrosodimethylamine	2.674	42	8740	7.17	ppm	95
4) Pyridine	2.672	79	22017	7.37	ppm	91
5) Benzaldehyde	4.410	106	18872	8.65	ppm	99
6) Aniline	4.518	93	33728	7.26	ppm	72
8) bis(2-Chloroethyl)ether	4.558	93	20850	7.32	ppm	97
10) Phenol	4.544	94	26645	6.72	ppm	98
11) 2-Chlorophenol	4.609	128	22559	7.22	ppm	99
12) 1,3-Dichlorobenzene	4.700	146	24063	7.27	ppm	98
13) 1,4-Dichlorobenzene	4.740	146	24552	7.30	ppm	98
14) 1,2-Dichlorobenzene	4.885	146	23846	7.47	ppm	95
15) Benzyl alcohol	4.859	108	15059	7.40	ppm	95
16) bis(2-chloroisopropyl)...	4.973	45	26441	7.57	ppm	89
17) 2-Methylphenol	4.979	108	20185	7.27	ppm	99
18) Acetophenone	5.061	105	29819	7.25	ppm	94
19) Hexachloroethane	5.132	117	9093	7.27	ppm	94
20) N-Nitroso-di-n-propyla...	5.081	70	14174	6.85	ppm	99
21) 3&4-Methylphenol	5.098	108	21212	7.24	ppm	98
24) Nitrobenzene	5.203	77	22150	7.34	ppm	99
25) Isophorone	5.402	82	40565	7.26	ppm	99
26) 2-Nitrophenol	5.485	139	11629	6.90	ppm	89
27) 2,4-Dimethylphenol	5.539	107	20762	7.20	ppm	93
28) bis(2-Chloroethoxy)met...	5.607	93	24320	7.42	ppm	99
29) Benzoic Acid	5.627	105	14524	7.23	ppm	96
30) 2,4-Dichlorophenol	5.723	162	17574	7.18	ppm	97
31) 1,2,4-Trichlorobenzene	5.789	180	19210	7.41	ppm	92
33) Naphthalene	5.848	128	63106	7.28	ppm	98
34) 4-Chloroaniline	5.928	127	27756	7.07	ppm	98

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\SU2285\
Data File : U049898.D
Acq On : 30 Mar 2015 1:16 pm
Operator : nareshj
Sample : ic2285-5
Misc : op55483,su2285,30.0,,,1,1,soil
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Mar 30 15:26:01 2015
Quant Method : C:\msdchem\2\METHODS\8270da.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Mon Mar 30 15:24:28 2015
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
35) 2,6-Dichlorophenol	5.939	162	18034	7.30	ppm		94
36) Hexachlorobutadiene	6.036	225	9952	7.22	ppm		96
37) Caprolactam	6.240	113	7243	7.30	ppm		90
38) 4-Chloro-3-methylphenol	6.493	107	17293	6.90	ppm		97
39) 2-Methylnaphthalene	6.607	142	43097	7.30	ppm		99
40) 1-Methylnaphthalene	6.738	142	37925	7.22	ppm		96
41) 1,2,4,5-Tetrachloroben...	6.868	216	18668	7.00	ppm		100
43) Hexachlorocyclopentadiene	6.894	237	10411	6.90	ppm		92
44) 2,4,6-Trichlorophenol	7.010	196	12234	7.23	ppm		98
45) 2,4,5-Trichlorophenol	7.079	196	13169	7.31	ppm		94
47) 1,1'-Biphenyl	7.218	154	52738	7.77	ppm		98
48) 2-Chloronaphthalene	7.223	162	38060	7.45	ppm		96
49) 2-Nitroaniline	7.425	65	11190	7.25	ppm		97
50) p-Dinitrobenzene	7.584	75	7804	7.07	ppm	#	77
51) Acenaphthylene	7.817	152	62254	7.22	ppm		99
52) Dimethylphthalate	7.746	163	42704	7.19	ppm		97
53) m-Dinitrobenzene	7.752	168	7327	6.79	ppm		89
54) 2,6-Dinitrotoluene	7.837	165	10372	7.18	ppm		93
55) o-Dinitrobenzene	7.925	50	5407	7.08	ppm		90
56) Acenaphthene	8.099	153	37917	7.15	ppm		92
57) 3-Nitroaniline	8.039	138	11000	6.62	ppm		95
58) 2,4-Dinitrophenol	8.195	184	3091	3.62	ppm		96
59) Dibenzofuran	8.346	168	53651	7.11	ppm		96
60) 2,4-Dinitrotoluene	8.434	165	13201	6.82	ppm		95
61) 4-Nitrophenol	8.408	109	4296	6.19	ppm		95
62) 2,3,5,6-Tetrachlorophenol	8.567	232	9902	6.52	ppm		98
63) 2,3,4,6-Tetrachlorophenol	8.639	232	10198	6.88	ppm		94
64) Fluorene	8.894	166	43599	7.19	ppm		99
65) 4-Chlorophenyl-phenyle...	8.931	204	20642	7.27	ppm		100
66) Diethylphthalate	8.877	149	39945	5.64	ppm		99
67) 4-Nitroaniline	9.022	138	11318	6.82	ppm		91
69) 4,6-Dinitro-2-methylph...	9.090	198	6414	6.06	ppm		95
70) n-Nitrosodiphenylamine	9.147	169	36868	9.06	ppm		97
71) Diphenylamine	9.147	169	36868	7.55	ppm		97
72) 1,2-Diphenylhydrazine	9.187	77	40234	7.51	ppm		95
74) 4-Bromophenyl-phenylether	9.744	248	11027	7.37	ppm		96
75) Hexachlorobenzene	9.963	284	12641	7.43	ppm		97
76) Simazine	10.099	201	6139	15.15	ppm		95
77) Atrazine	10.181	200	11542	7.40	ppm		95
78) Pentachlorophenol	10.312	266	5294	5.22	ppm		97
79) Phenanthrene	10.517	178	57968	7.15	ppm		99
80) Anthracene	10.593	178	59624	7.41	ppm		97
81) Carbazole	10.940	167	55269	7.05	ppm		98
82) Di-n-butylphthalate	11.807	149	63151	7.13	ppm		100
83) Fluoranthene	12.679	202	58524	6.92	ppm		98
85) Benzidine	13.026	184	33083	7.35	ppm		97
86) Pyrene	13.077	202	61290	7.71	ppm		96
88) Butylbenzylphthalate	14.591	149	25509	7.28	ppm		93
89) 3,3'-Dichlorobenzidine	15.432	252	19412	7.22	ppm		95
90) Benzo[a]anthracene	15.356	228	52228	7.11	ppm		99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\SU2285\
Data File : U049898.D
Acq On : 30 Mar 2015 1:16 pm
Operator : nareshj
Sample : ic2285-5
Misc : op55483,su2285,30.0,,,1,1,soil
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Mar 30 15:26:01 2015
Quant Method : C:\msdchem\2\METHODS\8270da.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Mon Mar 30 15:24:28 2015
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
91) Chrysene	15.430	228	50297	7.29 ppm	97
92) bis(2-Ethylhexyl)phtha...	15.807	149	34064	7.04 ppm	94
94) Di-n-octylphthalate	16.921	149	56022	7.37 ppm	98
95) Benzo[b]fluoranthene	17.276	252	48678	7.01 ppm	98
96) Benzo[k]fluoranthene	17.313	252	46976	7.22 ppm	98
97) Benzo[a]pyrene	17.788	252	46604	6.95 ppm	96
98) Indeno[1,2,3-cd]pyrene	19.473	276	41865	6.53 ppm	95
99) Dibenz[a,h]anthracene	19.516	278	40457	6.40 ppm	98
100) Benzo[g,h,i]perylene	19.808	276	44673	6.63 ppm	98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

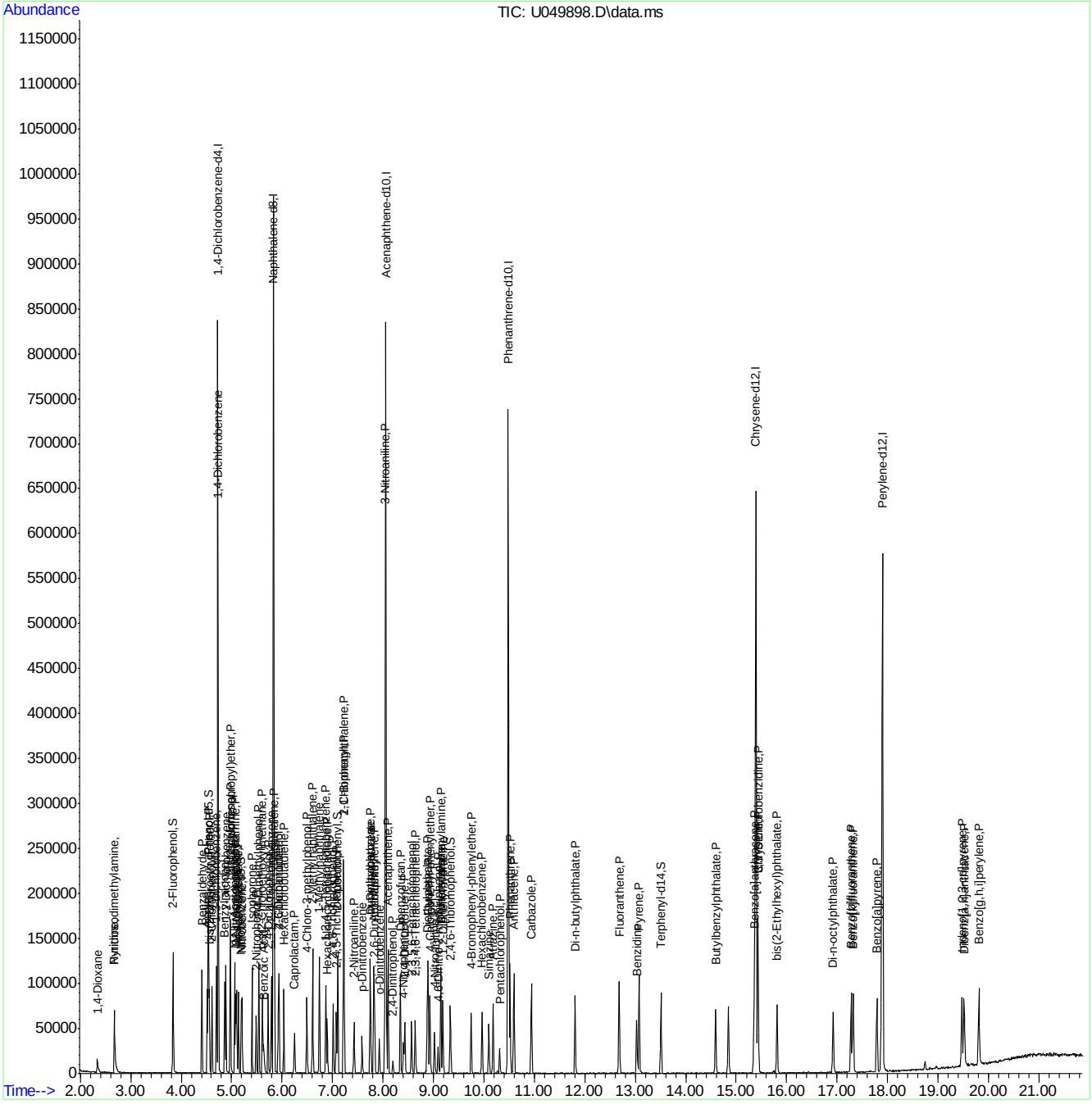
7.6.11

7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\SU2285\
Data File : U049898.D
Acq On : 30 Mar 2015 1:16 pm
Operator : nareshj
Sample : ic2285-5
Misc : op55483,su2285,30.0,,,1,1,soil
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Mar 30 15:26:01 2015
Quant Method : C:\msdchem\2\METHODS\8270da.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Mon Mar 30 15:24:28 2015
Response via : Initial Calibration



ACCUTEST LABORATORIES FA23189

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\SU2285\
Data File : U049899.D
Acq On : 30 Mar 2015 1:48 pm
Operator : nareshj
Sample : ic2285-10
Misc : op55483,su2285,30.0,,,1,1,soil
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Mar 30 15:26:03 2015
Quant Method : C:\msdchem\2\METHODS\8270da.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Mon Mar 30 15:24:28 2015
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.726	152	112225	40.00	ppm	0.00
22) Naphthalene-d8	5.829	136	425335	40.00	ppm	0.00
42) Acenaphthene-d10	8.056	164	243725	40.00	ppm	0.00
68) Phenanthrene-d10	10.486	188	393957	40.00	ppm	0.00
84) Chrysene-d12	15.393	240	373923	40.00	ppm	0.00
93) Perylene-d12	17.899	264	335077	40.00	ppm	0.00

System Monitoring Compounds

7) 2-Fluorophenol	3.834	112	76227	27.64	ppm	0.02
Spiked Amount 100.000	Range 40 - 102		Recovery = 27.64%#			
9) Phenol-d5	4.536	99	84426	24.27	ppm	0.01
Spiked Amount 100.000	Range 41 - 100		Recovery = 24.27%#			
23) Nitrobenzene-d5	5.189	82	42364	13.75	ppm	0.00
Spiked Amount 50.000	Range 40 - 105		Recovery = 27.50%#			
46) 2-Fluorobiphenyl	7.104	172	86456	13.85	ppm	0.00
Spiked Amount 50.000	Range 43 - 107		Recovery = 27.70%#			
73) 2,4,6-Tribromophenol	9.338	330	23060	28.25	ppm	0.00
Spiked Amount 100.000	Range 42 - 108		Recovery = 28.25%#			
87) Terphenyl-d14	13.509	244	80885	14.29	ppm	0.00
Spiked Amount 50.000	Range 45 - 119		Recovery = 28.58%#			

Target Compounds

						Qvalue
2) 1,4-Dioxane	2.334	88	15940	14.36	ppm	97
3) N-nitrosodimethylamine	2.672	42	15995	13.30	ppm	92
4) Pyridine	2.666	79	41753	14.17	ppm	99
5) Benzaldehyde	4.408	106	35368	16.42	ppm	99
6) Aniline	4.519	93	63683	13.88	ppm	83
8) bis(2-Chloroethyl)ether	4.558	93	39747	14.15	ppm	96
10) Phenol	4.544	94	51518	13.16	ppm	97
11) 2-Chlorophenol	4.610	128	43689	14.16	ppm	98
12) 1,3-Dichlorobenzene	4.700	146	46814	14.32	ppm	97
13) 1,4-Dichlorobenzene	4.737	146	46372	13.97	ppm	99
14) 1,2-Dichlorobenzene	4.885	146	44760	14.21	ppm	98
15) Benzyl alcohol	4.860	108	27987	13.93	ppm	96
16) bis(2-chloroisopropyl)...	4.973	45	50216	14.57	ppm	89
17) 2-Methylphenol	4.979	108	38545	14.07	ppm	95
18) Acetophenone	5.061	105	57131	14.07	ppm	98
19) Hexachloroethane	5.132	117	17113	13.87	ppm	95
20) N-Nitroso-di-n-propyla...	5.081	70	27988	13.70	ppm	96
21) 3&4-Methylphenol	5.098	108	40783	14.10	ppm	99
24) Nitrobenzene	5.203	77	41059	13.65	ppm	98
25) Isophorone	5.405	82	77921	13.99	ppm	99
26) 2-Nitrophenol	5.485	139	23057	13.73	ppm	92
27) 2,4-Dimethylphenol	5.539	107	39014	13.56	ppm	97
28) bis(2-Chloroethoxy)met...	5.610	93	46328	14.17	ppm	99
29) Benzoic Acid	5.644	105	30152	15.05	ppm	95
30) 2,4-Dichlorophenol	5.723	162	34151	14.00	ppm	95
31) 1,2,4-Trichlorobenzene	5.789	180	37223	14.39	ppm	96
33) Naphthalene	5.848	128	120972	13.99	ppm	99
34) 4-Chloroaniline	5.928	127	53603	13.69	ppm	98

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\SU2285\
Data File : U049899.D
Acq On : 30 Mar 2015 1:48 pm
Operator : nareshj
Sample : ic2285-10
Misc : op55483,su2285,30.0,,,1,1,soil
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Mar 30 15:26:03 2015
Quant Method : C:\msdchem\2\METHODS\8270da.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Mon Mar 30 15:24:28 2015
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
35) 2,6-Dichlorophenol	5.939	162	34335	13.93	ppm		98
36) Hexachlorobutadiene	6.036	225	19913	14.49	ppm		92
37) Caprolactam	6.249	113	13331	13.47	ppm		92
38) 4-Chloro-3-methylphenol	6.493	107	34476	13.80	ppm		95
39) 2-Methylnaphthalene	6.607	142	82103	13.94	ppm		97
40) 1-Methylnaphthalene	6.738	142	72727	13.89	ppm		99
41) 1,2,4,5-Tetrachloroben...	6.866	216	37291	14.02	ppm		98
43) Hexachlorocyclopentadiene	6.897	237	21726	14.21	ppm		99
44) 2,4,6-Trichlorophenol	7.013	196	23840	13.90	ppm		96
45) 2,4,5-Trichlorophenol	7.079	196	24991	13.69	ppm		99
47) 1,1'-Biphenyl	7.221	154	100669	14.63	ppm		99
48) 2-Chloronaphthalene	7.226	162	73341	14.17	ppm		97
49) 2-Nitroaniline	7.425	65	21272	13.59	ppm		98
50) p-Dinitrobenzene	7.585	75	14504	12.97	ppm		97
51) Acenaphthylene	7.820	152	120740	13.81	ppm		98
52) Dimethylphthalate	7.749	163	82832	13.76	ppm		100
53) m-Dinitrobenzene	7.755	168	14238	13.03	ppm		94
54) 2,6-Dinitrotoluene	7.837	165	19895	13.58	ppm		92
55) o-Dinitrobenzene	7.931	50	10010	12.94	ppm	#	88
56) Acenaphthene	8.099	153	74103	13.79	ppm		96
57) 3-Nitroaniline	8.042	138	22144	13.16	ppm		92
58) 2,4-Dinitrophenol	8.193	184	9377	10.82	ppm		87
59) Dibenzofuran	8.346	168	105012	13.72	ppm		98
60) 2,4-Dinitrotoluene	8.434	165	26583	13.55	ppm		90
61) 4-Nitrophenol	8.403	109	8966	12.74	ppm		94
62) 2,3,5,6-Tetrachlorophenol	8.568	232	20456	13.30	ppm		98
63) 2,3,4,6-Tetrachlorophenol	8.639	232	20407	13.59	ppm		95
64) Fluorene	8.894	166	85030	13.84	ppm		97
65) 4-Chlorophenyl-phenyle...	8.931	204	39351	13.67	ppm		98
66) Diethylphthalate	8.880	149	78655	10.96	ppm		95
67) 4-Nitroaniline	9.028	138	21924	13.03	ppm		97
69) 4,6-Dinitro-2-methylph...	9.096	198	14422	13.30	ppm		96
70) n-Nitrosodiphenylamine	9.150	169	71912	17.27	ppm		99
71) Diphenylamine	9.150	169	71912	14.39	ppm		99
72) 1,2-Diphenylhydrazine	9.187	77	78925	14.39	ppm		99
74) 4-Bromophenyl-phenylether	9.747	248	22280	14.54	ppm		93
75) Hexachlorobenzene	9.963	284	24483	14.05	ppm		99
76) Simazine	10.105	201	12577	30.32	ppm		95
77) Atrazine	10.187	200	22885	14.34	ppm		94
78) Pentachlorophenol	10.312	266	12470	12.01	ppm		98
79) Phenanthrene	10.517	178	115938	13.96	ppm		98
80) Anthracene	10.596	178	115763	14.05	ppm		98
81) Carbazole	10.940	167	109511	13.65	ppm		98
82) Di-n-butylphthalate	11.807	149	125519	13.84	ppm		100
83) Fluoranthene	12.682	202	116172	13.41	ppm		98
85) Benzidine	13.029	184	68047	14.56	ppm		99
86) Pyrene	13.077	202	119652	14.52	ppm		97
88) Butylbenzylphthalate	14.594	149	51329	14.11	ppm		97
89) 3,3'-Dichlorobenzidine	15.433	252	39594	14.20	ppm		99
90) Benzo[a]anthracene	15.356	228	103978	13.65	ppm		98

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\SU2285\
Data File : U049899.D
Acq On : 30 Mar 2015 1:48 pm
Operator : nareshj
Sample : ic2285-10
Misc : op55483,su2285,30.0,,,1,1,soil
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Mar 30 15:26:03 2015
Quant Method : C:\msdchem\2\METHODS\8270da.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Mon Mar 30 15:24:28 2015
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
91) Chrysene	15.433	228	97930	13.68 ppm	98
92) bis(2-Ethylhexyl)phtha...	15.810	149	70663	14.09 ppm	98
94) Di-n-octylphthalate	16.919	149	115752	14.54 ppm	99
95) Benzo[b]fluoranthene	17.277	252	98070	13.49 ppm	100
96) Benzo[k]fluoranthene	17.319	252	99170	14.55 ppm	99
97) Benzo[a]pyrene	17.788	252	95799	13.65 ppm	99
98) Indeno[1,2,3-cd]pyrene	19.473	276	85017	12.68 ppm	100
99) Dibenz[a,h]anthracene	19.519	278	82562	12.47 ppm	98
100) Benzo[g,h,i]perylene	19.811	276	91707	13.01 ppm	99

(#) = qualifier out of range (m) = manual integration (+) = signals summed

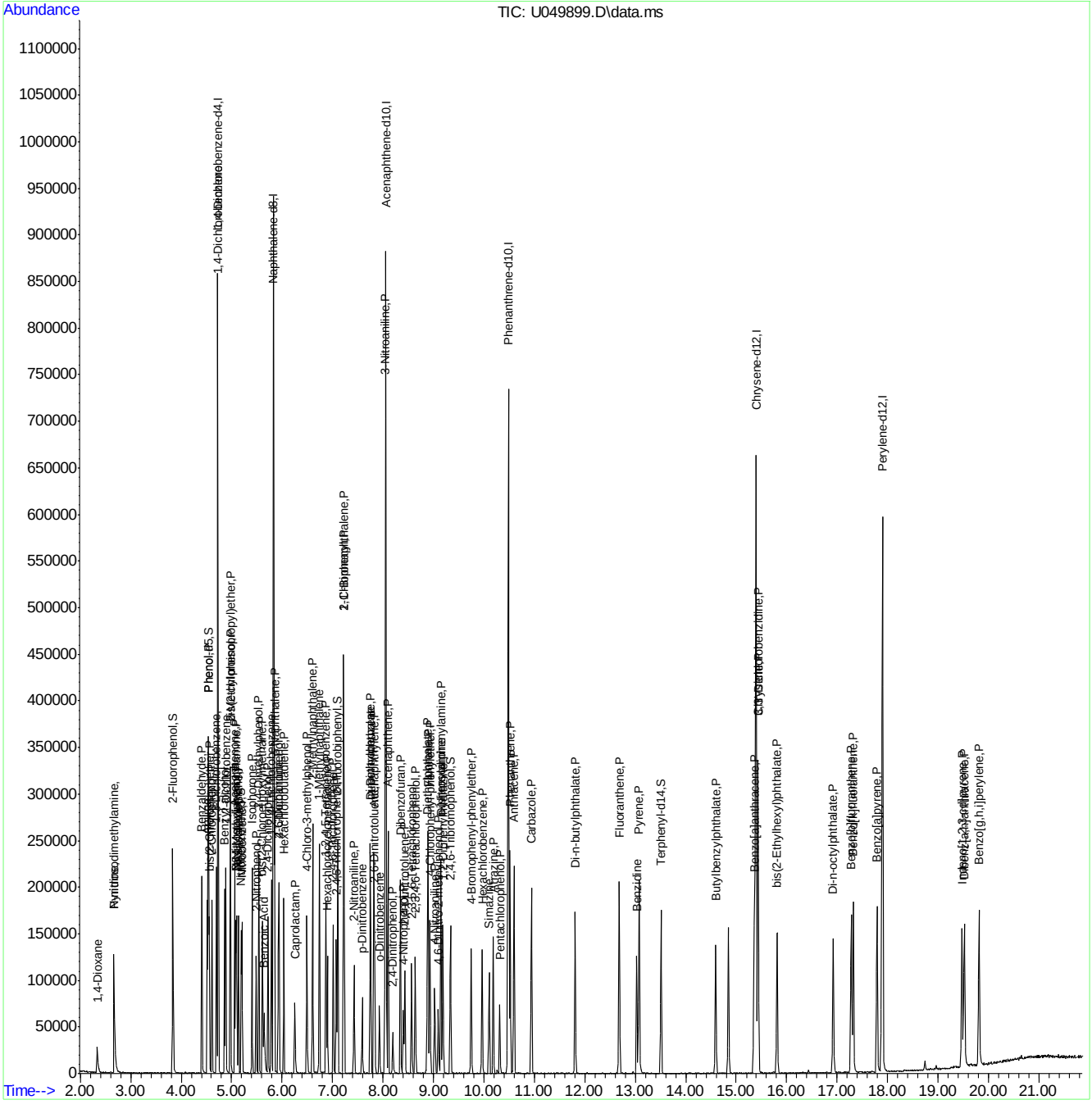
7.6.12

7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\SU2285\
Data File : U049899.D
Acq On : 30 Mar 2015 1:48 pm
Operator : nareshj
Sample : ic2285-10
Misc : op55483,su2285,30.0,,,1,1,soil
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Mar 30 15:26:03 2015
Quant Method : C:\msdchem\2\METHODS\8270da.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Mon Mar 30 15:24:28 2015
Response via : Initial Calibration



ACCUTEST LABORATORIES FA23189

Manual Integrations APPROVED (compounds with "m" flag)
Mike Eger
03/31/15 12:48

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\SU2285\
Data File : U049900.D
Acq On : 30 Mar 2015 2:15 pm
Operator : nareshj
Sample : ic2285-25
Misc : op55483,su2285,30.0,,,1,1,soil
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Mar 30 15:32:36 2015
Quant Method : C:\msdchem\2\METHODS\8270da.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Mon Mar 30 15:24:28 2015
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.723	152	82563	40.00	ppm	0.00
22) Naphthalene-d8	5.825	136	308265	40.00	ppm	0.00
42) Acenaphthene-d10	8.053	164	175264	40.00	ppm	0.00
68) Phenanthrene-d10	10.477	188	287664	40.00	ppm	0.00
84) Chrysene-d12	15.387	240	273361	40.00	ppm	0.00
93) Perylene-d12	17.893	264	244870	40.00	ppm	0.00

System Monitoring Compounds						
7) 2-Fluorophenol	3.831	112	135713	66.90	ppm	0.02
Spiked Amount 100.000	Range 40 - 102		Recovery = 66.90%			
9) Phenol-d5	4.533	99	150945	58.98	ppm	0.01
Spiked Amount 100.000	Range 41 - 100		Recovery = 58.98%			
23) Nitrobenzene-d5	5.189	82	74109	33.19	ppm	0.00
Spiked Amount 50.000	Range 40 - 105		Recovery = 66.38%			
46) 2-Fluorobiphenyl	7.104	172	153966	34.30	ppm	0.00
Spiked Amount 50.000	Range 43 - 107		Recovery = 68.60%			
73) 2,4,6-Tribromophenol	9.335	330	42022	70.49	ppm	0.00
Spiked Amount 100.000	Range 42 - 108		Recovery = 70.49%			
87) Terphenyl-d14	13.506	244	145565	35.19	ppm	0.00
Spiked Amount 50.000	Range 45 - 119		Recovery = 70.38%			

Target Compounds						Qvalue
2) 1,4-Dioxane	2.319	88	28874	35.36	ppm	98
3) N-nitrosodimethylamine	2.660	42	28800	32.56	ppm	95
4) Pyridine	2.652	79	74248	34.24	ppm	98
5) Benzaldehyde	4.408	106	61534	38.82	ppm	97
6) Aniline	4.516	93	113704	33.69	ppm	74
8) bis(2-Chloroethyl)ether	4.555	93	69888	33.81	ppm	98
10) Phenol	4.541	94	90958	31.59	ppm	94
11) 2-Chlorophenol	4.606	128	77084	33.97	ppm	99
12) 1,3-Dichlorobenzene	4.697	146	82473	34.30	ppm	99
13) 1,4-Dichlorobenzene	4.737	146	83904	34.35	ppm	98
14) 1,2-Dichlorobenzene	4.882	146	79380	34.26	ppm	99
15) Benzyl alcohol	4.856	108	50743	34.34	ppm	99
16) bis(2-chloroisopropyl)...	4.970	45	87573	34.54	ppm	87
17) 2-Methylphenol	4.976	108	67388	33.43	ppm	94
18) Acetophenone	5.061	105	99795	33.41	ppm	98
19) Hexachloroethane	5.129	117	30713	33.82	ppm	97
20) N-Nitroso-di-n-propyla...	5.084	70	48248	32.11	ppm	99
21) 3&4-Methylphenol	5.095	108	73071	34.33	ppm	96
24) Nitrobenzene	5.203	77	74085	33.98	ppm	98
25) Isophorone	5.402	82	136357	33.79	ppm	99
26) 2-Nitrophenol	5.484	139	41541	34.13	ppm	97
27) 2,4-Dimethylphenol	5.536	107	70574	33.84	ppm	99
28) bis(2-Chloroethoxy)met...	5.607	93	80749	34.09	ppm	99
29) Benzoic Acid	5.658	105	56309m	38.77	ppm	
30) 2,4-Dichlorophenol	5.717	162	60906	34.44	ppm	96
31) 1,2,4-Trichlorobenzene	5.786	180	65338	34.86	ppm	99
33) Naphthalene	5.845	128	213850	34.13	ppm	99
34) 4-Chloroaniline	5.925	127	94396	33.27	ppm	99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\SU2285\
Data File : U049900.D
Acq On : 30 Mar 2015 2:15 pm
Operator : nareshj
Sample : ic2285-25
Misc : op55483,su2285,30.0,,,1,1,soil
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Mar 30 15:32:36 2015
Quant Method : C:\msdchem\2\METHODS\8270da.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Mon Mar 30 15:24:28 2015
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
35) 2,6-Dichlorophenol	5.939	162	60531	33.89 ppm	98
36) Hexachlorobutadiene	6.033	225	35875	36.02 ppm	95
37) Caprolactam	6.269	113	24087	33.59 ppm	94
38) 4-Chloro-3-methylphenol	6.490	107	61292	33.86 ppm	96
39) 2-Methylnaphthalene	6.604	142	145155	34.01 ppm	99
40) 1-Methylnaphthalene	6.735	142	127075	33.49 ppm	96
41) 1,2,4,5-Tetrachloroben...	6.865	216	66014	34.24 ppm	98
43) Hexachlorocyclopentadiene	6.894	237	42059	38.26 ppm	99
44) 2,4,6-Trichlorophenol	7.010	196	43025	34.88 ppm	99
45) 2,4,5-Trichlorophenol	7.073	196	45388	34.57 ppm	98
47) 1,1'-Biphenyl	7.218	154	169964	34.36 ppm	97
48) 2-Chloronaphthalene	7.223	162	128198	34.43 ppm	100
49) 2-Nitroaniline	7.425	65	38040	33.79 ppm	96
50) p-Dinitrobenzene	7.584	75	27166	33.77 ppm	94
51) Acenaphthylene	7.817	152	214663	34.15 ppm	98
52) Dimethylphthalate	7.749	163	146558	33.87 ppm	99
53) m-Dinitrobenzene	7.752	168	26328	33.49 ppm	98
54) 2,6-Dinitrotoluene	7.837	165	35332	33.54 ppm	97
55) o-Dinitrobenzene	7.931	50	18090	32.51 ppm	95
56) Acenaphthene	8.099	153	132445	34.26 ppm	98
57) 3-Nitroaniline	8.042	138	39575	32.70 ppm	95
58) 2,4-Dinitrophenol	8.190	184	20721	33.25 ppm	97
59) Dibenzofuran	8.343	168	185803	33.76 ppm	98
60) 2,4-Dinitrotoluene	8.434	165	47201	33.46 ppm	95
61) 4-Nitrophenol	8.400	109	17158	33.90 ppm	93
62) 2,3,5,6-Tetrachlorophenol	8.562	232	36688	33.16 ppm	97
63) 2,3,4,6-Tetrachlorophenol	8.636	232	35550	32.91 ppm	96
64) Fluorene	8.894	166	149717	33.88 ppm	100
65) 4-Chlorophenyl-phenyle...	8.928	204	71808	34.68 ppm	99
66) Diethylphthalate	8.880	149	141004	27.32 ppm	98
67) 4-Nitroaniline	9.028	138	39114	32.32 ppm	93
69) 4,6-Dinitro-2-methylph...	9.096	198	28394	35.87 ppm	88
70) n-Nitrosodiphenylamine	9.150	169	126137	41.48 ppm	96
71) Diphenylamine	9.150	169	126137	34.56 ppm	96
72) 1,2-Diphenylhydrazine	9.187	77	140226	35.00 ppm	100
74) 4-Bromophenyl-phenylether	9.744	248	38826	34.71 ppm	94
75) Hexachlorobenzene	9.960	284	44060	34.63 ppm	98
76) Simazine	10.107	201	22405	73.96 ppm	98
77) Atrazine	10.187	200	40405	34.66 ppm	98
78) Pentachlorophenol	10.306	266	24948	32.89 ppm	97
79) Phenanthrene	10.517	178	206809	34.10 ppm	99
80) Anthracene	10.593	178	203894	33.88 ppm	98
81) Carbazole	10.940	167	194715	33.23 ppm	99
82) Di-n-butylphthalate	11.804	149	228359	34.49 ppm	99
83) Fluoranthene	12.679	202	209988	33.20 ppm	99
85) Benzidine	13.026	184	124236	36.37 ppm	98
86) Pyrene	13.074	202	213571	35.45 ppm	99
88) Butylbenzylphthalate	14.588	149	95071	35.76 ppm	97
89) 3,3'-Dichlorobenzidine	15.432	252	72189	35.42 ppm	96
90) Benzo[a]anthracene	15.353	228	189409	34.01 ppm	99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\SU2285\
Data File : U049900.D
Acq On : 30 Mar 2015 2:15 pm
Operator : nareshj
Sample : ic2285-25
Misc : op55483,su2285,30.0,,,1,1,soil
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Mar 30 15:32:36 2015
Quant Method : C:\msdchem\2\METHODS\8270da.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Mon Mar 30 15:24:28 2015
Response via : Initial Calibration

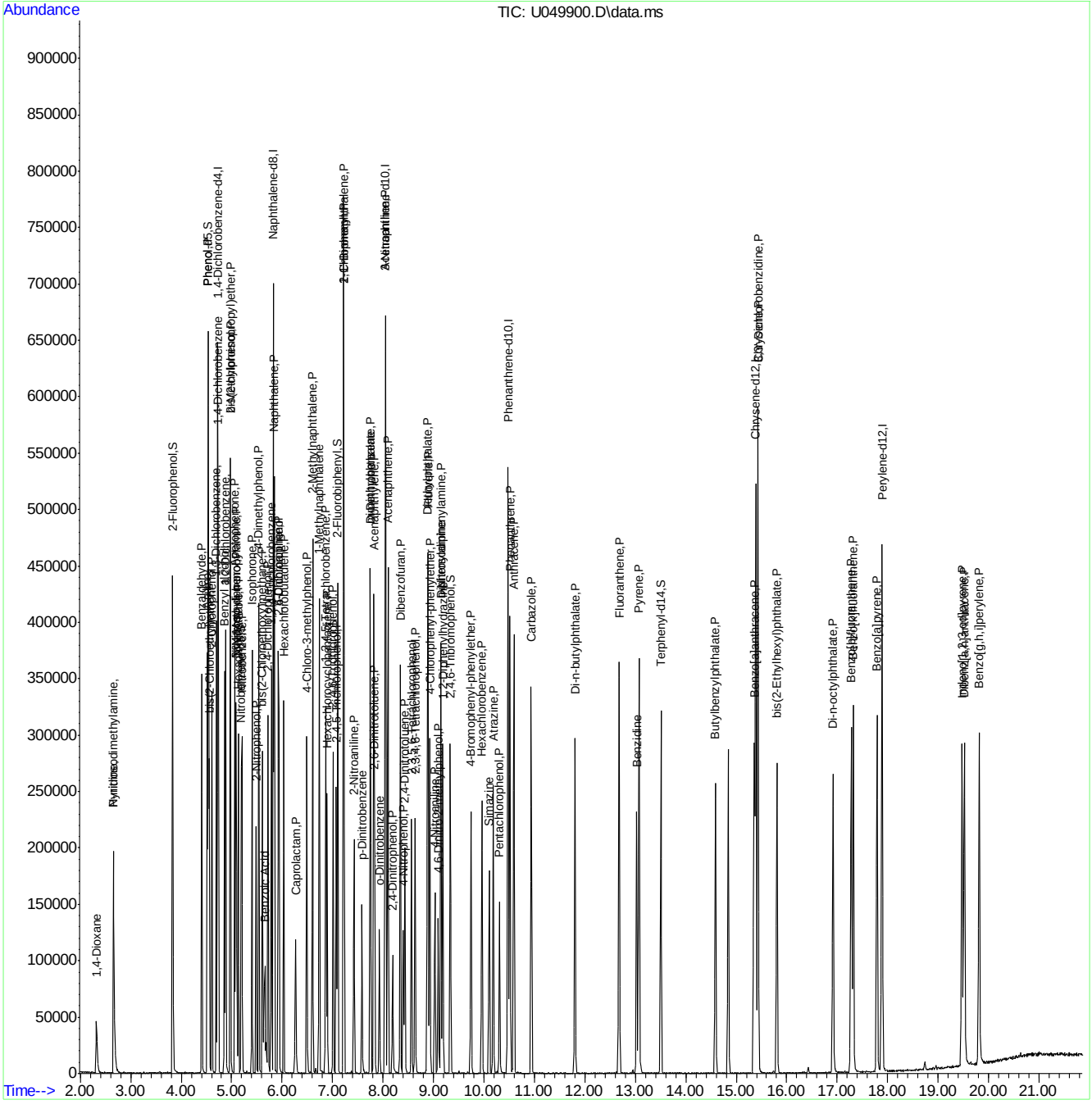
Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
91) Chrysene	15.429	228	174700	33.37 ppm	100
92) bis(2-Ethylhexyl)phtha...	15.805	149	129505	35.31 ppm	99
94) Di-n-octylphthalate	16.916	149	217376	37.37 ppm	98
95) Benzo[b]fluoranthene	17.279	252	182893	34.43 ppm	100
96) Benzo[k]fluoranthene	17.319	252	175761	35.29 ppm	96
97) Benzo[a]pyrene	17.791	252	175720	34.25 ppm	100
98) Indeno[1,2,3-cd]pyrene	19.476	276	161859	33.02 ppm	98
99) Dibenz[a,h]anthracene	19.521	278	158744	32.81 ppm	97
100) Benzo[g,h,i]perylene	19.817	276	168997	32.80 ppm	98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\SU2285\
Data File : U049900.D
Acq On : 30 Mar 2015 2:15 pm
Operator : nareshj
Sample : ic2285-25
Misc : op55483,su2285,30.0,,,1,1,soil
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Mar 30 15:32:36 2015
Quant Method : C:\msdchem\2\METHODS\8270da.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Mon Mar 30 15:24:28 2015
Response via : Initial Calibration



ACCUTEST LABORATORIES FA23189

Manual Integration Approval Summary

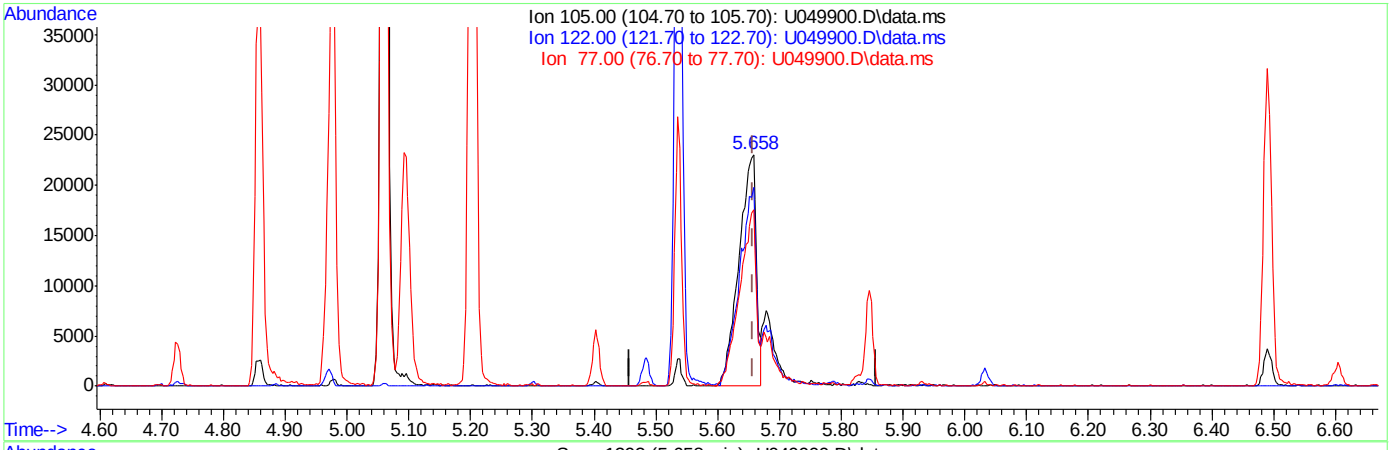
Sample Number:	SU2285-IC2285	**Method:**	SW846 8270D
Lab FileID:	U049900.D	**Analyst approved:**	03/31/15 08:47 Naresh Jiawan
Injection Time:	03/30/15 14:15	**Supervisor approved:**	03/31/15 12:48 Mike Eger

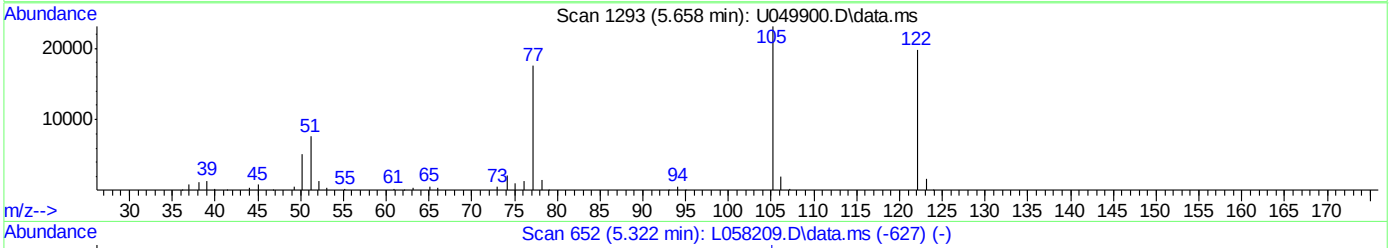
Parameter	CAS	Sig#	R.T. (min.)	Reason
Benzoic Acid	65-85-0		5.66	Split peak

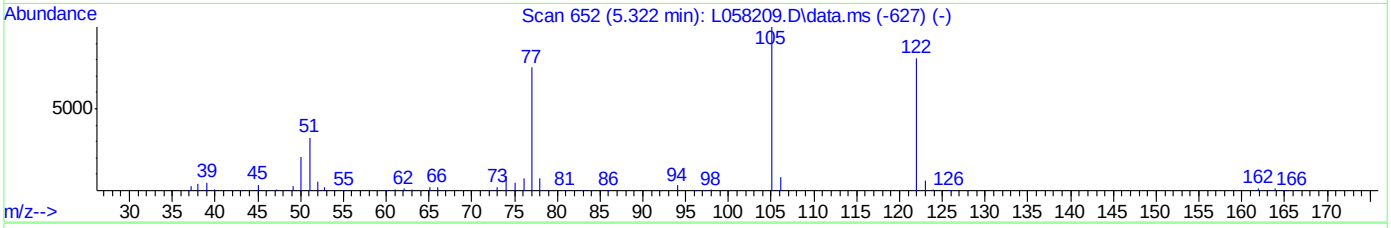
Quantitation Report (Qedit)

Data Path : C:\msdchem\2\DATA\SU2285\
Data File : U049900.D
Acq On : 30 Mar 2015 2:15 pm
Operator : nareshj
Sample : ic2285-25
Misc : op55483,su2285,30.0,,,1,1,soil
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Mar 30 15:26:05 2015
Quant Method : C:\msdchem\2\METHODS\8270da.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Mon Mar 30 15:24:28 2015
Response via : Initial Calibration







TIC: U049900.D\data.ms

(29) Benzoic Acid

5.658min (-0.000) 30.92ppm

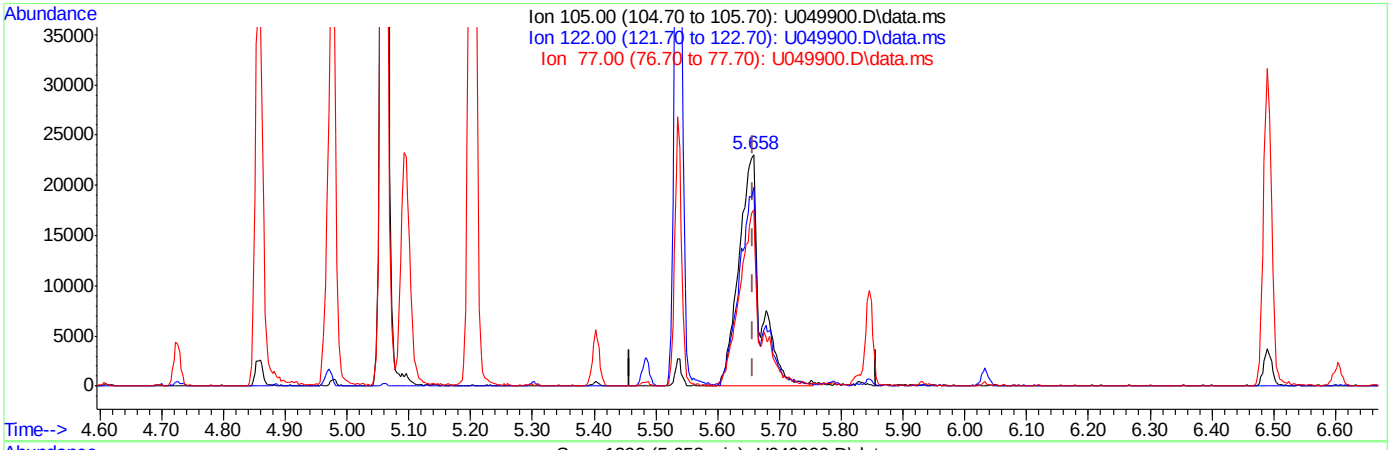
response 44910

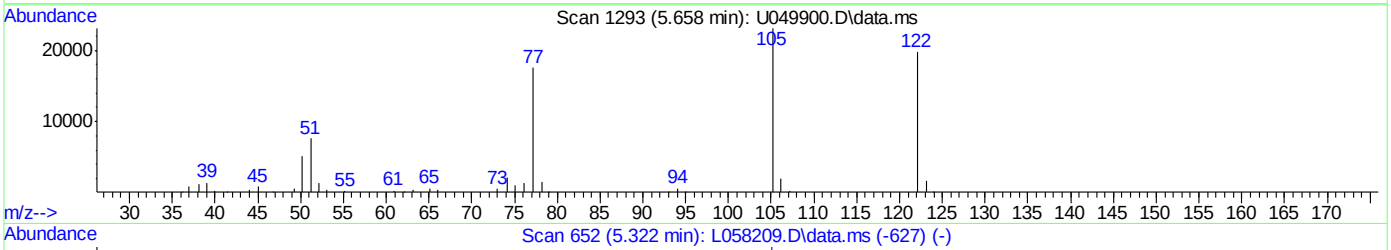
Ion	Exp%	Act%
105.00	100	100
122.00	81.20	85.67
77.00	73.70	75.20
0.00	0.00	0.00

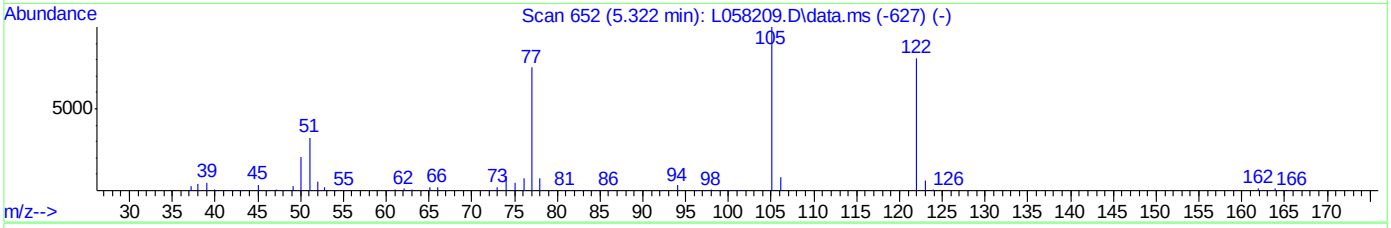
Quantitation Report (Qedit)

Data Path : C:\msdchem\2\DATA\SU2285\
Data File : U049900.D
Acq On : 30 Mar 2015 2:15 pm
Operator : nareshj
Sample : ic2285-25
Misc : op55483,su2285,30.0,,,1,1,soil
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Mar 30 15:26:05 2015
Quant Method : C:\msdchem\2\METHODS\8270da.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Mon Mar 30 15:24:28 2015
Response via : Initial Calibration







TIC: U049900.D\data.ms

(29) Benzoic Acid

5.658min (-0.000) 38.77ppm m

response 56309

Ion	Exp%	Act%
105.00	100	100
122.00	81.20	85.64
77.00	73.70	75.97
0.00	0.00	0.00

Manual Integrations APPROVED (compounds with "m" flag)
Mike Eger
03/31/15 12:48

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\SU2285\
Data File : U049901.D
Acq On : 30 Mar 2015 2:42 pm
Operator : nareshj
Sample : icc2285-50
Misc : op55483,su2285,30.0,,,1,1,soil
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Mar 30 15:33:35 2015
Quant Method : C:\msdchem\2\METHODS\8270da.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Mon Mar 30 15:24:28 2015
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.726	152	83828	40.00	ppm	0.00
22) Naphthalene-d8	5.828	136	318088	40.00	ppm	0.00
42) Acenaphthene-d10	8.053	164	182593	40.00	ppm	0.00
68) Phenanthrene-d10	10.480	188	299342	40.00	ppm	0.00
84) Chrysene-d12	15.393	240	273875	40.00	ppm	0.00
93) Perylene-d12	17.896	264	248396	40.00	ppm	0.00

System Monitoring Compounds

7) 2-Fluorophenol	3.831	112	284490	138.11	ppm	0.02
Spiked Amount 100.000	Range 40 - 102		Recovery = 138.11%#			
9) Phenol-d5	4.535	99	305119	117.42	ppm	0.01
Spiked Amount 100.000	Range 41 - 100		Recovery = 117.42%#			
23) Nitrobenzene-d5	5.192	82	154109	66.88	ppm	0.00
Spiked Amount 50.000	Range 40 - 105		Recovery = 133.76%#			
46) 2-Fluorobiphenyl	7.107	172	317386	67.87	ppm	0.00
Spiked Amount 50.000	Range 43 - 107		Recovery = 135.74%#			
73) 2,4,6-Tribromophenol	9.340	330	90494	145.88	ppm	0.00
Spiked Amount 100.000	Range 42 - 108		Recovery = 145.88%#			
87) Terphenyl-d14	13.512	244	300029	72.39	ppm	0.00
Spiked Amount 50.000	Range 45 - 119		Recovery = 144.78%#			

Target Compounds

						Qvalue
2) 1,4-Dioxane	2.325	88	59263	71.48	ppm	95
3) N-nitrosodimethylamine	2.660	42	60114	66.94	ppm	97
4) Pyridine	2.654	79	158288	71.90	ppm	96
5) Benzaldehyde	4.408	106	123539	76.77	ppm	99
6) Aniline	4.518	93	232915	67.98	ppm	84
8) bis(2-Chloroethyl)ether	4.558	93	143541	68.40	ppm	99
10) Phenol	4.544	94	184741	63.20	ppm	97
11) 2-Chlorophenol	4.609	128	156970	68.13	ppm	100
12) 1,3-Dichlorobenzene	4.697	146	168773	69.13	ppm	98
13) 1,4-Dichlorobenzene	4.737	146	170978	68.94	ppm	98
14) 1,2-Dichlorobenzene	4.885	146	161356	68.58	ppm	98
15) Benzyl alcohol	4.862	108	104994	69.98	ppm	99
16) bis(2-chloroisopropyl)...	4.973	45	178458	69.32	ppm	83
17) 2-Methylphenol	4.982	108	138625	67.73	ppm	94
18) Acetophenone	5.064	105	207089	68.29	ppm	99
19) Hexachloroethane	5.132	117	63104	68.45	ppm	97
20) N-Nitroso-di-n-propyla...	5.090	70	97078	63.63	ppm	98
21) 3&4-Methylphenol	5.095	108	146600	67.84	ppm	94
24) Nitrobenzene	5.206	77	151959	67.56	ppm	97
25) Isophorone	5.408	82	281435	67.59	ppm	99
26) 2-Nitrophenol	5.487	139	87474	69.65	ppm	98
27) 2,4-Dimethylphenol	5.538	107	147595	68.59	ppm	95
28) bis(2-Chloroethoxy)met...	5.609	93	166915	68.29	ppm	99
29) Benzoic Acid	5.686	105	123266m	82.25	ppm	
30) 2,4-Dichlorophenol	5.720	162	125513	68.79	ppm	98
31) 1,2,4-Trichlorobenzene	5.789	180	132436	68.47	ppm	96
33) Naphthalene	5.848	128	437916	67.73	ppm	99
34) 4-Chloroaniline	5.931	127	194300	66.37	ppm	97

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\SU2285\
Data File : U049901.D
Acq On : 30 Mar 2015 2:42 pm
Operator : nareshj
Sample : icc2285-50
Misc : op55483,su2285,30.0,,,1,1,soil
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Mar 30 15:33:35 2015
Quant Method : C:\msdchem\2\METHODS\8270da.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Mon Mar 30 15:24:28 2015
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
35) 2,6-Dichlorophenol	5.942	162	125538	68.12	ppm	99
36) Hexachlorobutadiene	6.036	225	72314	70.37	ppm	95
37) Caprolactam	6.303	113	51255	69.27	ppm	90
38) 4-Chloro-3-methylphenol	6.496	107	126546	67.75	ppm	97
39) 2-Methylnaphthalene	6.607	142	297747	67.61	ppm	97
40) 1-Methylnaphthalene	6.738	142	260447	66.52	ppm	96
41) 1,2,4,5-Tetrachloroben...	6.865	216	134913	67.82	ppm	99
43) Hexachlorocyclopentadiene	6.894	237	91254	79.68	ppm	98
44) 2,4,6-Trichlorophenol	7.013	196	90158	70.15	ppm	95
45) 2,4,5-Trichlorophenol	7.079	196	96073	70.23	ppm	97
47) 1,1'-Biphenyl	7.223	154	352430	68.38	ppm	99
48) 2-Chloronaphthalene	7.229	162	264683	68.24	ppm	99
49) 2-Nitroaniline	7.431	65	80522	68.66	ppm	97
50) p-Dinitrobenzene	7.590	75	57750	68.92	ppm	96
51) Acenaphthylene	7.823	152	443440	67.71	ppm	99
52) Dimethylphthalate	7.758	163	303489	67.31	ppm	99
53) m-Dinitrobenzene	7.760	168	56215	68.65	ppm	97
54) 2,6-Dinitrotoluene	7.843	165	73835	67.29	ppm	96
55) o-Dinitrobenzene	7.939	50	39131	67.49	ppm	94
56) Acenaphthene	8.104	153	269652	66.96	ppm	99
57) 3-Nitroaniline	8.050	138	82801	65.67	ppm	95
58) 2,4-Dinitrophenol	8.198	184	50421	77.66	ppm	92
59) Dibenzofuran	8.349	168	388771	67.80	ppm	100
60) 2,4-Dinitrotoluene	8.442	165	100720	68.53	ppm	95
61) 4-Nitrophenol	8.408	109	36454	69.14	ppm	96
62) 2,3,5,6-Tetrachlorophenol	8.567	232	80284	69.66	ppm	99
63) 2,3,4,6-Tetrachlorophenol	8.641	232	77759	69.10	ppm	95
64) Fluorene	8.900	166	305647	66.39	ppm	99
65) 4-Chlorophenyl-phenyle...	8.934	204	147217	68.24	ppm	99
66) Diethylphthalate	8.889	149	292246	54.35	ppm	98
67) 4-Nitroaniline	9.048	138	85123	67.52	ppm	96
69) 4,6-Dinitro-2-methylph...	9.107	198	63911	77.58	ppm	89
70) n-Nitrosodiphenylamine	9.158	169	264810	83.68	ppm	97
71) Diphenylamine	9.158	169	264810	69.73	ppm	97
72) 1,2-Diphenylhydrazine	9.193	77	294572	70.66	ppm	99
74) 4-Bromophenyl-phenylether	9.747	248	83742	71.95	ppm	96
75) Hexachlorobenzene	9.965	284	92446	69.83	ppm	100
76) Simazine	10.125	201	45975	145.84	ppm	98
77) Atrazine	10.201	200	85142	70.19	ppm	95
78) Pentachlorophenol	10.315	266	58258	73.81	ppm	96
79) Phenanthrene	10.522	178	427775	67.78	ppm	99
80) Anthracene	10.602	178	429598	68.61	ppm	98
81) Carbazole	10.949	167	404485	66.34	ppm	98
82) Di-n-butylphthalate	11.810	149	474247	68.83	ppm	100
83) Fluoranthene	12.688	202	435853	66.21	ppm	99
85) Benzidine	13.034	184	266091	77.76	ppm	97
86) Pyrene	13.082	202	438094	72.57	ppm	99
88) Butylbenzylphthalate	14.594	149	199265	74.81	ppm	98
89) 3,3'-Dichlorobenzidine	15.438	252	146793	71.89	ppm	98
90) Benzo[a]anthracene	15.361	228	389381	69.78	ppm	99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\SU2285\
Data File : U049901.D
Acq On : 30 Mar 2015 2:42 pm
Operator : nareshj
Sample : icc2285-50
Misc : op55483,su2285,30.0,,,1,1,soil
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Mar 30 15:33:35 2015
Quant Method : C:\msdchem\2\METHODS\8270da.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Mon Mar 30 15:24:28 2015
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
91) Chrysene	15.441	228	360365	68.70 ppm	99
92) bis(2-Ethylhexyl)phtha...	15.807	149	270986	73.75 ppm	98
94) Di-n-octylphthalate	16.924	149	458507	77.70 ppm	99
95) Benzo[b]fluoranthene	17.288	252	376777	69.92 ppm	99
96) Benzo[k]fluoranthene	17.333	252	360696	71.39 ppm	98
97) Benzo[a]pyrene	17.802	252	365037	70.15 ppm	99
98) Indeno[1,2,3-cd]pyrene	19.487	276	343055	68.99 ppm	99
99) Dibenz[a,h]anthracene	19.533	278	344700	70.23 ppm	98
100) Benzo[g,h,i]perylene	19.834	276	351339	67.22 ppm	98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

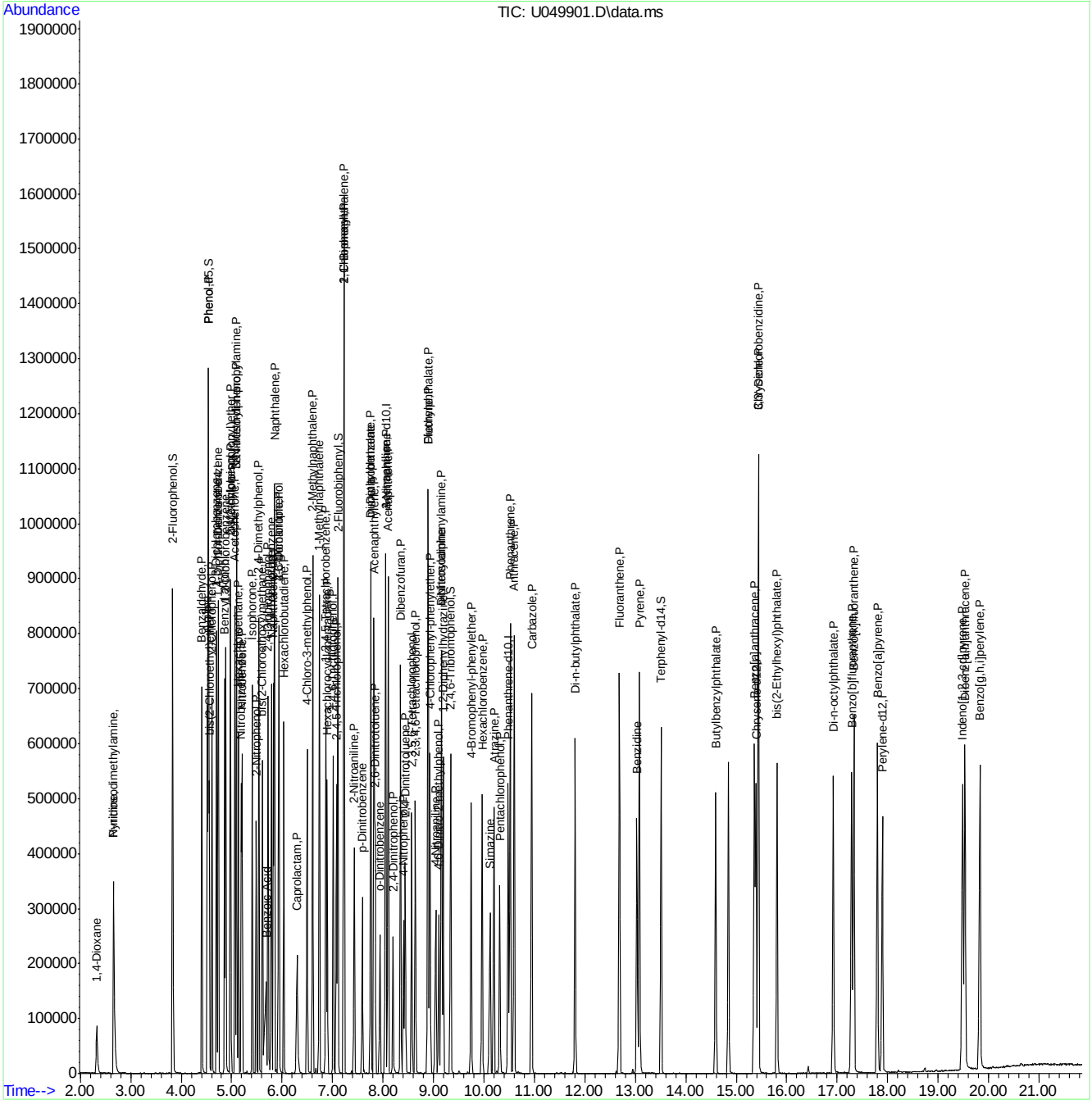
7.6.14

7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\SU2285\
Data File : U049901.D
Acq On : 30 Mar 2015 2:42 pm
Operator : nareshj
Sample : icc2285-50
Misc : op55483,su2285,30.0,,,1,1,soil
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Mar 30 15:33:35 2015
Quant Method : C:\msdchem\2\METHODS\8270da.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Mon Mar 30 15:24:28 2015
Response via : Initial Calibration



ACCUTEST LABORATORIES FA23189

Manual Integration Approval Summary

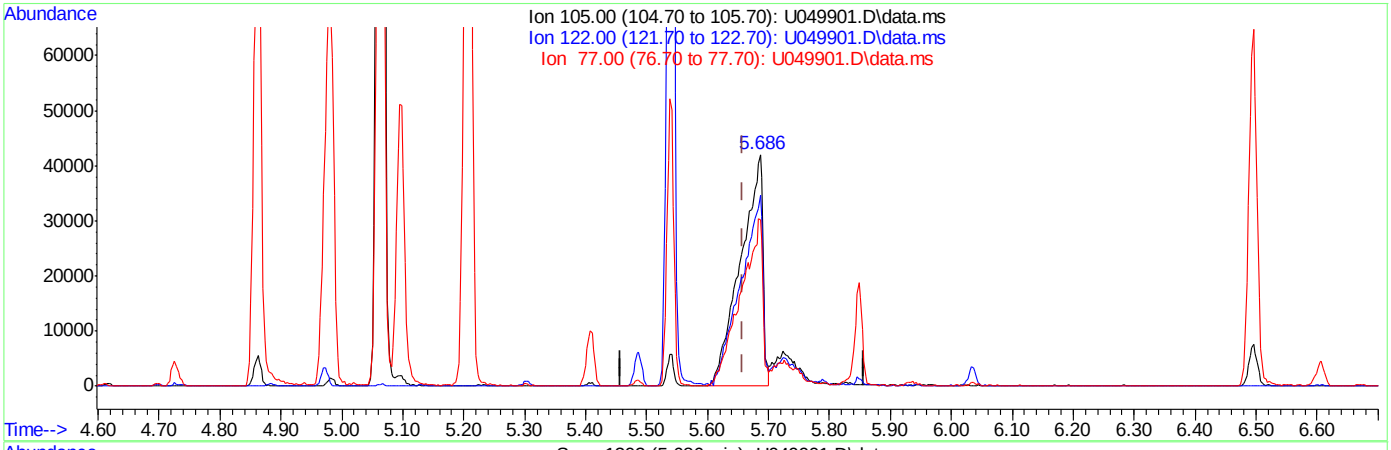
Sample Number:	SU2285-ICC2285	**Method:**	SW846 8270D
Lab FileID:	U049901.D	**Analyst approved:**	03/31/15 08:47 Naresh Jiawan
Injection Time:	03/30/15 14:42	**Supervisor approved:**	03/31/15 12:48 Mike Eger

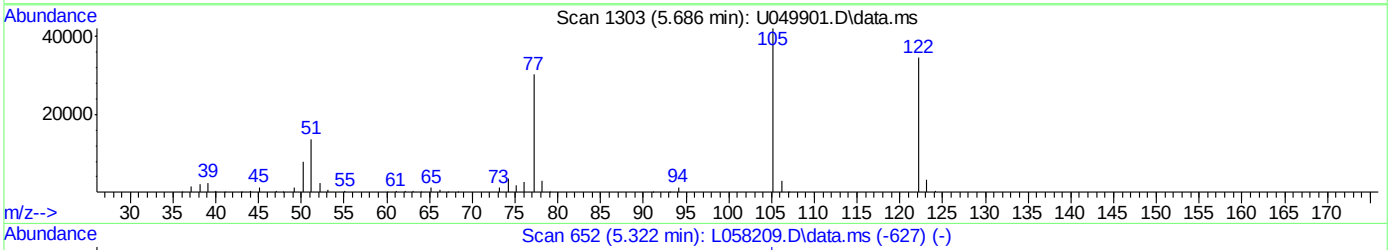
Parameter	CAS	Sig#	R.T. (min.)	Reason
Benzoic Acid	65-85-0		5.69	Split peak

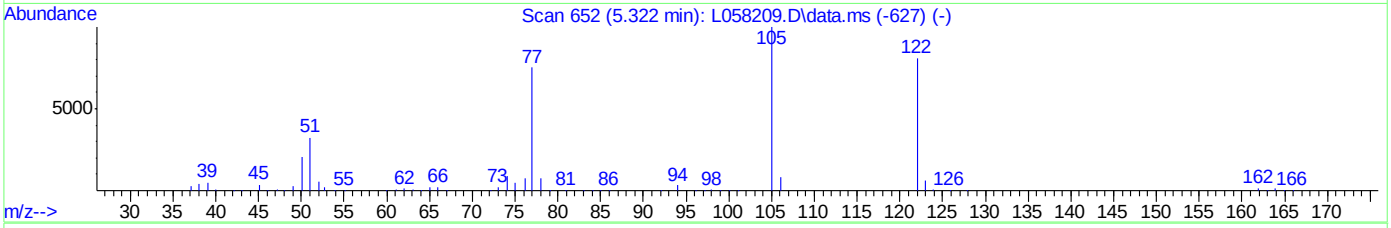
Quantitation Report (Qedit)

Data Path : C:\msdchem\2\DATA\SU2285\
Data File : U049901.D
Acq On : 30 Mar 2015 2:42 pm
Operator : nareshj
Sample : icc2285-50
Misc : op55483,su2285,30.0,,,1,1,soil
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Mar 30 15:26:07 2015
Quant Method : C:\msdchem\2\METHODS\8270da.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Mon Mar 30 15:24:28 2015
Response via : Initial Calibration







TIC: U049901.D\data.ms

(29) Benzoic Acid

5.686min (+0.028) 70.89ppm

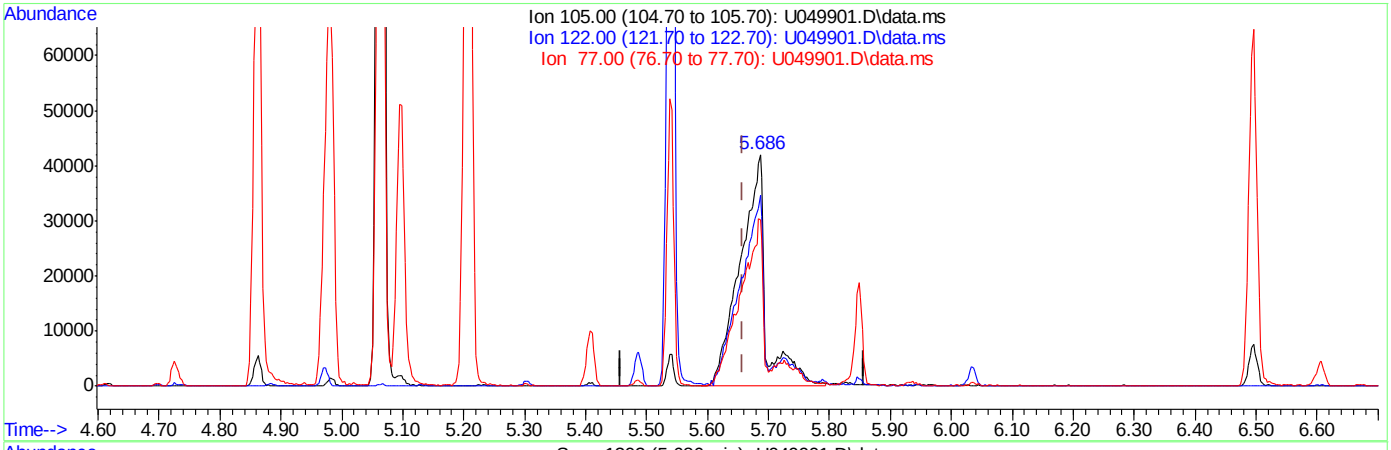
response 106241

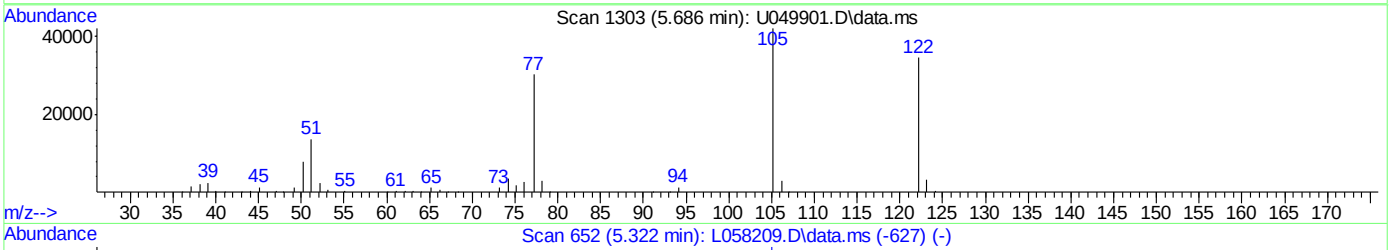
Ion	Exp%	Act%
105.00	100	100
122.00	81.20	81.96
77.00	73.70	72.00
0.00	0.00	0.00

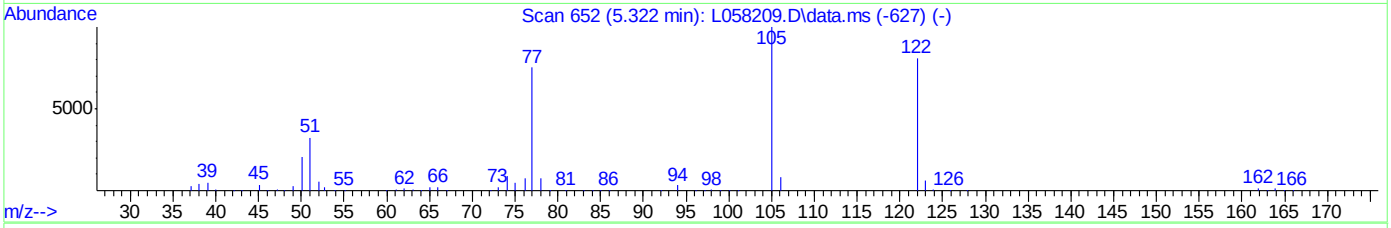
Quantitation Report (Qedit)

Data Path : C:\msdchem\2\DATA\SU2285\
Data File : U049901.D
Acq On : 30 Mar 2015 2:42 pm
Operator : nareshj
Sample : icc2285-50
Misc : op55483,su2285,30.0,,,1,1,soil
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Mar 30 15:26:07 2015
Quant Method : C:\msdchem\2\METHODS\8270da.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Mon Mar 30 15:24:28 2015
Response via : Initial Calibration







TIC: U049901.D\data.ms

(29) Benzoic Acid

5.686min (+0.028) 82.25ppm m

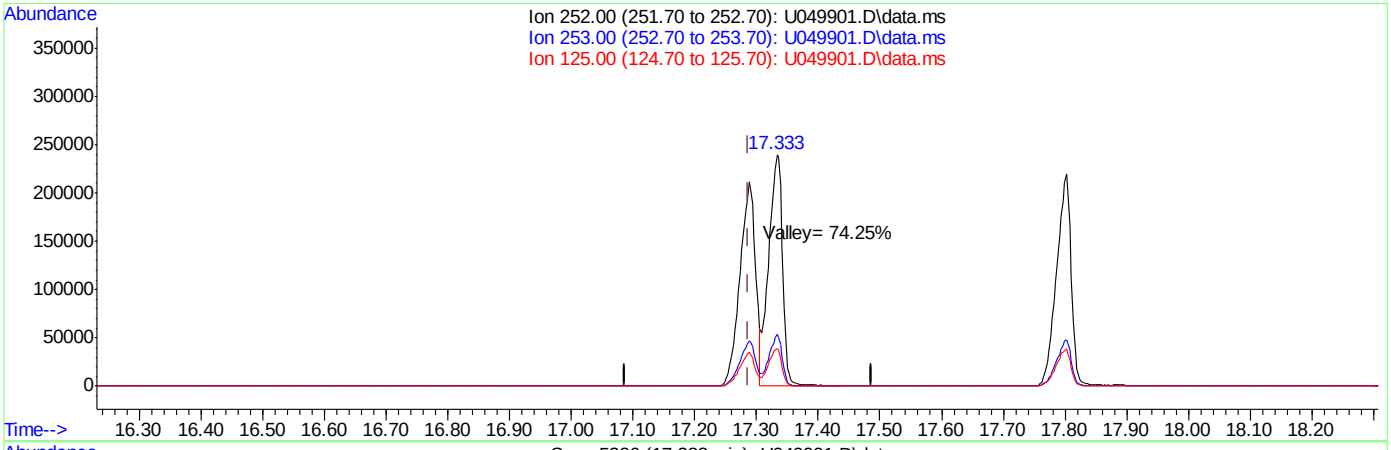
response 123266

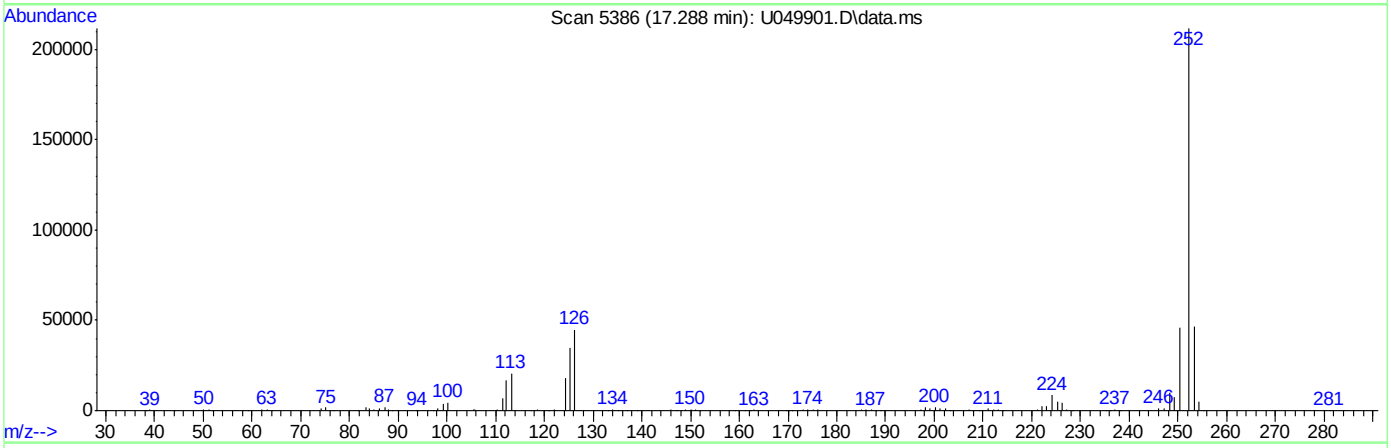
Ion	Exp%	Act%
105.00	100	100
122.00	81.20	82.19
77.00	73.70	71.82
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\DATA\SU2285\
Data File : U049901.D
Acq On : 30 Mar 2015 2:42 pm
Operator : nareshj
Sample : icc2285-50
Misc : op55483,su2285,30.0,,,1,1,soil
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Mar 30 15:33:35 2015
Quant Method : C:\msdchem\2\METHODS\8270da.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Mon Mar 30 15:24:28 2015
Response via : Initial Calibration





TIC: U049901.D\data.ms

(95) Benzo[b]fluoranthene (P)

17.288min (+0.000) 69.92ppm

response 376777

Ion	Exp%	Act%
252.00	100	100
253.00	21.10	21.60
125.00	16.00	16.36
0.00	0.00	0.00

Manual Integrations APPROVED (compounds with "m" flag)
Mike Eger
03/31/15 12:48

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\SU2285\
Data File : U049902.D
Acq On : 30 Mar 2015 3:08 pm
Operator : nareshj
Sample : ic2285-60
Misc : op55483,su2285,30.0,,,1,1,soil
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Mar 30 15:35:11 2015
Quant Method : C:\msdchem\2\METHODS\8270da.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Mon Mar 30 15:24:28 2015
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.726	152	79777	40.00	ppm	0.00
22) Naphthalene-d8	5.828	136	305102	40.00	ppm	0.00
42) Acenaphthene-d10	8.056	164	172232	40.00	ppm	0.00
68) Phenanthrene-d10	10.483	188	288607	40.00	ppm	0.00
84) Chrysene-d12	15.395	240	266597	40.00	ppm	0.00
93) Perylene-d12	17.899	264	244118	40.00	ppm	0.00

System Monitoring Compounds						
7) 2-Fluorophenol	3.834	112	386278	197.05	ppm	0.02
Spiked Amount 100.000	Range 40 - 102		Recovery = 197.05%#			
9) Phenol-d5	4.538	99	410520	166.01	ppm	0.02
Spiked Amount 100.000	Range 41 - 100		Recovery = 166.01%#			
23) Nitrobenzene-d5	5.195	82	209631	94.85	ppm	0.00
Spiked Amount 50.000	Range 40 - 105		Recovery = 189.70%#			
46) 2-Fluorobiphenyl	7.110	172	426305	96.65	ppm	0.00
Spiked Amount 50.000	Range 43 - 107		Recovery = 193.30%#			
73) 2,4,6-Tribromophenol	9.349	330	121724	203.52	ppm	0.00
Spiked Amount 100.000	Range 42 - 108		Recovery = 203.52%#			
87) Terphenyl-d14	13.514	244	415751	103.05	ppm	0.00
Spiked Amount 50.000	Range 45 - 119		Recovery = 206.10%#			

Target Compounds						Qvalue
2) 1,4-Dioxane	2.328	88	80620	102.18	ppm	99
3) N-nitrosodimethylamine	2.663	42	82167	96.14	ppm	95
4) Pyridine	2.654	79	217040	103.59	ppm	97
5) Benzaldehyde	4.408	106	121863	79.57	ppm	97
6) Aniline	4.518	93	313479	96.14	ppm	87
8) bis(2-Chloroethyl)ether	4.558	93	194946	97.62	ppm	98
10) Phenol	4.547	94	250092	89.90	ppm	97
11) 2-Chlorophenol	4.609	128	210967	96.21	ppm	99
12) 1,3-Dichlorobenzene	4.700	146	223488	96.19	ppm	98
13) 1,4-Dichlorobenzene	4.740	146	226587	96.00	ppm	98
14) 1,2-Dichlorobenzene	4.885	146	215596	96.29	ppm	99
15) Benzyl alcohol	4.865	108	141661	99.22	ppm	97
16) bis(2-chloroisopropyl)...	4.973	45	239313	97.68	ppm	82
17) 2-Methylphenol	4.984	108	188390	96.72	ppm	93
18) Acetophenone	5.067	105	230943	80.02	ppm	99
19) Hexachloroethane	5.132	117	86011	98.03	ppm	96
20) N-Nitroso-di-n-propyla...	5.095	70	128600	88.57	ppm	95
21) 3&4-Methylphenol	5.098	108	199352	96.93	ppm	97
24) Nitrobenzene	5.209	77	206872	95.88	ppm	98
25) Isophorone	5.411	82	382079	95.66	ppm	100
26) 2-Nitrophenol	5.487	139	120020	99.63	ppm	97
27) 2,4-Dimethylphenol	5.541	107	197484	95.68	ppm	96
28) bis(2-Chloroethoxy)met...	5.612	93	224672	95.83	ppm	99
29) Benzoic Acid	5.706	105	170096m	118.33	ppm	
30) 2,4-Dichlorophenol	5.723	162	167581	95.75	ppm	98
31) 1,2,4-Trichlorobenzene	5.789	180	181804	97.99	ppm	97
33) Naphthalene	5.851	128	587912	94.80	ppm	99
34) 4-Chloroaniline	5.933	127	260940	92.93	ppm	99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\SU2285\
Data File : U049902.D
Acq On : 30 Mar 2015 3:08 pm
Operator : nareshj
Sample : ic2285-60
Misc : op55483,su2285,30.0,,,1,1,soil
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Mar 30 15:35:11 2015
Quant Method : C:\msdchem\2\METHODS\8270da.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Mon Mar 30 15:24:28 2015
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
35) 2,6-Dichlorophenol	5.945	162	170712	96.58	ppm	97
36) Hexachlorobutadiene	6.036	225	98090	99.51	ppm	98
37) Caprolactam	6.306	113	58061m	81.81	ppm	
38) 4-Chloro-3-methylphenol	6.499	107	171033	95.47	ppm	99
39) 2-Methylnaphthalene	6.610	142	398530	94.34	ppm	97
40) 1-Methylnaphthalene	6.740	142	352357	93.83	ppm	97
41) 1,2,4,5-Tetrachloroben...	6.868	216	181609	95.18	ppm	98
43) Hexachlorocyclopentadiene	6.897	237	125171	115.87	ppm	99
44) 2,4,6-Trichlorophenol	7.016	196	123585	101.94	ppm	99
45) 2,4,5-Trichlorophenol	7.079	196	129969	100.72	ppm	97
47) 1,1'-Biphenyl	7.223	154	390639	80.36	ppm	98
48) 2-Chloronaphthalene	7.232	162	358119	97.88	ppm	97
49) 2-Nitroaniline	7.437	65	110060	99.49	ppm	99
50) p-Dinitrobenzene	7.596	75	80589	101.95	ppm	95
51) Acenaphthylene	7.826	152	599510	97.04	ppm	98
52) Dimethylphthalate	7.763	163	408897	96.15	ppm	99
53) m-Dinitrobenzene	7.766	168	75580	97.84	ppm	94
54) 2,6-Dinitrotoluene	7.849	165	101112	97.69	ppm	93
55) o-Dinitrobenzene	7.948	50	53433	97.71	ppm	93
56) Acenaphthene	8.107	153	367669	96.79	ppm	98
57) 3-Nitroaniline	8.056	138	113713	95.61	ppm	100
58) 2,4-Dinitrophenol	8.204	184	72516	118.41	ppm	96
59) Dibenzofuran	8.351	168	523958	96.88	ppm	99
60) 2,4-Dinitrotoluene	8.451	165	137356	99.07	ppm	96
61) 4-Nitrophenol	8.414	109	51624	103.80	ppm	97
62) 2,3,5,6-Tetrachlorophenol	8.570	232	109626	100.84	ppm	99
63) 2,3,4,6-Tetrachlorophenol	8.644	232	105828	99.70	ppm	99
64) Fluorene	8.903	166	413911	95.32	ppm	99
65) 4-Chlorophenyl-phenyle...	8.937	204	199707	98.14	ppm	99
66) Diethylphthalate	8.894	149	394316	77.75	ppm	98
67) 4-Nitroaniline	9.059	138	117726	99.00	ppm	98
69) 4,6-Dinitro-2-methylph...	9.116	198	89951	113.26	ppm	93
70) n-Nitrosodiphenylamine	9.164	169	359325	117.77	ppm	97
71) Diphenylamine	9.164	169	359325	98.14	ppm	97
72) 1,2-Diphenylhydrazine	9.198	77	400290	99.59	ppm	98
74) 4-Bromophenyl-phenylether	9.749	248	113306	100.97	ppm	99
75) Hexachlorobenzene	9.971	284	125469	98.30	ppm	98
76) Simazine	10.136	201	62937	207.08	ppm	95
77) Atrazine	10.207	200	94884	81.13	ppm	97
78) Pentachlorophenol	10.318	266	81405	106.98	ppm	97
79) Phenanthrene	10.528	178	585367	96.20	ppm	100
80) Anthracene	10.608	178	583344	96.63	ppm	98
81) Carbazole	10.951	167	551036	93.73	ppm	99
82) Di-n-butylphthalate	11.812	149	650080	97.86	ppm	100
83) Fluoranthene	12.690	202	591740	93.24	ppm	100
85) Benzidine	13.037	184	358051	107.48	ppm	98
86) Pyrene	13.085	202	597626	101.70	ppm	100
88) Butylbenzylphthalate	14.597	149	276548	106.66	ppm	95
89) 3,3'-Dichlorobenzidine	15.444	252	202450	101.86	ppm	94
90) Benzo[a]anthracene	15.367	228	536577	98.78	ppm	99

ACCUTEST LABORATORIES FA23189

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\SU2285\
Data File : U049902.D
Acq On : 30 Mar 2015 3:08 pm
Operator : nareshj
Sample : ic2285-60
Misc : op55483,su2285,30.0,,,1,1,soil
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Mar 30 15:35:11 2015
Quant Method : C:\msdchem\2\METHODS\8270da.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Mon Mar 30 15:24:28 2015
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
91) Chrysene	15.447	228	501921	98.30 ppm	99
92) bis(2-Ethylhexyl)phtha...	15.810	149	377014	105.41 ppm	97
94) Di-n-octylphthalate	16.924	149	637326	109.89 ppm	99
95) Benzo[b]fluoranthene	17.296	252	521488	98.47 ppm	99
96) Benzo[k]fluoranthene	17.342	252	497010	100.09 ppm	97
97) Benzo[a]pyrene	17.811	252	508117	99.36 ppm	99
98) Indeno[1,2,3-cd]pyrene	19.496	276	480935	98.42 ppm	98
99) Dibenz[a,h]anthracene	19.544	278	481213	99.77 ppm	98
100) Benzo[g,h,i]perylene	19.842	276	489968	95.39 ppm	100

(#) = qualifier out of range (m) = manual integration (+) = signals summed

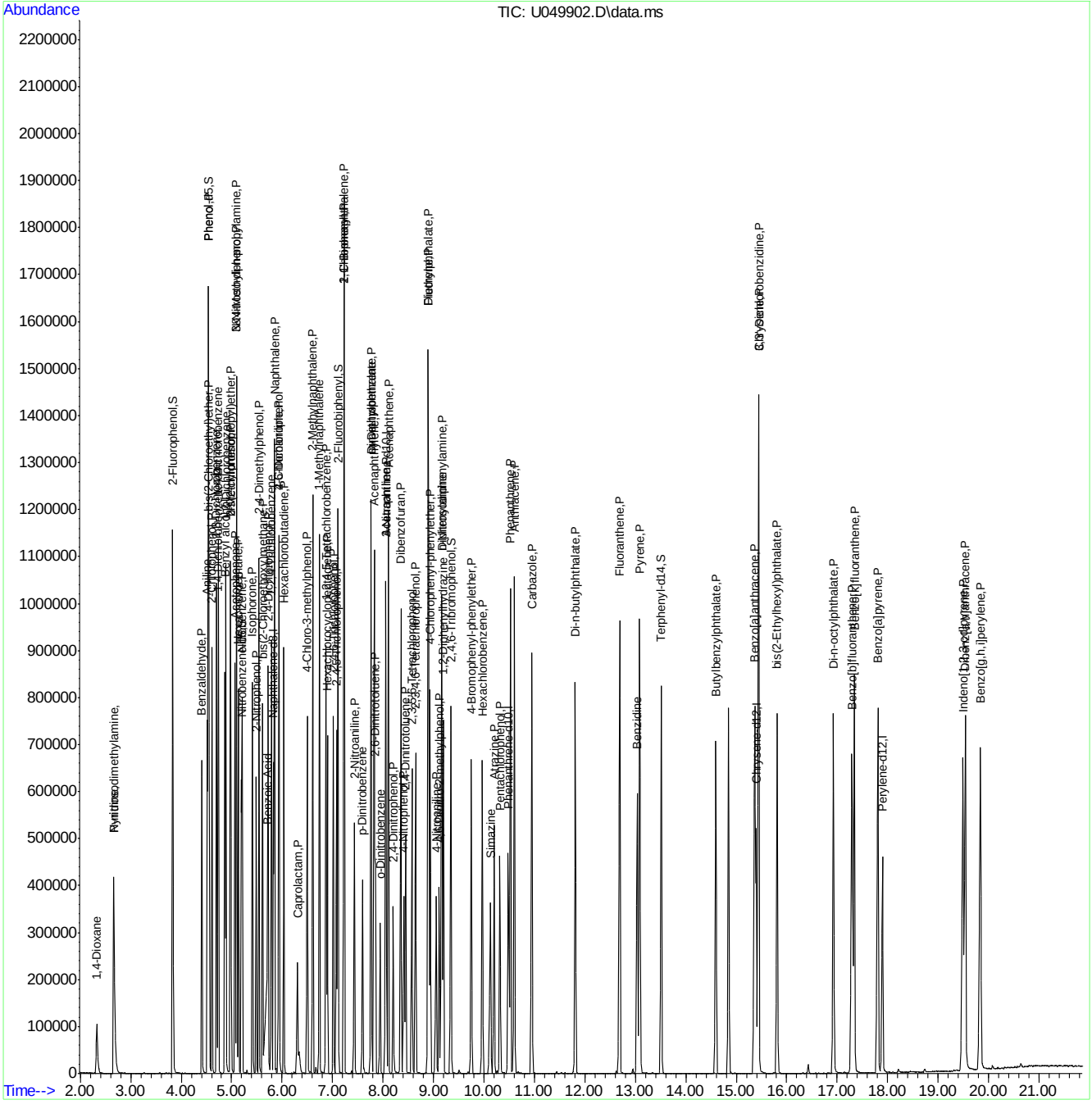
7.6.15

7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\SU2285\
Data File : U049902.D
Acq On : 30 Mar 2015 3:08 pm
Operator : nareshj
Sample : ic2285-60
Misc : op55483,su2285,30.0,,,1,1,soil
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Mar 30 15:35:11 2015
Quant Method : C:\msdchem\2\METHODS\8270da.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Mon Mar 30 15:24:28 2015
Response via : Initial Calibration



ACCUTEST LABORATORIES FA23189

Manual Integration Approval Summary

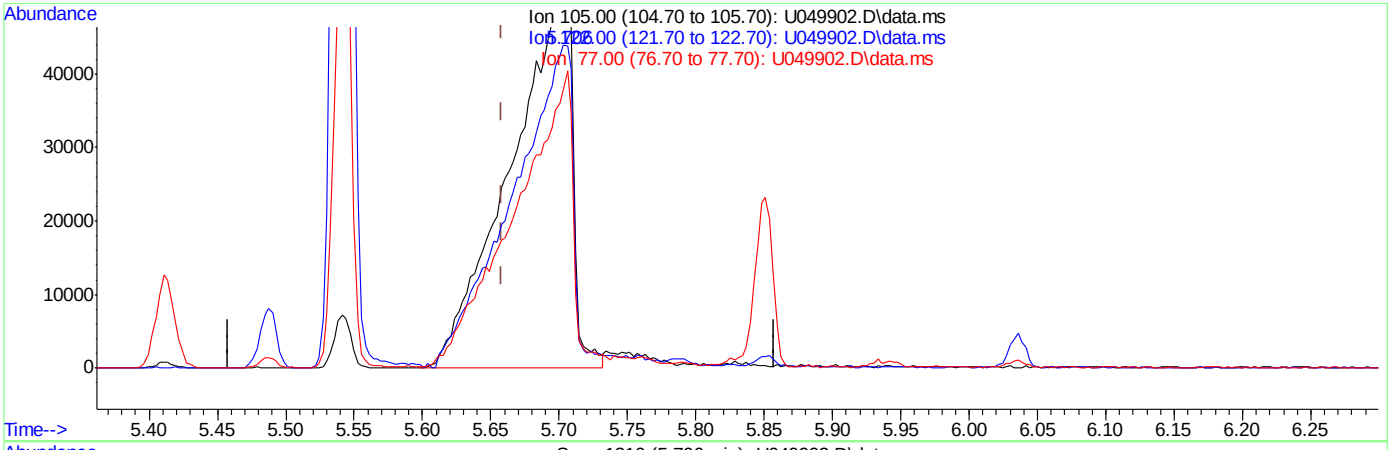
Sample Number:	SU2285-IC2285	**Method:**	SW846 8270D	
Lab FileID:	U049902.D	**Analyst approved:**	03/31/15 08:47	Naresh Jiawan
Injection Time:	03/30/15 15:08	**Supervisor approved:**	03/31/15 12:48	Mike Eger

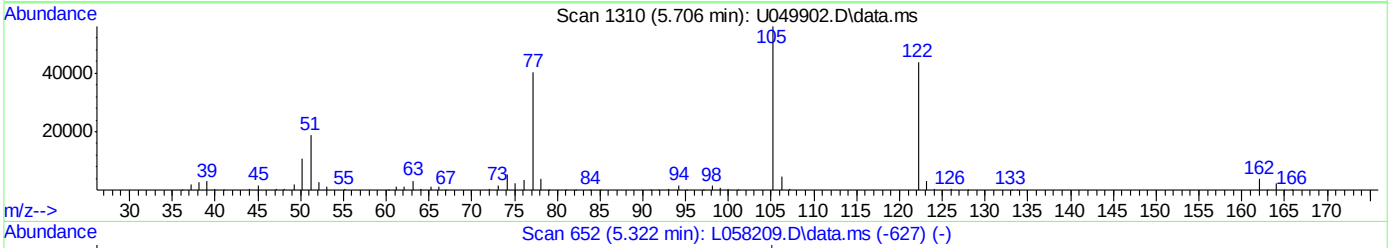
Parameter	CAS	Sig#	R.T. (min.)	Reason
Benzoic Acid	65-85-0		5.71	Split peak
Caprolactam	105-60-2		6.31	Split peak

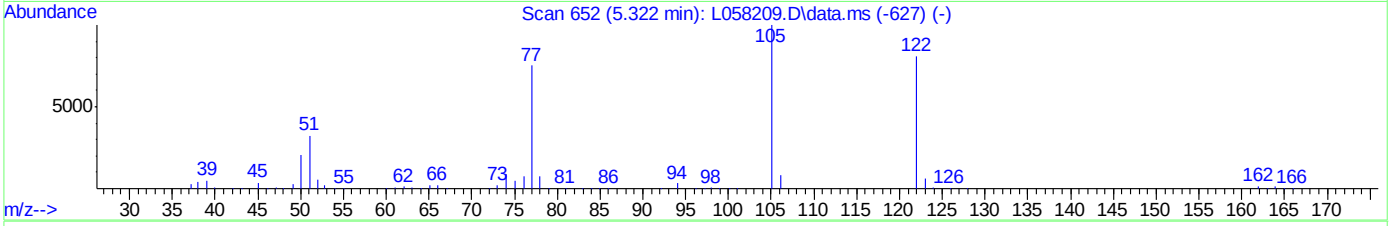
Quantitation Report (Qedit)

Data Path : C:\msdchem\2\DATA\SU2285\
Data File : U049902.D
Acq On : 30 Mar 2015 3:08 pm
Operator : nareshj
Sample : ic2285-60
Misc : op55483,su2285,30.0,,,1,1,soil
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Mar 30 15:34:18 2015
Quant Method : C:\msdchem\2\METHODS\8270da.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Mon Mar 30 15:24:28 2015
Response via : Initial Calibration







TIC: U049902.D\data.ms

(29) Benzoic Acid

5.706min (+0.048) 113.88ppm

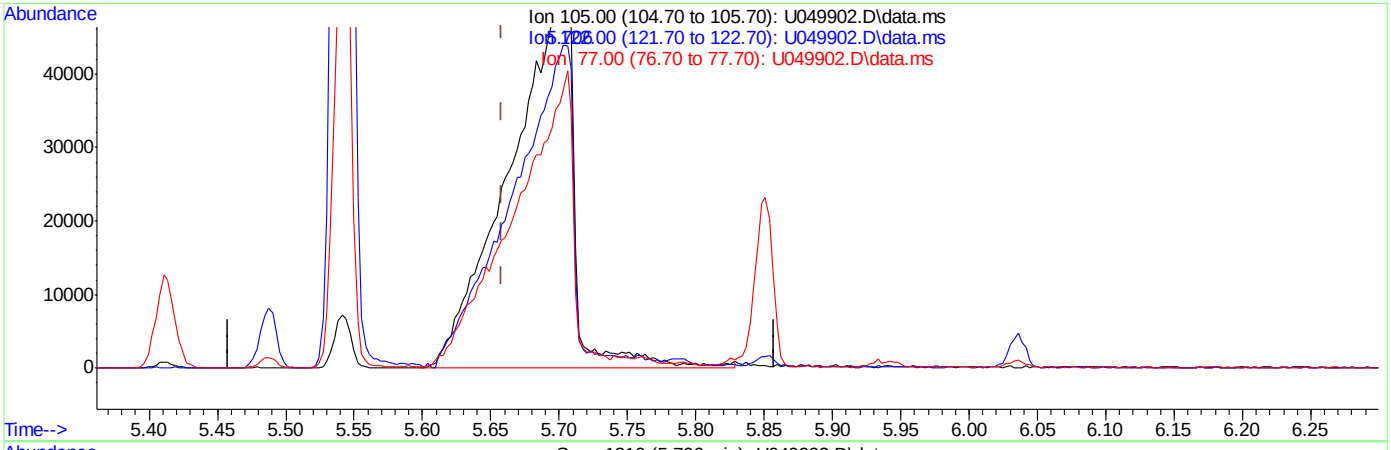
response 163689

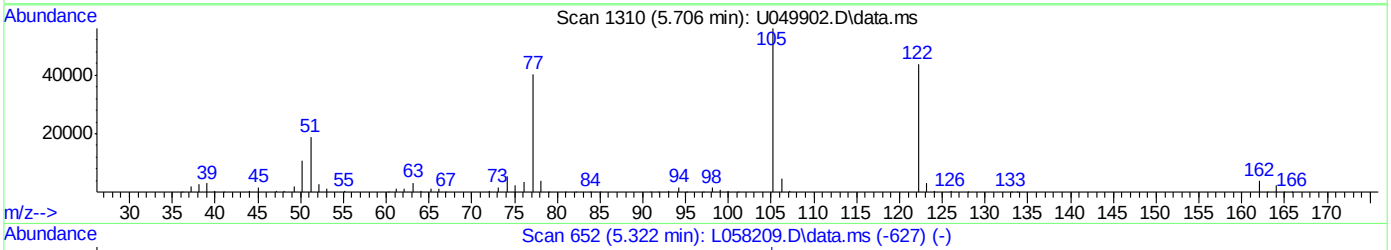
Ion	Exp%	Act%
105.00	100	100
122.00	81.20	77.65
77.00	73.70	71.58
0.00	0.00	0.00

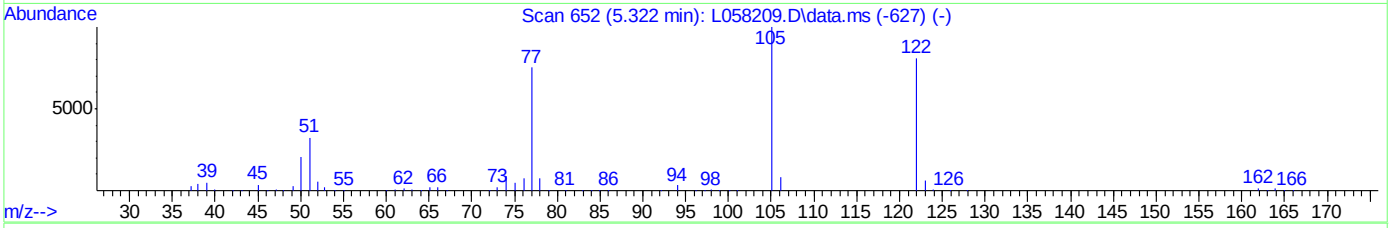
Quantitation Report (Qedit)

Data Path : C:\msdchem\2\DATA\SU2285\
Data File : U049902.D
Acq On : 30 Mar 2015 3:08 pm
Operator : nareshj
Sample : ic2285-60
Misc : op55483,su2285,30.0,,,1,1,soil
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Mar 30 15:34:18 2015
Quant Method : C:\msdchem\2\METHODS\8270da.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Mon Mar 30 15:24:28 2015
Response via : Initial Calibration







TIC: U049902.D\data.ms

(29) Benzoic Acid

5.706min (+0.048) 118.33ppm m

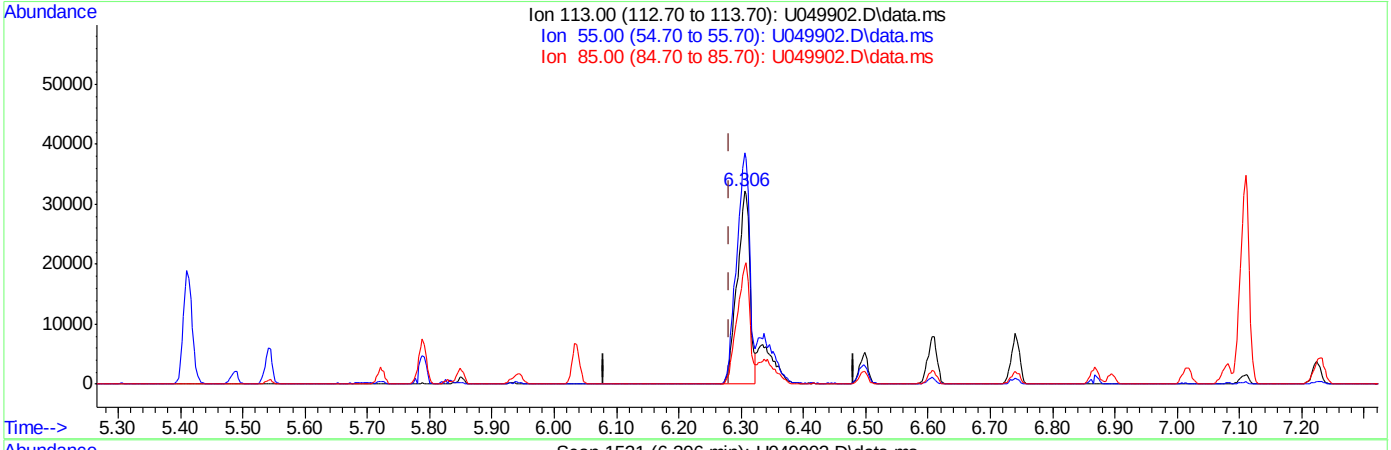
response 170096

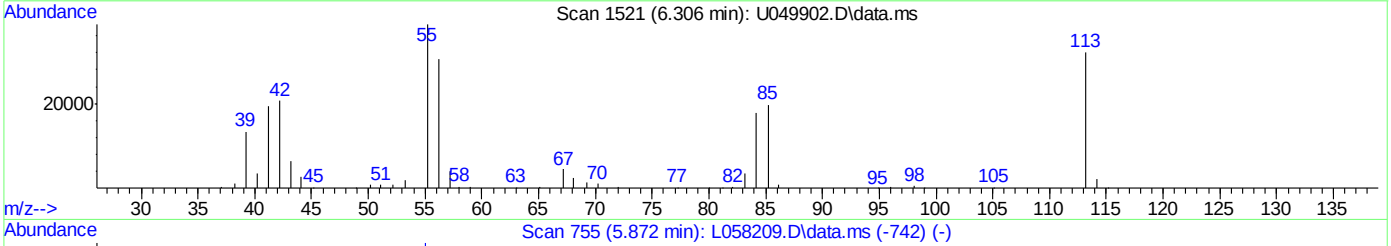
Ion	Exp%	Act%
105.00	100	100
122.00	81.20	78.32
77.00	73.70	72.16
0.00	0.00	0.00

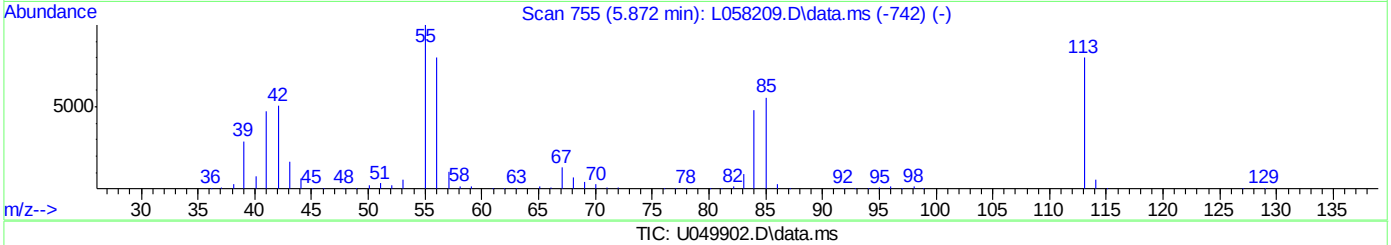
Quantitation Report (Qedit)

Data Path : C:\msdchem\2\DATA\SU2285\
Data File : U049902.D
Acq On : 30 Mar 2015 3:08 pm
Operator : nareshj
Sample : ic2285-60
Misc : op55483,su2285,30.0,,,1,1,soil
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Mar 30 15:34:18 2015
Quant Method : C:\msdchem\2\METHODS\8270da.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Mon Mar 30 15:24:28 2015
Response via : Initial Calibration







TIC: U049902.D\data.ms

(37) Caprolactam (P)

6.306min (+0.025) 64.02ppm

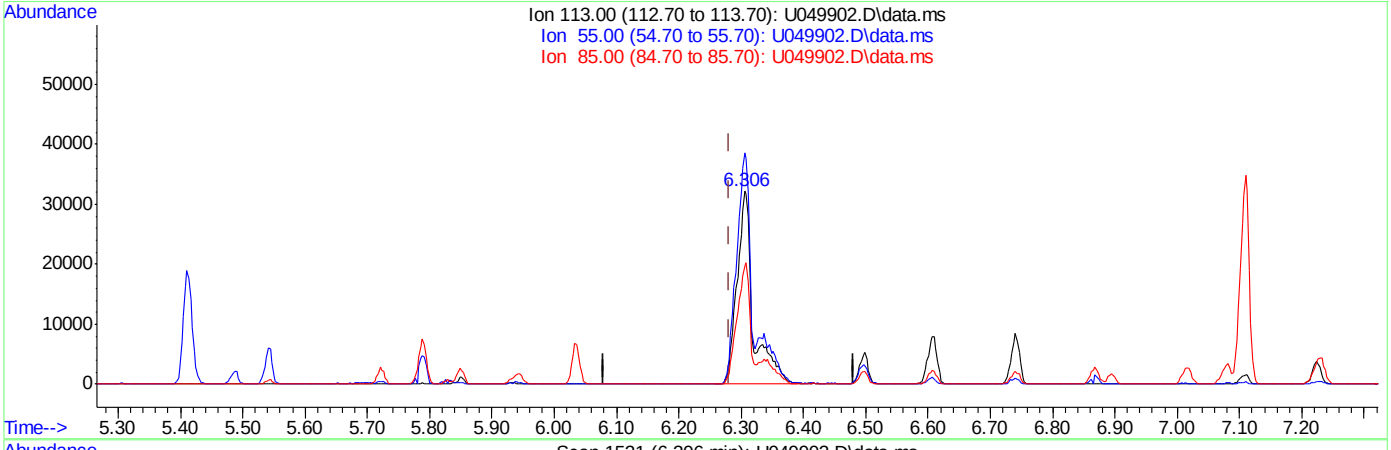
response 45434

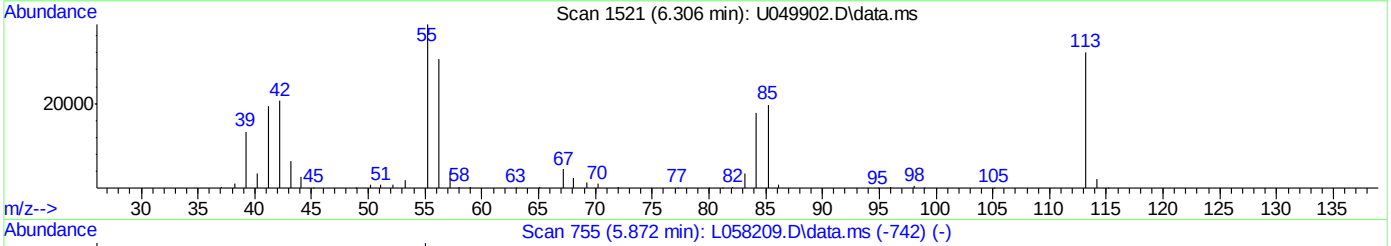
Ion	Exp%	Act%
113.00	100	100
55.00	123.70	120.79
85.00	63.90	61.26
0.00	0.00	0.00

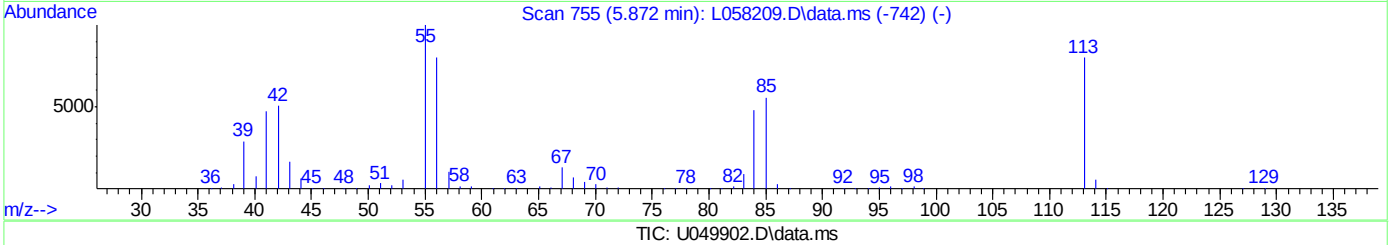
Quantitation Report (Qedit)

Data Path : C:\msdchem\2\DATA\SU2285\
Data File : U049902.D
Acq On : 30 Mar 2015 3:08 pm
Operator : nareshj
Sample : ic2285-60
Misc : op55483,su2285,30.0,,,1,1,soil
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Mar 30 15:34:18 2015
Quant Method : C:\msdchem\2\METHODS\8270da.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Mon Mar 30 15:24:28 2015
Response via : Initial Calibration







TIC: U049902.D\data.ms

(37) Caprolactam (P)

6.306min (+0.025) 81.81ppm m

response 58061

Ion	Exp%	Act%
113.00	100	100
55.00	123.70	120.17
85.00	63.90	61.42
0.00	0.00	0.00

Manual Integrations APPROVED (compounds with "m" flag)
Mike Eger
03/31/15 12:48

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\SU2285\
Data File : U049903.D
Acq On : 30 Mar 2015 3:35 pm
Operator : nareshj
Sample : ic2285-75
Misc : op55483,su2285,30.0,,,1,1,soil
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Mar 30 16:05:14 2015
Quant Method : C:\msdchem\2\METHODS\8270da.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Mon Mar 30 15:24:28 2015
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.729	152	88811	40.00	ppm	0.00
22) Naphthalene-d8	5.831	136	340531	40.00	ppm	0.00
42) Acenaphthene-d10	8.056	164	194630	40.00	ppm	0.00
68) Phenanthrene-d10	10.485	188	324636	40.00	ppm	0.00
84) Chrysene-d12	15.398	240	295756	40.00	ppm	0.00
93) Perylene-d12	17.902	264	269104	40.00	ppm	0.00

System Monitoring Compounds

7) 2-Fluorophenol	3.834	112	446568	204.64	ppm	0.02
Spiked Amount 100.000	Range 40 - 102		Recovery = 204.64%#			
9) Phenol-d5	4.541	99	476499	173.09	ppm	0.02
Spiked Amount 100.000	Range 41 - 100		Recovery = 173.09%#			
23) Nitrobenzene-d5	5.195	82	244592	99.16	ppm	0.00
Spiked Amount 50.000	Range 40 - 105		Recovery = 198.32%#			
46) 2-Fluorobiphenyl	7.110	172	495832	99.47	ppm	0.00
Spiked Amount 50.000	Range 43 - 107		Recovery = 198.94%#			
73) 2,4,6-Tribromophenol	9.352	330	142593	211.96	ppm	0.01
Spiked Amount 100.000	Range 42 - 108		Recovery = 211.96%#			
87) Terphenyl-d14	13.517	244	477611	106.71	ppm	0.00
Spiked Amount 50.000	Range 45 - 119		Recovery = 213.42%#			

Target Compounds

						Qvalue
2) 1,4-Dioxane	2.333	88	91218	103.85	ppm	94
3) N-nitrosodimethylamine	2.669	42	95111	99.97	ppm	99
4) Pyridine	2.663	79	250287	107.31	ppm	98
5) Benzaldehyde	4.410	106	159264	93.41	ppm	99
6) Aniline	4.521	93	364284	100.35	ppm	83
8) bis(2-Chloroethyl)ether	4.561	93	222553	100.10	ppm	98
10) Phenol	4.550	94	289512	93.48	ppm	94
11) 2-Chlorophenol	4.612	128	243994	99.96	ppm	99
12) 1,3-Dichlorobenzene	4.700	146	261790	101.22	ppm	99
13) 1,4-Dichlorobenzene	4.740	146	262619	99.95	ppm	98
14) 1,2-Dichlorobenzene	4.885	146	249174	99.97	ppm	99
15) Benzyl alcohol	4.868	108	165899	104.37	ppm	99
16) bis(2-chloroisopropyl)...	4.973	45	277204	101.63	ppm	82
17) 2-Methylphenol	4.987	108	218106	100.59	ppm	93
18) Acetophenone	5.070	105	318277	99.06	ppm	99
19) Hexachloroethane	5.132	117	99574	101.95	ppm	96
20) N-Nitroso-di-n-propyla...	5.098	70	148649	91.97	ppm	97
21) 3&4-Methylphenol	5.101	108	230841	100.83	ppm	98
24) Nitrobenzene	5.212	77	240468	99.86	ppm	99
25) Isophorone	5.414	82	447566	100.40	ppm	100
26) 2-Nitrophenol	5.490	139	137492	102.26	ppm	94
27) 2,4-Dimethylphenol	5.544	107	228741	99.29	ppm	97
28) bis(2-Chloroethoxy)met...	5.615	93	261600	99.97	ppm	99
29) Benzoic Acid	5.712	105	201712m	125.73	ppm	
30) 2,4-Dichlorophenol	5.723	162	195644	100.16	ppm	97
31) 1,2,4-Trichlorobenzene	5.791	180	208935	100.90	ppm	99
33) Naphthalene	5.851	128	680335	98.29	ppm	99
34) 4-Chloroaniline	5.936	127	305350	97.44	ppm	100

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\SU2285\
Data File : U049903.D
Acq On : 30 Mar 2015 3:35 pm
Operator : nareshj
Sample : ic2285-75
Misc : op55483,su2285,30.0,,,1,1,soil
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Mar 30 16:05:14 2015
Quant Method : C:\msdchem\2\METHODS\8270da.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Mon Mar 30 15:24:28 2015
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
35) 2,6-Dichlorophenol	5.945	162	195749	99.22	ppm	97
36) Hexachlorobutadiene	6.036	225	113327	103.01	ppm	98
37) Caprolactam	6.326	113	82687m	104.38	ppm	
38) 4-Chloro-3-methylphenol	6.502	107	199698	99.87	ppm	99
39) 2-Methylnaphthalene	6.610	142	461343	97.85	ppm	97
40) 1-Methylnaphthalene	6.743	142	409878	97.79	ppm	97
41) 1,2,4,5-Tetrachloroben...	6.871	216	212028	99.56	ppm	97
43) Hexachlorocyclopentadiene	6.897	237	146961	120.38	ppm	99
44) 2,4,6-Trichlorophenol	7.019	196	143766	104.94	ppm	100
45) 2,4,5-Trichlorophenol	7.081	196	152465	104.56	ppm	98
47) 1,1'-Biphenyl	7.226	154	535402	97.46	ppm	99
48) 2-Chloronaphthalene	7.235	162	416596	100.76	ppm	97
49) 2-Nitroaniline	7.437	65	128123	102.49	ppm	97
50) p-Dinitrobenzene	7.599	75	93126	104.26	ppm	96
51) Acenaphthylene	7.829	152	692726	99.23	ppm	97
52) Dimethylphthalate	7.769	163	477878	99.44	ppm	99
53) m-Dinitrobenzene	7.772	168	87950	100.76	ppm	91
54) 2,6-Dinitrotoluene	7.851	165	119576	102.23	ppm	97
55) o-Dinitrobenzene	7.951	50	61949	100.24	ppm	95
56) Acenaphthene	8.110	153	427164	99.51	ppm	97
57) 3-Nitroaniline	8.062	138	133829	99.57	ppm	96
58) 2,4-Dinitrophenol	8.207	184	87157	125.94	ppm	95
59) Dibenzofuran	8.354	168	608008	99.48	ppm	99
60) 2,4-Dinitrotoluene	8.454	165	160704	102.58	ppm	98
61) 4-Nitrophenol	8.417	109	61242	108.97	ppm	98
62) 2,3,5,6-Tetrachlorophenol	8.573	232	129068	105.06	ppm	99
63) 2,3,4,6-Tetrachlorophenol	8.647	232	125374	104.52	ppm	98
64) Fluorene	8.906	166	477561	97.32	ppm	100
65) 4-Chlorophenyl-phenyle...	8.940	204	235272	102.31	ppm	98
66) Diethylphthalate	8.897	149	456264	79.61	ppm	99
67) 4-Nitroaniline	9.065	138	135207	100.62	ppm	98
69) 4,6-Dinitro-2-methylph...	9.122	198	104884	117.40	ppm	55
70) n-Nitrosodiphenylamine	9.167	169	416970	121.49	ppm	98
71) Diphenylamine	9.167	169	416970	101.25	ppm	98
72) 1,2-Diphenylhydrazine	9.198	77	511749	113.19	ppm	99
74) 4-Bromophenyl-phenylether	9.755	248	132216	104.74	ppm	95
75) Hexachlorobenzene	9.971	284	147874	103.00	ppm	98
76) Simazine	10.144	201	73677	215.51	ppm	97
77) Atrazine	10.216	200	131244	99.77	ppm	97
78) Pentachlorophenol	10.321	266	95232	111.26	ppm	95
79) Phenanthrene	10.531	178	678098	99.07	ppm	99
80) Anthracene	10.610	178	680181	100.16	ppm	97
81) Carbazole	10.954	167	637775	96.45	ppm	99
82) Di-n-butylphthalate	11.815	149	755186	101.06	ppm	100
83) Fluoranthene	12.696	202	684086	95.83	ppm	99
85) Benzidine	13.040	184	383885	103.88	ppm	99
86) Pyrene	13.091	202	692535	106.23	ppm	99
88) Butylbenzylphthalate	14.600	149	317437	110.36	ppm	97
89) 3,3'-Dichlorobenzidine	15.447	252	229374	104.03	ppm	96
90) Benzo[a]anthracene	15.370	228	620722	103.01	ppm	99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\SU2285\
Data File : U049903.D
Acq On : 30 Mar 2015 3:35 pm
Operator : nareshj
Sample : ic2285-75
Misc : op55483,su2285,30.0,,,1,1,soil
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Mar 30 16:05:14 2015
Quant Method : C:\msdchem\2\METHODS\8270da.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Mon Mar 30 15:24:28 2015
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
91) Chrysene	15.452	228	575646	101.63 ppm	98
92) bis(2-Ethylhexyl)phtha...	15.813	149	434234	109.44 ppm	98
94) Di-n-octylphthalate	16.927	149	734061	114.82 ppm	98
95) Benzo[b]fluoranthene	17.299	252	599806	102.74 ppm	99
96) Benzo[k]fluoranthene	17.348	252	559999	102.31 ppm	98
97) Benzo[a]pyrene	17.814	252	582783	103.38 ppm	99
98) Indeno[1,2,3-cd]pyrene	19.501	276	547325	101.61 ppm	99
99) Dibenz[a,h]anthracene	19.547	278	549353	103.32 ppm	98
100) Benzo[g,h,i]perylene	19.848	276	559451	98.80 ppm	99

(#) = qualifier out of range (m) = manual integration (+) = signals summed

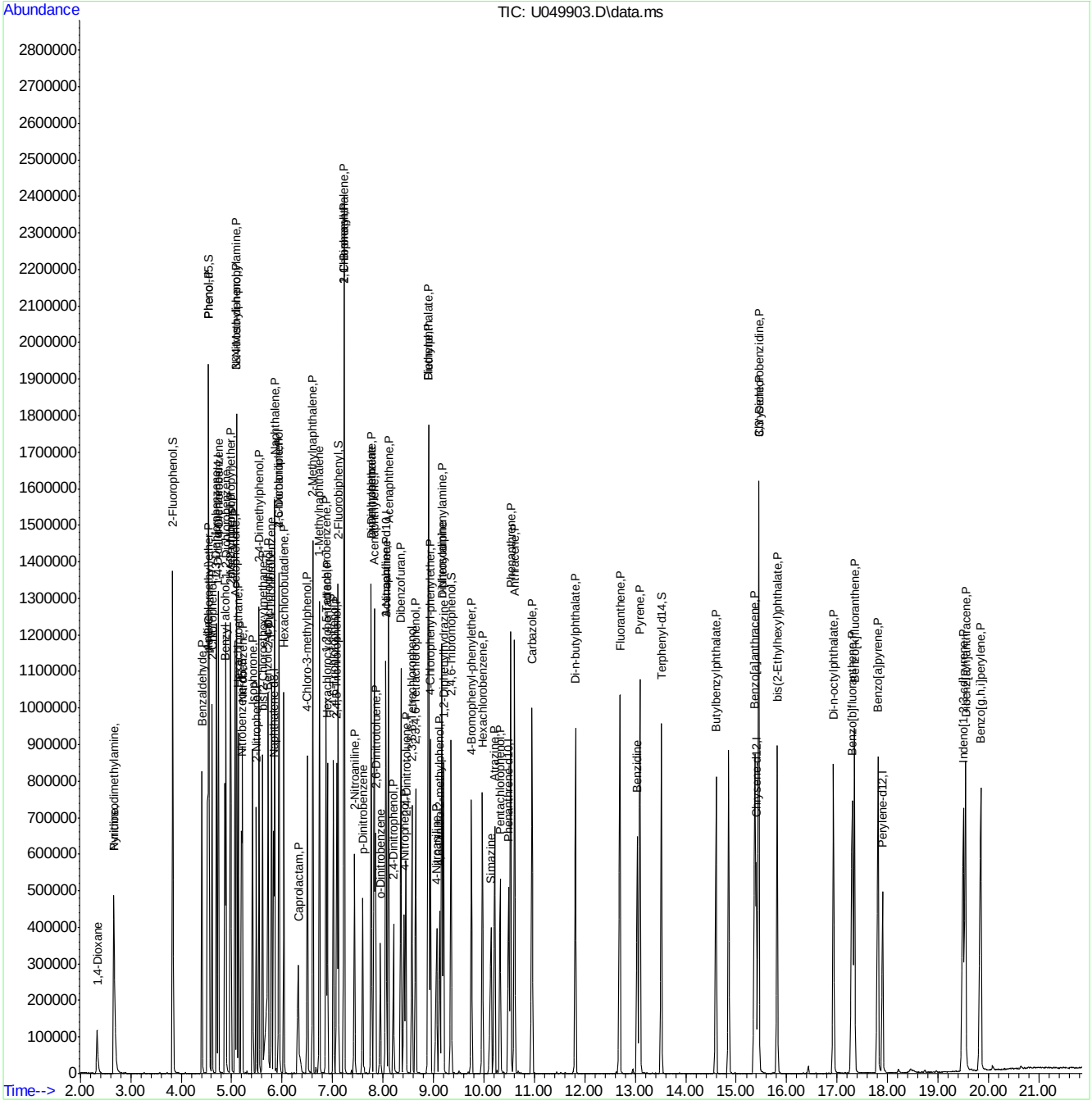
7.6.16

7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\SU2285\
Data File : U049903.D
Acq On : 30 Mar 2015 3:35 pm
Operator : nareshj
Sample : ic2285-75
Misc : op55483,su2285,30.0,,,1,1,soil
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Mar 30 16:05:14 2015
Quant Method : C:\msdchem\2\METHODS\8270da.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Mon Mar 30 15:24:28 2015
Response via : Initial Calibration



Manual Integration Approval Summary

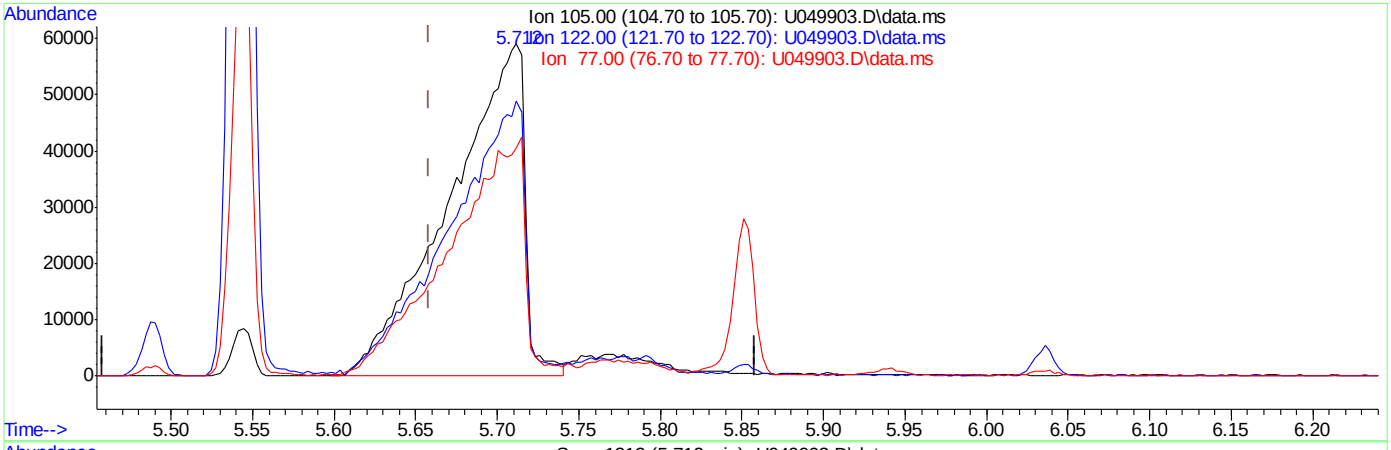
Sample Number:	SU2285-IC2285	**Method:**	SW846 8270D	
Lab FileID:	U049903.D	**Analyst approved:**	03/31/15 08:47	Naresh Jiawan
Injection Time:	03/30/15 15:35	**Supervisor approved:**	03/31/15 12:48	Mike Eger

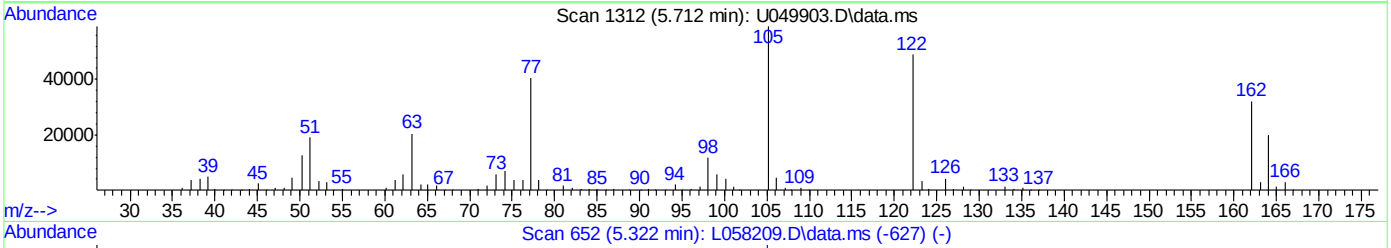
Parameter	CAS	Sig#	R.T. (min.)	Reason
Benzoic Acid	65-85-0		5.71	Split peak
Caprolactam	105-60-2		6.33	Split peak

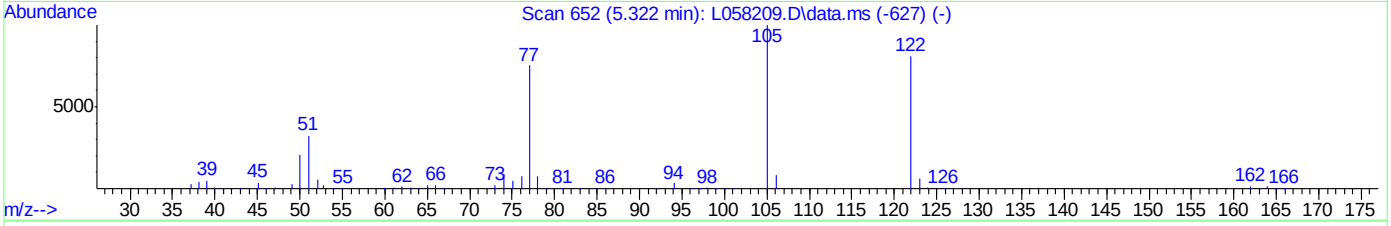
Quantitation Report (Qedit)

Data Path : C:\msdchem\2\DATA\SU2285\
Data File : U049903.D
Acq On : 30 Mar 2015 3:35 pm
Operator : nareshj
Sample : ic2285-75
Misc : op55483,su2285,30.0,,,1,1,soil
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Mar 30 16:04:28 2015
Quant Method : C:\msdchem\2\METHODS\8270da.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Mon Mar 30 15:24:28 2015
Response via : Initial Calibration







TIC: U049903.D\data.ms

(29) Benzoic Acid

5.712min (+0.054) 117.23ppm

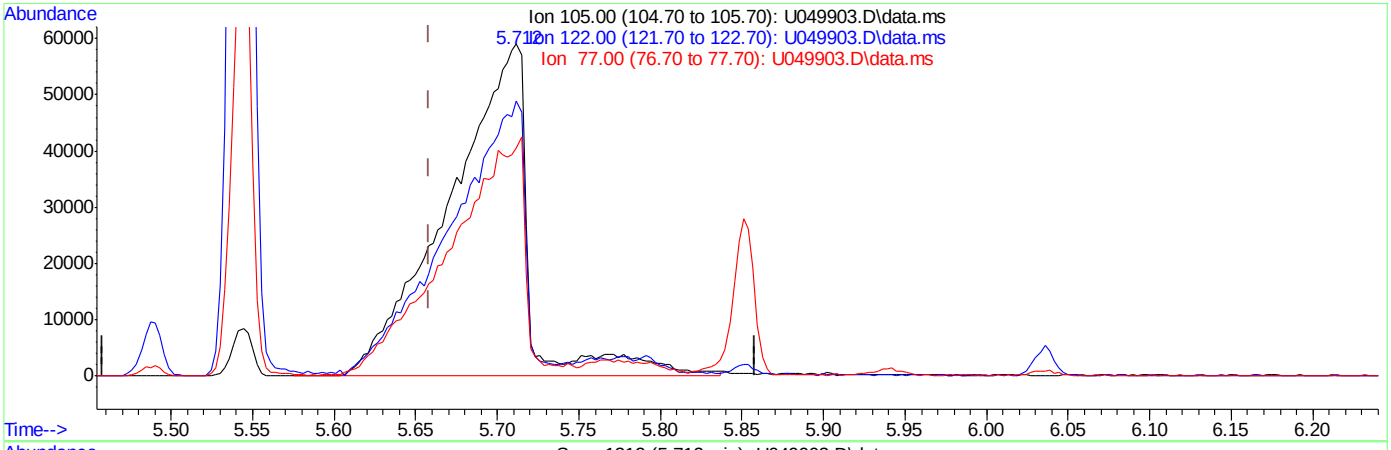
response 188081

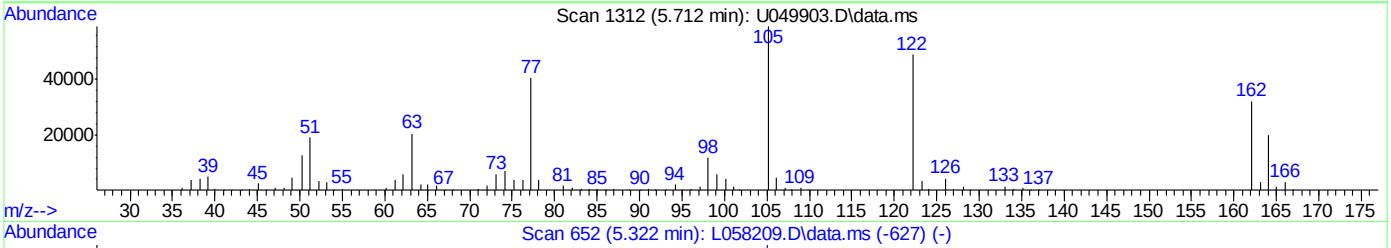
Ion	Exp%	Act%
105.00	100	100
122.00	81.20	81.89
77.00	73.70	68.11
0.00	0.00	0.00

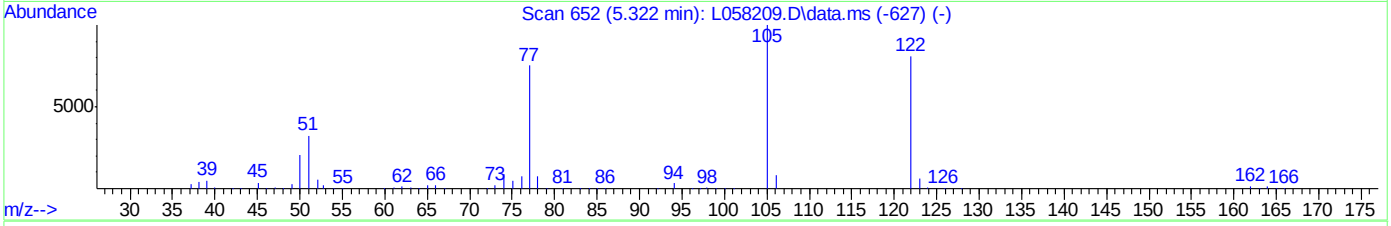
Quantitation Report (Qedit)

Data Path : C:\msdchem\2\DATA\SU2285\
Data File : U049903.D
Acq On : 30 Mar 2015 3:35 pm
Operator : nareshj
Sample : ic2285-75
Misc : op55483,su2285,30.0,,,1,1,soil
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Mar 30 16:04:28 2015
Quant Method : C:\msdchem\2\METHODS\8270da.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Mon Mar 30 15:24:28 2015
Response via : Initial Calibration







TIC: U049903.D\data.ms

(29) Benzoic Acid

5.712min (+0.054) 125.73ppm m

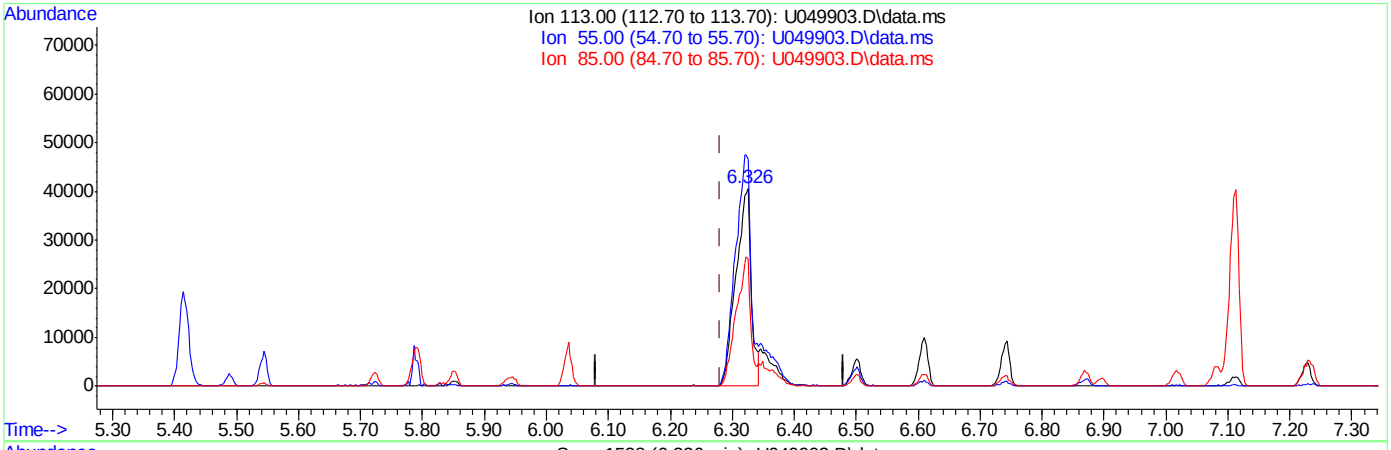
response 201712

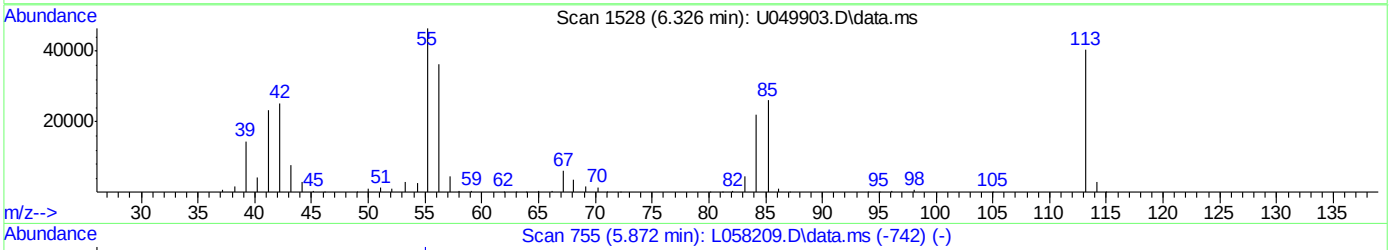
Ion	Exp%	Act%
105.00	100	100
122.00	81.20	82.83
77.00	73.70	68.41
0.00	0.00	0.00

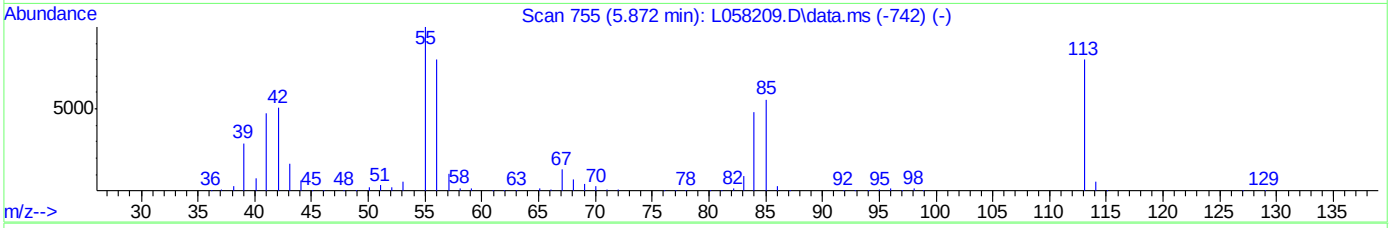
Quantitation Report (Qedit)

Data Path : C:\msdchem\2\DATA\SU2285\
Data File : U049903.D
Acq On : 30 Mar 2015 3:35 pm
Operator : nareshj
Sample : ic2285-75
Misc : op55483,su2285,30.0,,,1,1,soil
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Mar 30 16:04:28 2015
Quant Method : C:\msdchem\2\METHODS\8270da.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Mon Mar 30 15:24:28 2015
Response via : Initial Calibration







TIC: U049903.D\data.ms

(37) Caprolactam (P)

6.326min (+0.045) 88.73ppm

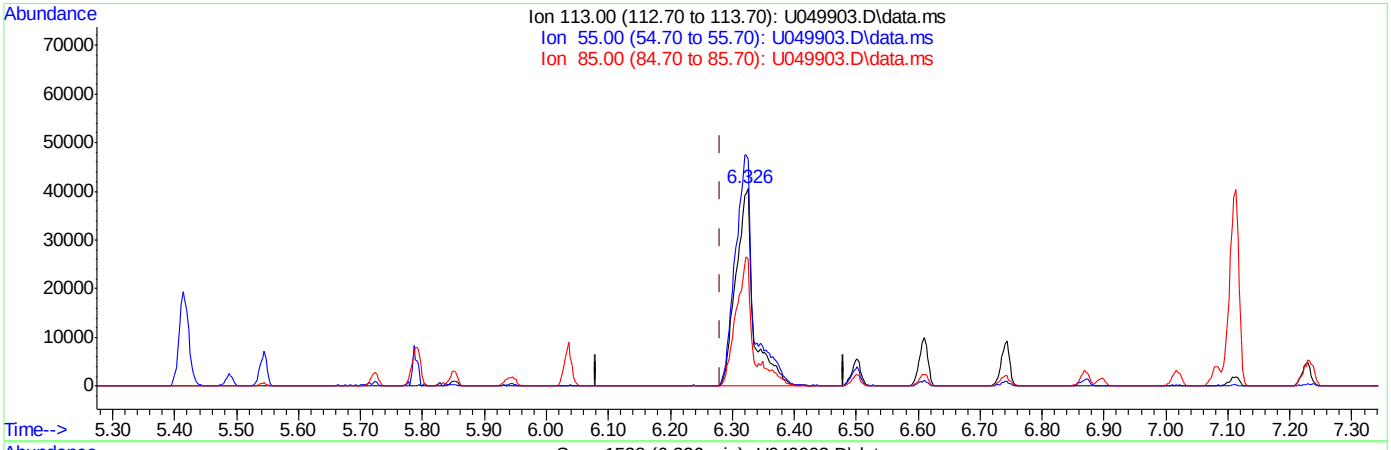
response 70287

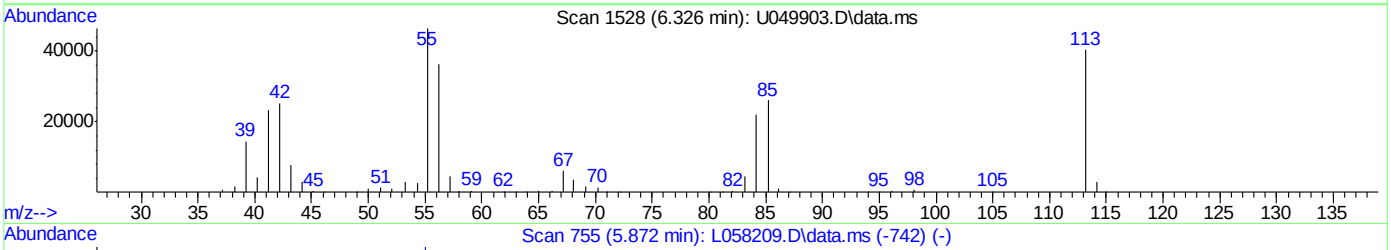
Ion	Exp%	Act%
113.00	100	100
55.00	123.70	114.60
85.00	63.90	64.09
0.00	0.00	0.00

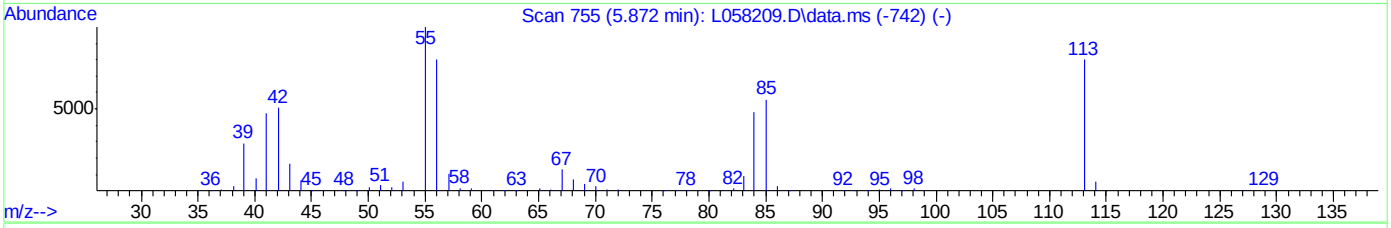
Quantitation Report (Qedit)

Data Path : C:\msdchem\2\DATA\SU2285\
Data File : U049903.D
Acq On : 30 Mar 2015 3:35 pm
Operator : nareshj
Sample : ic2285-75
Misc : op55483,su2285,30.0,,,1,1,soil
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Mar 30 16:04:28 2015
Quant Method : C:\msdchem\2\METHODS\8270da.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Mon Mar 30 15:24:28 2015
Response via : Initial Calibration







TIC: U049903.D\data.ms

(37) Caprolactam (P)

6.326min (+0.045) 104.38ppm m

response 82687

Ion	Exp%	Act%
113.00	100	100
55.00	123.70	114.55
85.00	63.90	64.32
0.00	0.00	0.00

U049904.D

Manual Integrations APPROVED (compounds with "m" flag)

Mike Eger 03/31/15 12:48

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\SU2285\
Data File : U049904.D
Acq On : 30 Mar 2015 4:02 pm
Operator : nareshj
Sample : ic2285-100
Misc : op55483,su2285,30.0,,,1,1,soil
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Mar 30 16:28:48 2015
Quant Method : C:\msdchem\2\METHODS\8270da.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Mon Mar 30 15:24:28 2015
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.726	152	81526	40.00	ppm	0.00
22) Naphthalene-d8	5.831	136	305576	40.00	ppm	0.00
42) Acenaphthene-d10	8.059	164	174880	40.00	ppm	0.00
68) Phenanthrene-d10	10.485	188	291632	40.00	ppm	0.00
84) Chrysene-d12	15.398	240	270285	40.00	ppm	0.00
93) Perylene-d12	17.904	264	257736	40.00	ppm	0.00

System Monitoring Compounds						
7) 2-Fluorophenol	3.831	112	538555	268.84	ppm	0.02
Spiked Amount 100.000	Range 40 - 102		Recovery = 268.84%#			
9) Phenol-d5	4.541	99	563616	223.03	ppm	0.02
Spiked Amount 100.000	Range 41 - 100		Recovery = 223.03%#			
23) Nitrobenzene-d5	5.198	82	290561	131.27	ppm	0.00
Spiked Amount 50.000	Range 40 - 105		Recovery = 262.54%#			
46) 2-Fluorobiphenyl	7.113	172	582326	130.02	ppm	0.00
Spiked Amount 50.000	Range 43 - 107		Recovery = 260.04%#			
73) 2,4,6-Tribromophenol	9.355	330	171884	284.41	ppm	0.01
Spiked Amount 100.000	Range 42 - 108		Recovery = 284.41%#			
87) Terphenyl-d14	13.520	244	571506	139.72	ppm	0.00
Spiked Amount 50.000	Range 45 - 119		Recovery = 279.44%#			

Target Compounds						Qvalue
2) 1,4-Dioxane	2.316	88	112823	139.92	ppm	96
3) N-nitrosodimethylamine	2.660	42	114076	130.61	ppm	95
4) Pyridine	2.646	79	305447	142.66	ppm	98
5) Benzaldehyde	4.408	106	155026	99.05	ppm	99
6) Aniline	4.521	93	433172	129.99	ppm	85
8) bis(2-Chloroethyl)ether	4.561	93	266234	130.45	ppm	96
10) Phenol	4.550	94	341725	120.20	ppm	94
11) 2-Chlorophenol	4.612	128	293759	131.10	ppm	99
12) 1,3-Dichlorobenzene	4.700	146	311349	131.14	ppm	99
13) 1,4-Dichlorobenzene	4.740	146	316979	131.42	ppm	98
14) 1,2-Dichlorobenzene	4.885	146	300480	131.32	ppm	98
15) Benzyl alcohol	4.868	108	193614	132.69	ppm	99
16) bis(2-chloroisopropyl)...	4.973	45	323041	129.02	ppm	82
17) 2-Methylphenol	4.987	108	261424	131.34	ppm	84
18) Acetophenone	5.070	105	380979	129.17	ppm	99
19) Hexachloroethane	5.132	117	119149	132.89	ppm	95
20) N-Nitroso-di-n-propyla...	5.101	70	178165	120.08	ppm	97
21) 3&4-Methylphenol	5.101	108	273274	130.03	ppm	99
24) Nitrobenzene	5.215	77	284216	131.53	ppm	99
25) Isophorone	5.416	82	528027	132.00	ppm	100
26) 2-Nitrophenol	5.490	139	164630	136.45	ppm	97
27) 2,4-Dimethylphenol	5.544	107	270903	131.05	ppm	98
28) bis(2-Chloroethoxy)met...	5.615	93	309399	131.76	ppm	98
29) Benzoic Acid	5.723	105	243689m	169.27	ppm	
30) 2,4-Dichlorophenol	5.726	162	232052	132.38	ppm	98
31) 1,2,4-Trichlorobenzene	5.791	180	249753	134.41	ppm	98
33) Naphthalene	5.854	128	801886	129.10	ppm	98
34) 4-Chloroaniline	5.936	127	360462	128.18	ppm	99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\SU2285\
Data File : U049904.D
Acq On : 30 Mar 2015 4:02 pm
Operator : nareshj
Sample : ic2285-100
Misc : op55483,su2285,30.0,,,1,1,soil
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Mar 30 16:28:48 2015
Quant Method : C:\msdchem\2\METHODS\8270da.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Mon Mar 30 15:24:28 2015
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units		Dev(Min)
35) 2,6-Dichlorophenol	5.948	162	233110	131.67 ppm		99
36) Hexachlorobutadiene	6.039	225	135481	137.23 ppm		96
37) Caprolactam	6.337	113	96592m	135.89 ppm		
38) 4-Chloro-3-methylphenol	6.505	107	238720	133.05 ppm		99
39) 2-Methylnaphthalene	6.610	142	541414	127.97 ppm		97
40) 1-Methylnaphthalene	6.743	142	478081	127.11 ppm		96
41) 1,2,4,5-Tetrachloroben...	6.871	216	249496	130.56 ppm		99
43) Hexachlorocyclopentadiene	6.897	237	175727	160.20 ppm		98
44) 2,4,6-Trichlorophenol	7.022	196	171824	139.59 ppm		99
45) 2,4,5-Trichlorophenol	7.084	196	179162	136.75 ppm		97
47) 1,1'-Biphenyl	7.229	154	632054	128.05 ppm		99
48) 2-Chloronaphthalene	7.238	162	486115	130.85 ppm		97
49) 2-Nitroaniline	7.439	65	151152	134.56 ppm		98
50) p-Dinitrobenzene	7.601	75	111763	139.25 ppm		95
51) Acenaphthylene	7.832	152	822640	131.14 ppm		99
52) Dimethylphthalate	7.772	163	562514	130.27 ppm		98
53) m-Dinitrobenzene	7.780	168	105090	133.99 ppm	#	72
54) 2,6-Dinitrotoluene	7.854	165	141146	134.30 ppm		98
55) o-Dinitrobenzene	7.957	50	73552	132.46 ppm		93
56) Acenaphthene	8.113	153	503037	130.42 ppm		98
57) 3-Nitroaniline	8.067	138	159273	131.89 ppm		94
58) 2,4-Dinitrophenol	8.212	184	104466	168.00 ppm		97
59) Dibenzofuran	8.357	168	718505	130.84 ppm		99
60) 2,4-Dinitrotoluene	8.460	165	190996	135.68 ppm		96
61) 4-Nitrophenol	8.423	109	72866	144.29 ppm		98
62) 2,3,5,6-Tetrachlorophenol	8.576	232	150734	136.56 ppm		96
63) 2,3,4,6-Tetrachlorophenol	8.650	232	147139	136.51 ppm		99
64) Fluorene	8.908	166	562311	127.53 ppm		100
65) 4-Chlorophenyl-phenyle...	8.940	204	276698	133.92 ppm		98
66) Diethylphthalate	8.903	149	535416	103.97 ppm		99
67) 4-Nitroaniline	9.076	138	162154	134.30 ppm		99
69) 4,6-Dinitro-2-methylph...	9.130	198	124834	155.55 ppm		96
70) n-Nitrosodiphenylamine	9.173	169	493279	160.00 ppm		100
71) Diphenylamine	9.173	169	493279	133.33 ppm		100
72) 1,2-Diphenylhydrazine	9.204	77	606066	149.22 ppm		99
74) 4-Bromophenyl-phenylether	9.755	248	155872	137.46 ppm		98
75) Hexachlorobenzene	9.974	284	172664	133.87 ppm		99
76) Simazine	10.150	201	87734	285.67 ppm		93
77) Atrazine	10.224	200	158211	133.88 ppm		97
78) Pentachlorophenol	10.323	266	115588	150.32 ppm		99
79) Phenanthrene	10.534	178	805172	130.94 ppm		99
80) Anthracene	10.613	178	801057	131.31 ppm		100
81) Carbazole	10.957	167	756394	127.33 ppm		99
82) Di-n-butylphthalate	11.815	149	895485	133.40 ppm		99
83) Fluoranthene	12.696	202	816462	127.31 ppm		99
85) Benzidine	13.040	184	403326	119.42 ppm		98
86) Pyrene	13.094	202	824953	138.47 ppm		99
88) Butylbenzylphthalate	14.603	149	380449	144.73 ppm		98
89) 3,3'-Dichlorobenzidine	15.449	252	267640	132.82 ppm		97
90) Benzo[a]anthracene	15.373	228	751938	136.54 ppm		99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\SU2285\
Data File : U049904.D
Acq On : 30 Mar 2015 4:02 pm
Operator : nareshj
Sample : ic2285-100
Misc : op55483,su2285,30.0,,,1,1,soil
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Mar 30 16:28:48 2015
Quant Method : C:\msdchem\2\METHODS\8270da.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Mon Mar 30 15:24:28 2015
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
91) Chrysene	15.455	228	700915	135.41 ppm	99
92) bis(2-Ethylhexyl)phtha...	15.813	149	521641	143.86 ppm	98
94) Di-n-octylphthalate	16.930	149	889950	145.35 ppm	98
95) Benzo[b]fluoranthene	17.305	252	773974	138.43 ppm	98
96) Benzo[k]fluoranthene	17.356	252	672849	128.34 ppm	97
97) Benzo[a]pyrene	17.822	252	734773	136.08 ppm	99
98) Indeno[1,2,3-cd]pyrene	19.510	276	730047	141.50 ppm	99
99) Dibenz[a,h]anthracene	19.555	278	727025	142.77 ppm	97
100) Benzo[g,h,i]perylene	19.859	276	746859	137.72 ppm	99

(#) = qualifier out of range (m) = manual integration (+) = signals summed

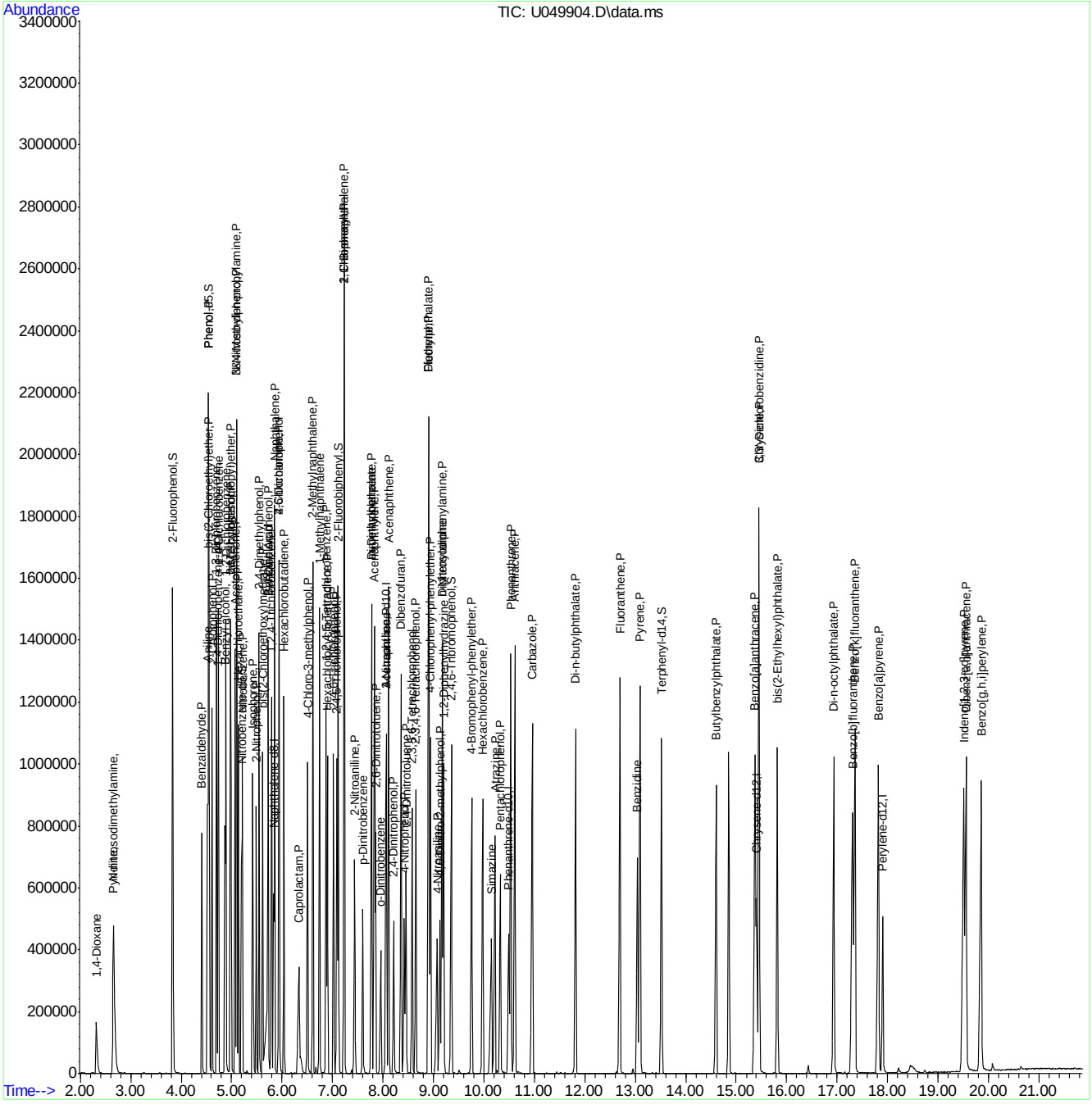
7.6.17

7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\SU2285\
Data File : U049904.D
Acq On : 30 Mar 2015 4:02 pm
Operator : nareshj
Sample : ic2285-100
Misc : op55483,su2285,30.0,,,1,1,soil
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Mar 30 16:28:48 2015
Quant Method : C:\msdchem\2\METHODS\8270da.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Mon Mar 30 15:24:28 2015
Response via : Initial Calibration



Manual Integration Approval Summary

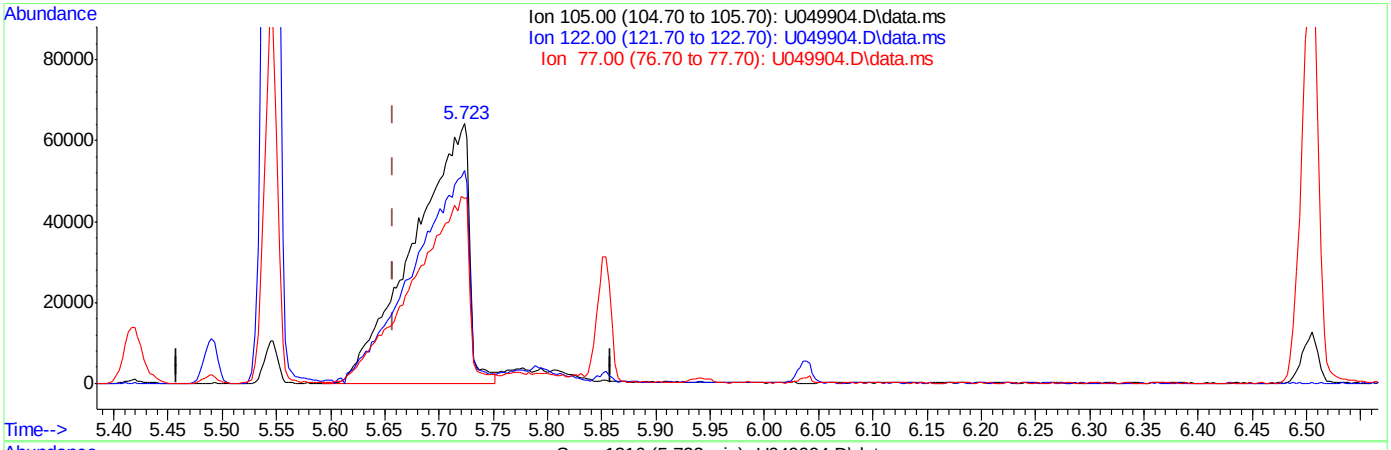
Sample Number:	SU2285-IC2285	**Method:**	SW846 8270D
Lab FileID:	U049904.D	**Analyst approved:**	03/31/15 08:47 Naresh Jiawan
Injection Time:	03/30/15 16:02	**Supervisor approved:**	03/31/15 12:48 Mike Eger

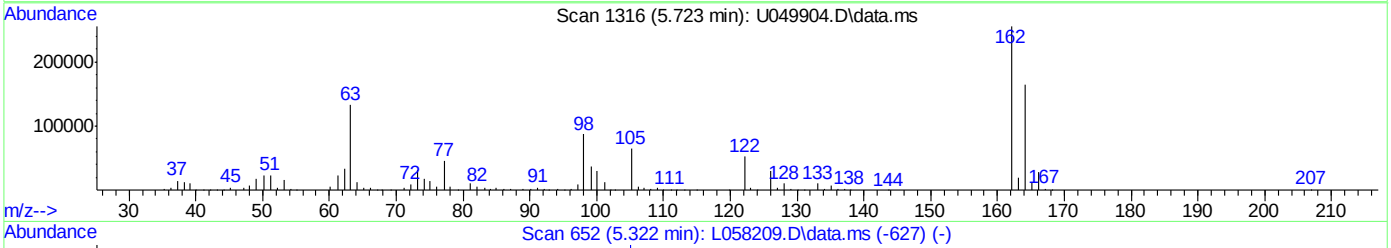
Parameter	CAS	Sig#	R.T. (min.)	Reason
Benzoic Acid	65-85-0		5.72	Split peak
Caprolactam	105-60-2		6.34	Split peak

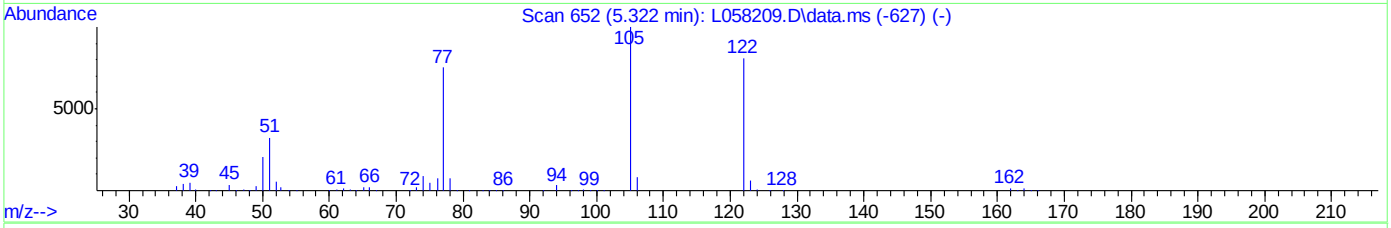
Quantitation Report (Qedit)

Data Path : C:\msdchem\2\DATA\SU2285\
Data File : U049904.D
Acq On : 30 Mar 2015 4:02 pm
Operator : nareshj
Sample : ic2285-100
Misc : op55483,su2285,30.0,,,1,1,soil
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Mar 30 16:28:16 2015
Quant Method : C:\msdchem\2\METHODS\8270da.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Mon Mar 30 15:24:28 2015
Response via : Initial Calibration







TIC: U049904.D\data.ms

(29) Benzoic Acid

5.723min (+0.065) 158.79ppm

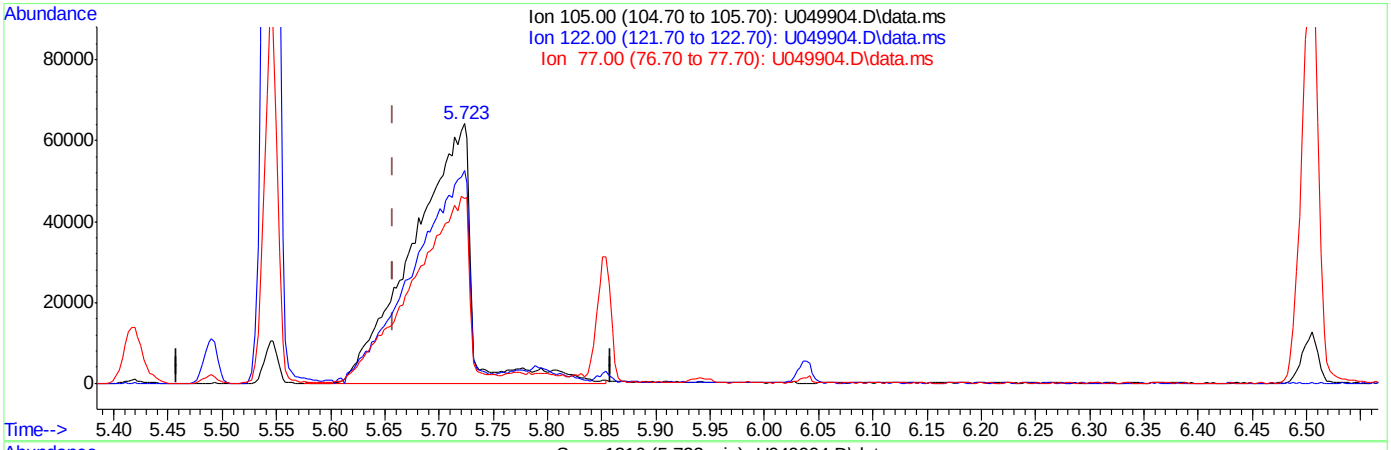
response 228604

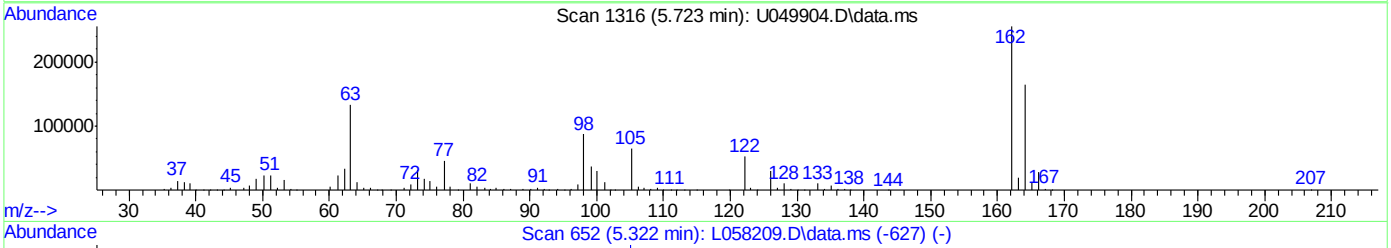
Ion	Exp%	Act%
105.00	100	100
122.00	81.20	81.51
77.00	73.70	70.65
0.00	0.00	0.00

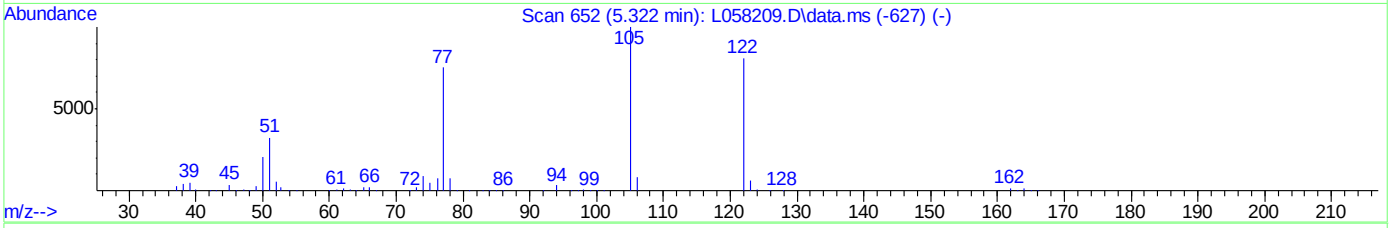
Quantitation Report (Qedit)

Data Path : C:\msdchem\2\DATA\SU2285\
Data File : U049904.D
Acq On : 30 Mar 2015 4:02 pm
Operator : nareshj
Sample : ic2285-100
Misc : op55483,su2285,30.0,,,1,1,soil
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Mar 30 16:28:16 2015
Quant Method : C:\msdchem\2\METHODS\8270da.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Mon Mar 30 15:24:28 2015
Response via : Initial Calibration







TIC: U049904.D\data.ms

(29) Benzoic Acid

5.723min (+0.065) 169.27ppm m

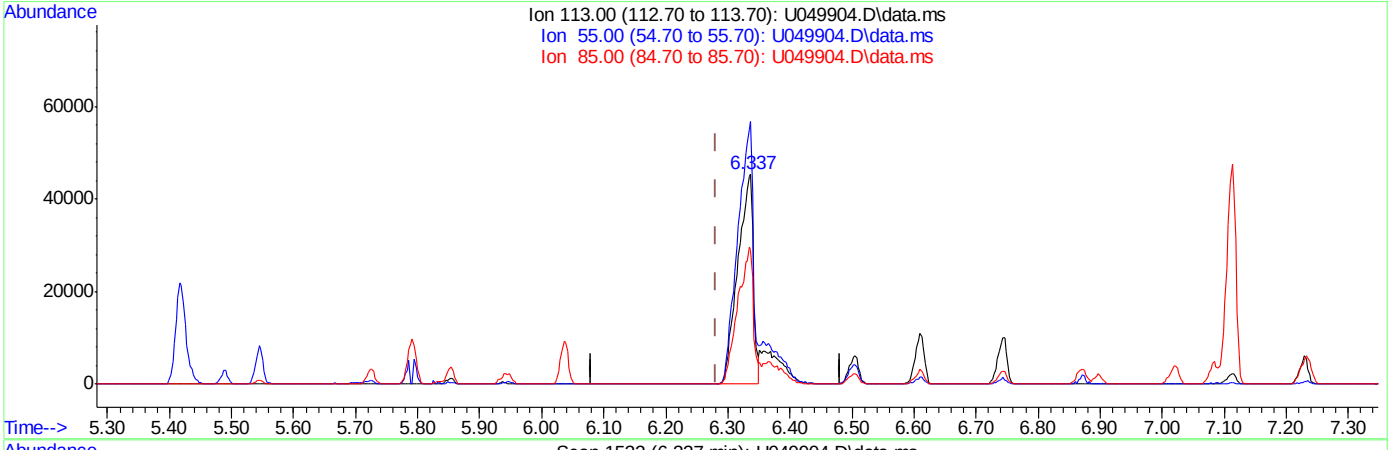
response 243689

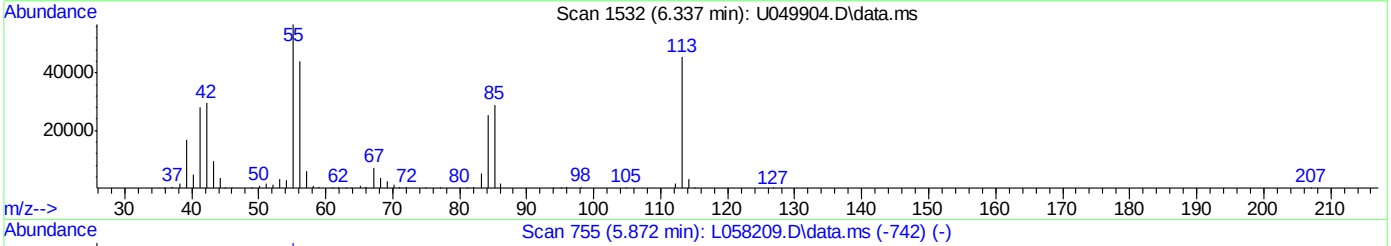
Ion	Exp%	Act%
105.00	100	100
122.00	81.20	81.95
77.00	73.70	71.07
0.00	0.00	0.00

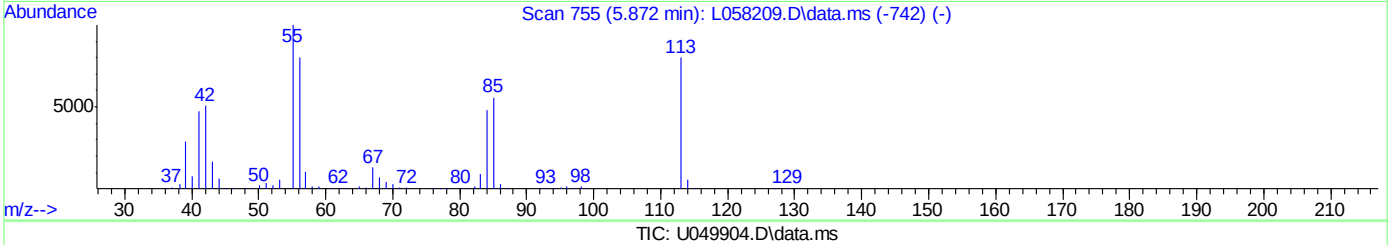
Quantitation Report (Qedit)

Data Path : C:\msdchem\2\DATA\SU2285\
Data File : U049904.D
Acq On : 30 Mar 2015 4:02 pm
Operator : nareshj
Sample : ic2285-100
Misc : op55483,su2285,30.0,,,1,1,soil
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Mar 30 16:28:16 2015
Quant Method : C:\msdchem\2\METHODS\8270da.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Mon Mar 30 15:24:28 2015
Response via : Initial Calibration







TIC: U049904.D\data.ms

(37) Caprolactam (P)

6.337min (+0.056) 110.10ppm

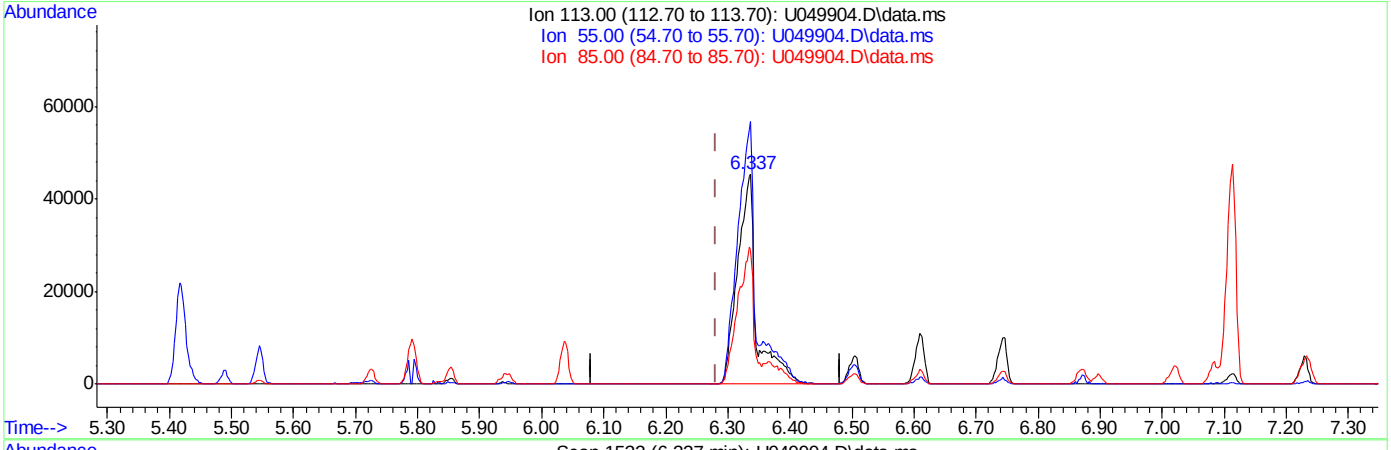
response 78261

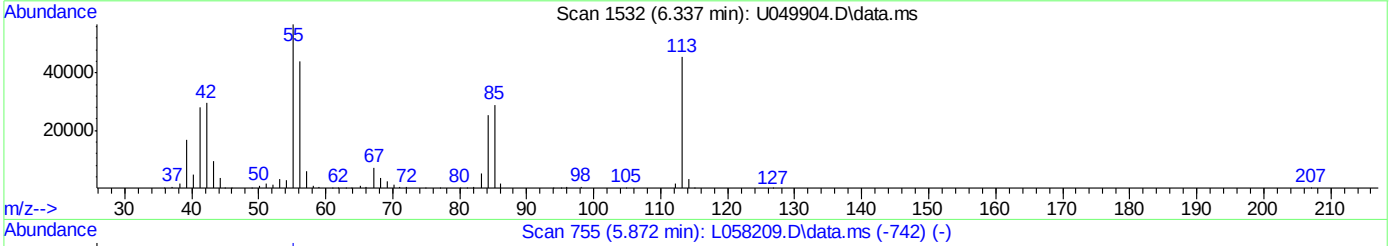
Ion	Exp%	Act%
113.00	100	100
55.00	123.70	123.99
85.00	63.90	63.09
0.00	0.00	0.00

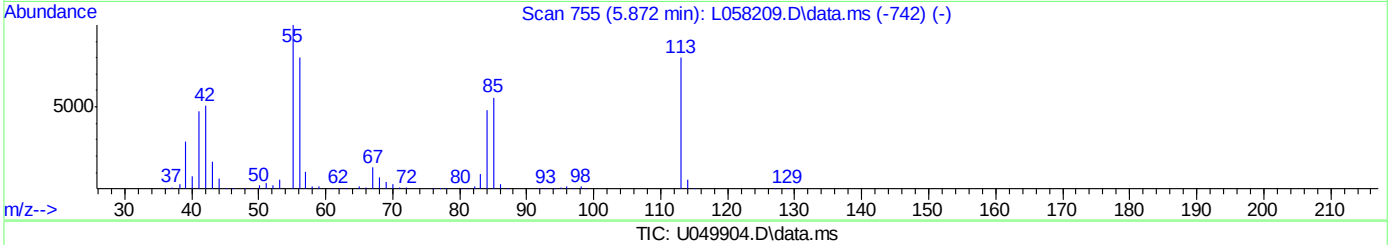
Quantitation Report (Qedit)

```
Data Path : C:\msdchem\2\DATA\SU2285\
Data File : U049904.D
Acq On    : 30 Mar 2015   4:02 pm
Operator  : nareshj
Sample    : ic2285-100
Misc      : op55483,su2285,30.0,,,1,1,soil
ALS Vial  : 8   Sample Multiplier: 1

Quant Time: Mar 30 16:28:16 2015
Quant Method : C:\msdchem\2\METHODS\8270da.m
Quant Title  : SW846 8270D OR EPA 625
QLast Update : Mon Mar 30 15:24:28 2015
Response via : Initial Calibration
```







TIC: U049904.D\data.ms

(37) Caprolactam (P)

6.337min (+0.056) 135.89ppm m

response 96592

Ion	Exp%	Act%
113.00	100	100
55.00	123.70	124.93
85.00	63.90	63.89
0.00	0.00	0.00

Manual Integrations APPROVED (compounds with "m" flag)
Mike Eger
03/31/15 12:48

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\SU2285\
Data File : U049905.D
Acq On : 30 Mar 2015 4:34 pm
Operator : nareshj
Sample : icv2285-50
Misc : op55483,su2285,30.0,,,1,1,soil
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Mar 31 08:38:29 2015
Quant Method : C:\msdchem\2\METHODS\8270da.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Mon Mar 30 16:32:14 2015
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.732	152	89983	40.00 ppm	0.00
22) Naphthalene-d8	5.834	136	344038	40.00 ppm	0.00
42) Acenaphthene-d10	8.056	164	194539	40.00 ppm	0.00
68) Phenanthrene-d10	10.486	188	318879	40.00 ppm	0.00
84) Chrysene-d12	15.396	240	286942	40.00 ppm	0.00
93) Perylene-d12	17.902	264	249698	40.00 ppm	0.00

System Monitoring Compounds

7) 2-Fluorophenol	0.000	112	0	0.00 ppm	
Spiked Amount 100.000	Range 40 - 102		Recovery = 0.00%#		
9) Phenol-d5	0.000	99	0d	0.00 ppm	
Spiked Amount 100.000	Range 41 - 100		Recovery = 0.00%#		
23) Nitrobenzene-d5	0.000	82	0d	0.00 ppm	
Spiked Amount 50.000	Range 40 - 105		Recovery = 0.00%#		
46) 2-Fluorobiphenyl	0.000	172	0	0.00 ppm	
Spiked Amount 50.000	Range 43 - 107		Recovery = 0.00%#		
73) 2,4,6-Tribromophenol	0.000	330	0	0.00 ppm	
Spiked Amount 100.000	Range 42 - 108		Recovery = 0.00%#		
87) Terphenyl-d14	0.000	244	0	0.00 ppm	
Spiked Amount 50.000	Range 45 - 119		Recovery = 0.00%#		

Target Compounds					Qvalue
2) 1,4-Dioxane	2.385	88	77125	60.50 ppm	99
3) N-nitrosodimethylamine	2.708	42	67261	52.03 ppm	99
8) bis(2-Chloroethyl)ether	4.564	93	156902	50.72 ppm	99
10) Phenol	4.547	94	221433	55.45 ppm	98
11) 2-Chlorophenol	4.615	128	180363	53.20 ppm	99
12) 1,3-Dichlorobenzene	4.703	146	177983	49.09 ppm	98
13) 1,4-Dichlorobenzene	4.746	146	183795	50.17 ppm	99
14) 1,2-Dichlorobenzene	4.888	146	171223	48.99 ppm	99
16) bis(2-chloroisopropyl)...	4.976	45	199031	51.54 ppm	95
17) 2-Methylphenol	4.984	108	152250	50.66 ppm	98
18) Acetophenone	5.070	105	254493	57.40 ppm	100
19) Hexachloroethane	5.135	117	67639	49.70 ppm	93
20) N-Nitroso-di-n-propyla...	5.095	70	108224	51.33 ppm	99
21) 3&4-Methylphenol	5.107	108	327757	102.99 ppm	93
24) Nitrobenzene	5.209	77	168713	50.80 ppm	96
25) Isophorone	5.414	82	296275	48.05 ppm	99
26) 2-Nitrophenol	5.490	139	100551	53.90 ppm	96
27) 2,4-Dimethylphenol	5.544	107	166519	52.64 ppm	96
28) bis(2-Chloroethoxy)met...	5.615	93	178867	49.02 ppm	98
29) Benzoic Acid	5.735	105	284729	110.77 ppm	98
30) 2,4-Dichlorophenol	5.723	162	139253	51.32 ppm	99
31) 1,2,4-Trichlorobenzene	5.791	180	140428	48.10 ppm	99
33) Naphthalene	5.854	128	487241	51.13 ppm	100
35) 2,6-Dichlorophenol	5.942	162	134268	49.23 ppm	99
36) Hexachlorobutadiene	6.039	225	82228	52.30 ppm	98
37) Caprolactam	6.309	113	54056m	48.90 ppm	
38) 4-Chloro-3-methylphenol	6.499	107	141668	51.74 ppm	98
41) 1,2,4,5-Tetrachloroben...	6.871	216	139909	47.81 ppm	99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\SU2285\
Data File : U049905.D
Acq On : 30 Mar 2015 4:34 pm
Operator : nareshj
Sample : icv2285-50
Misc : op55483,su2285,30.0,,,1,1,soil
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Mar 31 08:38:29 2015
Quant Method : C:\msdchem\2\METHODS\8270da.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Mon Mar 30 16:32:14 2015
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
43) Hexachlorocyclopentadiene	6.897	237	83698	45.06 ppm	99
44) 2,4,6-Trichlorophenol	7.016	196	102996	53.55 ppm	95
45) 2,4,5-Trichlorophenol	7.079	196	105567	51.86 ppm	96
47) 1,1'-Biphenyl	7.226	154	365009	47.83 ppm	99
48) 2-Chloronaphthalene	7.232	162	284881	49.83 ppm	99
51) Acenaphthylene	7.823	152	490041	51.52 ppm	100
52) Dimethylphthalate	7.755	163	329076	50.47 ppm	100
54) 2,6-Dinitrotoluene	7.846	165	79483	49.82 ppm	96
56) Acenaphthene	8.104	153	301727	51.78 ppm	99
58) 2,4-Dinitrophenol	8.207	184	132396	110.11 ppm	93
60) 2,4-Dinitrotoluene	8.445	165	104426	49.08 ppm	99
61) 4-Nitrophenol	8.423	109	82312	107.92 ppm	98
63) 2,3,4,6-Tetrachlorophenol	8.644	232	78872	48.18 ppm	96
64) Fluorene	8.906	166	334982	50.73 ppm	99
65) 4-Chlorophenyl-phenyle...	8.937	204	156361	49.33 ppm	98
66) Diethylphthalate	8.894	149	310585	50.01 ppm	97
69) 4,6-Dinitro-2-methylph...	9.116	198	140134	110.78 ppm	98
70) n-Nitrosodiphenylamine	9.161	169	234112	49.54 ppm	98
71) Diphenylamine	9.161	169	234112	41.29 ppm	98
72) 1,2-Diphenylhydrazine	9.198	77	313339	48.35 ppm	98
74) 4-Bromophenyl-phenylether	9.752	248	77324	43.88 ppm	97
75) Hexachlorobenzene	9.968	284	83924	42.58 ppm	98
77) Atrazine	10.207	200	82042	45.49 ppm	98
78) Pentachlorophenol	10.324	266	146177	113.57 ppm	95
79) Phenanthrene	10.531	178	465475	50.81 ppm	99
80) Anthracene	10.608	178	467060	50.85 ppm	99
82) Di-n-butylphthalate	11.812	149	508808	50.43 ppm	99
83) Fluoranthene	12.693	202	461963	49.86 ppm	99
86) Pyrene	13.088	202	469165	51.36 ppm	98
88) Butylbenzylphthalate	14.600	149	213451	52.68 ppm	99
90) Benzo[a]anthracene	15.367	228	416685	51.63 ppm	100
91) Chrysene	15.447	228	394447	52.25 ppm	98
92) bis(2-Ethylhexyl)phtha...	15.810	149	286443	51.90 ppm	99
94) Di-n-octylphthalate	16.927	149	479218	54.09 ppm	98
95) Benzo[b]fluoranthene	17.291	252	372416	49.81 ppm	98
96) Benzo[k]fluoranthene	17.339	252	379120	53.41 ppm	100
97) Benzo[a]pyrene	17.808	252	360883	50.07 ppm	99
98) Indeno[1,2,3-cd]pyrene	19.487	276	314031	46.86 ppm	98
99) Dibenz[a,h]anthracene	19.538	278	348411	52.64 ppm	99
100) Benzo[g,h,i]perylene	19.837	276	353898	50.66 ppm	99

(#) = qualifier out of range (m) = manual integration (+) = signals summed

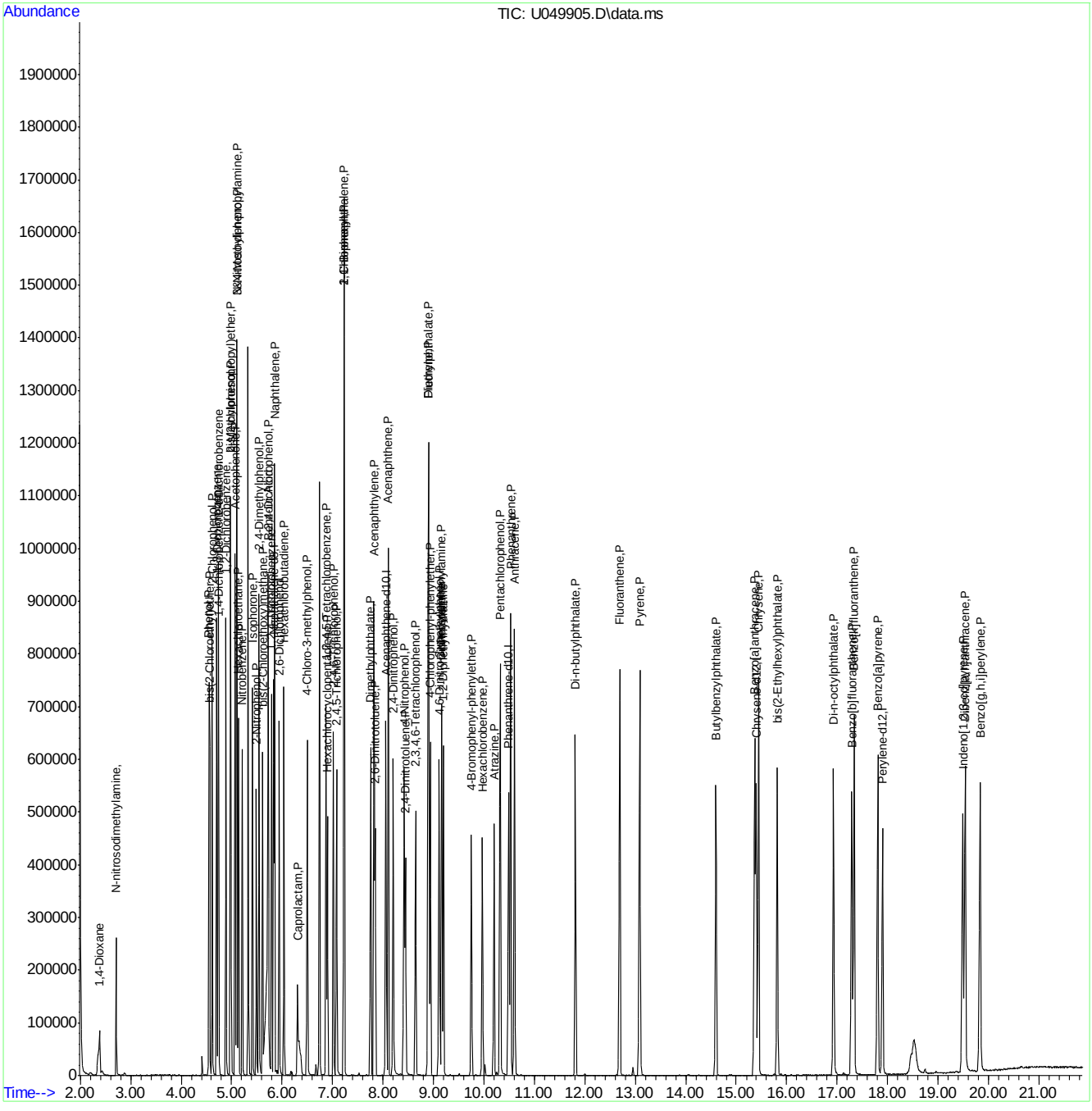
7.6.18

7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\SU2285\
Data File : U049905.D
Acq On : 30 Mar 2015 4:34 pm
Operator : nareshj
Sample : icv2285-50
Misc : op55483,su2285,30.0,,,1,1,soil
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Mar 31 08:38:29 2015
Quant Method : C:\msdchem\2\METHODS\8270da.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Mon Mar 30 16:32:14 2015
Response via : Initial Calibration



ACCUTEST LABORATORIES FA23189

Manual Integration Approval Summary

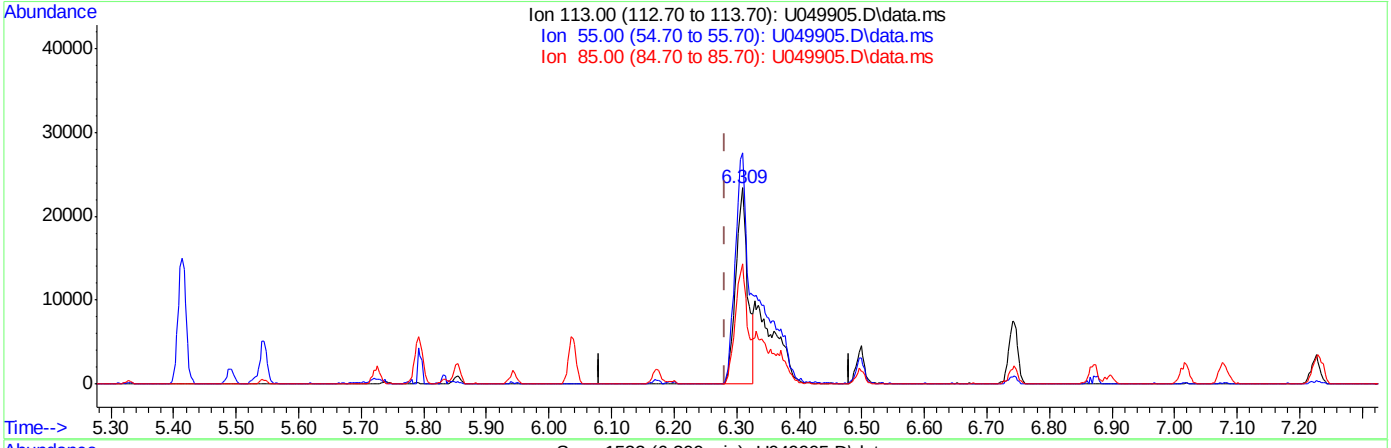
Sample Number:	SU2285-ICV2285	**Method:**	SW846 8270D
Lab FileID:	U049905.D	**Analyst approved:**	03/31/15 08:47 Naresh Jiawan
Injection Time:	03/30/15 16:34	**Supervisor approved:**	03/31/15 12:48 Mike Eger

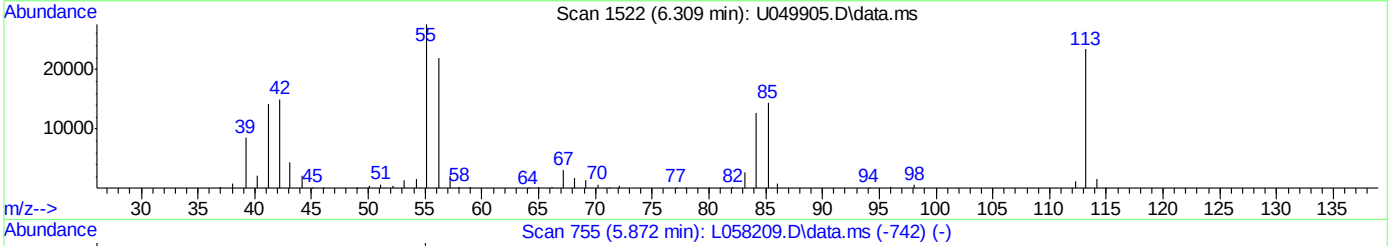
Parameter	CAS	Sig#	R.T. (min.)	Reason
Caprolactam	105-60-2		6.31	Split peak

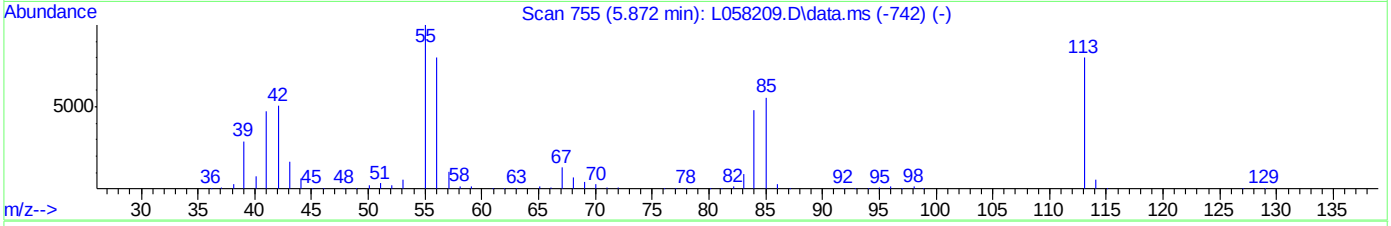
Quantitation Report (Qedit)

```
Data Path : C:\msdchem\2\DATA\SU2285\
Data File : U049905.D
Acq On    : 30 Mar 2015   4:34 pm
Operator  : nareshj
Sample    : icv2285-50
Misc      : op55483,su2285,30.0,,,1,1,soil
ALS Vial  : 9   Sample Multiplier: 1

Quant Time: Mar 31 08:35:50 2015
Quant Method : C:\msdchem\2\METHODS\8270da.m
Quant Title  : SW846 8270D OR EPA 625
QLast Update : Mon Mar 30 16:32:14 2015
Response via : Initial Calibration
```







TIC: U049905.D\data.ms

(37) Caprolactam (P)

6.309min (+0.028) 27.86ppm

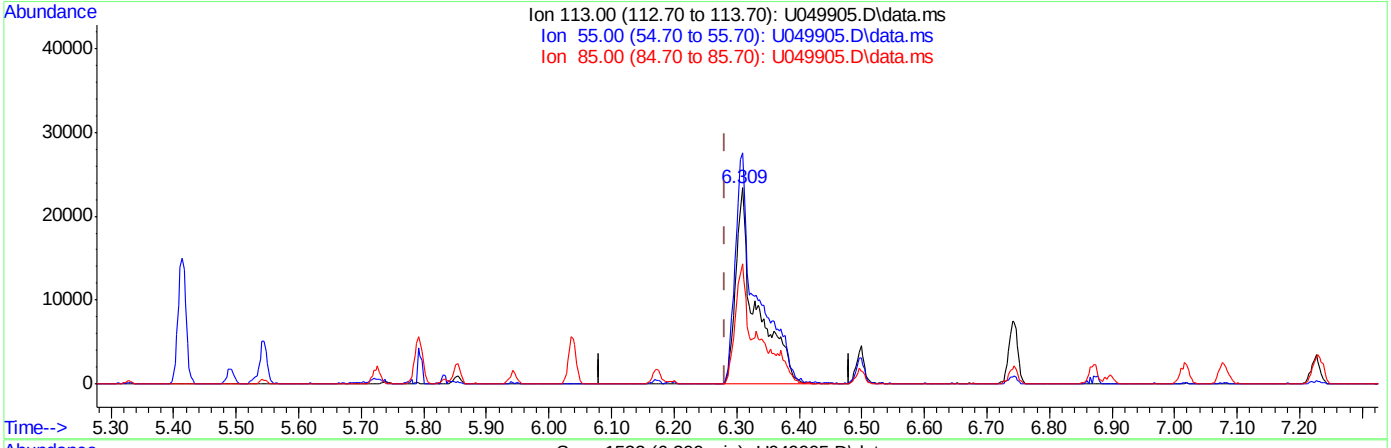
response 30792

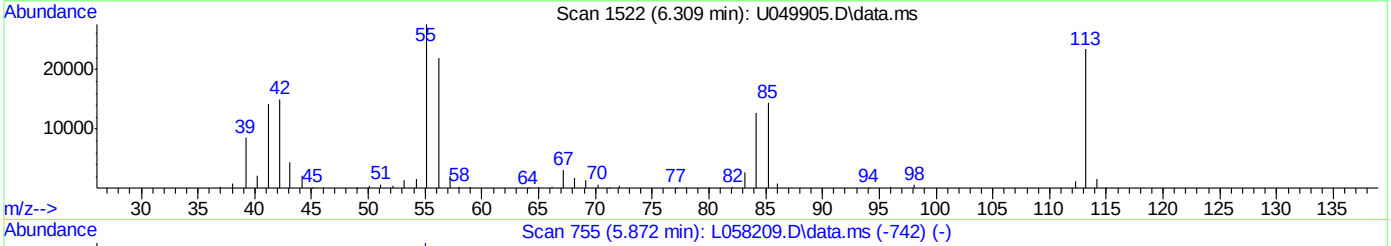
Ion	Exp%	Act%
113.00	100	100
55.00	111.60	115.91
85.00	56.60	60.69
0.00	0.00	0.00

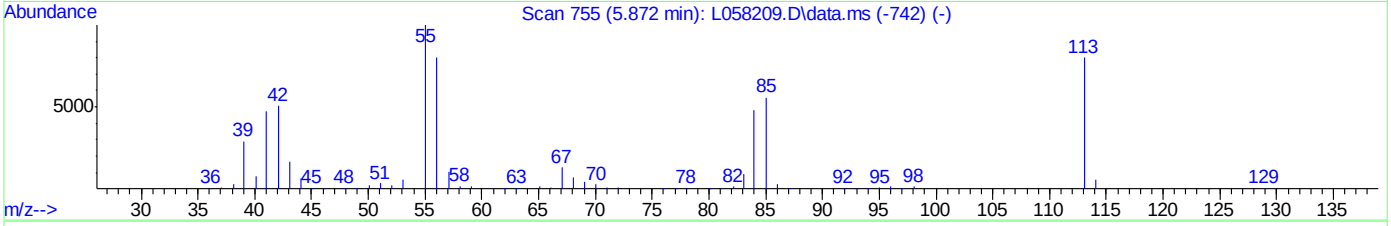
Quantitation Report (Qedit)

```
Data Path : C:\msdchem\2\DATA\SU2285\
Data File : U049905.D
Acq On    : 30 Mar 2015   4:34 pm
Operator  : nareshj
Sample    : icv2285-50
Misc      : op55483,su2285,30.0,,,1,1,soil
ALS Vial  : 9   Sample Multiplier: 1

Quant Time: Mar 31 08:35:50 2015
Quant Method : C:\msdchem\2\METHODS\8270da.m
Quant Title  : SW846 8270D OR EPA 625
QLast Update : Mon Mar 30 16:32:14 2015
Response via : Initial Calibration
```







TIC: U049905.D\data.ms

(37) Caprolactam (P)

6.309min (+0.028) 48.90ppm m

response 54056

Ion	Exp%	Act%
113.00	100	100
55.00	111.60	118.04
85.00	56.60	61.47
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\SU2285\
Data File : U049906.D
Acq On : 30 Mar 2015 5:01 pm
Operator : nareshj
Sample : icv2285-50
Misc : op55483,su2285,30.0,,,1,1,soil
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Mar 31 08:39:29 2015
Quant Method : C:\msdchem\2\METHODS\8270da.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Mon Mar 30 16:32:14 2015
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.723	152	81979	40.00 ppm	0.00
22) Naphthalene-d8	5.823	136	340324	40.00 ppm	0.00
42) Acenaphthene-d10	8.050	164	172168	40.00 ppm	0.00
68) Phenanthrene-d10	10.474	188	278963	40.00 ppm	0.00
84) Chrysene-d12	15.381	240	274349	40.00 ppm	-0.01
93) Perylene-d12	17.890	264	245389	40.00 ppm	0.00

System Monitoring Compounds

7) 2-Fluorophenol	0.000	112	0	0.00 ppm	
Spiked Amount 100.000	Range 40 - 102		Recovery =	0.00%#	
9) Phenol-d5	0.000	99	0	0.00 ppm	
Spiked Amount 100.000	Range 41 - 100		Recovery =	0.00%#	
23) Nitrobenzene-d5	0.000	82	0	0.00 ppm	
Spiked Amount 50.000	Range 40 - 105		Recovery =	0.00%#	
46) 2-Fluorobiphenyl	0.000	172	0	0.00 ppm	
Spiked Amount 50.000	Range 43 - 107		Recovery =	0.00%#	
73) 2,4,6-Tribromophenol	0.000	330	0	0.00 ppm	
Spiked Amount 100.000	Range 42 - 108		Recovery =	0.00%#	
87) Terphenyl-d14	0.000	244	0	0.00 ppm	
Spiked Amount 50.000	Range 45 - 119		Recovery =	0.00%#	

Target Compounds

						Qvalue
4) Pyridine	2.646	79	135693	44.20 ppm		95
5) Benzaldehyde	4.405	106	108875	45.80 ppm		97
6) Aniline	4.516	93	206266	45.12 ppm		86
15) Benzyl alcohol	4.859	108	90290	44.14 ppm		99
34) 4-Chloroaniline	5.925	127	175051	41.80 ppm		97
39) 2-Methylnaphthalene	6.604	142	265270	41.44 ppm		99
49) 2-Nitroaniline	7.428	65	73598	48.43 ppm		97
53) m-Dinitrobenzene	7.752	168	47008	45.33 ppm	#	67
57) 3-Nitroaniline	8.042	138	76900	49.07 ppm		98
59) Dibenzofuran	8.346	168	339405	46.31 ppm		99
67) 4-Nitroaniline	9.028	138	75923	47.94 ppm		97
81) Carbazole	10.943	167	365308	48.27 ppm		99
85) Benzidine	13.031	184	270476	55.60 ppm		98
89) 3,3'-Dichlorobenzidine	15.435	252	144350	50.20 ppm		98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

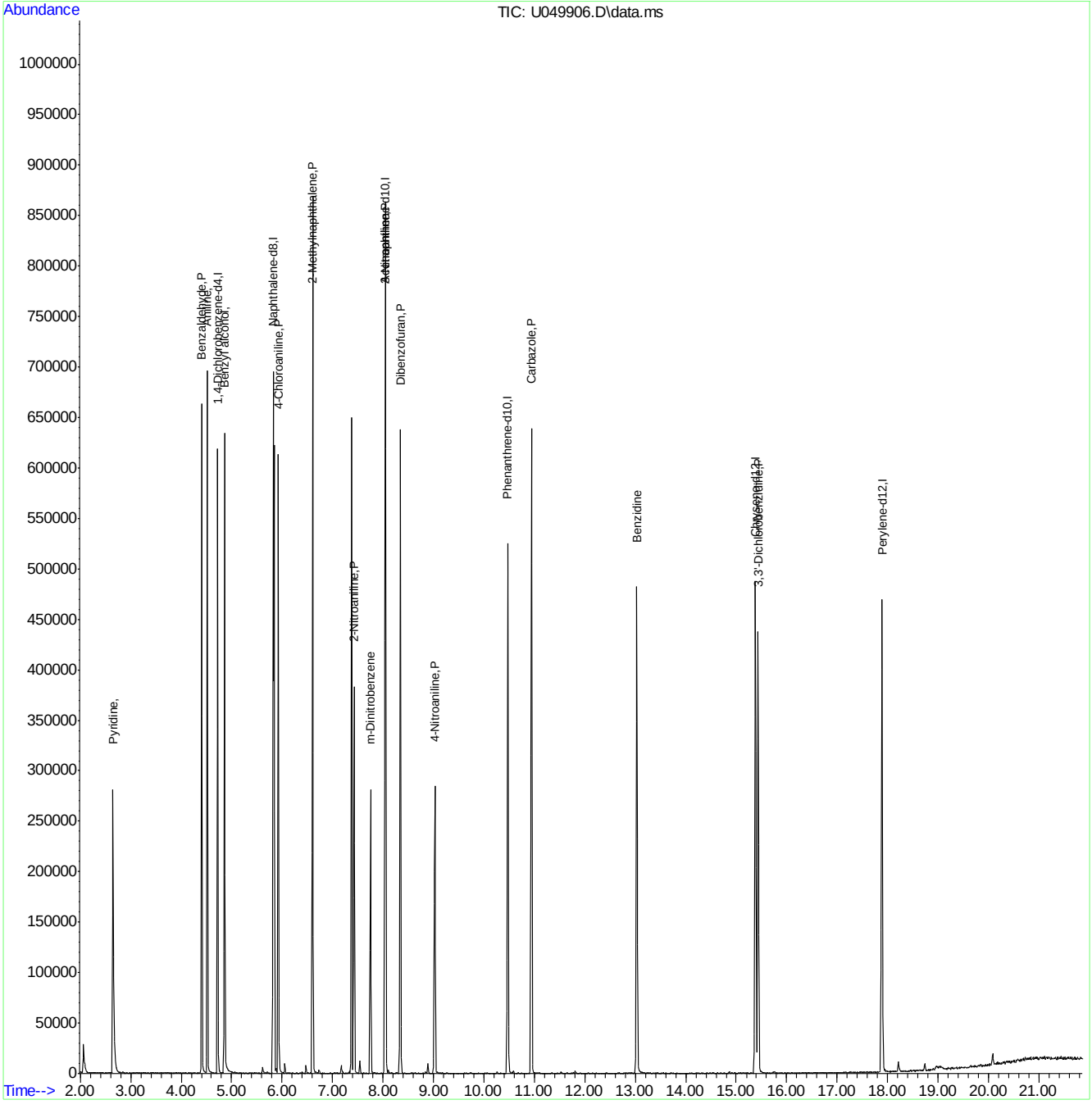
7.6.19

7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\SU2285\
Data File : U049906.D
Acq On : 30 Mar 2015 5:01 pm
Operator : nareshj
Sample : icv2285-50
Misc : op55483,su2285,30.0,,,1,1,soil
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Mar 31 08:39:29 2015
Quant Method : C:\msdchem\2\METHODS\8270da.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Mon Mar 30 16:32:14 2015
Response via : Initial Calibration



8270da.m Tue Mar 31 08:41:23 2015 Page: 2

ACCUTEST LABORATORIES FA23189

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\SU2285\
Data File : U049907.D
Acq On : 30 Mar 2015 5:27 pm
Operator : nareshj
Sample : icv2285-50,1-methylnaphthalene
Misc : op55483,su2285,30.0,,,1,1,soil
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Mar 31 08:40:13 2015
Quant Method : C:\msdchem\2\METHODS\8270da.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Mon Mar 30 16:32:14 2015
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.723	152	80895	40.00	ppm	0.00
22) Naphthalene-d8	5.826	136	302633	40.00	ppm	0.00
42) Acenaphthene-d10	8.048	164	167198	40.00	ppm	0.00
68) Phenanthrene-d10	10.477	188	272903	40.00	ppm	0.00
84) Chrysene-d12	15.384	240	267463	40.00	ppm	0.00
93) Perylene-d12	17.893	264	241528	40.00	ppm	0.00

System Monitoring Compounds

7) 2-Fluorophenol	0.000	112	0	0.00	ppm	
Spiked Amount 100.000	Range 40 - 102		Recovery	=	0.00%#	
9) Phenol-d5	0.000	99	0	0.00	ppm	
Spiked Amount 100.000	Range 41 - 100		Recovery	=	0.00%#	
23) Nitrobenzene-d5	0.000	82	0	0.00	ppm	
Spiked Amount 50.000	Range 40 - 105		Recovery	=	0.00%#	
46) 2-Fluorobiphenyl	0.000	172	0	0.00	ppm	
Spiked Amount 50.000	Range 43 - 107		Recovery	=	0.00%#	
73) 2,4,6-Tribromophenol	0.000	330	0	0.00	ppm	
Spiked Amount 100.000	Range 42 - 108		Recovery	=	0.00%#	
87) Terphenyl-d14	0.000	244	0	0.00	ppm	
Spiked Amount 50.000	Range 45 - 119		Recovery	=	0.00%#	

Target Compounds						Qvalue
40) 1-Methylnaphthalene	6.738	142	270678	53.97	ppm	100

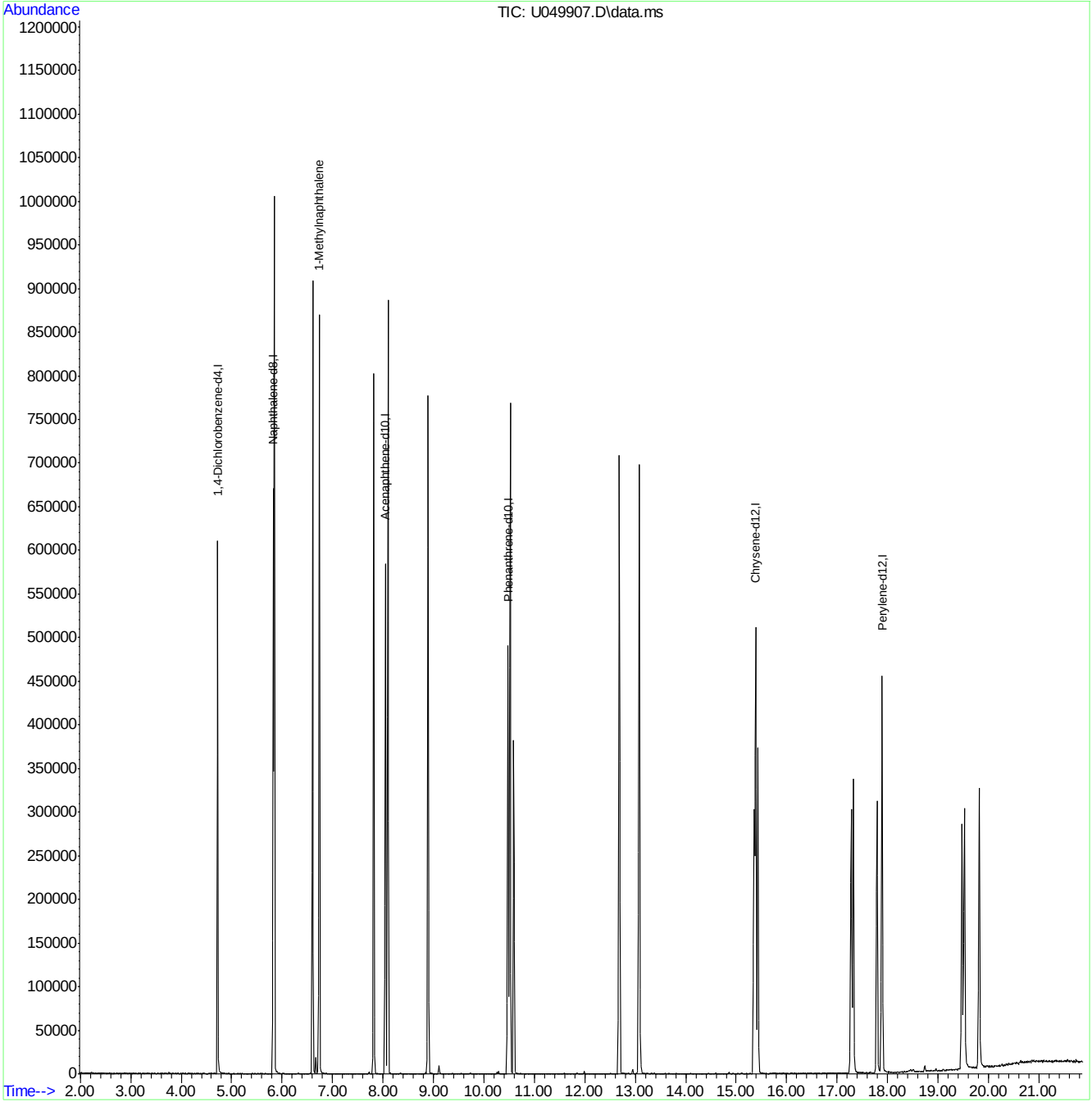
(#) = qualifier out of range (m) = manual integration (+) = signals summed

ACCUTEST LABORATORIES FA23189

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\SU2285\
Data File : U049907.D
Acq On : 30 Mar 2015 5:27 pm
Operator : nareshj
Sample : icv2285-50,1-methylnaphthalene
Misc : op55483,su2285,30.0,,,1,1,soil
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Mar 31 08:40:13 2015
Quant Method : C:\msdchem\2\METHODS\8270da.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Mon Mar 30 16:32:14 2015
Response via : Initial Calibration



ACCUTEST LABORATORIES FA23189

Manual Integrations APPROVED (compounds with "m" flag)
Mike Eger
04/02/15 13:16

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\SU2287\
Data File : U049953.D
Acq On : 1 Apr 2015 9:59 am
Operator : nareshj
Sample : cc2285-50
Misc : op55483,su2287,30.0,,,1,1,soil
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Apr 01 15:38:46 2015
Quant Method : C:\msdchem\2\METHODS\8270da2.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Tue Mar 31 14:48:34 2015
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.714	152	90193	40.00	ppm	0.00
22) Naphthalene-d8	5.814	136	332268	40.00	ppm	0.00
42) Acenaphthene-d10	8.033	164	180436	40.00	ppm	0.00
68) Phenanthrene-d10	10.457	188	290001	40.00	ppm	0.00
84) Chrysene-d12	15.364	240	263409	40.00	ppm	0.00
93) Perylene-d12	17.868	264	236037	40.00	ppm	0.00

System Monitoring Compounds

7) 2-Fluorophenol	3.814	112	350260	115.09	ppm	0.00
Spiked Amount 100.000	Range 40 - 102		Recovery = 115.09%#			
9) Phenol-d5	4.521	99	360152	108.83	ppm	0.00
Spiked Amount 100.000	Range 41 - 100		Recovery = 108.83%#			
23) Nitrobenzene-d5	5.180	82	181204	55.89	ppm	0.00
Spiked Amount 50.000	Range 40 - 105		Recovery = 111.78%#			
46) 2-Fluorobiphenyl	7.087	172	353029	55.87	ppm	0.00
Spiked Amount 50.000	Range 43 - 107		Recovery = 111.74%#			
73) 2,4,6-Tribromophenol	9.318	330	94218	110.22	ppm	0.00
Spiked Amount 100.000	Range 42 - 108		Recovery = 110.22%#			
87) Terphenyl-d14	13.486	244	314886	55.07	ppm	0.00
Spiked Amount 50.000	Range 45 - 119		Recovery = 110.14%			

Target Compounds

						Qvalue
2) 1,4-Dioxane	2.305	88	76228	59.66	ppm	95
3) N-nitrosodimethylamine	2.646	42	74441	57.45	ppm	99
4) Pyridine	2.637	79	196288	58.11	ppm	98
5) Benzaldehyde	4.396	106	138753	57.05	ppm	96
6) Aniline	4.507	93	274432	54.57	ppm	98
8) bis(2-Chloroethyl)ether	4.547	93	171377	55.27	ppm	96
10) Phenol	4.530	94	218030	54.47	ppm	97
11) 2-Chlorophenol	4.595	128	187538	55.19	ppm	99
12) 1,3-Dichlorobenzene	4.686	146	201285	55.39	ppm	99
13) 1,4-Dichlorobenzene	4.726	146	203072	55.31	ppm	100
14) 1,2-Dichlorobenzene	4.871	146	193286	55.17	ppm	100
15) Benzyl alcohol	4.851	108	120753	53.66	ppm	99
16) bis(2-chloroisopropyl)...	4.959	45	204080	52.72	ppm	94
17) 2-Methylphenol	4.967	108	161757	53.70	ppm	98
18) Acetophenone	5.053	105	219553	49.41	ppm	100
19) Hexachloroethane	5.118	117	76403	56.01	ppm	91
20) N-Nitroso-di-n-propyla...	5.078	70	110532	52.31	ppm	99
21) 3&4-Methylphenol	5.081	108	167899	52.63	ppm	97
24) Nitrobenzene	5.195	77	178847	55.76	ppm	100
25) Isophorone	5.396	82	316190	53.10	ppm	99
26) 2-Nitrophenol	5.473	139	100312	55.68	ppm	92
27) 2,4-Dimethylphenol	5.524	107	167552	54.84	ppm	98
28) bis(2-Chloroethoxy)met...	5.598	93	187110	53.10	ppm	99
29) Benzoic Acid	5.664	105	119430m	48.11	ppm	
30) 2,4-Dichlorophenol	5.703	162	142045	54.21	ppm	97
31) 1,2,4-Trichlorobenzene	5.774	180	154790	54.90	ppm	98
33) Naphthalene	5.834	128	500298	54.36	ppm	100
34) 4-Chloroaniline	5.916	127	221814	54.25	ppm	98

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\SU2287\
Data File : U049953.D
Acq On : 1 Apr 2015 9:59 am
Operator : nareshj
Sample : cc2285-50
Misc : op55483,su2287,30.0,,,1,1,soil
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Apr 01 15:38:46 2015
Quant Method : C:\msdchem\2\METHODS\8270da2.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Tue Mar 31 14:48:34 2015
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
35) 2,6-Dichlorophenol	5.928	162	142967	54.27	ppm	99
36) Hexachlorobutadiene	6.019	225	82597	54.39	ppm	99
37) Caprolactam	6.280	113	52540	49.22	ppm	96
38) 4-Chloro-3-methylphenol	6.473	107	142561	53.91	ppm	99
39) 2-Methylnaphthalene	6.590	142	333185	53.32	ppm	99
40) 1-Methylnaphthalene	6.721	142	294363	53.45	ppm	99
41) 1,2,4,5-Tetrachloroben...	6.848	216	151638	53.65	ppm	100
43) Hexachlorocyclopentadiene	6.877	237	100307	58.23	ppm	97
44) 2,4,6-Trichlorophenol	6.993	196	100107	56.11	ppm	97
45) 2,4,5-Trichlorophenol	7.053	196	105296	55.77	ppm	97
47) 1,1'-Biphenyl	7.204	154	366137	51.72	ppm	99
48) 2-Chloronaphthalene	7.209	162	296160	55.85	ppm	99
49) 2-Nitroaniline	7.411	65	89492	56.19	ppm	99
50) p-Dinitrobenzene	7.570	75	63788	56.21	ppm	97
51) Acenaphthylene	7.800	152	488168	55.33	ppm	100
52) Dimethylphthalate	7.738	163	326424	53.98	ppm	99
53) m-Dinitrobenzene	7.741	168	61847	56.91	ppm	95
54) 2,6-Dinitrotoluene	7.823	165	80833	54.63	ppm	95
55) o-Dinitrobenzene	7.920	50	42263	55.18	ppm	94
56) Acenaphthene	8.084	153	298077	55.15	ppm	98
57) 3-Nitroaniline	8.030	138	91998	56.02	ppm	96
58) 2,4-Dinitrophenol	8.178	184	51979	52.43	ppm	96
59) Dibenzofuran	8.329	168	424041	55.20	ppm	88
60) 2,4-Dinitrotoluene	8.423	165	107681	54.57	ppm	96
61) 4-Nitrophenol	8.377	109	39540	55.90	ppm	97
62) 2,3,5,6-Tetrachlorophenol	8.545	232	85001	55.14	ppm	99
63) 2,3,4,6-Tetrachlorophenol	8.616	232	84615	55.73	ppm	95
64) Fluorene	8.877	166	333931	54.52	ppm	99
65) 4-Chlorophenyl-phenyle...	8.908	204	158128	53.78	ppm	98
66) Diethylphthalate	8.863	149	310936	53.97	ppm	98
67) 4-Nitroaniline	9.022	138	92697	55.85	ppm	96
69) 4,6-Dinitro-2-methylph...	9.085	198	66224	57.56	ppm	88
70) n-Nitrosodiphenylamine	9.133	169	281314	65.46	ppm	99
71) Diphenylamine	9.133	169	281314	54.55	ppm	99
72) 1,2-Diphenylhydrazine	9.170	77	315451	53.53	ppm	99
74) 4-Bromophenyl-phenylether	9.724	248	87467	54.58	ppm	95
75) Hexachlorobenzene	9.943	284	98079	54.72	ppm	100
76) Simazine	10.099	201	46750	51.99	ppm	97
77) Atrazine	10.176	200	82745	50.45	ppm	97
78) Pentachlorophenol	10.284	266	59778	54.18	ppm	94
79) Phenanthrene	10.497	178	462245	55.49	ppm	99
80) Anthracene	10.576	178	459735	55.03	ppm	99
81) Carbazole	10.920	167	438048	55.68	ppm	99
82) Di-n-butylphthalate	11.784	149	491289	53.54	ppm	99
83) Fluoranthene	12.659	202	461335	54.75	ppm	98
85) Benzidine	13.009	184	278627	59.65	ppm	97
86) Pyrene	13.057	202	467284	55.73	ppm	99
88) Butylbenzylphthalate	14.569	149	201491	54.17	ppm	100
89) 3,3'-Dichlorobenzidine	15.413	252	158259	57.32	ppm	100
90) Benzo[a]anthracene	15.333	228	412038	55.62	ppm	98

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\SU2287\
Data File : U049953.D
Acq On : 1 Apr 2015 9:59 am
Operator : nareshj
Sample : cc2285-50
Misc : op55483,su2287,30.0,,,1,1,soil
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Apr 01 15:38:46 2015
Quant Method : C:\msdchem\2\METHODS\8270da2.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Tue Mar 31 14:48:34 2015
Response via : Initial Calibration

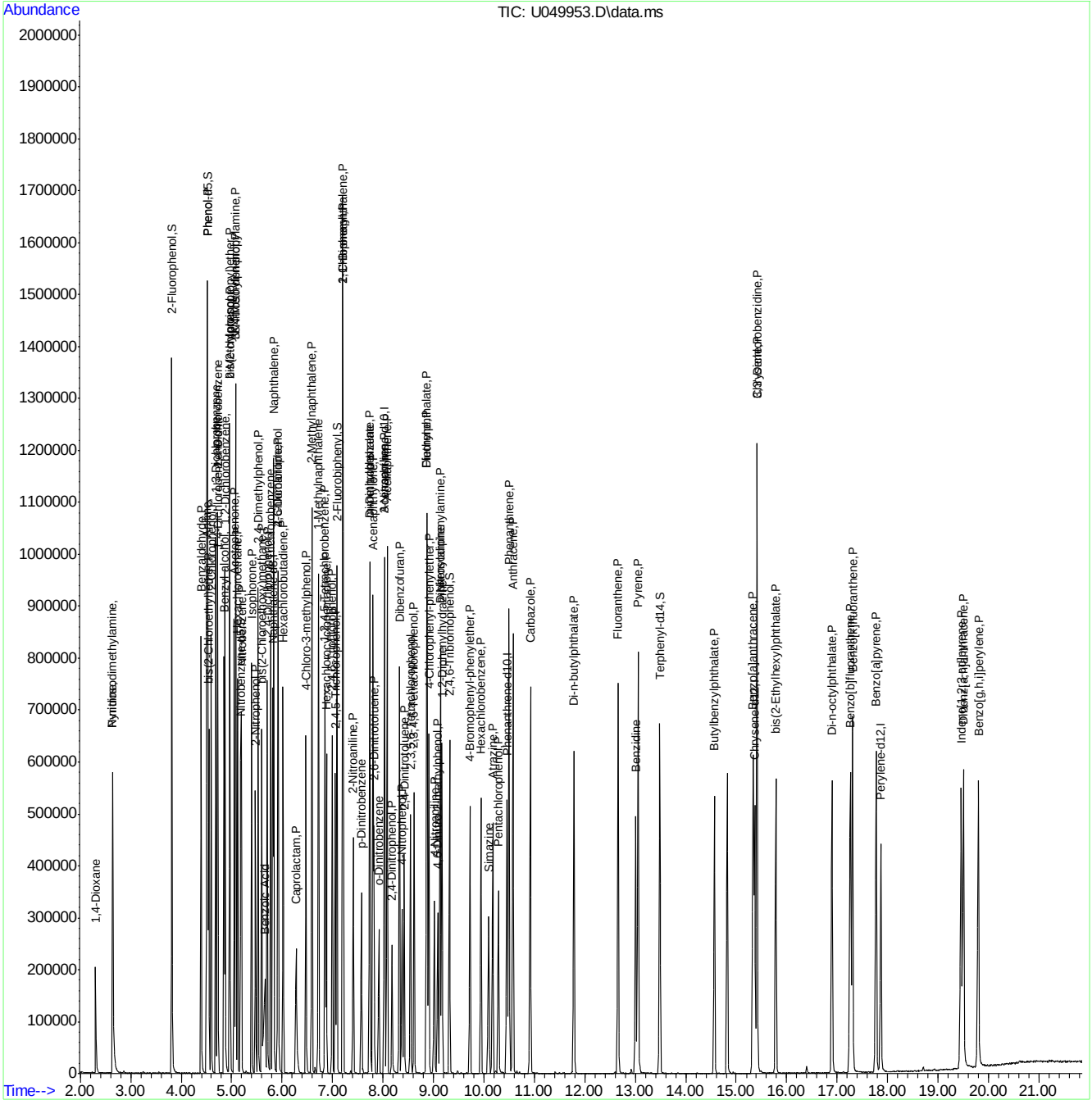
Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
91) Chrysene	15.413	228	385525	55.63 ppm	100
92) bis(2-Ethylhexyl)phtha...	15.785	149	269644	53.22 ppm	98
94) Di-n-octylphthalate	16.896	149	454471	54.27 ppm	99
95) Benzo[b]fluoranthene	17.262	252	388640	54.99 ppm	98
96) Benzo[k]fluoranthene	17.305	252	379177	56.51 ppm	100
97) Benzo[a]pyrene	17.774	252	380905	55.91 ppm	99
98) Indeno[1,2,3-cd]pyrene	19.459	276	344416	54.37 ppm	98
99) Dibenz[a,h]anthracene	19.504	278	352922	56.41 ppm	100
100) Benzo[g,h,i]perylene	19.803	276	354387	53.66 ppm	97

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\SU2287\
Data File : U049953.D
Acq On : 1 Apr 2015 9:59 am
Operator : nareshj
Sample : cc2285-50
Misc : op55483,su2287,30.0,,,1,1,soil
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Apr 01 15:38:46 2015
Quant Method : C:\msdchem\2\METHODS\8270da2.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Tue Mar 31 14:48:34 2015
Response via : Initial Calibration



ACCUTEST LABORATORIES FA23189

Manual Integration Approval Summary

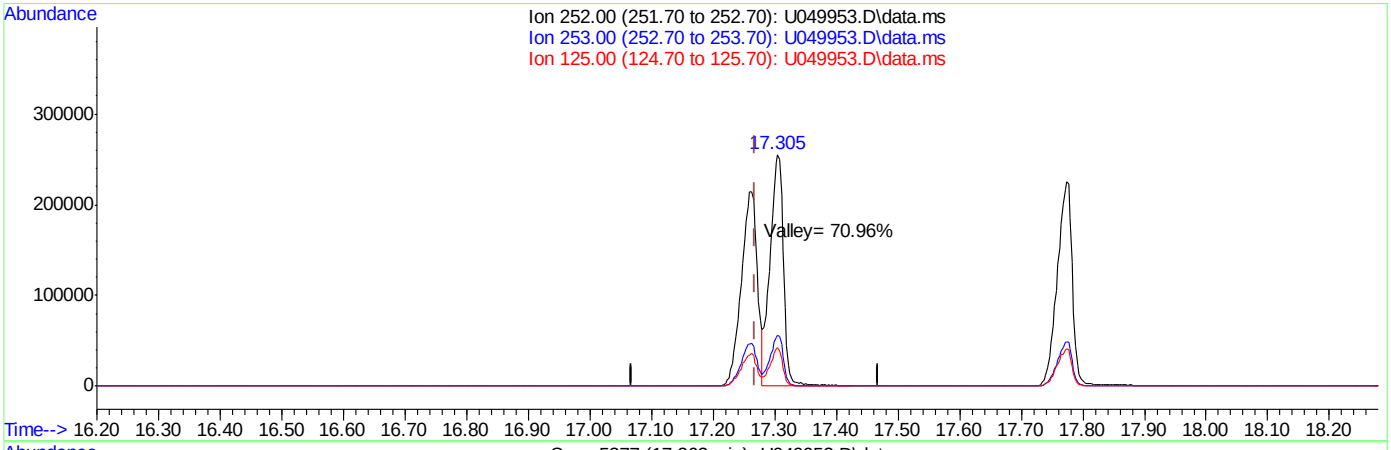
Sample Number:	SU2287-CC2285	**Method:**	SW846 8270D
Lab FileID:	U049953.D	**Analyst approved:**	04/02/15 09:08 Naresh Jiawan
Injection Time:	04/01/15 09:59	**Supervisor approved:**	04/02/15 13:16 Mike Eger

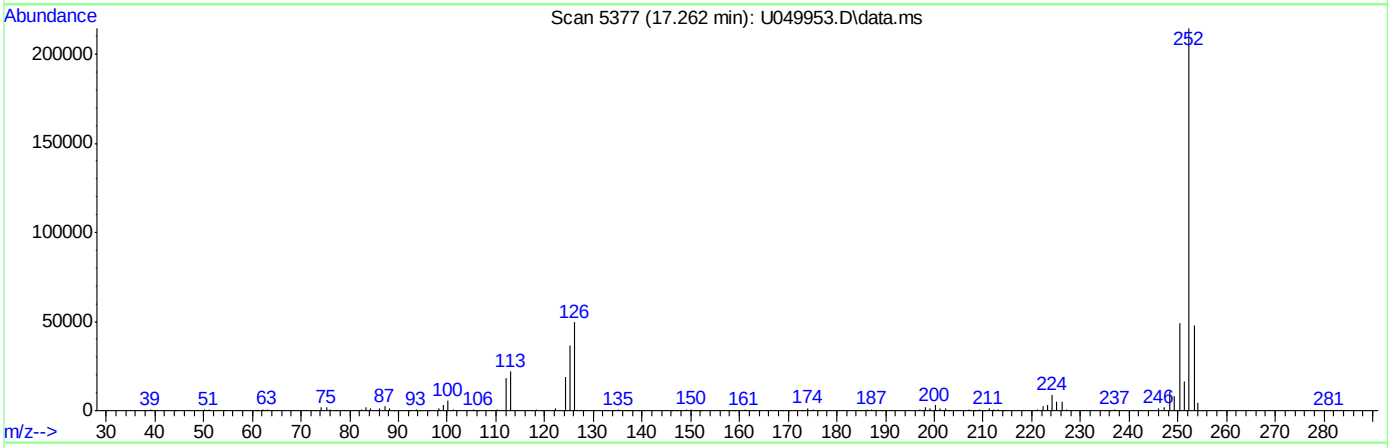
Parameter	CAS	Sig#	R.T. (min.)	Reason
Benzoic Acid	65-85-0		5.66	Split peak

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\DATA\SU2287\
Data File : U049953.D
Acq On : 1 Apr 2015 9:59 am
Operator : nareshj
Sample : cc2285-50
Misc : op55483,su2287,30.0,,,1,1,soil
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Apr 01 15:32:51 2015
Quant Method : C:\msdchem\2\METHODS\8270da2.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Tue Mar 31 14:48:34 2015
Response via : Initial Calibration





TIC: U049953.D\data.ms

(95) Benzo[b]fluoranthene (P)

17.262min (-0.006) 54.99ppm

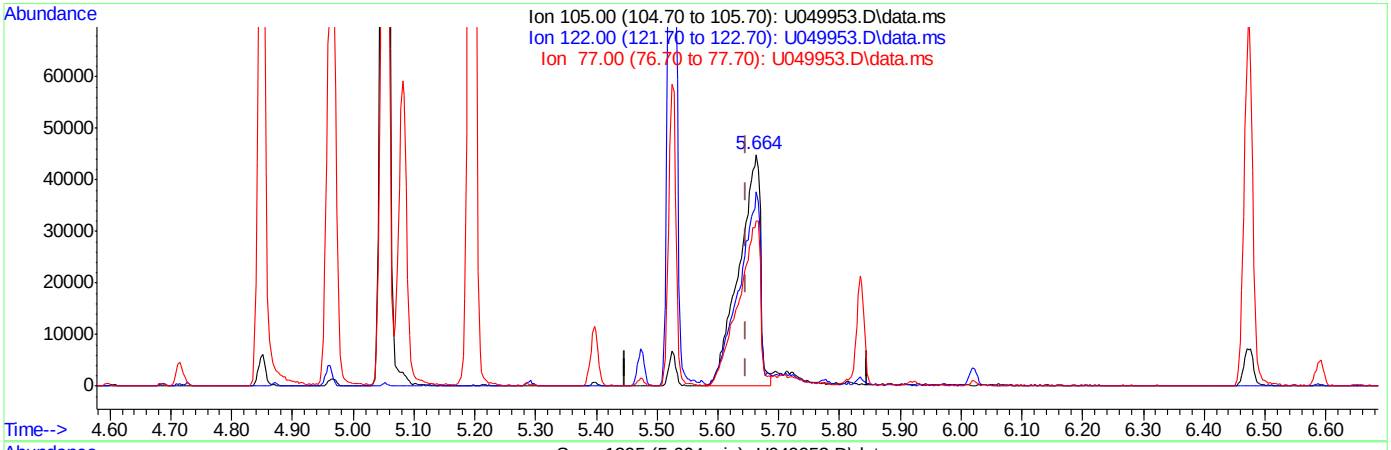
response 388640

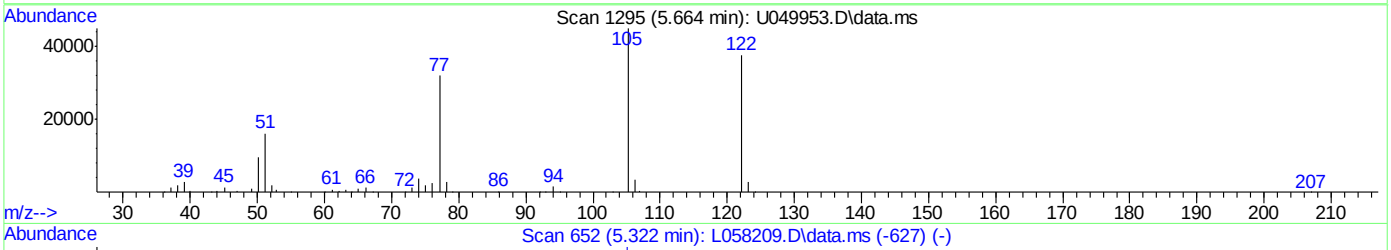
Ion	Exp%	Act%
252.00	100	100
253.00	21.60	22.68
125.00	16.40	17.06
0.00	0.00	0.00

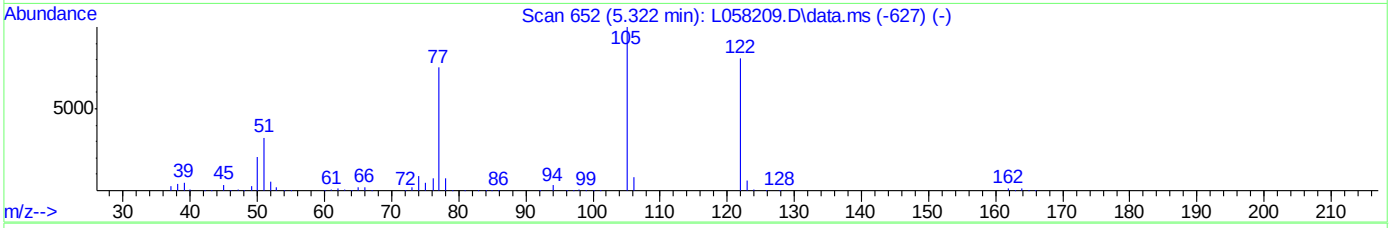
Quantitation Report (Qedit)

Data Path : C:\msdchem\2\DATA\SU2287\
Data File : U049953.D
Acq On : 1 Apr 2015 9:59 am
Operator : nareshj
Sample : cc2285-50
Misc : op55483,su2287,30.0,,,1,1,soil
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Apr 01 15:32:51 2015
Quant Method : C:\msdchem\2\METHODS\8270da2.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Tue Mar 31 14:48:34 2015
Response via : Initial Calibration







TIC: U049953.D\data.ms

(29) Benzoic Acid

5.664min (+0.016) 44.10ppm

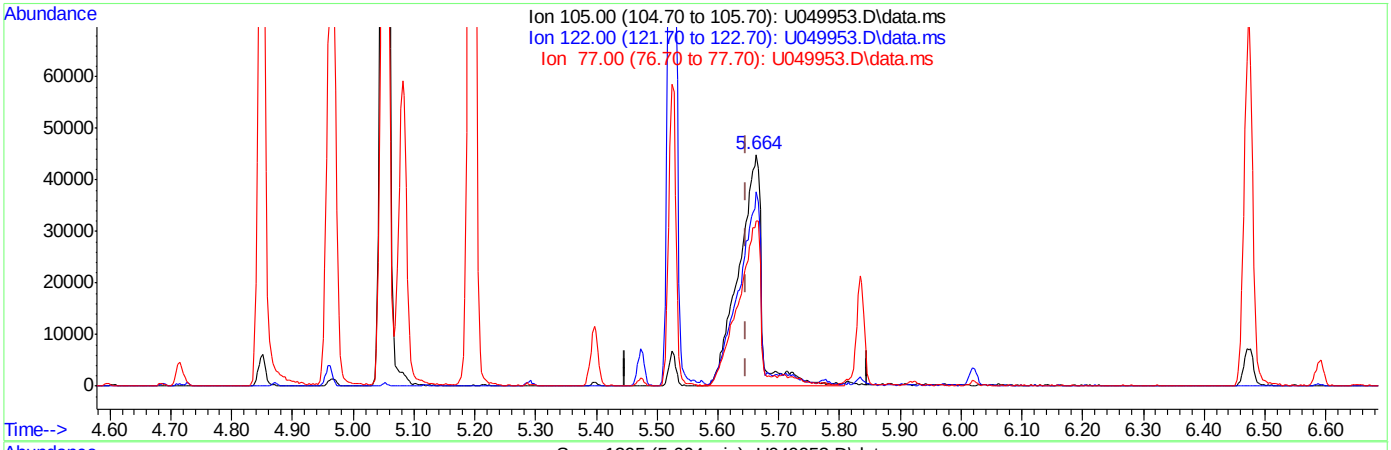
response 109485

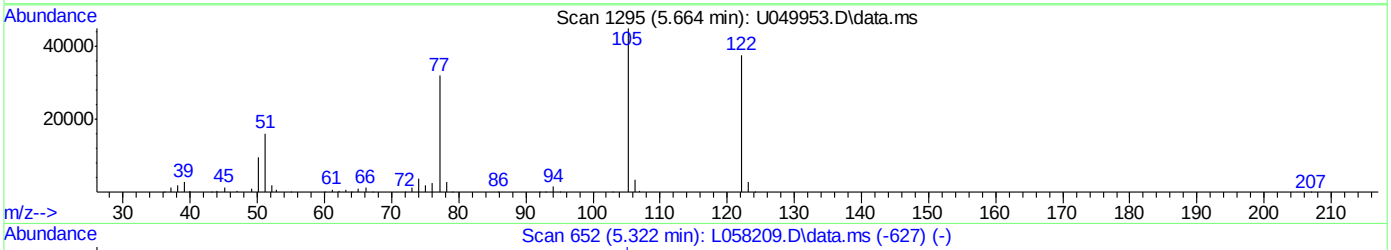
Ion	Exp%	Act%
105.00	100	100
122.00	82.20	82.77
77.00	71.80	70.93
0.00	0.00	0.00

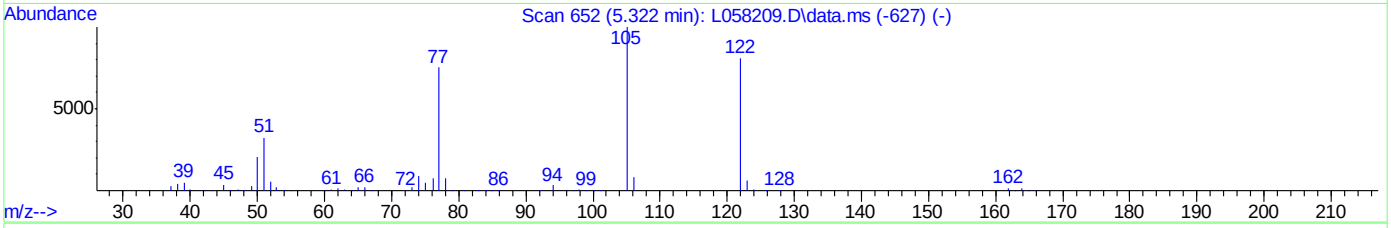
Quantitation Report (Qedit)

Data Path : C:\msdchem\2\DATA\SU2287\
Data File : U049953.D
Acq On : 1 Apr 2015 9:59 am
Operator : nareshj
Sample : cc2285-50
Misc : op55483,su2287,30.0,,,1,1,soil
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Apr 01 15:32:51 2015
Quant Method : C:\msdchem\2\METHODS\8270da2.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Tue Mar 31 14:48:34 2015
Response via : Initial Calibration







TIC: U049953.D\data.ms

(29) Benzoic Acid

5.664min (+0.016) 48.11ppm m

response 119430

Ion	Exp%	Act%
105.00	100	100
122.00	82.20	83.73
77.00	71.80	71.30
0.00	0.00	0.00

Manual Integrations APPROVED (compounds with "m" flag)
Mike Eger
04/02/15 13:16

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\SU2287\
Data File : U049980.D
Acq On : 1 Apr 2015 10:09 pm
Operator : nareshj
Sample : ecc2285-50
Misc : op55483,su2287,30.0,,,1,1,soil
ALS Vial : 29 Sample Multiplier: 1

Quant Time: Apr 02 08:58:34 2015
Quant Method : C:\msdchem\2\METHODS\8270da2.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Tue Mar 31 14:48:34 2015
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.709	152	54751	40.00	ppm	0.00
22) Naphthalene-d8	5.811	136	203176	40.00	ppm	0.00
42) Acenaphthene-d10	8.028	164	114674	40.00	ppm	-0.01
68) Phenanthrene-d10	10.446	188	191882	40.00	ppm	-0.02
84) Chrysene-d12	15.356	240	179661	40.00	ppm	-0.02
93) Perylene-d12	17.859	264	160903	40.00	ppm	-0.02

System Monitoring Compounds

7) 2-Fluorophenol	3.805	112	204027	110.44	ppm	0.00
Spiked Amount 100.000	Range 40 - 102		Recovery = 110.44%#			
9) Phenol-d5	4.513	99	217032	108.03	ppm	0.00
Spiked Amount 100.000	Range 41 - 100		Recovery = 108.03%#			
23) Nitrobenzene-d5	5.175	82	113864	57.44	ppm	0.00
Spiked Amount 50.000	Range 40 - 105		Recovery = 114.88%#			
46) 2-Fluorobiphenyl	7.081	172	222339	55.37	ppm	-0.01
Spiked Amount 50.000	Range 43 - 107		Recovery = 110.74%#			
73) 2,4,6-Tribromophenol	9.309	330	60089	106.24	ppm	-0.02
Spiked Amount 100.000	Range 42 - 108		Recovery = 106.24%			
87) Terphenyl-d14	13.480	244	211565	54.25	ppm	-0.01
Spiked Amount 50.000	Range 45 - 119		Recovery = 108.50%			

Target Compounds

						Qvalue
2) 1,4-Dioxane	2.288	88	43202	55.70	ppm	98
3) N-nitrosodimethylamine	2.629	42	45602	57.98	ppm	97
4) Pyridine	2.623	79	112909	55.06	ppm	99
5) Benzaldehyde	4.391	106	66811	40.81	ppm	99
6) Aniline	4.501	93	167523	54.87	ppm	99
8) bis(2-Chloroethyl)ether	4.541	93	100302	53.29	ppm	97
10) Phenol	4.521	94	133309	54.86	ppm	93
11) 2-Chlorophenol	4.589	128	112270	54.42	ppm	99
12) 1,3-Dichlorobenzene	4.683	146	121521	55.09	ppm	98
13) 1,4-Dichlorobenzene	4.723	146	122749	55.07	ppm	98
14) 1,2-Dichlorobenzene	4.868	146	116356	54.71	ppm	99
15) Benzyl alcohol	4.842	108	73920	54.11	ppm	96
16) bis(2-chloroisopropyl)...	4.956	45	125122	53.25	ppm	85
17) 2-Methylphenol	4.959	108	97619	53.39	ppm	92
18) Acetophenone	5.047	105	139378	51.67	ppm	99
19) Hexachloroethane	5.115	117	46175	55.76	ppm	93
20) N-Nitroso-di-n-propyla...	5.072	70	70152	54.69	ppm	99
21) 3&4-Methylphenol	5.075	108	101963	52.66	ppm	99
24) Nitrobenzene	5.189	77	111535	56.86	ppm	96
25) Isophorone	5.391	82	200337	55.02	ppm	98
26) 2-Nitrophenol	5.470	139	60411	54.83	ppm	87
27) 2,4-Dimethylphenol	5.519	107	104128	55.74	ppm	99
28) bis(2-Chloroethoxy)met...	5.592	93	116517	54.07	ppm	99
29) Benzoic Acid	5.646	105	75947m	50.03	ppm	
30) 2,4-Dichlorophenol	5.698	162	87024	54.31	ppm	98
31) 1,2,4-Trichlorobenzene	5.771	180	93294	54.11	ppm	100
33) Naphthalene	5.831	128	312007	55.44	ppm	99
34) 4-Chloroaniline	5.911	127	138690	55.47	ppm	97

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\SU2287\
Data File : U049980.D
Acq On : 1 Apr 2015 10:09 pm
Operator : nareshj
Sample : ecc2285-50
Misc : op55483,su2287,30.0,,,1,1,soil
ALS Vial : 29 Sample Multiplier: 1

Quant Time: Apr 02 08:58:34 2015
Quant Method : C:\msdchem\2\METHODS\8270da2.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Tue Mar 31 14:48:34 2015
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
35) 2,6-Dichlorophenol	5.922	162	88132	54.71	ppm	99
36) Hexachlorobutadiene	6.016	225	51449	55.41	ppm	97
37) Caprolactam	6.263	113	32489	49.77	ppm	95
38) 4-Chloro-3-methylphenol	6.465	107	90522	55.98	ppm	99
39) 2-Methylnaphthalene	6.584	142	209846	54.91	ppm	99
40) 1-Methylnaphthalene	6.718	142	182727	54.27	ppm	97
41) 1,2,4,5-Tetrachloroben...	6.846	216	93589	54.15	ppm	99
43) Hexachlorocyclopentadiene	6.871	237	57927	52.91	ppm	98
44) 2,4,6-Trichlorophenol	6.988	196	62134	54.80	ppm	95
45) 2,4,5-Trichlorophenol	7.044	196	65013	54.18	ppm	96
47) 1,1'-Biphenyl	7.198	154	229991	51.12	ppm	99
48) 2-Chloronaphthalene	7.204	162	184572	54.77	ppm	98
49) 2-Nitroaniline	7.402	65	57924	57.23	ppm	93
50) p-Dinitrobenzene	7.562	75	41148	57.05	ppm	97
51) Acenaphthylene	7.795	152	310633	55.40	ppm	100
52) Dimethylphthalate	7.729	163	211942	55.14	ppm	98
53) m-Dinitrobenzene	7.732	168	38010	55.03	ppm	96
54) 2,6-Dinitrotoluene	7.814	165	50889	54.11	ppm	94
55) o-Dinitrobenzene	7.908	50	28930	59.43	ppm	92
56) Acenaphthene	8.073	153	190973	55.59	ppm	98
57) 3-Nitroaniline	8.019	138	58575	56.12	ppm	98
58) 2,4-Dinitrophenol	8.167	184	26930	43.58	ppm	91
59) Dibenzofuran	8.320	168	269859	55.28	ppm	94
60) 2,4-Dinitrotoluene	8.411	165	69583	55.48	ppm	92
61) 4-Nitrophenol	8.366	109	26822	59.66	ppm	83
62) 2,3,5,6-Tetrachlorophenol	8.536	232	53826	54.94	ppm	96
63) 2,3,4,6-Tetrachlorophenol	8.610	232	53187	55.12	ppm	93
64) Fluorene	8.869	166	216782	55.69	ppm	98
65) 4-Chlorophenyl-phenyle...	8.903	204	102211	54.70	ppm	98
66) Diethylphthalate	8.854	149	203722	55.64	ppm	98
67) 4-Nitroaniline	9.005	138	59569	56.47	ppm	93
69) 4,6-Dinitro-2-methylph...	9.073	198	38509	50.59	ppm	80
70) n-Nitrosodiphenylamine	9.124	169	183350	64.48	ppm	99
71) Diphenylamine	9.124	169	183350	53.74	ppm	99
72) 1,2-Diphenylhydrazine	9.161	77	210091	53.88	ppm	98
74) 4-Bromophenyl-phenylether	9.715	248	56018	52.83	ppm	97
75) Hexachlorobenzene	9.934	284	62595	52.78	ppm	95
76) Simazine	10.085	201	31279	52.57	ppm	96
77) Atrazine	10.162	200	53703	49.49	ppm	97
78) Pentachlorophenol	10.278	266	36836	50.64	ppm	97
79) Phenanthrene	10.488	178	305217	55.37	ppm	98
80) Anthracene	10.568	178	304597	55.11	ppm	99
81) Carbazole	10.912	167	291816	56.06	ppm	99
82) Di-n-butylphthalate	11.778	149	333755	54.97	ppm	100
83) Fluoranthene	12.651	202	311482	55.87	ppm	99
85) Benzidine	12.997	184	160424	50.36	ppm	98
86) Pyrene	13.048	202	317881	55.58	ppm	99
88) Butylbenzylphthalate	14.560	149	142035	55.98	ppm	98
89) 3,3'-Dichlorobenzidine	15.404	252	101476	53.89	ppm	97
90) Benzo[a]anthracene	15.327	228	280348	55.48	ppm	99

ACCUTEST LABORATORIES FA23189

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\SU2287\
Data File : U049980.D
Acq On : 1 Apr 2015 10:09 pm
Operator : nareshj
Sample : ecc2285-50
Misc : op55483,su2287,30.0,,,1,1,soil
ALS Vial : 29 Sample Multiplier: 1

Quant Time: Apr 02 08:58:34 2015
Quant Method : C:\msdchem\2\METHODS\8270da2.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Tue Mar 31 14:48:34 2015
Response via : Initial Calibration

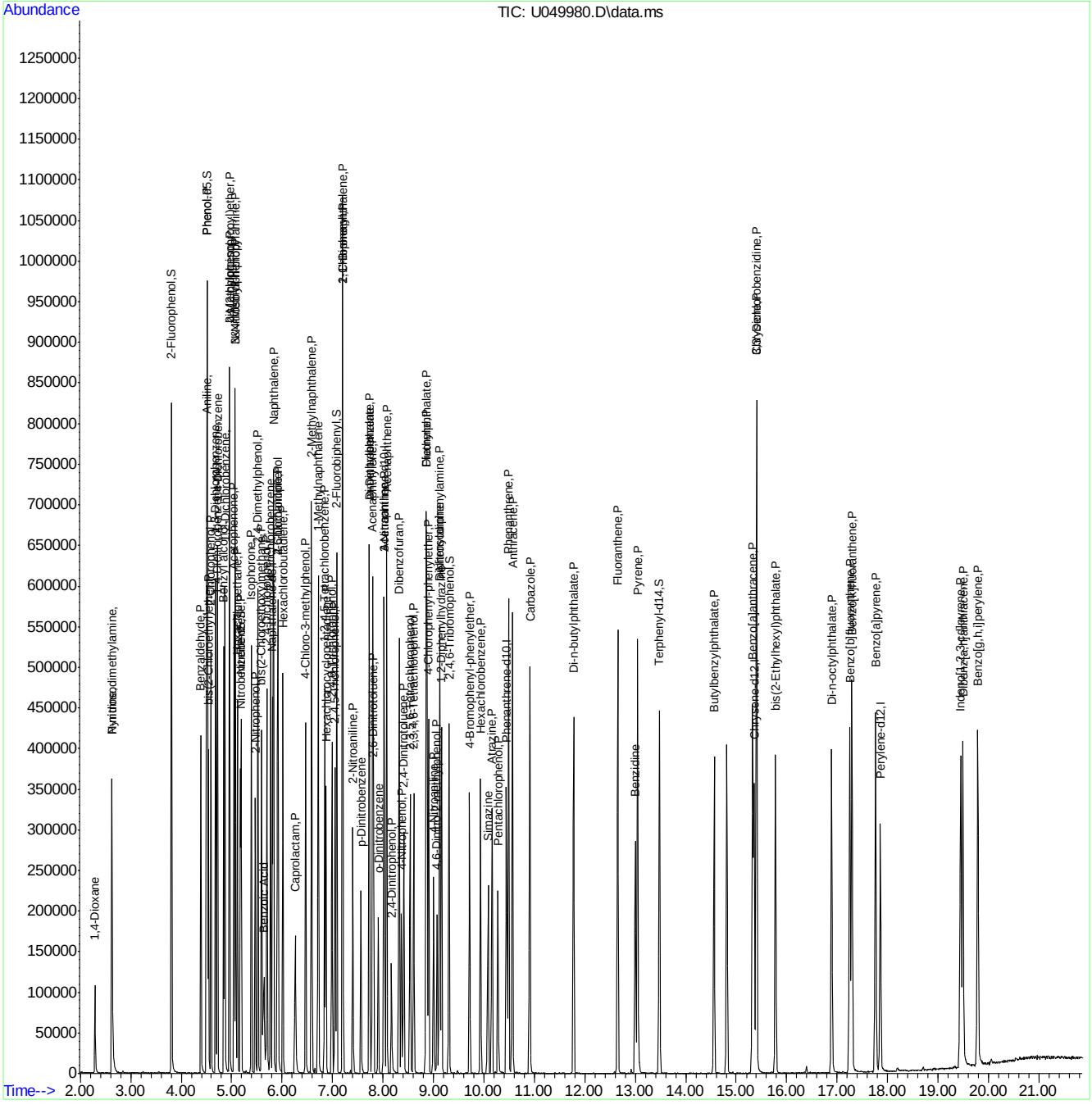
Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
91) Chrysene	15.401	228	264216	55.90 ppm	98
92) bis(2-Ethylhexyl)phtha...	15.779	149	188979	54.68 ppm	98
94) Di-n-octylphthalate	16.890	149	319385	55.95 ppm	99
95) Benzo[b]fluoranthene	17.251	252	266911	55.40 ppm	99
96) Benzo[k]fluoranthene	17.296	252	261564	57.19 ppm	100
97) Benzo[a]pyrene	17.762	252	258374	55.63 ppm	99
98) Indeno[1,2,3-cd]pyrene	19.450	276	232069	53.74 ppm	98
99) Dibenz[a,h]anthracene	19.493	278	228483	53.57 ppm	98
100) Benzo[g,h,i]perylene	19.788	276	240386	53.40 ppm	98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\SU2287\
Data File : U049980.D
Acq On : 1 Apr 2015 10:09 pm
Operator : nareshj
Sample : ecc2285-50
Misc : op55483,su2287,30.0,,,1,1,soil
ALS Vial : 29 Sample Multiplier: 1

Quant Time: Apr 02 08:58:34 2015
Quant Method : C:\msdchem\2\METHODS\8270da2.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Tue Mar 31 14:48:34 2015
Response via : Initial Calibration



ACCUTEST LABORATORIES FA23189

Manual Integration Approval Summary

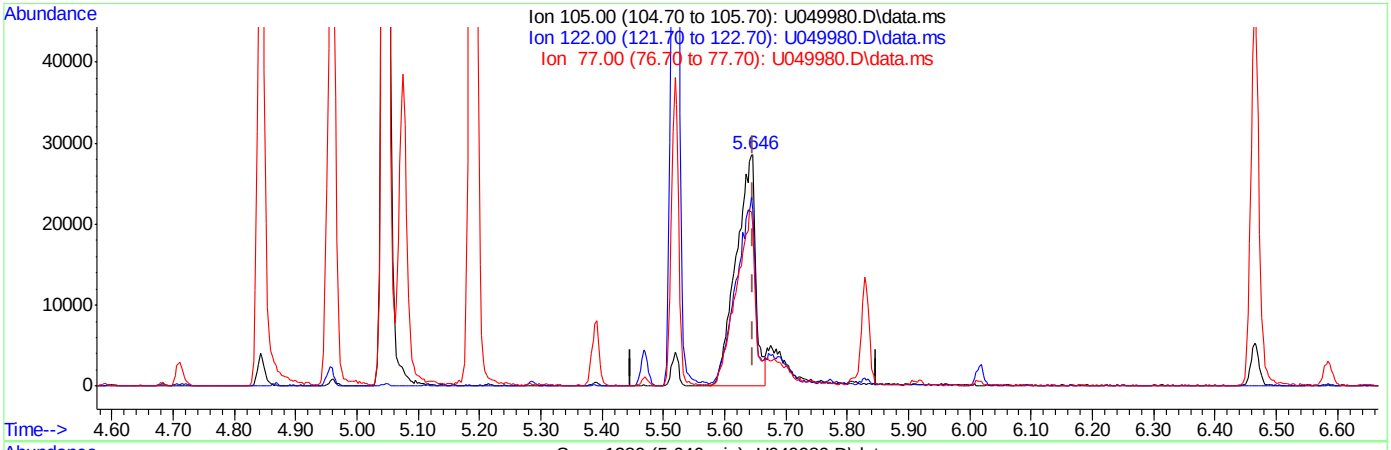
Sample Number:	SU2287-ECC2285	**Method:**	SW846 8270D
Lab FileID:	U049980.D	**Analyst approved:**	04/02/15 09:08 Naresh Jiawan
Injection Time:	04/01/15 22:09	**Supervisor approved:**	04/02/15 13:16 Mike Eger

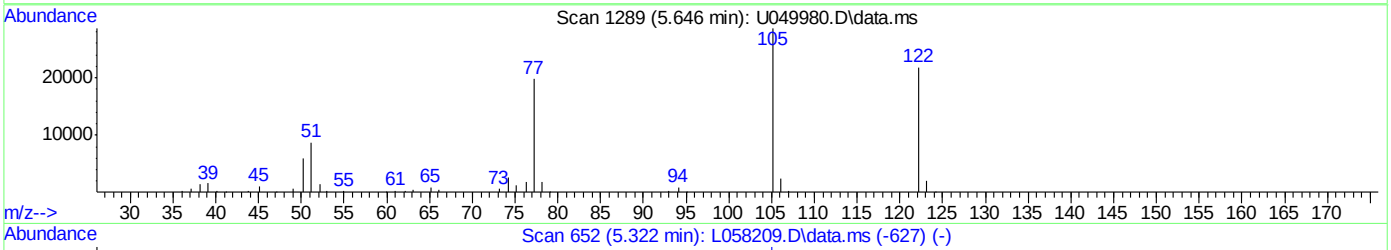
Parameter	CAS	Sig#	R.T. (min.)	Reason
Benzoic Acid	65-85-0		5.65	Split peak

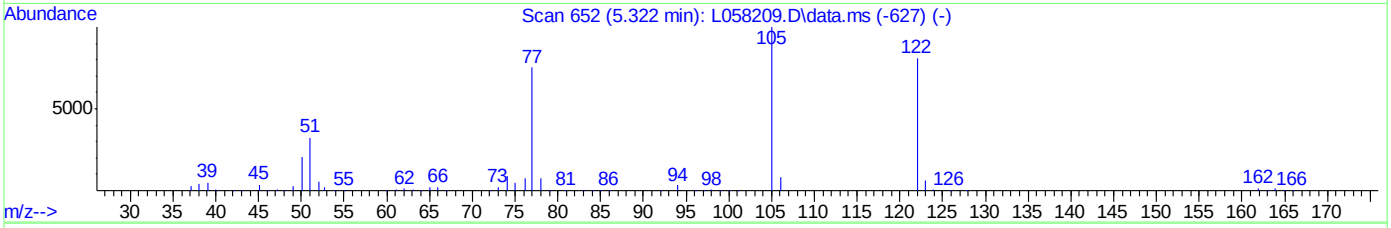
Quantitation Report (Qedit)

Data Path : C:\msdchem\2\DATA\SU2287\
Data File : U049980.D
Acq On : 1 Apr 2015 10:09 pm
Operator : nareshj
Sample : ecc2285-50
Misc : op55483,su2287,30.0,,,1,1,soil
ALS Vial : 29 Sample Multiplier: 1

Quant Time: Apr 02 08:28:59 2015
Quant Method : C:\msdchem\2\METHODS\8270da2.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Tue Mar 31 14:48:34 2015
Response via : Initial Calibration







TIC: U049980.D\data.ms

(29) Benzoic Acid

5.646min (-0.001) 42.12ppm

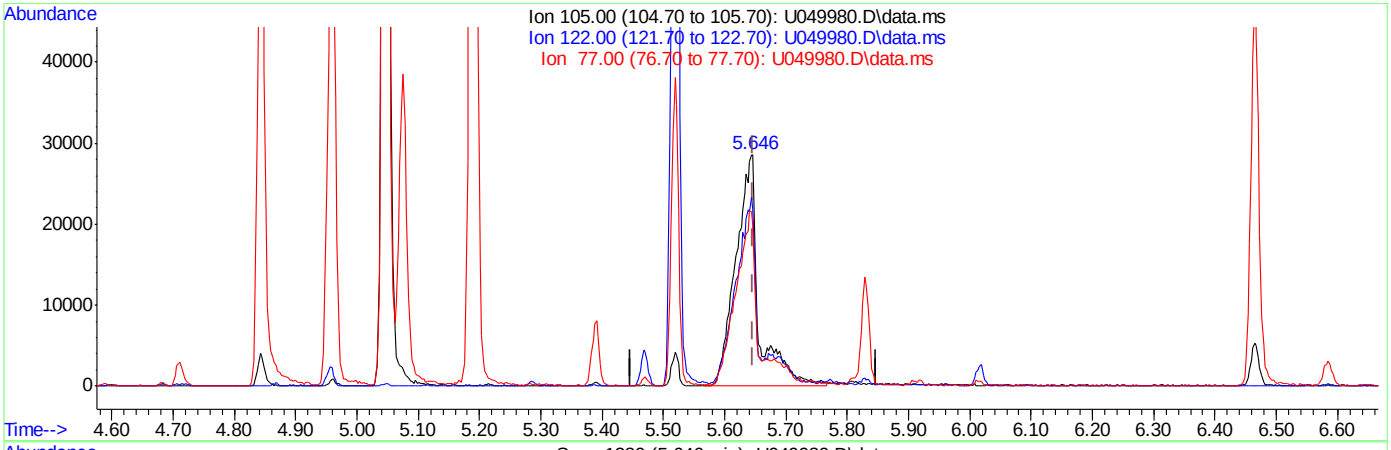
response 63936

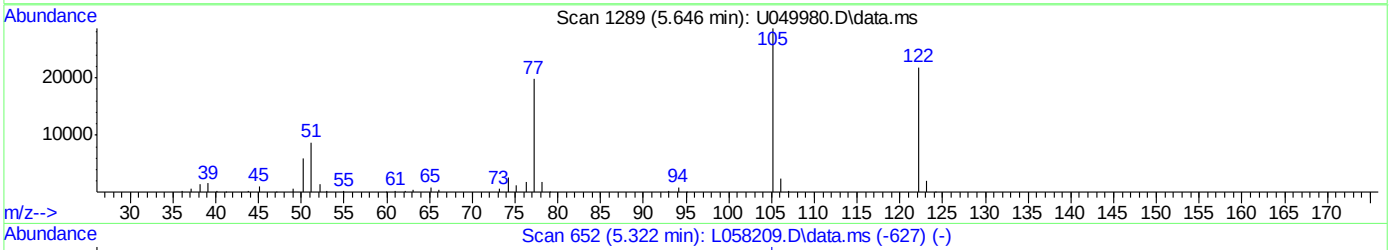
Ion	Exp%	Act%
105.00	100	100
122.00	82.20	74.08
77.00	71.80	67.25
0.00	0.00	0.00

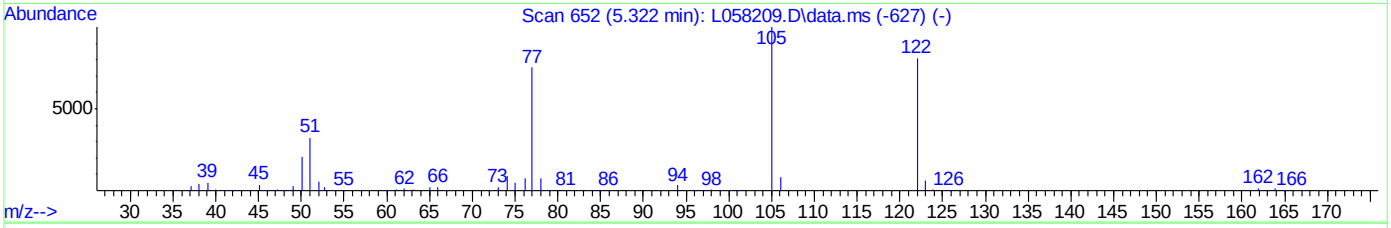
Quantitation Report (Qedit)

Data Path : C:\msdchem\2\DATA\SU2287\
Data File : U049980.D
Acq On : 1 Apr 2015 10:09 pm
Operator : nareshj
Sample : ecc2285-50
Misc : op55483,su2287,30.0,,,1,1,soil
ALS Vial : 29 Sample Multiplier: 1

Quant Time: Apr 02 08:28:59 2015
Quant Method : C:\msdchem\2\METHODS\8270da2.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Tue Mar 31 14:48:34 2015
Response via : Initial Calibration







TIC: U049980.D\data.ms

(29) Benzoic Acid

5.646min (-0.001) 50.03ppm m

response 75947

Ion	Exp%	Act%
105.00	100	100
122.00	82.20	76.18
77.00	71.80	69.14
0.00	0.00	0.00

Manual Integrations APPROVED (compounds with "m" flag)
Mike Eger
03/31/15 15:24

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\sx1826\
Data File : x039249.D
Acq On : 30 Mar 2015 3:05 pm
Operator : nareshj
Sample : ic1826-5
Misc : op55392,sx1826,1000,,,1,1,water
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Mar 31 09:18:58 2015
Quant Method : C:\msdchem\1\METHODS\8270d_0330.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Fri Mar 27 11:06:47 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	5.045	152	417411	40.00	ppm	0.00
22) Naphthalene-d8	6.142	136	1522698	40.00	ppm	0.00
41) Acenaphthene-d10	7.687	164	825312	40.00	ppm	0.00
67) Phenanthrene-d10	8.974	188	1282900	40.00	ppm	0.00
83) Chrysene-d12	11.623	240	1011153	40.00	ppm	0.00
92) Perylene-d12	13.961	264	685637	40.00	ppm	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	4.013	112	154507	10.52	ppm	0.00
Spiked Amount 100.000	Range 14 - 67		Recovery = 10.52%#			
9) Phenol-d5	4.800	99	166294	10.12	ppm	0.00
Spiked Amount 100.000	Range 10 - 50		Recovery = 10.12%			
23) Nitrobenzene-d5	5.536	82	86079	5.40	ppm	0.00
Spiked Amount 50.000	Range 42 - 108		Recovery = 10.80%#			
45) 2-Fluorobiphenyl	7.096	172	153641	5.48	ppm	0.00
Spiked Amount 50.000	Range 40 - 106		Recovery = 10.96%#			
72) 2,4,6-Tribromophenol	8.383	330	24619	8.26	ppm	0.00
Spiked Amount 100.000	Range 33 - 118		Recovery = 8.26%#			
86) Terphenyl-d14	10.415	244	118012	5.01	ppm	0.00
Spiked Amount 50.000	Range 39 - 121		Recovery = 10.02%#			
Target Compounds						Qvalue
2) 1,4-Dioxane	2.459	88	33203	4.92	ppm	88
3) N-nitrosodimethylamine	2.806	42	48987	5.94	ppm	98
4) Pyridine	2.803	79	87549	5.35	ppm	99
6) Benzaldehyde	4.684	106	68005	5.98	ppm	100
7) Aniline	4.806	93	117561	5.65	ppm #	48
8) bis(2-Chloroethyl)ether	4.857	93	74116	5.32	ppm	88
10) Phenol	4.809	94	106468	5.59	ppm	67
11) 2-Chlorophenol	4.900	128	81272	5.24	ppm	89
12) 1,3-Dichlorobenzene	5.014	146	88878	5.31	ppm	96
13) 1,4-Dichlorobenzene	5.056	146	88420	5.29	ppm	98
14) 1,2-Dichlorobenzene	5.218	146	83478	5.24	ppm	96
15) Benzyl alcohol	5.184	108	50660	5.04	ppm	92
16) 2-Methylphenol	5.306	108	72007	5.43	ppm	93
17) bis(2-chloroisopropyl)...	5.318	45	153834	6.70	ppm	79
18) Acetophenone	5.408	105	114511	5.61	ppm	98
19) N-Nitroso-di-n-propyla...	5.431	70	41060	5.66	ppm	81
20) 3&4-Methylphenol	5.431	108	76305	5.46	ppm	98
21) Hexachloroethane	5.480	117	35333	5.20	ppm	86
24) Nitrobenzene	5.553	77	84300	5.65	ppm	92
25) Isophorone	5.752	82	151987	5.61	ppm	99
26) 2-Nitrophenol	5.829	139	38727	4.78	ppm	93
27) 2,4-Dimethylphenol	5.874	107	78736	5.67	ppm	96
28) bis(2-Chloroethoxy)met...	5.954	93	86390	5.62	ppm	99
29) Benzoic Acid	5.946	105	44967m	4.45	ppm	
30) 2,4-Dichlorophenol	6.036	162	60952	5.23	ppm	96
31) 1,2,4-Trichlorobenzene	6.107	180	61922	5.14	ppm	97
32) Naphthalene	6.156	128	225417	5.84	ppm	94

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\sx1826\
Data File : x039249.D
Acq On : 30 Mar 2015 3:05 pm
Operator : nareshj
Sample : ic1826-5
Misc : op55392,sx1826,1000,,,1,1,water
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Mar 31 09:18:58 2015
Quant Method : C:\msdchem\1\METHODS\8270d_0330.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Fri Mar 27 11:06:47 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
33) 4-Chloroaniline	6.227	127	97365	5.56	ppm		97
34) 2,6-Dichlorophenol	6.036	162	60952	5.23	ppm		92
35) Hexachlorobutadiene	6.321	225	34016	5.04	ppm		98
36) Caprolactam	6.485	113	24405	5.26	ppm	#	67
37) 4-Chloro-3-methylphenol	6.656	107	65738	5.35	ppm		96
38) 2-Methylnaphthalene	6.755	142	155334	5.63	ppm		97
39) 1-Methylnaphthalene	6.852	142	134689	5.53	ppm		97
40) 1,2,4,5-Tetrachloroben...	6.940	216	59823	5.07	ppm		97
42) Hexachlorocyclopentadiene	6.963	237	32190	4.53	ppm		98
43) 2,4,6-Trichlorophenol	7.034	196	39064	5.03	ppm		95
44) 2,4,5-Trichlorophenol	7.068	196	41824	5.02	ppm		97
46) 1,1'-Biphenyl	7.173	154	182511	5.79	ppm		95
47) 2-Chloronaphthalene	7.179	162	136217	5.76	ppm		98
48) 2-Nitroaniline	7.298	65	45503	5.20	ppm		89
49) p-Dinitrobenzene	7.395	75	24980	4.70	ppm	#	86
50) Dimethylphthalate	7.488	163	146150	5.40	ppm		98
51) m-Dinitrobenzene	7.497	168	21623	4.69	ppm	#	55
52) 2,6-Dinitrotoluene	7.542	165	32178	5.06	ppm		90
53) o-Dinitrobenzene	7.599	50	30317	5.69	ppm		87
54) Acenaphthylene	7.548	152	215029	5.74	ppm		99
55) 3-Nitroaniline	7.298	138	44487	4.89	ppm	#	58
56) Acenaphthene	7.713	153	132229	5.49	ppm	#	1
57) 2,4-Dinitrophenol	7.747	184	7410	2.91	ppm		91
58) 4-Nitrophenol	7.824	109	15272	4.07	ppm	#	82
59) Dibenzofuran	7.849	168	186952	5.58	ppm		97
60) 2,4-Dinitrotoluene	7.883	165	42990	5.04	ppm		91
61) 2,3,5,6-Tetrachlorophenol	7.963	232	30588	4.73	ppm		90
62) 2,3,4,6-Tetrachlorophenol	8.000	232	31604	4.96	ppm		90
63) Diethylphthalate	8.108	149	148329	5.35	ppm		98
64) Fluorene	8.153	166	156230	5.66	ppm		96
65) 4-Chlorophenyl-phenyle...	8.156	204	66035	5.22	ppm		90
66) 4-Nitroaniline	8.199	138	29683	4.75	ppm		93
68) 4,6-Dinitro-2-methylph...	8.239	198	16564	4.02	ppm	#	31
69) Diphenylamine	8.264	169	125410	5.34	ppm		97
70) n-Nitrosodiphenylamine	8.264	169	125410	6.41	ppm		93
71) 1,2-Diphenylhydrazine	8.293	77	162241	5.73	ppm		94
73) 4-Bromophenyl-phenylether	8.582	248	33041	4.84	ppm		84
74) Hexachlorobenzene	8.710	284	30625	4.69	ppm		74
75) Simazine	8.727	201	20122	10.39	ppm		99
76) Atrazine	8.764	200	41330	5.17	ppm	#	71
77) Pentachlorophenol	8.869	266	16521	4.16	ppm		96
78) Phenanthrene	8.992	178	208527	5.62	ppm		100
79) Anthracene	9.031	178	203259	5.52	ppm		99
80) Carbazole	9.179	167	182484	5.49	ppm		99
81) Di-n-butylphthalate	9.543	149	243746	5.52	ppm		99
82) Fluoranthene	10.046	202	206883	5.44	ppm		95
84) Benzidine	10.171	184	78372	6.22	ppm		98
85) Pyrene	10.247	202	212772	5.74	ppm		92
87) Butylbenzylphthalate	10.978	149	97515	5.48	ppm		92
88) 3,3'-Dichlorobenzidine	11.597	252	33116	4.16	ppm		96

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\sx1826\
Data File : x039249.D
Acq On : 30 Mar 2015 3:05 pm
Operator : nareshj
Sample : ic1826-5
Misc : op55392,sx1826,1000,,,1,1,water
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Mar 31 09:18:58 2015
Quant Method : C:\msdchem\1\METHODS\8270d_0330.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Fri Mar 27 11:06:47 2015
Response via : Initial Calibration

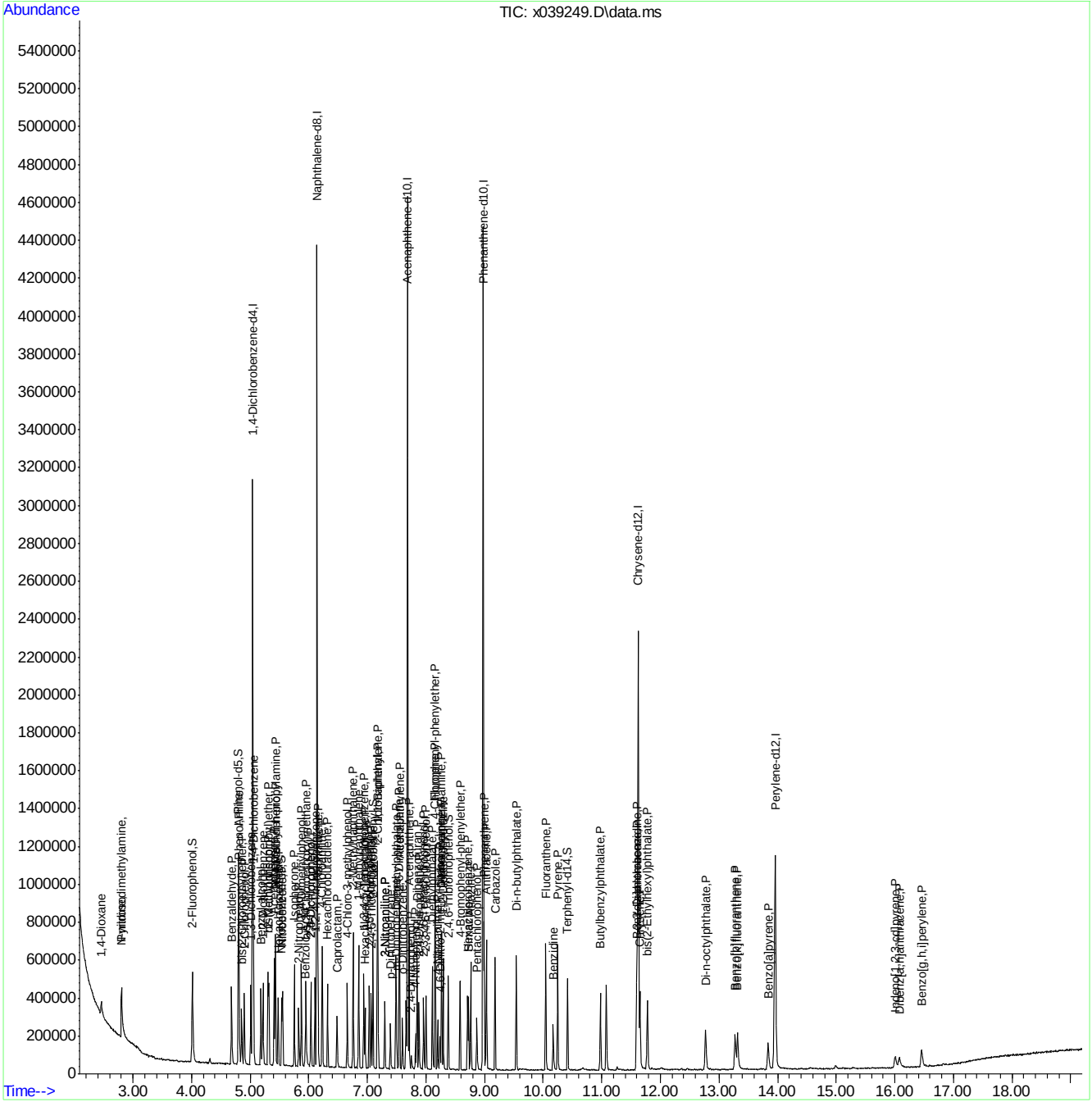
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
89) Benzo[a]anthracene	11.594	228	146537	5.12 ppm	99
90) Chrysene	11.651	228	142476	5.29 ppm	98
91) bis(2-Ethylhexyl)phtha...	11.779	149	126799	5.30 ppm	99
93) Di-n-octylphthalate	12.771	149	170651	4.77 ppm	95
94) Benzo[b]fluoranthene	13.276	252	103157	4.65 ppm	99
95) Benzo[k]fluoranthene	13.313	252	113003m	5.30 ppm	
96) Benzo[a]pyrene	13.839	252	85335	4.32 ppm	95
97) Indeno[1,2,3-cd]pyrene	16.007	276	46070	3.55 ppm	88
98) Dibenz[a,h]anthracene	16.084	278	38246	3.17 ppm	88
99) Benzo[g,h,i]perylene	16.459	276	61558	4.20 ppm	98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\sx1826\
Data File : x039249.D
Acq On : 30 Mar 2015 3:05 pm
Operator : nareshj
Sample : ic1826-5
Misc : op55392,sx1826,1000,,,1,1,water
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Mar 31 09:18:58 2015
Quant Method : C:\msdchem\1\METHODS\8270d_0330.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Fri Mar 27 11:06:47 2015
Response via : Initial Calibration



Manual Integration Approval Summary

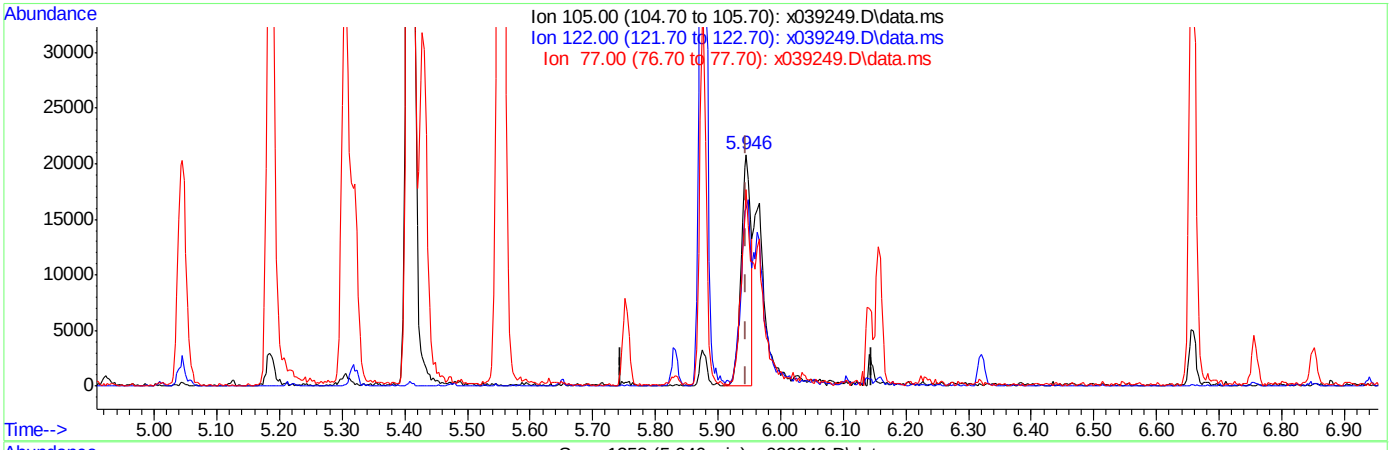
Sample Number:	SX1826-IC1826	**Method:**	SW846 8270D
Lab FileID:	X039249.D	**Analyst approved:**	03/31/15 11:22 Martha Valls
Injection Time:	03/30/15 15:05	**Supervisor approved:**	03/31/15 15:24 Mike Eger

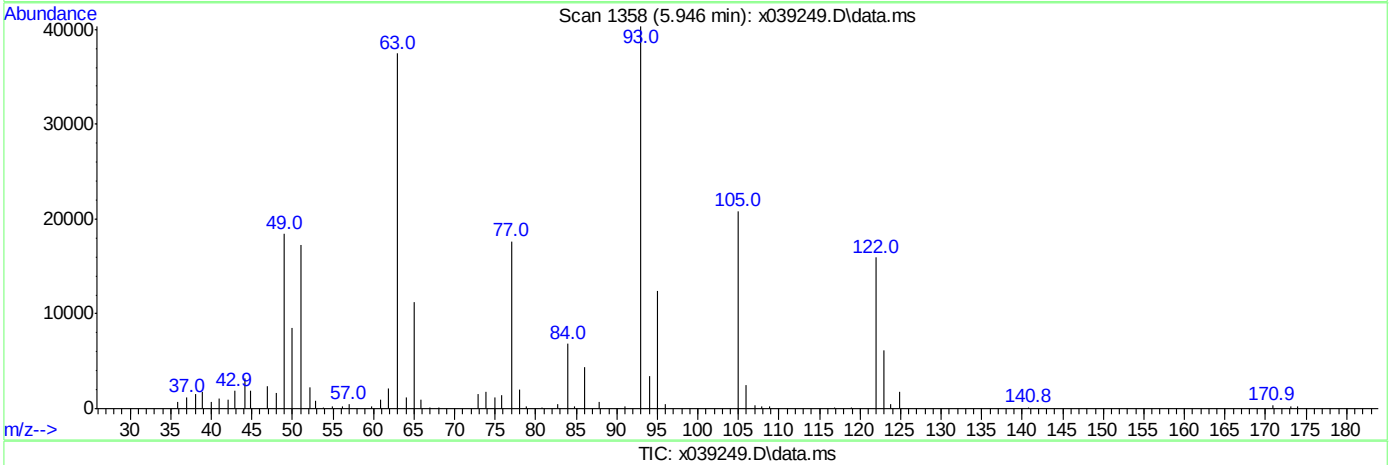
Parameter	CAS	Sig#	R.T. (min.)	Reason
Benzoic Acid	65-85-0		5.95	Split peak
Benzo(k)fluoranthene	207-08-9		13.31	Missed peak

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\sx1826\
Data File : x039249.D
Acq On : 30 Mar 2015 3:05 pm
Operator : nareshj
Sample : ic1826-5
Misc : op55392,sx1826,1000,,,1,1,water
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Mar 31 09:18:30 2015
Quant Method : C:\msdchem\1\METHODS\8270d_0330.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Fri Mar 27 11:06:47 2015
Response via : Initial Calibration





TIC: x039249.D\data.ms

(29) Benzoic Acid

5.946min (0.000) 2.20ppm

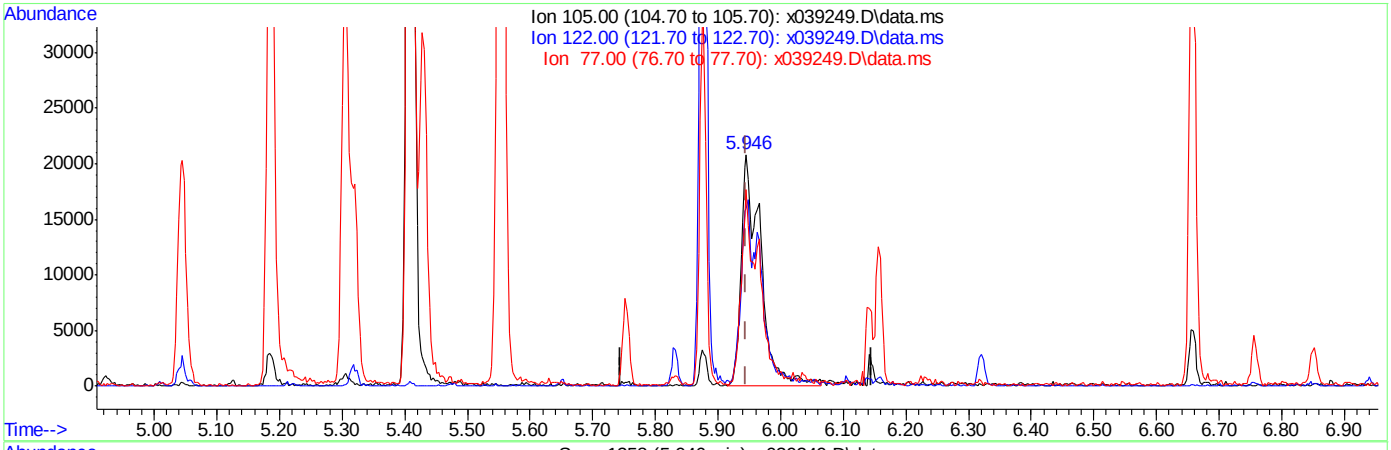
response 22205

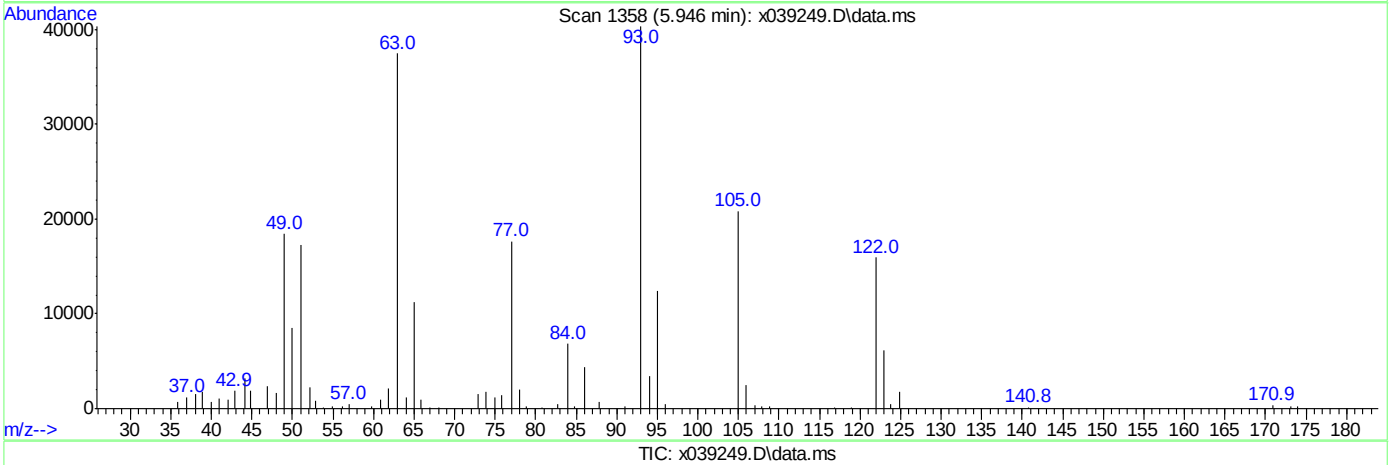
Ion	Exp%	Act%
105.00	100	100
122.00	71.80	73.21
77.00	80.10	83.68
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\sx1826\
Data File : x039249.D
Acq On : 30 Mar 2015 3:05 pm
Operator : nareshj
Sample : ic1826-5
Misc : op55392,sx1826,1000,,,1,1,water
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Mar 31 09:18:30 2015
Quant Method : C:\msdchem\1\METHODS\8270d_0330.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Fri Mar 27 11:06:47 2015
Response via : Initial Calibration





TIC: x039249.D\data.ms

(29) Benzoic Acid

5.946min (0.000) 4.45ppm m

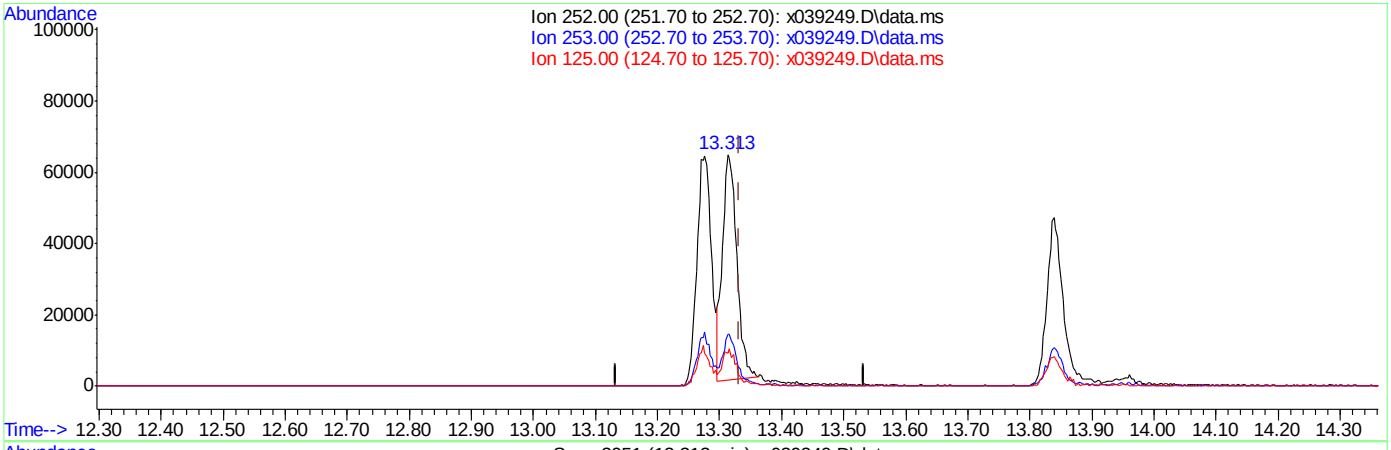
response 44967

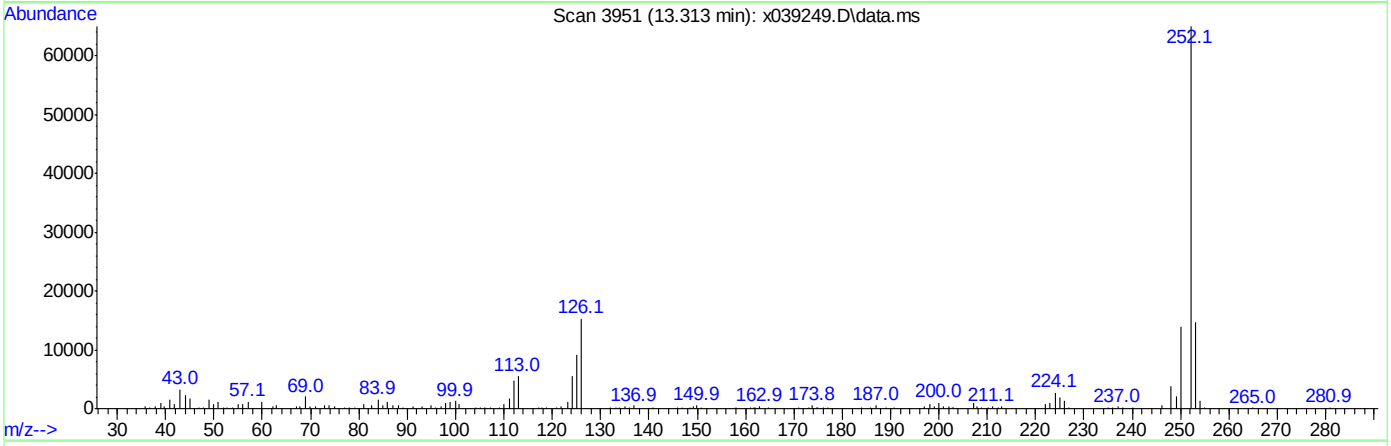
Ion	Exp%	Act%
105.00	100	100
122.00	71.80	76.57
77.00	80.10	84.80
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\sx1826\
Data File : x039249.D
Acq On : 30 Mar 2015 3:05 pm
Operator : nareshj
Sample : ic1826-5
Misc : op55392,sx1826,1000,,,1,1,water
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Mar 31 09:18:30 2015
Quant Method : C:\msdchem\1\METHODS\8270d_0330.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Fri Mar 27 11:06:47 2015
Response via : Initial Calibration





(95) Benzo[k]fluoranthene (P)

13.313min (-0.020) 4.74ppm

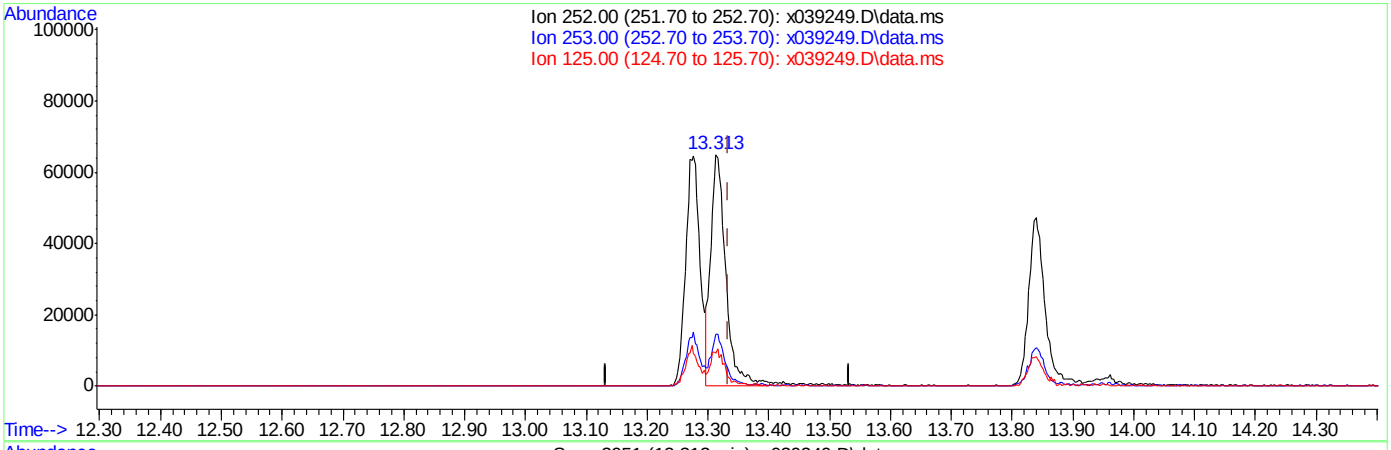
response 101096

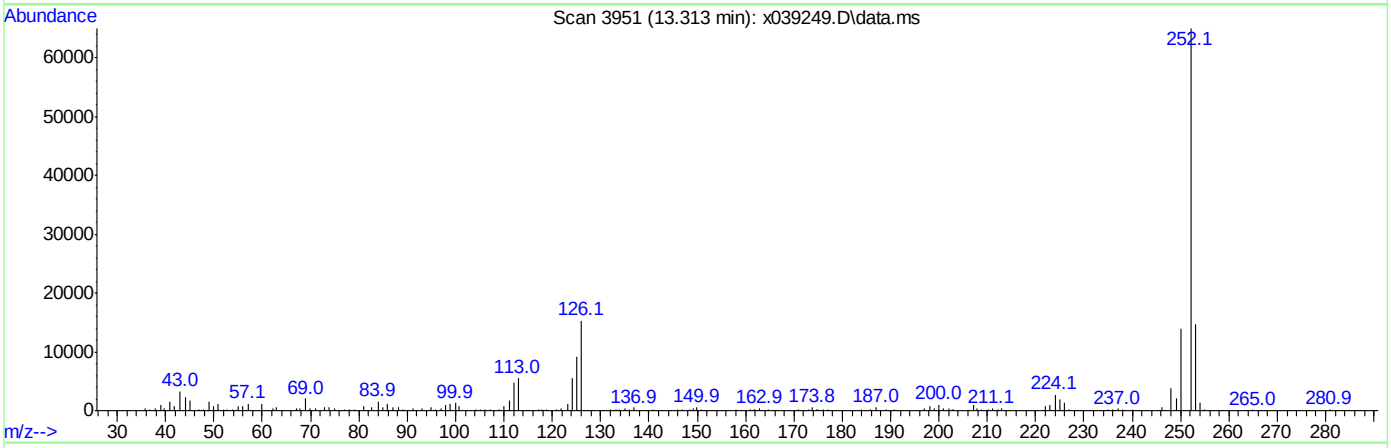
Ion	Exp%	Act%
252.00	100	100
253.00	22.30	22.68
125.00	12.70	13.74
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\sx1826\
Data File : x039249.D
Acq On : 30 Mar 2015 3:05 pm
Operator : nareshj
Sample : ic1826-5
Misc : op55392,sx1826,1000,,,1,1,water
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Mar 31 09:18:58 2015
Quant Method : C:\msdchem\1\METHODS\8270d_0330.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Fri Mar 27 11:06:47 2015
Response via : Initial Calibration





(95) Benzo[k]fluoranthene (P)

13.313min (-0.020) 5.30ppm m

response 113003

Ion	Exp%	Act%
252.00	100	100
253.00	22.30	22.67
125.00	12.70	14.14
0.00	0.00	0.00

Manual Integrations APPROVED (compounds with "m" flag)
Mike Eger
03/31/15 15:24

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\sx1826\
Data File : x039250.D
Acq On : 30 Mar 2015 3:29 pm
Operator : nareshj
Sample : ic1826-10
Misc : op55392,sx1826,1000,,,1,1,water
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Mar 31 09:19:21 2015
Quant Method : C:\msdchem\1\METHODS\8270d_0330.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Fri Mar 27 11:06:47 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	5.045	152	504708	40.00	ppm	0.00
22) Naphthalene-d8	6.142	136	1841740	40.00	ppm	0.00
41) Acenaphthene-d10	7.687	164	1034572	40.00	ppm	0.00
67) Phenanthrene-d10	8.977	188	1597516	40.00	ppm	0.00
83) Chrysene-d12	11.626	240	1325320	40.00	ppm	0.00
92) Perylene-d12	13.964	264	907149	40.00	ppm	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	4.016	112	368634	20.76	ppm	0.00
Spiked Amount 100.000	Range 14 - 67		Recovery = 20.76%			
9) Phenol-d5	4.803	99	376672	18.96	ppm	0.00
Spiked Amount 100.000	Range 10 - 50		Recovery = 18.96%			
23) Nitrobenzene-d5	5.539	82	202630	10.51	ppm	0.00
Spiked Amount 50.000	Range 42 - 108		Recovery = 21.02%#			
45) 2-Fluorobiphenyl	7.099	172	371104	10.56	ppm	0.00
Spiked Amount 50.000	Range 40 - 106		Recovery = 21.12%#			
72) 2,4,6-Tribromophenol	8.383	330	68660	18.50	ppm	0.00
Spiked Amount 100.000	Range 33 - 118		Recovery = 18.50%#			
86) Terphenyl-d14	10.415	244	306627	9.92	ppm	0.00
Spiked Amount 50.000	Range 39 - 121		Recovery = 19.84%#			
Target Compounds						Qvalue
2) 1,4-Dioxane	2.470	88	76197	9.34	ppm	78
3) N-nitrosodimethylamine	2.817	42	106205	10.65	ppm	92
4) Pyridine	2.803	79	201672	10.19	ppm	90
6) Benzaldehyde	4.687	106	164814	11.99	ppm	99
7) Aniline	4.806	93	276405	10.98	ppm	58
8) bis(2-Chloroethyl)ether	4.857	93	175628	10.43	ppm	87
10) Phenol	4.812	94	248743	10.81	ppm	62
11) 2-Chlorophenol	4.900	128	195605	10.43	ppm	91
12) 1,3-Dichlorobenzene	5.014	146	205976	10.18	ppm	96
13) 1,4-Dichlorobenzene	5.059	146	208885	10.34	ppm	100
14) 1,2-Dichlorobenzene	5.218	146	198169	10.29	ppm	97
15) Benzyl alcohol	5.187	108	128140	10.54	ppm	95
16) 2-Methylphenol	5.306	108	173636	10.82	ppm	94
17) bis(2-chloroisopropyl)...	5.320	45	344477	12.41	ppm	82
18) Acetophenone	5.411	105	264390	10.71	ppm	98
19) N-Nitroso-di-n-propyla...	5.434	70	90655	10.34	ppm	90
20) 3&4-Methylphenol	5.431	108	178939	10.59	ppm	98
21) Hexachloroethane	5.482	117	84388	10.27	ppm	81
24) Nitrobenzene	5.556	77	194807	10.79	ppm	94
25) Isophorone	5.755	82	362214	11.05	ppm	99
26) 2-Nitrophenol	5.832	139	99658	10.18	ppm	96
27) 2,4-Dimethylphenol	5.877	107	187850	11.18	ppm	92
28) bis(2-Chloroethoxy)met...	5.954	93	205247	11.05	ppm	97
29) Benzoic Acid	5.963	105	127059m	10.39	ppm	
30) 2,4-Dichlorophenol	6.039	162	150580	10.69	ppm	96
31) 1,2,4-Trichlorobenzene	6.107	180	150838	10.34	ppm	99
32) Naphthalene	6.159	128	528362	11.32	ppm	94

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\sx1826\
Data File : x039250.D
Acq On : 30 Mar 2015 3:29 pm
Operator : nareshj
Sample : ic1826-10
Misc : op55392,sx1826,1000,,,1,1,water
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Mar 31 09:19:21 2015
Quant Method : C:\msdchem\1\METHODS\8270d_0330.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Fri Mar 27 11:06:47 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
33) 4-Chloroaniline	6.227	127	233463	11.02	ppm		96
34) 2,6-Dichlorophenol	6.039	162	150580	10.69	ppm		92
35) Hexachlorobutadiene	6.323	225	81584	10.00	ppm		99
36) Caprolactam	6.500	113	59509	10.59	ppm	#	66
37) 4-Chloro-3-methylphenol	6.659	107	159466	10.72	ppm		94
38) 2-Methylnaphthalene	6.758	142	371849	11.14	ppm		99
39) 1-Methylnaphthalene	6.852	142	320320	10.87	ppm		95
40) 1,2,4,5-Tetrachloroben...	6.943	216	149196	10.45	ppm		98
42) Hexachlorocyclopentadiene	6.963	237	86467	9.71	ppm		96
43) 2,4,6-Trichlorophenol	7.034	196	99561	10.23	ppm		97
44) 2,4,5-Trichlorophenol	7.071	196	105883	10.13	ppm		96
46) 1,1'-Biphenyl	7.173	154	426803	10.80	ppm		98
47) 2-Chloronaphthalene	7.182	162	318668	10.76	ppm		98
48) 2-Nitroaniline	7.301	65	114288	10.43	ppm		91
49) p-Dinitrobenzene	7.398	75	66205	9.94	ppm	#	86
50) Dimethylphthalate	7.491	163	359850	10.60	ppm		99
51) m-Dinitrobenzene	7.497	168	57608	9.97	ppm	#	69
52) 2,6-Dinitrotoluene	7.548	165	82767	10.39	ppm		93
53) o-Dinitrobenzene	7.602	50	71833	10.75	ppm		86
54) Acenaphthylene	7.551	152	514948	10.97	ppm		99
55) 3-Nitroaniline	7.301	138	114910	10.08	ppm	#	59
56) Acenaphthene	7.713	153	323520	10.71	ppm	#	1
57) 2,4-Dinitrophenol	7.750	184	28117	8.80	ppm		94
58) 4-Nitrophenol	7.824	109	40861	8.68	ppm		86
59) Dibenzofuran	7.852	168	462223	11.01	ppm		92
60) 2,4-Dinitrotoluene	7.886	165	108419	10.14	ppm		97
61) 2,3,5,6-Tetrachlorophenol	7.963	232	80502	9.92	ppm		94
62) 2,3,4,6-Tetrachlorophenol	8.003	232	77525	9.70	ppm		89
63) Diethylphthalate	8.111	149	367466	10.58	ppm		98
64) Fluorene	8.153	166	372815	10.78	ppm		99
65) 4-Chlorophenyl-phenyle...	8.156	204	159244	10.04	ppm		85
66) 4-Nitroaniline	8.202	138	72738	9.28	ppm		93
68) 4,6-Dinitro-2-methylph...	8.241	198	48303	9.42	ppm	#	46
69) Diphenylamine	8.267	169	309248	10.57	ppm		99
70) n-Nitrosodiphenylamine	8.267	169	309248	12.69	ppm		95
71) 1,2-Diphenylhydrazine	8.293	77	382364	10.84	ppm		95
73) 4-Bromophenyl-phenylether	8.582	248	84506	9.95	ppm		85
74) Hexachlorobenzene	8.710	284	79022	9.71	ppm		85
75) Simazine	8.733	201	50721	21.03	ppm		97
76) Atrazine	8.767	200	99818	10.02	ppm	#	70
77) Pentachlorophenol	8.869	266	48490	9.80	ppm		97
78) Phenanthrene	8.994	178	500300	10.82	ppm		99
79) Anthracene	9.031	178	506361	11.05	ppm		99
80) Carbazole	9.179	167	465342	11.24	ppm		99
81) Di-n-butylphthalate	9.543	149	610314	11.10	ppm		100
82) Fluoranthene	10.049	202	518845	10.95	ppm		97
84) Benzidine	10.171	184	184133	11.15	ppm		99
85) Pyrene	10.250	202	527104	10.85	ppm		96
87) Butylbenzylphthalate	10.978	149	242664	10.40	ppm		92
88) 3,3'-Dichlorobenzidine	11.597	252	91128	8.74	ppm		94

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\sx1826\
Data File : x039250.D
Acq On : 30 Mar 2015 3:29 pm
Operator : nareshj
Sample : ic1826-10
Misc : op55392,sx1826,1000,,,1,1,water
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Mar 31 09:19:21 2015
Quant Method : C:\msdchem\1\METHODS\8270d_0330.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Fri Mar 27 11:06:47 2015
Response via : Initial Calibration

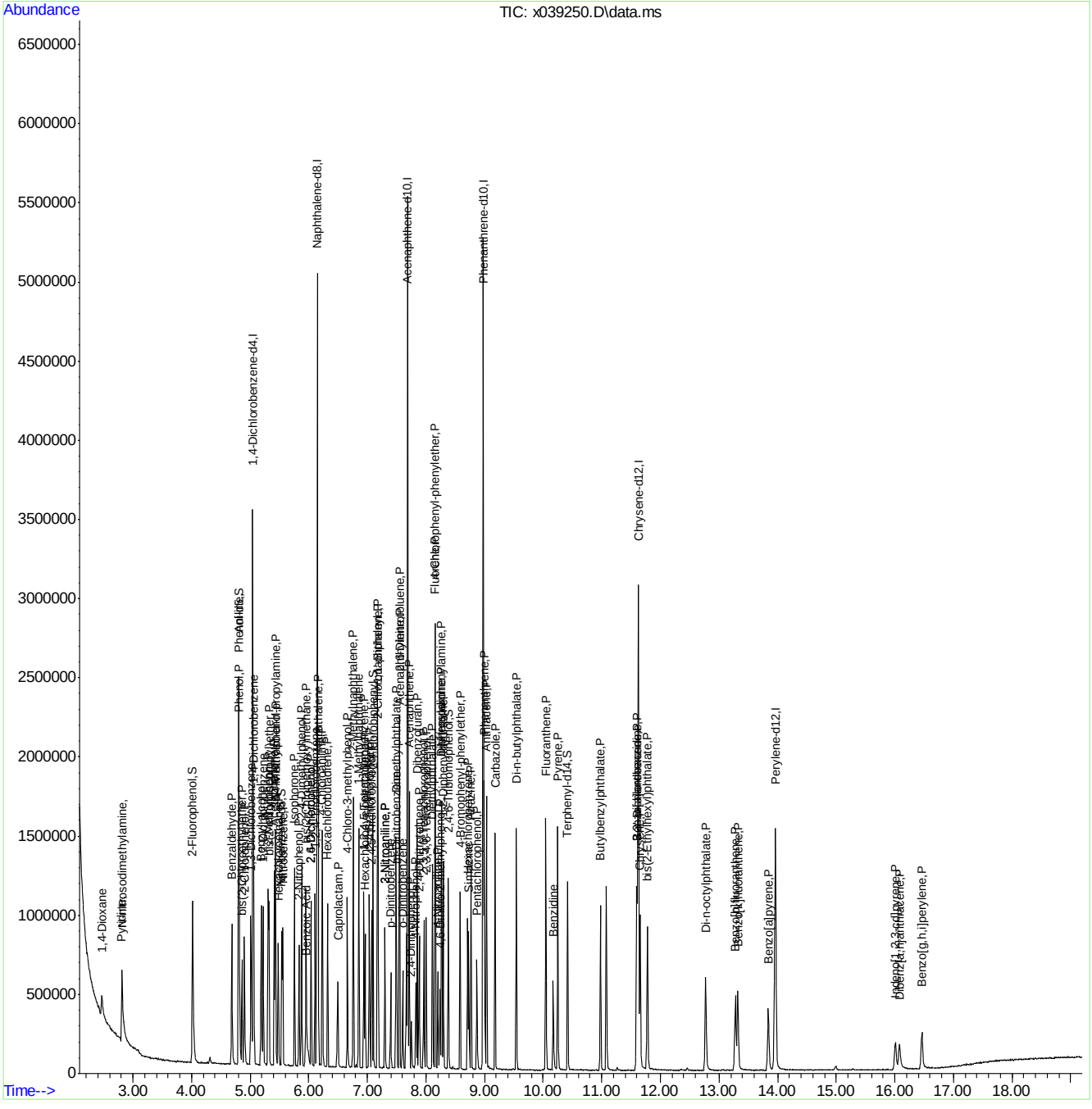
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
89) Benzo[a]anthracene	11.597	228	372699	9.93 ppm	98
90) Chrysene	11.654	228	366824	10.39 ppm	99
91) bis(2-Ethylhexyl)phtha...	11.779	149	321188	10.23 ppm	99
93) Di-n-octylphthalate	12.771	149	464837	9.82 ppm	94
94) Benzo[b]fluoranthene	13.279	252	281304	9.58 ppm	97
95) Benzo[k]fluoranthene	13.319	252	288245	10.21 ppm	95
96) Benzo[a]pyrene	13.842	252	236471	9.05 ppm	94
97) Indeno[1,2,3-cd]pyrene	16.010	276	130715	7.61 ppm	94
98) Dibenz[a,h]anthracene	16.084	278	116042	7.27 ppm	95
99) Benzo[g,h,i]perylene	16.462	276	164577	8.49 ppm	91

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\sx1826\
Data File : x039250.D
Acq On : 30 Mar 2015 3:29 pm
Operator : nareshj
Sample : ic1826-10
Misc : op55392,sx1826,1000,,,1,1,water
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Mar 31 09:19:21 2015
Quant Method : C:\msdchem\1\METHODS\8270d_0330.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Fri Mar 27 11:06:47 2015
Response via : Initial Calibration



ACCUTEST LABORATORIES FA23189

Manual Integration Approval Summary

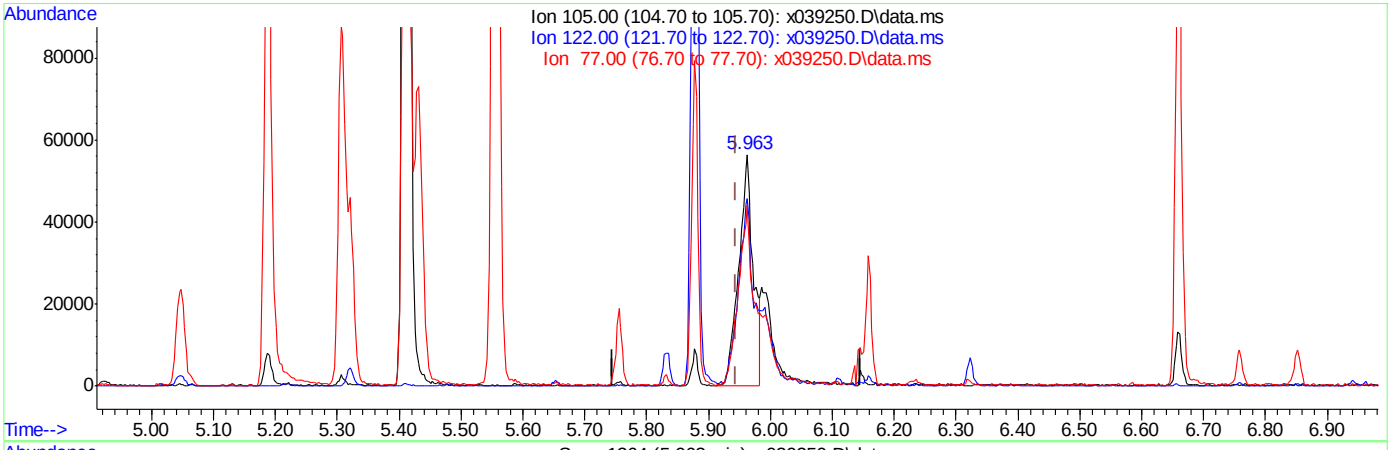
Sample Number:	SX1826-IC1826	**Method:**	SW846 8270D
Lab FileID:	X039250.D	**Analyst approved:**	03/31/15 11:22 Martha Valls
Injection Time:	03/30/15 15:29	**Supervisor approved:**	03/31/15 15:24 Mike Eger

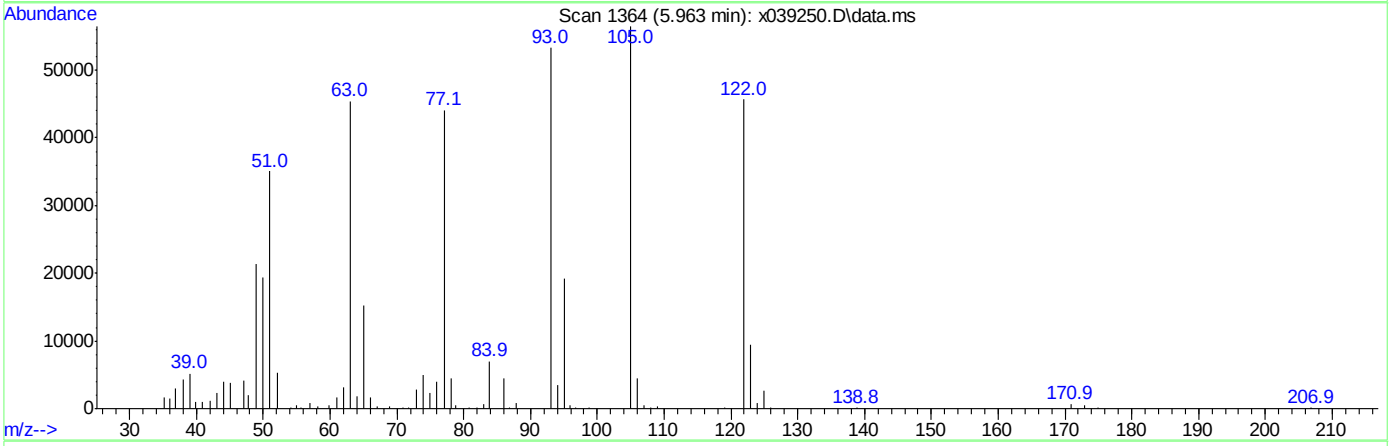
Parameter	CAS	Sig#	R.T. (min.)	Reason
Benzoic Acid	65-85-0		5.96	Split peak

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\sx1826\
Data File : x039250.D
Acq On : 30 Mar 2015 3:29 pm
Operator : nareshj
Sample : ic1826-10
Misc : op55392,sx1826,1000,,,1,1,water
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Mar 31 09:19:14 2015
Quant Method : C:\msdchem\1\METHODS\8270d_0330.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Fri Mar 27 11:06:47 2015
Response via : Initial Calibration





TIC: x039250.D\data.ms

(29) Benzoic Acid

5.963min (+0.017) 7.52ppm

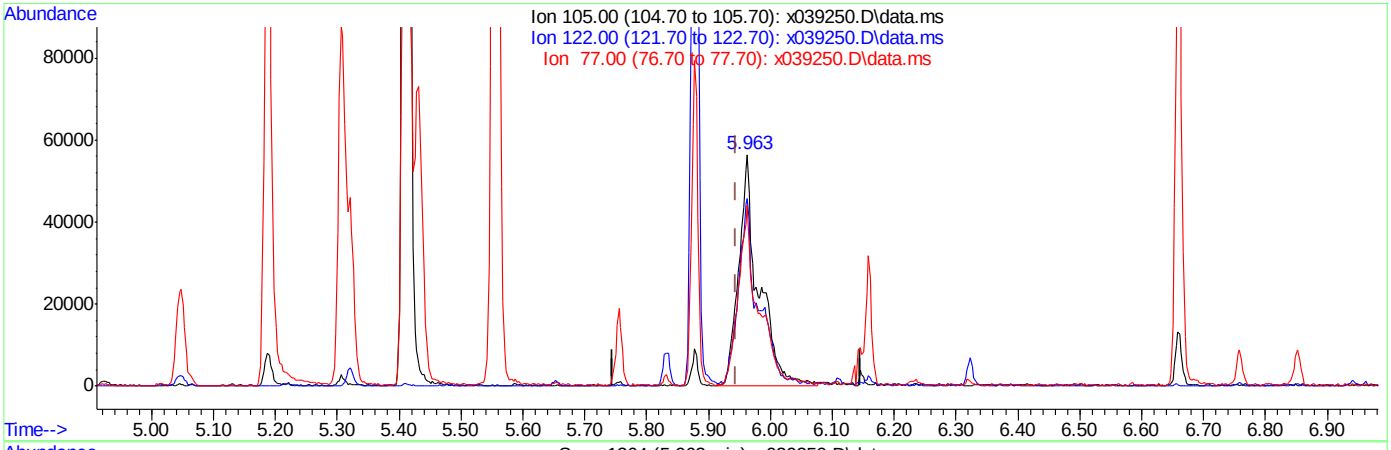
response 91902

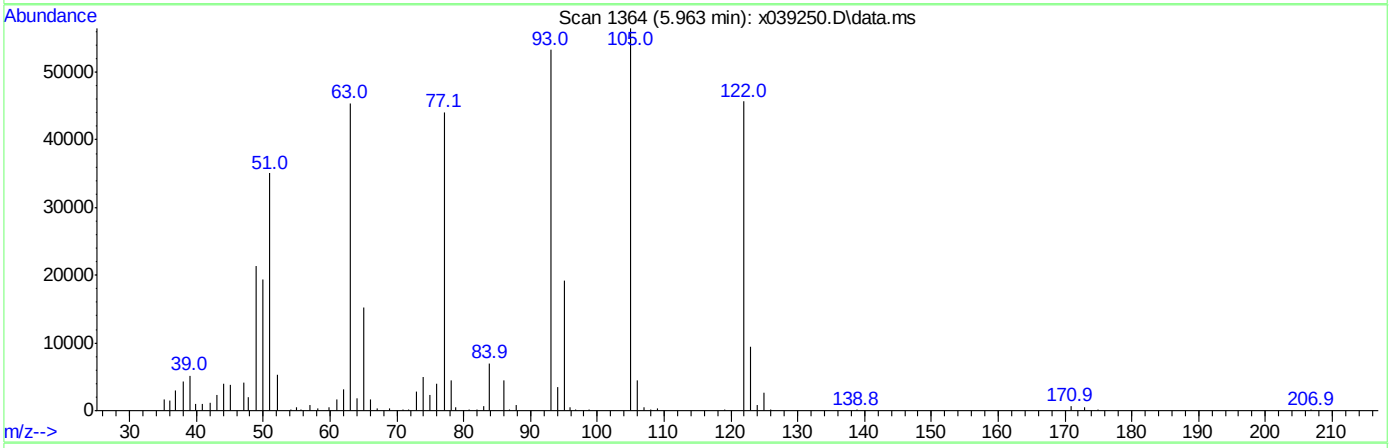
Ion	Exp%	Act%
105.00	100	100
122.00	71.80	78.51
77.00	80.10	76.62
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\sx1826\
Data File : x039250.D
Acq On : 30 Mar 2015 3:29 pm
Operator : nareshj
Sample : ic1826-10
Misc : op55392,sx1826,1000,,,1,1,water
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Mar 31 09:19:14 2015
Quant Method : C:\msdchem\1\METHODS\8270d_0330.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Fri Mar 27 11:06:47 2015
Response via : Initial Calibration





TIC: x039250.D\data.ms

(29) Benzoic Acid

5.963min (+0.017) 10.39ppm m

response 127059

Ion	Exp%	Act%
105.00	100	100
122.00	71.80	80.83
77.00	80.10	78.01
0.00	0.00	0.00

Manual Integrations APPROVED (compounds with "m" flag)
Mike Eger
03/31/15 15:24

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\sx1826\
Data File : x039251.D
Acq On : 30 Mar 2015 3:54 pm
Operator : nareshj
Sample : ic1826-25
Misc : op55392,sx1826,1000,,,1,1,water
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Mar 31 09:20:16 2015
Quant Method : C:\msdchem\1\METHODS\8270d_0330.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Fri Mar 27 11:06:47 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	5.045	152	325288	40.00	ppm	0.00
22) Naphthalene-d8	6.142	136	1258385	40.00	ppm	0.00
41) Acenaphthene-d10	7.687	164	670558	40.00	ppm	0.00
67) Phenanthrene-d10	8.975	188	1035713	40.00	ppm	0.00
83) Chrysene-d12	11.623	240	919264	40.00	ppm	0.00
92) Perylene-d12	13.961	264	604750	40.00	ppm	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	4.011	112	592180	51.75	ppm	0.00
Spiked Amount 100.000	Range 14 - 67		Recovery = 51.75%			
9) Phenol-d5	4.800	99	601025	46.93	ppm	0.00
Spiked Amount 100.000	Range 10 - 50		Recovery = 46.93%			
23) Nitrobenzene-d5	5.539	82	331187	25.13	ppm	0.00
Spiked Amount 50.000	Range 42 - 108		Recovery = 50.26%			
45) 2-Fluorobiphenyl	7.099	172	570130	25.04	ppm	0.00
Spiked Amount 50.000	Range 40 - 106		Recovery = 50.08%			
72) 2,4,6-Tribromophenol	8.386	330	109284	45.42	ppm	0.00
Spiked Amount 100.000	Range 33 - 118		Recovery = 45.42%			
86) Terphenyl-d14	10.418	244	503988	23.52	ppm	0.00
Spiked Amount 50.000	Range 39 - 121		Recovery = 47.04%			
Target Compounds						Qvalue
2) 1,4-Dioxane	2.439	88	123601	23.51	ppm	78
3) N-nitrosodimethylamine	2.786	42	194329	30.23	ppm	96
4) Pyridine	2.775	79	337685	26.47	ppm	94
6) Benzaldehyde	4.681	106	251615	28.41	ppm	98
7) Aniline	4.803	93	432348	26.66	ppm	70
8) bis(2-Chloroethyl)ether	4.854	93	280186	25.82	ppm	87
10) Phenol	4.812	94	389066	26.22	ppm	81
11) 2-Chlorophenol	4.900	128	312167	25.82	ppm	95
12) 1,3-Dichlorobenzene	5.014	146	333044	25.54	ppm	98
13) 1,4-Dichlorobenzene	5.056	146	333383	25.59	ppm	98
14) 1,2-Dichlorobenzene	5.218	146	318949	25.69	ppm	97
15) Benzyl alcohol	5.187	108	199035	25.40	ppm	95
16) 2-Methylphenol	5.306	108	270917	26.20	ppm	93
17) bis(2-chloroisopropyl)...	5.320	45	536197	29.98	ppm	83
18) Acetophenone	5.411	105	405473	25.48	ppm	99
19) N-Nitroso-di-n-propyla...	5.434	70	166397	29.43	ppm	87
20) 3&4-Methylphenol	5.431	108	285766	26.25	ppm	97
21) Hexachloroethane	5.480	117	136012	25.68	ppm	80
24) Nitrobenzene	5.553	77	311781	25.28	ppm	95
25) Isophorone	5.755	82	567741	25.34	ppm	99
26) 2-Nitrophenol	5.832	139	160177	23.94	ppm	97
27) 2,4-Dimethylphenol	5.877	107	291831	25.43	ppm	93
28) bis(2-Chloroethoxy)met...	5.954	93	325902	25.67	ppm	97
29) Benzoic Acid	5.982	105	227758m	27.27	ppm	
30) 2,4-Dichlorophenol	6.036	162	235594	24.47	ppm	96
31) 1,2,4-Trichlorobenzene	6.107	180	237740	23.86	ppm	97
32) Naphthalene	6.159	128	827504	25.94	ppm	94

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\sx1826\
Data File : x039251.D
Acq On : 30 Mar 2015 3:54 pm
Operator : nareshj
Sample : ic1826-25
Misc : op55392,sx1826,1000,,,1,1,water
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Mar 31 09:20:16 2015
Quant Method : C:\msdchem\1\METHODS\8270d_0330.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Fri Mar 27 11:06:47 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
33) 4-Chloroaniline	6.227	127	368429	25.46	ppm		96
34) 2,6-Dichlorophenol	6.036	162	235594	24.47	ppm		92
35) Hexachlorobutadiene	6.323	225	132745	23.81	ppm		97
36) Caprolactam	6.508	113	94281	24.57	ppm	#	66
37) 4-Chloro-3-methylphenol	6.662	107	260434	25.63	ppm		99
38) 2-Methylnaphthalene	6.758	142	569454	24.98	ppm		97
39) 1-Methylnaphthalene	6.852	142	505637	25.11	ppm		96
40) 1,2,4,5-Tetrachloroben...	6.943	216	226128	23.18	ppm		97
42) Hexachlorocyclopentadiene	6.963	237	147640	25.59	ppm		99
43) 2,4,6-Trichlorophenol	7.034	196	153362	24.32	ppm		96
44) 2,4,5-Trichlorophenol	7.071	196	167091	24.66	ppm		100
46) 1,1'-Biphenyl	7.176	154	657594	25.67	ppm		97
47) 2-Chloronaphthalene	7.182	162	488010	25.41	ppm		97
48) 2-Nitroaniline	7.301	65	184528	25.98	ppm		90
49) p-Dinitrobenzene	7.398	75	112795	26.14	ppm		86
50) Dimethylphthalate	7.491	163	558552	25.38	ppm		100
51) m-Dinitrobenzene	7.500	168	91670	24.48	ppm	#	58
52) 2,6-Dinitrotoluene	7.548	165	128690	24.93	ppm		91
53) o-Dinitrobenzene	7.605	50	118048	27.25	ppm		87
54) Acenaphthylene	7.551	152	804647	26.45	ppm		98
55) 3-Nitroaniline	7.301	138	186187	25.20	ppm	#	61
56) Acenaphthene	7.716	153	509351	26.01	ppm	#	1
57) 2,4-Dinitrophenol	7.753	184	62298	30.09	ppm		96
58) 4-Nitrophenol	7.827	109	79853	26.18	ppm	#	87
59) Dibenzofuran	7.852	168	717267	26.36	ppm		92
60) 2,4-Dinitrotoluene	7.886	165	175604	25.33	ppm		93
61) 2,3,5,6-Tetrachlorophenol	7.963	232	126036	23.96	ppm		91
62) 2,3,4,6-Tetrachlorophenol	8.003	232	125785	24.28	ppm		90
63) Diethylphthalate	8.114	149	581587	25.83	ppm		99
64) Fluorene	8.156	166	568617	25.37	ppm		99
65) 4-Chlorophenyl-phenyle...	8.159	204	253268	24.63	ppm		90
66) 4-Nitroaniline	8.207	138	142631	28.09	ppm		89
68) 4,6-Dinitro-2-methylph...	8.244	198	92810	27.92	ppm		82
69) Diphenylamine	8.270	169	482314	25.44	ppm		99
70) n-Nitrosodiphenylamine	8.270	169	482314	30.52	ppm		95
71) 1,2-Diphenylhydrazine	8.295	77	610596	26.70	ppm		95
73) 4-Bromophenyl-phenylether	8.582	248	129730	23.56	ppm		85
74) Hexachlorobenzene	8.710	284	120877	22.92	ppm		79
75) Simazine	8.736	201	81127	51.88	ppm		96
76) Atrazine	8.770	200	151791	23.50	ppm	#	74
77) Pentachlorophenol	8.869	266	80969	25.23	ppm		100
78) Phenanthrene	8.994	178	778061	25.97	ppm		98
79) Anthracene	9.034	178	776288	26.13	ppm		99
80) Carbazole	9.182	167	744715	27.74	ppm		96
81) Di-n-butylphthalate	9.543	149	945513	26.53	ppm		99
82) Fluoranthene	10.046	202	797398	25.95	ppm		95
84) Benzidine	10.171	184	366047	31.95	ppm		99
85) Pyrene	10.250	202	847482	25.16	ppm		95
87) Butylbenzylphthalate	10.978	149	402865	24.90	ppm		93
88) 3,3'-Dichlorobenzidine	11.600	252	186417	25.76	ppm		98

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\sx1826\
Data File : x039251.D
Acq On : 30 Mar 2015 3:54 pm
Operator : nareshj
Sample : ic1826-25
Misc : op55392,sx1826,1000,,,1,1,water
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Mar 31 09:20:16 2015
Quant Method : C:\msdchem\1\METHODS\8270d_0330.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Fri Mar 27 11:06:47 2015
Response via : Initial Calibration

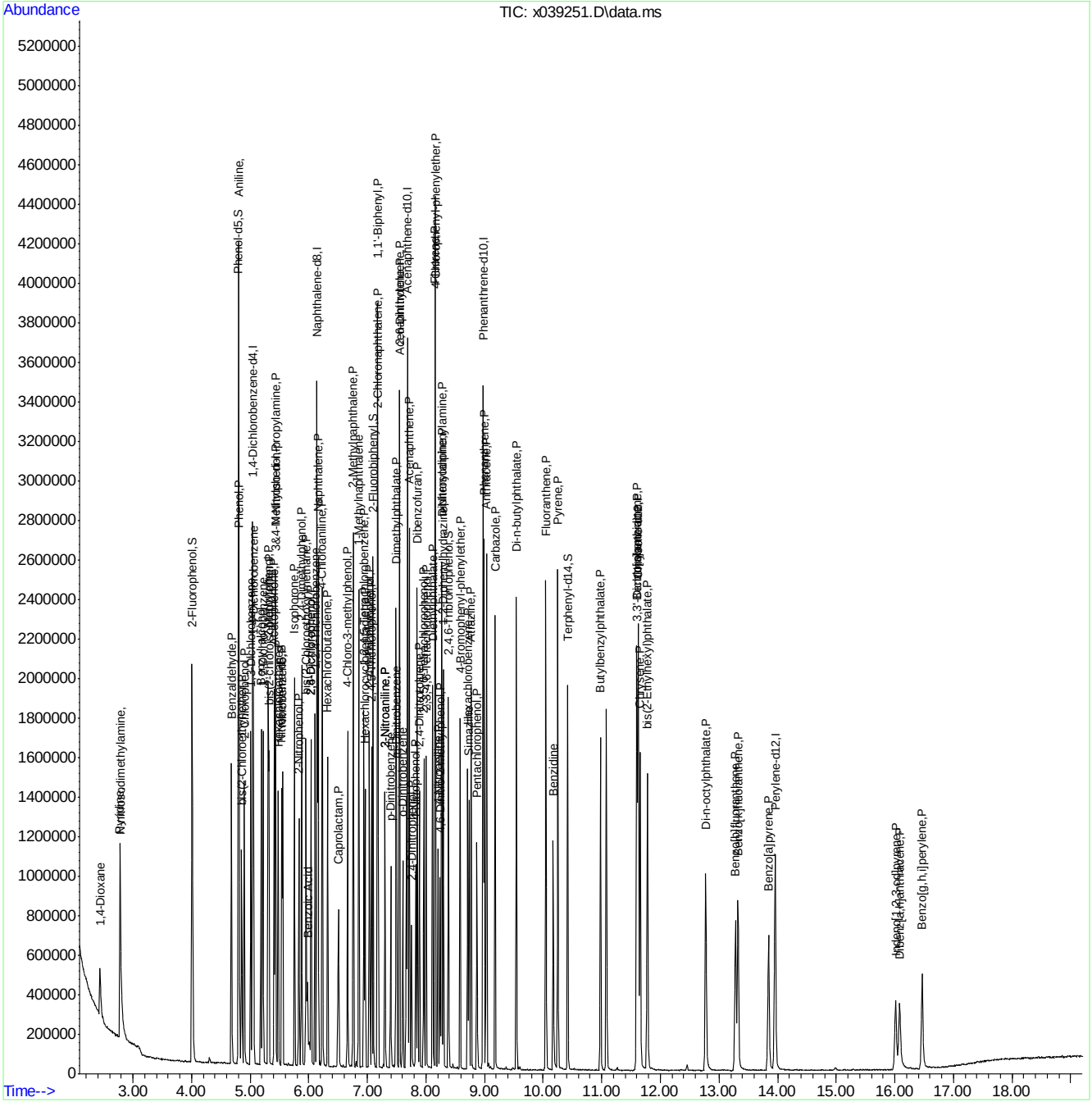
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
89) Benzo[a]anthracene	11.597	228	652845	25.07 ppm	100
90) Chrysene	11.654	228	607891	24.83 ppm	98
91) bis(2-Ethylhexyl)phtha...	11.779	149	526618	24.19 ppm	98
93) Di-n-octylphthalate	12.774	149	787696	24.95 ppm	94
94) Benzo[b]fluoranthene	13.282	252	479184	24.48 ppm	96
95) Benzo[k]fluoranthene	13.325	252	496172	26.38 ppm	97
96) Benzo[a]pyrene	13.845	252	429922	24.68 ppm	95
97) Indeno[1,2,3-cd]pyrene	16.016	276	262435	22.92 ppm	88
98) Dibenz[a,h]anthracene	16.084	278	236189	22.18 ppm	92
99) Benzo[g,h,i]perylene	16.467	276	321798	24.91 ppm	90

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\sx1826\
Data File : x039251.D
Acq On : 30 Mar 2015 3:54 pm
Operator : nareshj
Sample : ic1826-25
Misc : op55392,sx1826,1000,,,1,1,water
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Mar 31 09:20:16 2015
Quant Method : C:\msdchem\1\METHODS\8270d_0330.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Fri Mar 27 11:06:47 2015
Response via : Initial Calibration



Manual Integration Approval Summary

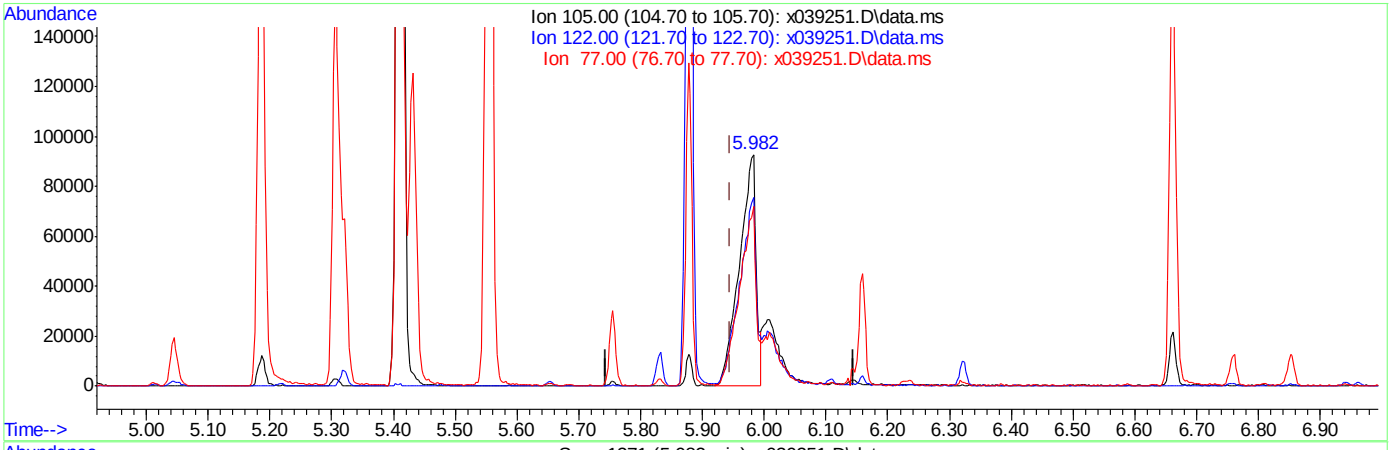
Sample Number:	SX1826-IC1826	**Method:**	SW846 8270D
Lab FileID:	X039251.D	**Analyst approved:**	03/31/15 11:22 Martha Valls
Injection Time:	03/30/15 15:54	**Supervisor approved:**	03/31/15 15:24 Mike Eger

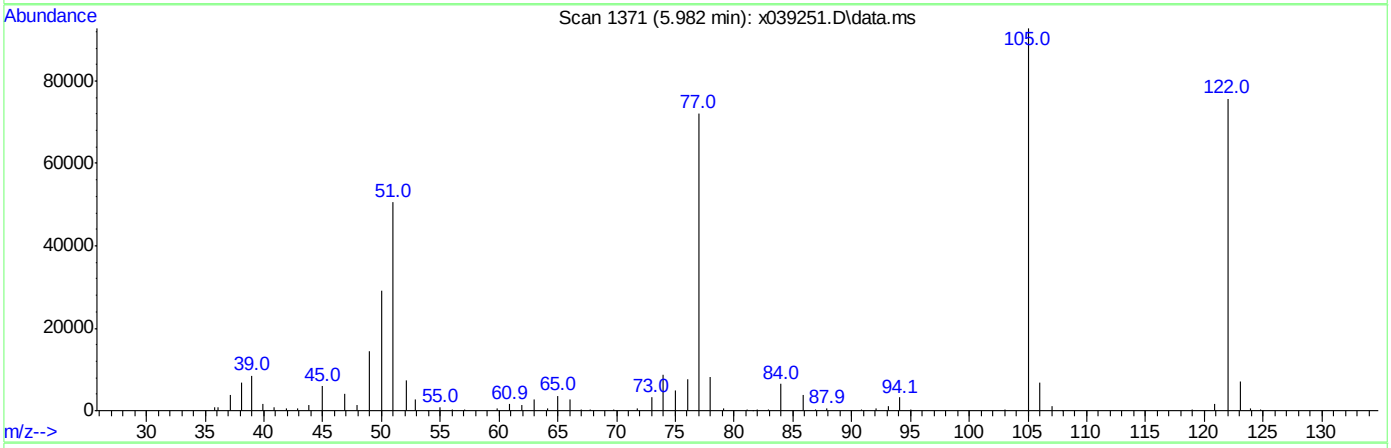
Parameter	CAS	Sig#	R.T. (min.)	Reason
Benzoic Acid	65-85-0		5.98	Split peak

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\sx1826\
Data File : x039251.D
Acq On : 30 Mar 2015 3:54 pm
Operator : nareshj
Sample : ic1826-25
Misc : op55392,sx1826,1000,,,1,1,water
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Mar 31 09:20:05 2015
Quant Method : C:\msdchem\1\METHODS\8270d_0330.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Fri Mar 27 11:06:47 2015
Response via : Initial Calibration





TIC: x039251.D\data.ms

(29) Benzoic Acid

5.982min (+0.037) 20.72ppm

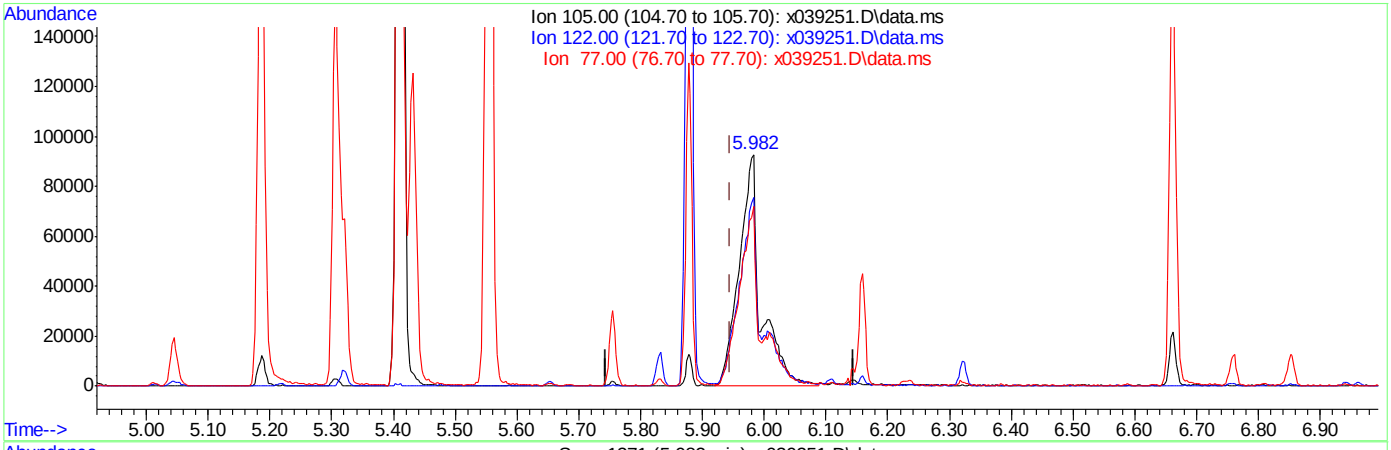
response 173088

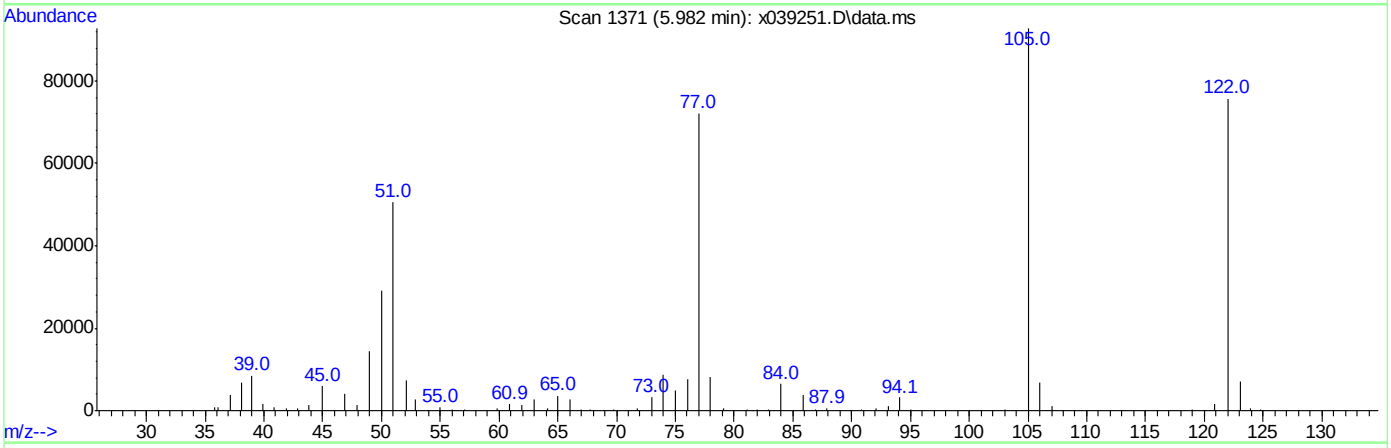
Ion	Exp%	Act%
105.00	100	100
122.00	71.80	79.96
77.00	80.10	77.27
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\sx1826\
Data File : x039251.D
Acq On : 30 Mar 2015 3:54 pm
Operator : nareshj
Sample : ic1826-25
Misc : op55392,sx1826,1000,,,1,1,water
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Mar 31 09:20:05 2015
Quant Method : C:\msdchem\1\METHODS\8270d_0330.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Fri Mar 27 11:06:47 2015
Response via : Initial Calibration





TIC: x039251.D\data.ms

(29) Benzoic Acid

5.982min (+0.037) 27.27ppm m

response 227758

Ion	Exp%	Act%
105.00	100	100
122.00	71.80	81.65
77.00	80.10	77.82
0.00	0.00	0.00

Manual Integrations APPROVED (compounds with "m" flag)
Mike Eger
03/31/15 15:24

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\sx1826\
Data File : x039252.D
Acq On : 30 Mar 2015 4:19 pm
Operator : nareshj
Sample : icc1826-50
Misc : op55392,sx1826,1000,,,1,1,water
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Mar 31 09:18:02 2015
Quant Method : C:\msdchem\1\METHODS\8270d_0330.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Tue Mar 31 09:17:18 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	5.045	152	294565	40.00	ppm	0.00
22) Naphthalene-d8	6.142	136	1158100	40.00	ppm	0.00
41) Acenaphthene-d10	7.690	164	623440	40.00	ppm	0.00
67) Phenanthrene-d10	8.977	188	993506	40.00	ppm	0.00
83) Chrysene-d12	11.628	240	883242	40.00	ppm	0.00
92) Perylene-d12	13.964	264	589324	40.00	ppm	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	4.011	112	1078907	104.11	ppm	0.00
Spiked Amount 100.000	Range 14 - 67		Recovery = 104.11%#			
9) Phenol-d5	4.806	99	1087455	93.78	ppm	0.00
Spiked Amount 100.000	Range 10 - 50		Recovery = 93.78%#			
23) Nitrobenzene-d5	5.542	82	608512	50.17	ppm	0.00
Spiked Amount 50.000	Range 42 - 108		Recovery = 100.34%			
45) 2-Fluorobiphenyl	7.102	172	1068061	50.45	ppm	0.00
Spiked Amount 50.000	Range 40 - 106		Recovery = 100.90%			
72) 2,4,6-Tribromophenol	8.389	330	220057	95.34	ppm	0.00
Spiked Amount 100.000	Range 33 - 118		Recovery = 95.34%			
86) Terphenyl-d14	10.421	244	1000966	48.62	ppm	0.00
Spiked Amount 50.000	Range 39 - 121		Recovery = 97.24%			
Target Compounds						Qvalue
2) 1,4-Dioxane	2.436	88	235386	49.43	ppm #	71
3) N-nitrosodimethylamine	2.783	42	351861	60.45	ppm	97
4) Pyridine	2.775	79	637609	55.19	ppm	93
6) Benzaldehyde	4.681	106	439451	54.80	ppm	95
7) Aniline	4.806	93	789429	53.75	ppm	75
8) bis(2-Chloroethyl)ether	4.857	93	508568	51.76	ppm	83
10) Phenol	4.818	94	707896	52.69	ppm	94
11) 2-Chlorophenol	4.900	128	570584	52.12	ppm	92
12) 1,3-Dichlorobenzene	5.014	146	606729	51.38	ppm	98
13) 1,4-Dichlorobenzene	5.059	146	610809	51.78	ppm	99
14) 1,2-Dichlorobenzene	5.218	146	583549	51.91	ppm	97
15) Benzyl alcohol	5.190	108	363206	51.18	ppm	94
16) 2-Methylphenol	5.309	108	506496	54.10	ppm	95
17) bis(2-chloroisopropyl)...	5.320	45	908904	56.12	ppm	86
18) Acetophenone	5.414	105	748072	51.91	ppm	95
19) N-Nitroso-di-n-propyla...	5.440	70	313993	61.34	ppm	90
20) 3&4-Methylphenol	5.434	108	527441	53.51	ppm	95
21) Hexachloroethane	5.480	117	250647	52.25	ppm	85
24) Nitrobenzene	5.556	77	574311	50.60	ppm	93
25) Isophorone	5.758	82	1050856	50.97	ppm	98
26) 2-Nitrophenol	5.832	139	302777	49.17	ppm	97
27) 2,4-Dimethylphenol	5.880	107	537212	50.86	ppm	93
28) bis(2-Chloroethoxy)met...	5.957	93	596550	51.06	ppm	96
29) Benzoic Acid	6.005	105	456172m	59.35	ppm	
30) 2,4-Dichlorophenol	6.039	162	436715	49.29	ppm	96
31) 1,2,4-Trichlorobenzene	6.110	180	448686	48.93	ppm	96
32) Naphthalene	6.162	128	1492622	50.85	ppm	96

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\sx1826\
Data File : x039252.D
Acq On : 30 Mar 2015 4:19 pm
Operator : nareshj
Sample : icc1826-50
Misc : op55392,sx1826,1000,,,1,1,water
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Mar 31 09:18:02 2015
Quant Method : C:\msdchem\1\METHODS\8270d_0330.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Tue Mar 31 09:17:18 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
33) 4-Chloroaniline	6.230	127	688550	51.70	ppm		97
34) 2,6-Dichlorophenol	6.039	162	436715	49.29	ppm		92
35) Hexachlorobutadiene	6.324	225	249336	48.60	ppm		97
36) Caprolactam	6.534	113	183563	51.97	ppm	#	64
37) 4-Chloro-3-methylphenol	6.664	107	487558	52.14	ppm		98
38) 2-Methylnaphthalene	6.761	142	1043173	49.72	ppm		97
39) 1-Methylnaphthalene	6.855	142	928688	50.12	ppm		98
40) 1,2,4,5-Tetrachloroben...	6.943	216	444571	49.52	ppm		97
42) Hexachlorocyclopentadiene	6.963	237	295158	55.02	ppm		98
43) 2,4,6-Trichlorophenol	7.037	196	299009	50.99	ppm		97
44) 2,4,5-Trichlorophenol	7.074	196	314125	49.87	ppm		99
46) 1,1'-Biphenyl	7.179	154	1189637	49.95	ppm		93
47) 2-Chloronaphthalene	7.184	162	921049	51.59	ppm		97
48) 2-Nitroaniline	7.304	65	363004	54.97	ppm		91
49) p-Dinitrobenzene	7.400	75	222032	55.33	ppm		87
50) Dimethylphthalate	7.497	163	1047679	51.20	ppm		99
51) m-Dinitrobenzene	7.503	168	178397	51.25	ppm	#	63
52) 2,6-Dinitrotoluene	7.551	165	243435	50.72	ppm		95
53) o-Dinitrobenzene	7.611	50	224625	55.78	ppm		89
54) Acenaphthylene	7.554	152	1446540	51.14	ppm		95
55) 3-Nitroaniline	7.304	138	359052	52.26	ppm	#	60
56) Acenaphthene	7.719	153	946449	51.99	ppm	#	1
57) 2,4-Dinitrophenol	7.756	184	145818	75.74	ppm		100
58) 4-Nitrophenol	7.832	109	167618	59.11	ppm	#	71
59) Dibenzofuran	7.855	168	1313341	51.92	ppm		95
60) 2,4-Dinitrotoluene	7.892	165	342442	53.13	ppm		95
61) 2,3,5,6-Tetrachlorophenol	7.966	232	257013	52.56	ppm		91
62) 2,3,4,6-Tetrachlorophenol	8.006	232	250637	52.03	ppm		92
63) Diethylphthalate	8.116	149	1088071	51.99	ppm		98
64) Fluorene	8.159	166	1072956	51.49	ppm		99
65) 4-Chlorophenyl-phenyle...	8.159	204	494244	51.70	ppm		94
66) 4-Nitroaniline	8.216	138	285811	60.54	ppm		88
68) 4,6-Dinitro-2-methylph...	8.250	198	192613	60.40	ppm		82
69) Diphenylamine	8.273	169	924976	50.86	ppm		100
70) n-Nitrosodiphenylamine	8.273	169	924976	61.03	ppm		95
71) 1,2-Diphenylhydrazine	8.298	77	1120063	51.06	ppm		95
73) 4-Bromophenyl-phenylether	8.585	248	255402	48.35	ppm		89
74) Hexachlorobenzene	8.716	284	248739	49.17	ppm		92
75) Simazine	8.744	201	157125	104.74	ppm		96
76) Atrazine	8.776	200	308446	49.78	ppm	#	76
77) Pentachlorophenol	8.875	266	170268	55.32	ppm		99
78) Phenanthrene	8.997	178	1459483	50.78	ppm		96
79) Anthracene	9.037	178	1484054	52.07	ppm		97
80) Carbazole	9.185	167	1424676	55.32	ppm		97
81) Di-n-butylphthalate	9.546	149	1714125	50.14	ppm		98
82) Fluoranthene	10.051	202	1521390	51.61	ppm		95
84) Benzidine	10.177	184	723211	65.70	ppm		99
85) Pyrene	10.256	202	1575500	48.68	ppm		93
87) Butylbenzylphthalate	10.983	149	768382	49.43	ppm		95
88) 3,3'-Dichlorobenzidine	11.603	252	385574	55.46	ppm		98

ACCUTEST LABORATORIES FA23189

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\sx1826\
Data File : x039252.D
Acq On : 30 Mar 2015 4:19 pm
Operator : nareshj
Sample : icc1826-50
Misc : op55392,sx1826,1000,,,1,1,water
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Mar 31 09:18:02 2015
Quant Method : C:\msdchem\1\METHODS\8270d_0330.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Tue Mar 31 09:17:18 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
89) Benzo[a]anthracene	11.603	228	1301298	52.02 ppm	97
90) Chrysene	11.663	228	1217596	51.77 ppm	98
91) bis(2-Ethylhexyl)phtha...	11.782	149	1023717	48.95 ppm	98
93) Di-n-octylphthalate	12.776	149	1554097	50.51 ppm	94
94) Benzo[b]fluoranthene	13.291	252	979594	51.36 ppm	96
95) Benzo[k]fluoranthene	13.333	252	1009023	55.04 ppm	97
96) Benzo[a]pyrene	13.856	252	913209	53.79 ppm	96
97) Indeno[1,2,3-cd]pyrene	16.030	276	585549	52.47 ppm	94
98) Dibenz[a,h]anthracene	16.095	278	548221	52.83 ppm	94
99) Benzo[g,h,i]perylene	16.485	276	678515	53.90 ppm	94

(#) = qualifier out of range (m) = manual integration (+) = signals summed

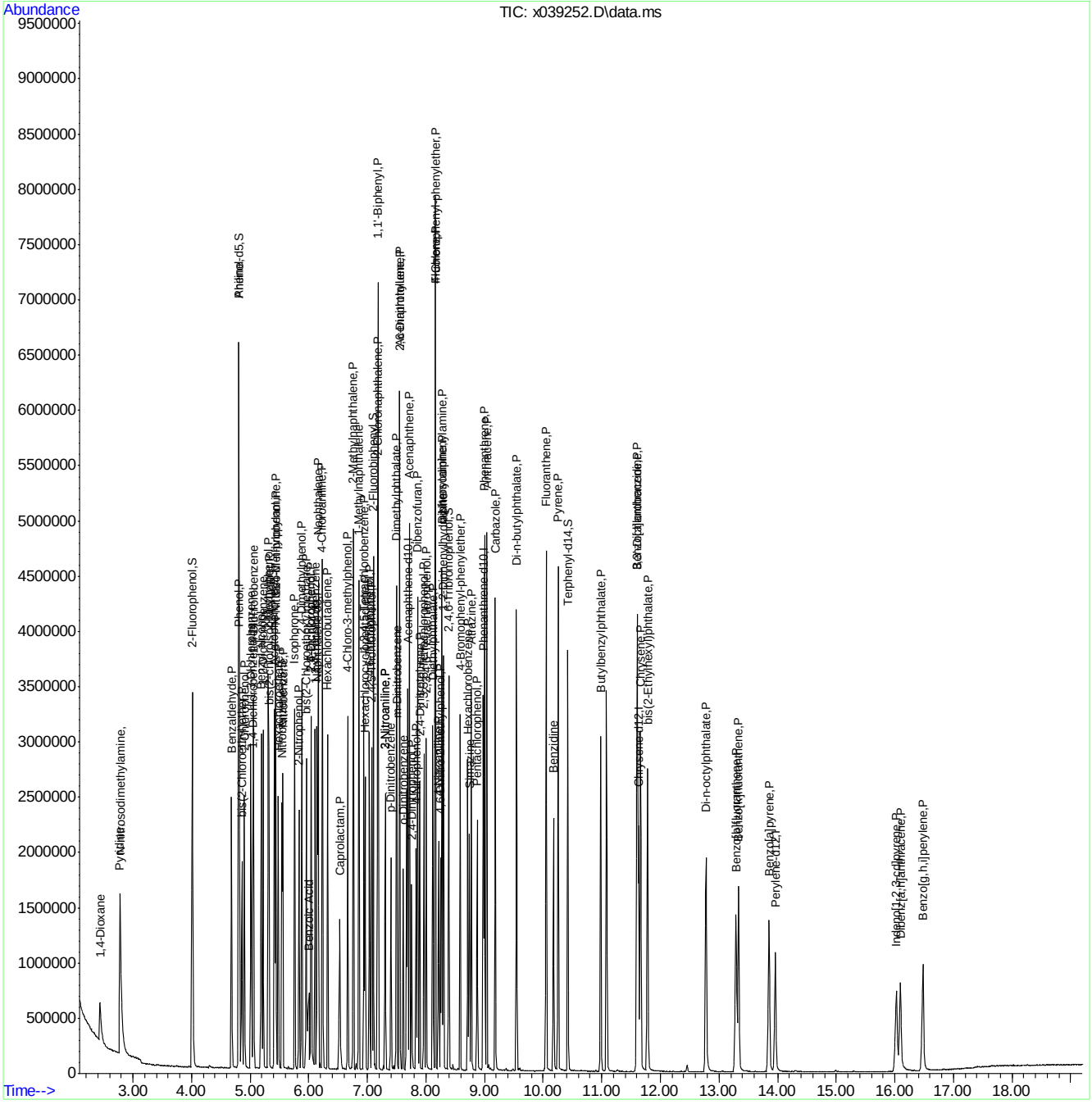
7.6.26

7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\sx1826\
Data File : x039252.D
Acq On : 30 Mar 2015 4:19 pm
Operator : nareshj
Sample : icc1826-50
Misc : op55392,sx1826,1000,,,1,1,water
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Mar 31 09:18:02 2015
Quant Method : C:\msdchem\1\METHODS\8270d_0330.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Tue Mar 31 09:17:18 2015
Response via : Initial Calibration



ACCUTEST LABORATORIES FA23189

Manual Integration Approval Summary

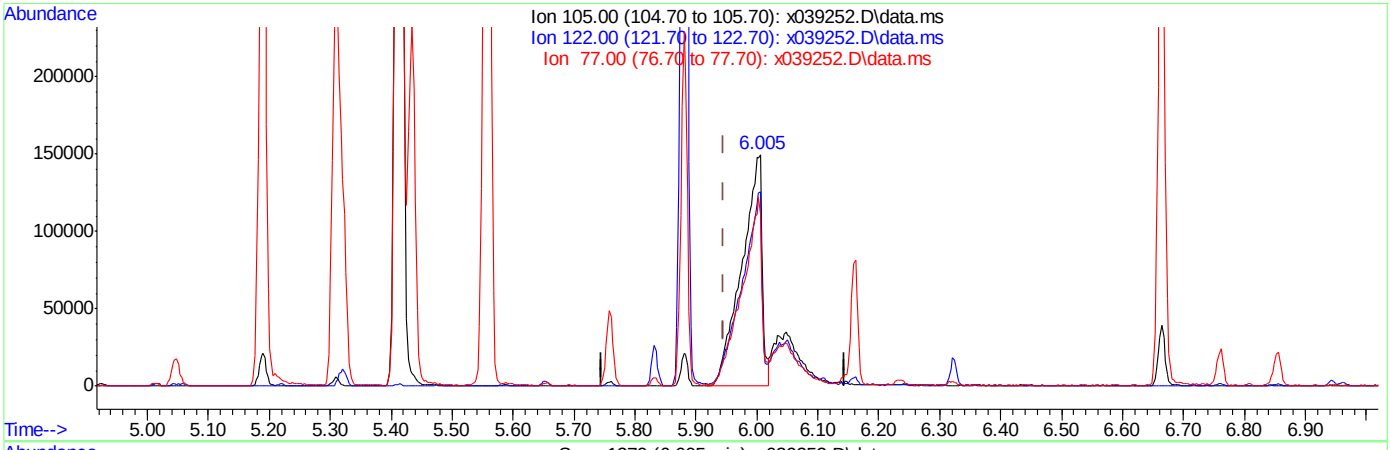
Sample Number:	SX1826-ICC1826	**Method:**	SW846 8270D
Lab FileID:	X039252.D	**Analyst approved:**	03/31/15 11:22 Martha Valls
Injection Time:	03/30/15 16:19	**Supervisor approved:**	03/31/15 15:24 Mike Eger

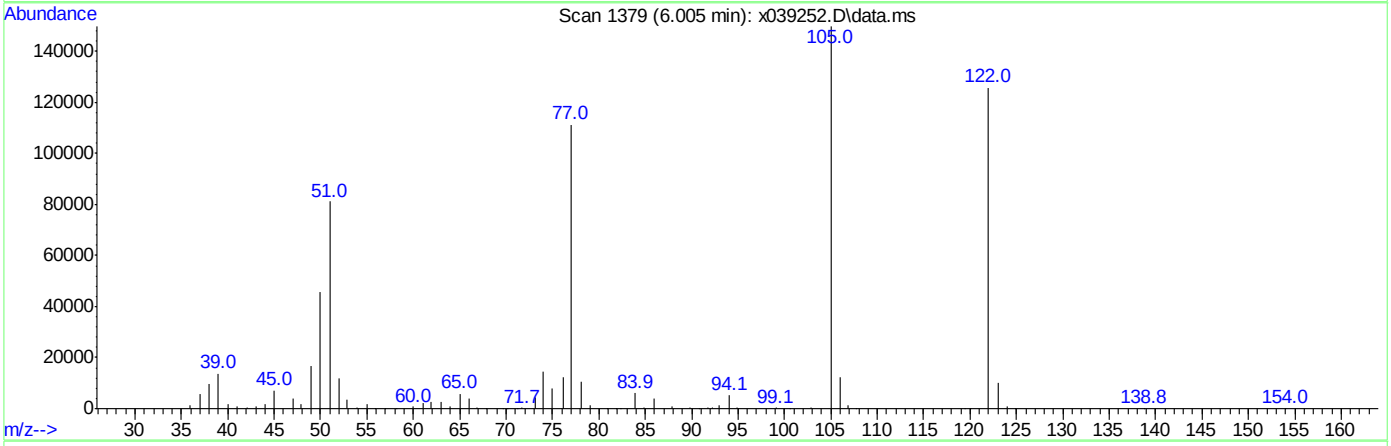
Parameter	CAS	Sig#	R.T. (min.)	Reason
Benzoic Acid	65-85-0		6.01	Split peak

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\sx1826\
Data File : x039252.D
Acq On : 30 Mar 2015 4:19 pm
Operator : nareshj
Sample : icc1826-50
Misc : op55392,sx1826,1000,,,1,1,water
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Mar 31 09:17:21 2015
Quant Method : C:\msdchem\1\METHODS\8270d_0330.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Tue Mar 31 09:17:18 2015
Response via : Initial Calibration





TIC: x039252.D\data.ms

(29) Benzoic Acid

6.005min (+0.060) 45.19ppm

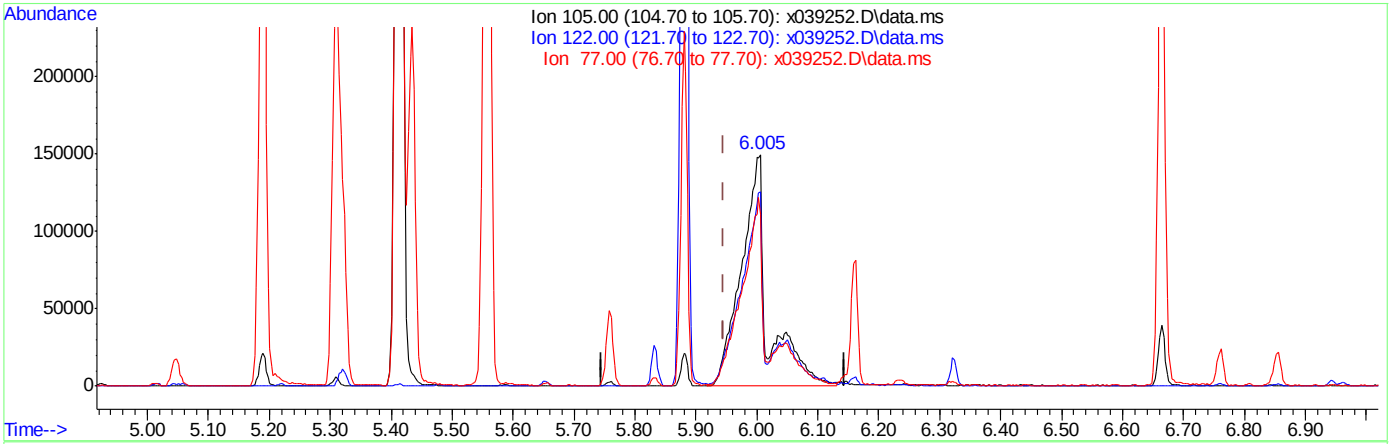
response 347298

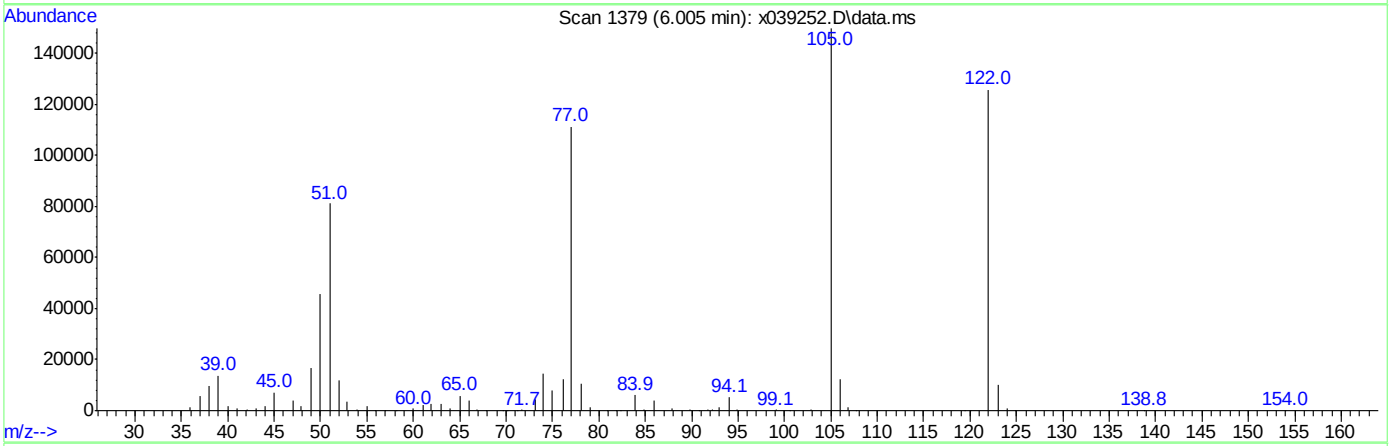
Ion	Exp%	Act%
105.00	100	100
122.00	71.80	83.43
77.00	80.10	73.29
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\sx1826\
Data File : x039252.D
Acq On : 30 Mar 2015 4:19 pm
Operator : nareshj
Sample : icc1826-50
Misc : op55392,sx1826,1000,,,1,1,water
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Mar 31 09:17:21 2015
Quant Method : C:\msdchem\1\METHODS\8270d_0330.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Tue Mar 31 09:17:18 2015
Response via : Initial Calibration





TIC: x039252.D\data.ms

(29) Benzoic Acid

6.005min (+0.060) 59.35ppm m

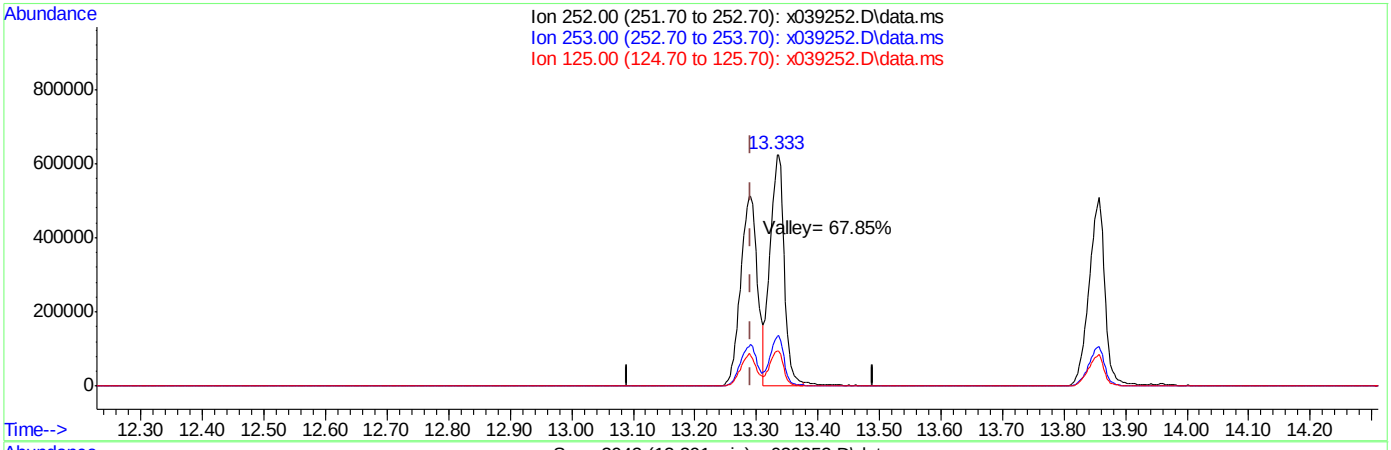
response 456172

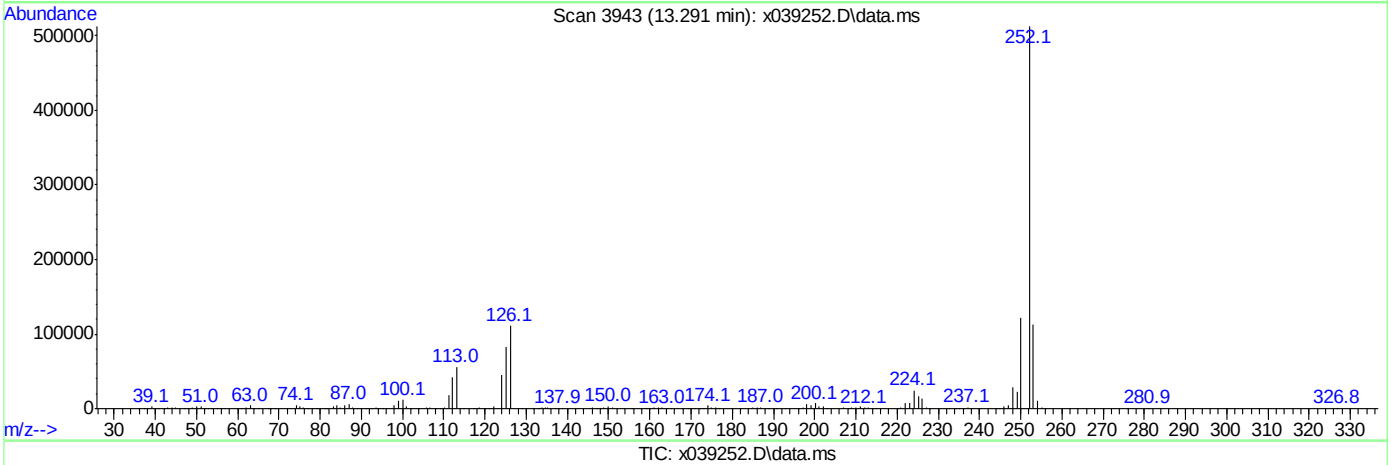
Ion	Exp%	Act%
105.00	100	100
122.00	71.80	83.87
77.00	80.10	74.21
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\sx1826\
Data File : x039252.D
Acq On : 30 Mar 2015 4:19 pm
Operator : nareshj
Sample : icc1826-50
Misc : op55392,sx1826,1000,,,1,1,water
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Mar 31 09:18:02 2015
Quant Method : C:\msdchem\1\METHODS\8270d_0330.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Tue Mar 31 09:17:18 2015
Response via : Initial Calibration





TIC: x039252.D\data.ms

(94) Benzo[b]fluoranthene (P)

13.291min (0.000) 51.36ppm

response 979594

Ion	Exp%	Act%
252.00	100	100
253.00	22.00	22.02
125.00	12.20	16.37
0.00	0.00	0.00

Manual Integrations APPROVED (compounds with "m" flag)
Mike Eger
03/31/15 15:24

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\sx1826\
Data File : x039253.D
Acq On : 30 Mar 2015 4:43 pm
Operator : nareshj
Sample : ic1826-60
Misc : op55392,sx1826,1000,,,1,1,water
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Mar 31 09:21:25 2015
Quant Method : C:\msdchem\1\METHODS\8270d_0330.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Fri Mar 27 11:06:47 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	5.045	152	302313	40.00	ppm	0.00
22) Naphthalene-d8	6.144	136	1158535	40.00	ppm	0.00
41) Acenaphthene-d10	7.690	164	618489	40.00	ppm	0.00
67) Phenanthrene-d10	8.977	188	978604	40.00	ppm	0.00
83) Chrysene-d12	11.626	240	844565	40.00	ppm	0.00
92) Perylene-d12	13.964	264	573628	40.00	ppm	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	4.011	112	1484689	139.59	ppm	0.00
Spiked Amount 100.000	Range 14 - 67		Recovery = 139.59%#			
9) Phenol-d5	4.809	99	1487096	124.95	ppm	0.00
Spiked Amount 100.000	Range 10 - 50		Recovery = 124.95%#			
23) Nitrobenzene-d5	5.545	82	843105	69.49	ppm	0.00
Spiked Amount 50.000	Range 42 - 108		Recovery = 138.98%#			
45) 2-Fluorobiphenyl	7.102	172	1432362	68.20	ppm	0.00
Spiked Amount 50.000	Range 40 - 106		Recovery = 136.40%#			
72) 2,4,6-Tribromophenol	8.392	330	337963	148.65	ppm	0.00
Spiked Amount 100.000	Range 33 - 118		Recovery = 148.65%#			
86) Terphenyl-d14	10.421	244	1393012	70.76	ppm	0.00
Spiked Amount 50.000	Range 39 - 121		Recovery = 141.52%#			
Target Compounds						Qvalue
2) 1,4-Dioxane	2.431	88	338676	69.30	ppm	75
3) N-nitrosodimethylamine	2.780	42	480368	80.41	ppm	94
4) Pyridine	2.769	79	891775	75.22	ppm	100
6) Benzaldehyde	4.681	106	438384	53.26	ppm	97
7) Aniline	4.806	93	1086135	72.06	ppm	84
8) bis(2-Chloroethyl)ether	4.860	93	724306	71.83	ppm	88
10) Phenol	4.820	94	984064	71.37	ppm	98
11) 2-Chlorophenol	4.900	128	801416	71.32	ppm	93
12) 1,3-Dichlorobenzene	5.014	146	871920	71.95	ppm	98
13) 1,4-Dichlorobenzene	5.059	146	859010	70.96	ppm	98
14) 1,2-Dichlorobenzene	5.218	146	825150	71.53	ppm	97
15) Benzyl alcohol	5.193	108	516832	70.97	ppm	91
16) 2-Methylphenol	5.312	108	694608	72.29	ppm	96
17) bis(2-chloroisopropyl)...	5.320	45	1167621	70.25	ppm	91
18) Acetophenone	5.414	105	863555	58.39	ppm	96
19) N-Nitroso-di-n-propyla...	5.446	70	422474	80.41	ppm	92
20) 3&4-Methylphenol	5.437	108	730199	72.18	ppm	97
21) Hexachloroethane	5.480	117	349684	71.03	ppm	85
24) Nitrobenzene	5.559	77	803299	70.75	ppm	93
25) Isophorone	5.761	82	1429950	69.33	ppm	96
26) 2-Nitrophenol	5.835	139	426803	69.28	ppm	87
27) 2,4-Dimethylphenol	5.883	107	754750	71.43	ppm	95
28) bis(2-Chloroethoxy)met...	5.960	93	814255	69.67	ppm	95
29) Benzoic Acid	6.022	105	622010m	80.90	ppm	
30) 2,4-Dichlorophenol	6.042	162	610817	68.91	ppm	97
31) 1,2,4-Trichlorobenzene	6.110	180	632021	68.89	ppm	94
32) Naphthalene	6.162	128	1978107	67.36	ppm	99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\sx1826\
Data File : x039253.D
Acq On : 30 Mar 2015 4:43 pm
Operator : nareshj
Sample : ic1826-60
Misc : op55392,sx1826,1000,,,1,1,water
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Mar 31 09:21:25 2015
Quant Method : C:\msdchem\1\METHODS\8270d_0330.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Fri Mar 27 11:06:47 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
33) 4-Chloroaniline	6.233	127	943361	70.81	ppm		97
34) 2,6-Dichlorophenol	6.042	162	610817	68.91	ppm		92
35) Hexachlorobutadiene	6.324	225	355604	69.29	ppm		97
36) Caprolactam	6.539	113	208180m	58.92	ppm		
37) 4-Chloro-3-methylphenol	6.667	107	670137	71.64	ppm		95
38) 2-Methylnaphthalene	6.761	142	1441394	68.67	ppm		98
39) 1-Methylnaphthalene	6.858	142	1268146	68.41	ppm		98
40) 1,2,4,5-Tetrachloroben...	6.946	216	633904	70.59	ppm		98
42) Hexachlorocyclopentadiene	6.963	237	424252	79.71	ppm		97
43) 2,4,6-Trichlorophenol	7.037	196	422573	72.64	ppm		99
44) 2,4,5-Trichlorophenol	7.074	196	443121	70.91	ppm		98
46) 1,1'-Biphenyl	7.179	154	1369419	57.96	ppm		92
47) 2-Chloronaphthalene	7.187	162	1251462	70.66	ppm		97
48) 2-Nitroaniline	7.307	65	482346	73.62	ppm		95
49) p-Dinitrobenzene	7.403	75	303664	76.28	ppm		91
50) Dimethylphthalate	7.497	163	1425718	70.23	ppm		99
51) m-Dinitrobenzene	7.506	168	254704	73.75	ppm	#	56
52) 2,6-Dinitrotoluene	7.554	165	337952	70.98	ppm		97
53) o-Dinitrobenzene	7.614	50	296177	74.14	ppm		91
54) Acenaphthylene	7.557	152	1956491	69.73	ppm		93
55) 3-Nitroaniline	7.307	138	496326	72.82	ppm	#	58
56) Acenaphthene	7.719	153	1281979	70.98	ppm	#	1
57) 2,4-Dinitrophenol	7.758	184	215319	112.74	ppm		96
58) 4-Nitrophenol	7.835	109	240962	85.66	ppm	#	80
59) Dibenzofuran	7.858	168	1754885	69.93	ppm		95
60) 2,4-Dinitrotoluene	7.895	165	480875	75.20	ppm		96
61) 2,3,5,6-Tetrachlorophenol	7.969	232	361646	74.55	ppm		95
62) 2,3,4,6-Tetrachlorophenol	8.008	232	358489	75.02	ppm		95
63) Diethylphthalate	8.119	149	1479666	71.26	ppm		97
64) Fluorene	8.159	166	1476414	71.42	ppm		98
65) 4-Chlorophenyl-phenyle...	8.162	204	692087	72.98	ppm		97
66) 4-Nitroaniline	8.222	138	401818	85.80	ppm		86
68) 4,6-Dinitro-2-methylph...	8.256	198	280989	89.46	ppm	#	33
69) Diphenylamine	8.276	169	1261972	70.44	ppm		96
70) n-Nitrosodiphenylamine	8.276	169	1261972	84.53	ppm		91
71) 1,2-Diphenylhydrazine	8.298	77	1469145	67.99	ppm		97
73) 4-Bromophenyl-phenylether	8.585	248	376900	72.43	ppm		91
74) Hexachlorobenzene	8.716	284	349984	70.24	ppm		94
75) Simazine	8.747	201	219746	148.72	ppm		99
76) Atrazine	8.779	200	342855	56.18	ppm		83
77) Pentachlorophenol	8.875	266	247911	81.77	ppm		99
78) Phenanthrene	9.000	178	1974689	69.75	ppm		95
79) Anthracene	9.040	178	1943592	69.23	ppm		93
80) Carbazole	9.188	167	1884720	74.30	ppm		95
81) Di-n-butylphthalate	9.546	149	2249772	66.82	ppm		96
82) Fluoranthene	10.051	202	2085975	71.85	ppm		92
84) Benzidine	10.177	184	954696	90.70	ppm		99
85) Pyrene	10.256	202	2122723	68.59	ppm		91
87) Butylbenzylphthalate	10.981	149	1031610	69.40	ppm		95
88) 3,3'-Dichlorobenzidine	11.606	252	552229	83.07	ppm		98

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\sx1826\
Data File : x039253.D
Acq On : 30 Mar 2015 4:43 pm
Operator : nareshj
Sample : ic1826-60
Misc : op55392,sx1826,1000,,,1,1,water
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Mar 31 09:21:25 2015
Quant Method : C:\msdchem\1\METHODS\8270d_0330.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Fri Mar 27 11:06:47 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
89) Benzo[a]anthracene	11.603	228	1778715	74.36 ppm	96
90) Chrysene	11.665	228	1677204	74.58 ppm	97
91) bis(2-Ethylhexyl)phtha...	11.782	149	1387474	69.38 ppm	97
93) Di-n-octylphthalate	12.776	149	2139057	71.43 ppm	96
94) Benzo[b]fluoranthene	13.294	252	1382170	74.45 ppm	97
95) Benzo[k]fluoranthene	13.342	252	1398817	78.39 ppm	98
96) Benzo[a]pyrene	13.862	252	1280914	77.51 ppm	97
97) Indeno[1,2,3-cd]pyrene	16.036	276	870178	80.10 ppm	96
98) Dibenz[a,h]anthracene	16.104	278	803583	79.56 ppm	96
99) Benzo[g,h,i]perylene	16.490	276	986875	80.53 ppm	93

(#) = qualifier out of range (m) = manual integration (+) = signals summed

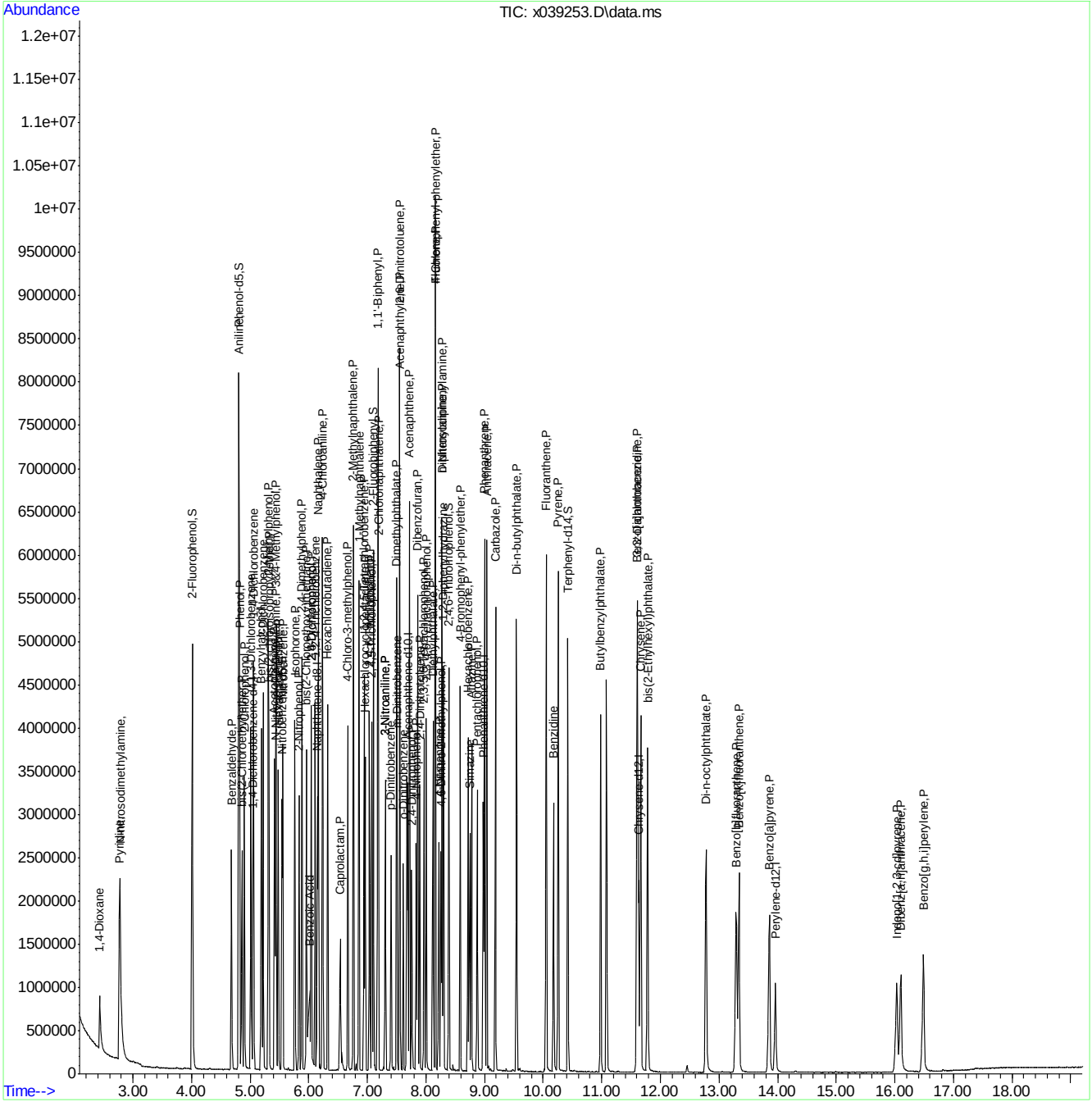
7.6.27

7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\sx1826\
Data File : x039253.D
Acq On : 30 Mar 2015 4:43 pm
Operator : nareshj
Sample : ic1826-60
Misc : op55392,sx1826,1000,,,1,1,water
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Mar 31 09:21:25 2015
Quant Method : C:\msdchem\1\METHODS\8270d_0330.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Fri Mar 27 11:06:47 2015
Response via : Initial Calibration



ACCUTEST LABORATORIES FA23189

Manual Integration Approval Summary

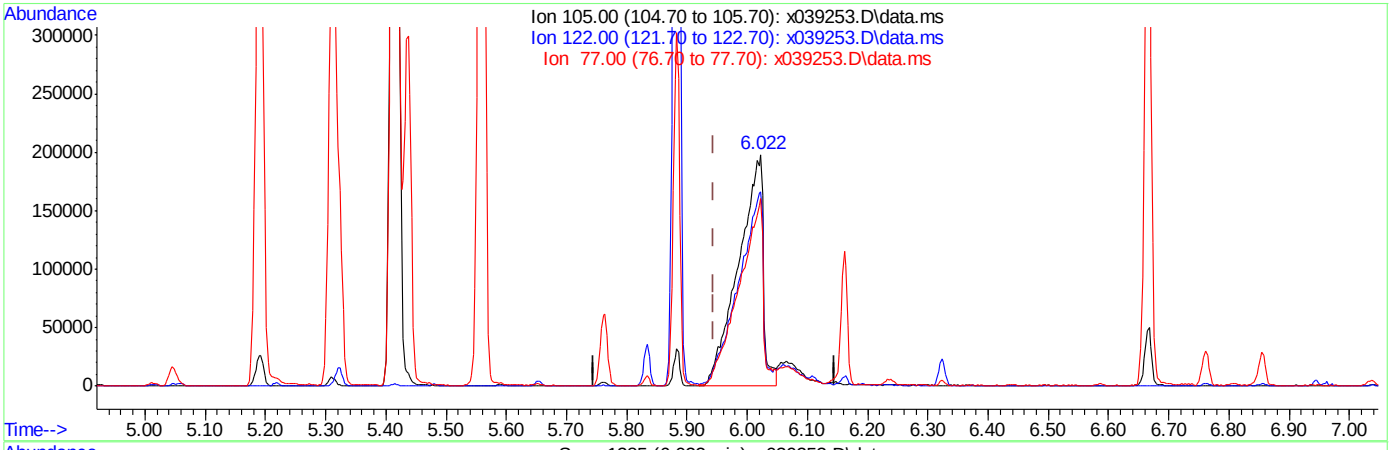
Sample Number:	SX1826-IC1826	**Method:**	SW846 8270D	
Lab FileID:	X039253.D	**Analyst approved:**	03/31/15 11:22	Martha Valls
Injection Time:	03/30/15 16:43	**Supervisor approved:**	03/31/15 15:24	Mike Eger

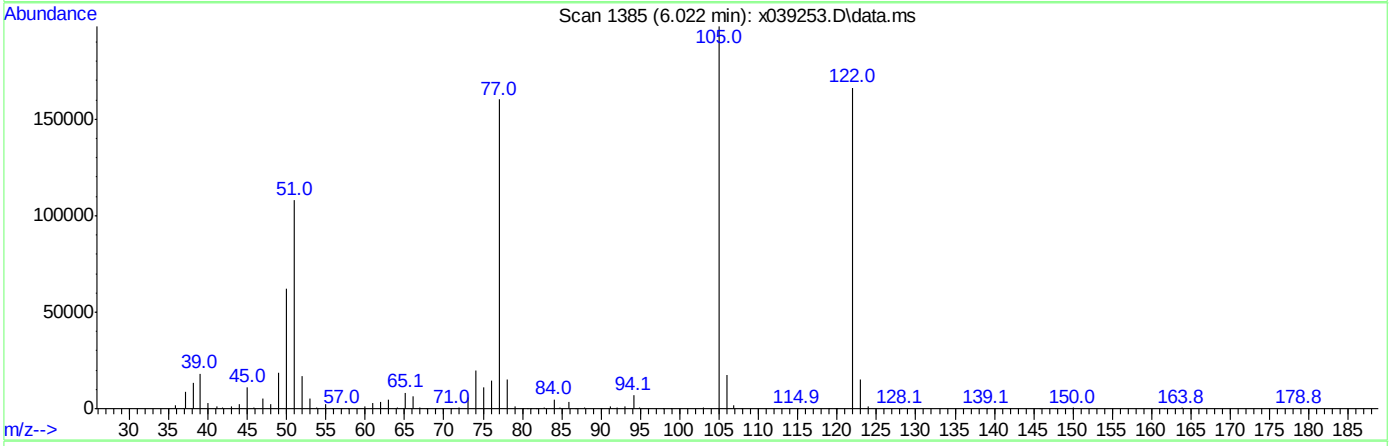
Parameter	CAS	Sig#	R.T. (min.)	Reason
Benzoic Acid	65-85-0		6.02	Split peak
Caprolactam	105-60-2		6.54	Split peak

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\sx1826\
Data File : x039253.D
Acq On : 30 Mar 2015 4:43 pm
Operator : nareshj
Sample : ic1826-60
Misc : op55392,sx1826,1000,,,1,1,water
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Mar 31 09:21:00 2015
Quant Method : C:\msdchem\1\METHODS\8270d_0330.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Fri Mar 27 11:06:47 2015
Response via : Initial Calibration





TIC: x039253.D\data.ms

(29) Benzoic Acid

6.022min (+0.077) 73.38ppm

response 564205

Ion	Exp%	Act%
105.00	100	100
122.00	71.80	83.20
77.00	80.10	80.07
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\sx1826\
Data File : x039253.D
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Operator : nareshj
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Misc : op55392,sx1826,1000,,,1,1,water
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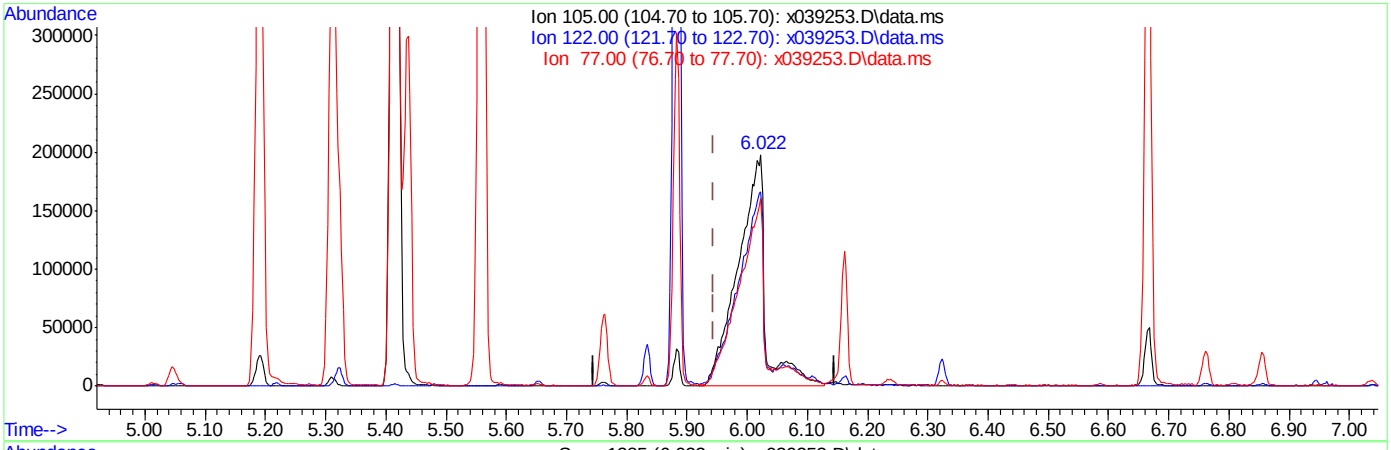

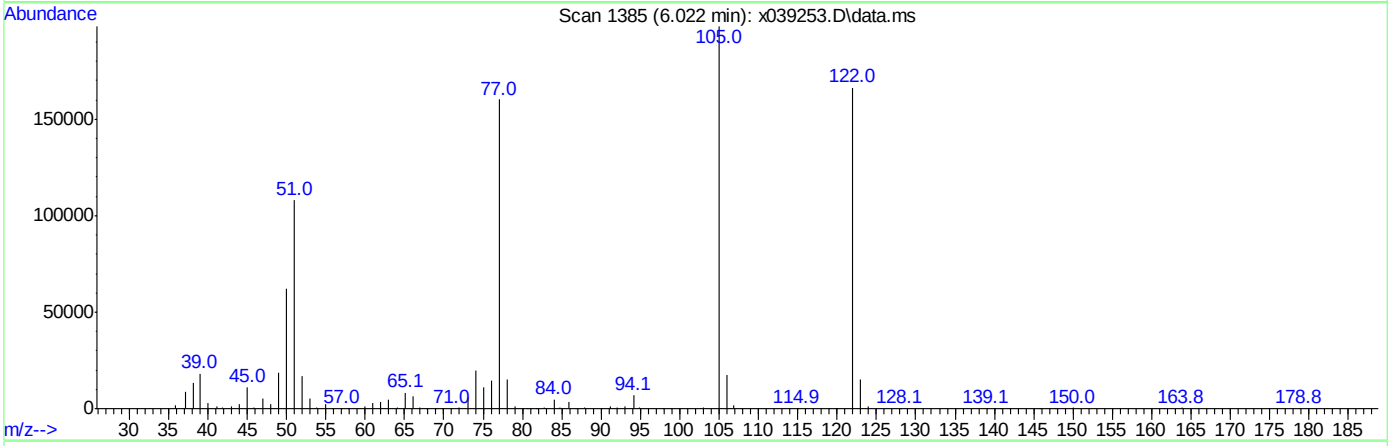

TIC: x039253.D\data.ms

(29) Benzoic Acid

6.022min (+0.077) 80.90ppm m

response 622010

Ion	Exp%	Act%
105.00	100	100
122.00	71.80	83.97
77.00	80.10	80.94
0.00	0.00	0.00

Quantitation Report (Qedit)

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Acq On : 30 Mar 2015 4:43 pm
Operator : nareshj
Sample : ic1826-60
Misc : op55392,sx1826,1000,,,1,1,water
ALS Vial : 8 Sample Multiplier: 1

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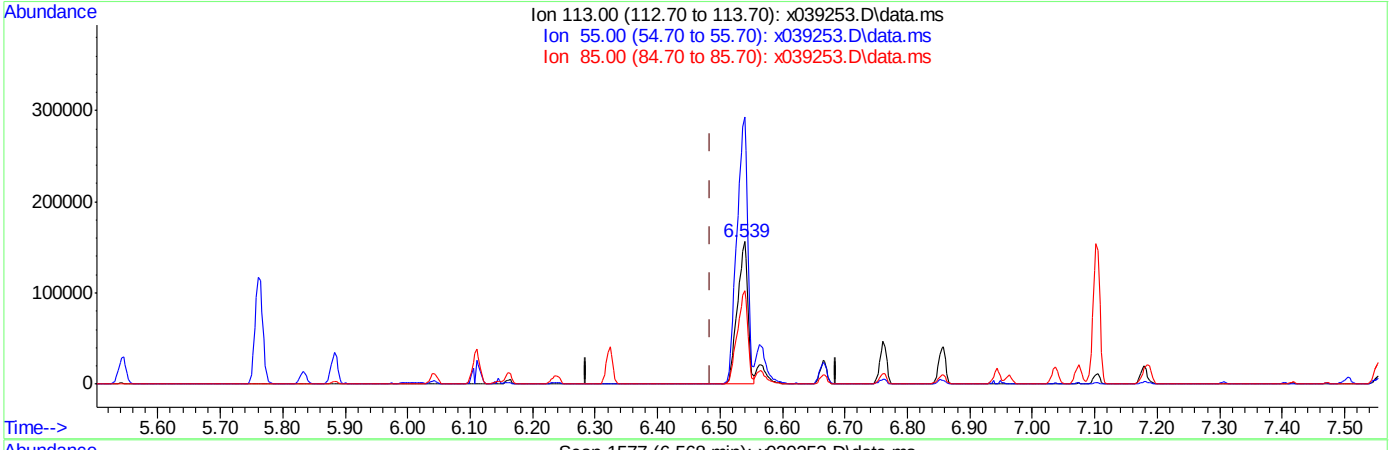

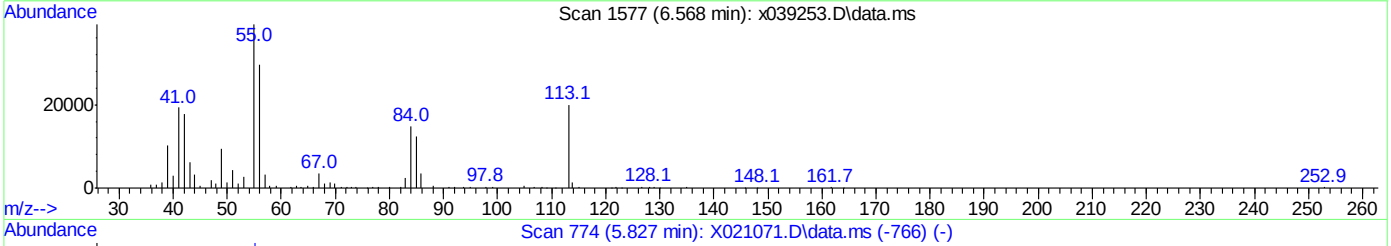

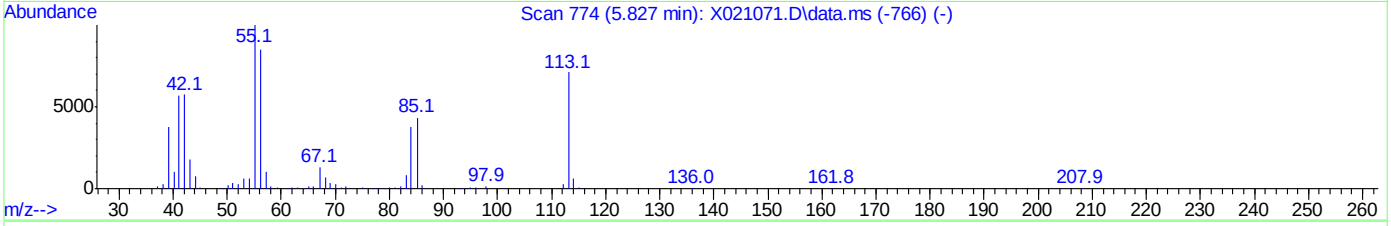

TIC: x039253.D\data.ms

(36) Caprolactam (P)

6.539min (+0.054) 51.59ppm

response 182275

Ion	Exp%	Act%
113.00	100	100
55.00	140.60	186.27#
85.00	61.10	65.54
0.00	0.00	0.00

Quantitation Report (Qedit)

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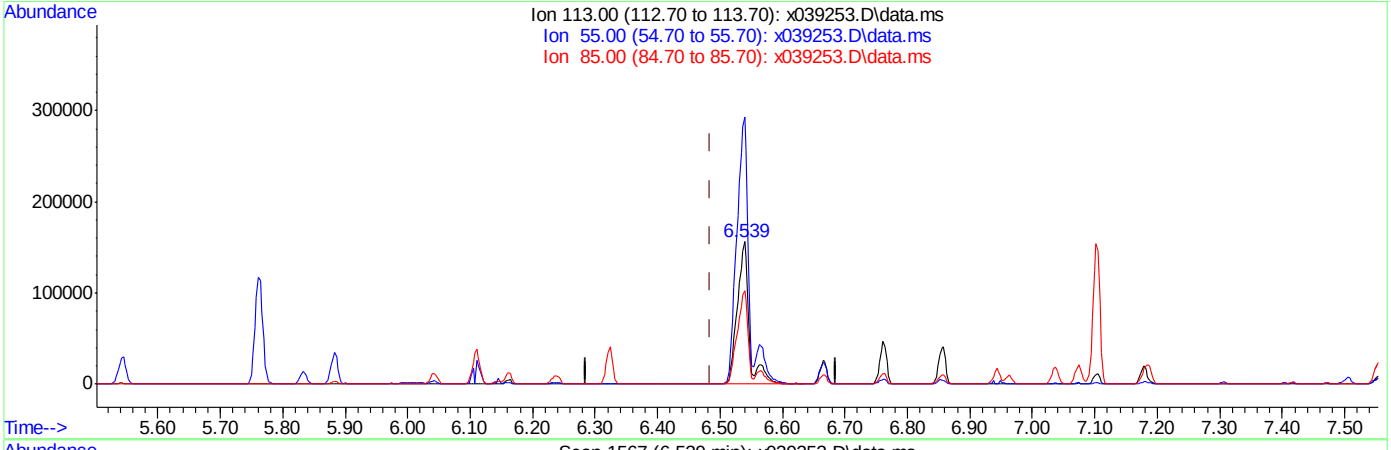

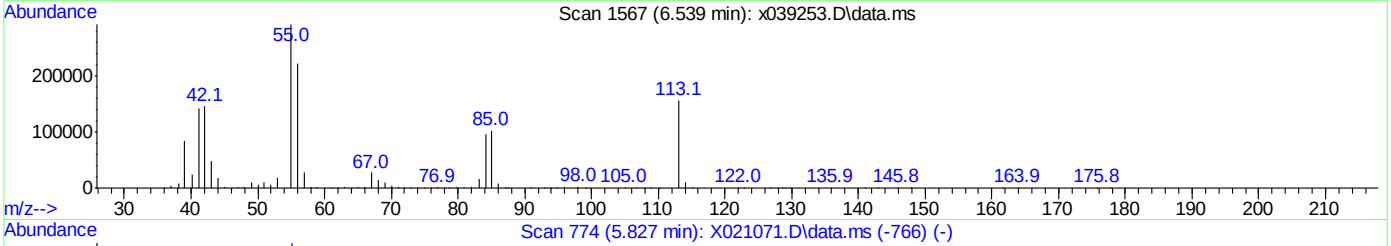

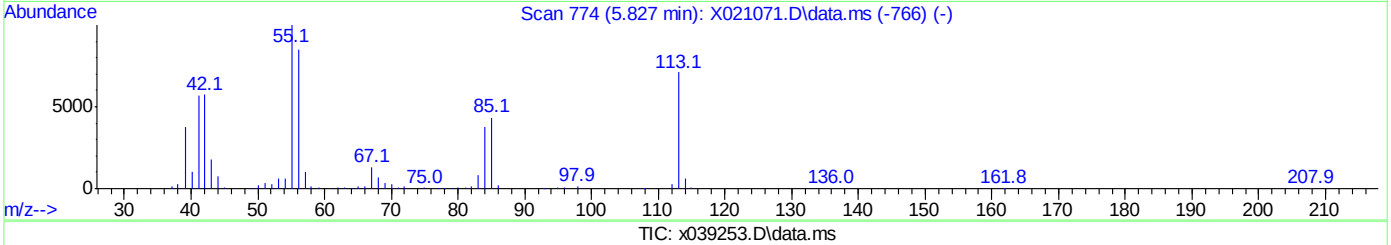

TIC: x039253.D\data.ms

(36) Caprolactam (P)

6.539min (+0.054) 58.92ppm m

response 208180

Ion	Exp%	Act%
113.00	100	100
55.00	140.60	187.12#
85.00	61.10	65.54
0.00	0.00	0.00

Manual Integrations APPROVED (compounds with "m" flag)
Mike Eger
03/31/15 15:24

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\sx1826\
Data File : x039254.D
Acq On : 30 Mar 2015 5:08 pm
Operator : nareshj
Sample : ic1826-75
Misc : op55392,sx1826,1000,,,1,1,water
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Mar 31 09:22:15 2015
Quant Method : C:\msdchem\1\METHODS\8270d_0330.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Fri Mar 27 11:06:47 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	5.045	152	296007	40.00	ppm	0.00
22) Naphthalene-d8	6.144	136	1169028	40.00	ppm	0.00
41) Acenaphthene-d10	7.690	164	643453	40.00	ppm	0.00
67) Phenanthrene-d10	8.977	188	1001306	40.00	ppm	0.00
83) Chrysene-d12	11.626	240	861497	40.00	ppm	0.00
92) Perylene-d12	13.964	264	584364	40.00	ppm	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	4.010	112	1576051	151.34	ppm	0.00
Spiked Amount 100.000	Range 14 - 67		Recovery = 151.34%#			
9) Phenol-d5	4.812	99	1548168	132.85	ppm	0.01
Spiked Amount 100.000	Range 10 - 50		Recovery = 132.85%#			
23) Nitrobenzene-d5	5.545	82	900619	73.57	ppm	0.00
Spiked Amount 50.000	Range 42 - 108		Recovery = 147.14%#			
45) 2-Fluorobiphenyl	7.105	172	1529700	70.00	ppm	0.00
Spiked Amount 50.000	Range 40 - 106		Recovery = 140.00%#			
72) 2,4,6-Tribromophenol	8.392	330	365519	157.13	ppm	0.00
Spiked Amount 100.000	Range 33 - 118		Recovery = 157.13%#			
86) Terphenyl-d14	10.421	244	1505643	74.97	ppm	0.00
Spiked Amount 50.000	Range 39 - 121		Recovery = 149.94%#			
Target Compounds						Qvalue
2) 1,4-Dioxane	2.433	88	362128	75.68	ppm	76
3) N-nitrosodimethylamine	2.783	42	510829	87.33	ppm	94
4) Pyridine	2.772	79	942200	81.16	ppm	98
6) Benzaldehyde	4.681	106	508048	63.04	ppm	98
7) Aniline	4.806	93	1135300	76.92	ppm	84
8) bis(2-Chloroethyl)ether	4.860	93	759011	76.87	ppm	87
10) Phenol	4.820	94	1026108	76.01	ppm	96
11) 2-Chlorophenol	4.903	128	854833	77.70	ppm	97
12) 1,3-Dichlorobenzene	5.013	146	882027	74.33	ppm	96
13) 1,4-Dichlorobenzene	5.059	146	888237	74.93	ppm	96
14) 1,2-Dichlorobenzene	5.218	146	857509	75.92	ppm	97
15) Benzyl alcohol	5.192	108	545960	76.56	ppm	95
16) 2-Methylphenol	5.312	108	734832	78.11	ppm	96
17) bis(2-chloroisopropyl)...	5.323	45	1203174	73.93	ppm	91
18) Acetophenone	5.417	105	1087996	75.14	ppm	96
19) N-Nitroso-di-n-propyla...	5.445	70	455474	88.54	ppm	91
20) 3&4-Methylphenol	5.437	108	762219	76.95	ppm	98
21) Hexachloroethane	5.479	117	371303	77.03	ppm	86
24) Nitrobenzene	5.562	77	837591	73.11	ppm	90
25) Isophorone	5.764	82	1528958	73.47	ppm	96
26) 2-Nitrophenol	5.835	139	452496	72.80	ppm	94
27) 2,4-Dimethylphenol	5.883	107	797308	74.78	ppm	93
28) bis(2-Chloroethoxy)met...	5.960	93	870972	73.86	ppm	94
29) Benzoic Acid	6.025	105	670673m	86.44	ppm	
30) 2,4-Dichlorophenol	6.042	162	646606	72.30	ppm	95
31) 1,2,4-Trichlorobenzene	6.110	180	664352	71.77	ppm	97
32) Naphthalene	6.161	128	2047147	69.09	ppm	100

Quantitation Report (QT Reviewed)

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Data File : x039254.D
Acq On : 30 Mar 2015 5:08 pm
Operator : nareshj
Sample : ic1826-75
Misc : op55392,sx1826,1000,,,1,1,water
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Mar 31 09:22:15 2015
Quant Method : C:\msdchem\1\METHODS\8270d_0330.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Fri Mar 27 11:06:47 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
33) 4-Chloroaniline	6.232	127	1009536	75.10	ppm		99
34) 2,6-Dichlorophenol	6.042	162	646606	72.30	ppm		90
35) Hexachlorobutadiene	6.323	225	386706	74.67	ppm		96
36) Caprolactam	6.548	113	265341m	74.42	ppm		
37) 4-Chloro-3-methylphenol	6.667	107	701369	74.30	ppm		97
38) 2-Methylnaphthalene	6.761	142	1505540	71.09	ppm		99
39) 1-Methylnaphthalene	6.858	142	1369277	73.20	ppm		97
40) 1,2,4,5-Tetrachloroben...	6.946	216	660656	72.91	ppm		98
42) Hexachlorocyclopentadiene	6.963	237	452521	81.73	ppm		97
43) 2,4,6-Trichlorophenol	7.037	196	449112	74.21	ppm		100
44) 2,4,5-Trichlorophenol	7.076	196	472593	72.69	ppm		98
46) 1,1'-Biphenyl	7.179	154	1657503	67.43	ppm		88
47) 2-Chloronaphthalene	7.187	162	1318918	71.58	ppm		96
48) 2-Nitroaniline	7.307	65	524351	76.93	ppm		94
49) p-Dinitrobenzene	7.403	75	328264	79.26	ppm		90
50) Dimethylphthalate	7.500	163	1536892	72.77	ppm		98
51) m-Dinitrobenzene	7.508	168	276272	76.90	ppm	#	42
52) 2,6-Dinitrotoluene	7.554	165	371663	75.03	ppm		95
53) o-Dinitrobenzene	7.616	50	317196	76.32	ppm		95
54) Acenaphthylene	7.557	152	2066670	70.80	ppm		93
55) 3-Nitroaniline	7.307	138	538025	75.88	ppm	#	59
56) Acenaphthene	7.719	153	1350748	71.89	ppm	#	1
57) 2,4-Dinitrophenol	7.761	184	234998	118.27	ppm		93
58) 4-Nitrophenol	7.835	109	250497	85.59	ppm	#	62
59) Dibenzofuran	7.858	168	1857617	71.15	ppm		97
60) 2,4-Dinitrotoluene	7.895	165	505726	76.02	ppm		95
61) 2,3,5,6-Tetrachlorophenol	7.969	232	398035	78.87	ppm		93
62) 2,3,4,6-Tetrachlorophenol	8.008	232	383360	77.11	ppm		97
63) Diethylphthalate	8.119	149	1599376	74.04	ppm		96
64) Fluorene	8.159	166	1558625	72.47	ppm		98
65) 4-Chlorophenyl-phenyle...	8.162	204	721863	73.16	ppm		95
66) 4-Nitroaniline	8.224	138	426935	87.62	ppm		87
68) 4,6-Dinitro-2-methylph...	8.256	198	303953	94.58	ppm		84
69) Diphenylamine	8.275	169	1352177	73.76	ppm		98
70) n-Nitrosodiphenylamine	8.275	169	1352177	88.52	ppm		92
71) 1,2-Diphenylhydrazine	8.298	77	1576485	71.30	ppm		98
73) 4-Bromophenyl-phenylether	8.585	248	398051	74.76	ppm		90
74) Hexachlorobenzene	8.716	284	391093	76.71	ppm		96
75) Simazine	8.750	201	238504	157.75	ppm		94
76) Atrazine	8.781	200	443265	70.98	ppm		82
77) Pentachlorophenol	8.875	266	265039	85.44	ppm		100
78) Phenanthrene	9.000	178	2059674	71.10	ppm		93
79) Anthracene	9.040	178	2053330	71.48	ppm		93
80) Carbazole	9.188	167	1977913	76.21	ppm		94
81) Di-n-butylphthalate	9.546	149	2373046	68.88	ppm		96
82) Fluoranthene	10.051	202	2199788	74.05	ppm		91
84) Benzidine	10.174	184	932202	86.82	ppm		99
85) Pyrene	10.256	202	2239463	70.94	ppm		90
87) Butylbenzylphthalate	10.980	149	1102409	72.71	ppm		94
88) 3,3'-Dichlorobenzidine	11.606	252	584340	86.18	ppm		99

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Misc : op55392,sx1826,1000,,,1,1,water
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Mar 31 09:22:15 2015
Quant Method : C:\msdchem\1\METHODS\8270d_0330.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Fri Mar 27 11:06:47 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
89) Benzo[a]anthracene	11.603	228	1883295	77.18 ppm	95
90) Chrysene	11.665	228	1790367	78.05 ppm	98
91) bis(2-Ethylhexyl)phtha...	11.782	149	1480600	72.58 ppm	96
93) Di-n-octylphthalate	12.779	149	2262707	74.17 ppm	96
94) Benzo[b]fluoranthene	13.293	252	1447102	76.52 ppm	98
95) Benzo[k]fluoranthene	13.342	252	1462272	80.44 ppm	96
96) Benzo[a]pyrene	13.862	252	1364959	81.08 ppm	97
97) Indeno[1,2,3-cd]pyrene	16.038	276	936915	84.66 ppm	95
98) Dibenz[a,h]anthracene	16.106	278	892438	86.74 ppm	95
99) Benzo[g,h,i]perylene	16.496	276	1066443	85.43 ppm	94

(#) = qualifier out of range (m) = manual integration (+) = signals summed

7.6.28

7

Quantitation Report (QT Reviewed)

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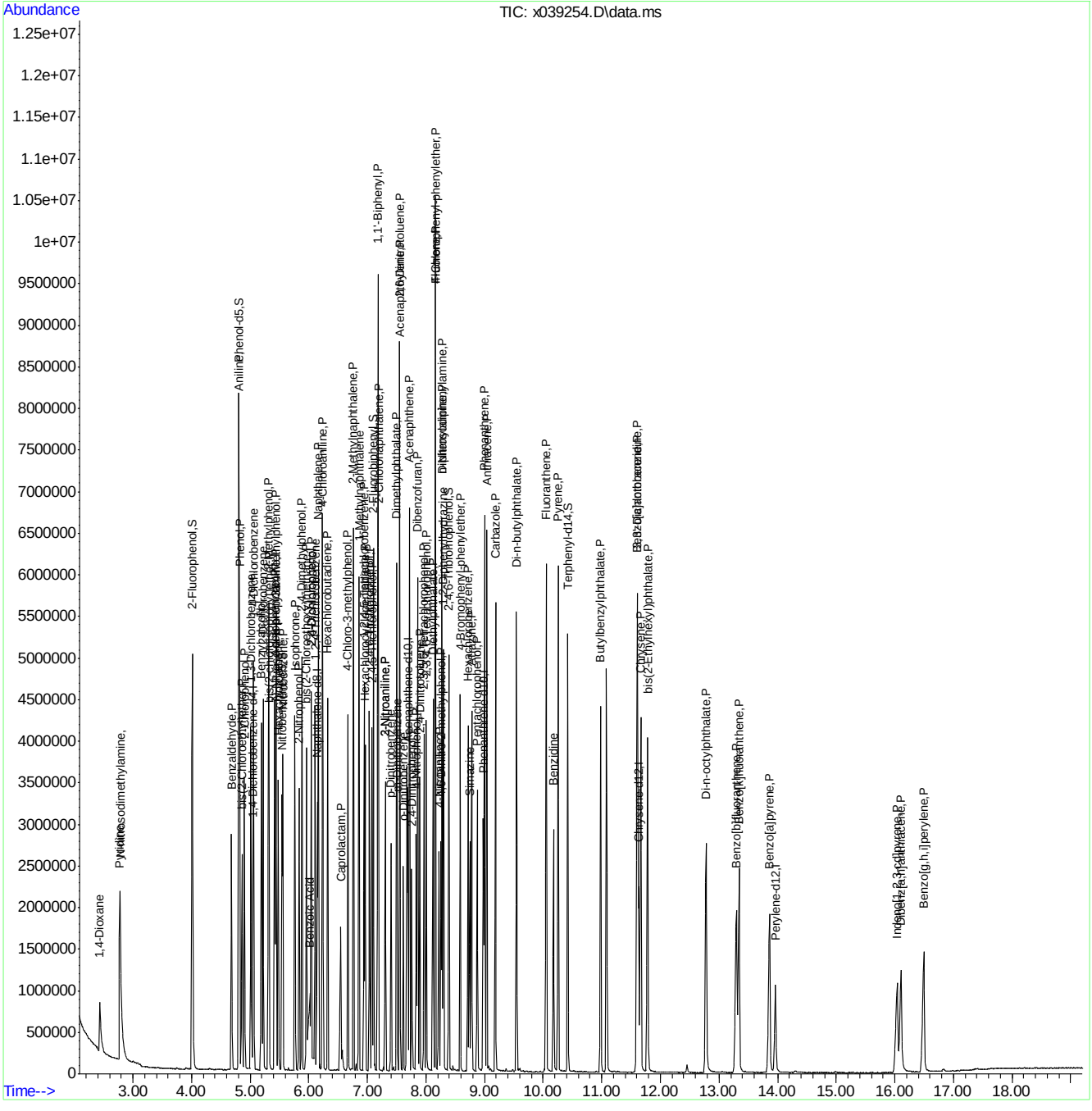

Manual Integration Approval Summary

Sample Number:	SX1826-IC1826	**Method:**	SW846 8270D
Lab FileID:	X039254.D	**Analyst approved:**	03/31/15 11:22 Martha Valls
Injection Time:	03/30/15 17:08	**Supervisor approved:**	03/31/15 15:24 Mike Eger

Parameter	CAS	Sig#	R.T. (min.)	Reason
Benzoic Acid	65-85-0		6.03	Split peak
Caprolactam	105-60-2		6.55	Split peak

Quantitation Report (Qedit)

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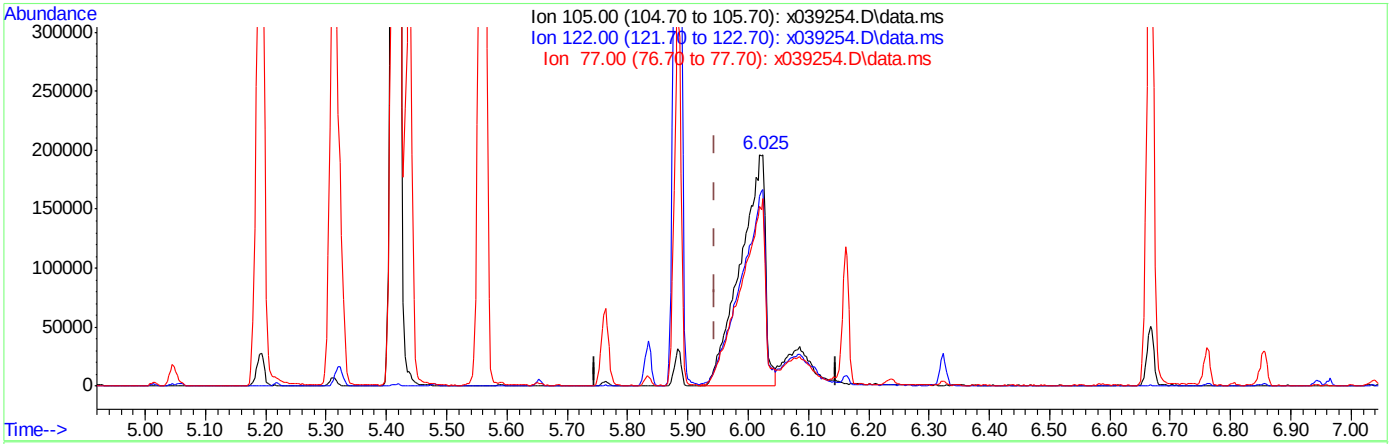

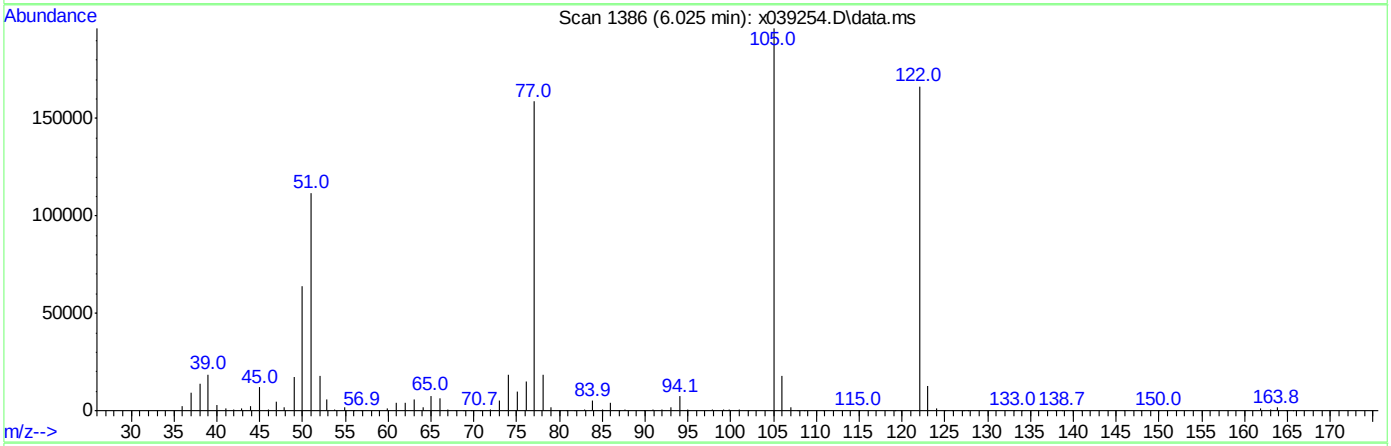

TIC: x039254.D\data.ms

(29) Benzoic Acid

6.025min (+0.080) 72.93ppm

response 565806

Ion	Exp%	Act%
105.00	100	100
122.00	71.80	84.49
77.00	80.10	80.17
0.00	0.00	0.00

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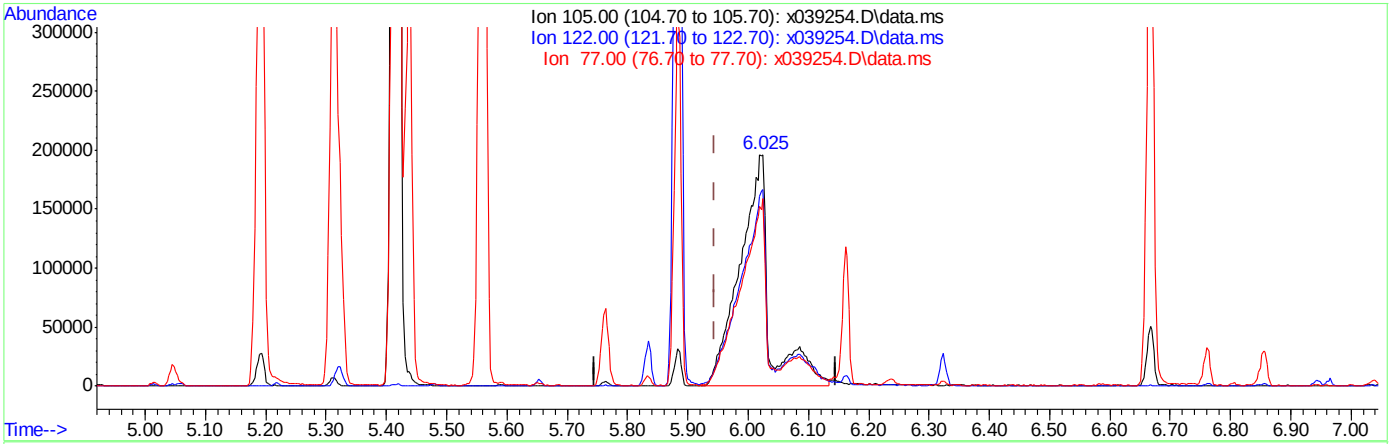

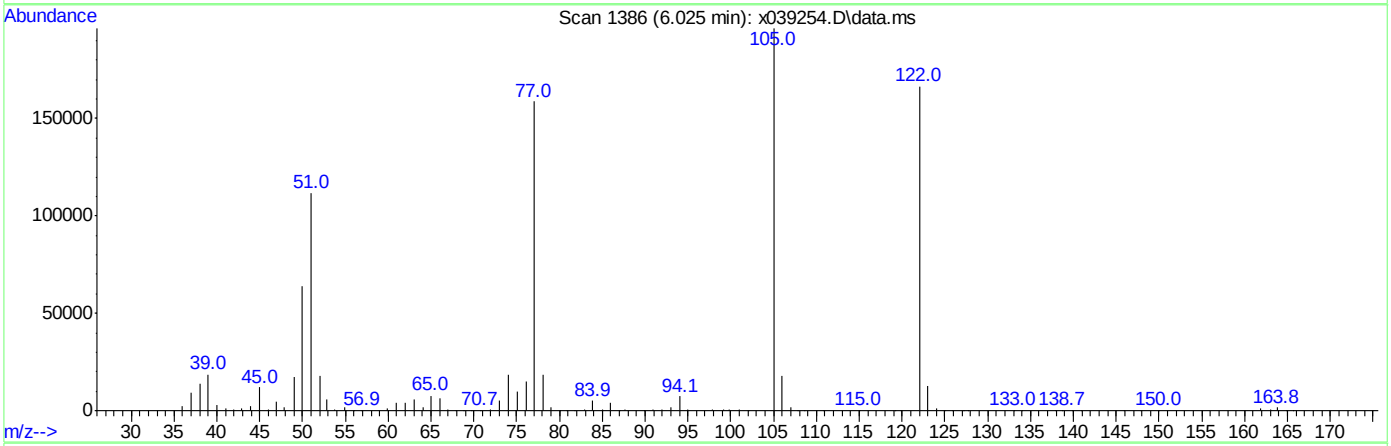

TIC: x039254.D\data.ms

(29) Benzoic Acid

6.025min (+0.080) 86.44ppm m

response 670673

Ion	Exp%	Act%
105.00	100	100
122.00	71.80	84.81
77.00	80.10	80.83
0.00	0.00	0.00

Quantitation Report (Qedit)

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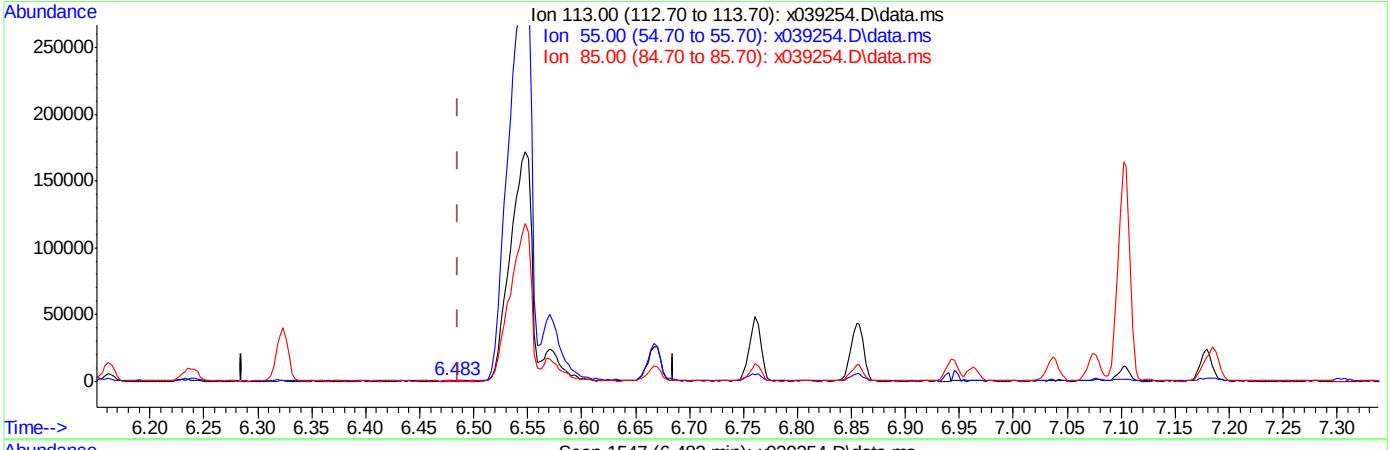
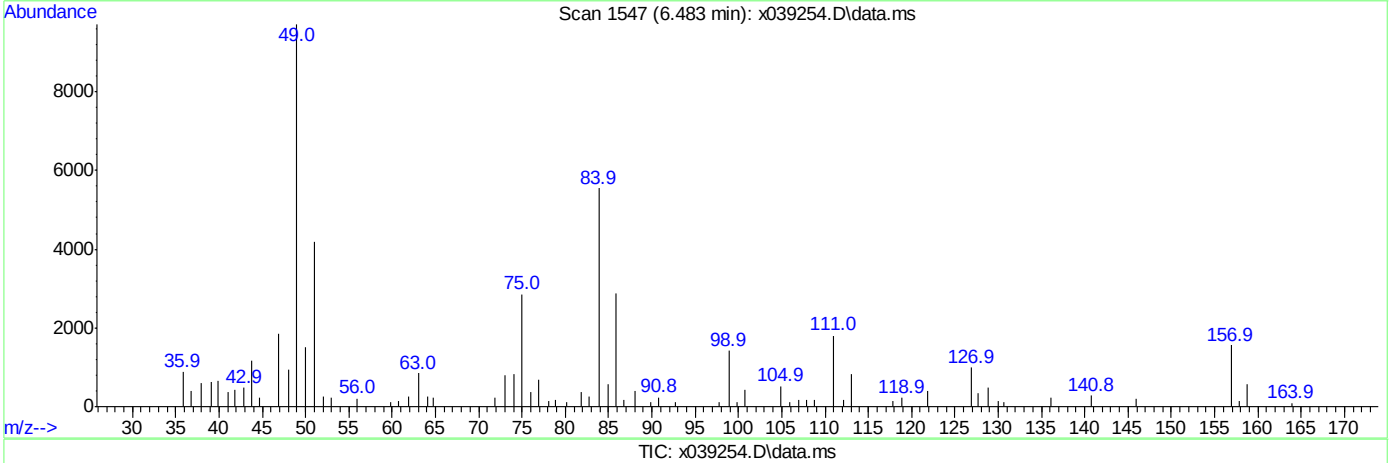
Quant Method : C:\msdchem\1\METHODS\8270d_0330.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Fri Mar 27 11:06:47 2015
Response via : Initial Calibration





TIC: x039254.D\data.ms

(36) Caprolactam (P)

6.483min (-0.003) 0.16ppm

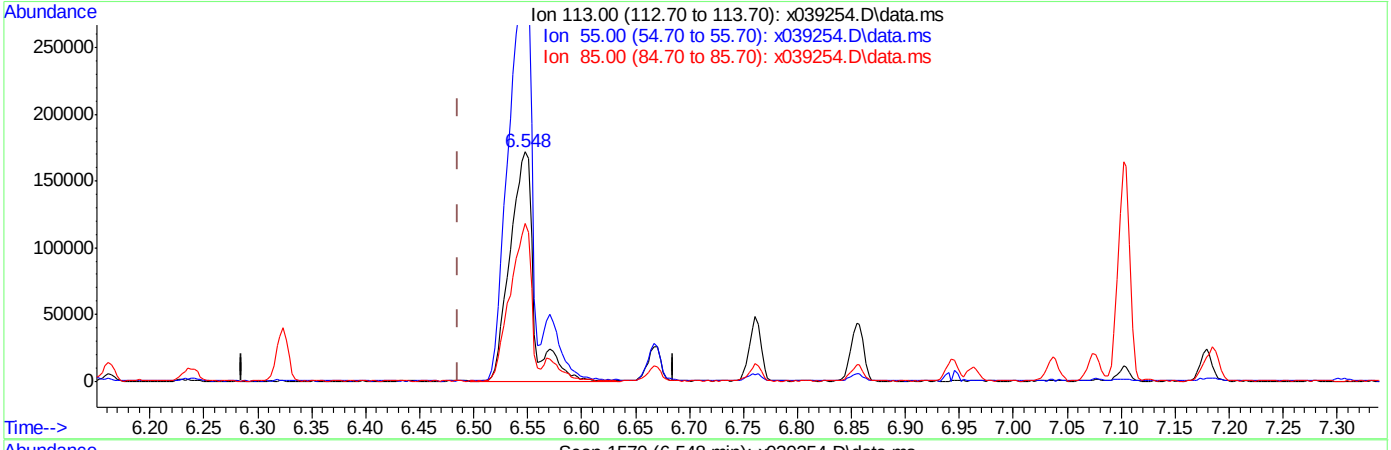
response 569

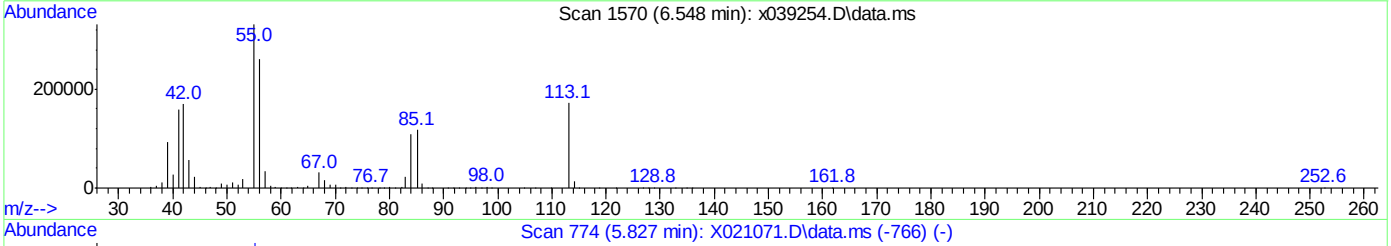
Ion	Exp%	Act%
113.00	100	100
55.00	140.60	0.00#
85.00	61.10	45.27
0.00	0.00	0.00

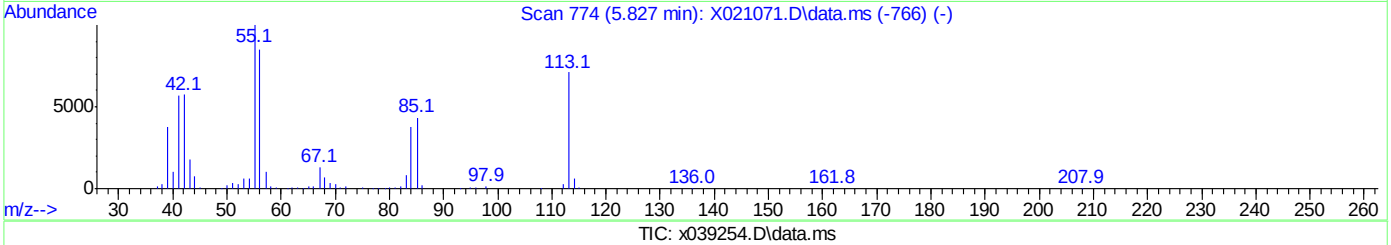
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\sx1826\
Data File : x039254.D
Acq On : 30 Mar 2015 5:08 pm
Operator : nareshj
Sample : ic1826-75
Misc : op55392,sx1826,1000,,,1,1,water
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Mar 31 09:21:47 2015
Quant Method : C:\msdchem\1\METHODS\8270d_0330.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Fri Mar 27 11:06:47 2015
Response via : Initial Calibration







TIC: x039254.D\data.ms

(36) Caprolactam (P)

6.548min (+0.062) 74.42ppm m

response 265341

Ion	Exp%	Act%
113.00	100	100
55.00	140.60	192.59#
85.00	61.10	68.58
0.00	0.00	0.00

X039255.D

Manual Integrations APPROVED (compounds with "m" flag)

Mike Eger
03/31/15 15:24

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\sx1826\
Data File : x039255.D
Acq On : 30 Mar 2015 5:32 pm
Operator : nareshj
Sample : ic1826-100
Misc : op55392,sx1826,1000,,,1,1,water
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Mar 31 09:24:05 2015
Quant Method : C:\msdchem\1\METHODS\8270d_0330.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Tue Mar 31 09:23:25 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	5.048	152	339674	40.00	ppm	0.00
22) Naphthalene-d8	6.147	136	1314705	40.00	ppm	0.00
41) Acenaphthene-d10	7.693	164	710768	40.00	ppm	0.00
67) Phenanthrene-d10	8.980	188	1102913	40.00	ppm	0.00
83) Chrysene-d12	11.631	240	966302	40.00	ppm	0.00
92) Perylene-d12	13.970	264	657770	40.00	ppm	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	4.013	112	2224509	186.15	ppm	0.00
Spiked Amount 100.000	Range 14 - 67		Recovery = 186.15%#			
9) Phenol-d5	4.817	99	2213594	165.54	ppm	0.02
Spiked Amount 100.000	Range 10 - 50		Recovery = 165.54%#			
23) Nitrobenzene-d5	5.548	82	1306523	94.90	ppm	0.01
Spiked Amount 50.000	Range 42 - 108		Recovery = 189.80%#			
45) 2-Fluorobiphenyl	7.108	172	2152761	89.19	ppm	0.01
Spiked Amount 50.000	Range 40 - 106		Recovery = 178.38%#			
72) 2,4,6-Tribromophenol	8.398	330	584752	228.21	ppm	0.00
Spiked Amount 100.000	Range 33 - 118		Recovery = 228.21%#			
86) Terphenyl-d14	10.424	244	2195421	97.46	ppm	0.00
Spiked Amount 50.000	Range 39 - 121		Recovery = 194.92%#			
Target Compounds						Qvalue
2) 1,4-Dioxane	2.436	88	531905	96.87	ppm	82
3) N-nitrosodimethylamine	2.789	42	734924	109.49	ppm	92
4) Pyridine	2.772	79	1394332	104.67	ppm	98
6) Benzaldehyde	4.684	106	597783	64.64	ppm	99
7) Aniline	4.809	93	1648938	97.36	ppm	89
8) bis(2-Chloroethyl)ether	4.863	93	1110513	98.01	ppm	89
10) Phenol	4.826	94	1476540	95.31	ppm	97
11) 2-Chlorophenol	4.903	128	1249967	99.01	ppm	96
12) 1,3-Dichlorobenzene	5.016	146	1332031	97.83	ppm	97
13) 1,4-Dichlorobenzene	5.062	146	1301746	95.70	ppm	97
14) 1,2-Dichlorobenzene	5.221	146	1233691	95.18	ppm	96
15) Benzyl alcohol	5.198	108	824501	100.76	ppm	91
16) 2-Methylphenol	5.318	108	1041716	96.49	ppm	99
17) bis(2-chloroisopropyl)...	5.326	45	1503306	80.50	ppm	98
18) Acetophenone	5.423	105	1564277	94.14	ppm	92
19) N-Nitroso-di-n-propyla...	5.451	70	632455	107.14	ppm	91
20) 3&4-Methylphenol	5.443	108	1119670	98.51	ppm	96
21) Hexachloroethane	5.482	117	543988	98.35	ppm	89
24) Nitrobenzene	5.565	77	1201991	93.29	ppm	90
25) Isophorone	5.769	82	2211141	94.47	ppm	94
26) 2-Nitrophenol	5.838	139	687477	98.34	ppm	93
27) 2,4-Dimethylphenol	5.889	107	1152806	96.14	ppm	92
28) bis(2-Chloroethoxy)met...	5.963	93	1238139	93.36	ppm	95
29) Benzoic Acid	6.051	105	1018091m	116.68	ppm	
30) 2,4-Dichlorophenol	6.048	162	971540	96.59	ppm	98
31) 1,2,4-Trichlorobenzene	6.113	180	1007136	96.74	ppm	95
32) Naphthalene	6.164	128	2755332	82.69	ppm	94

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\sx1826\
Data File : x039255.D
Acq On : 30 Mar 2015 5:32 pm
Operator : nareshj
Sample : ic1826-100
Misc : op55392,sx1826,1000,,,1,1,water
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Mar 31 09:24:05 2015
Quant Method : C:\msdchem\1\METHODS\8270d_0330.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Tue Mar 31 09:23:25 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
33) 4-Chloroaniline	6.238	127	1425602	94.30	ppm		97
34) 2,6-Dichlorophenol	6.048	162	971540	96.59	ppm		93
35) Hexachlorobutadiene	6.326	225	572660	98.33	ppm		98
36) Caprolactam	6.568	113	397408m	99.11	ppm		
37) 4-Chloro-3-methylphenol	6.673	107	1032067	97.22	ppm		96
38) 2-Methylnaphthalene	6.764	142	2091091	87.79	ppm		97
39) 1-Methylnaphthalene	6.860	142	1929683	91.73	ppm		97
40) 1,2,4,5-Tetrachloroben...	6.949	216	977535	95.92	ppm		98
42) Hexachlorocyclopentadiene	6.966	237	707680	115.70	ppm		97
43) 2,4,6-Trichlorophenol	7.042	196	685534	102.54	ppm		99
44) 2,4,5-Trichlorophenol	7.079	196	732858	102.04	ppm		98
46) 1,1'-Biphenyl	7.182	154	2229636	82.12	ppm		83
47) 2-Chloronaphthalene	7.190	162	1907165	93.70	ppm		93
48) 2-Nitroaniline	7.312	65	751871	99.86	ppm		97
49) p-Dinitrobenzene	7.409	75	487096	106.48	ppm		94
50) Dimethylphthalate	7.505	163	2125227	91.10	ppm		95
51) m-Dinitrobenzene	7.514	168	418666	105.49	ppm	#	44
52) 2,6-Dinitrotoluene	7.559	165	544000	99.42	ppm		88
53) o-Dinitrobenzene	7.622	50	449963	98.01	ppm		97
54) Acenaphthylene	7.559	152	2771611	85.95	ppm		85
55) 3-Nitroaniline	7.312	138	790427	100.92	ppm	#	60
56) Acenaphthene	7.724	153	1915306	92.28	ppm	#	1
57) 2,4-Dinitrophenol	7.767	184	362737	165.27	ppm		92
58) 4-Nitrophenol	7.844	109	389286	120.42	ppm	#	72
59) Dibenzofuran	7.861	168	2586684	89.70	ppm		90
60) 2,4-Dinitrotoluene	7.903	165	758578	103.22	ppm		91
61) 2,3,5,6-Tetrachlorophenol	7.971	232	602518	108.08	ppm		95
62) 2,3,4,6-Tetrachlorophenol	8.011	232	571278	104.03	ppm		93
63) Diethylphthalate	8.125	149	2213690	92.77	ppm		91
64) Fluorene	8.165	166	2134343	89.84	ppm		99
65) 4-Chlorophenyl-phenyle...	8.165	204	1078017	98.91	ppm		97
66) 4-Nitroaniline	8.233	138	639603	118.84	ppm		86
68) 4,6-Dinitro-2-methylph...	8.264	198	464983	131.36	ppm		89
69) Diphenylamine	8.281	169	1895846	93.90	ppm		93
70) n-Nitrosodiphenylamine	8.281	169	1895846	112.67	ppm		88
71) 1,2-Diphenylhydrazine	8.304	77	2149917	88.28	ppm		88
73) 4-Bromophenyl-phenylether	8.588	248	600816	102.45	ppm		94
74) Hexachlorobenzene	8.719	284	605827	107.88	ppm		99
75) Simazine	8.759	201	364558	218.91	ppm		92
76) Atrazine	8.787	200	725770	105.52	ppm		86
77) Pentachlorophenol	8.878	266	412029	120.59	ppm		97
78) Phenanthrene	9.003	178	2823391	88.48	ppm		86
79) Anthracene	9.043	178	2785683	88.04	ppm		86
80) Carbazole	9.190	167	2748145	96.13	ppm		89
81) Di-n-butylphthalate	9.548	149	3095516	81.57	ppm		91
82) Fluoranthene	10.057	202	2954238	90.28	ppm		86
84) Benzidine	10.176	184	1150021	95.49	ppm		99
85) Pyrene	10.259	202	3162622	89.32	ppm		83
87) Butylbenzylphthalate	10.983	149	1582003	93.02	ppm		94
88) 3,3'-Dichlorobenzidine	11.611	252	829134	109.02	ppm		99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\sx1826\
Data File : x039255.D
Acq On : 30 Mar 2015 5:32 pm
Operator : nareshj
Sample : ic1826-100
Misc : op55392,sx1826,1000,,,1,1,water
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Mar 31 09:24:05 2015
Quant Method : C:\msdchem\1\METHODS\8270d_0330.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Tue Mar 31 09:23:25 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
89) Benzo[a]anthracene	11.608	228	2799585	102.29 ppm	95
90) Chrysene	11.671	228	2577362	100.17 ppm	94
91) bis(2-Ethylhexyl)phtha...	11.785	149	2122601	92.77 ppm	95
93) Di-n-octylphthalate	12.782	149	3274717	95.36 ppm	94
94) Benzo[b]fluoranthene	13.305	252	2184328	102.61 ppm	97
95) Benzo[k]fluoranthene	13.353	252	2108743	103.06 ppm	96
96) Benzo[a]pyrene	13.873	252	2038822	107.59 ppm	96
97) Indeno[1,2,3-cd]pyrene	16.047	276	1411849	113.34 ppm	95
98) Dibenz[a,h]anthracene	16.121	278	1368336	118.15 ppm	97
99) Benzo[g,h,i]perylene	16.504	276	1541717	109.72 ppm	92

(#) = qualifier out of range (m) = manual integration (+) = signals summed

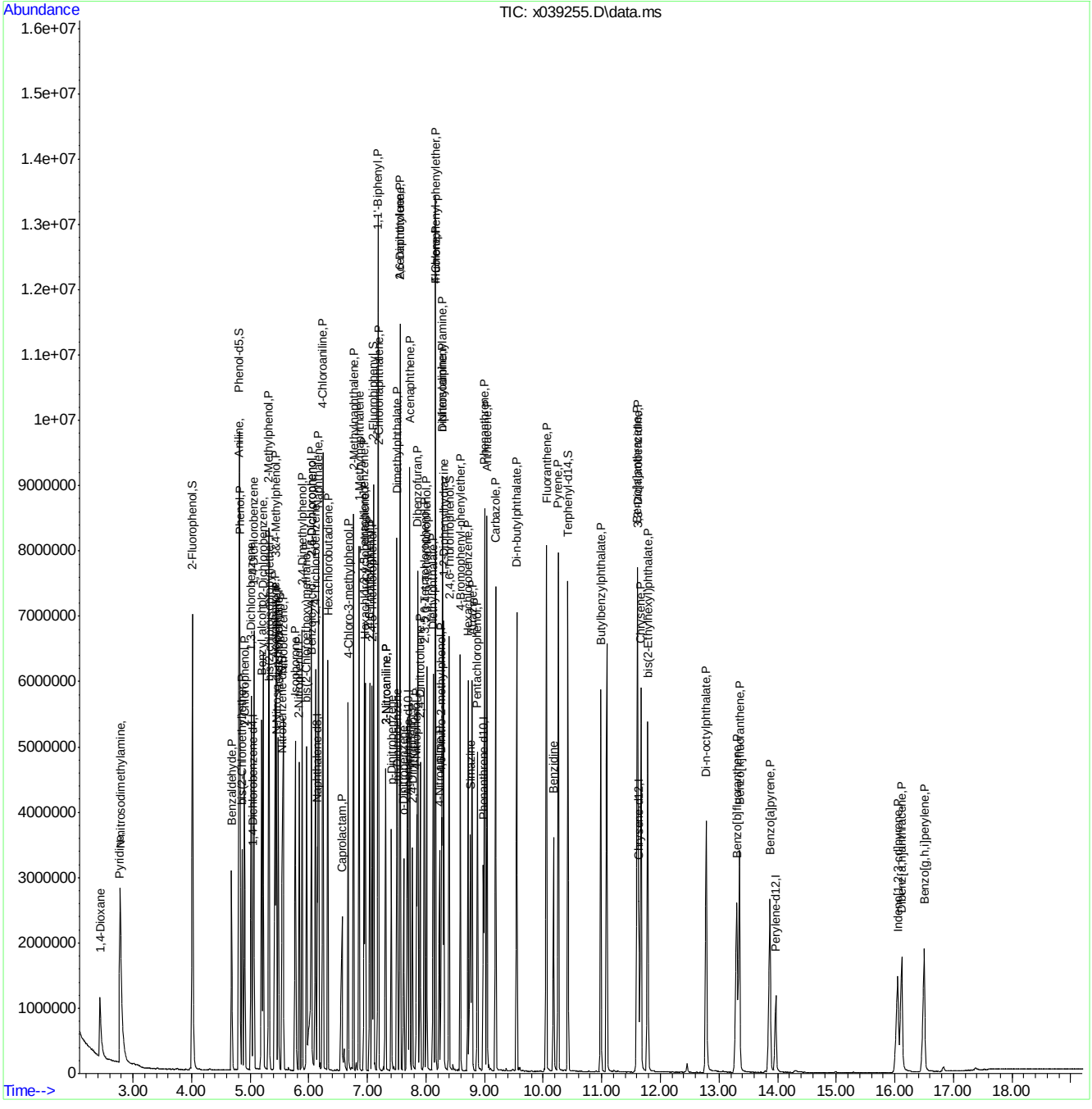
7.6.29

7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\sx1826\
Data File : x039255.D
Acq On : 30 Mar 2015 5:32 pm
Operator : nareshj
Sample : ic1826-100
Misc : op55392,sx1826,1000,,,1,1,water
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Mar 31 09:24:05 2015
Quant Method : C:\msdchem\1\METHODS\8270d_0330.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Tue Mar 31 09:23:25 2015
Response via : Initial Calibration



ACCUTEST LABORATORIES FA23189

Manual Integration Approval Summary

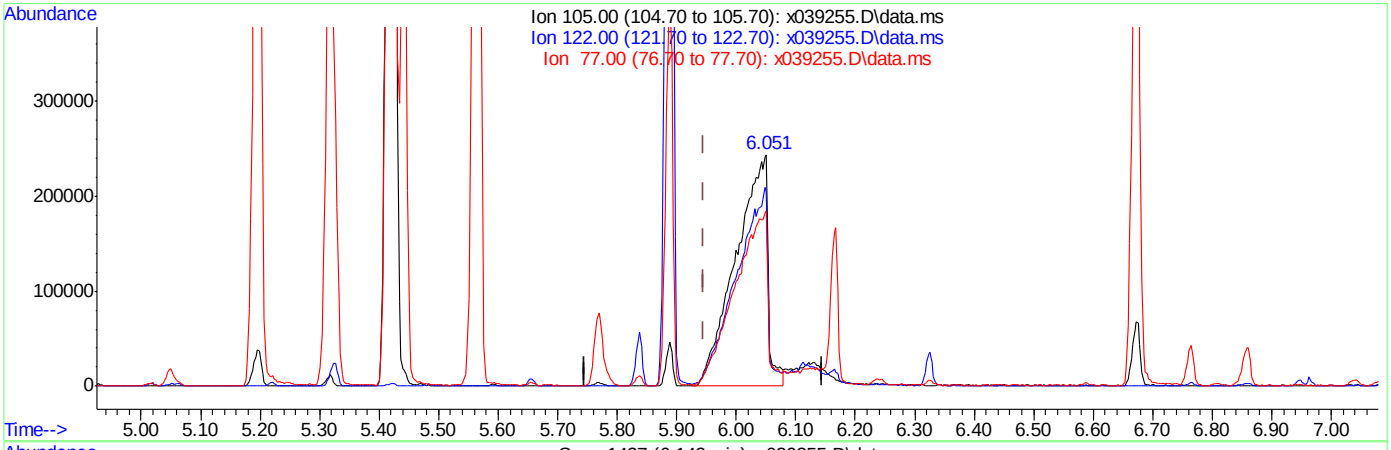
Sample Number:	SX1826-IC1826	**Method:**	SW846 8270D	
Lab FileID:	X039255.D	**Analyst approved:**	03/31/15 11:22	Martha Valls
Injection Time:	03/30/15 17:32	**Supervisor approved:**	03/31/15 15:24	Mike Eger

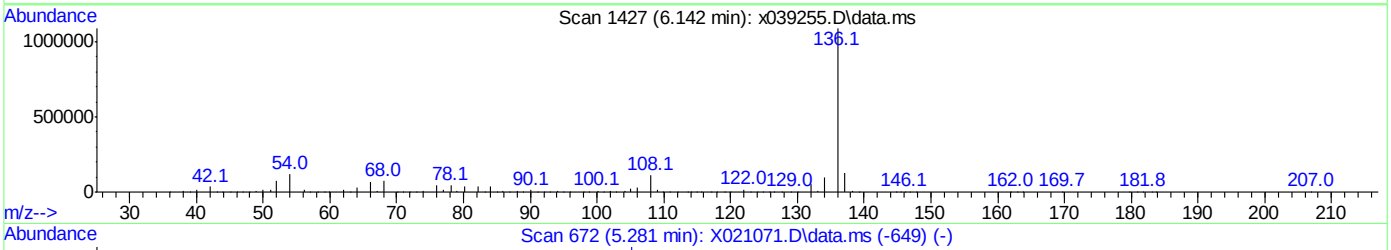
Parameter	CAS	Sig#	R.T. (min.)	Reason
Benzoic Acid	65-85-0		6.05	Split peak
Caprolactam	105-60-2		6.57	Split peak

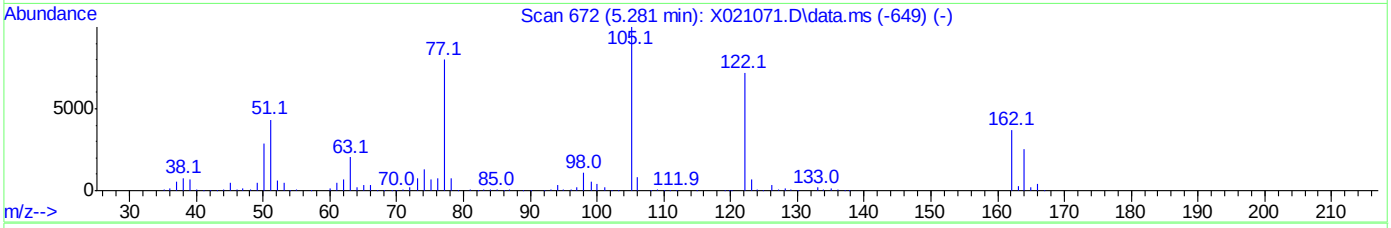
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\sx1826\
Data File : x039255.D
Acq On : 30 Mar 2015 5:32 pm
Operator : nareshj
Sample : ic1826-100
Misc : op55392,sx1826,1000,,,1,1,water
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Mar 31 09:23:37 2015
Quant Method : C:\msdchem\1\METHODS\8270d_0330.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Tue Mar 31 09:23:25 2015
Response via : Initial Calibration







TIC: x039255.D\data.ms

(29) Benzoic Acid

6.051min (+0.105) 104.30ppm

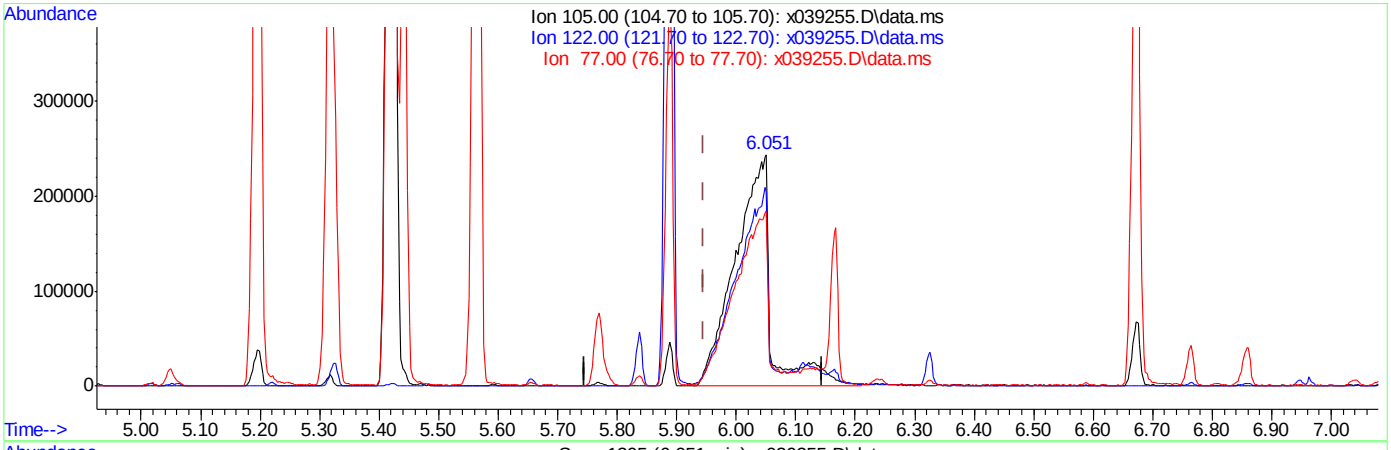
response 910087

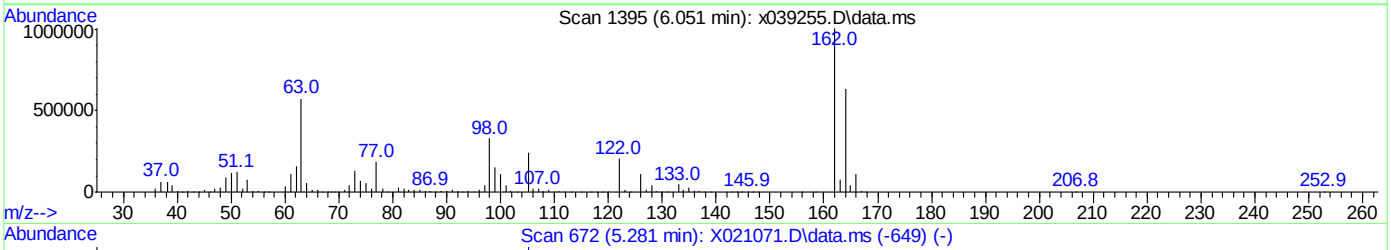
Ion	Exp%	Act%
105.00	100	100
122.00	71.80	83.31
77.00	80.10	74.90
0.00	0.00	0.00

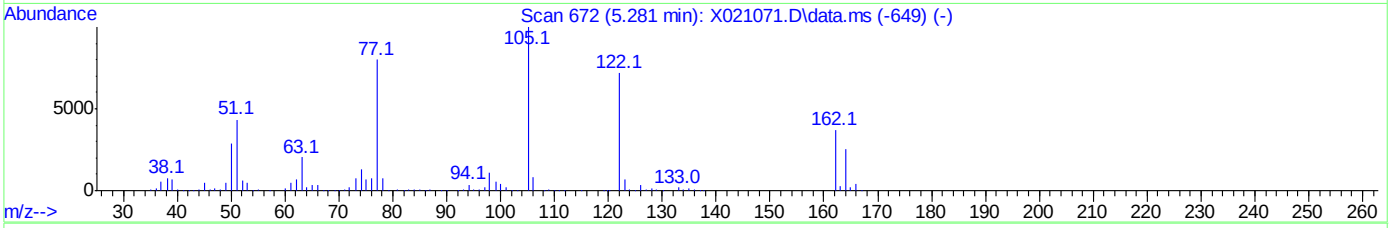
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\sx1826\
Data File : x039255.D
Acq On : 30 Mar 2015 5:32 pm
Operator : nareshj
Sample : ic1826-100
Misc : op55392,sx1826,1000,,,1,1,water
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Mar 31 09:23:37 2015
Quant Method : C:\msdchem\1\METHODS\8270d_0330.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Tue Mar 31 09:23:25 2015
Response via : Initial Calibration







TIC: x039255.D\data.ms

(29) Benzoic Acid

6.051min (+0.105) 116.68ppm m

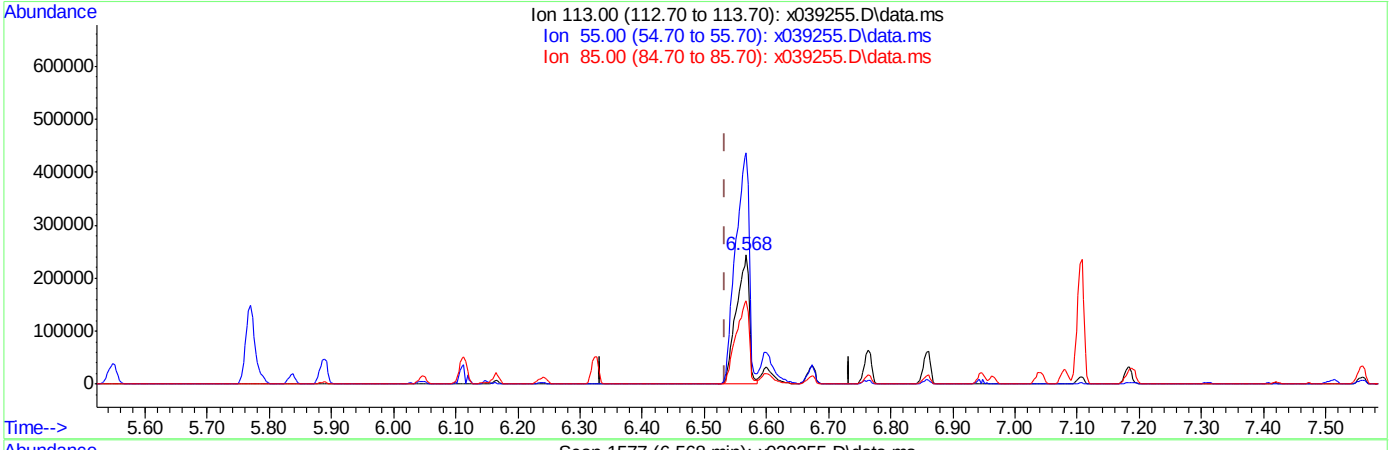
response 1018091

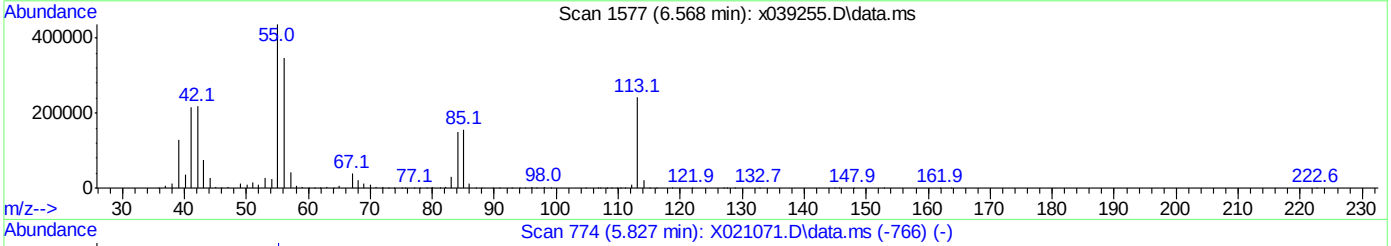
Ion	Exp%	Act%
105.00	100	100
122.00	71.80	83.67
77.00	80.10	75.56
0.00	0.00	0.00

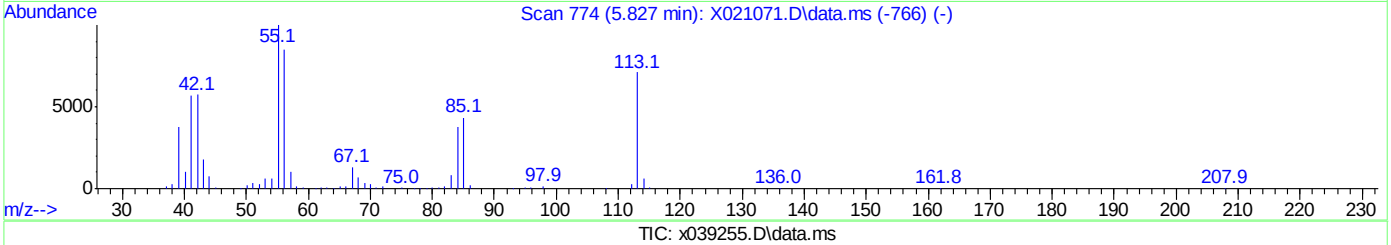
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\sx1826\
Data File : x039255.D
Acq On : 30 Mar 2015 5:32 pm
Operator : nareshj
Sample : ic1826-100
Misc : op55392,sx1826,1000,,,1,1,water
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Mar 31 09:23:37 2015
Quant Method : C:\msdchem\1\METHODS\8270d_0330.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Tue Mar 31 09:23:25 2015
Response via : Initial Calibration







TIC: x039255.D\data.ms

(36) Caprolactam (P)

6.568min (+0.034) 87.65ppm

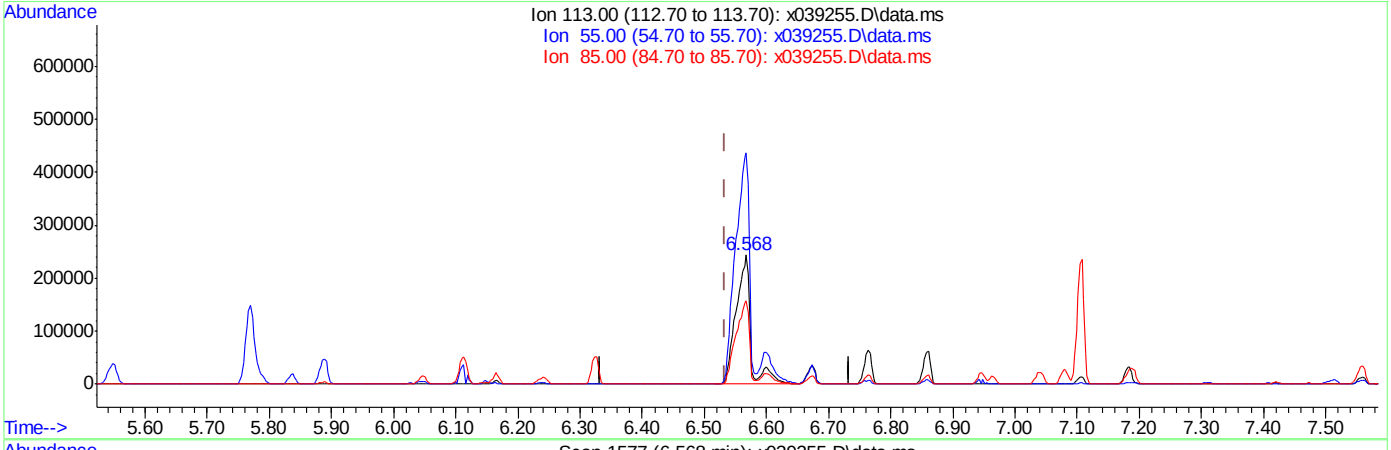
response 351431

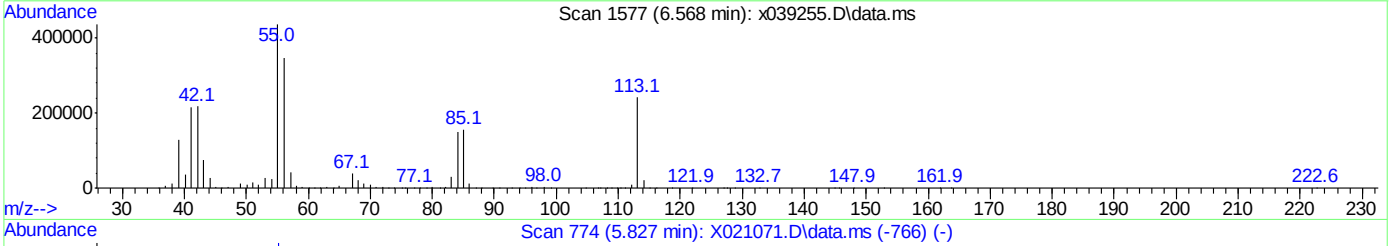
Ion	Exp%	Act%
113.00	100	100
55.00	199.50	178.96
85.00	66.50	64.24
0.00	0.00	0.00

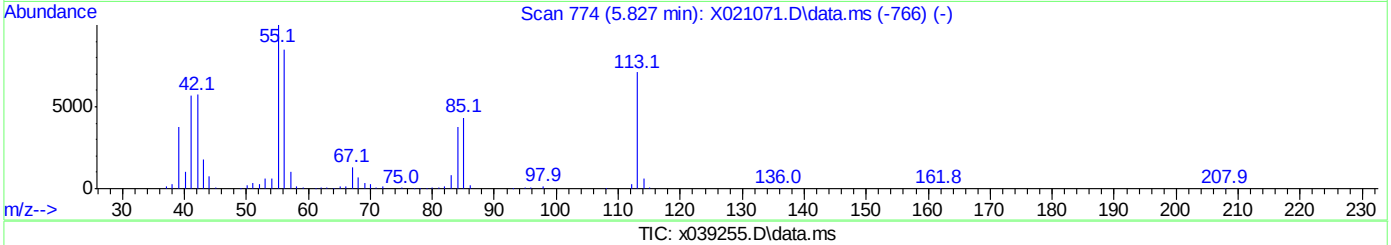
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\sx1826\
Data File : x039255.D
Acq On : 30 Mar 2015 5:32 pm
Operator : nareshj
Sample : ic1826-100
Misc : op55392,sx1826,1000,,,1,1,water
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Mar 31 09:23:37 2015
Quant Method : C:\msdchem\1\METHODS\8270d_0330.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Tue Mar 31 09:23:25 2015
Response via : Initial Calibration







TIC: x039255.D\data.ms

(36) Caprolactam (P)

6.568min (+0.034) 99.11ppm m

response 397408

Ion	Exp%	Act%
113.00	100	100
55.00	199.50	179.47
85.00	66.50	64.47
0.00	0.00	0.00

Manual Integrations APPROVED (compounds with "m" flag)
Mike Eger
03/31/15 15:24

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\sx1826\
Data File : x039256.D
Acq On : 30 Mar 2015 5:57 pm
Operator : nareshj
Sample : icv1826-50
Misc : op55392,sx1826,1000,,,1,1,water
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Mar 31 09:35:50 2015
Quant Method : C:\msdchem\1\METHODS\8270d_0330.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Tue Mar 31 09:29:41 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	5.048	152	342000	40.00	ppm	0.00
22) Naphthalene-d8	6.144	136	1266584	40.00	ppm	0.00
41) Acenaphthene-d10	7.687	164	680571	40.00	ppm	0.00
67) Phenanthrene-d10	8.977	188	1052429	40.00	ppm	0.00
83) Chrysene-d12	11.623	240	866594	40.00	ppm	0.00
92) Perylene-d12	13.961	264	597189	40.00	ppm	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	0.000	112	0d	0.00	ppm	
Spiked Amount 100.000	Range 14 - 67		Recovery = 0.00%#			
9) Phenol-d5	0.000	99	0d	0.00	ppm	
Spiked Amount 100.000	Range 10 - 50		Recovery = 0.00%#			
23) Nitrobenzene-d5	0.000	82	0d	0.00	ppm	
Spiked Amount 50.000	Range 42 - 108		Recovery = 0.00%#			
45) 2-Fluorobiphenyl	0.000	172	0d	0.00	ppm	
Spiked Amount 50.000	Range 40 - 106		Recovery = 0.00%#			
72) 2,4,6-Tribromophenol	0.000	330	0	0.00	ppm	
Spiked Amount 100.000	Range 33 - 118		Recovery = 0.00%#			
86) Terphenyl-d14	0.000	244	0d	0.00	ppm	
Spiked Amount 50.000	Range 39 - 121		Recovery = 0.00%#			
Target Compounds						Qvalue
2) 1,4-Dioxane	2.476	88	328385	61.19	ppm	97
3) N-nitrosodimethylamine	2.820	42	379951	48.67	ppm	98
8) bis(2-Chloroethyl)ether	4.860	93	559239	47.59	ppm	98
10) Phenol	4.817	94	747712	45.88	ppm	95
11) 2-Chlorophenol	4.906	128	642835	49.01	ppm	98
12) 1,3-Dichlorobenzene	5.016	146	659601	47.33	ppm	98
13) 1,4-Dichlorobenzene	5.062	146	673353	48.31	ppm	99
14) 1,2-Dichlorobenzene	5.221	146	635722	47.86	ppm	95
16) 2-Methylphenol	5.312	108	532392	46.61	ppm	95
17) bis(2-chloroisopropyl)...	5.323	45	967663	44.99	ppm	90
18) Acetophenone	5.414	105	903257	52.31	ppm	97
19) N-Nitroso-di-n-propyla...	5.443	70	320810	47.47	ppm	97
20) 3&4-Methylphenol	5.440	108	1107342	92.39	ppm	97
21) Hexachloroethane	5.482	117	273758	47.96	ppm	95
24) Nitrobenzene	5.559	77	621402	48.92	ppm	98
25) Isophorone	5.761	82	1058683	45.56	ppm	96
26) 2-Nitrophenol	5.835	139	352134	53.45	ppm	100
27) 2,4-Dimethylphenol	5.883	107	615887	51.22	ppm	98
28) bis(2-Chloroethoxy)met...	5.960	93	635218	48.14	ppm	98
29) Benzoic Acid	6.048	105	981811	107.37	ppm	99
30) 2,4-Dichlorophenol	6.042	162	472209	48.65	ppm	99
31) 1,2,4-Trichlorobenzene	6.110	180	467002	47.20	ppm	98
32) Naphthalene	6.161	128	1633192	50.02	ppm	92
34) 2,6-Dichlorophenol	6.042	162	472209	48.65	ppm	99
35) Hexachlorobutadiene	6.323	225	296407	53.61	ppm	93
36) Caprolactam	6.537	113	177828m	45.16	ppm	
37) 4-Chloro-3-methylphenol	6.664	107	507595	48.24	ppm	98

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\sx1826\
Data File : x039256.D
Acq On : 30 Mar 2015 5:57 pm
Operator : nareshj
Sample : icv1826-50
Misc : op55392,sx1826,1000,,,1,1,water
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Mar 31 09:35:50 2015
Quant Method : C:\msdchem\1\METHODS\8270d_0330.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Tue Mar 31 09:29:41 2015
Response via : Initial Calibration

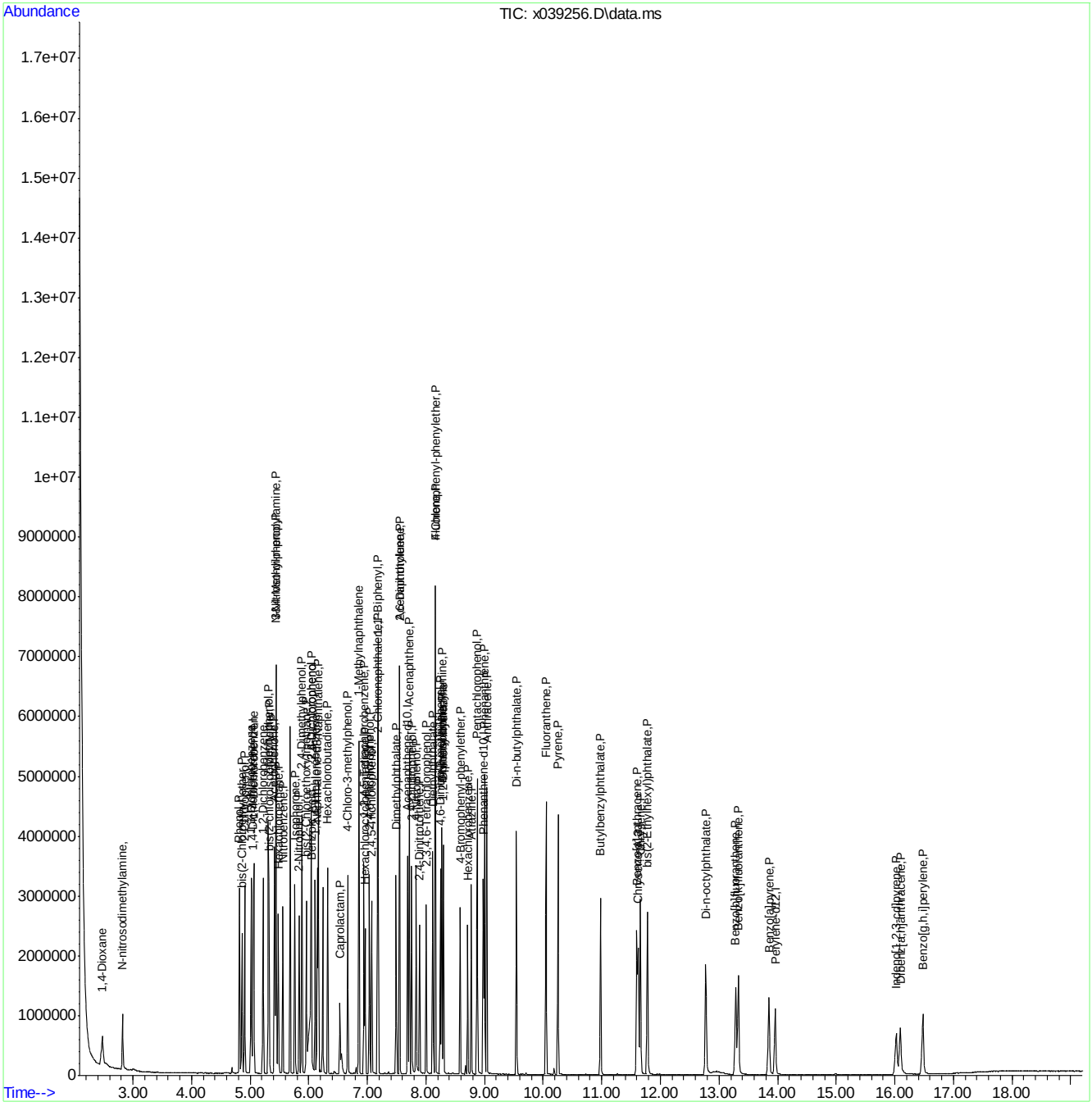
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) 1-Methylnaphthalene	6.855	142	1218804	59.22	ppm	99
40) 1,2,4,5-Tetrachloroben...	6.943	216	454377	47.00	ppm	96
42) Hexachlorocyclopentadiene	6.963	237	273982	44.92	ppm	96
43) 2,4,6-Trichlorophenol	7.037	196	329085	51.09	ppm	98
44) 2,4,5-Trichlorophenol	7.074	196	342074	49.83	ppm	97
46) 1,1'-Biphenyl	7.176	154	1228149	47.37	ppm	91
47) 2-Chloronaphthalene	7.184	162	953460	47.59	ppm	95
50) Dimethylphthalate	7.491	163	1096698	48.62	ppm	96
52) 2,6-Dinitrotoluene	7.551	165	243456	46.02	ppm	86
54) Acenaphthylene	7.551	152	1597056	50.63	ppm	90
56) Acenaphthene	7.716	153	1004562	49.48	ppm	96
57) 2,4-Dinitrophenol	7.756	184	368334	104.02	ppm	99
58) 4-Nitrophenol	7.835	109	334907	91.09	ppm	94
60) 2,4-Dinitrotoluene	7.889	165	343049	47.62	ppm	86
62) 2,3,4,6-Tetrachlorophenol	8.006	232	245569	46.38	ppm	96
63) Diethylphthalate	8.116	149	1083575	46.52	ppm	95
64) Fluorene	8.159	166	1145413	49.36	ppm	98
65) 4-Chlorophenyl-phenyle...	8.159	204	501598	47.82	ppm	94
68) 4,6-Dinitro-2-methylph...	8.250	198	409570	93.23	ppm	93
69) Diphenylamine	8.273	169	795028	40.70	ppm	94
70) n-Nitrosodiphenylamine	8.273	169	795028	48.85	ppm	94
71) 1,2-Diphenylhydrazine	8.298	77	1105689	46.40	ppm	90
73) 4-Bromophenyl-phenylether	8.582	248	235771	42.89	ppm	88
74) Hexachlorobenzene	8.713	284	210962	39.96	ppm	86
76) Atrazine	8.773	200	277925	42.54	ppm	92
77) Pentachlorophenol	8.875	266	424265	124.48	ppm	96
78) Phenanthrene	8.997	178	1510656	48.86	ppm	90
79) Anthracene	9.037	178	1545009	50.09	ppm	90
81) Di-n-butylphthalate	9.543	149	1706268	47.02	ppm	93
82) Fluoranthene	10.049	202	1555234	48.66	ppm	93
85) Pyrene	10.253	202	1592662	49.72	ppm	91
87) Butylbenzylphthalate	10.981	149	761641	49.77	ppm	99
89) Benzo[a]anthracene	11.600	228	1235419	49.41	ppm	98
90) Chrysene	11.660	228	1185339	49.96	ppm	96
91) bis(2-Ethylhexyl)phtha...	11.779	149	989546	48.84	ppm	97
93) Di-n-octylphthalate	12.774	149	1504657	49.20	ppm	97
94) Benzo[b]fluoranthene	13.285	252	980573	51.24	ppm	100
95) Benzo[k]fluoranthene	13.333	252	979798	49.91	ppm	96
96) Benzo[a]pyrene	13.853	252	874862	50.95	ppm	98
97) Indeno[1,2,3-cd]pyrene	16.024	276	565239	48.15	ppm	99
98) Dibenz[a,h]anthracene	16.095	278	556499	50.53	ppm	97
99) Benzo[g,h,i]perylene	16.482	276	698362	54.74	ppm	99

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\sx1826\
Data File : x039256.D
Acq On : 30 Mar 2015 5:57 pm
Operator : nareshj
Sample : icv1826-50
Misc : op55392,sx1826,1000,,,1,1,water
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Mar 31 09:35:50 2015
Quant Method : C:\msdchem\1\METHODS\8270d_0330.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Tue Mar 31 09:29:41 2015
Response via : Initial Calibration



Manual Integration Approval Summary

Sample Number:	SX1826-ICV1826	**Method:**	SW846 8270D
Lab FileID:	X039256.D	**Analyst approved:**	03/31/15 11:22 Martha Valls
Injection Time:	03/30/15 17:57	**Supervisor approved:**	03/31/15 15:24 Mike Eger

Parameter	CAS	Sig#	R.T. (min.)	Reason
Caprolactam	105-60-2		6.54	Split peak

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\DATA\sx1826\
Data File : x039256.D
Acq On    : 30 Mar 2015   5:57 pm
Operator  : nareshj
Sample    : icv1826-50
Misc      : op55392,sx1826,1000,,,1,1,water
ALS Vial  : 11   Sample Multiplier: 1

Quant Time: Mar 31 09:35:39 2015
Quant Method : C:\msdchem\1\METHODS\8270d_0330.m
Quant Title  : SW846 8270D OR EPA 625
QLast Update : Tue Mar 31 09:29:41 2015
Response via : Initial Calibration
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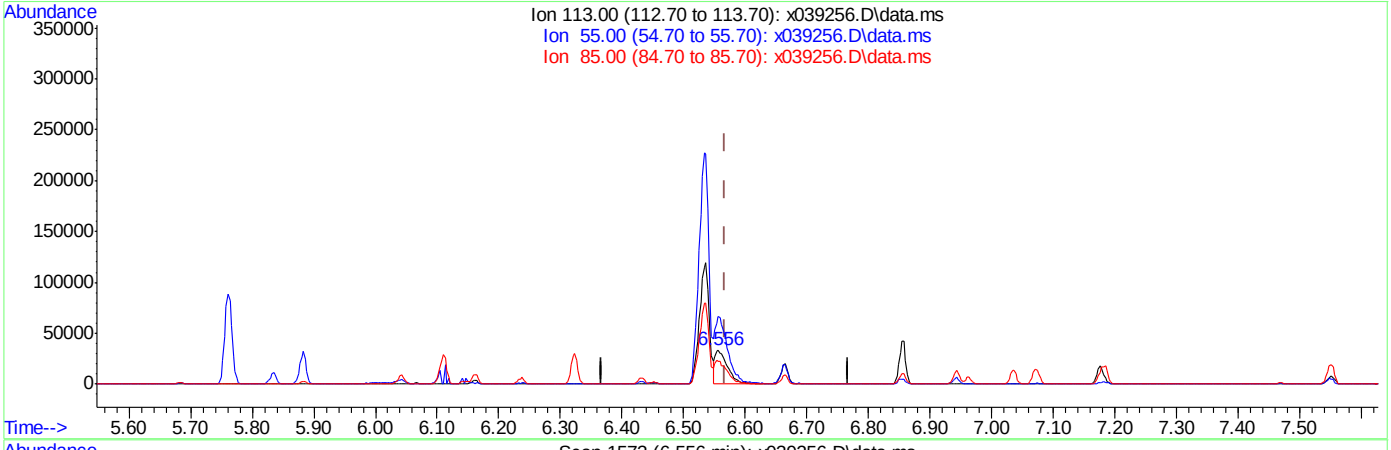
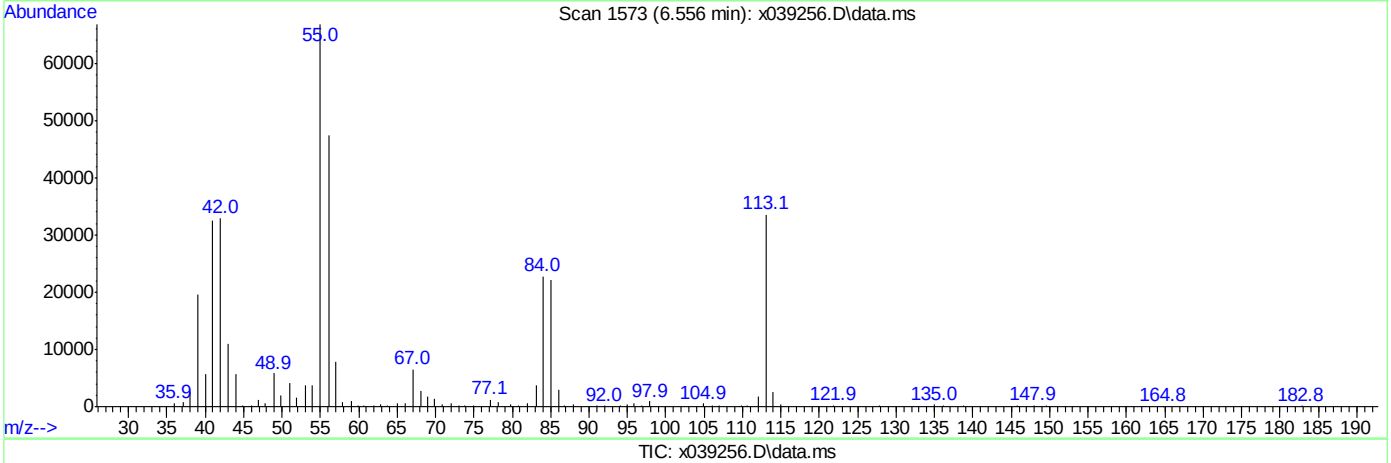




TIC: x039256.D\data.ms

(36) Caprolactam (P)

6.556min (-0.012) 12.16ppm

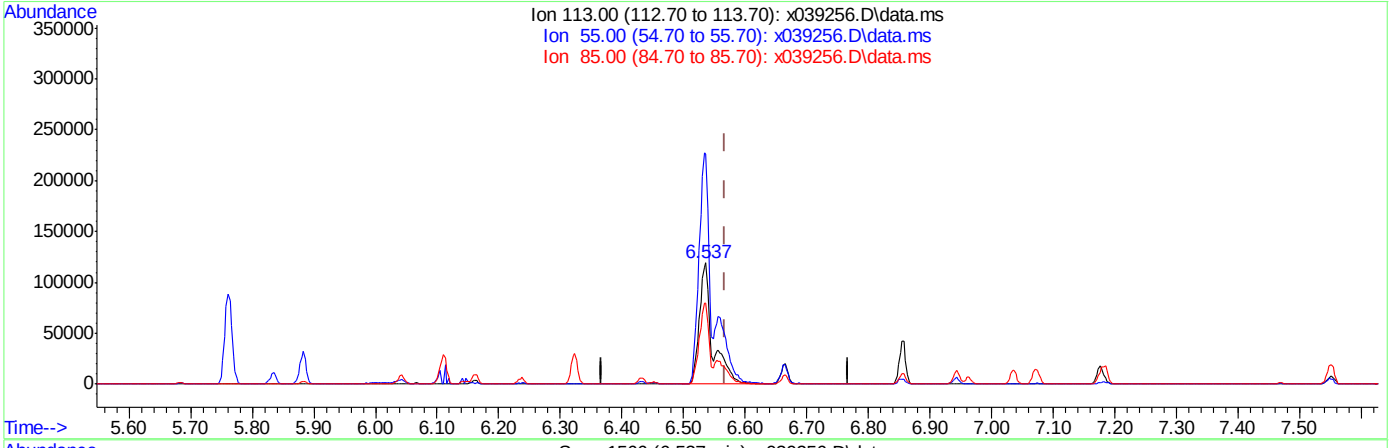
response 47877

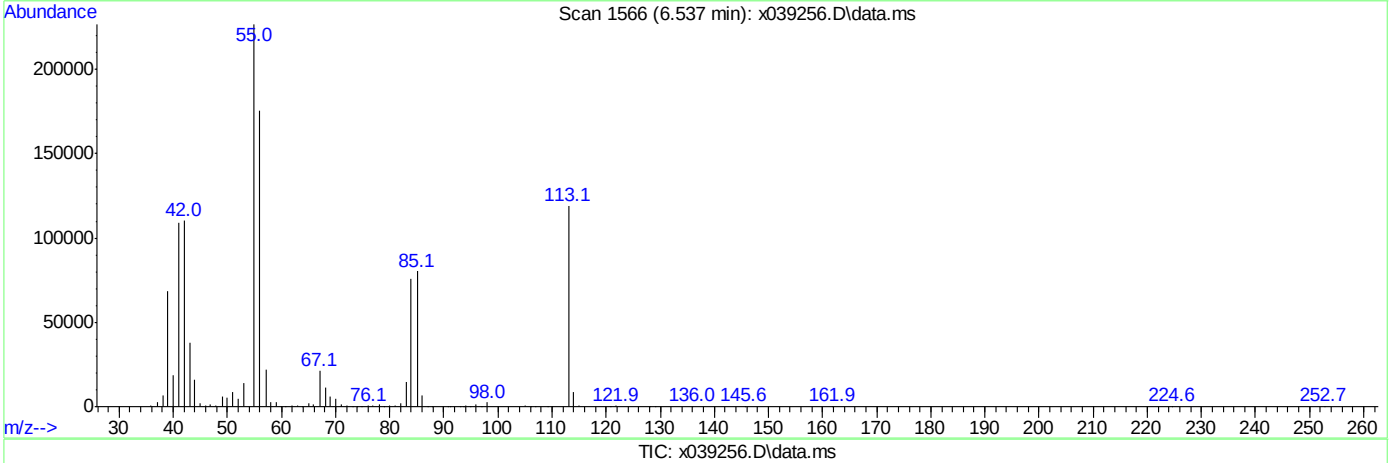
Ion	Exp%	Act%
113.00	100	100
55.00	179.50	200.89
85.00	64.50	64.75
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\sx1826\
Data File : x039256.D
Acq On : 30 Mar 2015 5:57 pm
Operator : nareshj
Sample : icv1826-50
Misc : op55392,sx1826,1000,,,1,1,water
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Mar 31 09:35:39 2015
Quant Method : C:\msdchem\1\METHODS\8270d_0330.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Tue Mar 31 09:29:41 2015
Response via : Initial Calibration





TIC: x039256.D\data.ms

(36) Caprolactam (P)

6.537min (-0.031) 45.16ppm m

response 177828

Ion	Exp%	Act%
113.00	100	100
55.00	179.50	190.57
85.00	64.50	67.47
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\sx1826\
Data File : x039257.D
Acq On : 30 Mar 2015 6:22 pm
Operator : nareshj
Sample : icv1826-50
Misc : op55392,sx1826,1000,,,1,1,water
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Mar 31 09:39:45 2015
Quant Method : C:\msdchem\1\METHODS\8270d_0330.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Tue Mar 31 09:29:41 2015
Response via : Initial Calibration

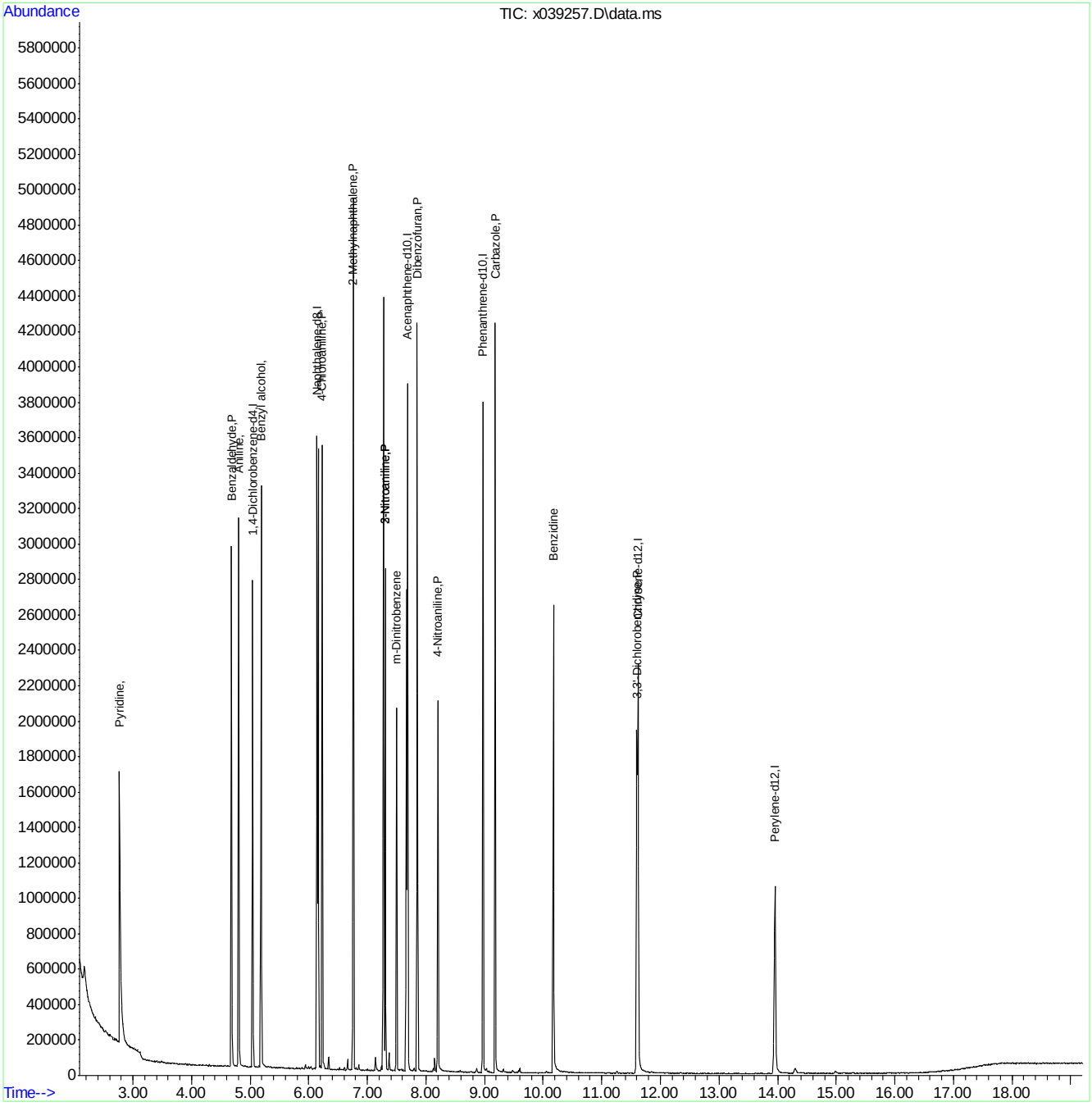
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	5.042	152	350269	40.00	ppm	0.00
22) Naphthalene-d8	6.139	136	1329846	40.00	ppm	0.00
41) Acenaphthene-d10	7.687	164	717452	40.00	ppm	0.00
67) Phenanthrene-d10	8.972	188	1095139	40.00	ppm	0.00
83) Chrysene-d12	11.617	240	949925	40.00	ppm	-0.01
92) Perylene-d12	13.956	264	598884	40.00	ppm	-0.01
System Monitoring Compounds						
5) 2-Fluorophenol	0.000	112	0	0.00	ppm	
Spiked Amount 100.000	Range 14 - 67		Recovery = 0.00%#			
9) Phenol-d5	0.000	99	0	0.00	ppm	
Spiked Amount 100.000	Range 10 - 50		Recovery = 0.00%#			
23) Nitrobenzene-d5	0.000	82	0	0.00	ppm	
Spiked Amount 50.000	Range 42 - 108		Recovery = 0.00%#			
45) 2-Fluorobiphenyl	0.000	172	0	0.00	ppm	
Spiked Amount 50.000	Range 40 - 106		Recovery = 0.00%#			
72) 2,4,6-Tribromophenol	0.000	330	0	0.00	ppm	
Spiked Amount 100.000	Range 33 - 118		Recovery = 0.00%#			
86) Terphenyl-d14	0.000	244	0d	0.00	ppm	
Spiked Amount 50.000	Range 39 - 121		Recovery = 0.00%#			
Target Compounds						Qvalue
4) Pyridine	2.769	79	647460	44.33	ppm	96
6) Benzaldehyde	4.681	106	466773	45.56	ppm	98
7) Aniline	4.803	93	865967	46.71	ppm	93
15) Benzyl alcohol	5.187	108	391639	45.43	ppm	97
33) 4-Chloroaniline	6.227	127	753027	47.57	ppm	95
38) 2-Methylnaphthalene	6.761	142	1119716	46.02	ppm	96
48) 2-Nitroaniline	7.304	65	367342	46.43	ppm	98
51) m-Dinitrobenzene	7.497	168	180204	44.83	ppm	87
55) 3-Nitroaniline	7.304	138	385906	48.33	ppm	99
59) Dibenzofuran	7.852	168	1384788	46.36	ppm	93
66) 4-Nitroaniline	8.205	138	292712	49.21	ppm	99
80) Carbazole	9.182	167	1495888	49.29	ppm	92
84) Benzidine	10.174	184	822310	59.00	ppm	100
88) 3,3'-Dichlorobenzidine	11.597	252	396203	52.25	ppm	99

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\sx1826\
Data File : x039257.D
Acq On : 30 Mar 2015 6:22 pm
Operator : nareshj
Sample : icv1826-50
Misc : op55392,sx1826,1000,,,1,1,water
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Mar 31 09:39:45 2015
Quant Method : C:\msdchem\1\METHODS\8270d_0330.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Tue Mar 31 09:29:41 2015
Response via : Initial Calibration



Manual Integrations APPROVED (compounds with "m" flag)
Naresh Jiawan
04/01/15 16:58

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\sx1827\
Data File : x039273.D
Acq On : 31 Mar 2015 1:43 pm
Operator : marthav
Sample : cc1826-50
Misc : op55392,sx1827,1000,,,1,1,water
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Apr 01 09:45:16 2015
Quant Method : C:\msdchem\1\METHODS\8270d_03302.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Tue Mar 31 09:29:41 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	5.008	152	341723	40.00	ppm	0.00
22) Naphthalene-d8	6.108	136	1279172	40.00	ppm	0.00
41) Acenaphthene-d10	7.653	164	707257	40.00	ppm	0.00
67) Phenanthrene-d10	8.940	188	1101490	40.00	ppm	0.00
83) Chrysene-d12	11.572	240	949451	40.00	ppm	0.00
92) Perylene-d12	13.885	264	639319	40.00	ppm	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	3.974	112	1226048	100.21	ppm	0.00
Spiked Amount 100.000	Range 14 - 67		Recovery = 100.21%#			
9) Phenol-d5	4.772	99	1209477	97.20	ppm	0.00
Spiked Amount 100.000	Range 10 - 50		Recovery = 97.20%#			
23) Nitrobenzene-d5	5.505	82	679888	50.18	ppm	0.00
Spiked Amount 50.000	Range 42 - 108		Recovery = 100.36%			
45) 2-Fluorobiphenyl	7.065	172	1191187	49.69	ppm	0.00
Spiked Amount 50.000	Range 40 - 106		Recovery = 99.38%			
72) 2,4,6-Tribromophenol	8.352	330	249644	100.90	ppm	0.00
Spiked Amount 100.000	Range 33 - 118		Recovery = 100.90%			
86) Terphenyl-d14	10.378	244	1118361	51.55	ppm	0.00
Spiked Amount 50.000	Range 39 - 121		Recovery = 103.10%			
Target Compounds						Qvalue
2) 1,4-Dioxane	2.397	88	264719	49.36	ppm	96
3) N-nitrosodimethylamine	2.746	42	378617	48.54	ppm	99
4) Pyridine	2.735	79	719193	50.47	ppm	94
6) Benzaldehyde	4.644	106	410163	39.24	ppm	99
7) Aniline	4.769	93	883861	48.87	ppm	93
8) bis(2-Chloroethyl)ether	4.823	93	582515	49.61	ppm	97
10) Phenol	4.781	94	798164	49.02	ppm	96
11) 2-Chlorophenol	4.863	128	643728	49.11	ppm	96
12) 1,3-Dichlorobenzene	4.977	146	699086	50.20	ppm	97
13) 1,4-Dichlorobenzene	5.022	146	680814	48.88	ppm	97
14) 1,2-Dichlorobenzene	5.181	146	658684	49.63	ppm	97
15) Benzyl alcohol	5.153	108	418625	49.78	ppm	98
16) 2-Methylphenol	5.275	108	559586	49.03	ppm	97
17) bis(2-chloroisopropyl)...	5.286	45	988523	46.32	ppm	88
18) Acetophenone	5.377	105	849833	49.25	ppm	96
19) N-Nitroso-di-n-propyla...	5.406	70	331649	49.12	ppm	97
20) 3&4-Methylphenol	5.400	108	592133	49.45	ppm	98
21) Hexachloroethane	5.443	117	284053	49.81	ppm	94
24) Nitrobenzene	5.522	77	649895	50.66	ppm	97
25) Isophorone	5.724	82	1177368	50.17	ppm	97
26) 2-Nitrophenol	5.795	139	349194	52.48	ppm	96
27) 2,4-Dimethylphenol	5.846	107	605128	49.83	ppm	100
28) bis(2-Chloroethoxy)met...	5.923	93	675668	50.70	ppm	98
29) Benzoic Acid	5.971	105	499188m	54.06	ppm	
30) 2,4-Dichlorophenol	6.005	162	499724	50.98	ppm	99
31) 1,2,4-Trichlorobenzene	6.073	180	505395	50.58	ppm	98
32) Naphthalene	6.125	128	1637965	49.67	ppm	92

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\sx1827\
Data File : x039273.D
Acq On : 31 Mar 2015 1:43 pm
Operator : marthav
Sample : cc1826-50
Misc : op55392,sx1827,1000,,,1,1,water
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Apr 01 09:45:16 2015
Quant Method : C:\msdchem\1\METHODS\8270d_03302.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Tue Mar 31 09:29:41 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
33) 4-Chloroaniline	6.193	127	772163	50.71	ppm		96
34) 2,6-Dichlorophenol	6.005	162	499724	50.98	ppm		99
35) Hexachlorobutadiene	6.287	225	283837	50.84	ppm		99
36) Caprolactam	6.503	113	205498	51.68	ppm		90
37) 4-Chloro-3-methylphenol	6.630	107	532595	50.12	ppm		99
38) 2-Methylnaphthalene	6.724	142	1191444	50.90	ppm		96
39) 1-Methylnaphthalene	6.818	142	1024199	49.28	ppm		99
40) 1,2,4,5-Tetrachloroben...	6.906	216	490729	50.26	ppm		97
42) Hexachlorocyclopentadiene	6.926	237	337731	53.29	ppm		98
43) 2,4,6-Trichlorophenol	7.000	196	337558	50.43	ppm		99
44) 2,4,5-Trichlorophenol	7.037	196	352915	49.47	ppm		97
46) 1,1'-Biphenyl	7.142	154	1317518	48.90	ppm		91
47) 2-Chloronaphthalene	7.148	162	1012029	48.61	ppm		95
48) 2-Nitroaniline	7.267	65	396178	50.79	ppm		94
49) p-Dinitrobenzene	7.366	75	247613	52.57	ppm		97
50) Dimethylphthalate	7.460	163	1142628	48.74	ppm		96
51) m-Dinitrobenzene	7.469	168	203567	51.38	ppm		81
52) 2,6-Dinitrotoluene	7.517	165	274785	49.98	ppm		89
53) o-Dinitrobenzene	7.577	50	244413	50.03	ppm		96
54) Acenaphthylene	7.517	152	1621006	49.45	ppm		91
55) 3-Nitroaniline	7.270	138	408010	51.83	ppm		97
56) Acenaphthene	7.682	153	1050849	49.80	ppm		96
57) 2,4-Dinitrophenol	7.721	184	157654	49.91	ppm		99
58) 4-Nitrophenol	7.795	109	183633	50.71	ppm	#	66
59) Dibenzofuran	7.818	168	1458452	49.53	ppm		88
60) 2,4-Dinitrotoluene	7.855	165	383444	51.22	ppm		95
61) 2,3,5,6-Tetrachlorophenol	7.929	232	291110	51.79	ppm		97
62) 2,3,4,6-Tetrachlorophenol	7.969	232	277093	50.36	ppm		97
63) Diethylphthalate	8.082	149	1188756	49.11	ppm		94
64) Fluorene	8.122	166	1200225	49.78	ppm		98
65) 4-Chlorophenyl-phenyle...	8.125	204	544232	49.92	ppm		93
66) 4-Nitroaniline	8.182	138	318861	54.38	ppm		99
68) 4,6-Dinitro-2-methylph...	8.216	198	217918	51.50	ppm		95
69) Diphenylamine	8.239	169	1017959	49.80	ppm		95
70) n-Nitrosodiphenylamine	8.239	169	1017959	59.76	ppm		95
71) 1,2-Diphenylhydrazine	8.261	77	1220672	48.95	ppm		90
73) 4-Bromophenyl-phenylether	8.548	248	287857	50.03	ppm		94
74) Hexachlorobenzene	8.676	284	268079	48.52	ppm		86
75) Simazine	8.710	201	175897	50.19	ppm		95
76) Atrazine	8.742	200	328893	48.10	ppm		91
77) Pentachlorophenol	8.838	266	196406	55.06	ppm		96
78) Phenanthrene	8.960	178	1619155	50.03	ppm		90
79) Anthracene	9.000	178	1613256	49.98	ppm		91
80) Carbazole	9.148	167	1554714	50.93	ppm		93
81) Di-n-butylphthalate	9.512	149	1851017	48.73	ppm		94
82) Fluoranthene	10.015	202	1655855	49.50	ppm		94
84) Benzidine	10.137	184	650278	46.68	ppm		99
85) Pyrene	10.213	202	1713157	48.81	ppm		93
87) Butylbenzylphthalate	10.935	149	842293	50.23	ppm		99
88) 3,3'-Dichlorobenzidine	11.549	252	410139	54.12	ppm		97

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\sx1827\
Data File : x039273.D
Acq On : 31 Mar 2015 1:43 pm
Operator : marthav
Sample : cc1826-50
Misc : op55392,sx1827,1000,,,1,1,water
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Apr 01 09:45:16 2015
Quant Method : C:\msdchem\1\METHODS\8270d_03302.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Tue Mar 31 09:29:41 2015
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
89)	Benzo[a]anthracene	11.546	228	1416774	51.72 ppm	98
90)	Chrysene	11.609	228	1310108	50.40 ppm	97
91)	bis(2-Ethylhexyl)phtha...	11.731	149	1126792	50.76 ppm	99
93)	Di-n-octylphthalate	12.714	149	1732520	52.92 ppm	98
94)	Benzo[b]fluoranthene	13.223	252	1070855	52.27 ppm	99
95)	Benzo[k]fluoranthene	13.268	252	1053478	50.13 ppm	97
96)	Benzo[a]pyrene	13.782	252	984536	53.56 ppm	98
97)	Indeno[1,2,3-cd]pyrene	15.945	276	655746	51.79 ppm	100
98)	Dibenz[a,h]anthracene	16.010	278	606980	51.36 ppm	94
99)	Benzo[g,h,i]perylene	16.408	276	717568	52.54 ppm	97

(#) = qualifier out of range (m) = manual integration (+) = signals summed

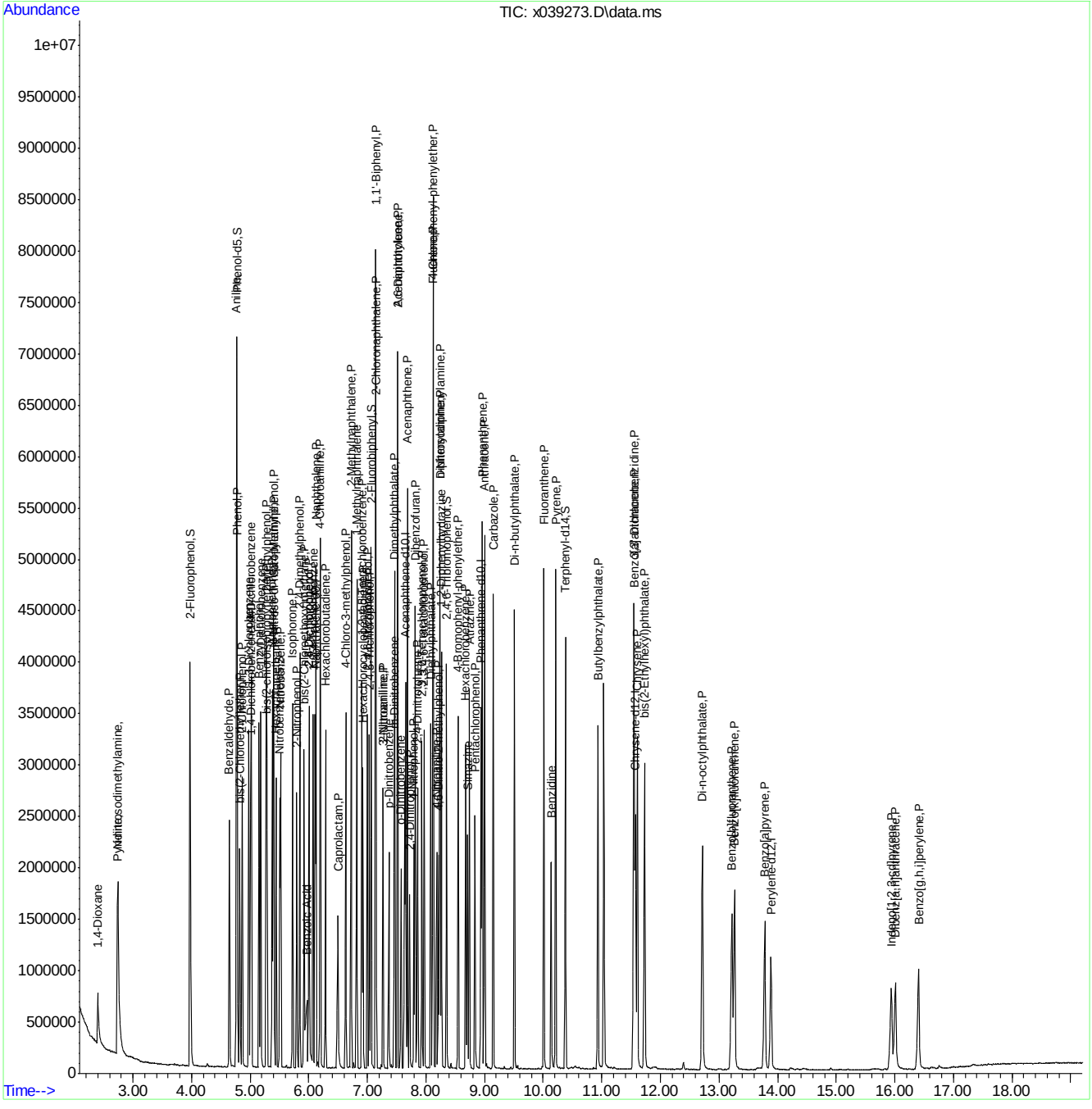
7.6.32

7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\sx1827\
Data File : x039273.D
Acq On : 31 Mar 2015 1:43 pm
Operator : marthav
Sample : cc1826-50
Misc : op55392,sx1827,1000,,,1,1,water
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Apr 01 09:45:16 2015
Quant Method : C:\msdchem\1\METHODS\8270d_03302.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Tue Mar 31 09:29:41 2015
Response via : Initial Calibration



ACCUTEST LABORATORIES FA23189

Manual Integration Approval Summary

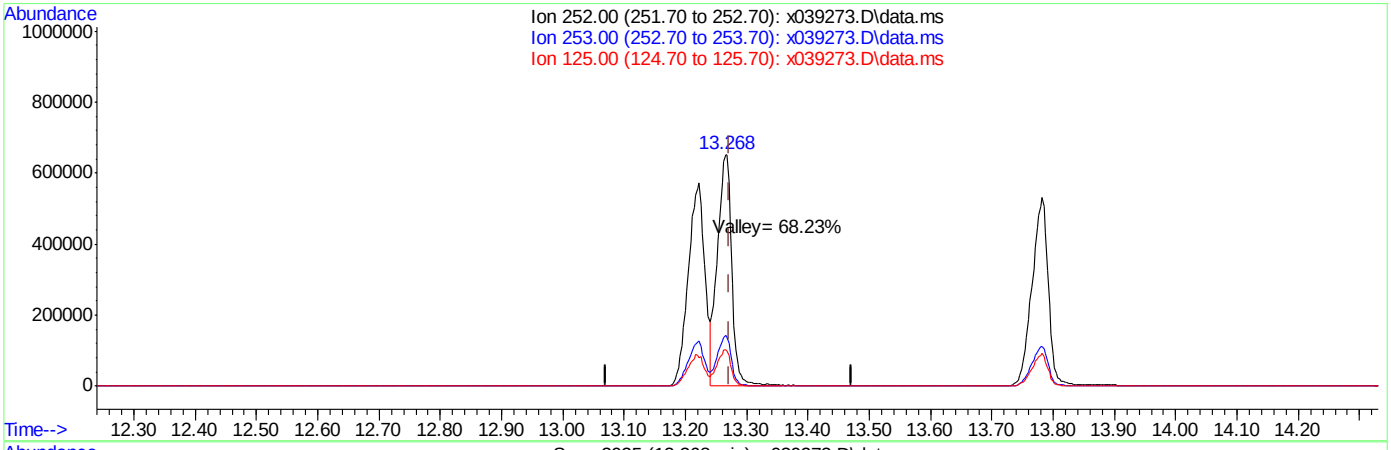
Sample Number:	SX1827-CC1826	**Method:**	SW846 8270D
Lab FileID:	X039273.D	**Analyst approved:**	04/01/15 15:25 Martha Valls
Injection Time:	03/31/15 13:43	**Supervisor approved:**	04/01/15 16:58 Naresh Jiawan

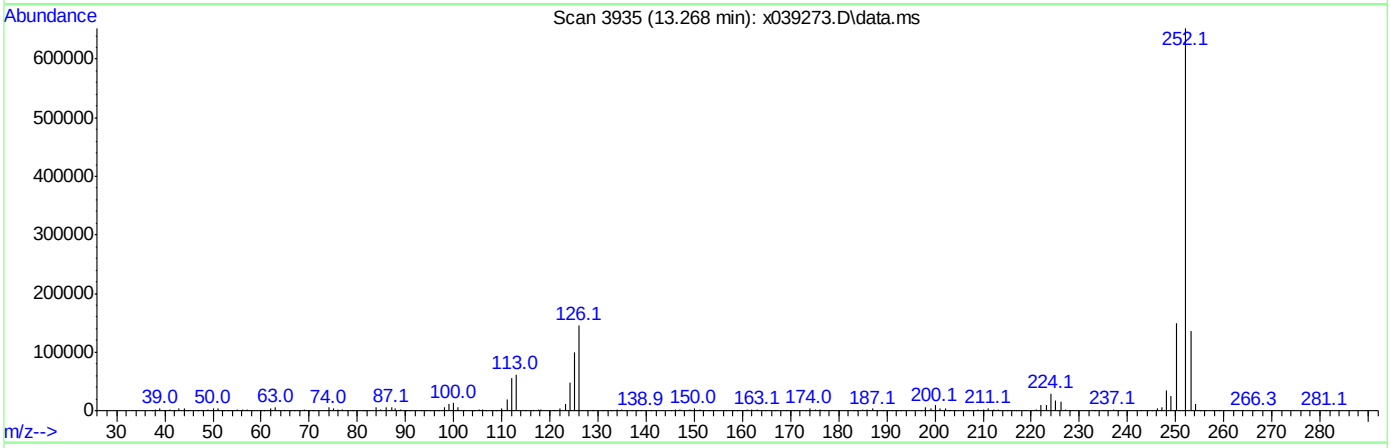
Parameter	CAS	Sig#	R.T. (min.)	Reason
Benzoic Acid	65-85-0		5.97	Missed peak

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\sx1827\
Data File : x039273.D
Acq On : 31 Mar 2015 1:43 pm
Operator : marthav
Sample : cc1826-50
Misc : op55392,sx1827,1000,,,1,1,water
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Mar 31 15:56:10 2015
Quant Method : C:\msdchem\1\METHODS\8270d_03302.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Tue Mar 31 15:56:03 2015
Response via : Initial Calibration





TIC: x039273.D\data.ms

(95) Benzo[k]fluoranthene (P)

13.268min (-0.003) 50.13ppm

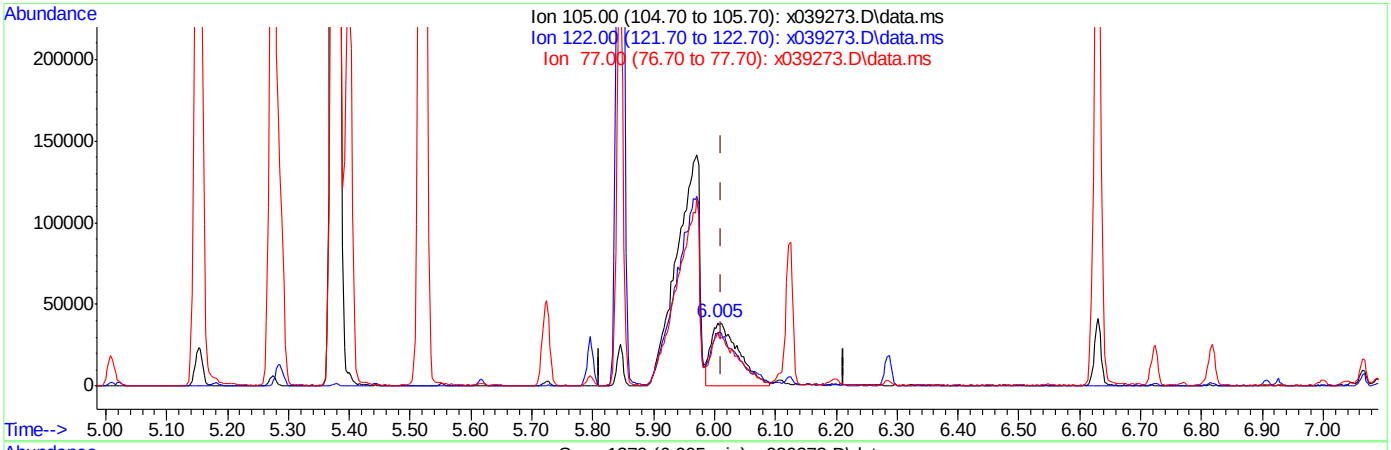
response 1053478

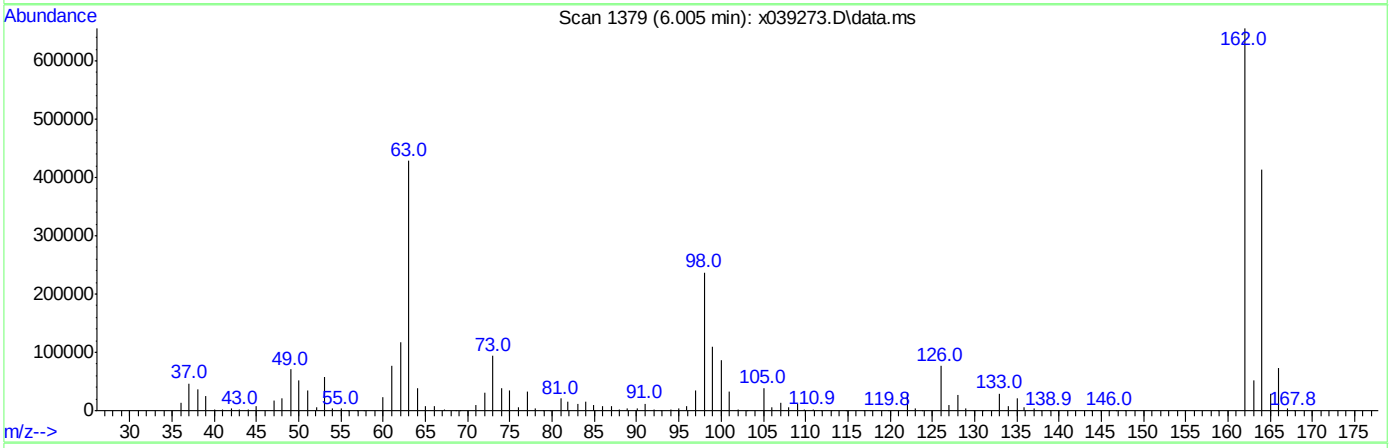
Ion	Exp%	Act%
252.00	100	100
253.00	23.20	20.69
125.00	15.40	15.40
0.00	0.00	0.00

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\DATA\sx1827\
Data File : x039273.D
Acq On    : 31 Mar 2015   1:43 pm
Operator  : marthav
Sample    : cc1826-50
Misc      : op55392,sx1827,1000,,,1,1,water
ALS Vial  : 2   Sample Multiplier: 1

Quant Time: Apr 01 09:45:06 2015
Quant Method : C:\msdchem\1\METHODS\8270d_03302.m
Quant Title  : SW846 8270D OR EPA 625
QLast Update : Tue Mar 31 09:29:41 2015
Response via : Initial Calibration
```



(29) Benzoic Acid

6.005min (-0.007) 13.16ppm

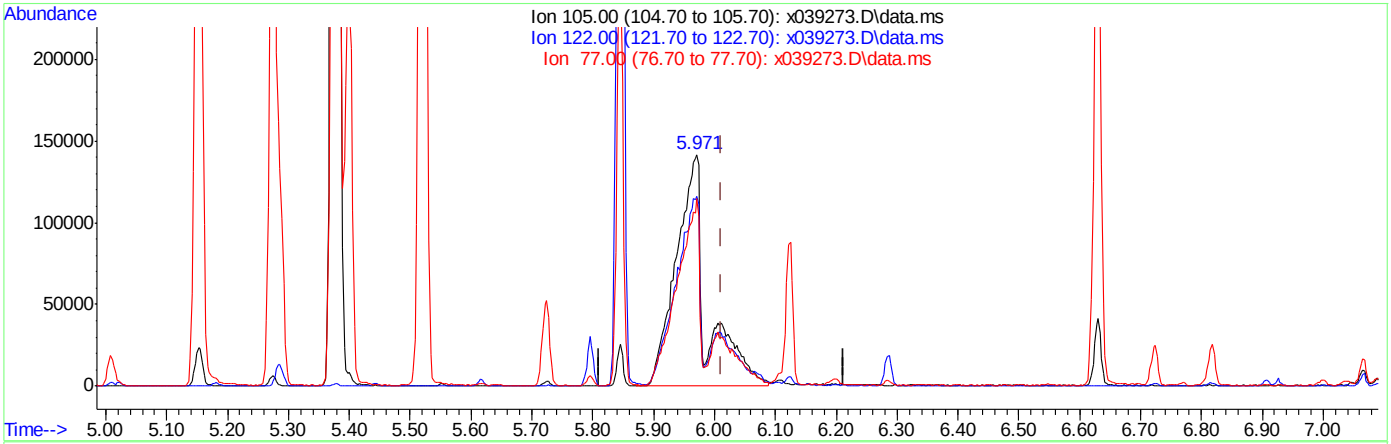
response 121510

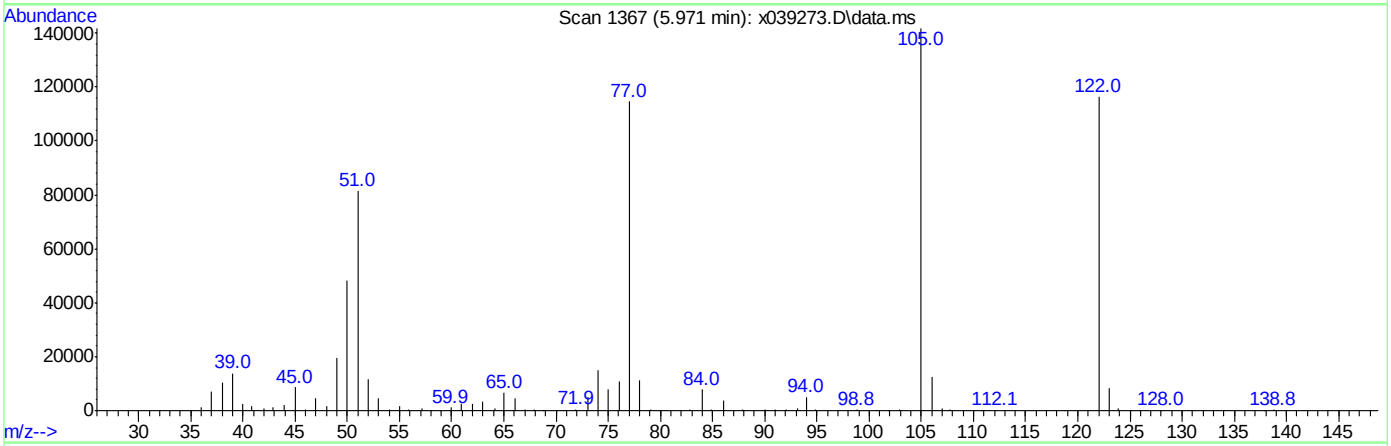
Ion	Exp%	Act%
105.00	100	100
122.00	83.70	78.89
77.00	75.60	85.05
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\sx1827\
Data File : x039273.D
Acq On : 31 Mar 2015 1:43 pm
Operator : marthav
Sample : cc1826-50
Misc : op55392,sx1827,1000,,,1,1,water
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Apr 01 09:45:06 2015
Quant Method : C:\msdchem\1\METHODS\8270d_03302.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Tue Mar 31 09:29:41 2015
Response via : Initial Calibration





TIC: x039273.D\data.ms

(29) Benzoic Acid

5.971min (-0.041) 54.06ppm m

response 499188

Ion	Exp%	Act%
105.00	100	100
122.00	83.70	82.05
77.00	75.60	80.92
0.00	0.00	0.00

Manual Integrations APPROVED (compounds with "m" flag)
Naresh Jiawan
04/01/15 16:58

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\sx1827\
Data File : x039299.D
Acq On : 1 Apr 2015 1:02 am
Operator : marthav
Sample : ecc1826-50
Misc : op55392,sx1827,1000,,,1,1,water
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Apr 01 14:55:42 2015
Quant Method : C:\msdchem\1\METHODS\8270d_03302.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Tue Mar 31 09:29:41 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	5.011	152	312342	40.00	ppm	0.00
22) Naphthalene-d8	6.107	136	1201677	40.00	ppm	0.00
41) Acenaphthene-d10	7.656	164	657589	40.00	ppm	0.00
67) Phenanthrene-d10	8.943	188	1019941	40.00	ppm	0.00
83) Chrysene-d12	11.580	240	892354	40.00	ppm	0.00
92) Perylene-d12	13.901	264	595573	40.00	ppm	0.02
System Monitoring Compounds						
5) 2-Fluorophenol	3.979	112	1120750	100.22	ppm	0.00
Spiked Amount 100.000	Range 14 - 67		Recovery = 100.22%#			
9) Phenol-d5	4.778	99	1129554	99.32	ppm	0.00
Spiked Amount 100.000	Range 10 - 50		Recovery = 99.32%#			
23) Nitrobenzene-d5	5.508	82	639045	50.21	ppm	0.00
Spiked Amount 50.000	Range 42 - 108		Recovery = 100.42%			
45) 2-Fluorobiphenyl	7.068	172	1108370	49.73	ppm	0.00
Spiked Amount 50.000	Range 40 - 106		Recovery = 99.46%			
72) 2,4,6-Tribromophenol	8.358	330	239900	104.71	ppm	0.00
Spiked Amount 100.000	Range 33 - 118		Recovery = 104.71%			
86) Terphenyl-d14	10.384	244	1072693	52.61	ppm	0.01
Spiked Amount 50.000	Range 39 - 121		Recovery = 105.22%			
Target Compounds						Qvalue
2) 1,4-Dioxane	2.402	88	249987	51.00	ppm	94
3) N-nitrosodimethylamine	2.752	42	362324	50.82	ppm	96
4) Pyridine	2.740	79	642473	49.32	ppm	93
6) Benzaldehyde	4.647	106	386073	40.87	ppm	99
7) Aniline	4.772	93	828202	50.10	ppm	98
8) bis(2-Chloroethyl)ether	4.826	93	535032	49.85	ppm	98
10) Phenol	4.786	94	739209	49.67	ppm	99
11) 2-Chlorophenol	4.869	128	595530	49.71	ppm	98
12) 1,3-Dichlorobenzene	4.982	146	635124	49.90	ppm	97
13) 1,4-Dichlorobenzene	5.025	146	636538	50.00	ppm	99
14) 1,2-Dichlorobenzene	5.184	146	601458	49.58	ppm	99
15) Benzyl alcohol	5.158	108	401713	52.26	ppm	96
16) 2-Methylphenol	5.278	108	523688	50.20	ppm	98
17) bis(2-chloroisopropyl)...	5.289	45	897229	45.89	ppm	91
18) Acetophenone	5.380	105	781087	49.53	ppm	97
19) N-Nitroso-di-n-propyla...	5.408	70	306384	49.65	ppm	95
20) 3&4-Methylphenol	5.403	108	551029	50.34	ppm	96
21) Hexachloroethane	5.445	117	228245	43.79	ppm	94
24) Nitrobenzene	5.525	77	605749	50.26	ppm	98
25) Isophorone	5.727	82	1102961	50.03	ppm	98
26) 2-Nitrophenol	5.798	139	310882	49.74	ppm	94
27) 2,4-Dimethylphenol	5.849	107	576335	50.52	ppm	97
28) bis(2-Chloroethoxy)met...	5.926	93	627480	50.12	ppm	97
29) Benzoic Acid	5.980	105	427630m	49.29	ppm	
30) 2,4-Dichlorophenol	6.008	162	465857	50.59	ppm	99
31) 1,2,4-Trichlorobenzene	6.076	180	470348	50.11	ppm	100
32) Naphthalene	6.127	128	1552039	50.10	ppm	91

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\sx1827\
Data File : x039299.D
Acq On : 1 Apr 2015 1:02 am
Operator : marthav
Sample : ecc1826-50
Misc : op55392,sx1827,1000,,,1,1,water
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Apr 01 14:55:42 2015
Quant Method : C:\msdchem\1\METHODS\8270d_03302.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Tue Mar 31 09:29:41 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
33) 4-Chloroaniline	6.196	127	721613	50.45	ppm		95
34) 2,6-Dichlorophenol	6.008	162	465857	50.59	ppm		99
35) Hexachlorobutadiene	6.289	225	262304	50.01	ppm		97
36) Caprolactam	6.508	113	192609	51.56	ppm		94
37) 4-Chloro-3-methylphenol	6.636	107	505146	50.61	ppm		98
38) 2-Methylnaphthalene	6.727	142	1098184	49.95	ppm		98
39) 1-Methylnaphthalene	6.821	142	963377	49.34	ppm		99
40) 1,2,4,5-Tetrachloroben...	6.912	216	459622	50.11	ppm		98
42) Hexachlorocyclopentadiene	6.929	237	112662	19.12	ppm		97
43) 2,4,6-Trichlorophenol	7.005	196	310990	49.97	ppm		98
44) 2,4,5-Trichlorophenol	7.042	196	328799	49.57	ppm		98
46) 1,1'-Biphenyl	7.145	154	1264753	50.48	ppm		90
47) 2-Chloronaphthalene	7.150	162	947632	48.95	ppm		97
48) 2-Nitroaniline	7.272	65	376780	51.95	ppm		93
49) p-Dinitrobenzene	7.372	75	220917	50.44	ppm		95
50) Dimethylphthalate	7.466	163	1091044	50.06	ppm		96
51) m-Dinitrobenzene	7.474	168	181840	49.36	ppm		86
52) 2,6-Dinitrotoluene	7.520	165	257495	50.38	ppm		86
53) o-Dinitrobenzene	7.579	50	224410	49.41	ppm		92
54) Acenaphthylene	7.520	152	1493924	49.01	ppm		91
55) 3-Nitroaniline	7.272	138	378887	51.77	ppm		99
56) Acenaphthene	7.684	153	970555	49.47	ppm		97
57) 2,4-Dinitrophenol	7.724	184	36533	13.97	ppm		95
58) 4-Nitrophenol	7.804	109	174396	51.73	ppm		92
59) Dibenzofuran	7.821	168	1357794	49.60	ppm		90
60) 2,4-Dinitrotoluene	7.861	165	354862	50.98	ppm		85
61) 2,3,5,6-Tetrachlorophenol	7.934	232	265313	50.77	ppm		96
62) 2,3,4,6-Tetrachlorophenol	7.974	232	254920	49.83	ppm		96
63) Diethylphthalate	8.085	149	1128760	50.15	ppm		95
64) Fluorene	8.125	166	1129476	50.38	ppm		98
65) 4-Chlorophenyl-phenyle...	8.128	204	511020	50.42	ppm		94
66) 4-Nitroaniline	8.185	138	307964	56.49	ppm		97
68) 4,6-Dinitro-2-methylph...	8.219	198	65973	18.09	ppm	#	25
69) Diphenylamine	8.241	169	964108	50.93	ppm		94
70) n-Nitrosodiphenylamine	8.241	169	964108	61.12	ppm		94
71) 1,2-Diphenylhydrazine	8.264	77	1155327	50.03	ppm		89
73) 4-Bromophenyl-phenylether	8.551	248	275461	51.70	ppm		91
74) Hexachlorobenzene	8.682	284	265280	51.85	ppm		93
75) Simazine	8.713	201	160122	49.34	ppm		94
76) Atrazine	8.744	200	314635	49.69	ppm		90
77) Pentachlorophenol	8.841	266	174798	52.92	ppm		95
78) Phenanthrene	8.963	178	1485890	49.59	ppm		91
79) Anthracene	9.003	178	1521092	50.89	ppm		90
80) Carbazole	9.153	167	1470004	52.01	ppm		93
81) Di-n-butylphthalate	9.511	149	1781072	50.64	ppm		94
82) Fluoranthene	10.017	202	1556785	50.26	ppm		93
84) Benzidine	10.139	184	656775	50.17	ppm		100
85) Pyrene	10.219	202	1637394	49.64	ppm		93
87) Butylbenzylphthalate	10.941	149	799790	50.75	ppm		99
88) 3,3'-Dichlorobenzidine	11.557	252	399620	56.10	ppm		98

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\sx1827\
Data File : x039299.D
Acq On : 1 Apr 2015 1:02 am
Operator : marthav
Sample : ecc1826-50
Misc : op55392,sx1827,1000,,,1,1,water
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Apr 01 14:55:42 2015
Quant Method : C:\msdchem\1\METHODS\8270d_03302.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Tue Mar 31 09:29:41 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
89) Benzo[a]anthracene	11.554	228	1309799	50.88 ppm	98
90) Chrysene	11.614	228	1219738	49.93 ppm	95
91) bis(2-Ethylhexyl)phtha...	11.733	149	1065745	51.08 ppm	98
93) Di-n-octylphthalate	12.719	149	1695725	55.60 ppm	98
94) Benzo[b]fluoranthene	13.234	252	1021427	53.52 ppm	97
95) Benzo[k]fluoranthene	13.279	252	974823	49.79 ppm	97
96) Benzo[a]pyrene	13.796	252	922823	53.89 ppm	99
97) Indeno[1,2,3-cd]pyrene	15.959	276	573279	48.89 ppm	97
98) Dibenz[a,h]anthracene	16.027	278	554160	50.46 ppm	95
99) Benzo[g,h,i]perylene	16.419	276	581058	45.67 ppm	99

(#) = qualifier out of range (m) = manual integration (+) = signals summed

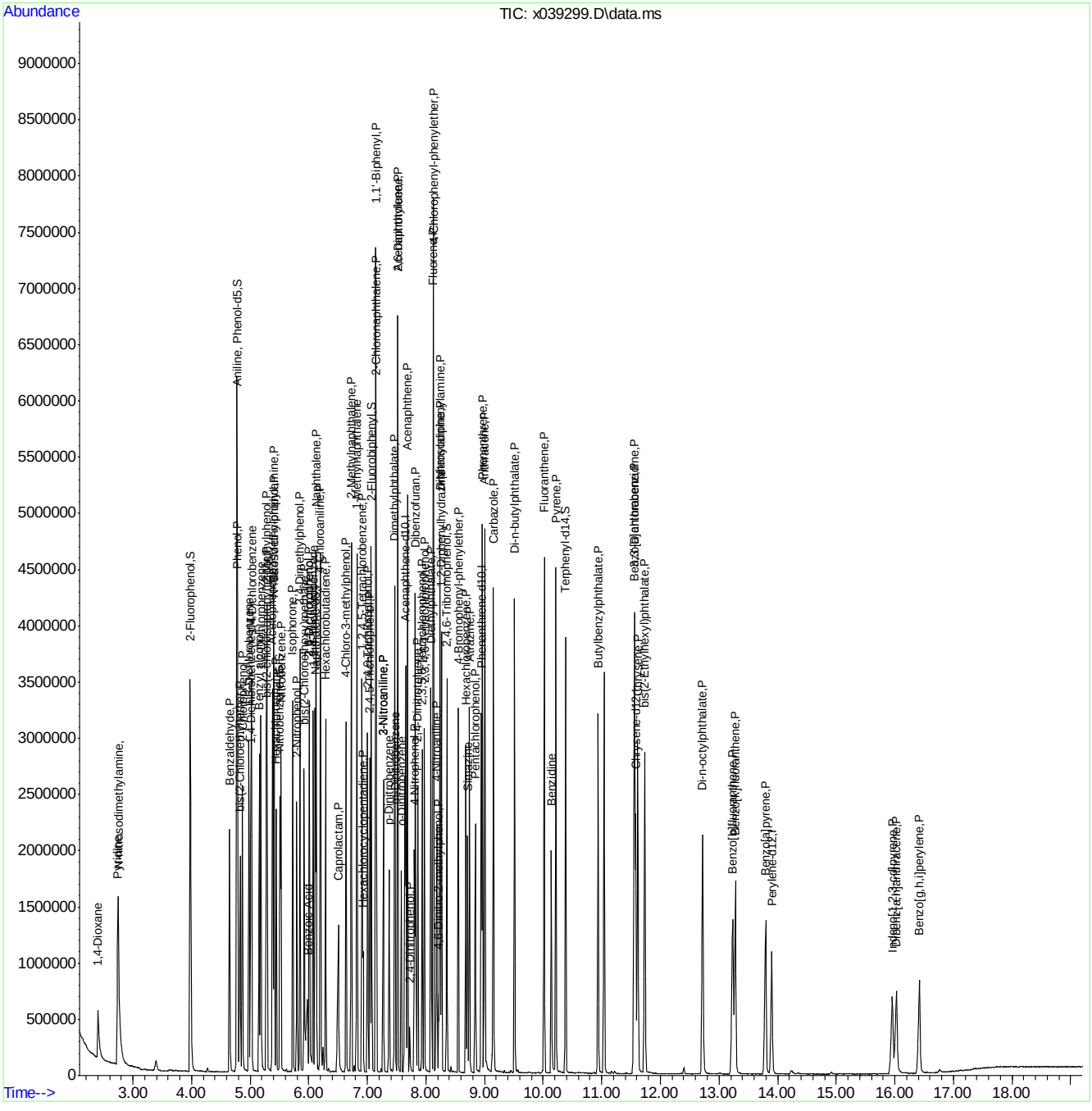
7.6.33

7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\sx1827\
Data File : x039299.D
Acq On : 1 Apr 2015 1:02 am
Operator : marthav
Sample : ecc1826-50
Misc : op55392,sx1827,1000,,,1,1,water
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Apr 01 14:55:42 2015
Quant Method : C:\msdchem\1\METHODS\8270d_03302.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Tue Mar 31 09:29:41 2015
Response via : Initial Calibration



Manual Integration Approval Summary

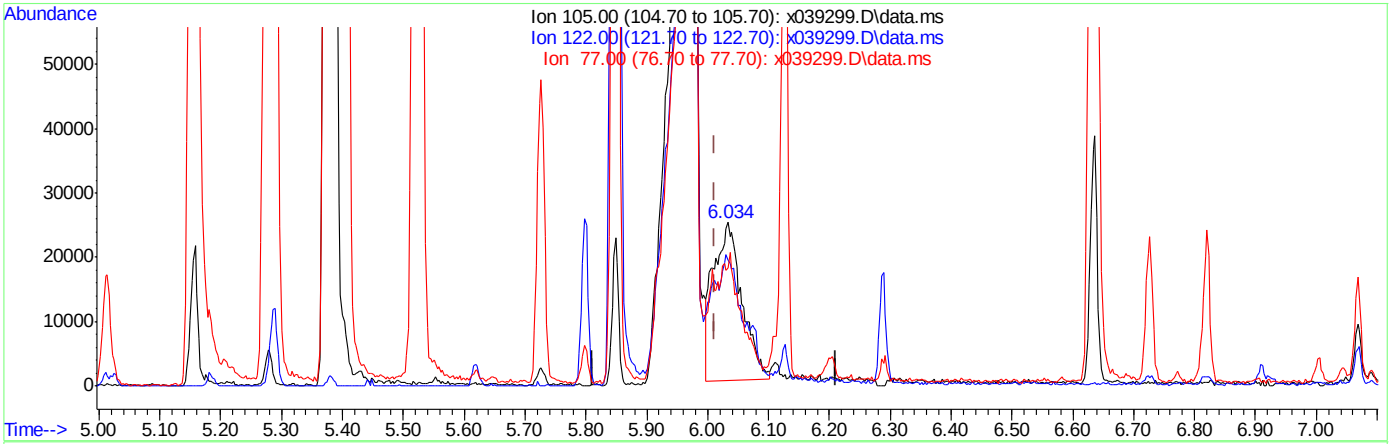
Sample Number:	SX1827-ECC1826	**Method:**	SW846 8270D
Lab FileID:	X039299.D	**Analyst approved:**	04/01/15 15:26 Martha Valls
Injection Time:	04/01/15 01:02	**Supervisor approved:**	04/01/15 16:58 Naresh Jiawan

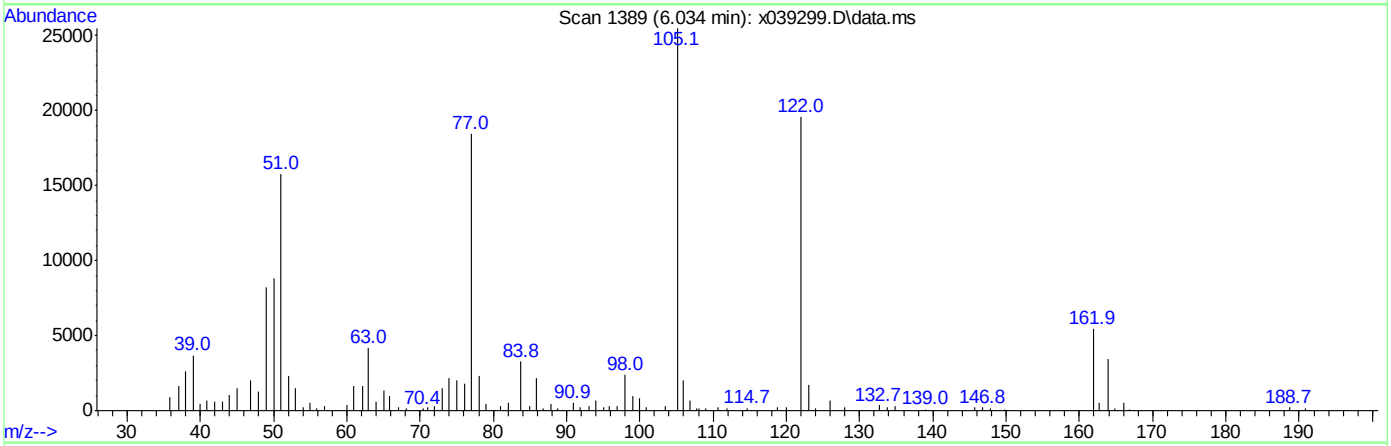
Parameter	CAS	Sig#	R.T. (min.)	Reason
Benzoic Acid	65-85-0		5.98	Split peak

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\sx1827\
Data File : x039299.D
Acq On : 1 Apr 2015 1:02 am
Operator : marthav
Sample : ecc1826-50
Misc : op55392,sx1827,1000,,,1,1,water
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Apr 01 08:31:33 2015
Quant Method : C:\msdchem\1\METHODS\8270d_03302.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Tue Mar 31 09:29:41 2015
Response via : Initial Calibration





TIC: x039299.D\data.ms

(29) Benzoic Acid

6.034min (+0.021) 9.33ppm

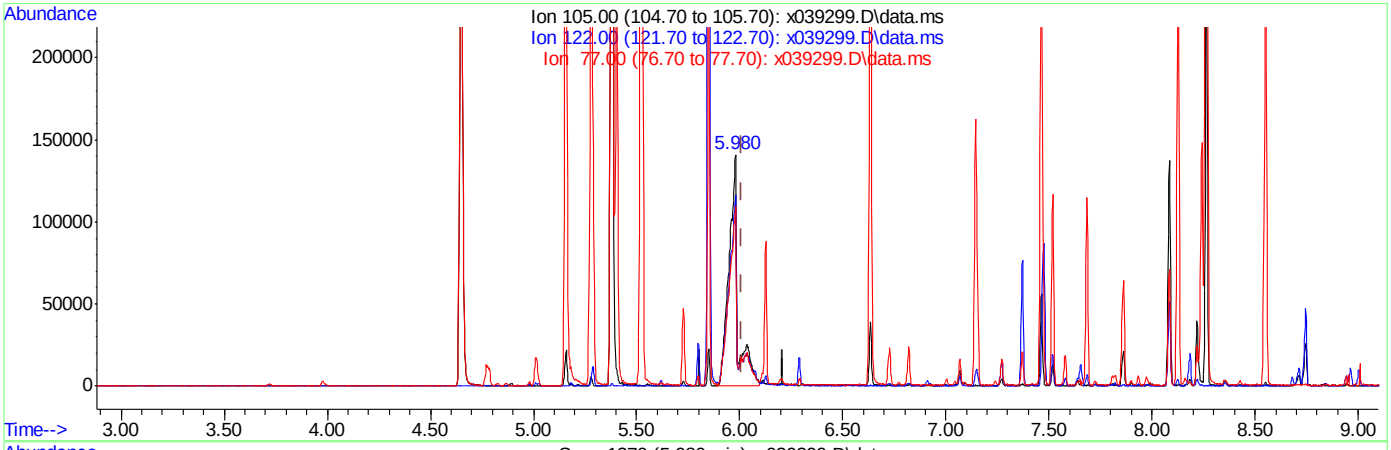
response 80947

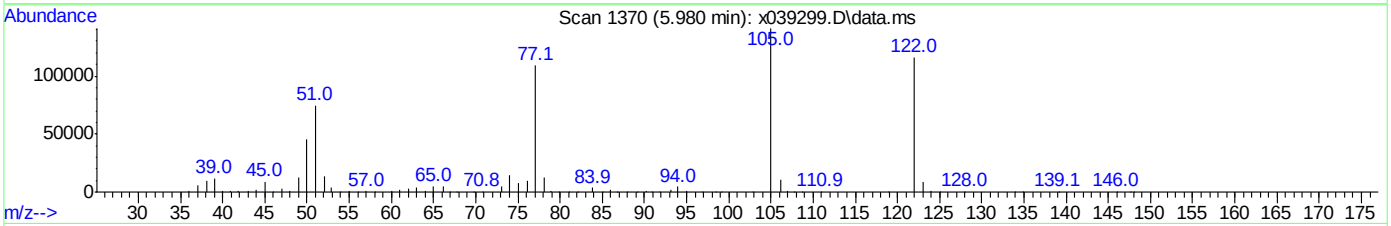
Ion	Exp%	Act%
105.00	100	100
122.00	83.70	73.68
77.00	75.60	61.28
0.00	0.00	0.00

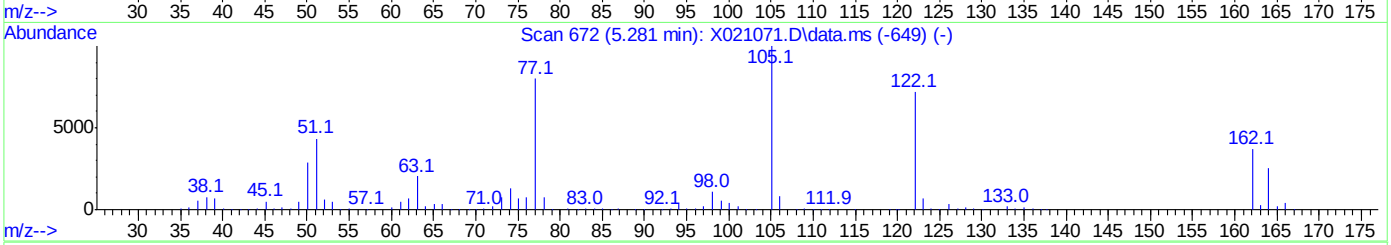
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\sx1827\
Data File : x039299.D
Acq On : 1 Apr 2015 1:02 am
Operator : marthav
Sample : ecc1826-50
Misc : op55392,sx1827,1000,,,1,1,water
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Apr 01 08:31:33 2015
Quant Method : C:\msdchem\1\METHODS\8270d_03302.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Tue Mar 31 09:29:41 2015
Response via : Initial Calibration







TIC: x039299.D\data.ms

(29) Benzoic Acid

5.980min (-0.033) 49.29ppm m

response 427630

Ion	Exp%	Act%
105.00	100	100
122.00	83.70	82.27
77.00	75.60	77.71
0.00	0.00	0.00

Manual Integrations APPROVED (compounds with "m" flag)
Mike Eger
04/02/15 14:34

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\sx1828\
Data File : x039303.D
Acq On : 1 Apr 2015 9:55 am
Operator : marthav
Sample : cc1826-50
Misc : op55512,sx1828,1000,,,1,1,water
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Apr 02 09:03:20 2015
Quant Method : C:\msdchem\1\METHODS\8270d_03302.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Thu Apr 02 07:55:07 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.991	152	240949	40.00	ppm	0.00
22) Naphthalene-d8	6.088	136	950728	40.00	ppm	0.00
41) Acenaphthene-d10	7.633	164	533247	40.00	ppm	0.00
67) Phenanthrene-d10	8.921	188	841443	40.00	ppm	0.00
83) Chrysene-d12	11.546	240	729777	40.00	ppm	0.00
92) Perylene-d12	13.850	264	480155	40.00	ppm	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	3.957	112	860206	99.72	ppm	-0.01
Spiked Amount 100.000	Range 14 - 67		Recovery = 99.72%#			
9) Phenol-d5	4.755	99	861345	98.17	ppm	0.00
Spiked Amount 100.000	Range 10 - 50		Recovery = 98.17%#			
23) Nitrobenzene-d5	5.488	82	483324	47.99	ppm	0.00
Spiked Amount 50.000	Range 42 - 108		Recovery = 95.98%			
45) 2-Fluorobiphenyl	7.048	172	848901	46.97	ppm	0.00
Spiked Amount 50.000	Range 40 - 106		Recovery = 93.94%			
72) 2,4,6-Tribromophenol	8.335	330	187349	99.12	ppm	0.00
Spiked Amount 100.000	Range 33 - 118		Recovery = 99.12%			
86) Terphenyl-d14	10.358	244	829119	49.72	ppm	0.01
Spiked Amount 50.000	Range 39 - 121		Recovery = 99.44%			
Target Compounds						Qvalue
2) 1,4-Dioxane	2.380	88	191035	50.52	ppm	97
3) N-nitrosodimethylamine	2.726	42	272112	49.48	ppm	96
4) Pyridine	2.715	79	500316	49.79	ppm	96
6) Benzaldehyde	4.627	106	347783	51.62	ppm	97
7) Aniline	4.752	93	626988	49.17	ppm	97
8) bis(2-Chloroethyl)ether	4.806	93	409480	49.46	ppm	98
10) Phenol	4.766	94	570637	49.70	ppm	97
11) 2-Chlorophenol	4.846	128	454263	49.15	ppm	97
12) 1,3-Dichlorobenzene	4.960	146	482848	49.18	ppm	99
13) 1,4-Dichlorobenzene	5.005	146	484302	49.31	ppm	98
14) 1,2-Dichlorobenzene	5.161	146	463564	49.53	ppm	98
15) Benzyl alcohol	5.136	108	301559	50.85	ppm	97
16) 2-Methylphenol	5.258	108	404848	50.31	ppm	95
17) bis(2-chloroisopropyl)...	5.269	45	680982	44.92	ppm	89
18) Acetophenone	5.360	105	577708	47.48	ppm	94
19) N-Nitroso-di-n-propyla...	5.389	70	233651	49.08	ppm	99
20) 3&4-Methylphenol	5.383	108	414619	49.10	ppm	97
21) Hexachloroethane	5.426	117	200117	49.77	ppm	95
24) Nitrobenzene	5.502	77	454185	47.63	ppm	96
25) Isophorone	5.707	82	835307	47.89	ppm	96
26) 2-Nitrophenol	5.778	139	249847	50.52	ppm	99
27) 2,4-Dimethylphenol	5.829	107	438558	48.59	ppm	97
28) bis(2-Chloroethoxy)met...	5.906	93	472042	47.66	ppm	98
29) Benzoic Acid	5.954	105	326120m	47.51	ppm	
30) 2,4-Dichlorophenol	5.988	162	350492	48.11	ppm	97
31) 1,2,4-Trichlorobenzene	6.056	180	357394	48.13	ppm	97
32) Naphthalene	6.105	128	1190218	48.56	ppm	91

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\sx1828\
Data File : x039303.D
Acq On : 1 Apr 2015 9:55 am
Operator : marthav
Sample : cc1826-50
Misc : op55512,sx1828,1000,,,1,1,water
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Apr 02 09:03:20 2015
Quant Method : C:\msdchem\1\METHODS\8270d_03302.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Thu Apr 02 07:55:07 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
33) 4-Chloroaniline	6.176	127	556628	49.18	ppm		96
34) 2,6-Dichlorophenol	5.988	162	350492	48.11	ppm		97
35) Hexachlorobutadiene	6.269	225	203731	49.09	ppm		99
36) Caprolactam	6.483	113	140133	47.41	ppm		92
37) 4-Chloro-3-methylphenol	6.613	107	380601	48.19	ppm		99
38) 2-Methylnaphthalene	6.704	142	845474	48.60	ppm		97
39) 1-Methylnaphthalene	6.801	142	753820	48.80	ppm		97
40) 1,2,4,5-Tetrachloroben...	6.889	216	360373	49.66	ppm		95
42) Hexachlorocyclopentadiene	6.909	237	233832	48.93	ppm		96
43) 2,4,6-Trichlorophenol	6.983	196	241067	47.77	ppm		98
44) 2,4,5-Trichlorophenol	7.020	196	254558	47.33	ppm		99
46) 1,1'-Biphenyl	7.122	154	927629	45.66	ppm		89
47) 2-Chloronaphthalene	7.130	162	732987	46.69	ppm		94
48) 2-Nitroaniline	7.250	65	276367	46.99	ppm		95
49) p-Dinitrobenzene	7.349	75	170530	48.02	ppm		95
50) Dimethylphthalate	7.443	163	853628	48.30	ppm		95
51) m-Dinitrobenzene	7.452	168	146716	49.11	ppm		94
52) 2,6-Dinitrotoluene	7.497	165	196213	47.34	ppm		84
53) o-Dinitrobenzene	7.557	50	169341	45.98	ppm		94
54) Acenaphthylene	7.497	152	1168967	47.30	ppm		90
55) 3-Nitroaniline	7.250	138	288213	48.56	ppm		98
56) Acenaphthene	7.662	153	742176	46.65	ppm		97
57) 2,4-Dinitrophenol	7.704	184	104247	44.51	ppm		97
58) 4-Nitrophenol	7.781	109	129793	47.73	ppm		93
59) Dibenzofuran	7.801	168	1057273	47.63	ppm		90
60) 2,4-Dinitrotoluene	7.838	165	268668	47.60	ppm		86
61) 2,3,5,6-Tetrachlorophenol	7.912	232	207151	48.88	ppm		98
62) 2,3,4,6-Tetrachlorophenol	7.952	232	199326	48.05	ppm		93
63) Diethylphthalate	8.062	149	860270	47.14	ppm		94
64) Fluorene	8.102	166	853415	46.94	ppm		99
65) 4-Chlorophenyl-phenyle...	8.105	204	387983	47.20	ppm		92
66) 4-Nitroaniline	8.162	138	222844	50.40	ppm		99
68) 4,6-Dinitro-2-methylph...	8.199	198	151169	47.19	ppm	#	54
69) Diphenylamine	8.219	169	745473	47.74	ppm		94
70) n-Nitrosodiphenylamine	8.219	169	745473	57.29	ppm		94
71) 1,2-Diphenylhydrazine	8.241	77	870755	45.71	ppm		89
73) 4-Bromophenyl-phenylether	8.528	248	205652	46.79	ppm		94
74) Hexachlorobenzene	8.659	284	199829	47.34	ppm		92
75) Simazine	8.690	201	125620	46.92	ppm		95
76) Atrazine	8.724	200	239117	45.78	ppm		96
77) Pentachlorophenol	8.818	266	136939	50.25	ppm		95
78) Phenanthrene	8.940	178	1182520	47.83	ppm		89
79) Anthracene	8.980	178	1180636	47.88	ppm		89
80) Carbazole	9.128	167	1139001	48.85	ppm		92
81) Di-n-butylphthalate	9.492	149	1382981	47.66	ppm		92
82) Fluoranthene	9.995	202	1223536	47.88	ppm		92
84) Benzidine	10.117	184	539938	50.43	ppm		99
85) Pyrene	10.193	202	1293143	47.93	ppm		91
87) Butylbenzylphthalate	10.912	149	600893	46.62	ppm		99
88) 3,3'-Dichlorobenzidine	11.526	252	322496	55.36	ppm		99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\sx1828\
Data File : x039303.D
Acq On : 1 Apr 2015 9:55 am
Operator : marthav
Sample : cc1826-50
Misc : op55512,sx1828,1000,,,1,1,water
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Apr 02 09:03:20 2015
Quant Method : C:\msdchem\1\METHODS\8270d_03302.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Thu Apr 02 07:55:07 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
89) Benzo[a]anthracene	11.520	228	1011809	48.06 ppm	98
90) Chrysene	11.583	228	941190	47.11 ppm	95
91) bis(2-Ethylhexyl)phtha...	11.702	149	803774	47.10 ppm	98
93) Di-n-octylphthalate	12.683	149	1261394	51.30 ppm	98
94) Benzo[b]fluoranthene	13.186	252	760212	49.41 ppm	99
95) Benzo[k]fluoranthene	13.231	252	761694	48.26 ppm	96
96) Benzo[a]pyrene	13.742	252	708869	51.34 ppm	97
97) Indeno[1,2,3-cd]pyrene	15.891	276	468016	49.45 ppm	99
98) Dibenz[a,h]anthracene	15.962	278	435817	49.38 ppm	96
99) Benzo[g,h,i]perylene	16.368	276	506138	49.34 ppm	100

(#) = qualifier out of range (m) = manual integration (+) = signals summed

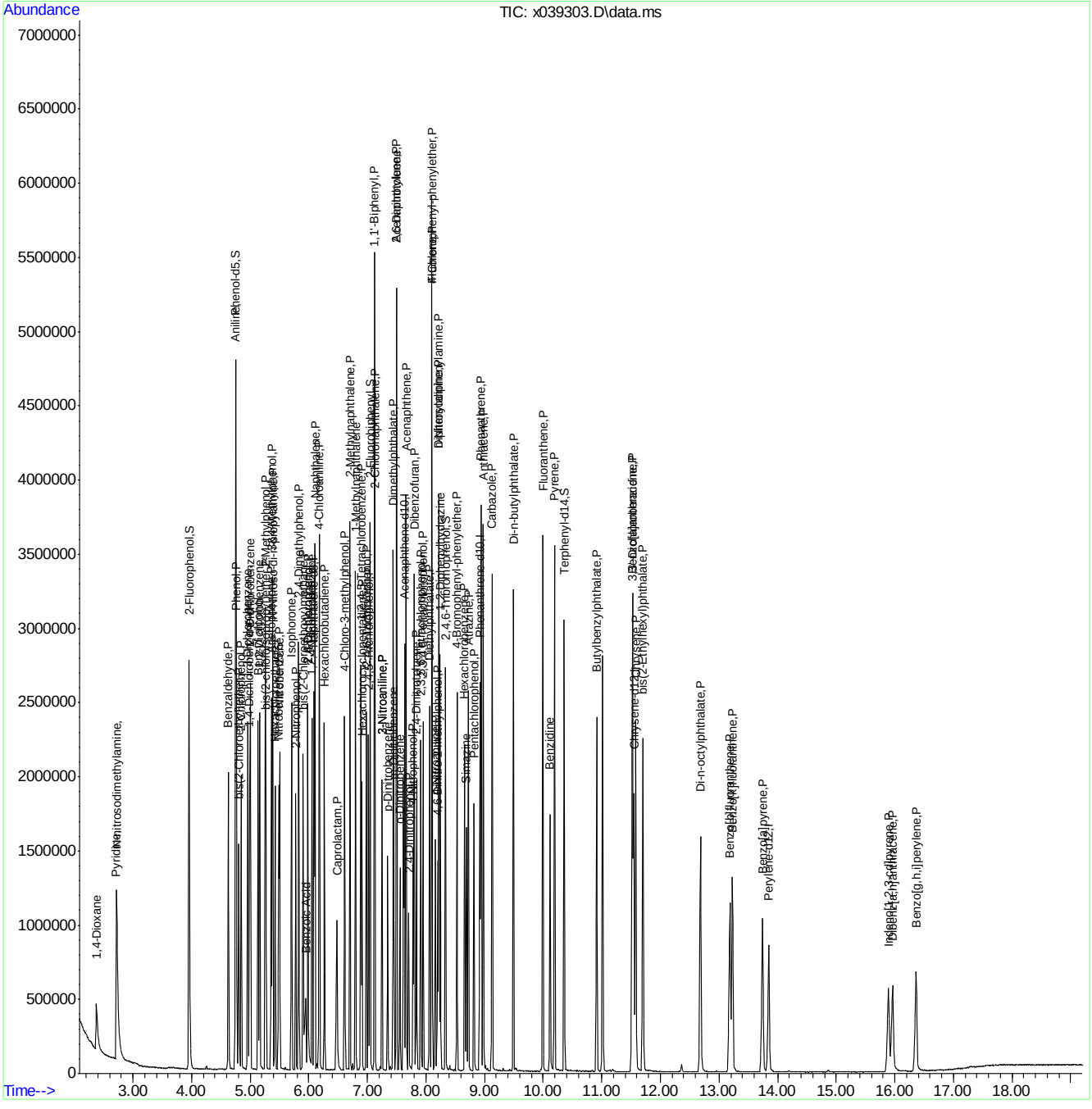
7.6.34

7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\sx1828\
Data File : x039303.D
Acq On : 1 Apr 2015 9:55 am
Operator : marthav
Sample : cc1826-50
Misc : op55512,sx1828,1000,,,1,1,water
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Apr 02 09:03:20 2015
Quant Method : C:\msdchem\1\METHODS\8270d_03302.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Thu Apr 02 07:55:07 2015
Response via : Initial Calibration



Manual Integration Approval Summary

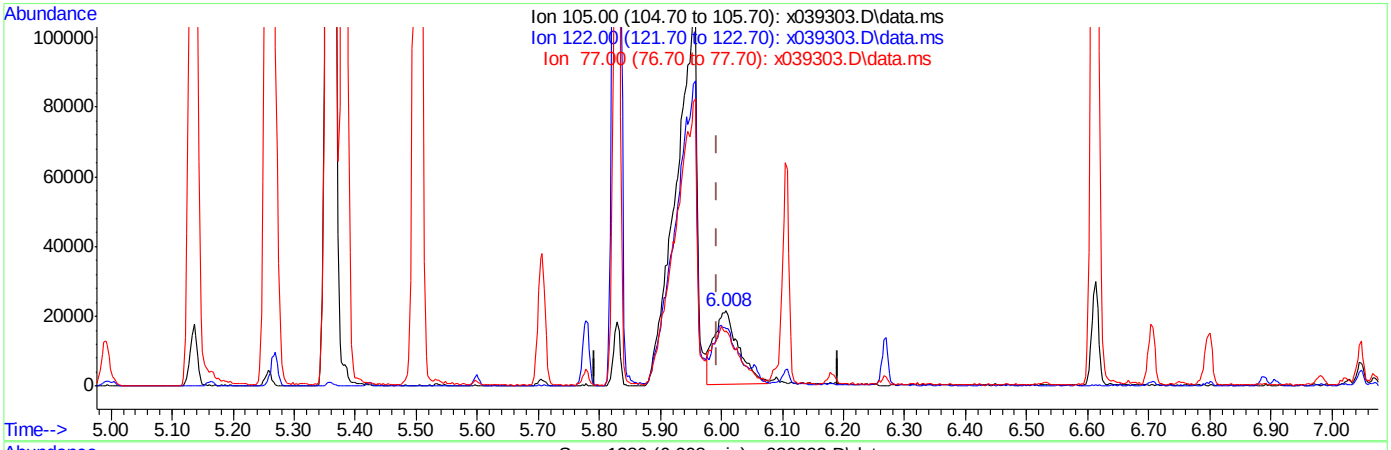
Sample Number:	SX1828-CC1826	**Method:**	SW846 8270D
Lab FileID:	X039303.D	**Analyst approved:**	04/02/15 10:06 Martha Valls
Injection Time:	04/01/15 09:55	**Supervisor approved:**	04/02/15 14:34 Mike Eger

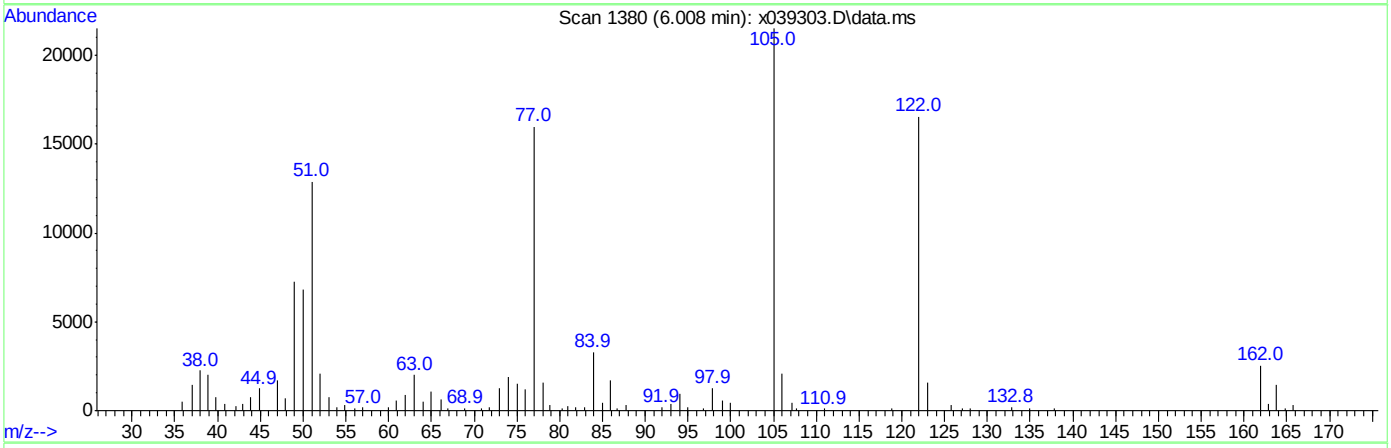
Parameter	CAS	Sig#	R.T. (min.)	Reason
Benzoic Acid	65-85-0		5.95	Split peak

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\sx1828\
Data File : x039303.D
Acq On : 1 Apr 2015 9:55 am
Operator : marthav
Sample : cc1826-50
Misc : op55512,sx1828,1000,,,1,1,water
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Apr 02 07:55:11 2015
Quant Method : C:\msdchem\1\METHODS\8270d_03302.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Thu Apr 02 07:55:07 2015
Response via : Initial Calibration





TIC: x039303.D\data.ms

(29) Benzoic Acid

6.008min (+0.016) 8.67ppm

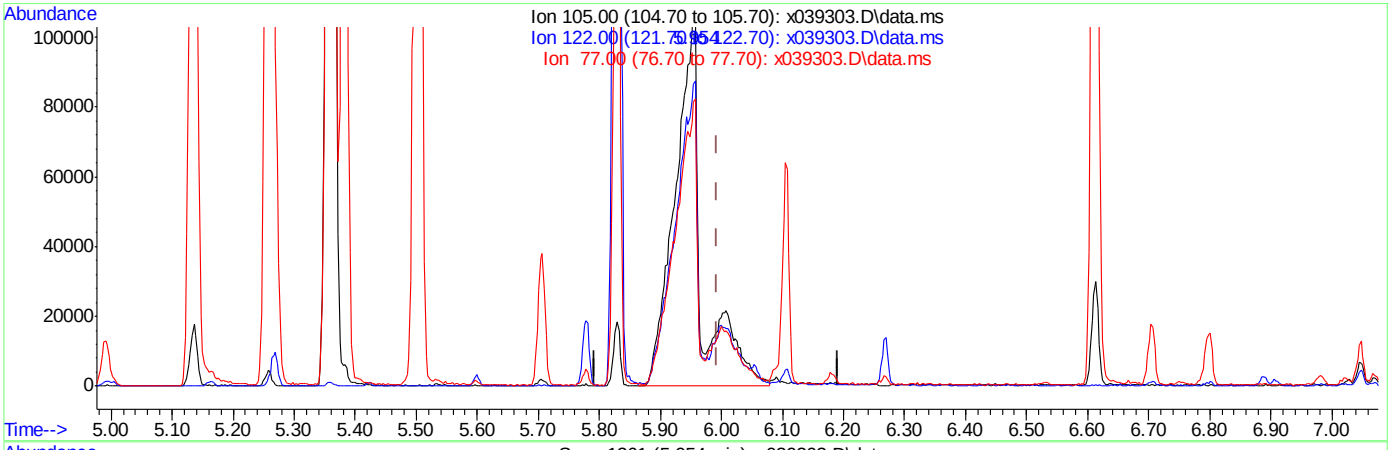
response 59517

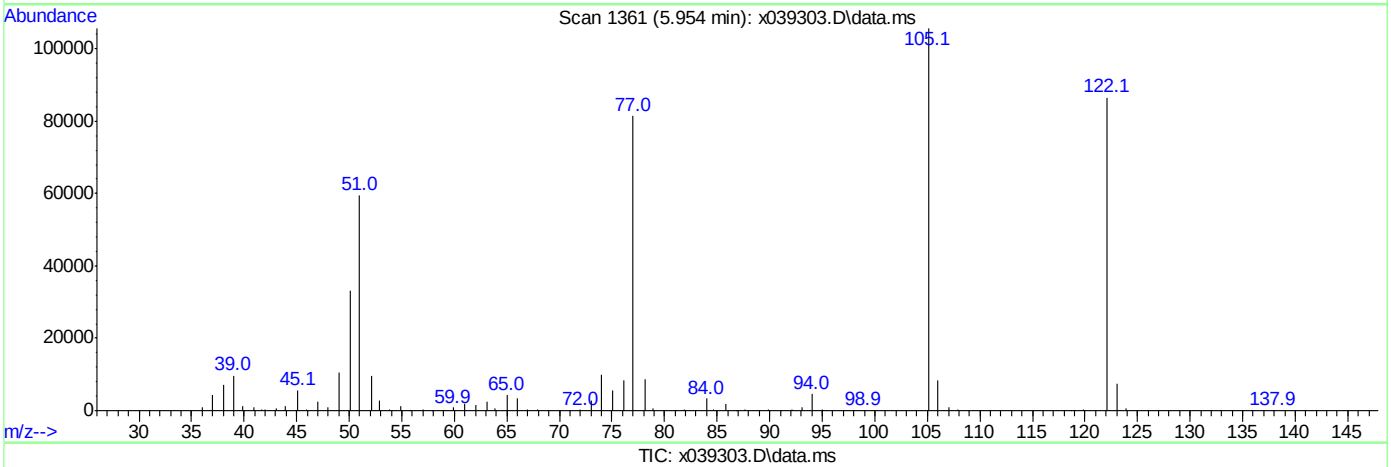
Ion	Exp%	Act%
105.00	100	100
122.00	83.70	73.31
77.00	75.60	69.87
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\sx1828\
Data File : x039303.D
Acq On : 1 Apr 2015 9:55 am
Operator : marthav
Sample : cc1826-50
Misc : op55512,sx1828,1000,,,1,1,water
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Apr 02 07:55:11 2015
Quant Method : C:\msdchem\1\METHODS\8270d_03302.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Thu Apr 02 07:55:07 2015
Response via : Initial Calibration





(29) Benzoic Acid

5.954min (-0.038) 47.51ppm m

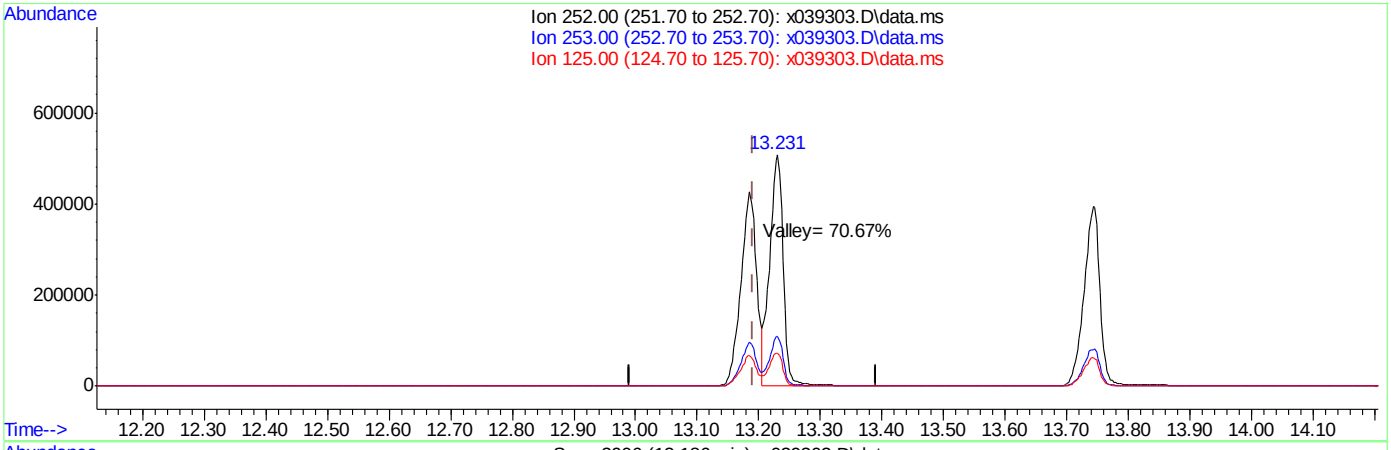
response 326120

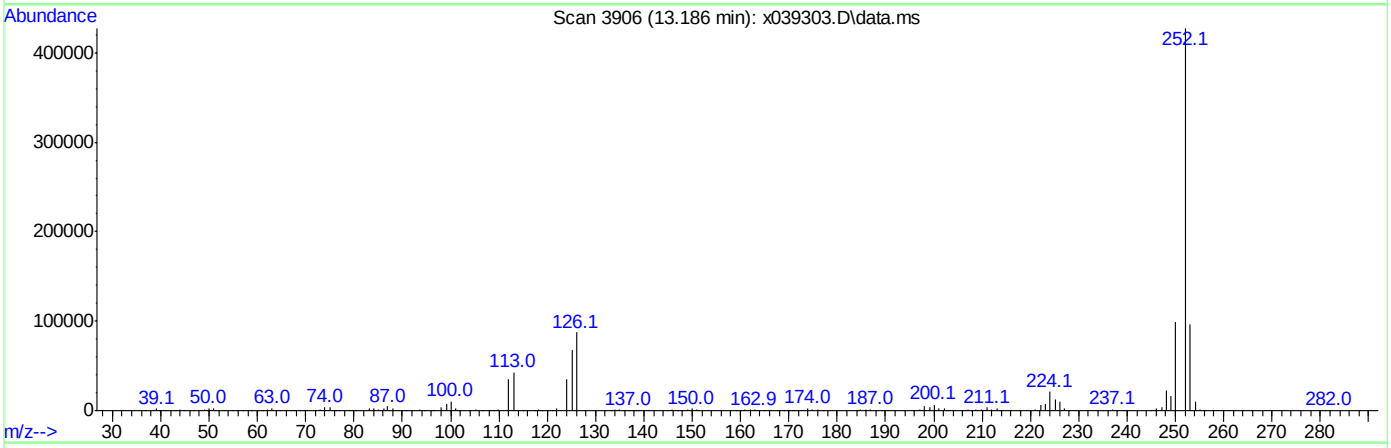
Ion	Exp%	Act%
105.00	100	100
122.00	83.70	81.84
77.00	75.60	77.01
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\sx1828\
Data File : x039303.D
Acq On : 1 Apr 2015 9:55 am
Operator : marthav
Sample : cc1826-50
Misc : op55512,sx1828,1000,,,1,1,water
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Apr 02 07:55:11 2015
Quant Method : C:\msdchem\1\METHODS\8270d_03302.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Thu Apr 02 07:55:07 2015
Response via : Initial Calibration





TIC: x039303.D\data.ms

(94) Benzo[b]fluoranthene (P)

13.186min (-0.006) 49.41ppm

response 760212

Ion	Exp%	Act%
252.00	100	100
253.00	22.40	22.21
125.00	14.60	15.65
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\sx1828\
Data File : x039304.D
Acq On : 1 Apr 2015 10:19 am
Operator : marthav
Sample : icv1826-50,hexachlorobenzene
Misc : op55512,sx1828,1000,,,1,1,water
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Apr 02 09:04:53 2015
Quant Method : C:\msdchem\1\METHODS\8270d_03302.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Tue Mar 31 09:29:41 2015
Response via : Initial Calibration

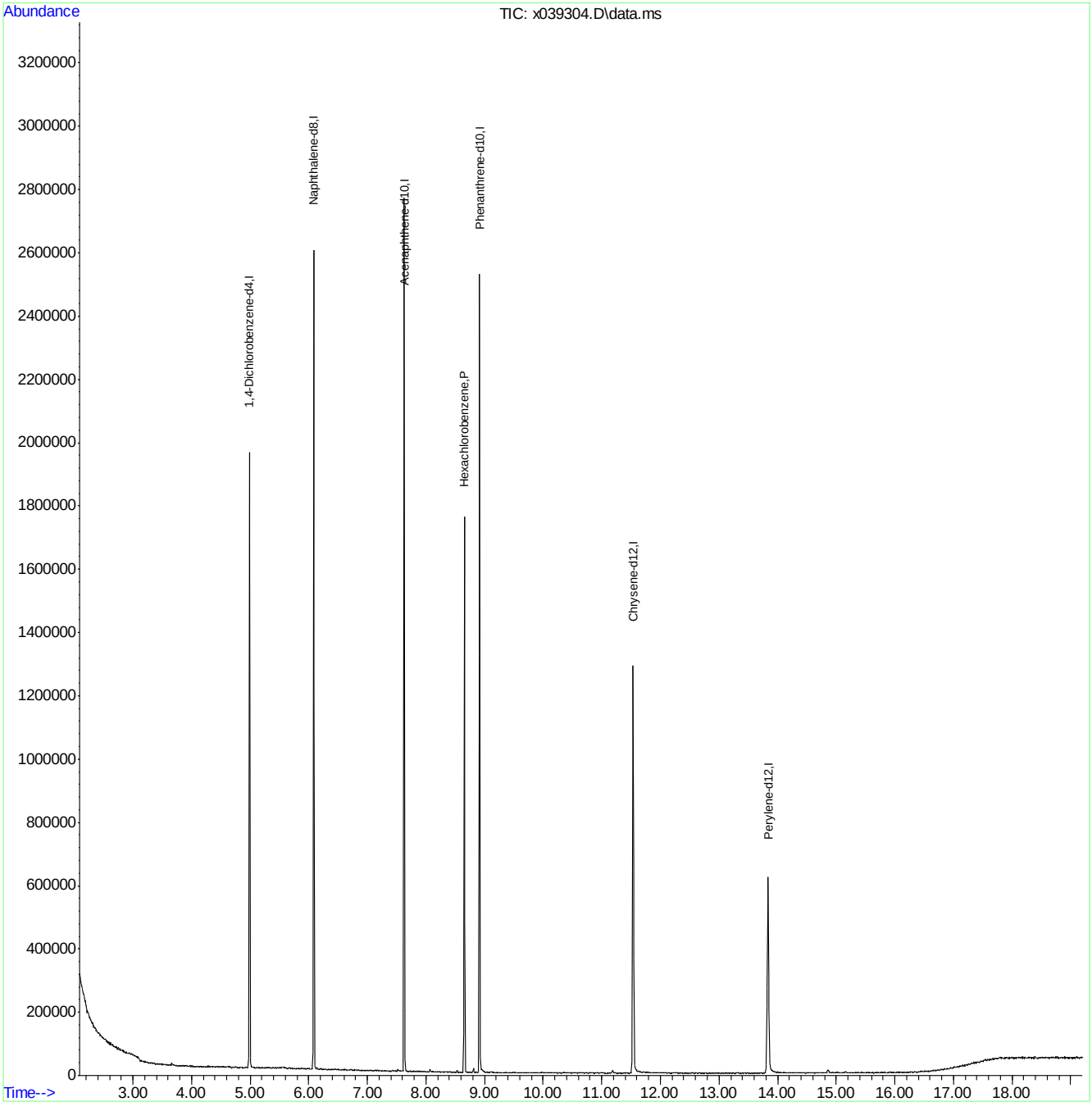
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.988	152	233840	40.00	ppm	0.00
22) Naphthalene-d8	6.085	136	918965	40.00	ppm	0.00
41) Acenaphthene-d10	7.628	164	494225	40.00	ppm	0.00
67) Phenanthrene-d10	8.915	188	733547	40.00	ppm	0.00
83) Chrysene-d12	11.535	240	554431	40.00	ppm	-0.01
92) Perylene-d12	13.839	264	353446	40.00	ppm	-0.01
System Monitoring Compounds						
5) 2-Fluorophenol	0.000	112	0	0.00	ppm	
Spiked Amount 100.000	Range 14 - 67		Recovery = 0.00%#			
9) Phenol-d5	0.000	99	0	0.00	ppm	
Spiked Amount 100.000	Range 10 - 50		Recovery = 0.00%#			
23) Nitrobenzene-d5	0.000	82	0	0.00	ppm	
Spiked Amount 50.000	Range 42 - 108		Recovery = 0.00%#			
45) 2-Fluorobiphenyl	0.000	172	0	0.00	ppm	
Spiked Amount 50.000	Range 40 - 106		Recovery = 0.00%#			
72) 2,4,6-Tribromophenol	0.000	330	0	0.00	ppm	
Spiked Amount 100.000	Range 33 - 118		Recovery = 0.00%#			
86) Terphenyl-d14	0.000	244	0d	0.00	ppm	
Spiked Amount 50.000	Range 39 - 121		Recovery = 0.00%#			
Target Compounds						Qvalue
74) Hexachlorobenzene	8.656	284	155102	42.15	ppm	91

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\sx1828\
Data File : x039304.D
Acq On : 1 Apr 2015 10:19 am
Operator : marthav
Sample : icv1826-50,hexachlorobenzene
Misc : op55512,sx1828,1000,,,1,1,water
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Apr 02 09:04:53 2015
Quant Method : C:\msdchem\1\METHODS\8270d_03302.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Tue Mar 31 09:29:41 2015
Response via : Initial Calibration



Manual Integrations APPROVED (compounds with "m" flag)
Mike Eger
04/02/15 14:34

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\sx1828\
Data File : x039327.D
Acq On : 1 Apr 2015 8:09 pm
Operator : marthav
Sample : ecc1826-50
Misc : op55512,sx1828,1000,,,1,1,water
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Apr 02 09:45:55 2015
Quant Method : C:\msdchem\1\METHODS\8270d_03302.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Tue Mar 31 09:29:41 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.994	152	328427	40.00	ppm	0.00
22) Naphthalene-d8	6.091	136	1242980	40.00	ppm	0.00
41) Acenaphthene-d10	7.636	164	711383	40.00	ppm	0.00
67) Phenanthrene-d10	8.921	188	1138658	40.00	ppm	0.00
83) Chrysene-d12	11.552	240	993196	40.00	ppm	0.00
92) Perylene-d12	13.853	264	614774	40.00	ppm	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	3.962	112	1158324	98.51	ppm	0.00
Spiked Amount 100.000	Range 14 - 67		Recovery = 98.51%#			
9) Phenol-d5	4.761	99	1134365	94.85	ppm	0.00
Spiked Amount 100.000	Range 10 - 50		Recovery = 94.85%#			
23) Nitrobenzene-d5	5.491	82	648829	49.28	ppm	0.00
Spiked Amount 50.000	Range 42 - 108		Recovery = 98.56%			
45) 2-Fluorobiphenyl	7.048	172	1120130	46.46	ppm	0.00
Spiked Amount 50.000	Range 40 - 106		Recovery = 92.92%			
72) 2,4,6-Tribromophenol	8.335	330	265649	103.86	ppm	0.00
Spiked Amount 100.000	Range 33 - 118		Recovery = 103.86%			
86) Terphenyl-d14	10.361	244	1104918	48.69	ppm	0.01
Spiked Amount 50.000	Range 39 - 121		Recovery = 97.38%			
Target Compounds						Qvalue
2) 1,4-Dioxane	2.405	88	252097	48.91	ppm	97
3) N-nitrosodimethylamine	2.755	42	344924	46.01	ppm	98
4) Pyridine	2.743	79	662125	48.34	ppm	97
6) Benzaldehyde	4.633	106	389405	38.58	ppm	100
7) Aniline	4.755	93	846245	48.69	ppm	96
8) bis(2-Chloroethyl)ether	4.812	93	540735	47.91	ppm	98
10) Phenol	4.769	94	746153	47.68	ppm	95
11) 2-Chlorophenol	4.849	128	611211	48.52	ppm	97
12) 1,3-Dichlorobenzene	4.962	146	663554	49.58	ppm	98
13) 1,4-Dichlorobenzene	5.008	146	650473	48.59	ppm	98
14) 1,2-Dichlorobenzene	5.164	146	631294	49.49	ppm	96
15) Benzyl alcohol	5.141	108	402697	49.82	ppm	96
16) 2-Methylphenol	5.261	108	528656	48.20	ppm	97
17) bis(2-chloroisopropyl)...	5.269	45	854564	40.40	ppm	96
18) Acetophenone	5.363	105	759171	45.78	ppm	97
19) N-Nitroso-di-n-propyla...	5.392	70	276925	42.67	ppm	97
20) 3&4-Methylphenol	5.386	108	552356	47.99	ppm	98
21) Hexachloroethane	5.426	117	267896	48.88	ppm	97
24) Nitrobenzene	5.508	77	609140	48.86	ppm	98
25) Isophorone	5.710	82	1095983	48.06	ppm	98
26) 2-Nitrophenol	5.781	139	325076	50.28	ppm	97
27) 2,4-Dimethylphenol	5.832	107	565264	47.91	ppm	98
28) bis(2-Chloroethoxy)met...	5.906	93	625824	48.33	ppm	99
29) Benzoic Acid	5.971	105	444018m	49.48	ppm	
30) 2,4-Dichlorophenol	5.988	162	467207	49.05	ppm	98
31) 1,2,4-Trichlorobenzene	6.056	180	489282	50.39	ppm	99
32) Naphthalene	6.108	128	1572670	49.08	ppm	91

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Misc : op55512,sx1828,1000,,,1,1,water
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Apr 02 09:45:55 2015
Quant Method : C:\msdchem\1\METHODS\8270d_03302.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Tue Mar 31 09:29:41 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 4-Chloroaniline	6.179	127	728155	49.21	ppm	97
34) 2,6-Dichlorophenol	5.988	162	467207	49.05	ppm	98
35) Hexachlorobutadiene	6.270	225	270259	49.81	ppm	99
36) Caprolactam	6.491	113	189645m	49.08	ppm	
37) 4-Chloro-3-methylphenol	6.616	107	507824	49.18	ppm	99
38) 2-Methylnaphthalene	6.707	142	1117438	49.13	ppm	96
39) 1-Methylnaphthalene	6.801	142	976968	48.37	ppm	98
40) 1,2,4,5-Tetrachloroben...	6.889	216	484045	51.02	ppm	95
42) Hexachlorocyclopentadiene	6.909	237	255506	40.08	ppm	99
43) 2,4,6-Trichlorophenol	6.983	196	327306	48.62	ppm	97
44) 2,4,5-Trichlorophenol	7.020	196	343135	47.82	ppm	100
46) 1,1'-Biphenyl	7.125	154	1217884	44.94	ppm	92
47) 2-Chloronaphthalene	7.130	162	965833	46.12	ppm	95
48) 2-Nitroaniline	7.253	65	372052	47.42	ppm	98
49) p-Dinitrobenzene	7.349	75	234116	49.42	ppm	96
50) Dimethylphthalate	7.446	163	1120497	47.52	ppm	96
51) m-Dinitrobenzene	7.454	168	199844	50.14	ppm	95
52) 2,6-Dinitrotoluene	7.500	165	267929	48.45	ppm	96
53) o-Dinitrobenzene	7.560	50	228899	46.59	ppm	95
54) Acenaphthylene	7.500	152	1521791	46.15	ppm	91
55) 3-Nitroaniline	7.253	138	389211	49.16	ppm	97
56) Acenaphthene	7.665	153	1006105	47.41	ppm	95
57) 2,4-Dinitrophenol	7.704	184	125112	40.54	ppm	99
58) 4-Nitrophenol	7.784	109	178201	49.04	ppm	98
59) Dibenzofuran	7.801	168	1393177	47.04	ppm	93
60) 2,4-Dinitrotoluene	7.841	165	369942	49.13	ppm	90
61) 2,3,5,6-Tetrachlorophenol	7.915	232	282321	49.94	ppm	99
62) 2,3,4,6-Tetrachlorophenol	7.952	232	270011	48.79	ppm	95
63) Diethylphthalate	8.065	149	1149670	47.22	ppm	96
64) Fluorene	8.105	166	1132440	46.69	ppm	98
65) 4-Chlorophenyl-phenyle...	8.105	204	539966	49.24	ppm	96
66) 4-Nitroaniline	8.168	138	291233	49.38	ppm	99
68) 4,6-Dinitro-2-methylph...	8.202	198	185014	43.05	ppm	94
69) Diphenylamine	8.222	169	969711	45.89	ppm	96
70) n-Nitrosodiphenylamine	8.222	169	969711	55.07	ppm	96
71) 1,2-Diphenylhydrazine	8.244	77	1167963	45.31	ppm	90
73) 4-Bromophenyl-phenylether	8.531	248	296791	49.90	ppm	94
74) Hexachlorobenzene	8.659	284	285001	49.90	ppm	94
75) Simazine	8.696	201	169877	46.89	ppm	97
76) Atrazine	8.727	200	309925	43.85	ppm	93
77) Pentachlorophenol	8.821	266	194276	52.69	ppm	96
78) Phenanthrene	8.943	178	1550321	46.34	ppm	91
79) Anthracene	8.983	178	1561457	46.79	ppm	91
80) Carbazole	9.131	167	1480354	46.91	ppm	93
81) Di-n-butylphthalate	9.495	149	1809327	46.08	ppm	93
82) Fluoranthene	9.997	202	1663692	48.11	ppm	92
84) Benzidine	10.117	184	578198	39.68	ppm	100
85) Pyrene	10.196	202	1731329	47.16	ppm	92
87) Butylbenzylphthalate	10.915	149	829506	47.29	ppm	97
88) 3,3'-Dichlorobenzidine	11.529	252	410173	51.74	ppm	99

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ALS Vial : 2 Sample Multiplier: 1

Quant Time: Apr 02 09:45:55 2015
Quant Method : C:\msdchem\1\METHODS\8270d_03302.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Tue Mar 31 09:29:41 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
89) Benzo[a]anthracene	11.523	228	1399255	48.83 ppm	98
90) Chrysene	11.586	228	1317719	48.46 ppm	95
91) bis(2-Ethylhexyl)phtha...	11.705	149	1097307	47.25 ppm	96
93) Di-n-octylphthalate	12.685	149	1695621	53.86 ppm	99
94) Benzo[b]fluoranthene	13.188	252	1053187	53.46 ppm	97
95) Benzo[k]fluoranthene	13.237	252	1009340	49.95 ppm	98
96) Benzo[a]pyrene	13.748	252	913771	51.69 ppm	98
97) Indeno[1,2,3-cd]pyrene	15.899	276	603659	49.79 ppm	99
98) Dibenz[a,h]anthracene	15.967	278	563025	49.77 ppm	100
99) Benzo[g,h,i]perylene	16.368	276	640428	48.76 ppm	99

(#) = qualifier out of range (m) = manual integration (+) = signals summed

7.6.36

7

Quantitation Report (QT Reviewed)

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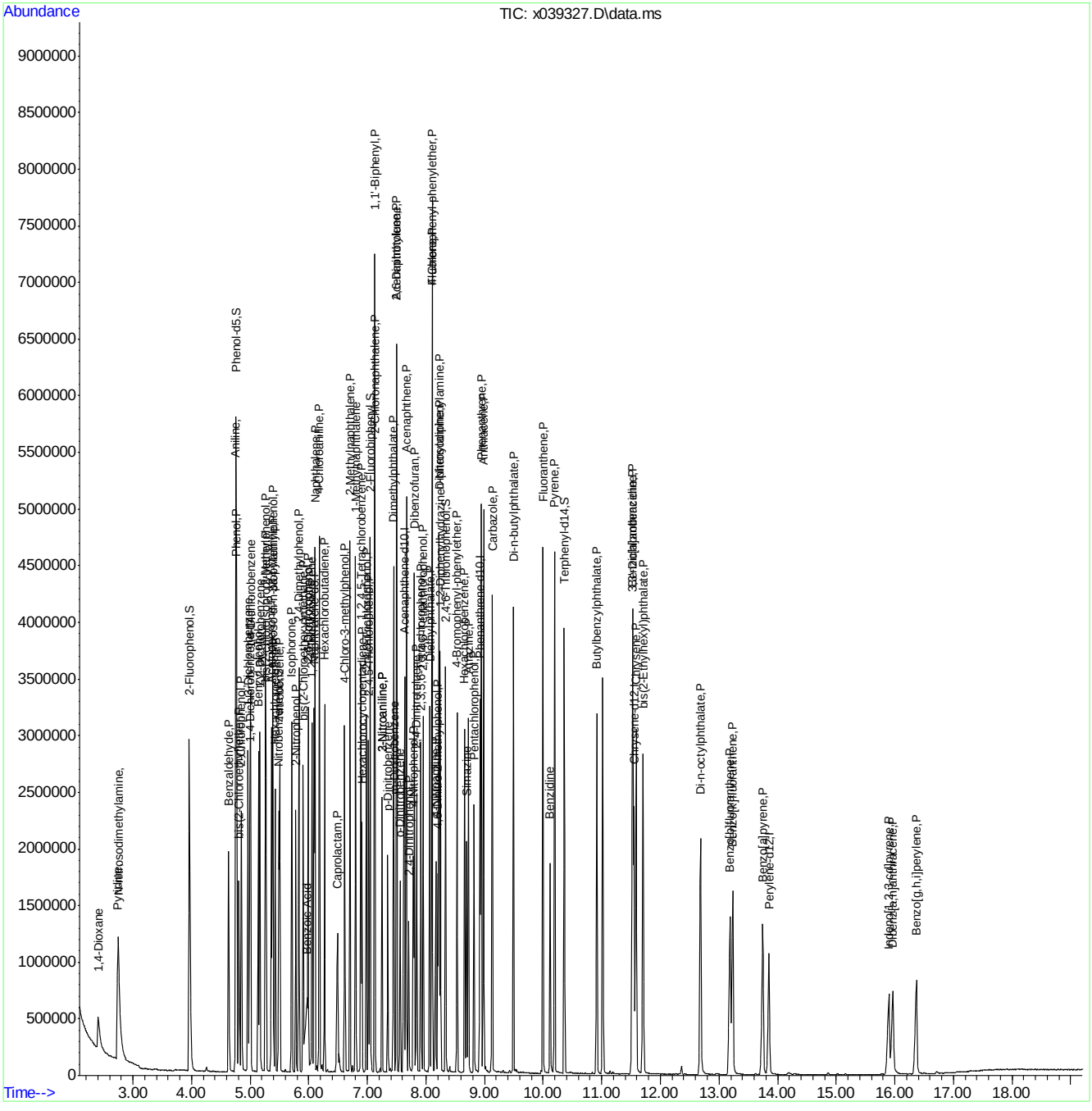
Quant Title : SW846 8270D OR EPA 625
QLast Update : Tue Mar 31 09:29:41 2015
Response via : Initial Calibration



Manual Integration Approval Summary

Sample Number:	SX1828-ECC1826	**Method:**	SW846 8270D
Lab FileID:	X039327.D	**Analyst approved:**	04/02/15 10:06 Martha Valls
Injection Time:	04/01/15 20:09	**Supervisor approved:**	04/02/15 14:34 Mike Eger

Parameter	CAS	Sig#	R.T. (min.)	Reason
Benzoic Acid	65-85-0		5.97	Split peak
Caprolactam	105-60-2		6.49	Split peak

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\sx1828\
Data File : x039327.D
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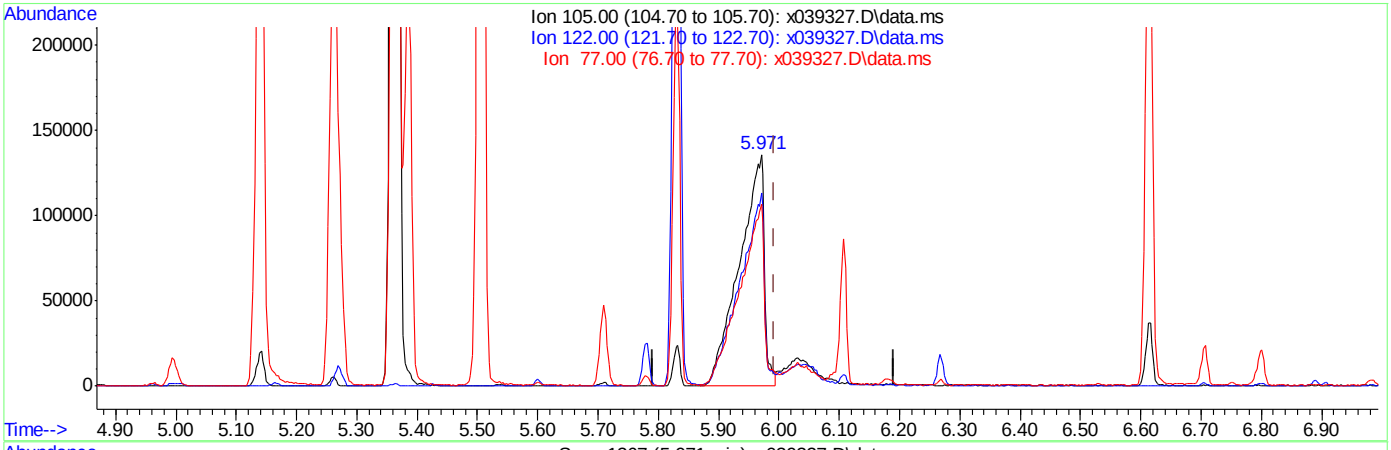
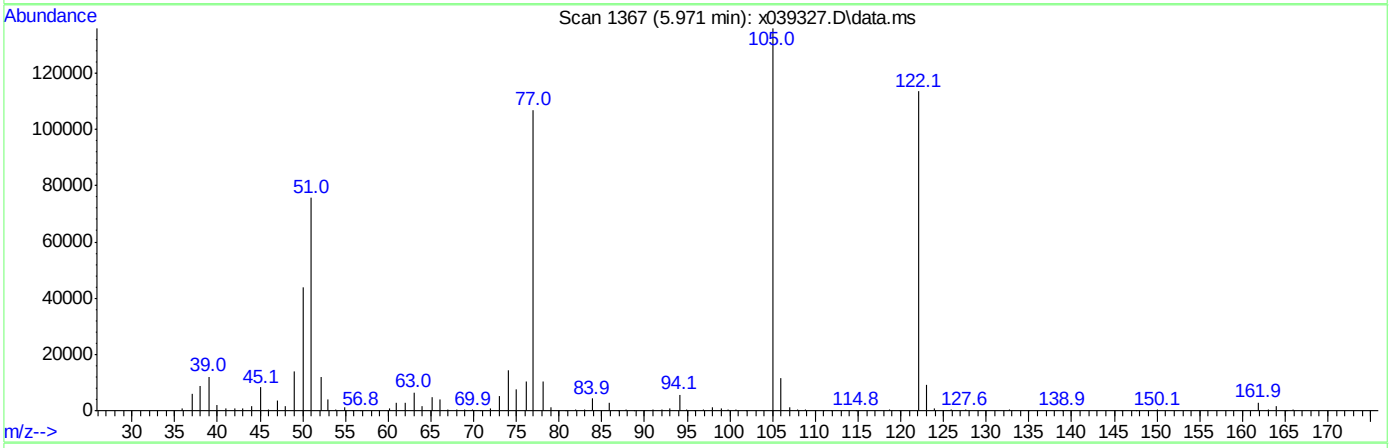
Operator : marthav
Sample : ecc1826-50
Misc : op55512,sx1828,1000,,,1,1,water
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Apr 02 07:56:40 2015
Quant Method : C:\msdchem\1\METHODS\8270d_03302.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Tue Mar 31 09:29:41 2015
Response via : Initial Calibration





(29) Benzoic Acid

5.971min (-0.021) 43.35ppm

response 389019

Ion	Exp%	Act%
105.00	100	100
122.00	83.70	83.09
77.00	75.60	77.64
0.00	0.00	0.00

Quantitation Report (Qedit)

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Operator : marthav
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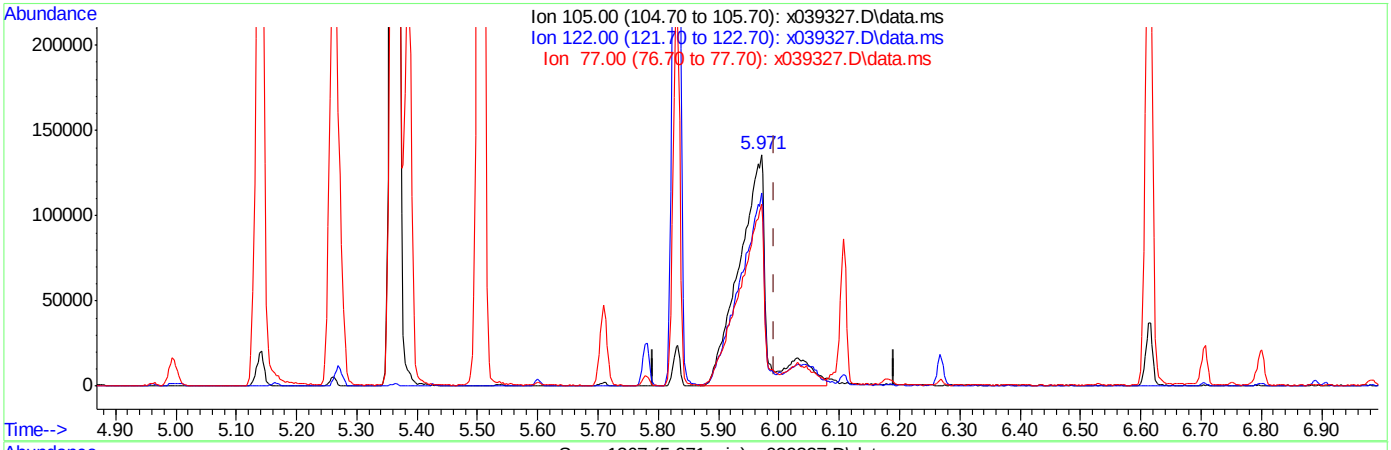

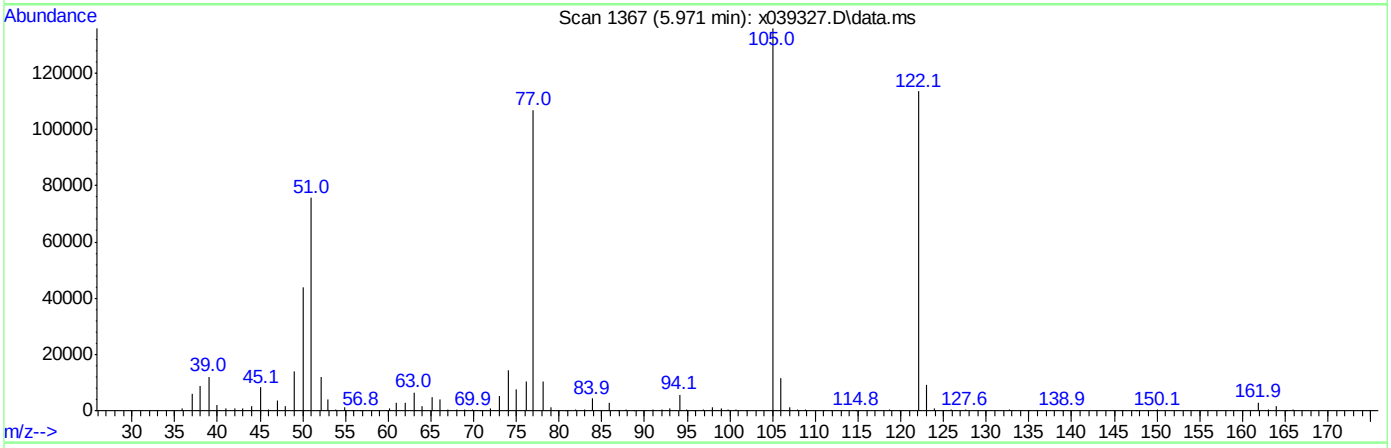

TIC: x039327.D\data.ms

(29) Benzoic Acid

5.971min (-0.021) 49.48ppm m

response 444018

Ion	Exp%	Act%
105.00	100	100
122.00	83.70	83.47
77.00	75.60	78.63
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\sx1828\
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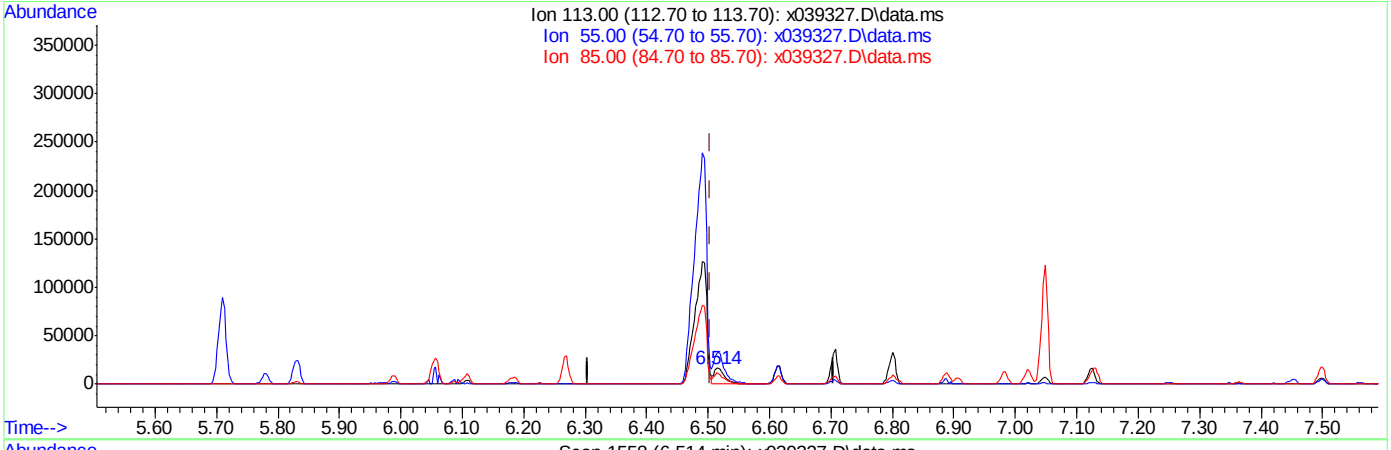

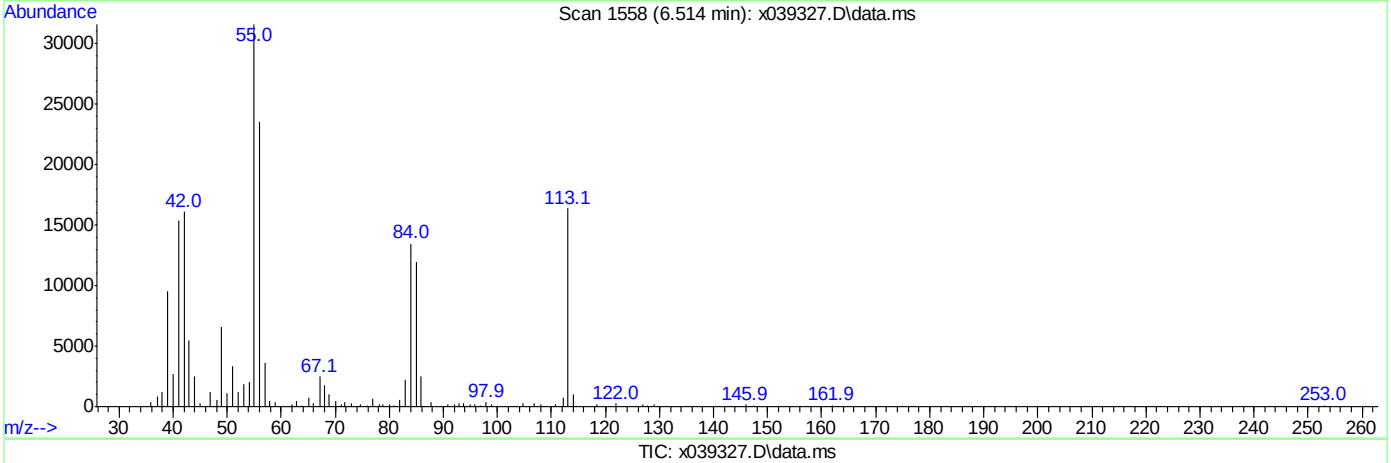

TIC: x039327.D\data.ms

(36) Caprolactam (P)

6.514min (+0.009) 5.47ppm

response 21128

Ion	Exp%	Act%
113.00	100	100
55.00	179.50	191.31
85.00	64.50	74.81
0.00	0.00	0.00

Quantitation Report (Qedit)

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Operator : marthav
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ALS Vial : 2 Sample Multiplier: 1

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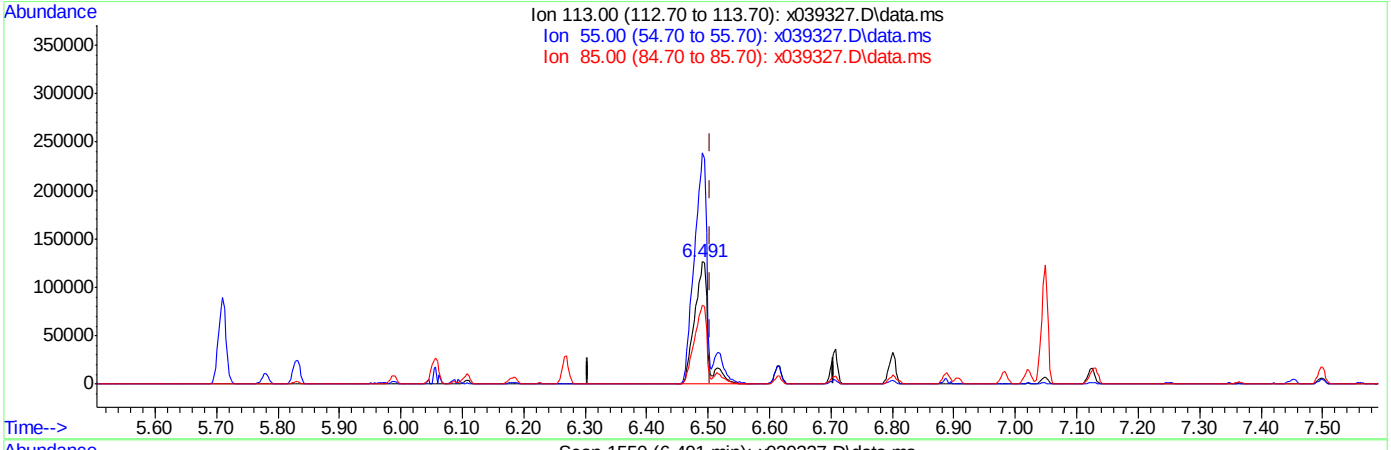
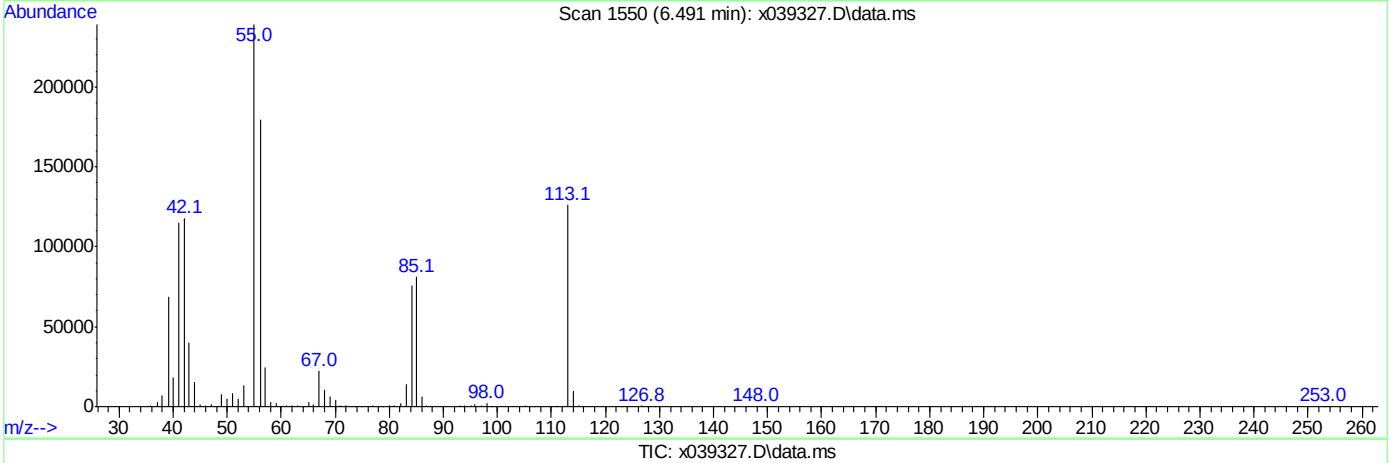
Quant Title : SW846 8270D OR EPA 625
QLast Update : Tue Mar 31 09:29:41 2015
Response via : Initial Calibration





TIC: x039327.D\data.ms

(36) Caprolactam (P)

6.491min (-0.013) 49.08ppm m

response 189645

Ion	Exp%	Act%
113.00	100	100
55.00	179.50	189.59
85.00	64.50	64.39
0.00	0.00	0.00

ACCUTEST LABORATORIES SE

DATE:	09-01-15
COLUMN TYPE:	7 65 MS
AMOUNT INJECTED:	5 ul
INSTRUMENT:	MSBNA06-T

MS BNA06-T ANALYSIS LOG

METHODS*:	8270D SMPAH
ACQ. METHOD:	ACQ_PAH
PROC. METHOD:	STMLW
CALIB. DATE:	09-01-15
RUN BATCH: ST	809

ANALYST:	MA
MECL2 LOT #:	085533
DFTPP RESPONSE:	1046640
EM VOLTAGE:	2165

DATA FILE	ALS #	SAMPLE ID	SAMPLE METHOD	OP BATCH	DF	MANUALLY INTEGRATED PEAKS RATIONALE, PEAK #	COMMENTS I 5 5 J-110
T 017697	1	DFTPP	DFTPP	55131	1x		
T 98	2	ic809-1	8270	55136	1x 81592	#13 MP	Pass PCB Aroclor
T 99	3	-2			5x 10x490		
T 017700	4	-3			20x 20x980		
T 01	5	ic809 -4			10x 10x980		
T 02	6	ic809 -5			5x 10x490		
T 03	7	-6			2x 20x980		
T 04	8	-7			1x	#26 MP	
T 05	9	ic809-4		55137	20x 20x980		in w/ MW
T 06	9						Pass
T							
T							
T							
T							
T							
T							
T							
T							
T							
T							

MLA 09/01/15

MLA 09/01/15

* For NELAC purposes, Method 625 includes analytes by SOP MS004 and 8270 includes analytes by SOP MS006

Manual Integration Rationale SOP QA029: MP Missed Peak; OP Overlapping Peak; SP Split Peak; PDB Poorly Defined Baseline; BR Baseline Ripple; PII Poor Instrument Integration

All strikeouts must be initialed and dated. If correction was not due to a transcription error, then list the reason for correction.

msbna06_t_log.xls NF rev. 08/11

Analyst's Signature: [signature]

ACCUTEST LABORATORIES FA23189

ACCUTEST LABORATORIES SE

DATE:	04-06-15
COLUMN TYPE:	TG5MS
AMOUNT INJECTED:	5 ul
INSTRUMENT:	MSBNA06-T

MS BNA06-T ANALYSIS LOG

METHODS*:	8270D SIMPAH
ACQ. METHOD:	ACQPAH
PROC. METHOD:	SIM.UV
CALIB. DATE:	04-01-15
RUN BATCH:	ST 810

ANALYST:	MGP
MECL2 LOT #:	087573
DFTPP RESPONSE:	1114991
EM VOLTAGE:	2165

DATA FILE	ALS #	SAMPLE ID	SAMPLE METHOD	OP BATCH	DF	MANUALLY INTEGRATED PEAKS RATIONALE, PEAK #	COMMENTS ~5 55110
T017707	1	Dstpp	Dstpp	55131	1X		pass
T 08	2	LCS859-5	8270	55136	5X 100ug/mL		pass
T 09	3	OP55540-BS		OP55540	1X		—
T 10	4	-MB					ND
T 11	5	FA23189-43					ND
T 12	6	FA23199-1					— m 40X
T 13	7	FA23188-25					ND
T 14	8	OP55540-MS					—
T 15	9	-MSD					—
T 16	10	FA23199-2					ND
T 17	11	FA23199-3					ND
T 18	12	-4					ND
T 19	13	-5					ND
T 20	14	FA23262-1					ND
T 21	15	FA23192-1					~~ND~~ ✓
T 22							Inst. stopped.
T							Qsms reported Equipment blk
T							
T							
T							

MGA 04-07-15

* For NELAC purposes, Method 625 includes analytes by SOP MS004 and 8270 includes analytes by SOP MS006
Manual Integration Rationale SOP QA029: **MP** Missed Peak, **OP** Overlapping Peak, **SP** Split Peak, **PDB** Poorly Defined Baseline, **BR** Baseline Ripple, **PII** Poor Instrument Integration
All strikeouts must be initialed and dated. If correction was not due to a transcription error, then list the reason for correction.

msbna06_t_log.xls NF rev. 08/11

Analyst's Signature: MGP

ACCUTEST LABORATORIES SE

DATE:	04-01-15
COLUMN TYPE:	624/MS
AMOUNT INJECTED:	5 ul
INSTRUMENT:	MSBNA06-T

MS BNA06-T ANALYSIS LOG

METHODS*:	8270D SMOOL
ACQ. METHOD:	ACQ-PAH
PROC. METHOD:	STD
CALIB. DATE:	04-01-15
RUN BATCH:	ST 811

ANALYST:	MA
MECL2 LOT #:	032573
DFTPP RESPONSE:	1367318
EM VOLTAGE:	2165

DATA FILE	ALS #	SAMPLE ID	SAMPLE METHOD	OP BATCH	DF	MANUALLY INTEGRATED PEAKS RATIONALE, PEAK #	COMMENTS
							IS 55149
T 017723	1	dfttpp	dfttpp	55135	1X		Pass
T 24	2	CC809-5	8270	55136	5X 100,400		Pass
T 25	3	OP55540-BS		OP55540	1X		—
T 26	4	-MB					ND
T 27	16	Fa23193-4					ND
T 28	17	Fa22161-1					M10x only IS fail
T 29	18	-2					M4x only IS fail
T 30	19	-3					
T 31	20	-4					
T 32	21	-5					M10x only IS fail
T 33	22	Fa23196-2					ND
T 34	23	Fa22199-1			40x 10x 360		— Rep. 1X & 40X
T 35	24	Fa23193-1			10x 40x 360		—
T 36	26	Fa23230-7		OP55560	1X		ND Reprep.
T 37	25	OP55505-MS		OP55505	4X 100,400		—
T 38	26	-MSD					—
T 39	27	Fa23221-3		OP55560	10X 40,360		—
T 40	28	OP55593-BS		OP55593	1X		ND Reprep lw
T 41	29	-MB					ND
T 42	30	Fa23258-14					

* For NELAC purposes, Method 625 includes analytes by SOP MS004 and 8270 includes analytes by SOP MS006
Manual Integration Rationale SOP QA029: **MP** Missed Peak, **OP** Overlapping Peak, **SP** Split Peak, **PDB** Poorly Defined Baseline, **BR** Baseline Ripple, **PII** Poor Instrument Integration
All strikeouts must be initialed and dated. If correction was not due to a transcription error, then list the reason for correction.

Analyst's Signature: MA

msbna06_t_log.xls NF rev. 08/11

ACCUTEST LABORATORIES SE

DATE:	04-01-15
COLUMN TYPE:	7 65 US
AMOUNT INJECTED:	5 ul
INSTRUMENT:	MSBNA06-T

MS BNA06-T ANALYSIS LOG

METHODS*:	8270 D SIM LL
ACQ. METHOD:	A CG-DAW
PROC. METHOD:	SIM LL
CALIB. DATE:	04-01-15
RUN BATCH:	ST 811

ANALYST:	MGA
MECL2 LOT #:	637-33
DFTPP RESPONSE:	1367718
EM VOLTAGE:	2165

DATA FILE	ALS #	SAMPLE ID	SAMPLE METHOD	OP BATCH	DF	MANUALLY INTEGRATED PEAKS RATIONALE, PEAK #	COMMENTS
T017743	31	FC22271-13	8270	OP55593	1X		NO
T 44	1	dftpp	dftpp	55135	1X		Pass
T 45	2	CL85-5	8270	55134			Pass
T 46	32	OP55593MS	8270	OP55593	1X		—
T 47	33	-MSD					—
T 48	34	OP55576-BS		OP55576			—
T 49	35	-MB					NO
T 50	36	FC23230-10					NO
T 51	37	-12					NO
T 52	38	-20					NO
T 53	39	FC23262-2					NO
T 54	40	OP55576MS					—
T 55	41	-MSD					—
T 56	42	FC23262-1					~~NO~~
T 57	43	-3					NO
T 58	44	-4					NO
T 59	45	-5				emp	—
T 60	46	-6					~~Only ISFail~~
T 61	47	-7					MZ 1ox Only ISFail
T 62	48	-8					MZ 1x Only ISFail

* For NELAC purposes, Method 625 includes analytes by SOP MS004 and 8270 includes analytes by SOP MS006

Manual Integration Rationale SOP QA029: MP Missed Peak, OP Overlapping Peak, SP Split Peak, PDB Poorly Defined Baseline, BR Baseline Ripple, PII Poor Instrument Integration

All strikeouts must be initialed and dated. If correction was not due to a transcription error, then list the reason for correction.

msbna06_t_log.xls NF rev. 08/11

Analyst's Signature: MGA

ACCUTEST LABORATORIES SE

DATE:	04-01-15
COLUMN TYPE:	T6TMS
AMOUNT INJECTED:	5 ul
INSTRUMENT:	MSBNA06-T

MS BNA06-T ANALYSIS LOG

METHODS*:	8270D SIM/PAH
ACQ. METHOD:	ACQ-PAH
PROC. METHOD:	SIM LK
CALIB. DATE:	04-01-15
RUN BATCH:	ST 811

ANALYST:	MGA
MECL2 LOT #:	085533
DFTPP RESPONSE:	13677218
EM VOLTAGE:	2165

DATA FILE	ALS #	SAMPLE ID	SAMPLE METHOD	OP BATCH	DF	MANUALLY INTEGRATED PEAKS RATIONALE, PEAK #	COMMENTS
T 017763	49	FA23262-9	8270	OP55576	1X		MA 10X Rp. 1X & 10X
T 64	50	-10					—
T 65	51	-11					— MA 25X only
T 66	~~52~~	dfbp	dfbp	55135			— Pass
T 67	2	CCS05-5	8270	55136	SP 100ng/mL		— Pass
T 68	52	FA23262-12		OP55576	1X		—
T 69	53	FA23271-3					NO
T 70	54	-4					NO
T 71	55	-5					NO
T 72	76	FA23230-7		OP55360			NO
T 73	77	OP55593-BS		OP55593			NO Spk.
T 74	56	FA23276-4		OP55576			NO
T 75	57	-5			1X		NO
T 76	58	FA23271-6		OP55593			NO
T 77	59	-7					NO
T 78	60	-8					NO
T 79	61	-9					NO
T 80	62	-10					NO
T 81	63	-11					NO
T 82	64	~~FA23230-4~~					NO

MGA 04-05-15 FA23280-3

* For NELAC purposes, Method 625 includes analytes by SOP MS004 and 8270 includes analytes by SOP MS006

Manual Integration Rationale SOP QA029: **MP** Missed Peak, **OP** Overlapping Peak, **SP** Split Peak, **PDB** Poorly Defined Baseline, **BR** Baseline Ripple, **PII** Poor Instrument Integration

All strikeouts must be initialed and dated. If correction was not due to a transcription error, then list the reason for correction.

msbna06_t_log.xls NF rev. 08/11

Analyst's Signature: MGA

ACCUTEST LABORATORIES SE

DATE:	04-07-15
COLUMN TYPE:	7 65 MS
AMOUNT INJECTED:	5 ul
INSTRUMENT:	MSBNA06-T

MS BNA06-T ANALYSIS LOG

METHODS*:	3 L 790 FUMCAU
ACQ. METHOD:	ACQ-BAW
PROC. METHOD:	SW_W
CALIB. DATE:	04-01-15
RUN BATCH:	ST 811

ANALYST:	MGa
MECL2 LOT #:	083533
DFTPP RESPONSE:	1262318
EM VOLTAGE:	2165

DATA FILE	ALS #	SAMPLE ID	SAMPLE METHOD	OP BATCH	DF	MANUALLY INTEGRATED PEAKS RATIONALE, PEAK #	COMMENTS
T 017783	65	Fa23280-4	8270	OP55593	1x		—
T 84	66	-5					No
T 85	67	-6					No
T 86	68	Fa23291-3					—
T 87	69	Fa23305-1					Matrix Only ISFail.
T 88	1	dfttpp	dfttpp	55135	1x		Pass
T 89	2	CC805.5	8270	55136	1x 1000ug/ml		Pass
T 90	70	Fa23264-1		OP55593	1x		—
T 91	71	-2					No
T 92	72	-3					—
T 93	73	-4					Matrix (high interferences)
T 94	74	-5					No
T 95	75	-6					—
T 96	78	Fa23161-1		OP55590	10x 40+360		— Dil Qa ISFail.
T 97	79	-2			4x 10+390		No Dil Qa ISFail.
T 98	80	-3					—
T 99	81	-4					—
T 017800	82	-5			10x 40+360		—
T 01	83	Fa23142-1		OP55594	10x 5+495		—
T 02	84	-2			20x 20+480		Matrix 25x

* For NELAC purposes, Method 625 includes analytes by SOP MS004 and 8270 includes analytes by SOP MS006

Manual Integration Rationale SOP QA029: MP Missed Peak, OP Overlapping Peak, SP Split Peak, PDB Poorly Defined Baseline, BR Baseline Ripple, PII Poor Instrument Integration

All strikeouts must be initialed and dated. If correction was not due to a transcription error, then list the reason for correction.

msbna06_t_log.xls NF rev. 08/11

Analyst's Signature: MGa

ACCUTEST LABORATORIES SE

DATE:	09-07-15
COLUMN TYPE:	7 6 5 MS
AMOUNT INJECTED:	5 ul
INSTRUMENT:	MSBNA06-T

MS BNA06-T ANALYSIS LOG

METHODS*:	8270D SMPLH
ACQ. METHOD:	ACQ-PAH
PROC. METHOD:	SM-LV
CALIB. DATE:	09-01-15
RUN BATCH: ST	811

ANALYST:	MG
MECL2 LOT #:	082523
DFTPP RESPONSE:	367318
EM VOLTAGE:	2165

DATA FILE	ALS #	SAMPLE ID	SAMPLE METHOD	OP BATCH	DF	MANUALLY INTEGRATED PEAKS RATIONALE, PEAK #	COMMENTS
T 0172803	85	FA23262-9	8270	OP55576	10X 40+360		
T 04	86	-11			25X 20+480		
T 05	1	dFxop		SJ135	1X		PASS
T 06	2	CC809-5		SS136	5X 100+400		PASS
T 07	87	OP55607-BS		OP55607	1X		
T 08	88	-MB					NO
T 09	89	FA23254-4					NO
T 10	90	-5					
T 11	91	FA23291-4304-1					NO
T 12	92	OP55607-MS					NO
T 13	93	-MSD					
T 14		FA23314-2			5X 100+400	* 24 mp	Mn SOX (Mg. Sulfate)
T 15							
T 16							
T 17							
T 18							
T 19							
T 20							
T 21							
T 22							

* For NELAC purposes, Method 625 includes analytes by SOP MS004 and 8270 includes analytes by SOP MS006
Manual Integration Rationale SOP QA029: MP Missed Peak, OP Overlapping Peak, SP Split Peak, PDB Poorly Defined Baseline, BR Baseline Ripple, PII Poor Instrument Integration
All strikeouts must be initialed and dated. If correction was not due to a transcription error, then list the reason for correction.

msbna06_t_log.xls NF rev. 08/11

Analyst's Signature: [signature]

ACCUTEST LABORATORIES SE

DATE:	03/30/15
COLUMN TYPE:	TG-5 MS
AMOUNT INJECTED:	2 ul
INSTRUMENT:	MSBNA04-U

MS BNA04-U ANALYSIS LOG

METHODS*:	8270 D
ACQ. METHOD:	ACQ-BNA
PROC. METHOD:	8270 DA
CALIB. DATE:	03/30/15
RUN BATCH: SU	~~2284~~ 2285

ANALYST:	NF
MECL2 LOT #:	149480
DFTPP RESPONSE:	442781
EM VOLTAGE:	1729

DATA FILE	ALS #	SAMPLE ID	SAMPLE METHOD	OP BATCH	DF	MANUALLY INTEGRATED PEAKS RATIONALE, PEAK #	COMMENTS
U 49897	1	dftpp	~~8270~~	55131	1		IS - 7188 PASS
U 98	2	ic2285-5	8270	55142 55120	10+10 380		—
U 99	3	ic2285-10			20+20 380		—
U 49900	4	ic2285-25			50+50 380		—
U 01	5	ic2285-50			100+100 200		—
U 02	6	ic2285-60			120+120 160		—
U 03	7	ic2285-75			150+150 100		—
U 04	8	ic2285-100			200+200		—
U 05	9	icv2285-50		71085	2x		—
U 06	10	icv2285-50		7073C 6732 7141	20+20 350		—
U 07	11	icv2285-50,1methyl*		7075C	100x		— methylnaphtale
U 08	12	op55482-bs		55482	1		—
U 09	13	op55482-mb					NA
U 10	14	D68953-1					NA
U 11	15	D68953-2					NA
U 12	16	D68966-1					NA
U 13	17	D68966-2					NA
U 14	18	D68966-3					NA
U 15	19	FA23053-3					NA
U 16	20	op55478-bs		55478	1		—

* For NELAC purposes, Method 625 includes analytes by SOP MS004 and 8270 includes analytes by SOP MS006
Manual Integration Rationale SOP QA029: MP Missed Peak, OP Overlapping Peak, SP Split Peak, PDB Poorly Defined Baseline, BR Baseline Ripple, PII Poor Instrument Integration
All strikeouts must be initialed and dated. If correction was not due to a transcription error, then list the reason for correction.

msbna04_u_log.xls NF rev. 08/09

Analyst's Signature: [signature]

ACCUTEST LABORATORIES SE

DATE:	03/30/15
COLUMN TYPE:	TG5MS
AMOUNT INJECTED:	2 ul
INSTRUMENT:	MSBNA04-U

MS BNA04-U ANALYSIS LOG

METHODS*:	8270
ACQ. METHOD:	ACQ-BNA
PROC. METHOD:	8270A
CALIB. DATE:	03/20/15
RUN BATCH: SU	~~2284~~ 2285 03/30/15

ANALYST:	NJ
MECL2 LOT #:	149480
DFTPP RESPONSE:	44238
EM VOLTAGE:	1729

DATA FILE	ALS #	SAMPLE ID	SAMPLE METHOD	OP BATCH	DF	MANUALLY INTEGRATED PEAKS RATIONALE, PEAK #	COMMENTS
U 49917	21	op55478-mb	8270	55478	1		
U 18	22	FA23011-12					ND
U 19	23	op55478-ms					ND
U 20	24	op55478-msd					–
U 21	25	FA23011-37					–
U 22	26	FA22913-6r					–
U							–
U							
U							
U							
U							
U							
U							
U							
U							
U							
U							
U							
U							
U							

KL 03/31/15

* For NELAC purposes, Method 625 includes analytes by SOP MS004 and 8270 includes analytes by SOP MS006
Manual Integration Rationale SOP QA029: MP Missed Peak, OP Overlapping Peak, SP Split Peak, PDB Poorly Defined Baseline, BR Baseline Ripple, PII Poor Instrument Integration
All strikeouts must be initialed and dated. If correction was not due to a transcription error, then list the reason for correction.

msbna04_u_log.xls NF rev. 08/09

Analyst's Signature: NJ

ACCUTEST LABORATORIES SE

DATE:	04/01/15
COLUMN TYPE:	TG-5 MS
AMOUNT INJECTED:	2 ul
INSTRUMENT:	MSBNA04-U

MS BNA04-U ANALYSIS LOG

METHODS*:	8270
ACQ. METHOD:	ACQ-BNA
PROC. METHOD:	8270A
CALIB. DATE:	03/30/15
RUN BATCH: SU	2287

ANALYST:	NJ
MECL2 LOT #:	149480
DFTPP RESPONSE:	400503
EM VOLTAGE:	1126

DATA FILE	ALS #	SAMPLE ID	SAMPLE METHOD	OP BATCH	DF	MANUALLY INTEGRATED PEAKS RATIONALE, PEAK #	COMMENTS
U 49952	1	dftpp		55137	1		PASS
U 53	2	CC2285-50	8610	55120 55142	100 200		PASS
U 54	3	op55508-bs		55508	1		—
U 55	4	op55508-mb					— Bis.
U 56	5	FA23147-2					— Pr 2
U 57	6	op55508-MS					—
U 58	7	op55508-MSd					—
U 59	8	FA23147-6					—
U 60	9	FA23147-7					— Pr 5
U 61	10	FA23147-9					Pr 1, 2,
U 62	11	FA23147-13					—
U 63	12	FA23147-14					—
U 64	13	FA23147-15					— Pr 5
U 65	14	FA23147-16					—
U 66	15	FA23147 17					—
U 67	16	FA23147-18					— Pr 4
U 68	17	op55512-bs		55512	1		—
U 69	18	FA23104-1			10		—
U 70	19	FA23106-2			1		ND
U 71	20	op55512-MS			1		—

* For NELAC purposes, Method 625 includes analytes by SOP MS004 and 8270 includes analytes by SOP MS006
Manual Integration Rationale SOP QA029: MP Missed Peak, OP Overlapping Peak, SP Split Peak, PDB Poorly Defined Baseline, BR Baseline Ripple, PII Poor Instrument Integration
All strikeouts must be initialed and dated. If correction was not due to a transcription error, then list the reason for correction.

msbna04_u_log.xls NF rev. 08/09

Analyst's Signature:

Instrument Run Log SU2287 page 1 of 2
606 of 1004
ACCUTEST LABORATORIES FA23189
7.7.5 7

ACCUTEST LABORATORIES SE

DATE:	04/01/15
COLUMN TYPE:	TG5MS
AMOUNT INJECTED:	2 ul
INSTRUMENT: MSBNA04-U	

MS BNA04-U ANALYSIS LOG

METHODS*:	8270D
ACQ. METHOD:	ACQBNA
PROC. METHOD:	8270PAL
CALIB. DATE:	03/30/15
RUN BATCH: SU	2287

ANALYST:	NJ
MECL2 LOT #:	179480
DFTPP RESPONSE:	400507
EM VOLTAGE:	1729

DATA FILE	ALS #	SAMPLE ID	SAMPLE METHOD	OP BATCH	DF	MANUALLY INTEGRATED PEAKS RATIONALE, PEAK #	COMMENTS
U 49972	21	FA23147-2	8270	55508	2		—
U 73	22	FA23147-7			5		—
U 74	23	FA23147-9			10		Run 10x IS fail
U 75	24	FA23147-9			20		Run 20x if NJ IS fail
U 76	25	FA23147-15			5		—
U 77	26	FA23107-3		55498	1		no sp/2nd ND
U 78	27	FA21209-8		55514			ND
U 79	28	FA21209-9					Pinch 12-1,4,5 ND
U 80	29	ECC2285-50		55120 55142	(20.8) 50		—
U							
U							
U							
U							
U							
U							
U							
U							
U							
U							
U							
U							

04/02/15

* For NELAC purposes, Method 625 includes analytes by SOP MS004 and 8270 includes analytes by SOP MS006
Manual Integration Rationale SOP QA029: MP Missed Peak, OP Overlapping Peak, SP Split Peak, PDB Poorly Defined Baseline, BR Baseline Ripple, PII Poor Instrument Integration
All strikeouts must be initialed and dated. If correction was not due to a transcription error, then list the reason for correction.

msbna04_u_log.xls NF rev. 08/09

Analyst's Signature:

ACCUTEST LABORATORIES SE

DATE:	03/30/15
COLUMN TYPE:	7G-5MS
AMOUNT INJECTED:	1 ul
INSTRUMENT:	MSBNA05-X

MS BNA05-X ANALYSIS LOG

METHODS*:	8270D/625
ACQ. METHOD:	ACQ-BNA
PROC. METHOD:	8270D-0330
CALIB. DATE:	3/30/15
RUN BATCH:	SX 1826

ANALYST:	MAT
MECL2 LOT #:	149480
DFTPP RESPONSE:	22607082
EM VOLTAGE:	1600

DATA FILE	ALS #	SAMPLE ID	SAMPLE METHOD	OP BATCH	DF	MANUALLY INTEGRATED PEAKS RATIONALE, PEAK #	COMMENTS
X 039245	1	dftpp	8270	55131	1X		RR
X 46	1	dftpp					↓
X 47	2	IC1826-5		55142 55120	100+100 200		DNR
X 48	3	dftpp		55131	1X		PASS 0% degradation
X 49	4	IC1826-5		55142 55120	10+10	29=SP, 95=PII	Curve Pass
X 50	5	IC1826-10			20+20	29=SP	Level 60 Not used.
X 51	6	IC1826-25			50+50	29=SP	
X 52	7	ICC1826-50			100+100	29=SP	✓
X 53	8	IC1826-60			120+120	29, 36=SP	
X 54	9	IC1826-75			150+150	29=SP, 36=MP	
X 55	10	IC1826-100			200+200		↓
X 56	11	ICV1826-50		4new 7208E	2X		#2, #77↑, 74↓ pentachlorophenol → Hexachlorobenzene
X 57	12	ICV1826-50		7013C+6732 7142B	20+20+10		
X 58	13	ICV1826-50, 1 meth*		7075C	100X 5:500		Not use. *methylnaphthalene
X 59	14	op55454-bs		55454	1X	94=MP, 95=PII	✓
X 60	15	op55454-mb			1X		ND
X 61	16	FA22854-1			50X 10:500		ND Dil. due to m.
X 62	17	op55475-bs		55475	1X	98=PII, 94=MP, 95=PII	✓
X 63	18	op55475-mb			1X		ND
X 64	19	FA22959-1			50X 10:500		✓

* For NELAC purposes, Method 625 includes analytes by SOP MS004 and 8270 includes analytes by SOP MS006
Manual Integration Rationale SOP QA029: MP Missed Peak, OP Overlapping Peak, SP Split Peak, PDB Poorly Defined Baseline, BR Baseline Ripple, PII Poor Instrument Integration
All strikeouts must be initialed and dated. If correction was not due to a transcription error, then list the reason for correction.

Analyst's Signature: M.V

msbna05_x_log.xls NF rev. 08/09

ACCUTEST LABORATORIES FA23189

ACCUTEST LABORATORIES SE

DATE:	03/30/15
COLUMN TYPE:	TG-5MS
AMOUNT INJECTED:	1 ul
INSTRUMENT:	MSBNA05-X

MS BNA05-X ANALYSIS LOG

METHODS*:	8270D/625
ACQ. METHOD:	ACQ-BNA
PROC. METHOD:	8270D-0330
CALIB. DATE:	3/30/15
RUN BATCH: SX	1826

ANALYST:	MW
MECL2 LOT #:	149480
DFTPP RESPONSE:	2267082
EM VOLTAGE:	1600

	DATA FILE	ALS #	SAMPLE ID	SAMPLE METHOD	OP BATCH	DF	MANUALLY INTEGRATED PEAKS RATIONALE, PEAK #	COMMENTS
X	039265	20	FA22904-2L	8270	55483	~~10X~~ 100:500	5X	Approve 10X
X	66	21	FA22904-2L			10X 50:500	Comb.	✓
X	67	22	FA22970-4		55452	50X 10:500		✓
X	68	23	FA22970-3			100X 5:500		✓
X	69	24	FA22970-5			100X 5:500		✓
X								
X								
X								
X								
X								
X								
X								
X								
X								
X								
X								
X								
X								
X								
X								

MW 03/31/15

* For NELAC purposes, Method 625 includes analytes by SOP MS004 and 8270 includes analytes by SOP MS006
Manual Integration Rationale SOP QA029: MP Missed Peak, OP Overlapping Peak, SP Split Peak, PDB Poorly Defined Baseline, BR Baseline Ripple, PII Poor Instrument Integration
All strikeouts must be initialed and dated. If correction was not due to a transcription error, then list the reason for correction.

msbna05_x_log.xls NF rev. 08/09

Analyst's Signature: MW

ACCUTEST LABORATORIES SE

DATE:	3/31/15
COLUMN TYPE:	T6-5MS
AMOUNT INJECTED:	1 ul
INSTRUMENT:	MSBNA05-X

MS BNA05-X ANALYSIS LOG

METHODS*:	8270D/625
ACQ. METHOD:	ACQ-BNA
PROC. METHOD:	8270D-03302-M
CALIB. DATE:	03/30/15
RUN BATCH:	SX1827

ANALYST:	M-V
MECL2 LOT #:	149480
DFTPP RESPONSE:	2324015
EM VOLTAGE:	1600

I.S = 7188 C

DATA FILE	ALS #	SAMPLE ID	SAMPLE METHOD	OP BATCH	DF	MANUALLY INTEGRATED PEAKS RATIONALE, PEAK #	COMMENTS
X 039270	1	dftpp	DFTPP	S5131	1X		Pass
X 71	2	CC18226-50	8270	S5142 S5120	100+100 200		fail - RR
X 72	1	dftpp	DFTPP	S5131	1X		Pass
X 73	2	CC18226-50	8270	S5142 S5120	100+100 200		Pass Benzaldehyde +
X 74	3	op55512-bs		55512	1X		✓
X 75	4	↓ -mb		↓	1X		ND
X 76	5	FA23011-23		55452	4X		✓
X 77	6	FA23094-1		55512	1X		✓
X 78	7	-2					✓
X 79	8	-3					✓
X 80	9	-4					✓
X 81	10	FA23096-1					✓
X 82	11	-2					✓
X 83	12	-3				95=MP	✓
X 84	13	-4				95=MP	✓
X 85	14	-5					✓ + RR 4X
X 86	15	~~FA23014-1~~ FA23104-1 mw				95=MP	✓ + RR 10X for PCP
X 87	16	FA23104-1 -3			25X		✓
X 88	17	FA23106-1			1X		✓
X 89	18	-2					RR 1X

* For NELAC purposes, Method 625 includes analytes by SOP MS004 and 8270 includes analytes by SOP MS006
Manual Integration Rationale SOP QA029: MP Missed Peak, OP Overlapping Peak, SP Split Peak, PDB Poorly Defined Baseline, BR Baseline Ripple, PII Poor Instrument Integration
All strikeouts must be initialed and dated. If correction was not due to a transcription error, then list the reason for correction.

msbna05_x_log.xls NF rev. 08/09

Analyst's Signature: M.V

ACCUTEST LABORATORIES FA23189

ACCUTEST LABORATORIES SE

DATE:	3/31/15
COLUMN TYPE:	J6-5MS
AMOUNT INJECTED:	1 ul
INSTRUMENT:	MSBNA05-X

MS BNA05-X ANALYSIS LOG

METHODS*:	8270D/625
ACQ. METHOD:	ACQ-BNA
PROC. METHOD:	8270D-03300.m
CALIB. DATE:	3-30-15
RUN BATCH:	SX 1827

ANALYST:	MW
MECL2 LOT #:	149480
DFTPP RESPONSE:	23240015
EM VOLTAGE:	11600

	DATA FILE	ALS #	SAMPLE ID	SAMPLE METHOD	OP BATCH	DF	MANUALLY INTEGRATED PEAKS RATIONALE, PEAK #	COMMENTS
X	039290	19	FA23106-3	8270	55512	1X		✓
X	91	20	OP55512-MS					RR 1X
X	92	21	↓ -MSD				29=SP, 36=SP	✓
X	93	22	FA23189-1					✓
X	94	23	-3					✓
X	95	24	-5					✓
X	96	25	-7					✓
X	97	26	-9					✓ ~~#4 ↑ mw~~
X	98	27	-11					✓
X	99	2	ECC1826-50			100+100 / 200	29=SP	Poor 42,57,68↓
X								
X								
X								
X								
X								
X							mw	
X								
X								
X								
X								

* For NELAC purposes, Method 625 includes analytes by SOP MS004 and 8270 includes analytes by SOP MS006
Manual Integration Rationale SOP QA029: MP Missed Peak, OP Overlapping Peak, SP Split Peak, PDB Poorly Defined Baseline, BR Baseline Ripple, PII Poor Instrument Integration
All strikeouts must be initialed and dated. If correction was not due to a transcription error, then list the reason for correction.

msbna05_x_log.xls NF rev. 08/09

Analyst's Signature: M.W

ACCUTEST LABORATORIES SE

DATE:	04/01/15
COLUMN TYPE:	TG-5MS
AMOUNT INJECTED:	1 ul
INSTRUMENT:	MSBNA05-X

MS BNA05-X ANALYSIS LOG

METHODS*:	8270D/625
ACQ. METHOD:	ACQ-BNA
PROC. METHOD:	8270D-03302-M
CALIB. DATE:	03 30-15
RUN BATCH:	SX 1828

ANALYST:	M-Valle
MECL2 LOT #:	149480
DFTPP RESPONSE:	1240747
EM VOLTAGE:	1565

I.S = 7188C

DATA FILE	ALS #	SAMPLE ID	SAMPLE METHOD	OP BATCH	DF	MANUALLY INTEGRATED PEAKS RATIONALE, PEAK #	COMMENTS
X 039300	1	dftpp	DFTPP	S5131	1X		Pass
X 01	2	cc1826 — 50	8270	S5142 S5120	100+100 / 200		RR
X 02	1	dftpp	DFTPP	S5131	1X		Pass
X 03	2	cc1826 — 50	8270	S5142 S5120	100+100 / 200	29=SP	Pass
X 04	3	icv1826 — 50					Hexachlorobenzene — Pass
X 05	4	op55531-bs		55531	1X	30=SP	✓
X 06	5	↓ -mb					ND
X 07	6	FA23041-1					✓
X 08	7	↓ -2					✓
X 09	8	FA23189-13					✓
X 10	9	-14					✓
X 11	10	-16					✓
X 12	11	-18					✓
X 13	12	-20					✓
X 14	13	-22					✓
X 15	14	-24					✓
X 16	15	-25					✓
X 17	16	-27					✓
X 18	17	↓ -29					✓
X ↓ 19	18	op55531-ms	↓	↓	↓		✓

* For NELAC purposes, Method 625 includes analytes by SOP MS004 and 8270 includes analytes by SOP MS006
Manual Integration Rationale SOP QA029: MP Missed Peak, OP Overlapping Peak, SP Split Peak, PDB Poorly Defined Baseline, BR Baseline Ripple, PII Poor Instrument Integration
All strikeouts must be initialed and dated. If correction was not due to a transcription error, then list the reason for correction.

msbna05_x_log.xls NF rev. 08/09

Analyst's Signature: M-V.

ACCUTEST LABORATORIES SE

DATE:	04/01/15
COLUMN TYPE:	TG-5MS
AMOUNT INJECTED:	1 ul
INSTRUMENT:	MSBNA05-X

MS BNA05-X ANALYSIS LOG

METHODS*:	8270D
ACQ. METHOD:	~~8270P~~ mw ACQ-BNA
PROC. METHOD:	8270D-03302.M
CALIB. DATE:	03-30-15
RUN BATCH:	SX 1828

ANALYST:	MW
MECL2 LOT #:	149480
DFTPP RESPONSE:	1240747
EM VOLTAGE:	1565

DATA FILE	ALS #	SAMPLE ID	SAMPLE METHOD	OP BATCH	DF	MANUALLY INTEGRATED PEAKS RATIONALE, PEAK #	COMMENTS
X 039320	19	op55531-MSD	8270	55531	1X		✓
X 21	20	FA23189-31					✓
X 22	21	-33					✓
X 23	22	-35					✓
X 24	23	-37					✓
X 25	24	-39					✓
X 26	25	-41					✓
X 27	2	ecc1826 -50					Pass
X							
X							
X							
X							
X							
X							
X						mw 4/2/15	
X							
X							
X							
X							
X							

* For NELAC purposes, Method 625 includes analytes by SOP MS004 and 8270 includes analytes by SOP MS006
Manual Integration Rationale SOP QA029: MP Missed Peak, OP Overlapping Peak, SP Split Peak, PDB Poorly Defined Baseline, BR Baseline Ripple, PII Poor Instrument Integration
All strikeouts must be initialed and dated. If correction was not due to a transcription error, then list the reason for correction.

msbna05_x_log.xls NF rev. 08/09

Analyst's Signature: M. Valle

ACCUTEST LABORATORIES SE

SOLID SAMPLE PREP REPORT

Date/Time: 03/30/15 9:20
Started {mm/dd/yy 24:00}

Prep Method: 3550C 3580A or Method (circle)

Date/Time: 03/30/15 12:15
Finished {mm/dd/yy 24:00}

Batch#: OP 55512

Analytical Method: 8270

Ext. By: JC, BC

Conc. By: JMV 3-30-15

Vialed By: MV

Balance ID: ADVPROS

Sample ID	Bottle Number	Amount Extracted (g)	Surrogate Amount	Spike Amount	Final Volume (ml)	Comments
OP 55512 MB	X	30.0	0.5mL		1.0ml	
OP 55512 BS	X	30.0		0.5mL 0.5mL		
FA23094-1	7	29.9				
-2	7	30.1				
-3	7	29.7				
-4	7	30.0				
FA23096-1	7	30.5				
-2	6	29.7				
-3	7	30.1				
-4	6	30.3				
-5	6	30.1				
FA23104-1	1	29.7				
-3	1	30.2			10.0ml	Bad sample
FA23106-1	5	29.8			1.0ml	
-2	5	30.2				
-3	6	29.9				MS, MSD
FA23189-1	1	30.4				
-3	1	29.9				
-5	1	30.3				
-7	1	30.3				
-9	1	29.9				
-11	1	30.5				
FA23106-3 MS	6	30.2		0.5mL 0.5mL		
MSD	6	30.1				
DUP						

Comments:

Surr. ID: ES110 Conc: 200/100ppm Exp. Date: 03/11/16 Inj. By: JC Ver. By: BC

Spk. ID: 72081 Conc: 100ppm Exp. Date: 09/30/15 Inj. By: JC Ver. By: BC

ES101-B 100ppm 09/02/15 JC BC

Initial Bath Temp (Therm ID): IV #5

Observed Temp °C: 40c Corr. Temp °C: ✓

Exchange Bath/N-Evap Temp (Therm ID): ✓

Observed Temp °C: ✓ Corr. Temp °C: ✓

CH2CL2 Lot # 087533 Hexane Lot # ✓ Na2SO4 Lot# 1955

Acetonitrile Lot # ✓ Methanol Lot # ✓ Acetone Lot# 701419

Syringe Filter Lot# ✓ Filter Paper # 5966 Reagent # ✓

Copper Lot # ✓ If Sulfur Cleaning is performed in Extractions (3660B)

Relinquished By: [signature] Date: 03/30/15

Accepted By: [signature] Date: 03/30/15 01:20

NF rev. 09/14/12 extsolid 091412.xls

ACCUTEST LABORATORIES SE

SOLID SAMPLE PREP REPORT

Date/Time Started: 03/31/15 10:40 {mm/dd/yy 24:00}

Prep Method: 3550C 3580A or Method (circle)

Date/Time Finished: 03/31/15 13:55 {mm/dd/yy 24:00}

Batch#: OP55531

Analytical Method: 8270

Ext. By: JC, BC Conc. By: ACH Vialed By: MV Balance ID: ADVPRO8

Sample ID	Bottle Number	Amount Extracted (g)	Surrogate Amount	Spike Amount	Final Volume (ml)	Comments
OP MB	X	30.0	0.5mL		1.0mL	
OP BS	X	30.0		0.5mL 0.5mL		
FA23189 -13	1	30.0				
-14	1	30.4				
-16	1	30.0				
-18	1	30.0				
-20	1	30.4				MS, MSD
-22	1	29.8				
-24	1	29.6				
-25	1	29.7				
-27	1	30.0				
-29	1	29.8				
-31	1	29.7				
-33	1	30.1				
-35	1	29.6				
-37	1	30.0				
-39	1	30.0				
-41	1	30.0				
FA23041 -1	5	29.8				
-2	5	30.3				
FA23189 -20 MS	1	29.8	0.5mL	0.5mL 0.5mL	1.0mL	
MSD	1	30.3				
DUP						

Comments:

Surr. ID: ES110 Conc: 200/100ppm Exp. Date: 03/11/16 Inj. By: BC Ver. By JC

Spk. ID: 7208F Conc: 100ppm Exp. Date: 09/30/15 Inj. By: BC Ver. By JC

ES101-B 100ppm 09/02/15 BC JC

Initial Bath Temp (Therm ID): TUFS Exchange Bath/N-Evap Temp (Therm ID): ✓

Observed Temp °C: 40C Corr. Temp °C: ✓ Observed Temp °C: Corr. Temp °C: ✓

CH2CL2 Lot # 087533 Hexane Lot # ✓ Na2SO4 Lot# 1956

Acetonitrile Lot # ✓ Methanol Lot # ✓ Acetone Lot# ✓

Syringe Filter Lot# ✓ Filter Paper # 5966 Reagent # ✓

Copper Lot # ✓ If Sulfur Cleaning is performed in Extractions (3660B)

Relinquished By: Date: 03/31/15

Accepted By: Date: 033115

NF rev. 09/14/12 extsolid 091412.xls

7.8.2

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ACCUTEST LABORATORIES SE

LIQUID SAMPLE PREP REPORT

Date/Time: 03/31/15 15:40
Started {mm/dd/yy 24:00}

Date/Time: 03/31/15 17:40
Finished {mm/dd/yy 24:00}

Prep Method: 3510C 3580A or Method (circle)

Analytical Method: SIMLV1

Batch#: 55540 Ext. By: MJJ, JT, SP Conc. By: SP Vialed By: MJJ

Sample ID	Bottle Number	Amount Extracted (ml)	Initial pH	Adjusted pH	Surrogate Amount	Spike Amount	Final Volume (ml)	Comments
OP 55540 MB	X	250	6	<2,711	0.5mL		1.0mL	NaCl 140950
OP 55540 BS	X	250	↓	↓	↓	0.1mL	↓	↓
FA23161-1	5	260	↓	↓	↓	↓	↓	
-2	5	260	↓	↓	↓	↓	↓	
-3	5	240	↓	↓	↓	↓	↓	
-4	5	240	↓	↓	↓	↓	↓	
-5	5	240	↓	↓	↓	↓	↓	
FA23189-43	2	230	↓	↓	↓	↓	↓	
FA23188-25	5	230	↓	↓	↓	↓	↓	
FA23193-1	12	260	↓	↓	↓	↓	↓	
FA23193-4	11	250	↓	↓	↓	↓	↓	
FA23199-1	5	260	↓	↓	↓	↓	↓	
-2	5	260	↓	↓	↓	↓	↓	
-3	5	260	↓	↓	↓	↓	↓	
-4	5	260	↓	↓	↓	↓	↓	
-5	6	250	↓	↓	↓	↓	↓	
FA23202-1	9	240	↓	↓	↓	↓	↓	
FA23196-2	10	210	↓	↓	↓	↓	↓	
		03/31/15 MJJ						
FA23189-43 MS	1	120	6	<2,711	0.5mL	0.1mL	1.0mL	
-43 MSD	1	120	↓	↓	↓	↓	↓	
DUP								

Comments:

Surr. ID: E5111J Conc: 8/4 ppm Exp. Date: 09/12/15 Inj. By: YFS Ver. By: MJJ

Spk. ID: E5093-C Conc: 20/40 ppm Exp. Date: 08/18/15 Inj. By: YFS Ver. By: MJJ

Initial Bath Temp (Therm ID): TV#5
Observed Temp °C: 45 Corr. Temp °C: —

Exchange Bath/N-Evap Temp (Therm ID): —
Observed Temp °C: — Corr. Temp °C: —

CH2CL2 Lot # 087533 Hexane Lot # — Na2SO4 Lot# —

Acetonitrile Lot # — Methanol Lot # — Acetone Lot# —

Syringe Filter Lot# — H2SO4 Reagent # 410227 NaOH Reagent # GN16442

Copper Lot # — If Sulfur Cleaning is performed in Extractions (3660B)

Relinquished By: [signature] Date: 03/31/15

Accepted By: [signature] Date: 04/01/15 10:06

NF rev. 09/14/12 extwater 091412.xls

7.8.3

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Southeast ACCUTEST LABORATORIES

Metals Analysis

QC Data Summaries

Includes the following where applicable:

- Instrument Runlogs
- Initial and Continuing Calibration Blanks
- Initial and Continuing Calibration Checks
- High and Low Check Standards
- Interfering Element Check Standards
- Method Blank Summaries
- Matrix Spike and Duplicate Summaries
- Blank Spike and Lab Control Sample Summaries
- Serial Dilution Summaries
- IDL and Linear Range Summaries

Accutest Laboratories Instrument Runlog
Inorganics Analyses

Login Number: FA23189
Account: FPMRNYR - FPM Remediations
Project: HM-AZ PBR Holloman AFB; Alamogordo, NM

File ID: SB033115M1.ICP Date Analyzed: 03/31/15 Methods: SW846 6010C
Analyst: LM Run ID: MA12307
Parameters: Sb,As,Cu,Pb,Zn

Time	Sample Description	Dilution Factor	PS Recov	Comments
09:25	MA12307-STD1	1		STDA
09:28	MA12307-STD2	1		STDB
09:32	MA12307-STD3	1		STDC
09:35	MA12307-STD4	1		STDD
09:38	MA12307-HSTD1	1		
09:42	MA12307-ICV1	1		
09:50	MA12307-ICB1	1		
09:53	MA12307-CRIA1	1		
09:57	MA12307-ICSA1	1		
10:03	MA12307-ICSAB1	1		
10:11	MA12307-CCV1	1		
10:24	MA12307-CCB1	1		
10:29	FA22964-7	5		(sample used for QC only; not part of login FA23189)
10:33	MP28719-D1	5		
10:38	MP28719-S1	5		
10:42	MP28719-S2	5		
10:46	MP28719-PS1	5		
10:50	MP28719-SD1	25		
10:54	ZZZZZZ	2		
10:58	ZZZZZZ	4		
11:02	ZZZZZZ	4		
11:06	ZZZZZZ	2		
11:11	MA12307-CCV2	1		
11:15	MA12307-CCB2	1		
11:19	ZZZZZZ	2		
11:23	ZZZZZZ	2		
12:00	MA12307-CCV3	1		
12:04	MA12307-CCB3	1		
12:26	MA12307-CCV4	1		
12:35	MA12307-CCB4	1		
13:08	ZZZZZZ	5		
13:12	ZZZZZZ	5		
13:16	MP28731-MB1	1		

Accutest Laboratories Instrument Runlog
Inorganics Analyses

Login Number: FA23189
Account: FPMRNYR - FPM Remediations
Project: HM-AZ PBR Holloman AFB; Alamogordo, NM

File ID: SB033115M1.ICP Date Analyzed: 03/31/15 Methods: SW846 6010C
Analyst: LM Run ID: MA12307
Parameters: Sb,As,Cu,Pb,Zn

	Time	Sample Description	Dilution Factor	PS Recov	Comments
	13:21	MP28731-B1	1		
	13:24	FA23021-5	1		(sample used for QC only; not part of login FA23189)
	13:29	MP28731-D1	1		
	13:33	MP28731-SD1	5		
	13:37	MA12307-CCV5	1		
	13:41	MA12307-CCB5	1		
	13:45	MP28731-PS1	1		
	13:49	MP28731-S1	1		
	13:53	MP28731-S2	1		
	13:57	ZZZZZZ	1		
	14:01	ZZZZZZ	1		
	14:05	ZZZZZZ	1		
	14:09	ZZZZZZ	1		
	14:13	ZZZZZZ	1		
	14:18	ZZZZZZ	1		
	14:22	ZZZZZZ	1		
	14:26	MA12307-CCV6	1		
	14:30	MA12307-CCB6	1		
	14:34	ZZZZZZ	1		
	14:38	ZZZZZZ	1		
	14:42	ZZZZZZ	1		
	14:46	ZZZZZZ	1		
	14:51	ZZZZZZ	1		
	14:55	ZZZZZZ	1		
	14:59	FA23189-43	1		
---------->	Last reportable sample/prep for job FA23189				
	15:03	ZZZZZZ	1		
	15:07	ZZZZZZ	1		
	15:11	ZZZZZZ	1		
	15:15	MA12307-CCV7	1		
	15:19	MA12307-CCB7	1		
---------->	Last reportable CCB for job FA23189				

Refer to raw data for calibration curve and standards.

INTERNAL STANDARD SUMMARY

Login Number: FA23189
Account: FPMRNYR - FPM Remediations
Project: HM-AZ PBR Holloman AFB; Alamogordo, NM

File ID: SB033115M1.ICP Date Analyzed: 03/31/15 Methods: SW846 6010C
Analyst: LM Run ID: MA12307
Parameters: Sb,As,Cu,Pb,Zn

Time	Sample Description	Istd#1	Istd#2	Istd#3	Istd#4
09:25	MA12307-STD1	7811	50903	2835	3300
09:28	MA12307-STD2	7781	50427	2853	3054
09:32	MA12307-STD3	7442	47902	2798	2734
09:35	MA12307-STD4	7164	46183	2757	2524
09:38	MA12307-HSTD1	7180	46102	2726	2523
09:42	MA12307-ICV1	7453	47517	2767	2726
09:50	MA12307-ICB1	7791 R	50662 R	2820 R	3288 R
09:53	MA12307-CRIA1	7745	50537	2843	3152
09:57	MA12307-ICSA1	6884	42627	2688	2389
10:03	MA12307-ICSAB1	6835	43204	2697	2366
10:11	MA12307-CCV1	7414	47896	2758	2730
10:24	MA12307-CCB1	7784	50509	2766	3294
10:29	FA22964-7	7525	46584	2800	2697
10:33	MP28719-D1	7546	46823	2815	2700
10:38	MP28719-S1	7517	46413	2776	2683
10:42	MP28719-S2	7525	46143	2743	2682
10:46	MP28719-PS1	7545	46410	2764	2684
10:50	MP28719-SD1	7817	49266	2815	3002
10:54	ZZZZZZ	7069	44081	2640	2558
10:58	ZZZZZZ	7374	45705	2707	2627
11:02	ZZZZZZ	7642	47687	2712	2806
11:06	ZZZZZZ	7219	45064	2691	2473
11:11	MA12307-CCV2	7460	46868	2657	2717
11:15	MA12307-CCB2	7793	49618	2666	3257
11:19	ZZZZZZ	7290	44582	2687	2452
11:23	ZZZZZZ	7347	44905	2738	2429
12:00	MA12307-CCV3	7507	46212	2597	2707
12:04	MA12307-CCB3	7865	49068	2609	3254
12:26	MA12307-CCV4	7527	46344	2590	2719
12:35	MA12307-CCB4	7844	48584	2601	3250
13:08	ZZZZZZ	7756	46367	2603	2779
13:12	ZZZZZZ	7612	46430	2614	2719
13:16	MP28731-MB1	7862	49871	2645	3243

INTERNAL STANDARD SUMMARY

Login Number: FA23189
Account: FPMRNYR - FPM Remediations
Project: HM-AZ PBR Holloman AFB; Alamogordo, NM

File ID: SB033115M1.ICP Date Analyzed: 03/31/15 Methods: SW846 6010C
Analyst: LM Run ID: MA12307
Parameters: Sb,As,Cu,Pb,Zn

Time	Sample Description	Istd#1	Istd#2	Istd#3	Istd#4
13:21	MP28731-B1	7574	47357	2614	2848
13:24	FA23021-5	7715	49062	2692	3002
13:29	MP28731-D1	7714	49002	2704	3001
13:33	MP28731-SD1	7840	49344	2685	3179
13:37	MA12307-CCV5	7454	46304	2576	2701
13:41	MA12307-CCB5	7806	49034	2600	3239
13:45	MP28731-PS1	7700	48044	2681	2910
13:49	MP28731-S1	7629	47271	2672	2780
13:53	MP28731-S2	7643	47034	2634	2777
13:57	ZZZZZZ	7684	48196	2654	2979
14:01	ZZZZZZ	7524	46551	2607	2817
14:05	ZZZZZZ	7473	45554	2613	2788
14:09	ZZZZZZ	7585	46250	2562	2876
14:13	ZZZZZZ	7492	45814	2559	2788
14:18	ZZZZZZ	7764	47219	2631	2892
14:22	ZZZZZZ	7824	47818	2611	3007
14:26	MA12307-CCV6	7599	46356	2541	2728
14:30	MA12307-CCB6	7913	49221	2601	3261
14:34	ZZZZZZ	7783	48097	2630	2995
14:38	ZZZZZZ	7579	45952	2571	2813
14:42	ZZZZZZ	7518	45661	2553	2800
14:46	ZZZZZZ	7641	46761	2594	2875
14:51	ZZZZZZ	7503	45461	2558	2784
14:55	ZZZZZZ	7735	46987	2631	2889
14:59	FA23189-43	7958	48954	2587	3246
15:03	ZZZZZZ	7589	45802	2562	2796
15:07	ZZZZZZ	7747	46668	2571	2982
15:11	ZZZZZZ	7771	46606	2531	2995
15:15	MA12307-CCV7	7551	45346	2513	2702
15:19	MA12307-CCB7	7906	48489	2564	3237

R = Reference for ISTD limits. ! = Outside limits.

LEGEND:

Istd#	Parameter	Limits
Istd#1	Yttrium (2243)	60-125 %
Istd#2	Yttrium (3600)	60-125 %
Istd#3	Yttrium (3710)	60-125 %

INTERNAL STANDARD SUMMARY

Login Number: FA23189
Account: FPMRNYR - FPM Remediations
Project: HM-AZ PBR Holloman AFB; Alamogordo, NM

File ID: SB033115M1.ICP Date Analyzed: 03/31/15 Methods: SW846 6010C
Analyst: LM Run ID: MA12307
Parameters: Sb,As,Cu,Pb,Zn

Time	Sample Description	Istd#1	Istd#2	Istd#3	Istd#4
Istd#4	Indium		60-125 %		

BLANK RESULTS SUMMARY
Part 1 - Initial and Continuing Calibration Blanks

Login Number: FA23189
Account: FPMRNYR - FPM Remediations
Project: HM-AZ PBR Holloman AFB; Alamogordo, NM

File ID: SB033115M1.ICP Date Analyzed: 03/31/15 Methods: SW846 6010C
QC Limits: result < RL Run ID: MA12307 Units: ug/l

Time:			09:50		10:24		11:15		12:04	
Sample ID:			ICB1		CCB1		CCB2		CCB3	
Metal	RL	IDL	raw	final	raw	final	raw	final	raw	final
Aluminum	200	14	anr							
Antimony	6.0	1	1.0	<6.0	0.40	<6.0	1.4	<6.0	2.0	<6.0
Arsenic	10	1.3	-0.20	<10	-0.20	<10	0.0	<10	0.60	<10
Barium	200	1	anr							
Beryllium	4.0	.2	anr							
Cadmium	5.0	.2	anr							
Calcium	1000	50	anr							
Chromium	10	1	anr							
Cobalt	50	.2	anr							
Copper	25	1	0.0	<25	0.10	<25	0.20	<25	0.10	<25
Iron	300	17	anr							
Lead	5.0	1	0.10	<5.0	0.60	<5.0	0.40	<5.0	0.60	<5.0
Magnesium	5000	35	anr							
Manganese	15	.5	anr							
Molybdenum	50	.3								
Nickel	40	.4	anr							
Potassium	10000	200	anr							
Selenium	10	2.4	anr							
Silver	10	.7	anr							
Sodium	10000	500	anr							
Strontium	10	.5								
Thallium	10	1.1	anr							
Tin	50	.9								
Titanium	10	.5								
Vanadium	50	.5	anr							
Zinc	20	3	-0.10	<20	0.0	<20	0.10	<20	0.10	<20

(*) Outside of QC limits
(anr) Analyte not requested

BLANK RESULTS SUMMARY
Part 1 - Initial and Continuing Calibration Blanks

Login Number: FA23189
Account: FPMRNYR - FPM Remediations
Project: HM-AZ PBR Holloman AFB; Alamogordo, NM

File ID: SB033115M1.ICP Date Analyzed: 03/31/15 Methods: SW846 6010C
QC Limits: result < RL Run ID: MA12307 Units: ug/l

Time:			12:35		13:41		14:30		15:19	
Sample ID:			CCB4		CCB5		CCB6		CCB7	
Metal	RL	IDL	raw	final	raw	final	raw	final	raw	final
Aluminum	200	14	anr							
Antimony	6.0	1	0.70	<6.0	1.5	<6.0	0.70	<6.0	0.80	<6.0
Arsenic	10	1.3	0.70	<10	1.1	<10	0.50	<10	0.40	<10
Barium	200	1	anr							
Beryllium	4.0	.2	anr							
Cadmium	5.0	.2	anr							
Calcium	1000	50	anr							
Chromium	10	1	anr							
Cobalt	50	.2	anr							
Copper	25	1	0.60	<25	0.60	<25	0.30	<25	0.30	<25
Iron	300	17	anr							
Lead	5.0	1	0.10	<5.0	-0.50	<5.0	-0.50	<5.0	-0.20	<5.0
Magnesium	5000	35	anr							
Manganese	15	.5	anr							
Molybdenum	50	.3								
Nickel	40	.4	anr							
Potassium	10000	200	anr							
Selenium	10	2.4	anr							
Silver	10	.7	anr							
Sodium	10000	500	anr							
Strontium	10	.5								
Thallium	10	1.1	anr							
Tin	50	.9								
Titanium	10	.5								
Vanadium	50	.5	anr							
Zinc	20	3	0.40	<20	0.30	<20	0.30	<20	0.10	<20

(*) Outside of QC limits
(anr) Analyte not requested

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: FA23189
Account: FPMRNYR - FPM Remediations
Project: HM-AZ PBR Holloman AFB; Alamogordo, NM

File ID: SB033115M1.ICP Date Analyzed: 03/31/15 Methods: SW846 6010C
QC Limits: 90 to 110 % Recovery Run ID: MA12307 Units: ug/l

Time:		09:42			10:11			11:11	
Sample ID:	ICV	ICV1		CCV	CCV1		CCV	CCV2	
Metal	True	Results	% Rec	True	Results	% Rec	True	Results	% Rec
Aluminum	anr								
Antimony	2000	2010	100.5	2000	2030	101.5	2000	2020	101.0
Arsenic	2000	2000	100.0	2000	2030	101.5	2000	2010	100.5
Barium	anr								
Beryllium	anr								
Cadmium	anr								
Calcium	anr								
Chromium	anr								
Cobalt	anr								
Copper	2000	2020	101.0	2000	2040	102.0	2000	2070	103.5
Iron	anr								
Lead	2000	1990	99.5	2000	1990	99.5	2000	2020	101.0
Magnesium	anr								
Manganese	anr								
Molybdenum									
Nickel	anr								
Potassium	anr								
Selenium	anr								
Silver	anr								
Sodium	anr								
Strontium									
Thallium	anr								
Tin									
Titanium									
Vanadium	anr								
Zinc	2000	2030	101.5	2000	2030	101.5	2000	2040	102.0

(*) Outside of QC limits
(anr) Analyte not requested

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: FA23189
Account: FPMRNYR - FPM Remediations
Project: HM-AZ PBR Holloman AFB; Alamogordo, NM

File ID: SB033115M1.ICP Date Analyzed: 03/31/15 Methods: SW846 6010C
QC Limits: 90 to 110 % Recovery Run ID: MA12307 Units: ug/l

Time:		12:00			12:26			13:37	
Sample ID:	CCV	CCV3		CCV	CCV4		CCV	CCV5	
Metal	True	Results	% Rec	True	Results	% Rec	True	Results	% Rec
Aluminum	anr								
Antimony	2000	2020	101.0	2000	1980	99.0	2000	1980	99.0
Arsenic	2000	1990	99.5	2000	1980	99.0	2000	1990	99.5
Barium	anr								
Beryllium	anr								
Cadmium	anr								
Calcium	anr								
Chromium	anr								
Cobalt	anr								
Copper	2000	2100	105.0	2000	1980	99.0	2000	1970	98.5
Iron	anr								
Lead	2000	2050	102.5	2000	1960	98.0	2000	1960	98.0
Magnesium	anr								
Manganese	anr								
Molybdenum									
Nickel	anr								
Potassium	anr								
Selenium	anr								
Silver	anr								
Sodium	anr								
Strontium									
Thallium	anr								
Tin									
Titanium									
Vanadium	anr								
Zinc	2000	2050	102.5	2000	1990	99.5	2000	1990	99.5

(*) Outside of QC limits
(anr) Analyte not requested

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: FA23189
Account: FPMRNYR - FPM Remediations
Project: HM-AZ PBR Holloman AFB; Alamogordo, NM

File ID: SB033115M1.ICP Date Analyzed: 03/31/15 Methods: SW846 6010C
QC Limits: 90 to 110 % Recovery Run ID: MA12307 Units: ug/l

Time:		14:26			15:15	
Sample ID:	CCV	CCV6		CCV	CCV7	
Metal	True	Results	% Rec	True	Results	% Rec
Aluminum	anr					
Antimony	2000	1970	98.5	2000	1970	98.5
Arsenic	2000	1950	97.5	2000	1950	97.5
Barium	anr					
Beryllium	anr					
Cadmium	anr					
Calcium	anr					
Chromium	anr					
Cobalt	anr					
Copper	2000	2000	100.0	2000	2030	101.5
Iron	anr					
Lead	2000	1970	98.5	2000	1990	99.5
Magnesium	anr					
Manganese	anr					
Molybdenum						
Nickel	anr					
Potassium	anr					
Selenium	anr					
Silver	anr					
Sodium	anr					
Strontium						
Thallium	anr					
Tin						
Titanium						
Vanadium	anr					
Zinc	2000	2000	100.0	2000	2010	100.5

(*) Outside of QC limits
(anr) Analyte not requested

HIGH STANDARD CHECK SUMMARY

Login Number: FA23189
Account: FPMRNYR - FPM Remediations
Project: HM-AZ PBR Holloman AFB; Alamogordo, NM

File ID: SB033115M1.ICP Date Analyzed: 03/31/15 Methods: SW846 6010C
QC Limits: 95 to 105 % Recovery Run ID: MA12307 Units: ug/l

Time:		09:38	
Sample ID:	HSTD	HSTD1	
Metal	True	Results	% Rec
Aluminum	anr		
Antimony	4000	4000	100.0
Arsenic	4000	4000	100.0
Barium	anr		
Beryllium	anr		
Cadmium	anr		
Calcium	anr		
Chromium	anr		
Cobalt	anr		
Copper	4000	4000	100.0
Iron	anr		
Lead	4000	4050	101.3
Magnesium	anr		
Manganese	anr		
Molybdenum			
Nickel	anr		
Potassium	anr		
Selenium	anr		
Silver	anr		
Sodium	anr		
Strontium			
Thallium	anr		
Tin			
Titanium			
Vanadium	anr		
Zinc	4000	3980	99.5

(*) Outside of QC limits
(anr) Analyte not requested

LOW CALIBRATION CHECK STANDARDS SUMMARY

Login Number: FA23189
Account: FPMRNYR - FPM Remediations
Project: HM-AZ PBR Holloman AFB; Alamogordo, NM

File ID: SB033115M1.ICP Date Analyzed: 03/31/15 Methods: SW846 6010C
QC Limits: CRI 70-130% CRIA 70-130% Run ID: MA12307 Units: ug/l

Time:			09:53	
Sample ID:	CRI	CRIA	CRIA1	
Metal	True	True	Results	% Rec
Aluminum	400	200	anr	
Antimony	10	5.0	5.5	110.0
Arsenic	20	10	8.1	81.0
Barium	400	200	anr	
Beryllium	10	5.0	anr	
Cadmium	10	5.0	anr	
Calcium	2000	1000	anr	
Chromium	20	10	anr	
Cobalt	100	50	anr	
Copper	50	25	21.8	87.2
Iron	600	300	anr	
Lead	10	5.0	4.6	92.0
Magnesium	10000	5000	anr	
Manganese	30	15	anr	
Molybdenum	100	50		
Nickel	80	40	anr	
Potassium	20000	10000	anr	
Selenium	20	10	anr	
Silver	20	10	anr	
Sodium	20000	10000	anr	
Strontium	20	10		
Thallium	20	10	anr	
Tin	100	50		
Titanium	20	10		
Vanadium	100	50	anr	
Zinc	40	20	18.5	92.5

(*) Outside of QC limits
(anr) Analyte not requested

INTERFERING ELEMENT CHECK STANDARDS SUMMARY
Part 1 - ICSA and ICSAB Standards

Login Number: FA23189
Account: FPMRNYR - FPM Remediations
Project: HM-AZ PBR Holloman AFB; Alamogordo, NM

File ID: SB033115M1.ICP Date Analyzed: 03/31/15 Methods: SW846 6010C
QC Limits: 80 to 120 % Recovery Run ID: MA12307 Units: ug/l

Time:			09:57		10:03	
Sample ID:	ICSA	ICSAB	ICSA1		ICSAB1	
Metal	True	True	Results	% Rec	Results	% Rec
Aluminum	500000	500000	503000	100.6	496000	99.2
Antimony		1000	-0.40		1050	105.0
Arsenic		1000	0.0		1050	105.0
Barium		500	0.40		512	102.4
Beryllium		500	0.30		509	101.8
Cadmium		1000	0.0		920	92.0
Calcium	500000	500000	474000	94.8	472000	94.4
Chromium		500	0.40		484	96.8
Cobalt		500	-0.50		472	94.4
Copper		500	0.0		535	107.0
Iron	200000	200000	185000	92.5	186000	93.0
Lead		1000	-0.40		951	95.1
Magnesium	500000	500000	487000	97.4	484000	96.8
Manganese		500	0.10		495	99.0
Molybdenum		1000	0.50		945	94.5
Nickel		1000	0.0		950	95.0
Potassium			243		112	
Selenium		1000	0.0		1020	102.0
Silver		1000	0.30		976	97.6
Sodium			210		180	
Strontium		1000	0.10		1010	101.0
Thallium		1000	1.6		947	94.7
Tin		1000	-0.10		960	96.0
Titanium		1000	1.0		1010	101.0
Vanadium		500	0.90		484	96.8
Zinc		1000	-1.8		948	94.8

(*) Outside of QC limits
(anr) Analyte not requested

Accutest Laboratories Instrument Runlog
Inorganics Analyses

Login Number: FA23189
Account: FPMRNYR - FPM Remediations
Project: HM-AZ PBR Holloman AFB; Alamogordo, NM

File ID: SB040115M1.ICP Date Analyzed: 04/01/15 Methods: SW846 6010C
Analyst: LM Run ID: MA12310
Parameters: Sb,As,Cu,Pb,Zn

Time	Sample Description	Dilution Factor	PS Recov	Comments
07:10	MA12310-STD1	1		STDA
07:13	MA12310-STD2	1		STDB
07:16	MA12310-STD3	1		STDC
07:20	MA12310-STD4	1		STDD
07:24	MA12310-HSTD1	1		
07:27	MA12310-ICV1	1		
07:34	MA12310-ICB1	1		
07:47	MA12310-CRIA1	1		
07:51	MA12310-ICSA1	1		
07:56	MA12310-ICSAB1	1		
07:59	MA12310-CCV1	1		
08:03	MA12310-CCB1	1		
08:07	ZZZZZZ	1		
08:11	ZZZZZZ	1		
08:15	MP28734-MB1	1		
08:19	MP28734-B1	1		
08:23	FA23189-20	1		
08:27	MP28734-D1	1		
08:32	MP28734-SD1	5		
08:36	MP28734-PS1	1		
08:40	MP28734-S1	1		
08:44	MP28734-S2	1		
08:49	MA12310-CCV2	1		
08:53	MA12310-CCB2	1		
08:57	FA23189-1	1		
09:01	FA23189-3	1		
09:05	FA23189-5	1		
09:10	FA23189-7	1		
09:14	FA23189-9	1		
09:18	FA23189-11	1		
09:23	FA23189-13	1		
09:27	FA23189-14	1		
09:31	FA23189-16	1		

Accutest Laboratories Instrument Runlog
Inorganics Analyses

Login Number: FA23189
Account: FPMRNYR - FPM Remediations
Project: HM-AZ PBR Holloman AFB; Alamogordo, NM

File ID: SB040115M1.ICP Date Analyzed: 04/01/15 Methods: SW846 6010C
Analyst: LM Run ID: MA12310
Parameters: Sb,As,Cu,Pb,Zn

Time	Sample Description	Dilution Factor	PS Recov	Comments
09:35	FA23189-18	1		
09:40	MA12310-CCV3	1		
09:44	MA12310-CCB3	1		
10:06	MA12310-CCV4	1		
10:11	MA12310-CCB4	1		
10:15	FA23189-22	1		
10:19	FA23189-24	1		
10:23	FA23189-25	1		
10:28	FA23189-27	1		
10:32	FA23189-29	1		
10:36	FA23189-31	1		
10:41	FA23189-33	1		
10:45	FA23189-35	1		
10:49	FA23189-37	1		
---------->	Last reportable sample/prep for job FA23189			
10:53	MP28735-MB1	1		
10:58	MA12310-CCV5	1		
11:02	MA12310-CCB5	1		
11:06	MP28735-B1	1		
11:10	FA23026-1F	1		(sample used for QC only; not part of login FA23189)
11:14	MP28735-D1	1		
11:18	MP28735-SD1	5		
11:22	MP28735-PS1	1		
11:26	MP28735-S1	1		
11:30	MP28735-S2	1		
11:35	ZZZZZZ	1		
11:39	ZZZZZZ	1		
11:43	ZZZZZZ	1		
11:47	MA12310-CCV6	1		
11:51	MA12310-CCB6	1		
11:55	ZZZZZZ	1		
12:06	ZZZZZZ	1		
12:10	ZZZZZZ	1		
12:14	ZZZZZZ	1		

Accutest Laboratories Instrument Runlog
Inorganics Analyses

Login Number: FA23189
Account: FPMRNYR - FPM Remediations
Project: HM-AZ PBR Holloman AFB; Alamogordo, NM

File ID: SB040115M1.ICP Date Analyzed: 04/01/15 Methods: SW846 6010C
Analyst: LM Run ID: MA12310
Parameters: Sb,As,Cu,Pb,Zn

Time	Sample Description	Dilution Factor	PS Recov	Comments
12:18	ZZZZZZ	1		
12:22	ZZZZZZ	1		
12:26	ZZZZZZ	1		
12:31	ZZZZZZ	1		
12:35	ZZZZZZ	1		
12:39	MA12310-CCV7	1		
12:43	MA12310-CCB7	1		
12:47	ZZZZZZ	1		
12:52	ZZZZZZ	1		
12:56	ZZZZZZ	1		
13:00	ZZZZZZ	1		
13:04	ZZZZZZ	1		
13:09	ZZZZZZ	1		
13:13	ZZZZZZ	1		
13:17	MP28736-MB1	1		
13:21	MP28736-B1	1		
13:25	FA23069-10	1		(sample used for QC only; not part of login FA23189)
13:29	MA12310-CCV8	1		
13:33	MA12310-CCB8	1		
13:37	MP28736-D1	1		
13:42	MP28736-SD1	5		
13:46	MP28736-PS1	1		
13:50	MP28736-S1	1		
13:54	MP28736-S2	1		
13:58	ZZZZZZ	1		
14:02	ZZZZZZ	1		
14:06	ZZZZZZ	1		
14:10	ZZZZZZ	1		
14:14	ZZZZZZ	1		
14:19	MA12310-CCV9	1		
14:23	MA12310-CCB9	1		
14:49	MA12310-CCV10	1		
14:56	MA12310-CCB10	1		

Accutest Laboratories Instrument Runlog
Inorganics Analyses

Login Number: FA23189
Account: FPMRNYR - FPM Remediations
Project: HM-AZ PBR Holloman AFB; Alamogordo, NM

File ID: SB040115M1.ICP Date Analyzed: 04/01/15 Methods: SW846 6010C
Analyst: LM Run ID: MA12310
Parameters: Sb,As,Cu,Pb,Zn

Time	Sample Description	Dilution Factor	PS Recov	Comments
15:00	ZZZZZZ	1		
15:04	ZZZZZZ	1		
15:08	ZZZZZZ	1		
15:12	ZZZZZZ	1		
15:16	ZZZZZZ	1		
15:20	ZZZZZZ	1		
15:25	ZZZZZZ	1		
15:29	ZZZZZZ	1		
15:33	ZZZZZZ	1		
15:37	ZZZZZZ	1		
15:41	MA12310-CCV11	1		
15:45	MA12310-CCB11	1		
15:49	ZZZZZZ	1		
15:54	ZZZZZZ	1		
15:58	ZZZZZZ	1		
16:02	ZZZZZZ	1		
16:06	MP28738-MB1	1		
16:10	MP28738-B1	1		
16:14	FA23139-1	1		(sample used for QC only; not part of login FA23189)
16:18	MP28738-D1	1		
16:23	MP28738-SD1	5		
16:27	MP28738-PS1	1		
16:31	MA12310-CCV12	1		
16:35	MA12310-CCB12	1		
16:39	MP28738-S1	1		
16:43	MP28738-S2	1		
16:47	ZZZZZZ	1		
16:52	ZZZZZZ	1		
16:56	ZZZZZZ	1		
17:00	ZZZZZZ	1		
17:04	ZZZZZZ	1		
17:08	ZZZZZZ	1		
17:12	ZZZZZZ	1		

Accutest Laboratories Instrument Runlog
Inorganics Analyses

Login Number: FA23189
Account: FPMRNYR - FPM Remediations
Project: HM-AZ PBR Holloman AFB; Alamogordo, NM

File ID: SB040115M1.ICP Date Analyzed: 04/01/15 Methods: SW846 6010C
Analyst: LM Run ID: MA12310
Parameters: Sb,As,Cu,Pb,Zn

Time	Sample Description	Dilution Factor	PS Recov	Comments
17:16	ZZZZZZ	1		
17:20	MA12310-CCV13	1		
17:24	MA12310-CCB13	1		
17:29	ZZZZZZ	1		
17:33	ZZZZZZ	1		
17:37	ZZZZZZ	1		
17:41	ZZZZZZ	1		
17:45	ZZZZZZ	1		
17:50	ZZZZZZ	1		
17:54	ZZZZZZ	1		
17:58	ZZZZZZ	1		
18:02	ZZZZZZ	1		
18:06	ZZZZZZ	1		
18:10	MA12310-CCV14	1		
18:14	MA12310-CCB14	1		
18:19	ZZZZZZ	1		
18:23	MA12310-CRIA2	1		
18:27	MA12310-ICSA2	1		
18:31	MA12310-ICSAB2	1		
18:35	MA12310-CCV15	1		
18:39	MA12310-CCB15	1		

----------> Last reportable CCB for job FA23189
Refer to raw data for calibration curve and standards.

INTERNAL STANDARD SUMMARY

Login Number: FA23189
Account: FPMRNYR - FPM Remediations
Project: HM-AZ PBR Holloman AFB; Alamogordo, NM

File ID: SB040115M1.ICP Date Analyzed: 04/01/15 Methods: SW846 6010C
Analyst: LM Run ID: MA12310
Parameters: Sb,As,Cu,Pb,Zn

Time	Sample Description	Istd#1	Istd#2	Istd#3	Istd#4
07:10	MA12310-STD1	8704	47979	2469	3174
07:13	MA12310-STD2	8540	47325	2505	2916
07:16	MA12310-STD3	8168	45071	2438	2619
07:20	MA12310-STD4	7885	43856	2394	2433
07:24	MA12310-HSTD1	7865	44053	2421	2426
07:27	MA12310-ICV1	8143	44871	2455	2616
07:34	MA12310-ICB1	8586 R	47114 R	2450 R	3129 R
07:47	MA12310-CRIA1	8355	46029	2421	2940
07:51	MA12310-ICSA1	7417	39592	2297	2264
07:56	MA12310-ICSAB1	7442	40300	2303	2256
07:59	MA12310-CCV1	8064	44823	2423	2600
08:03	MA12310-CCB1	8425	46944	2379	3104
08:07	ZZZZZZ	8294	46241	2393	2917
08:11	ZZZZZZ	8472	47607	2415	3114
08:15	MP28734-MB1	8490	47932	2482	3114
08:19	MP28734-B1	8224	45243	2394	2740
08:23	FA23189-20	7321	40376	2475	1933
08:27	MP28734-D1	7295	40547	2508	1881
08:32	MP28734-SD1	7664	42151	2340	2379
08:36	MP28734-PS1	7150	39784	2386	1886
08:40	MP28734-S1	7241	40184	2328	1920
08:44	MP28734-S2	7112	39542	2264	1945
08:49	MA12310-CCV2	8067	44754	2270	2604
08:53	MA12310-CCB2	8425	46833	2275	3099
08:57	FA23189-1	6876	37833	2170	1929
09:01	FA23189-3	6939	38453	2183	1940
09:05	FA23189-5	7004	38855	2240	1913
09:10	FA23189-7	8339	45144	2560	1892
09:14	FA23189-9	7170	39432	2205	1922
09:18	FA23189-11	7323	40358	2261	1938
09:23	FA23189-13	6874	37887	2136	1932
09:27	FA23189-14	6801	37667	2114	1950
09:31	FA23189-16	6946	38843	2182	1928

INTERNAL STANDARD SUMMARY

Login Number: FA23189
Account: FPMRNYR - FPM Remediations
Project: HM-AZ PBR Holloman AFB; Alamogordo, NM

File ID: SB040115M1.ICP Date Analyzed: 04/01/15 Methods: SW846 6010C
Analyst: LM Run ID: MA12310
Parameters: Sb,As,Cu,Pb,Zn

Time	Sample Description	Istd#1	Istd#2	Istd#3	Istd#4
09:35	FA23189-18	6840	38697	2157	1955
09:40	MA12310-CCV3	8118	45683	2258	2637
09:44	MA12310-CCB3	8523	47638	2235	3156
10:06	MA12310-CCV4	7879	43383	2085	2546
10:11	MA12310-CCB4	8354	46374	2119	3087
10:15	FA23189-22	7172	39871	2225	1921
10:19	FA23189-24	8604	46559	2582	1925
10:23	FA23189-25	9621	51460	2757	2079
10:28	FA23189-27	8264	45136	2479	1890
10:32	FA23189-29	6882	38535	2056	1944
10:36	FA23189-31	6592	36960	2031	1887
10:41	FA23189-33	7228	40224	2201	1964
10:45	FA23189-35	6620	36559	2092	1793 !
10:49	FA23189-37	6880	39313	2154	1943
10:53	MP28735-MB1	8517	48891	2213	3143
10:58	MA12310-CCV5	8099	45658	2180	2628
11:02	MA12310-CCB5	8535	48159	2186	3165
11:06	MP28735-B1	8092	45485	2123	2718
11:10	FA23026-1F	7843	43472	2144	2596
11:14	MP28735-D1	7863	43059	2106	2600
11:18	MP28735-SD1	8190	45171	2118	2850
11:22	MP28735-PS1	7785	42771	2079	2559
11:26	MP28735-S1	7639	42011	2014	2465
11:30	MP28735-S2	7626	41311	2018	2456
11:35	ZZZZZZ	7651	41866	1996	2562
11:39	ZZZZZZ	7613	41663	2001	2544
11:43	ZZZZZZ	7547	41070	1973	2524
11:47	MA12310-CCV6	7802	42892	2009	2556
11:51	MA12310-CCB6	8181	45485	2031	3062
11:55	ZZZZZZ	8091	44959	2023	3017
12:06	ZZZZZZ	7621	41720	2006	2630
12:10	ZZZZZZ	8188	45112	2075	2954
12:14	ZZZZZZ	8379	45405	2111	2903

INTERNAL STANDARD SUMMARY

Login Number: FA23189
Account: FPMRNYR - FPM Remediations
Project: HM-AZ PBR Holloman AFB; Alamogordo, NM

File ID: SB040115M1.ICP Date Analyzed: 04/01/15 Methods: SW846 6010C
Analyst: LM Run ID: MA12310
Parameters: Sb,As,Cu,Pb,Zn

Time	Sample Description	Istd#1	Istd#2	Istd#3	Istd#4
12:18	ZZZZZZ	8672	47234	2192	2857
12:22	ZZZZZZ	8554	47137	2162	3007
12:26	ZZZZZZ	8154	45367	2046	2956
12:31	ZZZZZZ	13185 !	73281 !	3372 !	2929
12:35	ZZZZZZ	9855	53852	2498	2830
12:39	MA12310-CCV7	7726	42064	1977	2519
12:43	MA12310-CCB7	8172	45067	2021	3044
12:47	ZZZZZZ	8706	47238	2219	2881
12:52	ZZZZZZ	8345	46309	2117	2966
12:56	ZZZZZZ	9236	50801	2345	2872
13:00	ZZZZZZ	8257	45406	2071	2946
13:04	ZZZZZZ	8796	48600	2242	2946
13:09	ZZZZZZ	8164	45678	2063	2967
13:13	ZZZZZZ	7824	42733	2007	2665
13:17	MP28736-MB1	8079	44894	1993	2998
13:21	MP28736-B1	7798	42802	2001	2643
13:25	FA23069-10	8117	45199	2027	2952
13:29	MA12310-CCV8	7670	42229	2010	2509
13:33	MA12310-CCB8	8049	44269	2023	3008
13:37	MP28736-D1	8063	44459	2014	2941
13:42	MP28736-SD1	8087	44820	2034	3003
13:46	MP28736-PS1	8003	44569	2053	2819
13:50	MP28736-S1	7811	43081	2022	2631
13:54	MP28736-S2	7796	42838	2025	2628
13:58	ZZZZZZ	8174	45739	2067	2977
14:02	ZZZZZZ	8136	45552	2064	2958
14:06	ZZZZZZ	8155	45537	2063	2984
14:10	ZZZZZZ	8207	45764	2057	3004
14:14	ZZZZZZ	8130	45272	2068	2894
14:19	MA12310-CCV9	7674	42460	2049	2508
14:23	MA12310-CCB9	8046	44643	2013	3008
14:49	MA12310-CCV10	7773	43143	2072	2547
14:56	MA12310-CCB10	8161	45661	2087	3051

INTERNAL STANDARD SUMMARY

Login Number: FA23189
Account: FPMRNYR - FPM Remediations
Project: HM-AZ PBR Holloman AFB; Alamogordo, NM

File ID: SB040115M1.ICP Date Analyzed: 04/01/15 Methods: SW846 6010C
Analyst: LM Run ID: MA12310
Parameters: Sb,As,Cu,Pb,Zn

Time	Sample Description	Istd#1	Istd#2	Istd#3	Istd#4
15:00	ZZZZZZ	8235	46131	2088	2981
15:04	ZZZZZZ	8126	45281	2076	2968
15:08	ZZZZZZ	8118	45499	2051	3027
15:12	ZZZZZZ	7990	44614	2048	2841
15:16	ZZZZZZ	8037	45281	2080	2921
15:20	ZZZZZZ	8175	45588	2081	2995
15:25	ZZZZZZ	8110	45064	2055	2958
15:29	ZZZZZZ	8099	45513	2066	2967
15:33	ZZZZZZ	8157	45956	2071	2999
15:37	ZZZZZZ	8121	45380	2083	2905
15:41	MA12310-CCV11	7709	42942	2042	2525
15:45	MA12310-CCB11	8021	44878	2067	2989
15:49	ZZZZZZ	7888	44280	2059	2803
15:54	ZZZZZZ	8039	45080	2070	2908
15:58	ZZZZZZ	8215	45880	2123	2921
16:02	ZZZZZZ	8130	45845	2073	2961
16:06	MP28738-MB1	8069	45734	2050	2990
16:10	MP28738-B1	7781	43525	2048	2639
16:14	FA23139-1	7076	39810	2036	2355
16:18	MP28738-D1	7062	39590	2004	2344
16:23	MP28738-SD1	7715	43349	2059	2690
16:27	MP28738-PS1	7066	39689	2033	2334
16:31	MA12310-CCV12	7656	42918	2042	2511
16:35	MA12310-CCB12	8148	45608	2078	3026
16:39	MP28738-S1	7091	39437	2002	2262
16:43	MP28738-S2	7116	39895	2071	2267
16:47	ZZZZZZ	7848	44240	2097	2690
16:52	ZZZZZZ	7839	43829	2049	2745
16:56	ZZZZZZ	8046	45170	2083	2827
17:00	ZZZZZZ	7800	43747	2083	2664
17:04	ZZZZZZ	8001	44721	2055	2829
17:08	ZZZZZZ	7331	41076	2007	2493
17:12	ZZZZZZ	7287	40812	1995	2463

INTERNAL STANDARD SUMMARY

Login Number: FA23189
Account: FPMRNYR - FPM Remediations
Project: HM-AZ PBR Holloman AFB; Alamogordo, NM

File ID: SB040115M1.ICP Date Analyzed: 04/01/15 Methods: SW846 6010C
Analyst: LM Run ID: MA12310
Parameters: Sb,As,Cu,Pb,Zn

Time	Sample Description	Istd#1	Istd#2	Istd#3	Istd#4
17:16	ZZZZZZ	7171	39914	2000	2417
17:20	MA12310-CCV13	7613	42213	1983	2486
17:24	MA12310-CCB13	8011	45043	2021	2987
17:29	ZZZZZZ	7276	39773	2021	2312
17:33	ZZZZZZ	7702	42290	2017	2613
17:37	ZZZZZZ	7436	41111	1994	2540
17:41	ZZZZZZ	13665 !	74084 !	3715 !	2244
17:45	ZZZZZZ	7984	43986	2086	2574
17:50	ZZZZZZ	8132	45314	2070	2826
17:54	ZZZZZZ	8063	45234	2081	2850
17:58	ZZZZZZ	7829	44202	2062	2758
18:02	ZZZZZZ	8129	44974	2088	2785
18:06	ZZZZZZ	7692	42916	1979	2698
18:10	MA12310-CCV14	7629	42556	2000	2501
18:14	MA12310-CCB14	8032	45081	2024	3000
18:19	ZZZZZZ	7691	42745	1995	2695
18:23	MA12310-CRIA2	8008	44346	2018	2885
18:27	MA12310-ICSA2	6992	37986	1917	2168
18:31	MA12310-ICSAB2	6937	37743	1912	2122
18:35	MA12310-CCV15	7680	42332	1995	2507
18:39	MA12310-CCB15	8106	45320	2035	3030

R = Reference for ISTD limits. ! = Outside limits.

LEGEND:

Istd#	Parameter	Limits
Istd#1	Yttrium (2243)	60-125 %
Istd#2	Yttrium (3600)	60-125 %
Istd#3	Yttrium (3710)	60-125 %
Istd#4	Indium	60-125 %

BLANK RESULTS SUMMARY
Part 1 - Initial and Continuing Calibration Blanks

Login Number: FA23189
Account: FPMRNYR - FPM Remediations
Project: HM-AZ PBR Holloman AFB; Alamogordo, NM

File ID: SB040115M1.ICP Date Analyzed: 04/01/15 Methods: SW846 6010C
QC Limits: result < RL Run ID: MA12310 Units: ug/l

Time:			07:34		08:03		08:53		09:44	
Sample ID:			ICB1		CCB1		CCB2		CCB3	
Metal	RL	IDL	raw	final	raw	final	raw	final	raw	final
Aluminum	200	14	anr							
Antimony	6.0	1	-0.70	<6.0	-0.30	<6.0	0.60	<6.0	0.90	<6.0
Arsenic	10	1.3	0.30	<10	-0.40	<10	-0.60	<10	-1.1	<10
Barium	200	1	anr							
Beryllium	4.0	.2	anr							
Cadmium	5.0	.2	anr							
Calcium	1000	50	anr							
Chromium	10	1	anr							
Cobalt	50	.2	anr							
Copper	25	1	-0.10	<25	0.40	<25	0.30	<25	0.60	<25
Iron	300	17	anr							
Lead	5.0	1	0.50	<5.0	0.0	<5.0	0.20	<5.0	0.0	<5.0
Magnesium	5000	35	anr							
Manganese	15	.5	anr							
Molybdenum	50	.3	anr							
Nickel	40	.4	anr							
Potassium	10000	200	anr							
Selenium	10	2.4	anr							
Silver	10	.7	anr							
Sodium	10000	500	anr							
Strontium	10	.5								
Thallium	10	1.1	anr							
Tin	50	.9								
Titanium	10	.5								
Vanadium	50	.5	anr							
Zinc	20	3	-0.10	<20	0.0	<20	0.0	<20	-0.10	<20

(*) Outside of QC limits
(anr) Analyte not requested

BLANK RESULTS SUMMARY
Part 1 - Initial and Continuing Calibration Blanks

Login Number: FA23189
Account: FPMRNYR - FPM Remediations
Project: HM-AZ PBR Holloman AFB; Alamogordo, NM

File ID: SB040115M1.ICP Date Analyzed: 04/01/15 Methods: SW846 6010C
QC Limits: result < RL Run ID: MA12310 Units: ug/l

Time:			10:11		11:02		11:51		12:43	
Sample ID:			CCB4		CCB5		CCB6		CCB7	
Metal	RL	IDL	raw	final	raw	final	raw	final	raw	final
Aluminum	200	14	anr							
Antimony	6.0	1	1.5	<6.0	1.5	<6.0	0.60	<6.0	2.1	<6.0
Arsenic	10	1.3	0.0	<10	0.50	<10	-0.40	<10	-0.40	<10
Barium	200	1	anr							
Beryllium	4.0	.2	anr							
Cadmium	5.0	.2	anr							
Calcium	1000	50	anr							
Chromium	10	1	anr							
Cobalt	50	.2	anr							
Copper	25	1	0.0	<25	-0.10	<25	0.10	<25	0.30	<25
Iron	300	17	anr							
Lead	5.0	1	-0.50	<5.0	-0.40	<5.0	-0.60	<5.0	-0.10	<5.0
Magnesium	5000	35	anr							
Manganese	15	.5	anr							
Molybdenum	50	.3	anr							
Nickel	40	.4	anr							
Potassium	10000	200	anr							
Selenium	10	2.4	anr							
Silver	10	.7	anr							
Sodium	10000	500	anr							
Strontium	10	.5								
Thallium	10	1.1	anr							
Tin	50	.9								
Titanium	10	.5								
Vanadium	50	.5	anr							
Zinc	20	3	0.10	<20	0.10	<20	0.10	<20	0.10	<20

(*) Outside of QC limits
(anr) Analyte not requested

BLANK RESULTS SUMMARY
Part 1 - Initial and Continuing Calibration Blanks

Login Number: FA23189
Account: FPMRNYR - FPM Remediations
Project: HM-AZ PBR Holloman AFB; Alamogordo, NM

File ID: SB040115M1.ICP Date Analyzed: 04/01/15 Methods: SW846 6010C
QC Limits: result < RL Run ID: MA12310 Units: ug/l

Time:			13:33		14:23		14:56		15:45	
Sample ID:			CCB8		CCB9		CCB10		CCB11	
Metal	RL	IDL	raw	final	raw	final	raw	final	raw	final
Aluminum	200	14	anr							
Antimony	6.0	1	1.7	<6.0	1.8	<6.0	0.60	<6.0	2.3	<6.0
Arsenic	10	1.3	0.40	<10	-0.40	<10	0.60	<10	1.0	<10
Barium	200	1	anr							
Beryllium	4.0	.2	anr							
Cadmium	5.0	.2	anr							
Calcium	1000	50	anr							
Chromium	10	1	anr							
Cobalt	50	.2	anr							
Copper	25	1	0.60	<25	0.40	<25	0.0	<25	0.60	<25
Iron	300	17	anr							
Lead	5.0	1	-0.20	<5.0	-0.50	<5.0	0.0	<5.0	0.30	<5.0
Magnesium	5000	35	anr							
Manganese	15	.5	anr							
Molybdenum	50	.3	anr							
Nickel	40	.4	anr							
Potassium	10000	200	anr							
Selenium	10	2.4	anr							
Silver	10	.7	anr							
Sodium	10000	500	anr							
Strontium	10	.5								
Thallium	10	1.1	anr							
Tin	50	.9								
Titanium	10	.5								
Vanadium	50	.5	anr							
Zinc	20	3	0.50	<20	0.40	<20	0.0	<20	0.50	<20

(*) Outside of QC limits
(anr) Analyte not requested

BLANK RESULTS SUMMARY
Part 1 - Initial and Continuing Calibration Blanks

Login Number: FA23189
Account: FPMRNYR - FPM Remediations
Project: HM-AZ PBR Holloman AFB; Alamogordo, NM

File ID: SB040115M1.ICP Date Analyzed: 04/01/15 Methods: SW846 6010C
QC Limits: result < RL Run ID: MA12310 Units: ug/l

Time:			16:35		17:24		18:14		18:39	
Sample ID:			CCB12		CCB13		CCB14		CCB15	
Metal	RL	IDL	raw	final	raw	final	raw	final	raw	final
Aluminum	200	14	anr							
Antimony	6.0	1	2.4	<6.0	2.3	<6.0	1.5	<6.0	1.8	<6.0
Arsenic	10	1.3	0.50	<10	0.30	<10	0.30	<10	0.60	<10
Barium	200	1	anr							
Beryllium	4.0	.2	anr							
Cadmium	5.0	.2	anr							
Calcium	1000	50	anr							
Chromium	10	1	anr							
Cobalt	50	.2	anr							
Copper	25	1	0.20	<25	0.50	<25	0.80	<25	0.50	<25
Iron	300	17	anr							
Lead	5.0	1	1.0	<5.0	1.0	<5.0	0.80	<5.0	0.40	<5.0
Magnesium	5000	35	anr							
Manganese	15	.5	anr							
Molybdenum	50	.3	anr							
Nickel	40	.4	anr							
Potassium	10000	200	anr							
Selenium	10	2.4	anr							
Silver	10	.7	anr							
Sodium	10000	500	anr							
Strontium	10	.5								
Thallium	10	1.1	anr							
Tin	50	.9								
Titanium	10	.5								
Vanadium	50	.5	anr							
Zinc	20	3	0.40	<20	0.40	<20	0.50	<20	0.40	<20

(*) Outside of QC limits
(anr) Analyte not requested

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: FA23189
Account: FPMRNYR - FPM Remediations
Project: HM-AZ PBR Holloman AFB; Alamogordo, NM

File ID: SB040115M1.ICP Date Analyzed: 04/01/15 Methods: SW846 6010C
QC Limits: 90 to 110 % Recovery Run ID: MA12310 Units: ug/l

Time:		07:27			07:59			08:49	
Sample ID:	ICV	ICV1		CCV	CCV1		CCV	CCV2	
Metal	True	Results	% Rec	True	Results	% Rec	True	Results	% Rec
Aluminum	anr								
Antimony	2000	2020	101.0	2000	2020	101.0	2000	2030	101.5
Arsenic	2000	2040	102.0	2000	2020	101.0	2000	2040	102.0
Barium	anr								
Beryllium	anr								
Cadmium	anr								
Calcium	anr								
Chromium	anr								
Cobalt	anr								
Copper	2000	2010	100.5	2000	2030	101.5	2000	2050	102.5
Iron	anr								
Lead	2000	2000	100.0	2000	1960	98.0	2000	1960	98.0
Magnesium	anr								
Manganese	anr								
Molybdenum	anr								
Nickel	anr								
Potassium	anr								
Selenium	anr								
Silver	anr								
Sodium	anr								
Strontium									
Thallium	anr								
Tin									
Titanium									
Vanadium	anr								
Zinc	2000	2050	102.5	2000	2000	100.0	2000	2010	100.5

(*) Outside of QC limits
(anr) Analyte not requested

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: FA23189
Account: FPMRNYR - FPM Remediations
Project: HM-AZ PBR Holloman AFB; Alamogordo, NM

File ID: SB040115M1.ICP Date Analyzed: 04/01/15 Methods: SW846 6010C
QC Limits: 90 to 110 % Recovery Run ID: MA12310 Units: ug/l

Time:		09:40			10:06			10:58	
Sample ID:	CCV	CCV3		CCV	CCV4		CCV	CCV5	
Metal	True	Results	% Rec	True	Results	% Rec	True	Results	% Rec
Aluminum	anr								
Antimony	2000	2100	105.0	2000	1940	97.0	2000	1930	96.5
Arsenic	2000	2100	105.0	2000	1950	97.5	2000	1910	95.5
Barium	anr								
Beryllium	anr								
Cadmium	anr								
Calcium	anr								
Chromium	anr								
Cobalt	anr								
Copper	2000	2140	107.0	2000	1970	98.5	2000	1930	96.5
Iron	anr								
Lead	2000	1950	97.5	2000	1940	97.0	2000	1900	95.0
Magnesium	anr								
Manganese	anr								
Molybdenum	anr								
Nickel	anr								
Potassium	anr								
Selenium	anr								
Silver	anr								
Sodium	anr								
Strontium									
Thallium	anr								
Tin									
Titanium									
Vanadium	anr								
Zinc	2000	1990	99.5	2000	1980	99.0	2000	1940	97.0

(*) Outside of QC limits
(anr) Analyte not requested

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: FA23189
Account: FPMRNYR - FPM Remediations
Project: HM-AZ PBR Holloman AFB; Alamogordo, NM

File ID: SB040115M1.ICP Date Analyzed: 04/01/15 Methods: SW846 6010C
QC Limits: 90 to 110 % Recovery Run ID: MA12310 Units: ug/l

Time:		11:47			12:39			13:29	
Sample ID:	CCV	CCV6		CCV	CCV7		CCV	CCV8	
Metal	True	Results	% Rec	True	Results	% Rec	True	Results	% Rec
Aluminum	anr								
Antimony	2000	1980	99.0	2000	1990	99.5	2000	2020	101.0
Arsenic	2000	1990	99.5	2000	2010	100.5	2000	2040	102.0
Barium	anr								
Beryllium	anr								
Cadmium	anr								
Calcium	anr								
Chromium	anr								
Cobalt	anr								
Copper	2000	2010	100.5	2000	2040	102.0	2000	2050	102.5
Iron	anr								
Lead	2000	1930	96.5	2000	1950	97.5	2000	1960	98.0
Magnesium	anr								
Manganese	anr								
Molybdenum	anr								
Nickel	anr								
Potassium	anr								
Selenium	anr								
Silver	anr								
Sodium	anr								
Strontium									
Thallium	anr								
Tin									
Titanium									
Vanadium	anr								
Zinc	2000	2010	100.5	2000	2010	100.5	2000	2030	101.5

(*) Outside of QC limits
(anr) Analyte not requested

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: FA23189
Account: FPMRNYR - FPM Remediations
Project: HM-AZ PBR Holloman AFB; Alamogordo, NM

File ID: SB040115M1.ICP Date Analyzed: 04/01/15 Methods: SW846 6010C
QC Limits: 90 to 110 % Recovery Run ID: MA12310 Units: ug/l

Time:		14:19			14:49			15:41	
Sample ID:	CCV	CCV9		CCV	CCV10		CCV	CCV11	
Metal	True	Results	% Rec	True	Results	% Rec	True	Results	% Rec
Aluminum	anr								
Antimony	2000	2010	100.5	2000	1980	99.0	2000	2010	100.5
Arsenic	2000	2020	101.0	2000	1990	99.5	2000	2010	100.5
Barium	anr								
Beryllium	anr								
Cadmium	anr								
Calcium	anr								
Chromium	anr								
Cobalt	anr								
Copper	2000	2030	101.5	2000	2000	100.0	2000	2010	100.5
Iron	anr								
Lead	2000	1970	98.5	2000	1970	98.5	2000	2000	100.0
Magnesium	anr								
Manganese	anr								
Molybdenum	anr								
Nickel	anr								
Potassium	anr								
Selenium	anr								
Silver	anr								
Sodium	anr								
Strontium									
Thallium	anr								
Tin									
Titanium									
Vanadium	anr								
Zinc	2000	2030	101.5	2000	2010	100.5	2000	2040	102.0

(*) Outside of QC limits
(anr) Analyte not requested

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: FA23189
Account: FPMRNYR - FPM Remediations
Project: HM-AZ PBR Holloman AFB; Alamogordo, NM

File ID: SB040115M1.ICP Date Analyzed: 04/01/15 Methods: SW846 6010C
QC Limits: 90 to 110 % Recovery Run ID: MA12310 Units: ug/l

Time:		16:31			17:20			18:10	
Sample ID:	CCV	CCV12		CCV	CCV13		CCV	CCV14	
Metal	True	Results	% Rec	True	Results	% Rec	True	Results	% Rec
Aluminum	anr								
Antimony	2000	2040	102.0	2000	2040	102.0	2000	2050	102.5
Arsenic	2000	2040	102.0	2000	2040	102.0	2000	2050	102.5
Barium	anr								
Beryllium	anr								
Cadmium	anr								
Calcium	anr								
Chromium	anr								
Cobalt	anr								
Copper	2000	2030	101.5	2000	2050	102.5	2000	2060	103.0
Iron	anr								
Lead	2000	2020	101.0	2000	2030	101.5	2000	2020	101.0
Magnesium	anr								
Manganese	anr								
Molybdenum	anr								
Nickel	anr								
Potassium	anr								
Selenium	anr								
Silver	anr								
Sodium	anr								
Strontium									
Thallium	anr								
Tin									
Titanium									
Vanadium	anr								
Zinc	2000	2060	103.0	2000	2060	103.0	2000	2060	103.0

(*) Outside of QC limits
(anr) Analyte not requested

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: FA23189
Account: FPMRNYR - FPM Remediations
Project: HM-AZ PBR Holloman AFB; Alamogordo, NM

File ID: SB040115M1.ICP Date Analyzed: 04/01/15 Methods: SW846 6010C
QC Limits: 90 to 110 % Recovery Run ID: MA12310 Units: ug/l

Time:		18:35	
Sample ID:	CCV	CCV15	
Metal	True	Results	% Rec
Aluminum	anr		
Antimony	2000	2020	101.0
Arsenic	2000	2030	101.5
Barium	anr		
Beryllium	anr		
Cadmium	anr		
Calcium	anr		
Chromium	anr		
Cobalt	anr		
Copper	2000	2050	102.5
Iron	anr		
Lead	2000	2010	100.5
Magnesium	anr		
Manganese	anr		
Molybdenum	anr		
Nickel	anr		
Potassium	anr		
Selenium	anr		
Silver	anr		
Sodium	anr		
Strontium			
Thallium	anr		
Tin			
Titanium			
Vanadium	anr		
Zinc	2000	2030	101.5

(*) Outside of QC limits
(anr) Analyte not requested

HIGH STANDARD CHECK SUMMARY

Login Number: FA23189
Account: FPMRNYR - FPM Remediations
Project: HM-AZ PBR Holloman AFB; Alamogordo, NM

File ID: SB040115M1.ICP Date Analyzed: 04/01/15 Methods: SW846 6010C
QC Limits: 95 to 105 % Recovery Run ID: MA12310 Units: ug/l

Time:		07:24	
Sample ID:	HSTD	HSTD1	
Metal	True	Results	% Rec
Aluminum	anr		
Antimony	4000	4100	102.5
Arsenic	4000	4100	102.5
Barium	anr		
Beryllium	anr		
Cadmium	anr		
Calcium	anr		
Chromium	anr		
Cobalt	anr		
Copper	4000	4030	100.8
Iron	anr		
Lead	4000	4090	102.3
Magnesium	anr		
Manganese	anr		
Molybdenum	anr		
Nickel	anr		
Potassium	anr		
Selenium	anr		
Silver	anr		
Sodium	anr		
Strontium			
Thallium	anr		
Tin			
Titanium			
Vanadium	anr		
Zinc	4000	4020	100.5

(*) Outside of QC limits
(anr) Analyte not requested

LOW CALIBRATION CHECK STANDARDS SUMMARY

Login Number: FA23189
Account: FPMRNYR - FPM Remediations
Project: HM-AZ PBR Holloman AFB; Alamogordo, NM

File ID: SB040115M1.ICP Date Analyzed: 04/01/15 Methods: SW846 6010C
QC Limits: CRI 70-130% CRIA 70-130% Run ID: MA12310 Units: ug/l

Time:			07:47		18:23	
Sample ID:	CRI	CRIA	CRIA1		CRIA2	
Metal	True	True	Results	% Rec	Results	% Rec
Aluminum	400	200	anr			
Antimony	10	5.0	4.2	84.0	4.5	90.0
Arsenic	20	10	10.5	105.0	8.9	89.0
Barium	400	200	anr			
Beryllium	10	5.0	anr			
Cadmium	10	5.0	anr			
Calcium	2000	1000	anr			
Chromium	20	10	anr			
Cobalt	100	50	anr			
Copper	50	25	27.3	109.2	22.2	88.8
Iron	600	300	anr			
Lead	10	5.0	4.8	96.0	4.8	96.0
Magnesium	10000	5000	anr			
Manganese	30	15	anr			
Molybdenum	100	50	anr			
Nickel	80	40	anr			
Potassium	20000	10000	anr			
Selenium	20	10	anr			
Silver	20	10	anr			
Sodium	20000	10000	anr			
Strontium	20	10				
Thallium	20	10	anr			
Tin	100	50				
Titanium	20	10				
Vanadium	100	50	anr			
Zinc	40	20	21.6	108.0	19.1	95.5

(*) Outside of QC limits
(anr) Analyte not requested

INTERFERING ELEMENT CHECK STANDARDS SUMMARY
Part 1 - ICSA and ICSAB Standards

Login Number: FA23189
Account: FPMRNYR - FPM Remediations
Project: HM-AZ PBR Holloman AFB; Alamogordo, NM

File ID: SB040115M1.ICP Date Analyzed: 04/01/15 Methods: SW846 6010C
QC Limits: 80 to 120 % Recovery Run ID: MA12310 Units: ug/l

Time: / Sample ID: / Metal	ICSA True	ICSAB True	07:51 ICSA1 Results	% Rec	07:56 ICSAB1 Results	% Rec	18:27 ICSA2 Results	% Rec	18:31 ICSAB2 Results	% Rec
Aluminum	500000	500000	509000	101.8	500000	100.0	522000	104.4	520000	104.0
Antimony		1000	0.0		1070	107.0	-0.50		1110	111.0
Arsenic		1000	0.0		1060	106.0	0.60		1110	111.0
Barium		500	0.0		519	103.8	-0.10		546	109.2
Beryllium		500	0.10		513	102.6	0.0		536	107.2
Cadmium		1000	0.0		921	92.1	1.4		967	96.7
Calcium	500000	500000	486000	97.2	485000	97.0	497000	99.4	500000	100.0
Chromium		500	0.60		486	97.2	0.40		514	102.8
Cobalt		500	-0.40		474	94.8	-0.40		495	99.0
Copper		500	0.0		544	108.8	0.60		570	114.0
Iron	200000	200000	188000	94.0	189000	94.5	190000	95.0	194000	97.0
Lead		1000	0.10		950	95.0	-1.6		1010	101.0
Magnesium	500000	500000	501000	100.2	493000	98.6	508000	101.6	507000	101.4
Manganese		500	-0.30		502	100.4	-0.10		535	107.0
Molybdenum		1000	0.80		946	94.6	1.0		995	99.5
Nickel		1000	0.30		957	95.7	0.80		1010	101.0
Potassium			97.3		79.7		63.6		9.1	
Selenium		1000	0.10		1030	103.0	-1.5		1080	108.0
Silver		1000	0.50		987	98.7	-0.20		1030	103.0
Sodium			168		175		186		191	
Strontium		1000	-0.50		1030	103.0	-0.50		1070	107.0
Thallium		1000	0.10		957	95.7	0.80		1010	101.0
Tin		1000	0.0		952	95.2	0.0		990	99.0
Titanium		1000	-0.90		1010	101.0	-0.80		1070	107.0
Vanadium		500	0.0		478	95.6	-0.10		499	99.8
Zinc		1000	-2.3		948	94.8	-2.1		999	99.9

(*) Outside of QC limits
(anr) Analyte not requested

Accutest Laboratories Instrument Runlog
Inorganics Analyses

Login Number: FA23189
Account: FPMRNYR - FPM Remediations
Project: HM-AZ PBR Holloman AFB; Alamogordo, NM

File ID: SB040215M1.ICP Date Analyzed: 04/02/15 Methods: SW846 6010C
Analyst: LM Run ID: MA12315
Parameters: Sb,Pb,Zn

Time	Sample Description	Dilution Factor	PS Recov	Comments
07:01	MA12315-STD1	1		STDA
07:05	MA12315-STD2	1		STDB
07:08	MA12315-STD3	1		STDC
07:11	MA12315-STD4	1		STDD
07:15	MA12315-HSTD1	1		
07:19	MA12315-ICV1	1		
07:25	MA12315-ICB1	1		
07:30	MA12315-CRIA1	1		
07:35	MA12315-ICSA1	1		
07:40	MA12315-ICSAB1	1		
07:45	MA12315-CCV1	1		
07:50	MA12315-CCB1	1		
07:54	MP28741-MB1	1		
07:58	MP28741-B1	1		
08:02	FA23172-1	1		(sample used for QC only; not part of login FA23189)
08:07	MP28741-D1	1		
08:11	MP28741-SD1	5		
08:16	MP28741-PS1	1		
08:20	MP28741-S1	1		
08:24	MP28741-S2	1		
08:29	ZZZZZZ	1		
08:33	ZZZZZZ	1		
08:38	MA12315-CCV2	1		
08:42	MA12315-CCB2	1		
08:46	ZZZZZZ	1		
08:50	ZZZZZZ	1		
08:55	ZZZZZZ	1		
08:59	ZZZZZZ	1		
09:03	ZZZZZZ	1		
09:08	ZZZZZZ	1		
09:12	ZZZZZZ	1		
09:16	ZZZZZZ	1		
09:20	ZZZZZZ	1		

Accutest Laboratories Instrument Runlog
Inorganics Analyses

Login Number: FA23189
Account: FPMRNYR - FPM Remediations
Project: HM-AZ PBR Holloman AFB; Alamogordo, NM

File ID: SB040215M1.ICP Date Analyzed: 04/02/15 Methods: SW846 6010C
Analyst: LM Run ID: MA12315
Parameters: Sb,Pb,Zn

Time	Sample Description	Dilution Factor	PS Recov	Comments
09:25	ZZZZZZ	1		
09:29	MA12315-CCV3	1		
09:33	MA12315-CCB3	1		
09:37	ZZZZZZ	1		
09:41	ZZZZZZ	1		
09:45	ZZZZZZ	1		
09:49	ZZZZZZ	1		
09:53	ZZZZZZ	1		
09:58	ZZZZZZ	1		
10:02	ZZZZZZ	1		
10:06	FA23189-20	10		
10:11	MP28734-D1	10		
10:15	MP28734-S1	10		
10:19	MA12315-CCV4	1		
10:23	MA12315-CCB4	1		
10:50	MA12315-CCV5	1		
10:54	MA12315-CCB5	1		
10:58	MP28734-S2	10		
11:02	MP28734-PS1	10		
11:06	MP28734-SD1	50		
11:10	FA23189-1	10		
11:15	FA23189-3	10		
11:19	FA23189-5	10		
11:23	FA23189-7	10		
11:27	FA23189-9	10		
11:31	FA23189-11	10		
11:36	FA23189-13	10		
11:40	MA12315-CCV6	1		
11:44	MA12315-CCB6	1		
11:48	FA23189-14	10		
11:53	FA23189-16	10		
11:57	FA23189-18	10		
12:01	FA23189-22	10		

Accutest Laboratories Instrument Runlog
Inorganics Analyses

Login Number: FA23189
Account: FPMRNYR - FPM Remediations
Project: HM-AZ PBR Holloman AFB; Alamogordo, NM

File ID: SB040215M1.ICP Date Analyzed: 04/02/15 Methods: SW846 6010C
Analyst: LM Run ID: MA12315
Parameters: Sb,Pb,Zn

	Time	Sample Description	Dilution Factor	PS Recov	Comments
	12:05	FA23189-24	10		
	12:10	FA23189-25	4		
	12:18	FA23189-29	10		
	12:22	FA23189-31	10		
	12:26	FA23189-33	10		
	12:31	MA12315-CCV7	1		
	12:35	MA12315-CCB7	1		
	12:39	FA23189-35	10		
	12:43	FA23189-37	10		
---------->	Last reportable sample/prep for job FA23189				
	12:48	FA23026-1F	4		(sample used for QC only; not part of login FA23189)
	12:52	MP28735-D1	4		
	12:56	MP28735-S1	4		
	13:00	MP28735-S2	4		
	13:04	MP28735-PS1	4		
	13:08	MP28735-SD1	20		
	13:12	FA23139-1	2		(sample used for QC only; not part of login FA23189)
	13:16	MP28738-D1	2		
	13:21	MA12315-CCV8	1		
	13:25	MA12315-CCB8	1		
	13:29	MP28738-S1	2		
	13:33	MP28738-S2	2		
	13:37	MP28738-PS1	2		
	13:41	MP28738-SD1	10		
	13:45	ZZZZZZ	2		
	13:50	ZZZZZZ	4		
	13:54	ZZZZZZ	4		
	13:58	ZZZZZZ	4		
	14:02	ZZZZZZ	500		
	14:07	ZZZZZZ	50		
	14:11	MA12315-CCV9	1		
	14:15	MA12315-CCB9	1		
	14:40	MA12315-CCV10	1		
	14:50	MA12315-CCB10	1		

Accutest Laboratories Instrument Runlog
Inorganics Analyses

Login Number: FA23189
Account: FPMRNYR - FPM Remediations
Project: HM-AZ PBR Holloman AFB; Alamogordo, NM

File ID: SB040215M1.ICP Date Analyzed: 04/02/15 Methods: SW846 6010C
Analyst: LM Run ID: MA12315
Parameters: Sb,Pb,Zn

Time	Sample Description	Dilution Factor	PS Recov	Comments
14:53	ZZZZZZ	50		
14:57	FA22978-4	50		(sample used for QC only; not part of login FA23189)
15:01	MP28727-D1	50		
15:05	MP28727-S1	50		
15:10	MP28727-S2	50		
15:14	MP28727-PS1	50		
15:18	MP28727-SD1	250		
15:22	ZZZZZZ	500		
15:26	ZZZZZZ	20		
15:30	ZZZZZZ	50		
15:35	MA12315-CCV11	1		
15:39	MA12315-CCB11	1		
15:56	MA12315-CCV12	1		
16:01	MA12315-CCB12	1		
16:45	MA12315-CCV13	1		
16:49	MA12315-CCB13	1		
17:35	MA12315-CCV14	1		
17:40	MA12315-CCB14	1		
18:25	MA12315-CCV15	1		
18:29	MA12315-CCB15	1		
19:15	MA12315-CCV16	1		
19:19	MA12315-CCB16	1		
20:06	MA12315-CCV17	1		
20:10	MA12315-CCB17	1		
20:18	MP28747-MB1	1		
20:23	MP28747-B1	1		
20:27	FA23224-1	1		(sample used for QC only; not part of login FA23189)
20:31	MP28747-D1	1		
20:35	MP28747-SD1	5		
20:39	MP28747-PS1	1		
20:43	MP28747-S1	1		
20:47	MP28747-S2	1		
20:51	ZZZZZZ	1		

Accutest Laboratories Instrument Runlog
Inorganics Analyses

Login Number: FA23189
Account: FPMRNYR - FPM Remediations
Project: HM-AZ PBR Holloman AFB; Alamogordo, NM

File ID: SB040215M1.ICP Date Analyzed: 04/02/15 Methods: SW846 6010C
Analyst: LM Run ID: MA12315
Parameters: Sb,Pb,Zn

Time	Sample Description	Dilution Factor	PS Recov	Comments
20:56	MA12315-CCV18	1		
21:00	MA12315-CCB18	1		
21:04	ZZZZZZ	1		
21:16	ZZZZZZ	1		
21:25	ZZZZZZ	1		
21:29	ZZZZZZ	1		
21:33	ZZZZZZ	1		
21:37	ZZZZZZ	1		
21:42	ZZZZZZ	1		
21:46	MA12315-CCV19	1		
21:50	MA12315-CCB19	1		
21:54	ZZZZZZ	1		
21:58	ZZZZZZ	1		
22:02	ZZZZZZ	1		
22:07	ZZZZZZ	1		
22:11	ZZZZZZ	1		
22:15	ZZZZZZ	1		
22:19	ZZZZZZ	1		
22:24	ZZZZZZ	1		
22:28	ZZZZZZ	1		
22:32	ZZZZZZ	1		
22:36	MA12315-CCV20	1		
22:40	MA12315-CCB20	1		
22:44	ZZZZZZ	1		
22:48	ZZZZZZ	1		
22:53	ZZZZZZ	1		
22:57	ZZZZZZ	1		
23:01	ZZZZZZ	1		
23:05	ZZZZZZ	1		
23:09	ZZZZZZ	1		
23:14	ZZZZZZ	1		
23:18	ZZZZZZ	1		
23:22	ZZZZZZ	1		

Accutest Laboratories Instrument Runlog
Inorganics Analyses

Login Number: FA23189
Account: FPMRNYR - FPM Remediations
Project: HM-AZ PBR Holloman AFB; Alamogordo, NM

File ID: SB040215M1.ICP Date Analyzed: 04/02/15 Methods: SW846 6010C
Analyst: LM Run ID: MA12315
Parameters: Sb,Pb,Zn

Time	Sample Description	Dilution Factor	PS Recov	Comments
23:26	MA12315-CCV21	1		
23:31	MA12315-CCB21	1		
23:35	ZZZZZZ	1		
23:39	ZZZZZZ	1		
23:43	ZZZZZZ	1		
23:47	ZZZZZZ	1		
23:51	ZZZZZZ	1		
23:56	MP28745-MB1	1		
00:00	MP28745-B1	1		
00:19	MA12315-CCV22	1		
00:23	MA12315-CCB22	1		
00:47	MA12315-CRIA2	1		
00:51	MA12315-ICSA2	1		
00:55	MA12315-ICSAB2	1		
00:59	MA12315-CCV23	1		
01:03	MA12315-CCB23	1		

----------> Last reportable CCB for job FA23189
Refer to raw data for calibration curve and standards.

INTERNAL STANDARD SUMMARY

Login Number: FA23189
Account: FPMRNYR - FPM Remediations
Project: HM-AZ PBR Holloman AFB; Alamogordo, NM

File ID: SB040215M1.ICP Date Analyzed: 04/02/15 Methods: SW846 6010C
Analyst: LM Run ID: MA12315
Parameters: Sb,Pb,Zn

Time	Sample Description	Istd#1	Istd#2	Istd#3	Istd#4
07:01	MA12315-STD1	7808	43702	3698	3166
07:05	MA12315-STD2	7722	42744	3673	2935
07:08	MA12315-STD3	7452	41491	3683	2653
07:11	MA12315-STD4	7136	40654	3678	2455
07:15	MA12315-HSTD1	7072	40286	3667	2442
07:19	MA12315-ICV1	7309	40993	3650	2608
07:25	MA12315-ICB1	7711 R	43725 R	3687 R	3143 R
07:30	MA12315-CRIA1	7590	42816	3673	2992
07:35	MA12315-ICSA1	6817	37234	3528	2318
07:40	MA12315-ICSAB1	6700	36716	3476	2263
07:45	MA12315-CCV1	7237	40490	3585	2609
07:50	MA12315-CCB1	7538	42626	3554	3112
07:54	MP28741-MB1	7690	43655	3601	3153
07:58	MP28741-B1	7411	41435	3593	2781
08:02	FA23172-1	6238	34144	3407	2105
08:07	MP28741-D1	6169	33708	3317	2089
08:11	MP28741-SD1	6921	38189	3511	2515
08:16	MP28741-PS1	6228	34296	3425	2086
08:20	MP28741-S1	6302	34784	3403	2080
08:24	MP28741-S2	6237	34492	3340	2060
08:29	ZZZZZZ	6307	35003	3404	2139
08:33	ZZZZZZ	6560	36568	3488	2222
08:38	MA12315-CCV2	7191	40992	3557	2602
08:42	MA12315-CCB2	7600	42916	3600	3121
08:46	ZZZZZZ	6152	34027	3410	2035
08:50	ZZZZZZ	4745	26808	3009	1560 !
08:55	ZZZZZZ	6018	33476	3297	2020
08:59	ZZZZZZ	6374	35251	3410	2136
09:03	ZZZZZZ	6331	35349	3386	2131
09:08	ZZZZZZ	6620	36898	3451	2242
09:12	ZZZZZZ	7125	39814	3453	2622
09:16	ZZZZZZ	6150	33826	3323	2095
09:20	ZZZZZZ	7427	41486	3476	2840

INTERNAL STANDARD SUMMARY

Login Number: FA23189
Account: FPMRNYR - FPM Remediations
Project: HM-AZ PBR Holloman AFB; Alamogordo, NM

File ID: SB040215M1.ICP Date Analyzed: 04/02/15 Methods: SW846 6010C
Analyst: LM Run ID: MA12315
Parameters: Sb,Pb,Zn

Time	Sample Description	Istd#1	Istd#2	Istd#3	Istd#4
09:25	ZZZZZZ	7512	42320	3535	2868
09:29	MA12315-CCV3	7241	41194	3497	2637
09:33	MA12315-CCB3	7603	43325	3524	3152
09:37	ZZZZZZ	7445	41911	3494	2885
09:41	ZZZZZZ	7456	41792	3476	2907
09:45	ZZZZZZ	7383	41774	3447	2912
09:49	ZZZZZZ	7634	43515	3495	3170
09:53	ZZZZZZ	7616	42722	3504	3054
09:58	ZZZZZZ	7513	41906	3462	3001
10:02	ZZZZZZ	7579	42359	3487	3016
10:06	FA23189-20	7016	38937	3471	2539
10:11	MP28734-D1	7046	39430	3495	2559
10:15	MP28734-S1	7087	39579	3478	2598
10:19	MA12315-CCV4	7260	40367	3438	2653
10:23	MA12315-CCB4	7661	42818	3532	3190
10:50	MA12315-CCV5	7237	40347	3433	2654
10:54	MA12315-CCB5	7594	42417	3456	3189
10:58	MP28734-S2	7091	39469	3450	2636
11:02	MP28734-PS1	7049	39311	3516	2555
11:06	MP28734-SD1	7444	41677	3499	2915
11:10	FA23189-1	7096	39549	3484	2624
11:15	FA23189-3	7129	39925	3428	2650
11:19	FA23189-5	7017	39230	3538	2586
11:23	FA23189-7	7256	40319	3557	2625
11:27	FA23189-9	7130	39896	3515	2622
11:31	FA23189-11	7263	40818	3568	2674
11:36	FA23189-13	7106	40132	3511	2618
11:40	MA12315-CCV6	7325	41526	3534	2666
11:44	MA12315-CCB6	7755	43864	3551	3222
11:48	FA23189-14	7095	40080	3535	2624
11:53	FA23189-16	7125	40153	3557	2630
11:57	FA23189-18	7122	40149	3606	2631
12:01	FA23189-22	7120	40073	3517	2604

INTERNAL STANDARD SUMMARY

Login Number: FA23189
Account: FPMRNYR - FPM Remediations
Project: HM-AZ PBR Holloman AFB; Alamogordo, NM

File ID: SB040215M1.ICP Date Analyzed: 04/02/15 Methods: SW846 6010C
Analyst: LM Run ID: MA12315
Parameters: Sb,Pb,Zn

Time	Sample Description	Istd#1	Istd#2	Istd#3	Istd#4
12:05	FA23189-24	7343	41297	3646	2631
12:10	FA23189-25	7914	43632	3902	2553
12:18	FA23189-29	7164	40508	3556	2652
12:22	FA23189-31	7069	40139	3576	2578
12:26	FA23189-33	7212	41044	3600	2648
12:31	MA12315-CCV7	7450	42716	3676	2717
12:35	MA12315-CCB7	7761	44324	3659	3228
12:39	FA23189-35	7207	41152	3646	2667
12:43	FA23189-37	7225	41258	3599	2679
12:48	FA23026-1F	7588	43386	3635	2928
12:52	MP28735-D1	7591	43554	3680	2920
12:56	MP28735-S1	7571	43442	3671	2843
13:00	MP28735-S2	7551	43171	3660	2844
13:04	MP28735-PS1	7561	43195	3621	2914
13:08	MP28735-SD1	7767	44661	3638	3121
13:12	FA23139-1	7072	41235	3617	2641
13:16	MP28738-D1	7042	41154	3590	2632
13:21	MA12315-CCV8	7415	42836	3623	2676
13:25	MA12315-CCB8	7779	44892	3645	3195
13:29	MP28738-S1	7107	41005	3609	2588
13:33	MP28738-S2	7107	41123	3566	2597
13:37	MP28738-PS1	6993	40391	3555	2621
13:41	MP28738-SD1	7499	43264	3587	2975
13:45	ZZZZZZ	7312	41452	3487	2831
13:50	ZZZZZZ	8996	50343	4278	2704
13:54	ZZZZZZ	7697	43998	3599	2994
13:58	ZZZZZZ	8998	51564	4200	3176
14:02	ZZZZZZ	7534	42795	3601	2932
14:07	ZZZZZZ	7700	44062	3627	3051
14:11	MA12315-CCV9	7389	42621	3604	2681
14:15	MA12315-CCB9	7763	45004	3597	3205
14:40	MA12315-CCV10	7318	42173	3545	2646
14:50	MA12315-CCB10	7637	43992	3558	3165

INTERNAL STANDARD SUMMARY

Login Number: FA23189
Account: FPMRNYR - FPM Remediations
Project: HM-AZ PBR Holloman AFB; Alamogordo, NM

File ID: SB040215M1.ICP Date Analyzed: 04/02/15 Methods: SW846 6010C
Analyst: LM Run ID: MA12315
Parameters: Sb,Pb,Zn

Time	Sample Description	Istd#1	Istd#2	Istd#3	Istd#4
14:53	ZZZZZZ	7573	42905	3536	2978
14:57	FA22978-4	7521	42987	3530	2941
15:01	MP28727-D1	7532	43060	3549	2937
15:05	MP28727-S1	7466	43087	3585	2917
15:10	MP28727-S2	7450	42886	3548	2911
15:14	MP28727-PS1	7519	43063	3586	2918
15:18	MP28727-SD1	7679	45223	3672	3051
15:22	ZZZZZZ	7548	45056	3734	2871
15:26	ZZZZZZ	7557	45334	3753	2892
15:30	ZZZZZZ	7674	46716	3811	2934
15:35	MA12315-CCV11	7401	45229	3777	2604
15:39	MA12315-CCB11	7705	47433	3786	3103
15:56	MA12315-CCV12	7316	44032	3654	2607
16:01	MA12315-CCB12	7692	46593	3714	3102
16:45	MA12315-CCV13	7175	40946	3468	2610
16:49	MA12315-CCB13	7572	43381	3521	3127
17:35	MA12315-CCV14	7246	41336	3502	2627
17:40	MA12315-CCB14	7629	43959	3575	3139
18:25	MA12315-CCV15	7249	41388	3476	2636
18:29	MA12315-CCB15	7614	43568	3501	3154
19:15	MA12315-CCV16	7276	41638	3509	2648
19:19	MA12315-CCB16	7608	43630	3485	3144
20:06	MA12315-CCV17	7265	41976	3471	2631
20:10	MA12315-CCB17	7663	44744	3539	3156
20:18	MP28747-MB1	7619	44536	3542	3122
20:23	MP28747-B1	7324	41862	3447	2756
20:27	FA23224-1	7586	44189	3531	3047
20:31	MP28747-D1	7569	43956	3557	3031
20:35	MP28747-SD1	7635	43858	3506	3145
20:39	MP28747-PS1	7351	42837	3484	2878
20:43	MP28747-S1	7391	42181	3518	2730
20:47	MP28747-S2	7327	41551	3471	2701
20:51	ZZZZZZ	7540	43625	3493	3049

INTERNAL STANDARD SUMMARY

Login Number: FA23189
Account: FPMRNYR - FPM Remediations
Project: HM-AZ PBR Holloman AFB; Alamogordo, NM

File ID: SB040215M1.ICP Date Analyzed: 04/02/15 Methods: SW846 6010C
Analyst: LM Run ID: MA12315
Parameters: Sb,Pb,Zn

Time	Sample Description	Istd#1	Istd#2	Istd#3	Istd#4
20:56	MA12315-CCV18	7236	41765	3495	2638
21:00	MA12315-CCB18	7636	44125	3521	3162
21:04	ZZZZZZ	7524	43108	3477	2960
21:16	ZZZZZZ	7614	43681	3519	2990
21:25	ZZZZZZ	7633	43843	3527	3058
21:29	ZZZZZZ	7024	39700	3450	2553
21:33	ZZZZZZ	7133	40888	3415	2761
21:37	ZZZZZZ	7082	40374	3485	2588
21:42	ZZZZZZ	7063	40477	3439	2616
21:46	MA12315-CCV19	7320	42120	3548	2668
21:50	MA12315-CCB19	7709	44320	3561	3205
21:54	ZZZZZZ	7282	41704	3468	2822
21:58	ZZZZZZ	6748	38337	3445	2439
22:02	ZZZZZZ	6755	38213	3407	2433
22:07	ZZZZZZ	6749	38716	3361	2467
22:11	ZZZZZZ	6901	39541	3471	2526
22:15	ZZZZZZ	7451	42857	3473	2891
22:19	ZZZZZZ	7399	43040	3504	2880
22:24	ZZZZZZ	9720 !	54852 !	4532	2782
22:28	ZZZZZZ	7247	41329	3506	2711
22:32	ZZZZZZ	7172	40897	3473	2678
22:36	MA12315-CCV20	7346	42082	3480	2675
22:40	MA12315-CCB20	7782	45104	3584	3215
22:44	ZZZZZZ	7179	41678	3501	2791
22:48	ZZZZZZ	7457	43413	3469	3100
22:53	ZZZZZZ	7363	42188	3559	2627
22:57	ZZZZZZ	7330	42367	3503	2819
23:01	ZZZZZZ	6836	38985	3507	2363
23:05	ZZZZZZ	7506	43442	3578	2880
23:09	ZZZZZZ	7492	42801	3557	2835
23:14	ZZZZZZ	7628	43850	3619	2789
23:18	ZZZZZZ	7506	43343	3504	2959
23:22	ZZZZZZ	7466	43268	3515	2948

INTERNAL STANDARD SUMMARY

Login Number: FA23189
Account: FPMRNYR - FPM Remediations
Project: HM-AZ PBR Holloman AFB; Alamogordo, NM

File ID: SB040215M1.ICP Date Analyzed: 04/02/15 Methods: SW846 6010C
Analyst: LM Run ID: MA12315
Parameters: Sb,Pb,Zn

Time	Sample Description	Istd#1	Istd#2	Istd#3	Istd#4
23:26	MA12315-CCV21	7358	42252	3503	2685
23:31	MA12315-CCB21	7804	45268	3600	3240
23:35	ZZZZZZ	7713	44846	3618	3051
23:39	ZZZZZZ	7554	43430	3546	2935
23:43	ZZZZZZ	7666	44050	3509	3036
23:47	ZZZZZZ	7708	45145	3558	3206
23:51	ZZZZZZ	7629	44088	3627	2955
23:56	MP28745-MB1	7752	45729	3648	3230
00:00	MP28745-B1	7448	42973	3553	2809
00:19	MA12315-CCV22	7462	43534	3511	2730
00:23	MA12315-CCB22	7903	46308	3636	3283
00:47	MA12315-CRIA2	7793	45274	3440	3124
00:51	MA12315-ICSA2	6793	38578	3297	2355
00:55	MA12315-ICSAB2	6776	38779	3302	2332
00:59	MA12315-CCV23	7427	43193	3421	2710
01:03	MA12315-CCB23	7841	45678	3406	3256

R = Reference for ISTD limits. ! = Outside limits.

LEGEND:

Istd#	Parameter	Limits
Istd#1	Yttrium (2243)	60-125 %
Istd#2	Yttrium (3600)	60-125 %
Istd#3	Yttrium (3710)	60-125 %
Istd#4	Indium	60-125 %

BLANK RESULTS SUMMARY
Part 1 - Initial and Continuing Calibration Blanks

Login Number: FA23189
Account: FPMRNYR - FPM Remediations
Project: HM-AZ PBR Holloman AFB; Alamogordo, NM

File ID: SB040215M1.ICP Date Analyzed: 04/02/15 Methods: SW846 6010C
QC Limits: result < RL Run ID: MA12315 Units: ug/l

Time:			07:25		07:50		08:42		09:33	
Sample ID:			ICB1		CCB1		CCB2		CCB3	
Metal	RL	IDL	raw	final	raw	final	raw	final	raw	final
Aluminum	200	14	anr							
Antimony	6.0	1	0.60	<6.0	-0.10	<6.0	-0.30	<6.0	0.60	<6.0
Arsenic	10	1.3	anr							
Barium	200	1	anr							
Beryllium	4.0	.2								
Cadmium	5.0	.2	anr							
Calcium	1000	50								
Chromium	10	1	anr							
Cobalt	50	.2								
Copper	25	1	anr							
Iron	300	17	anr							
Lead	5.0	1	0.20	<5.0	-0.20	<5.0	0.20	<5.0	-0.10	<5.0
Magnesium	5000	35								
Manganese	15	.5	anr							
Molybdenum	50	.3								
Nickel	40	.4	anr							
Potassium	10000	200								
Selenium	10	2.4	anr							
Silver	10	.7								
Sodium	10000	500	anr							
Strontium	10	.5								
Thallium	10	1.1	anr							
Tin	50	.9								
Titanium	10	.5								
Vanadium	50	.5								
Zinc	20	3	-0.10	<20	0.0	<20	-0.10	<20	-0.10	<20

(*) Outside of QC limits
(anr) Analyte not requested

BLANK RESULTS SUMMARY
Part 1 - Initial and Continuing Calibration Blanks

Login Number: FA23189
Account: FPMRNYR - FPM Remediations
Project: HM-AZ PBR Holloman AFB; Alamogordo, NM

File ID: SB040215M1.ICP Date Analyzed: 04/02/15 Methods: SW846 6010C
QC Limits: result < RL Run ID: MA12315 Units: ug/l

Time:			10:23		10:54		11:44		12:35	
Sample ID:			CCB4		CCB5		CCB6		CCB7	
Metal	RL	IDL	raw	final	raw	final	raw	final	raw	final
Aluminum	200	14	anr							
Antimony	6.0	1	-0.60	<6.0	2.9	<6.0	1.1	<6.0	0.80	<6.0
Arsenic	10	1.3	anr							
Barium	200	1	anr							
Beryllium	4.0	.2								
Cadmium	5.0	.2	anr							
Calcium	1000	50								
Chromium	10	1	anr							
Cobalt	50	.2								
Copper	25	1	anr							
Iron	300	17	anr							
Lead	5.0	1	0.30	<5.0	0.0	<5.0	-0.40	<5.0	-0.20	<5.0
Magnesium	5000	35								
Manganese	15	.5	anr							
Molybdenum	50	.3								
Nickel	40	.4	anr							
Potassium	10000	200								
Selenium	10	2.4	anr							
Silver	10	.7								
Sodium	10000	500	anr							
Strontium	10	.5								
Thallium	10	1.1	anr							
Tin	50	.9								
Titanium	10	.5								
Vanadium	50	.5								
Zinc	20	3	-0.20	<20	0.20	<20	0.0	<20	-0.10	<20

(*) Outside of QC limits
(anr) Analyte not requested

BLANK RESULTS SUMMARY
Part 1 - Initial and Continuing Calibration Blanks

Login Number: FA23189
Account: FPMRNYR - FPM Remediations
Project: HM-AZ PBR Holloman AFB; Alamogordo, NM

File ID: SB040215M1.ICP Date Analyzed: 04/02/15 Methods: SW846 6010C
QC Limits: result < RL Run ID: MA12315 Units: ug/l

Time:			13:25		14:15		14:50		15:39	
Sample ID:			CCB8		CCB9		CCB10		CCB11	
Metal	RL	IDL	raw	final	raw	final	raw	final	raw	final
Aluminum	200	14	anr							
Antimony	6.0	1	1.5	<6.0	0.80	<6.0	1.6	<6.0	2.5	<6.0
Arsenic	10	1.3	anr							
Barium	200	1	anr							
Beryllium	4.0	.2								
Cadmium	5.0	.2	anr							
Calcium	1000	50								
Chromium	10	1	anr							
Cobalt	50	.2								
Copper	25	1	anr							
Iron	300	17	anr							
Lead	5.0	1	0.40	<5.0	0.10	<5.0	0.90	<5.0	0.60	<5.0
Magnesium	5000	35								
Manganese	15	.5	anr							
Molybdenum	50	.3								
Nickel	40	.4	anr							
Potassium	10000	200								
Selenium	10	2.4	anr							
Silver	10	.7								
Sodium	10000	500	anr							
Strontium	10	.5								
Thallium	10	1.1	anr							
Tin	50	.9								
Titanium	10	.5								
Vanadium	50	.5								
Zinc	20	3	0.30	<20	0.20	<20	0.20	<20	0.10	<20

(*) Outside of QC limits
(anr) Analyte not requested

BLANK RESULTS SUMMARY
Part 1 - Initial and Continuing Calibration Blanks

Login Number: FA23189
Account: FPMRNYR - FPM Remediations
Project: HM-AZ PBR Holloman AFB; Alamogordo, NM

File ID: SB040215M1.ICP Date Analyzed: 04/02/15 Methods: SW846 6010C
QC Limits: result < RL Run ID: MA12315 Units: ug/l

Time:			16:01		16:49		17:40		18:29	
Sample ID:			CCB12		CCB13		CCB14		CCB15	
Metal	RL	IDL	raw	final	raw	final	raw	final	raw	final
Aluminum	200	14	anr							
Antimony	6.0	1	3.9	<6.0	2.1	<6.0	1.6	<6.0	1.7	<6.0
Arsenic	10	1.3	anr							
Barium	200	1	anr							
Beryllium	4.0	.2								
Cadmium	5.0	.2	anr							
Calcium	1000	50								
Chromium	10	1	anr							
Cobalt	50	.2								
Copper	25	1	anr							
Iron	300	17	anr							
Lead	5.0	1	0.70	<5.0	0.40	<5.0	0.70	<5.0	0.80	<5.0
Magnesium	5000	35								
Manganese	15	.5	anr							
Molybdenum	50	.3								
Nickel	40	.4	anr							
Potassium	10000	200								
Selenium	10	2.4	anr							
Silver	10	.7								
Sodium	10000	500	anr							
Strontium	10	.5								
Thallium	10	1.1	anr							
Tin	50	.9								
Titanium	10	.5								
Vanadium	50	.5								
Zinc	20	3	0.60	<20	0.10	<20	0.10	<20	0.50	<20

(*) Outside of QC limits
(anr) Analyte not requested

BLANK RESULTS SUMMARY
Part 1 - Initial and Continuing Calibration Blanks

Login Number: FA23189
Account: FPMRNYR - FPM Remediations
Project: HM-AZ PBR Holloman AFB; Alamogordo, NM

File ID: SB040215M1.ICP Date Analyzed: 04/02/15 Methods: SW846 6010C
QC Limits: result < RL Run ID: MA12315 Units: ug/l

Time:			19:19		20:10		21:00		21:50	
Sample ID:			CCB16		CCB17		CCB18		CCB19	
Metal	RL	IDL	raw	final	raw	final	raw	final	raw	final
Aluminum	200	14	anr							
Antimony	6.0	1	0.90	<6.0	1.2	<6.0	0.50	<6.0	0.80	<6.0
Arsenic	10	1.3	anr							
Barium	200	1	anr							
Beryllium	4.0	.2								
Cadmium	5.0	.2	anr							
Calcium	1000	50								
Chromium	10	1	anr							
Cobalt	50	.2								
Copper	25	1	anr							
Iron	300	17	anr							
Lead	5.0	1	0.40	<5.0	0.60	<5.0	0.0	<5.0	0.20	<5.0
Magnesium	5000	35								
Manganese	15	.5	anr							
Molybdenum	50	.3								
Nickel	40	.4	anr							
Potassium	10000	200								
Selenium	10	2.4	anr							
Silver	10	.7								
Sodium	10000	500	anr							
Strontium	10	.5								
Thallium	10	1.1	anr							
Tin	50	.9								
Titanium	10	.5								
Vanadium	50	.5								
Zinc	20	3	0.20	<20	0.10	<20	0.10	<20	0.0	<20

(*) Outside of QC limits
(anr) Analyte not requested

BLANK RESULTS SUMMARY
Part 1 - Initial and Continuing Calibration Blanks

Login Number: FA23189
Account: FPMRNYR - FPM Remediations
Project: HM-AZ PBR Holloman AFB; Alamogordo, NM

File ID: SB040215M1.ICP Date Analyzed: 04/02/15 Methods: SW846 6010C
QC Limits: result < RL Run ID: MA12315 Units: ug/l

Time:			22:40		23:31		00:23		01:03	
Sample ID:			CCB20		CCB21		CCB22		CCB23	
Metal	RL	IDL	raw	final	raw	final	raw	final	raw	final
Aluminum	200	14	anr							
Antimony	6.0	1	1.1	<6.0	0.60	<6.0	1.1	<6.0	0.90	<6.0
Arsenic	10	1.3	anr							
Barium	200	1	anr							
Beryllium	4.0	.2								
Cadmium	5.0	.2	anr							
Calcium	1000	50								
Chromium	10	1	anr							
Cobalt	50	.2								
Copper	25	1	anr							
Iron	300	17	anr							
Lead	5.0	1	0.90	<5.0	1.1	<5.0	1.0	<5.0	0.60	<5.0
Magnesium	5000	35								
Manganese	15	.5	anr							
Molybdenum	50	.3								
Nickel	40	.4	anr							
Potassium	10000	200								
Selenium	10	2.4	anr							
Silver	10	.7								
Sodium	10000	500	anr							
Strontium	10	.5								
Thallium	10	1.1	anr							
Tin	50	.9								
Titanium	10	.5								
Vanadium	50	.5								
Zinc	20	3	0.30	<20	0.30	<20	0.30	<20	0.20	<20

(*) Outside of QC limits
(anr) Analyte not requested

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: FA23189
Account: FPMRNYR - FPM Remediations
Project: HM-AZ PBR Holloman AFB; Alamogordo, NM

File ID: SB040215M1.ICP Date Analyzed: 04/02/15 Methods: SW846 6010C
QC Limits: 90 to 110 % Recovery Run ID: MA12315 Units: ug/l

Time:		07:19			07:45			08:38	
Sample ID:	ICV	ICV1		CCV	CCV1		CCV	CCV2	
Metal	True	Results	% Rec	True	Results	% Rec	True	Results	% Rec
Aluminum	anr								
Antimony	2000	2040	102.0	2000	2030	101.5	2000	2090	104.5
Arsenic	anr								
Barium	anr								
Beryllium									
Cadmium	anr								
Calcium									
Chromium	anr								
Cobalt									
Copper	anr								
Iron	anr								
Lead	2000	2030	101.5	2000	1980	99.0	2000	2000	100.0
Magnesium									
Manganese	anr								
Molybdenum									
Nickel	anr								
Potassium									
Selenium	anr								
Silver									
Sodium	anr								
Strontium									
Thallium	anr								
Tin									
Titanium									
Vanadium									
Zinc	2000	2070	103.5	2000	2040	102.0	2000	2060	103.0

(*) Outside of QC limits
(anr) Analyte not requested

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: FA23189
Account: FPMRNYR - FPM Remediations
Project: HM-AZ PBR Holloman AFB; Alamogordo, NM

File ID: SB040215M1.ICP Date Analyzed: 04/02/15 Methods: SW846 6010C
QC Limits: 90 to 110 % Recovery Run ID: MA12315 Units: ug/l

Time:		09:29			10:19			10:50	
Sample ID:	CCV	CCV3		CCV	CCV4		CCV	CCV5	
Metal	True	Results	% Rec	True	Results	% Rec	True	Results	% Rec
Aluminum	anr								
Antimony	2000	2100	105.0	2000	2110	105.5	2000	2000	100.0
Arsenic	anr								
Barium	anr								
Beryllium									
Cadmium	anr								
Calcium									
Chromium	anr								
Cobalt									
Copper	anr								
Iron	anr								
Lead	2000	1980	99.0	2000	1970	98.5	2000	1980	99.0
Magnesium									
Manganese	anr								
Molybdenum									
Nickel	anr								
Potassium									
Selenium	anr								
Silver									
Sodium	anr								
Strontium									
Thallium	anr								
Tin									
Titanium									
Vanadium									
Zinc	2000	2050	102.5	2000	2040	102.0	2000	2020	101.0

(*) Outside of QC limits
(anr) Analyte not requested

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: FA23189
Account: FPMRNYR - FPM Remediations
Project: HM-AZ PBR Holloman AFB; Alamogordo, NM

File ID: SB040215M1.ICP Date Analyzed: 04/02/15 Methods: SW846 6010C
QC Limits: 90 to 110 % Recovery Run ID: MA12315 Units: ug/l

Time:		11:40			12:31			13:21	
Sample ID:	CCV	CCV6		CCV	CCV7		CCV	CCV8	
Metal	True	Results	% Rec	True	Results	% Rec	True	Results	% Rec
Aluminum	anr								
Antimony	2000	1990	99.5	2000	1980	99.0	2000	1970	98.5
Arsenic	anr								
Barium	anr								
Beryllium									
Cadmium	anr								
Calcium									
Chromium	anr								
Cobalt									
Copper	anr								
Iron	anr								
Lead	2000	1990	99.5	2000	1950	97.5	2000	1990	99.5
Magnesium									
Manganese	anr								
Molybdenum									
Nickel	anr								
Potassium									
Selenium	anr								
Silver									
Sodium	anr								
Strontium									
Thallium	anr								
Tin									
Titanium									
Vanadium									
Zinc	2000	2010	100.5	2000	1980	99.0	2000	2000	100.0

(*) Outside of QC limits
(anr) Analyte not requested

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: FA23189
Account: FPMRNYR - FPM Remediations
Project: HM-AZ PBR Holloman AFB; Alamogordo, NM

File ID: SB040215M1.ICP Date Analyzed: 04/02/15 Methods: SW846 6010C
QC Limits: 90 to 110 % Recovery Run ID: MA12315 Units: ug/l

Time:		14:11			14:40			15:35	
Sample ID:	CCV	CCV9		CCV	CCV10		CCV	CCV11	
Metal	True	Results	% Rec	True	Results	% Rec	True	Results	% Rec
Aluminum	anr								
Antimony	2000	1980	99.0	2000	1980	99.0	2000	1910	95.5
Arsenic	anr								
Barium	anr								
Beryllium									
Cadmium	anr								
Calcium									
Chromium	anr								
Cobalt									
Copper	anr								
Iron	anr								
Lead	2000	1980	99.0	2000	1990	99.5	2000	2040	102.0
Magnesium									
Manganese	anr								
Molybdenum									
Nickel	anr								
Potassium									
Selenium	anr								
Silver									
Sodium	anr								
Strontium									
Thallium	anr								
Tin									
Titanium									
Vanadium									
Zinc	2000	1990	99.5	2000	2010	100.5	2000	2020	101.0

(*) Outside of QC limits
(anr) Analyte not requested

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: FA23189
Account: FPMRNYR - FPM Remediations
Project: HM-AZ PBR Holloman AFB; Alamogordo, NM

File ID: SB040215M1.ICP Date Analyzed: 04/02/15 Methods: SW846 6010C
QC Limits: 90 to 110 % Recovery Run ID: MA12315 Units: ug/l

Time:		15:56			16:45			17:35	
Sample ID:	CCV	CCV12		CCV	CCV13		CCV	CCV14	
Metal	True	Results	% Rec	True	Results	% Rec	True	Results	% Rec
Aluminum	anr								
Antimony	2000	1990	99.5	2000	2060	103.0	2000	2030	101.5
Arsenic	anr								
Barium	anr								
Beryllium									
Cadmium	anr								
Calcium									
Chromium	anr								
Cobalt									
Copper	anr								
Iron	anr								
Lead	2000	1990	99.5	2000	1970	98.5	2000	1970	98.5
Magnesium									
Manganese	anr								
Molybdenum									
Nickel	anr								
Potassium									
Selenium	anr								
Silver									
Sodium	anr								
Strontium									
Thallium	anr								
Tin									
Titanium									
Vanadium									
Zinc	2000	2010	100.5	2000	2020	101.0	2000	2020	101.0

(*) Outside of QC limits
(anr) Analyte not requested

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: FA23189
Account: FPMRNYR - FPM Remediations
Project: HM-AZ PBR Holloman AFB; Alamogordo, NM

File ID: SB040215M1.ICP Date Analyzed: 04/02/15 Methods: SW846 6010C
QC Limits: 90 to 110 % Recovery Run ID: MA12315 Units: ug/l

Time:		18:25			19:15			20:06	
Sample ID:	CCV	CCV15		CCV	CCV16		CCV	CCV17	
Metal	True	Results	% Rec	True	Results	% Rec	True	Results	% Rec
Aluminum	anr								
Antimony	2000	2060	103.0	2000	2050	102.5	2000	2060	103.0
Arsenic	anr								
Barium	anr								
Beryllium									
Cadmium	anr								
Calcium									
Chromium	anr								
Cobalt									
Copper	anr								
Iron	anr								
Lead	2000	1970	98.5	2000	1970	98.5	2000	1990	99.5
Magnesium									
Manganese	anr								
Molybdenum									
Nickel	anr								
Potassium									
Selenium	anr								
Silver									
Sodium	anr								
Strontium									
Thallium	anr								
Tin									
Titanium									
Vanadium									
Zinc	2000	2030	101.5	2000	2020	101.0	2000	2040	102.0

(*) Outside of QC limits
(anr) Analyte not requested

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: FA23189
Account: FPMRNYR - FPM Remediations
Project: HM-AZ PBR Holloman AFB; Alamogordo, NM

File ID: SB040215M1.ICP Date Analyzed: 04/02/15 Methods: SW846 6010C
QC Limits: 90 to 110 % Recovery Run ID: MA12315 Units: ug/l

Time:		20:56			21:46			22:36	
Sample ID:	CCV	CCV18		CCV	CCV19		CCV	CCV20	
Metal	True	Results	% Rec	True	Results	% Rec	True	Results	% Rec
Aluminum	anr								
Antimony	2000	2090	104.5	2000	2070	103.5	2000	2060	103.0
Arsenic	anr								
Barium	anr								
Beryllium									
Cadmium	anr								
Calcium									
Chromium	anr								
Cobalt									
Copper	anr								
Iron	anr								
Lead	2000	1980	99.0	2000	1960	98.0	2000	1960	98.0
Magnesium									
Manganese	anr								
Molybdenum									
Nickel	anr								
Potassium									
Selenium	anr								
Silver									
Sodium	anr								
Strontium									
Thallium	anr								
Tin									
Titanium									
Vanadium									
Zinc	2000	2040	102.0	2000	2010	100.5	2000	2010	100.5

(*) Outside of QC limits
(anr) Analyte not requested

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: FA23189
Account: FPMRNYR - FPM Remediations
Project: HM-AZ PBR Holloman AFB; Alamogordo, NM

File ID: SB040215M1.ICP Date Analyzed: 04/02/15 Methods: SW846 6010C
QC Limits: 90 to 110 % Recovery Run ID: MA12315 Units: ug/l

Time:		23:26			00:19			00:59	
Sample ID:	CCV	CCV21		CCV	CCV22		CCV	CCV23	
Metal	True	Results	% Rec	True	Results	% Rec	True	Results	% Rec
Aluminum	anr								
Antimony	2000	2080	104.0	2000	2080	104.0	2000	2080	104.0
Arsenic	anr								
Barium	anr								
Beryllium									
Cadmium	anr								
Calcium									
Chromium	anr								
Cobalt									
Copper	anr								
Iron	anr								
Lead	2000	1960	98.0	2000	1940	97.0	2000	1950	97.5
Magnesium									
Manganese	anr								
Molybdenum									
Nickel	anr								
Potassium									
Selenium	anr								
Silver									
Sodium	anr								
Strontium									
Thallium	anr								
Tin									
Titanium									
Vanadium									
Zinc	2000	2010	100.5	2000	1990	99.5	2000	1990	99.5

(*) Outside of QC limits
(anr) Analyte not requested

HIGH STANDARD CHECK SUMMARY

Login Number: FA23189
Account: FPMRNYR - FPM Remediations
Project: HM-AZ PBR Holloman AFB; Alamogordo, NM

File ID: SB040215M1.ICP Date Analyzed: 04/02/15 Methods: SW846 6010C
QC Limits: 95 to 105 % Recovery Run ID: MA12315 Units: ug/l

Time:		07:15	
Sample ID:	HSTD	HSTD1	
Metal	True	Results	% Rec
Aluminum	anr		
Antimony	4000	4080	102.0
Arsenic	anr		
Barium	anr		
Beryllium			
Cadmium	anr		
Calcium			
Chromium	anr		
Cobalt			
Copper	anr		
Iron	anr		
Lead	4000	4070	101.8
Magnesium			
Manganese	anr		
Molybdenum			
Nickel	anr		
Potassium			
Selenium	anr		
Silver			
Sodium	anr		
Strontium			
Thallium	anr		
Tin			
Titanium			
Vanadium			
Zinc	4000	4030	100.8

(*) Outside of QC limits
(anr) Analyte not requested

LOW CALIBRATION CHECK STANDARDS SUMMARY

Login Number: FA23189
Account: FPMRNYR - FPM Remediations
Project: HM-AZ PBR Holloman AFB; Alamogordo, NM

File ID: SB040215M1.ICP Date Analyzed: 04/02/15 Methods: SW846 6010C
QC Limits: CRI 70-130% CRIA 70-130% Run ID: MA12315 Units: ug/l

Time:			07:30		00:47	
Sample ID:	CRI	CRIA	CRIA1		CRIA2	
Metal	True	True	Results	% Rec	Results	% Rec
Aluminum	400	200	anr			
Antimony	10	5.0	4.2	84.0	3.8	76.0
Arsenic	20	10	anr			
Barium	400	200	anr			
Beryllium	10	5.0				
Cadmium	10	5.0	anr			
Calcium	2000	1000				
Chromium	20	10	anr			
Cobalt	100	50				
Copper	50	25	anr			
Iron	600	300	anr			
Lead	10	5.0	4.4	88.0	4.8	96.0
Magnesium	10000	5000				
Manganese	30	15	anr			
Molybdenum	100	50				
Nickel	80	40	anr			
Potassium	20000	10000				
Selenium	20	10	anr			
Silver	20	10				
Sodium	20000	10000	anr			
Strontium	20	10				
Thallium	20	10	anr			
Tin	100	50				
Titanium	20	10				
Vanadium	100	50				
Zinc	40	20	18.6	93.0	19.2	96.0

(*) Outside of QC limits
(anr) Analyte not requested

INTERFERING ELEMENT CHECK STANDARDS SUMMARY
Part 1 - ICSA and ICSAB Standards

Login Number: FA23189
Account: FPMRNYR - FPM Remediations
Project: HM-AZ PBR Holloman AFB; Alamogordo, NM

File ID: SB040215M1.ICP Date Analyzed: 04/02/15 Methods: SW846 6010C
QC Limits: 80 to 120 % Recovery Run ID: MA12315 Units: ug/l

Time:			07:35		07:40		00:51		00:55	
Sample ID:	ICSA	ICSAB	ICSA1		ICSAB1		ICSA2		ICSAB2	
Metal	True	True	Results	% Rec	Results	% Rec	Results	% Rec	Results	% Rec
Aluminum	500000	500000	501000	100.2	502000	100.4	493000	98.6	490000	98.0
Antimony		1000	-0.60		1050	105.0	-1.5		1090	109.0
Arsenic		1000	-0.60		1060	106.0	-0.30		1100	110.0
Barium		500	0.40		523	104.6	0.60		577	115.4
Beryllium		500	0.10		521	104.2	0.10		517	103.4
Cadmium		1000	0.0		925	92.5	0.80		897	89.7
Calcium	500000	500000	479000	95.8	483000	96.6	464000	92.8	471000	94.2
Chromium		500	0.40		494	98.8	0.40		487	97.4
Cobalt		500	-0.40		475	95.0	-0.40		461	92.2
Copper		500	0.0		545	109.0	0.90		577	115.4
Iron	200000	200000	186000	93.0	190000	95.0	187000	93.5	189000	94.5
Lead		1000	-0.10		953	95.3	-4.3		919	91.9
Magnesium	500000	500000	497000	99.4	497000	99.4	507000	101.4	502000	100.4
Manganese		500	-0.20		510	102.0	0.70		539	107.8
Molybdenum		1000	0.40		953	95.3	0.70		954	95.4
Nickel		1000	0.90		963	96.3	1.6		976	97.6
Potassium			34.8		53.5		94.1		61.1	
Selenium		1000	0.0		1020	102.0	1.6		1070	107.0
Silver		1000	0.40		978	97.8	0.50		1070	107.0
Sodium			167		205		134		149	
Strontium		1000	-0.10		1030	103.0	1.1		1060	106.0
Thallium		1000	-0.60		952	95.2	-0.20		923	92.3
Tin		1000	-0.10		969	96.9	0.50		1000	100.0
Titanium		1000	-1.2		1030	103.0	1.4		1070	107.0
Vanadium		500	0.0		492	98.4	0.30		520	104.0
Zinc		1000	-2.0		957	95.7	-1.4		928	92.8

(*) Outside of QC limits
(anr) Analyte not requested

Accutest Laboratories Instrument Runlog
Inorganics Analyses

Login Number: FA23189
Account: FPMRNYR - FPM Remediations
Project: HM-AZ PBR Holloman AFB; Alamogordo, NM

File ID: SA040315M1.ICP Date Analyzed: 04/03/15 Methods: SW846 6010C
Analyst: LM Run ID: MA12317
Parameters: Sb,As,Cu,Pb,Zn

Time	Sample Description	Dilution Factor	PS Recov	Comments
07:16	MA12317-STD1	1		STDA
07:19	MA12317-STD2	1		STDB
07:23	MA12317-STD3	1		STDC
07:26	MA12317-STD4	1		STDD
07:30	MA12317-HSTD1	1		
07:34	MA12317-ICV1	1		
07:39	MA12317-ICB1	1		
07:43	MA12317-CRIA1	1		
07:47	MA12317-CRIA2	1		
07:52	MA12317-ICSA1	1		
07:58	MA12317-ICSAB1	1		
08:02	MA12317-CCV1	1		
08:07	MA12317-CCB1	1		
08:11	MP28748-MB1	1		
08:15	MP28748-B1	1		
08:20	FA23034-3	1		(sample used for QC only; not part of login FA23189)
08:24	MP28748-D1	1		
08:29	MP28748-SD1	5		
08:33	MP28748-S1	1		
08:37	MP28748-S2	1		
08:42	ZZZZZZ	1		
08:46	ZZZZZZ	1		
08:51	ZZZZZZ	1		
08:55	MA12317-CCV2	1		
09:00	MA12317-CCB2	1		
09:24	MA12317-CCV3	1		
09:30	MA12317-CCB3	1		
09:34	ZZZZZZ	1		
09:39	ZZZZZZ	1		
09:43	ZZZZZZ	1		
09:48	ZZZZZZ	1		
09:52	ZZZZZZ	1		
09:56	ZZZZZZ	1		

Accutest Laboratories Instrument Runlog
Inorganics Analyses

Login Number: FA23189
Account: FPMRNYR - FPM Remediations
Project: HM-AZ PBR Holloman AFB; Alamogordo, NM

File ID: SA040315M1.ICP Date Analyzed: 04/03/15 Methods: SW846 6010C
Analyst: LM Run ID: MA12317
Parameters: Sb,As,Cu,Pb,Zn

Time	Sample Description	Dilution Factor	PS Recov	Comments
10:01	ZZZZZZ	1		
10:05	ZZZZZZ	1		
10:10	FA23181-1L	1		(sample used for QC only; not part of login FA23189)
10:14	ZZZZZZ	1		
10:19	MA12317-CCV4	1		
10:23	MA12317-CCB4	1		
11:05	MP28748-D2	1		
11:10	MP28748-MB2	1		
11:14	MP28748-B2	1		
11:18	MP28748-MB3	1		
11:23	MP28748-B3	1		
11:27	MP28748-MB4	1		
11:32	MP28748-B4	1		
11:36	MP28748-MB5	1		
11:41	MP28748-B5	1		
11:45	ZZZZZZ	4		
11:49	MA12317-CCV5	1		
11:54	MA12317-CCB5	1		
11:58	FA23189-27	10		
12:03	ZZZZZZ	10		
12:07	ZZZZZZ	25		
12:12	ZZZZZZ	20		
12:16	ZZZZZZ	25		
12:21	FA22818-1	10		(sample used for QC only; not part of login FA23189)
12:26	MP28745-D1	10		
12:30	MP28745-D2	10		
12:35	MP28745-S1	10		
12:40	MP28745-S2	10		
12:44	MA12317-CCV6	1		
12:49	MA12317-CCB6	1		
12:53	MP28745-PS1	10		
12:58	MP28745-SD1	50		
13:02	MP28752-MB1	1		

Accutest Laboratories Instrument Runlog
Inorganics Analyses

Login Number: FA23189
Account: FPMRNYR - FPM Remediations
Project: HM-AZ PBR Holloman AFB; Alamogordo, NM

File ID: SA040315M1.ICP Date Analyzed: 04/03/15 Methods: SW846 6010C
Analyst: LM Run ID: MA12317
Parameters: Sb,As,Cu,Pb,Zn

Time	Sample Description	Dilution Factor	PS Recov	Comments
13:07	MP28752-B1	1		
13:40	MA12317-CCV7	1		
13:44	MA12317-CCB7	1		
14:07	MA12317-CCV8	1		
14:17	MA12317-CCB8	1		
16:07	MA12317-CCV9	1		
16:14	MA12317-CCB9	1		
16:18	ZZZZZZ	10		
16:23	ZZZZZZ	10		
16:27	ZZZZZZ	10		
16:32	ZZZZZZ	10		
16:36	ZZZZZZ	10		
16:41	ZZZZZZ	10		
16:45	ZZZZZZ	10		
16:50	ZZZZZZ	10		
16:54	ZZZZZZ	10		
16:59	ZZZZZZ	10		
17:03	MA12317-CCV10	1		
17:08	MA12317-CCB10	1		
17:12	ZZZZZZ	10		
17:17	ZZZZZZ	10		
17:22	ZZZZZZ	10		
17:26	ZZZZZZ	10		
17:31	ZZZZZZ	10		
17:35	ZZZZZZ	10		
17:40	ZZZZZZ	10		
17:44	FA23189-39	10		
17:49	FA23189-41	10		
---------->	Last reportable sample/prep for job FA23189			
17:54	MP28754-MB1	1		
17:58	MA12317-CCV11	1		
18:03	MA12317-CCB11	1		
18:07	MP28754-B1	1		
18:52	MA12317-CCV12	1		

Accutest Laboratories Instrument Runlog
Inorganics Analyses

Login Number: FA23189
Account: FPMRNYR - FPM Remediations
Project: HM-AZ PBR Holloman AFB; Alamogordo, NM

File ID: SA040315M1.ICP Date Analyzed: 04/03/15 Methods: SW846 6010C
Analyst: LM Run ID: MA12317
Parameters: Sb,As,Cu,Pb,Zn

Time	Sample Description	Dilution Factor	PS Recov	Comments
18:56	MA12317-CCB12	1		
19:46	MA12317-CCV13	1		
19:50	MA12317-CCB13	1		
19:59	ZZZZZZ	1		
20:04	ZZZZZZ	1		
20:08	ZZZZZZ	1		
20:13	ZZZZZZ	1		
20:17	ZZZZZZ	1		
20:22	MA12317-CRIA3	1		
20:26	MA12317-ICSA2	1		
20:31	MA12317-ICSAB2	1		
20:35	MA12317-CCV14	1		
20:40	MA12317-CCB14	1		

----------> Last reportable CCB for job FA23189
Refer to raw data for calibration curve and standards.

INTERNAL STANDARD SUMMARY

Login Number: FA23189
Account: FPMRNYR - FPM Remediations
Project: HM-AZ PBR Holloman AFB; Alamogordo, NM

File ID: SA040315M1.ICP Date Analyzed: 04/03/15 Methods: SW846 6010C
Analyst: LM Run ID: MA12317
Parameters: Sb,As,Cu,Pb,Zn

Time	Sample Description	Istd#1	Istd#2	Istd#3	Istd#4
07:16	MA12317-STD1	8461	56554	2412	3763
07:19	MA12317-STD2	8301	55409	2422	3507
07:23	MA12317-STD3	7844	52269	2342	3155
07:26	MA12317-STD4	7648	51189	2291	2991
07:30	MA12317-HSTD1	7591	51307	2308	2970
07:34	MA12317-ICV1	7872	53091	2326	3176
07:39	MA12317-ICB1	8151 R	55057 R	2360 R	3668 R
07:43	MA12317-CRIA1	8052			
07:47	MA12317-CRIA2	8012	53913	2353	3472
07:52	MA12317-ICSA1	7353	47733	2172	2876
07:58	MA12317-ICSAB1	7287	47574	2210	2829
08:02	MA12317-CCV1	7754	52003	2268	3140
08:07	MA12317-CCB1	8156	55236	2341	3694
08:11	MP28748-MB1	8235	56135	2354	3699
08:15	MP28748-B1	7950	53671	2357	3333
08:20	FA23034-3	7979	53145	2367	3326
08:24	MP28748-D1	7940	52492	2361	3321
08:29	MP28748-SD1	8037	53963	2303	3483
08:33	MP28748-S1	7902	51781	2274	3188
08:37	MP28748-S2	8085	52675	2299	3255
08:42	ZZZZZZ	7953	52568	2240	3314
08:46	ZZZZZZ	7924	51879	2210	3289
08:51	ZZZZZZ	7911	50910	2097	3271
08:55	MA12317-CCV2	7608	50097	2070	3109
09:00	MA12317-CCB2	7971	52466	2061	3615
09:24	MA12317-CCV3	7569	49867	2052	3100
09:30	MA12317-CCB3	8164	54058	2158	3715
09:34	ZZZZZZ	7820	50775	2126	3255
09:39	ZZZZZZ	7778	50459	2103	3241
09:43	ZZZZZZ	7811	50925	2108	3255
09:48	ZZZZZZ	7841	50304	2105	3276
09:52	ZZZZZZ	7704	49966	2121	3204
09:56	ZZZZZZ	7692	50103	2097	3236

INTERNAL STANDARD SUMMARY

Login Number: FA23189
Account: FPMRNYR - FPM Remediations
Project: HM-AZ PBR Holloman AFB; Alamogordo, NM

File ID: SA040315M1.ICP Date Analyzed: 04/03/15 Methods: SW846 6010C
Analyst: LM Run ID: MA12317
Parameters: Sb,As,Cu,Pb,Zn

Time	Sample Description	Istd#1	Istd#2	Istd#3	Istd#4
10:01	ZZZZZZ	7688	49518	2080	3203
10:05	ZZZZZZ	7724	49882	2059	3229
10:10	FA23181-1L	7747	49635	2062	3195
10:14	ZZZZZZ	7930	54022	2218	3599
10:19	MA12317-CCV4	7850	52386	2209	3221
10:23	MA12317-CCB4	8175	54694	2228	3729
11:05	MP28748-D2	7956	52341	2236	3308
11:10	MP28748-MB2	7970	53008	2247	3381
11:14	MP28748-B2	7982	52056	2212	3270
11:18	MP28748-MB3	7934	51760	2203	3333
11:23	MP28748-B3	7900	50828	2171	3218
11:27	MP28748-MB4	7944	52322	2210	3327
11:32	MP28748-B4	7950	51329	2145	3231
11:36	MP28748-MB5	8358	55867	2163	3753
11:41	MP28748-B5	8067	52547	2151	3382
11:45	ZZZZZZ	6947	43753	2051	2720
11:49	MA12317-CCV5	7971	52172	2137	3243
11:54	MA12317-CCB5	8398	55661	2208	3790
11:58	FA23189-27	7925	52003	2166	3204
12:03	ZZZZZZ	8614	56146	2255	3406
12:07	ZZZZZZ	9255	60935	2393	3686
12:12	ZZZZZZ	9027	59535	2342	3714
12:16	ZZZZZZ	8917	58615	2300	3710
12:21	FA22818-1	8925	57989	2398	3282
12:26	MP28745-D1	9041	58235	2420	3309
12:30	MP28745-D2	8943	58174	2399	3266
12:35	MP28745-S1	8811	57149	2358	3277
12:40	MP28745-S2	9028	58728	2424	3210
12:44	MA12317-CCV6	7761	51119	2083	3179
12:49	MA12317-CCB6	8177	54165	2138	3723
12:53	MP28745-PS1	8868	57462	2380	3285
12:58	MP28745-SD1	8280	54203	2184	3508
13:02	MP28752-MB1	8305	56079	2183	3758

INTERNAL STANDARD SUMMARY

Login Number: FA23189
Account: FPMRNYR - FPM Remediations
Project: HM-AZ PBR Holloman AFB; Alamogordo, NM

File ID: SA040315M1.ICP Date Analyzed: 04/03/15 Methods: SW846 6010C
Analyst: LM Run ID: MA12317
Parameters: Sb,As,Cu,Pb,Zn

Time	Sample Description	Istd#1	Istd#2	Istd#3	Istd#4
13:07	MP28752-B1	7939	52728	2111	3335
13:40	MA12317-CCV7	8552	53002	1830	3435
13:44	MA12317-CCB7	9127	57304	1975	4052
14:07	MA12317-CCV8	8712	55152	2021	3501
14:17	MA12317-CCB8	9167	58122	2087	4083
16:07	MA12317-CCV9	8067	53755	2278	2698
16:14	MA12317-CCB9	8363	55882	2316	3087
16:18	ZZZZZZ	7850	52263	2204	2672
16:23	ZZZZZZ	7693	50310	2113	2617
16:27	ZZZZZZ	7798	50102	2064	2639
16:32	ZZZZZZ	7905	50564	2067	2674
16:36	ZZZZZZ	7824	50580	2064	2655
16:41	ZZZZZZ	7859	51050	2093	2624
16:45	ZZZZZZ	7973	51021	2076	2698
16:50	ZZZZZZ	8278	52636	2161	2759
16:54	ZZZZZZ	7963	50802	2052	2696
16:59	ZZZZZZ	7948	50943	2070	2653
17:03	MA12317-CCV10	7809	50155	1982	2628
17:08	MA12317-CCB10	8313	53097	2088	3034
17:12	ZZZZZZ	7976	51033	2100	2654
17:17	ZZZZZZ	8018	50933	2082	2673
17:22	ZZZZZZ	8106	50867	2069	2689
17:26	ZZZZZZ	8034	50544	2083	2681
17:31	ZZZZZZ	8044	50612	2033	2658
17:35	ZZZZZZ	8448	52201	2089	2806
17:40	ZZZZZZ	8488	51429	2097	2850
17:44	FA23189-39	8131	50209	2009	2723
17:49	FA23189-41	8291	51270	2062	2744
17:54	MP28754-MB1	8852	55415	2134	3157
17:58	MA12317-CCV11	8166	51447	2064	2699
18:03	MA12317-CCB11	8602	53971	2082	3081
18:07	MP28754-B1	8471	53214	2072	2847
18:52	MA12317-CCV12	8198	51539	2011	2664

INTERNAL STANDARD SUMMARY

Login Number: FA23189
Account: FPMRNYR - FPM Remediations
Project: HM-AZ PBR Holloman AFB; Alamogordo, NM

File ID: SA040315M1.ICP Date Analyzed: 04/03/15 Methods: SW846 6010C
Analyst: LM Run ID: MA12317
Parameters: Sb,As,Cu,Pb,Zn

Time	Sample Description	Istd#1	Istd#2	Istd#3	Istd#4
18:56	MA12317-CCB12	8615	53990	2031	3036
19:46	MA12317-CCV13	8146	51200	1970	2616
19:50	MA12317-CCB13	8558	53333	2006	2994
19:59	ZZZZZZ	9127	56136	2136	2869
20:04	ZZZZZZ	9341	57817	2241	2757
20:08	ZZZZZZ	9401	58616	2280	2707
20:13	ZZZZZZ	8715	53615	2113	2691
20:17	ZZZZZZ	9254	57420	2224	2819
20:22	MA12317-CRIA3	8533	53441	2000	2888
20:26	MA12317-ICSA2	7783	47452	1910	2493
20:31	MA12317-ICSAB2	7776	47958	1939	2461
20:35	MA12317-CCV14	8260	51408	1975	2647
20:40	MA12317-CCB14	8791	54146	2067	3057

R = Reference for ISTD limits. ! = Outside limits.

LEGEND:

Istd#	Parameter	Limits
Istd#1	Yttrium (2243)	60-125 %
Istd#2	Yttrium (3600)	60-125 %
Istd#3	Yttrium (3710)	60-125 %
Istd#4	Indium	60-125 %

BLANK RESULTS SUMMARY
Part 1 - Initial and Continuing Calibration Blanks

Login Number: FA23189
Account: FPMRNYR - FPM Remediations
Project: HM-AZ PBR Holloman AFB; Alamogordo, NM

File ID: SA040315M1.ICP Date Analyzed: 04/03/15 Methods: SW846 6010C
QC Limits: result < RL Run ID: MA12317 Units: ug/l

Time:			07:39		08:07		09:00		09:30	
Sample ID:			ICB1		CCB1		CCB2		CCB3	
Metal	RL	IDL	raw	final	raw	final	raw	final	raw	final
Aluminum	200	14	anr							
Antimony	6.0	1	0.20	<6.0	-0.20	<6.0	0.50	<6.0	2.5	<6.0
Arsenic	10	1.3	1.2	<10	1.4	<10	0.30	<10	0.40	<10
Barium	200	1	anr							
Beryllium	4.0	.2								
Cadmium	5.0	.2	anr							
Calcium	1000	50								
Chromium	10	1	anr							
Cobalt	50	.2								
Copper	25	1	0.0	<25	0.0	<25	-0.30	<25	0.20	<25
Iron	300	17	anr							
Lead	5.0	1	-0.30	<5.0	-1.1	<5.0	-1.1	<5.0	0.20	<5.0
Magnesium	5000	35								
Manganese	15	.5	anr							
Molybdenum	50	.3								
Nickel	40	.4								
Potassium	10000	200								
Selenium	10	2.4	anr							
Silver	10	.7	anr							
Sodium	10000	500	anr							
Strontium	10	.5								
Thallium	10	1.1	anr							
Tin	50	.9								
Titanium	10	.5								
Vanadium	50	.5								
Zinc	20	3	-0.20	<20	-0.10	<20	-0.10	<20	0.10	<20

(*) Outside of QC limits
(anr) Analyte not requested

BLANK RESULTS SUMMARY
Part 1 - Initial and Continuing Calibration Blanks

Login Number: FA23189
Account: FPMRNYR - FPM Remediations
Project: HM-AZ PBR Holloman AFB; Alamogordo, NM

File ID: SA040315M1.ICP Date Analyzed: 04/03/15 Methods: SW846 6010C
QC Limits: result < RL Run ID: MA12317 Units: ug/l

Time:			10:23		11:54		12:49		13:44	
Sample ID:			CCB4		CCB5		CCB6		CCB7	
Metal	RL	IDL	raw	final	raw	final	raw	final	raw	final
Aluminum	200	14	anr							
Antimony	6.0	1	-0.60	<6.0	1.0	<6.0	-0.50	<6.0	1.0	<6.0
Arsenic	10	1.3	0.70	<10	-0.60	<10	-0.50	<10	-0.60	<10
Barium	200	1	anr							
Beryllium	4.0	.2								
Cadmium	5.0	.2	anr							
Calcium	1000	50								
Chromium	10	1	anr							
Cobalt	50	.2								
Copper	25	1	0.30	<25	0.10	<25	0.40	<25	-0.50	<25
Iron	300	17	anr							
Lead	5.0	1	0.60	<5.0	0.0	<5.0	0.20	<5.0	0.30	<5.0
Magnesium	5000	35								
Manganese	15	.5	anr							
Molybdenum	50	.3								
Nickel	40	.4								
Potassium	10000	200								
Selenium	10	2.4	anr							
Silver	10	.7	anr							
Sodium	10000	500	anr							
Strontium	10	.5								
Thallium	10	1.1	anr							
Tin	50	.9								
Titanium	10	.5								
Vanadium	50	.5								
Zinc	20	3	0.10	<20	0.10	<20	0.10	<20	0.10	<20

(*) Outside of QC limits
(anr) Analyte not requested

BLANK RESULTS SUMMARY
Part 1 - Initial and Continuing Calibration Blanks

Login Number: FA23189
Account: FPMRNYR - FPM Remediations
Project: HM-AZ PBR Holloman AFB; Alamogordo, NM

File ID: SA040315M1.ICP Date Analyzed: 04/03/15 Methods: SW846 6010C
QC Limits: result < RL Run ID: MA12317 Units: ug/l

Time:			14:17		16:14		17:08		18:03	
Sample ID:			CCB8		CCB9		CCB10		CCB11	
Metal	RL	IDL	raw	final	raw	final	raw	final	raw	final
Aluminum	200	14	anr							
Antimony	6.0	1	2.5	<6.0	1.9	<6.0	1.8	<6.0	1.4	<6.0
Arsenic	10	1.3	-0.40	<10	0.60	<10	1.1	<10	1.2	<10
Barium	200	1	anr							
Beryllium	4.0	.2								
Cadmium	5.0	.2	anr							
Calcium	1000	50								
Chromium	10	1	anr							
Cobalt	50	.2								
Copper	25	1	0.40	<25	0.90	<25	0.50	<25	0.10	<25
Iron	300	17	anr							
Lead	5.0	1	1.1	<5.0	-1.1	<5.0	-0.70	<5.0	-0.90	<5.0
Magnesium	5000	35								
Manganese	15	.5	anr							
Molybdenum	50	.3								
Nickel	40	.4								
Potassium	10000	200								
Selenium	10	2.4	anr							
Silver	10	.7	anr							
Sodium	10000	500	anr							
Strontium	10	.5								
Thallium	10	1.1	anr							
Tin	50	.9								
Titanium	10	.5								
Vanadium	50	.5								
Zinc	20	3	0.20	<20	0.30	<20	0.30	<20	0.20	<20

(*) Outside of QC limits
(anr) Analyte not requested

BLANK RESULTS SUMMARY
Part 1 - Initial and Continuing Calibration Blanks

Login Number: FA23189
Account: FPMRNYR - FPM Remediations
Project: HM-AZ PBR Holloman AFB; Alamogordo, NM

File ID: SA040315M1.ICP Date Analyzed: 04/03/15 Methods: SW846 6010C
QC Limits: result < RL Run ID: MA12317 Units: ug/l

Time:			18:56		19:50		20:40	
Sample ID:			CCB12		CCB13		CCB14	
Metal	RL	IDL	raw	final	raw	final	raw	final
Aluminum	200	14	anr					
Antimony	6.0	1	1.2	<6.0	1.5	<6.0	2.4	<6.0
Arsenic	10	1.3	1.9	<10	1.0	<10	1.6	<10
Barium	200	1	anr					
Beryllium	4.0	.2						
Cadmium	5.0	.2	anr					
Calcium	1000	50						
Chromium	10	1	anr					
Cobalt	50	.2						
Copper	25	1	-0.10	<25	-0.10	<25	-0.50	<25
Iron	300	17	anr					
Lead	5.0	1	-0.70	<5.0	-1.7	<5.0	-0.50	<5.0
Magnesium	5000	35						
Manganese	15	.5	anr					
Molybdenum	50	.3						
Nickel	40	.4						
Potassium	10000	200						
Selenium	10	2.4	anr					
Silver	10	.7	anr					
Sodium	10000	500	anr					
Strontium	10	.5						
Thallium	10	1.1	anr					
Tin	50	.9						
Titanium	10	.5						
Vanadium	50	.5						
Zinc	20	3	0.20	<20	0.20	<20	0.20	<20

(*) Outside of QC limits
(anr) Analyte not requested

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: FA23189
Account: FPMRNYR - FPM Remediations
Project: HM-AZ PBR Holloman AFB; Alamogordo, NM

File ID: SA040315M1.ICP Date Analyzed: 04/03/15 Methods: SW846 6010C
QC Limits: 90 to 110 % Recovery Run ID: MA12317 Units: ug/l

Time:		07:34			08:02			08:55	
Sample ID:	ICV	ICV1		CCV	CCV1		CCV	CCV2	
Metal	True	Results	% Rec	True	Results	% Rec	True	Results	% Rec
Aluminum	anr								
Antimony	2000	2020	101.0	2000	2080	104.0	2000	2140	107.0
Arsenic	2000	2020	101.0	2000	2090	104.5	2000	2190	109.5
Barium	anr								
Beryllium									
Cadmium	anr								
Calcium									
Chromium	anr								
Cobalt									
Copper	2000	1990	99.5	2000	2010	100.5	2000	2060	103.0
Iron	anr								
Lead	2000	1990	99.5	2000	2000	100.0	2000	2070	103.5
Magnesium									
Manganese	anr								
Molybdenum									
Nickel									
Potassium									
Selenium	anr								
Silver	anr								
Sodium	anr								
Strontium									
Thallium	anr								
Tin									
Titanium									
Vanadium									
Zinc	2000	2020	101.0	2000	2060	103.0	2000	2160	108.0

(*) Outside of QC limits
(anr) Analyte not requested

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: FA23189
Account: FPMRNYR - FPM Remediations
Project: HM-AZ PBR Holloman AFB; Alamogordo, NM

File ID: SA040315M1.ICP Date Analyzed: 04/03/15 Methods: SW846 6010C
QC Limits: 90 to 110 % Recovery Run ID: MA12317 Units: ug/l

Time:		09:24			10:19			11:49	
Sample ID:	CCV	CCV3		CCV	CCV4		CCV	CCV5	
Metal	True	Results	% Rec	True	Results	% Rec	True	Results	% Rec
Aluminum	anr								
Antimony	2000	2020	101.0	2000	1980	99.0	2000	1960	98.0
Arsenic	2000	2020	101.0	2000	1960	98.0	2000	1960	98.0
Barium	anr								
Beryllium									
Cadmium	anr								
Calcium									
Chromium	anr								
Cobalt									
Copper	2000	2030	101.5	2000	1980	99.0	2000	2000	100.0
Iron	anr								
Lead	2000	1990	99.5	2000	1910	95.5	2000	1960	98.0
Magnesium									
Manganese	anr								
Molybdenum									
Nickel									
Potassium									
Selenium	anr								
Silver	anr								
Sodium	anr								
Strontium									
Thallium	anr								
Tin									
Titanium									
Vanadium									
Zinc	2000	2030	101.5	2000	1940	97.0	2000	1970	98.5

(*) Outside of QC limits
(anr) Analyte not requested

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: FA23189
Account: FPMRNYR - FPM Remediations
Project: HM-AZ PBR Holloman AFB; Alamogordo, NM

File ID: SA040315M1.ICP Date Analyzed: 04/03/15 Methods: SW846 6010C
QC Limits: 90 to 110 % Recovery Run ID: MA12317 Units: ug/l

Time:		12:44			13:40			14:07	
Sample ID:	CCV	CCV6		CCV	CCV7		CCV	CCV8	
Metal	True	Results	% Rec	True	Results	% Rec	True	Results	% Rec
Aluminum	anr								
Antimony	2000	1980	99.0	2000	2040	102.0	2000	2000	100.0
Arsenic	2000	1970	98.5	2000	2160	108.0	2000	1990	99.5
Barium	anr								
Beryllium									
Cadmium	anr								
Calcium									
Chromium	anr								
Cobalt									
Copper	2000	2000	100.0	2000	2050	102.5	2000	2020	101.0
Iron	anr								
Lead	2000	1930	96.5	2000	2190	109.5	2000	1990	99.5
Magnesium									
Manganese	anr								
Molybdenum									
Nickel									
Potassium									
Selenium	anr								
Silver	anr								
Sodium	anr								
Strontium									
Thallium	anr								
Tin									
Titanium									
Vanadium									
Zinc	2000	1960	98.0	2000	2190	109.5	2000	2020	101.0

(*) Outside of QC limits
(anr) Analyte not requested

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: FA23189
Account: FPMRNYR - FPM Remediations
Project: HM-AZ PBR Holloman AFB; Alamogordo, NM

File ID: SA040315M1.ICP Date Analyzed: 04/03/15 Methods: SW846 6010C
QC Limits: 90 to 110 % Recovery Run ID: MA12317 Units: ug/l

Time:		16:07			17:03			17:58	
Sample ID:	CCV	CCV9		CCV	CCV10		CCV	CCV11	
Metal	True	Results	% Rec	True	Results	% Rec	True	Results	% Rec
Aluminum	anr								
Antimony	2000	2030	101.5	2000	2070	103.5	2000	2070	103.5
Arsenic	2000	2040	102.0	2000	2130	106.5	2000	2150	107.5
Barium	anr								
Beryllium									
Cadmium	anr								
Calcium									
Chromium	anr								
Cobalt									
Copper	2000	2030	101.5	2000	2080	104.0	2000	2100	105.0
Iron	anr								
Lead	2000	1970	98.5	2000	2090	104.5	2000	2210	110.5*(a
Magnesium									
Manganese	anr								
Molybdenum									
Nickel									
Potassium									
Selenium	anr								
Silver	anr								
Sodium	anr								
Strontium									
Thallium	anr								
Tin									
Titanium									
Vanadium									
Zinc	2000	2020	101.0	2000	2170	108.5	2000	2250	112.5*(b

(*) Outside of QC limits
(anr) Analyte not requested
(a) No samples for Pb_ reported in the area bracketed by this QC.
(b) No samples for Zn_ reported in the area bracketed by this QC.

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: FA23189
Account: FPMRNYR - FPM Remediations
Project: HM-AZ PBR Holloman AFB; Alamogordo, NM

File ID: SA040315M1.ICP Date Analyzed: 04/03/15 Methods: SW846 6010C
QC Limits: 90 to 110 % Recovery Run ID: MA12317 Units: ug/l

Time:		18:52			19:46			20:35	
Sample ID:	CCV	CCV12		CCV	CCV13		CCV	CCV14	
Metal	True	Results	% Rec	True	Results	% Rec	True	Results	% Rec
Aluminum	anr								
Antimony	2000	2010	100.5	2000	2040	102.0	2000	1980	99.0
Arsenic	2000	2090	104.5	2000	2110	105.5	2000	2050	102.5
Barium	anr								
Beryllium									
Cadmium	anr								
Calcium									
Chromium	anr								
Cobalt									
Copper	2000	2090	104.5	2000	2130	106.5	2000	2090	104.5
Iron	anr								
Lead	2000	2230	111.5*(a	2000	2310	115.5*(a	2000	2260	113.0*(a
Magnesium									
Manganese	anr								
Molybdenum									
Nickel									
Potassium									
Selenium	anr								
Silver	anr								
Sodium	anr								
Strontium									
Thallium	anr								
Tin									
Titanium									
Vanadium									
Zinc	2000	2230	111.5*(b	2000	2280	114.0*(b	2000	2230	111.5*(b

(*) Outside of QC limits
(anr) Analyte not requested
(a) No samples for Pb_ reported in the area bracketed by this QC.
(b) No samples for Zn_ reported in the area bracketed by this QC.

HIGH STANDARD CHECK SUMMARY

Login Number: FA23189
Account: FPMRNYR - FPM Remediations
Project: HM-AZ PBR Holloman AFB; Alamogordo, NM

File ID: SA040315M1.ICP Date Analyzed: 04/03/15 Methods: SW846 6010C
QC Limits: 95 to 105 % Recovery Run ID: MA12317 Units: ug/l

Time:		07:30	
Sample ID:	HSTD	HSTD1	
Metal	True	Results	% Rec
Aluminum	anr		
Antimony	4000	4070	101.8
Arsenic	4000	4090	102.3
Barium	anr		
Beryllium			
Cadmium	anr		
Calcium			
Chromium	anr		
Cobalt			
Copper	4000	3960	99.0
Iron	anr		
Lead	4000	4060	101.5
Magnesium			
Manganese	anr		
Molybdenum			
Nickel			
Potassium			
Selenium	anr		
Silver	anr		
Sodium	anr		
Strontium			
Thallium	anr		
Tin			
Titanium			
Vanadium			
Zinc	4000	4020	100.5

(*) Outside of QC limits
(anr) Analyte not requested

LOW CALIBRATION CHECK STANDARDS SUMMARY

Login Number: FA23189
Account: FPMRNYR - FPM Remediations
Project: HM-AZ PBR Holloman AFB; Alamogordo, NM

File ID: SA040315M1.ICP Date Analyzed: 04/03/15 Methods: SW846 6010C
QC Limits: CRI 70-130% CRIA 70-130% Run ID: MA12317 Units: ug/l

Time:			07:43		07:47		20:22	
Sample ID:	CRI	CRIA	CRIA1		CRIA2		CRIA3	
Metal	True	True	Results	% Rec	Results	% Rec	Results	% Rec
Aluminum	400	200						
Antimony	10	5.0	4.3	86.0			4.7	94.0
Arsenic	20	10			10.4	104.0	11.5	115.0
Barium	400	200						
Beryllium	10	5.0						
Cadmium	10	5.0						
Calcium	2000	1000						
Chromium	20	10						
Cobalt	100	50						
Copper	50	25			26.5	106.0	26.7	106.8
Iron	600	300						
Lead	10	5.0			4.8	96.0	4.3	86.0
Magnesium	10000	5000						
Manganese	30	15						
Molybdenum	100	50						
Nickel	80	40						
Potassium	20000	10000						
Selenium	20	10						
Silver	20	10						
Sodium	20000	10000						
Strontium	20	10						
Thallium	20	10						
Tin	100	50						
Titanium	20	10						
Vanadium	100	50						
Zinc	40	20			21.9	109.5	23.3	116.5

(*) Outside of QC limits
(anr) Analyte not requested

INTERFERING ELEMENT CHECK STANDARDS SUMMARY
Part 1 - ICSA and ICSAB Standards

Login Number: FA23189
Account: FPMRNYR - FPM Remediations
Project: HM-AZ PBR Holloman AFB; Alamogordo, NM

File ID: SA040315M1.ICP Date Analyzed: 04/03/15 Methods: SW846 6010C
QC Limits: 80 to 120 % Recovery Run ID: MA12317 Units: ug/l

Time:			07:52		07:58		20:26		20:31	
Sample ID:	ICSA	ICSAB	ICSA1		ICSAB1		ICSA2		ICSAB2	
Metal	True	True	Results	% Rec	Results	% Rec	Results	% Rec	Results	% Rec
Aluminum	500000	500000	500000	100.0	491000	98.2	526000	105.2	512000	102.4
Antimony		1000	0.0		1100	110.0	2.2		1050	105.0
Arsenic		1000	0.50		1100	110.0	-0.60		1080	108.0
Barium		500	0.10		519	103.8	-0.60		542	108.4
Beryllium		500	-0.10		497	99.4	-0.20		518	103.6
Cadmium		1000	0.0		974	97.4	-1.0		967	96.7
Calcium	500000	500000	481000	96.2	473000	94.6	506000	101.2	496000	99.2
Chromium		500	0.90		506	101.2	-0.30		531	106.2
Cobalt		500	0.0		495	99.0	0.0		496	99.2
Copper		500	0.0		538	107.6	-3.9		549	109.8
Iron	200000	200000	188000	94.0	189000	94.5	190000	95.0	189000	94.5
Lead		1000	-0.80		971	97.1	14.5*(a)		1090	109.0
Magnesium	500000	500000	484000	96.8	475000	95.0	515000	103.0	504000	100.8
Manganese		500	-0.80		510	102.0	-1.6		527	105.4
Molybdenum		1000	-0.10		979	97.9	0.20		963	96.3
Nickel		1000	0.0		988	98.8	0.0		1030	103.0
Potassium			482		243		-400		-410	
Selenium		1000	0.0		1060	106.0	0.10		1080	108.0
Silver		1000	0.0		1030	103.0	2.6		1060	106.0
Sodium			371		309		73.2		66.9	
Strontium		1000	0.30		998	99.8	0.90		1080	108.0
Thallium		1000	0.0		979	97.9	-1.3		1040	104.0
Tin		1000	1.0		996	99.6	1.1		1040	104.0
Titanium		1000	0.10		1010	101.0	-0.40		1030	103.0
Vanadium		500	0.0		476	95.2	-0.60		522	104.4
Zinc		1000	2.3		994	99.4	1.4		1080	108.0

(*) Outside of QC limits
(anr) Analyte not requested
(a) Possible instrument baseline drift.

Accutest Laboratories Instrument Runlog
Inorganics Analyses

Login Number: FA23189
Account: FPMRNYR - FPM Remediations
Project: HM-AZ PBR Holloman AFB; Alamogordo, NM

File ID: SB040615M1.ICP Date Analyzed: 04/06/15 Methods: SW846 6010C
Analyst: LM Run ID: MA12320
Parameters: Sb,As,Cu,Pb

Time	Sample Description	Dilution Factor	PS Recov	Comments
09:31	MA12320-STD1	1		STDA
09:36	MA12320-STD2	1		STDB
09:39	MA12320-STD3	1		STDC
09:42	MA12320-STD4	1		STDD
09:45	MA12320-HSTD1	1		
09:51	MA12320-ICV1	1		
09:57	MA12320-ICB1	1		
10:01	MA12320-CRIA1	1		
10:08	MA12320-ICSA1	1		
10:13	MA12320-ICSAB1	1		
10:21	MA12320-CCV1	1		
10:31	MA12320-CCB1	1		
10:41	FA23258-5	10		(sample used for QC only; not part of login FA23189)
10:45	MP28752-D1	10		
10:49	MP28752-S1	10		
10:54	MP28752-S2	10		
10:58	MP28752-PS1	10		
11:02	MP28752-SD1	50		
11:06	ZZZZZZ	10		
11:11	ZZZZZZ	10		
11:15	ZZZZZZ	10		
11:19	MA12320-CCV2	1		
11:23	MA12320-CCB2	1		
11:27	ZZZZZZ	10		
11:32	ZZZZZZ	10		
11:36	ZZZZZZ	10		
11:40	ZZZZZZ	10		
11:44	FA23189-39	10		
11:49	FA23189-41	10		
---------->	Last reportable sample/prep for job FA23189			
11:53	FA23243-19	5		(sample used for QC only; not part of login FA23189)
11:57	MP28754-D1	5		
12:01	MP28754-S1	5		
12:05	MP28754-S2	5		

Accutest Laboratories Instrument Runlog
Inorganics Analyses

Login Number: FA23189
Account: FPMRNYR - FPM Remediations
Project: HM-AZ PBR Holloman AFB; Alamogordo, NM

File ID: SB040615M1.ICP Date Analyzed: 04/06/15 Methods: SW846 6010C
Analyst: LM Run ID: MA12320
Parameters: Sb,As,Cu,Pb

Time	Sample Description	Dilution Factor	PS Recov	Comments
12:09	MA12320-CCV3	1		
12:13	MA12320-CCB3	1		
12:17	MP28754-PS1	5		
12:21	MP28754-SD1	25		
12:25	ZZZZZZ	5		
12:29	ZZZZZZ	5		
12:33	ZZZZZZ	5		
12:37	ZZZZZZ	5		
12:41	ZZZZZZ	5		
12:45	ZZZZZZ	5		
12:49	ZZZZZZ	5		
12:53	ZZZZZZ	5		
12:58	MA12320-CCV4	1		
13:02	MA12320-CCB4	1		
13:06	ZZZZZZ	5		
13:10	ZZZZZZ	5		
13:14	ZZZZZZ	5		
13:18	ZZZZZZ	5		
13:22	ZZZZZZ	5		
13:26	ZZZZZZ	10		
13:30	MP28760-MB1	1		
13:35	MP28760-B1	1		
13:39	FA23132-1	1		(sample used for QC only; not part of login FA23189)
13:43	MP28760-D1	1		
13:47	MA12320-CCV5	1		
13:51	MA12320-CCB5	1		
14:25	MA12320-CCV6	1		
14:31	MA12320-CCB6	1		
14:35	MP28760-SD1	5		
14:40	MP28760-PS1	1		
14:44	MP28760-S1	1		
14:48	MP28760-S2	1		
14:52	ZZZZZZ	1		

Accutest Laboratories Instrument Runlog
Inorganics Analyses

Login Number: FA23189
Account: FPMRNYR - FPM Remediations
Project: HM-AZ PBR Holloman AFB; Alamogordo, NM

File ID: SB040615M1.ICP Date Analyzed: 04/06/15 Methods: SW846 6010C
Analyst: LM Run ID: MA12320
Parameters: Sb,As,Cu,Pb

Time	Sample Description	Dilution Factor	PS Recov	Comments
14:56	ZZZZZZ	1		
15:00	ZZZZZZ	1		
15:04	ZZZZZZ	1		
15:09	ZZZZZZ	1		
15:13	ZZZZZZ	1		
15:17	MA12320-CCV7	1		
15:21	MA12320-CCB7	1		
15:25	ZZZZZZ	1		
15:30	ZZZZZZ	1		
15:34	ZZZZZZ	1		
15:38	ZZZZZZ	1		
15:42	ZZZZZZ	1		
15:46	ZZZZZZ	1		
15:50	ZZZZZZ	1		
15:55	ZZZZZZ	1		
15:59	ZZZZZZ	1		
16:03	ZZZZZZ	1		
16:07	MA12320-CCV8	1		
16:11	MA12320-CCB8	1		
16:15	ZZZZZZ	1		
16:20	ZZZZZZ	1		
16:24	ZZZZZZ	1		
16:28	MP28760-MB2A	1		
16:32	MP28761-MB1	1		
16:36	MP28761-B1	1		
16:40	FA23271-1	1		(sample used for QC only; not part of login FA23189)
16:45	MP28761-D1	1		
16:49	MP28761-SD1	5		
16:53	MP28761-PS1	1		
16:57	MA12320-CCV9	1		
17:01	MA12320-CCB9	1		
17:05	MP28761-S1	1		
17:09	MP28761-S2	1		

Accutest Laboratories Instrument Runlog
Inorganics Analyses

Login Number: FA23189
Account: FPMRNYR - FPM Remediations
Project: HM-AZ PBR Holloman AFB; Alamogordo, NM

File ID: SB040615M1.ICP Date Analyzed: 04/06/15 Methods: SW846 6010C
Analyst: LM Run ID: MA12320
Parameters: Sb,As,Cu,Pb

Time	Sample Description	Dilution Factor	PS Recov	Comments
17:13	ZZZZZZ	1		
17:17	ZZZZZZ	1		
17:21	ZZZZZZ	1		
17:25	ZZZZZZ	1		
17:30	ZZZZZZ	1		
17:34	ZZZZZZ	1		
17:38	ZZZZZZ	1		
17:43	ZZZZZZ	1		
17:47	MA12320-CCV10	1		
17:51	MA12320-CCB10	1		
17:55	ZZZZZZ	1		
18:00	ZZZZZZ	1		
18:04	ZZZZZZ	1		
18:08	ZZZZZZ	5		
18:13	ZZZZZZ	5		
18:17	ZZZZZZ	1		
18:21	ZZZZZZ	1		
18:25	ZZZZZZ	1		
18:30	ZZZZZZ	1		
18:34	ZZZZZZ	1		
18:38	MA12320-CCV11	1		
18:42	MA12320-CCB11	1		
18:46	ZZZZZZ	1		
18:51	MA12320-CRIA2	1		
18:55	MA12320-ICSA2	1		
18:59	MA12320-ICSAB2	1		
19:04	MA12320-CCV12	1		
19:08	MA12320-CCB12	1		

----------> Last reportable CCB for job FA23189
Refer to raw data for calibration curve and standards.

INTERNAL STANDARD SUMMARY

Login Number: FA23189
Account: FPMRNYR - FPM Remediations
Project: HM-AZ PBR Holloman AFB; Alamogordo, NM

File ID: SB040615M1.ICP Date Analyzed: 04/06/15 Methods: SW846 6010C
Analyst: LM Run ID: MA12320
Parameters: Sb,As,Cu,Pb

Time	Sample Description	Istd#1	Istd#2	Istd#3	Istd#4
09:31	MA12320-STD1	7644	46541	4007	3147
09:36	MA12320-STD2	7574	46396	4052	2918
09:39	MA12320-STD3	7274	43952	3962	2630
09:42	MA12320-STD4	6947	42320	3890	2421
09:45	MA12320-HSTD1	6972	42724	3914	2431
09:51	MA12320-ICV1	7150	42769	3903	2584
09:57	MA12320-ICB1	7505 R	46652 R	4034 R	3108 R
10:01	MA12320-CRIA1	7380	45016	3977	2925
10:08	MA12320-ICSA1	6627	39405	3862	2291
10:13	MA12320-ICSAB1	6558	39254	3826	2255
10:21	MA12320-CCV1	7145	43492	3931	2597
10:31	MA12320-CCB1	7497	46579	4076	3117
10:41	FA23258-5	6971	43418	4094	2563
10:45	MP28752-D1	7059	44001	4120	2626
10:49	MP28752-S1	7007	43917	4207	2579
10:54	MP28752-S2	7028	44353	4217	2584
10:58	MP28752-PS1	7021	44587	4276	2612
11:02	MP28752-SD1	7315	46610	4322	2879
11:06	ZZZZZZ	7042	44707	4309	2625
11:11	ZZZZZZ	7061	44710	4294	2612
11:15	ZZZZZZ	7048	44796	4332	2618
11:19	MA12320-CCV2	7201	45958	4307	2656
11:23	MA12320-CCB2	7577	48462	4329	3175
11:27	ZZZZZZ	7033	44354	4286	2598
11:32	ZZZZZZ	6984	43802	4227	2568
11:36	ZZZZZZ	6993	44295	4243	2612
11:40	ZZZZZZ	6919	44118	4277	2615
11:44	FA23189-39	6893	43896	4229	2606
11:49	FA23189-41	6920	44085	4280	2586
11:53	FA23243-19	8551	54084	5085 !	2746
11:57	MP28754-D1	8481	53564	5031	2689
12:01	MP28754-S1	8345	53124	4961	2671
12:05	MP28754-S2	8381	53412	4968	2736

INTERNAL STANDARD SUMMARY

Login Number: FA23189
Account: FPMRNYR - FPM Remediations
Project: HM-AZ PBR Holloman AFB; Alamogordo, NM

File ID: SB040615M1.ICP Date Analyzed: 04/06/15 Methods: SW846 6010C
Analyst: LM Run ID: MA12320
Parameters: Sb,As,Cu,Pb

Time	Sample Description	Istd#1	Istd#2	Istd#3	Istd#4
12:09	MA12320-CCV3	7118	45340	4277	2626
12:13	MA12320-CCB3	7468	48003	4304	3136
12:17	MP28754-PS1	8478	53749	5044 !	2723
12:21	MP28754-SD1	7896	50393	4576	2870
12:25	ZZZZZZ	8472	53894	4914	2953
12:29	ZZZZZZ	8681	54275	5123 !	2642
12:33	ZZZZZZ	8423	53067	4964	2654
12:37	ZZZZZZ	8574	53339	5081 !	2576
12:41	ZZZZZZ	8416	52282	4924	2644
12:45	ZZZZZZ	8601	53008	5001	2720
12:49	ZZZZZZ	8660	54040	4944	2822
12:53	ZZZZZZ	8361	51787	5002	2439
12:58	MA12320-CCV4	7094	44541	4146	2601
13:02	MA12320-CCB4	7461	47045	4209	3106
13:06	ZZZZZZ	8683	54049	5209 !	2440
13:10	ZZZZZZ	8251	51377	4679	2970
13:14	ZZZZZZ	9216	57053	5276 !	2813
13:18	ZZZZZZ	9108	56167	5198 !	2727
13:22	ZZZZZZ	9174	57212	5220 !	2905
13:26	ZZZZZZ	8666	54078	4921	2891
13:30	MP28760-MB1	7520	47697	4205	3118
13:35	MP28760-B1	7237	45119	4164	2732
13:39	FA23132-1	7391	44841	4251	2684
13:43	MP28760-D1	7421	44467	4202	2676
13:47	MA12320-CCV5	7189	43014	4004	2581
13:51	MA12320-CCB5	7559	45160	4016	3080
14:25	MA12320-CCV6	7145	43013	4020	2579
14:31	MA12320-CCB6	7474	45339	4063	3070
14:35	MP28760-SD1	7462	45056	4151	2887
14:40	MP28760-PS1	7332	43845	4142	2631
14:44	MP28760-S1	7300	43192	4094	2555
14:48	MP28760-S2	7304	43676	4108	2561
14:52	ZZZZZZ	7210	43229	4055	2718

INTERNAL STANDARD SUMMARY

Login Number: FA23189
Account: FPMRNYR - FPM Remediations
Project: HM-AZ PBR Holloman AFB; Alamogordo, NM

File ID: SB040615M1.ICP Date Analyzed: 04/06/15 Methods: SW846 6010C
Analyst: LM Run ID: MA12320
Parameters: Sb,As,Cu,Pb

Time	Sample Description	Istd#1	Istd#2	Istd#3	Istd#4
14:56	ZZZZZZ	7378	43497	4007	2811
15:00	ZZZZZZ	7440	43325	3971	2861
15:04	ZZZZZZ	7342	43636	4109	2784
15:09	ZZZZZZ	7325	44013	4083	2802
15:13	ZZZZZZ	7397	43648	3998	2829
15:17	MA12320-CCV7	7219	41875	3890	2570
15:21	MA12320-CCB7	7614	44559	3970	3077
15:25	ZZZZZZ	7127	41341	3967	2597
15:30	ZZZZZZ	7364	42802	3998	2745
15:34	ZZZZZZ	7372	43114	3987	2844
15:38	ZZZZZZ	7415	43394	3989	2872
15:42	ZZZZZZ	7477	44047	3993	2911
15:46	ZZZZZZ	7311	42733	3945	2810
15:50	ZZZZZZ	7438	43472	3955	2887
15:55	ZZZZZZ	7584	43949	4076	2834
15:59	ZZZZZZ	7383	43164	3989	2841
16:03	ZZZZZZ	7353	42486	3934	2705
16:07	MA12320-CCV8	7162	41626	3872	2555
16:11	MA12320-CCB8	7528	43959	3951	3041
16:15	ZZZZZZ	7352	42858	3998	2744
16:20	ZZZZZZ	7630	43894	4095	2701
16:24	ZZZZZZ	7470	43284	4010	2706
16:28	MP28760-MB2A	7587	44268	3934	3055
16:32	MP28761-MB1	7631	44914	3954	3081
16:36	MP28761-B1	7371	42240	3903	2704
16:40	FA23271-1	8323	47587	4308	2911
16:45	MP28761-D1	8240	47468	4276	2937
16:49	MP28761-SD1	7795	44899	4032	3013
16:53	MP28761-PS1	8242	46925	4242	2799
16:57	MA12320-CCV9	7193	41223	3797	2556
17:01	MA12320-CCB9	7543	43214	3869	3037
17:05	MP28761-S1	8029	45915	4266	2679
17:09	MP28761-S2	8070	46064	4232	2680

INTERNAL STANDARD SUMMARY

Login Number: FA23189
Account: FPMRNYR - FPM Remediations
Project: HM-AZ PBR Holloman AFB; Alamogordo, NM

File ID: SB040615M1.ICP Date Analyzed: 04/06/15 Methods: SW846 6010C
Analyst: LM Run ID: MA12320
Parameters: Sb,As,Cu,Pb

Time	Sample Description	Istd#1	Istd#2	Istd#3	Istd#4
17:13	ZZZZZZ	8471	48609	4413	2856
17:17	ZZZZZZ	8178	46774	4271	2827
17:21	ZZZZZZ	6688	39060	4120	1953
17:25	ZZZZZZ	7578	43838	4551	1997
17:30	ZZZZZZ	6858	39600	4060	2031
17:34	ZZZZZZ	7612	44704	4681	1814 !
17:38	ZZZZZZ	7580	44734	4706	1741 !
17:43	ZZZZZZ	6739	39520	4173	1783 !
17:47	MA12320-CCV10	7161	41610	3766	2552
17:51	MA12320-CCB10	7509	43831	3807	3036
17:55	ZZZZZZ	6010	35179	3722	1753 !
18:00	ZZZZZZ	5825	34535	3694	1727 !
18:04	ZZZZZZ	6018	35588	3704	1796 !
18:08	ZZZZZZ	5418	32442	3529	1605 !
18:13	ZZZZZZ	5243	32523	3581	1499 !
18:17	ZZZZZZ	5810	34252	3604	1731 !
18:21	ZZZZZZ	7097	41424	3782	2491
18:25	ZZZZZZ	7188	41978	3827	2504
18:30	ZZZZZZ	5601	33160	3555	1688 !
18:34	ZZZZZZ	7015	41104	3820	2458
18:38	MA12320-CCV11	7147	42180	3790	2557
18:42	MA12320-CCB11	7501	44101	3789	3037
18:46	ZZZZZZ	7157	42071	4083	2242
18:51	MA12320-CRIA2	7378	43348	3769	2884
18:55	MA12320-ICSA2	6576	38128	3667	2244
18:59	MA12320-ICSAB2	6533	37466	3592	2202
19:04	MA12320-CCV12	7122	41538	3683	2543
19:08	MA12320-CCB12	7456	44220	3750	3031

R = Reference for ISTD limits. ! = Outside limits.

LEGEND:

Istd#	Parameter	Limits
Istd#1	Yttrium (2243)	60-125 %
Istd#2	Yttrium (3600)	60-125 %
Istd#3	Yttrium (3710)	60-125 %
Istd#4	Indium	60-125 %

BLANK RESULTS SUMMARY
Part 1 - Initial and Continuing Calibration Blanks

Login Number: FA23189
Account: FPMRNYR - FPM Remediations
Project: HM-AZ PBR Holloman AFB; Alamogordo, NM

File ID: SB040615M1.ICP Date Analyzed: 04/06/15 Methods: SW846 6010C
QC Limits: result < RL Run ID: MA12320 Units: ug/l

Time:			09:57		10:31		11:23		12:13	
Sample ID:			ICB1		CCB1		CCB2		CCB3	
Metal	RL	IDL	raw	final	raw	final	raw	final	raw	final
Aluminum	200	14	anr							
Antimony	6.0	1	-0.10	<6.0	-0.10	<6.0	-0.40	<6.0	-0.40	<6.0
Arsenic	10	1.3	-0.90	<10	0.20	<10	-0.30	<10	-0.40	<10
Barium	200	1	anr							
Beryllium	4.0	.2								
Cadmium	5.0	.2	anr							
Calcium	1000	50								
Chromium	10	1	anr							
Cobalt	50	.2								
Copper	25	1	-0.40	<25	0.20	<25	0.0	<25	-0.10	<25
Iron	300	17	anr							
Lead	5.0	1	0.30	<5.0	0.60	<5.0	1.2	<5.0	0.50	<5.0
Magnesium	5000	35								
Manganese	15	.5	anr							
Molybdenum	50	.3	anr							
Nickel	40	.4	anr							
Potassium	10000	200								
Selenium	10	2.4	anr							
Silver	10	.7	anr							
Sodium	10000	500								
Strontium	10	.5								
Thallium	10	1.1								
Tin	50	.9								
Titanium	10	.5								
Vanadium	50	.5								
Zinc	20	3	anr							

(*) Outside of QC limits
(anr) Analyte not requested

BLANK RESULTS SUMMARY
Part 1 - Initial and Continuing Calibration Blanks

Login Number: FA23189
Account: FPMRNYR - FPM Remediations
Project: HM-AZ PBR Holloman AFB; Alamogordo, NM

File ID: SB040615M1.ICP Date Analyzed: 04/06/15 Methods: SW846 6010C
QC Limits: result < RL Run ID: MA12320 Units: ug/l

Time:			13:02		13:51		14:31		15:21	
Sample ID:			CCB4		CCB5		CCB6		CCB7	
Metal	RL	IDL	raw	final	raw	final	raw	final	raw	final
Aluminum	200	14	anr							
Antimony	6.0	1	0.30	<6.0	0.0	<6.0	2.2	<6.0	1.7	<6.0
Arsenic	10	1.3	-0.60	<10	-0.30	<10	0.20	<10	0.10	<10
Barium	200	1	anr							
Beryllium	4.0	.2								
Cadmium	5.0	.2	anr							
Calcium	1000	50								
Chromium	10	1	anr							
Cobalt	50	.2								
Copper	25	1	0.0	<25	-0.30	<25	0.0	<25	0.20	<25
Iron	300	17	anr							
Lead	5.0	1	1.0	<5.0	0.10	<5.0	-0.20	<5.0	1.0	<5.0
Magnesium	5000	35								
Manganese	15	.5	anr							
Molybdenum	50	.3	anr							
Nickel	40	.4	anr							
Potassium	10000	200								
Selenium	10	2.4	anr							
Silver	10	.7	anr							
Sodium	10000	500								
Strontium	10	.5								
Thallium	10	1.1								
Tin	50	.9								
Titanium	10	.5								
Vanadium	50	.5								
Zinc	20	3	anr							

(*) Outside of QC limits
(anr) Analyte not requested

BLANK RESULTS SUMMARY
Part 1 - Initial and Continuing Calibration Blanks

Login Number: FA23189
Account: FPMRNYR - FPM Remediations
Project: HM-AZ PBR Holloman AFB; Alamogordo, NM

File ID: SB040615M1.ICP Date Analyzed: 04/06/15 Methods: SW846 6010C
QC Limits: result < RL Run ID: MA12320 Units: ug/l

Time:			16:11		17:01		17:51		18:42	
Sample ID:			CCB8		CCB9		CCB10		CCB11	
Metal	RL	IDL	raw	final	raw	final	raw	final	raw	final
Aluminum	200	14	anr							
Antimony	6.0	1	2.4	<6.0	1.9	<6.0	2.5	<6.0	0.80	<6.0
Arsenic	10	1.3	0.80	<10	0.90	<10	0.10	<10	0.40	<10
Barium	200	1	anr							
Beryllium	4.0	.2								
Cadmium	5.0	.2	anr							
Calcium	1000	50								
Chromium	10	1	anr							
Cobalt	50	.2								
Copper	25	1	0.0	<25	-0.20	<25	0.10	<25	0.0	<25
Iron	300	17	anr							
Lead	5.0	1	0.80	<5.0	0.40	<5.0	0.40	<5.0	0.20	<5.0
Magnesium	5000	35								
Manganese	15	.5	anr							
Molybdenum	50	.3	anr							
Nickel	40	.4	anr							
Potassium	10000	200								
Selenium	10	2.4	anr							
Silver	10	.7	anr							
Sodium	10000	500								
Strontium	10	.5								
Thallium	10	1.1								
Tin	50	.9								
Titanium	10	.5								
Vanadium	50	.5								
Zinc	20	3	anr							

(*) Outside of QC limits
(anr) Analyte not requested

BLANK RESULTS SUMMARY
Part 1 - Initial and Continuing Calibration Blanks

Login Number: FA23189
Account: FPMRNYR - FPM Remediations
Project: HM-AZ PBR Holloman AFB; Alamogordo, NM

File ID: SB040615M1.ICP Date Analyzed: 04/06/15 Methods: SW846 6010C
QC Limits: result < RL Run ID: MA12320 Units: ug/l

Time:			19:08	
Sample ID:			CCB12	
Metal	RL	IDL	raw	final
Aluminum	200	14	anr	
Antimony	6.0	1	1.0	<6.0
Arsenic	10	1.3	0.40	<10
Barium	200	1	anr	
Beryllium	4.0	.2		
Cadmium	5.0	.2	anr	
Calcium	1000	50		
Chromium	10	1	anr	
Cobalt	50	.2		
Copper	25	1	-0.10	<25
Iron	300	17	anr	
Lead	5.0	1	-0.20	<5.0
Magnesium	5000	35		
Manganese	15	.5	anr	
Molybdenum	50	.3	anr	
Nickel	40	.4	anr	
Potassium	10000	200		
Selenium	10	2.4	anr	
Silver	10	.7	anr	
Sodium	10000	500		
Strontium	10	.5		
Thallium	10	1.1		
Tin	50	.9		
Titanium	10	.5		
Vanadium	50	.5		
Zinc	20	3	anr	

(*) Outside of QC limits
(anr) Analyte not requested

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: FA23189
Account: FPMRNYR - FPM Remediations
Project: HM-AZ PBR Holloman AFB; Alamogordo, NM

File ID: SB040615M1.ICP Date Analyzed: 04/06/15 Methods: SW846 6010C
QC Limits: 90 to 110 % Recovery Run ID: MA12320 Units: ug/l

Time:		09:51			10:21			11:19	
Sample ID:	ICV	ICV1		CCV	CCV1		CCV	CCV2	
Metal	True	Results	% Rec	True	Results	% Rec	True	Results	% Rec
Aluminum	anr								
Antimony	2000	2050	102.5	2000	2010	100.5	2000	2090	104.5
Arsenic	2000	2050	102.5	2000	2000	100.0	2000	2080	104.0
Barium	anr								
Beryllium									
Cadmium	anr								
Calcium									
Chromium	anr								
Cobalt									
Copper	2000	2040	102.0	2000	2010	100.5	2000	2010	100.5
Iron	anr								
Lead	2000	2040	102.0	2000	1980	99.0	2000	1950	97.5
Magnesium									
Manganese	anr								
Molybdenum	anr								
Nickel	anr								
Potassium									
Selenium	anr								
Silver	anr								
Sodium									
Strontium									
Thallium									
Tin									
Titanium									
Vanadium									
Zinc	anr								

(*) Outside of QC limits
(anr) Analyte not requested

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: FA23189
Account: FPMRNYR - FPM Remediations
Project: HM-AZ PBR Holloman AFB; Alamogordo, NM

File ID: SB040615M1.ICP Date Analyzed: 04/06/15 Methods: SW846 6010C
QC Limits: 90 to 110 % Recovery Run ID: MA12320 Units: ug/l

Time:		12:09			12:58			13:47	
Sample ID:	CCV	CCV3		CCV	CCV4		CCV	CCV5	
Metal	True	Results	% Rec	True	Results	% Rec	True	Results	% Rec
Aluminum	anr								
Antimony	2000	2130	106.5	2000	2120	106.0	2000	2080	104.0
Arsenic	2000	2120	106.0	2000	2100	105.0	2000	2030	101.5
Barium	anr								
Beryllium									
Cadmium	anr								
Calcium									
Chromium	anr								
Cobalt									
Copper	2000	2050	102.5	2000	2080	104.0	2000	2150	107.5
Iron	anr								
Lead	2000	1980	99.0	2000	2000	100.0	2000	2050	102.5
Magnesium									
Manganese	anr								
Molybdenum	anr								
Nickel	anr								
Potassium									
Selenium	anr								
Silver	anr								
Sodium									
Strontium									
Thallium									
Tin									
Titanium									
Vanadium									
Zinc	anr								

(*) Outside of QC limits
(anr) Analyte not requested

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: FA23189
Account: FPMRNYR - FPM Remediations
Project: HM-AZ PBR Holloman AFB; Alamogordo, NM

File ID: SB040615M1.ICP Date Analyzed: 04/06/15 Methods: SW846 6010C
QC Limits: 90 to 110 % Recovery Run ID: MA12320 Units: ug/l

Time:		14:25			15:17			16:07	
Sample ID:	CCV	CCV6		CCV	CCV7		CCV	CCV8	
Metal	True	Results	% Rec	True	Results	% Rec	True	Results	% Rec
Aluminum	anr								
Antimony	2000	1980	99.0	2000	1930	96.5	2000	1950	97.5
Arsenic	2000	1980	99.0	2000	1910	95.5	2000	1930	96.5
Barium	anr								
Beryllium									
Cadmium	anr								
Calcium									
Chromium	anr								
Cobalt									
Copper	2000	1990	99.5	2000	2030	101.5	2000	2040	102.0
Iron	anr								
Lead	2000	1970	98.5	2000	1980	99.0	2000	1990	99.5
Magnesium									
Manganese	anr								
Molybdenum	anr								
Nickel	anr								
Potassium									
Selenium	anr								
Silver	anr								
Sodium									
Strontium									
Thallium									
Tin									
Titanium									
Vanadium									
Zinc	anr								

(*) Outside of QC limits
(anr) Analyte not requested

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: FA23189
Account: FPMRNYR - FPM Remediations
Project: HM-AZ PBR Holloman AFB; Alamogordo, NM

File ID: SB040615M1.ICP Date Analyzed: 04/06/15 Methods: SW846 6010C
QC Limits: 90 to 110 % Recovery Run ID: MA12320 Units: ug/l

Time:		16:57			17:47			18:38	
Sample ID:	CCV	CCV9		CCV	CCV10		CCV	CCV11	
Metal	True	Results	% Rec	True	Results	% Rec	True	Results	% Rec
Aluminum	anr								
Antimony	2000	1930	96.5	2000	1950	97.5	2000	1970	98.5
Arsenic	2000	1910	95.5	2000	1930	96.5	2000	1950	97.5
Barium	anr								
Beryllium									
Cadmium	anr								
Calcium									
Chromium	anr								
Cobalt									
Copper	2000	2060	103.0	2000	2050	102.5	2000	2040	102.0
Iron	anr								
Lead	2000	1990	99.5	2000	2000	100.0	2000	2000	100.0
Magnesium									
Manganese	anr								
Molybdenum	anr								
Nickel	anr								
Potassium									
Selenium	anr								
Silver	anr								
Sodium									
Strontium									
Thallium									
Tin									
Titanium									
Vanadium									
Zinc	anr								

(*) Outside of QC limits
(anr) Analyte not requested

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: FA23189
Account: FPMRNYR - FPM Remediations
Project: HM-AZ PBR Holloman AFB; Alamogordo, NM

File ID: SB040615M1.ICP Date Analyzed: 04/06/15 Methods: SW846 6010C
QC Limits: 90 to 110 % Recovery Run ID: MA12320 Units: ug/l

Time:		19:04	
Sample ID:	CCV	CCV12	
Metal	True	Results	% Rec
Aluminum	anr		
Antimony	2000	1960	98.0
Arsenic	2000	1940	97.0
Barium	anr		
Beryllium			
Cadmium	anr		
Calcium			
Chromium	anr		
Cobalt			
Copper	2000	2050	102.5
Iron	anr		
Lead	2000	1990	99.5
Magnesium			
Manganese	anr		
Molybdenum	anr		
Nickel	anr		
Potassium			
Selenium	anr		
Silver	anr		
Sodium			
Strontium			
Thallium			
Tin			
Titanium			
Vanadium			
Zinc	anr		

(*) Outside of QC limits
(anr) Analyte not requested

HIGH STANDARD CHECK SUMMARY

Login Number: FA23189
Account: FPMRNYR - FPM Remediations
Project: HM-AZ PBR Holloman AFB; Alamogordo, NM

File ID: SB040615M1.ICP Date Analyzed: 04/06/15 Methods: SW846 6010C
QC Limits: 95 to 105 % Recovery Run ID: MA12320 Units: ug/l

Time:		09:45	
Sample ID:	HSTD	HSTD1	
Metal	True	Results	% Rec
Aluminum	anr		
Antimony	4000	4020	100.5
Arsenic	4000	4010	100.3
Barium	anr		
Beryllium			
Cadmium	anr		
Calcium			
Chromium	anr		
Cobalt			
Copper	4000	3990	99.8
Iron	anr		
Lead	4000	4040	101.0
Magnesium			
Manganese	anr		
Molybdenum	anr		
Nickel	anr		
Potassium			
Selenium	anr		
Silver	anr		
Sodium			
Strontium			
Thallium			
Tin			
Titanium			
Vanadium			
Zinc	anr		

(*) Outside of QC limits
(anr) Analyte not requested

LOW CALIBRATION CHECK STANDARDS SUMMARY

Login Number: FA23189
Account: FPMRNYR - FPM Remediations
Project: HM-AZ PBR Holloman AFB; Alamogordo, NM

File ID: SB040615M1.ICP Date Analyzed: 04/06/15 Methods: SW846 6010C
QC Limits: CRI 70-130% CRIA 70-130% Run ID: MA12320 Units: ug/l

Time:			10:01		18:51	
Sample ID:	CRI	CRIA	CRIA1		CRIA2	
Metal	True	True	Results	% Rec	Results	% Rec
Aluminum	400	200	anr			
Antimony	10	5.0	4.8	96.0	5.0	100.0
Arsenic	20	10	10.3	103.0	10.2	102.0
Barium	400	200	anr			
Beryllium	10	5.0				
Cadmium	10	5.0	anr			
Calcium	2000	1000				
Chromium	20	10	anr			
Cobalt	100	50				
Copper	50	25	27.0	108.0	27.4	109.6
Iron	600	300	anr			
Lead	10	5.0	5.4	108.0	5.0	100.0
Magnesium	10000	5000				
Manganese	30	15	anr			
Molybdenum	100	50	anr			
Nickel	80	40	anr			
Potassium	20000	10000				
Selenium	20	10	anr			
Silver	20	10	anr			
Sodium	20000	10000				
Strontium	20	10				
Thallium	20	10				
Tin	100	50				
Titanium	20	10				
Vanadium	100	50				
Zinc	40	20	anr			

(*) Outside of QC limits
(anr) Analyte not requested

INTERFERING ELEMENT CHECK STANDARDS SUMMARY
Part 1 - ICSA and ICSAB Standards

Login Number: FA23189
Account: FPMRNYR - FPM Remediations
Project: HM-AZ PBR Holloman AFB; Alamogordo, NM

File ID: SB040615M1.ICP Date Analyzed: 04/06/15 Methods: SW846 6010C
QC Limits: 80 to 120 % Recovery Run ID: MA12320 Units: ug/l

Time:			10:08		10:13		18:55		18:59	
Sample ID:	ICSA	ICSAB	ICSA1		ICSAB1		ICSA2		ICSAB2	
Metal	True	True	Results	% Rec	Results	% Rec	Results	% Rec	Results	% Rec
Aluminum	500000	500000	509000	101.8	495000	99.0	516000	103.2	521000	104.2
Antimony		1000	-0.20		1080	108.0	-0.80		1050	105.0
Arsenic		1000	-1.6		1070	107.0	1.8		1030	103.0
Barium		500	0.10		519	103.8	0.40		524	104.8
Beryllium		500	0.0		519	103.8	0.0		513	102.6
Cadmium		1000	0.60		939	93.9	0.40		928	92.8
Calcium	500000	500000	478000	95.6	479000	95.8	481000	96.2	492000	98.4
Chromium		500	0.40		492	98.4	0.80		512	102.4
Cobalt		500	-0.50		483	96.6	-0.20		476	95.2
Copper		500	-0.60		546	109.2	-1.2		555	111.0
Iron	200000	200000	186000	93.0	189000	94.5	179000	89.5	185000	92.5
Lead		1000	0.20		970	97.0	-13* (a)		956	95.6
Magnesium	500000	500000	493000	98.6	493000	98.6	472000	94.4	476000	95.2
Manganese		500	-0.10		504	100.8	-0.10		517	103.4
Molybdenum		1000	0.0		964	96.4	2.0		946	94.6
Nickel		1000	0.40		974	97.4	2.4		941	94.1
Potassium			27.1		18.4		90.4		45.6	
Selenium		1000	1.2		1040	104.0	1.3		1010	101.0
Silver		1000	0.50		976	97.6	-0.50		984	98.4
Sodium			173		186		187		153	
Strontium		1000	-0.10		1020	102.0	0.0		1060	106.0
Thallium		1000	-1.3		968	96.8	-1.2		965	96.5
Tin		1000	0.10		974	97.4	0.90		915	91.5
Titanium		1000	0.40		1020	102.0	1.1		1050	105.0
Vanadium		500	-0.20		485	97.0	0.40		481	96.2
Zinc		1000	-2.3		967	96.7	-2.5		949	94.9

(*) Outside of QC limits
(anr) Analyte not requested
(a) Possible instrument baseline drift.

BLANK RESULTS SUMMARY
Part 2 - Method Blanks

Login Number: FA23189
Account: FPMRNYR - FPM Remediations
Project: HM-AZ PBR Holloman AFB; Alamogordo, NM

QC Batch ID: MP28731
Matrix Type: AQUEOUS

Methods: SW846 6010C
Units: ug/l

Prep Date: 03/31/15

Metal	RL	IDL	MDL	MB raw	final
Aluminum	200	14	14		
Antimony	6.0	1	1	0.20	<6.0
Arsenic	10	1.3	1.3	-0.40	<10
Barium	200	1	1		
Beryllium	4.0	.2	.2		
Cadmium	5.0	.2	.2		
Calcium	1000	50	50		
Chromium	10	1	1		
Cobalt	50	.2	.2		
Copper	25	1	1	0.0	<25
Iron	300	17	17		
Lead	5.0	1	1.1	0.10	<5.0
Magnesium	5000	35	35		
Manganese	15	.5	1		
Molybdenum	50	.3	.3		
Nickel	40	.4	.4		
Potassium	10000	200	200		
Selenium	10	2.4	2.9		
Silver	10	.7	.7		
Sodium	10000	500	500		
Strontium	10	.5	.5		
Thallium	10	1.1	1.4		
Tin	50	.9	1		
Titanium	10	.5	1		
Vanadium	50	.5	.6		
Zinc	20	3	4.4	0.90	<20

Associated samples MP28731: FA23189-43

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: FA23189
Account: FPMRNYR - FPM Remediations
Project: HM-AZ PBR Holloman AFB; Alamogordo, NM

QC Batch ID: MP28731
Matrix Type: AQUEOUS

Methods: SW846 6010C
Units: ug/l

Prep Date: 03/31/15 03/31/15

Metal	FA23021-5 Original	DUP	RPD	QC Limits	FA23021-5 Original	MS	Spikelot MPFLICP2	% Rec	QC Limits
Aluminum	anr								
Antimony	0.0	0.0	NC	0-20	0.0	505	500	101.0	80-120
Arsenic	28.0	28.5	1.8	0-20	28.0	2050	2000	101.1	80-120
Barium	anr								
Beryllium	anr								
Cadmium	anr								
Calcium	anr								
Chromium	anr								
Cobalt	anr								
Copper	0.0	0.0	NC	0-20	0.0	262	250	104.8	80-120
Iron	anr								
Lead	0.0	0.0	NC	0-20	0.0	495	500	99.0	80-120
Magnesium	anr								
Manganese	anr								
Molybdenum									
Nickel	anr								
Potassium	anr								
Selenium	anr								
Silver	anr								
Sodium	anr								
Strontium									
Thallium	anr								
Tin									
Titanium									
Vanadium	anr								
Zinc	10.3	9.7	6.0	0-20	10.3	524	500	102.7	80-120

Associated samples MP28731: FA23189-43

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits
(anr) Analyte not requested

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: FA23189
Account: FPMRNYR - FPM Remediations
Project: HM-AZ PBR Holloman AFB; Alamogordo, NM

QC Batch ID: MP28731
Matrix Type: AQUEOUS

Methods: SW846 6010C
Units: ug/l

Prep Date: 03/31/15

Metal	FA23021-5 Original	MSD	Spikelot MPFLICP2	% Rec	MSD RPD	QC Limit
Aluminum	anr					
Antimony	0.0	507	500	101.4	0.4	20
Arsenic	28.0	2050	2000	101.1	0.0	20
Barium	anr					
Beryllium	anr					
Cadmium	anr					
Calcium	anr					
Chromium	anr					
Cobalt	anr					
Copper	0.0	265	250	106.0	1.1	20
Iron	anr					
Lead	0.0	499	500	99.8	0.8	20
Magnesium	anr					
Manganese	anr					
Molybdenum						
Nickel	anr					
Potassium	anr					
Selenium	anr					
Silver	anr					
Sodium	anr					
Strontium						
Thallium	anr					
Tin						
Titanium						
Vanadium	anr					
Zinc	10.3	528	500	103.5	0.8	20

Associated samples MP28731: FA23189-43

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits
(anr) Analyte not requested

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: FA23189
Account: FPMRNYR - FPM Remediations
Project: HM-AZ PBR Holloman AFB; Alamogordo, NM

QC Batch ID: MP28731
Matrix Type: AQUEOUS

Methods: SW846 6010C
Units: ug/l

Prep Date: 03/31/15

Metal	BSP Result	Spikelot MPFLICP2	% Rec	QC Limits
Aluminum	anr			
Antimony	514	500	102.8	80-120
Arsenic	2060	2000	103.0	80-120
Barium	anr			
Beryllium	anr			
Cadmium	anr			
Calcium	anr			
Chromium	anr			
Cobalt	anr			
Copper	262	250	104.8	80-120
Iron	anr			
Lead	494	500	98.8	80-120
Magnesium	anr			
Manganese	anr			
Molybdenum				
Nickel	anr			
Potassium	anr			
Selenium	anr			
Silver	anr			
Sodium	anr			
Strontium				
Thallium	anr			
Tin				
Titanium				
Vanadium	anr			
Zinc	519	500	103.8	80-120

Associated samples MP28731: FA23189-43

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

SERIAL DILUTION RESULTS SUMMARY

Login Number: FA23189
Account: FPMRNYR - FPM Remediations
Project: HM-AZ PBR Holloman AFB; Alamogordo, NM

QC Batch ID: MP28731
Matrix Type: AQUEOUS

Methods: SW846 6010C
Units: ug/l

Prep Date: 03/31/15

Metal	FA23021-5 Original	SDL 1:5	%DIF	QC Limits
Aluminum	anr			
Antimony	0.00	0.00	NC	0-10
Arsenic	28.0	32.1	14.6 (a)	0-10
Barium	anr			
Beryllium	anr			
Cadmium	anr			
Calcium	anr			
Chromium	anr			
Cobalt	anr			
Copper	0.00	0.00	NC	0-10
Iron	anr			
Lead	0.00	0.00	NC	0-10
Magnesium	anr			
Manganese	anr			
Molybdenum				
Nickel	anr			
Potassium	anr			
Selenium	anr			
Silver	anr			
Sodium	anr			
Strontium				
Thallium	anr			
Tin				
Titanium				
Vanadium	anr			
Zinc	10.3	0.00	100.0(a)	0-10

Associated samples MP28731: FA23189-43

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested
(a) Percent difference acceptable due to low initial sample concentration (< 50 times IDL).

POST DIGESTATE SPIKE SUMMARY

Login Number: FA23189
Account: FPMRNYR - FPM Remediations
Project: HM-AZ PBR Holloman AFB; Alamogordo, NM

QC Batch ID: MP28731
Matrix Type: AQUEOUS

Methods: SW846 6010C
Units: ug/l

Prep Date: 03/31/15

Metal	Sample ml	Final ml	FA23021-5 Raw	Corr.**	PS ug/l	Spike ml	Spike ug/ml	Spike ug/l	% Rec	QC Limits
Aluminum										
Antimony	9.8	10			104.9	0.2	5	100	104.9	80-120
Arsenic	9.8	10	28	27.44	133	0.2	5	100	105.6	80-120
Barium										
Beryllium										
Cadmium										
Calcium										
Chromium										
Cobalt										
Copper	9.8	10			106.4	0.2	5	100	106.4	80-120
Iron										
Lead	9.8	10			46.7	0.2	2.5	50	93.4	80-120
Magnesium										
Manganese										
Molybdenum										
Nickel										
Potassium										
Selenium										
Silver										
Sodium										
Strontium										
Thallium										
Tin										
Titanium										
Vanadium										
Zinc	9.8	10	10.3	10.094	273.1	0.2	12.5	250	105.2	80-120

Associated samples MP28731: FA23189-43

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(**) Corr. sample result = Raw * (sample volume / final volume)
(anr) Analyte not requested

BLANK RESULTS SUMMARY
Part 2 - Method Blanks

Login Number: FA23189
Account: FPMRNYR - FPM Remediations
Project: HM-AZ PBR Holloman AFB; Alamogordo, NM

QC Batch ID: MP28734
Matrix Type: SOLID

Methods: SW846 6010C
Units: mg/kg

Prep Date: 03/31/15

Metal	RL	IDL	MDL	MB raw	final
Aluminum	10	.7	1.8		
Antimony	1.0	.05	.065	0.0	<1.0
Arsenic	0.50	.065	.1	-0.050	<0.50
Barium	10	.05	.05		
Beryllium	0.25	.01	.025		
Cadmium	0.20	.01	.025		
Calcium	250	2.5	2.5		
Chromium	0.50	.05	.05		
Cobalt	2.5	.01	.025		
Copper	1.3	.05	.05	0.0050	<1.3
Iron	15	.85	.85		
Lead	1.0	.05	.05	0.020	<1.0
Magnesium	250	1.8	1.8		
Manganese	0.75	.025	.025		
Molybdenum	2.5	.015	.025		
Nickel	2.0	.02	.025		
Potassium	500	10	10		
Selenium	1.0	.12	.12		
Silver	0.50	.035	.041		
Sodium	500	25	25		
Strontium	0.50	.025	.025		
Thallium	0.50	.055	.055		
Tin	2.5	.045	.045		
Titanium	0.50	.025	.025		
Vanadium	2.5	.025	.025		
Zinc	1.0	.15	.15	0.070	<1.0

Associated samples MP28734: FA23189-1, FA23189-3, FA23189-5, FA23189-7, FA23189-9, FA23189-11, FA23189-13, FA23189-14, FA23189-16, FA23189-18, FA23189-20, FA23189-22, FA23189-24, FA23189-25, FA23189-27, FA23189-29, FA23189-31, FA23189-33, FA23189-35, FA23189-37

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: FA23189
Account: FPMRNYR - FPM Remediations
Project: HM-AZ PBR Holloman AFB; Alamogordo, NM

QC Batch ID: MP28734 Methods: SW846 6010C
Matrix Type: SOLID Units: mg/kg

Prep Date:			03/31/15					03/31/15	
Metal	FA23189-20 Original	DUP	RPD	QC Limits	FA23189-20 Original	MS	Spikelot MPFLICP2	% Rec	QC Limits
Aluminum									
Antimony	0.19	0.0 (a)	0.0	0-20	0.19	8.8 (a)	27.6	31.9N(b)	80-120
Arsenic	2.4	2.2	4.4	0-20	2.4	117	110	103.8	80-120
Barium									
Beryllium									
Cadmium									
Calcium									
Chromium									
Cobalt									
Copper	4.5	4.3	4.5	0-20	4.5	18.2	13.8	99.2	80-120
Iron									
Lead	1.7	1.4 (a)	19.4	0-20	1.7	29.2 (a)	27.6	99.6	80-120
Magnesium									
Manganese									
Molybdenum									
Nickel									
Potassium									
Selenium									
Silver									
Sodium									
Strontium									
Thallium									
Tin									
Titanium									
Vanadium									
Zinc	11.5	14.7 (a)	18.0	0-20	11.5	45.2 (a)	27.6	99.9	80-120

Associated samples MP28734: FA23189-1, FA23189-3, FA23189-5, FA23189-7, FA23189-9, FA23189-11, FA23189-13, FA23189-14, FA23189-16, FA23189-18, FA23189-20, FA23189-22, FA23189-24, FA23189-25, FA23189-27, FA23189-29, FA23189-31, FA23189-33, FA23189-35, FA23189-37

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits
(anr) Analyte not requested
(a) Elevated reporting limit(s) due to matrix interference.
(b) Spike recovery indicates possible matrix interference and/or sample non-homogeneity.

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: FA23189
Account: FPMRNYR - FPM Remediations
Project: HM-AZ PBR Holloman AFB; Alamogordo, NM

QC Batch ID: MP28734 Methods: SW846 6010C
Matrix Type: SOLID Units: mg/kg

Prep Date: 03/31/15

Metal	FA23189-20 Original	MSD	Spikelot MPFLICP2	% Rec	MSD RPD	QC Limit
Aluminum						
Antimony	0.19	11.5 (a)	31.5	36.5N(b)	26.6 (c)	20
Arsenic	2.4	138	126	107.7	16.5	20
Barium						
Beryllium						
Cadmium						
Calcium						
Chromium						
Cobalt						
Copper	4.5	20.2	15.7	99.7	10.4	20
Iron						
Lead	1.7	30.7 (a)	31.5	92.1	5.0	20
Magnesium						
Manganese						
Molybdenum						
Nickel						
Potassium						
Selenium						
Silver						
Sodium						
Strontium						
Thallium						
Tin						
Titanium						
Vanadium						
Zinc	11.5	45.5 (a)	31.5	88.6	0.7	20

Associated samples MP28734: FA23189-1, FA23189-3, FA23189-5, FA23189-7, FA23189-9, FA23189-11, FA23189-13, FA23189-14, FA23189-16, FA23189-18, FA23189-20, FA23189-22, FA23189-24, FA23189-25, FA23189-27, FA23189-29, FA23189-31, FA23189-33, FA23189-35, FA23189-37

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits
(anr) Analyte not requested
(a) Elevated reporting limit(s) due to matrix interference.
(b) Spike recovery indicates possible matrix interference and/or sample non-homogeneity.
(c) High RPD due to possible sample non-homogeneity.

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: FA23189
Account: FPMRNYR - FPM Remediations
Project: HM-AZ PBR Holloman AFB; Alamogordo, NM

QC Batch ID: MP28734
Matrix Type: SOLID

Methods: SW846 6010C
Units: mg/kg

Prep Date: 03/31/15

Metal	BSP Result	Spikelot MPFLICP2	% Rec	QC Limits
Aluminum				
Antimony	25.6	25	102.4	80-120
Arsenic	103	100	103.0	80-120
Barium				
Beryllium				
Cadmium				
Calcium				
Chromium				
Cobalt				
Copper	13.5	12.5	108.0	80-120
Iron				
Lead	24.3	25	97.2	80-120
Magnesium				
Manganese				
Molybdenum				
Nickel				
Potassium				
Selenium				
Silver				
Sodium				
Strontium				
Thallium				
Tin				
Titanium				
Vanadium				
Zinc	25.5	25	102.0	80-120

Associated samples MP28734: FA23189-1, FA23189-3, FA23189-5, FA23189-7, FA23189-9, FA23189-11, FA23189-13, FA23189-14, FA23189-16, FA23189-18, FA23189-20, FA23189-22, FA23189-24, FA23189-25, FA23189-27, FA23189-29, FA23189-31, FA23189-33, FA23189-35, FA23189-37

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

SERIAL DILUTION RESULTS SUMMARY

Login Number: FA23189
Account: FPMRNYR - FPM Remediations
Project: HM-AZ PBR Holloman AFB; Alamogordo, NM

QC Batch ID: MP28734
Matrix Type: SOLID

Methods: SW846 6010C
Units: ug/l

Prep Date: 03/31/15

Metal	FA23189-20 Original	SDL 1:5	%DIF	QC Limits
Aluminum				
Antimony	3.70	0.00	NC	0-10
Arsenic	47.2	46.4	3.1	0-10
Barium				
Beryllium				
Cadmium				
Calcium				
Chromium				
Cobalt				
Copper	87.2	107	22.4*(a)	0-10
Iron				
Lead	32.4	0.00	100.0(b)	0-10
Magnesium				
Manganese				
Molybdenum				
Nickel				
Potassium				
Selenium				
Silver				
Sodium				
Strontium				
Thallium				
Tin				
Titanium				
Vanadium				
Zinc	225	339	1.4	0-10

Associated samples MP28734: FA23189-1, FA23189-3, FA23189-5, FA23189-7, FA23189-9, FA23189-11, FA23189-13, FA23189-14, FA23189-16, FA23189-18, FA23189-20, FA23189-22, FA23189-24, FA23189-25, FA23189-27, FA23189-29, FA23189-31, FA23189-33, FA23189-35, FA23189-37

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested
(a) Serial dilution indicates possible matrix interference.
(b) Percent difference acceptable due to low initial sample concentration (< 50 times IDL).

POST DIGESTATE SPIKE SUMMARY

Login Number: FA23189
Account: FPMRNYR - FPM Remediations
Project: HM-AZ PBR Holloman AFB; Alamogordo, NM

QC Batch ID: MP28734
Matrix Type: SOLID

Methods: SW846 6010C
Units: ug/l

Prep Date: 03/31/15

Metal	Sample ml	Final ml	FA23189-20 Raw	Corr.**	PS ug/l	Spike ml	Spike ug/ml	Spike ug/l	% Rec	QC Limits
Aluminum										
Antimony	9.8	10	3.7		112.5	0.2	5	100	112.5	80-120
Arsenic	9.8	10	47.2	44.1	158.9	0.2	5	100	114.8	80-120
Barium										
Beryllium										
Cadmium										
Calcium										
Chromium										
Cobalt										
Copper	9.8	10	87.2	85.456	190.2	0.2	5	100	104.7	80-120
Iron										
Lead	9.8	10	32.4	31.752	81.6	0.2	2.5	50	99.7	80-120
Magnesium										
Manganese										
Molybdenum										
Nickel										
Potassium										
Selenium										
Silver										
Sodium										
Strontium										
Thallium										
Tin										
Titanium										
Vanadium										
Zinc	9.8	10	224.8	336.532	620.6	0.2	12.5	250	113.6	80-120

Associated samples MP28734: FA23189-1, FA23189-3, FA23189-5, FA23189-7, FA23189-9, FA23189-11, FA23189-13, FA23189-14, FA23189-16, FA23189-18, FA23189-20, FA23189-22, FA23189-24, FA23189-25, FA23189-27, FA23189-29, FA23189-31, FA23189-33, FA23189-35, FA23189-37

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(**) Corr. sample result = Raw * (sample volume / final volume)
(anr) Analyte not requested

BLANK RESULTS SUMMARY
Part 2 - Method Blanks

Login Number: FA23189
Account: FPMRNYR - FPM Remediations
Project: HM-AZ PBR Holloman AFB; Alamogordo, NM

QC Batch ID: MP28752
Matrix Type: SOLID

Methods: SW846 6010C
Units: mg/kg

Prep Date: 04/03/15

Metal	RL	IDL	MDL	MB raw	final
Aluminum	10	.7	1.8		
Antimony	1.0	.05	.065	-0.080	<1.0
Arsenic	0.50	.065	.1	-0.035	<0.50
Barium	10	.05	.05		
Beryllium	0.25	.01	.025		
Cadmium	0.20	.01	.025		
Calcium	250	2.5	2.5		
Chromium	0.50	.05	.05		
Cobalt	2.5	.01	.025		
Copper	1.3	.05	.05	0.025	<1.3
Iron	15	.85	.85		
Lead	1.0	.05	.05	-0.015	<1.0
Magnesium	250	1.8	1.8		
Manganese	0.75	.025	.025		
Molybdenum	2.5	.015	.025		
Nickel	2.0	.02	.025		
Potassium	500	10	10		
Selenium	1.0	.12	.12		
Silver	0.50	.035	.041		
Sodium	500	25	25		
Strontium	0.50	.025	.025		
Thallium	0.50	.055	.055		
Tin	2.5	.045	.045		
Titanium	0.50	.025	.025		
Vanadium	2.5	.025	.025		
Zinc	1.0	.15	.15		

Associated samples MP28752: FA23189-39, FA23189-41

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: FA23189
Account: FPMRNYR - FPM Remediations
Project: HM-AZ PBR Holloman AFB; Alamogordo, NM

QC Batch ID: MP28752
Matrix Type: SOLID

Methods: SW846 6010C
Units: mg/kg

Prep Date:			04/03/15					04/03/15	
Metal	FA23258-5 Original	DUP	RPD	QC Limits	FA23258-5 Original	MS	Spikelot MPFLICP2	% Rec	QC Limits
Aluminum									
Antimony	0.0	0.0 (a)	NC	0-20	0.0	5.5 (a)	23.7	23.2N(c)	80-120
Arsenic	0.91	0.0 (a)	200.0(b)	0-20	0.91	98.1 (a)	95	102.3	80-120
Barium									
Beryllium									
Cadmium									
Calcium									
Chromium									
Cobalt									
Copper	3.2	2.9 (a)	9.8	0-20	3.2	15.0 (a)	11.9	99.4	80-120
Iron									
Lead	2.6	2.2 (a)	16.7	0-20	2.6	24.4 (a)	23.7	91.8	80-120
Magnesium									
Manganese									
Molybdenum									
Nickel									
Potassium									
Selenium									
Silver									
Sodium									
Strontium									
Thallium									
Tin									
Titanium									
Vanadium									
Zinc	anr								

Associated samples MP28752: FA23189-39, FA23189-41

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits
(anr) Analyte not requested
(a) Elevated reporting limit(s) due to matrix interference.
(b) RPD acceptable due to low duplicate and sample concentrations.
(c) Spike recovery indicates possible matrix interference and/or sample non-homogeneity.

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: FA23189
Account: FPMRNYR - FPM Remediations
Project: HM-AZ PBR Holloman AFB; Alamogordo, NM

QC Batch ID: MP28752
Matrix Type: SOLID

Methods: SW846 6010C
Units: mg/kg

Prep Date: 04/03/15

Metal	FA23258-5 Original	MSD	Spikelot MPFLICP2	% Rec	MSD RPD	QC Limit
Aluminum						
Antimony	0.0	5.6 (a)	23.6	23.8N(b)	1.8	20
Arsenic	0.91	99.5 (a)	94.2	104.6	1.4	20
Barium						
Beryllium						
Cadmium						
Calcium						
Chromium						
Cobalt						
Copper	3.2	15.3 (a)	11.8	102.7	2.0	20
Iron						
Lead	2.6	24.2 (a)	23.6	91.7	0.8	20
Magnesium						
Manganese						
Molybdenum						
Nickel						
Potassium						
Selenium						
Silver						
Sodium						
Strontium						
Thallium						
Tin						
Titanium						
Vanadium						
Zinc	anr					

Associated samples MP28752: FA23189-39, FA23189-41

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits
(anr) Analyte not requested
(a) Elevated reporting limit(s) due to matrix interference.
(b) Spike recovery indicates possible matrix interference and/or sample non-homogeneity.

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: FA23189
Account: FPMRNYR - FPM Remediations
Project: HM-AZ PBR Holloman AFB; Alamogordo, NM

QC Batch ID: MP28752
Matrix Type: SOLID

Methods: SW846 6010C
Units: mg/kg

Prep Date: 04/03/15

Metal	BSP Result	Spikelot MPFLICP2	% Rec	QC Limits
Aluminum				
Antimony	24.9	25	99.6	80-120
Arsenic	101	100	101.0	80-120
Barium				
Beryllium				
Cadmium				
Calcium				
Chromium				
Cobalt				
Copper	13.1	12.5	104.8	80-120
Iron				
Lead	24.2	25	96.8	80-120
Magnesium				
Manganese				
Molybdenum				
Nickel				
Potassium				
Selenium				
Silver				
Sodium				
Strontium				
Thallium				
Tin				
Titanium				
Vanadium				
Zinc	anr			

Associated samples MP28752: FA23189-39, FA23189-41

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

SERIAL DILUTION RESULTS SUMMARY

Login Number: FA23189
Account: FPMRNYR - FPM Remediations
Project: HM-AZ PBR Holloman AFB; Alamogordo, NM

QC Batch ID: MP28752
Matrix Type: SOLID

Methods: SW846 6010C
Units: ug/l

Prep Date: 04/03/15

Metal	FA23258-5 Original	SDL 10:50%	DIF	QC Limits
Aluminum				
Antimony	0.00	0.00	NC	0-10
Arsenic	18.5	0.00	100.0(a)	0-10
Barium				
Beryllium				
Cadmium				
Calcium				
Chromium				
Cobalt				
Copper	64.8	67.7	4.5	0-10
Iron				
Lead	52.5	109	106.7(a)	0-10
Magnesium				
Manganese				
Molybdenum				
Nickel				
Potassium				
Selenium				
Silver				
Sodium				
Strontium				
Thallium				
Tin				
Titanium				
Vanadium				
Zinc	anr			

Associated samples MP28752: FA23189-39, FA23189-41

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested
(a) Percent difference acceptable due to low initial sample concentration (< 50 times IDL).

POST DIGESTATE SPIKE SUMMARY

Login Number: FA23189
Account: FPMRNYR - FPM Remediations
Project: HM-AZ PBR Holloman AFB; Alamogordo, NM

QC Batch ID: MP28752
Matrix Type: SOLID

Methods: SW846 6010C
Units: ug/l

Prep Date: 04/03/15

Metal	Sample ml	Final ml	FA23258-5 Raw	Corr.**	PS ug/l	Spike ml	Spike ug/ml	Spike ug/l	% Rec	QC Limits
Aluminum										
Antimony	9.8	10			87.6	0.2	5	100	87.6	80-120
Arsenic	9.8	10	18.5	18.13	128.5	0.2	5	100	110.4	80-120
Barium										
Beryllium										
Cadmium										
Calcium										
Chromium										
Cobalt										
Copper	9.8	10	64.8	63.504	171.9	0.2	5	100	108.4	80-120
Iron										
Lead	9.8	10	52.5	51.45	99.7	0.2	2.5	50	96.5	80-120
Magnesium										
Manganese										
Molybdenum										
Nickel										
Potassium										
Selenium										
Silver										
Sodium										
Strontium										
Thallium										
Tin										
Titanium										
Vanadium										
Zinc										

Associated samples MP28752: FA23189-39, FA23189-41

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(**) Corr. sample result = Raw * (sample volume / final volume)
(anr) Analyte not requested

Instrument Detection Limits

Job Number: FA23189
Account: FPMRNYR FPM Remediations
Project: HM-AZ PBR Holloman AFB; Alamogordo, NM

Instrument ID: SSTRACE1 **Effective Date:** 01/27/15

Analyte	IDL ug/l
Aluminum	14
Antimony	1
Arsenic	1.3
Barium	1
Beryllium	.2
Cadmium	.2
Calcium	50
Chromium	1
Cobalt	.2
Copper	1
Iron	17
Lead	1
Magnesium	35
Manganese	.5
Molybdenum	.3
Nickel	.4
Potassium	200
Selenium	2.4
Silicon	5
Silver	.7
Sodium	500
Strontium	.5
Sulfur	5
Thallium	1.1
Tin	.9
Titanium	.5
Vanadium	.5
Zinc	3

The above applies to the following instrument runs:
MA12317

Instrument Detection Limits

Job Number: FA23189
Account: FPMRNYR FPM Remediations
Project: HM-AZ PBR Holloman AFB; Alamogordo, NM

Instrument ID: SSTRACE2 **Effective Date:** 01/27/15

Analyte	IDL ug/l
Aluminum	14
Antimony	1
Arsenic	1.3
Barium	1
Beryllium	.2
Cadmium	.2
Calcium	50
Chromium	1
Cobalt	.2
Copper	1
Iron	17
Lead	1
Magnesium	35
Manganese	.5
Molybdenum	.3
Nickel	.4
Potassium	200
Selenium	2.4
Silicon	5
Silver	.7
Sodium	500
Strontium	.5
Sulfur	5
Thallium	1.1
Tin	.9
Titanium	.5
Vanadium	.5
Zinc	3

The above applies to the following instrument runs:
MA12307,MA12310,MA12315,MA12320

Instrument Linear Ranges

Job Number: FA23189
Account: FPMRNYR FPM Remediations
Project: HM-AZ PBR Holloman AFB; Alamogordo, NM

Instrument ID: SSTRACE1 **Effective Date:** 08/13/13

Analyte	Linear Range ug/l
Aluminum	500000
Antimony	10000
Arsenic	10000
Barium	10000
Beryllium	10000
Cadmium	10000
Calcium	500000
Chromium	10000
Cobalt	10000
Copper	10000
Iron	500000
Lead	10000
Magnesium	500000
Manganese	10000
Molybdenum	10000
Nickel	10000
Potassium	80000
Selenium	10000
Silver	1000
Sodium	80000
Strontium	10000
Sulfur	10000
Thallium	10000
Tin	10000
Titanium	10000
Vanadium	10000
Zinc	10000

The above applies to the following instrument runs:
MA12317

Instrument Linear Ranges

Job Number: FA23189
Account: FPMRNYR FPM Remediations
Project: HM-AZ PBR Holloman AFB; Alamogordo, NM

Instrument ID: SSTRACE2 **Effective Date:** 10/22/10

Analyte	Linear Range ug/l
Aluminum	500000
Antimony	10000
Arsenic	10000
Barium	10000
Beryllium	10000
Cadmium	10000
Calcium	500000
Chromium	10000
Cobalt	10000
Copper	10000
Iron	500000
Lead	10000
Magnesium	500000
Manganese	10000
Molybdenum	10000
Nickel	10000
Potassium	80000
Selenium	10000
Silver	1000
Sodium	80000
Strontium	10000
Thallium	10000
Tin	10000
Titanium	10000
Vanadium	10000
Zinc	10000

The above applies to the following instrument runs:
MA12307,MA12310,MA12315,MA12320

Southeast ACCUTEST LABORATORIES

Metals Analysis

Raw Data

Zoom In
Zoom Out

Sample Name: Blank Acquired: 3/31/2015 9:25:24 Type: Cal
Method: 60102007_041712(v205) Mode: IR Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.0004	.0032	-.0003	.0123	-.0013	.0069	-.0005	.0002	.0000
Stddev	.0001	.0009	.0001	.0013	.0004	.0009	.0000	.0001	.0001
%RSD	35.24	27.37	28.13	10.88	34.01	12.71	7.427	83.58	366.1
#1	.0005	.0022	-.0004	.0119	-.0011	.0059	-.0005	.0000	.0001
#2	.0002	.0038	-.0004	.0112	-.0018	.0076	-.0006	.0003	-.0001
#3	.0004	.0035	-.0002	.0138	-.0010	.0071	-.0005	.0002	.0001

Elem	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.0039	.0007	-.0113	-.0004	.0002	.0004	-.0072	-.0003	-.0034
Stddev	.0001	.0009	.0038	.0003	.0000	.0002	.0049	.0003	.0005
%RSD	3.079	120.0	33.67	75.42	22.08	37.24	67.36	99.96	13.27
#1	.0038	.0017	-.0115	-.0003	.0002	.0004	-.0021	-.0001	-.0035
#2	.0040	.0001	-.0074	-.0001	.0002	.0006	-.0077	-.0002	-.0029
#3	.0039	.0004	-.0150	-.0006	.0002	.0003	-.0118	-.0006	-.0039

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.0006	-.0006	.0073	.0004	-.0002	.0017	-.0041	-.0003	.0023
Stddev	.0002	.0002	.0001	.0000	.0009	.0003	.0002	.0002	.0002
%RSD	41.35	27.61	1.131	2.597	447.0	15.81	4.608	76.64	7.707
#1	.0007	-.0004	.0073	.0004	-.0012	.0018	-.0042	-.0005	.0022
#2	.0003	-.0007	.0074	.0004	.0005	.0014	-.0039	-.0002	.0023
#3	.0008	-.0007	.0073	.0004	.0001	.0019	-.0043	-.0001	.0025

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3299.8	7811.4	50903.	2835.4
Stddev	2.7	16.2	102.	11.7
%RSD	.08088	.20746	.19980	.41230
#1	3297.2	7830.1	50919.	2848.3
#2	3302.5	7802.1	50795.	2832.4
#3	3299.8	7802.0	50996.	2825.5

Zoom In
Zoom Out

Sample Name: LowStd Acquired: 3/31/2015 9:28:52 Type: Cal
Method: 60102007_041712(v205) Mode: IR Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.0320	1.527	.0967	4.947	3.874	2.258	2.377	1.136	.2216	.3693
Stddev	.0001	.002	.0002	.010	.003	.002	.004	.001	.0006	.0003
%RSD	.4146	.0968	.2179	.1964	.0650	.1028	.1844	.1267	.2719	.0775
#1	.0321	1.526	.0965	4.956	3.872	2.260	2.372	1.134	.2215	.3693
#2	.0319	1.526	.0967	4.937	3.877	2.256	2.378	1.136	.2211	.3690
#3	.0321	1.529	.0970	4.947	3.874	2.257	2.381	1.137	.2223	.3696

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1.153	1.626	.2111	1.333	.5745	4.882	.6729	.5442	.1205	.0715
Stddev	.002	.004	.0008	.007	.0020	.012	.0011	.0007	.0005	.0003
%RSD	.1797	.2434	.3792	.5654	.3439	.2428	.1623	.1245	.4269	.3955
#1	1.151	1.631	.2119	1.328	.5724	4.868	.6718	.5437	.1199	.0712
#2	1.153	1.623	.2110	1.329	.5749	4.886	.6731	.5449	.1207	.0717
#3	1.155	1.625	.2103	1.341	.5762	4.891	.6739	.5438	.1209	.0717

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.3088	.2405	8.351	.8677	.2675	.3241	1.435
Stddev	.0117	.0010	.009	.0020	.0007	.0006	.003
%RSD	3.791	.4188	.1118	.2313	.2562	.1990	.1947
#1	.3223	.2394	8.355	.8659	.2677	.3242	1.433
#2	.3014	.2407	8.340	.8674	.2680	.3234	1.436
#3	.3027	.2414	8.358	.8699	.2667	.3247	1.438

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3054.3	7780.9	50427.	2852.6
Stddev	6.5	8.7	406.	13.3
%RSD	.21281	.11198	.80589	.46465
#1	3057.2	7789.2	50531.	2844.6
#2	3046.9	7771.8	50772.	2867.9
#3	3058.9	7781.7	49979.	2845.2

Zoom In
Zoom Out

Sample Name: MidStd Acquired: 3/31/2015 9:32:04 Type: Cal
Method: 60102007_041712(v205) Mode: IR Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.1288	6.654	.4080	20.72	16.01	9.776	9.754	4.612	.9168	1.507
Stddev	.0004	.042	.0004	.11	.10	.043	.011	.004	.0008	.004
%RSD	.2834	.6249	.1084	.5433	.6252	.4401	.1157	.0936	.0870	.2699
#1	.1287	6.702	.4076	20.84	16.12	9.820	9.746	4.608	.9174	1.504
#2	.1284	6.636	.4085	20.62	15.97	9.775	9.749	4.611	.9159	1.506
#3	.1292	6.624	.4078	20.69	15.94	9.734	9.767	4.617	.9171	1.512

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5.016	7.217	.9179	5.520	2.298	21.34	2.736	2.351	.4950	.2976
Stddev	.018	.039	.0058	.013	.009	.11	.001	.007	.0008	.0002
%RSD	.3612	.5466	.6363	.2380	.4136	.5172	.0457	.3105	.1572	.0769
#1	5.037	7.259	.9229	5.532	2.288	21.46	2.735	2.358	.4943	.2973
#2	5.007	7.211	.9194	5.506	2.298	21.30	2.736	2.344	.4948	.2977
#3	5.004	7.181	.9115	5.523	2.307	21.25	2.738	2.351	.4958	.2977

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.7172	.9442	34.09	3.569	1.126	1.293	5.897
Stddev	.0011	.0009	.24	.007	.001	.001	.009
%RSD	.1599	.0981	.7111	.2071	.1101	.0620	.1519
#1	.7160	.9437	34.37	3.568	1.125	1.294	5.895
#2	.7182	.9436	33.98	3.563	1.125	1.293	5.888
#3	.7174	.9452	33.92	3.577	1.127	1.293	5.906

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2733.7	7442.3	47902.	2797.6
Stddev	10.9	16.2	229.	18.3
%RSD	.39719	.21749	.47769	.65491
#1	2725.4	7440.3	47668.	2813.0
#2	2746.0	7459.4	47911.	2777.3
#3	2729.7	7427.2	48125.	2802.3

Zoom In
Zoom Out

Sample Name: HighStd Acquired: 3/31/2015 9:35:18 Type: Cal
Method: 60102007_041712(v205) Mode: IR Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.2516	12.91	.8119	41.15	31.30	18.75	19.12	9.058	1.814	2.992
Stddev	.0002	.05	.0003	.08	.08	.05	.03	.014	.003	.003
%RSD	.0914	.3672	.0429	.1828	.2613	.2562	.1686	.1564	.1771	.0974
#1	.2513	12.86	.8121	41.09	31.21	18.70	19.11	9.052	1.814	2.993
#2	.2518	12.93	.8115	41.13	31.33	18.75	19.09	9.048	1.816	2.995
#3	.2516	12.95	.8122	41.24	31.36	18.79	19.15	9.074	1.810	2.989

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	9.554	13.94	1.766	10.71	4.565	41.19	5.350	4.788	.9824	.5883
Stddev	.014	.05	.003	.02	.011	.10	.010	.004	.0005	.0007
%RSD	.1483	.3252	.1838	.1463	.2390	.2488	.1876	.0844	.0517	.1185
#1	9.547	13.89	1.764	10.72	4.558	41.07	5.345	4.786	.9821	.5882
#2	9.545	13.98	1.764	10.69	4.558	41.23	5.344	4.785	.9820	.5876
#3	9.571	13.95	1.769	10.72	4.577	41.26	5.362	4.793	.9829	.5890

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1.364	1.801	65.46	6.890	2.243	2.550	11.58
Stddev	.002	.004	.24	.014	.002	.002	.02
%RSD	.1439	.2083	.3649	.2019	.0899	.0662	.2136
#1	1.364	1.800	65.20	6.884	2.243	2.548	11.57
#2	1.363	1.798	65.52	6.906	2.240	2.551	11.56
#3	1.367	1.805	65.67	6.880	2.244	2.549	11.61

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2523.8	7163.8	46183.	2757.2
Stddev	4.7	19.8	148.	1.1
%RSD	.18538	.27664	.32143	.03881
#1	2528.4	7180.3	46110.	2756.3
#2	2524.0	7169.2	46086.	2758.4
#3	2519.1	7141.8	46354.	2756.8

Zoom In Zoom Out

Sample Name: HSTD Acquired: 3/31/2015 9:38:58 Type: QC
Method: 60102007_041712(v205) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4948	80.34	4.001	4.019	4.002	79.85	3.984	3.983	4.009	4.003
Stddev	.0010	.10	.002	.005	.007	.17	.004	.003	.009	.003
%RSD	.2075	.1196	.0530	.1341	.1671	.2076	.0932	.0704	.2256	.0648
#1	.4959	80.39	4.002	4.025	4.007	79.95	3.987	3.985	4.004	4.001
#2	.4939	80.40	3.999	4.016	4.004	79.94	3.980	3.980	4.020	4.006
#3	.4947	80.23	4.003	4.015	3.994	79.66	3.986	3.985	4.004	4.001
Check ?	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass
Value																				
Range																				

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	79.52	79.59	79.49	3.970	4.007	79.66	3.963	4.054	3.997	3.985
Stddev	.19	.13	.34	.024	.004	.12	.003	.003	.003	.006
%RSD	.2386	.1660	.4302	.5922	.0954	.1473	.0841	.0675	.0643	.1458
#1	79.58	79.74	79.44	3.949	4.008	79.70	3.963	4.054	4.000	3.987
#2	79.67	79.56	79.86	3.966	4.002	79.75	3.959	4.057	3.997	3.979
#3	79.30	79.48	79.18	3.995	4.010	79.53	3.966	4.052	3.995	3.990
Check ?	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass
Value																				
Range																				

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	3.721	3.909	3.972	3.994	4.013	3.976	3.983
Stddev	.003	.004	.005	.024	.006	.002	.006
%RSD	.0833	.1106	.1262	.5895	.1506	.0493	.1535
#1	3.717	3.912	3.978	3.986	4.013	3.977	3.988
#2	3.722	3.904	3.970	4.020	4.019	3.977	3.976
#3	3.723	3.911	3.969	3.976	4.007	3.973	3.985
Check ?	None	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass
Value											
Range											

Zoom In Zoom Out

Sample Name: HSTD Acquired: 3/31/2015 9:38:58 Type: QC
Method: 60102007_041712(v205) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2523.3	7179.6	46102.	2726.0
Stddev	3.0	13.6	26.	19.0
%RSD	.12028	.19008	.05630	.69530
#1	2520.2	7163.9	46108.	2733.4
#2	2523.5	7186.2	46124.	2704.5
#3	2526.3	7188.7	46073.	2740.1

Zoom In Zoom Out

Sample Name: ICV Acquired: 3/31/2015 9:42:40 Type: QC
Method: 60102007_041712(v205) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2562	41.19	2.004	2.012	2.038	41.33	2.034	2.029	2.040	2.016
Stddev	.0003	.24	.003	.012	.012	.20	.001	.002	.002	.002
%RSD	.0979	.5804	.1266	.5775	.5714	.4738	.0426	.0854	.1198	.0765
#1	.2559	41.45	2.005	2.024	2.051	41.55	2.033	2.028	2.043	2.017
#2	.2564	41.00	2.001	2.001	2.030	41.19	2.035	2.029	2.039	2.017
#3	.2563	41.10	2.006	2.012	2.033	41.25	2.035	2.031	2.039	2.014
Check ?	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass
Value																				
Range																				

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	41.79	40.82	40.98	2.050	2.069	41.02	2.021	1.993	2.010	2.012
Stddev	.23	.26	.17	.001	.004	.23	.002	.004	.006	.001
%RSD	.5505	.6428	.4100	.0616	.1846	.5543	.0919	.2057	.2824	.0248
#1	42.05	41.12	41.15	2.050	2.074	41.28	2.022	1.989	2.006	2.011
#2	41.62	40.68	40.98	2.048	2.067	40.87	2.020	1.993	2.007	2.012
#3	41.69	40.66	40.82	2.050	2.068	40.90	2.023	1.997	2.016	2.012
Check ?	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass
Value																				
Range																				

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.516	2.043	2.068	2.077	2.020	2.054	2.027
Stddev	.004	.003	.013	.002	.004	.001	.001
%RSD	.1658	.1312	.6312	.0792	.1775	.0603	.0230
#1	2.516	2.045	2.083	2.079	2.016	2.055	2.027
#2	2.512	2.040	2.058	2.076	2.023	2.053	2.027
#3	2.520	2.044	2.064	2.077	2.021	2.053	2.028
Check ?	None	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass
Value											
Range											

Zoom In Zoom Out

Sample Name: ICV Acquired: 3/31/2015 9:42:40 Type: QC
Method: 60102007_041712(v205) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2726.1	7452.8	47517.	2767.2
Stddev	4.0	3.1	108.	13.8
%RSD	.14586	.04162	.22774	.49963
#1	2730.7	7453.2	47433.	2782.1
#2	2723.6	7449.5	47639.	2754.9
#3	2724.0	7455.7	47479.	2764.4

Zoom In Zoom Out

Sample Name: ICB Acquired: 3/31/2015 9:50:16 Type: QC
Method: 60102007_041712(v205) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000	-.0122	-.0002	-.0001	.0002	-.0015	.0000	.0001	.0000
Stddev	.0003	.0187	.0006	.0002	.0001	.0018	.0000	.0000	.000
%RSD	1018.	153.8	242.1	251.5	64.56	123.3	75.03	13.78	320.5
#1	.0003	.0076	-.0007	.0001	.0003	.0003	.0000	.0001	.0000
#2	.0000	-.0297	-.0005	-.0003	.0002	-.0013	.0000	.0002	-.0002
#3	-.0002	-.0144	.0004	.0000	.0000	-.0034	.0000	.0001	.0000
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000	.0081	.0007	-.0033	.0001	F.0014	.0189	.0002	.0001
Stddev	.000	.0032	.0078	.0251	.0000	.0002	.0125	.0001	.0005
%RSD	890.5	39.12	1086.	772.3	49.30	15.16	66.20	23.83	672.3
#1	.0002	.0102	.0003	-.0317	.0001	.0017	.0191	.0002	.0006
#2	.0000	.0095	.0088	.0162	.0001	.0013	.0313	.0003	-.0004
#3	-.0003	.0045	-.0069	.0057	.0000	.0013	.0063	.0002	.0000
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit						.0010			
Low Limit						-.0010			

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0010	.0006	.0006	.0001	.0000	.0009	.0006	.0002	-.0001
Stddev	.0006	.0011	.0005	.0002	.000	.0002	.0009	.0001	.0000
%RSD	60.23	194.1	92.74	352.7	467.2	20.58	156.9	50.76	19.31
#1	.0007	.0017	.0012	.0003	.0000	.0010	-.0003	.0003	-.0001
#2	.0016	.0006	.0004	-.0001	-.0001	.0009	.0005	.0002	-.0001
#3	.0005	-.0005	.0001	.0000	.0000	.0007	.0015	.0001	-.0001
Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Zoom In Zoom Out

Sample Name: ICB Acquired: 3/31/2015 9:50:16 Type: QC
Method: 60102007_041712(v205) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3287.8	7790.5	50662.	2820.1
Stddev	11.7	18.5	301.	25.5
%RSD	.35525	.23803	.59374	.90394
#1	3301.3	7811.7	50410.	2815.0
#2	3280.6	7777.3	50995.	2797.5
#3	3281.5	7782.4	50581.	2847.7

Zoom In Zoom Out

Sample Name: CRIA Acquired: 3/31/2015 9:53:51 Type: QC
Method: 60102007_041712(v205) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0082	.1712	.0081	.1683	.0044	.8817	.0043	.0445	.0087	.0218
Stddev	.0001	.0124	.0005	.0003	.0002	.0071	.0001	.0001	.0001	.0001
%RSD	.9943	7.272	6.808	.2049	3.971	.8005	1.763	.1292	.8705	.4126
#1	.0083	.1624	.0077	.1686	.0043	.8867	.0044	.0445	.0087	.0218
#2	.0082	.1800	.0085	.1681	.0046	.8767	.0043	.0444	.0086	.0219
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value										
Range										

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2675	8.481	4.309	.0130	.0413	8.586	.0358	.0046	.0055	.0081
Stddev	.0004	.015	.083	.0000	.0002	.016	.0000	.0001	.0006	.0014
%RSD	.1643	.1783	1.920	.0301	.4637	.1847	.0865	1.086	10.99	17.62
#1	.2672	8.492	4.250	.0130	.0415	8.574	.0358	.0047	.0059	.0091
#2	.2679	8.470	4.367	.0130	.0412	8.597	.0358	.0046	.0051	.0071
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value										
Range										

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1279	.0452	.0084	.0086	.0087	.0409	.0185
Stddev	.0005	.0001	.0000	.0000	.0008	.0003	.0000
%RSD	.3530	.3101	.2740	.3775	8.714	.7064	.2236
#1	.1276	.0453	.0084	.0086	.0093	.0411	.0185
#2	.1282	.0451	.0084	.0086	.0082	.0407	.0184
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Zoom In Zoom Out

Sample Name: CRIA Acquired: 3/31/2015 9:53:51 Type: QC
Method: 60102007_041712(v205) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3151.8	7744.7	50537.	2843.4
Stddev	1.5	6.0	381.	24.8
%RSD	.04735	.07709	.75484	.87288
#1	3150.8	7740.4	50268.	2860.9
#2	3152.9	7748.9	50807.	2825.8

Zoom In Zoom Out

Sample Name: ICSA Acquired: 3/31/2015 9:57:25 Type: QC
Method: 60102007_041712(v206) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0003	502.5	.0000	.0004	.0003	474.4	.0000	-.0005	.0004	.0000
Stddev	.0004	1.4	.0016	.0003	.0000	7.1	.0000	.0001	.0001	.0002
%RSD	112.8	.2846	4220.	80.10	9.936	1.501	312.0	17.90	30.74	477.6
#1	.0007	502.7	.0002	.0007	.0002	471.5	.0000	-.0005	.0005	-.0001
#2	.0000	501.0	-.0016	.0002	.0003	469.2	.0001	-.0006	.0005	.0000
#3	.0003	503.9	.0015	.0002	.0003	482.5	.0000	-.0004	.0003	.0003
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	184.8	.2425	487.4	.0001	.0005	.2097	.0000	-.0004	-.0004	.0000
Stddev	.6	.0204	2.0	.0001	.0002	.0173	.0001	.0017	.0017	.0035
%RSD	.3199	8.403	.4051	150.3	38.84	8.261	780.4	467.3	486.9	100800.
#1	184.9	.2397	486.9	.0000	.0004	.2169	.0002	-.0009	-.0023	-.0028
#2	184.2	.2236	485.6	.0001	.0008	.1899	-.0001	.0015	.0010	.0039
#3	185.3	.2641	489.5	.0001	.0005	.2222	.0000	-.0017	.0003	-.0011
Check ?	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0480	-.0001	.0001	.0010	.0016	.0009	-.0018
Stddev	.0016	.0003	.0001	.0000	.0013	.0001	.0001
%RSD	3.325	342.9	242.6	2.484	83.72	8.924	3.655
#1	.0489	-.0003	.0002	.0010	.0002	.0008	-.0017
#2	.0489	.0003	-.0001	.0010	.0017	.0010	-.0018
#3	.0461	-.0003	.0000	.0010	.0028	.0009	-.0018
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Zoom In Zoom Out

Sample Name: ICSA Acquired: 3/31/2015 9:57:25 Type: QC
Method: 60102007_041712(v206) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2389.3	6883.5	42627.	2687.7
Stddev	5.3	9.0	141.	27.8
%RSD	.22009	.13097	.33122	1.0340
#1	2393.9	6892.4	42485.	2705.7
#2	2383.5	6874.4	42630.	2701.6
#3	2390.4	6883.9	42767.	2655.7

Zoom In Zoom Out

Sample Name: ICSAB Acquired: 3/31/2015 10:03:20 Type: QC
Method: 60102007_041712(v206) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.9763	495.8	1.047	.5117	.5093	472.2	.9201	.4715	.4836	.5351
Stddev	.0047	2.1	.002	.0007	.0027	2.8	.0008	.0007	.0023	.0015
%RSD	.4765	.4153	.1411	.1411	.5335	.5959	.0886	.1401	.4843	.2826
#1	.9775	497.7	1.046	.5125	.5114	470.1	.9209	.4719	.4856	.5361
#2	.9712	496.0	1.047	.5115	.5104	475.4	.9200	.4718	.4810	.5333
#3	.9802	493.6	1.049	.5110	.5062	471.0	.9193	.4707	.4840	.5359
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value										
Range										

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	186.4	.1121	484.2	.4946	.9449	.1797	.9501	.9507	1.050	1.015
Stddev	.6	.0057	2.1	.0025	.0003	.0084	.0012	.0010	.002	.002
%RSD	.3083	5.049	.4302	.5122	.0368	4.658	.1312	.1043	.1753	.1898
#1	187.0	.1158	486.2	.4965	.9449	.1717	.9515	.9498	1.052	1.017
#2	186.3	.1056	484.4	.4917	.9445	.1884	.9495	.9504	1.049	1.015
#3	185.8	.1149	482.0	.4955	.9452	.1789	.9493	.9518	1.048	1.013
Check ?	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value										
Range										

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1047	.9599	1.007	1.005	.9465	.4841	.9477
Stddev	.0007	.0012	.004	.004	.0021	.0013	.0014
%RSD	.6954	.1210	.4183	.4168	.2189	.2706	.1439
#1	.1040	.9610	1.011	1.007	.9449	.4855	.9492
#2	.1055	.9600	1.009	.9999	.9457	.4829	.9476
#3	.1047	.9587	1.003	1.008	.9488	.4838	.9465
Check ?	None	Chk Pass	None	None	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Zoom In Zoom Out

Sample Name: ICSAB Acquired: 3/31/2015 10:03:20 Type: QC
Method: 60102007_041712(v206) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2365.7	6834.5	43204.	2696.8
Stddev	.6	9.7	164.	7.0
%RSD	.02363	.14168	.37994	.25821
#1	2365.0	6826.2	43093.	2691.3
#2	2365.8	6832.3	43392.	2704.6
#3	2366.1	6845.2	43126.	2694.4

Zoom In Zoom Out

Sample Name: CCV Acquired: 3/31/2015 10:11:18 Type: QC
Method: 60102007_041712(v206) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2559	40.93	2.026	2.024	2.017	41.01	2.030	2.031	2.012	2.037
Stddev	.0006	.14	.003	.004	.005	.10	.002	.002	.004	.005
%RSD	.2448	.3371	.1432	.2025	.2537	.2377	.0929	.0865	.1839	.2570
#1	.2553	40.86	2.025	2.021	2.014	40.97	2.028	2.029	2.014	2.031
#2	.2559	40.84	2.030	2.023	2.014	40.94	2.031	2.032	2.008	2.040
#3	.2566	41.09	2.024	2.029	2.023	41.12	2.032	2.033	2.015	2.040
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value										
Range										

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	41.18	41.31	40.99	2.048	2.016	41.23	2.039	1.989	2.032	2.034
Stddev	.05	.08	.20	.006	.009	.10	.001	.002	.004	.003
%RSD	.1162	.1880	.4811	.3195	.4617	.2432	.0388	.0920	.1815	.1292
#1	41.13	41.26	41.13	2.043	2.006	41.14	2.038	1.987	2.028	2.036
#2	41.19	41.27	40.77	2.046	2.017	41.20	2.040	1.991	2.032	2.035
#3	41.23	41.40	41.08	2.055	2.025	41.34	2.039	1.990	2.036	2.031
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value										
Range										

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.965	2.069	2.049	2.050	2.023	2.021	2.026
Stddev	.001	.002	.006	.005	.001	.002	.003
%RSD	.0342	.0897	.3073	.2238	.0602	.0983	.1363
#1	1.964	2.067	2.045	2.046	2.023	2.021	2.023
#2	1.966	2.070	2.046	2.049	2.022	2.019	2.026
#3	1.964	2.070	2.057	2.055	2.024	2.023	2.028
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Pass
Value							
Range							

Zoom In Zoom Out

Sample Name: CCV Acquired: 3/31/2015 10:11:18 Type: QC
Method: 60102007_041712(v206) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2729.8	7414.0	47896.	2758.2
Stddev	.4	.6	287.	13.5
%RSD	.01446	.00788	.59821	.49025
#1	2730.3	7414.6	48025.	2754.8
#2	2729.6	7413.9	48095.	2773.1
#3	2729.6	7413.4	47567.	2746.7

Zoom In Zoom Out

Sample Name: CCB Acquired: 3/31/2015 10:24:01 Type: QC
Method: 60102007_041712(v206) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0001	-.0009	-.0002	.0000	.0003	.0048	.0001	.0001	.0000	.0001
Stddev	.0001	.0134	.0003	.0002	.0000	.0041	.0001	.0001	.000	.0002
%RSD	102.7	1515.	121.9	378.4	15.70	85.03	71.18	92.41	1343.	181.9
#1	.0000	-.0163	-.0002	-.0001	.0002	.0001	.0001	.0001	.0001	.0003
#2	.0001	.0083	.0000	.0002	.0003	.0072	.0001	.0002	.0001	.0003
#3	.0003	.0053	-.0005	.0000	.0003	.0070	.0000	.0000	-.0002	-.0001
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0137	.0707	.0146	.0001	.0005	.0051	.0001	.0006	.0004	-.0004
Stddev	.0088	.0274	.0090	.0001	.0002	.0086	.0001	.0003	.0003	.0005
%RSD	64.45	38.71	61.87	48.32	31.78	169.5	220.7	50.38	71.80	106.6
#1	.0239	.0793	.0075	.0001	.0007	.0058	.0002	.0003	.0005	-.0004
#2	.0078	.0928	.0116	.0001	.0005	.0133	.0000	.0006	.0001	.0000
#3	.0095	.0401	.0248	.0002	.0003	-.0039	-.0001	.0010	.0007	-.0009
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0011	.0001	.0001	.0005	.0007	.0002	.0000
Stddev	.0003	.0001	.0002	.0001	.0003	.0001	.0001
%RSD	27.30	42.37	233.0	27.13	40.95	44.98	180.7
#1	.0007	.0002	.0002	.0006	.0010	.0003	.0001
#2	.0011	.0001	-.0001	.0004	.0007	.0001	.0000
#3	.0013	.0002	.0001	.0005	.0004	.0003	.0000
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Zoom In Zoom Out

Sample Name: CCB Acquired: 3/31/2015 10:24:01 Type: QC
Method: 60102007_041712(v206) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3293.9	7783.9	50509.	2766.4
Stddev	5.3	7.2	106.	9.0
%RSD	.16139	.09300	.20949	.32465
#1	3299.3	7789.7	50388.	2774.0
#2	3288.7	7775.8	50583.	2768.7
#3	3293.6	7786.2	50557.	2756.5

Zoom In
Zoom Out

Sample Name: FA22964-7 Acquired: 3/31/2015 10:29:45 Type: Unk
Method: 60102007_041712(v206) Mode: CONC Corr. Factor: 5.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	.0099	424.5	.1032	.0229	.0125	566.7	.9155	.5138	.1326	.0464
Stddev	.0018	.9	.0011	.0010	.0004	1.6	.0018	.0007	.0008	.0020
%RSD	18.15	.2053	1.100	4.182	2.861	.2835	.1999	.1301	.5776	4.242
#1	.0081	424.6	.1045	.0240	.0128	566.7	.9134	.5131	.1317	.0478
#2	.0099	423.6	.1025	.0224	.0121	565.0	.9163	.5144	.1332	.0472
#3	.0117	425.3	.1025	.0224	.0125	568.3	.9167	.5140	.1329	.0441

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	760.3	180.4	524.9	19.31	.0209	361.2	1.937	-.0081	-.0231	.0004
Stddev	1.6	.2	2.0	.07	.0006	.6	.004	.0068	.0043	.0061
%RSD	.2125	.1351	.3748	.3848	2.999	.1772	.2032	84.73	18.77	1586.
#1	759.4	180.3	523.9	19.24	.0209	361.5	1.933	-.0012	-.0190	-.0066
#2	759.3	180.2	523.6	19.38	.0216	360.5	1.941	-.0081	-.0227	.0033
#3	762.1	180.7	527.1	19.30	.0203	361.7	1.937	-.0149	-.0276	.0045

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	48.15	-.0003	2.349	.0162	.0234	1.117	8.246
Stddev	.11	.0007	.004	.0009	.0021	.001	.020
%RSD	.2360	243.9	.1754	5.821	9.136	.1048	.2438
#1	48.02	.0005	2.349	.0166	.0251	1.117	8.223
#2	48.21	-.0008	2.345	.0170	.0210	1.119	8.256
#3	48.23	-.0005	2.353	.0152	.0239	1.117	8.260

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	2697.3	7525.4	46584.	2799.5
Stddev	6.6	17.3	199.	24.9
%RSD	.24333	.23009	.42656	.88908
#1	2696.6	7545.4	46579.	2819.0
#2	2704.1	7514.9	46388.	2808.0
#3	2691.1	7515.9	46785.	2771.5

Zoom In
Zoom Out

Sample Name: MP28719-D1 Acquired: 3/31/2015 10:33:54 Type: Unk
Method: 60102007_041712(v206) Mode: CONC Corr. Factor: 5.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	.0116	418.6	.1027	.0220	.0121	559.6	.9010	.5058	.1298	.0453
Stddev	.0004	.8	.0042	.0010	.0005	.5	.0007	.0004	.0020	.0015
%RSD	3.845	.1903	4.083	4.626	3.755	.0804	.0736	.0725	1.522	3.376
#1	.0112	419.4	.0987	.0218	.0127	560.1	.9010	.5055	.1284	.0471
#2	.0121	417.8	.1022	.0211	.0119	559.5	.9017	.5062	.1321	.0447
#3	.0116	418.6	.1071	.0231	.0119	559.2	.9003	.5056	.1290	.0443

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	750.3	178.1	517.6	18.90	.0205	355.1	1.902	-.0122	-.0129	-.0066
Stddev	.9	.5	.8	.05	.0007	.9	.001	.0035	.0056	.0051
%RSD	.1227	.2660	.1471	.2557	3.472	.2609	.0597	29.06	43.34	77.04
#1	751.1	178.6	518.0	18.85	.0212	356.0	1.901	-.0103	-.0069	-.0115
#2	749.3	177.7	516.7	18.90	.0198	354.1	1.903	-.0100	-.0139	-.0013
#3	750.5	178.1	518.0	18.95	.0206	355.3	1.902	-.0163	-.0180	-.0070

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	47.41	-.0006	2.322	.0149	.0228	1.099	8.107
Stddev	.07	.0004	.004	.0001	.0010	.001	.004
%RSD	.1483	65.82	.1651	.7369	4.215	.1128	.0468
#1	47.37	-.0007	2.326	.0148	.0238	1.098	8.103
#2	47.49	-.0010	2.319	.0150	.0227	1.100	8.110
#3	47.37	-.0002	2.320	.0149	.0218	1.100	8.109

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	2700.1	7546.0	46823.	2815.4
Stddev	1.8	2.0	82.	18.6
%RSD	.06759	.02679	.17408	.66138
#1	2698.1	7543.8	46917.	2827.8
#2	2701.7	7546.2	46772.	2794.0
#3	2700.3	7547.8	46781.	2824.4

Zoom In
Zoom Out

Sample Name: MP28719-S1 Acquired: 3/31/2015 10:38:04 Type: Unk
Method: 60102007_041712(v206) Mode: CONC Corr. Factor: 5.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	.0620	447.8	2.074	2.025	.0635	586.3	.9470	.9867	.3342	.3052
Stddev	.0004	.5	.005	.004	.0003	.3	.0001	.0022	.0012	.0007
%RSD	.7106	.1133	.2289	.2035	.4580	.0517	.0155	.2202	.3666	.2195
#1	.0616	447.9	2.079	2.027	.0639	586.6	.9470	.9846	.3348	.3060
#2	.0618	447.2	2.074	2.020	.0634	586.1	.9468	.9864	.3349	.3050
#3	.0625	448.2	2.069	2.028	.0633	586.1	.9471	.9889	.3327	.3047

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	777.2	204.4	544.3	19.42	.5049	381.8	2.384	.4719	.4765	2.033
Stddev	1.2	.6	.6	.02	.0010	.5	.002	.0034	.0041	.009
%RSD	.1553	.2741	.1096	.1179	.1939	.1248	.0880	.7220	.8549	.4469
#1	778.3	204.8	544.9	19.41	.5044	382.3	2.384	.4731	.4765	2.038
#2	775.9	203.7	543.8	19.44	.5043	381.4	2.382	.4746	.4724	2.037
#3	777.3	204.6	544.1	19.40	.5061	381.7	2.386	.4681	.4806	2.022

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	47.15	.5010	2.832	.5382	1.934	1.590	8.591
Stddev	.03	.0026	.006	.0024	.009	.001	.011
%RSD	.0657	.5200	.2044	.4483	.4736	.0703	.1311
#1	47.15	.5040	2.837	.5357	1.929	1.590	8.597
#2	47.13	.4990	2.825	.5405	1.928	1.591	8.578
#3	47.19	.5000	2.832	.5383	1.944	1.589	8.599

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	2683.1	7517.3	46413.	2776.4
Stddev	4.1	12.3	104.	6.0
%RSD	.15275	.16416	.22444	.21638
#1	2679.8	7508.0	46457.	2779.1
#2	2687.7	7531.3	46294.	2769.5
#3	2681.8	7512.5	46488.	2780.6

Zoom In
Zoom Out

Sample Name: MP28719-S2 Acquired: 3/31/2015 10:42:10 Type: Unk
Method: 60102007_041712(v206) Mode: CONC Corr. Factor: 5.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	.0636	457.2	2.094	2.049	.0653	597.7	.9651	1.004	.3411	.3106
Stddev	.0009	.9	.002	.004	.0004	.4	.0020	.003	.0036	.0006
%RSD	1.442	.2054	.0702	.2204	.6751	.0693	.2050	.2810	1.045	.1794
#1	.0641	456.8	2.093	2.046	.0656	597.9	.9652	1.005	.3424	.3111
#2	.0626	458.3	2.093	2.054	.0648	597.9	.9630	1.001	.3371	.3100
#3	.0642	456.5	2.096	2.047	.0654	597.2	.9670	1.006	.3439	.3107

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	791.1	208.4	553.2	19.75	.5130	389.5	2.421	.4762	.4695	2.074
Stddev	.5	.3	1.4	.06	.0026	.7	.002	.0007	.0047	.009
%RSD	.0625	.1623	.2512	.3061	.5041	.1897	.1005	.1558	1.005	.4522
#1	790.8	208.5	554.8	19.81	.5110	389.5	2.423	.4764	.4724	2.076
#2	791.7	208.6	552.6	19.75	.5122	390.3	2.418	.4754	.4722	2.064
#3	790.9	208.0	552.2	19.69	.5159	388.8	2.422	.4769	.4641	2.083

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	47.96	.5081	2.880	.5470	1.965	1.619	8.749
Stddev	.07	.0009	.009	.0008	.004	.002	.017
%RSD	.1490	.1754	.3128	.1532	.2297	.1386	.1955
#1	47.92	.5071	2.872	.5480	1.963	1.622	8.753
#2	47.91	.5084	2.890	.5465	1.971	1.619	8.731
#3	48.04	.5088	2.878	.5466	1.962	1.617	8.764

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	2681.8	7524.7	46143.	2743.3
Stddev	6.3	17.5	100.	14.7
%RSD	.23402	.23200	.21731	.53668
#1	2675.2	7509.9	46033.	2726.6
#2	2687.8	7544.0	46168.	2749.3
#3	2682.4	7520.3	46228.	2754.1

Zoom In
Zoom Out

Sample Name: MP28719-PS1 Acquired: 3/31/2015 10:46:16 Type: Unk
Method: 60102007_041712(v206) Mode: CONC Corr. Factor: 5.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)
Avg	.0595	452.7	.2136	.2827	.0662	605.3	1.006	.5864	.1929
Stddev	.0024	.6	.0010	.0009	.0002	.7	.002	.0015	.0011
%RSD	4.025	.1301	.4854	.3125	.2512	.1128	.1454	.2538	.5863
#1	.0585	452.0	.2131	.2835	.0664	604.8	1.005	.5859	.1918
#2	.0622	453.1	.2129	.2818	.0661	606.1	1.006	.5851	.1929
#3	.0577	452.9	.2148	.2827	.0662	604.9	1.008	.5880	.1940

Elem	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
IS Ref	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)
Avg	.1549	801.0	201.4	555.3	F20.10	.1209	391.4	2.108	.0360
Stddev	.0011	.4	.2	1.9	.08	.0004	.3	.001	.0033
%RSD	.7008	.0463	.0937	.3373	.3857	.3435	.0845	.0464	9.192
#1	.1558	800.8	201.3	553.4	20.01	.1214	391.1	2.106	.0323
#2	.1537	801.4	201.6	557.1	20.13	.1205	391.7	2.108	.0386
#3	.1552	800.8	201.2	555.4	20.15	.1209	391.3	2.108	.0370

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	.0848	.1087	50.25	.0460	2.538	.1188	.1284	1.219	8.848
Stddev	.0081	.0025	.08	.0011	.002	.0005	.0009	.003	.018
%RSD	9.554	2.323	.1495	2.417	.0935	.4091	.6636	.2740	.2012
#1	.0797	.1092	50.21	.0469	2.541	.1182	.1293	1.217	8.835
#2	.0806	.1110	50.20	.0463	2.536	.1190	.1276	1.217	8.840
#3	.0941	.1060	50.33	.0448	2.538	.1191	.1282	1.223	8.868

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	2684.2	7545.1	46410.	2764.3
Stddev	2.1	6.7	89.	10.0
%RSD	.07830	.08840	.19273	.36173
#1	2681.9	7545.7	46489.	2760.4
#2	2684.9	7551.5	46427.	2756.9
#3	2685.9	7538.2	46313.	2775.7

Zoom In
Zoom Out

Sample Name: MP28719-SD1 Acquired: 3/31/2015 10:50:26 Type: Unk
Method: 60102007_041712(v206) Mode: CONC Corr. Factor: 25.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	.0178	454.6	.1049	.0344	.0148	622.4	1.009	.5646	.1371	.0593
Stddev	.0039	.8	.0136	.0064	.0013	1.2	.002	.0013	.0040	.0035
%RSD	21.92	.1841	12.98	18.62	8.748	.2007	.1793	.2298	2.946	5.881
#1	.0154	453.6	.0966	.0378	.0138	621.4	1.007	.5645	.1393	.0559
#2	.0157	454.8	.0975	.0384	.0144	623.8	1.010	.5660	.1396	.0628
#3	.0223	455.3	.1206	.0270	.0162	621.9	1.010	.5634	.1325	.0591

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	838.2	192.8	560.7	20.76	.0080	387.5	2.120	-.0608	-.0136	-.0112
Stddev	1.5	.5	1.1	.09	.0028	1.3	.006	.0022	.0159	.0205
%RSD	.1832	.2492	.1955	.4108	34.93	.3272	.2733	3.619	117.2	183.9
#1	837.9	192.3	559.6	20.70	.0058	386.0	2.113	-.0601	.0028	-.0324
#2	839.8	193.3	560.6	20.73	.0111	388.2	2.123	-.0633	-.0289	.0086
#3	836.8	192.6	561.8	20.86	.0070	388.3	2.123	-.0591	-.0146	-.0098

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	52.23	-.0121	2.519	.0222	.0431	1.160	9.014
Stddev	.01	.0047	.008	.0015	.0276	.006	.016
%RSD	.0170	39.17	.3343	6.928	64.18	.5574	.1717
#1	52.22	-.0159	2.510	.0237	.0166	1.162	8.997
#2	52.22	-.0136	2.520	.0206	.0409	1.165	9.018
#3	52.23	-.0068	2.527	.0222	.0718	1.153	9.027

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	3002.0	7817.4	49266.	2815.2
Stddev	3.2	10.9	155.	9.1
%RSD	.10698	.13882	.31433	.32418
#1	3005.4	7825.2	49227.	2825.5
#2	2999.0	7822.0	49437.	2808.3
#3	3001.8	7805.0	49135.	2811.8

Zoom In
Zoom Out

Sample Name: FA22964-10 Acquired: 3/31/2015 10:54:29 Type: Unk
Method: 60102007_041712(v206) Mode: CONC Corr. Factor: 2.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)
Avg	-.0009	.0408	.0624	.0535	.0003	694.7	-.0005	-.0005	.0003
Stddev	.0005	.0237	.0011	.0003	.0002	1.2	.0001	.0002	.0004
%RSD	53.07	58.15	1.745	.6049	67.94	.1665	16.07	40.29	156.1
#1	-.0011	.0546	.0614	.0538	.0001	696.0	-.0006	-.0004	.0003
#2	-.0013	.0134	.0621	.0537	.0005	694.1	-.0005	-.0007	.0007
#3	-.0004	.0545	.0636	.0532	.0004	694.0	-.0005	-.0003	-.0002

Elem	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
IS Ref	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)
Avg	.0002	.1369	8.279	214.1	.0123	-.0017	F318.5	.0023	-.0059
Stddev	.0004	.0205	.054	.3	.0000	.0001	1.3	.0007	.0017
%RSD	199.2	14.96	.6539	.1334	.3983	4.307	.4131	31.31	28.45
#1	.0002	.1603	8.228	214.2	.0124	-.0016	320.0	.0015	-.0065
#2	.0007	.1222	8.273	214.3	.0123	-.0018	317.8	.0029	-.0073
#3	-.0002	.1281	8.336	213.8	.0124	-.0017	317.7	.0025	-.0040

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	.0021	.0565	21.00	-.0019	2.144	.0020	-.0016	.0074	.0074
Stddev	.0006	.0006	.02	.0005	.007	.0001	.0006	.0006	.0001
%RSD	27.79	1.108	.0920	26.12	.3485	7.080	37.40	8.135	1.258
#1	.0019	.0568	21.02	-.0013	2.152	.0021	-.0017	.0079	.0075
#2	.0027	.0569	20.99	-.0021	2.139	.0018	-.0022	.0067	.0075
#3	.0016	.0558	20.99	-.0022	2.139	.0020	-.0010	.0075	.0073

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	2558.1	7068.7	44081.	2639.7
Stddev	4.2	4.3	42.	10.7
%RSD	.16230	.06097	.09453	.40632
#1	2560.5	7066.1	44033.	2651.9
#2	2560.5	7073.7	44112.	2635.5
#3	2553.3	7066.3	44096.	2631.8

Zoom In
Zoom Out

Sample Name: FA22964-12 Acquired: 3/31/2015 10:58:35 Type: Unk
Method: 60102007_041712(v206) Mode: CONC Corr. Factor: 4.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)
Avg	.0105	466.0	.1122	.0280	.0126	630.2	.9690	.4693	.1527
Stddev	.0015	1.7	.0019	.0009	.0003	2.3	.0011	.0006	.0020
%RSD	13.85	.3648	1.674	3.081	2.060	.3608	.1140	.1208	1.325
#1	.0111	467.9	.1103	.0285	.0129	632.8	.9677	.4689	.1510
#2	.0116	465.5	.1122	.0286	.0127	629.3	.9693	.4690	.1521
#3	.0088	464.6	.1140	.0270	.0124	628.5	.9699	.4699	.1549

Elem	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
IS Ref	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)
Avg	.0444	689.2	191.8	494.8	F17.77	.0228	F369.3	1.870	-.0132
Stddev	.0008	1.7	.8	2.0	.05	.0002	1.5	.002	.0037
%RSD	1.856	.2507	.4023	.4000	.2699	.9794	.4179	.1018	27.78
#1	.0442	691.0	192.6	497.0	17.72	.0227	370.9	1.869	-.0140
#2	.0437	689.1	191.5	494.4	17.81	.0227	369.2	1.868	-.0164
#3	.0453	687.6	191.1	493.1	17.77	.0231	367.8	1.872	-.0092

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	-.0144	.0024	49.52	-.0004	2.648	.0116	.0199	1.219	8.380
Stddev	.0035	.0037	.05	.0006	.014	.0002	.0018	.001	.006
%RSD	24.40	157.7	.0970	143.1	.5131	1.858	8.917	.0907	.0705
#1	-.0150	.0037	49.46	.0002	2.663	.0117	.0215	1.220	8.380
#2	-.0106	.0052	49.54	-.0006	2.646	.0117	.0203	1.218	8.374
#3	-.0176	-.0018	49.55	-.0009	2.636	.0113	.0180	1.219	8.386

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	2626.7	7373.7	45705.	2706.8
Stddev	4.2	4.5	67.	8.5
%RSD	.16164	.06065	.14632	.31366
#1	2627.5	7368.9	45748.	2702.1
#2	2622.2	7374.3	45739.	2716.6
#3	2630.5	7377.8	45628.	2701.8

Zoom In Zoom Out

Sample Name: FA22964-18 Acquired: 3/31/2015 11:02:44 Type: Unk
Method: 60102007_041712(v206) Mode: CONC Corr. Factor: 4.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	.0079	108.7	.0751	.0301	.0067	198.5	.3742	.2336	.2682	.0947
Stddev	.0006	.2	.0029	.0019	.0002	.5	.0004	.0003	.0013	.0010
%RSD	7.747	.2187	3.919	6.404	3.499	.2607	.1022	.1437	.4860	1.100
#1	.0084	108.5	.0720	.0294	.0068	197.9	.3740	.2334	.2680	.0954
#2	.0072	108.9	.0779	.0323	.0064	198.9	.3740	.2340	.2696	.0935
#3	.0081	108.7	.0754	.0286	.0069	198.7	.3746	.2334	.2670	.0952

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	12.47	46.24	286.5	15.94	.0200	270.2	1.516	-.0113	-.0006	.0101
Stddev	.02	.20	1.3	.04	.0003	.2	.001	.0024	.0009	.0034
%RSD	.1830	.4291	.4412	.2685	1.740	.0717	.0800	21.57	162.5	34.22
#1	12.49	46.11	285.1	15.93	.0196	270.0	1.518	-.0141	-.0002	.0095
#2	12.48	46.46	287.6	15.91	.0203	270.4	1.516	-.0097	.0001	.0069
#3	12.45	46.13	286.7	15.99	.0202	270.2	1.516	-.0101	-.0016	.0138

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	40.23	-.0024	.4801	.0537	.0132	.8636	4.067
Stddev	.02	.0002	.0013	.0002	.0006	.0008	.006
%RSD	.0567	8.076	.2630	.3672	4.350	.0917	.1410
#1	40.24	-.0022	.4805	.0537	.0137	.8630	4.062
#2	40.20	-.0023	.4787	.0536	.0126	.8645	4.067
#3	40.24	-.0026	.4812	.0540	.0133	.8633	4.073

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	2805.8	7641.6	47687.	2711.5
Stddev	4.5	3.4	76.	13.9
%RSD	.16210	.04424	.16010	.51378
#1	2810.4	7642.0	47610.	2727.5
#2	2801.3	7644.8	47763.	2701.9
#3	2805.6	7638.1	47688.	2705.1

Zoom In Zoom Out

Sample Name: FA22993-1 Acquired: 3/31/2015 11:06:56 Type: Unk
Method: 60102007_041712(v206) Mode: CONC Corr. Factor: 2.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)
Avg	.0068	10.11	1.124	.0058	.0035	405.0	.5308	.4020	.0905
Stddev	.0005	.11	.003	.0005	.0003	1.4	.0005	.0004	.0006
%RSD	7.404	1.038	.2314	9.024	7.092	.3429	.1018	.0963	.6441
#1	.0068	10.18	1.121	.0061	.0033	406.4	.5302	.4021	.0900
#2	.0063	9.992	1.125	.0060	.0036	403.7	.5309	.4015	.0912
#3	.0073	10.16	1.125	.0052	.0038	404.8	.5313	.4023	.0903

Elem	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
IS Ref	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)
Avg	.2267	47.50	55.99	836.3	7.184	.0098	F308.7	6.965	-.0066
Stddev	.0003	.16	.22	3.9	.023	.0004	1.4	.014	.0015
%RSD	.1343	.3325	.3843	.4681	.3166	4.352	.4676	.1980	22.62
#1	.2266	47.68	56.19	839.8	7.184	.0094	310.4	6.959	-.0065
#2	.2264	47.41	55.76	832.1	7.161	.0102	307.6	6.955	-.0052
#3	.2270	47.41	56.02	837.1	7.207	.0097	308.2	6.981	-.0081

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	-.0100	.0020	45.22	-.0017	.8665	.0020	.0037	.5728	F14.30
Stddev	.0003	.0021	.04	.0003	.0042	.0003	.0013	.0021	.02
%RSD	3.315	105.5	.0875	15.96	.4884	17.22	33.74	.3700	.1297
#1	-.0104	.0041	45.22	-.0014	.8708	.0022	.0033	.5738	14.28
#2	-.0098	.0000	45.18	-.0019	.8623	.0022	.0051	.5742	14.29
#3	-.0098	.0018	45.26	-.0019	.8663	.0016	.0027	.5703	14.32

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	2472.5	7219.1	45064.	2691.1
Stddev	6.9	13.3	117.	10.1
%RSD	.28102	.18452	.25931	.37494
#1	2473.7	7221.0	45009.	2679.4
#2	2478.9	7231.4	44985.	2696.8
#3	2465.1	7205.0	45198.	2697.0

Zoom In Zoom Out

Sample Name: CCV Acquired: 3/31/2015 11:11:05 Type: QC
Method: 60102007_041712(v206) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2585	42.48	2.005	2.054	2.053	42.33	2.046	2.045	2.092	2.071
Stddev	.0001	.24	.002	.011	.011	.20	.001	.001	.006	.003
%RSD	.0409	.5588	.0864	.5564	.5196	.4680	.0651	.0303	.2786	.1307
#1	.2584	42.66	2.004	2.064	2.060	42.50	2.044	2.044	2.099	2.068
#2	.2586	42.57	2.004	2.055	2.057	42.37	2.046	2.045	2.090	2.073
#3	.2586	42.21	2.007	2.042	2.041	42.11	2.046	2.045	2.088	2.071
Check ?	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass
Value																				
Range																				

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	41.97	42.42	41.40	2.086	2.018	42.49	2.026	2.019	2.024	2.019
Stddev	.24	.14	.20	.004	.010	.14	.001	.002	.003	.001
%RSD	.5611	.3368	.4913	.2044	.4737	.3299	.0420	.0766	.1446	.0708
#1	42.16	42.54	41.60	2.091	2.008	42.57	2.026	2.018	2.024	2.017
#2	42.04	42.46	41.43	2.084	2.018	42.58	2.026	2.018	2.020	2.019
#3	41.71	42.26	41.19	2.083	2.027	42.33	2.027	2.021	2.026	2.020
Check ?	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass
Value																				
Range																				

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.958	2.034	2.116	2.100	2.051	2.042	2.037
Stddev	.001	.001	.011	.003	.005	.001	.001
%RSD	.0694	.0492	.5258	.1439	.2610	.0563	.0578
#1	1.958	2.033	2.125	2.104	2.054	2.043	2.036
#2	1.959	2.034	2.120	2.100	2.045	2.041	2.038
#3	1.957	2.034	2.103	2.098	2.054	2.041	2.037
Check ?	None	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass
Value							
Range							

Zoom In Zoom Out

Sample Name: CCV Acquired: 3/31/2015 11:11:05 Type: QC
Method: 60102007_041712(v206) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2717.4	7459.7	46868.	2656.9
Stddev	2.7	1.8	194.	4.9
%RSD	.10041	.02426	.41303	.18513
#1	2719.4	7460.9	46650.	2661.3
#2	2718.5	7460.5	46935.	2657.8
#3	2714.3	7457.6	47020.	2651.6

Zoom In Zoom Out

Sample Name: CCB Acquired: 3/31/2015 11:15:01 Type: QC
Method: 60102007_041712(v206) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0002	-.0040	.0000	.0006	.0004	.0111	.0002	.0002	.0003
Stddev	.0000	.0038	.0003	.0002	.0001	.0043	.0001	.0001	.0002
%RSD	19.54	95.36	2239.	31.28	16.73	39.05	38.03	51.42	54.36
#1	.0001	.0004	.0002	.0007	.0003	.0147	.0002	.0003	.0005
#2	.0002	-.0058	.0001	.0008	.0005	.0063	.0001	.0001	.0002
#3	.0002	-.0066	-.0003	.0004	.0004	.0122	.0001	.0001	.0002
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0002	.0424	.0837	.0313	.0004	F.0023	.0576	.0003	.0004
Stddev	.0001	.0114	.0273	.0223	.0000	.0007	.0065	.0001	.0003
%RSD	68.34	26.96	32.59	71.11	11.89	32.12	11.31	50.77	75.56
#1	.0002	.0545	.1151	.0148	.0004	.0030	.0648	.0001	.0006
#2	.0003	.0412	.0709	.0225	.0004	.0021	.0558	.0004	.0001
#3	.0000	.0317	.0652	.0566	.0003	.0016	.0522	.0003	.0005
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit						.0010			
Low Limit						-.0010			

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0014	.0000	.0025	.0002	.0003	.0019	.0002	.0003	.0001
Stddev	.0008	.002	.0004	.0002	.0001	.0001	.0005	.0002	.0001
%RSD	54.01	9694.	17.96	79.51	27.30	6.196	254.7	70.28	55.11
#1	.0021	.0019	.0022	.0002	.0002	.0020	.0000	.0005	.0002
#2	.0006	.0007	.0022	.0001	.0004	.0018	.0008	.0002	.0001
#3	.0015	-.0027	.0030	.0004	.0003	.0018	-.0001	.0002	.0001
Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Zoom In Zoom Out

Sample Name: CCB Acquired: 3/31/2015 11:15:01 Type: QC
Method: 60102007_041712(v206) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3257.4	7792.7	49618.	2666.1
Stddev	4.8	9.9	209.	28.1
%RSD	.14586	.12661	.42088	1.0527
#1	3258.7	7790.0	49493.	2639.1
#2	3261.3	7803.7	49859.	2664.0
#3	3252.1	7784.5	49501.	2695.1

Zoom In Zoom Out

Sample Name: FA22993-2 Acquired: 3/31/2015 11:19:13 Type: Unk
Method: 60102007_041712(v206) Mode: CONC Corr. Factor: 2.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)
Avg	.0042	290.5	.1449	.0622	.0094	498.7	1.336	.2849	.0404
Stddev	.0005	.2	.0025	.0001	.0002	.5	.002	.0006	.0003
%RSD	12.83	.0798	1.714	.2285	2.559	.0967	.1215	.2122	.8506
#1	.0039	290.4	.1440	.0624	.0092	498.7	1.335	.2843	.0408
#2	.0038	290.3	.1477	.0622	.0094	498.2	1.336	.2851	.0405
#3	.0048	290.7	.1429	.0622	.0096	499.2	1.338	.2855	.0401

Elem	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
IS Ref	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)
Avg	.0821	146.3	F266.3	357.7	F8.854	.0107	F515.1	3.159	-.0055
Stddev	.0005	.2	.5	.7	.060	.0003	8.8	.002	.0013
%RSD	.5718	.1092	.1946	.1921	.6733	2.672	1.705	.0680	23.02
#1	.0826	146.1	266.6	358.5	8.788	.0107	521.4	3.158	-.0068
#2	.0819	146.3	266.5	357.2	8.867	.0104	505.1	3.158	-.0043
#3	.0817	146.4	265.7	357.4	8.905	.0109	518.9	3.162	-.0053

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	-.0026	.0014	35.83	-.0017	1.056	.0094	.0118	.5650	F11.99
Stddev	.0017	.0022	.09	.0007	.002	.0005	.0007	.0012	.01
%RSD	67.05	161.7	.2496	40.22	.1769	5.180	6.089	.2149	.0595
#1	-.0009	.0033	35.75	-.0012	1.055	.0097	.0124	.5641	11.99
#2	-.0043	-.0011	35.82	-.0025	1.056	.0096	.0118	.5664	11.98
#3	-.0025	.0020	35.93	-.0013	1.058	.0088	.0110	.5645	11.99

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	2451.9	7289.6	44582.	2686.8
Stddev	4.7	9.8	111.	7.3
%RSD	.19255	.13428	.24818	.26994
#1	2447.4	7281.6	44597.	2688.0
#2	2456.8	7300.5	44465.	2693.4
#3	2451.5	7286.7	44685.	2679.0

Zoom In Zoom Out

Sample Name: FA22993-5 Acquired: 3/31/2015 11:23:31 Type: Unk
Method: 60102007_041712(v206) Mode: CONC Corr. Factor: 2.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)
Avg	.0563	266.3	.2664	.1052	.0310	846.7	1.613	.1860	1.265
Stddev	.0010	.5	.0009	.0008	.0003	1.0	.001	.0005	.003
%RSD	1.805	.1958	.3410	.7755	.9028	.1220	.0802	.2557	.2453
#1	.0573	265.8	.2662	.1054	.0307	845.5	1.612	.1865	1.269
#2	.0552	266.5	.2656	.1059	.0312	847.5	1.612	.1857	1.263
#3	.0563	266.7	.2674	.1043	.0312	847.0	1.614	.1857	1.265

Elem	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
IS Ref	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)
Avg	1.119	60.79	F169.4	290.5	F9.700	.0493	F356.9	3.331	-.0047
Stddev	.002	.11	.1	.3	.024	.0004	.2	.004	.0015
%RSD	.2027	.1849	.0337	.0923	.2470	.8580	.0454	.1331	32.06
#1	1.121	60.66	169.4	290.7	9.701	.0488	356.9	3.331	-.0054
#2	1.117	60.86	169.5	290.5	9.676	.0494	357.1	3.327	-.0058
#3	1.119	60.85	169.4	290.2	9.724	.0497	356.8	3.336	-.0030

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	-.0041	.0149	52.30	-.0018	2.022	.0978	.0019	6.905	F17.26
Stddev	.0030	.0021	.06	.0001	.004	.0004	.0021	.009	.02
%RSD	72.14	14.11	.1051	6.242	.1947	.4146	110.0	.1250	.1401
#1	-.0075	.0125	52.32	-.0019	2.017	.0981	.0039	6.911	17.24
#2	-.0024	.0160	52.23	-.0017	2.025	.0979	-.0003	6.895	17.25
#3	-.0024	.0162	52.33	-.0018	2.023	.0973	.0021	6.909	17.29

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	2428.8	7346.8	44905.	2737.7
Stddev	6.9	16.9	130.	6.2
%RSD	.28426	.22967	.28993	.22484
#1	2435.9	7359.6	44964.	2730.9
#2	2428.3	7353.1	44996.	2742.9
#3	2422.1	7327.7	44756.	2739.2

Zoom In Zoom Out

Sample Name: FA23162-1 Acquired: 3/31/2015 11:27:38 Type: Unk
Method: 60102007_041712(v206) Mode: CONC Corr. Factor: 2.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	-.0001	3.080	.0001	.0892	.0003	18.83	.0000	.0005	.0074	.0018
Stddev	.0007	.034	.0014	.0003	.0001	.09	.000	.0000	.0006	.0005
%RSD	833.4	1.106	2367.	.3185	43.40	.4716	289.2	8.788	7.415	29.89
#1	.0007	3.115	.0012	.0895	.0003	18.93	-.0001	.0006	.0071	.0013
#2	-.0004	3.048	.0005	.0891	.0003	18.76	.0001	.0005	.0071	.0024
#3	-.0006	3.077	-.0015	.0889	.0001	18.81	.0000	.0005	.0081	.0016

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	1.664	3.669	3.852	.0123	.0005	109.0	.0014	.0041	.0013	.0015
Stddev	.009	.071	.037	.0001	.0001	.4	.0002	.0003	.0016	.0042
%RSD	.5366	1.948	.9586	.6057	27.22	.4041	17.07	8.205	123.8	288.3
#1	1.668	3.593	3.817	.0122	.0007	109.5	.0015	.0039	-.0006	.0015
#2	1.671	3.735	3.849	.0123	.0005	108.8	.0016	.0044	.0023	-.0027
#3	1.654	3.679	3.890	.0124	.0004	108.7	.0012	.0038	.0022	.0056

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	6.572	-.0006	.2010	.0186	-.0003	.0180	.0183
Stddev	.009	.0002	.0008	.0002	.0004	.0002	.0002
%RSD	.1350	30.20	.3844	1.289	138.9	.8897	.9557
#1	6.582	-.0006	.2016	.0183	-.0007	.0179	.0185
#2	6.567	-.0004	.2012	.0186	.0002	.0182	.0183
#3	6.567	-.0008	.2001	.0188	-.0004	.0180	.0182

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	2956.4	7720.8	48346.	2693.0
Stddev	.9	10.0	63.	21.9
%RSD	.03102	.12991	.12937	.81474
#1	2955.5	7714.0	48304.	2669.6
#2	2956.4	7716.1	48418.	2713.1
#3	2957.3	7732.3	48316.	2696.3

Zoom In Zoom Out

Sample Name: MP28726-D1 Acquired: 3/31/2015 11:31:44 Type: Unk
Method: 60102007_041712(v206) Mode: CONC Corr. Factor: 2.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	-.0005	3.444	.0018	.0934	.0006	19.37	.0000	.0007	.0078	.0011
Stddev	.0007	.042	.0019	.0006	.0000	.03	.000	.0002	.0005	.0001
%RSD	147.9	1.232	104.5	.6426	4.181	.1673	205.2	32.73	6.122	12.14
#1	-.0002	3.467	.0039	.0939	.0006	19.37	.0000	.0006	.0075	.0010
#2	.0000	3.395	.0009	.0927	.0006	19.33	.0000	.0005	.0077	.0011
#3	-.0013	3.470	.0006	.0936	.0006	19.40	-.0001	.0009	.0084	.0012

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	1.698	3.581	3.912	.0122	.0006	111.9	.0012	.0047	.0019	.0036
Stddev	.008	.045	.076	.0001	.0003	.3	.0002	.0002	.0017	.0006
%RSD	.4888	1.269	1.954	1.087	51.11	.2274	16.80	3.768	90.20	17.02
#1	1.707	3.529	3.999	.0123	.0009	112.2	.0014	.0045	-.0001	.0035
#2	1.695	3.614	3.880	.0122	.0003	111.7	.0013	.0048	.0031	.0043
#3	1.691	3.600	3.857	.0120	.0006	112.0	.0010	.0048	.0026	.0031

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	6.919	-.0007	.2163	.0322	-.0016	.0178	.0210
Stddev	.007	.0004	.0011	.0009	.0002	.0003	.0001
%RSD	.0953	54.70	.4933	2.720	13.27	1.442	.5504
#1	6.925	-.0011	.2172	.0313	-.0018	.0179	.0209
#2	6.912	-.0003	.2165	.0323	-.0017	.0180	.0211
#3	6.920	-.0008	.2151	.0330	-.0014	.0175	.0209

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	2947.2	7748.9	48006.	2667.6
Stddev	1.8	9.6	88.	22.2
%RSD	.06185	.12401	.18275	.83381
#1	2946.8	7737.8	47958.	2660.4
#2	2949.1	7754.0	47954.	2692.6
#3	2945.6	7754.8	48108.	2649.9

Zoom In Zoom Out

Sample Name: MP28726-S1 Acquired: 3/31/2015 11:35:50 Type: Unk
Method: 60102007_041712(v206) Mode: CONC Corr. Factor: 2.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	.0502	32.89	2.011	2.190	.0536	45.77	.0513	.5238	.2268	.2667
Stddev	.0004	.03	.004	.008	.0003	.14	.0002	.0003	.0008	.0003
%RSD	.8771	.0923	.2212	.3687	.5066	.2993	.3370	.0613	.3549	.1174
#1	.0505	32.92	2.009	2.188	.0539	45.70	.0511	.5235	.2277	.2664
#2	.0497	32.90	2.008	2.183	.0533	45.67	.0514	.5237	.2261	.2665
#3	.0505	32.86	2.016	2.199	.0537	45.92	.0515	.5242	.2267	.2670

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	29.27	30.10	29.29	.5356	.5200	137.7	.5224	.5051	.4949	2.009
Stddev	.06	.15	.03	.0012	.0006	.4	.0008	.0003	.0015	.005
%RSD	.2057	.5097	.1071	.2173	.1189	.3107	.1443	.0676	.3020	.2568
#1	29.23	30.11	29.33	.5369	.5205	137.7	.5216	.5055	.4932	2.006
#2	29.24	29.94	29.29	.5347	.5193	137.2	.5231	.5051	.4959	2.015
#3	29.34	30.24	29.26	.5352	.5203	138.1	.5226	.5048	.4956	2.006

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	7.372	.5247	.8121	.5621	2.034	.5256	.5358
Stddev	.008	.0018	.0014	.0016	.004	.0023	.0003
%RSD	.1111	.3384	.1763	.2773	.2235	.4455	.0615
#1	7.362	.5229	.8121	.5635	2.030	.5283	.5357
#2	7.375	.5265	.8106	.5605	2.033	.5242	.5356
#3	7.378	.5248	.8135	.5624	2.039	.5243	.5362

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	2853.4	7665.5	47856.	2693.5
Stddev	2.2	2.9	71.	13.0
%RSD	.07838	.03808	.14921	.48255
#1	2851.0	7666.4	47774.	2684.5
#2	2855.4	7662.2	47903.	2708.4
#3	2853.8	7667.8	47891.	2687.6

Zoom In Zoom Out

Sample Name: MP28726-S2 Acquired: 3/31/2015 11:39:47 Type: Unk
Method: 60102007_041712(v206) Mode: CONC Corr. Factor: 2.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	.0506	32.64	1.991	2.165	.0532	45.59	.0506	.5173	.2240	.2651
Stddev	.0010	.07	.003	.007	.0003	.08	.0002	.0003	.0015	.0006
%RSD	1.963	.2223	.1335	.3046	.4917	.1696	.3055	.0676	.6588	.2433
#1	.0517	32.70	1.993	2.172	.0534	45.68	.0506	.5177	.2235	.2658
#2	.0497	32.56	1.992	2.159	.0529	45.53	.0508	.5171	.2229	.2647
#3	.0505	32.67	1.988	2.165	.0533	45.56	.0505	.5172	.2257	.2647

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	28.93	29.90	29.24	.5304	.5144	137.7	.5164	.4992	.4863	1.979
Stddev	.13	.13	.07	.0023	.0003	.4	.0011	.0024	.0024	.005
%RSD	.4437	.4261	.2557	.4291	.0560	.2930	.2094	.4890	.4836	.2688
#1	29.05	30.03	29.23	.5321	.5144	138.1	.5175	.4971	.4880	1.984
#2	28.79	29.78	29.31	.5278	.5147	137.3	.5164	.5019	.4836	1.979
#3	28.95	29.89	29.16	.5313	.5141	137.6	.5153	.4986	.4873	1.973

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	7.367	.5151	.8059	.5606	2.015	.5206	.5304
Stddev	.006	.0008	.0027	.0019	.003	.0014	.0004
%RSD	.0780	.1560	.3312	.3386	.1593	.2604	.0813
#1	7.373	.5159	.8084	.5618	2.012	.5221	.5309
#2	7.364	.5151	.8031	.5584	2.019	.5194	.5302
#3	7.363	.5143	.8062	.5616	2.015	.5204	.5300

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	2853.8	7669.9	47904.	2684.4
Stddev	1.8	13.8	186.	14.9
%RSD	.06186	.17931	.38745	.55597
#1	2854.5	7655.4	48021.	2698.6
#2	2851.8	7671.5	48000.	2668.8
#3	2855.1	7682.7	47690.	2685.7

Zoom In Zoom Out

Sample Name: MP28726-PS1 Acquired: 3/31/2015 11:43:45 Type: Unk
Method: 60102007_041712(v206) Mode: CONC Corr. Factor: 2.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	.0493	5.886	.1059	.3561	.0542	24.59	.0533	.0544	.0636	.1100
Stddev	.0004	.033	.0000	.0018	.0005	.09	.0001	.0003	.0007	.0007
%RSD	.8445	.5591	.0294	.5089	.9391	.3718	.2493	.5840	1.112	.6026
#1	.0493	5.857	.1059	.3546	.0542	24.54	.0532	.0543	.0642	.1101
#2	.0497	5.878	.1059	.3554	.0536	24.54	.0532	.0541	.0637	.1106
#3	.0489	5.922	.1058	.3581	.0546	24.70	.0534	.0547	.0628	.1093

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	4.804	13.98	8.839	.0665	.1052	123.7	.1088	.0536	.1042	.1037
Stddev	.023	.02	.166	.0002	.0003	.2	.0004	.0009	.0007	.0012
%RSD	.4737	.1386	1.876	.2409	.2619	.1391	.3273	1.615	.6614	1.174
#1	4.780	14.00	8.740	.0666	.1048	123.7	.1089	.0526	.1044	.1024
#2	4.809	13.97	8.747	.0666	.1053	123.5	.1084	.0541	.1048	.1048
#3	4.825	13.96	9.030	.0663	.1053	123.9	.1091	.0541	.1035	.1038

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	6.627	.0506	.2583	.1301	.1047	.0700	.2821
Stddev	.011	.0007	.0007	.0003	.0007	.0004	.0002
%RSD	.1603	1.361	.2535	.2581	.6845	.5699	.0829
#1	6.634	.0498	.2581	.1303	.1045	.0698	.2819
#2	6.615	.0510	.2579	.1297	.1055	.0705	.2819
#3	6.633	.0509	.2591	.1302	.1041	.0698	.2823

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	2899.4	7680.8	47601.	2658.5
Stddev	9.3	15.4	124.	3.2
%RSD	.31919	.20052	.26053	.11980
#1	2909.9	7698.6	47467.	2661.7
#2	2892.5	7672.0	47624.	2655.4
#3	2895.8	7671.8	47712.	2658.4

Zoom In Zoom Out

Sample Name: MP28726-SD1 Acquired: 3/31/2015 11:47:48 Type: Unk
Method: 60102007_041712(v206) Mode: CONC Corr. Factor: 10.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	.0014	2.656	-.0039	.0845	.0007	18.40	-.0006	.0007	.0071	.0000
Stddev	.0046	.026	.0028	.0019	.0003	.07	.0002	.0003	.0028	.003
%RSD	334.7	.9795	73.69	2.293	46.37	.3573	42.54	36.94	39.82	12860.
#1	.0041	2.628	-.0058	.0859	.0009	18.47	-.0003	.0009	.0099	.0031
#2	.0039	2.679	-.0006	.0853	.0010	18.34	-.0008	.0008	.0043	.0001
#3	-.0039	2.660	-.0051	.0823	.0004	18.40	-.0006	.0004	.0070	-.0033

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	1.432	3.051	3.386	.0107	-.0029	100.7	.0032	.0028	.0054	-.0065
Stddev	.059	.140	.256	.0003	.0007	.1	.0004	.0024	.0091	.0123
%RSD	4.113	4.586	7.557	2.943	23.78	.0657	12.73	85.24	167.7	189.8
#1	1.498	3.186	3.158	.0108	-.0035	100.7	.0036	.0028	.0002	.0033
#2	1.386	3.061	3.338	.0104	-.0030	100.6	.0034	.0051	.0159	-.0202
#3	1.411	2.907	3.663	.0110	-.0021	100.7	.0028	.0004	.0001	-.0024

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	5.909	-.0053	.1795	.0155	.0003	.0154	.0183
Stddev	.020	.0008	.0022	.0002	.0059	.0037	.0006
%RSD	.3454	16.01	1.242	1.344	2277.	23.95	3.412
#1	5.906	-.0052	.1789	.0157	-.0053	.0169	.0190
#2	5.890	-.0044	.1820	.0155	-.0004	.0182	.0178
#3	5.931	-.0061	.1776	.0153	.0065	.0112	.0182

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	3150.9	7831.4	48928.	2641.6
Stddev	6.9	20.6	169.	22.7
%RSD	.22024	.26320	.34440	.85940
#1	3144.6	7815.0	49067.	2622.0
#2	3158.3	7854.5	48976.	2666.4
#3	3149.7	7824.6	48740.	2636.3

Zoom In Zoom Out

Sample Name: FA23162-2 Acquired: 3/31/2015 11:51:58 Type: Unk
Method: 60102007_041712(v206) Mode: CONC Corr. Factor: 2.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	.0000	.0517	-.0010	.2547	.0002	37.50	-.0002	.0005	.0017	-.0003
Stddev	.0009	.0274	.0006	.0018	.0001	.14	.0001	.0002	.0004	.0004
%RSD	3392.	53.12	66.70	.6964	70.48	.3813	38.39	27.60	24.65	117.3
#1	.0006	.0687	-.0002	.2567	.0003	37.66	-.0001	.0007	.0017	.0001
#2	.0004	.0200	-.0013	.2538	.0001	37.37	-.0002	.0005	.0022	-.0003
#3	-.0009	.0663	-.0014	.2535	.0001	37.48	-.0002	.0004	.0013	-.0007

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	5.267	3.816	13.38	.0310	-.0011	139.4	.0006	-.0011	.0023	.0010
Stddev	.018	.066	.11	.0000	.0003	.7	.0001	.0011	.0021	.0009
%RSD	.3363	1.733	.7852	.1194	25.66	.5266	16.87	97.68	91.89	88.90
#1	5.288	3.892	13.44	.0310	-.0008	140.2	.0007	-.0006	.0045	.0009
#2	5.258	3.785	13.44	.0310	-.0011	139.0	.0005	-.0003	.0004	.0002
#3	5.257	3.771	13.26	.0311	-.0013	138.8	.0007	-.0024	.0018	.0019

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	5.460	-.0011	.2462	.0008	.0003	.0012	.0079
Stddev	.006	.0000	.0008	.0002	.0019	.0006	.0001
%RSD	.1036	4.220	.3203	26.51	656.3	51.37	.8949
#1	5.458	-.0012	.2469	.0010	.0003	.0012	.0079
#2	5.456	-.0011	.2454	.0006	.0022	.0006	.0079
#3	5.467	-.0012	.2464	.0008	-.0017	.0019	.0078

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	2923.8	7585.1	47184.	2626.1
Stddev	4.6	7.4	113.	14.1
%RSD	.15670	.09707	.23953	.53559
#1	2927.3	7593.2	47311.	2614.6
#2	2925.5	7583.2	47148.	2641.8
#3	2918.6	7578.9	47094.	2622.1

Zoom In Zoom Out

Sample Name: FA23162-5 Acquired: 3/31/2015 11:56:06 Type: Unk
Method: 60102007_041712(v206) Mode: CONC Corr. Factor: 2.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	.0005	1.634	.0083	.0371	.0006	18.21	-.0001	.0000	.0054	.0001
Stddev	.0004	.033	.0011	.0004	.0002	.05	.0001	.0002	.0007	.0003
%RSD	76.32	2.018	13.19	1.092	32.63	.2537	112.0	526.4	12.57	306.9
#1	.0008	1.601	.0072	.0376	.0007	18.15	-.0001	.0003	.0049	-.0002
#2	.0004	1.635	.0082	.0368	.0008	18.23	.0000	-.0001	.0051	.0000
#3	.0001	1.667	.0094	.0370	.0004	18.23	-.0002	-.0001	.0062	.0004

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	15.39	.9322	3.009	.0081	-.0007	139.0	.0003	-.0014	.0005	.0006
Stddev	.10	.0089	.063	.0002	.0001	.5	.0004	.0014	.0001	.0014
%RSD	.6604	.9504	2.100	1.984	9.793	.3309	136.6	96.83	27.71	222.9
#1	15.27	.9295	3.002	.0080	-.0006	138.4	.0005	-.0030	.0006	.0000
#2	15.43	.9421	2.950	.0080	-.0007	139.3	.0006	-.0011	.0006	-.0004
#3	15.46	.9250	3.076	.0083	-.0008	139.1	-.0002	-.0002	.0004	.0022

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	11.42	-.0012	.0621	.0093	-.0012	.0202	.0190
Stddev	.01	.0005	.0003	.0003	.0007	.0002	.0001
%RSD	.0516	43.13	.4945	3.016	57.46	1.014	.6242
#1	11.41	-.0015	.0617	.0095	-.0007	.0202	.0191
#2	11.42	-.0015	.0622	.0094	-.0020	.0200	.0189
#3	11.42	-.0006	.0622	.0090	-.0009	.0204	.0191

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	2925.3	7700.6	48035.	2699.4
Stddev	7.9	13.5	25.	18.8
%RSD	.26867	.17562	.05176	.69823
#1	2916.7	7685.3	48060.	2711.8
#2	2932.1	7711.1	48011.	2708.7
#3	2927.1	7705.3	48034.	2677.7

Zoom In
Zoom Out

Sample Name: CCV Acquired: 3/31/2015 12:00:11 Type: QC
Method: 60102007_041712(v206) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2618	43.54	1.994	2.072	2.080	43.32	2.060	2.056	2.150	2.102
Stddev	.0009	.12	.002	.002	.002	.15	.001	.001	.002	.004
%RSD	.3419	.2804	.1112	.1105	.1069	.3367	.0532	.0665	.0724	.1937
#1	.2620	43.68	1.996	2.071	2.080	43.49	2.060	2.056	2.152	2.106
#2	.2608	43.45	1.992	2.070	2.082	43.22	2.061	2.057	2.149	2.098
#3	.2625	43.49	1.993	2.074	2.077	43.26	2.059	2.054	2.150	2.103
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value Range										

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	42.54	43.16	41.71	2.126	2.020	43.64	2.020	2.047	2.017	2.008
Stddev	.06	.10	.17	.003	.008	.09	.001	.005	.004	.001
%RSD	.1446	.2208	.4099	.1159	.4124	.2103	.0303	.2271	.1974	.0615
#1	42.56	43.26	41.80	2.129	2.011	43.73	2.020	2.044	2.021	2.006
#2	42.48	43.14	41.52	2.124	2.022	43.55	2.021	2.045	2.016	2.009
#3	42.59	43.07	41.83	2.126	2.027	43.63	2.020	2.053	2.014	2.008
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value Range										

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.948	2.010	2.155	2.147	2.081	2.061	2.048
Stddev	.003	.003	.001	.003	.003	.002	.001
%RSD	.1431	.1344	.0640	.1600	.1550	.0872	.0646
#1	1.951	2.012	2.155	2.148	2.078	2.059	2.048
#2	1.946	2.010	2.156	2.143	2.083	2.063	2.049
#3	1.946	2.007	2.153	2.149	2.083	2.060	2.047
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Pass
Value Range							

Zoom In
Zoom Out

Sample Name: CCV Acquired: 3/31/2015 12:00:11 Type: QC
Method: 60102007_041712(v206) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2707.3	7507.2	46212.	2596.8
Stddev	5.4	7.9	144.	38.6
%RSD	.20131	.10517	.31186	1.4855
#1	2712.6	7515.5	46273.	2556.1
#2	2707.6	7499.8	46316.	2632.8
#3	2701.7	7506.3	46048.	2601.6

Zoom In
Zoom Out

Sample Name: CCB Acquired: 3/31/2015 12:04:07 Type: QC
Method: 60102007_041712(v206) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0001	-.0006	.0006	.0005	.0005	.0166	.0002	.0002	.0004
Stddev	.0000	.0122	.0003	.0002	.0001	.0029	.0000	.0001	.0001
%RSD	39.26	2160.	45.59	42.01	13.48	17.64	25.34	61.83	28.84
#1	-.0001	.0113	.0005	.0004	.0005	.0132	.0002	.0003	.0004
#2	.0000	-.0001	.0003	.0007	.0006	.0182	.0001	.0001	.0005
#3	-.0001	-.0130	.0009	.0003	.0005	.0184	.0001	.0001	.0003
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0001	.0459	.0930	.0307	.0004	F.0025	.0390	.0001	.0006
Stddev	.0002	.0070	.0275	.0206	.0001	.0007	.0107	.0001	.0005
%RSD	148.6	15.35	29.61	67.10	15.71	26.70	27.44	154.0	98.19
#1	.0004	.0505	.1247	.0071	.0004	.0032	.0364	.0003	.0012
#2	.0000	.0494	.0753	.0453	.0004	.0023	.0507	.0000	.0004
#3	.0001	.0378	.0790	.0396	.0003	.0019	.0298	.0001	.0001
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit						.0010			
Low Limit						-.0010			

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F.0020	-.0002	.0020	.0001	.0005	F.0022	.0000	.0004	.0001
Stddev	.0008	.0008	.0002	.0003	.0000	.0002	.0007	.0000	.0001
%RSD	39.39	390.9	11.68	258.4	7.370	9.932	2032.	9.999	118.2
#1	.0011	.0007	.0017	.0005	.0005	.0024	.0006	.0004	.0002
#2	.0023	-.0009	.0021	-.0001	.0006	.0022	.0002	.0003	.0000
#3	.0026	-.0004	.0021	.0000	.0005	.0019	-.0007	.0003	.0000
Check ?	Chk Fail	Chk Pass	None	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit	.0020					.0020			
Low Limit	-.0020					-.0020			

Zoom In
Zoom Out

Sample Name: CCB Acquired: 3/31/2015 12:04:07 Type: QC
Method: 60102007_041712(v206) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3253.9	7864.8	49068.	2609.1
Stddev	11.5	25.3	117.	17.7
%RSD	.35462	.32201	.23787	.67731
#1	3252.5	7868.3	49197.	2594.9
#2	3266.1	7888.2	48970.	2628.9
#3	3243.2	7837.9	49036.	2603.4

Zoom In Zoom Out

Sample Name: CCV Acquired: 3/31/2015 12:26:47 Type: QC
Method: 60102007_041712(v206) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2486	39.81	1.976	1.976	1.991	40.11	1.990	1.987	1.988	1.977
Stddev	.0015	.14	.001	.004	.005	.15	.001	.001	.004	.005
%RSD	.6073	.3512	.0612	.2277	.2358	.3735	.0513	.0230	.1965	.2312
#1	.2485	39.85	1.975	1.976	1.993	40.16	1.990	1.987	1.990	1.977
#2	.2471	39.66	1.975	1.971	1.986	39.94	1.991	1.988	1.984	1.972
#3	.2502	39.93	1.977	1.980	1.995	40.22	1.989	1.987	1.991	1.981
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value Range										

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	40.53	39.94	40.04	2.019	1.974	40.02	1.995	1.955	1.975	1.986
Stddev	.15	.12	.17	.008	.007	.10	.002	.001	.004	.004
%RSD	.3735	.3060	.4304	.4013	.3483	.2577	.1223	.0707	.1976	.2093
#1	40.64	39.97	40.00	2.015	1.967	40.08	1.993	1.953	1.972	1.984
#2	40.36	39.81	39.88	2.013	1.975	39.91	1.993	1.955	1.974	1.982
#3	40.60	40.05	40.22	2.028	1.980	40.09	1.998	1.956	1.979	1.990
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value Range										

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.014	1.999	1.979	2.015	1.978	1.984	1.985
Stddev	.001	.003	.003	.006	.003	.003	.001
%RSD	.0538	.1463	.1283	.3017	.1667	.1660	.0454
#1	2.014	1.998	1.979	2.012	1.974	1.984	1.985
#2	2.013	1.997	1.977	2.012	1.980	1.980	1.986
#3	2.015	2.002	1.982	2.022	1.979	1.987	1.985
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Pass
Value Range							

Zoom In Zoom Out

Sample Name: CCV Acquired: 3/31/2015 12:26:47 Type: QC
Method: 60102007_041712(v206) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2719.4	7527.2	46344.	2589.9
Stddev	2.7	4.2	319.	24.2
%RSD	.09948	.05548	.68759	.93581
#1	2722.5	7531.9	46518.	2570.2
#2	2717.7	7523.8	46537.	2616.9
#3	2718.0	7525.9	45976.	2582.5

Zoom In Zoom Out

Sample Name: CCB Acquired: 3/31/2015 12:35:01 Type: QC
Method: 60102007_041712(v206) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0002	.0148	.0007	.0008	.0005	.0104	.0002	.0003	.0003	.0006
Stddev	.0001	.0127	.0003	.0002	.0001	.0066	.0000	.0001	.0004	.0004
%RSD	58.19	86.15	47.09	30.41	14.69	63.52	17.61	43.83	124.5	63.89
#1	.0003	.0202	.0004	.0007	.0005	.0090	.0002	.0005	.0006	.0008
#2	.0001	.0002	.0011	.0010	.0006	.0046	.0002	.0002	-.0001	.0008
#3	.0002	.0240	.0007	.0005	.0005	.0176	.0002	.0003	.0005	.0001
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0098	.0340	.0022	.0004	.0005	.0052	.0003	.0001	.0007	.0001
Stddev	.0008	.0396	.0327	.0000	.0001	.0041	.0000	.0007	.0008	.0009
%RSD	8.365	116.3	1520.	10.41	18.54	79.85	8.489	1285.	113.6	776.6
#1	.0096	.0688	.0399	.0004	.0006	.0094	.0003	.0004	.0016	-.0005
#2	.0091	.0423	-.0184	.0004	.0005	.0049	.0003	.0004	.0003	.0011
#3	.0107	-.0090	-.0150	.0004	.0004	.0012	.0003	-.0007	.0002	-.0003
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0001	.0004	.0004	.0005	-.0001	.0003	.0004
Stddev	.0001	.0002	.0001	.0001	.0001	.0004	.0001
%RSD	98.21	44.15	20.03	20.21	126.4	116.9	18.70
#1	-.0001	.0004	.0005	.0005	.0000	.0006	.0004
#2	.0000	.0006	.0004	.0006	-.0002	.0004	.0004
#3	-.0002	.0002	.0003	.0004	-.0001	-.0001	.0003
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Zoom In Zoom Out

Sample Name: CCB Acquired: 3/31/2015 12:35:01 Type: QC
Method: 60102007_041712(v206) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3250.4	7843.5	48584.	2601.0
Stddev	3.6	7.7	211.	7.1
%RSD	.10927	.09867	.43493	.27266
#1	3254.4	7850.6	48701.	2592.9
#2	3248.9	7835.2	48711.	2603.9
#3	3247.8	7844.8	48340.	2606.2

Zoom In Zoom Out

Sample Name: FA23162-6 Acquired: 3/31/2015 12:46:14 Type: Unk
Method: 60102007_041712(v206) Mode: CONC Corr. Factor: 4.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	.0019	.1045	.0109	.0322	.0007	98.47	-.0002	.0007	.0017	.0020
Stddev	.0020	.0197	.0013	.0011	.0004	.44	.0001	.0001	.0002	.0008
%RSD	101.1	18.81	11.80	3.454	61.01	.4472	92.84	19.57	9.858	41.07
#1	.0029	.1270	.0094	.0329	.0010	98.71	.0000	.0005	.0018	.0014
#2	.0032	.0958	.0118	.0309	.0009	98.73	-.0001	.0008	.0015	.0016
#3	-.0003	.0907	.0114	.0328	.0002	97.96	-.0003	.0007	.0018	.0029

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	1.809	23.49	43.28	.0679	.0039	167.1	.0014	-.0060	.0012	.0053
Stddev	.011	.25	.20	.0004	.0002	.8	.0002	.0030	.0050	.0051
%RSD	.6170	1.067	.4733	.5591	5.832	.4750	15.48	50.01	420.2	95.47
#1	1.818	23.77	43.24	.0680	.0036	167.6	.0016	-.0094	-.0001	.0052
#2	1.812	23.43	43.50	.0675	.0041	167.5	.0012	-.0050	.0068	.0105
#3	1.796	23.28	43.10	.0682	.0040	166.2	.0015	-.0036	-.0031	.0003

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	2.038	-.0008	.4113	.0049	-.0026	.0010	.0136
Stddev	.002	.0009	.0016	.0002	.0030	.0006	.0002
%RSD	.0855	114.5	.3959	4.973	113.6	57.31	1.669
#1	2.036	-.0017	.4131	.0047	-.0060	.0003	.0134
#2	2.037	.0001	.4107	.0052	-.0007	.0014	.0139
#3	2.040	-.0009	.4100	.0047	-.0011	.0012	.0136

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	2941.0	7571.0	47076.	2598.2
Stddev	6.9	11.8	312.	2.2
%RSD	.23309	.15534	.66178	.08289
#1	2948.1	7583.7	46874.	2599.7
#2	2940.4	7568.8	47435.	2595.7
#3	2934.4	7560.5	46919.	2599.1

Zoom In Zoom Out

Sample Name: FA23162-8 Acquired: 3/31/2015 13:00:08 Type: Unk
Method: 60102007_041712(v206) Mode: CONC Corr. Factor: 4.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	-.0004	6.671	.0026	.0859	.0000	14.12	-.0001	-.0003	.0088	.0023
Stddev	.0006	.023	.0032	.0016	.000	.02	.0003	.0001	.0009	.0008
%RSD	134.3	.3473	125.0	1.913	880.3	.1720	265.1	42.79	9.724	34.08
#1	.0001	6.663	-.0007	.0878	-.0003	14.13	.0002	-.0004	.0092	.0016
#2	-.0010	6.697	.0058	.0848	.0000	14.14	-.0004	-.0003	.0093	.0032
#3	-.0004	6.653	.0026	.0851	.0002	14.09	-.0001	-.0002	.0078	.0022

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	5.305	2.308	3.155	.0195	-.0002	255.1	.0003	.0008	-.0022	-.0007
Stddev	.009	.102	.184	.0001	.0003	.5	.0007	.0018	.0014	.0031
%RSD	.1665	4.406	5.825	.6398	153.2	.1859	264.0	234.6	62.05	433.3
#1	5.300	2.417	3.357	.0194	-.0004	255.0	.0001	.0028	-.0037	-.0009
#2	5.300	2.291	2.997	.0195	.0001	255.6	.0010	-.0002	-.0021	-.0037
#3	5.315	2.215	3.111	.0196	-.0003	254.6	-.0003	-.0004	-.0009	.0025

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	9.511	-.0004	.0987	.2170	-.0028	.0074	.0161
Stddev	.043	.0002	.0007	.0045	.0011	.0011	.0003
%RSD	.4540	39.93	.6760	2.081	39.10	14.53	1.738
#1	9.561	-.0006	.0980	.2146	-.0036	.0061	.0163
#2	9.490	-.0003	.0993	.2142	-.0016	.0080	.0161
#3	9.483	-.0003	.0989	.2222	-.0031	.0080	.0158

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	2951.6	7686.5	47424.	2617.4
Stddev	4.9	5.2	81.	17.5
%RSD	.16514	.06774	.17176	.66759
#1	2955.2	7686.3	47335.	2637.6
#2	2946.1	7681.4	47442.	2608.1
#3	2953.6	7691.8	47495.	2606.6

Zoom In Zoom Out

Sample Name: FA22993-9 Acquired: 3/31/2015 13:04:16 Type: Unk
Method: 60102007_041712(v206) Mode: CONC Corr. Factor: 5.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	-.0012	.0609	-.0005	.0529	-.0001	11.08	.0000	.0005	.0000	.0003
Stddev	.0009	.0467	.0025	.0005	.0002	.05	.000	.0002	.0007	.0015
%RSD	69.58	76.63	506.9	1.022	203.1	.4911	3324.	43.92	1572.	572.0
#1	-.0010	.0070	-.0026	.0532	.0001	11.08	.0002	.0007	-.0007	-.0008
#2	-.0005	.0870	.0023	.0523	-.0004	11.02	-.0001	.0007	.0005	.0019
#3	-.0022	.0886	-.0013	.0533	.0000	11.13	-.0002	.0003	.0004	-.0004

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	1.179	2.445	5.281	.0072	-.0016	10.28	-.0002	.0005	-.0028	.0064
Stddev	.022	.107	.310	.0002	.0004	.07	.0007	.0031	.0030	.0064
%RSD	1.882	4.364	5.868	2.906	25.18	.6387	349.3	568.7	110.1	99.56
#1	1.180	2.553	5.021	.0071	-.0018	10.29	.0002	.0004	-.0062	.0131
#2	1.156	2.340	5.200	.0074	-.0017	10.35	-.0010	-.0025	-.0015	.0057
#3	1.200	2.440	5.624	.0070	-.0011	10.22	.0002	.0037	-.0006	.0004

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	2.734	.0004	.0680	-.0006	-.0019	.0004	.0119
Stddev	.003	.0004	.0003	.0003	.0026	.0003	.0003
%RSD	.0901	120.4	.3889	52.27	135.2	78.67	2.699
#1	2.736	.0007	.0682	-.0006	-.0017	.0002	.0121
#2	2.732	.0006	.0677	-.0003	.0006	.0002	.0115
#3	2.735	-.0001	.0681	-.0009	-.0045	.0008	.0120

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	3228.4	7942.6	49352.	2646.8
Stddev	5.1	6.8	220.	16.6
%RSD	.15693	.08522	.44604	.62563
#1	3234.0	7950.2	49310.	2647.9
#2	3224.3	7940.4	49155.	2662.8
#3	3226.8	7937.3	49590.	2629.8

Zoom In Zoom Out

Sample Name: FA22993-17 Acquired: 3/31/2015 13:08:25 Type: Unk
Method: 60102007_041712(v206) Mode: CONC Corr. Factor: 5.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	.0079	211.2	.1309	.0349	.0081	252.7	.5430	.3804	.0868	.1460
Stddev	.0009	.6	.0038	.0015	.0008	1.1	.0002	.0010	.0006	.0020
%RSD	11.49	.3070	2.880	4.395	10.31	.4279	.0446	.2594	.7238	1.336
#1	.0078	211.9	.1353	.0335	.0071	253.8	.5430	.3796	.0862	.1481
#2	.0088	211.2	.1291	.0348	.0087	252.6	.5429	.3801	.0874	.1457
#3	.0070	210.6	.1284	.0365	.0085	251.7	.5433	.3815	.0867	.1442

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	93.58	33.42	375.7	18.47	.0201	270.7	2.702	-.0121	-.0076	.0133
Stddev	.14	.14	1.9	.11	.0002	.7	.002	.0013	.0030	.0092
%RSD	.1548	.4160	.5169	.5683	1.173	.2529	.0822	10.47	40.03	69.39
#1	93.71	33.57	377.8	18.57	.0199	271.4	2.700	-.0120	-.0043	.0058
#2	93.61	33.39	375.1	18.49	.0201	270.6	2.702	-.0109	-.0103	.0105
#3	93.42	33.30	374.1	18.36	.0204	270.1	2.704	-.0134	-.0081	.0236

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	52.24	-.0012	.4405	.0957	.0128	.7610	6.784
Stddev	.08	.0014	.0031	.0011	.0035	.0012	.005
%RSD	.1444	121.2	.6975	1.130	27.61	.1600	.0751
#1	52.15	-.0011	.4409	.0961	.0168	.7624	6.789
#2	52.25	-.0026	.4373	.0945	.0115	.7600	6.782
#3	52.30	.0002	.4434	.0965	.0101	.7607	6.780

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	2779.0	7755.6	46367.	2603.0
Stddev	6.8	13.6	161.	24.2
%RSD	.24531	.17534	.34616	.92970
#1	2771.1	7740.4	46192.	2579.4
#2	2783.3	7766.5	46507.	2602.0
#3	2782.6	7759.9	46402.	2627.7

Zoom In Zoom Out

Sample Name: FA22993-21 Acquired: 3/31/2015 13:12:37 Type: Unk
Method: 60102007_041712(v206) Mode: CONC Corr. Factor: 5.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	.0066	143.3	.2257	.0111	.0107	698.8	1.246	.2612	.0348	.0085
Stddev	.0010	.2	.0035	.0011	.0006	1.2	.001	.0005	.0013	.0007
%RSD	15.89	.1714	1.548	9.580	5.751	.1735	.0820	.1873	3.644	8.420
#1	.0060	143.2	.2255	.0122	.0100	698.9	1.244	.2608	.0333	.0078
#2	.0059	143.6	.2293	.0110	.0112	700.0	1.246	.2617	.0357	.0084
#3	.0078	143.2	.2223	.0101	.0110	697.6	1.246	.2612	.0353	.0092

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	89.37	120.1	370.7	14.06	.0144	274.9	2.672	-.0146	-.0041	.0060
Stddev	.19	.1	1.2	.10	.0001	.6	.006	.0013	.0054	.0084
%RSD	.2091	.1137	.3341	.6887	.6148	.2272	.2211	8.789	131.9	140.5
#1	89.20	120.0	370.5	14.16	.0144	275.1	2.669	-.0133	.0000	-.0034
#2	89.57	120.2	372.1	14.02	.0144	275.4	2.668	-.0145	-.0020	.0127
#3	89.34	120.1	369.6	13.98	.0143	274.2	2.679	-.0159	-.0103	.0086

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	45.07	-.0031	.8353	.0510	.0137	.6840	11.20
Stddev	.05	.0005	.0006	.0005	.0040	.0025	.01
%RSD	.1185	15.51	.0674	.9564	29.37	.3599	.1317
#1	45.02	-.0037	.8358	.0504	.0129	.6853	11.18
#2	45.06	-.0028	.8353	.0514	.0181	.6855	11.20
#3	45.12	-.0028	.8347	.0511	.0101	.6811	11.21

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	2718.9	7612.1	46430.	2614.3
Stddev	5.2	3.1	154.	10.3
%RSD	.19214	.04135	.33245	.39303
#1	2715.4	7613.8	46253.	2625.5
#2	2716.3	7608.5	46501.	2605.3
#3	2724.9	7614.0	46536.	2612.0

Zoom In Zoom Out

Sample Name: MP28731-MB1 Acquired: 3/31/2015 13:16:49 Type: QC
Method: 60102007_041712(v206) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0001	.0134	-.0004	.0000	.0000	.0131	.0000	-.0001	-.0002	.0000
Stddev	.0003	.0051	.0004	.0005	.0000	.0020	.000	.0001	.0001	.000
%RSD	493.5	38.00	103.1	14060.	98.19	15.32	85.15	75.48	87.58	962.0
#1	-.0001	.0076	-.0004	-.0005	.0000	.0112	-.0001	-.0002	.0000	-.0002
#2	-.0004	.0172	.0000	.0004	.0000	.0152	-.0001	.0000	-.0001	.0001
#3	.0003	.0154	-.0008	.0001	.0001	.0128	.0000	-.0001	-.0003	.0000
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0214	.0431	.0083	.0002	-.0003	.0492	.0000	.0001	.0002	.0010
Stddev	.0041	.0201	.0106	.0000	.0001	.0169	.000	.0007	.0004	.0002
%RSD	19.38	46.63	127.2	22.84	39.35	34.39	430.7	776.9	148.5	14.77
#1	.0237	.0212	-.0020	.0002	-.0001	.0678	-.0001	-.0007	.0001	.0011
#2	.0238	.0608	.0192	.0001	-.0003	.0348	.0000	.0005	-.0001	.0009
#3	.0166	.0472	.0078	.0002	-.0003	.0450	.0001	.0004	.0007	.0012
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0245	-.0002	-.0001	-.0004	-.0008	.0000	.0009
Stddev	.0005	.0002	.0001	.0001	.0006	.000	.0000
%RSD	2.165	81.69	126.4	13.45	76.15	534.6	3.077
#1	.0251	-.0002	.0000	-.0003	-.0015	-.0001	.0009
#2	.0241	-.0004	-.0003	-.0004	-.0007	-.0002	.0009
#3	.0244	.0000	-.0001	-.0004	-.0003	.0002	.0009
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Zoom In Zoom Out

Sample Name: MP28731-MB1 Acquired: 3/31/2015 13:16:49 Type: QC
Method: 60102007_041712(v206) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3242.9	7862.0	49871.	2645.4
Stddev	6.8	6.4	378.	16.0
%RSD	.20940	.08153	.75707	.60583
#1	3247.2	7868.4	49676.	2636.9
#2	3246.4	7862.0	49630.	2635.3
#3	3235.0	7855.6	50306.	2663.8

Zoom In Zoom Out

Sample Name: MP28731-B1 Acquired: 3/31/2015 13:21:01 Type: QC
Method: 60102007_041712(v206) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0505	27.61	2.055	2.093	.0530	25.82	.0514	.5206	.2084	.2616
Stddev	.0005	.08	.001	.010	.0001	.09	.0000	.0004	.0005	.0008
%RSD	.8919	.2898	.0706	.4898	.2106	.3571	.0567	.0725	.2353	.3159
#1	.0510	27.54	2.055	2.092	.0528	25.76	.0514	.5204	.2078	.2626
#2	.0504	27.69	2.056	2.104	.0530	25.93	.0514	.5210	.2088	.2610
#3	.0502	27.59	2.053	2.084	.0530	25.78	.0515	.5204	.2085	.2614
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value										
Range										

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	27.13	25.75	25.74	.5210	.5267	25.86	.5323	.4942	.5139	2.038
Stddev	.08	.08	.11	.0018	.0007	.09	.0004	.0012	.0006	.004
%RSD	.2874	.3064	.4089	.3449	.1247	.3593	.0767	.2345	.1194	.1904
#1	27.10	25.68	25.62	.5190	.5260	25.82	.5318	.4955	.5145	2.041
#2	27.22	25.84	25.80	.5220	.5271	25.97	.5326	.4935	.5133	2.039
#3	27.07	25.74	25.80	.5222	.5272	25.80	.5324	.4935	.5139	2.034
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value										
Range										

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0315	.5644	.5347	.5351	2.011	.5050	.5188
Stddev	.0003	.0015	.0028	.0009	.000	.0013	.0004
%RSD	.8955	.2640	.5177	.1630	.0212	.2535	.0836
#1	.0312	.5627	.5339	.5341	2.012	.5036	.5183
#2	.0317	.5652	.5377	.5354	2.011	.5057	.5191
#3	.0316	.5654	.5324	.5357	2.011	.5058	.5190
Check ?	None	Chk Pass	None	None	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Zoom In
Zoom Out

Sample Name: MP28731-B1 Acquired: 3/31/2015 13:21:01 Type: QC
Method: 60102007_041712(v206) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2847.5	7574.0	47357.	2614.1
Stddev	4.0	10.5	245.	12.7
%RSD	.14190	.13844	.51701	.48477
#1	2849.4	7585.6	47639.	2626.0
#2	2842.9	7565.1	47201.	2615.6
#3	2850.3	7571.2	47232.	2600.8

Zoom In
Zoom Out

Sample Name: FA23021-5 Acquired: 3/31/2015 13:24:59 Type: Unk
Method: 60102007_041712(v206) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	.0000	.3093	.0280	.0092	.0001	45.22	.0000	.0001	.0051	.0004
Stddev	.0002	.0113	.0006	.0002	.0001	.07	.000	.0000	.0002	.0003
%RSD	51670.	3.648	2.169	2.103	70.16	.1630	148.3	30.12	4.680	74.90
#1	.0002	.3143	.0277	.0090	.0002	45.13	.0000	.0001	.0052	.0003
#2	.0001	.3172	.0286	.0093	.0000	45.25	.0000	.0001	.0048	.0008
#3	-.0003	.2964	.0275	.0093	.0001	45.26	-.0001	.0001	.0051	.0002

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	1.626	7.225	3.509	.0859	.0006	7.929	.0002	-.0019	.0002	.0012
Stddev	.015	.014	.021	.0001	.0001	.016	.0000	.0004	.0004	.0013
%RSD	.9240	.1933	.5945	.1155	14.11	.1992	27.71	22.70	261.2	105.3
#1	1.618	7.212	3.496	.0860	.0007	7.915	.0001	-.0020	.0005	.0008
#2	1.643	7.240	3.533	.0858	.0007	7.925	.0002	-.0015	-.0003	.0002
#3	1.616	7.224	3.499	.0859	.0005	7.946	.0001	-.0023	.0003	.0026

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	3.886	-.0003	.1391	.0020	-.0004	.0058	.0103
Stddev	.002	.0001	.0003	.0001	.0011	.0002	.0001
%RSD	.0407	18.51	.2496	3.396	300.2	3.383	1.058
#1	3.888	-.0003	.1387	.0021	.0008	.0057	.0102
#2	3.885	-.0003	.1394	.0020	-.0004	.0058	.0103
#3	3.887	-.0002	.1391	.0020	-.0015	.0061	.0104

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	3001.7	7714.5	49062.	2692.1
Stddev	6.9	15.1	123.	11.6
%RSD	.22952	.19597	.25060	.43082
#1	2994.0	7697.1	49204.	2679.2
#2	3007.2	7721.9	48997.	2695.4
#3	3004.0	7724.5	48985.	2701.7

Zoom In
Zoom Out

Sample Name: MP28731-D1 Acquired: 3/31/2015 13:29:07 Type: Unk
Method: 60102007_041712(v206) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	-.0001	.2949	.0285	.0093	.0001	45.65	-.0001	.0000	.0053	.0009
Stddev	.0001	.0175	.0003	.0001	.0001	.23	.0000	.0001	.0001	.0003
%RSD	83.56	5.949	1.120	1.035	49.56	.5068	61.88	246.2	2.776	31.82
#1	-.0002	.2765	.0285	.0094	.0001	45.44	.0000	.0000	.0054	.0010
#2	.0000	.2969	.0282	.0092	.0001	45.90	-.0001	.0001	.0054	.0012
#3	-.0002	.3114	.0288	.0093	.0002	45.62	-.0001	.0000	.0052	.0006

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	1.615	7.253	3.538	.0868	.0004	7.994	.0001	-.0013	-.0007	.0017
Stddev	.005	.022	.021	.0004	.0001	.016	.0001	.0005	.0009	.0005
%RSD	.3391	.3070	.5832	.4239	40.26	.1946	79.26	36.62	117.6	31.37
#1	1.610	7.268	3.533	.0871	.0005	7.981	.0002	-.0013	-.0005	.0014
#2	1.621	7.262	3.561	.0868	.0003	8.011	.0002	-.0008	-.0017	.0023
#3	1.616	7.227	3.520	.0864	.0003	7.989	.0000	-.0017	.0000	.0014

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	3.937	-.0002	.1402	.0016	-.0006	.0061	.0097
Stddev	.005	.0002	.0004	.0002	.0006	.0002	.0000
%RSD	.1349	149.0	.2620	11.26	89.56	3.316	.3963
#1	3.933	-.0003	.1400	.0018	.0000	.0062	.0097
#2	3.935	.0001	.1407	.0016	-.0010	.0058	.0098
#3	3.943	-.0003	.1401	.0014	-.0009	.0062	.0097

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	3000.7	7713.6	49002.	2703.9
Stddev	6.2	13.3	260.	18.3
%RSD	.20821	.17213	.53024	.67694
#1	2997.9	7705.4	49006.	2720.7
#2	2996.4	7706.6	48739.	2684.4
#3	3007.8	7729.0	49259.	2706.6

Zoom In
Zoom Out

Sample Name: MP28731-SD1 Acquired: 3/31/2015 13:33:13 Type: Unk
Method: 60102007_041712(v206) Mode: CONC Corr. Factor: 5.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	-.0007	.3431	.0321	.0106	.0001	47.99	-.0001	.0001	.0053	.0018
Stddev	.0013	.0710	.0022	.0017	.0003	.10	.0003	.0000	.0003	.0007
%RSD	195.6	20.68	6.869	16.02	335.4	.2038	258.2	38.58	6.544	37.36
#1	.0008	.4199	.0305	.0125	.0001	48.06	-.0001	.0001	.0049	.0024
#2	-.0016	.3296	.0346	.0101	.0004	47.88	.0002	.0001	.0056	.0011
#3	-.0012	.2799	.0311	.0092	-.0002	48.02	-.0004	.0002	.0054	.0018

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	1.664	7.509	3.755	.0910	-.0015	8.167	-.0003	-.0031	-.0062	.0013
Stddev	.008	.172	.081	.0005	.0002	.023	.0002	.0008	.0034	.0066
%RSD	.4651	2.298	2.159	.5417	11.27	.2763	78.13	25.37	55.45	506.8
#1	1.664	7.705	3.841	.0915	-.0017	8.157	.0000	-.0031	-.0036	.0031
#2	1.656	7.379	3.681	.0908	-.0013	8.193	-.0004	-.0038	-.0049	.0068
#3	1.672	7.443	3.741	.0906	-.0015	8.151	-.0004	-.0023	-.0101	-.0060

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	4.065	-.0015	.1435	.0007	.0048	.0057	.0126
Stddev	.009	.0016	.0006	.0005	.0030	.0017	.0002
%RSD	.2135	103.5	.4007	69.79	62.17	30.05	1.428
#1	4.057	.0000	.1434	.0006	.0076	.0076	.0127
#2	4.062	-.0015	.1441	.0003	.0050	.0052	.0127
#3	4.074	-.0032	.1430	.0013	.0017	.0043	.0124

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	3178.7	7839.8	49344.	2685.1
Stddev	6.5	8.6	198.	2.6
%RSD	.20515	.10930	.40206	.09506
#1	3172.5	7830.7	49187.	2682.2
#2	3178.2	7847.7	49567.	2686.7
#3	3185.5	7840.9	49278.	2686.5

Zoom In Zoom Out

Sample Name: CCV Acquired: 3/31/2015 13:37:21 Type: QC
Method: 60102007_041712(v206) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2505	39.32	1.985	1.986	1.978	39.64	1.991	1.990	1.965	1.973
Stddev	.0011	.19	.002	.006	.007	.15	.001	.001	.007	.005
%RSD	.4241	.4730	.0937	.2937	.3662	.3675	.0440	.0517	.3362	.2480
#1	.2494	39.19	1.987	1.984	1.972	39.56	1.990	1.989	1.958	1.968
#2	.2506	39.53	1.983	1.992	1.986	39.81	1.992	1.991	1.972	1.978
#3	.2515	39.24	1.986	1.981	1.975	39.55	1.992	1.990	1.965	1.973
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value										
Range										

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	40.34	39.67	40.05	2.022	1.977	39.66	2.011	1.960	1.984	1.990
Stddev	.10	.23	.23	.008	.010	.16	.000	.001	.001	.003
%RSD	.2533	.5732	.5710	.3832	.5096	.4124	.0053	.0686	.0676	.1279
#1	40.24	39.54	39.91	2.014	1.966	39.57	2.011	1.960	1.986	1.991
#2	40.44	39.93	40.32	2.029	1.980	39.84	2.011	1.959	1.983	1.991
#3	40.33	39.53	39.94	2.022	1.986	39.55	2.011	1.961	1.983	1.987
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value										
Range										

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.022	2.021	1.958	2.009	1.984	1.984	1.990
Stddev	.001	.003	.008	.006	.003	.003	.001
%RSD	.0641	.1659	.4256	.3095	.1351	.1627	.0598
#1	2.022	2.024	1.953	2.003	1.981	1.981	1.991
#2	2.020	2.020	1.968	2.015	1.984	1.987	1.990
#3	2.023	2.017	1.954	2.009	1.986	1.983	1.989
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Pass
Value							
Range							

Zoom In Zoom Out

Sample Name: CCV Acquired: 3/31/2015 13:37:21 Type: QC
Method: 60102007_041712(v206) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2701.0	7453.6	46304.	2575.5
Stddev	5.2	2.9	248.	4.1
%RSD	.19350	.03858	.53596	.15914
#1	2705.1	7455.6	46544.	2579.6
#2	2702.8	7454.9	46048.	2571.4
#3	2695.1	7450.3	46320.	2575.6

Zoom In Zoom Out

Sample Name: CCB Acquired: 3/31/2015 13:41:17 Type: QC
Method: 60102007_041712(v206) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000	.0158	.0011	.0005	.0003	.0055	.0002	.0002	.0002
Stddev	.000	.0235	.0006	.0005	.0000	.0049	.0000	.0000	.0001
%RSD	3740.	149.2	58.31	84.82	14.01	88.57	6.970	18.88	45.33
#1	-.0002	.0370	.0008	.0000	.0003	.0111	.0002	.0002	.0003
#2	.0002	.0199	.0018	.0010	.0004	.0034	.0001	.0002	.0003
#3	.0000	-.0095	.0006	.0006	.0004	.0020	.0002	.0002	.0001
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0006	.0446	.0426	-.0319	.0003	F.0027	.0067	.0002	-.0005
Stddev	.0003	.0114	.0231	.0383	.0001	.0008	.0087	.0001	.0003
%RSD	47.29	25.58	54.26	120.2	20.50	30.72	130.4	49.77	62.82
#1	.0007	.0574	.0334	.0041	.0004	.0036	.0041	.0003	-.0008
#2	.0007	.0407	.0690	-.0277	.0004	.0025	.0164	.0001	-.0003
#3	.0003	.0356	.0256	-.0722	.0003	.0020	-.0004	.0001	-.0003
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit						.0010			
Low Limit						-.0010			

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0015	.0014	.0001	.0004	.0003	F.0026	.0004	.0002	.0003
Stddev	.0006	.0006	.0005	.0001	.0001	.0002	.0004	.0002	.0001
%RSD	40.86	45.91	439.2	29.90	15.67	7.570	100.5	112.0	21.99
#1	.0020	.0021	-.0004	.0005	.0003	.0028	.0006	.0000	.0004
#2	.0017	.0012	.0005	.0003	.0003	.0026	.0007	.0002	.0003
#3	.0008	.0009	.0002	.0003	.0004	.0024	-.0001	.0004	.0003
Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit						.0020			
Low Limit						-.0020			

Zoom In Zoom Out

Sample Name: CCB Acquired: 3/31/2015 13:41:17 Type: QC
Method: 60102007_041712(v206) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3239.3	7806.4	49034.	2600.3
Stddev	5.1	7.9	253.	15.2
%RSD	.15789	.10155	.51578	.58330
#1	3242.1	7805.1	48881.	2615.2
#2	3242.4	7814.9	48896.	2600.9
#3	3233.4	7799.3	49326.	2584.9

Zoom In Zoom Out

Sample Name: MP28731-PS1 Acquired: 3/31/2015 13:45:28 Type: Unk
Method: 60102007_041712(v206) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	.0491	2.873	.1330	.2703	.0529	49.67	.0524	.0533	.0576	.1064
Stddev	.0005	.034	.0008	.0010	.0001	.11	.0001	.0002	.0002	.0002
%RSD	.9947	1.197	.5792	.3691	.1883	.2142	.1753	.2891	.3958	.1942
#1	.0496	2.864	.1334	.2694	.0529	49.66	.0523	.0533	.0578	.1064
#2	.0488	2.844	.1321	.2714	.0530	49.57	.0524	.0532	.0574	.1067
#3	.0487	2.911	.1335	.2703	.0528	49.78	.0525	.0535	.0577	.1062

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	4.657	17.14	8.200	.1379	.1051	18.49	.1094	.0467	.1049	.1047
Stddev	.033	.08	.070	.0006	.0001	.03	.0002	.0005	.0013	.0013
%RSD	.7069	.4557	.8570	.4556	.0617	.1852	.2107	1.129	1.223	1.220
#1	4.632	17.06	8.178	.1380	.1052	18.46	.1094	.0470	.1060	.1049
#2	4.694	17.13	8.278	.1385	.1051	18.48	.1091	.0471	.1035	.1033
#3	4.646	17.22	8.143	.1373	.1052	18.53	.1096	.0461	.1051	.1058

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	3.768	.0525	.1871	.1055	.1021	.0574	.2731
Stddev	.002	.0001	.0004	.0004	.0009	.0005	.0004
%RSD	.0580	.2059	.1871	.3465	.8351	.8101	.1591
#1	3.767	.0524	.1868	.1058	.1013	.0573	.2730
#2	3.768	.0525	.1875	.1057	.1030	.0579	.2728
#3	3.771	.0526	.1871	.1051	.1022	.0570	.2736

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	2909.9	7700.3	48044.	2681.1
Stddev	3.5	12.8	69.	25.1
%RSD	.12130	.16576	.14270	.93477
#1	2911.4	7699.4	48059.	2656.4
#2	2912.5	7713.5	47969.	2706.5
#3	2905.9	7688.0	48104.	2680.4

Zoom In Zoom Out

Sample Name: MP28731-S1 Acquired: 3/31/2015 13:49:32 Type: Unk
Method: 60102007_041712(v206) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	.0505	27.21	2.049	2.078	.0523	69.80	.0502	.5119	.2099	.2622
Stddev	.0003	.08	.004	.011	.0002	.19	.0000	.0008	.0007	.0004
%RSD	.5926	.2869	.2176	.5431	.4525	.2745	.0844	.1510	.3158	.1581
#1	.0501	27.23	2.054	2.090	.0526	69.91	.0502	.5127	.2097	.2617
#2	.0506	27.12	2.045	2.067	.0522	69.58	.0502	.5117	.2094	.2623
#3	.0507	27.28	2.049	2.077	.0523	69.92	.0502	.5112	.2107	.2625

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	28.27	32.65	28.60	.6033	.5177	33.46	.5250	.4950	.5047	2.040
Stddev	.10	.09	.18	.0016	.0006	.09	.0007	.0024	.0011	.005
%RSD	.3596	.2782	.6270	.2659	.1098	.2631	.1323	.4931	.2145	.2561
#1	28.33	32.76	28.70	.6015	.5183	33.54	.5258	.4935	.5056	2.046
#2	28.15	32.58	28.39	.6040	.5175	33.37	.5247	.4978	.5035	2.040
#3	28.33	32.62	28.70	.6045	.5172	33.48	.5246	.4935	.5049	2.036

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	3.769	.5475	.6638	.5345	1.997	.5089	.5236
Stddev	.009	.0020	.0013	.0014	.005	.0012	.0005
%RSD	.2451	.3584	.1980	.2590	.2602	.2262	.1017
#1	3.780	.5497	.6653	.5333	1.994	.5076	.5242
#2	3.767	.5469	.6634	.5341	2.003	.5093	.5235
#3	3.761	.5459	.6627	.5360	1.993	.5098	.5231

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	2780.1	7629.4	47271.	2671.7
Stddev	5.4	11.9	159.	32.1
%RSD	.19503	.15612	.33607	1.2008
#1	2783.3	7618.2	47414.	2668.3
#2	2773.8	7628.1	47300.	2705.3
#3	2783.1	7641.9	47100.	2641.4

Zoom In Zoom Out

Sample Name: MP28731-S2 Acquired: 3/31/2015 13:53:30 Type: Unk
Method: 60102007_041712(v206) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	.0508	27.68	2.053	2.098	.0532	71.14	.0506	.5162	.2147	.2654
Stddev	.0003	.10	.002	.003	.0003	.28	.0001	.0005	.0005	.0003
%RSD	.5604	.3660	.0828	.1457	.5576	.3894	.1140	.0935	.2338	.1235
#1	.0507	27.57	2.054	2.095	.0530	70.82	.0507	.5160	.2151	.2657
#2	.0505	27.77	2.051	2.099	.0530	71.29	.0506	.5159	.2141	.2651
#3	.0511	27.70	2.053	2.101	.0535	71.32	.0507	.5168	.2148	.2654

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	28.75	33.00	29.07	.6122	.5215	34.03	.5276	.4988	.5066	2.044
Stddev	.15	.19	.11	.0011	.0008	.11	.0004	.0007	.0010	.002
%RSD	.5106	.5857	.3823	.1864	.1491	.3372	.0705	.1331	.1998	.0969
#1	28.58	32.79	28.94	.6135	.5210	33.93	.5276	.4981	.5073	2.045
#2	28.80	33.18	29.14	.6118	.5212	34.00	.5272	.4994	.5054	2.046
#3	28.86	33.03	29.12	.6114	.5224	34.15	.5279	.4988	.5070	2.042

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	3.790	.5473	.6725	.5424	2.017	.5137	.5284
Stddev	.005	.0006	.0018	.0013	.003	.0007	.0007
%RSD	.1226	.1067	.2680	.2384	.1454	.1376	.1291
#1	3.793	.5472	.6704	.5439	2.014	.5144	.5277
#2	3.785	.5468	.6734	.5421	2.018	.5135	.5284
#3	3.793	.5480	.6737	.5413	2.020	.5131	.5291

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	2777.3	7642.6	47034.	2634.0
Stddev	5.4	8.9	112.	25.9
%RSD	.19416	.11647	.23815	.98487
#1	2782.6	7652.9	46924.	2663.9
#2	2771.8	7638.5	47148.	2619.2
#3	2777.6	7636.6	47030.	2618.8

Zoom In Zoom Out

Sample Name: FA23021-6 Acquired: 3/31/2015 13:57:28 Type: Unk
Method: 60102007_041712(v206) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	-.0001	.4497	.0309	.0081	.0001	46.88	.0000	.0001	.0052	.0004
Stddev	.0002	.0204	.0003	.0001	.0000	.24	.000	.0002	.0004	.0001
%RSD	154.0	4.537	.9980	1.667	36.74	.5017	265.2	117.7	7.089	13.37
#1	.0001	.4330	.0311	.0082	.0002	46.76	.0000	.0000	.0054	.0004
#2	-.0003	.4437	.0310	.0079	.0001	46.73	-.0001	.0002	.0055	.0003
#3	-.0003	.4725	.0305	.0082	.0001	47.15	.0000	.0002	.0048	.0005

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	1.700	7.458	3.489	.0825	-.0002	7.862	.0003	-.0010	-.0001	.0012
Stddev	.016	.033	.040	.0003	.0001	.037	.0002	.0002	.0006	.0014
%RSD	.9363	.4429	1.142	.3615	34.43	.4734	58.65	21.91	431.8	120.2
#1	1.690	7.431	3.456	.0825	-.0002	7.839	.0001	-.0008	-.0006	.0021
#2	1.691	7.449	3.533	.0822	-.0001	7.841	.0003	-.0010	-.0003	-.0005
#3	1.718	7.495	3.479	.0828	-.0003	7.905	.0004	-.0013	.0005	.0019

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	3.880	-.0005	.1414	.0071	.0005	.0057	.0116
Stddev	.004	.0000	.0007	.0003	.0005	.0002	.0001
%RSD	.1051	6.187	.4714	4.529	100.2	4.028	.7034
#1	3.875	-.0005	.1411	.0069	.0002	.0058	.0115
#2	3.883	-.0005	.1409	.0068	.0002	.0055	.0117
#3	3.881	-.0006	.1421	.0074	.0010	.0059	.0115

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	2978.6	7683.6	48196.	2654.1
Stddev	3.7	9.9	171.	31.6
%RSD	.12391	.12895	.35542	1.1907
#1	2982.0	7692.1	48141.	2676.2
#2	2974.7	7686.0	48388.	2668.1
#3	2979.3	7672.7	48059.	2617.9

Zoom In
Zoom Out

Sample Name: FA23021-7 Acquired: 3/31/2015 14:01:35 Type: Unk
Method: 60102007_041712(v206) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	.0003	.0403	.0029	.0141	.0001	84.61	-.0001	.0001	.0017	.0005
Stddev	.0003	.0130	.0002	.0003	.0002	.51	.0000	.0000	.0002	.0002
%RSD	97.86	32.26	8.102	2.394	190.7	.6057	6.408	43.67	14.11	34.27
#1	.0000	.0400	.0032	.0141	.0001	84.08	-.0001	.0001	.0019	.0004
#2	.0006	.0534	.0027	.0137	-.0001	85.10	-.0001	.0001	.0016	.0007
#3	.0003	.0274	.0028	.0144	.0002	84.66	-.0001	.0001	.0015	.0004

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	7.206	1.168	11.26	.0397	.0036	58.30	.0010	-.0023	.0002	.0013
Stddev	.074	.018	.11	.0000	.0001	.32	.0001	.0006	.0003	.0014
%RSD	1.022	1.563	.9410	.0508	2.324	.5446	5.255	27.78	170.3	104.9
#1	7.130	1.155	11.17	.0397	.0036	57.98	.0010	-.0016	.0000	.0005
#2	7.277	1.189	11.38	.0398	.0037	58.62	.0010	-.0029	.0005	.0006
#3	7.210	1.160	11.24	.0398	.0035	58.31	.0011	-.0024	.0000	.0030

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	4.051	-.0002	.1631	.0017	.0000	.0043	.0121
Stddev	.005	.0003	.0009	.0002	.001	.0003	.0000
%RSD	.1360	155.7	.5718	12.89	1903.	7.812	.3819
#1	4.056	.0001	.1623	.0015	.0001	.0040	.0121
#2	4.045	-.0005	.1641	.0019	-.0006	.0047	.0120
#3	4.051	-.0001	.1628	.0017	.0004	.0042	.0121

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	2817.0	7524.2	46551.	2606.9
Stddev	2.6	9.4	48.	15.6
%RSD	.09402	.12518	.10285	.59752
#1	2818.0	7521.9	46606.	2624.9
#2	2814.0	7516.2	46531.	2597.5
#3	2819.0	7534.6	46517.	2598.4

Zoom In
Zoom Out

Sample Name: FA23021-8 Acquired: 3/31/2015 14:05:42 Type: Unk
Method: 60102007_041712(v206) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	.0001	.1884	.0187	.0169	.0001	81.64	-.0001	.0000	.0008	.0003
Stddev	.0006	.0144	.0006	.0006	.0000	1.02	.0000	.0001	.0002	.0003
%RSD	706.6	7.667	3.333	3.540	50.73	1.251	9.715	5302.	19.55	101.1
#1	-.0003	.1743	.0180	.0176	.0001	82.26	-.0001	.0000	.0008	.0000
#2	.0007	.2031	.0190	.0164	.0000	82.19	-.0001	.0001	.0006	.0005
#3	-.0002	.1876	.0191	.0167	.0001	80.46	-.0001	-.0001	.0009	.0003

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	7.050	.8455	6.176	.0392	.0030	63.63	.0004	-.0032	.0009	.0003
Stddev	.108	.0556	.068	.0003	.0002	.82	.0001	.0004	.0005	.0020
%RSD	1.538	6.581	1.093	.6421	5.106	1.295	18.41	13.33	53.50	607.0
#1	7.136	.7815	6.252	.0395	.0031	64.19	.0005	-.0029	.0007	.0020
#2	7.084	.8727	6.155	.0390	.0030	64.01	.0004	-.0037	.0015	.0010
#3	6.928	.8823	6.122	.0390	.0028	62.68	.0004	-.0031	.0006	-.0020

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	4.863	-.0009	.1388	.0076	-.0001	.0016	.0242
Stddev	.007	.0001	.0021	.0003	.0006	.0001	.0001
%RSD	.1491	15.67	1.493	4.590	638.9	3.854	.2794
#1	4.871	-.0010	.1402	.0072	.0003	.0016	.0243
#2	4.857	-.0009	.1398	.0077	-.0008	.0017	.0242
#3	4.860	-.0007	.1364	.0079	.0002	.0016	.0242

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	2788.2	7472.7	45554.	2613.0
Stddev	3.6	8.3	466.	33.9
%RSD	.13008	.11154	1.0223	1.2984
#1	2787.3	7478.0	45017.	2577.7
#2	2785.2	7463.1	45833.	2616.0
#3	2792.2	7477.2	45813.	2645.3

Zoom In
Zoom Out

Sample Name: FA23021-9 Acquired: 3/31/2015 14:09:48 Type: Unk
Method: 60102007_041712(v206) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	-.0004	.1106	.0107	.0172	.0000	43.85	.0000	.0000	.0013	.0000
Stddev	.0004	.0100	.0004	.0001	.0002	.13	.000	.0001	.0001	.0002
%RSD	106.3	9.027	3.640	.8302	317.2	.2953	78.93	212.3	5.372	10590.
#1	-.0008	.0993	.0107	.0173	-.0001	43.70	.0000	.0001	.0013	-.0002
#2	-.0001	.1141	.0103	.0170	.0000	43.95	.0000	.0000	.0014	.0001
#3	-.0002	.1183	.0111	.0172	.0002	43.90	.0000	.0000	.0013	.0001

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	3.559	2.760	6.853	.0397	.0040	56.09	.0000	-.0023	.0000	.0011
Stddev	.016	.036	.056	.0001	.0001	.15	.0000	.0003	.0005	.0006
%RSD	.4524	1.319	.8132	.1469	2.290	.2604	614.5	14.72	969.1	50.78
#1	3.540	2.760	6.891	.0398	.0041	55.95	.0000	-.0025	-.0004	.0017
#2	3.567	2.797	6.789	.0397	.0041	56.24	.0001	-.0019	.0006	.0006
#3	3.569	2.724	6.880	.0397	.0039	56.07	.0000	-.0025	-.0001	.0010

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	3.953	-.0003	.1723	.0033	-.0006	.0026	.0061
Stddev	.007	.0002	.0006	.0001	.0009	.0001	.0000
%RSD	.1710	53.56	.3678	2.476	134.2	4.475	.5219
#1	3.949	-.0004	.1720	.0033	-.0009	.0026	.0061
#2	3.949	-.0001	.1730	.0034	.0003	.0027	.0061
#3	3.960	-.0005	.1719	.0033	-.0013	.0024	.0062

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	2876.3	7584.5	46250.	2561.9
Stddev	9.9	19.0	160.	13.8
%RSD	.34317	.24998	.34514	.53730
#1	2886.3	7602.3	46167.	2575.9
#2	2876.0	7586.5	46434.	2561.5
#3	2866.5	7564.6	46149.	2548.3

Zoom In
Zoom Out

Sample Name: FA23021-10 Acquired: 3/31/2015 14:13:57 Type: Unk
Method: 60102007_041712(v206) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)
Avg	.0003	.0258	.0085	.0137	.0001	63.58	.0002	.0000	.0007
Stddev	.0002	.0199	.0002	.0001	.0001	.17	.0000	.0001	.0003
%RSD	67.23	77.23	2.713	.5452	97.47	.2695	19.25	463.3	45.44
#1	.0003	.0346	.0086	.0137	.0000	63.46	.0002	.0001	.0004
#2	.0004	.0030	.0087	.0138	.0002	63.51	.0001	-.0001	.0006
#3	.0001	.0398	.0083	.0138	.0001	63.78	.0002	.0000	.0011

Elem	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
IS Ref	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)
Avg	.0002	2.509	2.223	8.697	.0317	.0039	F87.84	.0001	-.0020
Stddev	.0002	.006	.016	.009	.0001	.0002	.23	.0000	.0007
%RSD	94.63	.2608	.7167	.0996	.3677	5.167	.2663	65.89	32.95
#1	.0002	2.503	2.209	8.691	.0318	.0040	87.67	.0001	-.0017
#2	.0000	2.516	2.220	8.707	.0317	.0036	87.75	.0000	-.0028
#3	.0003	2.509	2.240	8.694	.0315	.0040	88.11	.0001	-.0016

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	.0006	-.0005	4.321	-.0008	.1252	.0009	-.0005	.0020	.0099
Stddev	.0002	.0004	.008	.0003	.0001	.0002	.0007	.0002	.0001
%RSD	29.37	78.04	.1836	38.19	.1105	17.78	154.8	12.65	.9550
#1	.0008	-.0007	4.313	-.0005	.1250	.0009	-.0006	.0022	.0098
#2	.0005	.0000	4.321	-.0008	.1253	.0008	-.0011	.0018	.0099
#3	.0004	-.0007	4.329	-.0010	.1253	.0011	.0003	.0019	.0100

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	2788.2	7492.3	45814.	2559.1
Stddev	2.3	5.7	19.	12.9
%RSD	.08119	.07668	.04144	.50299
#1	2789.6	7496.3	45828.	2567.3
#2	2789.3	7494.9	45792.	2565.7
#3	2785.6	7485.7	45822.	2544.2

Zoom In Zoom Out

Sample Name: FA23021-11 Acquired: 3/31/2015 14:18:05 Type: Unk
Method: 60102007_041712(v206) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	-.0003	.2406	.0644	.0398	.0001	83.18	-.0001	.0000	.0019	-.0002
Stddev	.0002	.0102	.0007	.0002	.0001	.01	.0000	.0001	.0001	.0001
%RSD	69.71	4.221	1.024	.5335	148.4	.0128	93.35	141.7	5.184	87.48
#1	-.0004	.2515	.0636	.0399	.0001	83.17	-.0001	.0001	.0018	-.0003
#2	-.0001	.2314	.0646	.0395	.0001	83.19	.0000	.0000	.0020	.0000
#3	-.0005	.2387	.0648	.0399	.0000	83.17	-.0001	.0001	.0020	-.0001

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	.1749	3.331	9.949	.0226	.0003	21.99	.0009	-.0029	.0008	.0004
Stddev	.0077	.028	.031	.0001	.0001	.00	.0000	.0005	.0011	.0003
%RSD	4.390	.8335	.3160	.5819	31.19	.0111	5.515	17.07	145.1	85.01
#1	.1778	3.299	9.954	.0227	.0004	22.00	.0009	-.0027	.0008	.0000
#2	.1662	3.347	9.977	.0225	.0002	22.00	.0008	-.0035	.0018	.0006
#3	.1807	3.347	9.915	.0224	.0004	21.99	.0008	-.0026	-.0004	.0004

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	2.232	-.0004	.2169	.0082	-.0006	.0035	.3310
Stddev	.007	.0001	.0007	.0010	.0002	.0000	.0003
%RSD	.3179	35.18	.3429	11.88	30.90	.5758	.0876
#1	2.224	-.0003	.2174	.0082	-.0007	.0035	.3307
#2	2.235	-.0003	.2161	.0092	-.0008	.0035	.3312
#3	2.236	-.0005	.2173	.0072	-.0004	.0035	.3312

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	2892.2	7763.9	47219.	2630.5
Stddev	4.6	11.2	162.	16.8
%RSD	.15812	.14465	.34258	.63886
#1	2887.0	7756.0	47082.	2636.2
#2	2895.6	7776.8	47397.	2611.6
#3	2894.0	7759.0	47176.	2643.8

Zoom In Zoom Out

Sample Name: FA23021-5F Acquired: 3/31/2015 14:22:12 Type: Unk
Method: 60102007_041712(v206) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	-.0001	.3389	.0324	.0070	.0001	45.78	.0000	.0000	.0056	.0002
Stddev	.0002	.0181	.0003	.0006	.0000	.16	.000	.0000	.0002	.0001
%RSD	229.9	5.346	1.014	7.936	43.04	.3417	142.9	1534.	4.055	88.64
#1	.0001	.3426	.0327	.0071	.0001	45.96	.0000	.0000	.0055	.0002
#2	-.0001	.3192	.0322	.0064	.0002	45.74	-.0001	.0000	.0059	.0003
#3	-.0004	.3549	.0321	.0074	.0001	45.66	.0000	.0000	.0055	.0000

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	1.994	6.789	3.106	.0874	-.0004	8.031	-.0001	-.0014	.0000	.0022
Stddev	.004	.025	.029	.0003	.0000	.014	.0002	.0003	.0008	.0012
%RSD	.2055	.3634	.9333	.2916	12.67	.1799	147.3	25.22	9698.	55.21
#1	1.991	6.813	3.109	.0876	-.0004	8.024	-.0004	-.0011	.0000	.0014
#2	1.992	6.764	3.075	.0871	-.0004	8.048	-.0001	-.0013	.0009	.0037
#3	1.999	6.789	3.133	.0875	-.0003	8.022	.0000	-.0017	-.0008	.0016

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	3.929	-.0003	.1372	.0015	-.0003	.0058	.0082
Stddev	.014	.0003	.0003	.0001	.0003	.0001	.0000
%RSD	.3480	106.5	.2281	5.288	137.9	2.510	.3554
#1	3.923	-.0006	.1375	.0014	-.0001	.0058	.0082
#2	3.919	-.0004	.1369	.0015	-.0006	.0060	.0082
#3	3.945	.0000	.1373	.0015	.0000	.0057	.0083

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	3006.5	7824.4	47818.	2610.7
Stddev	12.2	27.9	197.	18.1
%RSD	.40444	.35616	.41158	.69361
#1	3020.5	7855.7	47692.	2601.1
#2	2999.7	7814.8	48045.	2599.4
#3	2999.2	7802.5	47718.	2631.6

Zoom In Zoom Out

Sample Name: CCV Acquired: 3/31/2015 14:26:19 Type: QC
Method: 60102007_041712(v206) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2489	40.99	1.953	1.975	2.030	41.21	2.010	2.001	2.035	2.002
Stddev	.0005	.16	.005	.006	.007	.08	.003	.004	.003	.004
%RSD	.2073	.3849	.2494	.3160	.3393	.2008	.1466	.2062	.1481	.1750
#1	.2487	40.81	1.950	1.968	2.022	41.11	2.010	1.999	2.032	1.999
#2	.2495	41.10	1.950	1.975	2.033	41.24	2.008	1.999	2.038	2.006
#3	.2485	41.07	1.959	1.981	2.034	41.26	2.014	2.006	2.034	2.003
Check ?	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass
Value																				
Range																				

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	41.07	40.85	40.43	2.020	1.968	41.15	1.980	1.973	1.966	1.968
Stddev	.18	.22	.07	.002	.013	.14	.005	.002	.007	.004
%RSD	.4347	.5329	.1630	.1206	.6663	.3342	.2657	.0797	.3512	.2228
#1	40.96	40.60	40.36	2.019	1.955	41.00	1.976	1.973	1.962	1.966
#2	40.98	40.91	40.48	2.023	1.969	41.20	1.979	1.972	1.963	1.965
#3	41.28	41.02	40.45	2.018	1.981	41.26	1.986	1.975	1.974	1.973
Check ?	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass
Value																				
Range																				

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.004	1.970	2.022	2.029	2.003	1.991	1.999
Stddev	.006	.008	.008	.003	.002	.002	.003
%RSD	.3110	.3950	.3878	.1574	.0894	.1211	.1622
#1	1.998	1.964	2.013	2.028	2.005	1.991	1.998
#2	2.002	1.966	2.025	2.033	2.001	1.993	1.996
#3	2.010	1.979	2.027	2.027	2.003	1.988	2.002
Check ?	None	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass
Value													
Range													

Zoom In Zoom Out

Sample Name: CCV Acquired: 3/31/2015 14:26:19 Type: QC
Method: 60102007_041712(v206) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2727.6	7599.3	46356.	2541.2
Stddev	6.3	19.6	129.	9.4
%RSD	.23194	.25726	.27727	.37090
#1	2731.9	7615.6	46497.	2551.9
#2	2730.7	7604.8	46327.	2537.0
#3	2720.4	7577.6	46245.	2534.5

Zoom In Zoom Out

Sample Name: CCB Acquired: 3/31/2015 14:30:15 Type: QC
Method: 60102007_041712(v206) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0002	.0093	.0005	.0005	.0005	.0097	.0001	.0001	.0001	.0003
Stddev	.0004	.0100	.0004	.0002	.0000	.0022	.0001	.0000	.0001	.0001
%RSD	248.8	107.2	84.31	53.23	4.602	22.24	79.53	18.89	97.03	30.62
#1	-.0004	.0117	.0008	.0004	.0005	.0119	.0002	.0002	.0002	.0002
#2	-.0005	-.0016	.0006	.0007	.0005	.0076	.0001	.0001	.0000	.0004
#3	.0003	.0180	.0000	.0002	.0005	.0098	.0000	.0001	.0002	.0004
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0240	.0198	.0109	.0002	.0010	.0203	.0000	-.0005	.0007	.0003
Stddev	.0103	.0269	.0209	.0001	.0004	.0123	.000	.0005	.0005	.0008
%RSD	42.73	135.6	191.9	30.46	42.08	60.65	257.1	97.68	75.03	235.7
#1	.0354	.0488	-.0109	.0002	.0014	.0274	.0000	.0000	.0009	-.0001
#2	.0212	-.0042	.0309	.0001	.0010	.0273	-.0001	-.0006	.0010	.0012
#3	.0155	.0148	.0127	.0001	.0006	.0061	.0000	-.0009	.0001	-.0001
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0001	.0003	.0004	.0015	.0005	.0001	.0003
Stddev	.0004	.0002	.0001	.0002	.0001	.0001	.0000
%RSD	416.9	47.16	26.81	13.14	25.70	249.9	2.588
#1	.0005	.0005	.0005	.0016	.0004	.0002	.0003
#2	.0000	.0002	.0004	.0015	.0006	-.0001	.0003
#3	-.0002	.0003	.0003	.0013	.0004	.0000	.0003
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Zoom In Zoom Out

Sample Name: CCB Acquired: 3/31/2015 14:30:15 Type: QC
Method: 60102007_041712(v206) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3261.3	7912.7	49221.	2601.1
Stddev	5.0	5.9	131.	14.6
%RSD	.15468	.07408	.26630	.56141
#1	3266.9	7912.1	49346.	2606.8
#2	3259.7	7918.8	49084.	2612.0
#3	3257.2	7907.2	49232.	2584.5

Zoom In Zoom Out

Sample Name: FA23021-6F Acquired: 3/31/2015 14:34:28 Type: Unk
Method: 60102007_041712(v206) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	-.0003	.4657	.0316	.0072	.0001	46.28	.0000	.0001	.0057	.0003
Stddev	.0000	.0175	.0004	.0004	.0001	.15	.000	.0000	.0002	.0002
%RSD	14.73	3.764	1.143	5.590	72.53	.3245	149.1	32.58	3.050	57.41
#1	-.0003	.4859	.0320	.0069	.0001	46.11	-.0001	.0001	.0058	.0001
#2	-.0003	.4556	.0314	.0070	.0002	46.38	-.0001	.0001	.0055	.0004
#3	-.0003	.4555	.0314	.0077	.0000	46.36	.0000	.0001	.0058	.0003

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	2.042	7.079	3.335	.0882	-.0002	8.004	.0000	-.0014	.0006	.0011
Stddev	.015	.023	.040	.0003	.0001	.005	.000	.0004	.0006	.0004
%RSD	.7109	.3225	1.210	.3615	34.68	.0689	4036.	27.46	92.68	34.69
#1	2.044	7.057	3.381	.0880	-.0001	7.998	.0001	-.0017	.0012	.0016
#2	2.055	7.076	3.304	.0882	-.0002	8.008	-.0002	-.0015	.0000	.0009
#3	2.027	7.103	3.320	.0886	-.0002	8.006	.0001	-.0010	.0008	.0009

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	4.004	.0000	.1399	.0050	-.0002	.0062	.0089
Stddev	.006	.0001	.0002	.0003	.0003	.0001	.0000
%RSD	.1423	319.3	.1476	6.332	144.7	1.743	.4550
#1	4.009	.0000	.1398	.0047	-.0001	.0061	.0090
#2	3.998	.0002	.1398	.0049	-.0006	.0063	.0089
#3	4.005	.0000	.1401	.0053	.0000	.0061	.0089

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	2994.6	7783.0	48097.	2630.1
Stddev	3.4	12.2	43.	11.1
%RSD	.11327	.15708	.08918	.42212
#1	2994.9	7769.2	48136.	2642.9
#2	2991.0	7787.0	48051.	2623.0
#3	2997.8	7792.7	48102.	2624.4

Zoom In Zoom Out

Sample Name: FA23021-7F Acquired: 3/31/2015 14:38:35 Type: Unk
Method: 60102007_041712(v206) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	-.0001	.0147	.0010	.0157	.0001	85.46	-.0001	.0002	.0016	.0006
Stddev	.0003	.0061	.0008	.0007	.0001	.22	.0000	.0000	.0001	.0000
%RSD	316.1	41.41	83.97	4.507	82.45	.2565	34.17	19.87	3.423	3.877
#1	-.0001	.0204	.0019	.0158	.0002	85.53	-.0001	.0002	.0016	.0006
#2	.0002	.0083	.0005	.0164	.0000	85.63	-.0001	.0001	.0017	.0006
#3	-.0003	.0153	.0005	.0150	.0001	85.21	-.0001	.0002	.0016	.0006

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	4.900	1.178	11.29	.0373	.0068	59.28	.0010	-.0029	.0005	.0015
Stddev	.022	.033	.05	.0000	.0001	.14	.0001	.0005	.0007	.0013
%RSD	.4512	2.769	.4722	.0231	.9752	.2432	6.693	16.84	134.0	87.46
#1	4.903	1.142	11.34	.0373	.0068	59.29	.0011	-.0034	-.0002	.0002
#2	4.920	1.184	11.29	.0373	.0069	59.41	.0010	-.0024	.0005	.0015
#3	4.876	1.207	11.24	.0373	.0068	59.13	.0010	-.0030	.0011	.0027

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	3.980	-.0002	.1638	.0010	-.0002	.0025	.0093
Stddev	.007	.0003	.0003	.0001	.0003	.0002	.0001
%RSD	.1678	163.9	.1802	6.154	154.7	7.067	.5463
#1	3.974	.0000	.1640	.0009	.0002	.0026	.0093
#2	3.987	-.0005	.1634	.0010	-.0005	.0023	.0092
#3	3.978	-.0001	.1639	.0011	-.0004	.0026	.0092

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	2812.9	7579.3	45952.	2570.5
Stddev	1.4	5.3	104.	13.5
%RSD	.05031	.06970	.22611	.52501
#1	2814.0	7575.9	45861.	2565.9
#2	2811.3	7576.6	45930.	2559.9
#3	2813.4	7585.4	46065.	2585.7

Zoom In Zoom Out

Sample Name: FA23021-8F Acquired: 3/31/2015 14:42:44 Type: Unk
Method: 60102007_041712(v206) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	.0000	.0103	.0143	.0169	.0000	83.15	-.0001	-.0001	.0004	.0001
Stddev	.0001	.0169	.0005	.0003	.0001	.11	.0000	.0001	.0003	.0000
%RSD	475.1	164.9	3.318	1.561	559.4	.1278	16.32	78.06	75.54	28.12
#1	.0002	.0095	.0148	.0167	-.0001	83.08	-.0001	.0000	.0007	.0001
#2	-.0001	-.0063	.0142	.0172	.0001	83.11	-.0001	-.0001	.0001	.0001
#3	-.0001	.0275	.0139	.0169	.0000	83.28	-.0001	-.0001	.0005	.0001

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	5.643	.8231	6.274	.0363	.0039	64.73	.0005	-.0031	.0004	.0005
Stddev	.010	.0329	.065	.0001	.0000	.04	.0001	.0006	.0002	.0005
%RSD	.1761	4.003	1.043	.3210	1.182	.0618	31.87	18.40	58.38	90.13
#1	5.644	.8458	6.299	.0364	.0039	64.70	.0006	-.0029	.0005	.0002
#2	5.632	.7853	6.323	.0362	.0039	64.72	.0004	-.0027	.0001	.0004
#3	5.652	.8383	6.200	.0364	.0039	64.77	.0003	-.0038	.0006	.0011

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	4.652	-.0007	.1396	.0007	-.0004	.0004	.0118
Stddev	.006	.0001	.0005	.0000	.0007	.0002	.0000
%RSD	.1215	8.449	.3560	1.276	192.5	61.59	.0298
#1	4.649	-.0007	.1394	.0007	-.0009	.0002	.0118
#2	4.648	-.0006	.1392	.0007	-.0007	.0004	.0118
#3	4.658	-.0007	.1402	.0007	.0004	.0007	.0118

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	2799.6	7518.4	45661.	2552.5
Stddev	4.5	9.0	133.	25.5
%RSD	.16237	.11980	.29162	.99989
#1	2804.4	7519.0	45510.	2542.1
#2	2798.9	7527.1	45761.	2533.9
#3	2795.3	7509.1	45712.	2581.6

Zoom In Zoom Out

Sample Name: FA23021-9F Acquired: 3/31/2015 14:46:52 Type: Unk
Method: 60102007_041712(v206) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	-.0004	.0043	.0094	.0166	.0001	43.34	-.0001	.0000	.0009	.0006
Stddev	.0004	.0032	.0007	.0002	.0001	.16	.0000	.000	.0001	.0002
%RSD	93.02	75.06	7.672	1.269	184.4	.3715	79.16	5123.	11.58	25.50
#1	-.0007	.0024	.0092	.0167	.0000	43.52	-.0001	.0000	.0008	.0007
#2	.0000	.0080	.0102	.0168	.0000	43.29	-.0001	.0001	.0009	.0007
#3	-.0006	.0025	.0088	.0164	.0002	43.21	.0000	-.0001	.0010	.0004

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	2.073	2.735	6.674	.0348	.0076	55.26	.0002	-.0029	-.0001	.0008
Stddev	.013	.055	.020	.0001	.0001	.16	.0001	.0006	.0010	.0009
%RSD	.6191	2.010	.2934	.2689	1.706	.2970	23.65	20.71	1468.	109.9
#1	2.080	2.717	6.652	.0347	.0078	55.43	.0003	-.0023	-.0007	.0012
#2	2.081	2.691	6.690	.0349	.0076	55.26	.0002	-.0035	-.0006	.0015
#3	2.058	2.796	6.678	.0347	.0075	55.10	.0002	-.0028	.0011	-.0002

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	3.878	-.0003	.1689	.0007	-.0002	.0016	.0097
Stddev	.005	.0002	.0003	.0001	.0005	.0001	.0001
%RSD	.1368	69.85	.1864	14.75	222.5	6.308	.5235
#1	3.877	-.0006	.1691	.0006	.0000	.0015	.0097
#2	3.883	-.0002	.1690	.0008	-.0008	.0017	.0097
#3	3.873	-.0002	.1685	.0007	.0001	.0017	.0096

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	2875.0	7640.6	46761.	2593.8
Stddev	6.5	17.3	156.	30.4
%RSD	.22670	.22638	.33449	1.1716
#1	2882.5	7660.5	46871.	2559.0
#2	2870.5	7629.2	46582.	2615.4
#3	2872.0	7632.1	46830.	2606.9

Zoom In Zoom Out

Sample Name: FA23021-10F Acquired: 3/31/2015 14:51:00 Type: Unk
Method: 60102007_041712(v206) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)
Avg	.0002	.0079	.0081	.0135	.0000	64.35	.0001	.0000	.0008
Stddev	.0003	.0049	.0002	.0003	.0001	.20	.0001	.0001	.0003
%RSD	167.9	61.90	2.971	2.325	855.8	.3137	85.91	150.9	32.60
#1	.0005	.0136	.0079	.0133	.0000	64.12	.0000	.0001	.0012
#2	.0002	.0047	.0082	.0139	.0000	64.43	.0001	.0001	.0006
#3	-.0002	.0055	.0083	.0134	.0001	64.50	.0001	.0000	.0007

Elem	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
IS Ref	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)
Avg	.0005	2.240	2.235	8.828	.0321	.0052	F88.71	.0001	-.0022
Stddev	.0002	.025	.008	.079	.0002	.0001	.18	.0001	.0001
%RSD	49.38	1.119	.3379	.8903	.6179	2.574	.2071	54.52	6.888
#1	.0005	2.215	2.229	8.838	.0319	.0051	88.51	.0001	-.0023
#2	.0006	2.241	2.233	8.745	.0320	.0050	88.73	.0001	-.0020
#3	.0002	2.265	2.243	8.901	.0323	.0053	88.88	.0002	-.0022

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	.0011	.0012	4.375	-.0006	.1265	.0009	.0003	.0015	.0137
Stddev	.0009	.0013	.006	.0002	.0005	.0000	.0006	.0002	.0001
%RSD	85.48	110.5	.1384	31.61	.4135	4.577	193.5	10.47	.4854
#1	.0001	.0005	4.369	-.0004	.1259	.0008	.0010	.0014	.0138
#2	.0020	.0027	4.377	-.0008	.1266	.0009	.0001	.0017	.0137
#3	.0011	.0004	4.380	-.0006	.1269	.0008	-.0002	.0016	.0137

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	2784.2	7502.7	45461.	2557.8
Stddev	5.0	7.7	92.	1.3
%RSD	.17842	.10324	.20187	.05096
#1	2778.5	7493.8	45371.	2556.4
#2	2787.5	7505.9	45459.	2559.0
#3	2786.5	7508.3	45554.	2558.0

Zoom In Zoom Out

Sample Name: FA23021-11F Acquired: 3/31/2015 14:55:08 Type: Unk
Method: 60102007_041712(v206) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	-.0004	.0154	.0608	.0423	.0001	84.03	-.0001	.0000	.0012	.0001
Stddev	.0003	.0143	.0001	.0001	.0000	.15	.0000	.0000	.0001	.0002
%RSD	63.42	93.25	.1594	.2792	37.70	.1787	35.33	2387.	11.86	150.6
#1	-.0002	.0239	.0608	.0425	.0001	84.16	-.0001	.0001	.0013	.0000
#2	-.0004	.0234	.0607	.0423	.0000	84.05	-.0001	.0000	.0013	.0001
#3	-.0007	-.0012	.0609	.0423	.0001	83.87	-.0001	.0000	.0011	.0003

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	.0807	3.402	10.18	.0234	.0041	21.36	.0010	-.0024	-.0004	.0003
Stddev	.0031	.018	.01	.0001	.0002	.04	.0001	.0002	.0008	.0006
%RSD	3.830	.5380	.1092	.5966	3.877	.1791	5.805	7.898	210.0	205.0
#1	.0772	3.383	10.19	.0234	.0042	21.39	.0010	-.0024	-.0007	-.0004
#2	.0832	3.420	10.17	.0235	.0040	21.36	.0009	-.0022	.0005	.0005
#3	.0816	3.402	10.18	.0232	.0039	21.32	.0010	-.0026	-.0010	.0008

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	2.098	-.0004	.2182	.0007	-.0009	.0030	.0088
Stddev	.001	.0002	.0004	.0001	.0006	.0001	.0000
%RSD	.0336	35.73	.1609	11.48	67.12	4.606	.5315
#1	2.098	-.0005	.2178	.0007	-.0007	.0028	.0088
#2	2.097	-.0005	.2183	.0006	-.0016	.0029	.0089
#3	2.099	-.0003	.2185	.0008	-.0004	.0031	.0088

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	2888.9	7734.7	46987.	2630.9
Stddev	3.3	3.7	29.	3.8
%RSD	.11310	.04840	.06203	.14536
#1	2887.5	7730.5	46977.	2628.9
#2	2886.5	7737.4	47020.	2628.5
#3	2892.6	7736.3	46964.	2635.3

Zoom In Zoom Out

Sample Name: FA23189-43 Acquired: 3/31/2015 14:59:16 Type: Unk
Method: 60102007_041712(v206) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	-.0003	.0073	-.0005	.0002	.0000	.0670	-.0001	-.0001	.0000	.0055
Stddev	.0002	.0153	.0005	.0002	.0001	.0016	.0000	.0000	.0001	.0002
%RSD	68.80	210.0	109.4	131.9	184.7	2.380	56.23	25.91	131.9	4.481
#1	-.0004	.0038	.0001	.0000	.0000	.0653	.0000	-.0001	.0001	.0054
#2	-.0001	.0241	-.0009	.0004	.0000	.0674	-.0001	.0000	.0001	.0057
#3	-.0005	-.0060	-.0005	.0001	.0001	.0684	-.0001	-.0001	.0000	.0053

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	-.0061	.0071	.0189	.0000	-.0002	.0244	-.0001	-.0005	.0000	.0009
Stddev	.0016	.0140	.0342	.0000	.0000	.0049	.0001	.0003	.000	.0011
%RSD	26.50	196.8	180.4	54.39	18.66	19.90	114.9	51.73	1194.	129.7
#1	-.0080	.0119	.0217	.0000	-.0002	.0188	.0000	-.0002	-.0001	.0017
#2	-.0049	.0181	.0516	.0000	-.0002	.0273	-.0001	-.0007	.0004	-.0004
#3	-.0054	-.0087	-.0165	.0000	-.0001	.0271	-.0002	-.0007	-.0003	.0013

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	.0282	-.0002	.0001	-.0004	-.0011	.0000	.0098
Stddev	.0001	.0003	.0001	.0002	.0002	.000	.0001
%RSD	.4010	201.3	93.58	43.05	21.05	798.4	1.089
#1	.0281	-.0006	.0003	-.0002	-.0014	.0000	.0097
#2	.0283	.0001	.0001	-.0005	-.0009	.0000	.0099
#3	.0282	.0000	.0000	-.0004	-.0010	.0000	.0098

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	3246.0	7958.0	48954.	2587.4
Stddev	11.9	29.4	210.	24.2
%RSD	.36671	.36884	.42900	.93676
#1	3259.6	7991.9	48803.	2559.4
#2	3241.2	7940.6	48865.	2601.4
#3	3237.2	7941.5	49194.	2601.4

Zoom In Zoom Out

Sample Name: FA22900-1 Acquired: 3/31/2015 15:03:28 Type: Unk
Method: 60102007_041712(v206) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)
Avg	-.0003	.1924	.0001	.0429	.0000	33.98	.0000	.0015	.0119
Stddev	.0004	.0127	.0004	.0003	.0002	.09	.0000	.0001	.0005
%RSD	125.7	6.597	335.8	.5823	407.7	.2559	228.9	5.586	4.402
#1	-.0001	.2066	-.0001	.0427	.0001	33.93	.0000	.0016	.0125
#2	-.0008	.1821	-.0001	.0430	.0002	33.93	.0000	.0016	.0118
#3	-.0001	.1885	.0006	.0432	-.0001	34.08	.0000	.0014	.0114

Elem	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
IS Ref	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)
Avg	.0013	.2804	6.164	9.640	.0053	.0004	F111.0	.0055	-.0018
Stddev	.0003	.0071	.008	.085	.0001	.0000	.1	.0001	.0004
%RSD	20.21	2.516	.1288	.8858	1.562	11.55	.0966	1.452	21.14
#1	.0013	.2747	6.164	9.543	.0054	.0004	111.1	.0055	-.0020
#2	.0016	.2883	6.156	9.673	.0053	.0003	110.9	.0056	-.0014
#3	.0011	.2782	6.171	9.704	.0052	.0004	111.1	.0055	-.0021

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	.0002	.0028	1.515	-.0007	.1385	.0080	-.0007	.0005	.0221
Stddev	.0009	.0006	.004	.0003	.0002	.0007	.0005	.0002	.0000
%RSD	371.2	19.93	.2819	37.51	.1531	9.245	62.66	43.82	.1401
#1	.0002	.0025	1.519	-.0006	.1387	.0076	-.0009	.0007	.0221
#2	.0011	.0034	1.511	-.0010	.1383	.0089	-.0002	.0005	.0222
#3	-.0006	.0024	1.516	-.0006	.1386	.0076	-.0011	.0003	.0221

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	2796.4	7589.3	45802.	2561.9
Stddev	4.3	11.4	193.	20.5
%RSD	.15331	.14968	.42086	.79993
#1	2798.6	7595.7	45580.	2582.0
#2	2791.4	7576.1	45918.	2562.5
#3	2799.1	7596.0	45909.	2541.0

Zoom In Zoom Out

Sample Name: FA22900-2 Acquired: 3/31/2015 15:07:36 Type: Unk
Method: 60102007_041712(v206) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	-.0001	.1738	.0003	.0683	.0001	28.99	-.0001	.0002	.0020	.0001
Stddev	.0004	.0144	.0003	.0003	.0001	.10	.0000	.0001	.0001	.0003
%RSD	366.0	8.273	102.0	.4515	112.7	.3311	72.64	28.74	6.561	271.5
#1	-.0005	.1582	.0000	.0684	.0002	29.03	.0000	.0001	.0021	-.0002
#2	.0003	.1865	.0006	.0686	.0000	29.05	-.0001	.0003	.0019	.0001
#3	-.0001	.1767	.0004	.0680	.0001	28.88	.0000	.0002	.0020	.0004

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	6.559	3.622	2.599	.0377	-.0001	16.23	.0006	-.0010	.0004	.0008
Stddev	.024	.028	.026	.0000	.0001	.03	.0001	.0004	.0003	.0009
%RSD	.3693	.7667	1.019	.0631	125.0	.1905	9.671	41.28	68.22	111.8
#1	6.540	3.645	2.629	.0377	.0000	16.26	.0007	-.0005	.0002	.0008
#2	6.586	3.631	2.580	.0377	-.0001	16.24	.0006	-.0012	.0004	.0016
#3	6.551	3.591	2.587	.0377	-.0001	16.20	.0006	-.0013	.0008	-.0001

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	4.716	-.0007	.4395	.0041	.0000	.0003	.0073
Stddev	.001	.0002	.0009	.0015	.0003	.0001	.0001
%RSD	.0298	23.61	.1943	36.47	4057.	21.19	.8072
#1	4.716	-.0006	.4403	.0028	-.0003	.0003	.0072
#2	4.714	-.0006	.4396	.0057	.0001	.0002	.0073
#3	4.717	-.0009	.4386	.0037	.0003	.0004	.0072

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	2981.6	7746.9	46668.	2571.0
Stddev	5.6	10.1	32.	17.0
%RSD	.18812	.12978	.06862	.65970
#1	2976.1	7739.4	46651.	2559.4
#2	2987.3	7758.3	46648.	2563.1
#3	2981.4	7743.0	46705.	2590.5

Zoom In Zoom Out

Sample Name: FA22900-3 Acquired: 3/31/2015 15:11:45 Type: Unk
Method: 60102007_041712(v206) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	-.0003	.2524	.0002	.0573	.0003	4.392	.0003	.0047	.0027	.0003
Stddev	.0001	.0085	.0006	.0002	.0001	.006	.0000	.0000	.0000	.0000
%RSD	28.22	3.364	280.1	.3935	31.02	.1372	10.75	.6040	1.466	13.48
#1	-.0004	.2536	.0003	.0575	.0002	4.395	.0003	.0047	.0026	.0003
#2	-.0002	.2434	-.0004	.0572	.0004	4.385	.0003	.0047	.0027	.0002
#3	-.0003	.2603	.0008	.0571	.0003	4.396	.0002	.0047	.0026	.0003

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	.2456	2.854	1.364	.0594	-.0003	29.53	.0042	-.0004	.0010	.0016
Stddev	.0060	.049	.033	.0001	.0000	.05	.0001	.0002	.0001	.0006
%RSD	2.436	1.705	2.439	.2100	7.018	.1849	1.672	58.96	10.60	37.16
#1	.2437	2.875	1.336	.0595	-.0003	29.53	.0041	-.0004	.0010	.0017
#2	.2523	2.889	1.401	.0593	-.0003	29.47	.0042	-.0006	.0011	.0023
#3	.2408	2.799	1.356	.0595	-.0003	29.58	.0043	-.0001	.0009	.0010

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	1.902	-.0007	.0214	.0068	-.0010	.0001	.0427
Stddev	.007	.0001	.0000	.0024	.0002	.0001	.0002
%RSD	.3525	18.74	.1823	35.58	25.62	114.7	.4674
#1	1.896	-.0007	.0214	.0096	-.0012	.0003	.0424
#2	1.901	-.0006	.0215	.0053	-.0008	.0000	.0428
#3	1.909	-.0008	.0214	.0055	-.0009	.0001	.0427

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	2995.0	7771.0	46606.	2530.6
Stddev	5.8	13.7	274.	9.5
%RSD	.19203	.17639	.58788	.37389
#1	3000.7	7785.4	46724.	2520.4
#2	2995.1	7769.3	46801.	2532.3
#3	2989.2	7758.2	46293.	2539.0

Zoom In Zoom Out

Sample Name: CCV Acquired: 3/31/2015 15:15:52 Type: QC
Method: 60102007_041712(v206) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2536	41.38	1.952	1.993	2.039	41.58	2.019	2.012	2.075	2.025
Stddev	.0005	.17	.005	.008	.005	.18	.002	.002	.002	.002
%RSD	.1830	.4029	.2355	.3867	.2477	.4422	.1116	.1089	.1137	.0938
#1	.2531	41.19	1.947	1.987	2.033	41.37	2.016	2.009	2.073	2.026
#2	.2541	41.51	1.956	1.992	2.040	41.72	2.020	2.013	2.074	2.027
#3	.2536	41.43	1.954	2.002	2.043	41.64	2.021	2.013	2.078	2.023
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value										
Range										

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	41.49	40.66	40.57	2.067	1.979	41.47	1.986	1.992	1.968	1.967
Stddev	.16	.15	.32	.003	.013	.10	.002	.001	.004	.004
%RSD	.3810	.3776	.7848	.1426	.6514	.2382	.0827	.0400	.1753	.2171
#1	41.31	40.49	40.20	2.064	1.965	41.35	1.985	1.992	1.964	1.963
#2	41.55	40.74	40.79	2.068	1.982	41.53	1.988	1.992	1.971	1.972
#3	41.61	40.77	40.71	2.070	1.990	41.52	1.987	1.991	1.969	1.967
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value										
Range										

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.003	1.963	2.030	2.075	2.021	2.008	2.007
Stddev	.003	.003	.007	.002	.001	.002	.002
%RSD	.1560	.1704	.3465	.1068	.0404	.0836	.1111
#1	1.999	1.959	2.023	2.073	2.022	2.006	2.005
#2	2.005	1.964	2.031	2.074	2.022	2.009	2.008
#3	2.004	1.965	2.037	2.077	2.021	2.008	2.009
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Pass
Value							
Range							

Zoom In Zoom Out

Sample Name: CCV Acquired: 3/31/2015 15:15:52 Type: QC
Method: 60102007_041712(v206) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2701.9	7551.2	45346.	2513.1
Stddev	4.7	19.6	142.	24.9
%RSD	.17402	.25960	.31292	.99255
#1	2706.5	7573.5	45508.	2537.7
#2	2702.0	7543.0	45287.	2487.9
#3	2697.1	7536.9	45244.	2513.6

Zoom In Zoom Out

Sample Name: CCB Acquired: 3/31/2015 15:19:48 Type: QC
Method: 60102007_041712(v206) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0001	.0012	.0004	.0003	.0002	.0041	.0001	.0001	.0003
Stddev	.0002	.0125	.0008	.0002	.0001	.0029	.0000	.0001	.0004
%RSD	190.7	1078.	193.5	65.65	35.04	71.55	36.83	78.78	139.7
#1	-.0003	.0151	.0011	.0001	.0001	.0027	.0001	.0003	.0002
#2	.0000	-.0027	.0005	.0003	.0002	.0075	.0000	.0001	.0006
#3	.0000	-.0089	-.0004	.0004	.0003	.0021	.0001	.0001	-.0001
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0003	.0290	-.0131	-.0098	.0002	F.0011	.0078	.0000	-.0002
Stddev	.0001	.0025	.0205	.0279	.0001	.0003	.0154	.000	.0004
%RSD	20.51	8.528	157.1	283.7	24.26	30.46	198.1	167.2	195.9
#1	.0002	.0317	.0094	.0215	.0003	.0015	.0121	.0000	.0002
#2	.0004	.0268	-.0308	-.0189	.0002	.0011	.0205	.0000	-.0005
#3	.0004	.0286	-.0178	-.0321	.0002	.0008	-.0093	-.0001	-.0002
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit						.0010			
Low Limit						-.0010			

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0008	.0003	-.0001	.0003	.0003	.0016	-.0004	.0002	.0001
Stddev	.0001	.0010	.0003	.0001	.0001	.0002	.0009	.0002	.0000
%RSD	13.60	341.8	450.1	38.41	20.69	13.83	225.9	71.59	19.49
#1	.0008	-.0003	.0001	.0003	.0004	.0018	-.0012	.0004	.0002
#2	.0008	-.0003	.0001	.0001	.0003	.0016	.0006	.0001	.0001
#3	.0006	.0015	-.0003	.0003	.0003	.0014	-.0006	.0002	.0001
Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Zoom In Zoom Out

Sample Name: CCB Acquired: 3/31/2015 15:19:48 Type: QC
Method: 60102007_041712(v206) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3236.8	7905.6	48489.	2563.7
Stddev	8.6	14.4	183.	22.3
%RSD	.26434	.18218	.37717	.86826
#1	3245.3	7921.7	48547.	2571.0
#2	3236.7	7893.8	48284.	2538.7
#3	3228.2	7901.4	48635.	2581.3

Element, Wavelength and Order	Use?	# IECs	IEC	k1	k2	Calc-in-fit?
Ag 328.068 {103}	☒	3	V	-0.009834	0.000000	No
			Fe	0.000002	0.000000	No
			Mg	0.000000	0.000000	No
Al 396.152 { 85}	☒	1	Mo	0.035224	0.000000	No
As 189.042 {478}	☒	5	Fe	-0.000103	0.000000	No
			Cr	-0.000226	0.000000	No
			Mo	-0.000017	0.000000	No
			Al	0.000004	0.000000	No
			Ca	0.000002	0.000000	No
Ba 455.403 { 74}	☒	1	Fe	0.000004	0.000000	No
Be 313.042 {108}	☒	2	V	0.000115	0.000000	No
			Ti	-0.000059	0.000000	No
Ca 317.933 {106}	☒	None				
Cd 226.502 {449}	☒	4	Fe	0.000095	0.000000	No
			Ca	0.000001	0.000000	No
			Al	-0.000001	0.000000	No
			Ti	0.000151	0.000000	No
Co 228.616 {447}	☒	3	Mo	-0.001220	0.000000	No
			Ti	0.003012	0.000000	No
			Fe	0.000004	0.000000	No
Cr 267.716 {126}	☒	3	Al	0.000001	0.000000	No
			Fe	0.000001	0.000000	No
			Ca	0.000002	0.000000	No
Cu 324.754 {104}	☒	10	Fe	-0.000152	0.000000	No
			Ca	0.000002	0.000000	No
			Mo	0.000528	0.000000	No
			Sn	-0.000012	0.000000	No
			V	-0.000158	0.000000	No
			Ti	-0.000251	0.000000	No
			Al	0.000008	0.000000	No
			Mg	0.000005	0.000000	No
			Co	-0.000787	0.000000	No
			Cd	0.000240	0.000000	No
Fe 259.940 {130}	☒	None				
In 230.606 {446}*	☒	None				
K 766.490 { 44}	☒	None				
Mg 279.079 {121}	☒	None				
Mn 257.610 {131}	☒	2	Fe	-0.000008	0.000000	No
			Mg	0.000000	0.000000	No
Mo 202.030 {467}	☒	1	Fe	-0.000019	0.000000	No
Na 589.592 { 57}	☒	None				
Ni 231.604 {445}	☒	7	Fe	-0.000038	0.000000	No
			Co	-0.000054	0.000000	No
			Mo	0.000005	0.000000	No
			Sb	-0.000120	0.000000	No
			Al	0.000003	0.000000	No
			Be	-0.000269	0.000000	No
			Tl	0.000440	0.000000	No
Pb 220.353 {453}	☒	9	Al	0.000249	0.000000	No
			Fe	0.000161	0.000000	No
			Mo	-0.001012	0.000000	No
			Cu	0.001070	0.000000	No
			Ti	0.000036	0.000000	No
			Si	0.000071	0.000000	No
			Ca	0.000003	0.000000	No
			Cr	0.000050	0.000000	No
			Mg	0.000000	0.000000	No

Element, Wavelength and Order	Use?	# IECs	IEC	k1	k2	Calc-in-fit?
Sb 206.833 {463}	X	10	Fe	0.000032	0.000000	No
			Cr	0.012140	0.000000	No
			Mo	-0.004076	0.000000	No
			V	-0.000611	0.000000	No
			Sn	-0.010736	0.000000	No
			Ti	0.000040	0.000000	No
			Ca	-0.000001	0.000000	No
			Ni	-0.000438	0.000000	No
			Mg	0.000000	0.000000	No
			Al	-0.000002	0.000000	No
Se 196.090 {472}	X	10	Fe	-0.000023	0.000000	No
			Ca	-0.000000	0.000000	No
			Mn	0.000574	0.000000	No
			Mo	0.000111	0.000000	No
			Al	-0.000034	0.000000	No
			V	0.000000	0.000000	No
			Zn	0.000000	0.000000	No
			Sr	0.000137	0.000000	No
			As	-0.000032	0.000000	No
			Be	0.000212	0.000000	No
Si 212.412 {459}	X	1	Mo	0.019120	0.000000	No
Sn 189.989 {477}	X	None				
Sr 407.771 { 83}	X	1	Ca	0.000017	0.000000	No
Ti 334.941 {101}	X	1	Ca	-0.000008	0.000000	No
Tl 190.856 {477}	X	11	Co	0.001145	0.000000	No
			Fe	-0.000005	0.000000	No
			Al	-0.000011	0.000000	No
			Ba	-0.000051	0.000000	No
			Ti	-0.002651	0.000000	No
			Sb	0.000012	0.000000	No
			Ca	0.000003	0.000000	No
			Cr	0.000230	0.000000	No
			Mg	-0.000003	0.000000	No
			Mn	0.000818	0.000000	No
			V	-0.038621	0.000000	No
V 292.402 {115}	X	5	Fe	0.000008	0.000000	No
			Cr	-0.002590	0.000000	No
			Mo	-0.005797	0.000000	No
			Ti	0.000364	0.000000	No
			Mn	-0.000693	0.000000	No
Y 224.306 {450}*	X	None				
Y 360.073 { 94}*	X	None				
Y 371.030 { 91}*	X	None				
Zn 206.200 {463}	X	5	Cr	-0.000965	0.000000	No
			Al	0.000016	0.000000	No
			Ca	0.000003	0.000000	No
			Fe	-0.000026	0.000000	No
			As	0.001128	0.000000	No

	Element, Wavelength and Order	Date of Fit	Date of Cal.	Type of Fit	Weighting	A0	A1	A2	n (Exponent)
	Ag 328.068 {103}	3/31/2015 9:38:30	3/31/2015 9:38:30	Linear	1/Conc	0.000371	0.549237	0.000000	1.000000
	Al 396.152 { 85}	3/31/2015 9:38:30	3/31/2015 9:38:30	Linear	1/Conc	0.003088	0.161911	0.000000	1.000000
	As 189.042 {478}	3/31/2015 9:38:30	3/31/2015 9:38:30	Linear	1/Conc	-0.000345	0.203162	0.000000	1.000000
	Ba 455.403 { 74}	3/31/2015 9:38:30	3/31/2015 9:38:30	Linear	1/Conc	0.012175	10.272768	0.000000	1.000000
	Be 313.042 {108}	3/31/2015 9:38:30	3/31/2015 9:38:30	Linear	1/Conc	-0.001331	7.874558	0.000000	1.000000
	Ca 317.933 {106}	3/31/2015 9:38:30	3/31/2015 9:38:30	Linear	1/Conc	0.006808	0.236612	0.000000	1.000000
	Cd 226.502 {449}	3/31/2015 9:38:30	3/31/2015 9:38:30	Linear	1/Conc	-0.000534	4.797650	0.000000	1.000000
	Co 228.616 {447}	3/31/2015 9:38:30	3/31/2015 9:38:30	Linear	1/Conc	0.000180	2.273493	0.000000	1.000000
	Cr 267.716 {126}	3/31/2015 9:38:30	3/31/2015 9:38:30	Linear	1/Conc	0.000024	0.454128	0.000000	1.000000
	Cu 324.754 {104}	3/31/2015 9:38:30	3/31/2015 9:38:30	Linear	1/Conc	0.003877	0.749664	0.000000	1.000000
	Fe 259.940 {130}	3/31/2015 9:38:30	3/31/2015 9:38:30	Linear	1/Conc	0.000704	0.120935	0.000000	1.000000
	In 230.606 {446}*	3/31/2015 8:59:20	5/5/2010 12:30:54	Linear	1/Conc	0.000000	0.000000	0.000000	1.000000
	K 766.490 { 44}	3/31/2015 9:38:30	3/31/2015 9:38:30	Linear	1/Conc	-0.011369	0.175514	0.000000	1.000000
	Mg 279.079 {121}	3/31/2015 9:38:30	3/31/2015 9:38:30	Linear	1/Conc	-0.000367	0.022276	0.000000	1.000000
	Mn 257.610 {131}	3/31/2015 9:38:30	3/31/2015 9:38:30	Linear	1/Conc	0.000200	2.702435	0.000000	1.000000
	Mo 202.030 {467}	3/31/2015 9:38:30	3/31/2015 9:38:30	Linear	1/Conc	0.000408	1.144421	0.000000	1.000000
	Na 589.592 { 57}	3/31/2015 9:38:30	3/31/2015 9:38:30	Linear	1/Conc	-0.007398	0.518690	0.000000	1.000000
	Ni 231.604 {445}	3/31/2015 9:38:30	3/31/2015 9:38:30	Linear	1/Conc	-0.000276	1.348656	0.000000	1.000000
	Pb 220.353 {453}	3/31/2015 9:38:30	3/31/2015 9:38:30	Linear	1/Conc	-0.003486	1.173695	0.000000	1.000000
	Sb 206.833 {463}	3/31/2015 9:38:30	3/31/2015 9:38:30	Linear	1/Conc	0.000584	0.246313	0.000000	1.000000
	Se 196.090 {472}	3/31/2015 9:38:30	3/31/2015 9:38:30	Linear	1/Conc	-0.000602	0.147584	0.000000	1.000000
	Si 212.412 {459}	3/31/2015 9:38:30	3/31/2015 9:38:30	Linear	1/Conc	0.007424	0.357500	0.000000	1.000000
	Sn 189.989 {477}	3/31/2015 9:38:30	3/31/2015 9:38:30	Linear	1/Conc	0.000413	0.459190	0.000000	1.000000
	Sr 407.771 { 83}	3/31/2015 9:38:30	3/31/2015 9:38:30	Linear	1/Conc	-0.000049	16.594859	0.000000	1.000000
	Ti 334.941 {101}	3/31/2015 9:38:30	3/31/2015 9:38:30	Linear	1/Conc	0.001700	1.742158	0.000000	1.000000
	Tl 190.856 {477}	3/31/2015 9:38:30	3/31/2015 9:38:30	Linear	1/Conc	-0.004134	0.584285	0.000000	1.000000
	V 292.402 {115}	3/31/2015 9:38:30	3/31/2015 9:38:30	Linear	1/Conc	-0.000262	0.646742	0.000000	1.000000
	Y 224.306 {450}*	<not fit>	<Never Calibrated>	Linear	1/Conc	0.000000	0.000000	0.000000	1.000000
	Y 360.073 { 94}*	<not fit>	<Never Calibrated>	Linear	1/Conc	0.000000	0.000000	0.000000	1.000000
	Y 371.030 { 91}*	<not fit>	<Never Calibrated>	Linear	1/Conc	0.000000	0.000000	0.000000	1.000000
	Zn 206.200 {463}	3/31/2015 9:38:30	3/31/2015 9:38:30	Linear	1/Conc	0.002305	2.908519	0.000000	1.000000

Element, Wavelength and Order	Correlation	Std Error of Est	Predicted MDL	Predicted MQL	Status	Reslope		QC Norm	
						Slope	Y-int	Slope factor	Offset
Ag 328.068 {103}	0.999950	0.000051	0.000419	0.001397	OK.	1.000000	0.000000	1	0
Al 396.152 { 85}	0.999754	0.005795	0.014849	0.049497	OK.	1.000000	0.000000	1	0
As 189.042 {478}	0.999923	0.000203	0.000671	0.002238	OK.	1.000000	0.000000	1	0
Ba 455.403 { 74}	0.999931	0.009712	0.000323	0.001078	OK.	1.000000	0.000000	1	0
Be 313.042 {108}	0.999936	0.007148	0.000118	0.000393	OK.	1.000000	0.000000	1	0
Ca 317.933 {106}	0.999718	0.009051	0.004752	0.015840	OK.	1.000000	0.000000	1	0
Cd 226.502 {449}	0.999952	0.003781	0.000045	0.000149	OK.	1.000000	0.000000	1	0
Co 228.616 {447}	0.999966	0.001520	0.000101	0.000335	OK.	1.000000	0.000000	1	0
Cr 267.716 {126}	0.999964	0.000312	0.000307	0.001025	OK.	1.000000	0.000000	1	0
Cu 324.754 {104}	0.999976	0.000419	0.000276	0.000918	OK.	1.000000	0.000000	1	0
Fe 259.940 {130}	0.999659	0.005092	0.004477	0.014924	OK.	1.000000	0.000000	1	0
In 230.606 {446}*	0.000000	0.000000	-1.000000	-1.000000	Warnin	1.000000	0.000000	1	0
K 766.490 { 44}	0.999680	0.007152	0.030729	0.102432	OK.	1.000000	0.000000	1	0
Mg 279.079 {121}	0.999731	0.000832	0.030804	0.102681	OK.	1.000000	0.000000	1	0
Mn 257.610 {131}	0.999897	0.003130	0.000045	0.000150	OK.	1.000000	0.000000	1	0
Mo 202.030 {467}	0.999995	0.000297	0.000124	0.000414	OK.	1.000000	0.000000	1	0
Na 589.592 { 57}	0.999729	0.019446	0.010113	0.033710	OK.	1.000000	0.000000	1	0
Ni 231.604 {445}	0.999947	0.001120	0.000166	0.000554	OK.	1.000000	0.000000	1	0
Pb 220.353 {453}	0.999737	0.002188	0.000471	0.001571	OK.	1.000000	0.000000	1	0
Sb 206.833 {463}	0.999972	0.000148	0.000905	0.003016	OK.	1.000000	0.000000	1	0
Se 196.090 {472}	0.999962	0.000104	0.001419	0.004730	OK.	1.000000	0.000000	1	0
Si 212.412 {459}	0.982413	0.005577	0.000449	0.001497	OK.	1.000000	0.000000	1	0
Sn 189.989 {477}	0.999684	0.000930	0.000251	0.000835	OK.	1.000000	0.000000	1	0
Sr 407.771 { 83}	0.999827	0.024860	0.000124	0.000412	OK.	1.000000	0.000000	1	0
Ti 334.941 {101}	0.999870	0.002264	0.000123	0.000409	OK.	1.000000	0.000000	1	0
Tl 190.856 {477}	0.999954	0.000435	0.000608	0.002026	OK.	1.000000	0.000000	1	0
V 292.402 {115}	0.999972	0.000385	0.000275	0.000916	OK.	1.000000	0.000000	1	0
Y 224.306 {450}*	0.000000	0.000000	-1.000000	-1.000000	Warnin	1.000000	0.000000	1	0
Y 360.073 { 94}*	0.000000	0.000000	-1.000000	-1.000000	Warnin	1.000000	0.000000	1	0
Y 371.030 { 91}*	0.000000	0.000000	-1.000000	-1.000000	Warnin	1.000000	0.000000	1	0
Zn 206.200 {463}	0.999958	0.002155	0.000053	0.000177	OK.	1.000000	0.000000	1	0

Zoom In
Zoom Out

Sample Name: Blank Acquired: 4/1/2015 7:10:21 Type: Cal
Method: 60102007_041712(v208) Mode: IR Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.0001	.0043	-.0001	.0184	-.0004	.0125	-.0006	.0004	.0001
Stddev	.0001	.0018	.0001	.0007	.0003	.0014	.0002	.0003	.0001
%RSD	101.6	43.29	54.34	3.836	82.65	11.51	32.90	70.40	137.7
#1	.0001	.0023	-.0001	.0177	.0000	.0110	-.0007	.0005	-.0001
#2	.0000	.0044	-.0002	.0183	-.0007	.0138	-.0006	.0006	.0001
#3	.0002	.0060	-.0001	.0191	-.0005	.0128	-.0004	.0001	.0002

Elem	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.0030	.0016	-.0227	-.0001	.0003	.0004	.0556	-.0003	-.0039
Stddev	.0002	.0007	.0065	.0008	.0001	.0000	.0034	.0002	.0002
%RSD	5.803	39.54	28.60	1152.	21.85	7.504	6.047	84.45	4.415
#1	.0031	.0024	-.0279	-.0009	.0004	.0004	.0554	-.0006	-.0039
#2	.0030	.0014	-.0247	.0000	.0003	.0003	.0590	-.0001	-.0042
#3	.0028	.0012	-.0154	.0007	.0003	.0004	.0523	-.0002	-.0038

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.0005	-.0007	.0047	.0004	.0007	.0022	-.0030	.0001	.0028
Stddev	.0002	.0001	.0001	.0001	.0013	.0002	.0003	.0001	.0002
%RSD	33.28	8.995	1.677	13.50	180.8	9.711	9.913	55.14	6.301
#1	.0004	-.0006	.0046	.0004	.0013	.0022	-.0032	.0002	.0029
#2	.0005	-.0007	.0047	.0003	-.0008	.0023	-.0031	.0001	.0029
#3	.0007	-.0008	.0046	.0004	.0017	.0019	-.0026	.0001	.0026

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3174.4	8704.0	47979.	2469.4
Stddev	9.4	21.7	219.	22.1
%RSD	.29734	.24886	.45708	.89694
#1	3185.1	8729.0	48011.	2473.2
#2	3170.8	8693.1	47745.	2445.6
#3	3167.2	8690.0	48180.	2489.4

Zoom In
Zoom Out

Sample Name: LowStd Acquired: 4/1/2015 7:13:45 Type: Cal
Method: 60102007_041712(v208) Mode: IR Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.0336	1.933	.0947	5.809	4.344	2.735	2.613	1.214	.2801	.3940
Stddev	.0005	.006	.0001	.007	.015	.008	.001	.001	.0004	.0017
%RSD	1.523	.3073	.1182	.1243	.3371	.2995	.0383	.0495	.1551	.4190
#1	.0342	1.931	.0947	5.809	4.349	2.737	2.613	1.215	.2805	.3952
#2	.0332	1.939	.0948	5.816	4.356	2.743	2.614	1.215	.2796	.3921
#3	.0335	1.928	.0946	5.801	4.328	2.726	2.612	1.214	.2800	.3947

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1.402	2.077	.2379	1.544	.6018	6.887	.6729	.6685	.1162	.0693
Stddev	.002	.006	.0008	.003	.0007	.011	.0003	.0003	.0001	.0001
%RSD	.1230	.2807	.3369	.1815	.1166	.1567	.0517	.0419	.0441	.1752
#1	1.404	2.073	.2387	1.547	.6010	6.880	.6727	.6687	.1163	.0695
#2	1.401	2.074	.2371	1.544	.6020	6.900	.6733	.6682	.1162	.0693
#3	1.403	2.084	.2377	1.542	.6024	6.882	.6728	.6687	.1163	.0693

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.2794	.2366	10.03	1.020	.3235	.3398	1.621
Stddev	.0007	.0002	.01	.001	.0007	.0007	.001
%RSD	.2356	.0765	.1385	.0748	.2301	.2074	.0569
#1	.2793	.2368	10.03	1.019	.3227	.3403	1.620
#2	.2801	.2366	10.05	1.020	.3236	.3402	1.622
#3	.2788	.2365	10.02	1.019	.3242	.3390	1.622

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2916.1	8540.0	47325.	2504.8
Stddev	9.5	19.2	147.	6.7
%RSD	.32534	.22472	.31024	.26578
#1	2925.3	8560.2	47158.	2500.8
#2	2916.7	8537.7	47384.	2501.1
#3	2906.3	8522.0	47434.	2512.5

Zoom In
Zoom Out

Sample Name: MidStd Acquired: 4/1/2015 7:16:57 Type: Cal
Method: 60102007_041712(v208) Mode: IR Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.1287	7.802	.3765	22.97	16.90	10.94	10.11	4.665	1.089	1.526
Stddev	.0006	.023	.0004	.07	.04	.03	.01	.005	.001	.004
%RSD	.4505	.2925	.1104	.2966	.2613	.3143	.0756	.1061	.0543	.2721
#1	.1293	7.776	.3764	22.89	16.85	10.90	10.11	4.659	1.089	1.530
#2	.1282	7.818	.3762	23.00	16.93	10.95	10.12	4.667	1.088	1.522
#3	.1284	7.811	.3770	23.01	16.91	10.97	10.11	4.668	1.089	1.525

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5.721	8.558	.9659	5.963	2.282	27.83	2.592	2.720	.4555	.2761
Stddev	.034	.026	.0060	.040	.008	.06	.004	.005	.0010	.0007
%RSD	.6008	.2992	.6175	.6745	.3397	.2003	.1343	.1736	.2130	.2525
#1	5.685	8.529	.9596	5.975	2.273	27.77	2.589	2.716	.4545	.2761
#2	5.724	8.577	.9664	5.919	2.284	27.86	2.595	2.725	.4556	.2755
#3	5.753	8.568	.9715	5.996	2.288	27.87	2.593	2.718	.4564	.2769

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.6951	.8689	37.57	3.918	1.293	1.276	6.225
Stddev	.0005	.0008	.06	.014	.002	.002	.006
%RSD	.0675	.0956	.1595	.3629	.1319	.1586	.0985
#1	.6951	.8681	37.50	3.933	1.292	1.278	6.221
#2	.6947	.8697	37.61	3.905	1.294	1.274	6.232
#3	.6956	.8688	37.59	3.914	1.295	1.278	6.222

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2619.3	8167.6	45071.	2438.4
Stddev	3.5	8.6	105.	30.0
%RSD	.13496	.10474	.23249	1.2316
#1	2621.2	8169.8	45106.	2468.5
#2	2615.2	8158.1	45153.	2438.1
#3	2621.4	8174.8	44953.	2408.5

Zoom In
Zoom Out

Sample Name: HighStd Acquired: 4/1/2015 7:20:30 Type: Cal
Method: 60102007_041712(v208) Mode: IR Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.2574	15.79	.7718	47.02	34.05	21.87	20.26	9.379	2.184	3.091
Stddev	.0007	.03	.0007	.28	.06	.04	.02	.009	.002	.001
%RSD	.2616	.2034	.0941	.5903	.1729	.1667	.1092	.0917	.0765	.0435
#1	.2570	15.76	.7720	46.70	33.99	21.84	20.29	9.389	2.182	3.092
#2	.2570	15.82	.7724	47.18	34.05	21.86	20.26	9.377	2.185	3.093
#3	.2582	15.81	.7710	47.17	34.10	21.91	20.24	9.373	2.186	3.090

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	11.24	17.54	1.934	11.77	4.619	56.03	5.187	5.667	.9355	.5622
Stddev	.04	.02	.004	.10	.003	.13	.004	.008	.0012	.0005
%RSD	.3674	.1155	.2065	.8160	.0625	.2318	.0868	.1362	.1297	.0844
#1	11.20	17.52	1.933	11.66	4.616	55.88	5.189	5.661	.9362	.5627
#2	11.24	17.53	1.932	11.78	4.621	56.13	5.190	5.676	.9361	.5622
#3	11.28	17.56	1.939	11.86	4.620	56.07	5.182	5.663	.9341	.5617

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1.275	1.730	76.33	7.742	2.631	2.569	12.48
Stddev	.001	.002	.15	.037	.006	.002	.01
%RSD	.0728	.0862	.1934	.4728	.2206	.0686	.0854
#1	1.276	1.731	76.16	7.728	2.629	2.567	12.50
#2	1.276	1.728	76.42	7.784	2.638	2.570	12.48
#3	1.274	1.729	76.42	7.715	2.627	2.570	12.48

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2432.6	7885.1	43856.	2394.1
Stddev	3.1	3.1	195.	4.2
%RSD	.12585	.03880	.44409	.17713
#1	2435.4	7883.6	44070.	2399.0
#2	2429.3	7888.6	43807.	2391.4
#3	2433.2	7883.1	43690.	2392.0

Zoom In Zoom Out

Sample Name: HSTD Acquired: 4/1/2015 7:24:09 Type: QC
Method: 60102007_041712(v208) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4982	80.41	4.099	4.031	3.995	79.79	4.027	4.033	4.000	4.028
Stddev	.0016	.14	.007	.014	.006	.12	.005	.004	.007	.017
%RSD	.3160	.1780	.1678	.3365	.1455	.1445	.1274	.1037	.1847	.4207
#1	.4965	80.41	4.091	4.041	4.002	79.92	4.022	4.029	3.992	4.012
#2	.4985	80.55	4.101	4.036	3.994	79.73	4.028	4.035	4.007	4.028
#3	.4996	80.26	4.104	4.016	3.990	79.72	4.032	4.037	4.001	4.046
Check ?	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass
Value										
Range										

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	79.38	80.92	79.88	3.986	4.057	79.81	4.031	4.094	4.099	4.087
Stddev	.17	.14	.14	.012	.005	.12	.007	.004	.008	.010
%RSD	.2128	.1732	.1777	.2953	.1339	.1508	.1811	.0877	.1936	.2438
#1	79.52	81.06	80.03	3.984	4.051	79.89	4.023	4.096	4.092	4.076
#2	79.43	80.90	79.75	3.975	4.059	79.86	4.032	4.095	4.097	4.092
#3	79.20	80.79	79.86	3.998	4.061	79.67	4.037	4.089	4.108	4.094
Check ?	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass
Value										
Range										

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	3.748	3.990	4.008	3.980	4.058	4.003	4.020
Stddev	.008	.002	.007	.018	.004	.005	.005
%RSD	.2194	.0610	.1861	.4589	.0927	.1294	.1377
#1	3.739	3.987	4.013	3.960	4.059	3.998	4.015
#2	3.748	3.990	4.011	3.986	4.061	4.007	4.019
#3	3.755	3.991	3.999	3.995	4.054	4.005	4.026
Check ?	None	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass
Value							
Range							

Zoom In Zoom Out

Sample Name: HSTD Acquired: 4/1/2015 7:24:09 Type: QC
Method: 60102007_041712(v208) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2425.6	7865.1	44053.	2420.6
Stddev	2.3	7.1	109.	7.9
%RSD	.09312	.09055	.24807	.32810
#1	2423.0	7868.7	44084.	2413.0
#2	2426.7	7869.8	43932.	2428.9
#3	2427.1	7856.9	44144.	2419.8

Zoom In Zoom Out

Sample Name: ICV Acquired: 4/1/2015 7:27:35 Type: QC
Method: 60102007_041712(v208) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2551	42.22	2.044	2.121	2.058	43.21	1.999	2.037	2.018	2.006
Stddev	.0011	.10	.001	.009	.008	.09	.001	.001	.005	.001
%RSD	.4358	.2333	.0663	.4101	.3774	.1985	.0315	.0316	.2276	.0304
#1	.2539	42.22	2.042	2.114	2.055	43.24	2.000	2.038	2.017	2.006
#2	.2561	42.13	2.044	2.118	2.052	43.12	1.999	2.037	2.013	2.005
#3	.2552	42.32	2.044	2.130	2.067	43.29	1.998	2.036	2.023	2.006
Check ?	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass
Value										
Range										

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	42.33	42.87	41.68	2.039	1.985	42.46	2.082	1.998	2.023	2.052
Stddev	.16	.11	.17	.006	.007	.16	.002	.002	.001	.006
%RSD	.3837	.2504	.4125	.3185	.3324	.3682	.1088	.0824	.0400	.2743
#1	42.33	42.83	41.67	2.032	1.992	42.42	2.081	1.996	2.023	2.058
#2	42.16	42.79	41.51	2.040	1.985	42.33	2.085	1.999	2.023	2.050
#3	42.49	42.99	41.86	2.045	1.979	42.63	2.081	1.999	2.024	2.047
Check ?	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass
Value										
Range										

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2283	2.084	2.009	2.010	2.070	1.967	2.047
Stddev	.0008	.002	.007	.007	.002	.003	.001
%RSD	.3716	.0835	.3500	.3424	.0920	.1385	.0631
#1	.2274	2.084	2.005	2.005	2.067	1.968	2.047
#2	.2291	2.082	2.005	2.007	2.071	1.964	2.048
#3	.2283	2.085	2.017	2.018	2.071	1.969	2.046
Check ?	None	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass
Value							
Range							

Zoom In Zoom Out

Sample Name: ICV Acquired: 4/1/2015 7:27:35 Type: QC
Method: 60102007_041712(v208) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2616.4	8143.4	44871.	2454.7
Stddev	4.0	14.0	163.	13.6
%RSD	.15280	.17177	.36360	.55592
#1	2614.4	8134.5	44890.	2439.5
#2	2613.8	8136.2	45023.	2458.4
#3	2621.0	8159.5	44698.	2466.1

Zoom In Zoom Out

Sample Name: ICB Acquired: 4/1/2015 7:34:19 Type: QC
Method: 60102007_041712(v208) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0002	-.0060	.0003	.0001	.0000	-.0155	.0000	.0000	-.0002	-.0001
Stddev	.0003	.0073	.0008	.0001	.0000	.0023	.0000	.000	.0002	.0001
%RSD	134.4	120.9	300.5	68.42	108.3	14.92	17330.	184.0	83.34	243.1
#1	-.0004	-.0141	.0009	.0001	.0000	-.0159	.0000	.0000	-.0003	-.0001
#2	-.0004	.0000	-.0007	.0000	.0000	-.0176	-.0001	-.0001	-.0003	-.0002
#3	.0001	-.0040	.0006	.0002	.0001	-.0130	.0000	.0000	.0000	.0001
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0048	.0711	-.0024	-.0001	.0005	.0110	.0000	.0005	-.0007	.0003
Stddev	.0062	.0163	.0138	.0000	.0001	.0170	.0001	.0003	.0005	.0017
%RSD	126.9	22.87	581.4	72.63	29.26	154.8	902.9	67.20	65.16	555.0
#1	.0116	.0674	.0132	.0000	.0006	.0034	-.0001	.0005	-.0003	-.0008
#2	-.0005	.0571	-.0075	-.0001	.0005	.0304	.0002	.0001	-.0013	-.0006
#3	.0035	.0890	-.0128	-.0001	.0003	-.0009	.0000	.0008	-.0006	.0023
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000	.0000	-.0002	.0004	.0000	-.0001	-.0001
Stddev	.0001	.0002	.0001	.0001	.0006	.0001	.0000
%RSD	2623.	1720.	36.87	29.18	3386.	107.8	30.74
#1	.0000	-.0001	-.0003	.0004	.0004	.0000	-.0001
#2	.0001	.0000	-.0001	.0004	.0003	-.0001	-.0001
#3	-.0001	.0002	-.0002	.0002	-.0007	-.0001	-.0001
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Zoom In Zoom Out

Sample Name: ICB Acquired: 4/1/2015 7:34:19 Type: QC
Method: 60102007_041712(v208) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3129.4	8585.8	47114.	2450.3
Stddev	10.3	25.2	88.	22.0
%RSD	.32854	.29366	.18715	.89626
#1	3138.9	8614.9	47199.	2442.5
#2	3118.5	8569.8	47023.	2433.4
#3	3130.9	8572.8	47120.	2475.1

Zoom In Zoom Out

Sample Name: CRIA Acquired: 4/1/2015 7:47:46 Type: QC
Method: 60102007_041712(v208) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0104	.1925	.0105	.2096	.0052	1.042	.0052	.0537	.0105	.0273
Stddev	.0006	.0151	.0007	.0003	.0001	.003	.0000	.0000	.0003	.0002
%RSD	6.009	7.840	6.714	.1442	1.348	.3128	.3012	.0561	2.434	.8242
#1	.0101	.1804	.0113	.2100	.0053	1.043	.0052	.0536	.0107	.0274
#2	.0100	.2094	.0101	.2094	.0052	1.045	.0052	.0536	.0102	.0273
#3	.0111	.1876	.0100	.2094	.0051	1.038	.0052	.0537	.0105	.0270
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value										
Range										

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.3127	10.60	5.331	.0161	.0500	10.47	.0435	.0048	.0042	.0096
Stddev	.0045	.01	.068	.0000	.0001	.01	.0001	.0001	.0006	.0002
%RSD	1.437	.0811	1.267	.1563	.1809	.1339	.1998	2.558	14.95	2.145
#1	.3097	10.60	5.396	.0161	.0501	10.45	.0434	.0049	.0038	.0098
#2	.3105	10.61	5.261	.0161	.0499	10.48	.0434	.0046	.0049	.0094
#3	.3179	10.60	5.337	.0160	.0499	10.46	.0435	.0048	.0038	.0096
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value										
Range										

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0171	.0537	.0101	.0100	.0096	.0505	.0216
Stddev	.0002	.0001	.0001	.0002	.0009	.0000	.0001
%RSD	1.186	.1962	1.215	1.638	9.801	.0635	.4166
#1	.0170	.0536	.0100	.0101	.0103	.0505	.0217
#2	.0170	.0537	.0102	.0098	.0086	.0506	.0217
#3	.0173	.0538	.0101	.0099	.0100	.0505	.0215
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Zoom In Zoom Out

Sample Name: CRIA Acquired: 4/1/2015 7:47:46 Type: QC
Method: 60102007_041712(v208) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2939.5	8354.8	46029.	2421.0
Stddev	6.6	7.2	155.	16.4
%RSD	.22444	.08566	.33565	.67815
#1	2945.8	8359.9	45870.	2430.0
#2	2940.2	8357.9	46178.	2402.1
#3	2932.7	8346.6	46040.	2431.0

Zoom In Zoom Out

Sample Name: ICSA Acquired: 4/1/2015 7:51:16 Type: QC
Method: 60102007_041712(v209) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0005	509.2	.0000	.0000	.0001	486.0	.0000	-.0004	.0006	.0000
Stddev	.0002	.9	.000	.0001	.0000	9.3	.0001	.0001	.0000	.001
%RSD	43.37	.1728	875.3	230.6	11.11	1.923	234.0	37.09	6.848	1232.
#1	.0006	508.3	.0003	.0002	.0002	494.2	.0000	-.0004	.0006	.0002
#2	.0006	509.2	.0000	.0000	.0001	487.9	.0001	-.0004	.0006	-.0006
#3	.0002	510.1	-.0005	.0000	.0001	475.8	.0001	-.0002	.0006	.0003
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	188.2	.0973	501.0	-.0003	.0008	.1675	.0003	.0001	.0000	.0001
Stddev	.1	.0145	1.4	.0001	.0003	.0140	.0004	.0005	.0009	.0024
%RSD	.0425	14.88	.2709	15.74	35.62	8.384	134.7	822.0	14750.	2675.
#1	188.3	.0841	501.4	-.0004	.0011	.1548	.0007	.0001	-.0010	-.0025
#2	188.3	.0950	502.2	-.0003	.0006	.1826	.0000	-.0004	.0007	.0023
#3	188.1	.1128	499.5	-.0003	.0007	.1652	.0002	.0005	.0003	.0005
Check ?	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0491	.0000	-.0005	-.0009	.0001	.0000	-.0023
Stddev	.0006	.0003	.0003	.0002	.0011	.000	.0001
%RSD	1.267	1038.	66.50	19.18	1705.	15980.	2.228
#1	.0498	.0001	-.0007	-.0010	-.0003	-.0003	-.0023
#2	.0491	-.0003	-.0006	-.0007	-.0008	.0003	-.0024
#3	.0486	.0002	-.0001	-.0011	.0013	.0000	-.0023
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Zoom In Zoom Out

Sample Name: ICSA Acquired: 4/1/2015 7:51:16 Type: QC
Method: 60102007_041712(v209) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2263.6	7417.4	39592.	2296.7
Stddev	5.4	.9	137.	24.8
%RSD	.23977	.01162	.34611	1.0806
#1	2267.8	7418.4	39565.	2273.9
#2	2265.5	7416.9	39471.	2293.1
#3	2257.5	7416.9	39741.	2323.1

Zoom In Zoom Out

Sample Name: ICSAB Acquired: 4/1/2015 7:56:45 Type: QC
Method: 60102007_041712(v209) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.9870	500.1	1.060	.5191	.5130	484.9	.9205	.4739	.4863	.5442
Stddev	.0006	2.4	.003	.0029	.0026	1.9	.0018	.0012	.0003	.0012
%RSD	.0581	.4771	.2485	.5681	.5043	.3972	.1959	.2485	.0532	.2291
#1	.9865	500.6	1.057	.5199	.5130	485.1	.9185	.4725	.4860	.5435
#2	.9868	502.3	1.062	.5216	.5155	486.7	.9218	.4746	.4864	.5456
#3	.9876	497.6	1.060	.5159	.5104	482.9	.9213	.4744	.4865	.5434
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value										
Range										

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	188.9	.0797	493.1	.5020	.9456	.1747	.9567	.9498	1.066	1.029
Stddev	1.0	.0466	4.6	.0008	.0026	.0087	.0015	.0011	.005	.002
%RSD	.5443	58.43	.9407	.1690	.2735	4.970	.1619	.1138	.4501	.1805
#1	189.2	.0473	495.3	.5028	.9429	.1671	.9550	.9494	1.061	1.027
#2	189.8	.1331	496.2	.5020	.9460	.1842	.9570	.9490	1.067	1.030
#3	187.7	.0587	487.7	.5011	.9480	.1728	.9580	.9510	1.071	1.030
Check ?	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value										
Range										

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1071	.9523	1.026	1.008	.9574	.4777	.9483
Stddev	.0001	.0022	.004	.001	.0024	.0015	.0016
%RSD	.0862	.2349	.3477	.0955	.2544	.3069	.1660
#1	.1071	.9498	1.027	1.009	.9568	.4768	.9465
#2	.1072	.9531	1.029	1.008	.9553	.4769	.9490
#3	.1071	.9541	1.022	1.007	.9601	.4794	.9493
Check ?	None	Chk Pass	None	None	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Zoom In Zoom Out

Sample Name: ICSAB Acquired: 4/1/2015 7:56:45 Type: QC
Method: 60102007_041712(v209) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2255.7	7442.0	40300.	2302.7
Stddev	4.4	8.9	43.	27.0
%RSD	.19371	.11929	.10726	1.1738
#1	2253.6	7446.7	40277.	2289.8
#2	2260.8	7431.8	40272.	2284.6
#3	2252.8	7447.6	40350.	2333.8

Zoom In
Zoom Out

Sample Name: CCV Acquired: 4/1/2015 7:59:54 Type: QC
Method: 60102007_041712(v209) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2523	40.43	2.024	2.022	2.020	40.51	2.010	2.014	2.000	2.027
Stddev	.0008	.17	.004	.011	.008	.22	.002	.003	.006	.006
%RSD	.3005	.4324	.1745	.5520	.4081	.5352	.1125	.1240	.2996	.2740
#1	.2519	40.58	2.020	2.031	2.027	40.69	2.009	2.012	2.001	2.032
#2	.2519	40.46	2.025	2.025	2.022	40.57	2.008	2.013	1.994	2.021
#3	.2532	40.24	2.026	2.009	2.011	40.27	2.013	2.017	2.006	2.028
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value Range										

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	40.99	41.34	40.69	2.019	2.010	40.68	2.033	1.956	2.023	2.035
Stddev	.24	.24	.30	.014	.006	.24	.003	.003	.005	.008
%RSD	.5856	.5701	.7294	.7047	.2882	.6007	.1407	.1616	.2630	.3901
#1	41.20	41.54	41.03	2.025	2.004	40.87	2.030	1.953	2.017	2.027
#2	41.05	41.40	40.57	2.003	2.010	40.76	2.033	1.955	2.024	2.035
#3	40.73	41.08	40.48	2.030	2.016	40.40	2.036	1.959	2.028	2.043
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value Range										

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.071	1.993	2.023	2.010	1.995	1.991	2.002
Stddev	.003	.003	.011	.005	.003	.005	.002
%RSD	.1594	.1314	.5357	.2392	.1548	.2686	.0974
#1	2.072	1.992	2.030	2.012	1.992	1.993	2.002
#2	2.068	1.991	2.028	2.005	1.994	1.985	2.001
#3	2.074	1.996	2.010	2.014	1.998	1.995	2.004
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Pass
Value Range							

Zoom In
Zoom Out

Sample Name: CCV Acquired: 4/1/2015 7:59:54 Type: QC
Method: 60102007_041712(v209) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2599.7	8063.7	44823.	2422.9
Stddev	3.0	2.9	133.	15.8
%RSD	.11419	.03654	.29753	.65300
#1	2603.1	8064.7	44805.	2410.0
#2	2598.1	8066.0	44964.	2418.1
#3	2597.8	8060.4	44699.	2440.5

Zoom In
Zoom Out

Sample Name: CCB Acquired: 4/1/2015 8:03:45 Type: QC
Method: 60102007_041712(v209) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0003	-.0058	-.0004	.0004	.0004	-.0036	.0001	.0001	.0005
Stddev	.0004	.0155	.0005	.0002	.0001	.0022	.0000	.0001	.0002
%RSD	111.1	266.6	130.2	59.10	20.70	61.28	32.39	79.61	40.58
#1	.0007	-.0225	-.0009	.0001	.0005	-.0012	.0001	.0002	.0006
#2	.0000	-.0030	-.0005	.0006	.0003	-.0039	.0001	.0000	.0002
#3	.0002	.0081	.0001	.0005	.0004	-.0056	.0001	.0002	.0005
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0004	.0204	.0600	-.0015	.0002	F.0013	-.0304	.0000	.0000
Stddev	.0002	.0053	.0120	.0314	.0000	.0004	.0149	.0001	.000
%RSD	42.53	25.91	19.98	2058.	24.99	33.14	49.10	711.5	1569.
#1	.0002	.0228	.0603	-.0125	.0002	.0017	-.0183	-.0001	.0002
#2	.0006	.0240	.0479	-.0260	.0002	.0012	-.0259	.0001	-.0004
#3	.0004	.0143	.0719	.0339	.0002	.0009	-.0470	.0001	.0002
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit						.0010			
Low Limit						-.0010			

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0003	-.0008	.0005	.0003	.0002	.0007	-.0003	.0000	.0000
Stddev	.0004	.0017	.0004	.0001	.0001	.0001	.0000	.0002	.0000
%RSD	112.3	206.1	79.39	50.04	63.82	14.20	17.71	693.1	200.8
#1	.0001	-.0016	.0010	.0004	.0001	.0008	-.0003	-.0001	.0001
#2	-.0006	-.0019	.0004	.0002	.0002	.0008	-.0003	-.0001	.0000
#3	-.0003	.0011	.0002	.0002	.0004	.0006	-.0002	.0002	.0000
Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Zoom In
Zoom Out

Sample Name: CCB Acquired: 4/1/2015 8:03:45 Type: QC
Method: 60102007_041712(v209) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3103.9	8425.1	46944.	2378.8
Stddev	5.2	19.5	373.	6.3
%RSD	.16892	.23124	.79547	.26298
#1	3102.7	8422.7	47374.	2372.8
#2	3109.6	8445.7	46764.	2385.3
#3	3099.3	8407.0	46695.	2378.2

Zoom In Zoom Out

Sample Name: FA22900-4 Acquired: 4/1/2015 8:07:20 Type: Unk
Method: 60102007_041712(v209) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	.0004	.0151	.0002	.0300	.0001	9.203	.0000	.0019	.0073	.0010
Stddev	.0003	.0049	.0003	.0003	.0001	.007	.0000	.0001	.0001	.0000
%RSD	85.90	32.54	132.1	.9972	109.3	.0806	147.0	4.754	1.830	2.826
#1	.0007	.0124	.0005	.0297	.0000	9.197	.0000	.0018	.0074	.0010
#2	.0003	.0208	.0003	.0300	.0001	9.211	.0000	.0020	.0072	.0009
#3	.0001	.0121	-.0001	.0303	.0001	9.200	.0000	.0019	.0072	.0010

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	9.489	2.369	3.092	.1185	.0003	16.74	.0047	-.0001	-.0002	.0003
Stddev	.026	.011	.022	.0001	.0001	.03	.0001	.0003	.0003	.0001
%RSD	.2780	.4822	.7179	.0776	30.48	.1890	2.252	212.1	200.3	51.57
#1	9.487	2.374	3.074	.1184	.0004	16.73	.0046	.0000	-.0005	.0002
#2	9.516	2.376	3.117	.1185	.0004	16.72	.0048	.0001	-.0001	.0004
#3	9.464	2.356	3.085	.1186	.0002	16.78	.0048	-.0005	.0001	.0002

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	4.810	-.0006	.1629	.0012	-.0014	.0005	.0101
Stddev	.010	.0003	.0003	.0001	.0004	.0001	.0000
%RSD	.2167	45.56	.1569	6.914	27.26	11.99	.1648
#1	4.798	-.0006	.1631	.0012	-.0018	.0005	.0101
#2	4.812	-.0004	.1630	.0012	-.0010	.0005	.0101
#3	4.819	-.0010	.1626	.0011	-.0015	.0006	.0101

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	2916.8	8294.1	46241.	2392.9
Stddev	3.9	13.2	135.	18.2
%RSD	.13240	.15921	.29102	.76025
#1	2921.0	8304.8	46088.	2403.2
#2	2913.3	8298.2	46340.	2403.6
#3	2916.3	8279.3	46296.	2371.9

Zoom In Zoom Out

Sample Name: FA22900-5 Acquired: 4/1/2015 8:11:26 Type: Unk
Method: 60102007_041712(v209) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	-.0001	.0148	-.0010	.0001	.0001	.0375	-.0001	.0000	.0001	.0000
Stddev	.0004	.0043	.0005	.0004	.0001	.0046	.0000	.0001	.0001	.0002
%RSD	808.5	28.83	49.59	571.9	49.44	12.32	34.97	320.2	191.1	757.3
#1	-.0005	.0107	-.0015	-.0002	.0002	.0421	-.0001	-.0001	.0002	.0001
#2	.0000	.0192	-.0006	-.0001	.0001	.0375	-.0001	.0001	.0000	.0002
#3	.0003	.0146	-.0008	.0005	.0001	.0328	.0000	.0000	.0000	-.0002

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	.0143	.0631	.0099	.0002	-.0003	-.0194	.0002	.0003	.0014	.0003
Stddev	.0018	.0241	.0055	.0001	.0001	.0104	.0002	.0003	.0006	.0007
%RSD	12.41	38.17	54.95	25.96	21.07	53.54	125.0	91.16	45.07	242.4
#1	.0161	.0887	.0143	.0002	-.0004	-.0256	.0004	.0003	.0010	.0002
#2	.0141	.0595	.0116	.0001	-.0003	-.0250	.0001	.0001	.0010	-.0004
#3	.0126	.0410	.0038	.0002	-.0003	-.0074	.0000	.0007	.0021	.0010

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	.0458	-.0003	.0001	.0003	-.0011	.0000	.0095
Stddev	.0004	.0002	.0001	.0001	.0001	.000	.0000
%RSD	.9130	55.69	155.2	23.79	7.515	339.0	.3170
#1	.0454	-.0006	.0000	.0002	-.0011	.0000	.0095
#2	.0458	-.0002	.0000	.0003	-.0012	-.0001	.0095
#3	.0462	-.0003	.0002	.0002	-.0011	.0001	.0095

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	3113.9	8471.5	47607.	2414.7
Stddev	12.8	19.5	214.	15.4
%RSD	.41195	.23076	.45055	.63580
#1	3120.3	8473.0	47707.	2411.5
#2	3122.3	8490.2	47361.	2401.1
#3	3099.1	8451.2	47754.	2431.3

Zoom In Zoom Out

Sample Name: MP28734-MB1 Acquired: 4/1/2015 8:15:34 Type: QC
Method: 60102007_041712(v209) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0004	.0049	-.0010	.0001	.0000	.0157	.0000	-.0002	.0005	.0001
Stddev	.0002	.0082	.0005	.0002	.0001	.0026	.000	.0000	.0003	.0001
%RSD	59.23	166.9	47.24	320.8	250.7	16.62	88.77	22.17	49.05	93.63
#1	-.0004	-.0036	-.0005	.0003	.0000	.0175	.0000	-.0002	.0006	.0002
#2	-.0001	.0128	-.0014	-.0001	.0000	.0127	-.0001	-.0001	.0007	.0002
#3	-.0005	.0056	-.0012	.0000	.0001	.0170	-.0001	-.0002	.0002	.0000
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0167	.0298	-.0004	.0003	-.0003	-.0633	.0003	.0004	.0000	.0011
Stddev	.0033	.0423	.0251	.0001	.0001	.0110	.0002	.0002	.001	.0002
%RSD	19.50	142.2	7015.	26.43	38.28	17.40	47.32	62.12	2465.	14.92
#1	.0184	.0784	.0272	.0002	-.0004	-.0725	.0005	.0005	.0006	.0009
#2	.0130	.0009	-.0065	.0003	-.0002	-.0664	.0002	.0006	-.0005	.0012
#3	.0188	.0100	-.0218	.0002	-.0005	-.0511	.0003	.0001	-.0001	.0012
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0167	.0232	-.0001	.0001	-.0017	.0000	.0014
Stddev	.0003	.0002	.0001	.0001	.0001	.0002	.0000
%RSD	1.909	.6876	53.49	75.52	7.555	13250.	2.038
#1	.0167	.0232	-.0001	.0000	-.0017	.0002	.0014
#2	.0164	.0230	-.0002	.0001	-.0016	-.0002	.0013
#3	.0170	.0233	-.0001	.0002	-.0019	.0000	.0014
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Zoom In Zoom Out

Sample Name: MP28734-MB1 Acquired: 4/1/2015 8:15:34 Type: QC
Method: 60102007_041712(v209) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3114.3	8490.4	47932.	2482.2
Stddev	3.9	4.5	230.	17.4
%RSD	.12497	.05253	.47896	.69904
#1	3118.5	8491.6	47685.	2487.6
#2	3113.8	8494.1	47972.	2462.8
#3	3110.7	8485.4	48139.	2496.3

Zoom In Zoom Out

Sample Name: MP28734-B1 Acquired: 4/1/2015 8:19:44 Type: QC
Method: 60102007_041712(v209) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0514	28.09	2.057	2.152	.0533	26.23	.0504	.5135	.2106	.2694
Stddev	.0008	.12	.001	.014	.0004	.13	.0001	.0005	.0010	.0004
%RSD	1.490	.4353	.0387	.6531	.6657	.4842	.2133	.1065	.4595	.1663
#1	.0506	27.95	2.057	2.137	.0531	26.08	.0505	.5139	.2105	.2689
#2	.0521	28.16	2.056	2.158	.0531	26.30	.0505	.5136	.2116	.2697
#3	.0514	28.16	2.057	2.163	.0537	26.30	.0503	.5129	.2097	.2697
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value										
Range										

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	27.46	26.49	26.26	.5346	.5234	26.26	.5281	.4866	.5129	2.044
Stddev	.19	.11	.16	.0006	.0002	.10	.0002	.0003	.0019	.006
%RSD	.6804	.4119	.5941	.1166	.0470	.3841	.0375	.0642	.3708	.2840
#1	27.26	26.37	26.09	.5341	.5232	26.14	.5282	.4870	.5134	2.051
#2	27.51	26.55	26.38	.5353	.5237	26.29	.5282	.4865	.5108	2.040
#3	27.62	26.56	26.32	.5344	.5234	26.33	.5278	.4864	.5146	2.042
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value										
Range										

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0195	.5753	.5462	.5405	1.976	.4989	.5098
Stddev	.0006	.0046	.0023	.0015	.003	.0004	.0008
%RSD	2.979	.8081	.4262	.2772	.1550	.0886	.1474
#1	.0190	.5800	.5439	.5394	1.976	.4987	.5106
#2	.0193	.5751	.5464	.5422	1.973	.4994	.5098
#3	.0201	.5707	.5485	.5398	1.979	.4987	.5091
Check ?	None	Chk Pass	None	None	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Zoom In Zoom Out

Sample Name: MP28734-B1 Acquired: 4/1/2015 8:19:44 Type: QC
Method: 60102007_041712(v209) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2739.6	8224.4	45243.	2394.3
Stddev	3.2	13.4	83.	8.1
%RSD	.11567	.16315	.18441	.33737
#1	2736.4	8208.9	45147.	2400.8
#2	2742.8	8232.4	45277.	2396.8
#3	2739.7	8231.9	45304.	2385.3

Zoom In Zoom Out

Sample Name: FA23189-20 Acquired: 4/1/2015 8:23:41 Type: Unk
Method: 60102007_041712(v209) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)
Avg	-.0008	112.4	.0450	1.754	.0042	F2915.	-.0017	.0329	.0919
Stddev	.0003	.3	.0006	.003	.0001	38.	.0000	.0002	.0009
%RSD	35.46	.2383	1.238	.1464	1.776	1.317	2.705	.5183	.9658
#1	-.0009	112.7	.0453	1.757	.0042	2956.	-.0017	.0330	.0909
#2	-.0005	112.2	.0444	1.754	.0041	2909.	-.0017	.0329	.0923
#3	-.0010	112.3	.0454	1.752	.0043	2879.	-.0017	.0327	.0925

Elem	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
IS Ref	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)
Avg	.0872	87.25	36.16	70.51	1.338	.0079	F82.70	.0826	.0525
Stddev	.0006	.30	.09	.31	.003	.0001	.29	.0002	.0012
%RSD	.7289	.3390	.2504	.4390	.2457	1.260	.3549	.2288	2.256
#1	.0867	87.59	36.26	70.84	1.342	.0080	83.04	.0827	.0512
#2	.0879	87.13	36.14	70.23	1.337	.0080	82.55	.0827	.0535
#3	.0869	87.04	36.08	70.45	1.336	.0078	82.52	.0824	.0528

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	.0037	.0005	4.998	.0186	F15.33	1.886	-.0065	.2054	.2248
Stddev	.0007	.0029	.009	.0003	.34	.003	.0008	.0009	.0001
%RSD	19.33	603.9	.1763	1.501	2.213	.1489	12.48	.4203	.0626
#1	.0033	-.0015	5.008	.0188	15.71	1.888	-.0067	.2064	.2248
#2	.0033	-.0009	4.996	.0182	15.22	1.886	-.0057	.2047	.2249
#3	.0046	.0038	4.991	.0187	15.06	1.883	-.0073	.2053	.2246

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	1932.5	7321.1	40376.	2475.4
Stddev	2.9	5.3	135.	25.3
%RSD	.14790	.07232	.33484	1.0219
#1	1935.1	7324.1	40239.	2446.4
#2	1929.4	7315.0	40379.	2492.8
#3	1933.1	7324.2	40510.	2487.0

Zoom In Zoom Out

Sample Name: MP28734-D1 Acquired: 4/1/2015 8:27:56 Type: Unk
Method: 60102007_041712(v209) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)
Avg	-.0006	128.7	.0520	1.941	.0047	F3092.	-.0014	.0373	.1050
Stddev	.0007	.4	.0002	.007	.0000	23.	.0000	.0001	.0002
%RSD	109.8	.3030	.4320	.3747	.8346	.7304	.9232	.2984	.1569
#1	.0001	128.3	.0518	1.933	.0046	3088.	-.0014	.0372	.1048
#2	-.0007	128.8	.0523	1.941	.0047	3072.	-.0014	.0373	.1051
#3	-.0013	129.0	.0520	1.948	.0047	3117.	-.0014	.0374	.1052

Elem	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
IS Ref	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)
Avg	.1003	97.37	41.84	79.11	1.539	.0092	F94.09	.0945	.0642
Stddev	.0007	.15	.08	.13	.001	.0001	.21	.0004	.0008
%RSD	.7432	.1586	.2024	.1654	.0684	1.471	.2269	.4149	1.263
#1	.1004	97.19	41.79	78.96	1.541	.0090	93.87	.0946	.0642
#2	.0996	97.43	41.80	79.13	1.538	.0092	94.10	.0940	.0634
#3	.1011	97.48	41.94	79.22	1.539	.0093	94.30	.0948	.0650

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	.0035	-.0015	4.381	.0225	F16.52	2.119	-.0076	.2320	.2580
Stddev	.0020	.0014	.013	.0005	.14	.003	.0028	.0010	.0002
%RSD	56.21	90.18	.2967	2.338	.8612	.1416	37.02	.4169	.0684
#1	.0023	.0000	4.369	.0225	16.37	2.121	-.0062	.2309	.2578
#2	.0058	-.0026	4.379	.0220	16.55	2.116	-.0109	.2325	.2581
#3	.0025	-.0020	4.395	.0230	16.65	2.120	-.0058	.2327	.2582

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	1880.6	7295.2	40547.	2507.5
Stddev	1.6	11.4	19.	12.6
%RSD	.08442	.15603	.04633	.50437
#1	1882.4	7293.6	40536.	2520.6
#2	1880.0	7307.3	40569.	2506.7
#3	1879.4	7284.7	40536.	2495.3

Zoom In
Zoom Out

Sample Name: MP28734-SD1 Acquired: 4/1/2015 8:32:11 Type: Unk
Method: 60102007_041712(v209) Mode: CONC Corr. Factor: 5.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)
Avg	-.0016	133.1	.0464	2.083	.0054	F4224.	-.0025	.0419	.1153
Stddev	.0024	.2	.0047	.003	.0001	48.	.0002	.0005	.0013
%RSD	143.6	.1784	10.21	.1498	1.296	1.137	9.412	1.264	1.153
#1	-.0043	132.9	.0409	2.086	.0055	4272.	-.0026	.0425	.1145
#2	.0001	133.3	.0486	2.080	.0054	4224.	-.0026	.0415	.1169
#3	-.0007	133.1	.0496	2.082	.0055	4176.	-.0022	.0416	.1146

Elem	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
IS Ref	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)
Avg	.1067	107.8	43.38	88.15	1.649	.0040	101.2	.1056	.0414
Stddev	.0015	.1	.29	.24	.010	.0003	.2	.0006	.0007
%RSD	1.367	.0967	.6762	.2727	.6027	8.338	.1866	.5996	1.635
#1	.1053	107.9	43.50	88.31	1.658	.0037	101.2	.1053	.0408
#2	.1082	107.8	43.59	88.26	1.650	.0044	101.0	.1052	.0421
#3	.1066	107.7	43.05	87.87	1.638	.0040	101.4	.1064	.0412

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	-.0015	-.0124	9.195	.0216	19.19	2.330	-.0121	.2491	.2986
Stddev	.0036	.0043	.002	.0004	.02	.013	.0021	.0013	.0006
%RSD	248.2	34.41	.0221	1.932	.0835	.5472	17.62	.5164	.1959
#1	-.0007	-.0164	9.195	.0215	19.21	2.344	-.0111	.2493	.2992
#2	-.0054	-.0079	9.193	.0221	19.18	2.328	-.0145	.2478	.2984
#3	.0017	-.0129	9.197	.0213	19.18	2.318	-.0105	.2504	.2981

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	2379.4	7664.1	42151.	2339.8
Stddev	3.9	11.9	191.	12.3
%RSD	.16361	.15562	.45354	.52712
#1	2377.4	7650.3	42041.	2334.9
#2	2376.9	7670.6	42040.	2330.7
#3	2383.9	7671.3	42372.	2353.9

Zoom In
Zoom Out

Sample Name: MP28734-PS1 Acquired: 4/1/2015 8:36:22 Type: Unk
Method: 60102007_041712(v209) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)
Avg	.0519	114.3	.1589	2.019	.0485	F2882.	.0424	.0769	.1385
Stddev	.0004	.2	.0007	.003	.0001	21.	.0000	.0000	.0006
%RSD	.7579	.2147	.4558	.1523	.1651	.7172	.0812	.0557	.4005
#1	.0521	114.5	.1581	2.020	.0486	2893.	.0424	.0769	.1380
#2	.0515	114.4	.1595	2.022	.0485	2895.	.0424	.0769	.1385
#3	.0522	114.0	.1591	2.016	.0485	2858.	.0424	.0770	.1391

Elem	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
IS Ref	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)
Avg	.1902	87.75	48.53	72.08	1.374	.0997	F93.96	.1730	.1027
Stddev	.0001	.20	.15	.28	.003	.0003	.31	.0004	.0008
%RSD	.0388	.2316	.3108	.3950	.2060	.3156	.3316	.2185	.7647
#1	.1903	87.89	48.61	72.16	1.374	.0998	94.27	.1734	.1026
#2	.1902	87.83	48.62	72.32	1.372	.0999	93.96	.1727	.1020
#3	.1901	87.51	48.35	71.77	1.377	.0993	93.65	.1729	.1035

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	.1076	.1136	8.191	.0602	F15.57	2.009	.0899	.2510	.4462
Stddev	.0009	.0030	.014	.0003	.20	.004	.0009	.0008	.0003
%RSD	.8158	2.677	.1686	.4692	1.287	.1975	1.054	.3059	.0778
#1	.1084	.1139	8.207	.0599	15.78	2.008	.0910	.2513	.4458
#2	.1076	.1104	8.186	.0601	15.55	2.006	.0892	.2501	.4463
#3	.1067	.1165	8.180	.0605	15.38	2.013	.0895	.2515	.4465

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	1885.9	7150.4	39784.	2386.1
Stddev	5.7	2.1	69.	14.1
%RSD	.30198	.02948	.17410	.59137
#1	1891.0	7150.0	39847.	2388.9
#2	1887.1	7152.6	39797.	2370.8
#3	1879.8	7148.4	39710.	2398.6

Zoom In
Zoom Out

Sample Name: MP28734-S1 Acquired: 4/1/2015 8:40:36 Type: Unk
Method: 60102007_041712(v209) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)
Avg	.0514	138.3	2.126	3.460	.0474	F2603.	.0407	.4535	.2695
Stddev	.0003	.0	.004	.005	.0001	56.	.0001	.0006	.0009
%RSD	.6781	.0354	.1633	.1467	.1392	2.140	.1238	.1215	.3202
#1	.0518	138.3	2.127	3.457	.0475	2632.	.0406	.4535	.2696
#2	.0511	138.3	2.122	3.466	.0474	2538.	.0406	.4530	.2685
#3	.0515	138.3	2.129	3.457	.0474	2637.	.0407	.4541	.2703

Elem	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
IS Ref	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)
Avg	.3302	106.0	64.53	91.79	1.760	.4453	F103.6	.5083	.5290
Stddev	.0003	.1	.10	.21	.005	.0005	.2	.0006	.0007
%RSD	.0906	.0636	.1554	.2291	.2586	.1215	.2124	.1263	.1399
#1	.3305	106.0	64.45	91.98	1.755	.4452	103.7	.5090	.5297
#2	.3300	105.9	64.49	91.56	1.760	.4448	103.4	.5081	.5282
#3	.3301	105.9	64.64	91.81	1.764	.4459	103.8	.5078	.5290

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	.1661	2.150	3.928	.4516	F14.31	2.392	1.831	.6337	.6436
Stddev	.0005	.004	.008	.0004	.17	.004	.005	.0022	.0005
%RSD	.3012	.2078	.1969	.0850	1.213	.1842	.2863	.3477	.0830
#1	.1656	2.151	3.929	.4512	14.51	2.387	1.837	.6326	.6441
#2	.1664	2.146	3.920	.4520	14.20	2.393	1.827	.6323	.6438
#3	.1664	2.154	3.936	.4515	14.22	2.395	1.829	.6363	.6430

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	1920.1	7240.8	40184.	2327.6
Stddev	3.3	2.6	148.	18.0
%RSD	.17213	.03524	.36947	.77355
#1	1916.8	7242.0	40164.	2316.3
#2	1923.4	7237.9	40342.	2348.4
#3	1920.1	7242.6	40047.	2318.1

Zoom In
Zoom Out

Sample Name: MP28734-S2 Acquired: 4/1/2015 8:44:51 Type: Unk
Method: 60102007_041712(v209) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)
Avg	.0518	119.9	2.185	3.379	.0480	F2440.	.0423	.4668	.2606
Stddev	.0007	.3	.006	.010	.0002	6.	.0001	.0009	.0006
%RSD	1.343	.2899	.2949	.2963	.3343	.2293	.2630	.1843	.2285
#1	.0518	119.5	2.182	3.371	.0478	2443.	.0422	.4660	.2606
#2	.0511	120.2	2.181	3.390	.0480	2434.	.0424	.4665	.2612
#3	.0525	120.0	2.193	3.376	.0481	2444.	.0424	.4677	.2600

Elem	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
IS Ref	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)
Avg	.3212	93.59	59.60	75.81	1.526	.4643	F94.86	.5138	.5198
Stddev	.0005	.29	.17	.23	.003	.0008	.14	.0006	.0018
%RSD	.1422	.3105	.2821	.3093	.2198	.1622	.1483	.1253	.3469
#1	.3217	93.26	59.41	75.55	1.522	.4635	94.69	.5133	.5191
#2	.3212	93.78	59.69	75.87	1.528	.4643	94.92	.5136	.5185
#3	.3208	93.74	59.70	76.01	1.528	.4650	94.95	.5145	.5219

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	.1823	2.219	3.540	.4714	F13.44	2.092	1.857	.6229	.6247
Stddev	.0008	.004	.005	.0013	.09	.004	.003	.0006	.0011
%RSD	.4316	.1705	.1310	.2665	.6456	.2092	.1845	.0939	.1700
#1	.1819	2.215	3.538	.4704	13.54	2.087	1.854	.6223	.6235
#2	.1817	2.220	3.536	.4709	13.41	2.095	1.857	.6234	.6253
#3	.1832	2.222	3.545	.4728	13.37	2.094	1.861	.6231	.6254

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	1945.4	7111.6	39542.	2264.1
Stddev	4.3	13.8	173.	6.7
%RSD	.21905	.19344	.43808	.29558
#1	1950.1	7123.3	39659.	2267.1
#2	1944.1	7096.4	39343.	2268.8
#3	1941.9	7114.9	39624.	2256.5

Zoom In
Zoom Out

Sample Name: CCV Acquired: 4/1/2015 8:49:05 Type: QC
Method: 60102007_041712(v209) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2541	40.67	2.040	2.093	1.934	40.29	2.019	2.024	2.010
Stddev	.0005	.14	.002	.002	.003	.14	.002	.001	.003
%RSD	.1809	.3326	.0867	.0789	.1605	.3502	.0906	.0448	.1320
#1	.2546	40.51	2.038	2.094	1.931	40.13	2.017	2.023	2.013
#2	.2540	40.77	2.042	2.091	1.937	40.38	2.021	2.025	2.009
#3	.2537	40.73	2.041	2.094	1.934	40.37	2.020	2.024	2.008
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value									
Range									

Elem	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.051	40.62	F44.89	39.98	2.020	2.013	42.20	2.040	1.957
Stddev	.003	.06	.15	.16	.005	.007	.12	.002	.006
%RSD	.1355	.1510	.3367	.4099	.2691	.3677	.2738	.0795	.3121
#1	2.054	40.55	44.73	39.79	2.022	2.005	42.08	2.038	1.952
#2	2.049	40.65	44.92	40.07	2.023	2.015	42.31	2.040	1.964
#3	2.051	40.66	45.03	40.07	2.013	2.020	42.21	2.041	1.956
Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value			40.00						
Range			10.00%						

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.025	2.051	2.085	2.001	2.069	2.023	2.003	1.996	2.011
Stddev	.002	.002	.004	.002	.004	.004	.004	.003	.003
%RSD	.1179	.1020	.1700	.1025	.1850	.1780	.2237	.1596	.1514
#1	2.027	2.049	2.084	2.002	2.065	2.021	2.002	1.998	2.010
#2	2.022	2.053	2.083	2.003	2.072	2.027	2.008	1.998	2.015
#3	2.025	2.051	2.089	1.999	2.071	2.021	1.999	1.992	2.010
Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value									
Range									

Zoom In
Zoom Out

Sample Name: CCV Acquired: 4/1/2015 8:49:05 Type: QC
Method: 60102007_041712(v209) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2603.9	8066.6	44754.	2269.9
Stddev	8.0	12.7	91.	21.7
%RSD	.30600	.15686	.20400	.95604
#1	2610.8	8079.7	44726.	2294.9
#2	2595.2	8054.5	44680.	2259.8
#3	2605.8	8065.6	44856.	2255.2

Zoom In
Zoom Out

Sample Name: CCB Acquired: 4/1/2015 8:53:10 Type: QC
Method: 60102007_041712(v209) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0001	-.0079	-.0006	.0007	.0005	.0252	.0001	.0001	.0004
Stddev	.0004	.0064	.0004	.0002	.0001	.0065	.0001	.0001	.0000
%RSD	680.2	81.35	67.72	23.41	31.94	26.01	68.90	81.15	12.67
#1	.0005	-.0023	-.0002	.0005	.0006	.0314	.0002	.0002	.0003
#2	-.0001	-.0064	-.0010	.0009	.0005	.0258	.0001	.0001	.0004
#3	-.0002	-.0149	-.0007	.0007	.0003	.0183	.0000	.0000	.0004
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0003	.0172	.1143	.0040	.0002	F.0011	.0440	.0002	.0002
Stddev	.0001	.0057	.0228	.0259	.0001	.0003	.0056	.0002	.0002
%RSD	35.21	33.06	19.95	643.6	28.54	28.73	12.61	102.1	91.89
#1	.0004	.0216	.0957	.0308	.0003	.0014	.0455	.0003	.0000
#2	.0004	.0193	.1074	-.0207	.0002	.0010	.0487	.0001	.0004
#3	.0002	.0108	.1397	.0020	.0002	.0008	.0379	.0000	.0004
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit						.0010			
Low Limit						-.0010			

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0006	-.0012	.0016	.0000	.0005	.0006	-.0003	.0002	.0000
Stddev	.0008	.0020	.0004	.0001	.0001	.0001	.0007	.0003	.000
%RSD	138.6	165.9	23.88	207.6	31.05	21.63	197.2	186.7	386.5
#1	.0011	-.0034	.0012	.0001	.0006	.0007	-.0010	-.0001	.0000
#2	.0009	.0000	.0018	.0000	.0004	.0007	-.0004	.0001	.0000
#3	-.0003	-.0001	.0019	.0000	.0004	.0005	.0003	.0005	-.0001
Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Zoom In
Zoom Out

Sample Name: CCB Acquired: 4/1/2015 8:53:10 Type: QC
Method: 60102007_041712(v209) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3098.6	8425.0	46833.	2274.6
Stddev	2.9	8.4	334.	9.6
%RSD	.09224	.09938	.71240	.42156
#1	3098.8	8434.0	47136.	2279.0
#2	3095.7	8417.5	46887.	2281.3
#3	3101.4	8423.3	46475.	2263.7

Zoom In
Zoom Out

Sample Name: FA23189-1 Acquired: 4/1/2015 8:57:22 Type: Unk
Method: 60102007_041712(v209) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)
Avg	-.0011	59.31	.0351	1.062	.0020	F2785.	-.0017	.0193	.0459
Stddev	.0005	.07	.0004	.003	.0002	18.	.0000	.0001	.0003
%RSD	43.87	.1242	1.170	.2556	8.394	.6596	1.463	.4989	.6859
#1	-.0012	59.29	.0346	1.063	.0022	2787.	-.0017	.0194	.0456
#2	-.0015	59.26	.0351	1.058	.0018	2765.	-.0017	.0192	.0458
#3	-.0006	59.40	.0354	1.063	.0020	2802.	-.0018	.0194	.0462

Elem	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
IS Ref	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)
Avg	.0434	47.44	22.79	50.60	.8346	.0062	63.95	.0450	.3409
Stddev	.0002	.12	.06	.15	.0002	.0000	.10	.0003	.0007
%RSD	.5187	.2482	.2630	.2943	.0213	.3685	.1560	.6974	.2118
#1	.0432	47.41	22.83	50.52	.8345	.0062	64.05	.0447	.3404
#2	.0436	47.34	22.72	50.51	.8344	.0063	63.85	.0449	.3417
#3	.0435	47.57	22.82	50.77	.8348	.0062	63.95	.0453	.3405

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	.0050	-.0087	2.943	.0196	F44.29	1.287	-.0085	.1458	.1221
Stddev	.0012	.0011	.005	.0002	.67	.001	.0004	.0008	.0001
%RSD	24.98	12.12	.1620	1.069	1.520	.1120	5.153	.5768	.0902
#1	.0060	-.0076	2.938	.0194	43.82	1.287	-.0080	.1462	.1222
#2	.0036	-.0089	2.945	.0198	43.99	1.289	-.0089	.1463	.1221
#3	.0054	-.0097	2.947	.0195	45.06	1.286	-.0085	.1448	.1220

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	1929.4	6876.0	37833.	2169.8
Stddev	6.4	9.5	150.	13.6
%RSD	.33019	.13888	.39637	.62762
#1	1929.5	6879.9	37660.	2171.3
#2	1922.9	6865.1	37903.	2182.6
#3	1935.6	6882.9	37934.	2155.5

Zoom In
Zoom Out

Sample Name: FA23189-3 Acquired: 4/1/2015 9:01:38 Type: Unk
Method: 60102007_041712(v209) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)
Avg	-.0008	69.32	.0271	.5686	.0023	F2686.	-.0018	.0190	.0536
Stddev	.0004	.22	.0003	.0009	.0002	17.	.0000	.0001	.0005
%RSD	44.37	.3155	.9245	.1552	8.180	.6319	2.335	.4929	.9055
#1	-.0004	69.20	.0271	.5694	.0023	2692.	-.0018	.0190	.0533
#2	-.0010	69.57	.0269	.5686	.0025	2700.	-.0018	.0190	.0541
#3	-.0011	69.18	.0274	.5676	.0021	2667.	-.0017	.0191	.0533

Elem	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
IS Ref	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)
Avg	.0616	54.82	23.80	89.93	1.398	.0071	43.53	.0468	.6778
Stddev	.0007	.10	.05	.28	.008	.0002	.11	.0003	.0023
%RSD	1.144	.1769	.2118	.3170	.6027	2.930	.2434	.7308	.3364
#1	.0608	54.79	23.78	90.00	1.391	.0069	43.53	.0464	.6771
#2	.0622	54.93	23.85	90.17	1.407	.0073	43.64	.0469	.6759
#3	.0617	54.75	23.75	89.61	1.395	.0070	43.43	.0471	.6803

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	.0074	-.0039	2.809	.0183	F19.61	1.441	-.0053	.1193	.1693
Stddev	.0010	.0008	.005	.0005	.31	.007	.0006	.0004	.0005
%RSD	13.48	19.44	.1929	2.744	1.568	.4901	11.10	.3694	.2799
#1	.0067	-.0035	2.803	.0188	19.77	1.434	-.0059	.1188	.1689
#2	.0085	-.0048	2.813	.0184	19.80	1.449	-.0049	.1196	.1694
#3	.0069	-.0034	2.812	.0178	19.26	1.441	-.0050	.1195	.1698

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	1939.8	6939.2	38453.	2182.5
Stddev	5.4	12.7	198.	19.5
%RSD	.27634	.18342	.51443	.89526
#1	1945.7	6951.9	38605.	2179.0
#2	1938.5	6939.3	38229.	2164.9
#3	1935.3	6926.5	38525.	2203.5

Zoom In
Zoom Out

Sample Name: FA23189-5 Acquired: 4/1/2015 9:05:54 Type: Unk
Method: 60102007_041712(v209) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)
Avg	-.0007	93.18	.0511	2.390	.0034	F3002.	-.0011	.0329	.0956
Stddev	.0011	.18	.0004	.008	.0001	23.	.0001	.0001	.0006
%RSD	152.8	.1929	.8546	.3311	2.972	.7590	9.304	.3130	.5899
#1	-.0016	93.17	.0516	2.387	.0035	3001.	-.0012	.0328	.0949
#2	-.0010	93.01	.0508	2.384	.0035	3026.	-.0010	.0328	.0957
#3	.0005	93.37	.0508	2.399	.0033	2980.	-.0010	.0330	.0960

Elem	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
IS Ref	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)
Avg	.1046	76.54	37.25	47.50	1.102	.0053	13.85	.0775	.0416
Stddev	.0003	.03	.04	.16	.004	.0001	.01	.0003	.0001
%RSD	.2727	.0412	.1076	.3284	.3283	2.541	.0533	.3668	.3026
#1	.1042	76.55	37.26	47.57	1.101	.0054	13.85	.0773	.0415
#2	.1048	76.50	37.20	47.32	1.106	.0054	13.84	.0779	.0417
#3	.1047	76.56	37.28	47.61	1.098	.0051	13.85	.0775	.0416

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	.0024	.0016	3.590	.0186	F12.74	1.517	-.0072	.1977	.2269
Stddev	.0013	.0008	.003	.0003	.11	.004	.0002	.0004	.0004
%RSD	52.68	51.21	.0712	1.483	.8640	.2991	3.183	.2080	.1801
#1	.0022	.0017	3.589	.0189	12.66	1.515	-.0073	.1975	.2272
#2	.0013	.0007	3.589	.0185	12.87	1.522	-.0073	.1976	.2264
#3	.0038	.0024	3.593	.0184	12.70	1.513	-.0069	.1982	.2270

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	1913.0	7004.1	38855.	2239.9
Stddev	2.7	10.8	124.	10.2
%RSD	.14047	.15435	.31907	.45725
#1	1911.7	7001.6	38998.	2234.4
#2	1916.1	7016.0	38784.	2233.7
#3	1911.2	6994.8	38783.	2251.7

Zoom In
Zoom Out

Sample Name: FA23189-7 Acquired: 4/1/2015 9:10:09 Type: Unk
Method: 60102007_041712(v209) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)
Avg	.0009	212.0	.0739	1.602	.0086	F2280.	.0012	.0588	.1843
Stddev	.0003	.3	.0006	.001	.0002	15.	.0000	.0002	.0001
%RSD	30.80	.1292	.7915	.0368	1.821	.6746	3.221	.3242	.0801
#1	.0008	212.2	.0745	1.602	.0088	2289.	.0012	.0590	.1842
#2	.0012	211.7	.0734	1.601	.0085	2288.	.0012	.0589	.1842
#3	.0007	212.0	.0739	1.603	.0086	2262.	.0013	.0586	.1844

Elem	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
IS Ref	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)
Avg	.1971	164.5	79.07	101.2	2.389	.0123	F90.90	.1599	.1302
Stddev	.0005	.4	.22	.4	.004	.0002	.12	.0004	.0009
%RSD	.2350	.2134	.2840	.3522	.1684	1.431	.1308	.2613	.6723
#1	.1967	164.6	79.33	101.3	2.393	.0125	91.01	.1596	.1301
#2	.1971	164.1	78.95	100.8	2.385	.0122	90.91	.1603	.1311
#3	.1977	164.8	78.94	101.5	2.390	.0123	90.77	.1597	.1293

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	-.0002	.0030	4.328	.0196	F8.631	2.586	-.0049	.3601	.4528
Stddev	.0015	.0013	.004	.0003	.071	.003	.0009	.0007	.0007
%RSD	822.7	43.49	.0951	1.749	.8207	.1265	17.52	.1806	.1567
#1	.0015	.0016	4.325	.0196	8.591	2.590	-.0051	.3606	.4527
#2	-.0007	.0031	4.333	.0200	8.589	2.583	-.0039	.3594	.4535
#3	-.0013	.0042	4.326	.0193	8.713	2.585	-.0056	.3602	.4521

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	1891.6	8339.2	45144.	2559.8
Stddev	2.9	11.1	48.	2.7
%RSD	.15518	.13292	.10570	.10431
#1	1888.7	8346.8	45091.	2559.0
#2	1891.5	8326.5	45159.	2562.7
#3	1894.6	8344.3	45183.	2557.5

Zoom In Zoom Out

Sample Name: FA23189-9 Acquired: 4/1/2015 9:14:32 Type: Unk
Method: 60102007_041712(v209) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)
Avg	.0001	109.6	.0468	1.213	.0041	F2486.	-.0008	.0341	.0932
Stddev	.0001	.4	.0006	.004	.0001	14.	.0001	.0001	.0003
%RSD	254.3	.4066	1.383	.3564	2.345	.5759	8.200	.2000	.3689
#1	-.0001	109.4	.0465	1.211	.0040	2483.	-.0009	.0340	.0928
#2	.0002	110.1	.0475	1.218	.0041	2501.	-.0009	.0341	.0935
#3	.0000	109.3	.0463	1.210	.0041	2472.	-.0008	.0341	.0932

Elem	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
IS Ref	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)
Avg	.1065	87.96	41.93	93.52	1.614	.0116	F112.5	.0854	.0800
Stddev	.0000	.43	.15	.22	.007	.0002	.6	.0001	.0001
%RSD	.0200	.4917	.3678	.2320	.4237	1.293	.5591	.0732	.1836
#1	.1065	87.84	41.96	93.30	1.606	.0115	112.5	.0854	.0798
#2	.1065	88.44	42.07	93.73	1.619	.0117	113.1	.0854	.0801
#3	.1065	87.60	41.76	93.53	1.616	.0117	111.8	.0855	.0800

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	.0029	.0005	3.786	.0184	F11.23	1.951	-.0044	.2259	.2273
Stddev	.0011	.0018	.002	.0005	.05	.007	.0010	.0006	.0003
%RSD	36.35	364.5	.0623	2.477	.4711	.3525	22.30	.2447	.1274
#1	.0019	-.0008	3.784	.0180	11.28	1.943	-.0039	.2253	.2271
#2	.0041	.0026	3.785	.0189	11.18	1.956	-.0056	.2259	.2274
#3	.0028	-.0002	3.789	.0183	11.24	1.953	-.0038	.2264	.2276

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	1921.8	7169.6	39432.	2205.4
Stddev	5.4	8.1	189.	14.8
%RSD	.28017	.11317	.47932	.67054
#1	1922.6	7177.3	39650.	2193.5
#2	1916.0	7161.1	39327.	2200.7
#3	1926.7	7170.2	39320.	2221.9

Zoom In Zoom Out

Sample Name: FA23189-11 Acquired: 4/1/2015 9:18:47 Type: Unk
Method: 60102007_041712(v209) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)
Avg	-.0007	116.9	.0413	1.652	.0039	F2399.	-.0009	.0331	.0951
Stddev	.0004	.3	.0006	.008	.0001	15.	.0001	.0000	.0003
%RSD	55.46	.2854	1.336	.5099	3.794	.6389	6.597	.1432	.3333
#1	-.0012	116.7	.0415	1.645	.0040	2385.	-.0009	.0331	.0949
#2	-.0007	116.7	.0406	1.650	.0037	2415.	-.0009	.0331	.0950
#3	-.0004	117.3	.0416	1.661	.0039	2398.	-.0010	.0331	.0955

Elem	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
IS Ref	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)
Avg	.0935	90.68	48.09	118.6	1.639	.0184	F81.86	.0835	.0764
Stddev	.0003	.18	.19	.6	.006	.0000	.17	.0002	.0007
%RSD	.2879	.1999	.4000	.5429	.3466	.0698	.2099	.2077	.9429
#1	.0933	90.59	47.89	118.3	1.635	.0184	81.75	.0836	.0758
#2	.0938	90.57	48.12	118.1	1.635	.0184	81.77	.0835	.0762
#3	.0933	90.89	48.27	119.3	1.645	.0184	82.06	.0833	.0772

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	.0023	-.0047	3.674	.0187	F56.61	2.304	-.0046	.2213	.2357
Stddev	.0011	.0002	.004	.0003	.71	.008	.0010	.0004	.0004
%RSD	48.59	5.093	.1135	1.826	1.262	.3641	21.45	.1612	.1492
#1	.0024	-.0047	3.678	.0185	57.28	2.300	-.0037	.2209	.2357
#2	.0033	-.0049	3.671	.0185	56.69	2.299	-.0057	.2216	.2360
#3	.0011	-.0044	3.671	.0191	55.86	2.314	-.0044	.2215	.2353

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	1937.5	7322.6	40358.	2261.0
Stddev	.5	2.9	28.	9.3
%RSD	.02757	.03922	.06907	.41134
#1	1937.8	7325.7	40370.	2250.8
#2	1937.9	7322.0	40379.	2263.4
#3	1936.9	7320.1	40327.	2268.9

Zoom In Zoom Out

Sample Name: FA23189-13 Acquired: 4/1/2015 9:23:04 Type: Unk
Method: 60102007_041712(v209) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)
Avg	-.0008	76.31	.0239	.7717	.0023	F2754.	-.0017	.0212	.0554
Stddev	.0004	.38	.0008	.0034	.0001	20.	.0001	.0001	.0001
%RSD	54.70	.5029	3.393	.4369	4.229	.7403	4.276	.2566	.1243
#1	-.0004	76.72	.0232	.7751	.0022	2769.	-.0017	.0212	.0553
#2	-.0007	76.26	.0237	.7716	.0023	2731.	-.0017	.0211	.0554
#3	-.0013	75.95	.0248	.7683	.0024	2762.	-.0016	.0212	.0554

Elem	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
IS Ref	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)
Avg	.0658	55.69	28.49	138.5	1.269	.0089	F80.33	.0497	.1155
Stddev	.0004	.23	.11	.8	.003	.0002	.42	.0003	.0014
%RSD	.6301	.4203	.3973	.6115	.2213	1.729	.5279	.5099	1.225
#1	.0662	55.91	28.61	139.4	1.266	.0090	80.77	.0495	.1141
#2	.0658	55.72	28.48	138.0	1.271	.0090	80.28	.0500	.1169
#3	.0653	55.45	28.38	137.9	1.271	.0087	79.93	.0498	.1155

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	.0023	-.0016	2.644	.0180	F25.79	1.385	-.0079	.1195	.1631
Stddev	.0008	.0026	.003	.0004	.61	.002	.0019	.0003	.0003
%RSD	34.88	164.6	.1013	2.044	2.381	.1480	24.44	.2552	.1795
#1	.0029	.0014	2.643	.0176	26.50	1.383	-.0076	.1198	.1632
#2	.0026	-.0034	2.641	.0183	25.40	1.386	-.0061	.1195	.1634
#3	.0014	-.0028	2.646	.0181	25.47	1.387	-.0099	.1192	.1628

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	1931.6	6873.9	37887.	2136.1
Stddev	1.7	6.9	229.	14.2
%RSD	.08904	.09977	.60515	.66592
#1	1932.0	6880.4	38109.	2120.0
#2	1929.7	6866.8	37651.	2146.7
#3	1933.1	6874.6	37902.	2141.8

Zoom In Zoom Out

Sample Name: FA23189-14 Acquired: 4/1/2015 9:27:22 Type: Unk
Method: 60102007_041712(v209) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)
Avg	-.0016	52.95	.0221	.6754	.0016	F3017.	-.0021	.0186	.0382
Stddev	.0008	.02	.0001	.0010	.0001	21.	.0001	.0001	.0002
%RSD	51.89	.0451	.5020	.1442	5.758	.7009	2.430	.3079	.4060
#1	-.0007	52.94	.0221	.6746	.0017	2992.	-.0021	.0186	.0381
#2	-.0023	52.98	.0222	.6765	.0015	3026.	-.0022	.0186	.0383
#3	-.0017	52.94	.0220	.6751	.0016	3031.	-.0021	.0185	.0380

Elem	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
IS Ref	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)
Avg	.0592	40.87	23.48	82.48	.9106	.0087	F96.76	.0417	.0229
Stddev	.0006	.06	.03	.14	.0032	.0000	.09	.0001	.0005
%RSD	1.004	.1480	.1144	.1662	.3484	.5734	.0945	.3203	2.035
#1	.0588	40.85	23.48	82.53	.9087	.0087	96.80	.0416	.0225
#2	.0590	40.82	23.46	82.58	.9089	.0087	96.66	.0418	.0229
#3	.0599	40.93	23.51	82.32	.9143	.0086	96.83	.0418	.0234

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	.0037	-.0052	2.797	.0170	F25.60	1.081	-.0086	.1001	.1060
Stddev	.0012	.0018	.006	.0007	.13	.003	.0008	.0006	.0003
%RSD	33.44	34.17	.2119	4.280	.4960	.3157	8.996	.6199	.2734
#1	.0046	-.0068	2.804	.0178	25.72	1.079	-.0082	.0996	.1064
#2	.0043	-.0033	2.793	.0163	25.47	1.080	-.0081	.0998	.1058
#3	.0023	-.0056	2.795	.0170	25.62	1.085	-.0095	.1008	.1060

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	1949.8	6800.8	37667.	2113.6
Stddev	4.0	14.9	71.	8.5
%RSD	.20541	.21891	.18732	.40030
#1	1945.8	6784.0	37748.	2116.3
#2	1949.9	6812.3	37620.	2120.4
#3	1953.8	6806.1	37631.	2104.2

Zoom In Zoom Out

Sample Name: FA23189-16 Acquired: 4/1/2015 9:31:39 Type: Unk
Method: 60102007_041712(v209) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)
Avg	-.0009	78.72	.0310	.6035	.0023	F2928.	-.0015	.0238	.0593
Stddev	.0001	.30	.0017	.0024	.0001	11.	.0001	.0001	.0003
%RSD	14.36	.3764	5.567	.3908	6.441	.3823	3.840	.3225	.4951
#1	-.0008	79.04	.0326	.6054	.0025	2938.	-.0016	.0239	.0590
#2	-.0010	78.69	.0292	.6043	.0022	2916.	-.0015	.0237	.0596
#3	-.0009	78.45	.0312	.6009	.0023	2928.	-.0015	.0238	.0593

Elem	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
IS Ref	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)
Avg	.0678	58.84	34.94	118.9	1.251	.0102	F122.5	.0534	.0702
Stddev	.0001	.30	.18	.8	.001	.0001	.8	.0001	.0016
%RSD	.1034	.5135	.5022	.6981	.0783	.9901	.6189	.1729	2.292
#1	.0678	59.18	35.10	119.9	1.251	.0103	123.4	.0534	.0683
#2	.0677	58.71	34.98	118.5	1.249	.0103	122.4	.0533	.0712
#3	.0677	58.62	34.75	118.3	1.251	.0101	121.9	.0535	.0711

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	.0056	-.0035	3.176	.0178	F21.88	1.605	-.0079	.1664	.1672
Stddev	.0008	.0019	.005	.0002	.08	.001	.0003	.0004	.0002
%RSD	14.03	53.04	.1711	1.293	.3538	.0772	3.938	.2647	.1369
#1	.0059	-.0050	3.177	.0180	21.96	1.607	-.0082	.1661	.1675
#2	.0061	-.0041	3.181	.0175	21.87	1.604	-.0076	.1669	.1672
#3	.0047	-.0014	3.171	.0179	21.81	1.605	-.0081	.1662	.1670

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	1928.3	6945.9	38843.	2182.2
Stddev	4.2	10.7	148.	17.6
%RSD	.21871	.15407	.38064	.80496
#1	1928.6	6935.8	39014.	2162.0
#2	1924.0	6944.8	38768.	2190.0
#3	1932.4	6957.1	38748.	2194.5

Zoom In Zoom Out

Sample Name: FA23189-18 Acquired: 4/1/2015 9:35:55 Type: Unk
Method: 60102007_041712(v209) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)
Avg	-.0011	59.90	.0212	.6558	.0017	F2881.	-.0017	.0178	.0431
Stddev	.0003	.16	.0008	.0007	.0001	37.	.0001	.0002	.0002
%RSD	23.28	.2726	3.966	.1024	2.896	1.270	6.092	.9043	.5361
#1	-.0012	60.06	.0222	.6563	.0017	2898.	-.0018	.0178	.0432
#2	-.0008	59.73	.0207	.6561	.0018	2839.	-.0016	.0180	.0428
#3	-.0013	59.92	.0208	.6550	.0017	2906.	-.0017	.0177	.0432

Elem	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
IS Ref	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)
Avg	.0518	44.10	26.96	71.36	.9288	.0077	74.60	.0437	.0460
Stddev	.0001	.18	.13	.38	.0040	.0001	.32	.0002	.0003
%RSD	.1399	.3976	.4710	.5308	.4334	1.878	.4270	.4060	.6821
#1	.0518	44.26	27.08	71.70	.9245	.0079	74.89	.0439	.0457
#2	.0517	43.91	26.83	70.95	.9294	.0076	74.26	.0436	.0461
#3	.0518	44.14	26.97	71.43	.9325	.0077	74.66	.0436	.0463

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	.0036	-.0056	3.134	.0178	F32.02	1.152	-.0089	.1110	.1275
Stddev	.0006	.0017	.004	.0003	.48	.005	.0012	.0003	.0005
%RSD	16.80	30.47	.1351	1.713	1.484	.4142	13.20	.2290	.3933
#1	.0037	-.0057	3.131	.0174	32.57	1.147	-.0083	.1109	.1273
#2	.0041	-.0072	3.132	.0180	31.76	1.151	-.0081	.1107	.1281
#3	.0030	-.0038	3.139	.0179	31.74	1.156	-.0102	.1112	.1271

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	1954.5	6840.4	38697.	2157.2
Stddev	3.6	9.6	53.	28.9
%RSD	.18363	.14003	.13648	1.3403
#1	1958.0	6845.6	38757.	2128.4
#2	1954.6	6829.3	38680.	2186.2
#3	1950.8	6846.2	38655.	2157.1

Zoom In Zoom Out

Sample Name: CCV Acquired: 4/1/2015 9:40:11 Type: QC
Method: 60102007_041712(v209) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2615	40.55	2.096	2.176	1.947	40.52	2.016	2.037	2.003
Stddev	.0009	.16	.002	.012	.011	.12	.003	.002	.006
%RSD	.3520	.4059	.0984	.5387	.5627	.2878	.1293	.0938	.2865
#1	.2610	40.46	2.094	2.177	1.942	40.52	2.014	2.036	1.996
#2	.2626	40.46	2.098	2.164	1.939	40.40	2.014	2.036	2.007
#3	.2610	40.74	2.095	2.188	1.959	40.63	2.019	2.039	2.005
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value									
Range									

Elem	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.136	41.40	F46.40	40.26	2.042	2.042	42.71	2.069	1.950
Stddev	.001	.21	.19	.36	.025	.006	.15	.001	.001
%RSD	.0632	.4968	.4005	.9022	1.215	.2969	.3467	.0459	.0389
#1	2.135	41.27	46.37	40.12	2.013	2.036	42.71	2.068	1.950
#2	2.135	41.29	46.22	39.99	2.055	2.044	42.56	2.069	1.950
#3	2.138	41.64	46.59	40.67	2.057	2.048	42.86	2.070	1.951
Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value			40.00						
Range			10.00%						

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.098	2.115	2.157	1.987	2.113	2.053	2.017	1.991	1.990
Stddev	.002	.002	.002	.003	.010	.006	.003	.004	.003
%RSD	.1028	.1100	.0751	.1251	.4626	.3001	.1348	.2042	.1719
#1	2.100	2.115	2.157	1.988	2.109	2.046	2.020	1.986	1.988
#2	2.096	2.116	2.159	1.984	2.106	2.053	2.016	1.992	1.988
#3	2.098	2.112	2.156	1.989	2.124	2.059	2.014	1.994	1.994
Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value									
Range									

Zoom In Zoom Out

Sample Name: CCV Acquired: 4/1/2015 9:40:11 Type: QC
Method: 60102007_041712(v209) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2636.8	8117.6	45683.	2257.9
Stddev	4.8	17.6	363.	23.7
%RSD	.18345	.21684	.79461	1.0475
#1	2641.2	8131.9	46097.	2249.7
#2	2637.6	8122.9	45423.	2284.6
#3	2631.6	8097.9	45527.	2239.5

Zoom In Zoom Out

Sample Name: CCB Acquired: 4/1/2015 9:44:15 Type: QC
Method: 60102007_041712(v209) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0001	-.0190	-.0011	.0010	.0003	.0497	.0001	.0000	.0001
Stddev	.0001	.0119	.0005	.0002	.0001	.0101	.0000	.0000	.0001
%RSD	183.7	62.57	42.45	21.18	29.43	20.36	64.54	39.78	131.2
#1	.0001	-.0295	-.0006	.0009	.0004	.0574	.0001	.0001	.0000
#2	-.0002	-.0061	-.0011	.0009	.0003	.0535	.0001	.0000	.0002
#3	-.0001	-.0213	-.0015	.0013	.0002	.0382	.0000	.0000	.0000
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0006	.0153	.1237	.0111	.0001	F.0011	.0120	.0002	.0000
Stddev	.0002	.0036	.0341	.0181	.0000	.0004	.0056	.0001	.0005
%RSD	38.21	23.49	27.56	162.9	10.38	39.12	46.54	45.02	4719.
#1	.0008	.0193	.1103	-.0020	.0001	.0016	.0089	.0002	.0005
#2	.0004	.0124	.1625	.0318	.0002	.0011	.0185	.0002	.0000
#3	.0005	.0141	.0984	.0036	.0001	.0007	.0087	.0001	-.0005
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit						.0010			
Low Limit						-.0010			

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0009	-.0010	.0028	-.0002	.0006	.0005	-.0006	.0000	-.0001
Stddev	.0010	.0002	.0004	.0002	.0001	.0001	.0002	.000	.0000
%RSD	105.4	16.65	12.93	152.4	17.43	30.51	40.35	296.5	30.57
#1	.0017	-.0010	.0024	-.0003	.0007	.0006	-.0008	-.0001	-.0001
#2	.0013	-.0012	.0031	.0001	.0006	.0004	-.0005	.0001	-.0001
#3	-.0002	-.0009	.0029	-.0002	.0005	.0003	-.0004	.0000	-.0002
Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Zoom In Zoom Out

Sample Name: CCB Acquired: 4/1/2015 9:44:15 Type: QC
Method: 60102007_041712(v209) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3156.2	8523.4	47638.	2235.2
Stddev	4.4	12.7	52.	12.8
%RSD	.14085	.14888	.11001	.57051
#1	3157.2	8529.7	47589.	2221.1
#2	3151.3	8508.8	47693.	2238.6
#3	3160.0	8531.8	47632.	2245.9

Zoom In Zoom Out

Sample Name: CCV Acquired: 4/1/2015 10:06:36 Type: QC
Method: 60102007_041712(v209) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2502	40.04	1.945	1.984	1.987	40.27	1.977	1.972	1.993	1.969
Stddev	.0003	.24	.003	.011	.010	.24	.001	.001	.003	.004
%RSD	.1180	.6076	.1637	.5738	.5221	.6054	.0472	.0626	.1415	.2216
#1	.2504	40.32	1.949	1.997	1.999	40.55	1.978	1.973	1.996	1.971
#2	.2503	39.94	1.945	1.978	1.982	40.13	1.976	1.973	1.992	1.972
#3	.2498	39.87	1.942	1.977	1.980	40.12	1.977	1.971	1.990	1.964
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value										
Range										

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	40.72	39.95	40.30	2.018	1.961	40.52	1.980	1.935	1.943	1.946
Stddev	.24	.21	.19	.016	.005	.23	.001	.001	.006	.003
%RSD	.5904	.5329	.4801	.7835	.2642	.5731	.0433	.0511	.2869	.1340
#1	40.99	40.20	40.50	2.036	1.955	40.79	1.980	1.935	1.940	1.946
#2	40.56	39.83	40.27	2.011	1.962	40.37	1.981	1.935	1.950	1.948
#3	40.59	39.83	40.12	2.007	1.965	40.40	1.979	1.937	1.940	1.943
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value										
Range										

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.987	1.981	1.976	2.013	1.955	1.980	1.980
Stddev	.001	.001	.012	.003	.003	.002	.001
%RSD	.0298	.0528	.5931	.1228	.1597	.1108	.0658
#1	1.987	1.980	1.989	2.015	1.956	1.983	1.981
#2	1.988	1.982	1.972	2.010	1.959	1.979	1.979
#3	1.986	1.981	1.967	2.013	1.952	1.978	1.979
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Zoom In Zoom Out

Sample Name: CCV Acquired: 4/1/2015 10:06:36 Type: QC
Method: 60102007_041712(v209) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2546.4	7879.0	43383.	2085.3
Stddev	4.6	12.7	57.	14.3
%RSD	.18100	.16169	.13213	.68499
#1	2550.0	7891.9	43320.	2073.7
#2	2548.0	7878.6	43395.	2101.3
#3	2541.2	7866.5	43433.	2081.0

Zoom In Zoom Out

Sample Name: CCB Acquired: 4/1/2015 10:11:40 Type: QC
Method: 60102007_041712(v209) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000	-.0117	.0000	.0003	.0000	-.0471	.0001	.0001	-.0001
Stddev	.000	.0099	.0004	.0003	.0001	.0045	.0000	.0000	.0002
%RSD	1367.	84.64	1178.	86.75	197.2	9.496	21.92	34.65	188.2
#1	-.0002	-.0069	.0002	.0006	.0000	-.0440	.0001	.0001	-.0004
#2	.0001	-.0052	-.0004	.0001	.0002	-.0522	.0001	.0001	.0001
#3	.0001	-.0231	.0003	.0002	.0000	-.0450	.0001	.0002	-.0001
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000	.0102	.0042	-.0005	.0001	F.0012	-.0684	.0000	-.0005
Stddev	.000	.0015	.0168	.0364	.0001	.0003	.0067	.000	.0001
%RSD	1486.	14.22	399.5	6942.	109.5	28.44	9.758	267.5	11.44
#1	.0000	.0105	-.0113	-.0295	.0000	.0016	-.0607	-.0001	-.0005
#2	.0002	.0115	.0020	-.0124	.0001	.0011	-.0722	-.0001	-.0006
#3	-.0002	.0087	.0220	.0403	.0001	.0009	-.0723	.0001	-.0006
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit						.0010			
Low Limit						-.0010			

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0015	-.0002	.0002	.0004	-.0001	.0005	-.0001	-.0001	.0001
Stddev	.0004	.0011	.0002	.0003	.0001	.0001	.0004	.0002	.0000
%RSD	26.56	498.4	101.2	79.43	33.46	18.40	519.9	254.6	43.03
#1	.0019	.0007	.0002	.0004	-.0002	.0007	.0000	.0001	.0001
#2	.0011	-.0014	.0000	.0007	-.0001	.0005	-.0006	-.0004	.0000
#3	.0014	.0001	.0005	.0001	-.0002	.0005	.0003	.0000	.0001
Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Zoom In Zoom Out

Sample Name: CCB Acquired: 4/1/2015 10:11:40 Type: QC
Method: 60102007_041712(v209) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3086.7	8354.4	46374.	2119.2
Stddev	4.4	4.8	223.	9.3
%RSD	.14101	.05778	.48094	.43775
#1	3088.7	8359.7	46166.	2129.0
#2	3081.7	8350.2	46610.	2118.3
#3	3089.6	8353.2	46346.	2110.5

Zoom In Zoom Out

Sample Name: FA23189-22 Acquired: 4/1/2015 10:15:05 Type: Unk
Method: 60102007_041712(v209) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)
Avg	-.0008	102.0	.0383	1.238	.0037	F2644.	-.0006	.0314	.0884
Stddev	.0000	.4	.0006	.005	.0001	19.	.0001	.0000	.0005
%RSD	5.059	.3662	1.680	.3932	1.812	.7100	18.70	.1381	.6062
#1	-.0008	101.6	.0387	1.233	.0036	2634.	-.0005	.0314	.0878
#2	-.0008	102.1	.0386	1.240	.0036	2632.	-.0006	.0314	.0886
#3	-.0007	102.3	.0375	1.242	.0038	2665.	-.0008	.0315	.0888

Elem	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
IS Ref	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)
Avg	.0777	80.63	33.49	68.37	1.445	.0052	61.33	.0774	.0555
Stddev	.0005	.40	.19	.37	.004	.0003	.17	.0003	.0002
%RSD	.6546	.4949	.5643	.5444	.3101	6.016	.2737	.3283	.3989
#1	.0771	80.23	33.28	67.98	1.440	.0053	61.15	.0777	.0557
#2	.0781	80.61	33.53	68.41	1.448	.0054	61.36	.0773	.0553
#3	.0778	81.03	33.65	68.72	1.448	.0048	61.48	.0773	.0556

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	.0038	-.0025	3.387	.0190	F14.94	1.807	-.0067	.1942	.2154
Stddev	.0002	.0011	.003	.0004	.25	.007	.0012	.0005	.0003
%RSD	4.555	42.53	.0820	1.849	1.683	.3948	17.79	.2651	.1372
#1	.0038	-.0015	3.384	.0186	14.76	1.799	-.0053	.1936	.2153
#2	.0037	-.0025	3.387	.0193	14.83	1.809	-.0074	.1944	.2152
#3	.0040	-.0036	3.389	.0191	15.23	1.812	-.0073	.1945	.2158

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	1921.3	7171.9	39871.	2224.8
Stddev	1.0	9.6	131.	10.4
%RSD	.05205	.13346	.32864	.46946
#1	1920.9	7167.6	40018.	2235.7
#2	1920.5	7182.9	39767.	2223.8
#3	1922.4	7165.2	39827.	2214.9

Zoom In Zoom Out

Sample Name: FA23189-24 Acquired: 4/1/2015 10:19:21 Type: Unk
Method: 60102007_041712(v209) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)
Avg	.0007	194.1	.0544	1.501	.0080	F2032.	.0021	.0599	.1695
Stddev	.0001	.6	.0014	.003	.0001	24.	.0001	.0001	.0004
%RSD	12.02	.3131	2.605	.2135	.9776	1.170	4.907	.1297	.2600
#1	.0008	194.2	.0552	1.499	.0081	2009.	.0021	.0598	.1695
#2	.0007	194.7	.0551	1.505	.0079	2056.	.0020	.0600	.1691
#3	.0007	193.5	.0527	1.499	.0080	2031.	.0022	.0600	.1700

Elem	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
IS Ref	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)
Avg	.1711	160.4	62.41	140.1	3.561	.0060	56.55	.1467	.1534
Stddev	.0006	.5	.21	.6	.024	.0001	.17	.0003	.0008
%RSD	.3537	.3056	.3310	.4172	.6652	1.007	.2953	.2251	.5083
#1	.1715	160.2	62.52	140.0	3.570	.0061	56.60	.1464	.1541
#2	.1714	160.9	62.54	140.8	3.535	.0060	56.69	.1466	.1526
#3	.1704	160.0	62.17	139.6	3.580	.0061	56.36	.1471	.1536

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	.0012	.0001	3.529	.0192	F7.765	2.635	-.0014	.2891	.4634
Stddev	.0011	.0009	.002	.0004	.169	.006	.0022	.0007	.0011
%RSD	91.81	1198.	.0649	1.935	2.176	.2386	150.5	.2375	.2336
#1	.0008	.0007	3.527	.0188	7.621	2.639	-.0039	.2896	.4625
#2	.0024	-.0010	3.530	.0196	7.951	2.628	-.0003	.2883	.4630
#3	.0003	.0006	3.531	.0193	7.723	2.638	-.0001	.2894	.4646

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	1925.3	8604.1	46559.	2581.9
Stddev	7.0	27.0	251.	26.7
%RSD	.36355	.31397	.53844	1.0341
#1	1929.6	8633.3	46463.	2599.3
#2	1929.1	8599.1	46843.	2551.1
#3	1917.2	8580.0	46370.	2595.2

Zoom In
Zoom Out

Sample Name: FA23189-25 Acquired: 4/1/2015 10:23:45 Type: Unk
Method: 60102007_041712(v209) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)
Avg	.0010	210.9	.0488	1.438	.0090	F1072.	.0029	.0629	.1866
Stddev	.0003	1.3	.0003	.007	.0002	23.	.0001	.0001	.0005
%RSD	31.69	.6183	.6226	.4569	1.741	2.157	3.255	.1459	.2455
#1	.0009	212.0	.0491	1.441	.0090	1072.	.0029	.0630	.1862
#2	.0008	209.5	.0487	1.431	.0091	1049.	.0030	.0629	.1871
#3	.0013	211.1	.0485	1.443	.0088	1095.	.0028	.0628	.1864

Elem	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
IS Ref	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)
Avg	.1830	174.6	64.08	181.9	F4.312	.0068	41.59	.1555	.1966
Stddev	.0008	.9	.40	.9	.025	.0003	.24	.0002	.0012
%RSD	.4311	.5154	.6173	.5090	.5779	4.082	.5674	.1256	.6097
#1	.1833	175.2	64.42	182.5	4.304	.0069	41.77	.1553	.1963
#2	.1836	173.5	63.65	180.8	4.340	.0065	41.32	.1557	.1979
#3	.1821	175.0	64.18	182.3	4.293	.0070	41.67	.1554	.1956

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	-.0011	.0016	3.619	.0205	3.851	3.021	.0013	.2923	.5293
Stddev	.0017	.0005	.002	.0002	.023	.027	.0010	.0003	.0006
%RSD	152.2	30.93	.0660	.8015	.5948	.9061	79.65	.1159	.1138
#1	-.0031	.0013	3.620	.0203	3.869	2.996	.0018	.2919	.5287
#2	-.0003	.0021	3.621	.0205	3.825	3.050	.0001	.2926	.5299
#3	.0000	.0013	3.616	.0207	3.859	3.016	.0020	.2923	.5293

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	2078.5	9621.1	51460.	2756.6
Stddev	1.7	8.3	292.	20.8
%RSD	.08210	.08584	.56708	.75550
#1	2079.6	9626.7	51717.	2749.5
#2	2076.5	9611.6	51143.	2780.1
#3	2079.3	9624.9	51521.	2740.3

Zoom In
Zoom Out

Sample Name: FA23189-27 Acquired: 4/1/2015 10:28:09 Type: Unk
Method: 60102007_041712(v209) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)
Avg	.0006	198.0	.0634	1.685	.0076	F2333.	.0012	.0551	.1703
Stddev	.0003	.4	.0018	.008	.0002	24.	.0001	.0002	.0006
%RSD	49.51	.1922	2.854	.4747	2.321	1.031	9.093	.2783	.3600
#1	.0005	197.8	.0636	1.678	.0078	2307.	.0014	.0549	.1703
#2	.0003	197.8	.0651	1.683	.0074	2354.	.0011	.0551	.1696
#3	.0009	198.4	.0615	1.694	.0076	2337.	.0012	.0552	.1708

Elem	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
IS Ref	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)
Avg	.1669	154.7	69.78	111.1	2.615	.0150	73.50	.1446	.1180
Stddev	.0002	.5	.12	.3	.006	.0002	.14	.0001	.0015
%RSD	.1120	.3445	.1726	.3085	.2374	1.266	.1845	.0830	1.289
#1	.1668	154.5	69.74	110.7	2.621	.0149	73.37	.1444	.1166
#2	.1671	154.3	69.68	111.1	2.613	.0152	73.49	.1447	.1196
#3	.1669	155.3	69.91	111.4	2.609	.0149	73.64	.1446	.1177

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	.0008	.0049	4.748	.0193	F10.06	2.969	-.0012	.3244	.4282
Stddev	.0011	.0007	.001	.0003	.06	.000	.0008	.0006	.0006
%RSD	126.3	14.33	.0295	1.480	.5866	.0150	66.73	.1773	.1516
#1	.0021	.0041	4.747	.0197	10.10	2.970	-.0008	.3250	.4276
#2	.0003	.0054	4.749	.0191	9.992	2.969	-.0022	.3242	.4289
#3	.0002	.0052	4.747	.0193	10.09	2.969	-.0007	.3239	.4282

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	1890.1	8264.1	45136.	2478.7
Stddev	2.2	4.4	54.	19.4
%RSD	.11509	.05309	.12057	.78141
#1	1891.0	8269.1	45131.	2500.4
#2	1891.7	8262.3	45192.	2472.5
#3	1887.6	8260.8	45084.	2463.2

Zoom In
Zoom Out

Sample Name: FA23189-29 Acquired: 4/1/2015 10:32:33 Type: Unk
Method: 60102007_041712(v209) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)
Avg	-.0012	58.03	.0255	.7331	.0017	F2829.	-.0015	.0184	.0449
Stddev	.0002	.05	.0015	.0007	.0000	5.	.0001	.0001	.0004
%RSD	14.27	.0806	5.987	.0938	2.534	.1687	7.461	.6925	.9830
#1	-.0010	57.98	.0265	.7337	.0016	2832.	-.0015	.0183	.0446
#2	-.0012	58.03	.0263	.7333	.0017	2832.	-.0014	.0185	.0448
#3	-.0013	58.07	.0237	.7324	.0017	2824.	-.0016	.0185	.0454

Elem	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
IS Ref	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)
Avg	.0496	45.41	23.13	55.25	.7552	.0089	40.81	.0424	.0177
Stddev	.0002	.09	.06	.09	.0014	.0001	.10	.0004	.0003
%RSD	.4958	.1975	.2409	.1707	.1910	.9261	.2502	.8765	1.613
#1	.0493	45.48	23.16	55.28	.7541	.0090	40.90	.0423	.0179
#2	.0498	45.44	23.17	55.33	.7568	.0089	40.82	.0421	.0178
#3	.0498	45.31	23.07	55.15	.7547	.0089	40.70	.0428	.0174

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	.0042	-.0073	3.254	.0178	F28.43	1.185	-.0064	.1190	.1223
Stddev	.0007	.0017	.004	.0002	.65	.002	.0016	.0002	.0004
%RSD	16.84	23.82	.1125	.8999	2.297	.1557	24.54	.1428	.3572
#1	.0048	-.0092	3.249	.0179	29.15	1.184	-.0046	.1191	.1223
#2	.0044	-.0070	3.255	.0179	28.27	1.187	-.0074	.1191	.1227
#3	.0034	-.0058	3.256	.0176	27.88	1.184	-.0072	.1188	.1219

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	1943.9	6882.2	38535.	2055.9
Stddev	2.7	9.2	41.	18.0
%RSD	.13747	.13404	.10540	.87793
#1	1946.7	6892.3	38575.	2047.7
#2	1941.4	6874.3	38535.	2043.3
#3	1943.6	6879.9	38494.	2076.6

Zoom In
Zoom Out

Sample Name: FA23189-31 Acquired: 4/1/2015 10:36:49 Type: Unk
Method: 60102007_041712(v209) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)
Avg	-.0017	42.66	.0242	.4864	.0012	F3466.	-.0024	.0154
Stddev	.0004	.08	.0010	.0017	.0001	37.	.0000	.0002
%RSD	20.22	.1760	4.070	.3489	12.56	1.076	1.782	1.109
#1	-.0021	42.66	.0237	.4845	.0013	3466.	-.0024	.0154
#2	-.0017	42.74	.0235	.4878	.0011	3504.	-.0025	.0155
#3	-.0014	42.59	.0253	.4868	.0011	3429.	-.0024	.0152

Elem	Cr2677	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)
Avg	.0309	.0427	33.25	18.12	41.92	.5740	.0040	F89.92
Stddev	.0004	.0003	.11	.06	.27	.0017	.0001	.24
%RSD	1.229	.7365	.3330	.3185	.6549	.3021	3.204	.2653
#1	.0304	.0429	33.15	18.09	41.60	.5745	.0041	89.97
#2	.0311	.0424	33.37	18.19	42.07	.5754	.0041	90.13
#3	.0310	.0429	33.23	18.09	42.08	.5721	.0039	89.66

Elem	Ni2316	Pb2203	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)
Avg	.0340	.0094	.0053	-.0063	3.088	.0172	F31.99	.8706
Stddev	.0003	.0016	.0008	.0021	.001	.0005	.31	.0017
%RSD	.9321	16.60	14.21	32.65	.0274	2.625	.9754	.1980
#1	.0336	.0083	.0044	-.0069	3.087	.0168	31.83	.8698
#2	.0342	.0112	.0058	-.0040	3.087	.0173	32.35	.8725
#3	.0341	.0087	.0057	-.0080	3.089	.0177	31.80	.8694

Elem	Tl1908	V_2924	Zn2062
IS Ref	(In2306)	(Y_3600)	(Y_2243)
Avg	F-.0101	.0996	.0853
Stddev	.0009	.0002	.0001
%RSD	9.019	.2278	.1700
#1	-.0106	.0996	.0851
#2	-.0107	.0999	.0854
#3	-.0091	.0994	.0853

Zoom In Zoom Out

Sample Name: FA23189-31 Acquired: 4/1/2015 10:36:49 Type: Unk
Method: 60102007_041712(v209) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	1886.5	6591.7	36960.	2031.4
Stddev	1.9	2.3	130.	8.6
%RSD	.09859	.03552	.35158	.42488
#1	1884.3	6594.3	36920.	2025.1
#2	1887.4	6589.9	36855.	2027.8
#3	1887.7	6590.9	37105.	2041.2

Zoom In Zoom Out

Sample Name: FA23189-33 Acquired: 4/1/2015 10:41:06 Type: Unk
Method: 60102007_041712(v209) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)
Avg	-.0006	87.44	.0291	.8565	.0031	F2565.	-.0009	.0267	.0725
Stddev	.0004	.11	.0008	.0015	.0001	17.	.0000	.0001	.0005
%RSD	59.61	.1202	2.576	.1772	2.750	.6590	1.974	.3844	.6529
#1	-.0006	87.32	.0298	.8551	.0031	2582.	-.0009	.0268	.0720
#2	-.0009	87.51	.0283	.8562	.0030	2564.	-.0009	.0266	.0727
#3	-.0002	87.49	.0293	.8581	.0032	2549.	-.0010	.0267	.0729

Elem	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
IS Ref	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)
Avg	.0744	71.70	31.70	64.96	1.423	.0095	66.13	.0643	.0491
Stddev	.0007	.16	.05	.22	.002	.0001	.04	.0003	.0013
%RSD	.9905	.2274	.1574	.3324	.1611	1.452	.0645	.4620	2.697
#1	.0736	71.54	31.69	64.73	1.424	.0097	66.11	.0645	.0497
#2	.0751	71.86	31.76	65.16	1.421	.0095	66.18	.0643	.0501
#3	.0746	71.71	31.66	64.98	1.425	.0094	66.10	.0639	.0476

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	.0039	.0016	3.608	.0184	F12.80	1.636	-.0050	.1565	.1917
Stddev	.0015	.0024	.001	.0001	.27	.002	.0010	.0009	.0004
%RSD	39.36	148.1	.0332	.8151	2.099	.1037	20.46	.5843	.2139
#1	.0056	.0038	3.609	.0182	12.50	1.635	-.0039	.1555	.1919
#2	.0027	-.0010	3.607	.0185	12.98	1.636	-.0051	.1565	.1920
#3	.0033	.0021	3.609	.0185	12.94	1.638	-.0059	.1574	.1912

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	1964.2	7227.8	40224.	2201.2
Stddev	4.9	15.9	102.	11.8
%RSD	.24898	.21986	.25335	.53392
#1	1958.8	7211.6	40337.	2200.7
#2	1965.4	7228.4	40199.	2189.7
#3	1968.3	7243.4	40138.	2213.2

Zoom In Zoom Out

Sample Name: FA23189-35 Acquired: 4/1/2015 10:45:22 Type: Unk
Method: 60102007_041712(v209) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)
Avg	-.0004	76.07	.0679	1.149	.0020	F2544.	.0012	.0297
Stddev	.0003	.42	.0125	.006	.0004	32.	.0012	.0031
%RSD	81.93	.5524	18.46	.5626	18.58	1.247	98.33	10.47
#1	-.0003	76.40	.0559	1.146	.0023	2579.	.0000	.0265
#2	-.0007	76.21	.0669	1.157	.0021	2534.	.0013	.0299
#3	-.0001	75.59	.0809	1.146	.0016	2518.	.0023	.0327

Elem	Cr2677	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)
Avg	.0606	.0766	54.56	26.33	112.2	.8682	.0261	39.54
Stddev	.0006	.0005	.49	.58	1.7	.0014	.0065	.40
%RSD	.9398	.6143	.8983	2.219	1.514	.1626	24.94	1.005
#1	.0608	.0764	54.98	25.72	113.5	.8694	.0193	39.08
#2	.0600	.0772	54.69	26.36	112.7	.8667	.0267	39.71
#3	.0611	.0763	54.02	26.89	110.3	.8687	.0323	39.82

Elem	Ni2316	Pb2203	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)
Avg	.0635	.0553	F-.0060	.0599	3.718	.0585	F33.97	1.564
Stddev	.0049	.0103	.0022	.0248	.009	.0145	.63	.002
%RSD	7.737	18.56	36.05	41.44	.2323	24.82	1.846	.1156
#1	.0585	.0455	-.0036	.0337	3.727	.0440	34.01	1.564
#2	.0637	.0545	-.0066	.0629	3.710	.0584	34.58	1.562
#3	.0683	.0660	-.0078	.0830	3.716	.0731	33.33	1.566

Elem	Tl1908	V_2924	Zn2062
IS Ref	(In2306)	(Y_3600)	(Y_2243)
Avg	F-.0206	.2889	.1403
Stddev	.0038	.0006	.0006
%RSD	18.37	.1991	.4538
#1	-.0166	.2890	.1399
#2	-.0210	.2883	.1400
#3	-.0241	.2894	.1411

Zoom In Zoom Out

Sample Name: FA23189-35 Acquired: 4/1/2015 10:45:22 Type: Unk
Method: 60102007_041712(v209) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	1792.5	6619.7	36559.	2091.8
Stddev	6.1	15.4	205.	9.7
%RSD	.33840	.23254	.56117	.46291
#1	1795.8	6636.4	36724.	2102.3
#2	1796.2	6616.4	36624.	2083.2
#3	1785.5	6606.2	36329.	2089.9

Zoom In Zoom Out

Sample Name: FA23189-37 Acquired: 4/1/2015 10:49:36 Type: Unk
Method: 60102007_041712(v209) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)
Avg	-.0013	64.50	.0317	.5985	.0019	F2745.	-.0019	.0232	.0507
Stddev	.0001	.12	.0007	.0012	.0001	24.	.0001	.0000	.0003
%RSD	9.741	.1848	2.265	.2025	2.964	.8790	2.912	.1939	.6646
#1	-.0013	64.36	.0314	.5982	.0019	2726.	-.0018	.0233	.0511
#2	-.0011	64.55	.0312	.5974	.0019	2772.	-.0019	.0232	.0504
#3	-.0014	64.58	.0325	.5998	.0020	2738.	-.0019	.0232	.0507

Elem	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
IS Ref	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)
Avg	.0506	49.15	22.28	86.48	.8062	.0078	62.93	.0504	.0217
Stddev	.0006	.07	.04	.09	.0006	.0001	.04	.0002	.0006
%RSD	1.109	.1362	.1906	.1021	.0737	1.799	.0606	.4786	2.739
#1	.0512	49.08	22.25	86.38	.8069	.0080	62.90	.0505	.0222
#2	.0503	49.19	22.26	86.52	.8061	.0077	62.93	.0506	.0211
#3	.0502	49.19	22.33	86.54	.8057	.0078	62.97	.0502	.0219

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	.0033	-.0065	3.343	.0193	F19.89	1.403	-.0065	.1590	.1299
Stddev	.0004	.0029	.007	.0002	.26	.002	.0003	.0001	.0002
%RSD	11.12	44.15	.2175	1.038	1.320	.1417	5.230	.0887	.1585
#1	.0037	-.0056	3.335	.0193	19.67	1.402	-.0063	.1589	.1300
#2	.0030	-.0042	3.345	.0196	20.18	1.405	-.0063	.1589	.1301
#3	.0034	-.0097	3.349	.0192	19.81	1.402	-.0069	.1592	.1297

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	1943.0	6880.0	39313.	2153.5
Stddev	1.5	2.3	105.	12.8
%RSD	.07575	.03303	.26715	.59325
#1	1943.6	6881.8	39240.	2164.5
#2	1944.1	6877.5	39433.	2139.5
#3	1941.3	6880.8	39266.	2156.7

Zoom In Zoom Out

Sample Name: MP28735-MB1 Acquired: 4/1/2015 10:53:54 Type: QC
Method: 60102007_041712(v209) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0006	-.0104	-.0016	.0002	.0000	.2545	.0000	.0000	.0001	-.0002
Stddev	.0005	.0016	.0003	.0003	.000	.0217	.000	.000	.0001	.0000
%RSD	79.40	15.80	17.87	183.3	193.9	8.518	2807.	94.25	84.87	14.31
#1	-.0002	-.0121	-.0017	.0000	.0000	.2377	.0000	-.0001	.0000	-.0002
#2	-.0012	-.0103	-.0019	.0006	-.0001	.2468	.0000	.0000	.0000	-.0003
#3	-.0005	-.0088	-.0013	.0000	.0000	.2790	.0000	.0000	.0001	-.0002
Check ?	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass
High Limit																						
Low Limit																						

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0199	.0220	-.0257	.0000	-.0001	-.0413	-.0001	-.0004	.0009	-.0004
Stddev	.0111	.0096	.0317	.0000	.0001	.0047	.0002	.0004	.0009	.0013
%RSD	55.98	43.79	123.4	231.5	88.65	11.36	147.2	98.65	104.1	322.9
#1	.0306	.0138	-.0229	.0001	.0000	-.0432	.0001	-.0001	.0001	-.0003
#2	.0207	.0195	-.0588	.0000	-.0002	-.0448	-.0003	-.0009	.0006	.0009
#3	.0084	.0326	.0045	.0000	-.0002	-.0360	-.0001	-.0003	.0019	-.0017
Check ?	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass
High Limit																						
Low Limit																						

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0205	.0003	.0015	.0007	-.0009	.0001	.0004
Stddev	.0001	.0001	.0001	.0001	.0008	.0002	.0000
%RSD	.6022	32.35	9.918	9.371	85.73	284.9	7.195
#1	.0205	.0003	.0014	.0007	-.0014	.0003	.0004
#2	.0206	.0004	.0013	.0007	-.0014	.0001	.0004
#3	.0203	.0002	.0016	.0006	.0000	-.0002	.0005
Check ?	None	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass
High Limit													
Low Limit													

Zoom In Zoom Out

Sample Name: MP28735-MB1 Acquired: 4/1/2015 10:53:54 Type: QC
Method: 60102007_041712(v209) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3142.6	8517.4	48891.	2213.4
Stddev	4.4	11.4	81.	16.9
%RSD	.14005	.13402	.16503	.76349
#1	3147.7	8529.6	48983.	2206.2
#2	3139.9	8507.0	48829.	2201.3
#3	3140.3	8515.6	48862.	2232.7

Zoom In Zoom Out

Sample Name: CCV Acquired: 4/1/2015 10:58:04 Type: QC
Method: 60102007_041712(v209) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2407	39.05	1.909	1.899	1.947	39.51	1.955	1.953	1.941	1.931
Stddev	.0010	.20	.001	.006	.011	.26	.002	.001	.003	.004
%RSD	.4294	.5151	.0603	.3237	.5393	.6580	.0936	.0585	.1676	.1994
#1	.2419	39.26	1.909	1.906	1.958	39.78	1.953	1.952	1.944	1.936
#2	.2400	39.01	1.908	1.899	1.945	39.47	1.955	1.953	1.938	1.929
#3	.2403	38.86	1.910	1.894	1.937	39.27	1.957	1.954	1.940	1.930
Check ?	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass
Value																						
Range																						

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	39.23	39.17	38.64	1.927	1.927	39.74	1.933	1.895	1.927	1.918
Stddev	.15	.23	.12	.003	.008	.15	.002	.006	.003	.002
%RSD	.3881	.5962	.3231	.1786	.3927	.3715	.0757	.3055	.1425	.0846
#1	39.36	39.40	38.78	1.925	1.919	39.89	1.931	1.889	1.927	1.917
#2	39.27	39.17	38.60	1.931	1.927	39.75	1.933	1.896	1.924	1.918
#3	39.06	38.93	38.54	1.925	1.934	39.59	1.934	1.900	1.929	1.920
Check ?	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass
Value																						
Range																						

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.966	1.976	1.928	1.940	1.927	1.948	1.944
Stddev	.002	.002	.012	.004	.006	.004	.001
%RSD	.1149	.1132	.6252	.2345	.3364	.1927	.0476
#1	1.964	1.974	1.940	1.945	1.922	1.951	1.943
#2	1.966	1.974	1.926	1.936	1.926	1.944	1.944
#3	1.968	1.978	1.916	1.940	1.934	1.949	1.944
Check ?	None	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass
Value									
Range									

Zoom In
Zoom Out

Sample Name: CCV Acquired: 4/1/2015 10:58:04 Type: QC
Method: 60102007_041712(v209) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2628.1	8098.8	45658.	2180.4
Stddev	9.0	11.1	127.	9.3
%RSD	.34073	.13720	.27787	.42746
#1	2638.4	8111.3	45779.	2172.8
#2	2622.4	8090.1	45668.	2177.5
#3	2623.4	8094.9	45526.	2190.8

Zoom In
Zoom Out

Sample Name: CCB Acquired: 4/1/2015 11:02:07 Type: QC
Method: 60102007_041712(v209) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000	.0064	.0005	.0005	.0001	-.0304	.0001	.0001	.0000
Stddev	.000	.0074	.0005	.0005	.0001	.0036	.0001	.0000	.000
%RSD	805.9	115.8	87.49	101.8	87.09	11.80	67.25	37.07	391.7
#1	.0003	.0108	.0002	.0011	.0002	-.0298	.0001	.0001	-.0001
#2	-.0002	-.0022	.0010	.0001	.0001	-.0271	.0001	.0001	.0001
#3	-.0003	.0105	.0003	.0004	.0000	-.0342	.0000	.0001	-.0002
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0001	.0135	-.0090	-.0135	.0001	F.0020	-.0819	.0000	-.0004
Stddev	.0002	.0022	.0362	.0163	.0000	.0004	.0037	.0001	.0003
%RSD	212.7	16.27	401.5	120.0	9.978	20.08	4.557	272.3	78.42
#1	.0001	.0153	.0314	.0038	.0001	.0024	-.0785	.0001	-.0007
#2	-.0002	.0142	-.0383	-.0285	.0001	.0020	-.0814	.0001	-.0001
#3	-.0001	.0110	-.0201	-.0159	.0001	.0016	-.0859	-.0001	-.0003
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit						.0010			
Low Limit						-.0010			

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0015	-.0013	.0012	.0005	.0000	.0006	.0001	-.0001	.0001
Stddev	.0003	.0002	.0003	.0002	.0001	.0001	.0009	.0001	.0001
%RSD	22.78	16.55	23.39	45.38	268.3	14.22	627.0	83.93	43.13
#1	.0015	-.0015	.0013	.0006	.0001	.0007	-.0007	-.0002	.0002
#2	.0019	-.0015	.0014	.0007	.0001	.0007	.0010	-.0001	.0001
#3	.0012	-.0011	.0008	.0003	-.0001	.0005	.0002	.0000	.0001
Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Zoom In
Zoom Out

Sample Name: CCB Acquired: 4/1/2015 11:02:07 Type: QC
Method: 60102007_041712(v209) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3164.9	8534.8	48159.	2186.0
Stddev	6.1	5.2	218.	12.7
%RSD	.19238	.06038	.45239	.58066
#1	3169.6	8537.1	47917.	2184.2
#2	3158.0	8529.0	48340.	2199.4
#3	3167.2	8538.5	48221.	2174.2

Zoom In
Zoom Out

Sample Name: MP28735-B1 Acquired: 4/1/2015 11:06:19 Type: QC
Method: 60102007_041712(v209) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0485	27.62	1.977	2.006	.0519	26.01	.0506	.5095	.2064	.2538
Stddev	.0005	.11	.002	.010	.0004	.19	.0001	.0007	.0002	.0003
%RSD	1.114	.3902	.1210	.5173	.7004	.7116	.1134	.1465	.0762	.1271
#1	.0479	27.50	1.977	1.995	.0515	25.86	.0507	.5103	.2066	.2535
#2	.0490	27.63	1.974	2.005	.0522	25.97	.0506	.5088	.2064	.2541
#3	.0486	27.71	1.979	2.016	.0520	26.22	.0505	.5093	.2063	.2537
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value										
Range										

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	26.64	25.71	25.24	.5015	.5168	26.28	.5110	.4792	.5001	1.977
Stddev	.12	.17	.14	.0005	.0008	.11	.0007	.0008	.0003	.006
%RSD	.4688	.6438	.5416	.0982	.1494	.4050	.1305	.1580	.0616	.3196
#1	26.51	25.59	25.09	.5016	.5174	26.15	.5114	.4800	.4998	1.977
#2	26.65	25.64	25.28	.5010	.5159	26.32	.5102	.4791	.5002	1.971
#3	26.76	25.90	25.35	.5019	.5172	26.35	.5114	.4785	.5004	1.983
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value										
Range										

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0314	.5539	.5304	.5222	1.940	.4933	.5085
Stddev	.0001	.0013	.0023	.0007	.003	.0006	.0011
%RSD	.4077	.2270	.4250	.1344	.1522	.1125	.2183
#1	.0315	.5553	.5285	.5228	1.941	.4933	.5097
#2	.0312	.5528	.5298	.5214	1.936	.4928	.5075
#3	.0315	.5536	.5329	.5225	1.942	.4939	.5081
Check ?	None	Chk Pass	None	None	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Zoom In
Zoom Out

Sample Name: MP28735-B1 Acquired: 4/1/2015 11:06:19 Type: QC
Method: 60102007_041712(v209) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2718.2	8092.2	45485.	2123.0
Stddev	5.6	20.6	160.	15.6
%RSD	.20501	.25425	.35192	.73422
#1	2712.0	8068.5	45311.	2141.0
#2	2720.2	8103.7	45517.	2114.4
#3	2722.6	8104.4	45627.	2113.6

Zoom In
Zoom Out

Sample Name: FA23026-1F Acquired: 4/1/2015 11:10:18 Type: Unk
Method: 60102007_041712(v209) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)
Avg	.0000	.0513	.0084	.0647	.0000	39.17	.0001	.0000	.0012
Stddev	.0000	.0066	.0004	.0001	.000	.13	.0000	.000	.0002
%RSD	164.8	12.78	4.637	.2313	64.79	.3362	19.84	494.1	16.19
#1	.0000	.0490	.0080	.0649	-.0001	39.05	.0001	.0000	.0012
#2	.0000	.0588	.0084	.0647	-.0001	39.16	.0001	.0000	.0013
#3	.0001	.0463	.0088	.0646	.0000	39.31	.0001	-.0001	.0010

Elem	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
IS Ref	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)
Avg	.0025	.8231	20.99	14.42	.0552	.0128	F188.7	.0003	-.0021
Stddev	.0002	.0054	.10	.05	.0001	.0000	1.5	.0001	.0005
%RSD	8.970	.6565	.4992	.3586	.1610	.3098	.7797	47.39	23.68
#1	.0026	.8208	20.92	14.43	.0552	.0128	187.0	.0002	-.0022
#2	.0026	.8193	20.94	14.37	.0552	.0127	189.7	.0002	-.0016
#3	.0022	.8293	21.11	14.47	.0553	.0128	189.4	.0005	-.0026

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	.0022	.0002	13.44	.0010	.4278	.0036	-.0011	.0019	.2088
Stddev	.0008	.0008	.03	.0001	.0009	.0010	.0003	.0002	.0001
%RSD	37.29	500.9	.2064	11.17	.2078	26.56	23.72	9.158	.0316
#1	.0021	.0007	13.46	.0011	.4268	.0047	-.0008	.0019	.2089
#2	.0015	-.0007	13.45	.0009	.4278	.0032	-.0011	.0018	.2088
#3	.0031	.0005	13.41	.0009	.4286	.0029	-.0014	.0021	.2088

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	2596.3	7843.4	43472.	2144.1
Stddev	5.3	9.6	225.	20.5
%RSD	.20424	.12239	.51764	.95515
#1	2596.6	7839.0	43729.	2161.6
#2	2601.5	7854.4	43310.	2149.2
#3	2590.9	7836.8	43377.	2121.6

Zoom In
Zoom Out

Sample Name: MP28735-D1 Acquired: 4/1/2015 11:14:27 Type: Unk
Method: 60102007_041712(v209) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)
Avg	.0000	.0560	.0082	.0651	.0000	39.21	.0001	.0000	.0010
Stddev	.000	.0080	.0005	.0006	.0000	.14	.0000	.000	.0000
%RSD	4728.	14.32	5.558	.9103	64.48	.3502	42.23	177.5	2.856
#1	-.0001	.0523	.0077	.0653	.0000	39.12	.0001	.0000	.0010
#2	.0003	.0504	.0086	.0655	.0000	39.37	.0001	-.0001	.0010
#3	-.0002	.0652	.0082	.0644	.0000	39.14	.0001	-.0001	.0010

Elem	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
IS Ref	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)
Avg	.0019	.8195	20.89	14.46	.0559	.0124	F188.0	.0003	-.0015
Stddev	.0002	.0017	.01	.12	.0002	.0001	.5	.0002	.0001
%RSD	10.96	.2041	.0703	.8596	.3523	1.117	.2754	56.03	4.612
#1	.0019	.8182	20.87	14.37	.0557	.0126	187.6	.0002	-.0014
#2	.0017	.8214	20.89	14.60	.0561	.0123	188.6	.0002	-.0015
#3	.0021	.8188	20.90	14.42	.0559	.0124	187.9	.0006	-.0015

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	.0016	-.0004	13.36	.0007	.4257	.0028	-.0012	.0017	.2091
Stddev	.0009	.0011	.01	.0004	.0020	.0003	.0001	.0004	.0002
%RSD	53.69	269.0	.0792	55.37	.4669	12.09	12.34	21.22	.1073
#1	.0026	.0008	13.35	.0010	.4256	.0025	-.0011	.0015	.2091
#2	.0010	-.0006	13.37	.0003	.4277	.0029	-.0014	.0021	.2089
#3	.0013	-.0014	13.36	.0007	.4238	.0032	-.0011	.0014	.2093

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	2600.1	7863.0	43059.	2105.6
Stddev	2.0	8.0	222.	17.5
%RSD	.07788	.10201	.51442	.82877
#1	2598.0	7859.1	43198.	2125.2
#2	2600.1	7872.2	42804.	2091.6
#3	2602.1	7857.7	43176.	2100.1

Zoom In
Zoom Out

Sample Name: MP28735-SD1 Acquired: 4/1/2015 11:18:34 Type: Unk
Method: 60102007_041712(v209) Mode: CONC Corr. Factor: 5.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	-.0009	.1011	.0070	.0691	-.0002	41.02	.0002	.0002	.0015	.0022
Stddev	.0014	.0453	.0013	.0016	.0005	.21	.0002	.0002	.0001	.0014
%RSD	151.3	44.83	19.25	2.355	207.2	.5118	162.5	102.2	8.497	65.13
#1	-.0003	.1009	.0079	.0682	-.0007	40.79	-.0001	.0003	.0013	.0019
#2	-.0025	.0558	.0076	.0710	-.0003	41.07	.0001	.0004	.0016	.0009
#3	.0001	.1464	.0054	.0682	.0003	41.21	.0004	.0000	.0015	.0037

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	.8513	21.00	15.10	.0571	.0117	210.6	.0002	-.0067	.0006	-.0024
Stddev	.0247	.06	.39	.0004	.0003	.8	.0007	.0020	.0008	.0036
%RSD	2.907	.2648	2.590	.7209	2.967	.3627	456.3	30.37	128.3	148.4
#1	.8337	21.03	15.35	.0567	.0118	209.9	-.0006	-.0054	.0015	.0014
#2	.8406	21.03	14.65	.0571	.0113	210.5	.0009	-.0091	.0002	-.0028
#3	.8796	20.93	15.30	.0576	.0120	211.4	.0002	-.0058	.0001	-.0057

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	13.76	.0012	.4374	.0028	-.0008	.0009	.2163
Stddev	.03	.0017	.0024	.0004	.0026	.0009	.0008
%RSD	.1867	148.6	.5454	12.72	311.8	96.79	.3663
#1	13.75	-.0002	.4348	.0032	.0005	.0013	.2154
#2	13.75	.0006	.4378	.0027	-.0039	.0016	.2165
#3	13.79	.0031	.4396	.0025	.0008	-.0001	.2169

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	2849.7	8190.1	45171.	2117.5
Stddev	3.5	11.0	166.	14.1
%RSD	.12162	.13427	.36808	.66724
#1	2852.7	8200.0	45346.	2103.9
#2	2845.9	8192.0	45154.	2116.4
#3	2850.5	8178.3	45014.	2132.1

Zoom In Zoom Out

Sample Name: MP28735-PS1 Acquired: 4/1/2015 11:22:42 Type: Unk
Method: 60102007_041712(v209) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)
Avg	.0500	2.705	.1168	.3270	.0540	43.98	.0540	.0537	.0552
Stddev	.0004	.018	.0006	.0020	.0004	.17	.0001	.0001	.0003
%RSD	.7743	.6622	.5322	.6157	.7416	.3860	.1456	.1822	.5224
#1	.0502	2.699	.1171	.3281	.0542	44.06	.0540	.0538	.0550
#2	.0495	2.691	.1172	.3246	.0536	43.78	.0539	.0536	.0555
#3	.0502	2.725	.1161	.3281	.0543	44.09	.0541	.0538	.0551

Elem	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
IS Ref	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)
Avg	.1082	3.921	31.22	19.19	.1083	.1175	F193.4	.1086	.0486
Stddev	.0004	.012	.18	.05	.0002	.0002	1.1	.0003	.0002
%RSD	.4037	.3145	.5883	.2642	.1689	.1846	.5741	.2443	.4290
#1	.1085	3.929	31.27	19.13	.1081	.1176	192.4	.1086	.0485
#2	.1077	3.906	31.02	19.22	.1084	.1173	193.1	.1084	.0488
#3	.1085	3.927	31.38	19.21	.1084	.1176	194.6	.1089	.0484

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	.1078	.1045	13.17	.0541	.4720	.1079	.0999	.0551	.4771
Stddev	.0008	.0014	.02	.0004	.0035	.0004	.0010	.0001	.0001
%RSD	.7339	1.295	.1635	.8207	.7362	.4102	1.030	.1448	.0244
#1	.1081	.1059	13.19	.0541	.4733	.1075	.1009	.0550	.4773
#2	.1084	.1032	13.15	.0536	.4681	.1083	.1000	.0551	.4770
#3	.1069	.1043	13.17	.0545	.4747	.1078	.0988	.0552	.4771

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	2559.4	7785.3	42771.	2079.0
Stddev	4.1	9.7	59.	8.9
%RSD	.15932	.12490	.13764	.42828
#1	2556.7	7774.7	42839.	2073.5
#2	2557.5	7787.4	42737.	2089.2
#3	2564.1	7793.8	42737.	2074.1

Zoom In Zoom Out

Sample Name: MP28735-S1 Acquired: 4/1/2015 11:26:47 Type: Unk
Method: 60102007_041712(v209) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)
Avg	.0520	29.02	2.125	2.224	.0546	67.45	.0516	.5156	.2137
Stddev	.0003	.76	.005	.055	.0013	1.81	.0002	.0016	.0011
%RSD	.6194	2.621	.2289	2.486	2.318	2.684	.4241	.3145	.5336
#1	.0523	29.89	2.125	2.288	.0561	69.54	.0517	.5161	.2125
#2	.0517	28.64	2.129	2.187	.0539	66.34	.0518	.5168	.2141
#3	.0521	28.52	2.120	2.198	.0539	66.47	.0514	.5137	.2147

Elem	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
IS Ref	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)
Avg	.2652	28.77	49.28	41.55	.5854	.5449	F212.6	.5225	.4973
Stddev	.0005	.71	1.36	1.13	.0014	.0016	2.9	.0016	.0015
%RSD	.1927	2.454	2.753	2.713	.2431	.2998	1.356	.3074	.2952
#1	.2647	29.58	50.85	42.85	.5838	.5457	216.0	.5234	.4964
#2	.2654	28.31	48.46	40.80	.5856	.5460	210.9	.5234	.4990
#3	.2657	28.42	48.54	41.01	.5866	.5430	211.1	.5207	.4965

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	.5188	2.100	13.54	.5614	1.005	.5524	1.958	.5160	.7299
Stddev	.0027	.008	.05	.0034	.027	.0017	.001	.0019	.0022
%RSD	.5253	.3637	.3369	.6069	2.668	.3090	.0322	.3695	.2968
#1	.5211	2.104	13.57	.5609	1.036	.5505	1.958	.5139	.7295
#2	.5194	2.104	13.57	.5651	.9898	.5528	1.959	.5166	.7322
#3	.5158	2.091	13.49	.5583	.9887	.5538	1.957	.5175	.7279

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	2464.6	7638.9	42011.	2013.7
Stddev	3.6	20.4	86.	42.9
%RSD	.14600	.26656	.20486	2.1298
#1	2467.2	7641.7	42049.	1967.5
#2	2460.5	7617.2	42072.	2052.2
#3	2466.1	7657.6	41913.	2021.3

Zoom In Zoom Out

Sample Name: MP28735-S2 Acquired: 4/1/2015 11:30:55 Type: Unk
Method: 60102007_041712(v209) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)
Avg	.0531	28.81	2.114	2.201	.0542	67.22	.0517	.5158	.2176
Stddev	.0003	.10	.038	.005	.0001	.32	.0010	.0090	.0002
%RSD	.4739	.3603	1.814	.2455	.2712	.4764	1.955	1.741	.1139
#1	.0533	28.78	2.070	2.198	.0541	67.24	.0505	.5054	.2175
#2	.0528	28.93	2.137	2.207	.0544	67.53	.0523	.5211	.2174
#3	.0530	28.73	2.136	2.198	.0541	66.89	.0523	.5208	.2179

Elem	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
IS Ref	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)
Avg	.2681	28.59	48.82	41.36	.5967	.5451	F212.5	.5224	.4985
Stddev	.0006	.07	.27	.33	.0007	.0101	2.9	.0095	.0078
%RSD	.2283	.2393	.5483	.7943	.1095	1.857	1.344	1.816	1.573
#1	.2679	28.61	48.80	41.27	.5970	.5334	209.6	.5115	.4894
#2	.2688	28.64	49.10	41.72	.5959	.5515	215.3	.5282	.5031
#3	.2677	28.51	48.57	41.08	.5971	.5504	212.5	.5276	.5029

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	.5190	2.089	13.60	.5610	.9958	.5618	1.961	.5232	.7345
Stddev	.0089	.038	.25	.0087	.0031	.0004	.030	.0008	.0122
%RSD	1.711	1.805	1.864	1.546	.3162	.0678	1.542	.1436	1.667
#1	.5088	2.046	13.31	.5510	.9951	.5622	1.926	.5228	.7204
#2	.5250	2.108	13.76	.5662	.9992	.5614	1.982	.5227	.7421
#3	.5231	2.114	13.74	.5659	.9930	.5619	1.975	.5241	.7411

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	2456.0	7626.3	41311.	2017.9
Stddev	31.7	101.7	23.	18.6
%RSD	1.2900	1.3339	.05651	.92297
#1	2492.6	7743.3	41309.	2022.1
#2	2436.3	7559.3	41336.	1997.5
#3	2439.3	7576.2	41289.	2034.0

Zoom In Zoom Out

Sample Name: FA23026-2F Acquired: 4/1/2015 11:35:01 Type: Unk
Method: 60102007_041712(v209) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)
Avg	.0006	.0573	.0087	.0708	.0000	41.10	.0001	.0000	.0013
Stddev	.0004	.0081	.0008	.0003	.000	.15	.0000	.000	.0002
%RSD	73.81	14.07	9.180	.4858	118.6	.3770	15.85	310.9	12.25
#1	.0003	.0653	.0096	.0712	-.0001	41.16	.0001	.0000	.0015
#2	.0011	.0575	.0082	.0706	.0000	40.92	.0001	-.0001	.0012
#3	.0004	.0491	.0083	.0707	.0000	41.22	.0001	.0000	.0013

Elem	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
IS Ref	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)
Avg	.0025	.9540	21.53	14.82	.0569	.0129	F189.7	.0004	-.0021
Stddev	.0002	.0111	.09	.09	.0001	.0001	.7	.0001	.0002
%RSD	8.734	1.159	.4144	.6123	.2054	.6114	.3432	39.31	7.507
#1	.0025	.9535	21.52	14.89	.0568	.0130	190.0	.0002	-.0020
#2	.0028	.9432	21.44	14.86	.0568	.0129	189.0	.0004	-.0022
#3	.0023	.9653	21.62	14.72	.0570	.0128	190.2	.0005	-.0020

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	.0014	-.0005	13.56	.0009	.4546	.0027	-.0002	.0018	.2376
Stddev	.0005	.0014	.01	.0001	.0019	.0001	.0003	.0001	.0002
%RSD	31.54	266.0	.0394	8.805	.4248	4.094	130.7	6.634	.0898
#1	.0010	-.0021	13.57	.0010	.4562	.0028	-.0001	.0020	.2375
#2	.0018	.0006	13.56	.0009	.4525	.0028	-.0006	.0018	.2375
#3	.0015	-.0001	13.56	.0008	.4552	.0026	.0000	.0017	.2379

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	2562.1	7650.8	41866.	1996.0
Stddev	1.6	5.0	146.	5.4
%RSD	.06372	.06583	.34854	.27266
#1	2562.8	7649.7	41757.	1999.1
#2	2560.3	7656.3	42032.	1999.2
#3	2563.3	7646.4	41809.	1989.7

Zoom In Zoom Out

Sample Name: FA23026-3F Acquired: 4/1/2015 11:39:08 Type: Unk
Method: 60102007_041712(v209) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)
Avg	.0001	.0032	.0010	.0230	.0000	85.73	.0000	.0001	.0121
Stddev	.0002	.0137	.0002	.0004	.000	.36	.0000	.0000	.0002
%RSD	177.2	431.4	17.59	1.644	266.3	.4145	39.04	18.49	1.548
#1	.0000	-.0089	.0013	.0226	.0000	86.08	.0000	.0001	.0123
#2	.0004	.0004	.0009	.0233	-.0001	85.75	.0000	.0001	.0119
#3	.0000	.0180	.0010	.0231	.0000	85.37	.0000	.0001	.0120

Elem	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
IS Ref	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)
Avg	.0009	.0005	22.64	75.62	.0005	.0010	F124.3	.0005	-.0028
Stddev	.0004	.0047	.05	.41	.0000	.0001	.2	.0001	.0003
%RSD	43.47	1022.	.1998	.5427	3.588	11.63	.1965	27.55	11.19
#1	.0010	.0058	22.70	75.94	.0005	.0009	124.5	.0004	-.0027
#2	.0011	-.0016	22.62	75.76	.0005	.0012	124.2	.0007	-.0031
#3	.0004	-.0028	22.61	75.16	.0005	.0010	124.1	.0005	-.0025

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	.0027	.0161	17.53	-.0001	.2851	.0008	-.0013	.0023	.0075
Stddev	.0003	.0016	.10	.0002	.0007	.0001	.0004	.0001	.0001
%RSD	10.92	9.880	.5648	315.9	.2459	7.936	30.29	3.783	.7550
#1	.0025	.0177	17.47	.0000	.2858	.0008	-.0012	.0024	.0074
#2	.0026	.0146	17.48	.0001	.2853	.0007	-.0009	.0023	.0075
#3	.0030	.0159	17.65	-.0003	.2844	.0009	-.0017	.0022	.0075

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	2543.5	7613.2	41663.	2001.1
Stddev	14.1	31.2	94.	4.9
%RSD	.55255	.40972	.22570	.24710
#1	2557.0	7641.8	41554.	1995.7
#2	2544.6	7617.8	41711.	2005.4
#3	2528.9	7579.9	41723.	2002.1

Zoom In Zoom Out

Sample Name: FA23026-4F Acquired: 4/1/2015 11:43:17 Type: Unk
Method: 60102007_041712(v209) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)
Avg	.0002	.0121	.0011	.0229	.0001	85.46	.0000	.0001	.0121
Stddev	.0007	.0175	.0008	.0002	.0002	.59	.000	.0000	.0002
%RSD	428.0	144.5	69.30	.7194	254.1	.6864	776.3	16.48	1.652
#1	-.0005	.0288	.0003	.0231	.0002	84.79	.0000	.0001	.0123
#2	.0010	-.0060	.0018	.0230	-.0001	85.70	-.0001	.0001	.0119
#3	.0000	.0135	.0011	.0228	.0001	85.88	.0000	.0001	.0121

Elem	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
IS Ref	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)
Avg	.0009	.0031	22.83	76.48	.0005	.0010	F124.9	.0004	-.0041
Stddev	.0004	.0025	.12	.52	.0001	.0001	.8	.0001	.0006
%RSD	47.73	80.72	.5300	.6839	14.18	11.25	.6199	30.28	13.56
#1	.0013	.0051	22.69	75.88	.0004	.0010	124.0	.0006	-.0035
#2	.0006	.0038	22.92	76.73	.0005	.0009	125.3	.0003	-.0046
#3	.0006	.0003	22.88	76.83	.0005	.0011	125.3	.0004	-.0041

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	.0023	.0174	17.59	.0000	.2856	.0007	-.0006	.0023	.0074
Stddev	.0022	.0010	.02	.0001	.0012	.0001	.0009	.0002	.0001
%RSD	97.25	5.584	.1132	876.1	.4324	14.04	155.5	8.489	1.086
#1	.0014	.0172	17.61	.0001	.2842	.0008	-.0015	.0023	.0073
#2	.0006	.0184	17.57	.0000	.2865	.0007	-.0002	.0024	.0075
#3	.0047	.0165	17.58	-.0001	.2862	.0007	.0001	.0021	.0074

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	2523.7	7546.7	41070.	1972.7
Stddev	8.5	14.9	210.	24.7
%RSD	.33801	.19711	.51061	1.2540
#1	2531.3	7563.5	40929.	1994.8
#2	2514.4	7535.1	40971.	1977.4
#3	2525.4	7541.7	41311.	1946.0

Zoom In Zoom Out

Sample Name: CCV Acquired: 4/1/2015 11:47:23 Type: QC
Method: 60102007_041712(v209) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2535	40.66	1.987	2.028	2.035	41.11	2.006	2.001	2.021	2.014
Stddev	.0005	.20	.005	.013	.008	.19	.003	.003	.003	.003
%RSD	.2132	.4879	.2673	.6335	.4149	.4707	.1625	.1571	.1478	.1334
#1	.2539	40.58	1.987	2.026	2.036	41.01	2.005	2.001	2.023	2.014
#2	.2538	40.89	1.993	2.042	2.043	41.33	2.009	2.003	2.022	2.011
#3	.2529	40.51	1.982	2.017	2.026	40.99	2.002	1.997	2.018	2.016
Check ?	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass
Value																				
Range																				

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	40.76	41.87	41.07	2.027	1.983	41.15	2.009	1.928	1.976	1.986
Stddev	.24	.22	.33	.014	.007	.25	.004	.004	.004	.007
%RSD	.5956	.5253	.8047	.6908	.3341	.6118	.2017	.2183	.1843	.3464
#1	40.59	41.88	41.03	2.021	1.976	41.05	2.009	1.932	1.977	1.988
#2	41.04	42.09	41.41	2.042	1.989	41.43	2.013	1.928	1.979	1.992
#3	40.66	41.65	40.75	2.016	1.986	40.96	2.005	1.923	1.972	1.979
Check ?	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass
Value																				
Range																				

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.031	2.005	2.018	2.026	1.962	2.003	2.006
Stddev	.007	.002	.009	.002	.005	.004	.003
%RSD	.3705	.1163	.4442	.1028	.2369	.2017	.1425
#1	2.034	2.004	2.020	2.026	1.966	2.005	2.005
#2	2.038	2.007	2.026	2.028	1.964	2.006	2.009
#3	2.023	2.003	2.009	2.024	1.957	1.999	2.003
Check ?	None	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass
Value								
Range								

Zoom In Zoom Out

Sample Name: CCV Acquired: 4/1/2015 11:47:23 Type: QC
Method: 60102007_041712(v209) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2555.6	7801.9	42892.	2008.8
Stddev	1.2	7.6	177.	20.4
%RSD	.04517	.09743	.41223	1.0141
#1	2554.3	7807.4	42795.	2022.9
#2	2556.2	7793.2	42784.	1985.4
#3	2556.3	7805.2	43096.	2018.0

Zoom In
Zoom Out

Sample Name: CCB Acquired: 4/1/2015 11:51:28 Type: QC
Method: 60102007_041712(v209) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0003	-.0113	-.0004	.0004	.0001	-.0479	.0001	.0002	.0000
Stddev	.0003	.0205	.0003	.0002	.0001	.0054	.0000	.0001	.0001
%RSD	129.5	182.2	70.69	37.56	111.9	11.35	25.60	39.62	154.0
#1	.0005	-.0018	-.0001	.0003	.0001	-.0464	.0001	.0003	.0000
#2	-.0001	.0028	-.0005	.0004	.0002	-.0434	.0001	.0002	.0000
#3	.0004	-.0348	-.0006	.0006	.0000	-.0539	.0001	.0001	.0001
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0001	.0129	-.0012	-.0253	.0000	F.0019	-.0328	.0000	-.0006
Stddev	.0002	.0026	.0220	.0211	.0000	.0004	.0045	.0000	.0004
%RSD	239.1	20.23	1817.	83.62	69.76	22.71	13.62	358.5	73.68
#1	.0000	.0147	-.0206	-.0491	.0000	.0023	-.0308	.0000	-.0006
#2	.0004	.0140	.0227	-.0179	.0000	.0018	-.0297	.0000	-.0011
#3	-.0001	.0099	-.0057	-.0088	.0001	.0015	-.0379	.0000	-.0002
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit						.0010			
Low Limit						-.0010			

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0006	-.0011	.0041	.0004	-.0001	.0008	.0004	-.0001	.0001
Stddev	.0001	.0002	.0005	.0002	.0000	.0001	.0009	.0001	.0000
%RSD	15.73	16.24	13.07	55.50	20.46	7.078	211.6	95.35	32.31
#1	.0007	-.0009	.0046	.0006	-.0002	.0008	.0008	.0000	.0001
#2	.0006	-.0011	.0035	.0006	-.0001	.0008	.0010	-.0001	.0001
#3	.0006	-.0013	.0042	.0002	-.0001	.0007	-.0006	-.0002	.0001
Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Zoom In
Zoom Out

Sample Name: CCB Acquired: 4/1/2015 11:51:28 Type: QC
Method: 60102007_041712(v209) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3061.7	8181.3	45485.	2030.8
Stddev	7.0	17.9	80.	16.4
%RSD	.22897	.21900	.17644	.80965
#1	3068.9	8195.3	45394.	2024.5
#2	3061.5	8187.6	45544.	2049.4
#3	3054.8	8161.1	45519.	2018.4

Zoom In
Zoom Out

Sample Name: FA23026-5 Acquired: 4/1/2015 11:55:41 Type: Unk
Method: 60102007_041712(v209) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	-.0002	.0083	-.0007	.0002	.0001	-.0377	.0000	.0002	.0001	.0004
Stddev	.0003	.0083	.0002	.0000	.0000	.0024	.0000	.0000	.0002	.0000
%RSD	108.3	99.81	29.43	17.51	70.47	6.247	111.2	17.75	242.7	8.472
#1	-.0005	.0068	-.0005	.0001	.0000	-.0366	.0000	.0001	-.0001	.0005
#2	-.0001	.0172	-.0006	.0002	.0001	-.0404	.0001	.0002	.0002	.0004
#3	-.0001	.0009	-.0009	.0002	.0001	-.0362	.0000	.0001	.0001	.0004

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	.0300	-.0139	-.0221	.0000	.0002	-.0305	.0000	-.0007	.0006	.0004
Stddev	.0017	.0121	.0224	.0000	.0001	.0080	.000	.0005	.0012	.0007
%RSD	5.797	87.07	101.5	64.58	50.30	26.20	594.3	64.09	194.7	184.2
#1	.0295	-.0023	-.0054	.0001	.0001	-.0236	-.0002	-.0002	.0006	.0003
#2	.0320	-.0264	-.0476	.0000	.0004	-.0393	.0000	-.0012	-.0006	.0011
#3	.0286	-.0130	-.0133	.0000	.0002	-.0286	.0001	-.0008	.0019	-.0003

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	.0252	-.0004	-.0003	.0001	-.0006	.0001	.0090
Stddev	.0004	.0002	.0000	.0001	.0005	.0001	.0001
%RSD	1.624	45.65	12.80	85.83	83.42	154.6	.5818
#1	.0253	-.0006	-.0003	.0002	-.0008	.0001	.0091
#2	.0255	-.0003	-.0004	.0002	-.0009	.0001	.0090
#3	.0247	-.0004	-.0004	.0000	.0000	.0000	.0090

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	3017.3	8091.2	44959.	2022.6
Stddev	1.0	2.2	106.	15.8
%RSD	.03354	.02660	.23543	.78340
#1	3017.5	8091.8	44894.	2018.6
#2	3018.1	8088.8	44902.	2009.2
#3	3016.1	8093.0	45081.	2040.1

Zoom In
Zoom Out

Sample Name: FA23061-1 Acquired: 4/1/2015 12:06:06 Type: Unk
Method: 60102007_041712(v209) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	.0000	.0867	.0001	.0958	.0000	126.4	.0001	.0000	.0008	.0004
Stddev	.000	.0107	.0004	.0005	.0001	.5	.0000	.0001	.0001	.0002
%RSD	1787.	12.34	253.1	.4949	6468.	.4230	29.70	74080.	16.43	52.04
#1	.0001	.0967	-.0001	.0964	.0002	125.8	.0001	.0001	.0009	.0002
#2	.0000	.0754	.0005	.0956	-.0001	126.8	.0001	.0000	.0008	.0006
#3	-.0001	.0878	.0000	.0956	-.0001	126.7	.0001	.0000	.0006	.0004

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	.1129	4.519	57.10	.0051	.0017	28.14	.0002	-.0041	.0029	.0003
Stddev	.0042	.012	.07	.0001	.0002	.14	.0002	.0002	.0003	.0020
%RSD	3.746	.2658	.1254	1.173	10.51	.4890	88.49	5.101	8.696	558.4
#1	.1080	4.532	57.02	.0050	.0019	27.98	.0002	-.0040	.0031	-.0019
#2	.1151	4.518	57.13	.0051	.0016	28.20	.0000	-.0040	.0029	.0017
#3	.1155	4.508	57.16	.0051	.0015	28.23	.0004	-.0044	.0026	.0013

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	10.11	.0003	.5145	.0061	-.0017	.0029	.1437
Stddev	.01	.0001	.0024	.0002	.0007	.0003	.0002
%RSD	.0653	33.43	.4658	2.930	43.61	8.720	.1169
#1	10.11	.0002	.5117	.0063	-.0012	.0027	.1437
#2	10.11	.0002	.5161	.0061	-.0025	.0028	.1435
#3	10.12	.0003	.5156	.0059	-.0013	.0032	.1438

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	2629.5	7621.0	41720.	2005.9
Stddev	6.4	10.1	141.	16.7
%RSD	.24434	.13206	.33887	.83323
#1	2631.3	7624.8	41575.	2025.2
#2	2634.9	7628.6	41728.	1997.0
#3	2622.4	7609.6	41857.	1995.6

Zoom In Zoom Out

Sample Name: FA23025-1 Acquired: 4/1/2015 12:10:14 Type: Unk
Method: 60102007_041712(v209) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	-.0002	.0169	.0001	.0211	-.0001	4.005	.0004	.0016	-.0001	.0014
Stddev	.0002	.0112	.0001	.0002	.0001	.031	.0000	.0001	.0000	.0003
%RSD	103.9	66.36	203.2	.8319	64.50	.7691	8.027	4.136	62.49	24.07
#1	-.0004	.0040	.0000	.0211	-.0001	4.032	.0004	.0016	-.0001	.0015
#2	.0000	.0224	.0002	.0209	-.0002	3.972	.0004	.0016	.0000	.0010
#3	-.0002	.0243	.0000	.0213	-.0001	4.012	.0004	.0015	-.0001	.0016

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	31.46	1.296	1.041	.7501	.0006	3.026	-.0003	-.0005	.0013	-.0002
Stddev	.23	.013	.016	.0022	.0000	.006	.0001	.0003	.0011	.0007
%RSD	.7328	.9916	1.493	.2977	4.267	.1992	14.54	60.95	79.36	410.2
#1	31.59	1.282	1.051	.7476	.0006	3.032	-.0004	-.0007	.0023	.0004
#2	31.19	1.306	1.023	.7512	.0006	3.020	-.0003	-.0002	.0015	-.0009
#3	31.59	1.301	1.048	.7516	.0006	3.026	-.0003	-.0007	.0002	.0000

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	2.063	.0001	.0106	.0004	-.0008	.0004	.0085
Stddev	.007	.0001	.0000	.0001	.0003	.0002	.0000
%RSD	.3204	94.86	.4651	27.56	36.82	51.80	.5143
#1	2.057	.0000	.0106	.0004	-.0005	.0007	.0085
#2	2.062	.0001	.0105	.0006	-.0011	.0003	.0085
#3	2.070	.0002	.0106	.0004	-.0010	.0003	.0086

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	2954.3	8187.6	45112.	2074.6
Stddev	7.0	26.0	123.	7.7
%RSD	.23555	.31746	.27175	.37055
#1	2962.3	8216.2	45132.	2068.3
#2	2950.5	8181.0	44980.	2083.2
#3	2950.1	8165.5	45222.	2072.3

Zoom In Zoom Out

Sample Name: FA23025-2 Acquired: 4/1/2015 12:14:22 Type: Unk
Method: 60102007_041712(v209) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	-.0003	60.70	-.0005	.0761	.0007	.1229	.0001	.0016	.0059	.0085
Stddev	.0001	.17	.0005	.0006	.0001	.0050	.0000	.0000	.0001	.0002
%RSD	52.34	.2734	90.36	.8527	17.81	4.091	49.25	1.623	2.153	2.502
#1	-.0004	60.62	-.0008	.0757	.0005	.1184	.0001	.0016	.0058	.0082
#2	-.0001	60.89	.0000	.0768	.0008	.1283	.0001	.0017	.0060	.0085
#3	-.0004	60.58	-.0007	.0757	.0007	.1219	.0001	.0017	.0058	.0086

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	2.231	.2622	.4027	.3677	.0000	.1621	.0049	.0330	.0017	.0060
Stddev	.015	.0281	.0457	.0011	.0000	.0061	.0002	.0010	.0002	.0022
%RSD	.6630	10.70	11.34	.2911	87.55	3.772	4.783	3.111	11.99	36.52
#1	2.220	.2606	.3794	.3684	.0000	.1603	.0048	.0335	.0015	.0083
#2	2.248	.2350	.4553	.3665	.0000	.1571	.0051	.0318	.0017	.0058
#3	2.224	.2910	.3734	.3682	.0000	.1689	.0047	.0337	.0019	.0039

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	26.20	.0000	.0103	.0070	-.0011	.0009	.0391
Stddev	.03	.0002	.0001	.0002	.0005	.0002	.0001
%RSD	.1062	932.1	.6823	3.018	42.14	24.78	.1736
#1	26.21	.0001	.0104	.0071	-.0013	.0010	.0390
#2	26.17	-.0002	.0103	.0071	-.0014	.0007	.0391
#3	26.22	.0002	.0102	.0067	-.0006	.0011	.0391

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	2902.8	8378.7	45405.	2111.1
Stddev	8.5	14.8	72.	11.6
%RSD	.29117	.17634	.15886	.54919
#1	2906.3	8390.4	45356.	2111.6
#2	2908.8	8383.7	45372.	2099.2
#3	2893.1	8362.1	45488.	2122.4

Zoom In Zoom Out

Sample Name: FA23025-3 Acquired: 4/1/2015 12:18:29 Type: Unk
Method: 60102007_041712(v209) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	.0019	.0062	.0052	.0687	.0000	.9790	.0002	.0265	.0130	.0018
Stddev	.0001	.0104	.0000	.0006	.000	.0221	.0000	.0001	.0002	.0002
%RSD	3.077	168.7	.3931	.8125	594.6	2.252	8.853	.4031	1.798	8.705
#1	.0018	-.0050	.0053	.0694	.0000	.9720	.0002	.0266	.0128	.0017
#2	.0019	.0156	.0052	.0683	-.0002	.9613	.0003	.0264	.0132	.0016
#3	.0020	.0079	.0052	.0685	.0001	1.004	.0002	.0265	.0130	.0019

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	23.85	2.355	2.971	*****	-.0032	8.075	.0001	.0063	.0006	.0322
Stddev	.15	.021	.033	-----	.0001	.083	.0001	.0003	.0006	.0014
%RSD	.6115	.8753	1.108	-----	2.152	1.028	102.5	4.766	101.3	4.316
#1	24.02	2.351	2.963	-----	-.0031	8.156	.0003	.0063	.0003	.0307
#2	23.75	2.377	2.943	-----	-.0031	7.990	.0001	.0067	.0003	.0334
#3	23.79	2.337	3.007	-----	-.0032	8.079	.0000	.0060	.0013	.0325

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	1.337	.0001	.0024	.0002	.0528	-.0250	.0146
Stddev	.002	.0003	.0002	.0000	.0004	.0002	.0000
%RSD	.1703	390.8	8.502	20.88	.7979	.6582	.1653
#1	1.338	.0003	.0023	.0002	.0524	-.0251	.0146
#2	1.334	-.0002	.0023	.0002	.0532	-.0252	.0146
#3	1.337	.0002	.0027	.0001	.0528	-.0249	.0146

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	2856.7	8672.1	47234.	2191.5
Stddev	7.6	18.4	80.	28.8
%RSD	.26605	.21267	.16885	1.3133
#1	2857.4	8677.9	47305.	2171.8
#2	2864.0	8687.0	47148.	2224.5
#3	2848.8	8651.5	47250.	2178.1

Zoom In Zoom Out

Sample Name: FA23025-4 Acquired: 4/1/2015 12:22:43 Type: Unk
Method: 60102007_041712(v209) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	-.0002	.7379	-.0002	.0096	-.0001	4.932	.0001	.0014	.0018	.0014
Stddev	.0004	.0073	.0004	.0002	.0001	.010	.0000	.0001	.0001	.0002
%RSD	241.0	.9830	158.9	2.500	147.1	.2028	29.64	4.498	6.037	17.62
#1	.0002	.7304	-.0006	.0094	-.0002	4.924	.0001	.0015	.0019	.0017
#2	-.0006	.7384	.0000	.0099	.0000	4.929	.0001	.0014	.0017	.0012
#3	.0000	.7449	.0000	.0095	.0000	4.943	.0001	.0014	.0019	.0013

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	1.239	.4970	.2059	.4372	.0003	.5827	.0008	.0029	.0008	-.0009
Stddev	.003	.0212	.0071	.0011	.0000	.0129	.0001	.0007	.0002	.0002
%RSD	.2087	4.265	3.460	.2600	3.970	2.208	12.30	23.62	27.69	25.14
#1	1.238	.4848	.2139	.4359	.0003	.5975	.0007	.0029	.0006	-.0010
#2	1.242	.5215	.2004	.4381	.0003	.5742	.0009	.0035	.0010	-.0011
#3	1.238	.4847	.2034	.4375	.0003	.5764	.0008	.0022	.0008	-.0007

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	5.133	.0001	.0101	.0122	-.0003	.0028	.0385
Stddev	.007	.0001	.0001	.0001	.0008	.0001	.0001
%RSD	.1428	92.89	.7879	.9707	270.6	5.358	.2334
#1	5.129	.0001	.0102	.0121	.0006	.0028	.0384
#2	5.129	.0001	.0102	.0124	-.0009	.0026	.0385
#3	5.141	.0000	.0100	.0122	-.0006	.0029	.0385

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	3006.6	8554.2	47137.	2162.3
Stddev	5.4	2.2	242.	10.9
%RSD	.17972	.02572	.51393	.50504
#1	3001.4	8553.9	47399.	2174.9
#2	3006.1	8552.1	46921.	2155.5
#3	3012.2	8556.5	47091.	2156.4

Zoom In Zoom Out

Sample Name: FA23025-5 Acquired: 4/1/2015 12:26:52 Type: Unk
Method: 60102007_041712(v209) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	.0000	.1135	-.0007	.0083	.0000	8.368	.0004	.0001	.0016	.0013
Stddev	.0006	.0205	.0005	.0002	.0001	.035	.0000	.0001	.0003	.0000
%RSD	35910.	18.07	80.16	2.415	423.3	.4183	11.88	70.10	19.59	3.433
#1	.0006	.1273	-.0011	.0082	.0001	8.329	.0004	.0001	.0016	.0012
#2	-.0005	.1233	-.0008	.0083	.0000	8.396	.0004	.0000	.0019	.0013
#3	-.0001	.0900	-.0001	.0086	-.0001	8.380	.0003	.0002	.0013	.0012

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	1.874	1.252	1.158	2.725	.0006	.6880	.0002	-.0007	.0015	.0004
Stddev	.011	.026	.033	.023	.0001	.0094	.0001	.0003	.0007	.0006
%RSD	.6078	2.108	2.835	.8423	21.37	1.363	36.02	36.22	46.66	142.4
#1	1.861	1.225	1.135	2.720	.0005	.6813	.0001	-.0009	.0023	.0000
#2	1.875	1.253	1.144	2.749	.0008	.6840	.0003	-.0004	.0012	.0002
#3	1.884	1.277	1.196	2.704	.0007	.6987	.0003	-.0009	.0010	.0012

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	2.799	.0002	.0160	.0031	-.0002	.0019	.0142
Stddev	.006	.0001	.0001	.0003	.0003	.0002	.0000
%RSD	.2263	72.26	.3831	8.379	164.8	8.158	.3323
#1	2.805	.0000	.0160	.0034	-.0004	.0020	.0142
#2	2.793	.0002	.0159	.0030	.0002	.0020	.0142
#3	2.800	.0003	.0160	.0030	-.0003	.0017	.0143

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	2955.7	8154.4	45367.	2046.0
Stddev	5.8	7.3	303.	13.9
%RSD	.19768	.08907	.66724	.67975
#1	2962.2	8162.3	45106.	2046.3
#2	2954.2	8152.7	45295.	2031.9
#3	2950.8	8148.1	45699.	2059.7

Zoom In Zoom Out

Sample Name: FA23025-6 Acquired: 4/1/2015 12:31:10 Type: Unk
Method: 60102007_041712(v209) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)
Avg	-.0011	.0845	.0091	.2252	.0003	.5526	.0002	.0106	.0028
Stddev	.0002	.0058	.0002	.0005	.0000	.0057	.0000	.0000	.0001
%RSD	19.93	6.829	1.985	.2032	13.63	1.029	11.46	.4509	2.280
#1	-.0014	.0831	.0093	.2253	.0003	.5487	.0002	.0106	.0027
#2	-.0010	.0909	.0089	.2247	.0003	.5591	.0002	.0106	.0028
#3	-.0010	.0796	.0091	.2255	.0004	.5500	.0002	.0106	.0029

Elem	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
IS Ref	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)
Avg	-.0003	6.260	1.462	1.169	F9.194	-.0005	2.798	.0003	.0081
Stddev	.0001	.028	.012	.016	.030	.0000	.017	.0001	.0004
%RSD	29.27	.4392	.8192	1.391	.3287	5.055	.6189	20.76	5.140
#1	-.0002	6.291	1.472	1.154	9.214	-.0005	2.816	.0004	.0084
#2	-.0004	6.252	1.465	1.167	9.159	-.0005	2.781	.0003	.0077
#3	-.0003	6.238	1.449	1.187	9.209	-.0005	2.796	.0003	.0083

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	.0004	.0026	1.068	.0001	.0022	.0004	.0108	.0019	.0084
Stddev	.0002	.0004	.001	.0002	.0001	.0001	.0005	.0002	.0000
%RSD	64.35	16.87	.1241	259.7	4.160	16.74	4.308	10.05	.3881
#1	.0005	.0031	1.067	.0003	.0022	.0005	.0109	.0021	.0084
#2	.0001	.0024	1.069	.0000	.0023	.0005	.0111	.0017	.0084
#3	.0005	.0023	1.069	-.0001	.0022	.0003	.0102	.0019	.0085

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	2929.0	13185.	73281.	3371.6
Stddev	5.2	24.	296.	7.9
%RSD	.17716	.17924	.40448	.23529
#1	2923.2	13159.	73281.	3380.7
#2	2930.8	13192.	72984.	3366.2
#3	2933.1	13204.	73577.	3367.9

Zoom In Zoom Out

Sample Name: FA23025-7 Acquired: 4/1/2015 12:35:28 Type: Unk
Method: 60102007_041712(v209) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	.0024	.0354	-.0002	.0961	.0000	5.399	.0009	.0220	.0171	-.0002
Stddev	.0002	.0073	.0002	.0004	.000	.031	.0000	.0000	.0001	.0001
%RSD	9.619	20.68	136.9	.4425	461.9	.5777	1.081	.1533	.6483	66.34
#1	.0022	.0325	.0001	.0957	-.0001	5.398	.0009	.0220	.0170	-.0002
#2	.0026	.0300	-.0002	.0965	.0000	5.431	.0009	.0220	.0171	-.0001
#3	.0023	.0437	-.0004	.0959	.0000	5.368	.0009	.0220	.0173	-.0003

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	4.300	1.061	8.354	*****	-.0046	1.157	.0006	.0069	-.0003	.0397
Stddev	.021	.020	.115	-----	.0001	.012	.0000	.0003	.0005	.0004
%RSD	.4840	1.916	1.382	-----	1.162	1.008	3.237	5.034	176.3	1.062
#1	4.292	1.074	8.257	-----	-.0046	1.169	.0006	.0072	-.0003	.0393
#2	4.323	1.038	8.482	-----	-.0045	1.156	.0006	.0070	-.0007	.0396
#3	4.283	1.072	8.324	-----	-.0046	1.146	.0007	.0065	.0002	.0401

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	.8500	-.0002	.0089	.0003	.0798	-.0354	.0090
Stddev	.0022	.0001	.0000	.0000	.0002	.0005	.0000
%RSD	.2543	52.59	.5393	18.58	.2351	1.367	.2648
#1	.8489	-.0002	.0090	.0003	.0796	-.0359	.0090
#2	.8485	-.0001	.0089	.0002	.0798	-.0354	.0090
#3	.8525	-.0001	.0089	.0003	.0800	-.0349	.0090

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	2830.1	9855.0	53852.	2498.3
Stddev	6.1	10.3	180.	22.7
%RSD	.21441	.10497	.33368	.90743
#1	2829.7	9864.5	53815.	2507.0
#2	2824.2	9844.0	53694.	2472.6
#3	2836.3	9856.5	54048.	2515.4

Zoom In Zoom Out

Sample Name: CCV Acquired: 4/1/2015 12:39:38 Type: QC
Method: 60102007_041712(v209) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2578	40.93	2.006	2.079	2.048	41.33	2.009	2.005	2.037	2.036
Stddev	.0002	.15	.001	.013	.009	.16	.001	.001	.002	.008
%RSD	.0756	.3742	.0721	.6136	.4506	.3941	.0444	.0592	.1138	.3907
#1	.2577	40.82	2.005	2.074	2.042	41.26	2.008	2.004	2.036	2.045
#2	.2577	41.10	2.007	2.093	2.059	41.52	2.009	2.007	2.036	2.034
#3	.2580	40.86	2.005	2.069	2.044	41.21	2.009	2.005	2.040	2.029
Check ?	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass
Value										
Range										

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	41.12	42.61	41.55	2.071	1.998	42.41	2.030	1.946	1.987	1.997
Stddev	.19	.12	.09	.011	.008	.17	.001	.005	.003	.002
%RSD	.4562	.2775	.2070	.5221	.4010	.4042	.0504	.2340	.1604	.1223
#1	40.92	42.50	41.60	2.059	1.989	42.29	2.029	1.944	1.986	1.998
#2	41.29	42.73	41.59	2.078	2.000	42.61	2.031	1.943	1.990	1.999
#3	41.15	42.59	41.45	2.076	2.004	42.34	2.029	1.951	1.984	1.994
Check ?	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass
Value										
Range										

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.042	1.998	2.040	2.061	1.976	2.009	2.010
Stddev	.003	.001	.011	.003	.005	.002	.001
%RSD	.1398	.0493	.5222	.1203	.2436	.1124	.0265
#1	2.044	1.997	2.033	2.058	1.973	2.008	2.009
#2	2.043	1.999	2.052	2.063	1.974	2.007	2.010
#3	2.039	1.998	2.034	2.062	1.982	2.012	2.010
Check ?	None	Chk	Pass	Chk	Pass	Chk	Pass
Value							
Range							

Zoom In
Zoom Out

Sample Name: CCV Acquired: 4/1/2015 12:39:38 Type: QC
Method: 60102007_041712(v209) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2519.0	7725.9	42064.	1976.8
Stddev	8.9	14.4	267.	4.9
%RSD	.35441	.18591	.63487	.24582
#1	2526.0	7742.4	42363.	1979.1
#2	2521.9	7718.9	41980.	1980.1
#3	2508.9	7716.4	41849.	1971.3

Zoom In
Zoom Out

Sample Name: CCB Acquired: 4/1/2015 12:43:42 Type: QC
Method: 60102007_041712(v209) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0003	.0015	-.0004	.0005	-.0001	-.0533	.0001	.0001	-.0001
Stddev	.0003	.0021	.0009	.0003	.0001	.0045	.0000	.0001	.0002
%RSD	93.90	144.0	221.1	55.23	95.87	8.405	36.08	59.38	275.3
#1	.0000	.0039	.0003	.0008	.0000	-.0561	.0001	.0002	.0001
#2	-.0003	.0001	-.0014	.0005	-.0001	-.0556	.0001	.0000	.0000
#3	-.0006	.0004	-.0002	.0002	.0000	-.0481	.0001	.0002	-.0003
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0003	.0170	-.0542	-.0216	.0005	F.0018	-.1079	.0000	-.0001
Stddev	.0002	.0064	.0083	.0049	.0000	.0004	.0059	.000	.0004
%RSD	71.86	37.37	15.29	22.74	9.663	21.97	5.425	293.5	372.7
#1	.0001	.0229	-.0632	-.0160	.0005	.0022	-.1019	.0000	-.0003
#2	.0003	.0179	-.0470	-.0247	.0005	.0018	-.1083	.0000	.0003
#3	.0005	.0103	-.0522	-.0242	.0005	.0014	-.1136	.0000	-.0004
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit						.0010			
Low Limit						-.0010			

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F.0021	-.0004	.0049	.0004	-.0003	.0008	.0008	-.0001	.0001
Stddev	.0006	.0003	.0005	.0002	.0001	.0002	.0005	.0003	.0000
%RSD	29.83	76.40	10.89	41.49	24.44	29.10	64.32	351.1	11.04
#1	.0027	-.0007	.0043	.0003	-.0003	.0011	.0010	.0001	.0001
#2	.0022	-.0004	.0052	.0007	-.0002	.0008	.0002	.0001	.0001
#3	.0015	-.0001	.0052	.0004	-.0003	.0006	.0012	-.0004	.0001
Check ?	Chk Fail	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	.0020								
Low Limit	-.0020								

Zoom In
Zoom Out

Sample Name: CCB Acquired: 4/1/2015 12:43:42 Type: QC
Method: 60102007_041712(v209) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3043.7	8172.0	45067.	2020.9
Stddev	11.4	26.2	320.	10.2
%RSD	.37514	.32089	.70969	.50485
#1	3055.4	8197.6	45385.	2020.5
#2	3043.2	8173.3	44745.	2031.4
#3	3032.6	8145.2	45070.	2011.0

Zoom In
Zoom Out

Sample Name: FA23025-8 Acquired: 4/1/2015 12:47:54 Type: Unk
Method: 60102007_041712(v209) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	-.0002	37.60	.0015	.0631	.0004	.0026	.0003	.0096	1.376	.0399
Stddev	.0000	.05	.0003	.0002	.0001	.0007	.0000	.0001	.001	.0004
%RSD	24.02	.1457	23.32	.3771	13.68	26.82	10.41	.9829	.0846	.9695
#1	-.0002	37.55	.0013	.0628	.0004	.0032	.0003	.0097	1.377	.0396
#2	-.0002	37.66	.0012	.0633	.0004	.0029	.0003	.0095	1.375	.0404
#3	-.0001	37.58	.0019	.0631	.0003	.0018	.0003	.0097	1.376	.0398

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	24.84	.6326	1.191	1.111	.0043	5.173	.0443	.0148	-.0019	.0020
Stddev	.04	.0139	.040	.001	.0000	.012	.0000	.0002	.0006	.0010
%RSD	.1463	2.203	3.373	.0961	1.028	.2283	.0507	1.289	33.61	52.08
#1	24.82	.6189	1.219	1.113	.0043	5.185	.0443	.0150	-.0022	.0029
#2	24.81	.6467	1.208	1.111	.0042	5.171	.0442	.0147	-.0023	.0022
#3	24.88	.6320	1.145	1.111	.0043	5.161	.0443	.0147	-.0011	.0009

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	36.84	.0003	-.0003	.0006	-.0014	.0374	.0409
Stddev	.09	.0003	.0001	.0001	.0003	.0003	.0002
%RSD	.2467	78.61	23.46	16.61	23.44	.7583	.3688
#1	36.74	.0003	-.0004	.0005	-.0012	.0373	.0408
#2	36.90	.0006	-.0003	.0007	-.0018	.0371	.0410
#3	36.88	.0001	-.0002	.0007	-.0012	.0377	.0410

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	2880.8	8706.2	47238.	2218.7
Stddev	5.2	7.4	188.	16.0
%RSD	.17976	.08519	.39858	.71908
#1	2875.3	8699.5	47114.	2228.5
#2	2885.6	8714.2	47145.	2200.3
#3	2881.6	8704.8	47455.	2227.4

Zoom In
Zoom Out

Sample Name: FA23059-1 Acquired: 4/1/2015 12:52:00 Type: Unk
Method: 60102007_041712(v209) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	-.0003	.7943	-.0002	.0114	.0001	5.202	.0003	.0009	.0027	.0026
Stddev	.0002	.0069	.0003	.0003	.0001	.019	.0000	.0001	.0002	.0002
%RSD	58.63	.8730	112.0	2.358	86.00	.3689	10.97	11.38	6.409	8.461
#1	-.0004	.7885	.0001	.0112	.0002	5.190	.0003	.0009	.0029	.0028
#2	-.0004	.7924	-.0004	.0117	.0001	5.225	.0004	.0010	.0027	.0027
#3	-.0001	.8020	-.0004	.0113	.0000	5.193	.0003	.0008	.0025	.0024

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	2.960	.9651	.2788	.1565	.0008	1.366	.0004	.0003	.0012	.0011
Stddev	.005	.0268	.0175	.0001	.0001	.013	.0001	.0002	.0005	.0015
%RSD	.1872	2.774	6.262	.0920	11.35	.9385	31.57	59.32	45.94	133.9
#1	2.954	.9633	.2971	.1566	.0008	1.353	.0005	.0002	.0017	.0014
#2	2.964	.9928	.2624	.1564	.0007	1.367	.0003	.0004	.0006	-.0005
#3	2.963	.9393	.2770	.1563	.0008	1.378	.0006	.0002	.0012	.0025

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	5.091	.0005	.0254	.0113	-.0009	.0048	.0182
Stddev	.010	.0000	.0002	.0001	.0006	.0001	.0001
%RSD	.1947	5.284	.7214	.5264	74.74	2.282	.5582
#1	5.094	.0005	.0252	.0113	-.0001	.0047	.0181
#2	5.100	.0005	.0256	.0113	-.0014	.0048	.0183
#3	5.081	.0005	.0253	.0112	-.0011	.0049	.0182

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	2966.0	8345.0	46309.	2117.0
Stddev	6.3	6.6	137.	9.6
%RSD	.21220	.07908	.29556	.45303
#1	2965.2	8344.0	46153.	2121.0
#2	2960.1	8339.0	46367.	2106.1
#3	2972.6	8352.1	46408.	2124.0

Zoom In
Zoom Out

Sample Name: FA23059-2 Acquired: 4/1/2015 12:56:10 Type: Unk
Method: 60102007_041712(v209) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	.0015	.0916	-.0006	.1836	.0000	1.142	.0002	.0107	.0117	.0001
Stddev	.0003	.0008	.0006	.0013	.000	.063	.0000	.0000	.0001	.0001
%RSD	17.55	.9147	93.78	.7229	1823.	5.546	2.475	.2752	1.257	65.10
#1	.0018	.0924	-.0010	.1827	.0001	1.215	.0002	.0107	.0115	.0001
#2	.0015	.0918	-.0009	.1851	-.0001	1.112	.0002	.0107	.0118	.0002
#3	.0013	.0907	.0000	.1829	.0000	1.100	.0002	.0107	.0116	.0001

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	11.76	2.823	2.238	*****	-.0027	2.490	.0002	.0052	.0003	.0212
Stddev	.10	.016	.043	-----	.0000	.027	.0001	.0004	.0009	.0116
%RSD	.8264	.5671	1.943	-----	.8041	1.071	49.92	7.234	302.7	54.86
#1	11.70	2.825	2.203	31.82	-.0027	2.469	.0002	.0056	-.0007	.0078
#2	11.88	2.837	2.286	-----	-.0027	2.520	.0001	.0049	.0012	.0286
#3	11.72	2.806	2.224	-----	-.0028	2.481	.0003	.0051	.0004	.0272

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	2.341	.0001	.0091	.0021	.0429	-.0154	.0072
Stddev	.004	.0003	.0005	.0001	.0149	.0127	.0000
%RSD	.1607	483.2	5.965	3.557	34.70	82.77	.0992
#1	2.337	.0001	.0098	.0021	.0257	-.0007	.0072
#2	2.341	.0003	.0089	.0020	.0514	-.0229	.0072
#3	2.345	-.0002	.0088	.0021	.0515	-.0226	.0071

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	2871.8	9235.5	50801.	2345.0
Stddev	5.3	10.8	180.	32.5
%RSD	.18360	.11702	.35480	1.3840
#1	2876.7	9244.8	50782.	2362.9
#2	2872.6	9238.1	50989.	2307.5
#3	2866.2	9223.6	50630.	2364.5

Zoom In
Zoom Out

Sample Name: FA23059-3 Acquired: 4/1/2015 13:00:25 Type: Unk
Method: 60102007_041712(v209) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)
Avg	.0003	.1359	-.0009	.0912	.0001	1.782	.0001	.0049	.0034
Stddev	.0003	.0142	.0003	.0004	.0000	.006	.0000	.0000	.0001
%RSD	127.3	10.43	38.32	.4754	16.69	.3595	7.676	.8092	2.989
#1	-.0001	.1196	-.0005	.0915	.0001	1.775	.0001	.0049	.0035
#2	.0006	.1429	-.0009	.0914	.0001	1.783	.0001	.0049	.0033
#3	.0003	.1453	-.0012	.0907	.0001	1.788	.0001	.0048	.0035

Elem	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
IS Ref	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)
Avg	.0014	3.145	.6889	2.823	F9.679	-.0008	3.465	.0000	.0012
Stddev	.0001	.014	.0182	.006	.056	.0001	.008	.0001	.0007
%RSD	4.177	.4516	2.648	.2197	.5749	7.055	.2420	153.4	52.62
#1	.0014	3.157	.6902	2.830	9.629	-.0009	3.460	.0001	.0010
#2	.0013	3.149	.7065	2.821	9.739	-.0008	3.475	.0000	.0008
#3	.0014	3.130	.6701	2.818	9.671	-.0008	3.460	.0000	.0020

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	.0014	.0019	2.619	.0003	.0091	.0049	.0027	.0038	.0100
Stddev	.0001	.0007	.004	.0000	.0000	.0001	.0003	.0003	.0001
%RSD	5.173	38.85	.1484	15.90	.4609	1.572	9.256	6.641	.6161
#1	.0013	.0025	2.621	.0003	.0091	.0048	.0025	.0036	.0100
#2	.0014	.0020	2.621	.0003	.0091	.0049	.0027	.0041	.0100
#3	.0014	.0011	2.614	.0003	.0091	.0050	.0030	.0038	.0099

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	2946.0	8256.8	45406.	2070.9
Stddev	5.7	4.3	273.	11.7
%RSD	.19452	.05233	.60137	.56551
#1	2941.1	8254.8	45677.	2076.6
#2	2944.7	8253.8	45131.	2057.5
#3	2952.3	8261.7	45411.	2078.8

Zoom In
Zoom Out

Sample Name: FA23059-4 Acquired: 4/1/2015 13:04:43 Type: Unk
Method: 60102007_041712(v209) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)
Avg	.0000	.4878	.0004	.0140	.0002	3.977	.0003	.0042	.0066
Stddev	.000	.0125	.0003	.0002	.0001	.006	.0000	.0000	.0002
%RSD	306.3	2.572	89.78	1.295	74.97	.1625	16.56	.3389	2.798
#1	-.0001	.4967	.0007	.0142	.0000	3.970	.0002	.0042	.0067
#2	.0001	.4932	.0002	.0140	.0002	3.978	.0003	.0042	.0064
#3	.0000	.4734	.0001	.0139	.0002	3.983	.0003	.0042	.0067

Elem	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
IS Ref	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)
Avg	.0006	10.01	1.247	.7547	F5.730	.0014	1.468	.0014	.0002
Stddev	.0002	.04	.036	.0240	.026	.0001	.006	.0001	.0001
%RSD	29.72	.3867	2.857	3.176	.4582	4.023	.4341	6.548	38.01
#1	.0005	10.03	1.282	.7539	5.744	.0014	1.461	.0015	.0002
#2	.0005	10.03	1.211	.7311	5.700	.0013	1.473	.0013	.0002
#3	.0008	9.964	1.247	.7790	5.746	.0014	1.471	.0014	.0003

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	.0008	.0030	10.95	.0002	.0269	.0075	.0011	.0055	.0124
Stddev	.0002	.0010	.02	.0001	.0003	.0002	.0002	.0001	.0000
%RSD	20.49	33.60	.1811	35.84	.9557	2.140	14.77	2.635	.0549
#1	.0007	.0035	10.97	.0002	.0267	.0074	.0010	.0054	.0124
#2	.0010	.0037	10.93	.0003	.0272	.0075	.0012	.0057	.0124
#3	.0009	.0018	10.94	.0002	.0268	.0077	.0009	.0054	.0124

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	2946.2	8796.2	48600.	2241.5
Stddev	5.1	9.9	341.	15.5
%RSD	.17452	.11227	.70234	.69027
#1	2950.3	8806.0	48848.	2232.7
#2	2940.4	8786.3	48741.	2259.4
#3	2947.8	8796.3	48211.	2232.5

Zoom In Zoom Out

Sample Name: FA23059-5 Acquired: 4/1/2015 13:09:00 Type: Unk
Method: 60102007_041712(v209) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	.0000	.3016	-.0008	.0083	.0000	7.525	.0002	.0006	.0015	.0022
Stddev	.0002	.0119	.0006	.0004	.000	.053	.0000	.0000	.0001	.0002
%RSD	1181.	3.932	71.16	4.453	143.1	.7101	21.68	8.779	3.949	9.436
#1	-.0002	.3151	-.0009	.0079	-.0001	7.513	.0003	.0006	.0015	.0020
#2	.0001	.2926	-.0002	.0085	.0000	7.479	.0002	.0005	.0016	.0024
#3	.0001	.2973	-.0013	.0086	.0000	7.584	.0002	.0006	.0015	.0021

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	1.243	1.239	.3901	.1385	.0006	.7821	.0006	.0002	.0012	.0005
Stddev	.007	.025	.0336	.0003	.0000	.0113	.0001	.0001	.0010	.0008
%RSD	.5422	1.988	8.606	.2263	3.163	1.438	13.50	39.19	82.61	150.7
#1	1.236	1.211	.3860	.1381	.0006	.7706	.0007	.0002	.0009	-.0003
#2	1.247	1.254	.4256	.1388	.0005	.7931	.0006	.0003	.0023	.0012
#3	1.248	1.254	.3588	.1385	.0006	.7827	.0005	.0002	.0004	.0006

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	2.785	.0001	.0184	.0072	-.0011	.0023	.0287
Stddev	.007	.0002	.0002	.0002	.0009	.0003	.0000
%RSD	.2415	109.4	1.331	3.123	75.52	12.67	.1061
#1	2.779	.0003	.0182	.0074	-.0020	.0026	.0287
#2	2.784	.0000	.0183	.0070	-.0003	.0022	.0288
#3	2.792	.0001	.0187	.0071	-.0011	.0020	.0287

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	2966.6	8164.4	45678.	2062.6
Stddev	5.0	4.4	39.	26.3
%RSD	.16691	.05442	.08546	1.2770
#1	2964.2	8164.8	45676.	2046.5
#2	2972.2	8168.6	45639.	2093.0
#3	2963.2	8159.8	45717.	2048.3

Zoom In Zoom Out

Sample Name: FA23158-7 Acquired: 4/1/2015 13:13:09 Type: Unk
Method: 60102007_041712(v209) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	.0006	3.149	.0166	.0812	.0000	106.2	.0000	.0040	.0043	.0018
Stddev	.0002	.025	.0004	.0004	.0001	.5	.0000	.0001	.0004	.0004
%RSD	30.36	.7998	2.356	.5054	324.9	.4356	43.84	1.492	9.016	21.35
#1	.0007	3.123	.0168	.0809	.0002	105.8	.0001	.0041	.0039	.0014
#2	.0007	3.173	.0162	.0817	.0000	106.7	.0000	.0040	.0045	.0022
#3	.0004	3.152	.0170	.0811	.0000	106.1	.0001	.0039	.0046	.0019

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	4.627	7.123	11.31	.5843	.0031	12.55	.0027	.0013	.0012	-.0006
Stddev	.020	.072	.06	.0009	.0001	.04	.0002	.0005	.0004	.0013
%RSD	.4353	1.010	.5557	.1564	2.310	.3040	7.409	36.70	34.14	219.7
#1	4.608	7.065	11.25	.5832	.0032	12.52	.0028	.0018	.0009	-.0015
#2	4.648	7.203	11.38	.5847	.0031	12.59	.0025	.0008	.0016	-.0011
#3	4.624	7.100	11.29	.5848	.0031	12.53	.0027	.0013	.0010	.0009

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	9.421	.0000	.7988	.0285	-.0013	.0064	.0078
Stddev	.014	.0003	.0037	.0003	.0005	.0001	.0000
%RSD	.1446	794.6	.4571	.9118	37.74	2.107	.5618
#1	9.426	.0003	.7948	.0282	-.0015	.0064	.0079
#2	9.431	-.0003	.8020	.0284	-.0007	.0066	.0079
#3	9.405	.0002	.7996	.0287	-.0017	.0063	.0078

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	2664.5	7824.4	42733.	2006.9
Stddev	6.4	6.1	182.	3.2
%RSD	.24176	.07732	.42593	.16171
#1	2662.2	7821.0	42867.	2006.7
#2	2671.7	7831.4	42807.	2003.8
#3	2659.5	7820.8	42526.	2010.3

Zoom In Zoom Out

Sample Name: MP28736-MB1 Acquired: 4/1/2015 13:17:18 Type: QC
Method: 60102007_041712(v209) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000	-.0153	-.0013	.0004	.0000	-.0083	.0000	.0000	.0002	.0003
Stddev	.000	.0192	.0003	.0002	.0002	.0372	.000	.000	.0002	.0002
%RSD	238.2	125.3	25.73	69.77	2248.	446.3	289.4	1936.	83.08	51.09
#1	.0000	-.0172	-.0010	.0006	.0001	.0341	.0000	.0000	.0004	.0005
#2	.0000	.0048	-.0016	.0001	.0002	-.0239	.0000	.0000	.0000	.0003
#3	-.0001	-.0335	-.0012	.0004	-.0002	-.0352	-.0001	-.0001	.0002	.0002
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0044	-.0771	-.0321	.0001	-.0002	-.1158	-.0001	-.0005	.0008	-.0007
Stddev	.0059	.0120	.0337	.0000	.0001	.0052	.0001	.0005	.0005	.0010
%RSD	133.4	15.60	104.8	51.58	48.42	4.515	63.10	109.8	64.96	132.2
#1	.0091	-.0762	-.0708	.0000	-.0002	-.1214	-.0001	.0000	.0011	-.0016
#2	.0064	-.0895	-.0162	.0001	-.0001	-.1111	-.0002	-.0010	.0011	.0003
#3	-.0022	-.0655	-.0094	.0001	-.0002	-.1148	-.0001	-.0005	.0002	-.0009
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0270	.0000	-.0001	-.0002	-.0009	.0000	.0006
Stddev	.0003	.0002	.0002	.0001	.0002	.000	.0000
%RSD	1.174	573.6	136.2	41.95	18.18	3524.	1.415
#1	.0269	-.0001	.0001	-.0003	-.0011	.0001	.0006
#2	.0268	.0003	-.0003	-.0002	-.0009	.0002	.0006
#3	.0274	-.0001	-.0002	-.0001	-.0007	-.0003	.0006
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Zoom In Zoom Out

Sample Name: MP28736-MB1 Acquired: 4/1/2015 13:17:18 Type: QC
Method: 60102007_041712(v209) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2998.2	8079.0	44894.	1993.4
Stddev	5.8	8.7	68.	14.5
%RSD	.19380	.10825	.15170	.72799
#1	3001.7	8085.9	44916.	1979.5
#2	3001.3	8081.8	44948.	2008.5
#3	2991.5	8069.2	44817.	1992.3

Zoom In Zoom Out

Sample Name: MP28736-B1 Acquired: 4/1/2015 13:21:32 Type: QC
Method: 60102007_041712(v209) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0516	28.50	2.062	2.159	.0539	26.69	.0520	.5238	.2160	.2668
Stddev	.0002	.07	.002	.001	.0002	.12	.0002	.0008	.0005	.0004
%RSD	.3086	.2333	.1089	.0297	.4269	.4617	.3011	.1500	.2086	.1648
#1	.0515	28.42	2.061	2.160	.0537	26.59	.0519	.5230	.2163	.2666
#2	.0515	28.56	2.060	2.158	.0542	26.83	.0519	.5239	.2162	.2673
#3	.0518	28.51	2.064	2.158	.0538	26.64	.0522	.5245	.2154	.2666
Check ?	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass
Value										
Range										

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	27.19	27.31	26.19	.5358	.5286	27.56	.5333	.4884	.5141	2.037
Stddev	.07	.07	.14	.0005	.0008	.09	.0006	.0006	.0004	.003
%RSD	.2623	.2577	.5164	.0959	.1476	.3102	.1058	.1162	.0735	.1219
#1	27.12	27.29	26.18	.5353	.5277	27.53	.5327	.4887	.5140	2.039
#2	27.26	27.38	26.32	.5363	.5292	27.66	.5336	.4888	.5146	2.036
#3	27.19	27.24	26.05	.5356	.5289	27.50	.5337	.4878	.5139	2.034
Check ?	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass
Value										
Range										

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0370	.5587	.5507	.5467	1.987	.5093	.5215
Stddev	.0005	.0016	.0013	.0003	.001	.0013	.0002
%RSD	1.401	.2839	.2411	.0621	.0658	.2465	.0323
#1	.0370	.5571	.5500	.5463	1.988	.5079	.5214
#2	.0375	.5588	.5522	.5469	1.988	.5099	.5214
#3	.0364	.5603	.5499	.5469	1.985	.5102	.5217
Check ?	None	Chk	Pass	None	None	Chk	Pass
Value							
Range							

Zoom In Zoom Out

Sample Name: MP28736-B1 Acquired: 4/1/2015 13:21:32 Type: QC
Method: 60102007_041712(v209) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2643.4	7797.8	42802.	2001.4
Stddev	2.0	5.6	85.	15.7
%RSD	.07698	.07225	.19891	.78581
#1	2642.9	7803.0	42800.	2012.4
#2	2641.6	7798.7	42888.	1983.4
#3	2645.6	7791.8	42718.	2008.4

Zoom In Zoom Out

Sample Name: FA23069-10 Acquired: 4/1/2015 13:25:32 Type: Unk
Method: 60102007_041712(v209) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	-.0003	.0520	-.0005	.0166	.0000	.6138	.0000	.0003	-.0001	.0009
Stddev	.0003	.0066	.0004	.0001	.000	.0016	.0000	.0001	.0001	.0002
%RSD	88.40	12.75	77.00	.8409	402.0	.2537	131.6	21.59	56.41	21.91
#1	-.0004	.0445	-.0001	.0167	.0000	.6152	.0000	.0004	-.0001	.0012
#2	-.0004	.0572	-.0009	.0167	-.0002	.6121	.0001	.0003	-.0002	.0008
#3	.0000	.0543	-.0006	.0165	.0001	.6140	.0000	.0003	-.0001	.0008

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	.0128	.4914	1.457	.0074	.0001	8.270	.0001	.0002	.0004	.0011
Stddev	.0026	.0211	.050	.0001	.0001	.050	.0001	.0001	.0008	.0010
%RSD	20.05	4.302	3.443	.9783	163.7	.5984	137.9	74.43	180.9	91.63
#1	.0137	.4825	1.472	.0074	.0001	8.277	.0002	.0000	.0007	.0013
#2	.0099	.5156	1.401	.0074	.0000	8.315	.0000	.0003	-.0005	.0000
#3	.0148	.4762	1.498	.0075	.0000	8.217	.0001	.0002	.0010	.0021

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	1.982	.0001	.0091	.0001	-.0004	-.0001	.0123
Stddev	.005	.0003	.0002	.0001	.0009	.0001	.0001
%RSD	.2411	229.3	2.082	61.38	225.6	137.2	.4434
#1	1.977	-.0002	.0093	.0002	.0005	.0000	.0122
#2	1.982	.0001	.0090	.0001	-.0005	-.0001	.0123
#3	1.986	.0004	.0090	.0001	-.0013	-.0002	.0123

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	2951.7	8117.3	45199.	2027.0
Stddev	4.7	4.7	86.	20.5
%RSD	.16002	.05847	.18939	1.0095
#1	2946.7	8121.2	45286.	2034.9
#2	2956.2	8118.7	45115.	2003.8
#3	2952.2	8112.0	45195.	2042.3

Zoom In Zoom Out

Sample Name: CCV Acquired: 4/1/2015 13:29:42 Type: QC
Method: 60102007_041712(v209) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2577	41.01	2.038	2.074	2.054	41.24	2.038	2.035	2.043	2.047
Stddev	.0016	.13	.006	.006	.005	.12	.003	.003	.007	.002
%RSD	.6211	.3100	.3125	.3048	.2376	.2890	.1550	.1611	.3226	.1165
#1	.2560	40.87	2.032	2.068	2.048	41.12	2.035	2.032	2.037	2.045
#2	.2582	41.03	2.036	2.073	2.057	41.36	2.037	2.035	2.040	2.048
#3	.2591	41.12	2.045	2.080	2.057	41.24	2.041	2.038	2.050	2.049
Check ?	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass
Value										
Range										

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	40.81	42.76	41.13	2.052	2.026	42.62	2.052	1.961	2.023	2.030
Stddev	.15	.11	.13	.020	.012	.13	.005	.002	.010	.007
%RSD	.3783	.2549	.3091	.9491	.5703	.3041	.2396	.1115	.4832	.3304
#1	40.65	42.64	41.01	2.036	2.014	42.47	2.047	1.961	2.012	2.023
#2	40.82	42.84	41.13	2.046	2.027	42.68	2.052	1.963	2.024	2.031
#3	40.96	42.80	41.27	2.074	2.037	42.71	2.057	1.959	2.031	2.036
Check ?	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass
Value										
Range										

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.080	2.029	2.055	2.069	2.002	2.023	2.026
Stddev	.007	.002	.008	.008	.003	.003	.004
%RSD	.3156	.1005	.3680	.3727	.1379	.1272	.2001
#1	2.074	2.027	2.046	2.061	2.002	2.020	2.023
#2	2.080	2.030	2.060	2.070	2.005	2.024	2.025
#3	2.087	2.031	2.058	2.077	1.999	2.025	2.031
Check ?	None	Chk	Pass	Chk	Pass	Chk	Pass
Value							
Range							

Zoom In Zoom Out

Sample Name: CCV Acquired: 4/1/2015 13:29:42 Type: QC
Method: 60102007_041712(v209) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2508.8	7670.1	42229.	2010.2
Stddev	4.3	25.3	287.	1.9
%RSD	.17235	.33032	.67844	.09492
#1	2513.8	7694.7	42507.	2009.8
#2	2506.4	7671.5	42247.	2012.3
#3	2506.2	7644.0	41934.	2008.6

Zoom In Zoom Out

Sample Name: CCB Acquired: 4/1/2015 13:33:47 Type: QC
Method: 60102007_041712(v209) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0002	.0196	.0004	.0011	.0007	-.0306	.0003	.0004	.0006
Stddev	.0002	.0152	.0004	.0001	.0001	.0023	.0001	.0001	.0002
%RSD	163.5	77.76	83.89	11.65	18.51	7.645	40.43	29.03	33.01
#1	.0001	.0059	.0006	.0011	.0006	-.0315	.0004	.0004	.0008
#2	.0004	.0360	.0000	.0013	.0008	-.0280	.0004	.0005	.0004
#3	-.0001	.0169	.0007	.0010	.0006	-.0324	.0002	.0003	.0006
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0006	.0306	-.0453	-.0178	.0006	F.0019	-.0928	.0004	-.0002
Stddev	.0002	.0098	.0217	.0413	.0001	.0004	.0056	.0002	.0001
%RSD	24.52	31.96	47.97	232.6	13.04	20.39	5.998	48.02	73.17
#1	.0008	.0411	-.0271	.0299	.0007	.0023	-.0883	.0005	-.0003
#2	.0006	.0292	-.0693	-.0392	.0006	.0018	-.0911	.0004	.0000
#3	.0005	.0216	-.0394	-.0440	.0005	.0015	-.0990	.0002	-.0003
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit						.0010			
Low Limit						-.0010			

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0017	-.0005	.0075	.0008	.0006	.0015	.0000	.0007	.0005
Stddev	.0003	.0021	.0004	.0001	.0001	.0002	.001	.0002	.0002
%RSD	16.09	436.9	5.706	13.74	17.18	11.82	33970.	36.58	31.42
#1	.0020	-.0018	.0074	.0009	.0005	.0017	.0001	.0004	.0007
#2	.0014	.0020	.0080	.0008	.0006	.0015	.0007	.0009	.0005
#3	.0018	-.0016	.0071	.0007	.0006	.0014	-.0008	.0007	.0004
Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Zoom In Zoom Out

Sample Name: CCB Acquired: 4/1/2015 13:33:47 Type: QC
Method: 60102007_041712(v209) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3008.2	8049.4	44269.	2023.0
Stddev	2.8	16.6	27.	9.1
%RSD	.09249	.20661	.06210	.44998
#1	3007.8	8068.0	44237.	2012.8
#2	3005.6	8044.3	44283.	2026.3
#3	3011.1	8036.0	44287.	2030.1

Zoom In Zoom Out

Sample Name: MP28736-D1 Acquired: 4/1/2015 13:37:59 Type: Unk
Method: 60102007_041712(v209) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	-.0001	.0443	-.0009	.0166	-.0001	.6013	.0000	.0003	.0002	.0000
Stddev	.0002	.0128	.0006	.0007	.0002	.0064	.0000	.0001	.0002	.000
%RSD	263.7	28.97	64.90	4.122	196.5	1.063	77.86	40.34	109.6	4405.
#1	-.0003	.0387	-.0015	.0159	-.0003	.6050	.0001	.0004	.0002	.0002
#2	.0002	.0352	-.0010	.0173	.0001	.6050	.0000	.0002	.0003	-.0002
#3	-.0001	.0590	-.0003	.0167	-.0001	.5939	.0000	.0004	.0000	-.0001

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	.0030	.4768	1.482	.0074	.0002	8.248	.0000	-.0001	.0013	.0003
Stddev	.0066	.0291	.032	.0000	.0001	.036	.000	.0005	.0004	.0003
%RSD	222.0	6.103	2.164	.1687	32.80	.4370	925.8	404.2	26.42	126.0
#1	.0080	.4439	1.509	.0074	.0002	8.222	.0002	-.0001	.0012	.0007
#2	-.0045	.4873	1.490	.0074	.0002	8.289	-.0001	-.0007	.0011	.0000
#3	.0054	.4992	1.447	.0074	.0001	8.233	-.0002	.0004	.0017	.0001

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	1.973	.0004	.0091	.0001	-.0010	.0000	.0126
Stddev	.005	.0002	.0001	.0001	.0007	.000	.0001
%RSD	.2753	44.41	1.068	86.02	75.57	740.9	.4218
#1	1.980	.0005	.0090	.0003	-.0006	-.0001	.0127
#2	1.971	.0006	.0092	.0001	-.0018	.0002	.0125
#3	1.969	.0002	.0091	.0001	-.0005	-.0001	.0126

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	2941.4	8062.8	44459.	2014.3
Stddev	1.8	16.9	175.	11.5
%RSD	.06288	.20964	.39439	.57164
#1	2939.5	8045.7	44434.	2026.2
#2	2943.2	8079.5	44298.	2003.2
#3	2941.5	8063.4	44646.	2013.4

Zoom In
Zoom Out

Sample Name: MP28736-SD1 Acquired: 4/1/2015 13:42:07 Type: Unk
Method: 60102007_041712(v209) Mode: CONC Corr. Factor: 5.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	-.0004	-.0006	-.0021	.0198	.0003	1.171	.0001	.0006	-.0004	-.0003
Stddev	.0018	.0219	.0024	.0009	.0005	.021	.0002	.0004	.0008	.0007
%RSD	489.7	3604.	113.9	4.800	181.6	1.815	218.9	56.27	184.1	199.0
#1	-.0007	.0066	-.0040	.0207	.0008	1.155	-.0001	.0008	.0005	.0004
#2	-.0020	-.0252	-.0030	.0188	-.0001	1.195	.0000	.0008	-.0008	-.0009
#3	.0016	.0168	.0006	.0197	.0000	1.162	.0003	.0002	-.0009	-.0005

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	-.0365	.1705	1.527	.0076	.0000	8.047	-.0002	-.0032	.0000	-.0075
Stddev	.0392	.1578	.221	.0002	.0004	.040	.0003	.0025	.004	.0056
%RSD	107.4	92.60	14.47	2.378	1387.	.4949	152.7	78.93	9553.	74.60
#1	-.0266	-.0071	1.578	.0078	.0003	8.063	-.0003	-.0016	-.0010	-.0010
#2	-.0032	.2949	1.285	.0075	.0002	8.076	-.0004	-.0061	-.0035	-.0108
#3	-.0797	.2236	1.718	.0075	-.0004	8.002	.0001	-.0019	.0044	-.0106

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	2.068	.0005	.0084	-.0003	-.0015	-.0007	.0153
Stddev	.001	.0013	.0004	.0004	.0008	.0012	.0004
%RSD	.0674	265.6	4.547	114.9	50.14	183.0	2.449
#1	2.069	-.0009	.0081	-.0002	-.0007	.0003	.0154
#2	2.066	.0018	.0084	-.0007	-.0021	-.0021	.0156
#3	2.068	.0006	.0088	.0000	-.0018	-.0003	.0149

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	3003.1	8086.8	44820.	2033.5
Stddev	7.6	11.1	216.	7.3
%RSD	.25278	.13683	.48131	.35660
#1	2998.2	8086.6	45060.	2041.5
#2	2999.2	8075.8	44643.	2027.4
#3	3011.8	8098.0	44756.	2031.6

Zoom In
Zoom Out

Sample Name: MP28736-PS1 Acquired: 4/1/2015 13:46:17 Type: Unk
Method: 60102007_041712(v209) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	.0498	2.759	.1059	.2891	.0552	6.102	.0555	.0564	.0554	.1099
Stddev	.0007	.011	.0003	.0008	.0005	.011	.0000	.0001	.0002	.0002
%RSD	1.344	.4024	.2588	.2610	.9006	.1816	.0871	.1680	.3044	.2110
#1	.0491	2.747	.1062	.2895	.0546	6.090	.0555	.0563	.0552	.1097
#2	.0504	2.761	.1056	.2882	.0554	6.106	.0556	.0564	.0556	.1101
#3	.0500	2.769	.1060	.2895	.0555	6.111	.0555	.0565	.0555	.1099

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	3.157	11.42	6.536	.0628	.1080	19.68	.1137	.0495	.1075	.1022
Stddev	.021	.09	.046	.0002	.0001	.05	.0002	.0008	.0004	.0016
%RSD	.6613	.7686	.7082	.3975	.0880	.2691	.2111	1.664	.4012	1.581
#1	3.133	11.32	6.559	.0625	.1079	19.62	.1139	.0504	.1073	.1037
#2	3.169	11.48	6.483	.0628	.1080	19.67	.1135	.0493	.1079	.1023
#3	3.169	11.46	6.567	.0630	.1081	19.73	.1137	.0487	.1071	.1005

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	1.924	.0555	.0622	.1071	.1033	.0534	.2877
Stddev	.002	.0000	.0002	.0004	.0008	.0004	.0006
%RSD	.1013	.0506	.3234	.4102	.7329	.7474	.1958
#1	1.922	.0555	.0620	.1066	.1025	.0530	.2871
#2	1.924	.0555	.0624	.1072	.1035	.0537	.2879
#3	1.926	.0555	.0623	.1074	.1040	.0536	.2882

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	2819.4	8003.4	44569.	2052.6
Stddev	5.1	7.9	267.	7.1
%RSD	.18249	.09862	.59967	.34551
#1	2818.5	8008.3	44863.	2058.8
#2	2814.7	7994.3	44505.	2054.0
#3	2824.9	8007.6	44340.	2044.8

Zoom In
Zoom Out

Sample Name: MP28736-S1 Acquired: 4/1/2015 13:50:20 Type: Unk
Method: 60102007_041712(v209) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	.0511	28.42	2.058	2.159	.0531	27.22	.0520	.5243	.2150	.2637
Stddev	.0004	.13	.001	.009	.0002	.04	.0001	.0009	.0008	.0008
%RSD	.8475	.4551	.0453	.4067	.2940	.1572	.2158	.1661	.3492	.2941
#1	.0508	28.40	2.058	2.154	.0532	27.18	.0519	.5233	.2157	.2628
#2	.0510	28.56	2.060	2.169	.0532	27.26	.0520	.5247	.2142	.2642
#3	.0516	28.31	2.058	2.154	.0529	27.21	.0521	.5249	.2152	.2641

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	27.02	27.62	27.38	.5411	.5300	35.83	.5290	.4913	.5150	2.034
Stddev	.06	.16	.11	.0011	.0010	.11	.0008	.0009	.0007	.002
%RSD	.2382	.5724	.4184	.2080	.1878	.3060	.1432	.1860	.1343	.1118
#1	26.95	27.66	27.29	.5424	.5289	35.75	.5281	.4921	.5142	2.034
#2	27.04	27.75	27.51	.5405	.5305	35.95	.5292	.4903	.5154	2.036
#3	27.07	27.45	27.34	.5404	.5307	35.78	.5296	.4914	.5155	2.031

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	1.968	.5642	.5559	.5454	1.990	.5126	.5319
Stddev	.003	.0003	.0025	.0009	.004	.0003	.0010
%RSD	.1496	.0599	.4553	.1725	.1889	.0628	.1957
#1	1.966	.5639	.5555	.5464	1.990	.5129	.5310
#2	1.967	.5641	.5586	.5445	1.993	.5123	.5318
#3	1.971	.5645	.5536	.5453	1.985	.5127	.5330

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	2631.3	7811.2	43081.	2021.6
Stddev	2.7	12.1	101.	14.0
%RSD	.10353	.15503	.23356	.69306
#1	2631.4	7824.5	43005.	2036.0
#2	2628.6	7808.2	43043.	2020.8
#3	2634.0	7800.9	43195.	2008.0

Zoom In
Zoom Out

Sample Name: MP28736-S2 Acquired: 4/1/2015 13:54:20 Type: Unk
Method: 60102007_041712(v209) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	.0504	28.00	2.031	2.132	.0525	26.81	.0514	.5176	.2127	.2606
Stddev	.0008	.17	.004	.009	.0002	.18	.0002	.0007	.0003	.0002
%RSD	1.526	.6030	.1892	.4438	.4287	.6822	.3053	.1337	.1586	.0742
#1	.0501	28.06	2.032	2.137	.0525	26.92	.0513	.5178	.2129	.2604
#2	.0513	28.13	2.027	2.137	.0527	26.92	.0513	.5168	.2128	.2608
#3	.0499	27.81	2.034	2.121	.0522	26.60	.0516	.5181	.2123	.2604

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	26.67	27.14	27.01	.5371	.5258	35.30	.5224	.4846	.5084	2.004
Stddev	.18	.21	.11	.0019	.0011	.20	.0003	.0001	.0016	.002
%RSD	.6891	.7902	.4060	.3524	.2022	.5549	.0566	.0240	.3163	.1176
#1	26.76	27.27	26.99	.5357	.5258	35.40	.5225	.4847	.5083	2.004
#2	26.79	27.26	27.12	.5392	.5248	35.43	.5221	.4845	.5068	2.002
#3	26.46	26.89	26.90	.5363	.5269	35.07	.5227	.4845	.5100	2.007

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	1.951	.5596	.5511	.5440	1.965	.5070	.5258
Stddev	.004	.0005	.0039	.0017	.000	.0003	.0006
%RSD	.2131	.0898	.7138	.3049	.0205	.0667	.1050
#1	1.951	.5592	.5529	.5428	1.964	.5067	.5258
#2	1.947	.5594	.5538	.5459	1.965	.5071	.5252
#3	1.955	.5602	.5466	.5432	1.964	.5074	.5263

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	2628.2	7796.4	42838.	2024.6
Stddev	1.8	4.0	155.	6.9
%RSD	.06861	.05148	.36215	.34184
#1	2628.2	7796.5	42937.	2016.7
#2	2626.4	7800.5	42659.	2027.8
#3	2630.0	7792.4	42917.	2029.4

Zoom In
Zoom Out

Sample Name: FA23069-11 Acquired: 4/1/2015 13:58:20 Type: Unk
Method: 60102007_041712(v209) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	-.0003	.2509	.0000	.0152	-.0001	.4080	.0001	.0014	.0006	.0005
Stddev	.0004	.0137	.0004	.0002	.0002	.0012	.0000	.0001	.0002	.0002
%RSD	119.8	5.444	906.4	1.157	117.6	.2870	35.55	5.236	32.56	43.19
#1	.0001	.2638	.0002	.0154	-.0003	.4088	.0001	.0014	.0004	.0006
#2	-.0004	.2523	-.0004	.0153	.0000	.4085	.0001	.0015	.0005	.0002
#3	-.0007	.2366	.0003	.0150	-.0001	.4066	.0001	.0014	.0008	.0006

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	3.469	.0399	.7747	.0370	.0003	4.751	.0002	.0310	.0005	-.0005
Stddev	.013	.0119	.0125	.0001	.0001	.009	.0002	.0001	.0002	.0006
%RSD	.3599	29.74	1.612	.3592	40.57	.1970	73.13	.3140	51.30	134.9
#1	3.466	.0270	.7611	.0371	.0004	4.740	.0002	.0312	.0004	-.0012
#2	3.458	.0504	.7855	.0370	.0003	4.754	.0004	.0310	.0008	-.0003
#3	3.482	.0422	.7776	.0369	.0002	4.757	.0001	.0310	.0003	.0000

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	1.402	.0003	.0044	.0047	-.0002	.0004	.0087
Stddev	.003	.0002	.0001	.0001	.0005	.0003	.0000
%RSD	.2019	54.54	1.280	2.995	294.9	70.86	.1245
#1	1.405	.0004	.0044	.0046	.0004	.0004	.0088
#2	1.401	.0001	.0044	.0048	-.0004	.0002	.0087
#3	1.399	.0005	.0043	.0047	-.0006	.0008	.0087

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	2977.1	8174.1	45739.	2067.0
Stddev	8.4	10.5	300.	11.9
%RSD	.28267	.12822	.65565	.57409
#1	2978.6	8171.7	45505.	2078.4
#2	2984.6	8185.6	45636.	2067.8
#3	2968.0	8165.0	46077.	2054.7

Zoom In
Zoom Out

Sample Name: FA23069-12 Acquired: 4/1/2015 14:02:30 Type: Unk
Method: 60102007_041712(v209) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	.0002	.3684	-.0001	.0159	.0001	.4608	.0001	.0014	.0007	.0007
Stddev	.0005	.0043	.0003	.0001	.0001	.0392	.0001	.0001	.0002	.0002
%RSD	285.3	1.164	590.1	.4658	162.6	8.518	88.80	6.128	29.18	27.40
#1	.0007	.3635	.0003	.0158	.0001	.4429	.0001	.0015	.0008	.0009
#2	-.0002	.3714	-.0001	.0160	.0002	.4336	.0000	.0013	.0007	.0005
#3	.0000	.3702	-.0003	.0159	.0000	.5058	.0000	.0015	.0005	.0006

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	3.512	.0123	.8043	.0374	.0001	4.932	.0003	.0349	.0006	-.0003
Stddev	.032	.0148	.0244	.0002	.0001	.030	.0001	.0003	.0012	.0014
%RSD	.9159	120.3	3.037	.4385	94.98	.6106	44.26	.8786	196.3	534.9
#1	3.476	-.0027	.7842	.0373	.0000	4.909	.0003	.0347	.0009	.0009
#2	3.536	.0269	.7973	.0374	.0001	4.966	.0003	.0349	-.0007	.0002
#3	3.525	.0128	.8315	.0376	.0002	4.921	.0001	.0353	.0017	-.0018

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	1.503	.0003	.0047	.0086	-.0004	.0005	.0074
Stddev	.006	.0001	.0003	.0006	.0004	.0003	.0000
%RSD	.4238	27.45	5.852	7.069	87.42	70.99	.6655
#1	1.508	.0003	.0045	.0080	-.0006	.0008	.0074
#2	1.496	.0002	.0047	.0092	.0000	.0004	.0075
#3	1.506	.0003	.0050	.0088	-.0006	.0002	.0074

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	2957.8	8136.2	45552.	2064.3
Stddev	10.5	23.9	202.	18.8
%RSD	.35420	.29381	.44240	.91000
#1	2968.6	8160.3	45559.	2085.7
#2	2947.7	8112.5	45749.	2050.2
#3	2957.2	8135.9	45346.	2057.2

Zoom In
Zoom Out

Sample Name: FA23069-13 Acquired: 4/1/2015 14:06:38 Type: Unk
Method: 60102007_041712(v209) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	.0001	.4692	-.0001	.0088	.0000	.5995	.0001	.0014	.0005	.0001
Stddev	.0001	.0097	.0005	.0002	.000	.0050	.0000	.0000	.0001	.0003
%RSD	82.62	2.075	376.6	2.527	218.2	.8410	15.78	.8911	25.47	236.6
#1	.0002	.4678	-.0004	.0086	.0000	.6053	.0001	.0014	.0003	-.0001
#2	.0000	.4796	.0005	.0088	.0000	.5970	.0001	.0014	.0005	.0004
#3	.0001	.4603	-.0005	.0091	-.0001	.5962	.0001	.0014	.0005	.0001

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	1.355	.0985	.4829	.0209	-.0001	2.921	.0007	.0583	.0009	.0003
Stddev	.001	.0157	.0298	.0000	.0001	.005	.0001	.0009	.0005	.0008
%RSD	.1030	15.99	6.164	.2218	162.1	.1776	8.158	1.563	61.97	323.3
#1	1.356	.0807	.5014	.0209	-.0001	2.922	.0007	.0573	.0012	-.0007
#2	1.353	.1108	.4987	.0209	-.0001	2.916	.0007	.0590	.0003	.0007
#3	1.354	.1039	.4485	.0208	.0000	2.926	.0008	.0585	.0012	.0008

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	1.355	.0002	.0082	.0084	-.0009	.0007	.0232
Stddev	.009	.0002	.0001	.0010	.0004	.0002	.0001
%RSD	.6823	79.26	.6122	12.13	37.71	27.77	.4002
#1	1.362	.0000	.0082	.0077	-.0009	.0008	.0231
#2	1.359	.0002	.0083	.0096	-.0013	.0005	.0232
#3	1.344	.0004	.0082	.0079	-.0006	.0009	.0233

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	2984.1	8155.2	45537.	2062.5
Stddev	4.1	5.7	174.	21.8
%RSD	.13786	.06937	.38103	1.0585
#1	2988.8	8159.6	45522.	2078.0
#2	2981.0	8157.1	45372.	2071.9
#3	2982.6	8148.8	45718.	2037.5

Zoom In
Zoom Out

Sample Name: FA23069-14 Acquired: 4/1/2015 14:10:48 Type: Unk
Method: 60102007_041712(v209) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	-.0003	.3757	-.0006	.0080	.0000	.6775	.0001	.0013	.0004	.0001
Stddev	.0004	.0201	.0004	.0004	.0001	.0036	.0000	.0001	.0002	.0002
%RSD	120.3	5.355	63.73	4.873	339.1	.5302	39.64	4.838	49.04	157.4
#1	.0000	.3737	-.0010	.0077	.0001	.6749	.0001	.0012	.0002	.0000
#2	-.0001	.3566	-.0002	.0078	.0000	.6759	.0000	.0013	.0005	.0003
#3	-.0007	.3967	-.0005	.0084	-.0001	.6816	.0001	.0013	.0006	.0000

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	1.352	.1062	.4721	.0211	-.0001	2.854	.0005	.0489	.0007	-.0006
Stddev	.020	.0110	.0227	.0000	.0001	.020	.0000	.0003	.0013	.0012
%RSD	1.505	10.40	4.809	.2348	162.8	.6827	5.690	.6469	178.7	192.5
#1	1.351	.1111	.4821	.0211	-.0001	2.868	.0005	.0486	.0017	.0007
#2	1.332	.0936	.4880	.0211	-.0001	2.832	.0005	.0489	-.0007	-.0018
#3	1.373	.1139	.4461	.0210	.0000	2.863	.0004	.0493	.0012	-.0008

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	1.284	.0001	.0082	.0057	-.0009	.0008	.0221
Stddev	.004	.0002	.0001	.0011	.0004	.0001	.0000
%RSD	.3409	277.5	1.129	19.25	43.97	9.108	.1841
#1	1.283	.0003	.0083	.0060	-.0013	.0008	.0222
#2	1.280	-.0001	.0082	.0044	-.0008	.0007	.0221
#3	1.289	.0001	.0081	.0065	-.0005	.0009	.0222

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	3004.1	8207.4	45764.	2056.6
Stddev	8.1	11.7	160.	28.3
%RSD	.27112	.14217	.34975	1.3753
#1	3002.4	8200.5	45713.	2037.9
#2	3013.0	8220.8	45636.	2089.1
#3	2997.0	8200.8	45943.	2042.7

Zoom In Zoom Out

Sample Name: FA23069-15 Acquired: 4/1/2015 14:14:56 Type: Unk
Method: 60102007_041712(v209) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	.0001	4.472	-.0002	.0108	.0000	8.077	.0000	.0011	.0034	.0013
Stddev	.0007	.037	.0003	.0002	.0001	.054	.0000	.0000	.0003	.0000
%RSD	918.0	.8273	141.2	2.249	641.9	.6717	57.96	4.440	7.631	2.717
#1	-.0005	4.509	-.0004	.0110	.0000	8.137	.0001	.0011	.0037	.0013
#2	.0008	4.472	.0001	.0107	.0001	8.065	.0000	.0011	.0034	.0012
#3	.0000	4.435	-.0004	.0105	-.0001	8.030	.0000	.0012	.0031	.0013

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	3.373	.1363	.7615	.1202	.0003	7.967	.0014	.0164	.0000	-.0003
Stddev	.016	.0112	.0340	.0005	.0001	.018	.0001	.0004	.0004	.0012
%RSD	.4657	8.228	4.465	.3869	18.60	.2261	6.828	2.418	3822.	350.6
#1	3.389	.1437	.7241	.1203	.0003	7.987	.0013	.0160	.0005	.0010
#2	3.372	.1234	.7701	.1206	.0004	7.959	.0013	.0168	-.0003	-.0006
#3	3.357	.1417	.7904	.1197	.0003	7.954	.0015	.0165	-.0002	-.0014

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	4.500	.0002	.0293	.1143	-.0009	.0119	.0106
Stddev	.049	.0002	.0002	.0035	.0002	.0000	.0001
%RSD	1.086	101.9	.8101	3.050	24.96	.3464	.7469
#1	4.554	.0000	.0295	.1107	-.0006	.0119	.0107
#2	4.487	.0001	.0293	.1176	-.0010	.0118	.0106
#3	4.459	.0004	.0291	.1145	-.0010	.0119	.0107

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	2894.2	8129.9	45272.	2068.3
Stddev	3.5	6.1	305.	7.1
%RSD	.12233	.07510	.67261	.34276
#1	2898.3	8132.1	45023.	2064.8
#2	2892.1	8134.7	45182.	2063.6
#3	2892.2	8123.0	45611.	2076.4

Zoom In Zoom Out

Sample Name: CCV Acquired: 4/1/2015 14:19:03 Type: QC
Method: 60102007_041712(v209) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2554	40.93	2.015	2.035	2.028	41.07	2.045	2.042	2.045	2.025
Stddev	.0003	.09	.003	.007	.002	.11	.001	.000	.001	.002
%RSD	.1352	.2097	.1246	.3298	.0825	.2712	.0301	.0154	.0242	.1066
#1	.2550	40.96	2.012	2.027	2.027	41.07	2.044	2.042	2.046	2.023
#2	.2556	40.99	2.016	2.040	2.029	41.18	2.045	2.042	2.045	2.027
#3	.2556	40.83	2.017	2.037	2.026	40.96	2.045	2.042	2.045	2.024
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value										
Range										

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	40.27	41.92	40.07	2.051	2.025	42.50	2.039	1.966	2.006	2.010
Stddev	.09	.07	.08	.010	.008	.08	.001	.002	.002	.001
%RSD	.2263	.1594	.2022	.4868	.4141	.1949	.0272	.1004	.1010	.0549
#1	40.16	41.94	40.04	2.062	2.016	42.51	2.038	1.964	2.004	2.008
#2	40.34	41.97	40.17	2.048	2.025	42.57	2.039	1.967	2.008	2.011
#3	40.30	41.84	40.02	2.043	2.033	42.41	2.039	1.968	2.005	2.010
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value										
Range										

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.063	2.054	2.037	2.066	2.003	2.036	2.029
Stddev	.001	.002	.002	.002	.003	.001	.000
%RSD	.0535	.0767	.0730	.0975	.1230	.0276	.0147
#1	2.062	2.054	2.036	2.067	2.000	2.036	2.029
#2	2.064	2.055	2.039	2.064	2.005	2.037	2.030
#3	2.062	2.052	2.037	2.068	2.004	2.035	2.029
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Zoom In Zoom Out

Sample Name: CCV Acquired: 4/1/2015 14:19:03 Type: QC
Method: 60102007_041712(v209) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2508.1	7674.4	42460.	2049.4
Stddev	2.5	6.5	72.	11.3
%RSD	.09848	.08478	.17060	.55281
#1	2510.9	7681.0	42425.	2046.4
#2	2506.7	7674.3	42412.	2039.9
#3	2506.6	7668.0	42543.	2061.9

Zoom In Zoom Out

Sample Name: CCB Acquired: 4/1/2015 14:23:09 Type: QC
Method: 60102007_041712(v209) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0002	.0066	-.0004	.0010	.0004	-.0272	.0002	.0003	.0002
Stddev	.0002	.0088	.0002	.0002	.0001	.0169	.0001	.0001	.0001
%RSD	132.5	133.3	46.60	17.59	36.07	62.27	31.12	48.40	29.96
#1	-.0004	.0040	-.0005	.0010	.0003	-.0375	.0003	.0004	.0002
#2	-.0002	.0165	-.0004	.0008	.0005	-.0364	.0002	.0003	.0003
#3	.0000	-.0006	-.0002	.0011	.0003	-.0077	.0001	.0001	.0002
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0004	.0243	-.0307	-.0016	.0003	F.0019	-.1126	.0001	-.0005
Stddev	.0002	.0029	.0103	.0198	.0001	.0005	.0053	.0001	.0004
%RSD	60.11	12.07	33.55	1260.	18.87	26.18	4.696	71.32	79.04
#1	.0006	.0228	-.0352	-.0095	.0004	.0023	-.1169	.0000	-.0010
#2	.0004	.0277	-.0189	-.0162	.0004	.0020	-.1067	.0002	-.0003
#3	.0001	.0225	-.0379	.0210	.0003	.0014	-.1142	.0001	-.0003
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit						.0010			
Low Limit						-.0010			

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0018	-.0018	.0078	.0008	.0003	.0012	.0003	.0005	.0004
Stddev	.0009	.0007	.0016	.0003	.0001	.0001	.0005	.0002	.0001
%RSD	49.61	36.74	19.90	36.82	33.49	7.367	211.4	35.73	17.75
#1	.0022	-.0013	.0069	.0011	.0002	.0013	-.0003	.0007	.0004
#2	.0008	-.0017	.0070	.0007	.0003	.0012	.0008	.0004	.0003
#3	.0025	-.0026	.0097	.0006	.0003	.0012	.0002	.0004	.0003
Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Zoom In
Zoom Out

Sample Name: CCB Acquired: 4/1/2015 14:23:09 Type: QC
Method: 60102007_041712(v209) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3007.6	8046.2	44643.	2012.6
Stddev	1.4	5.8	308.	7.9
%RSD	.04606	.07190	.69008	.39279
#1	3006.2	8050.6	44704.	2011.3
#2	3009.0	8048.3	44916.	2005.4
#3	3007.7	8039.6	44309.	2021.0

Zoom In
Zoom Out

Sample Name: CCV Acquired: 4/1/2015 14:49:55 Type: QC
Method: 60102007_041712(v209) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2467	39.95	1.988	1.996	2.013	40.27	2.008	2.003	2.014	1.996
Stddev	.0006	.13	.002	.008	.007	.13	.001	.000	.004	.002
%RSD	.2350	.3323	.0787	.3877	.3409	.3246	.0485	.0040	.2250	.1144
#1	.2462	39.83	1.986	1.997	2.008	40.17	2.010	2.003	2.019	1.999
#2	.2465	40.09	1.989	2.004	2.021	40.41	2.008	2.003	2.012	1.994
#3	.2473	39.92	1.989	1.988	2.011	40.22	2.008	2.003	2.011	1.995
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value										
Range										

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	40.40	40.15	40.11	2.026	1.995	40.30	2.011	1.967	1.984	1.993
Stddev	.15	.20	.06	.001	.005	.17	.001	.005	.003	.002
%RSD	.3625	.5070	.1467	.0248	.2627	.4192	.0290	.2707	.1342	.0865
#1	40.28	39.97	40.07	2.026	1.989	40.13	2.012	1.973	1.981	1.991
#2	40.57	40.37	40.18	2.027	1.995	40.47	2.011	1.966	1.987	1.995
#3	40.36	40.12	40.07	2.026	2.000	40.29	2.011	1.962	1.984	1.994
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value										
Range										

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.044	1.988	1.995	2.024	1.990	1.978	2.009
Stddev	.002	.001	.006	.001	.004	.002	.003
%RSD	.1029	.0717	.3140	.0333	.1814	.0982	.1452
#1	2.042	1.989	1.989	2.025	1.994	1.981	2.012
#2	2.046	1.987	2.001	2.024	1.988	1.977	2.006
#3	2.043	1.987	1.995	2.024	1.989	1.977	2.009
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Zoom In
Zoom Out

Sample Name: CCV Acquired: 4/1/2015 14:49:55 Type: QC
Method: 60102007_041712(v209) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2546.9	7772.9	43143.	2071.5
Stddev	6.2	19.4	148.	4.7
%RSD	.24151	.24992	.34419	.22450
#1	2541.5	7758.6	42990.	2076.5
#2	2553.6	7795.0	43286.	2067.2
#3	2545.5	7765.2	43152.	2070.7

Zoom In
Zoom Out

Sample Name: CCB Acquired: 4/1/2015 14:56:22 Type: QC
Method: 60102007_041712(v209) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0005	.0069	.0006	.0000	.0002	.0030	.0000	.0000	.0000	.0000
Stddev	.0002	.0108	.0002	.000	.0001	.0010	.0000	.0001	.000	.000
%RSD	34.31	155.9	31.32	268.4	87.67	33.99	154.9	180.1	667.3	563.5
#1	-.0007	.0193	.0004	.0001	.0000	.0040	.0001	.0001	.0003	-.0001
#2	-.0003	.0020	.0006	-.0001	.0003	.0020	.0000	.0000	-.0003	-.0002
#3	-.0005	-.0005	.0007	-.0001	.0002	.0029	.0000	.0000	-.0001	.0001
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0163	.0370	.0002	.0001	.0008	-.0076	.0001	.0000	.0006	.0004
Stddev	.0036	.0408	.0345	.0000	.0002	.0136	.0001	.0001	.0002	.0006
%RSD	22.02	110.4	19320.	6.898	24.71	178.2	54.07	323.2	25.54	151.0
#1	.0204	.0832	-.0304	.0001	.0009	.0074	.0002	.0000	.0006	.0003
#2	.0137	.0215	-.0066	.0001	.0009	-.0113	.0001	.0000	.0005	-.0002
#3	.0148	.0061	.0375	.0001	.0006	-.0190	.0001	.0001	.0008	.0011
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0008	.0003	.0001	.0006	-.0006	.0000	.0000
Stddev	.0004	.0002	.0001	.0001	.0004	.000	.0000
%RSD	51.92	88.75	87.59	15.97	63.95	219.4	127.3
#1	-.0003	.0005	.0002	.0005	-.0007	-.0001	.0000
#2	-.0010	.0004	.0002	.0006	-.0008	.0000	.0000
#3	-.0011	.0000	.0000	.0006	-.0001	.0000	.0000
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Zoom In
Zoom Out

Sample Name: CCB Acquired: 4/1/2015 14:56:22 Type: QC
Method: 60102007_041712(v209) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Int. Std.	ln2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3051.3	8160.8	45661.	2086.5
Stddev	4.3	13.6	69.	12.4
%RSD	.13954	.16675	.15154	.59631
#1	3055.0	8167.8	45733.	2085.7
#2	3052.3	8169.4	45595.	2074.4
#3	3046.7	8145.1	45655.	2099.3

Zoom In
Zoom Out

Sample Name: FA23069-17 Acquired: 4/1/2015 15:00:11 Type: Unk
Method: 60102007_041712(v209) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	-.0002	.6905	.0002	.0259	.0001	.4116	.0001	.0018	.0005	-.0002
Stddev	.0003	.0165	.0006	.0003	.0001	.0056	.0001	.0001	.0002	.0002
%RSD	140.6	2.386	349.8	1.189	124.5	1.350	61.80	3.532	41.77	100.8
#1	-.0003	.6858	.0005	.0259	.0000	.4179	.0001	.0017	.0003	-.0001
#2	-.0004	.6768	.0005	.0256	.0001	.4093	.0001	.0018	.0006	-.0001
#3	.0001	.7088	-.0005	.0263	.0002	.4075	.0002	.0017	.0006	-.0005

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(ln2306)	(Y_2243)	(Y_2243)
Avg	.7929	.1126	1.523	.0838	.0005	3.829	.0016	.0008	.0018	-.0009
Stddev	.0046	.0073	.053	.0003	.0000	.011	.0002	.0003	.0007	.0013
%RSD	.5809	6.472	3.469	.3588	8.500	.2908	9.575	31.35	38.21	144.9
#1	.7896	.1143	1.465	.0836	.0005	3.824	.0014	.0006	.0015	.0006
#2	.7982	.1046	1.569	.0841	.0006	3.820	.0017	.0007	.0014	-.0019
#3	.7911	.1189	1.534	.0836	.0005	3.841	.0017	.0011	.0027	-.0015

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(ln2306)	(Y_3600)	(Y_2243)
Avg	1.649	.0004	.0069	.0089	-.0013	.0003	.0127
Stddev	.006	.0001	.0000	.0012	.0003	.0002	.0000
%RSD	.3389	37.27	.0923	13.41	20.74	66.78	.2754
#1	1.647	.0006	.0069	.0082	-.0011	.0001	.0127
#2	1.645	.0004	.0069	.0083	-.0016	.0005	.0128
#3	1.656	.0003	.0069	.0103	-.0011	.0004	.0127

Int. Std.	ln2306	Y_2243	Y_3600	Y_3710
Avg	2981.0	8234.6	46131.	2087.7
Stddev	7.4	17.3	172.	4.6
%RSD	.24833	.21048	.37229	.21973
#1	2982.4	8239.0	46189.	2092.9
#2	2973.0	8215.5	46266.	2086.2
#3	2987.6	8249.3	45937.	2084.1

Zoom In
Zoom Out

Sample Name: FA23115-1 Acquired: 4/1/2015 15:04:21 Type: Unk
Method: 60102007_041712(v209) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	-.0005	.1020	.0012	.0179	.0001	.4207	.0000	.0020	.0002	.0000
Stddev	.0002	.0086	.0011	.0003	.0001	.0053	.0000	.0000	.0002	.0002
%RSD	41.47	8.467	89.24	1.822	133.2	1.260	336.9	1.834	86.21	342.2
#1	-.0002	.0926	.0023	.0181	.0000	.4256	.0000	.0020	.0000	-.0001
#2	-.0006	.1095	.0002	.0181	.0001	.4214	.0000	.0020	.0004	.0001
#3	-.0006	.1038	.0012	.0176	.0002	.4150	.0000	.0019	.0002	.0002

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(ln2306)	(Y_2243)	(Y_2243)
Avg	4.622	.3526	.9392	.0692	.0002	4.841	.0008	.0062	.0016	-.0008
Stddev	.052	.0182	.0273	.0002	.0000	.032	.0001	.0005	.0001	.0013
%RSD	1.117	5.176	2.905	.2855	11.42	.6596	8.609	7.467	7.256	168.2
#1	4.672	.3362	.9703	.0690	.0002	4.876	.0008	.0061	.0015	-.0016
#2	4.625	.3723	.9280	.0693	.0002	4.833	.0008	.0058	.0016	-.0014
#3	4.569	.3493	.9194	.0693	.0002	4.813	.0009	.0067	.0017	.0007

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(ln2306)	(Y_3600)	(Y_2243)
Avg	2.095	.0002	.0057	.0007	-.0015	-.0001	.0072
Stddev	.003	.0003	.0001	.0001	.0008	.0001	.0000
%RSD	.1479	120.4	1.519	16.72	52.53	97.26	.5787
#1	2.099	.0001	.0058	.0006	-.0013	-.0002	.0073
#2	2.095	.0006	.0057	.0007	-.0024	-.0002	.0073
#3	2.093	.0000	.0056	.0009	-.0008	.0000	.0072

Int. Std.	ln2306	Y_2243	Y_3600	Y_3710
Avg	2967.6	8125.5	45281.	2075.5
Stddev	9.2	16.2	135.	10.8
%RSD	.31140	.19960	.29717	.51920
#1	2961.1	8114.4	45176.	2066.0
#2	2963.6	8118.0	45433.	2073.3
#3	2978.2	8144.1	45235.	2087.2

Zoom In
Zoom Out

Sample Name: FA23115-2 Acquired: 4/1/2015 15:08:29 Type: Unk
Method: 60102007_041712(v209) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	-.0002	.0044	-.0001	-.0003	.0000	.0471	.0000	-.0001	.0002	.0032
Stddev	.0006	.0148	.0006	.0000	.000	.0016	.000	.0000	.0001	.0001
%RSD	297.8	339.2	763.3	7.668	1056.	3.377	55.53	27.21	74.91	2.601
#1	-.0007	-.0102	-.0008	-.0003	.0001	.0462	.0000	-.0001	.0002	.0033
#2	-.0003	.0039	.0002	-.0003	.0001	.0489	.0000	-.0001	.0003	.0032
#3	.0004	.0194	.0004	-.0002	-.0002	.0462	.0000	-.0001	.0000	.0031

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(ln2306)	(Y_2243)	(Y_2243)
Avg	.0046	-.0213	.0267	.0001	.0001	-.0080	.0003	.0001	.0016	-.0013
Stddev	.0060	.0162	.0182	.0000	.0001	.0016	.0001	.0001	.0005	.0009
%RSD	130.4	75.92	68.04	19.95	74.47	20.62	44.04	93.68	32.29	69.54
#1	.0088	-.0334	.0116	.0000	.0002	-.0075	.0002	.0000	.0022	-.0013
#2	.0073	-.0029	.0469	.0001	.0001	-.0099	.0004	.0001	.0012	-.0023
#3	-.0023	-.0277	.0217	.0000	.0000	-.0067	.0002	.0003	.0014	-.0004

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(ln2306)	(Y_3600)	(Y_2243)
Avg	.0282	.0002	.0000	.0001	-.0017	-.0002	.0078
Stddev	.0003	.0001	.0001	.0001	.0001	.0001	.0000
%RSD	.9007	87.25	612.2	67.64	8.974	69.04	.1375
#1	.0280	.0002	.0002	.0000	-.0018	-.0001	.0078
#2	.0281	.0000	.0000	.0001	-.0015	-.0003	.0078
#3	.0285	.0002	-.0001	.0002	-.0017	-.0001	.0078

Int. Std.	ln2306	Y_2243	Y_3600	Y_3710
Avg	3026.7	8117.7	45499.	2051.1
Stddev	10.6	9.5	258.	17.6
%RSD	.34995	.11764	.56647	.85859
#1	3016.4	8113.2	45794.	2048.7
#2	3037.6	8128.7	45320.	2034.8
#3	3026.2	8111.2	45383.	2069.8

Zoom In
Zoom Out

Sample Name: FA23115-3 Acquired: 4/1/2015 15:12:39 Type: Unk
Method: 60102007_041712(v209) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	-.0005	.3662	-.0001	.0081	-.0001	9.152	.0000	.0000	.0005	.0000
Stddev	.0006	.0081	.0005	.0002	.0001	.028	.000	.0001	.0002	.000
%RSD	105.9	2.223	534.9	2.553	189.0	.3081	204.0	2711.	44.65	1567.
#1	-.0011	.3729	.0003	.0079	-.0002	9.119	-.0001	-.0001	.0005	.0001
#2	.0000	.3571	-.0007	.0082	.0001	9.170	.0000	.0000	.0007	.0001
#3	-.0006	.3685	.0001	.0082	-.0001	9.166	.0000	.0002	.0003	-.0002

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	1.203	.4212	2.029	.0270	-.0001	19.06	.0001	.0040	.0007	-.0001
Stddev	.013	.0579	.049	.0001	.0001	.08	.0001	.0003	.0004	.0007
%RSD	1.110	13.75	2.395	.3697	117.1	.3952	59.96	7.301	60.56	517.3
#1	1.188	.3641	2.084	.0269	-.0001	18.98	.0002	.0038	.0009	.0007
#2	1.207	.4799	1.995	.0271	-.0002	19.13	.0001	.0043	.0002	-.0008
#3	1.213	.4196	2.006	.0271	.0000	19.06	.0001	.0039	.0011	-.0004

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	2.557	.0001	.0316	.0094	-.0012	.0007	.0083
Stddev	.005	.0002	.0001	.0006	.0005	.0002	.0001
%RSD	.1991	185.5	.2409	6.193	42.60	32.20	1.062
#1	2.554	.0000	.0315	.0092	-.0006	.0007	.0084
#2	2.554	.0003	.0316	.0101	-.0015	.0004	.0082
#3	2.563	-.0001	.0317	.0090	-.0013	.0008	.0084

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	2841.3	7990.0	44614.	2048.4
Stddev	6.6	8.2	23.	12.4
%RSD	.23350	.10294	.05203	.60759
#1	2834.1	7989.9	44595.	2052.1
#2	2847.2	7998.3	44640.	2058.5
#3	2842.6	7981.9	44607.	2034.5

Zoom In
Zoom Out

Sample Name: FA23115-4 Acquired: 4/1/2015 15:16:48 Type: Unk
Method: 60102007_041712(v209) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	.0000	.4292	.0008	.0021	.0001	17.39	.0000	.0007	.0006	-.0002
Stddev	.000	.0138	.0003	.0002	.0001	.08	.000	.0001	.0002	.0001
%RSD	1287.	3.207	36.21	8.178	83.70	.4788	71.58	15.23	35.57	49.00
#1	-.0001	.4433	.0012	.0023	.0002	17.33	.0000	.0008	.0007	-.0001
#2	.0002	.4284	.0006	.0020	.0000	17.49	.0000	.0006	.0008	-.0002
#3	-.0002	.4158	.0007	.0021	.0001	17.37	.0000	.0006	.0004	-.0003

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	.7746	.5001	3.092	.1258	.0000	1.334	.0001	.0000	.0010	.0001
Stddev	.0063	.0233	.024	.0005	.000	.006	.0001	.0003	.0007	.0004
%RSD	.8132	4.650	.7722	.3745	351.5	.4692	110.0	1392.	71.46	814.1
#1	.7739	.5239	3.100	.1259	-.0001	1.337	.0001	-.0003	.0002	-.0001
#2	.7812	.4774	3.111	.1262	.0000	1.339	.0000	.0001	.0015	.0006
#3	.7686	.4991	3.066	.1253	.0000	1.327	.0002	.0003	.0013	-.0003

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	2.360	.0000	.0377	.0136	-.0011	.0010	.0073
Stddev	.004	.000	.0002	.0002	.0003	.0001	.0000
%RSD	.1594	242.2	.4544	1.382	30.44	12.33	.6113
#1	2.358	.0000	.0376	.0134	-.0012	.0010	.0073
#2	2.357	-.0001	.0379	.0136	-.0007	.0008	.0073
#3	2.364	.0000	.0375	.0138	-.0013	.0011	.0073

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	2920.7	8036.7	45281.	2079.8
Stddev	1.5	14.4	256.	13.1
%RSD	.05284	.17875	.56512	.63121
#1	2921.5	8047.0	45116.	2083.9
#2	2921.6	8042.8	45152.	2065.1
#3	2918.9	8020.3	45576.	2090.4

Zoom In
Zoom Out

Sample Name: FA23115-5 Acquired: 4/1/2015 15:20:56 Type: Unk
Method: 60102007_041712(v209) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	-.0003	.2177	-.0003	.0170	.0000	1.865	.0000	.0012	.0002	.0020
Stddev	.0002	.0145	.0003	.0001	.000	.008	.000	.0001	.0002	.0001
%RSD	66.15	6.658	88.68	.3220	484.3	.4419	69.09	6.794	90.19	4.548
#1	-.0005	.2105	-.0004	.0171	.0001	1.863	-.0001	.0012	.0000	.0021
#2	-.0004	.2343	-.0005	.0170	.0000	1.874	.0000	.0011	.0002	.0019
#3	-.0001	.2081	.0000	.0170	-.0001	1.858	.0000	.0013	.0003	.0020

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	.9131	.3482	1.055	.0622	.0000	3.156	.0025	.0032	.0014	-.0004
Stddev	.0110	.0220	.039	.0002	.0001	.008	.0001	.0002	.0003	.0006
%RSD	1.202	6.306	3.710	.3519	333.1	.2396	4.567	6.516	18.24	133.7
#1	.9005	.3235	1.062	.0620	.0000	3.156	.0026	.0030	.0017	-.0008
#2	.9177	.3654	1.091	.0620	.0000	3.164	.0025	.0031	.0014	-.0007
#3	.9210	.3557	1.013	.0624	.0001	3.149	.0023	.0034	.0012	.0002

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	2.375	.0001	.0100	.0056	-.0012	.0009	.0080
Stddev	.001	.0002	.0001	.0009	.0003	.0002	.0000
%RSD	.0429	205.8	.9735	15.22	26.41	17.29	.4097
#1	2.375	-.0001	.0099	.0053	-.0011	.0011	.0079
#2	2.374	.0001	.0101	.0066	-.0009	.0008	.0079
#3	2.376	.0003	.0099	.0050	-.0015	.0008	.0080

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	2994.6	8174.7	45588.	2081.0
Stddev	11.3	11.6	207.	14.5
%RSD	.37713	.14250	.45368	.69812
#1	3006.7	8187.3	45823.	2097.3
#2	2992.6	8172.3	45510.	2076.2
#3	2984.4	8164.4	45432.	2069.4

Zoom In
Zoom Out

Sample Name: FA23115-6 Acquired: 4/1/2015 15:25:05 Type: Unk
Method: 60102007_041712(v209) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	-.0006	.0600	-.0001	.0075	.0001	3.893	.0000	.0000	.0000	.0000
Stddev	.0003	.0112	.0003	.0002	.0001	.024	.000	.0001	.0003	.000
%RSD	45.04	18.74	253.2	3.168	159.7	.6149	66.90	171.3	882.8	63.53
#1	-.0010	.0507	.0002	.0075	.0001	3.866	.0000	.0000	-.0003	-.0001
#2	-.0005	.0725	-.0001	.0078	.0000	3.907	.0000	.0001	.0003	-.0001
#3	-.0004	.0568	-.0004	.0073	.0001	3.908	.0000	.0000	.0001	.0000

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	1.618	.5787	.6188	.0092	.0000	3.664	.0000	.0024	.0014	-.0005
Stddev	.011	.0114	.0297	.0000	.000	.022	.0001	.0005	.0009	.0002
%RSD	.6692	1.967	4.801	.1582	84.59	.5984	274.6	20.98	63.09	30.89
#1	1.605	.5883	.6417	.0092	-.0001	3.643	.0002	.0029	.0016	-.0004
#2	1.622	.5661	.5852	.0092	.0000	3.687	-.0001	.0021	.0022	-.0007
#3	1.626	.5818	.6295	.0092	.0000	3.660	.0000	.0021	.0004	-.0004

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	2.158	-.0001	.0108	.0024	-.0011	.0002	.0070
Stddev	.003	.0002	.0002	.0005	.0003	.0003	.0000
%RSD	.1472	176.8	1.989	22.44	24.39	126.8	.5639
#1	2.162	-.0002	.0106	.0018	-.0014	.0001	.0071
#2	2.159	.0001	.0109	.0027	-.0008	.0006	.0070
#3	2.155	-.0003	.0110	.0027	-.0011	.0000	.0070

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	2957.8	8110.2	45064.	2054.9
Stddev	8.2	14.1	268.	20.8
%RSD	.27813	.17350	.59478	1.0139
#1	2953.8	8109.2	45140.	2078.6
#2	2952.4	8096.7	44766.	2046.6
#3	2967.3	8124.7	45285.	2039.5

Zoom In Zoom Out

Sample Name: FA23115-7 Acquired: 4/1/2015 15:29:13 Type: Unk
Method: 60102007_041712(v209) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	-.0004	.1028	.0004	.0094	.0000	1.499	.0000	.0001	.0001	-.0002
Stddev	.0002	.0134	.0002	.0001	.000	.010	.000	.0000	.0003	.0001
%RSD	48.41	13.04	47.61	1.306	996.7	.6511	589.3	32.49	271.6	34.68
#1	-.0007	.0874	.0003	.0095	.0000	1.493	.0000	.0002	.0004	-.0002
#2	-.0002	.1092	.0007	.0093	.0000	1.494	-.0001	.0001	-.0001	-.0002
#3	-.0004	.1117	.0004	.0093	.0000	1.510	.0001	.0001	.0000	-.0003

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	2.141	.5040	.9057	.0520	.0000	3.663	-.0001	.0007	.0010	-.0005
Stddev	.008	.0315	.0233	.0002	.000	.010	.0001	.0002	.0008	.0000
%RSD	.3926	6.257	2.576	.3061	467.9	.2661	131.5	26.44	72.37	9.636
#1	2.132	.5312	.9106	.0519	.0000	3.664	.0000	.0006	.0019	-.0005
#2	2.146	.5114	.8804	.0519	.0000	3.653	-.0001	.0009	.0008	-.0004
#3	2.146	.4695	.9262	.0521	.0000	3.672	-.0002	.0006	.0004	-.0005

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	2.003	-.0001	.0086	.0016	-.0014	.0001	.0070
Stddev	.004	.0001	.0002	.0004	.0001	.0001	.0000
%RSD	.1741	135.0	1.848	25.02	9.461	75.28	.6809
#1	2.002	-.0002	.0085	.0012	-.0014	.0000	.0069
#2	2.007	-.0001	.0085	.0018	-.0012	.0001	.0070
#3	2.000	.0000	.0088	.0020	-.0015	.0001	.0070

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	2967.1	8099.2	45513.	2065.8
Stddev	1.9	5.1	50.	3.4
%RSD	.06403	.06286	.11015	.16430
#1	2969.3	8104.6	45554.	2062.1
#2	2966.0	8094.5	45526.	2068.7
#3	2966.1	8098.6	45457.	2066.5

Zoom In Zoom Out

Sample Name: FA23115-8 Acquired: 4/1/2015 15:33:22 Type: Unk
Method: 60102007_041712(v209) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	-.0005	.1659	-.0003	.0047	.0001	.3790	.0000	.0000	.0002	-.0004
Stddev	.0006	.0079	.0005	.0002	.0002	.0282	.000	.0001	.0001	.0005
%RSD	123.9	4.792	184.5	4.791	276.2	7.437	170.2	164.1	67.49	116.6
#1	.0002	.1610	-.0005	.0045	-.0001	.3727	.0000	.0000	.0001	-.0006
#2	-.0008	.1616	.0003	.0047	.0001	.3545	-.0001	.0001	.0002	-.0007
#3	-.0008	.1751	-.0007	.0050	.0002	.4098	.0000	.0000	.0003	.0001

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	.1943	.1312	.8060	.0099	-.0001	3.024	.0002	.0021	.0014	.0003
Stddev	.0026	.0414	.0236	.0000	.0002	.024	.0001	.0006	.0002	.0007
%RSD	1.346	31.58	2.932	.4334	196.6	.7778	33.15	27.19	14.32	210.9
#1	.1928	.0984	.8176	.0098	-.0002	3.020	.0003	.0019	.0015	.0011
#2	.1927	.1175	.8215	.0099	-.0002	3.003	.0002	.0016	.0015	-.0001
#3	.1973	.1778	.7788	.0099	.0001	3.049	.0002	.0027	.0011	.0000

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	1.455	.0000	.0056	.0021	-.0013	.0000	.0062
Stddev	.003	.0001	.0001	.0000	.0003	.0003	.0000
%RSD	.2144	3612.	2.635	1.592	27.36	669.9	.2982
#1	1.454	-.0001	.0056	.0021	-.0009	.0002	.0062
#2	1.453	.0001	.0055	.0021	-.0015	-.0003	.0062
#3	1.459	.0000	.0057	.0021	-.0014	.0002	.0062

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	2998.9	8156.9	45956.	2070.8
Stddev	5.5	4.3	205.	22.2
%RSD	.18206	.05260	.44586	1.0721
#1	2994.8	8154.1	45845.	2069.8
#2	2996.9	8161.8	45831.	2093.5
#3	3005.1	8154.8	46193.	2049.1

Zoom In Zoom Out

Sample Name: FA23115-9 Acquired: 4/1/2015 15:37:31 Type: Unk
Method: 60102007_041712(v209) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	-.0003	3.315	.0002	.0065	-.0001	9.834	.0000	.0001	.0027	.0012
Stddev	.0002	.013	.0006	.0001	.0001	.014	.000	.0001	.0001	.0003
%RSD	59.62	.3764	353.0	2.140	91.62	.1415	260.5	56.24	3.724	22.71
#1	-.0005	3.301	.0001	.0063	.0000	9.837	.0000	.0001	.0028	.0012
#2	-.0002	3.318	-.0004	.0066	-.0001	9.846	.0000	.0002	.0028	.0015
#3	-.0002	3.325	.0007	.0066	-.0002	9.819	.0000	.0001	.0026	.0010

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	5.808	.2240	1.079	.0332	.0001	5.684	.0011	.0033	.0007	-.0004
Stddev	.008	.0172	.018	.0002	.0000	.025	.0001	.0004	.0004	.0007
%RSD	.1317	7.692	1.631	.5916	69.08	.4443	9.457	13.00	56.33	185.9
#1	5.799	.2044	1.060	.0330	.0001	5.660	.0011	.0032	.0005	.0004
#2	5.812	.2365	1.083	.0333	.0001	5.711	.0010	.0028	.0012	-.0008
#3	5.813	.2313	1.094	.0333	.0000	5.681	.0012	.0037	.0005	-.0007

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	4.278	-.0001	.0264	.0892	-.0011	.0038	.0105
Stddev	.016	.0003	.0000	.0008	.0005	.0002	.0001
%RSD	.3638	475.6	.0558	.9013	42.60	5.534	.4825
#1	4.296	-.0003	.0264	.0884	-.0013	.0037	.0104
#2	4.269	.0002	.0264	.0892	-.0014	.0040	.0105
#3	4.269	-.0001	.0265	.0900	-.0006	.0036	.0105

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	2904.6	8120.6	45380.	2083.0
Stddev	4.2	10.8	89.	16.7
%RSD	.14323	.13300	.19689	.80054
#1	2901.3	8121.5	45366.	2098.0
#2	2909.3	8131.0	45298.	2085.9
#3	2903.1	8109.4	45475.	2065.0

Zoom In Zoom Out

Sample Name: CCV Acquired: 4/1/2015 15:41:39 Type: QC
Method: 60102007_041712(v209) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2495	40.38	2.009	2.007	2.023	40.62	2.037	2.034	2.036	2.012
Stddev	.0011	.19	.006	.007	.010	.24	.004	.003	.004	.006
%RSD	.4514	.4799	.3059	.3691	.5061	.5902	.1984	.1657	.1920	.2780
#1	.2494	40.17	2.002	2.000	2.011	40.36	2.032	2.030	2.036	2.007
#2	.2484	40.43	2.009	2.007	2.026	40.67	2.039	2.036	2.032	2.011
#3	.2506	40.55	2.015	2.014	2.031	40.83	2.039	2.036	2.040	2.018
Check ?	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass
Value										
Range										

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	40.66	40.38	40.27	2.037	2.024	40.83	2.036	1.995	2.009	2.018
Stddev	.28	.20	.26	.004	.011	.18	.005	.003	.005	.005
%RSD	.6945	.4882	.6353	.2162	.5255	.4400	.2302	.1623	.2316	.2386
#1	40.35	40.15	39.98	2.041	2.012	40.63	2.030	1.993	2.004	2.012
#2	40.73	40.52	40.41	2.036	2.027	40.88	2.039	1.999	2.010	2.022
#3	40.90	40.47	40.43	2.033	2.032	40.98	2.038	1.995	2.013	2.019
Check ?	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass
Value										
Range										

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.069	2.023	2.006	2.049	2.023	2.008	2.035
Stddev	.005	.005	.007	.002	.003	.001	.005
%RSD	.2427	.2620	.3693	.0898	.1662	.0421	.2643
#1	2.063	2.017	1.997	2.047	2.019	2.007	2.029
#2	2.069	2.026	2.010	2.049	2.024	2.008	2.039
#3	2.074	2.026	2.010	2.051	2.026	2.009	2.037
Check ?	None	Chk	Pass	Chk	Pass	Chk	Pass
Value							
Range							

Zoom In
Zoom Out

Sample Name: CCV Acquired: 4/1/2015 15:41:39 Type: QC
Method: 60102007_041712(v209) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2524.6	7709.1	42942.	2041.6
Stddev	8.0	20.8	46.	23.3
%RSD	.31754	.26928	.10613	1.1389
#1	2530.1	7728.7	42938.	2068.1
#2	2515.4	7687.3	42989.	2031.9
#3	2528.3	7711.3	42898.	2024.8

Zoom In
Zoom Out

Sample Name: CCB Acquired: 4/1/2015 15:45:45 Type: QC
Method: 60102007_041712(v209) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0004	.0012	.0010	.0005	.0006	.0100	.0002	.0001	.0008
Stddev	.0001	.0192	.0004	.0002	.0001	.0023	.0001	.0001	.0004
%RSD	16.94	1660.	45.05	31.92	21.32	23.49	52.06	81.47	50.51
#1	-.0003	.0212	.0015	.0005	.0005	.0073	.0004	.0002	.0011
#2	-.0004	-.0171	.0008	.0003	.0006	.0110	.0002	.0002	.0008
#3	-.0004	-.0006	.0006	.0006	.0007	.0116	.0001	.0000	.0004
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0006	.0384	.0408	.0511	.0006	F.0022	.0051	.0005	.0003
Stddev	.0002	.0088	.0122	.0233	.0001	.0006	.0060	.0002	.0004
%RSD	36.59	22.83	29.94	45.48	9.162	24.87	118.1	45.28	123.5
#1	.0009	.0484	.0420	.0396	.0007	.0028	-.0008	.0008	.0007
#2	.0004	.0347	.0523	.0359	.0006	.0022	.0048	.0004	.0003
#3	.0007	.0321	.0280	.0779	.0006	.0017	.0113	.0004	-.0001
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit						.0010			
Low Limit						-.0010			

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F.0023	.0001	.0032	.0008	.0005	.0020	.0008	.0005	.0005
Stddev	.0003	.0011	.0002	.0001	.0001	.0002	.0005	.0003	.0001
%RSD	11.37	924.1	5.352	14.85	23.87	10.97	55.86	56.04	29.23
#1	.0026	-.0003	.0033	.0007	.0005	.0022	.0013	.0009	.0006
#2	.0021	-.0007	.0030	.0008	.0004	.0020	.0004	.0002	.0004
#3	.0022	.0014	.0032	.0009	.0006	.0017	.0007	.0005	.0004
Check ?	Chk Fail	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	.0020								
Low Limit	-.0020								

Zoom In
Zoom Out

Sample Name: CCB Acquired: 4/1/2015 15:45:45 Type: QC
Method: 60102007_041712(v209) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2989.2	8021.4	44878.	2067.1
Stddev	10.1	28.3	18.	21.9
%RSD	.33795	.35311	.04022	1.0593
#1	2996.7	8052.3	44870.	2044.3
#2	2977.7	7996.7	44899.	2068.8
#3	2993.2	8015.1	44866.	2088.0

Zoom In
Zoom Out

Sample Name: FA23115-10 Acquired: 4/1/2015 15:49:57 Type: Unk
Method: 60102007_041712(v209) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	-.0002	.1624	.0003	.0059	.0000	46.34	.0001	-.0001	.0005	.0000
Stddev	.0002	.0032	.0006	.0000	.000	.04	.0000	.0001	.0001	.0002
%RSD	97.79	1.973	172.1	.5499	449.6	.0808	17.32	79.72	21.83	1023.
#1	-.0001	.1660	.0003	.0059	.0000	46.35	.0001	.0000	.0006	-.0001
#2	.0000	.1611	-.0003	.0059	-.0001	46.37	.0001	-.0002	.0006	-.0001
#3	-.0004	.1600	.0009	.0059	.0000	46.30	.0001	-.0002	.0004	.0003

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	1.482	.3681	3.950	.0581	.0000	11.23	.0003	.0000	.0009	.0001
Stddev	.010	.0422	.023	.0002	.0001	.01	.0001	.001	.0009	.0011
%RSD	.6982	11.45	.5711	.3298	5031.	.1295	48.76	1385.	92.68	1267.
#1	1.493	.4157	3.966	.0578	.0001	11.23	.0003	-.0007	.0019	.0001
#2	1.480	.3529	3.960	.0582	-.0001	11.24	.0001	.0000	.0008	.0012
#3	1.473	.3356	3.924	.0582	.0000	11.21	.0003	.0006	.0001	-.0010

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	1.833	.0002	.1226	.0049	-.0007	.0003	.0093
Stddev	.003	.0002	.0001	.0004	.0006	.0001	.0000
%RSD	.1392	96.49	.0730	7.638	82.73	30.26	.2832
#1	1.836	.0001	.1227	.0044	-.0014	.0004	.0093
#2	1.831	.0004	.1225	.0051	-.0005	.0004	.0093
#3	1.834	.0001	.1226	.0051	-.0002	.0002	.0093

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	2803.3	7888.2	44280.	2059.0
Stddev	4.4	7.9	131.	13.7
%RSD	.15547	.10040	.29599	.66444
#1	2806.1	7886.7	44429.	2048.1
#2	2798.3	7881.1	44231.	2074.4
#3	2805.5	7896.7	44181.	2054.6

Zoom In Zoom Out

Sample Name: FA23115-11 Acquired: 4/1/2015 15:54:05 Type: Unk
Method: 60102007_041712(v209) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	-.0003	.3740	.0001	.0040	.0000	27.95	-.0001	-.0002	.0005	.0114
Stddev	.0002	.0142	.0005	.0005	.000	.16	.0000	.0001	.0001	.0001
%RSD	84.93	3.796	466.5	11.28	264.5	.5822	46.53	48.91	29.98	1.035
#1	.0000	.3903	-.0002	.0037	.0000	27.93	-.0001	-.0001	.0005	.0113
#2	-.0004	.3677	.0007	.0039	-.0001	28.13	.0000	-.0002	.0006	.0113
#3	-.0004	.3641	-.0002	.0045	.0000	27.80	.0000	-.0002	.0003	.0115

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	.5410	1.084	4.079	.0075	.0002	1.698	.0050	.0001	.0008	-.0007
Stddev	.0049	.031	.062	.0000	.0001	.010	.0002	.0005	.0007	.0000
%RSD	.9027	2.827	1.525	.4649	57.99	.5999	4.512	352.1	86.10	2.371
#1	.5418	1.089	4.068	.0075	.0003	1.710	.0048	.0007	.0001	-.0007
#2	.5454	1.111	4.146	.0075	.0001	1.690	.0050	-.0004	.0015	-.0007
#3	.5358	1.050	4.023	.0075	.0002	1.696	.0053	.0002	.0007	-.0007

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	4.532	-.0001	.0522	.0112	-.0006	.0005	.0078
Stddev	.013	.0003	.0003	.0011	.0005	.0002	.0001
%RSD	.2820	270.0	.5090	9.546	85.75	46.60	.9317
#1	4.545	.0003	.0521	.0103	-.0010	.0002	.0078
#2	4.533	-.0004	.0525	.0124	-.0008	.0005	.0079
#3	4.519	-.0003	.0519	.0109	.0000	.0007	.0078

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	2907.6	8039.0	45080.	2070.4
Stddev	4.8	16.0	146.	17.8
%RSD	.16359	.19850	.32375	.85743
#1	2902.1	8023.8	44920.	2062.5
#2	2910.0	8037.4	45206.	2057.9
#3	2910.7	8055.6	45113.	2090.7

Zoom In Zoom Out

Sample Name: FA23115-12 Acquired: 4/1/2015 15:58:12 Type: Unk
Method: 60102007_041712(v209) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	-.0004	7.744	.0006	.0235	-.0001	1.242	.0000	.0003	.0053	.0015
Stddev	.0004	.036	.0001	.0005	.0001	.013	.000	.0001	.0002	.0003
%RSD	99.33	.4623	17.28	2.320	86.89	1.007	551.4	56.78	3.693	17.80
#1	-.0005	7.747	.0005	.0238	-.0002	1.252	.0000	.0002	.0052	.0012
#2	.0001	7.779	.0005	.0239	-.0001	1.248	.0000	.0002	.0051	.0016
#3	-.0007	7.708	.0007	.0229	.0000	1.228	.0000	.0004	.0055	.0016

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	7.636	.4177	1.200	.0635	.0004	5.904	.0029	.0238	.0006	.0001
Stddev	.006	.0148	.029	.0003	.0001	.020	.0001	.0002	.0008	.0015
%RSD	.0787	3.532	2.372	.4126	13.90	.3355	2.132	.9509	143.0	1074.
#1	7.634	.4144	1.172	.0634	.0004	5.905	.0029	.0235	.0007	-.0015
#2	7.643	.4048	1.229	.0638	.0003	5.923	.0029	.0240	-.0003	.0005
#3	7.631	.4338	1.197	.0634	.0004	5.884	.0028	.0239	.0014	.0015

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	6.778	.0002	.0073	.1917	-.0007	.0086	.0130
Stddev	.015	.0002	.0001	.0011	.0003	.0001	.0000
%RSD	.2183	72.86	1.056	.5682	42.02	1.363	.2217
#1	6.789	.0004	.0074	.1910	-.0010	.0088	.0130
#2	6.761	.0000	.0072	.1912	-.0007	.0086	.0130
#3	6.783	.0003	.0074	.1930	-.0004	.0086	.0130

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	2921.4	8214.6	45880.	2123.1
Stddev	6.4	18.3	143.	14.4
%RSD	.21968	.22313	.31129	.67873
#1	2923.2	8217.3	45908.	2129.5
#2	2926.8	8231.5	45725.	2106.7
#3	2914.3	8195.1	46006.	2133.3

Zoom In Zoom Out

Sample Name: FA23115-14 Acquired: 4/1/2015 16:02:20 Type: Unk
Method: 60102007_041712(v209) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	-.0003	.3323	.0005	.0122	.0000	1.908	.0001	.0003	.0042	.0030
Stddev	.0000	.0133	.0006	.0003	.000	.005	.0000	.0000	.0002	.0003
%RSD	6.915	3.995	133.3	2.676	826.0	.2896	27.43	7.797	4.526	11.19
#1	-.0003	.3171	.0010	.0119	-.0001	1.901	.0001	.0003	.0041	.0026
#2	-.0003	.3416	.0005	.0125	.0001	1.911	.0001	.0003	.0044	.0032
#3	-.0003	.3383	-.0002	.0122	.0000	1.911	.0001	.0004	.0042	.0032

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	4.712	.3021	1.443	.0639	.0007	3.642	.0025	.0330	.0010	-.0015
Stddev	.032	.0116	.042	.0001	.0001	.013	.0004	.0002	.0005	.0013
%RSD	.6797	3.848	2.882	.1840	14.19	.3536	14.58	.7181	44.64	89.05
#1	4.735	.3153	1.481	.0640	.0006	3.640	.0023	.0328	.0006	-.0027
#2	4.725	.2936	1.451	.0640	.0007	3.655	.0030	.0329	.0015	-.0001
#3	4.675	.2974	1.399	.0638	.0007	3.630	.0024	.0333	.0010	-.0017

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	2.189	.0001	.0126	.0048	-.0011	.0006	.0132
Stddev	.004	.0001	.0001	.0002	.0008	.0002	.0001
%RSD	.1896	58.74	.6338	3.691	75.42	37.88	.8490
#1	2.185	.0001	.0126	.0047	-.0019	.0008	.0131
#2	2.189	.0002	.0125	.0047	-.0010	.0004	.0133
#3	2.194	.0000	.0126	.0050	-.0003	.0005	.0133

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	2960.6	8130.3	45845.	2073.4
Stddev	5.5	6.6	347.	20.3
%RSD	.18411	.08126	.75706	.97991
#1	2966.8	8137.4	45446.	2095.0
#2	2958.6	8129.1	46073.	2054.6
#3	2956.4	8124.3	46017.	2070.7

Zoom In Zoom Out

Sample Name: MP28738-MB1 Acquired: 4/1/2015 16:06:30 Type: QC
Method: 60102007_041712(v209) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0006	.0021	-.0001	-.0002	.0000	.0031	.0000	-.0001	-.0001	-.0001
Stddev	.0002	.0136	.0001	.0004	.0000	.0052	.000	.0001	.0001	.0002
%RSD	26.99	655.6	69.96	178.7	130.0	168.1	135.7	71.17	98.55	146.4
#1	-.0008	-.0123	-.0001	-.0005	.0001	-.0019	-.0001	-.0001	-.0001	-.0003
#2	-.0005	.0038	.0000	.0002	.0001	.0028	.0000	-.0002	-.0002	.0001
#3	-.0006	.0147	-.0002	-.0004	.0000	.0084	.0000	-.0001	.0000	-.0002
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0052	-.0160	-.0064	.0000	.0000	-.0327	-.0001	.0004	.0014	-.0007
Stddev	.0027	.0192	.0082	.0000	.000	.0044	.0001	.0008	.0003	.0004
%RSD	51.83	119.8	129.3	391.9	161.2	13.52	264.5	205.1	21.74	56.64
#1	.0062	.0011	.0028	.0000	.0000	-.0302	.0001	-.0001	.0016	-.0002
#2	.0021	-.0368	-.0087	.0000	-.0001	-.0302	-.0002	.0013	.0011	-.0010
#3	.0072	-.0125	-.0131	.0000	-.0001	-.0379	-.0001	.0000	.0016	-.0008
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0208	-.0001	-.0001	.0000	-.0017	-.0003	.0007
Stddev	.0002	.0000	.0001	.000	.0006	.0001	.0000
%RSD	1.189	18.69	127.6	176.8	33.13	27.68	2.230
#1	.0210	-.0001	-.0002	.0000	-.0023	-.0003	.0006
#2	.0205	-.0001	.0000	-.0001	-.0017	-.0002	.0007
#3	.0208	-.0001	.0000	.0000	-.0011	-.0003	.0007
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Zoom In
Zoom Out

Sample Name: MP28738-MB1 Acquired: 4/1/2015 16:06:30 Type: QC
Method: 60102007_041712(v209) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2990.4	8068.5	45734.	2049.8
Stddev	15.8	32.3	280.	18.7
%RSD	.52730	.40092	.61297	.91209
#1	3000.5	8093.2	45857.	2054.0
#2	2998.5	8080.4	45932.	2029.3
#3	2972.2	8031.9	45413.	2066.0

Zoom In
Zoom Out

Sample Name: MP28738-B1 Acquired: 4/1/2015 16:10:41 Type: QC
Method: 60102007_041712(v209) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0494	27.96	2.036	2.071	.0526	26.21	.0519	.5229	.2130	.2606
Stddev	.0004	.07	.007	.002	.0002	.02	.0003	.0024	.0005	.0001
%RSD	.8028	.2561	.3240	.0929	.3821	.0849	.4954	.4543	.2338	.0541
#1	.0498	28.04	2.039	2.070	.0524	26.22	.0519	.5237	.2126	.2604
#2	.0493	27.89	2.041	2.073	.0526	26.23	.0521	.5247	.2129	.2607
#3	.0490	27.96	2.029	2.071	.0528	26.19	.0516	.5202	.2135	.2605
Check ?	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass
Value																						
Range																						

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	26.95	25.67	25.63	.5279	.5352	26.40	.5290	.4982	.5124	2.029
Stddev	.06	.05	.05	.0002	.0018	.06	.0021	.0028	.0006	.004
%RSD	.2382	.2074	.2065	.0316	.3416	.2312	.4035	.5700	.1142	.2082
#1	26.97	25.71	25.59	.5279	.5356	26.46	.5303	.5006	.5130	2.029
#2	27.01	25.61	25.60	.5281	.5369	26.39	.5303	.4990	.5120	2.033
#3	26.88	25.68	25.69	.5278	.5333	26.34	.5266	.4951	.5121	2.025
Check ?	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass
Value																						
Range																						

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0341	.5639	.5400	.5464	2.008	.5023	.5227
Stddev	.0003	.0026	.0009	.0009	.010	.0007	.0022
%RSD	.9674	.4553	.1680	.1682	.4824	.1320	.4163
#1	.0343	.5648	.5410	.5460	2.016	.5019	.5237
#2	.0343	.5660	.5397	.5474	2.012	.5030	.5243
#3	.0337	.5611	.5392	.5457	1.997	.5018	.5202
Check ?	None	Chk	Pass	None	None	Chk	Pass	Chk	Pass	Chk	Pass
Value											
Range											

Zoom In
Zoom Out

Sample Name: MP28738-B1 Acquired: 4/1/2015 16:10:41 Type: QC
Method: 60102007_041712(v209) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2639.4	7780.9	43525.	2048.4
Stddev	16.1	39.4	80.	6.8
%RSD	.60830	.50627	.18344	.33438
#1	2627.9	7761.5	43615.	2051.9
#2	2632.4	7755.1	43500.	2040.5
#3	2657.7	7826.3	43461.	2052.8

Zoom In
Zoom Out

Sample Name: FA23139-1 Acquired: 4/1/2015 16:14:40 Type: Unk
Method: 60102007_041712(v209) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)
Avg	-.0009	3.968	.0022	.1940	.0000	F629.9	-.0005	.0015	.1598
Stddev	.0003	.037	.0002	.0007	.000	10.5	.0000	.0001	.0006
%RSD	38.30	.9265	7.052	.3416	90.63	1.673	9.551	5.807	.3459
#1	-.0005	3.947	.0020	.1943	.0000	641.5	-.0005	.0016	.1600
#2	-.0012	4.011	.0023	.1944	.0000	620.9	-.0004	.0014	.1601
#3	-.0009	3.947	.0022	.1932	.0000	627.3	-.0004	.0015	.1591

Elem	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
IS Ref	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)
Avg	.0086	4.934	F89.81	5.304	.1151	.0355	47.03	.0436	-.0016
Stddev	.0002	.022	.54	.040	.0003	.0002	.21	.0001	.0003
%RSD	2.677	.4535	.6057	.7536	.2339	.6473	.4415	.2392	16.50
#1	.0088	4.952	90.41	5.345	.1148	.0358	47.24	.0437	-.0014
#2	.0088	4.942	89.68	5.302	.1151	.0355	47.01	.0436	-.0015
#3	.0084	4.909	89.35	5.265	.1154	.0353	46.83	.0435	-.0019

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	.0027	.0015	16.76	-.0002	1.128	.2413	-.0030	.0095	.1541
Stddev	.0006	.0010	.02	.0003	.005	.0006	.0003	.0003	.0002
%RSD	23.33	68.88	.1255	120.4	.4093	.2615	11.54	3.163	.1060
#1	.0034	.0018	16.76	.0001	1.132	.2406	-.0029	.0096	.1539
#2	.0024	.0023	16.74	-.0003	1.130	.2417	-.0028	.0097	.1540
#3	.0023	.0003	16.78	-.0005	1.123	.2417	-.0034	.0092	.1543

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	2354.6	7076.4	39810.	2035.9
Stddev	2.0	1.6	120.	15.9
%RSD	.08423	.02323	.30226	.78072
#1	2353.2	7074.8	39708.	2017.6
#2	2353.7	7076.4	39943.	2046.3
#3	2356.8	7078.1	39779.	2043.7

Zoom In
Zoom Out

Sample Name: MP28738-D1 Acquired: 4/1/2015 16:18:53 Type: Unk
Method: 60102007_041712(v209) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)
Avg	-.0009	3.956	.0024	.1938	-.0001	F628.6	-.0004	.0015	.1609
Stddev	.0009	.035	.0003	.0004	.0001	8.4	.0000	.0001	.0026
%RSD	103.2	.8957	14.10	.1997	115.6	1.335	6.122	9.204	1.627
#1	-.0005	3.938	.0026	.1939	.0000	631.1	-.0004	.0014	.1639
#2	-.0002	3.933	.0020	.1934	-.0001	619.3	-.0004	.0014	.1596
#3	-.0019	3.997	.0026	.1942	-.0001	635.5	-.0004	.0016	.1591

Elem	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
IS Ref	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)
Avg	.0087	4.911	F89.73	5.349	.1147	.0351	46.91	.0433	-.0032
Stddev	.0006	.023	.11	.018	.0006	.0001	.06	.0000	.0006
%RSD	6.480	.4717	.1224	.3432	.5611	.2903	.1380	.1056	17.31
#1	.0082	4.899	89.68	5.361	.1140	.0351	46.95	.0433	-.0029
#2	.0093	4.896	89.86	5.328	.1150	.0351	46.95	.0434	-.0029
#3	.0085	4.937	89.66	5.358	.1152	.0350	46.84	.0433	-.0038

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	.0026	.0004	16.63	.0000	1.128	.2402	-.0025	.0092	.1538
Stddev	.0009	.0009	.03	.000	.000	.0007	.0005	.0004	.0003
%RSD	34.48	215.8	.1743	2733.	.0268	.2933	19.46	4.804	.2136
#1	.0019	-.0005	16.64	-.0003	1.128	.2394	-.0021	.0087	.1542
#2	.0023	.0014	16.65	.0001	1.129	.2404	-.0030	.0093	.1536
#3	.0036	.0004	16.60	.0002	1.128	.2407	-.0023	.0096	.1537

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	2343.7	7061.5	39590.	2004.1
Stddev	9.1	13.0	320.	21.9
%RSD	.38946	.18432	.80849	1.0927
#1	2344.7	7050.7	39941.	2024.2
#2	2352.4	7075.9	39313.	2007.4
#3	2334.2	7057.9	39517.	1980.8

Zoom In
Zoom Out

Sample Name: MP28738-SD1 Acquired: 4/1/2015 16:23:06 Type: Unk
Method: 60102007_041712(v209) Mode: CONC Corr. Factor: 5.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	-.0020	3.803	.0006	.1878	.0003	639.1	-.0004	.0013	.1560	.0087
Stddev	.0013	.026	.0021	.0023	.0004	3.5	.0001	.0005	.0003	.0009
%RSD	63.16	.6902	342.8	1.226	139.9	.5476	26.09	38.17	.2139	10.36
#1	-.0021	3.809	.0010	.1898	-.0001	641.4	-.0003	.0008	.1556	.0097
#2	-.0032	3.775	-.0017	.1882	.0003	640.8	-.0003	.0013	.1563	.0079
#3	-.0007	3.826	.0025	.1853	.0007	635.1	-.0004	.0018	.1561	.0086

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	4.836	86.26	5.341	.1141	.0319	45.64	.0431	-.0084	.0047	-.0082
Stddev	.053	.47	.122	.0004	.0008	.26	.0004	.0032	.0018	.0012
%RSD	1.090	.5440	2.280	.3699	2.569	.5760	.8375	37.41	38.23	14.83
#1	4.801	86.37	5.387	.1139	.0311	45.83	.0431	-.0048	.0043	-.0071
#2	4.896	86.67	5.434	.1137	.0320	45.76	.0427	-.0106	.0032	-.0095
#3	4.810	85.75	5.204	.1145	.0327	45.34	.0434	-.0100	.0067	-.0079

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	16.03	-.0005	1.093	.2397	-.0054	.0084	.1534
Stddev	.02	.0004	.006	.0007	.0028	.0004	.0005
%RSD	.1037	83.18	.5211	.2854	52.53	4.350	.3511
#1	16.05	-.0008	1.098	.2390	-.0054	.0084	.1530
#2	16.02	.0000	1.095	.2396	-.0026	.0080	.1532
#3	16.03	-.0006	1.087	.2404	-.0083	.0088	.1540

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	2689.9	7714.6	43349.	2058.7
Stddev	6.1	14.5	264.	9.7
%RSD	.22729	.18846	.60928	.47075
#1	2694.6	7726.4	43579.	2051.8
#2	2692.1	7719.1	43408.	2054.4
#3	2683.0	7698.4	43061.	2069.8

Zoom In
Zoom Out

Sample Name: MP28738-PS1 Acquired: 4/1/2015 16:27:13 Type: Unk
Method: 60102007_041712(v209) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)
Avg	.0532	6.613	.1201	.4634	.0551	F616.2	.0551	.0568	.2129
Stddev	.0001	.035	.0009	.0023	.0008	4.3	.0001	.0003	.0008
%RSD	.1058	.5304	.7113	.5030	1.445	.7040	.1453	.4693	.3826
#1	.0532	6.645	.1192	.4659	.0557	613.5	.0550	.0567	.2131
#2	.0532	6.620	.1202	.4631	.0556	621.2	.0552	.0566	.2120
#3	.0533	6.576	.1209	.4613	.0542	613.9	.0551	.0571	.2136

Elem	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
IS Ref	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)
Avg	.1229	7.907	F96.75	10.01	.1695	.1462	56.74	.1541	.0491
Stddev	.0009	.063	.53	.11	.0007	.0004	.29	.0004	.0004
%RSD	.6981	.7988	.5463	1.085	.4280	.2834	.5138	.2372	.9122
#1	.1223	7.979	97.35	10.10	.1696	.1457	57.07	.1540	.0488
#2	.1239	7.862	96.52	9.886	.1687	.1464	56.63	.1538	.0488
#3	.1225	7.879	96.37	10.03	.1701	.1465	56.51	.1545	.0496

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	.1189	.1160	16.35	.0544	1.149	.3461	.1011	.0642	.4309
Stddev	.0015	.0007	.04	.0002	.006	.0016	.0011	.0004	.0007
%RSD	1.280	.6020	.2562	.2997	.5314	.4738	1.048	.5458	.1654
#1	.1178	.1161	16.31	.0544	1.156	.3459	.0999	.0643	.4302
#2	.1207	.1167	16.36	.0546	1.148	.3446	.1016	.0638	.4308
#3	.1184	.1153	16.39	.0543	1.144	.3479	.1018	.0644	.4317

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	2334.2	7065.9	39689.	2033.2
Stddev	1.5	8.6	338.	12.0
%RSD	.06292	.12236	.85125	.58845
#1	2334.1	7072.3	39599.	2026.7
#2	2335.7	7069.2	40063.	2047.0
#3	2332.7	7056.0	39406.	2025.9

Zoom In
Zoom Out

Sample Name: CCV Acquired: 4/1/2015 16:31:24 Type: QC
Method: 60102007_041712(v209) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2507	40.91	2.041	2.030	2.045	41.08	2.069	2.064	2.053	2.027
Stddev	.0006	.16	.003	.008	.008	.21	.001	.002	.005	.002
%RSD	.2332	.3954	.1453	.4086	.3876	.5039	.0617	.0765	.2236	.0910
#1	.2503	40.75	2.039	2.021	2.038	40.95	2.068	2.063	2.048	2.025
#2	.2514	41.08	2.044	2.037	2.053	41.32	2.069	2.065	2.057	2.029
#3	.2504	40.91	2.040	2.032	2.045	40.98	2.070	2.066	2.055	2.026
Check ?	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass
Value										
Range										

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	40.98	40.80	40.54	2.046	2.051	41.12	2.061	2.018	2.041	2.049
Stddev	.12	.21	.26	.021	.009	.16	.002	.003	.005	.004
%RSD	.3013	.5064	.6345	1.016	.4480	.3869	.1146	.1635	.2420	.1927
#1	40.88	40.62	40.36	2.023	2.041	41.00	2.059	2.015	2.038	2.053
#2	41.12	41.02	40.83	2.051	2.053	41.30	2.060	2.017	2.047	2.046
#3	40.95	40.75	40.42	2.064	2.059	41.06	2.063	2.022	2.038	2.048
Check ?	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass
Value										
Range										

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.100	2.057	2.035	2.062	2.041	2.030	2.062
Stddev	.001	.002	.007	.007	.001	.004	.002
%RSD	.0490	.1021	.3599	.3338	.0708	.2140	.0908
#1	2.100	2.056	2.027	2.055	2.039	2.025	2.061
#2	2.100	2.056	2.041	2.068	2.042	2.033	2.061
#3	2.098	2.059	2.037	2.061	2.041	2.031	2.065
Check ?	None	Chk	Pass	Chk	Pass	Chk	Pass
Value							
Range							

Zoom In
Zoom Out

Sample Name: CCV Acquired: 4/1/2015 16:31:24 Type: QC
Method: 60102007_041712(v209) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2510.7	7656.1	42918.	2042.3
Stddev	7.4	16.9	238.	16.8
%RSD	.29379	.22031	.55382	.82160
#1	2517.6	7669.6	43190.	2044.7
#2	2511.5	7661.5	42750.	2024.4
#3	2502.9	7637.2	42813.	2057.7

Zoom In
Zoom Out

Sample Name: CCB Acquired: 4/1/2015 16:35:31 Type: QC
Method: 60102007_041712(v209) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0003	-.0020	.0005	.0002	.0003	.0102	.0002	.0001	.0007
Stddev	.0002	.0108	.0003	.0003	.0001	.0005	.0000	.0000	.0002
%RSD	74.75	538.6	59.28	188.5	38.41	4.670	12.81	21.19	28.18
#1	-.0005	.0016	.0002	.0001	.0004	.0104	.0002	.0001	.0009
#2	-.0002	-.0142	.0009	.0005	.0002	.0097	.0002	.0001	.0005
#3	-.0001	.0065	.0006	-.0001	.0002	.0106	.0001	.0001	.0006
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0002	.0330	.0637	.0389	.0003	F.0019	-.0062	.0005	.0010
Stddev	.0004	.0061	.0136	.0288	.0000	.0004	.0061	.0001	.0001
%RSD	201.8	18.41	21.38	73.97	10.51	22.87	98.40	18.52	8.641
#1	-.0002	.0397	.0749	.0345	.0003	.0024	-.0126	.0006	.0010
#2	.0003	.0314	.0485	.0697	.0004	.0019	-.0005	.0005	.0010
#3	.0005	.0278	.0676	.0126	.0004	.0015	-.0055	.0004	.0009
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit						.0010			
Low Limit						-.0010			

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F.0024	-.0005	.0028	.0007	.0002	.0015	-.0001	.0001	.0004
Stddev	.0007	.0013	.0004	.0002	.0001	.0000	.0003	.0001	.0000
%RSD	27.96	241.4	13.54	33.23	36.24	3.131	418.2	139.6	4.990
#1	.0028	-.0019	.0031	.0010	.0002	.0015	-.0004	.0000	.0004
#2	.0028	.0006	.0028	.0008	.0001	.0015	.0000	.0000	.0004
#3	.0016	-.0002	.0024	.0005	.0002	.0014	.0002	.0002	.0004
Check ?	Chk Fail	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	.0020								
Low Limit	-.0020								

Zoom In
Zoom Out

Sample Name: CCB Acquired: 4/1/2015 16:35:31 Type: QC
Method: 60102007_041712(v209) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3025.7	8147.8	45608.	2077.8
Stddev	2.9	3.6	87.	10.6
%RSD	.09464	.04454	.19027	.50814
#1	3027.5	8150.2	45603.	2065.6
#2	3027.2	8149.5	45523.	2083.5
#3	3022.4	8143.6	45697.	2084.3

Zoom In
Zoom Out

Sample Name: MP28738-S1 Acquired: 4/1/2015 16:39:44 Type: Unk
Method: 60102007_041712(v209) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)
Avg	.0526	32.53	2.187	2.326	.0530	F648.5	.0505	.5118	.3713
Stddev	.0005	.11	.001	.005	.0004	2.3	.0001	.0001	.0008
%RSD	.9855	.3269	.0486	.2345	.6946	.3480	.1144	.0152	.2223
#1	.0529	32.46	2.188	2.327	.0526	650.7	.0506	.5119	.3719
#2	.0520	32.66	2.186	2.331	.0534	648.5	.0504	.5118	.3718
#3	.0528	32.48	2.188	2.320	.0531	646.2	.0505	.5117	.3704

Elem	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
IS Ref	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)
Avg	.2798	31.75	F115.1	29.86	.6451	.5737	73.00	.5586	.5031
Stddev	.0014	.05	.3	.10	.0004	.0003	.04	.0009	.0007
%RSD	.5022	.1668	.2709	.3292	.0547	.0587	.0616	.1562	.1385
#1	.2814	31.79	115.3	29.91	.6455	.5733	73.05	.5595	.5030
#2	.2788	31.69	115.3	29.75	.6450	.5738	72.97	.5582	.5039
#3	.2792	31.77	114.8	29.93	.6449	.5739	72.96	.5579	.5025

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	.5397	2.177	16.71	.5456	1.677	.7987	1.975	.5196	.6613
Stddev	.0007	.005	.01	.0009	.004	.0007	.004	.0009	.0000
%RSD	.1327	.2407	.0517	.1583	.2272	.0856	.2298	.1704	.0041
#1	.5392	2.180	16.72	.5458	1.675	.7995	1.973	.5197	.6613
#2	.5395	2.171	16.71	.5463	1.681	.7983	1.980	.5187	.6613
#3	.5405	2.180	16.70	.5446	1.674	.7984	1.971	.5205	.6613

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	2261.8	7091.0	39437.	2002.0
Stddev	3.7	5.1	44.	14.3
%RSD	.16539	.07231	.11224	.71458
#1	2265.4	7096.0	39489.	1996.2
#2	2257.9	7091.3	39411.	2018.3
#3	2262.0	7085.7	39413.	1991.5

Zoom In Zoom Out

Sample Name: MP28738-S2 Acquired: 4/1/2015 16:43:51 Type: Unk
Method: 60102007_041712(v209) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)
Avg	.0526	31.33	2.177	2.247	.0513	F613.6	.0503	.5094	.3645
Stddev	.0007	1.17	.001	.081	.0020	17.6	.0001	.0003	.0002
%RSD	1.387	3.730	.0564	3.584	3.947	2.870	.2860	.0556	.0561
#1	.0530	29.98	2.176	2.154	.0490	593.5	.0505	.5093	.3643
#2	.0530	32.12	2.179	2.299	.0529	626.6	.0502	.5092	.3647
#3	.0517	31.87	2.177	2.288	.0520	620.6	.0503	.5098	.3645

Elem	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
IS Ref	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)
Avg	.2795	30.68	F108.9	28.79	.6372	.5708	69.47	.5554	.5015
Stddev	.0002	1.24	4.0	1.11	.0011	.0001	2.48	.0003	.0014
%RSD	.0678	4.044	3.711	3.869	.1688	.0117	3.577	.0575	.2744
#1	.2794	29.25	104.3	27.52	.6367	.5708	66.63	.5555	.5024
#2	.2794	31.52	111.8	29.57	.6384	.5707	71.24	.5550	.4999
#3	.2797	31.27	110.5	29.29	.6364	.5708	70.54	.5556	.5022

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	.5382	2.175	16.20	.5428	1.601	.7876	1.969	.5156	.6557
Stddev	.0003	.002	.01	.0013	.058	.0007	.003	.0002	.0008
%RSD	.0498	.1105	.0577	.2395	3.616	.0890	.1664	.0342	.1217
#1	.5383	2.174	16.20	.5429	1.534	.7872	1.972	.5157	.6565
#2	.5385	2.177	16.21	.5414	1.640	.7884	1.966	.5154	.6549
#3	.5379	2.173	16.19	.5440	1.628	.7872	1.969	.5157	.6558

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	2267.3	7116.2	39895.	2071.1
Stddev	4.4	12.5	119.	80.2
%RSD	.19480	.17627	.29719	3.8736
#1	2263.6	7105.1	39929.	2163.2
#2	2272.2	7129.8	39764.	2016.6
#3	2266.0	7113.6	39993.	2033.5

Zoom In Zoom Out

Sample Name: FA23193-1 Acquired: 4/1/2015 16:47:56 Type: Unk
Method: 60102007_041712(v209) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	-.0004	.1085	.0015	.0555	.0000	71.80	-.0001	.0002	.0040	-.0004
Stddev	.0003	.0065	.0005	.0005	.000	.42	.0001	.0000	.0000	.0002
%RSD	84.62	5.971	35.85	.9278	1993.	.5918	63.40	8.918	1.177	37.08
#1	-.0004	.1148	.0018	.0550	.0001	71.42	-.0001	.0001	.0040	-.0003
#2	.0000	.1019	.0019	.0560	.0000	72.26	-.0001	.0002	.0039	-.0006
#3	-.0006	.1088	.0009	.0553	-.0001	71.71	.0000	.0002	.0040	-.0004

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	1.857	6.627	23.90	.0320	.0001	18.82	.0004	-.0015	.0009	.0005
Stddev	.011	.029	.16	.0002	.0002	.11	.0001	.0005	.0001	.0009
%RSD	.5872	.4433	.6690	.4743	143.3	.6049	32.17	31.07	16.03	176.8
#1	1.850	6.617	23.82	.0322	.0002	18.74	.0005	-.0014	.0010	-.0004
#2	1.869	6.660	24.09	.0320	-.0001	18.95	.0002	-.0011	.0009	.0013
#3	1.851	6.604	23.80	.0319	.0002	18.76	.0004	-.0020	.0007	.0005

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	1.967	.0002	.1785	.0022	-.0007	.0069	.0078
Stddev	.003	.0003	.0009	.0000	.0006	.0001	.0000
%RSD	.1703	160.4	.5315	.4828	83.96	.7450	.4668
#1	1.965	-.0001	.1782	.0022	-.0009	.0069	.0078
#2	1.971	.0005	.1795	.0022	-.0011	.0070	.0079
#3	1.965	.0002	.1777	.0022	.0000	.0069	.0078

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	2689.6	7847.5	44240.	2096.8
Stddev	7.1	5.1	35.	31.7
%RSD	.26454	.06492	.07913	1.5124
#1	2681.8	7841.7	44201.	2124.3
#2	2691.4	7851.0	44267.	2062.1
#3	2695.7	7850.0	44254.	2104.1

Zoom In Zoom Out

Sample Name: FA23193-3 Acquired: 4/1/2015 16:52:03 Type: Unk
Method: 60102007_041712(v209) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	.0000	.4805	.0023	.0629	.0000	53.58	.0000	.0000	.0039	.0003
Stddev	.000	.0186	.0004	.0004	.000	.22	.000	.0000	.0001	.0001
%RSD	1157.	3.870	16.29	.6031	86.50	.4132	226.2	63.45	3.743	20.39
#1	-.0003	.4628	.0024	.0625	.0000	53.53	.0000	.0001	.0038	.0003
#2	.0000	.4999	.0026	.0628	-.0001	53.82	-.0001	.0000	.0038	.0003
#3	.0002	.4788	.0019	.0633	.0000	53.39	.0000	.0001	.0040	.0004

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	6.136	3.997	4.930	.0194	.0021	15.82	.0008	-.0007	.0009	-.0006
Stddev	.018	.025	.015	.0000	.0000	.05	.0001	.0006	.0005	.0007
%RSD	.2952	.6236	.2972	.1719	1.934	.3394	11.91	90.43	50.78	121.6
#1	6.116	4.025	4.922	.0194	.0021	15.79	.0008	-.0002	.0004	.0001
#2	6.151	3.991	4.947	.0194	.0021	15.88	.0006	-.0005	.0011	-.0005
#3	6.140	3.976	4.922	.0194	.0020	15.80	.0008	-.0015	.0011	-.0013

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	4.571	.0003	.1954	.0091	-.0013	.0086	.0075
Stddev	.005	.0000	.0011	.0000	.0004	.0002	.0000
%RSD	.1103	15.64	.5428	.5254	32.21	2.487	.4914
#1	4.575	.0003	.1944	.0091	-.0008	.0084	.0075
#2	4.572	.0004	.1965	.0092	-.0017	.0086	.0074
#3	4.565	.0003	.1952	.0091	-.0014	.0088	.0075

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	2745.3	7839.3	43829.	2048.9
Stddev	5.2	7.5	156.	9.4
%RSD	.18805	.09504	.35638	.45672
#1	2745.8	7837.7	44006.	2046.7
#2	2750.3	7847.4	43713.	2040.8
#3	2740.0	7832.7	43767.	2059.1

Zoom In Zoom Out

Sample Name: FA23193-4 Acquired: 4/1/2015 16:56:10 Type: Unk
Method: 60102007_041712(v209) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	-.0002	.7654	.0024	.0279	.0001	6.926	.0000	.0003	.0056	.0001
Stddev	.0002	.0060	.0006	.0001	.0001	.059	.000	.0000	.0002	.0001
%RSD	110.2	.7786	24.04	.2670	205.7	.8456	465.1	15.42	3.604	88.28
#1	-.0001	.7585	.0020	.0279	-.0001	6.865	.0000	.0003	.0057	.0000
#2	-.0004	.7686	.0022	.0278	.0002	6.982	.0000	.0003	.0054	.0002
#3	.0000	.7690	.0031	.0279	.0001	6.932	.0000	.0003	.0057	.0002

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	4.987	1.198	2.264	.0086	.0003	18.14	.0008	.0003	.0004	.0002
Stddev	.039	.027	.058	.0000	.0001	.09	.0001	.0001	.0006	.0009
%RSD	.7816	2.277	2.540	.4756	47.26	.5042	12.03	56.49	149.8	577.5
#1	4.949	1.211	2.237	.0087	.0001	18.04	.0007	.0003	-.0003	-.0005
#2	5.027	1.217	2.330	.0086	.0003	18.22	.0009	.0004	.0006	.0012
#3	4.984	1.167	2.225	.0086	.0003	18.15	.0009	.0001	.0008	-.0002

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	8.111	.0002	.0274	.0140	-.0010	.0136	.0078
Stddev	.016	.0003	.0002	.0001	.0002	.0002	.0000
%RSD	.1906	144.9	.7412	.5294	24.55	1.226	.3945
#1	8.096	.0006	.0272	.0139	-.0012	.0137	.0078
#2	8.127	.0000	.0276	.0141	-.0008	.0136	.0078
#3	8.111	.0001	.0275	.0140	-.0009	.0134	.0078

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	2827.0	8046.0	45170.	2083.4
Stddev	8.9	11.6	115.	11.6
%RSD	.31327	.14443	.25485	.55859
#1	2829.3	8049.7	45300.	2090.9
#2	2834.5	8055.3	45128.	2070.0
#3	2817.2	8033.0	45082.	2089.4

Zoom In
Zoom Out

Sample Name: FA23193-1F Acquired: 4/1/2015 17:00:18 Type: Unk
Method: 60102007_041712(v209) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	-.0001	.0998	.0010	.0565	.0001	81.26	-.0001	.0002	.0041	.0000
Stddev	.0002	.0042	.0003	.0004	.0001	.23	.0000	.0000	.0001	.000
%RSD	199.3	4.214	30.69	.7818	73.54	.2883	30.61	27.08	2.521	2355.
#1	.0002	.0976	.0009	.0561	.0001	81.05	.0000	.0002	.0041	.0002
#2	-.0002	.0972	.0008	.0570	.0000	81.51	.0000	.0002	.0039	-.0001
#3	-.0003	.1047	.0014	.0565	.0001	81.23	-.0001	.0001	.0041	.0000

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	1.809	7.645	23.76	.0333	.0001	20.02	.0013	-.0019	.0005	.0001
Stddev	.015	.010	.08	.0001	.0000	.06	.0001	.0004	.0005	.0008
%RSD	.8019	.1359	.3185	.2988	42.73	.3192	8.983	20.87	103.6	639.4
#1	1.793	7.647	23.77	.0331	.0000	19.95	.0012	-.0018	.0011	-.0007
#2	1.814	7.653	23.83	.0333	.0001	20.08	.0014	-.0016	.0001	.0002
#3	1.821	7.633	23.68	.0333	.0001	20.04	.0014	-.0023	.0004	.0009

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	2.140	-.0001	.1836	.0015	-.0016	.0068	.0079
Stddev	.004	.0003	.0007	.0001	.0006	.0002	.0000
%RSD	.1725	226.7	.3798	3.890	39.58	2.294	.5402
#1	2.136	.0002	.1828	.0014	-.0019	.0068	.0078
#2	2.142	-.0003	.1840	.0015	-.0009	.0066	.0078
#3	2.143	-.0003	.1841	.0014	-.0020	.0070	.0079

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	2664.1	7800.4	43747.	2083.0
Stddev	4.0	10.0	165.	14.6
%RSD	.14919	.12856	.37757	.69878
#1	2660.5	7809.2	43938.	2067.1
#2	2663.6	7789.5	43657.	2086.2
#3	2668.4	7802.6	43647.	2095.7

Zoom In
Zoom Out

Sample Name: FA23193-4F Acquired: 4/1/2015 17:04:26 Type: Unk
Method: 60102007_041712(v209) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	-.0002	.2555	.0023	.0260	.0001	7.040	.0000	.0002	.0050	.0000
Stddev	.0004	.0196	.0002	.0001	.0002	.009	.000	.0000	.0003	.000
%RSD	224.1	7.687	8.156	.3703	141.8	.1264	77.97	7.973	5.177	700.2
#1	-.0006	.2694	.0025	.0259	.0002	7.030	.0000	.0003	.0047	.0003
#2	.0002	.2331	.0023	.0259	.0002	7.044	.0000	.0002	.0052	-.0002
#3	-.0002	.2641	.0022	.0261	-.0001	7.046	-.0001	.0002	.0050	-.0002

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	4.099	1.195	2.252	.0083	.0002	18.10	.0006	-.0004	-.0001	-.0007
Stddev	.007	.035	.028	.0001	.0000	.04	.0001	.0005	.0005	.0002
%RSD	.1693	2.926	1.225	1.132	21.94	.2223	14.07	136.4	400.7	25.71
#1	4.098	1.165	2.275	.0084	.0002	18.11	.0005	-.0008	.0004	-.0008
#2	4.093	1.234	2.222	.0083	.0002	18.06	.0006	.0002	-.0003	-.0005
#3	4.107	1.187	2.260	.0082	.0001	18.14	.0006	-.0006	-.0005	-.0007

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	7.763	.0000	.0252	.0009	-.0009	.0089	.0097
Stddev	.012	.000	.0001	.0001	.0001	.0001	.0000
%RSD	.1480	153.5	.2877	5.646	13.42	1.086	.1438
#1	7.776	-.0001	.0252	.0009	-.0008	.0090	.0097
#2	7.759	.0000	.0252	.0010	-.0011	.0088	.0097
#3	7.754	.0000	.0253	.0009	-.0009	.0088	.0097

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	2828.6	8001.2	44721.	2055.3
Stddev	2.4	3.9	122.	6.1
%RSD	.08574	.04835	.27350	.29589
#1	2828.3	8001.0	44852.	2051.6
#2	2826.4	8005.2	44609.	2062.3
#3	2831.2	7997.4	44702.	2052.1

Zoom In
Zoom Out

Sample Name: FA23192-9F Acquired: 4/1/2015 17:08:35 Type: Unk
Method: 60102007_041712(v209) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	-.0004	.0189	.0004	.0260	.0001	220.9	.0008	.0003	.0003	.0005
Stddev	.0005	.0238	.0004	.0003	.0002	1.4	.0000	.0001	.0001	.0001
%RSD	115.2	125.8	94.13	1.251	397.1	.6207	5.372	27.23	35.72	19.82
#1	-.0006	.0449	.0001	.0261	.0000	220.6	.0008	.0004	.0004	.0004
#2	-.0008	-.0019	.0004	.0256	.0003	219.7	.0009	.0003	.0002	.0006
#3	.0001	.0138	.0008	.0262	-.0001	222.4	.0008	.0003	.0004	.0006

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	.0062	6.220	60.94	.0982	.0311	70.39	.0027	-.0027	.0020	-.0005
Stddev	.0036	.066	.46	.0007	.0001	.46	.0001	.0005	.0005	.0007
%RSD	59.18	1.062	.7466	.7182	.2861	.6515	1.890	20.40	26.13	136.7
#1	.0020	6.171	60.91	.0982	.0311	70.24	.0026	-.0024	.0014	-.0012
#2	.0075	6.194	60.51	.0989	.0312	70.02	.0027	-.0033	.0024	-.0005
#3	.0089	6.295	61.42	.0975	.0310	70.90	.0027	-.0023	.0022	.0002

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	2.659	-.0001	.3240	.0001	-.0016	.0214	.0078
Stddev	.000	.0001	.0025	.0001	.0016	.0002	.0000
%RSD	.0058	153.2	.7695	160.4	98.35	.7028	.5086
#1	2.659	-.0003	.3231	-.0001	-.0019	.0215	.0078
#2	2.659	.0000	.3221	.0001	.0001	.0214	.0079
#3	2.659	-.0001	.3269	.0001	-.0030	.0212	.0078

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	2493.3	7330.7	41076.	2006.8
Stddev	11.3	20.9	184.	8.2
%RSD	.45292	.28498	.44909	.40954
#1	2489.2	7328.7	41133.	2002.2
#2	2484.6	7310.8	40869.	2016.3
#3	2506.1	7352.5	41225.	2001.9

Zoom In
Zoom Out

Sample Name: FA23192-10F Acquired: 4/1/2015 17:12:39 Type: Unk
Method: 60102007_041712(v209) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)
Avg	-.0002	.1561	.0027	.0229	.0001	199.4	.0023	.0018	.0020
Stddev	.0002	.0074	.0005	.0007	.0001	.8	.0000	.0000	.0002
%RSD	74.82	4.730	17.76	2.923	105.7	.4019	.1465	2.520	8.732
#1	-.0004	.1616	.0032	.0225	.0001	199.5	.0023	.0018	.0022
#2	-.0002	.1477	.0027	.0227	.0000	198.6	.0023	.0018	.0019
#3	-.0001	.1590	.0023	.0237	.0003	200.2	.0023	.0017	.0019

Elem	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
IS Ref	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)
Avg	.0016	.0197	12.38	91.21	.1853	.0040	F94.64	.0049	-.0030
Stddev	.0002	.0033	.06	.41	.0004	.0001	.32	.0002	.0006
%RSD	9.786	16.82	.4454	.4530	.2428	2.101	.3346	3.984	20.85
#1	.0018	.0190	12.39	91.39	.1848	.0039	94.73	.0051	-.0023
#2	.0016	.0168	12.31	90.74	.1855	.0041	94.29	.0047	-.0036
#3	.0014	.0233	12.42	91.51	.1856	.0040	94.91	.0049	-.0031

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	.0028	.0055	7.792	-.0002	.2411	.0013	-.0003	.0193	.0130
Stddev	.0002	.0010	.008	.0002	.0008	.0001	.0009	.0001	.0001
%RSD	8.030	18.01	.1011	88.29	.3119	9.007	311.0	.4605	.6815
#1	.0028	.0047	7.799	-.0001	.2406	.0013	-.0002	.0192	.0129
#2	.0026	.0052	7.784	-.0004	.2408	.0011	-.0013	.0193	.0130
#3	.0031	.0066	7.795	-.0001	.2420	.0014	.0006	.0194	.0131

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	2463.1	7287.1	40812.	1995.3
Stddev	3.9	8.1	115.	17.6
%RSD	.15998	.11130	.28128	.88168
#1	2466.8	7296.1	40936.	1981.0
#2	2458.9	7280.4	40709.	2014.9
#3	2463.5	7284.7	40791.	1989.8

Zoom In Zoom Out

Sample Name: FA23192-11F Acquired: 4/1/2015 17:16:46 Type: Unk
Method: 60102007_041712(v209) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)
Avg	-.0006	.0198	-.0016	.0193	.0000	336.0	.0004	.0001	.0003
Stddev	.0003	.0126	.0006	.0002	.0001	1.3	.0000	.0000	.0002
%RSD	44.90	63.94	39.45	1.065	245.6	.3758	6.447	19.02	53.19
#1	-.0009	.0235	-.0009	.0194	-.0001	337.4	.0003	.0001	.0005
#2	-.0006	.0301	-.0018	.0191	.0001	335.5	.0004	.0001	.0002
#3	-.0003	.0057	-.0021	.0195	.0001	335.0	.0004	.0001	.0002

Elem	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
IS Ref	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)
Avg	.0011	.0060	2.563	62.21	.1060	.0116	F91.17	.0015	-.0025
Stddev	.0002	.0042	.013	.17	.0003	.0002	.38	.0002	.0005
%RSD	17.75	69.16	.4966	.2764	.2985	1.307	.4208	14.18	20.26
#1	.0013	.0059	2.569	62.38	.1057	.0115	91.60	.0017	-.0026
#2	.0010	.0019	2.549	62.19	.1063	.0118	91.04	.0015	-.0019
#3	.0010	.0103	2.572	62.04	.1061	.0117	90.87	.0013	-.0029

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	.0014	.0022	1.783	.0000	.2080	-.0003	-.0024	.0129	.0086
Stddev	.0012	.0004	.002	.000	.0006	.0001	.0004	.0004	.0001
%RSD	84.75	19.86	.0959	749.0	.3121	18.55	17.73	3.183	.6296
#1	.0024	.0027	1.784	-.0003	.2087	-.0003	-.0028	.0126	.0086
#2	.0001	.0018	1.781	.0000	.2078	-.0003	-.0020	.0127	.0086
#3	.0016	.0021	1.783	.0002	.2074	-.0004	-.0023	.0133	.0087

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	2417.1	7170.5	39914.	1999.9
Stddev	8.0	1.9	118.	16.9
%RSD	.33120	.02612	.29622	.84319
#1	2413.9	7169.8	40039.	1985.5
#2	2426.2	7172.6	39898.	2018.4
#3	2411.2	7169.1	39804.	1995.7

Zoom In Zoom Out

Sample Name: CCV Acquired: 4/1/2015 17:20:50 Type: QC
Method: 60102007_041712(v209) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2545	41.37	2.040	2.067	2.071	41.57	2.064	2.060	2.070	2.046
Stddev	.0010	.81	.005	.037	.038	.76	.003	.003	.007	.006
%RSD	.4005	1.969	.2252	1.803	1.833	1.832	.1333	.1252	.3332	.2999
#1	.2555	40.84	2.045	2.044	2.046	41.14	2.066	2.061	2.074	2.052
#2	.2535	42.31	2.035	2.110	2.115	42.45	2.061	2.057	2.062	2.041
#3	.2544	40.97	2.041	2.046	2.052	41.13	2.064	2.062	2.075	2.044
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value										
Range										

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	41.68	41.40	41.41	2.096	2.052	41.49	2.067	2.031	2.035	2.046
Stddev	.71	.80	.62	.010	.009	.76	.002	.002	.001	.001
%RSD	1.693	1.921	1.489	.4816	.4246	1.828	.1113	.0789	.0373	.0414
#1	41.18	40.94	41.09	2.107	2.044	40.99	2.068	2.031	2.034	2.046
#2	42.48	42.32	42.12	2.087	2.051	42.36	2.064	2.029	2.035	2.047
#3	41.36	40.94	41.02	2.095	2.061	41.12	2.068	2.033	2.036	2.046
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value										
Range										

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.099	2.051	2.059	2.090	2.053	2.037	2.063
Stddev	.001	.004	.039	.006	.003	.006	.004
%RSD	.0295	.1930	1.906	.2835	.1228	.3065	.1995
#1	2.099	2.055	2.031	2.094	2.054	2.041	2.067
#2	2.098	2.049	2.103	2.083	2.050	2.030	2.059
#3	2.099	2.047	2.041	2.093	2.055	2.040	2.064
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Zoom In Zoom Out

Sample Name: CCV Acquired: 4/1/2015 17:20:50 Type: QC
Method: 60102007_041712(v209) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2486.0	7613.2	42213.	1983.1
Stddev	6.6	15.5	185.	27.6
%RSD	.26608	.20402	.43713	1.3935
#1	2486.1	7605.7	42151.	1991.7
#2	2492.5	7631.1	42420.	1952.1
#3	2479.3	7602.8	42067.	2005.3

Zoom In Zoom Out

Sample Name: CCB Acquired: 4/1/2015 17:24:56 Type: QC
Method: 60102007_041712(v209) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0003	-.0018	.0003	.0001	.0003	.0039	.0001	.0001	.0006
Stddev	.0002	.0150	.0010	.0002	.0001	.0021	.0001	.0001	.0001
%RSD	58.69	840.2	367.4	175.3	30.55	54.45	42.37	116.6	18.53
#1	-.0001	.0154	.0014	.0001	.0004	.0015	.0002	.0001	.0006
#2	-.0003	-.0086	-.0003	.0004	.0002	.0048	.0001	.0001	.0005
#3	-.0005	-.0122	-.0003	-.0001	.0003	.0054	.0001	.0000	.0006
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0005	.0348	.0469	.0484	.0003	F.0025	.0140	.0003	.0010
Stddev	.0003	.0075	.0186	.0083	.0001	.0007	.0118	.0001	.0005
%RSD	66.45	21.55	39.68	17.14	21.53	25.93	83.69	21.05	48.94
#1	.0005	.0426	.0488	.0573	.0004	.0032	.0074	.0003	.0007
#2	.0008	.0342	.0646	.0409	.0004	.0025	.0071	.0003	.0015
#3	.0001	.0276	.0275	.0469	.0003	.0019	.0276	.0002	.0007
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit						.0010			
Low Limit						-.0010			

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F.0023	-.0008	.0034	.0007	.0002	.0018	-.0005	.0002	.0004
Stddev	.0006	.0009	.0003	.0001	.0001	.0001	.0009	.0001	.0001
%RSD	26.99	111.3	9.046	15.47	23.81	7.871	194.1	48.13	14.42
#1	.0030	.0002	.0036	.0007	.0002	.0020	.0002	.0002	.0005
#2	.0018	-.0015	.0031	.0006	.0002	.0017	-.0015	.0001	.0004
#3	.0022	-.0011	.0037	.0008	.0003	.0017	-.0001	.0003	.0004
Check ?	Chk Fail	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	.0020								
Low Limit	-.0020								

Zoom In Zoom Out

Sample Name: CCB Acquired: 4/1/2015 17:24:56 Type: QC
Method: 60102007_041712(v209) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2986.8	8010.9	45043.	2020.7
Stddev	6.7	14.8	41.	16.9
%RSD	.22313	.18417	.09062	.83765
#1	2988.7	8021.7	45072.	2003.7
#2	2992.3	8016.7	44996.	2037.6
#3	2979.4	7994.1	45060.	2020.8

Zoom In Zoom Out

Sample Name: FA23192-12F Acquired: 4/1/2015 17:29:09 Type: Unk
Method: 60102007_041712(v209) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)
Avg	.0006	.0642	.0514	.0005	.0001	65.77	.0004	.0052	.0064
Stddev	.0006	.0104	.0005	.0003	.0000	.11	.0000	.0000	.0002
%RSD	102.0	16.13	1.063	56.73	37.23	.1596	9.944	.7837	2.366
#1	.0007	.0717	.0520	.0004	.0001	65.89	.0005	.0052	.0065
#2	-.0001	.0686	.0513	.0003	.0002	65.74	.0004	.0052	.0065
#3	.0011	.0524	.0509	.0009	.0001	65.68	.0004	.0051	.0062

Elem	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
IS Ref	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)
Avg	.0011	.0360	5.667	65.06	.0502	.0142	F413.5	.0205	-.0024
Stddev	.0000	.0029	.014	.44	.0003	.0001	2.4	.0000	.0006
%RSD	3.683	7.979	.2454	.6786	.5850	.4638	.5924	.2017	23.67
#1	.0011	.0382	5.679	65.53	.0500	.0141	416.2	.0205	-.0030
#2	.0011	.0328	5.652	65.00	.0505	.0142	411.4	.0206	-.0023
#3	.0011	.0371	5.670	64.65	.0500	.0142	412.8	.0205	-.0019

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	.0024	.0138	20.67	.0000	.0479	.0015	-.0003	.0963	.0131
Stddev	.0008	.0003	.02	.000	.0002	.0002	.0015	.0003	.0000
%RSD	35.19	1.993	.0761	3443.	.3215	12.17	592.7	.2877	.2132
#1	.0024	.0141	20.66	-.0002	.0479	.0013	-.0020	.0960	.0131
#2	.0032	.0136	20.67	-.0002	.0478	.0016	.0004	.0966	.0132
#3	.0015	.0138	20.69	.0003	.0481	.0015	.0009	.0964	.0131

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	2311.7	7276.2	39773.	2021.4
Stddev	2.3	9.9	126.	12.5
%RSD	.10158	.13648	.31801	.61936
#1	2309.0	7269.4	39919.	2009.1
#2	2313.2	7287.6	39701.	2020.9
#3	2312.8	7271.6	39699.	2034.1

Zoom In Zoom Out

Sample Name: FA23192-13F Acquired: 4/1/2015 17:33:23 Type: Unk
Method: 60102007_041712(v209) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)
Avg	.0005	.0906	.0035	.0041	.0000	41.08	.0002	.0026	.0025
Stddev	.0004	.0043	.0000	.0003	.0002	.22	.0000	.0001	.0001
%RSD	67.19	4.785	1.413	6.438	425.0	.5422	11.25	2.390	4.024
#1	.0009	.0928	.0034	.0038	.0000	40.88	.0003	.0025	.0025
#2	.0005	.0856	.0035	.0044	.0002	41.32	.0002	.0026	.0026
#3	.0002	.0935	.0035	.0041	-.0001	41.03	.0002	.0026	.0024

Elem	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
IS Ref	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)
Avg	.0014	.0793	4.115	19.73	.1348	.0071	F94.33	.0092	-.0025
Stddev	.0003	.0027	.033	.08	.0003	.0001	.39	.0001	.0002
%RSD	21.78	3.363	.8010	.4002	.2459	.7762	.4087	.8724	7.458
#1	.0018	.0763	4.079	19.69	.1346	.0072	93.97	.0092	-.0027
#2	.0012	.0811	4.144	19.82	.1352	.0070	94.74	.0091	-.0023
#3	.0013	.0806	4.121	19.68	.1346	.0071	94.29	.0093	-.0025

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	.0014	.0047	14.24	-.0002	.0753	.0009	.0002	.0516	.0150
Stddev	.0002	.0003	.01	.0001	.0003	.0001	.0003	.0003	.0000
%RSD	15.59	5.849	.1018	70.33	.3357	12.78	101.6	.6164	.1322
#1	.0016	.0050	14.26	-.0003	.0751	.0008	.0001	.0515	.0149
#2	.0012	.0045	14.23	-.0001	.0756	.0010	.0005	.0520	.0150
#3	.0013	.0045	14.24	-.0002	.0751	.0009	.0001	.0514	.0150

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	2613.2	7702.2	42290.	2017.0
Stddev	2.4	17.1	94.	26.9
%RSD	.09137	.22257	.22239	1.3319
#1	2611.6	7696.4	42350.	2028.3
#2	2612.0	7688.7	42182.	1986.3
#3	2615.9	7721.5	42339.	2036.4

Zoom In Zoom Out

Sample Name: FA23201-1 Acquired: 4/1/2015 17:37:30 Type: Unk
Method: 60102007_041712(v209) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)
Avg	-.0003	.0341	.0250	.0309	-.0001	104.3	.0000	.0000	.0013
Stddev	.0002	.0091	.0001	.0003	.0000	.4	.000	.000	.0004
%RSD	60.54	26.58	.5902	.9736	58.94	.3797	83.11	203.8	29.18
#1	-.0004	.0441	.0248	.0308	.0000	104.1	-.0001	-.0001	.0009
#2	-.0003	.0318	.0251	.0307	-.0001	103.9	-.0001	.0001	.0013
#3	-.0001	.0264	.0250	.0313	-.0001	104.7	.0000	-.0001	.0016

Elem	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
IS Ref	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)
Avg	.0005	.6168	6.262	13.04	.0214	.0072	F114.1	.0010	-.0020
Stddev	.0000	.0054	.028	.04	.0001	.0001	.2	.0000	.0002
%RSD	2.271	.8735	.4427	.3125	.4131	1.305	.1814	3.499	11.60
#1	.0005	.6119	6.273	13.07	.0213	.0073	114.4	.0010	-.0023
#2	.0005	.6226	6.231	12.99	.0215	.0071	114.1	.0010	-.0019
#3	.0005	.6159	6.283	13.04	.0214	.0072	114.0	.0010	-.0019

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	.0016	.0001	5.102	-.0001	1.041	.0016	-.0016	.0021	.0124
Stddev	.0011	.0009	.010	.0001	.003	.0001	.0008	.0003	.0000
%RSD	68.80	1006.	.2044	107.4	.3298	5.730	46.74	15.45	.2674
#1	.0005	.0011	5.093	-.0001	1.040	.0016	-.0025	.0023	.0124
#2	.0027	-.0001	5.101	.0000	1.038	.0015	-.0012	.0022	.0124
#3	.0017	-.0007	5.113	-.0001	1.045	.0016	-.0012	.0017	.0124

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	2539.9	7435.9	41111.	1993.5
Stddev	6.1	19.6	94.	10.3
%RSD	.24190	.26299	.22830	.51902
#1	2543.2	7445.0	41115.	1991.9
#2	2532.9	7413.4	41015.	2004.6
#3	2543.8	7449.2	41202.	1984.1

Zoom In Zoom Out

Sample Name: FA23201-7 Acquired: 4/1/2015 17:41:37 Type: Unk
Method: 60102007_041712(v209) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)
Avg	-.0007	70.87	.0087	.1957	.0057	134.5	.0029	.0138	.3171
Stddev	.0002	.08	.0002	.0003	.0000	.2	.0000	.0000	.0001
%RSD	23.36	.1153	2.623	.1642	.2174	.1648	1.485	.2382	.0356
#1	-.0007	70.81	.0088	.1961	.0057	134.3	.0029	.0138	.3170
#2	-.0005	70.97	.0084	.1954	.0057	134.7	.0030	.0137	.3172
#3	-.0008	70.85	.0087	.1957	.0057	134.5	.0029	.0138	.3171

Elem	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
IS Ref	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)
Avg	.0493	17.92	6.082	3.525	F8.896	.0001	F209.0	.0419	.1099
Stddev	.0002	.03	.015	.058	.002	.0001	1.8	.0002	.0009
%RSD	.3132	.1736	.2411	1.632	.0216	170.9	.8600	.4375	.7878
#1	.0492	17.89	6.081	3.462	8.894	.0002	207.0	.0420	.1107
#2	.0494	17.92	6.097	3.575	8.898	.0000	210.6	.0417	.1090
#3	.0495	17.95	6.067	3.539	8.897	.0001	209.3	.0420	.1102

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	.0001	.0129	34.75	.0012	2.635	.0938	.0108	.0838	.0807
Stddev	.0001	.0012	.01	.0002	.005	.0002	.0007	.0001	.0001
%RSD	66.81	9.292	.0324	15.49	.1814	.1716	6.681	.1666	.1287
#1	.0001	.0125	34.77	.0010	2.640	.0936	.0102	.0836	.0808
#2	.0000	.0142	34.76	.0011	2.635	.0939	.0116	.0839	.0806
#3	.0002	.0119	34.74	.0014	2.631	.0939	.0105	.0838	.0807

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	2243.9	13665.	74084.	3715.1
Stddev	.6	5.	32.	29.6
%RSD	.02489	.03715	.04346	.79689
#1	2243.2	13662.	74054.	3748.0
#2	2244.3	13661.	74118.	3706.7
#3	2244.1	13671.	74080.	3690.6

Zoom In Zoom Out

Sample Name: FA23201-8 Acquired: 4/1/2015 17:45:57 Type: Unk
Method: 60102007_041712(v209) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)
Avg	.0006	5.740	.0002	.0244	.0005	203.3	.0002	.0016	.0357
Stddev	.0004	.030	.0003	.0001	.0001	.4	.0000	.0000	.0003
%RSD	76.70	.5183	148.7	.3217	11.36	.2112	18.15	.8385	.7473
#1	.0010	5.775	.0006	.0244	.0005	203.7	.0002	.0016	.0355
#2	.0001	5.725	.0002	.0244	.0005	203.4	.0002	.0016	.0355
#3	.0006	5.722	-.0001	.0243	.0004	202.9	.0001	.0016	.0360

Elem	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
IS Ref	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)
Avg	.0081	5.120	2.560	2.281	F17.43	.0011	9.509	.0067	.0032
Stddev	.0002	.002	.017	.045	.04	.0001	.007	.0001	.0003
%RSD	2.314	.0354	.6677	1.991	.2237	8.286	.0728	.9078	9.737
#1	.0081	5.119	2.580	2.277	17.42	.0012	9.509	.0067	.0035
#2	.0079	5.122	2.551	2.328	17.39	.0011	9.516	.0066	.0029
#3	.0083	5.118	2.550	2.237	17.47	.0010	9.502	.0067	.0033

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	-.0004	.0015	10.37	.0019	1.019	.0801	.0092	.0148	.1600
Stddev	.0010	.0001	.05	.0003	.002	.0023	.0008	.0001	.0002
%RSD	255.8	8.358	.4997	14.93	.1699	2.931	9.119	.5895	.1488
#1	.0007	.0016	10.40	.0021	1.021	.0824	.0101	.0147	.1603
#2	-.0011	.0016	10.40	.0016	1.019	.0777	.0085	.0149	.1598
#3	-.0007	.0014	10.31	.0020	1.017	.0801	.0090	.0149	.1600

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	2574.2	7984.2	43986.	2086.3
Stddev	10.4	8.3	133.	6.2
%RSD	.40537	.10399	.30338	.29536
#1	2575.6	7982.3	43923.	2079.3
#2	2583.9	7993.2	44139.	2090.7
#3	2563.1	7976.9	43896.	2089.0

Zoom In Zoom Out

Sample Name: FA23072-1 Acquired: 4/1/2015 17:50:11 Type: Unk
Method: 60102007_041712(v209) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	-.0004	3.870	.0011	.0503	.0000	19.21	.0000	.0000	.0057	.0015
Stddev	.0003	.007	.0006	.0004	.0001	.07	.000	.000	.0003	.0003
%RSD	78.95	.1850	53.89	.7503	215.7	.3751	43.49	78.69	4.618	21.77
#1	-.0007	3.878	.0008	.0502	.0001	19.27	.0000	.0000	.0055	.0012
#2	-.0001	3.864	.0018	.0507	.0001	19.23	.0000	-.0001	.0057	.0015
#3	-.0005	3.867	.0008	.0500	-.0001	19.13	.0000	.0000	.0060	.0019

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	.7860	1.347	2.550	.0194	.0010	11.48	.0004	.0037	.0009	.0009
Stddev	.0015	.032	.034	.0001	.0001	.02	.0002	.0004	.0006	.0008
%RSD	.1892	2.335	1.333	.6867	9.897	.1989	37.03	10.35	67.11	83.90
#1	.7877	1.371	2.578	.0194	.0011	11.50	.0003	.0035	.0015	.0007
#2	.7852	1.312	2.561	.0195	.0010	11.47	.0003	.0042	.0004	.0018
#3	.7850	1.359	2.512	.0192	.0009	11.46	.0006	.0035	.0007	.0003

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	5.045	.0001	.1925	.0062	-.0014	.0059	.0110
Stddev	.017	.0000	.0005	.0000	.0002	.0003	.0000
%RSD	.3442	5.427	.2628	.4118	11.57	5.388	.0847
#1	5.064	.0002	.1929	.0062	-.0015	.0061	.0110
#2	5.037	.0002	.1926	.0062	-.0015	.0055	.0110
#3	5.032	.0001	.1919	.0062	-.0012	.0061	.0110

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	2826.4	8131.7	45314.	2069.6
Stddev	1.3	2.3	99.	16.6
%RSD	.04680	.02808	.21770	.79976
#1	2827.9	8132.8	45367.	2055.5
#2	2825.3	8133.2	45200.	2065.5
#3	2826.1	8129.1	45374.	2087.9

Zoom In Zoom Out

Sample Name: FA23072-2 Acquired: 4/1/2015 17:54:19 Type: Unk
Method: 60102007_041712(v209) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	-.0004	6.566	.0018	.0268	.0003	5.662	.0000	.0001	.0082	.0022
Stddev	.0000	.021	.0003	.0006	.0000	.017	.000	.0001	.0002	.0000
%RSD	5.756	.3192	18.88	2.241	17.72	.3079	51.78	47.07	1.964	.8449
#1	-.0004	6.542	.0016	.0273	.0003	5.664	.0000	.0001	.0080	.0022
#2	-.0004	6.582	.0022	.0261	.0003	5.679	-.0001	.0002	.0083	.0022
#3	-.0004	6.573	.0017	.0268	.0002	5.644	-.0001	.0002	.0083	.0022

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	.9397	2.305	1.627	.0153	.0004	12.98	.0011	.0031	.0008	.0003
Stddev	.0049	.033	.030	.0001	.0002	.02	.0002	.0002	.0006	.0012
%RSD	.5221	1.451	1.831	.5043	59.83	.1308	15.00	7.207	75.82	436.4
#1	.9359	2.332	1.605	.0153	.0001	12.98	.0009	.0033	.0003	.0011
#2	.9452	2.268	1.615	.0152	.0005	12.99	.0011	.0030	.0007	-.0012
#3	.9380	2.315	1.661	.0154	.0004	12.96	.0013	.0029	.0015	.0010

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	5.572	.0001	.0305	.0117	-.0014	.0072	.0111
Stddev	.001	.0003	.0001	.0001	.0003	.0002	.0001
%RSD	.0243	238.5	.2538	.9612	22.69	3.212	.9880
#1	5.572	.0002	.0306	.0117	-.0012	.0071	.0111
#2	5.573	.0003	.0306	.0116	-.0012	.0075	.0110
#3	5.570	-.0002	.0304	.0118	-.0017	.0070	.0112

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	2849.7	8062.6	45234.	2080.9
Stddev	4.4	10.0	176.	9.0
%RSD	.15375	.12347	.38904	.43103
#1	2845.5	8060.2	45317.	2091.2
#2	2854.2	8073.5	45353.	2076.0
#3	2849.3	8054.0	45032.	2075.4

Zoom In Zoom Out

Sample Name: FA23072-3 Acquired: 4/1/2015 17:58:27 Type: Unk
Method: 60102007_041712(v209) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	-.0002	1.334	.0002	.0176	.0000	33.44	.0000	.0001	.0037	.0021
Stddev	.0003	.002	.0008	.0001	.000	.11	.000	.0001	.0002	.0001
%RSD	176.7	.1773	326.3	.8492	193.8	.3209	135.9	188.6	5.221	5.448
#1	-.0002	1.334	-.0003	.0175	.0000	33.44	.0000	-.0001	.0038	.0021
#2	-.0004	1.332	-.0001	.0178	.0000	33.34	.0000	.0002	.0034	.0019
#3	.0001	1.337	.0011	.0176	.0000	33.55	-.0001	.0001	.0037	.0022

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	.3276	3.061	6.979	.0622	.0001	18.34	.0020	.0001	.0005	-.0004
Stddev	.0084	.039	.067	.0001	.0000	.10	.0000	.0002	.0004	.0007
%RSD	2.571	1.268	.9553	.0890	47.98	.5186	1.521	235.4	74.22	181.3
#1	.3282	3.018	6.978	.0623	.0001	18.39	.0019	-.0001	.0001	.0004
#2	.3190	3.072	6.913	.0622	.0001	18.23	.0020	.0003	.0008	-.0009
#3	.3358	3.093	7.046	.0622	.0001	18.41	.0020	.0000	.0007	-.0006

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	3.293	.0005	.0950	.0029	-.0014	.0022	.0206
Stddev	.030	.0003	.0003	.0002	.0008	.0002	.0002
%RSD	.8985	55.57	.2716	5.734	58.67	10.57	.8719
#1	3.277	.0002	.0951	.0031	-.0006	.0022	.0204
#2	3.327	.0007	.0947	.0027	-.0023	.0024	.0208
#3	3.274	.0005	.0951	.0028	-.0013	.0019	.0205

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	2757.5	7829.0	44202.	2062.0
Stddev	20.2	51.6	139.	11.3
%RSD	.73119	.65910	.31419	.54999
#1	2767.5	7852.0	44134.	2063.2
#2	2734.3	7769.8	44362.	2072.6
#3	2770.8	7865.0	44111.	2050.1

Zoom In Zoom Out

Sample Name: FA23072-4 Acquired: 4/1/2015 18:02:34 Type: Unk
Method: 60102007_041712(v209) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	-.0003	8.046	.0012	.0286	-.0001	10.09	.0000	.0006	.0133	.0116
Stddev	.0006	.015	.0005	.0003	.0000	.02	.0000	.0001	.0001	.0005
%RSD	236.1	.1887	39.35	.9531	68.54	.1796	100.7	15.99	.6234	4.006
#1	-.0001	8.030	.0008	.0285	-.0001	10.09	.0000	.0006	.0133	.0118
#2	-.0009	8.050	.0017	.0284	.0000	10.11	.0000	.0007	.0133	.0119
#3	.0002	8.060	.0010	.0289	-.0001	10.08	.0000	.0005	.0132	.0110

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	.6053	3.473	.5093	.0191	.0006	29.38	.0047	.0026	.0001	.0014
Stddev	.0119	.014	.0174	.0002	.0000	.08	.0000	.0006	.0014	.0026
%RSD	1.960	.4001	3.409	.8538	3.676	.2877	.8323	24.70	1158.	188.1
#1	.5984	3.483	.4989	.0190	.0006	29.38	.0047	.0030	.0013	-.0008
#2	.6190	3.480	.5293	.0191	.0007	29.46	.0047	.0029	-.0013	.0043
#3	.5985	3.457	.4997	.0193	.0006	29.29	.0047	.0018	.0003	.0007

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	9.253	.0006	.0670	.0115	-.0013	.0113	.0212
Stddev	.007	.0001	.0002	.0001	.0007	.0001	.0000
%RSD	.0745	23.27	.3269	.5432	57.59	.8819	.1649
#1	9.260	.0005	.0668	.0115	-.0015	.0113	.0213
#2	9.251	.0007	.0672	.0114	-.0019	.0112	.0212
#3	9.247	.0006	.0671	.0115	-.0005	.0114	.0212

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	2784.5	8128.9	44974.	2087.7
Stddev	5.6	4.4	346.	21.6
%RSD	.19985	.05418	.76887	1.0343
#1	2778.3	8124.3	45306.	2097.2
#2	2785.9	8129.4	44999.	2063.0
#3	2789.2	8133.1	44616.	2102.9

Zoom In Zoom Out

Sample Name: FA23072-5 Acquired: 4/1/2015 18:06:41 Type: Unk
Method: 60102007_041712(v209) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	-.0003	.2537	-.0001	.0157	.0000	101.9	-.0001	-.0001	.0007	.0005
Stddev	.0002	.0234	.0006	.0004	.000	.4	.0000	.0001	.0003	.0000
%RSD	63.29	9.207	637.2	2.557	1648.	.3625	46.42	58.18	35.95	8.672
#1	-.0001	.2288	.0001	.0156	.0001	101.6	-.0001	-.0002	.0004	.0004
#2	-.0005	.2752	-.0007	.0162	-.0001	102.3	-.0001	-.0001	.0009	.0005
#3	-.0003	.2570	.0004	.0154	-.0001	101.7	-.0001	-.0001	.0008	.0005

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	.0462	1.414	4.897	.0265	.0132	4.907	.0000	-.0019	.0011	-.0009
Stddev	.0025	.030	.052	.0002	.0001	.012	.0001	.0004	.0008	.0008
%RSD	5.313	2.121	1.061	.8395	.6583	.2447	359.2	20.06	70.97	86.80
#1	.0480	1.392	4.844	.0266	.0132	4.906	-.0001	-.0015	.0017	.0000
#2	.0471	1.448	4.948	.0262	.0131	4.919	.0001	-.0023	.0013	-.0015
#3	.0434	1.402	4.898	.0267	.0133	4.895	.0001	-.0020	.0002	-.0011

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	3.023	.0010	.1693	.0112	-.0017	.0024	.0078
Stddev	.005	.0004	.0005	.0032	.0011	.0001	.0000
%RSD	.1734	37.38	.2745	28.83	64.94	4.539	.5954
#1	3.025	.0006	.1692	.0148	-.0004	.0023	.0078
#2	3.017	.0011	.1698	.0087	-.0024	.0025	.0079
#3	3.027	.0014	.1688	.0100	-.0023	.0024	.0078

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	2697.5	7692.1	42916.	1979.2
Stddev	3.5	3.3	201.	17.8
%RSD	.12892	.04274	.46868	.90188
#1	2699.7	7693.7	42815.	1997.0
#2	2693.5	7694.2	43147.	1979.2
#3	2699.4	7688.3	42785.	1961.3

Zoom In Zoom Out

Sample Name: CCV Acquired: 4/1/2015 18:10:49 Type: QC
Method: 60102007_041712(v209) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2543	41.22	2.051	2.067	2.070	41.30	2.065	2.062	2.061	2.061
Stddev	.0014	.10	.003	.005	.005	.05	.001	.002	.003	.008
%RSD	.5521	.2415	.1667	.2674	.2301	.1117	.0492	.0951	.1663	.3929
#1	.2527	41.12	2.049	2.068	2.065	41.25	2.064	2.060	2.059	2.052
#2	.2548	41.23	2.050	2.061	2.073	41.33	2.065	2.062	2.059	2.066
#3	.2553	41.32	2.055	2.072	2.073	41.33	2.066	2.064	2.065	2.065
Check ?	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass
Value										
Range										

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	41.37	41.92	41.10	2.068	2.054	41.52	2.070	2.021	2.049	2.068
Stddev	.08	.17	.07	.008	.009	.13	.003	.004	.001	.004
%RSD	.2040	.4139	.1622	.3855	.4545	.3244	.1197	.1973	.0648	.1918
#1	41.30	41.73	41.04	2.068	2.044	41.38	2.068	2.017	2.047	2.064
#2	41.35	41.95	41.09	2.075	2.056	41.55	2.070	2.021	2.050	2.067
#3	41.46	42.08	41.17	2.059	2.063	41.64	2.073	2.025	2.049	2.072
Check ?	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass
Value										
Range										

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.118	2.045	2.062	2.074	2.048	2.029	2.064
Stddev	.003	.002	.007	.001	.003	.001	.001
%RSD	.1483	.0790	.3530	.0453	.1526	.0657	.0590
#1	2.115	2.044	2.055	2.075	2.046	2.027	2.062
#2	2.121	2.045	2.062	2.073	2.048	2.030	2.064
#3	2.117	2.047	2.069	2.075	2.052	2.029	2.065
Check ?	None	Chk	Pass	Chk	Pass	Chk	Pass
Value							
Range							

Zoom In
Zoom Out

Sample Name: CCV Acquired: 4/1/2015 18:10:49 Type: QC
Method: 60102007_041712(v209) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2501.0	7629.2	42556.	2000.3
Stddev	5.6	11.8	102.	8.3
%RSD	.22558	.15468	.24013	.41581
#1	2505.6	7636.1	42490.	2002.8
#2	2502.6	7635.8	42673.	2007.0
#3	2494.7	7615.5	42504.	1991.0

Zoom In
Zoom Out

Sample Name: CCB Acquired: 4/1/2015 18:14:55 Type: QC
Method: 60102007_041712(v209) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0002	.0096	.0003	.0005	.0006	.0155	.0003	.0003	.0004
Stddev	.0001	.0087	.0004	.0003	.0001	.0021	.0001	.0001	.0001
%RSD	50.30	91.13	141.3	51.10	14.80	13.46	30.00	34.86	26.84
#1	-.0002	.0055	.0007	.0003	.0006	.0133	.0004	.0004	.0003
#2	-.0002	.0036	.0004	.0004	.0005	.0174	.0003	.0002	.0004
#3	-.0001	.0196	-.0002	.0008	.0006	.0158	.0002	.0002	.0005
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0008	.0386	.0033	.0541	.0006	F.0024	.0302	.0004	.0008
Stddev	.0000	.0084	.0071	.0592	.0001	.0005	.0072	.0001	.0005
%RSD	1.447	21.71	212.2	109.5	12.18	22.51	23.91	36.24	60.57
#1	.0008	.0464	.0006	.0698	.0007	.0030	.0220	.0005	.0013
#2	.0008	.0397	-.0019	.1039	.0006	.0022	.0328	.0005	.0004
#3	.0008	.0297	.0114	-.0114	.0005	.0020	.0357	.0002	.0006
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit						.0010			
Low Limit						-.0010			

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0015	.0003	.0034	.0006	.0006	.0019	-.0004	.0005	.0005
Stddev	.0003	.0003	.0006	.0002	.0001	.0002	.0005	.0003	.0001
%RSD	19.97	121.0	16.77	35.54	13.60	11.86	108.7	47.54	24.40
#1	.0016	.0006	.0039	.0008	.0006	.0021	.0000	.0003	.0007
#2	.0017	.0002	.0028	.0005	.0005	.0018	-.0010	.0008	.0005
#3	.0012	.0000	.0034	.0005	.0007	.0017	-.0003	.0005	.0004
Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Zoom In
Zoom Out

Sample Name: CCB Acquired: 4/1/2015 18:14:55 Type: QC
Method: 60102007_041712(v209) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2999.6	8031.9	45081.	2024.4
Stddev	3.9	12.1	163.	14.5
%RSD	.13020	.15010	.36065	.71652
#1	2998.7	8045.9	44992.	2035.6
#2	2996.2	8024.9	44982.	2029.6
#3	3003.9	8025.1	45269.	2008.1

Zoom In
Zoom Out

Sample Name: FA23072-6 Acquired: 4/1/2015 18:19:08 Type: Unk
Method: 60102007_041712(v209) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	-.0002	.0618	-.0002	.0171	.0000	112.0	.0000	-.0002	.0007	.0010
Stddev	.0003	.0034	.0007	.0000	.0001	.2	.000	.0001	.0002	.0002
%RSD	142.2	5.448	390.0	.2173	214.0	.1570	47.11	27.21	33.85	23.12
#1	.0001	.0648	.0000	.0170	.0001	111.9	-.0001	-.0002	.0010	.0012
#2	-.0003	.0582	.0004	.0171	.0001	112.2	-.0001	-.0003	.0006	.0007
#3	-.0004	.0623	-.0009	.0171	-.0001	111.9	.0000	-.0002	.0005	.0010

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	.0212	1.598	5.100	.0399	.0070	7.572	.0002	-.0013	.0011	-.0013
Stddev	.0045	.008	.015	.0002	.0000	.003	.0001	.0001	.0011	.0012
%RSD	20.96	.5136	.3028	.5219	.2519	.0447	52.17	10.32	100.6	94.35
#1	.0257	1.604	5.113	.0397	.0070	7.573	.0002	-.0014	.0015	.0001
#2	.0168	1.600	5.104	.0398	.0070	7.575	.0001	-.0014	.0020	-.0023
#3	.0213	1.588	5.083	.0401	.0070	7.568	.0001	-.0011	-.0001	-.0017

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	3.598	.0002	.2490	.0019	-.0011	.0022	.0070
Stddev	.005	.0001	.0007	.0001	.0005	.0003	.0004
%RSD	.1490	55.38	.2844	5.102	44.74	12.72	5.251
#1	3.605	.0003	.2489	.0018	-.0012	.0019	.0068
#2	3.596	.0001	.2497	.0020	-.0016	.0023	.0068
#3	3.595	.0002	.2483	.0020	-.0006	.0024	.0074

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	2695.3	7691.4	42745.	1994.5
Stddev	3.5	1.8	450.	10.7
%RSD	.12879	.02315	1.0539	.53787
#1	2691.7	7689.4	43167.	2002.5
#2	2698.7	7692.0	42797.	1998.7
#3	2695.4	7692.8	42271.	1982.3

Zoom In Zoom Out

Sample Name: CRIA Acquired: 4/1/2015 18:23:16 Type: Unk
Method: 60102007_041712(v209) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	.0080	.1733	.0089	.1744	.0043	.8998	.0043	.0448	.0088	.0222
Stddev	.0001	.0124	.0008	.0002	.0001	.0017	.0000	.0001	.0002	.0002
%RSD	1.454	7.156	8.577	.1393	2.468	.1849	.7015	.2323	2.117	1.059
#1	.0080	.1876	.0098	.1741	.0044	.9003	.0043	.0449	.0090	.0222
#2	.0079	.1647	.0086	.1746	.0042	.9012	.0044	.0447	.0089	.0220
#3	.0081	.1677	.0084	.1745	.0043	.8980	.0044	.0448	.0087	.0224

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	.2742	8.687	4.369	.0137	.0420	8.827	.0365	.0048	.0045	.0076
Stddev	.0045	.029	.040	.0001	.0002	.020	.0001	.0005	.0002	.0003
%RSD	1.630	.3292	.9083	.6897	.3623	.2231	.3261	10.05	3.376	4.340
#1	.2743	8.718	4.359	.0137	.0421	8.845	.0365	.0054	.0045	.0073
#2	.2787	8.683	4.335	.0135	.0418	8.829	.0363	.0046	.0046	.0080
#3	.2698	8.661	4.413	.0137	.0421	8.806	.0366	.0045	.0043	.0077

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	.1333	.0451	.0085	.0088	.0083	.0414	.0191
Stddev	.0005	.0001	.0002	.0001	.0006	.0003	.0000
%RSD	.4098	.1604	1.933	.7317	6.777	.6842	.1145
#1	.1338	.0450	.0085	.0087	.0085	.0412	.0191
#2	.1332	.0451	.0083	.0088	.0077	.0412	.0191
#3	.1327	.0450	.0086	.0088	.0087	.0417	.0191

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	2885.4	8008.3	44346.	2017.8
Stddev	3.6	5.0	40.	1.5
%RSD	.12340	.06297	.09051	.07433
#1	2885.9	8008.3	44332.	2018.6
#2	2881.6	8013.3	44316.	2016.1
#3	2888.7	8003.2	44392.	2018.8

Zoom In Zoom Out

Sample Name: ICSA Acquired: 4/1/2015 18:27:24 Type: Unk
Method: 60102007_041712(v209) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)
Avg	-.0002	F522.2	.0006	-.0001	.0000	496.7	.0014	-.0004	.0004
Stddev	.0001	1.2	.0009	.0003	.0001	1.5	.0001	.0000	.0004
%RSD	53.45	.2237	149.3	457.0	380.2	.3026	4.451	11.24	84.86
#1	-.0003	522.6	.0016	-.0003	.0001	497.2	.0014	-.0004	.0000
#2	-.0002	523.1	-.0002	.0003	.0001	497.9	.0013	-.0004	.0006
#3	-.0001	520.9	.0004	-.0002	-.0001	495.0	.0015	-.0004	.0006

Elem	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
IS Ref	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)
Avg	.0006	189.9	.0636	F508.3	-.0001	.0010	.1855	.0008	-.0016
Stddev	.0004	.7	.0250	2.0	.0001	.0001	.0033	.0001	.0015
%RSD	69.61	.3487	39.32	.3961	73.33	8.199	1.806	10.03	93.57
#1	.0007	190.3	.0904	509.9	-.0001	.0010	.1836	.0008	-.0003
#2	.0009	190.2	.0408	509.0	.0000	.0011	.1893	.0009	-.0013
#3	.0001	189.1	.0596	506.1	-.0001	.0009	.1835	.0009	-.0032

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	-.0005	-.0015	.0516	.0000	-.0005	-.0008	.0008	-.0001	-.0021
Stddev	.0022	.0013	.0005	.0003	.0002	.0001	.0005	.0001	.0000
%RSD	400.8	81.68	1.060	790.7	36.55	10.87	58.58	72.00	.8280
#1	-.0030	-.0004	.0520	-.0002	-.0005	-.0009	.0005	-.0002	-.0021
#2	.0012	-.0013	.0510	.0004	-.0007	-.0007	.0013	.0000	-.0021
#3	.0002	-.0029	.0518	-.0001	-.0003	-.0007	.0005	-.0001	-.0021

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	2167.8	6992.0	37986.	1916.7
Stddev	4.8	9.6	169.	6.9
%RSD	.21914	.13748	.44603	.36228
#1	2162.5	6984.9	38152.	1919.4
#2	2169.3	6988.2	37994.	1908.8
#3	2171.7	7002.9	37813.	1921.9

Zoom In Zoom Out

Sample Name: ICSAB Acquired: 4/1/2015 18:31:27 Type: Unk
Method: 60102007_041712(v209) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)
Avg	F1.030	F519.9	1.108	.5461	.5362	F500.4	.9668	.4953	.5142
Stddev	.002	2.5	.003	.0025	.0023	2.8	.0004	.0001	.0009
%RSD	.1532	.4862	.2287	.4553	.4208	.5656	.0369	.0275	.1655
#1	1.030	521.3	1.108	.5471	.5366	501.9	.9668	.4954	.5149
#2	1.032	517.0	1.105	.5433	.5338	497.1	.9664	.4952	.5132
#3	1.029	521.4	1.110	.5479	.5382	502.1	.9672	.4952	.5143

Elem	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
IS Ref	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)
Avg	.5696	193.5	.0091	F507.4	.5346	.9950	.1909	1.005	1.014
Stddev	.0000	1.1	.0008	3.2	.0016	.0013	.0099	.001	.003
%RSD	.0075	.5708	8.841	.6367	.2978	.1322	5.177	.0663	.2621
#1	.5697	193.8	.0089	508.4	.5360	.9942	.1979	1.005	1.012
#2	.5696	192.3	.0099	503.8	.5348	.9942	.1952	1.004	1.017
#3	.5696	194.5	.0084	510.0	.5329	.9965	.1796	1.005	1.012

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	1.114	1.075	.1136	.9904	1.070	1.071	1.008	.4987	.9993
Stddev	.002	.002	.0008	.0017	.004	.001	.002	.0006	.0004
%RSD	.2011	.2206	.6631	.1739	.3485	.0795	.1619	.1245	.0448
#1	1.115	1.078	.1143	.9903	1.072	1.071	1.007	.4994	.9990
#2	1.116	1.073	.1136	.9887	1.066	1.071	1.010	.4985	.9992
#3	1.112	1.075	.1128	.9922	1.073	1.070	1.009	.4982	.9998

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	2122.2	6936.5	37743.	1911.8
Stddev	2.4	6.6	94.	22.2
%RSD	.11490	.09561	.24877	1.1621
#1	2122.4	6937.9	37672.	1912.2
#2	2119.6	6942.4	37850.	1933.7
#3	2124.4	6929.3	37708.	1889.3

Zoom In Zoom Out

Sample Name: CCV Acquired: 4/1/2015 18:35:25 Type: QC
Method: 60102007_041712(v209) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2555	40.63	2.028	2.055	2.044	40.77	2.031	2.031	2.049	2.051
Stddev	.0012	.21	.003	.006	.006	.17	.002	.002	.002	.002
%RSD	.4638	.5068	.1416	.2703	.3116	.4164	.1016	.1179	.0981	.1083
#1	.2556	40.85	2.030	2.061	2.051	40.96	2.033	2.033	2.048	2.049
#2	.2566	40.45	2.029	2.050	2.041	40.64	2.031	2.031	2.051	2.054
#3	.2542	40.58	2.025	2.054	2.039	40.70	2.029	2.028	2.047	2.051
Check ?	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass
Value										
Range										

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	40.99	41.40	40.66	2.090	2.031	41.13	2.052	2.010	2.023	2.038
Stddev	.20	.22	.19	.019	.005	.17	.002	.003	.004	.003
%RSD	.4982	.5268	.4679	.9114	.2709	.4203	.1072	.1335	.1881	.1397
#1	41.22	41.65	40.87	2.111	2.025	41.33	2.054	2.013	2.023	2.036
#2	40.82	41.30	40.52	2.074	2.032	41.02	2.053	2.008	2.027	2.041
#3	40.93	41.25	40.58	2.084	2.036	41.05	2.050	2.009	2.020	2.037
Check ?	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass
Value										
Range										

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.088	2.009	2.033	2.082	2.032	2.010	2.033
Stddev	.002	.002	.006	.002	.003	.002	.002
%RSD	.1032	.0909	.2816	.1134	.1535	.1103	.0771
#1	2.087	2.010	2.039	2.080	2.035	2.009	2.035
#2	2.090	2.009	2.029	2.085	2.032	2.013	2.033
#3	2.086	2.007	2.030	2.082	2.029	2.009	2.032
Check ?	None	Chk	Pass	Chk	Pass	Chk	Pass
Value							
Range							

Zoom In Zoom Out

Sample Name: CCV Acquired: 4/1/2015 18:35:25 Type: QC
Method: 60102007_041712(v209) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2507.1	7680.4	42332.	1995.1
Stddev	.5	.9	84.	12.0
%RSD	.01992	.01217	.19855	.60354
#1	2507.0	7679.4	42267.	1981.3
#2	2507.7	7681.3	42302.	2003.2
#3	2506.7	7680.3	42427.	2000.9

Zoom In Zoom Out

Sample Name: CCB Acquired: 4/1/2015 18:39:32 Type: QC
Method: 60102007_041712(v209) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0001	.0209	.0006	.0004	.0007	.0237	.0002	.0002	.0004
Stddev	.0001	.0154	.0002	.0003	.0002	.0064	.0001	.0001	.0001
%RSD	195.9	73.50	33.12	78.04	24.28	27.01	32.20	42.85	20.77
#1	-.0002	.0160	.0007	.0004	.0007	.0182	.0003	.0003	.0004
#2	.0000	.0382	.0006	.0008	.0008	.0221	.0002	.0002	.0003
#3	.0000	.0086	.0004	.0001	.0005	.0307	.0002	.0001	.0004
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0005	F.0509	.0341	.0392	.0006	F.0028	.0097	.0003	.0004
Stddev	.0001	.0119	.0229	.0402	.0001	.0007	.0050	.0001	.0001
%RSD	26.35	23.46	67.18	102.6	9.324	23.67	52.10	36.26	33.33
#1	.0005	.0620	.0442	.0618	.0007	.0035	.0144	.0004	.0003
#2	.0007	.0525	.0503	-.0073	.0006	.0026	.0102	.0002	.0005
#3	.0004	.0383	.0079	.0629	.0006	.0022	.0044	.0003	.0004
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit		.0500				.0010			
Low Limit		-.0500				-.0010			

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0018	-.0005	.0019	.0008	.0006	.0017	-.0001	.0004	.0004
Stddev	.0002	.0011	.0004	.0002	.0001	.0002	.0003	.0004	.0000
%RSD	11.88	224.6	23.75	29.69	17.86	11.78	212.2	98.98	8.590
#1	.0017	.0003	.0015	.0010	.0005	.0019	.0001	.0002	.0005
#2	.0018	.0000	.0017	.0009	.0007	.0018	-.0005	.0008	.0004
#3	.0021	-.0018	.0024	.0005	.0007	.0015	.0000	.0002	.0004
Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Zoom In Zoom Out

Sample Name: CCB Acquired: 4/1/2015 18:39:32 Type: QC
Method: 60102007_041712(v209) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3029.8	8105.5	45320.	2035.2
Stddev	8.7	30.2	226.	19.8
%RSD	.28803	.37307	.49823	.97283
#1	3038.1	8135.3	45244.	2052.3
#2	3030.6	8106.6	45141.	2039.8
#3	3020.7	8074.8	45574.	2013.5

Element, Wavelength and Order	Use?	# IECs	IEC	k1	k2	Calc-in-fit?
Ag 328.068 {103}	☒	3	V	-0.009834	0.000000	No
			Fe	0.000002	0.000000	No
			Mg	0.000000	0.000000	No
Al 396.152 { 85}	☒	1	Mo	0.035224	0.000000	No
As 189.042 {478}	☒	5	Fe	-0.000077	0.000000	No
			Cr	-0.000226	0.000000	No
			Mo	-0.000017	0.000000	No
			Al	0.000004	0.000000	No
			Ca	0.000002	0.000000	No
Ba 455.403 { 74}	☒	1	Fe	0.000004	0.000000	No
Be 313.042 {108}	☒	2	V	0.000115	0.000000	No
			Ti	-0.000059	0.000000	No
Ca 317.933 {106}	☒	None				
Cd 226.502 {449}	☒	4	Fe	0.000079	0.000000	No
			Ca	0.000001	0.000000	No
			Al	-0.000001	0.000000	No
			Ti	0.000151	0.000000	No
Co 228.616 {447}	☒	3	Mo	-0.001220	0.000000	No
			Ti	0.003012	0.000000	No
			Fe	0.000004	0.000000	No
Cr 267.716 {126}	☒	3	Al	0.000001	0.000000	No
			Fe	0.000001	0.000000	No
			Ca	0.000002	0.000000	No
Cu 324.754 {104}	☒	10	Fe	-0.000197	0.000000	No
			Ca	0.000002	0.000000	No
			Mo	0.000528	0.000000	No
			Sn	-0.000012	0.000000	No
			V	-0.000158	0.000000	No
			Ti	-0.000251	0.000000	No
			Al	0.000008	0.000000	No
			Mg	0.000005	0.000000	No
			Co	-0.000787	0.000000	No
			Cd	0.000240	0.000000	No
Fe 259.940 {130}	☒	None				
In 230.606 {446}*	☒	None				
K 766.490 { 44}	☒	None				
Mg 279.079 {121}	☒	None				
Mn 257.610 {131}	☒	2	Fe	0.000008	0.000000	No
			Mg	0.000000	0.000000	No
Mo 202.030 {467}	☒	1	Fe	-0.000019	0.000000	No
Na 589.592 { 57}	☒	None				
Ni 231.604 {445}	☒	7	Fe	-0.000032	0.000000	No
			Co	-0.000054	0.000000	No
			Mo	0.000005	0.000000	No
			Sb	-0.000120	0.000000	No
			Al	0.000003	0.000000	No
			Be	-0.000269	0.000000	No
			Tl	0.000440	0.000000	No
Pb 220.353 {453}	☒	9	Al	0.000249	0.000000	No
			Fe	0.000029	0.000000	No
			Mo	-0.001012	0.000000	No
			Cu	0.001070	0.000000	No
			Ti	0.000036	0.000000	No
			Si	0.000071	0.000000	No
			Ca	0.000003	0.000000	No
			Cr	0.000050	0.000000	No
			Mg	0.000000	0.000000	No

Element, Wavelength and Order	Use?	# IECs	IEC	k1	k2	Calc-in-fit?
Sb 206.833 {463}	☒	10	Fe	0.000059	0.000000	No
			Cr	0.012140	0.000000	No
			Mo	-0.004076	0.000000	No
			V	-0.000611	0.000000	No
			Sn	-0.010736	0.000000	No
			Ti	0.000040	0.000000	No
			Ca	-0.000001	0.000000	No
			Ni	-0.000438	0.000000	No
			Mg	0.000000	0.000000	No
			Al	-0.000002	0.000000	No
Se 196.090 {472}	☒	10	Fe	0.000000	0.000000	No
			Ca	-0.000000	0.000000	No
			Mn	0.000574	0.000000	No
			Mo	0.000111	0.000000	No
			Al	-0.000034	0.000000	No
			V	0.000000	0.000000	No
			Zn	0.000000	0.000000	No
			Sr	0.000137	0.000000	No
			As	-0.000032	0.000000	No
			Be	0.000212	0.000000	No
Si 212.412 {459}	☒	1	Mo	0.019120	0.000000	No
Sn 189.989 {477}	☒	None				
Sr 407.771 { 83}	☒	1	Ca	0.000017	0.000000	No
Ti 334.941 {101}	☒	1	Ca	-0.000008	0.000000	No
Tl 190.856 {477}	☒	11	Co	0.001145	0.000000	No
			Fe	0.000007	0.000000	No
			Al	-0.000011	0.000000	No
			Ba	-0.000051	0.000000	No
			Ti	-0.002651	0.000000	No
			Sb	0.000012	0.000000	No
			Ca	0.000003	0.000000	No
			Cr	0.000230	0.000000	No
			Mg	-0.000003	0.000000	No
			Mn	0.000818	0.000000	No
			V	-0.038621	0.000000	No
V 292.402 {115}	☒	5	Fe	0.000002	0.000000	No
			Cr	-0.002590	0.000000	No
			Mo	-0.005797	0.000000	No
			Ti	0.000364	0.000000	No
			Mn	-0.000693	0.000000	No
Y 224.306 {450}*	☒	None				
Y 360.073 { 94}*	☒	None				
Y 371.030 { 91}*	☒	None				
Zn 206.200 {463}	☒	5	Cr	-0.000965	0.000000	No
			Al	0.000016	0.000000	No
			Ca	0.000003	0.000000	No
			Fe	-0.000026	0.000000	No
			As	0.001128	0.000000	No

	Element, Wavelength and Order	Date of Fit	Date of Cal.	Type of Fit	Weighting	A0	A1	A2	n (Exponent)
	Ag 328.068 {103}	4/1/2015 7:56:29	4/1/2015 7:23:42	Linear	1/Conc	0.000104	0.560123	0.000000	1.000000
	Al 396.152 { 85}	4/1/2015 7:56:29	4/1/2015 7:23:42	Linear	1/Conc	0.004215	0.195933	0.000000	1.000000
	As 189.042 {478}	4/1/2015 7:56:29	4/1/2015 7:23:42	Linear	1/Conc	-0.000122	0.191609	0.000000	1.000000
	Ba 455.403 { 74}	4/1/2015 7:56:29	4/1/2015 7:23:42	Linear	1/Conc	0.018290	11.650963	0.000000	1.000000
	Be 313.042 {108}	4/1/2015 7:56:29	4/1/2015 7:23:42	Linear	1/Conc	-0.000354	8.505565	0.000000	1.000000
	Ca 317.933 {106}	4/1/2015 7:56:29	4/1/2015 7:23:42	Linear	1/Conc	0.012542	0.273141	0.000000	1.000000
	Cd 226.502 {449}	4/1/2015 7:56:29	4/1/2015 7:23:42	Linear	1/Conc	-0.000514	5.066324	0.000000	1.000000
	Co 228.616 {447}	4/1/2015 7:56:29	4/1/2015 7:23:42	Linear	1/Conc	0.000431	2.342904	0.000000	1.000000
	Cr 267.716 {126}	4/1/2015 7:56:29	4/1/2015 7:23:42	Linear	1/Conc	0.000098	0.546606	0.000000	1.000000
	Cu 324.754 {104}	4/1/2015 7:56:29	4/1/2015 7:23:42	Linear	1/Conc	0.002977	0.772717	0.000000	1.000000
	Fe 259.940 {130}	4/1/2015 7:56:29	4/1/2015 7:23:42	Linear	1/Conc	0.001643	0.141226	0.000000	1.000000
	In 230.606 {446}*	4/1/2015 7:56:29	5/5/2010 12:30:54	Linear	1/Conc	0.000000	0.000000	0.000000	1.000000
	K 766.490 { 44}	4/1/2015 7:56:29	4/1/2015 7:23:42	Linear	1/Conc	-0.022744	0.217236	0.000000	1.000000
	Mg 279.079 {121}	4/1/2015 7:56:29	4/1/2015 7:23:42	Linear	1/Conc	-0.000074	0.024142	0.000000	1.000000
	Mn 257.610 {131}	4/1/2015 7:56:29	4/1/2015 7:23:42	Linear	1/Conc	0.000403	2.964628	0.000000	1.000000
	Mo 202.030 {467}	4/1/2015 7:56:29	4/1/2015 7:23:42	Linear	1/Conc	0.000382	1.154529	0.000000	1.000000
	Na 589.592 { 57}	4/1/2015 7:56:29	4/1/2015 7:23:42	Linear	1/Conc	0.055448	0.696775	0.000000	1.000000
	Ni 231.604 {445}	4/1/2015 7:56:29	4/1/2015 7:23:42	Linear	1/Conc	-0.000267	1.301187	0.000000	1.000000
	Pb 220.353 {453}	4/1/2015 7:56:29	4/1/2015 7:23:42	Linear	1/Conc	-0.003979	1.386811	0.000000	1.000000
	Sb 206.833 {463}	4/1/2015 7:56:29	4/1/2015 7:23:42	Linear	1/Conc	0.000516	0.232233	0.000000	1.000000
	Se 196.090 {472}	4/1/2015 7:56:29	4/1/2015 7:23:42	Linear	1/Conc	-0.000693	0.139919	0.000000	1.000000
	Si 212.412 {459}	4/1/2015 7:56:29	4/1/2015 7:23:42	Linear	1/Conc	0.004751	0.337455	0.000000	1.000000
	Sn 189.989 {477}	4/1/2015 7:56:29	4/1/2015 7:23:42	Linear	1/Conc	0.000402	0.435969	0.000000	1.000000
	Sr 407.771 { 83}	4/1/2015 7:56:29	4/1/2015 7:23:42	Linear	1/Conc	0.001090	19.059384	0.000000	1.000000
	Ti 334.941 {101}	4/1/2015 7:56:29	4/1/2015 7:23:42	Linear	1/Conc	0.002209	1.949982	0.000000	1.000000
	Tl 190.856 {477}	4/1/2015 7:56:29	4/1/2015 7:23:42	Linear	1/Conc	-0.002962	0.681689	0.000000	1.000000
	V 292.402 {115}	4/1/2015 7:56:29	4/1/2015 7:23:42	Linear	1/Conc	0.000138	0.649500	0.000000	1.000000
	Y 224.306 {450}*	<not fit>	<Never Calibrated>	Linear	1/Conc	0.000000	0.000000	0.000000	1.000000
	Y 360.073 { 94}*	<not fit>	<Never Calibrated>	Linear	1/Conc	0.000000	0.000000	0.000000	1.000000
	Y 371.030 { 91}*	<not fit>	<Never Calibrated>	Linear	1/Conc	0.000000	0.000000	0.000000	1.000000
	Zn 206.200 {463}	4/1/2015 7:56:29	4/1/2015 7:23:42	Linear	1/Conc	0.002836	3.126197	0.000000	1.000000

Element, Wavelength and Order	Correlation	Std Error of Est	Predicted MDL	Predicted MQL	Status	Reslope		QC Norm	
						Slope	Y-int	Slope factor	Offset
Ag 328.068 {103}	0.999935	0.000059	0.000451	0.001502	OK.	1.000000	0.000000	1	0
Al 396.152 { 85}	0.999971	0.002398	0.014073	0.046910	OK.	1.000000	0.000000	1	0
As 189.042 {478}	0.999936	0.000174	0.000672	0.002239	OK.	1.000000	0.000000	1	0
Ba 455.403 { 74}	0.999941	0.010189	0.000335	0.001116	OK.	1.000000	0.000000	1	0
Be 313.042 {108}	0.999975	0.004857	0.000119	0.000398	OK.	1.000000	0.000000	1	0
Ca 317.933 {106}	1.000000	0.000410	0.004560	0.015199	OK.	1.000000	0.000000	1	0
Cd 226.502 {449}	0.999962	0.003574	0.000040	0.000133	OK.	1.000000	0.000000	1	0
Co 228.616 {447}	0.999948	0.001933	0.000092	0.000307	OK.	1.000000	0.000000	1	0
Cr 267.716 {126}	0.999974	0.000314	0.000279	0.000929	OK.	1.000000	0.000000	1	0
Cu 324.754 {104}	0.999969	0.000487	0.000291	0.000971	OK.	1.000000	0.000000	1	0
Fe 259.940 {130}	0.999965	0.001894	0.004272	0.014240	OK.	1.000000	0.000000	1	0
In 230.606 {446}*	0.000000	0.000000	-1.000000	-1.000000	Warnin	1.000000	0.000000	1	0
K 766.490 { 44}	0.999899	0.004969	0.029247	0.097489	OK.	1.000000	0.000000	1	0
Mg 279.079 {121}	0.999991	0.000164	0.031259	0.104196	OK.	1.000000	0.000000	1	0
Mn 257.610 {131}	0.999910	0.003202	0.000045	0.000150	OK.	1.000000	0.000000	1	0
Mo 202.030 {467}	0.999911	0.001241	0.000117	0.000390	OK.	1.000000	0.000000	1	0
Na 589.592 { 57}	0.999978	0.007388	0.009028	0.030092	OK.	1.000000	0.000000	1	0
Ni 231.604 {445}	0.999948	0.001069	0.000162	0.000541	OK.	1.000000	0.000000	1	0
Pb 220.353 {453}	0.999782	0.002345	0.000422	0.001408	OK.	1.000000	0.000000	1	0
Sb 206.833 {463}	0.999925	0.000228	0.000912	0.003039	OK.	1.000000	0.000000	1	0
Se 196.090 {472}	0.999972	0.000084	0.001420	0.004732	OK.	1.000000	0.000000	1	0
Si 212.412 {459}	0.984815	0.004883	0.000448	0.001492	OK.	1.000000	0.000000	1	0
Sn 189.989 {477}	0.999706	0.000852	0.000250	0.000832	OK.	1.000000	0.000000	1	0
Sr 407.771 { 83}	0.999861	0.025619	0.000124	0.000412	OK.	1.000000	0.000000	1	0
Ti 334.941 {101}	0.999907	0.002145	0.000119	0.000396	OK.	1.000000	0.000000	1	0
Tl 190.856 {477}	0.999974	0.000382	0.000548	0.001827	OK.	1.000000	0.000000	1	0
V 292.402 {115}	0.999869	0.000839	0.000300	0.001000	OK.	1.000000	0.000000	1	0
Y 224.306 {450}*	0.000000	0.000000	-1.000000	-1.000000	Warnin	1.000000	0.000000	1	0
Y 360.073 { 94}*	0.000000	0.000000	-1.000000	-1.000000	Warnin	1.000000	0.000000	1	0
Y 371.030 { 91}*	0.000000	0.000000	-1.000000	-1.000000	Warnin	1.000000	0.000000	1	0
Zn 206.200 {463}	0.999946	0.002605	0.000047	0.000156	OK.	1.000000	0.000000	1	0

Zoom In
Zoom Out

Sample Name: Blank Acquired: 4/2/2015 7:01:56 Type: Cal
Method: 60102007_041712(v211) Mode: IR Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.0002	.0025	-.0003	.0087	.0000	.0080	-.0005	.0003	.0001
Stddev	.0000	.0014	.0001	.0030	.0008	.0011	.0001	.0000	.0001
%RSD	5.504	54.82	30.77	35.04	2015.	13.58	16.30	17.14	135.4
#1	.0002	.0041	-.0002	.0114	-.0007	.0088	-.0006	.0003	.0000
#2	.0002	.0013	-.0003	.0092	.0008	.0084	-.0004	.0003	.0001
#3	.0002	.0023	-.0003	.0054	.0000	.0068	-.0005	.0003	.0003

Elem	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.0036	.0020	-.0157	-.0002	.0003	.0008	.0218	-.0003	-.0032
Stddev	.0001	.0004	.0023	.0008	.0001	.0002	.0041	.0001	.0005
%RSD	3.733	20.26	14.70	349.3	21.46	26.83	19.00	23.88	15.76
#1	.0038	.0019	-.0155	-.0005	.0004	.0009	.0224	-.0002	-.0038
#2	.0036	.0025	-.0182	.0006	.0003	.0008	.0174	-.0003	-.0029
#3	.0035	.0017	-.0136	-.0008	.0002	.0005	.0257	-.0004	-.0030

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.0009	-.0006	.0063	.0005	.0012	.0028	-.0037	-.0002	.0024
Stddev	.0001	.0002	.0000	.0001	.0016	.0002	.0003	.0003	.0001
%RSD	15.82	30.76	.7399	11.67	138.5	5.704	8.316	155.8	3.436
#1	.0007	-.0004	.0063	.0005	.0027	.0028	-.0033	-.0004	.0025
#2	.0010	-.0007	.0064	.0005	-.0005	.0026	-.0039	.0001	.0024
#3	.0010	-.0007	.0063	.0004	.0013	.0030	-.0037	-.0002	.0023

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3165.5	7808.4	43702.	3698.1
Stddev	5.4	8.1	96.	29.0
%RSD	.17107	.10379	.21945	.78326
#1	3171.4	7817.4	43623.	3722.1
#2	3160.8	7806.4	43809.	3665.9
#3	3164.2	7801.5	43676.	3706.3

Zoom In
Zoom Out

Sample Name: LowStd Acquired: 4/2/2015 7:05:15 Type: Cal
Method: 60102007_041712(v211) Mode: IR Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.0373	1.903	.0974	5.822	4.342	2.762	2.569	1.220	.2810	.4311
Stddev	.0003	.003	.0000	.004	.002	.007	.003	.001	.0011	.0008
%RSD	.7045	.1448	.0438	.0657	.0462	.2549	.1051	.0867	.4051	.1940
#1	.0374	1.900	.0974	5.822	4.341	2.755	2.566	1.220	.2821	.4317
#2	.0375	1.902	.0973	5.826	4.344	2.762	2.571	1.220	.2810	.4314
#3	.0370	1.906	.0974	5.818	4.341	2.769	2.571	1.222	.2798	.4302

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1.279	1.581	.2330	1.601	.6146	5.486	.6890	.6044	.1227	.0721
Stddev	.002	.006	.0009	.005	.0011	.017	.0009	.0004	.0005	.0002
%RSD	.1386	.3637	.3720	.3083	.1800	.3120	.1366	.0651	.3720	.2835
#1	1.281	1.579	.2324	1.604	.6137	5.473	.6894	.6044	.1232	.0723
#2	1.277	1.587	.2340	1.602	.6143	5.480	.6897	.6040	.1224	.0719
#3	1.280	1.576	.2327	1.595	.6159	5.506	.6879	.6048	.1224	.0720

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.3000	.2375	10.17	1.056	.3013	.3697	1.561
Stddev	.0003	.0003	.01	.002	.0005	.0010	.002
%RSD	.0864	.1413	.1045	.2259	.1638	.2626	.1111
#1	.3002	.2376	10.16	1.059	.3007	.3707	1.560
#2	.3001	.2377	10.17	1.056	.3017	.3697	1.562
#3	.2997	.2371	10.18	1.054	.3014	.3688	1.563

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2934.7	7721.8	42744.	3672.6
Stddev	2.5	7.4	145.	16.6
%RSD	.08360	.09558	.33951	.45317
#1	2937.2	7729.9	42722.	3689.0
#2	2932.3	7715.6	42611.	3672.9
#3	2934.6	7719.9	42899.	3655.7

Zoom In
Zoom Out

Sample Name: MidStd Acquired: 4/2/2015 7:08:19 Type: Cal
Method: 60102007_041712(v211) Mode: IR Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.1414	7.925	.3963	23.32	17.34	11.38	10.28	4.835	1.117	1.685
Stddev	.0006	.014	.0004	.04	.01	.02	.01	.005	.001	.003
%RSD	.4528	.1740	.1027	.1676	.0498	.1430	.1191	.0959	.1152	.1882
#1	.1415	7.918	.3962	23.32	17.34	11.38	10.27	4.832	1.119	1.683
#2	.1419	7.916	.3959	23.28	17.34	11.36	10.28	4.833	1.116	1.684
#3	.1406	7.941	.3967	23.36	17.35	11.39	10.30	4.840	1.117	1.689

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5.324	6.664	.9511	6.211	2.400	22.79	2.711	2.527	.4903	.2916
Stddev	.006	.007	.0018	.044	.009	.04	.003	.003	.0003	.0005
%RSD	.1204	.1065	.1886	.7155	.3636	.1661	.1198	.1326	.0554	.1870
#1	5.317	6.670	.9531	6.172	2.391	22.78	2.710	2.523	.4906	.2923
#2	5.324	6.656	.9505	6.259	2.399	22.77	2.708	2.529	.4901	.2912
#3	5.330	6.666	.9497	6.203	2.409	22.84	2.715	2.529	.4903	.2915

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.7469	.8893	39.29	4.120	1.232	1.409	6.236
Stddev	.0004	.0013	.03	.004	.004	.004	.009
%RSD	.0523	.1470	.0843	.1072	.3343	.2727	.1394
#1	.7473	.8905	39.27	4.123	1.228	1.412	6.230
#2	.7465	.8879	39.28	4.122	1.235	1.405	6.232
#3	.7470	.8895	39.33	4.114	1.235	1.409	6.246

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2653.1	7452.3	41491.	3683.3
Stddev	8.8	13.9	134.	13.7
%RSD	.33060	.18617	.32389	.37200
#1	2663.3	7465.7	41360.	3689.4
#2	2648.3	7453.4	41629.	3692.9
#3	2647.8	7438.0	41485.	3667.6

Zoom In
Zoom Out

Sample Name: HighStd Acquired: 4/2/2015 7:11:53 Type: Cal
Method: 60102007_041712(v211) Mode: IR Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.2828	15.83	.8049	46.11	34.18	22.42	20.44	9.619	2.202	3.362
Stddev	.0012	.05	.0007	.28	.13	.08	.01	.000	.002	.004
%RSD	.4117	.3183	.0825	.6176	.3885	.3476	.0407	.0020	.0942	.1260
#1	.2838	15.87	.8043	46.43	34.31	22.48	20.43	9.619	2.204	3.365
#2	.2830	15.84	.8056	46.03	34.19	22.44	20.43	9.619	2.200	3.365
#3	.2815	15.77	.8047	45.88	34.04	22.33	20.44	9.620	2.203	3.357

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	10.41	13.43	1.881	12.05	4.806	45.35	5.367	5.153	.9951	.5904
Stddev	.04	.06	.008	.03	.005	.16	.001	.009	.0012	.0004
%RSD	.4273	.4321	.4219	.2504	.1026	.3540	.0258	.1798	.1224	.0672
#1	10.45	13.48	1.884	12.08	4.801	45.50	5.366	5.160	.9962	.5901
#2	10.40	13.43	1.886	12.06	4.807	45.38	5.368	5.142	.9952	.5909
#3	10.37	13.37	1.872	12.02	4.811	45.18	5.365	5.155	.9938	.5902

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1.330	1.773	78.14	7.959	2.452	2.837	12.38
Stddev	.000	.002	.30	.043	.004	.005	.00
%RSD	.0336	.1228	.3871	.5393	.1435	.1646	.0245
#1	1.330	1.772	78.47	7.998	2.451	2.842	12.38
#2	1.330	1.771	78.09	7.913	2.449	2.838	12.38
#3	1.331	1.775	77.87	7.965	2.456	2.832	12.39

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2455.1	7135.7	40654.	3677.9
Stddev	1.5	3.0	86.	12.1
%RSD	.06309	.04246	.21256	.32863
#1	2454.2	7138.2	40557.	3677.8
#2	2456.9	7132.3	40685.	3665.9
#3	2454.2	7136.6	40721.	3690.0

Zoom In
Zoom Out

Sample Name: HSTD Acquired: 4/2/2015 7:15:34 Type: QC
Method: 60102007_041712(v211) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5004	81.35	4.085	4.025	4.044	80.83	4.031	4.033	4.008	4.025
Stddev	.0014	.11	.004	.008	.005	.12	.001	.003	.003	.009
%RSD	.2706	.1344	.0893	.2010	.1153	.1541	.0219	.0650	.0796	.2240
#1	.4988	81.24	4.082	4.016	4.039	80.70	4.030	4.031	4.010	4.014
#2	.5009	81.46	4.084	4.030	4.046	80.95	4.030	4.032	4.004	4.031
#3	.5014	81.35	4.089	4.030	4.048	80.84	4.032	4.036	4.010	4.029
Check ?	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass
Value										
Range										

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	80.37	82.15	80.80	3.973	4.053	81.17	4.032	4.065	4.082	4.078
Stddev	.19	.02	.06	.012	.002	.06	.006	.003	.007	.004
%RSD	.2343	.0269	.0710	.2884	.0477	.0781	.1379	.0702	.1784	.0886
#1	80.16	82.13	80.73	3.983	4.051	81.11	4.027	4.068	4.076	4.079
#2	80.50	82.15	80.85	3.975	4.051	81.24	4.031	4.062	4.079	4.074
#3	80.47	82.17	80.81	3.961	4.055	81.17	4.038	4.066	4.090	4.081
Check ?	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass
Value										
Range										

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	3.696	4.035	4.051	3.978	4.015	4.053	4.027
Stddev	.003	.004	.003	.012	.004	.007	.002
%RSD	.0726	.0932	.0802	.2935	.1057	.1856	.0528
#1	3.696	4.031	4.048	3.969	4.018	4.049	4.026
#2	3.693	4.038	4.050	3.991	4.010	4.048	4.029
#3	3.698	4.035	4.054	3.973	4.016	4.062	4.026
Check ?	None	Chk	Pass	Chk	Pass	Chk	Pass
Value							
Range							

Zoom In
Zoom Out

Sample Name: HSTD Acquired: 4/2/2015 7:15:34 Type: QC
Method: 60102007_041712(v211) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2441.6	7071.7	40286.	3667.1
Stddev	1.1	5.9	51.	12.8
%RSD	.04561	.08403	.12592	.34934
#1	2440.4	7076.0	40261.	3670.2
#2	2442.0	7065.0	40344.	3653.0
#3	2442.5	7074.2	40253.	3678.1

Zoom In
Zoom Out

Sample Name: ICV Acquired: 4/2/2015 7:19:19 Type: QC
Method: 60102007_041712(v211) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2538	42.68	2.046	2.158	2.088	43.77	2.020	2.060	2.049	2.025
Stddev	.0006	.19	.001	.004	.010	.19	.002	.001	.002	.005
%RSD	.2222	.4398	.0314	.1957	.4642	.4272	.0868	.0389	.0819	.2676
#1	.2539	42.89	2.046	2.162	2.099	43.97	2.018	2.059	2.047	2.019
#2	.2543	42.56	2.045	2.154	2.081	43.61	2.021	2.060	2.049	2.029
#3	.2532	42.59	2.046	2.157	2.084	43.72	2.021	2.061	2.050	2.027
Check ?	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass
Value										
Range										

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	42.61	43.09	42.06	2.060	1.998	43.23	2.103	2.031	2.044	2.052
Stddev	.22	.26	.26	.011	.001	.17	.002	.006	.003	.000
%RSD	.5103	.5922	.6297	.5553	.0409	.3841	.0891	.2757	.1570	.0154
#1	42.84	43.37	42.35	2.047	1.999	43.42	2.101	2.025	2.047	2.052
#2	42.41	42.87	41.98	2.067	1.997	43.10	2.104	2.033	2.044	2.052
#3	42.57	43.03	41.84	2.067	1.997	43.17	2.103	2.036	2.041	2.052
Check ?	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass
Value										
Range										

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2303	2.104	2.037	2.044	2.100	1.976	2.070
Stddev	.0001	.003	.008	.003	.005	.003	.003
%RSD	.0450	.1360	.3757	.1331	.2593	.1717	.1212
#1	.2305	2.101	2.045	2.043	2.095	1.972	2.067
#2	.2303	2.106	2.031	2.046	2.101	1.977	2.072
#3	.2303	2.105	2.034	2.041	2.106	1.979	2.070
Check ?	None	Chk	Pass	Chk	Pass	Chk	Pass
Value							
Range							

Zoom In
Zoom Out

Sample Name: ICV Acquired: 4/2/2015 7:19:19 Type: QC
Method: 60102007_041712(v211) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2607.9	7309.4	40993.	3649.7
Stddev	7.7	18.1	120.	27.6
%RSD	.29635	.24736	.29235	.75669
#1	2616.8	7329.9	41127.	3618.0
#2	2604.5	7295.8	40895.	3668.0
#3	2602.5	7302.4	40958.	3663.2

Zoom In Zoom Out

Sample Name: ICB Acquired: 4/2/2015 7:25:41 Type: QC
Method: 60102007_041712(v211) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0004	-.0048	.0002	.0000	-.0001	-.0046	-.0001	.0001	.0000	-.0001
Stddev	.0001	.0125	.0003	.0003	.0001	.0011	.0000	.0001	.0003	.0004
%RSD	29.45	257.1	173.2	643.9	154.8	24.67	52.78	151.4	694.2	299.0
#1	.0004	.0026	-.0002	.0000	.0000	-.0059	.0000	.0002	.0004	-.0005
#2	.0006	.0021	.0004	.0004	-.0001	-.0043	-.0001	.0000	-.0001	.0002
#3	.0003	-.0192	.0003	-.0002	-.0002	-.0037	-.0001	.0000	-.0002	.0000
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0007	.0258	.0013	-.0001	.0004	-.0197	-.0001	.0002	.0006	.0001
Stddev	.0034	.0098	.0151	.0000	.0001	.0050	.0001	.0000	.0010	.0008
%RSD	448.0	38.13	1174.	90.71	33.09	25.50	112.5	24.15	176.0	959.0
#1	.0005	.0172	-.0098	-.0001	.0005	-.0139	.0000	.0003	.0000	-.0008
#2	.0018	.0365	.0185	-.0001	.0003	-.0217	-.0002	.0002	.0018	.0007
#3	-.0045	.0236	-.0048	.0000	.0003	-.0233	-.0001	.0002	.0000	.0003
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0018	.0001	.0000	.0002	-.0003	.0000	-.0001
Stddev	.0002	.0004	.000	.0001	.0004	.0003	.0000
%RSD	12.60	309.5	106.0	26.50	118.6	1340.	19.20
#1	.0016	.0005	.0000	.0002	-.0001	.0003	-.0001
#2	.0018	-.0002	.0000	.0003	-.0008	.0000	-.0001
#3	.0020	.0000	.0000	.0002	-.0001	-.0002	-.0001
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Zoom In Zoom Out

Sample Name: ICB Acquired: 4/2/2015 7:25:41 Type: QC
Method: 60102007_041712(v211) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3143.3	7710.8	43725.	3687.3
Stddev	10.7	19.5	177.	34.3
%RSD	.34041	.25325	.40461	.93032
#1	3153.7	7732.9	43765.	3719.4
#2	3132.3	7695.9	43879.	3691.4
#3	3143.7	7703.6	43532.	3651.2

Zoom In Zoom Out

Sample Name: CRIA Acquired: 4/2/2015 7:30:12 Type: QC
Method: 60102007_041712(v211) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F.0079	.1719	.0080	.1697	.0043	.8871	.0043	.0445	.0085
Stddev	.0003	.0023	.0003	.0005	.0000	.0022	.0000	.0001	.0004
%RSD	3.624	1.360	3.783	.2935	.6569	.2507	.9365	.2258	4.795
#1	.0082	.1703	.0077	.1700	.0043	.8868	.0043	.0445	.0081
#2	.0076	.1709	.0082	.1700	.0043	.8894	.0044	.0444	.0085
#3	.0080	.1746	.0082	.1691	.0043	.8850	.0043	.0446	.0089
Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	.0100								
Range	-20.00%								

Elem	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0222	.2563	8.589	4.306	.0131	.0408	8.666	.0358	.0044
Stddev	.0003	.0038	.036	.037	.0001	.0000	.008	.0000	.0002
%RSD	1.390	1.500	.4188	.8635	.4374	.0735	.0934	.1088	4.328
#1	.0225	.2553	8.548	4.328	.0131	.0408	8.657	.0358	.0044
#2	.0219	.2606	8.616	4.263	.0132	.0408	8.668	.0358	.0045
#3	.0222	.2531	8.602	4.327	.0131	.0408	8.673	.0358	.0042
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value									
Range									

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0042	.0081	.1329	.0447	.0084	.0082	.0087	.0410	.0186
Stddev	.0005	.0008	.0004	.0002	.0001	.0001	.0006	.0001	.0000
%RSD	12.97	10.38	.3285	.4968	1.346	.9950	6.429	.3305	.1462
#1	.0036	.0085	.1334	.0444	.0083	.0083	.0093	.0411	.0185
#2	.0047	.0071	.1327	.0448	.0085	.0082	.0082	.0409	.0186
#3	.0042	.0087	.1327	.0448	.0083	.0082	.0087	.0410	.0186
Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value									
Range									

Zoom In Zoom Out

Sample Name: CRIA Acquired: 4/2/2015 7:30:12 Type: QC
Method: 60102007_041712(v211) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2991.6	7590.1	42816.	3672.6
Stddev	7.4	6.7	113.	17.9
%RSD	.24851	.08804	.26291	.48666
#1	2995.2	7587.9	42930.	3662.4
#2	2996.6	7584.8	42705.	3693.2
#3	2983.1	7597.6	42814.	3662.0

Zoom In Zoom Out

Sample Name: ICSA Acquired: 4/2/2015 7:35:54 Type: QC
Method: 60102007_041712(v212) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0004	501.2	-.0006	.0004	.0001	479.4	.0000	-.0004	.0004	.0000
Stddev	.0004	2.0	.0018	.0002	.0000	5.0	.000	.0001	.0003	.0002
%RSD	96.32	.3981	292.8	61.07	74.41	1.044	53.17	24.44	98.82	4617.
#1	.0001	499.0	.0013	.0004	.0000	474.6	.0000	-.0003	.0001	-.0001
#2	.0009	502.9	-.0009	.0001	.0001	484.6	.0000	-.0004	.0002	-.0001
#3	.0003	501.7	-.0023	.0006	.0001	478.9	.0000	-.0005	.0008	.0002
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	185.8	.0348	497.2	-.0002	.0004	.1668	.0009	-.0001	-.0006	.0000
Stddev	.5	.0115	1.6	.0001	.0001	.0111	.0003	.0009	.0007	.0009
%RSD	.2596	32.91	.3218	28.99	26.69	6.655	34.17	1003.	117.0	2349.
#1	186.4	.0473	498.8	-.0002	.0006	.1541	.0011	.0000	-.0006	.0002
#2	185.6	.0248	495.6	-.0001	.0004	.1719	.0011	-.0010	.0001	-.0009
#3	185.5	.0323	497.3	-.0002	.0004	.1744	.0006	.0007	-.0014	.0008
Check ?	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0500	-.0001	-.0001	-.0012	-.0006	.0000	-.0020
Stddev	.0006	.0005	.0001	.0002	.0007	.0002	.0000
%RSD	1.267	931.3	54.77	13.73	119.1	602.6	1.746
#1	.0493	-.0006	.0000	-.0012	-.0002	.0003	-.0019
#2	.0503	.0003	-.0001	-.0010	-.0002	-.0001	-.0020
#3	.0505	.0001	-.0001	-.0013	-.0014	-.0001	-.0020
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Zoom In Zoom Out

Sample Name: ICSA Acquired: 4/2/2015 7:35:54 Type: QC
Method: 60102007_041712(v212) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2318.4	6817.2	37234.	3527.8
Stddev	3.4	3.6	86.	7.2
%RSD	.14633	.05348	.23220	.20534
#1	2322.3	6819.6	37135.	3519.6
#2	2315.9	6813.0	37298.	3530.7
#3	2317.1	6819.0	37269.	3533.1

Zoom In Zoom Out

Sample Name: ICSAB Acquired: 4/2/2015 7:40:46 Type: QC
Method: 60102007_041712(v212) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.9780	501.5	1.055	.5233	.5213	483.3	.9253	.4750	.4941	.5447
Stddev	.0027	2.2	.002	.0014	.0019	4.1	.0010	.0006	.0014	.0021
%RSD	.2733	.4363	.2153	.2676	.3560	.8531	.1047	.1287	.2872	.3783
#1	.9755	503.5	1.052	.5218	.5203	487.9	.9264	.4757	.4925	.5427
#2	.9776	501.9	1.056	.5246	.5234	482.0	.9249	.4748	.4952	.5447
#3	.9808	499.2	1.056	.5234	.5201	480.0	.9246	.4745	.4946	.5468
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value										
Range										

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	189.9	.0535	496.8	.5097	.9530	.2054	.9625	.9533	1.054	1.020
Stddev	.4	.0246	.9	.0012	.0005	.0057	.0011	.0011	.004	.001
%RSD	.1958	46.01	.1781	.2265	.0544	2.760	.1149	.1106	.3381	.1085
#1	189.5	.0508	496.0	.5086	.9536	.1993	.9631	.9528	1.056	1.020
#2	190.3	.0794	497.7	.5096	.9527	.2064	.9632	.9545	1.055	1.019
#3	189.8	.0303	496.6	.5109	.9528	.2105	.9612	.9526	1.050	1.022
Check ?	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value										
Range										

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1092	.9691	1.033	1.028	.9520	.4922	.9565
Stddev	.0010	.0016	.003	.002	.0024	.0013	.0016
%RSD	.9330	.1662	.3298	.2076	.2552	.2543	.1707
#1	.1101	.9696	1.029	1.026	.9493	.4908	.9583
#2	.1094	.9704	1.036	1.029	.9525	.4931	.9555
#3	.1081	.9673	1.033	1.030	.9541	.4928	.9556
Check ?	None	Chk Pass	None	None	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Zoom In Zoom Out

Sample Name: ICSAB Acquired: 4/2/2015 7:40:46 Type: QC
Method: 60102007_041712(v212) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2263.4	6700.3	36716.	3475.8
Stddev	2.4	14.2	103.	9.3
%RSD	.10703	.21239	.28104	.26746
#1	2260.7	6683.8	36834.	3465.1
#2	2265.2	6709.1	36642.	3481.1
#3	2264.3	6707.8	36672.	3481.3

Zoom In Zoom Out

Sample Name: CCV Acquired: 4/2/2015 7:45:32 Type: QC
Method: 60102007_041712(v212) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2541	41.07	2.042	2.075	2.072	41.23	2.037	2.041	2.049	2.061
Stddev	.0001	.08	.003	.006	.001	.03	.003	.001	.004	.003
%RSD	.0530	.1853	.1516	.2782	.0499	.0833	.1236	.0674	.2159	.1560
#1	.2539	41.10	2.040	2.082	2.072	41.23	2.036	2.039	2.049	2.058
#2	.2542	40.98	2.045	2.071	2.071	41.19	2.036	2.040	2.044	2.064
#3	.2541	41.13	2.041	2.074	2.073	41.26	2.040	2.042	2.053	2.060
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value Range										

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	41.55	41.90	41.56	2.091	2.037	41.59	2.064	1.980	2.034	2.038
Stddev	.06	.10	.10	.005	.009	.06	.002	.003	.003	.003
%RSD	.1507	.2293	.2453	.2408	.4261	.1469	.0973	.1633	.1402	.1591
#1	41.61	41.79	41.44	2.092	2.028	41.64	2.062	1.983	2.030	2.035
#2	41.49	41.93	41.60	2.085	2.039	41.52	2.066	1.977	2.035	2.041
#3	41.56	41.97	41.63	2.095	2.045	41.61	2.063	1.980	2.036	2.038
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value Range										

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.107	2.069	2.063	2.072	2.014	2.065	2.037
Stddev	.001	.004	.002	.002	.005	.007	.003
%RSD	.0572	.2117	.0941	.1031	.2273	.3198	.1572
#1	2.106	2.064	2.065	2.072	2.019	2.063	2.035
#2	2.109	2.072	2.062	2.069	2.011	2.059	2.037
#3	2.108	2.071	2.062	2.074	2.012	2.072	2.041
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Pass
Value Range							

Zoom In Zoom Out

Sample Name: CCV Acquired: 4/2/2015 7:45:32 Type: QC
Method: 60102007_041712(v212) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2609.0	7237.1	40490.	3585.1
Stddev	2.1	5.9	222.	12.1
%RSD	.07937	.08095	.54855	.33721
#1	2606.7	7243.7	40580.	3595.5
#2	2610.7	7235.2	40653.	3587.9
#3	2609.6	7232.5	40237.	3571.8

Zoom In Zoom Out

Sample Name: CCB Acquired: 4/2/2015 7:50:59 Type: QC
Method: 60102007_041712(v212) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0005	.0062	.0001	.0004	.0004	.0060	.0001	.0002	.0000	.0005
Stddev	.0001	.0097	.0004	.0002	.0000	.0042	.0001	.0000	.0001	.0002
%RSD	29.34	157.8	316.9	61.71	13.39	70.12	69.68	28.05	349.0	39.10
#1	.0006	.0173	.0006	.0006	.0004	.0098	.0002	.0001	.0000	.0006
#2	.0006	-.0009	.0000	.0005	.0004	.0066	.0001	.0002	-.0001	.0003
#3	.0003	.0021	-.0002	.0001	.0003	.0015	.0000	.0001	.0001	.0005
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0150	.0105	.0014	.0002	.0003	-.0132	.0002	-.0002	-.0001	-.0001
Stddev	.0047	.0112	.0089	.0000	.0002	.0082	.0001	.0004	.0005	.0013
%RSD	31.54	106.7	636.4	15.67	69.58	62.06	64.46	188.9	364.5	1229.
#1	.0199	.0058	.0101	.0002	.0005	-.0210	.0004	.0002	.0004	.0013
#2	.0104	.0024	-.0077	.0002	.0003	-.0047	.0002	-.0003	-.0006	-.0005
#3	.0147	.0232	.0019	.0002	.0001	-.0139	.0001	-.0006	-.0002	-.0011
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0043	-.0001	.0003	.0002	.0002	.0003	.0000
Stddev	.0009	.0001	.0001	.0000	.0000	.0002	.0000
%RSD	21.43	99.10	19.85	20.18	15.25	70.70	163.9
#1	.0038	-.0001	.0004	.0002	.0002	.0003	.0000
#2	.0038	-.0002	.0003	.0001	.0003	.0005	.0000
#3	.0054	.0000	.0003	.0001	.0002	.0001	.0000
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Pass
High Limit							
Low Limit							

Zoom In Zoom Out

Sample Name: CCB Acquired: 4/2/2015 7:50:59 Type: QC
Method: 60102007_041712(v212) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3112.1	7537.7	42626.	3553.7
Stddev	11.1	23.9	261.	20.0
%RSD	.35628	.31699	.61323	.56295
#1	3124.8	7564.3	42365.	3544.7
#2	3106.6	7530.8	42888.	3576.7
#3	3104.7	7518.1	42625.	3539.9

Zoom In Zoom Out

Sample Name: MP28741-MB1 Acquired: 4/2/2015 7:54:42 Type: QC
Method: 60102007_041712(v212) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0003	.0102	-.0006	.0002	.0001	.0187	.0000	.0000	-.0001	.0003
Stddev	.0002	.0086	.0006	.0001	.0000	.0040	.000	.000	.0001	.0000
%RSD	85.41	83.82	101.9	42.69	33.95	21.24	66.26	234.8	97.39	10.94
#1	.0003	.0184	-.0012	.0002	.0001	.0151	-.0001	.0001	-.0001	.0003
#2	.0000	.0109	-.0005	.0004	.0000	.0181	.0000	-.0001	.0000	.0002
#3	.0005	.0013	.0000	.0002	.0001	.0230	.0000	-.0001	-.0003	.0003
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0038	-.0031	-.0089	.0002	-.0004	-.0171	.0000	-.0004	-.0002	.0002
Stddev	.0020	.0116	.0399	.0000	.0001	.0090	.000	.0003	.0006	.0009
%RSD	52.24	368.8	450.5	6.704	32.61	52.68	226.0	70.63	394.9	415.3
#1	-.0016	-.0097	.0310	.0002	-.0002	-.0093	.0000	-.0005	.0000	.0008
#2	-.0053	.0102	-.0488	.0002	-.0003	-.0151	-.0001	-.0001	-.0008	.0006
#3	-.0045	-.0100	-.0088	.0002	-.0005	-.0270	.0000	-.0005	.0004	-.0008
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0267	-.0002	.0001	-.0002	-.0008	.0000	.0014
Stddev	.0003	.0003	.0000	.0000	.0006	.000	.0000
%RSD	1.159	167.7	53.22	5.814	80.36	150.3	2.180
#1	.0271	.0001	.0001	-.0002	-.0015	.0000	.0014
#2	.0265	-.0002	.0000	-.0003	-.0007	.0000	.0014
#3	.0266	-.0004	.0000	-.0002	-.0002	-.0001	.0015
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Zoom In Zoom Out

Sample Name: MP28741-MB1 Acquired: 4/2/2015 7:54:42 Type: QC
Method: 60102007_041712(v212) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3153.2	7689.6	43655.	3600.7
Stddev	7.8	16.9	99.	24.7
%RSD	.24762	.22041	.22713	.68636
#1	3161.1	7708.0	43542.	3572.2
#2	3153.0	7686.1	43728.	3613.4
#3	3145.4	7674.7	43695.	3616.5

Zoom In Zoom Out

Sample Name: MP28741-B1 Acquired: 4/2/2015 7:58:52 Type: QC
Method: 60102007_041712(v212) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0517	28.58	2.090	2.174	.0548	26.69	.0516	.5245	.2144	.2737
Stddev	.0002	.09	.005	.000	.0002	.10	.0000	.0002	.0003	.0004
%RSD	.3001	.3079	.2448	.0150	.3375	.3811	.0308	.0460	.1539	.1470
#1	.0516	28.67	2.092	2.174	.0549	26.79	.0516	.5242	.2147	.2742
#2	.0516	28.49	2.095	2.175	.0546	26.59	.0516	.5246	.2144	.2734
#3	.0519	28.57	2.085	2.174	.0549	26.69	.0516	.5247	.2140	.2735
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value										
Range										

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	27.82	27.34	26.71	.5500	.5382	27.04	.5376	.4915	.5261	2.080
Stddev	.02	.08	.18	.0007	.0008	.08	.0006	.0003	.0010	.001
%RSD	.0861	.3096	.6610	.1360	.1399	.2889	.1062	.0710	.1869	.0571
#1	27.82	27.44	26.83	.5500	.5375	27.12	.5379	.4911	.5269	2.082
#2	27.80	27.27	26.51	.5507	.5390	26.97	.5380	.4918	.5264	2.080
#3	27.85	27.32	26.80	.5492	.5381	27.02	.5369	.4914	.5250	2.080
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value										
Range										

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0375	.5815	.5621	.5522	2.014	.5210	.5202
Stddev	.0004	.0012	.0009	.0012	.004	.0009	.0001
%RSD	.9629	.2054	.1595	.2207	.2245	.1755	.0231
#1	.0376	.5823	.5631	.5529	2.011	.5200	.5201
#2	.0377	.5821	.5614	.5529	2.013	.5218	.5202
#3	.0370	.5801	.5617	.5508	2.019	.5213	.5204
Check ?	None	Chk Pass	None	None	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Zoom In Zoom Out

Sample Name: MP28741-B1 Acquired: 4/2/2015 7:58:52 Type: QC
Method: 60102007_041712(v212) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2780.8	7410.9	41435.	3592.9
Stddev	5.5	7.9	153.	25.3
%RSD	.19926	.10609	.36975	.70442
#1	2780.8	7404.1	41611.	3564.0
#2	2786.3	7419.5	41362.	3611.1
#3	2775.2	7409.1	41331.	3603.7

Zoom In Zoom Out

Sample Name: FA23172-1 Acquired: 4/2/2015 8:02:48 Type: Unk
Method: 60102007_041712(v212) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)
Avg	-.0001	.0307	-.0014	.1421	.0000	F528.0	-.0004	-.0001	-.0001
Stddev	.0002	.0136	.0007	.0009	.0001	6.9	.0000	.0000	.0002
%RSD	170.8	44.53	47.75	.6317	989.3	1.305	8.977	44.33	294.5
#1	.0001	.0450	-.0009	.1411	.0000	523.1	-.0005	-.0001	-.0001
#2	-.0002	.0292	-.0022	.1429	.0002	525.0	-.0005	-.0001	-.0003
#3	-.0001	.0178	-.0011	.1421	-.0001	535.9	-.0004	-.0001	.0001

Elem	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
IS Ref	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)
Avg	-.0011	.0574	22.96	135.6	.0598	-.0012	F1035.	-.0003	-.0047
Stddev	.0001	.0014	.08	.9	.0002	.0001	24.	.0001	.0003
%RSD	8.343	2.404	.3307	.6448	.3495	9.040	2.302	17.63	5.977
#1	-.0011	.0581	22.87	134.7	.0598	-.0011	1051.	-.0004	-.0047
#2	-.0012	.0582	23.01	135.8	.0601	-.0012	1045.	-.0003	-.0050
#3	-.0010	.0558	23.00	136.4	.0597	-.0014	1007.	-.0003	-.0045

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	.0008	-.0019	11.09	-.0016	F6.392	-.0030	-.0031	-.0001	.0064
Stddev	.0003	.0006	.02	.0003	.048	.0000	.0011	.0004	.0001
%RSD	37.70	33.22	.1527	19.76	.7515	.8861	36.43	313.1	1.337
#1	.0012	-.0012	11.08	-.0019	6.379	-.0030	-.0033	-.0003	.0063
#2	.0008	-.0022	11.08	-.0012	6.445	-.0030	-.0042	-.0003	.0064
#3	.0005	-.0023	11.11	-.0015	6.352	-.0030	-.0019	.0003	.0064

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	2104.8	6237.8	34144.	3407.2
Stddev	3.5	8.6	110.	34.8
%RSD	.16398	.13745	.32186	1.0207
#1	2102.2	6235.9	34152.	3447.4
#2	2108.7	6247.2	34030.	3386.4
#3	2103.5	6230.4	34249.	3387.8

Zoom In Zoom Out

Sample Name: MP28741-D1 Acquired: 4/2/2015 8:07:18 Type: Unk
Method: 60102007_041712(v212) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)
Avg	.0000	.0067	-.0016	.1457	.0001	F547.8	-.0005	-.0001	-.0004
Stddev	.000	.0230	.0009	.0004	.0000	4.2	.0000	.0001	.0002
%RSD	1756.	346.0	60.28	.2890	53.58	.7658	8.227	75.96	56.06
#1	.0004	.0251	-.0006	.1456	.0000	545.7	-.0006	-.0002	-.0005
#2	-.0001	.0140	-.0017	.1454	.0001	545.1	-.0005	-.0002	-.0001
#3	-.0003	-.0192	-.0025	.1462	.0000	552.7	-.0005	.0000	-.0006

Elem	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
IS Ref	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)
Avg	-.0008	.0511	23.18	138.8	.0607	-.0015	F980.6	-.0002	-.0043
Stddev	.0003	.0027	.02	.0	.0002	.0001	13.5	.0001	.0001
%RSD	35.67	5.207	.0771	.0354	.3299	8.997	1.373	63.09	2.782
#1	-.0009	.0534	23.19	138.9	.0608	-.0015	983.0	-.0003	-.0044
#2	-.0004	.0482	23.19	138.8	.0609	-.0017	992.8	-.0001	-.0042
#3	-.0009	.0517	23.16	138.8	.0605	-.0014	966.1	-.0001	-.0042

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	.0007	-.0028	11.25	-.0018	F6.450	-.0034	-.0027	.0000	.0055
Stddev	.0008	.0019	.02	.0001	.108	.0001	.0018	.0004	.0001
%RSD	107.4	69.08	.1480	5.542	1.679	3.690	66.49	37320.	1.128
#1	.0012	-.0050	11.26	-.0017	6.340	-.0035	-.0045	-.0005	.0055
#2	-.0002	-.0016	11.25	-.0018	6.452	-.0034	-.0028	.0003	.0055
#3	.0013	-.0017	11.23	-.0019	6.557	-.0032	-.0009	.0002	.0056

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	2088.8	6169.2	33708.	3317.3
Stddev	7.3	20.8	177.	21.7
%RSD	.34766	.33634	.52630	.65313
#1	2081.2	6146.3	33556.	3332.7
#2	2095.7	6186.7	33665.	3326.6
#3	2089.3	6174.6	33903.	3292.5

Zoom In Zoom Out

Sample Name: MP28741-SD1 Acquired: 4/2/2015 8:11:49 Type: Unk
Method: 60102007_041712(v212) Mode: CONC Corr. Factor: 5.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)
Avg	.0031	.0441	-.0021	.1514	-.0001	587.3	-.0004	-.0005	-.0003
Stddev	.0025	.0187	.0024	.0005	.0002	1.0	.0002	.0001	.0013
%RSD	80.78	42.32	116.1	.3346	182.4	.1643	43.07	20.42	389.2
#1	.0026	.0309	-.0036	.1520	.0000	588.4	-.0003	-.0004	-.0008
#2	.0008	.0655	.0007	.1510	-.0004	586.7	-.0006	-.0006	-.0014
#3	.0058	.0360	-.0033	.1513	.0001	586.9	-.0003	-.0006	.0012

Elem	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
IS Ref	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)
Avg	.0017	-.0028	23.29	146.9	.0628	-.0075	F1409.	-.0014	-.0167
Stddev	.0013	.0175	.12	.5	.0003	.0007	11.	.0008	.0023
%RSD	78.70	634.1	.5256	.3375	.4162	8.751	.7987	60.46	13.66
#1	.0003	-.0146	23.15	147.0	.0628	-.0078	1399.	-.0022	-.0188
#2	.0030	.0173	23.32	146.3	.0626	-.0068	1421.	-.0005	-.0172
#3	.0018	-.0110	23.39	147.3	.0631	-.0080	1407.	-.0014	-.0143

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	-.0069	-.0114	11.53	-.0032	6.725	.0005	.0014	-.0002	.0076
Stddev	.0015	.0026	.01	.0009	.010	.0004	.0023	.0010	.0003
%RSD	22.32	23.15	.1182	27.93	.1488	85.82	157.1	586.4	4.557
#1	-.0052	-.0127	11.51	-.0023	6.725	.0006	.0041	.0003	.0077
#2	-.0075	-.0130	11.53	-.0041	6.715	.0009	.0000	.0005	.0072
#3	-.0081	-.0083	11.54	-.0032	6.735	.0000	.0002	-.0014	.0079

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	2515.1	6920.6	38189.	3511.0
Stddev	2.1	7.8	29.	19.4
%RSD	.08547	.11200	.07616	.55240
#1	2515.6	6924.7	38221.	3490.9
#2	2512.7	6911.6	38164.	3512.6
#3	2516.9	6925.3	38183.	3529.6

Zoom In Zoom Out

Sample Name: MP28741-PS1 Acquired: 4/2/2015 8:16:05 Type: Unk
Method: 60102007_041712(v212) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)
Avg	.0527	2.633	.1135	.4037	.0528	F521.9	.0498	.0496	.0515
Stddev	.0002	.026	.0002	.0013	.0002	10.3	.0001	.0002	.0004
%RSD	.3896	.9737	.2179	.3099	.4568	1.972	.1391	.4073	.7353
#1	.0526	2.613	.1136	.4051	.0530	519.2	.0497	.0494	.0517
#2	.0525	2.662	.1132	.4035	.0528	513.3	.0498	.0495	.0511
#3	.0529	2.624	.1136	.4026	.0525	533.3	.0499	.0498	.0517

Elem	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
IS Ref	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)
Avg	.1069	3.031	33.51	137.4	.1100	.1000	F942.0	.1013	.0453
Stddev	.0009	.007	.08	.5	.0004	.0003	18.8	.0004	.0002
%RSD	.8497	.2355	.2270	.3564	.3927	.2757	1.995	.3641	.4878
#1	.1079	3.039	33.53	137.9	.1104	.0999	963.7	.1015	.0451
#2	.1064	3.026	33.58	137.0	.1095	.0999	932.6	.1009	.0452
#3	.1063	3.027	33.43	137.2	.1101	.1003	929.8	.1015	.0455

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	.1081	.1150	10.93	.0477	F6.355	.1002	.0935	.0534	.2642
Stddev	.0008	.0015	.03	.0001	.023	.0002	.0008	.0002	.0007
%RSD	.7775	1.283	.2894	.2995	.3599	.2289	.8809	.3915	.2494
#1	.1071	.1165	10.90	.0475	6.330	.1003	.0928	.0534	.2638
#2	.1087	.1136	10.92	.0478	6.360	.0999	.0932	.0536	.2639
#3	.1084	.1149	10.96	.0477	6.375	.1003	.0944	.0531	.2650

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	2085.9	6228.0	34296.	3425.4
Stddev	4.8	13.3	125.	16.5
%RSD	.22984	.21366	.36506	.48254
#1	2088.6	6234.4	34248.	3418.4
#2	2088.8	6237.0	34438.	3444.3
#3	2080.4	6212.8	34202.	3413.5

Zoom In
Zoom Out

Sample Name: MP28741-S1 Acquired: 4/2/2015 8:20:32 Type: Unk
Method: 60102007_041712(v212) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)
Avg	.0555	29.06	2.237	2.333	.0546	F545.2	.0491	.4968	.2072
Stddev	.0002	.08	.001	.014	.0003	4.2	.0000	.0002	.0008
%RSD	.3881	.2649	.0363	.5859	.4878	.7783	.0835	.0454	.4035
#1	.0556	28.98	2.236	2.322	.0543	542.9	.0492	.4969	.2067
#2	.0553	29.13	2.238	2.348	.0548	542.6	.0491	.4969	.2081
#3	.0557	29.08	2.237	2.328	.0547	550.1	.0491	.4965	.2066

Elem	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
IS Ref	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)
Avg	.2717	27.14	50.85	156.5	.5794	.5244	F926.2	.5066	.5008
Stddev	.0004	.11	.19	.7	.0026	.0003	8.7	.0002	.0005
%RSD	.1395	.3951	.3712	.4300	.4537	.0529	.9386	.0481	.0914
#1	.2713	27.03	50.63	155.8	.5823	.5242	934.9	.5064	.5005
#2	.2721	27.25	50.96	156.8	.5787	.5244	917.5	.5066	.5007
#3	.2717	27.13	50.94	157.0	.5772	.5247	926.2	.5069	.5014

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	.5386	2.396	10.68	.5296	F6.701	.5509	1.927	.5247	.5231
Stddev	.0005	.004	.01	.0012	.147	.0008	.003	.0012	.0002
%RSD	.0908	.1448	.1029	.2307	2.194	.1524	.1461	.2241	.0405
#1	.5390	2.393	10.68	.5288	6.537	.5519	1.931	.5260	.5233
#2	.5381	2.396	10.67	.5291	6.747	.5505	1.926	.5245	.5230
#3	.5388	2.399	10.69	.5310	6.820	.5503	1.925	.5236	.5229

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	2079.9	6302.0	34784.	3403.4
Stddev	1.8	7.5	187.	36.0
%RSD	.08688	.11842	.53693	1.0569
#1	2081.9	6309.9	34580.	3431.9
#2	2079.6	6301.2	34825.	3415.3
#3	2078.3	6295.0	34947.	3363.0

Zoom In
Zoom Out

Sample Name: MP28741-S2 Acquired: 4/2/2015 8:24:54 Type: Unk
Method: 60102007_041712(v212) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)
Avg	.0554	29.42	2.251	2.350	.0549	F549.3	.0496	.5020	.2088
Stddev	.0003	.16	.009	.005	.0004	6.0	.0001	.0010	.0006
%RSD	.5279	.5322	.4166	.2352	.7007	1.099	.2693	.2074	.2864
#1	.0557	29.46	2.261	2.349	.0547	552.6	.0497	.5032	.2084
#2	.0554	29.55	2.242	2.356	.0554	552.9	.0495	.5015	.2085
#3	.0551	29.25	2.249	2.345	.0547	542.3	.0497	.5013	.2095

Elem	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
IS Ref	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)
Avg	.2730	27.36	51.33	157.2	.5804	.5294	F933.3	.5100	.5041
Stddev	.0016	.12	.23	.8	.0013	.0014	2.6	.0017	.0001
%RSD	.5984	.4359	.4407	.5151	.2210	.2650	.2744	.3347	.0227
#1	.2717	27.39	51.37	157.2	.5796	.5310	931.0	.5120	.5042
#2	.2748	27.47	51.54	158.0	.5818	.5284	936.0	.5089	.5039
#3	.2726	27.23	51.09	156.4	.5797	.5288	932.8	.5092	.5041

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	.5397	2.405	10.71	.5341	F6.843	.5534	1.945	.5274	.5284
Stddev	.0005	.008	.03	.0019	.056	.0010	.004	.0015	.0014
%RSD	.0909	.3480	.2744	.3593	.8202	.1861	.1775	.2765	.2557
#1	.5402	2.415	10.74	.5362	6.778	.5525	1.948	.5259	.5300
#2	.5397	2.401	10.68	.5335	6.875	.5545	1.941	.5287	.5277
#3	.5392	2.400	10.71	.5325	6.876	.5532	1.946	.5277	.5275

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	2059.8	6237.4	34492.	3339.8
Stddev	5.4	15.8	62.	23.8
%RSD	.26246	.25366	.18050	.71208
#1	2053.7	6219.9	34555.	3360.7
#2	2064.0	6250.8	34431.	3314.0
#3	2061.8	6241.4	34491.	3344.8

Zoom In
Zoom Out

Sample Name: FA23172-2 Acquired: 4/2/2015 8:29:16 Type: Unk
Method: 60102007_041712(v212) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)
Avg	.0005	.0422	.0009	.0726	.0000	296.9	-.0002	.0001	.0008
Stddev	.0004	.0184	.0010	.0002	.000	.5	.0001	.0001	.0004
%RSD	72.88	43.53	108.5	.3164	1086.	.1602	25.56	72.12	50.04
#1	.0007	.0362	.0000	.0725	.0000	296.3	-.0002	.0002	.0004
#2	.0008	.0628	.0008	.0729	.0000	297.1	-.0002	.0001	.0009
#3	.0001	.0275	.0019	.0726	.0000	297.2	-.0003	.0000	.0012

Elem	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
IS Ref	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)
Avg	-.0005	1.490	11.41	140.3	.3047	-.0006	F873.9	.0002	-.0022
Stddev	.0003	.004	.04	.2	.0009	.0000	.9	.0001	.0006
%RSD	56.44	.2907	.3369	.1569	.3044	8.046	.1036	54.65	27.12
#1	-.0005	1.495	11.37	140.4	.3036	-.0006	874.4	.0001	-.0015
#2	-.0002	1.486	11.45	140.1	.3053	-.0006	872.8	.0003	-.0025
#3	-.0007	1.490	11.41	140.5	.3051	-.0007	874.4	.0001	-.0027

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	.0006	-.0011	6.012	-.0012	2.857	-.0004	-.0012	.0021	.0154
Stddev	.0003	.0012	.005	.0001	.005	.0001	.0004	.0001	.0001
%RSD	52.73	109.6	.0794	6.882	.1903	20.03	34.66	6.025	.4220
#1	.0003	-.0022	6.017	-.0012	2.851	-.0003	-.0011	.0020	.0154
#2	.0010	-.0013	6.009	-.0013	2.862	-.0004	-.0009	.0022	.0154
#3	.0007	.0002	6.009	-.0011	2.857	-.0004	-.0017	.0023	.0155

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	2139.0	6307.0	35003.	3403.7
Stddev	4.8	15.7	186.	19.7
%RSD	.22475	.24833	.53138	.57774
#1	2134.7	6294.7	35148.	3401.3
#2	2144.2	6324.6	35067.	3424.5
#3	2138.1	6301.7	34793.	3385.4

Zoom In
Zoom Out

Sample Name: FA23172-3 Acquired: 4/2/2015 8:33:29 Type: Unk
Method: 60102007_041712(v212) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)
Avg	-.0001	.0410	.0092	.0742	.0000	F547.2	-.0003	.0036	.0000
Stddev	.0003	.0028	.0002	.0003	.000	11.6	.0000	.0001	.000
%RSD	531.9	6.843	1.677	.3830	123.3	2.126	1.601	2.698	442.9
#1	-.0001	.0378	.0091	.0746	-.0001	556.0	-.0003	.0036	-.0001
#2	-.0003	.0431	.0094	.0741	-.0001	551.6	-.0003	.0037	.0000
#3	.0002	.0422	.0092	.0740	.0000	534.0	-.0003	.0035	.0001

Elem	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
IS Ref	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)
Avg	.0022	1.451	29.03	153.9	.1552	.0036	F552.8	.0039	.0001
Stddev	.0005	.007	.07	.5	.0003	.0001	2.6	.0002	.0008
%RSD	23.48	.4835	.2409	.3239	.1695	2.085	.4718	4.095	809.1
#1	.0016	1.445	28.95	154.4	.1549	.0035	555.6	.0038	-.0007
#2	.0023	1.459	29.06	153.9	.1553	.0035	552.4	.0038	.0002
#3	.0026	1.448	29.08	153.4	.1554	.0036	550.5	.0041	.0008

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	.0069	-.0022	7.424	-.0017	F6.540	-.0026	-.0023	.0041	.0621
Stddev	.0007	.0013	.002	.0002	.129	.0001	.0005	.0002	.0001
%RSD	10.30	57.67	.0221	12.11	1.973	4.530	20.38	4.033	.1809
#1	.0077	-.0028	7.426	-.0019	6.681	-.0025	-.0028	.0039	.0622
#2	.0069	-.0007	7.424	-.0016	6.513	-.0025	-.0019	.0043	.0622
#3	.0062	-.0030	7.423	-.0016	6.427	-.0027	-.0021	.0041	.0620

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	2222.0	6560.2	36568.	3487.9
Stddev	1.0	16.9	41.	31.2
%RSD	.04495	.25687	.11297	.89582
#1	2220.9	6547.8	36592.	3458.8
#2	2222.3	6553.5	36592.	3484.0
#3	2222.9	6579.4	36520.	3520.9

Zoom In Zoom Out

Sample Name: CCV Acquired: 4/2/2015 8:38:00 Type: QC
Method: 60102007_041712(v212) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2537	41.83	2.072	2.089	2.077	41.59	2.075	2.082	2.057	2.091
Stddev	.0004	.14	.003	.007	.006	.18	.002	.000	.006	.001
%RSD	.1554	.3459	.1466	.3244	.2977	.4377	.0700	.0130	.3027	.0641
#1	.2534	41.71	2.071	2.083	2.071	41.44	2.076	2.082	2.064	2.092
#2	.2541	41.99	2.075	2.089	2.083	41.79	2.074	2.082	2.051	2.091
#3	.2535	41.78	2.069	2.096	2.079	41.54	2.075	2.082	2.058	2.089
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value										
Range										

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	41.07	43.35	41.31	2.042	2.069	40.49	2.085	2.002	2.091	2.088
Stddev	.12	.20	.17	.004	.007	.24	.001	.005	.005	.003
%RSD	.2880	.4613	.4099	.2088	.3274	.5814	.0501	.2617	.2624	.1359
#1	40.94	43.16	41.16	2.046	2.061	40.22	2.084	2.001	2.093	2.088
#2	41.17	43.56	41.49	2.041	2.070	40.62	2.084	1.997	2.095	2.092
#3	41.10	43.31	41.27	2.038	2.075	40.62	2.086	2.007	2.085	2.086
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value										
Range										

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.160	2.097	2.104	2.059	2.050	2.069	2.063
Stddev	.002	.001	.007	.006	.003	.004	.002
%RSD	.0830	.0649	.3403	.2700	.1264	.1828	.1133
#1	2.161	2.096	2.097	2.061	2.048	2.072	2.065
#2	2.161	2.098	2.111	2.053	2.049	2.065	2.061
#3	2.157	2.096	2.105	2.063	2.053	2.069	2.064
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Pass
Value							
Range							

Zoom In Zoom Out

Sample Name: CCV Acquired: 4/2/2015 8:38:00 Type: QC
Method: 60102007_041712(v212) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2601.7	7190.7	40992.	3556.6
Stddev	8.6	7.2	151.	31.3
%RSD	.33138	.10038	.36876	.87901
#1	2599.0	7185.3	40852.	3558.9
#2	2611.3	7198.9	41152.	3524.2
#3	2594.7	7187.8	40971.	3586.6

Zoom In Zoom Out

Sample Name: CCB Acquired: 4/2/2015 8:42:04 Type: QC
Method: 60102007_041712(v212) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0001	.0011	.0001	.0005	.0004	.0104	.0001	.0002	.0002
Stddev	.0004	.0038	.0003	.0002	.0000	.0024	.0000	.0001	.0002
%RSD	276.9	358.6	318.1	28.65	11.82	23.64	26.49	55.12	115.0
#1	.0004	-.0028	.0003	.0006	.0003	.0120	.0001	.0002	.0004
#2	.0003	.0012	-.0002	.0004	.0004	.0115	.0000	.0002	.0001
#3	-.0003	.0048	.0000	.0007	.0003	.0076	.0001	.0001	.0000
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0003	.0201	.0604	.0006	.0002	F.0015	.3379	.0001	.0002
Stddev	.0002	.0036	.0212	.0094	.0000	.0005	.0087	.0002	.0004
%RSD	58.59	17.93	35.08	1611.	10.14	34.08	2.572	134.8	261.9
#1	.0005	.0233	.0788	.0046	.0002	.0021	.3466	.0004	.0003
#2	.0002	.0209	.0652	-.0101	.0002	.0014	.3379	.0000	.0005
#3	.0002	.0162	.0373	.0073	.0002	.0011	.3292	.0001	-.0003
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit						.0010			
Low Limit						-.0010			

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0003	.0001	.0061	.0000	.0005	.0009	.0002	.0002	-.0001
Stddev	.0006	.0008	.0007	.0001	.0000	.0002	.0004	.0002	.0000
%RSD	183.7	662.2	11.01	6846.	6.248	26.06	212.3	109.3	17.19
#1	.0004	.0008	.0062	.0002	.0005	.0011	.0005	.0002	-.0001
#2	-.0006	-.0008	.0067	-.0001	.0004	.0009	.0004	.0003	-.0001
#3	-.0008	.0003	.0054	-.0001	.0005	.0006	-.0003	.0000	-.0001
Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Zoom In Zoom Out

Sample Name: CCB Acquired: 4/2/2015 8:42:04 Type: QC
Method: 60102007_041712(v212) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3120.5	7600.2	42916.	3600.3
Stddev	5.1	14.9	88.	6.8
%RSD	.16193	.19624	.20463	.18929
#1	3120.2	7600.8	43016.	3607.5
#2	3125.6	7614.8	42853.	3599.3
#3	3115.5	7585.0	42878.	3594.0

Zoom In Zoom Out

Sample Name: FA23172-4 Acquired: 4/2/2015 8:46:15 Type: Unk
Method: 60102007_041712(v212) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)
Avg	.0005	.0331	.0008	.1588	.0001	446.8	-.0003	.0001	.0021
Stddev	.0004	.0065	.0009	.0002	.0001	2.2	.0001	.0001	.0001
%RSD	76.73	19.80	107.9	.1226	71.71	.4940	18.95	47.02	6.492
#1	.0009	.0319	.0017	.1589	.0001	444.3	-.0003	.0001	.0020
#2	.0001	.0401	.0008	.1589	.0002	448.3	-.0003	.0001	.0023
#3	.0006	.0272	-.0001	.1586	.0001	447.8	-.0004	.0002	.0021

Elem	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
IS Ref	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)
Avg	-.0010	3.815	46.31	295.0	.0897	.0009	F1089.	.0009	-.0047
Stddev	.0003	.014	.10	.4	.0003	.0001	23.	.0002	.0005
%RSD	30.81	.3632	.2138	.1371	.3262	15.87	2.151	19.85	11.48
#1	-.0013	3.822	46.35	295.2	.0898	.0008	1116.	.0007	-.0041
#2	-.0008	3.824	46.19	295.2	.0894	.0011	1074.	.0011	-.0051
#3	-.0008	3.799	46.37	294.5	.0900	.0008	1076.	.0010	-.0049

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	.0005	-.0015	6.188	-.0013	F4.354	-.0009	-.0022	.0075	.0094
Stddev	.0008	.0013	.004	.0004	.007	.0000	.0007	.0001	.0000
%RSD	169.3	87.93	.0647	30.60	.1649	3.724	33.51	1.617	.2819
#1	-.0004	-.0001	6.183	-.0017	4.362	-.0009	-.0017	.0075	.0094
#2	.0011	-.0027	6.188	-.0014	4.350	-.0008	-.0019	.0074	.0094
#3	.0008	-.0018	6.191	-.0009	4.349	-.0009	-.0031	.0076	.0093

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	2034.7	6151.5	34027.	3410.2
Stddev	1.5	6.7	106.	14.7
%RSD	.07470	.10859	.31296	.43033
#1	2035.0	6159.2	34056.	3424.8
#2	2033.0	6148.1	34115.	3410.3
#3	2036.0	6147.2	33908.	3395.4

Zoom In Zoom Out

Sample Name: FA23172-5 Acquired: 4/2/2015 8:50:39 Type: Unk
Method: 60102007_041712(v212) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)
Avg	-.0004	.2781	-.0006	.3667	.0000	F861.2	-.0008	.0004
Stddev	.0003	.0045	.0004	.0003	.000	4.6	.0000	.0001
%RSD	67.56	1.607	78.94	.0745	737.3	.5369	3.183	30.21
#1	-.0001	.2824	-.0006	.3669	.0000	862.2	-.0007	.0005
#2	-.0006	.2783	-.0010	.3663	.0001	865.3	-.0008	.0003
#3	-.0004	.2735	-.0001	.3668	-.0001	856.2	-.0008	.0003

Elem	Cr2677	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)
Avg	.0045	-.0060	1.894	F124.2	F1115.	.6062	-.0010	F1238.
Stddev	.0006	.0001	.005	.1	1.	.0013	.0002	9.
%RSD	12.37	1.175	.2457	.1097	.1097	.2160	19.68	.7357
#1	.0044	-.0059	1.899	124.1	1115.	.6048	-.0013	1249.
#2	.0051	-.0061	1.890	124.0	1113.	.6072	-.0009	1233.
#3	.0040	-.0060	1.893	124.3	1115.	.6067	-.0009	1232.

Elem	Ni2316	Pb2203	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)
Avg	.0012	F-.0067	.0015	-.0037	5.210	-.0017	F9.398	-.0061
Stddev	.0004	.0006	.0009	.0009	.018	.0003	.056	.0006
%RSD	32.98	8.706	60.93	24.72	.3453	20.85	.5925	9.907
#1	.0008	-.0067	.0012	-.0036	5.230	-.0013	9.410	-.0065
#2	.0015	-.0062	.0026	-.0029	5.200	-.0018	9.448	-.0064
#3	.0012	-.0074	.0008	-.0047	5.198	-.0020	9.338	-.0054

Elem	Tl1908	V_2924	Zn2062
IS Ref	(In2306)	(Y_3600)	(Y_2243)
Avg	-.0037	.0152	.0093
Stddev	.0004	.0004	.0000
%RSD	12.18	2.875	.1843
#1	-.0034	.0152	.0093
#2	-.0034	.0157	.0093
#3	-.0042	.0148	.0093

Zoom In Zoom Out

Sample Name: FA23172-5 Acquired: 4/2/2015 8:50:39 Type: Unk
Method: 60102007_041712(v212) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	1560.1	4745.0	26808.	3009.2
Stddev	2.4	6.1	59.	3.7
%RSD	.15276	.12902	.22063	.12462
#1	1559.2	4740.5	26874.	3013.1
#2	1558.2	4742.5	26786.	3005.6
#3	1562.8	4751.9	26762.	3008.8

Zoom In Zoom Out

Sample Name: FA23172-6 Acquired: 4/2/2015 8:55:08 Type: Unk
Method: 60102007_041712(v212) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)
Avg	-.0003	.0636	-.0013	.1710	.0000	487.2	-.0005	-.0001
Stddev	.0002	.0016	.0001	.0010	.0001	9.5	.0000	.0000
%RSD	72.61	2.572	4.035	.5948	373.3	1.952	6.302	12.49
#1	-.0001	.0650	-.0013	.1715	.0002	477.3	-.0004	-.0001
#2	-.0004	.0640	-.0012	.1716	.0000	487.9	-.0005	-.0001
#3	-.0003	.0618	-.0013	.1698	-.0001	496.3	-.0004	-.0001

Elem	Cr2677	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)
Avg	.0002	-.0014	2.604	38.56	209.9	.0834	-.0005	F831.5
Stddev	.0001	.0003	.007	.11	.8	.0003	.0001	1.8
%RSD	67.64	23.81	.2841	.2953	.3644	.3641	10.51	.2195
#1	.0001	-.0017	2.610	38.67	209.5	.0837	-.0006	833.1
#2	.0004	-.0014	2.607	38.56	210.8	.0835	-.0005	829.5
#3	.0002	-.0011	2.596	38.44	209.4	.0831	-.0005	831.8

Elem	Ni2316	Pb2203	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)
Avg	-.0003	F-.0059	.0005	-.0031	7.668	-.0017	F6.160	-.0019
Stddev	.0002	.0011	.0003	.0016	.023	.0004	.074	.0002
%RSD	69.46	19.47	58.24	52.55	.3044	22.06	1.203	11.97
#1	-.0001	-.0062	.0007	-.0023	7.690	-.0017	6.100	-.0020
#2	-.0005	-.0069	.0008	-.0050	7.644	-.0013	6.138	-.0020
#3	-.0003	-.0046	.0002	-.0020	7.670	-.0021	6.243	-.0016

Elem	Tl1908	V_2924	Zn2062
IS Ref	(In2306)	(Y_3600)	(Y_2243)
Avg	-.0024	.0007	.0060
Stddev	.0005	.0001	.0001
%RSD	23.06	20.91	.9124
#1	-.0029	.0008	.0060
#2	-.0024	.0006	.0059
#3	-.0018	.0006	.0059

Zoom In Zoom Out

Sample Name: FA23172-6 Acquired: 4/2/2015 8:55:08 Type: Unk
Method: 60102007_041712(v212) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	2019.5	6017.7	33476.	3297.1
Stddev	1.1	7.3	99.	10.4
%RSD	.05531	.12164	.29693	.31617
#1	2018.2	6010.6	33422.	3306.6
#2	2020.2	6025.2	33414.	3286.0
#3	2020.2	6017.2	33590.	3298.8

Zoom In Zoom Out

Sample Name: FA23172-7 Acquired: 4/2/2015 8:59:40 Type: Unk
Method: 60102007_041712(v212) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)
Avg	.0007	.0495	.0000	.0372	.0000	155.6	-.0001	.0007	.0040
Stddev	.0003	.0125	.001	.0003	.0001	.4	.0000	.0001	.0001
%RSD	45.96	25.28	47950.	.9236	183.8	.2670	7.269	8.691	1.667
#1	.0004	.0627	.0007	.0374	.0000	155.9	-.0001	.0006	.0039
#2	.0010	.0379	-.0003	.0368	.0001	155.7	-.0002	.0007	.0040
#3	.0007	.0479	-.0004	.0374	.0001	155.1	-.0001	.0008	.0040

Elem	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
IS Ref	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)
Avg	-.0005	.0241	55.16	153.6	.0427	-.0014	F823.3	.0009	-.0050
Stddev	.0001	.0021	.15	.6	.0003	.0001	5.3	.0002	.0005
%RSD	13.62	8.887	.2739	.4207	.6388	5.729	.6472	24.16	9.182
#1	-.0005	.0255	55.33	154.3	.0424	-.0015	822.0	.0010	-.0055
#2	-.0006	.0217	55.11	153.6	.0430	-.0013	829.2	.0011	-.0048
#3	-.0005	.0252	55.04	153.0	.0426	-.0014	818.8	.0007	-.0047

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	-.0003	-.0006	9.499	-.0013	1.363	.0046	-.0022	.0251	.0076
Stddev	.0010	.0002	.005	.0001	.004	.0000	.0004	.0006	.0001
%RSD	299.6	43.27	.0491	10.53	.2789	.4322	16.00	2.569	1.401
#1	-.0002	-.0006	9.501	-.0012	1.367	.0046	-.0026	.0244	.0077
#2	.0006	-.0003	9.503	-.0013	1.363	.0046	-.0021	.0253	.0075
#3	-.0014	-.0008	9.494	-.0015	1.359	.0046	-.0020	.0256	.0076

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	2135.7	6374.0	35251.	3410.4
Stddev	4.8	22.3	223.	9.6
%RSD	.22643	.35059	.63153	.28037
#1	2140.9	6398.6	35508.	3403.4
#2	2134.9	6368.5	35133.	3406.6
#3	2131.3	6355.0	35112.	3421.3

Zoom In Zoom Out

Sample Name: FA23172-8 Acquired: 4/2/2015 9:03:54 Type: Unk
Method: 60102007_041712(v212) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)
Avg	-.0005	.0162	-.0011	.1235	.0000	421.0	-.0004	-.0002	-.0004
Stddev	.0007	.0084	.0003	.0004	.0001	3.2	.0000	.0001	.0003
%RSD	134.3	51.84	28.23	.3237	648.7	.7597	11.89	30.18	69.42
#1	-.0004	.0167	-.0012	.1239	-.0001	417.3	-.0004	-.0001	-.0003
#2	.0001	.0242	-.0013	.1233	.0000	423.3	-.0003	-.0002	-.0007
#3	-.0012	.0075	-.0007	.1232	.0001	422.3	-.0003	-.0002	-.0002

Elem	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
IS Ref	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)
Avg	-.0013	.0942	26.32	128.2	.0211	-.0017	F791.1	-.0005	-.0046
Stddev	.0002	.0034	.08	.2	.0001	.0001	10.3	.0001	.0005
%RSD	17.63	3.575	.2856	.1520	.6432	5.921	1.303	9.565	11.32
#1	-.0012	.0910	26.24	127.9	.0212	-.0017	797.7	-.0006	-.0040
#2	-.0011	.0977	26.34	128.2	.0210	-.0017	796.4	-.0005	-.0050
#3	-.0016	.0939	26.39	128.3	.0211	-.0019	779.3	-.0006	-.0047

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	-.0008	-.0029	9.568	-.0015	F5.103	-.0024	-.0023	.0001	.0051
Stddev	.0010	.0021	.036	.0002	.012	.0001	.0009	.0002	.0000
%RSD	133.1	71.45	.3813	14.70	.2327	3.185	37.07	149.4	.6342
#1	.0003	-.0053	9.526	-.0014	5.093	-.0024	-.0015	.0002	.0052
#2	-.0009	-.0017	9.584	-.0017	5.101	-.0025	-.0032	-.0001	.0051
#3	-.0017	-.0017	9.594	-.0013	5.116	-.0023	-.0023	.0002	.0051

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	2130.5	6331.2	35349.	3385.9
Stddev	3.5	33.4	115.	13.8
%RSD	.16472	.52735	.32490	.40796
#1	2134.4	6369.3	35408.	3400.9
#2	2129.5	6316.7	35217.	3373.7
#3	2127.6	6307.4	35423.	3383.1

Zoom In Zoom Out

Sample Name: FA23172-9 Acquired: 4/2/2015 9:08:18 Type: Unk
Method: 60102007_041712(v212) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)
Avg	.0006	.1081	.0126	.0833	.0000	350.0	-.0003	.0002
Stddev	.0003	.0139	.0009	.0003	.000	2.1	.0000	.0001
%RSD	51.72	12.85	7.528	.3246	68.73	.5944	11.55	84.11
#1	.0003	.1232	.0134	.0830	.0000	348.0	-.0003	.0001
#2	.0008	.1054	.0116	.0836	-.0001	349.7	-.0003	.0003
#3	.0006	.0958	.0128	.0832	.0000	352.2	-.0003	.0000

Elem	Cr2677	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)
Avg	.0014	-.0005	.6706	37.06	50.50	.0125	.0066	F619.0
Stddev	.0002	.0001	.0085	.14	.21	.0000	.0001	16.0
%RSD	13.72	16.90	1.266	.3783	.4162	.3260	.8519	2.587
#1	.0016	-.0005	.6682	37.11	50.74	.0125	.0066	600.6
#2	.0014	-.0006	.6635	37.17	50.39	.0125	.0066	629.9
#3	.0012	-.0004	.6800	36.90	50.36	.0124	.0067	626.5

Elem	Ni2316	Pb2203	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)
Avg	.0018	F-.0052	.0004	.0037	8.501	-.0012	1.252	.0010
Stddev	.0001	.0003	.0008	.0007	.003	.0003	.005	.0001
%RSD	5.962	5.909	225.9	17.71	.0330	25.91	.3779	5.046
#1	.0018	-.0051	.0011	.0034	8.503	-.0009	1.248	.0011
#2	.0020	-.0056	-.0005	.0033	8.502	-.0014	1.257	.0010
#3	.0018	-.0050	.0005	.0045	8.497	-.0014	1.251	.0010

Elem	Tl1908	V_2924	Zn2062
IS Ref	(In2306)	(Y_3600)	(Y_2243)
Avg	-.0020	.0210	.0096
Stddev	.0012	.0002	.0000
%RSD	57.89	1.008	.0851
#1	-.0012	.0211	.0096
#2	-.0034	.0212	.0096
#3	-.0015	.0208	.0096

Zoom In Zoom Out

Sample Name: FA23172-9 Acquired: 4/2/2015 9:08:18 Type: Unk
Method: 60102007_041712(v212) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	2242.2	6620.1	36898.	3450.7
Stddev	5.3	7.9	56.	39.2
%RSD	.23459	.11910	.15284	1.1367
#1	2247.5	6623.5	36963.	3405.9
#2	2241.9	6625.7	36870.	3467.5
#3	2237.0	6611.1	36861.	3478.8

Zoom In Zoom Out

Sample Name: FA23172-10 Acquired: 4/2/2015 9:12:40 Type: Unk
Method: 60102007_041712(v212) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)
Avg	.0005	.1146	.0228	.0490	.0001	157.7	-.0001	.0009	.0022
Stddev	.0004	.0037	.0008	.0000	.0001	.6	.0000	.0001	.0004
%RSD	83.30	3.212	3.551	.0305	91.66	.3758	74.90	9.897	19.08
#1	.0002	.1183	.0225	.0490	.0001	157.0	.0000	.0008	.0024
#2	.0004	.1147	.0222	.0490	.0000	158.1	-.0001	.0010	.0025
#3	.0010	.1109	.0237	.0490	.0000	158.0	.0000	.0010	.0018

Elem	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
IS Ref	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)
Avg	.0001	9.455	13.44	21.93	.4003	.0053	F88.19	.0000	-.0030
Stddev	.0002	.029	.10	.12	.0015	.0001	.64	.0001	.0003
%RSD	352.0	.3086	.7590	.5483	.3679	1.730	.7255	1281.	11.55
#1	.0003	9.429	13.34	21.81	.4009	.0054	87.46	.0001	-.0029
#2	.0001	9.450	13.43	21.94	.4014	.0052	88.46	-.0001	-.0027
#3	-.0002	9.486	13.55	22.05	.3986	.0052	88.65	.0000	-.0034

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	-.0011	.0008	14.96	-.0011	.8809	.0024	-.0009	.0038	.0067
Stddev	.0006	.0013	.00	.0002	.0027	.0002	.0001	.0001	.0001
%RSD	56.82	156.6	.0032	17.17	.3043	9.278	10.71	2.999	.8243
#1	-.0015	.0017	14.96	-.0009	.8779	.0023	-.0008	.0038	.0067
#2	-.0004	-.0007	14.96	-.0013	.8829	.0026	-.0010	.0039	.0068
#3	-.0013	.0014	14.96	-.0011	.8820	.0022	-.0009	.0037	.0067

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	2622.2	7124.5	39814.	3452.5
Stddev	6.3	4.9	63.	26.9
%RSD	.24185	.06846	.15714	.77945
#1	2623.8	7125.3	39877.	3477.7
#2	2627.6	7119.2	39814.	3455.8
#3	2615.2	7128.8	39752.	3424.1

Zoom In Zoom Out

Sample Name: FA23172-11 Acquired: 4/2/2015 9:16:45 Type: Unk
Method: 60102007_041712(v212) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)
Avg	-.0001	.0216	.0164	.1072	.0000	239.2	-.0001	.0018	.0001
Stddev	.0002	.0053	.0011	.0001	.000	1.3	.0000	.0001	.0001
%RSD	267.2	24.37	6.756	.0733	108.3	.5589	15.63	3.593	159.4
#1	.0000	.0230	.0157	.1073	.0000	240.0	-.0002	.0018	.0000
#2	.0001	.0260	.0158	.1072	.0000	237.6	-.0001	.0018	.0002
#3	-.0003	.0158	.0177	.1073	.0000	240.0	-.0001	.0017	.0000

Elem	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
IS Ref	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)
Avg	-.0006	10.13	40.47	220.2	.0754	.0030	F1013.	.0030	-.0042
Stddev	.0002	.03	.24	1.9	.0002	.0001	19.	.0003	.0010
%RSD	38.93	.3408	.5869	.8687	.2049	4.604	1.924	9.083	22.85
#1	-.0004	10.16	40.50	221.1	.0754	.0029	1035.	.0029	-.0053
#2	-.0009	10.09	40.22	218.0	.0752	.0031	996.8	.0034	-.0039
#3	-.0005	10.15	40.70	221.5	.0755	.0029	1008.	.0029	-.0035

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	-.0010	-.0001	4.568	-.0016	2.220	-.0006	-.0022	.0003	.0064
Stddev	.0010	.0016	.005	.0002	.005	.0002	.0016	.0001	.0001
%RSD	99.26	1622.	.1015	11.80	.2362	24.87	72.20	49.19	1.260
#1	-.0013	-.0014	4.566	-.0016	2.221	-.0006	-.0019	.0005	.0065
#2	-.0018	.0016	4.565	-.0018	2.215	-.0005	-.0038	.0003	.0065
#3	.0001	-.0005	4.574	-.0014	2.225	-.0008	-.0007	.0002	.0063

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	2095.1	6149.6	33826.	3322.8
Stddev	5.1	7.1	71.	37.7
%RSD	.24405	.11567	.21120	1.1358
#1	2089.5	6141.9	33782.	3295.8
#2	2096.2	6151.0	33908.	3365.9
#3	2099.5	6156.0	33786.	3306.7

Zoom In Zoom Out

Sample Name: FA23166-8 Acquired: 4/2/2015 9:20:58 Type: Unk
Method: 60102007_041712(v212) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	.0006	.5639	-.0003	.0002	.0001	33.77	.0006	-.0007	.0003	.0011
Stddev	.0001	.0106	.0005	.0001	.0001	.14	.0000	.0000	.0003	.0004
%RSD	18.70	1.883	139.1	45.48	118.7	.4096	5.940	3.371	101.9	32.44
#1	.0007	.5563	-.0006	.0003	.0000	33.61	.0006	-.0007	.0001	.0015
#2	.0005	.5760	-.0006	.0001	.0002	33.87	.0005	-.0008	.0007	.0010
#3	.0007	.5593	.0002	.0003	.0002	33.83	.0006	-.0007	.0001	.0009

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	59.94	15.14	18.69	.1989	-.0002	24.48	-.0002	-.0011	-.0020	.0014
Stddev	.27	.05	.01	.0009	.0002	.10	.0002	.0006	.0010	.0018
%RSD	.4508	.3039	.0395	.4316	86.95	.3926	90.54	54.51	50.79	123.9
#1	59.65	15.08	18.68	.1982	-.0001	24.37	-.0004	-.0018	-.0029	-.0003
#2	60.19	15.17	18.70	.1999	-.0003	24.54	-.0001	-.0008	-.0023	.0013
#3	59.99	15.15	18.68	.1986	-.0001	24.53	-.0001	-.0007	-.0009	.0033

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	22.19	-.0005	.0011	.0002	-.0008	.0004	.0091
Stddev	.03	.0003	.0001	.0001	.0004	.0003	.0001
%RSD	.1351	66.90	5.787	62.36	50.35	66.77	.7139
#1	22.19	-.0009	.0010	.0000	-.0004	.0003	.0091
#2	22.22	-.0004	.0011	.0002	-.0010	.0008	.0092
#3	22.16	-.0002	.0011	.0002	-.0011	.0003	.0091

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	2839.5	7427.0	41486.	3476.3
Stddev	2.2	15.3	228.	23.1
%RSD	.07632	.20572	.55037	.66575
#1	2837.4	7422.4	41669.	3501.8
#2	2839.3	7414.6	41230.	3456.5
#3	2841.8	7444.1	41560.	3470.7

Zoom In Zoom Out

Sample Name: FA23166-9 Acquired: 4/2/2015 9:25:04 Type: Unk
Method: 60102007_041712(v212) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	.0002	.0191	.0007	.0008	-.0001	24.52	.0000	.0003	.0004	.0004
Stddev	.0002	.0023	.0004	.0001	.0001	.04	.000	.0000	.0002	.0001
%RSD	92.41	12.16	57.84	7.701	146.8	.1557	896.8	8.221	46.45	14.37
#1	.0001	.0190	.0006	.0008	-.0001	24.53	.0000	.0003	.0005	.0003
#2	.0001	.0214	.0004	.0008	.0000	24.55	.0000	.0003	.0005	.0004
#3	.0005	.0168	.0012	.0009	-.0001	24.48	.0000	.0003	.0002	.0004

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	6.456	14.68	8.515	.0586	-.0011	40.19	.0008	-.0015	-.0020	.0003
Stddev	.026	.01	.032	.0002	.0001	.07	.0002	.0000	.0004	.0011
%RSD	.4012	.0889	.3703	.2946	7.148	.1814	29.17	1.225	20.63	379.7
#1	6.480	14.70	8.501	.0584	-.0012	40.15	.0007	-.0015	-.0016	.0010
#2	6.461	14.68	8.551	.0587	-.0010	40.28	.0011	-.0016	-.0024	.0010
#3	6.429	14.67	8.492	.0588	-.0012	40.15	.0007	-.0016	-.0019	-.0010

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	14.52	-.0007	.0096	.0000	-.0003	.0002	.0070
Stddev	.01	.0004	.0001	.0002	.0004	.0001	.0000
%RSD	.0707	61.88	1.418	1468.	129.5	62.20	.4666
#1	14.53	-.0008	.0096	.0000	-.0003	.0002	.0069
#2	14.53	-.0010	.0098	.0002	.0001	.0003	.0070
#3	14.51	-.0002	.0095	-.0001	-.0008	.0001	.0070

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	2868.4	7512.4	42320.	3534.8
Stddev	2.7	8.3	214.	24.2
%RSD	.09334	.11077	.50508	.68501
#1	2868.8	7516.1	42390.	3553.9
#2	2865.6	7502.8	42080.	3507.5
#3	2870.9	7518.1	42489.	3542.9

Zoom In Zoom Out

Sample Name: CCV Acquired: 4/2/2015 9:29:12 Type: QC
Method: 60102007_041712(v212) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2542	41.83	2.087	2.123	2.053	40.93	2.065	2.075	2.042
Stddev	.0005	.05	.006	.002	.004	.01	.005	.005	.005
%RSD	.1966	.1288	.3055	.0996	.1683	.0337	.2631	.2561	.2307
#1	.2544	41.80	2.080	2.122	2.054	40.94	2.059	2.069	2.043
#2	.2546	41.89	2.092	2.121	2.056	40.93	2.067	2.078	2.037
#3	.2536	41.79	2.088	2.125	2.049	40.92	2.070	2.078	2.046
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value									
Range									

Elem	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.104	39.79	F44.62	40.32	2.053	2.064	42.01	2.088	1.977
Stddev	.003	.04	.07	.18	.018	.012	.07	.006	.005
%RSD	.1343	.0901	.1585	.4502	.8697	.5868	.1665	.2686	.2346
#1	2.103	39.76	44.56	40.26	2.066	2.051	42.03	2.082	1.972
#2	2.107	39.83	44.70	40.53	2.059	2.069	42.07	2.093	1.976
#3	2.102	39.80	44.61	40.18	2.032	2.074	41.94	2.088	1.982
Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value			40.00						
Range			10.00%						

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.100	2.099	2.173	2.122	2.115	2.054	2.031	2.088	2.053
Stddev	.004	.007	.007	.009	.002	.002	.007	.004	.005
%RSD	.2026	.3258	.3094	.4001	.0958	.1040	.3656	.1902	.2698
#1	2.095	2.093	2.166	2.113	2.113	2.056	2.025	2.084	2.047
#2	2.102	2.106	2.179	2.130	2.117	2.052	2.030	2.090	2.055
#3	2.102	2.098	2.174	2.124	2.114	2.053	2.039	2.091	2.057
Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value									
Range									

Zoom In Zoom Out

Sample Name: CCV Acquired: 4/2/2015 9:29:12 Type: QC
Method: 60102007_041712(v212) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2636.8	7240.7	41194.	3497.4
Stddev	8.8	18.8	118.	12.8
%RSD	.33189	.25997	.28677	.36737
#1	2644.7	7261.5	41104.	3510.2
#2	2638.2	7236.0	41328.	3497.5
#3	2627.4	7224.7	41150.	3484.5

Zoom In Zoom Out

Sample Name: CCB Acquired: 4/2/2015 9:33:10 Type: QC
Method: 60102007_041712(v212) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0002	.0030	-.0002	.0006	.0003	.0035	.0001	.0000	.0000
Stddev	.0004	.0054	.0005	.0003	.0001	.0029	.0000	.0000	.000
%RSD	166.9	179.8	262.6	58.93	36.86	83.09	32.56	141.1	168.3
#1	-.0001	-.0009	.0001	.0006	.0004	.0001	.0001	.0000	.0000
#2	.0006	.0091	-.0008	.0009	.0003	.0051	.0001	.0000	.0000
#3	.0001	.0008	.0001	.0002	.0002	.0053	.0001	.0000	-.0001
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0004	.0200	.0184	.0106	.0002	F.0015	.2226	.0000	-.0001
Stddev	.0001	.0067	.0077	.0181	.0000	.0006	.0056	.0001	.0004
%RSD	31.88	33.42	41.73	171.0	5.743	41.51	2.508	294.9	310.0
#1	.0003	.0264	.0114	.0302	.0002	.0021	.2221	.0002	.0003
#2	.0005	.0206	.0267	.0069	.0002	.0014	.2284	-.0001	-.0004
#3	.0003	.0130	.0172	-.0054	.0002	.0009	.2172	.0000	-.0002
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit						.0010			
Low Limit						-.0010			

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0006	-.0004	.0072	-.0001	.0003	.0008	.0002	.0003	-.0001
Stddev	.0005	.0017	.0013	.0002	.0001	.0001	.0006	.0002	.0001
%RSD	84.35	397.3	17.93	317.3	27.97	14.97	252.9	60.12	118.5
#1	.0003	.0006	.0064	-.0003	.0004	.0009	-.0003	.0001	.0000
#2	.0012	-.0024	.0065	.0000	.0003	.0007	.0001	.0005	-.0001
#3	.0004	.0005	.0087	.0001	.0003	.0009	.0009	.0003	-.0002
Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Zoom In
Zoom Out

Sample Name: CCB Acquired: 4/2/2015 9:33:10 Type: QC
Method: 60102007_041712(v212) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3151.5	7603.4	43325.	3524.4
Stddev	4.0	5.6	258.	7.7
%RSD	.12588	.07407	.59465	.21865
#1	3155.8	7603.5	43614.	3521.3
#2	3148.0	7597.7	43241.	3533.2
#3	3150.7	7609.0	43120.	3518.8

Zoom In
Zoom Out

Sample Name: FA23166-10 Acquired: 4/2/2015 9:37:21 Type: Unk
Method: 60102007_041712(v212) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	.0005	.0126	.0018	.0003	.0000	28.14	.0000	.0000	.0005	.0027
Stddev	.0004	.0124	.0005	.0001	.0000	.09	.0000	.0001	.0003	.0002
%RSD	78.16	97.90	27.59	31.09	272.0	.3310	250.0	317.1	59.33	9.086
#1	.0008	.0154	.0014	.0003	.0000	28.24	.0001	-.0001	.0002	.0029
#2	.0001	.0234	.0017	.0002	.0001	28.13	.0000	.0001	.0008	.0027
#3	.0006	-.0009	.0024	.0003	.0000	28.06	.0000	.0001	.0006	.0024

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	1.395	1.342	16.70	.0190	.0001	29.35	.0001	-.0022	-.0012	.0004
Stddev	.008	.021	.02	.0000	.0001	.09	.0001	.0008	.0006	.0009
%RSD	.5906	1.528	.1366	.1874	37.33	.3197	181.3	39.14	48.91	228.6
#1	1.404	1.320	16.71	.0190	.0002	29.45	.0001	-.0027	-.0005	-.0005
#2	1.388	1.360	16.72	.0189	.0001	29.33	-.0001	-.0026	-.0014	.0014
#3	1.393	1.347	16.67	.0190	.0002	29.26	.0001	-.0012	-.0016	.0003

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	1.119	-.0004	.0139	.0004	.0003	.0003	.0119
Stddev	.002	.0001	.0000	.0001	.0001	.0002	.0000
%RSD	.2102	21.30	.2992	15.43	40.12	71.99	.2451
#1	1.117	-.0004	.0140	.0004	.0003	.0006	.0119
#2	1.118	-.0005	.0139	.0004	.0002	.0002	.0119
#3	1.122	-.0003	.0139	.0005	.0005	.0002	.0119

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	2885.2	7445.2	41911.	3493.8
Stddev	2.6	8.6	136.	19.2
%RSD	.08944	.11573	.32372	.54957
#1	2888.2	7455.0	41888.	3482.2
#2	2883.3	7441.8	41788.	3483.3
#3	2884.3	7438.9	42057.	3516.0

Zoom In
Zoom Out

Sample Name: FA23166-11 Acquired: 4/2/2015 9:41:30 Type: Unk
Method: 60102007_041712(v212) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	.0003	.0140	.0072	.0017	-.0001	40.52	.0001	-.0002	.0017	.0000
Stddev	.0001	.0114	.0003	.0004	.0001	.14	.0000	.0001	.0003	.0001
%RSD	24.31	81.44	4.178	25.97	179.5	.3338	46.14	51.31	15.23	223.7
#1	.0004	.0009	.0070	.0012	-.0001	40.42	.0000	-.0002	.0016	.0000
#2	.0002	.0200	.0071	.0018	.0001	40.67	.0001	-.0002	.0015	.0000
#3	.0004	.0212	.0076	.0020	-.0001	40.46	.0001	-.0001	.0020	.0002

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	5.472	.5615	28.12	.0610	-.0005	12.86	.0053	-.0020	-.0014	.0002
Stddev	.017	.0110	.21	.0001	.0001	.04	.0000	.0001	.0007	.0005
%RSD	.3011	1.955	.7505	.1257	25.25	.2997	.3655	5.851	50.37	224.8
#1	5.453	.5626	27.92	.0609	-.0003	12.83	.0053	-.0021	-.0022	-.0003
#2	5.482	.5500	28.34	.0610	-.0005	12.91	.0053	-.0019	-.0013	.0005
#3	5.481	.5719	28.10	.0611	-.0005	12.85	.0053	-.0021	-.0007	.0005

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	15.68	-.0005	.0240	.0008	-.0006	.0006	.0073
Stddev	.01	.0001	.0001	.0002	.0002	.0001	.0000
%RSD	.0499	16.76	.2554	21.73	32.51	18.33	.4177
#1	15.69	-.0006	.0240	.0009	-.0008	.0008	.0073
#2	15.67	-.0006	.0241	.0007	-.0007	.0006	.0073
#3	15.68	-.0004	.0240	.0006	-.0004	.0005	.0072

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	2906.9	7456.2	41792.	3475.5
Stddev	4.7	9.7	90.	28.9
%RSD	.16164	.12994	.21564	.83128
#1	2906.8	7454.8	41707.	3490.1
#2	2902.3	7447.3	41783.	3442.3
#3	2911.7	7466.5	41886.	3494.3

Zoom In
Zoom Out

Sample Name: FA23166-12 Acquired: 4/2/2015 9:45:36 Type: Unk
Method: 60102007_041712(v212) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	.0005	.2808	.0000	.0029	-.0001	60.73	.0000	-.0002	.0007	.0005
Stddev	.0003	.0097	.000	.0002	.0001	.23	.000	.0001	.0002	.0001
%RSD	56.58	3.463	1296.	5.661	77.04	.3856	214.2	32.43	28.83	32.58
#1	.0002	.2920	.0000	.0027	.0000	60.80	.0000	-.0001	.0006	.0003
#2	.0006	.2762	.0002	.0028	-.0002	60.92	-.0001	-.0003	.0009	.0006
#3	.0007	.2742	-.0003	.0030	.0000	60.47	-.0001	-.0003	.0006	.0005

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	.3443	1.285	3.961	.0028	.0010	7.615	.0000	-.0032	-.0012	.0021
Stddev	.0052	.006	.013	.0001	.0001	.035	.0001	.0006	.0007	.0004
%RSD	1.515	.4372	.3331	2.463	6.699	.4644	577.8	18.52	62.29	17.34
#1	.3503	1.278	3.976	.0028	.0010	7.613	.0001	-.0033	-.0006	.0017
#2	.3416	1.287	3.958	.0027	.0010	7.652	-.0001	-.0025	-.0010	.0021
#3	.3409	1.289	3.950	.0027	.0009	7.581	.0001	-.0036	-.0020	.0024

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	11.36	-.0007	.1406	.0005	-.0001	.0468	.0103
Stddev	.01	.0001	.0005	.0001	.0005	.0004	.0000
%RSD	.0499	22.25	.3331	27.77	678.2	.8090	.1925
#1	11.36	-.0008	.1407	.0004	.0001	.0468	.0104
#2	11.35	-.0006	.1411	.0007	.0003	.0464	.0103
#3	11.35	-.0006	.1401	.0004	-.0006	.0471	.0103

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	2912.1	7382.6	41774.	3447.2
Stddev	5.0	10.4	115.	42.0
%RSD	.17179	.14095	.27493	1.2178
#1	2911.7	7374.6	41906.	3420.9
#2	2917.3	7394.3	41707.	3425.0
#3	2907.4	7378.7	41708.	3495.6

Zoom In
Zoom Out

Sample Name: FA23166-13 Acquired: 4/2/2015 9:49:43 Type: Unk
Method: 60102007_041712(v212) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	.0000	-.0049	-.0012	.0002	.0000	.0256	-.0001	-.0001	-.0001	.0000
Stddev	.000	.0022	.0003	.0002	.000	.0032	.0000	.0001	.0002	.000
%RSD	1425.	46.10	25.41	67.86	196.8	12.48	68.48	65.52	214.6	1428.
#1	.0001	-.0033	-.0009	.0002	.0000	.0286	.0000	-.0002	.0001	-.0003
#2	.0003	-.0038	-.0011	.0004	.0000	.0222	-.0001	-.0001	-.0001	.0003
#3	-.0005	-.0075	-.0015	.0001	-.0001	.0261	-.0001	.0000	-.0002	-.0001

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	-.0068	.0448	.0218	.0001	-.0009	.1863	.0003	.0000	-.0017	.0003
Stddev	.0015	.0337	.0096	.0000	.0001	.0013	.0001	.000	.0003	.0010
%RSD	22.58	75.22	44.22	31.90	6.176	.7215	46.62	831.0	16.09	300.4
#1	-.0083	.0722	.0277	.0001	-.0009	.1849	.0001	.0000	-.0017	.0015
#2	-.0068	.0551	.0107	.0001	-.0009	.1866	.0003	-.0004	-.0019	-.0002
#3	-.0052	.0072	.0270	.0002	-.0008	.1875	.0004	.0003	-.0014	-.0003

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	.0362	-.0004	.0000	-.0007	-.0010	-.0001	.0078
Stddev	.0004	.0001	.0001	.0001	.0002	.0002	.0000
%RSD	1.182	28.39	223.4	11.72	21.49	201.0	.3654
#1	.0367	-.0004	.0000	-.0007	-.0009	.0000	.0078
#2	.0360	-.0005	.0001	-.0008	-.0012	-.0003	.0079
#3	.0359	-.0003	-.0001	-.0007	-.0008	.0000	.0078

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	3170.4	7633.8	43515.	3495.4
Stddev	4.1	8.0	234.	28.0
%RSD	.13079	.10440	.53791	.80094
#1	3167.6	7637.0	43766.	3464.1
#2	3175.1	7639.8	43478.	3504.1
#3	3168.4	7624.8	43303.	3518.0

Zoom In
Zoom Out

Sample Name: FA23173-1 Acquired: 4/2/2015 9:53:53 Type: Unk
Method: 60102007_041712(v212) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	.0001	.0289	-.0003	.0060	.0000	12.75	.0007	.0018	.0007	.0004
Stddev	.0002	.0012	.0005	.0002	.000	.01	.0000	.0000	.0002	.0002
%RSD	189.3	4.316	159.0	2.871	512.0	.1164	4.258	2.341	24.64	43.29
#1	.0002	.0294	.0003	.0061	.0001	12.74	.0006	.0019	.0005	.0004
#2	.0004	.0297	-.0006	.0058	-.0001	12.73	.0007	.0018	.0007	.0003
#3	-.0001	.0274	-.0006	.0062	.0000	12.76	.0007	.0018	.0009	.0006

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	.0106	.6494	1.122	.0246	-.0003	10.33	.0009	-.0009	-.0018	.0002
Stddev	.0039	.0213	.033	.0001	.0001	.02	.0002	.0004	.0003	.0007
%RSD	36.61	3.275	2.933	.3126	46.37	.2206	25.23	44.54	14.88	394.5
#1	.0096	.6596	1.095	.0245	-.0003	10.33	.0010	-.0011	-.0016	.0003
#2	.0074	.6636	1.114	.0246	-.0001	10.30	.0006	-.0004	-.0021	-.0006
#3	.0149	.6249	1.159	.0247	-.0004	10.35	.0011	-.0011	-.0018	.0008

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	4.260	-.0002	.0211	.0003	-.0004	.0014	.0154
Stddev	.003	.0002	.0001	.0001	.0006	.0000	.0002
%RSD	.0577	108.5	.5676	15.92	147.6	3.139	1.047
#1	4.263	-.0001	.0210	.0003	.0001	.0014	.0153
#2	4.260	-.0003	.0212	.0004	-.0010	.0014	.0156
#3	4.258	.0000	.0212	.0003	-.0002	.0014	.0153

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	3053.8	7615.5	42722.	3504.0
Stddev	5.9	17.2	39.	8.4
%RSD	.19397	.22550	.09211	.23893
#1	3048.4	7598.3	42687.	3494.5
#2	3052.8	7615.6	42715.	3510.5
#3	3060.1	7632.6	42764.	3506.9

Zoom In
Zoom Out

Sample Name: FA23173-2 Acquired: 4/2/2015 9:58:39 Type: Unk
Method: 60102007_041712(v212) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	.0007	.1130	-.0006	.0052	-.0001	16.33	.0007	.0004	.0007	.0007
Stddev	.0003	.0106	.0002	.0001	.0000	.06	.0000	.0001	.0001	.0000
%RSD	46.08	9.370	26.78	1.461	49.69	.3517	6.274	21.16	11.56	7.002
#1	.0010	.1208	-.0006	.0052	-.0001	16.39	.0007	.0004	.0007	.0007
#2	.0004	.1009	-.0008	.0053	-.0001	16.33	.0006	.0003	.0007	.0006
#3	.0007	.1173	-.0004	.0053	.0000	16.27	.0007	.0005	.0006	.0007

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	.0287	.6897	3.612	.0375	-.0010	16.51	.0017	-.0010	-.0026	-.0010
Stddev	.0053	.0112	.048	.0001	.0000	.04	.0001	.0003	.0004	.0011
%RSD	18.36	1.629	1.330	.2545	.4913	.2374	7.944	34.65	14.34	106.5
#1	.0346	.7024	3.567	.0376	-.0010	16.55	.0018	-.0006	-.0027	-.0005
#2	.0245	.6809	3.662	.0374	-.0010	16.52	.0015	-.0013	-.0030	-.0003
#3	.0270	.6859	3.606	.0374	-.0010	16.47	.0017	-.0011	-.0022	-.0023

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	1.754	-.0004	.0097	.0009	.0001	.0008	.0167
Stddev	.005	.0002	.0001	.0001	.0005	.0002	.0001
%RSD	.3006	54.66	.6724	11.31	361.3	29.72	.3338
#1	1.752	-.0006	.0097	.0010	.0002	.0006	.0167
#2	1.760	-.0003	.0096	.0008	-.0004	.0007	.0168
#3	1.750	-.0002	.0096	.0010	.0005	.0011	.0167

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	3001.1	7512.8	41906.	3461.9
Stddev	14.4	30.3	205.	28.5
%RSD	.47818	.40296	.48857	.82197
#1	2997.2	7497.2	41724.	3451.2
#2	2989.1	7493.5	42127.	3440.4
#3	3017.0	7547.7	41866.	3494.2

Zoom In
Zoom Out

Sample Name: FA23173-3 Acquired: 4/2/2015 10:02:48 Type: Unk
Method: 60102007_041712(v212) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	.0007	1.304	-.0006	.0182	.0000	16.02	.0007	.0012	.0049	.0012
Stddev	.0003	.006	.0005	.0002	.000	.09	.0000	.0000	.0003	.0002
%RSD	48.52	.4763	76.63	.8541	198.3	.5589	4.769	4.059	5.414	15.01
#1	.0010	1.309	-.0012	.0182	-.0001	16.11	.0006	.0012	.0046	.0011
#2	.0005	1.297	-.0002	.0184	.0000	15.93	.0007	.0012	.0052	.0011
#3	.0004	1.307	-.0005	.0181	.0000	16.02	.0007	.0011	.0049	.0014

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	.8425	.7557	3.386	.0462	-.0010	11.46	.0024	-.0003	-.0015	.0003
Stddev	.0072	.0361	.047	.0001	.0001	.05	.0002	.0008	.0008	.0001
%RSD	.8513	4.772	1.383	.2478	10.67	.4137	7.710	233.1	51.12	42.41
#1	.8505	.7822	3.413	.0461	-.0009	11.51	.0025	-.0007	-.0024	.0002
#2	.8367	.7703	3.413	.0463	-.0011	11.42	.0022	.0006	-.0008	.0002
#3	.8402	.7146	3.332	.0461	-.0009	11.45	.0025	-.0009	-.0014	.0004

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	3.077	-.0004	.0397	.0405	-.0006	.0043	.0201
Stddev	.001	.0002	.0002	.0003	.0008	.0001	.0000
%RSD	.0397	38.05	.5113	.7354	135.2	2.328	.1140
#1	3.076	-.0002	.0398	.0402	-.0012	.0042	.0201
#2	3.078	-.0005	.0395	.0405	-.0007	.0044	.0201
#3	3.076	-.0005	.0399	.0408	.0003	.0043	.0201

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	3015.5	7579.0	42359.	3487.3
Stddev	2.0	3.7	203.	37.4
%RSD	.06649	.04944	.47927	1.0712
#1	3017.7	7582.1	42545.	3444.1
#2	3014.8	7580.1	42142.	3509.4
#3	3013.9	7574.8	42391.	3508.2

Zoom In Zoom Out

Sample Name: FA23189-20 Acquired: 4/2/2015 10:06:54 Type: Unk
Method: 60102007_041712(v212) Mode: CONC Corr. Factor: 10.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)
Avg	.0034	157.1	.0472	2.322	.0059	F5023.	-.0022	.0489	.1367
Stddev	.0014	.2	.0063	.006	.0014	47.	.0003	.0011	.0024
%RSD	40.25	.1226	13.25	.2652	23.65	.9316	13.27	2.312	1.734
#1	.0030	157.1	.0520	2.329	.0073	4970.	-.0025	.0477	.1344
#2	.0023	157.3	.0495	2.322	.0059	5056.	-.0019	.0499	.1391
#3	.0050	156.9	.0401	2.316	.0045	5044.	-.0022	.0493	.1366

Elem	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
IS Ref	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)
Avg	.1258	123.3	49.77	104.8	1.954	-.0046	118.8	.1236	.0324
Stddev	.0016	.4	.14	.4	.004	.0004	.1	.0022	.0053
%RSD	1.311	.3034	.2908	.4195	.2243	8.639	.0968	1.744	16.23
#1	.1245	123.1	49.67	104.4	1.949	-.0042	118.9	.1212	.0343
#2	.1277	123.8	49.93	104.7	1.957	-.0047	118.8	.1245	.0265
#3	.1254	123.1	49.69	105.2	1.955	-.0050	118.6	.1252	.0365

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	-.0105	-.0061	19.84	.0190	22.36	2.891	-.0073	.3059	.3434
Stddev	.0078	.0237	.03	.0041	.02	.004	.0063	.0028	.0005
%RSD	74.38	388.1	.1692	21.64	.0895	.1363	86.37	.9217	.1431
#1	-.0144	.0176	19.81	.0148	22.33	2.891	.0000	.3047	.3438
#2	-.0157	-.0298	19.88	.0193	22.37	2.895	-.0114	.3039	.3435
#3	-.0015	-.0061	19.83	.0230	22.36	2.887	-.0106	.3091	.3429

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	2539.4	7016.1	38937.	3471.0
Stddev	2.6	14.0	123.	6.1
%RSD	.10149	.19952	.31591	.17677
#1	2537.3	7016.9	39026.	3476.8
#2	2538.5	7001.7	38988.	3464.6
#3	2542.3	7029.7	38797.	3471.6

Zoom In Zoom Out

Sample Name: MP28734-D1 Acquired: 4/2/2015 10:11:07 Type: Unk
Method: 60102007_041712(v212) Mode: CONC Corr. Factor: 10.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	.0002	153.7	.0547	2.335	.0051	4909.	-.0020	.0482	.1336	.1254
Stddev	.0027	.2	.0010	.003	.0007	28.	.0005	.0009	.0016	.0013
%RSD	1240.	.1331	1.885	.1238	13.46	.5791	25.50	1.961	1.234	1.026
#1	.0029	153.7	.0535	2.334	.0044	4888.	-.0015	.0472	.1355	.1249
#2	.0001	154.0	.0553	2.338	.0056	4941.	-.0019	.0491	.1324	.1269
#3	-.0024	153.6	.0553	2.333	.0054	4898.	-.0025	.0483	.1329	.1244

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	121.2	50.42	103.7	1.916	-.0049	118.8	.1222	.0329	-.0296	-.0204
Stddev	.5	.50	.3	.005	.0007	.2	.0021	.0024	.0038	.0143
%RSD	.4229	.9839	.2701	.2429	13.80	.1708	1.714	7.255	12.92	70.11
#1	121.0	49.86	103.7	1.915	-.0041	118.8	.1197	.0330	-.0257	-.0367
#2	121.8	50.77	103.9	1.912	-.0050	119.0	.1233	.0305	-.0298	-.0151
#3	120.8	50.64	103.4	1.922	-.0054	118.6	.1234	.0353	-.0334	-.0095

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	10.71	.0178	21.57	2.669	-.0027	.2954	.3414
Stddev	.02	.0024	.03	.004	.0010	.0018	.0006
%RSD	.2022	13.37	.1299	.1642	37.71	.6187	.1885
#1	10.68	.0158	21.55	2.670	-.0033	.2973	.3410
#2	10.72	.0204	21.60	2.665	-.0015	.2937	.3421
#3	10.72	.0171	21.55	2.673	-.0033	.2951	.3411

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	2559.0	7046.1	39430.	3494.6
Stddev	4.5	14.4	168.	20.9
%RSD	.17744	.20394	.42602	.59872
#1	2561.2	7059.4	39523.	3494.8
#2	2553.8	7030.9	39531.	3473.6
#3	2562.1	7048.1	39236.	3515.4

Zoom In Zoom Out

Sample Name: MP28734-S1 Acquired: 4/2/2015 10:15:20 Type: Unk
Method: 60102007_041712(v212) Mode: CONC Corr. Factor: 10.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	.0560	162.9	2.355	3.948	.0614	3899.	.0515	.5768	.3317	.3927
Stddev	.0057	.3	.015	.011	.0007	47.	.0001	.0009	.0026	.0038
%RSD	10.11	.1972	.6262	.2859	1.089	1.207	.2449	.1576	.7717	.9660
#1	.0586	162.7	2.346	3.946	.0609	3889.	.0513	.5760	.3300	.3971
#2	.0598	163.3	2.347	3.938	.0611	3950.	.0516	.5778	.3347	.3900
#3	.0495	162.7	2.372	3.960	.0621	3857.	.0515	.5766	.3305	.3911

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	129.0	73.01	117.9	2.153	.5238	126.2	.6551	.5282	.1590	2.295
Stddev	.1	.28	.3	.008	.0005	.0	.0017	.0038	.0063	.007
%RSD	.0981	.3881	.2755	.3817	.1022	.0319	.2612	.7270	3.958	.3104
#1	129.0	73.27	118.0	2.158	.5236	126.2	.6544	.5323	.1551	2.303
#2	128.9	73.07	118.1	2.144	.5244	126.2	.6570	.5277	.1556	2.289
#3	129.2	72.71	117.5	2.158	.5235	126.1	.6538	.5247	.1662	2.294

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	8.000	.6072	18.14	2.884	1.871	.7971	.8177
Stddev	.008	.0037	.02	.010	.017	.0035	.0021
%RSD	.0953	.6054	.1114	.3402	.8870	.4356	.2546
#1	8.008	.6030	18.12	2.894	1.872	.7975	.8200
#2	7.993	.6098	18.15	2.874	1.853	.7935	.8171
#3	8.000	.6089	18.16	2.885	1.886	.8004	.8160

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	2597.5	7087.3	39579.	3477.9
Stddev	1.4	5.5	180.	1.0
%RSD	.05203	.07802	.45369	.02946
#1	2596.8	7081.0	39450.	3479.0
#2	2596.6	7090.0	39784.	3477.5
#3	2599.0	7091.0	39504.	3477.1

Zoom In Zoom Out

Sample Name: CCV Acquired: 4/2/2015 10:19:27 Type: QC
Method: 60102007_041712(v212) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2660	42.26	2.114	F2.235	2.085	41.25	2.049	2.065	2.067
Stddev	.0011	.13	.002	.005	.006	.12	.002	.003	.006
%RSD	.4215	.3156	.1058	.2422	.2718	.3027	.1178	.1216	.2766
#1	.2650	42.29	2.113	2.234	2.083	41.26	2.047	2.063	2.062
#2	.2672	42.37	2.114	2.241	2.091	41.37	2.048	2.063	2.073
#3	.2657	42.11	2.117	2.231	2.081	41.12	2.051	2.068	2.066
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value				2.000					
Range				10.00%					

Elem	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.152	40.67	F45.72	41.24	2.150	2.072	43.82	2.110	1.972
Stddev	.004	.13	.19	.17	.008	.011	.11	.003	.003
%RSD	.1915	.3227	.4145	.4169	.3869	.5115	.2526	.1415	.1453
#1	2.149	40.67	45.66	41.24	2.143	2.061	43.86	2.106	1.968
#2	2.157	40.79	45.93	41.42	2.159	2.073	43.91	2.111	1.973
#3	2.151	40.53	45.56	41.07	2.148	2.083	43.70	2.112	1.973
Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value			40.00						
Range			10.00%						

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.109	2.121	2.189	2.145	2.158	2.129	2.026	2.153	2.038
Stddev	.003	.001	.001	.003	.005	.007	.004	.006	.003
%RSD	.1611	.0613	.0307	.1603	.2445	.3236	.2069	.2799	.1405
#1	2.106	2.119	2.188	2.141	2.156	2.122	2.022	2.147	2.035
#2	2.108	2.120	2.188	2.146	2.164	2.136	2.030	2.159	2.040
#3	2.113	2.122	2.189	2.147	2.154	2.128	2.026	2.152	2.040
Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value									
Range									

Zoom In Zoom Out

Sample Name: CCV Acquired: 4/2/2015 10:19:27 Type: QC
Method: 60102007_041712(v212) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2652.5	7260.0	40367.	3438.4
Stddev	5.8	11.1	200.	25.8
%RSD	.22050	.15266	.49612	.74970
#1	2658.9	7272.8	40552.	3427.3
#2	2647.5	7253.1	40154.	3420.0
#3	2650.9	7254.1	40394.	3467.9

Zoom In Zoom Out

Sample Name: CCB Acquired: 4/2/2015 10:23:23 Type: QC
Method: 60102007_041712(v212) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0002	.0003	-.0003	.0001	.0002	.0043	.0000	.0000	.0000
Stddev	.0004	.0058	.0004	.0001	.0001	.0019	.0000	.0000	.000
%RSD	221.4	1665.	124.0	65.01	30.63	43.60	201.9	21160.	807.9
#1	.0005	.0040	-.0007	.0000	.0002	.0056	.0000	.0001	-.0002
#2	-.0002	.0034	.0001	.0001	.0002	.0051	.0000	.0000	.0001
#3	.0002	-.0063	-.0003	.0002	.0001	.0021	.0000	.0000	.0000
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0005	.0173	.0336	-.0030	.0001	F.0020	.0623	.0000	.0003
Stddev	.0002	.0086	.0454	.0134	.0000	.0008	.0134	.0001	.0004
%RSD	37.98	49.32	135.3	446.3	48.09	38.63	21.52	1515.	138.0
#1	.0008	.0269	.0450	.0123	.0000	.0028	.0770	-.0001	.0000
#2	.0004	.0146	.0722	-.0125	.0001	.0018	.0593	.0000	.0001
#3	.0004	.0105	-.0165	-.0088	.0001	.0013	.0507	.0002	.0007
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit						.0010			
Low Limit						-.0010			

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0006	-.0007	.0070	-.0002	.0001	.0008	-.0001	.0000	-.0002
Stddev	.0011	.0003	.0006	.0001	.0001	.0001	.0005	.0001	.0001
%RSD	185.4	47.75	8.362	37.58	116.6	11.96	666.4	1651.	33.37
#1	.0004	-.0004	.0076	-.0002	.0002	.0008	.0001	.0001	-.0002
#2	-.0018	-.0007	.0068	-.0002	.0002	.0008	-.0007	-.0001	-.0002
#3	-.0003	-.0010	.0065	-.0003	.0000	.0007	.0004	.0000	-.0001
Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Zoom In Zoom Out

Sample Name: CCB Acquired: 4/2/2015 10:23:23 Type: QC
Method: 60102007_041712(v212) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3189.7	7660.7	42818.	3532.1
Stddev	5.6	3.8	48.	30.7
%RSD	.17532	.04998	.11102	.87053
#1	3196.0	7664.9	42780.	3500.5
#2	3187.8	7657.3	42871.	3533.9
#3	3185.3	7659.9	42802.	3561.9

Zoom In Zoom Out

Sample Name: CCV Acquired: 4/2/2015 10:50:41 Type: QC
Method: 60102007_041712(v212) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2519	40.34	2.001	2.030	2.025	40.60	2.017	2.016	2.026	2.022
Stddev	.0010	.08	.003	.007	.004	.11	.004	.004	.004	.002
%RSD	.3833	.1965	.1383	.3525	.1903	.2620	.2187	.1917	.1996	.0787
#1	.2512	40.43	1.999	2.038	2.030	40.71	2.012	2.012	2.024	2.021
#2	.2515	40.28	2.004	2.025	2.022	40.49	2.021	2.020	2.030	2.021
#3	.2530	40.31	2.001	2.025	2.024	40.59	2.019	2.017	2.023	2.024
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value										
Range										

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	40.93	40.33	40.64	2.065	2.012	40.61	2.030	1.984	2.002	2.005
Stddev	.07	.10	.15	.001	.007	.11	.003	.000	.001	.006
%RSD	.1588	.2432	.3701	.0304	.3529	.2644	.1466	.0174	.0597	.2964
#1	40.98	40.44	40.74	2.065	2.003	40.73	2.026	1.985	2.001	2.005
#2	40.85	40.30	40.47	2.066	2.015	40.54	2.032	1.984	2.003	2.011
#3	40.94	40.26	40.72	2.065	2.016	40.56	2.030	1.984	2.001	1.999
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value										
Range										

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.063	2.018	2.010	2.060	2.009	2.007	2.019
Stddev	.003	.005	.005	.002	.003	.003	.005
%RSD	.1335	.2352	.2326	.1039	.1267	.1378	.2655
#1	2.062	2.013	2.015	2.058	2.011	2.004	2.012
#2	2.066	2.021	2.006	2.059	2.006	2.010	2.021
#3	2.061	2.021	2.008	2.062	2.010	2.006	2.022
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Zoom In Zoom Out

Sample Name: CCV Acquired: 4/2/2015 10:50:41 Type: QC
Method: 60102007_041712(v212) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2653.8	7236.7	40347.	3433.4
Stddev	5.0	26.8	117.	18.9
%RSD	.18804	.37043	.29005	.54977
#1	2659.2	7267.7	40332.	3431.1
#2	2653.0	7222.4	40238.	3453.3
#3	2649.3	7220.1	40471.	3415.7

Zoom In Zoom Out

Sample Name: CCB Acquired: 4/2/2015 10:54:19 Type: QC
Method: 60102007_041712(v212) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0002	.0094	-.0003	.0004	.0003	.0031	.0002	.0001	.0003
Stddev	.0004	.0022	.0008	.0001	.0000	.0043	.0001	.0000	.0003
%RSD	220.2	22.93	260.8	15.93	13.45	138.4	47.09	38.48	87.28
#1	.0000	.0119	.0006	.0003	.0004	.0040	.0002	.0001	.0007
#2	-.0001	.0085	-.0010	.0004	.0004	-.0016	.0002	.0001	.0002
#3	.0006	.0079	-.0006	.0004	.0003	.0068	.0001	.0001	.0001
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0006	.0299	.0544	.0348	.0003	F.0047	-.0187	.0002	.0000
Stddev	.0001	.0031	.0147	.0281	.0001	.0012	.0047	.0000	.0003
%RSD	17.43	10.29	27.08	80.56	33.95	25.62	25.25	28.46	719.4
#1	.0006	.0331	.0406	.0558	.0004	.0060	-.0241	.0002	.0003
#2	.0007	.0294	.0700	.0029	.0002	.0045	-.0168	.0001	.0002
#3	.0005	.0270	.0527	.0458	.0002	.0036	-.0153	.0002	-.0003
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit						.0010			
Low Limit						-.0010			

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F.0029	.0006	.0001	.0007	.0004	F.0022	.0009	.0002	.0002
Stddev	.0006	.0009	.0001	.0001	.0001	.0002	.0004	.0000	.0001
%RSD	19.66	154.8	122.2	15.03	29.35	7.729	42.78	21.65	54.25
#1	.0035	.0015	.0001	.0007	.0004	.0024	.0011	.0001	.0002
#2	.0025	-.0002	.0000	.0006	.0002	.0022	.0005	.0001	.0001
#3	.0027	.0004	.0002	.0008	.0004	.0021	.0012	.0002	.0001
Check ?	Chk Fail	Chk Pass	None	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit	.0020					.0020			
Low Limit	-.0020					-.0020			

Zoom In Zoom Out

Sample Name: CCB Acquired: 4/2/2015 10:54:19 Type: QC
Method: 60102007_041712(v212) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3188.9	7594.0	42417.	3456.4
Stddev	4.7	10.3	357.	24.7
%RSD	.14670	.13574	.84233	.71413
#1	3187.3	7605.5	42543.	3474.0
#2	3185.3	7585.7	42695.	3428.2
#3	3194.2	7590.7	42014.	3467.1

Zoom In Zoom Out

Sample Name: MP28734-S2 Acquired: 4/2/2015 10:58:10 Type: Unk
Method: 60102007_041712(v212) Mode: CONC Corr. Factor: 10.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	.0483	123.2	2.073	3.293	.0548	3181.	.0490	.5262	.2913	.3340
Stddev	.0002	.1	.003	.006	.0003	16.	.0004	.0011	.0017	.0033
%RSD	.4393	.0986	.1321	.1811	.5800	.5086	.8409	.2159	.5923	.9742
#1	.0483	123.1	2.075	3.297	.0551	3199.	.0487	.5270	.2897	.3304
#2	.0485	123.2	2.070	3.296	.0545	3169.	.0494	.5249	.2910	.3350
#3	.0481	123.3	2.074	3.286	.0550	3174.	.0488	.5268	.2931	.3366

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	104.4	53.96	87.56	1.661	.4957	97.05	.5805	.4880	.1824	2.026
Stddev	.2	.14	.38	.006	.0011	.05	.0029	.0047	.0029	.024
%RSD	.1751	.2529	.4337	.3680	.2298	.0477	.5066	.9602	1.565	1.205
#1	104.2	53.84	87.57	1.663	.4954	97.05	.5816	.4919	.1801	1.998
#2	104.6	54.11	87.94	1.666	.4947	97.00	.5772	.4892	.1814	2.042
#3	104.3	53.92	87.18	1.654	.4969	97.09	.5828	.4828	.1856	2.038

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	4.842	.5443	14.11	2.238	1.734	.6648	.7223
Stddev	.007	.0019	.02	.005	.013	.0047	.0010
%RSD	.1488	.3423	.1300	.2402	.7273	.7095	.1433
#1	4.845	.5464	14.09	2.236	1.737	.6700	.7232
#2	4.834	.5431	14.12	2.244	1.720	.6635	.7212
#3	4.847	.5434	14.11	2.234	1.744	.6608	.7227

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	2635.9	7091.2	39469.	3450.2
Stddev	5.7	5.9	144.	11.6
%RSD	.21685	.08313	.36446	.33741
#1	2629.3	7085.8	39494.	3436.8
#2	2639.6	7097.5	39315.	3455.9
#3	2638.7	7090.2	39599.	3457.8

Zoom In Zoom Out

Sample Name: MP28734-PS1 Acquired: 4/2/2015 11:02:21 Type: Unk
Method: 60102007_041712(v212) Mode: CONC Corr. Factor: 10.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)
Avg	.0542	155.9	.1647	2.498	.0610	F5007.	.0526	.1040	.1948
Stddev	.0042	.5	.0082	.001	.0011	33.	.0002	.0008	.0005
%RSD	7.764	.3523	4.961	.0468	1.841	.6495	.3359	.7492	.2422
#1	.0541	155.5	.1687	2.497	.0601	4985.	.0524	.1047	.1949
#2	.0501	156.5	.1701	2.499	.0623	5044.	.0527	.1032	.1943
#3	.0585	155.6	.1553	2.499	.0607	4991.	.0527	.1042	.1952

Elem	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
IS Ref	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)
Avg	.2351	130.2	56.18	110.6	1.989	.1161	125.1	.2314	.0816
Stddev	.0013	.3	.10	.5	.006	.0014	.3	.0012	.0085
%RSD	.5474	.2441	.1760	.4629	.3108	1.232	.2151	.5330	10.45
#1	.2336	129.9	56.12	110.5	1.983	.1170	124.8	.2300	.0898
#2	.2360	130.6	56.30	111.1	1.987	.1144	125.4	.2320	.0728
#3	.2357	130.3	56.14	110.1	1.995	.1168	125.0	.2323	.0821

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	.1125	.0989	10.95	.0772	21.08	2.827	.1036	.3413	.6206
Stddev	.0025	.0101	.02	.0015	.06	.008	.0042	.0025	.0008
%RSD	2.262	10.18	.1529	1.961	.2618	.2943	4.008	.7337	.1275
#1	.1111	.1094	10.94	.0769	21.02	2.819	.1076	.3434	.6214
#2	.1109	.0980	10.95	.0788	21.12	2.827	.1038	.3385	.6205
#3	.1154	.0894	10.97	.0758	21.09	2.836	.0993	.3419	.6198

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	2554.5	7049.4	39311.	3516.0
Stddev	2.9	2.0	282.	25.4
%RSD	.11525	.02830	.71771	.72120
#1	2551.4	7047.9	39567.	3506.0
#2	2555.0	7048.8	39358.	3497.1
#3	2557.2	7051.7	39008.	3544.8

Zoom In Zoom Out

Sample Name: MP28734-SD1 Acquired: 4/2/2015 11:06:34 Type: Unk
Method: 60102007_041712(v212) Mode: CONC Corr. Factor: 50.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	.0203	148.0	.0196	2.126	.0096	5015.	-.0001	.0517	.1567	.1354
Stddev	.0139	.9	.0248	.019	.0056	4.	.0011	.0028	.0106	.0113
%RSD	68.29	.6350	126.5	.9099	57.92	.0734	1813.	5.433	6.767	8.337
#1	.0128	148.7	.0459	2.108	.0101	5016.	-.0010	.0547	.1527	.1474
#2	.0363	148.5	.0161	2.146	.0038	5019.	.0011	.0513	.1487	.1250
#3	.0118	147.0	-.0033	2.123	.0149	5011.	-.0003	.0492	.1687	.1338

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	124.4	44.26	107.7	1.878	-.0119	105.3	.1135	-.0430	-.0445	-.0323
Stddev	.4	1.79	1.0	.007	.0090	.4	.0116	.0095	.0329	.0637
%RSD	.3348	4.051	.9640	.3765	75.83	.3496	10.23	22.18	73.93	197.2
#1	124.0	42.19	106.5	1.878	-.0057	105.6	.1034	-.0457	-.0629	-.0011
#2	124.4	45.21	108.6	1.871	-.0077	104.9	.1109	-.0509	-.0642	.0097
#3	124.9	45.37	108.0	1.885	-.0223	105.4	.1262	-.0324	-.0065	-.1057

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	13.96	.0263	20.11	2.780	.0539	.2762	.3386
Stddev	.09	.0027	.02	.014	.0180	.0048	.0013
%RSD	.6406	10.44	.1044	.5066	33.49	1.744	.3737
#1	13.95	.0247	20.14	2.775	.0669	.2799	.3375
#2	14.05	.0248	20.10	2.770	.0615	.2708	.3400
#3	13.87	.0295	20.10	2.796	.0333	.2780	.3384

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	2914.7	7444.1	41677.	3498.9
Stddev	5.0	18.0	150.	27.3
%RSD	.17268	.24132	.35902	.77942
#1	2919.9	7455.2	41723.	3530.1
#2	2914.4	7453.8	41799.	3480.0
#3	2909.8	7423.4	41510.	3486.5

Zoom In Zoom Out

Sample Name: FA23189-1 Acquired: 4/2/2015 11:10:40 Type: Unk
Method: 60102007_041712(v212) Mode: CONC Corr. Factor: 10.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)
Avg	.0002	69.99	.0378	1.199	.0028	4147.	-.0015	.0256	.0638
Stddev	.0039	.29	.0069	.003	.0002	25.	.0001	.0008	.0019
%RSD	2522.	.4132	18.24	.2648	8.951	.5965	6.527	3.140	2.949
#1	.0046	70.07	.0345	1.200	.0026	4125.	-.0016	.0264	.0625
#2	-.0022	69.66	.0458	1.195	.0030	4143.	-.0014	.0255	.0659
#3	-.0019	70.22	.0332	1.201	.0027	4174.	-.0015	.0248	.0629

Elem	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
IS Ref	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)
Avg	.0495	59.88	22.72	66.58	1.036	.0017	72.15	.0566	.3748
Stddev	.0021	.33	.08	.71	.003	.0009	.20	.0016	.0060
%RSD	4.289	.5490	.3344	1.065	.3149	51.64	.2731	2.806	1.605
#1	.0515	60.15	22.80	67.18	1.035	.0025	72.19	.0549	.3810
#2	.0497	59.52	22.71	65.79	1.033	.0019	71.94	.0580	.3690
#3	.0472	59.98	22.65	66.76	1.040	.0007	72.32	.0569	.3744

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	.0073	-.0240	7.128	.0221	F55.57	1.650	.0011	.1797	.1632
Stddev	.0118	.0107	.010	.0038	.85	.004	.0005	.0004	.0003
%RSD	161.5	44.68	.1362	17.13	1.536	.2188	48.28	.2444	.2057
#1	-.0057	-.0288	7.137	.0236	56.46	1.650	.0016	.1792	.1634
#2	.0174	-.0117	7.129	.0249	55.47	1.647	.0005	.1801	.1635
#3	.0104	-.0316	7.117	.0178	54.77	1.654	.0013	.1798	.1629

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	2624.2	7095.9	39549.	3483.9
Stddev	1.1	8.9	189.	9.4
%RSD	.04184	.12531	.47679	.27047
#1	2624.5	7106.1	39589.	3477.4
#2	2625.1	7092.2	39714.	3494.7
#3	2623.0	7089.5	39343.	3479.5

Zoom In Zoom Out

Sample Name: FA23189-3 Acquired: 4/2/2015 11:15:03 Type: Unk
Method: 60102007_041712(v212) Mode: CONC Corr. Factor: 10.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	.0046	69.48	.0224	.5424	.0030	3410.	-.0013	.0209	.0620	.0631
Stddev	.0014	.23	.0048	.0031	.0001	17.	.0001	.0018	.0017	.0018
%RSD	30.12	.3296	21.52	.5666	4.886	.5081	10.94	8.684	2.712	2.870
#1	.0062	69.69	.0271	.5455	.0029	3426.	-.0012	.0230	.0618	.0610
#2	.0037	69.52	.0225	.5394	.0031	3412.	-.0014	.0200	.0638	.0640
#3	.0040	69.24	.0175	.5423	.0029	3392.	-.0012	.0197	.0604	.0643

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	58.79	20.12	100.1	1.467	.0022	41.09	.0506	.6420	.0019	-.0192
Stddev	.06	.21	.8	.003	.0010	.05	.0012	.0073	.0047	.0017
%RSD	.1093	1.042	.7640	.2219	43.59	.1253	2.305	1.131	249.7	8.739
#1	58.84	19.90	100.9	1.464	.0011	41.11	.0492	.6343	-.0013	-.0178
#2	58.82	20.32	99.35	1.470	.0029	41.04	.0513	.6488	.0073	-.0187
#3	58.72	20.13	100.1	1.468	.0025	41.13	.0512	.6429	-.0004	-.0210

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	5.122	.0188	19.89	1.547	.0019	.1235	.1898
Stddev	.005	.0019	.01	.004	.0027	.0009	.0007
%RSD	.1061	9.833	.0522	.2710	140.4	.6940	.3624
#1	5.125	.0173	19.90	1.548	.0031	.1225	.1895
#2	5.125	.0209	19.89	1.551	-.0012	.1242	.1892
#3	5.116	.0183	19.88	1.543	.0039	.1237	.1905

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	2650.3	7128.5	39925.	3427.7
Stddev	2.3	5.4	73.	7.3
%RSD	.08578	.07552	.18214	.21258
#1	2649.7	7122.3	39889.	3423.2
#2	2652.9	7132.3	39878.	3423.9
#3	2648.5	7130.9	40009.	3436.1

Zoom In Zoom Out

Sample Name: FA23189-5 Acquired: 4/2/2015 11:19:16 Type: Unk
Method: 60102007_041712(v212) Mode: CONC Corr. Factor: 10.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	-.0017	110.9	.0466	2.680	.0052	4611.	-.0009	.0438	.1070	.1108
Stddev	.0039	2.2	.0097	.049	.0008	111.	.0006	.0005	.0020	.0026
%RSD	234.1	1.956	20.92	1.811	15.74	2.404	66.32	1.232	1.902	2.322
#1	-.0043	108.4	.0385	2.625	.0043	4488.	-.0003	.0444	.1064	.1095
#2	.0028	112.5	.0574	2.713	.0059	4642.	-.0011	.0434	.1093	.1138
#3	-.0034	111.8	.0438	2.703	.0054	4703.	-.0015	.0437	.1054	.1092

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	96.59	37.46	62.48	1.368	.0005	15.20	.0973	.0139	-.0113	.0029
Stddev	1.77	.66	.82	.006	.0003	.26	.0012	.0036	.0084	.0243
%RSD	1.835	1.761	1.314	.4540	64.61	1.693	1.200	25.89	74.50	847.2
#1	94.55	36.73	61.60	1.369	.0001	14.91	.0959	.0103	-.0157	-.0160
#2	97.38	37.62	62.62	1.362	.0006	15.40	.0978	.0175	-.0016	.0303
#3	97.82	38.02	63.22	1.375	.0007	15.29	.0980	.0139	-.0165	-.0057

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	7.980	.0246	15.40	1.964	-.0034	.2450	.2724
Stddev	.032	.0012	.27	.009	.0026	.0030	.0006
%RSD	.4015	4.805	1.723	.4371	75.98	1.209	.2346
#1	7.943	.0244	15.09	1.958	-.0016	.2423	.2726
#2	7.995	.0259	15.59	1.961	-.0023	.2446	.2729
#3	8.002	.0236	15.51	1.974	-.0064	.2481	.2717

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	2586.4	7017.4	39230.	3537.7
Stddev	3.3	7.4	216.	77.3
%RSD	.12605	.10498	.55046	2.1847
#1	2590.2	7025.7	39463.	3626.1
#2	2584.4	7011.7	39189.	3504.4
#3	2584.7	7014.8	39037.	3482.7

Zoom In Zoom Out

Sample Name: FA23189-7 Acquired: 4/2/2015 11:23:30 Type: Unk
Method: 60102007_041712(v212) Mode: CONC Corr. Factor: 10.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	.0038	253.4	.0770	1.831	.0112	3477.	.0021	.0810	.2432	.2280
Stddev	.0046	.7	.0071	.005	.0010	49.	.0002	.0005	.0034	.0014
%RSD	121.9	.2652	9.232	.2692	8.776	1.420	8.297	.6735	1.402	.6134
#1	.0054	252.8	.0768	1.826	.0104	3430.	.0022	.0810	.2410	.2281
#2	.0074	253.2	.0700	1.832	.0123	3528.	.0021	.0815	.2416	.2265
#3	-.0014	254.1	.0842	1.836	.0108	3472.	.0019	.0804	.2472	.2293

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	215.1	81.38	133.9	3.058	.0088	107.2	.2104	.0867	-.0111	-.0077
Stddev	.9	.17	.3	.014	.0009	.4	.0018	.0130	.0084	.0064
%RSD	.4304	.2111	.2072	.4615	10.73	.3819	.8752	15.02	75.57	82.43
#1	214.3	81.33	134.0	3.049	.0098	106.9	.2110	.0852	-.0042	-.0072
#2	214.9	81.57	134.0	3.050	.0085	107.2	.2084	.1004	-.0205	-.0144
#3	216.1	81.23	133.5	3.074	.0080	107.7	.2119	.0745	-.0086	-.0016

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	11.97	.0270	10.42	3.314	.0017	.4577	.6251
Stddev	.03	.0005	.03	.007	.0045	.0011	.0011
%RSD	.2458	2.021	.2924	.2131	267.6	.2458	.1793
#1	12.00	.0264	10.39	3.313	-.0004	.4569	.6243
#2	11.98	.0271	10.41	3.307	.0069	.4590	.6246
#3	11.94	.0274	10.45	3.321	-.0015	.4573	.6264

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	2624.8	7255.6	40319.	3556.5
Stddev	7.5	2.7	139.	15.8
%RSD	.28580	.03697	.34559	.44291
#1	2633.4	7256.8	40398.	3572.0
#2	2619.3	7257.5	40402.	3556.9
#3	2621.8	7252.5	40158.	3540.5

Zoom In Zoom Out

Sample Name: FA23189-9 Acquired: 4/2/2015 11:27:44 Type: Unk
Method: 60102007_041712(v212) Mode: CONC Corr. Factor: 10.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	.0009	126.9	.0416	1.323	.0055	3562.	-.0007	.0440	.1204	.1215
Stddev	.0021	.6	.0030	.004	.0003	35.	.0003	.0014	.0025	.0017
%RSD	237.6	.4719	7.314	.3385	6.283	.9690	41.99	3.220	2.070	1.423
#1	-.0005	127.5	.0394	1.325	.0054	3583.	-.0010	.0452	.1233	.1202
#2	.0032	127.1	.0404	1.326	.0052	3581.	-.0005	.0444	.1191	.1235
#3	-.0001	126.3	.0451	1.318	.0059	3522.	-.0005	.0425	.1189	.1210

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	107.9	40.67	116.8	1.932	.0077	128.0	.1055	.0615	.0002	-.0041
Stddev	.4	.32	.6	.007	.0008	.6	.0012	.0008	.0125	.0107
%RSD	.3459	.7836	.5333	.3835	10.07	.4353	1.147	1.347	8060.	260.6
#1	108.1	40.89	116.5	1.926	.0070	128.3	.1061	.0625	.0118	-.0058
#2	108.3	40.80	117.5	1.931	.0077	128.3	.1063	.0612	-.0130	.0073
#3	107.5	40.30	116.4	1.940	.0085	127.3	.1041	.0609	.0016	-.0139

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	9.710	.0234	12.93	2.421	-.0012	.2718	.2953
Stddev	.007	.0028	.05	.005	.0104	.0032	.0017
%RSD	.0721	11.93	.3842	.2227	866.1	1.185	.5922
#1	9.702	.0222	12.95	2.416	-.0003	.2736	.2937
#2	9.711	.0214	12.96	2.420	.0087	.2681	.2951
#3	9.716	.0266	12.87	2.427	-.0121	.2736	.2972

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	2622.2	7130.2	39896.	3514.9
Stddev	6.2	12.6	35.	26.6
%RSD	.23770	.17634	.08884	.75707
#1	2629.3	7144.4	39918.	3491.8
#2	2619.1	7120.4	39913.	3508.7
#3	2618.0	7125.8	39855.	3544.0

Zoom In Zoom Out

Sample Name: FA23189-11 Acquired: 4/2/2015 11:31:59 Type: Unk
Method: 60102007_041712(v212) Mode: CONC Corr. Factor: 10.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)
Avg	.0018	123.1	.0385	1.629	.0049	3147.	-.0004	.0394	.1117
Stddev	.0021	.2	.0076	.004	.0010	16.	.0001	.0004	.0003
%RSD	116.4	.1434	19.71	.2196	21.21	.5233	21.79	1.081	.3056
#1	-.0004	122.9	.0352	1.630	.0060	3162.	-.0005	.0389	.1121
#2	.0039	123.2	.0332	1.625	.0046	3130.	-.0003	.0397	.1115
#3	.0020	123.2	.0472	1.632	.0040	3149.	-.0004	.0397	.1116

Elem	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
IS Ref	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)
Avg	.0927	101.5	42.29	135.1	1.791	.0135	83.65	.0927	.0456
Stddev	.0028	.0	.15	1.2	.001	.0008	.12	.0008	.0091
%RSD	3.057	.0166	.3568	.9173	.0425	5.701	.1456	.8937	19.98
#1	.0959	101.5	42.30	135.3	1.791	.0138	83.76	.0917	.0441
#2	.0920	101.5	42.43	133.7	1.792	.0141	83.51	.0932	.0554
#3	.0904	101.6	42.13	136.1	1.791	.0126	83.67	.0931	.0373

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	-.0075	-.0058	7.994	.0221	F64.40	2.559	.0036	.2433	.2790
Stddev	.0086	.0191	.018	.0012	.53	.001	.0066	.0011	.0003
%RSD	115.4	330.4	.2306	5.527	.8288	.0520	182.5	.4349	.0979
#1	-.0165	.0077	7.974	.0207	64.18	2.558	.0100	.2420	.2788
#2	-.0065	.0026	8.009	.0228	64.02	2.560	-.0031	.2440	.2791
#3	.0006	-.0276	8.000	.0227	65.01	2.558	.0039	.2438	.2793

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	2674.0	7262.8	40818.	3568.4
Stddev	4.5	3.5	27.	18.3
%RSD	.16851	.04760	.06492	.51245
#1	2676.2	7260.8	40790.	3563.4
#2	2677.0	7266.8	40843.	3588.7
#3	2668.8	7260.9	40821.	3553.1

Zoom In Zoom Out

Sample Name: FA23189-13 Acquired: 4/2/2015 11:36:22 Type: Unk
Method: 60102007_041712(v212) Mode: CONC Corr. Factor: 10.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	-.0024	85.83	.0142	.8005	.0042	3909.	-.0013	.0265	.0691	.0696
Stddev	.0024	.16	.0041	.0044	.0005	69.	.0002	.0009	.0035	.0020
%RSD	99.24	.1837	29.25	.5512	11.24	1.760	17.47	3.250	5.052	2.812
#1	-.0044	86.01	.0146	.7955	.0045	3833.	-.0011	.0274	.0706	.0708
#2	-.0030	85.76	.0098	.8039	.0043	3927.	-.0013	.0265	.0716	.0674
#3	.0002	85.72	.0181	.8021	.0036	3967.	-.0016	.0257	.0651	.0707

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	65.43	25.99	165.8	1.459	.0042	87.41	.0598	.1041	-.0045	.0005
Stddev	.21	.07	.5	.004	.0004	.08	.0003	.0027	.0014	.0030
%RSD	.3218	.2705	.3037	.2616	10.43	.0871	.4912	2.616	31.01	574.6
#1	65.22	26.04	166.3	1.455	.0038	87.35	.0596	.1072	-.0036	-.0008
#2	65.44	26.01	165.4	1.462	.0042	87.49	.0601	.1020	-.0037	-.0016
#3	65.64	25.91	165.7	1.459	.0047	87.37	.0597	.1031	-.0061	.0039

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	6.883	.0220	29.49	1.667	.0013	.1384	.2035
Stddev	.012	.0015	.04	.007	.0039	.0013	.0009
%RSD	.1699	6.621	.1187	.4124	305.2	.9710	.4459
#1	6.870	.0233	29.45	1.662	.0007	.1396	.2025
#2	6.889	.0223	29.48	1.665	.0054	.1387	.2036
#3	6.891	.0204	29.52	1.675	-.0023	.1370	.2043

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	2618.2	7106.3	40132.	3510.7
Stddev	3.0	10.4	78.	4.6
%RSD	.11457	.14653	.19499	.13200
#1	2621.3	7108.7	40198.	3511.6
#2	2615.3	7094.9	40153.	3514.8
#3	2618.0	7115.3	40045.	3505.7

Zoom In Zoom Out

Sample Name: CCV Acquired: 4/2/2015 11:40:35 Type: QC
Method: 60102007_041712(v212) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2454	39.86	1.989	2.005	1.976	39.82	2.016	2.018	2.002	1.976
Stddev	.0009	.04	.002	.002	.002	.05	.003	.003	.003	.006
%RSD	.3754	.1031	.0884	.1085	.1210	.1214	.1345	.1230	.1292	.3148
#1	.2444	39.82	1.987	2.008	1.976	39.77	2.013	2.015	1.999	1.971
#2	.2462	39.90	1.989	2.003	1.979	39.86	2.017	2.018	2.004	1.975
#3	.2456	39.85	1.990	2.005	1.974	39.83	2.018	2.020	2.004	1.983
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value										
Range										

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	39.99	40.08	39.24	2.010	2.006	40.73	2.016	1.986	1.990	1.994
Stddev	.00	.03	.09	.017	.010	.02	.001	.003	.005	.005
%RSD	.0106	.0642	.2310	.8553	.5050	.0454	.0695	.1333	.2668	.2443
#1	39.99	40.05	39.14	2.002	1.995	40.71	2.015	1.988	1.984	1.988
#2	39.99	40.10	39.29	1.998	2.007	40.74	2.017	1.983	1.991	1.997
#3	40.00	40.08	39.29	2.029	2.015	40.75	2.016	1.988	1.995	1.996
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value										
Range										

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.051	1.981	1.991	2.036	2.011	1.957	2.006
Stddev	.005	.003	.002	.005	.002	.003	.002
%RSD	.2639	.1386	.1153	.2553	.1146	.1324	.1009
#1	2.045	1.979	1.992	2.030	2.009	1.954	2.004
#2	2.056	1.984	1.993	2.040	2.012	1.958	2.007
#3	2.052	1.981	1.989	2.038	2.013	1.958	2.008
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Zoom In Zoom Out

Sample Name: CCV Acquired: 4/2/2015 11:40:35 Type: QC
Method: 60102007_041712(v212) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2666.4	7324.8	41526.	3534.4
Stddev	2.8	5.0	31.	7.9
%RSD	.10526	.06893	.07525	.22371
#1	2665.3	7330.4	41506.	3539.3
#2	2669.5	7323.4	41510.	3538.5
#3	2664.2	7320.5	41562.	3525.3

Zoom In Zoom Out

Sample Name: CCB Acquired: 4/2/2015 11:44:36 Type: QC
Method: 60102007_041712(v212) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000	.0008	-.0005	.0001	.0001	.0025	.0001	.0001	.0003
Stddev	.0000	.0053	.0004	.0000	.0000	.0025	.0000	.0000	.0002
%RSD	54.30	665.7	94.00	35.29	25.55	98.95	10.80	32.33	57.73
#1	.0000	.0019	.0000	.0001	.0002	.0021	.0001	.0002	.0003
#2	.0000	-.0049	-.0007	.0002	.0001	.0053	.0001	.0001	.0001
#3	.0000	.0054	-.0008	.0002	.0001	.0003	.0001	.0001	.0004
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0002	.0233	.0638	.0163	.0001	F.0031	-.0400	.0001	-.0004
Stddev	.0003	.0026	.0339	.0319	.0000	.0009	.0011	.0002	.0002
%RSD	129.0	11.14	53.03	195.2	26.39	30.92	2.658	258.1	37.68
#1	.0000	.0253	.0719	.0046	.0002	.0040	-.0399	.0002	-.0006
#2	.0002	.0203	.0929	.0524	.0001	.0030	-.0389	-.0001	-.0003
#3	.0005	.0242	.0267	-.0081	.0001	.0021	-.0411	.0000	-.0004
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit						.0010			
Low Limit						-.0010			

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0011	.0002	-.0012	.0003	.0003	.0011	.0008	.0002	.0000
Stddev	.0002	.0017	.0004	.0001	.0000	.0002	.0004	.0001	.0000
%RSD	13.27	822.1	37.55	40.08	7.678	18.04	52.55	41.44	2370.
#1	.0013	-.0009	-.0010	.0002	.0003	.0013	.0009	.0002	.0000
#2	.0012	-.0006	-.0017	.0005	.0003	.0011	.0013	.0002	.0000
#3	.0010	.0021	-.0009	.0003	.0002	.0009	.0004	.0001	.0000
Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Zoom In
Zoom Out

Sample Name: CCB Acquired: 4/2/2015 11:44:36 Type: QC
Method: 60102007_041712(v212) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Int. Std.	ln2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3221.7	7755.1	43864.	3551.4
Stddev	7.4	15.7	93.	12.3
%RSD	.23097	.20206	.21088	.34529
#1	3214.2	7743.9	43909.	3557.8
#2	3229.1	7773.0	43758.	3559.2
#3	3221.6	7748.3	43926.	3537.3

Zoom In
Zoom Out

Sample Name: FA23189-14 Acquired: 4/2/2015 11:48:49 Type: Unk
Method: 60102007_041712(v212) Mode: CONC Corr. Factor: 10.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	-.0034	56.98	.0168	.6684	.0026	4148.	-.0015	.0223	.0497	.0598
Stddev	.0055	.11	.0044	.0026	.0007	19.	.0004	.0002	.0017	.0020
%RSD	162.5	.1982	26.06	.3825	27.84	.4602	30.62	.6794	3.347	3.289
#1	.0013	56.91	.0218	.6711	.0019	4169.	-.0020	.0221	.0498	.0616
#2	-.0020	56.91	.0152	.6682	.0024	4145.	-.0012	.0224	.0480	.0600
#3	-.0094	57.11	.0135	.6660	.0033	4131.	-.0012	.0224	.0514	.0577

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(ln2306)	(Y_2243)	(Y_2243)
Avg	45.79	20.55	94.82	1.013	.0078	102.2	.0475	-.0036	-.0013	-.0228
Stddev	.26	.18	.41	.003	.0011	.1	.0012	.0053	.0120	.0093
%RSD	.5617	.8684	.4332	.3177	13.48	.0962	2.517	146.1	956.1	40.56
#1	46.02	20.63	94.56	1.015	.0089	102.2	.0463	-.0049	-.0137	-.0170
#2	45.51	20.34	94.60	1.009	.0068	102.0	.0487	.0022	-.0005	-.0180
#3	45.82	20.68	95.29	1.015	.0076	102.2	.0476	-.0082	.0103	-.0335

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(ln2306)	(Y_3600)	(Y_2243)
Avg	7.542	.0190	28.63	1.282	.0030	.1112	.1292
Stddev	.011	.0007	.01	.002	.0061	.0003	.0007
%RSD	.1425	3.791	.0337	.1544	205.7	.3112	.5052
#1	7.531	.0198	28.62	1.280	.0071	.1109	.1285
#2	7.543	.0184	28.62	1.284	-.0040	.1111	.1292
#3	7.552	.0189	28.64	1.283	.0058	.1116	.1298

Int. Std.	ln2306	Y_2243	Y_3600	Y_3710
Avg	2623.6	7094.9	40080.	3535.2
Stddev	.9	8.8	93.	7.9
%RSD	.03440	.12341	.23241	.22279
#1	2624.0	7089.1	39973.	3535.7
#2	2622.5	7090.8	40144.	3542.8
#3	2624.2	7105.0	40122.	3527.0

Zoom In
Zoom Out

Sample Name: FA23189-16 Acquired: 4/2/2015 11:53:05 Type: Unk
Method: 60102007_041712(v212) Mode: CONC Corr. Factor: 10.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	-.0011	82.39	.0230	.5992	.0031	4037.	-.0010	.0279	.0736	.0693
Stddev	.0017	.24	.0073	.0038	.0010	58.	.0004	.0006	.0008	.0014
%RSD	161.1	.2906	31.64	.6262	31.23	1.428	42.66	2.196	1.088	1.982
#1	-.0017	82.45	.0229	.5974	.0022	3982.	-.0008	.0285	.0745	.0689
#2	.0009	82.13	.0303	.5967	.0041	4034.	-.0008	.0273	.0732	.0682
#3	-.0023	82.60	.0158	.6035	.0030	4097.	-.0015	.0280	.0731	.0709

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(ln2306)	(Y_2243)	(Y_2243)
Avg	65.52	30.64	135.8	1.381	.0069	128.7	.0592	.0467	-.0126	.0017
Stddev	.38	.28	.5	.006	.0000	.4	.0026	.0032	.0069	.0143
%RSD	.5748	.9151	.3859	.4067	.2212	.3112	4.387	6.811	54.61	835.0
#1	65.62	30.81	135.6	1.383	.0069	128.8	.0591	.0476	-.0192	-.0084
#2	65.10	30.32	135.4	1.375	.0069	128.2	.0618	.0432	-.0055	.0180
#3	65.83	30.81	136.4	1.386	.0070	129.0	.0566	.0493	-.0131	-.0045

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(ln2306)	(Y_3600)	(Y_2243)
Avg	7.458	.0199	23.62	1.834	.0001	.1808	.1980
Stddev	.020	.0008	.08	.006	.0061	.0037	.0005
%RSD	.2680	3.765	.3433	.3057	4899.	2.047	.2644
#1	7.472	.0194	23.64	1.834	.0002	.1818	.1985
#2	7.467	.0208	23.53	1.829	-.0060	.1767	.1980
#3	7.435	.0196	23.68	1.840	.0061	.1839	.1975

Int. Std.	ln2306	Y_2243	Y_3600	Y_3710
Avg	2630.1	7124.7	40153.	3557.1
Stddev	1.6	3.2	134.	26.6
%RSD	.06197	.04476	.33476	.74752
#1	2632.0	7122.1	40078.	3568.9
#2	2629.1	7123.7	40308.	3575.7
#3	2629.2	7128.3	40072.	3526.6

Zoom In
Zoom Out

Sample Name: FA23189-18 Acquired: 4/2/2015 11:57:19 Type: Unk
Method: 60102007_041712(v212) Mode: CONC Corr. Factor: 10.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	-.0029	65.95	.0129	.6944	.0028	4103.	-.0016	.0215	.0557	.0557
Stddev	.0015	.07	.0059	.0011	.0000	39.	.0001	.0007	.0018	.0012
%RSD	51.34	.1039	45.94	.1514	.9994	.9408	7.641	3.487	3.197	2.122
#1	-.0043	65.94	.0194	.6933	.0028	4063.	-.0016	.0217	.0544	.0567
#2	-.0014	65.88	.0077	.6954	.0027	4139.	-.0016	.0221	.0577	.0544
#3	-.0029	66.02	.0117	.6947	.0028	4107.	-.0014	.0207	.0550	.0561

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(ln2306)	(Y_2243)	(Y_2243)
Avg	51.39	24.85	85.70	1.089	.0036	81.51	.0516	.0190	-.0008	-.0075
Stddev	.14	.15	.82	.003	.0004	.03	.0009	.0016	.0073	.0167
%RSD	.2676	.6016	.9546	.2460	12.36	.0338	1.672	8.323	951.5	222.0
#1	51.37	24.90	84.96	1.090	.0036	81.53	.0506	.0205	-.0065	.0117
#2	51.26	24.69	86.58	1.090	.0032	81.52	.0520	.0193	.0074	-.0179
#3	51.53	24.98	85.56	1.085	.0040	81.48	.0522	.0173	-.0032	-.0163

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(ln2306)	(Y_3600)	(Y_2243)
Avg	7.723	.0214	37.81	1.404	-.0030	.1275	.1592
Stddev	.018	.0021	.06	.008	.0030	.0022	.0007
%RSD	.2347	10.04	.1613	.5442	99.95	1.714	.4554
#1	7.703	.0212	37.87	1.408	-.0049	.1295	.1587
#2	7.730	.0236	37.75	1.409	-.0046	.1252	.1589
#3	7.737	.0193	37.82	1.395	.0005	.1278	.1600

Int. Std.	ln2306	Y_2243	Y_3600	Y_3710
Avg	2631.0	7122.1	40149.	3605.5
Stddev	2.9	13.9	57.	30.1
%RSD	.11051	.19580	.14302	.83467
#1	2632.2	7136.3	40152.	3637.1
#2	2627.7	7108.4	40205.	3577.1
#3	2633.1	7121.5	40090.	3602.4

Zoom In
Zoom Out

Sample Name: FA23189-22 Acquired: 4/2/2015 12:01:33 Type: Unk
Method: 60102007_041712(v212) Mode: CONC Corr. Factor: 10.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	-.0031	125.9	.0422	1.560	.0058	4060.	-.0007	.0429	.1220	.0970
Stddev	.0036	.1	.0076	.004	.0007	50.	.0002	.0009	.0013	.0026
%RSD	115.0	.0918	18.07	.2258	11.31	1.241	35.62	2.177	1.045	2.635
#1	-.0069	126.0	.0473	1.558	.0061	4093.	-.0004	.0423	.1235	.0944
#2	-.0025	125.8	.0334	1.557	.0063	4002.	-.0008	.0423	.1214	.0995
#3	.0001	126.1	.0459	1.564	.0051	4084.	-.0008	.0440	.1211	.0971

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	106.4	39.53	91.82	1.883	.0003	76.48	.1046	.0357	-.0020	-.0042
Stddev	.4	.31	.82	.004	.0006	.31	.0007	.0014	.0046	.0047
%RSD	.3907	.7743	.8927	.2026	212.4	.4105	.6709	3.810	233.9	114.2
#1	106.6	39.84	92.55	1.879	.0009	76.74	.1039	.0362	-.0068	.0010
#2	105.9	39.51	90.93	1.886	-.0004	76.13	.1047	.0341	.0024	-.0050
#3	106.6	39.23	91.99	1.884	.0004	76.58	.1053	.0367	-.0015	-.0084

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	8.114	.0257	19.40	2.413	.0013	.2438	.2937
Stddev	.015	.0038	.03	.008	.0056	.0025	.0011
%RSD	.1897	14.85	.1441	.3276	434.9	1.010	.3817
#1	8.124	.0299	19.40	2.404	.0040	.2448	.2924
#2	8.097	.0249	19.38	2.420	-.0052	.2456	.2944
#3	8.122	.0224	19.43	2.414	.0051	.2410	.2943

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	2604.0	7120.4	40073.	3517.4
Stddev	3.4	6.2	69.	18.5
%RSD	.13237	.08668	.17278	.52714
#1	2607.7	7125.1	40144.	3511.6
#2	2603.2	7113.4	40070.	3538.1
#3	2600.9	7122.7	40006.	3502.3

Zoom In
Zoom Out

Sample Name: FA23189-24 Acquired: 4/2/2015 12:05:48 Type: Unk
Method: 60102007_041712(v212) Mode: CONC Corr. Factor: 10.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	.0006	255.3	.0605	2.006	.0119	3283.	.0030	.0907	.2443	.2247
Stddev	.0056	1.6	.0103	.003	.0002	30.	.0003	.0009	.0035	.0004
%RSD	978.3	.6125	16.94	.1250	2.016	.9219	9.284	.9472	1.444	.1741
#1	-.0057	254.1	.0518	2.003	.0121	3253.	.0030	.0916	.2410	.2247
#2	.0021	254.7	.0580	2.006	.0116	3282.	.0032	.0900	.2480	.2243
#3	.0053	257.0	.0718	2.008	.0120	3314.	.0027	.0904	.2437	.2250

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	229.3	80.44	197.1	5.068	.0009	76.03	.2146	.1224	-.0018	.0083
Stddev	1.5	.44	1.5	.019	.0012	.33	.0013	.0067	.0109	.0086
%RSD	.6551	.5510	.7752	.3688	129.2	.4298	.6275	5.436	619.2	103.1
#1	228.2	80.01	196.5	5.051	-.0004	75.88	.2151	.1259	.0101	.0154
#2	228.6	80.43	196.0	5.067	.0014	75.80	.2157	.1265	-.0041	-.0012
#3	231.0	80.90	198.9	5.088	.0018	76.40	.2131	.1147	-.0113	.0108

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	9.520	.0283	10.67	3.659	.0041	.3889	.6968
Stddev	.033	.0013	.03	.009	.0086	.0003	.0004
%RSD	.3514	4.567	.3243	.2452	208.8	.0822	.0544
#1	9.558	.0286	10.65	3.653	.0073	.3889	.6964
#2	9.503	.0294	10.65	3.654	.0107	.3891	.6969
#3	9.498	.0269	10.71	3.669	-.0056	.3885	.6971

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	2630.6	7342.8	41297.	3645.7
Stddev	1.0	7.1	147.	24.8
%RSD	.03888	.09648	.35510	.67919
#1	2630.2	7343.7	41458.	3673.3
#2	2629.8	7335.4	41263.	3638.4
#3	2631.7	7349.5	41170.	3625.4

Zoom In
Zoom Out

Sample Name: FA23189-25 Acquired: 4/2/2015 12:10:02 Type: Unk
Method: 60102007_041712(v212) Mode: CONC Corr. Factor: 4.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	.0009	260.6	.0577	1.807	.0110	1435.	.0041	.0850	.2408	.2235
Stddev	.0013	.4	.0021	.007	.0002	7.	.0001	.0003	.0016	.0003
%RSD	144.8	.1384	3.675	.3823	1.889	.4786	2.785	.3063	.6451	.1553
#1	-.0001	260.8	.0601	1.806	.0109	1434.	.0041	.0848	.2393	.2231
#2	.0024	260.7	.0562	1.815	.0112	1429.	.0042	.0849	.2405	.2238
#3	.0005	260.2	.0569	1.801	.0109	1442.	.0040	.0853	.2424	.2234

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	226.0	78.98	226.8	5.634	.0061	52.50	.2052	.1803	-.0043	.0006
Stddev	.4	.19	.4	.013	.0000	.16	.0005	.0019	.0028	.0034
%RSD	.1699	.2402	.1767	.2287	.4185	.3111	.2347	1.065	64.41	596.2
#1	226.1	79.16	226.9	5.621	.0062	52.49	.2047	.1781	-.0062	-.0028
#2	226.3	78.99	227.2	5.635	.0061	52.66	.2052	.1814	-.0011	.0004
#3	225.6	78.78	226.4	5.647	.0061	52.34	.2057	.1814	-.0057	.0041

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	11.26	.0267	4.847	4.021	.0002	.3631	.7113
Stddev	.01	.0010	.010	.010	.0019	.0008	.0028
%RSD	.0605	3.879	.2033	.2495	797.7	.2082	.3950
#1	11.25	.0278	4.852	4.010	.0010	.3629	.7097
#2	11.26	.0260	4.854	4.022	.0016	.3639	.7096
#3	11.27	.0261	4.836	4.030	-.0019	.3624	.7145

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	2553.1	7913.7	43632.	3901.9
Stddev	12.5	27.0	18.	12.7
%RSD	.48869	.34130	.04187	.32619
#1	2558.0	7924.6	43650.	3908.1
#2	2562.4	7933.5	43632.	3887.2
#3	2538.9	7882.9	43614.	3910.2

Zoom In
Zoom Out

Sample Name: FA23189-27 Acquired: 4/2/2015 12:14:14 Type: Unk
Method: 60102007_041712(v212) Mode: CONC Corr. Factor: 5.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)
Avg	-.0011	255.1	.0719	2.198	.0107	F3651.	.0014	.0786	.2332
Stddev	.0007	.3	.0055	.009	.0005	22.	.0000	.0005	.0005
%RSD	66.91	.1311	7.624	.4057	4.812	.6077	1.329	.6616	.2271
#1	-.0004	255.4	.0656	2.200	.0102	3625.	.0014	.0781	.2335
#2	-.0011	254.7	.0748	2.188	.0113	3666.	.0014	.0786	.2326
#3	-.0018	255.1	.0754	2.205	.0107	3661.	.0013	.0791	.2335

Elem	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
IS Ref	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)
Avg	.2140	211.4	89.15	149.8	3.569	.0167	98.69	.2027	.1068
Stddev	.0010	.4	.29	.3	.019	.0002	.09	.0008	.0025
%RSD	.4748	.2022	.3235	.2213	.5234	1.188	.0936	.3847	2.338
#1	.2129	211.7	89.06	149.5	3.560	.0165	98.73	.2018	.1096
#2	.2145	210.9	88.91	149.7	3.557	.0168	98.59	.2029	.1046
#3	.2147	211.7	89.47	150.1	3.591	.0169	98.77	.2033	.1064

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	-.0008	.0084	10.37	.0265	13.57	4.007	-.0076	.4246	.6139
Stddev	.0082	.0085	.03	.0010	.02	.013	.0010	.0027	.0016
%RSD	1008.	101.2	.2545	3.865	.1554	.3227	12.82	.6435	.2530
#1	-.0054	.0137	10.36	.0254	13.59	3.997	-.0066	.4233	.6122
#2	-.0057	.0129	10.35	.0275	13.55	4.001	-.0086	.4228	.6150
#3	.0087	-.0014	10.40	.0267	13.58	4.021	-.0075	.4278	.6147

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	2431.5	7241.2	40771.	3683.0
Stddev	1.4	11.8	234.	14.7
%RSD	.05958	.16312	.57274	.39967
#1	2433.2	7254.7	40806.	3681.9
#2	2430.5	7235.6	40985.	3698.2
#3	2430.8	7233.2	40522.	3668.8

Zoom In Zoom Out

Sample Name: FA23189-29 Acquired: 4/2/2015 12:18:27 Type: Unk
Method: 60102007_041712(v212) Mode: CONC Corr. Factor: 10.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	-.0008	64.04	.0268	.8340	.0029	3901.	-.0011	.0226	.0573	.0551
Stddev	.0009	.28	.0036	.0053	.0016	4.	.0005	.0007	.0021	.0027
%RSD	111.8	.4310	13.50	.6324	54.75	.1153	48.41	3.161	3.674	4.884
#1	-.0018	64.23	.0306	.8355	.0013	3904.	-.0008	.0226	.0593	.0547
#2	-.0008	64.17	.0265	.8384	.0044	3896.	-.0008	.0233	.0573	.0579
#3	.0001	63.73	.0234	.8282	.0029	3903.	-.0017	.0218	.0551	.0525

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	52.40	24.67	65.04	.8940	.0021	45.02	.0491	-.0006	-.0014	-.0095
Stddev	.10	.09	.67	.0015	.0014	.13	.0008	.0052	.0077	.0073
%RSD	.1961	.3451	1.033	.1733	66.39	.2866	1.660	930.6	567.6	76.56
#1	52.42	24.61	65.53	.8957	.0007	45.13	.0481	.0049	.0076	-.0024
#2	52.49	24.63	65.32	.8928	.0021	45.05	.0497	-.0055	-.0052	-.0170
#3	52.29	24.77	64.27	.8935	.0035	44.88	.0493	-.0010	-.0064	-.0091

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	9.740	.0211	35.22	1.467	-.0032	.1351	.1473
Stddev	.042	.0009	.09	.004	.0020	.0018	.0003
%RSD	.4265	4.334	.2607	.2669	61.57	1.307	.2247
#1	9.772	.0203	35.27	1.469	-.0034	.1370	.1477
#2	9.756	.0209	35.27	1.470	-.0011	.1346	.1472
#3	9.693	.0221	35.11	1.462	-.0051	.1336	.1471

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	2651.7	7164.1	40508.	3556.0
Stddev	6.0	11.9	191.	19.9
%RSD	.22789	.16611	.47189	.55844
#1	2645.2	7150.8	40296.	3546.4
#2	2657.1	7167.5	40564.	3542.7
#3	2652.7	7173.9	40666.	3578.8

Zoom In Zoom Out

Sample Name: FA23189-31 Acquired: 4/2/2015 12:22:41 Type: Unk
Method: 60102007_041712(v212) Mode: CONC Corr. Factor: 10.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)
Avg	-.0049	49.07	.0226	.5776	.0022	F5111.	-.0024	.0199	.0426
Stddev	.0010	.22	.0036	.0019	.0007	31.	.0003	.0002	.0018
%RSD	19.71	.4473	15.98	.3297	30.68	.6059	12.20	1.155	4.142
#1	-.0046	49.22	.0184	.5796	.0015	5098.	-.0022	.0198	.0421
#2	-.0060	49.18	.0249	.5759	.0024	5146.	-.0028	.0197	.0446
#3	-.0041	48.82	.0243	.5773	.0028	5088.	-.0024	.0201	.0412

Elem	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
IS Ref	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)
Avg	.0471	39.99	19.95	51.96	.7080	-.0015	107.9	.0406	-.0111
Stddev	.0006	.11	.11	.56	.0009	.0007	.5	.0015	.0072
%RSD	1.362	.2773	.5347	1.074	.1273	42.87	.4894	3.797	64.98
#1	.0478	40.05	20.04	52.50	.7084	-.0020	108.5	.0399	-.0033
#2	.0468	40.06	19.83	52.00	.7086	-.0008	107.9	.0424	-.0124
#3	.0467	39.86	19.97	51.39	.7070	-.0018	107.4	.0395	-.0176

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	-.0001	-.0044	7.677	.0197	F41.02	1.149	.0049	.1156	.1102
Stddev	.0065	.0059	.012	.0019	.12	.003	.0102	.0022	.0008
%RSD	8127.	134.2	.1585	9.813	.3031	.2604	208.5	1.921	.7710
#1	.0075	-.0033	7.689	.0176	41.16	1.148	.0005	.1161	.1104
#2	-.0044	-.0108	7.677	.0201	40.97	1.152	.0165	.1175	.1093
#3	-.0033	.0009	7.665	.0214	40.92	1.146	-.0024	.1132	.1110

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	2578.1	7069.2	40139.	3575.9
Stddev	7.4	14.8	214.	20.0
%RSD	.28730	.20938	.53427	.56048
#1	2585.1	7084.8	39933.	3599.0
#2	2570.3	7055.4	40122.	3564.2
#3	2578.8	7067.3	40361.	3564.3

Zoom In Zoom Out

Sample Name: FA23189-33 Acquired: 4/2/2015 12:26:57 Type: Unk
Method: 60102007_041712(v212) Mode: CONC Corr. Factor: 10.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	-.0056	102.0	.0295	1.005	.0037	3687.	-.0005	.0351	.0934	.0850
Stddev	.0005	.1	.0038	.005	.0001	55.	.0001	.0006	.0005	.0007
%RSD	9.562	.0901	12.83	.5146	2.649	1.485	27.48	1.710	.5554	.8760
#1	-.0056	101.9	.0321	1.009	.0037	3624.	-.0005	.0354	.0937	.0855
#2	-.0061	102.1	.0313	1.008	.0037	3718.	-.0004	.0355	.0928	.0855
#3	-.0051	102.0	.0252	.9995	.0036	3719.	-.0007	.0344	.0936	.0842

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	87.15	35.24	80.23	1.731	.0049	78.74	.0806	.0370	.0073	.0010
Stddev	.25	.26	.23	.005	.0003	.16	.0010	.0033	.0026	.0120
%RSD	.2893	.7243	.2846	.2659	6.882	.2042	1.208	8.954	35.53	1151.
#1	87.39	35.30	80.18	1.726	.0045	78.81	.0807	.0397	.0043	.0149
#2	87.18	35.46	80.49	1.735	.0051	78.86	.0816	.0380	.0092	-.0058
#3	86.89	34.96	80.04	1.732	.0051	78.56	.0796	.0333	.0084	-.0060

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	7.541	.0200	15.56	2.033	.0031	.1853	.2491
Stddev	.040	.0017	.03	.004	.0024	.0017	.0013
%RSD	.5270	8.258	.2136	.1802	76.71	.9238	.5350
#1	7.583	.0185	15.59	2.029	.0058	.1872	.2501
#2	7.536	.0218	15.56	2.036	.0014	.1841	.2476
#3	7.504	.0197	15.52	2.035	.0021	.1845	.2497

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	2648.4	7212.4	41044.	3599.8
Stddev	4.7	3.6	160.	14.0
%RSD	.17807	.05058	.38933	.38951
#1	2643.5	7208.2	41073.	3614.5
#2	2648.9	7214.0	40872.	3586.5
#3	2652.9	7215.0	41187.	3598.6

Zoom In Zoom Out

Sample Name: CCV Acquired: 4/2/2015 12:31:12 Type: QC
Method: 60102007_041712(v212) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2384	39.59	1.973	1.997	1.941	39.02	2.002	2.008	1.971	1.954
Stddev	.0003	.06	.002	.002	.002	.01	.002	.002	.005	.004
%RSD	.1059	.1504	.1011	.0966	.1039	.0192	.0971	.1184	.2400	.1774
#1	.2382	39.56	1.973	1.999	1.940	39.02	2.000	2.007	1.976	1.950
#2	.2383	39.56	1.976	1.997	1.943	39.01	2.004	2.011	1.966	1.955
#3	.2387	39.66	1.972	1.995	1.939	39.02	2.002	2.006	1.971	1.957
Check ?	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass
Value										
Range										

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	38.96	40.84	37.92	1.948	1.994	41.42	1.989	1.952	1.982	1.987
Stddev	.02	.12	.19	.012	.009	.05	.002	.002	.002	.003
%RSD	.0431	.3053	.4956	.6096	.4326	.1205	.0758	.0783	.0798	.1428
#1	38.95	40.71	38.13	1.956	1.984	41.36	1.990	1.950	1.981	1.983
#2	38.98	40.95	37.86	1.934	1.998	41.46	1.989	1.953	1.984	1.989
#3	38.97	40.86	37.77	1.954	2.000	41.43	1.987	1.952	1.982	1.987
Check ?	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass
Value										
Range										

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.046	1.949	1.995	1.996	1.985	1.924	1.975
Stddev	.003	.002	.004	.002	.001	.002	.004
%RSD	.1224	.1063	.1810	.0777	.0478	.1164	.1761
#1	2.043	1.950	1.991	1.998	1.984	1.924	1.975
#2	2.048	1.949	1.997	1.995	1.986	1.922	1.979
#3	2.047	1.946	1.996	1.995	1.985	1.926	1.972
Check ?	None	Chk	Pass	Chk	Pass	Chk	Pass
Value							
Range							

Zoom In
Zoom Out

Sample Name: CCV Acquired: 4/2/2015 12:31:12 Type: QC
Method: 60102007_041712(v212) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2716.9	7450.4	42716.	3676.4
Stddev	1.0	9.3	184.	11.3
%RSD	.03566	.12456	.42973	.30713
#1	2717.4	7444.3	42517.	3672.4
#2	2715.8	7445.8	42879.	3689.1
#3	2717.6	7461.1	42752.	3667.6

Zoom In
Zoom Out

Sample Name: CCB Acquired: 4/2/2015 12:35:17 Type: QC
Method: 60102007_041712(v212) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000	.0067	-.0006	.0000	.0001	.0033	.0001	.0000	.0002
Stddev	.0003	.0052	.0003	.0001	.0001	.0014	.0001	.0001	.0002
%RSD	3235.	78.09	58.93	331.8	43.56	43.46	99.29	344.2	138.3
#1	.0003	.0093	-.0009	.0001	.0002	.0018	.0001	.0002	-.0001
#2	-.0003	.0102	-.0002	-.0001	.0001	.0036	.0000	-.0001	.0003
#3	.0000	.0007	-.0006	.0001	.0001	.0046	.0000	.0000	.0002
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000	.0196	.0521	.0235	.0000	F.0025	-.0610	.0002	-.0002
Stddev	.0002	.0084	.0063	.0068	.0001	.0006	.0090	.0001	.0004
%RSD	635.8	42.93	12.07	29.08	161.7	25.40	14.67	68.03	200.7
#1	.0002	.0258	.0537	.0276	.0001	.0032	-.0694	.0003	-.0004
#2	-.0001	.0229	.0451	.0156	.0000	.0024	-.0620	.0001	-.0005
#3	.0000	.0100	.0573	.0272	.0000	.0019	-.0516	.0001	.0003
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit						.0010			
Low Limit						-.0010			

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0008	.0009	-.0007	.0001	.0001	.0008	.0009	.0000	-.0001
Stddev	.0003	.0009	.0003	.0000	.0001	.0001	.0002	.000	.0000
%RSD	39.46	96.28	38.73	22.95	52.52	8.039	18.44	711.2	10.85
#1	.0005	.0017	-.0008	.0002	.0001	.0008	.0011	.0000	-.0001
#2	.0011	.0000	-.0004	.0001	.0001	.0007	.0007	-.0003	-.0001
#3	.0008	.0011	-.0010	.0001	.0002	.0008	.0010	.0002	.0000
Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Zoom In
Zoom Out

Sample Name: CCB Acquired: 4/2/2015 12:35:17 Type: QC
Method: 60102007_041712(v212) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3228.1	7760.6	44324.	3658.6
Stddev	9.3	10.1	134.	12.7
%RSD	.28767	.13054	.30138	.34765
#1	3225.1	7755.0	44184.	3666.5
#2	3220.7	7754.5	44450.	3665.4
#3	3238.5	7772.3	44338.	3644.0

Zoom In
Zoom Out

Sample Name: FA23189-35 Acquired: 4/2/2015 12:39:30 Type: Unk
Method: 60102007_041712(v212) Mode: CONC Corr. Factor: 10.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)
Avg	.0014	83.03	.0377	1.277	.0033	3472.	-.0008	.0280	.0736
Stddev	.0005	.25	.0073	.004	.0009	16.	.0003	.0004	.0025
%RSD	36.61	.3044	19.38	.2848	27.75	.4678	35.13	1.319	3.349
#1	.0017	83.33	.0362	1.278	.0044	3455.	-.0010	.0284	.0752
#2	.0017	82.87	.0456	1.273	.0026	3488.	-.0010	.0280	.0748
#3	.0008	82.91	.0312	1.280	.0030	3473.	-.0005	.0277	.0708

Elem	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
IS Ref	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)
Avg	.0840	63.30	25.87	132.5	.9864	.0061	41.61	.0625	.0033
Stddev	.0031	.11	.13	.7	.0012	.0009	.12	.0023	.0025
%RSD	3.639	.1748	.4889	.5054	.1173	15.46	.2826	3.743	74.90
#1	.0869	63.40	26.01	131.9	.9870	.0072	41.75	.0603	.0061
#2	.0842	63.18	25.77	133.2	.9851	.0055	41.53	.0649	.0014
#3	.0808	63.31	25.84	132.4	.9872	.0056	41.56	.0623	.0025

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	-.0014	-.0193	10.25	.0217	F41.67	1.832	-.0069	.3170	.1736
Stddev	.0108	.0084	.01	.0055	.08	.001	.0109	.0025	.0012
%RSD	754.1	43.64	.1457	25.25	.1879	.0602	158.6	.7976	.6895
#1	-.0096	-.0223	10.26	.0260	41.74	1.831	-.0032	.3145	.1747
#2	-.0055	-.0098	10.23	.0155	41.59	1.833	-.0192	.3196	.1738
#3	.0108	-.0257	10.26	.0235	41.70	1.831	.0017	.3169	.1723

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	2667.4	7206.9	41152.	3646.3
Stddev	21.8	62.5	50.	27.6
%RSD	.81720	.86764	.12122	.75565
#1	2686.0	7255.9	41208.	3671.9
#2	2672.8	7228.3	41113.	3617.2
#3	2643.4	7136.5	41135.	3649.8

Zoom In Zoom Out

Sample Name: FA23189-37 Acquired: 4/2/2015 12:43:45 Type: Unk
Method: 60102007_041712(v212) Mode: CONC Corr. Factor: 10.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	-.0037	63.43	.0211	.6226	.0022	3508.	-.0019	.0257	.0582	.0486
Stddev	.0042	.11	.0030	.0015	.0001	64.	.0005	.0001	.0021	.0026
%RSD	114.2	.1790	14.20	.2449	3.509	1.821	24.34	.2588	3.591	5.318
#1	-.0023	63.39	.0179	.6237	.0021	3553.	-.0024	.0257	.0561	.0456
#2	-.0084	63.33	.0214	.6209	.0022	3435.	-.0018	.0258	.0583	.0504
#3	-.0004	63.55	.0239	.6233	.0021	3537.	-.0015	.0257	.0602	.0497

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	51.36	21.30	91.97	.8543	.0025	64.06	.0528	-.0036	-.0012	-.0017
Stddev	.27	.29	.53	.0026	.0006	.09	.0013	.0033	.0100	.0148
%RSD	.5218	1.352	.5779	.3080	24.65	.1328	2.393	91.67	852.9	876.0
#1	51.52	21.42	92.53	.8523	.0031	64.09	.0526	.0002	.0026	-.0144
#2	51.06	20.97	91.47	.8573	.0019	63.97	.0516	-.0057	-.0126	.0145
#3	51.52	21.51	91.92	.8534	.0024	64.13	.0541	-.0053	.0064	-.0051

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	9.532	.0189	21.94	1.532	.0022	.1596	.1411
Stddev	.029	.0010	.04	.001	.0064	.0015	.0004
%RSD	.3091	5.037	.1632	.0675	291.9	.9333	.2857
#1	9.522	.0200	21.95	1.533	-.0021	.1587	.1413
#2	9.565	.0183	21.90	1.532	-.0008	.1613	.1406
#3	9.508	.0183	21.97	1.531	.0095	.1588	.1413

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	2679.0	7225.3	41258.	3599.2
Stddev	1.0	8.0	161.	31.2
%RSD	.03858	.11068	.38987	.86634
#1	2678.5	7216.1	41400.	3568.5
#2	2680.2	7230.4	41083.	3630.8
#3	2678.4	7229.5	41290.	3598.2

Zoom In Zoom Out

Sample Name: FA23026-1F Acquired: 4/2/2015 12:48:01 Type: Unk
Method: 60102007_041712(v212) Mode: CONC Corr. Factor: 4.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	-.0005	.0246	.0061	.0647	-.0001	38.44	.0003	-.0002	.0013	.0009
Stddev	.0010	.0434	.0018	.0006	.0003	.09	.0001	.0005	.0013	.0008
%RSD	181.7	176.3	30.44	.9747	277.8	.2350	33.62	202.1	107.0	86.89
#1	-.0002	-.0157	.0040	.0653	-.0005	38.43	.0002	-.0005	.0009	.0007
#2	.0002	.0190	.0075	.0649	-.0001	38.54	.0003	.0003	.0001	.0002
#3	-.0016	.0706	.0067	.0641	.0002	38.36	.0003	-.0006	.0028	.0017

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	.7926	20.74	14.00	.0539	.0123	210.9	.0002	-.0016	.0011	.0016
Stddev	.0045	.06	.02	.0003	.0001	.3	.0008	.0014	.0031	.0042
%RSD	.5726	.3098	.1463	.5633	.5055	.1603	327.7	92.34	284.6	252.4
#1	.7878	20.72	13.98	.0536	.0123	210.9	.0011	-.0003	.0033	.0055
#2	.7968	20.69	14.00	.0542	.0123	211.2	-.0005	-.0012	.0025	-.0028
#3	.7933	20.81	14.02	.0540	.0122	210.5	.0002	-.0031	-.0025	.0023

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	13.48	-.0003	.4261	.0026	.0011	.0010	.2087
Stddev	.02	.0001	.0012	.0001	.0003	.0007	.0006
%RSD	.1273	42.71	.2750	3.386	29.39	71.06	.2732
#1	13.49	-.0004	.4272	.0026	.0010	.0004	.2081
#2	13.49	-.0004	.4264	.0026	.0015	.0008	.2087
#3	13.46	-.0002	.4249	.0027	.0008	.0018	.2092

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	2927.7	7587.6	43386.	3635.0
Stddev	10.4	14.1	161.	7.8
%RSD	.35662	.18575	.37000	.21526
#1	2939.4	7602.4	43541.	3634.9
#2	2924.6	7586.0	43221.	3642.9
#3	2919.2	7574.3	43396.	3627.2

Zoom In Zoom Out

Sample Name: MP28735-D1 Acquired: 4/2/2015 12:52:09 Type: Unk
Method: 60102007_041712(v212) Mode: CONC Corr. Factor: 4.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	-.0008	.0660	.0058	.0660	-.0003	39.37	.0001	-.0001	.0021	.0010
Stddev	.0019	.0242	.0011	.0009	.0001	.09	.0001	.0004	.0007	.0005
%RSD	225.3	36.66	18.51	1.414	30.30	.2276	96.57	462.7	33.87	54.53
#1	.0012	.0497	.0056	.0658	-.0002	39.30	.0002	.0003	.0026	.0004
#2	-.0012	.0938	.0069	.0651	-.0003	39.35	.0000	-.0002	.0013	.0012
#3	-.0025	.0545	.0048	.0670	-.0004	39.47	.0001	-.0004	.0024	.0013

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	.8000	21.06	13.86	.0550	.0120	214.4	.0003	-.0020	.0004	.0035
Stddev	.0309	.03	.08	.0002	.0004	.2	.0004	.0032	.0011	.0051
%RSD	3.864	.1508	.5446	.3340	3.076	.1087	137.5	155.2	244.7	146.0
#1	.8210	21.08	13.83	.0548	.0121	214.2	.0003	-.0004	-.0008	.0088
#2	.8146	21.03	13.80	.0552	.0116	214.3	.0007	.0000	.0012	.0031
#3	.7645	21.08	13.95	.0549	.0123	214.7	-.0001	-.0057	.0009	-.0014

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	13.73	-.0005	.4334	.0036	.0006	.0019	.2162
Stddev	.03	.0010	.0006	.0010	.0012	.0005	.0001
%RSD	.1926	215.5	.1324	27.77	216.7	24.02	.0542
#1	13.73	-.0003	.4327	.0034	.0011	.0023	.2162
#2	13.71	.0005	.4337	.0028	.0014	.0014	.2161
#3	13.76	-.0015	.4336	.0047	-.0008	.0021	.2163

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	2920.3	7591.0	43554.	3679.5
Stddev	1.9	5.1	98.	21.3
%RSD	.06548	.06757	.22473	.57976
#1	2918.3	7589.7	43460.	3697.1
#2	2920.5	7586.6	43547.	3685.6
#3	2922.1	7596.6	43655.	3655.8

Zoom In Zoom Out

Sample Name: MP28735-S1 Acquired: 4/2/2015 12:56:18 Type: Unk
Method: 60102007_041712(v212) Mode: CONC Corr. Factor: 4.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	.0469	27.62	2.044	2.091	.0505	63.79	.0525	.5294	.2105	.2513
Stddev	.0018	.11	.003	.007	.0002	.13	.0002	.0014	.0008	.0019
%RSD	3.759	.3843	.1229	.3322	.4479	.2001	.3279	.2615	.3848	.7577
#1	.0449	27.69	2.043	2.087	.0503	63.90	.0523	.5304	.2096	.2499
#2	.0477	27.50	2.046	2.086	.0504	63.65	.0526	.5300	.2112	.2506
#3	.0481	27.67	2.041	2.099	.0508	63.80	.0526	.5278	.2106	.2535

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	26.86	46.76	37.74	.5605	.5451	237.3	.5271	.4949	.5114	2.051
Stddev	.06	.09	.34	.0001	.0016	.5	.0007	.0013	.0014	.008
%RSD	.2089	.1916	.9142	.0189	.3006	.2177	.1311	.2724	.2725	.3985
#1	26.88	46.68	38.07	.5604	.5432	237.6	.5264	.4939	.5115	2.048
#2	26.79	46.86	37.39	.5605	.5460	236.7	.5271	.4944	.5100	2.060
#3	26.90	46.73	37.76	.5606	.5460	237.7	.5278	.4965	.5128	2.045

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	13.55	.5458	.9637	.5379	2.054	.4799	.7304
Stddev	.01	.0027	.0023	.0009	.002	.0004	.0009
%RSD	.1035	.4924	.2406	.1601	.0758	.0889	.1215
#1	13.56	.5464	.9621	.5369	2.055	.4798	.7294
#2	13.55	.5429	.9627	.5381	2.054	.4796	.7308
#3	13.53	.5482	.9664	.5386	2.052	.4804	.7310

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	2843.4	7570.5	43442.	3670.8
Stddev	4.0	4.5	74.	26.6
%RSD	.13991	.05970	.17148	.72368
#1	2840.5	7568.8	43512.	3641.6
#2	2841.7	7567.0	43364.	3693.6
#3	2847.9	7575.6	43450.	3677.1

Zoom In Zoom Out

Sample Name: MP28735-S2 Acquired: 4/2/2015 13:00:17 Type: Unk
Method: 60102007_041712(v212) Mode: CONC Corr. Factor: 4.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	.0486	28.35	2.102	2.158	.0518	65.71	.0536	.5423	.2156	.2592
Stddev	.0012	.11	.005	.007	.0004	.31	.0001	.0011	.0011	.0022
%RSD	2.464	.4020	.2411	.3115	.8298	.4734	.0966	.1982	.5173	.8517
#1	.0472	28.24	2.097	2.158	.0518	65.38	.0536	.5424	.2144	.2568
#2	.0493	28.35	2.102	2.151	.0522	65.75	.0536	.5412	.2166	.2611
#3	.0492	28.47	2.107	2.165	.0513	66.00	.0535	.5433	.2157	.2597

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	27.68	48.51	39.17	.5773	.5583	244.6	.5407	.5066	.5244	2.102
Stddev	.06	.19	.18	.0012	.0018	.7	.0007	.0026	.0018	.004
%RSD	.2231	.3845	.4668	.2076	.3142	.2946	.1337	.5110	.3483	.2040
#1	27.67	48.32	39.18	.5765	.5569	244.1	.5410	.5065	.5230	2.099
#2	27.62	48.54	38.98	.5787	.5579	244.3	.5399	.5041	.5239	2.107
#3	27.74	48.69	39.35	.5768	.5603	245.4	.5412	.5093	.5265	2.100

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	14.02	.5625	.9906	.5529	2.098	.4945	.7501
Stddev	.02	.0023	.0037	.0020	.007	.0008	.0022
%RSD	.1081	.4052	.3762	.3617	.3456	.1529	.2895
#1	14.02	.5621	.9896	.5513	2.096	.4937	.7497
#2	14.01	.5605	.9875	.5551	2.093	.4952	.7482
#3	14.04	.5650	.9947	.5523	2.107	.4945	.7525

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	2844.3	7550.9	43171.	3660.0
Stddev	3.5	16.0	91.	24.6
%RSD	.12362	.21187	.20972	.67102
#1	2842.4	7549.8	43215.	3688.1
#2	2848.3	7567.5	43232.	3648.9
#3	2842.1	7535.6	43067.	3642.9

Zoom In Zoom Out

Sample Name: MP28735-PS1 Acquired: 4/2/2015 13:04:17 Type: Unk
Method: 60102007_041712(v212) Mode: CONC Corr. Factor: 4.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	.0477	2.742	.1176	.3296	.0531	43.58	.0555	.0555	.0567	.1073
Stddev	.0007	.046	.0047	.0011	.0002	.05	.0001	.0003	.0007	.0003
%RSD	1.520	1.671	3.988	.3334	.3898	.1178	.2061	.5900	1.157	.2380
#1	.0483	2.712	.1217	.3309	.0532	43.56	.0554	.0556	.0560	.1071
#2	.0477	2.718	.1187	.3288	.0533	43.54	.0556	.0557	.0573	.1076
#3	.0469	2.794	.1125	.3293	.0529	43.63	.0556	.0551	.0566	.1074

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	3.874	31.62	18.51	.1073	.1195	221.2	.1120	.0485	.1067	.1076
Stddev	.010	.21	.15	.0001	.0008	.4	.0004	.0008	.0024	.0052
%RSD	.2521	.6626	.8000	.1055	.6597	.1588	.3134	1.613	2.259	4.815
#1	3.877	31.84	18.65	.1072	.1186	221.3	.1121	.0477	.1073	.1082
#2	3.863	31.42	18.36	.1074	.1197	220.8	.1116	.0492	.1041	.1125
#3	3.882	31.59	18.53	.1073	.1202	221.4	.1122	.0488	.1088	.1022

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	13.44	.0530	.4783	.1077	.1098	.0529	.4852
Stddev	.04	.0001	.0009	.0010	.0004	.0003	.0009
%RSD	.2774	.1796	.1899	.8859	.3806	.6402	.1925
#1	13.40	.0531	.4793	.1067	.1099	.0532	.4851
#2	13.44	.0531	.4775	.1078	.1101	.0530	.4843
#3	13.47	.0529	.4780	.1086	.1093	.0526	.4862

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	2913.5	7561.3	43195.	3620.8
Stddev	1.8	10.2	166.	13.6
%RSD	.06263	.13503	.38357	.37485
#1	2912.0	7565.9	43302.	3636.4
#2	2915.5	7568.3	43004.	3612.1
#3	2913.0	7549.5	43279.	3613.9

Zoom In Zoom Out

Sample Name: MP28735-SD1 Acquired: 4/2/2015 13:08:24 Type: Unk
Method: 60102007_041712(v212) Mode: CONC Corr. Factor: 20.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	.0005	.0342	-.0058	.0806	-.0021	41.55	.0004	.0006	.0034	-.0014
Stddev	.0010	.0941	.0024	.0016	.0027	.23	.0008	.0010	.0009	.0036
%RSD	179.4	274.7	41.23	1.989	131.7	.5437	213.5	177.5	26.09	249.1
#1	.0010	-.0685	-.0062	.0801	-.0012	41.37	-.0005	.0001	.0024	-.0022
#2	-.0006	.0552	-.0032	.0792	-.0052	41.81	.0005	.0018	.0040	.0025
#3	.0012	.1160	-.0079	.0823	.0001	41.49	.0010	-.0001	.0038	-.0045

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	.7906	22.54	15.09	.0558	.0109	219.2	-.0031	-.0058	-.0059	.0131
Stddev	.0592	.40	.06	.0005	.0010	1.0	.0009	.0102	.0163	.0216
%RSD	7.487	1.771	.4135	.9648	8.954	.4458	30.04	174.1	276.8	165.4
#1	.7412	22.08	15.04	.0558	.0120	218.2	-.0020	-.0064	-.0234	.0173
#2	.7744	22.78	15.16	.0563	.0100	220.1	-.0038	.0046	-.0031	.0322
#3	.8562	22.76	15.06	.0552	.0107	219.1	-.0033	-.0157	.0089	-.0103

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	13.85	-.0023	.4392	.0059	.0030	.0031	.2291
Stddev	.02	.0016	.0008	.0058	.0107	.0026	.0006
%RSD	.1190	68.29	.1711	97.85	351.4	83.13	.2561
#1	13.86	-.0013	.4400	.0047	.0144	.0005	.2289
#2	13.87	-.0015	.4390	.0008	.0014	.0057	.2287
#3	13.84	-.0042	.4386	.0123	-.0067	.0031	.2298

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	3120.6	7767.2	44661.	3637.6
Stddev	7.4	8.9	198.	44.1
%RSD	.23677	.11506	.44318	1.2120
#1	3126.8	7770.4	44632.	3688.5
#2	3122.5	7774.1	44479.	3613.5
#3	3112.4	7757.1	44872.	3610.8

Zoom In Zoom Out

Sample Name: FA23139-1 Acquired: 4/2/2015 13:12:36 Type: Unk
Method: 60102007_041712(v212) Mode: CONC Corr. Factor: 2.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	-.0007	3.756	.0003	.1816	.0001	593.5	-.0003	.0016	.1506	.0078
Stddev	.0007	.008	.0004	.0001	.0002	6.4	.0001	.0003	.0007	.0003
%RSD	114.7	.2240	138.8	.0799	186.2	1.081	24.88	20.27	.4639	3.246
#1	.0001	3.748	.0002	.1814	.0000	599.7	-.0003	.0012	.1508	.0077
#2	-.0014	3.765	.0008	.1817	.0003	593.9	-.0002	.0016	.1499	.0080
#3	-.0006	3.756	-.0001	.1817	.0000	586.9	-.0002	.0019	.1512	.0075

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	4.527	86.77	4.847	.1056	.0329	45.92	.0412	-.0049	.0017	.0048
Stddev	.002	.14	.038	.0005	.0003	.13	.0005	.0007	.0016	.0013
%RSD	.0320	.1610	.7774	.4482	.8760	.2877	1.165	15.24	91.14	26.87
#1	4.526	86.69	4.805	.1051	.0326	45.85	.0407	-.0041	.0035	.0054
#2	4.527	86.70	4.861	.1057	.0329	45.84	.0414	-.0053	.0010	.0057
#3	4.528	86.93	4.877	.1060	.0332	46.07	.0416	-.0054	.0007	.0033

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	15.84	-.0002	1.065	.2259	-.0020	.0091	.1489
Stddev	.06	.0007	.002	.0008	.0010	.0004	.0006
%RSD	.3919	329.7	.2223	.3662	48.58	3.897	.3895
#1	15.78	-.0004	1.063	.2250	-.0017	.0094	.1483
#2	15.84	.0006	1.064	.2260	-.0031	.0087	.1490
#3	15.90	-.0008	1.068	.2267	-.0012	.0092	.1495

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	2641.1	7071.9	41235.	3616.6
Stddev	3.2	11.7	97.	4.1
%RSD	.12072	.16601	.23628	.11382
#1	2644.7	7081.6	41324.	3612.6
#2	2639.6	7075.2	41248.	3620.8
#3	2638.8	7058.9	41131.	3616.5

Zoom In Zoom Out

Sample Name: MP28738-D1 Acquired: 4/2/2015 13:16:49 Type: Unk
Method: 60102007_041712(v212) Mode: CONC Corr. Factor: 2.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	-.0010	3.768	.0005	.1816	.0000	597.7	-.0002	.0015	.1516	.0075
Stddev	.0006	.032	.0008	.0012	.000	9.5	.0001	.0001	.0005	.0007
%RSD	59.73	.8576	145.2	.6709	1326.	1.598	47.47	8.430	.3501	8.664
#1	-.0003	3.733	.0008	.1804	.0001	600.9	-.0001	.0014	.1512	.0068
#2	-.0015	3.796	.0011	.1828	-.0001	587.0	-.0003	.0016	.1522	.0077
#3	-.0012	3.776	-.0003	.1817	.0000	605.3	-.0001	.0015	.1514	.0081

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	4.562	87.02	4.859	.1054	.0331	46.35	.0415	-.0053	.0011	.0015
Stddev	.015	.06	.060	.0001	.0001	.14	.0002	.0010	.0013	.0013
%RSD	.3178	.0699	1.243	.1222	.2901	.2921	.5083	17.99	123.8	90.62
#1	4.558	86.95	4.792	.1055	.0330	46.21	.0417	-.0046	.0026	.0014
#2	4.550	87.04	4.909	.1054	.0331	46.47	.0415	-.0049	.0005	.0002
#3	4.578	87.07	4.875	.1052	.0332	46.39	.0413	-.0064	.0001	.0028

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	15.90	-.0003	1.071	.2267	-.0009	.0086	.1483
Stddev	.03	.0005	.004	.0006	.0007	.0001	.0002
%RSD	.1710	158.1	.3331	.2493	75.37	1.099	.1371
#1	15.87	-.0001	1.067	.2272	-.0009	.0087	.1484
#2	15.93	-.0008	1.074	.2261	-.0015	.0085	.1481
#3	15.90	.0000	1.071	.2268	-.0002	.0086	.1484

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	2631.7	7042.3	41154.	3589.5
Stddev	5.7	3.2	87.	21.3
%RSD	.21638	.04526	.21049	.59399
#1	2629.5	7039.4	41139.	3571.2
#2	2638.2	7045.7	41076.	3612.9
#3	2627.5	7041.7	41247.	3584.5

Zoom In Zoom Out

Sample Name: CCV Acquired: 4/2/2015 13:21:04 Type: QC
Method: 60102007_041712(v212) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2348	39.79	1.952	1.960	1.922	39.15	2.021	2.022	1.979	1.922
Stddev	.0017	.07	.004	.006	.004	.07	.002	.002	.005	.005
%RSD	.7102	.1874	.1902	.2912	.2351	.1780	.1192	.0909	.2316	.2697
#1	.2345	39.71	1.949	1.959	1.918	39.13	2.018	2.020	1.978	1.926
#2	.2366	39.86	1.951	1.967	1.927	39.23	2.021	2.022	1.984	1.923
#3	.2333	39.79	1.957	1.956	1.922	39.09	2.023	2.024	1.976	1.916
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value										
Range										

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	38.58	40.74	37.35	1.932	1.999	41.83	1.980	1.987	1.971	1.965
Stddev	.06	.11	.04	.008	.009	.08	.001	.003	.002	.002
%RSD	.1613	.2724	.1063	.4077	.4313	.1860	.0352	.1626	.1159	.0878
#1	38.55	40.63	37.36	1.934	1.990	41.78	1.979	1.984	1.968	1.964
#2	38.65	40.85	37.31	1.938	2.000	41.92	1.980	1.990	1.972	1.964
#3	38.54	40.75	37.38	1.923	2.007	41.78	1.980	1.988	1.971	1.967
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value										
Range										

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.028	1.924	1.985	1.980	2.015	1.885	1.995
Stddev	.001	.002	.004	.006	.004	.005	.003
%RSD	.0326	.1144	.2187	.2945	.1797	.2883	.1477
#1	2.028	1.922	1.981	1.981	2.011	1.886	1.991
#2	2.027	1.926	1.990	1.985	2.017	1.890	1.997
#3	2.029	1.924	1.985	1.974	2.018	1.880	1.996
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Zoom In Zoom Out

Sample Name: CCV Acquired: 4/2/2015 13:21:04 Type: QC
Method: 60102007_041712(v212) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2675.5	7415.3	42836.	3622.5
Stddev	5.9	8.9	197.	10.7
%RSD	.21910	.11973	.46021	.29457
#1	2682.2	7425.2	42838.	3618.1
#2	2671.6	7407.9	42637.	3614.7
#3	2672.5	7412.9	43032.	3634.6

Zoom In Zoom Out

Sample Name: CCB Acquired: 4/2/2015 13:25:10 Type: QC
Method: 60102007_041712(v212) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0001	.0090	-.0004	.0005	.0003	.0038	.0003	.0003	.0005
Stddev	.0002	.0053	.0005	.0001	.0001	.0025	.0001	.0001	.0002
%RSD	132.1	59.43	143.3	11.98	41.05	66.30	22.19	39.54	50.06
#1	-.0002	.0048	-.0005	.0005	.0002	.0026	.0004	.0004	.0008
#2	-.0003	.0072	-.0009	.0004	.0002	.0067	.0003	.0003	.0003
#3	.0001	.0150	.0002	.0006	.0004	.0022	.0003	.0002	.0004
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000	.0281	.0561	.0294	.0004	F.0033	-.0505	.0001	.0004
Stddev	.000	.0044	.0112	.0147	.0000	.0009	.0129	.0001	.0003
%RSD	308.2	15.68	20.03	49.83	4.432	26.70	25.58	71.66	75.77
#1	.0001	.0313	.0613	.0291	.0004	.0041	-.0359	.0001	.0003
#2	-.0001	.0299	.0432	.0443	.0004	.0033	-.0552	.0000	.0002
#3	-.0002	.0231	.0637	.0150	.0004	.0024	-.0604	.0001	.0008
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit						.0010			
Low Limit						-.0010			

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0015	.0002	-.0002	.0006	.0004	.0012	.0009	.0004	.0003
Stddev	.0006	.0008	.0003	.0003	.0001	.0002	.0003	.0000	.0001
%RSD	41.41	485.0	149.7	41.87	21.38	14.91	35.23	5.000	39.31
#1	.0011	-.0006	-.0002	.0009	.0003	.0015	.0008	.0003	.0004
#2	.0022	.0009	.0001	.0006	.0005	.0011	.0006	.0003	.0003
#3	.0011	.0001	-.0005	.0004	.0005	.0011	.0012	.0004	.0002
Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Zoom In
Zoom Out

Sample Name: CCB Acquired: 4/2/2015 13:25:10 Type: QC
Method: 60102007_041712(v212) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3195.1	7779.3	44892.	3644.9
Stddev	10.5	23.1	44.	2.8
%RSD	.32754	.29636	.09885	.07774
#1	3202.6	7805.2	44915.	3641.9
#2	3183.1	7761.0	44841.	3645.1
#3	3199.6	7771.7	44920.	3647.6

Zoom In
Zoom Out

Sample Name: MP28738-S1 Acquired: 4/2/2015 13:29:23 Type: Unk
Method: 60102007_041712(v212) Mode: CONC Corr. Factor: 2.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	.0475	30.83	2.055	2.191	.0492	620.7	.0495	.5031	.3511	.2597
Stddev	.0006	.07	.005	.007	.0003	.8	.0001	.0003	.0009	.0011
%RSD	1.207	.2298	.2634	.3317	.5762	.1295	.2816	.0542	.2633	.4139
#1	.0471	30.91	2.049	2.199	.0495	621.4	.0497	.5028	.3500	.2596
#2	.0473	30.82	2.059	2.190	.0493	621.0	.0495	.5033	.3516	.2586
#3	.0482	30.77	2.058	2.185	.0490	619.8	.0494	.5031	.3517	.2608

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	29.62	114.2	27.45	.5920	.5544	73.27	.5588	.4794	.5147	2.057
Stddev	.06	.8	.11	.0015	.0012	.28	.0003	.0013	.0012	.005
%RSD	.1963	.6924	.3929	.2579	.2179	.3825	.0602	.2761	.2346	.2534
#1	29.68	115.0	27.32	.5913	.5532	73.55	.5585	.4788	.5138	2.060
#2	29.61	114.2	27.51	.5938	.5545	73.28	.5592	.4786	.5141	2.051
#3	29.56	113.4	27.51	.5910	.5556	72.99	.5587	.4810	.5161	2.059

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	16.07	.5168	1.604	.7466	1.942	.4772	.8590
Stddev	.02	.0007	.006	.0024	.004	.0016	.0007
%RSD	.1497	.1285	.3669	.3152	.1843	.3268	.0771
#1	16.05	.5165	1.609	.7445	1.939	.4783	.8597
#2	16.08	.5164	1.604	.7492	1.941	.4779	.8584
#3	16.09	.5176	1.598	.7463	1.946	.4754	.8590

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	2587.6	7106.6	41005.	3608.5
Stddev	4.6	6.4	77.	10.0
%RSD	.17633	.08979	.18808	.27835
#1	2588.6	7101.4	40956.	3610.3
#2	2591.6	7113.7	40964.	3617.5
#3	2582.7	7104.8	41094.	3597.6

Zoom In
Zoom Out

Sample Name: MP28738-S2 Acquired: 4/2/2015 13:33:30 Type: Unk
Method: 60102007_041712(v212) Mode: CONC Corr. Factor: 2.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	.0477	30.73	2.049	2.186	.0491	610.2	.0493	.5003	.3451	.2565
Stddev	.0008	.05	.006	.001	.0002	7.7	.0001	.0006	.0007	.0003
%RSD	1.776	.1597	.2816	.0274	.4898	1.268	.1055	.1142	.1923	.1190
#1	.0467	30.69	2.043	2.186	.0489	609.7	.0494	.4997	.3452	.2562
#2	.0483	30.72	2.052	2.185	.0493	602.7	.0493	.5003	.3444	.2568
#3	.0481	30.79	2.053	2.186	.0492	618.1	.0493	.5008	.3458	.2565

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	29.55	112.5	27.39	.5839	.5511	72.07	.5366	.4743	.5106	2.043
Stddev	.14	.4	.11	.0003	.0016	.19	.0002	.0014	.0023	.004
%RSD	.4868	.3426	.3896	.0432	.2854	.2612	.0425	.3014	.4480	.2147
#1	29.41	112.1	27.27	.5838	.5494	71.86	.5364	.4748	.5094	2.038
#2	29.70	112.8	27.44	.5838	.5513	72.13	.5365	.4755	.5091	2.045
#3	29.55	112.5	27.47	.5842	.5526	72.22	.5368	.4727	.5132	2.047

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	15.55	.5137	1.579	.7338	1.927	.4750	.6286
Stddev	.06	.0008	.004	.0003	.001	.0003	.0005
%RSD	.3855	.1496	.2442	.0373	.0733	.0649	.0751
#1	15.49	.5136	1.575	.7341	1.926	.4751	.6286
#2	15.55	.5130	1.582	.7339	1.926	.4753	.6291
#3	15.61	.5145	1.579	.7335	1.929	.4747	.6282

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	2597.3	7106.8	41123.	3565.7
Stddev	4.5	3.1	123.	17.0
%RSD	.17516	.04395	.29850	.47541
#1	2592.3	7108.2	40981.	3585.1
#2	2598.5	7103.3	41203.	3553.8
#3	2601.2	7109.0	41183.	3558.1

Zoom In
Zoom Out

Sample Name: MP28738-PS1 Acquired: 4/2/2015 13:37:37 Type: Unk
Method: 60102007_041712(v212) Mode: CONC Corr. Factor: 2.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	.0493	6.559	.1135	.4572	.0522	615.3	.0540	.0559	.2085	.1174
Stddev	.0002	.014	.0024	.0008	.0002	5.1	.0001	.0001	.0007	.0009
%RSD	.3527	.2199	2.074	.1676	.3978	.8271	.1011	.2653	.3529	.8030
#1	.0491	6.553	.1108	.4565	.0524	609.4	.0540	.0559	.2092	.1168
#2	.0495	6.575	.1150	.4570	.0521	618.4	.0540	.0558	.2077	.1170
#3	.0493	6.548	.1146	.4580	.0520	618.0	.0541	.0561	.2086	.1185

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	7.716	102.1	9.640	.1632	.1426	59.50	.1512	.0448	.1126	.1127
Stddev	.009	.2	.032	.0002	.0004	.15	.0001	.0006	.0023	.0022
%RSD	.1231	.1957	.3302	.1033	.2535	.2543	.0952	1.344	1.998	1.953
#1	7.722	102.2	9.614	.1631	.1429	59.68	.1511	.0441	.1114	.1146
#2	7.720	102.2	9.631	.1634	.1426	59.44	.1513	.0453	.1112	.1103
#3	7.705	101.9	9.676	.1632	.1422	59.40	.1514	.0450	.1152	.1132

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	16.51	.0513	1.164	.3390	.1028	.0610	.4178
Stddev	.01	.0004	.002	.0005	.0020	.0001	.0007
%RSD	.0715	.7414	.1737	.1522	1.903	.2409	.1756
#1	16.50	.0514	1.166	.3386	.1017	.0609	.4179
#2	16.51	.0509	1.163	.3390	.1051	.0610	.4170
#3	16.52	.0516	1.163	.3396	.1017	.0612	.4185

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	2621.4	6993.4	40391.	3554.5
Stddev	5.0	12.0	72.	15.6
%RSD	.19241	.17129	.17713	.43780
#1	2618.8	6991.8	40454.	3565.2
#2	2627.2	7006.1	40313.	3536.7
#3	2618.2	6982.2	40406.	3561.8

Zoom In
Zoom Out

Sample Name: MP28738-SD1 Acquired: 4/2/2015 13:41:49 Type: Unk
Method: 60102007_041712(v212) Mode: CONC Corr. Factor: 10.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	.0028	3.430	-.0035	.1724	.0000	571.8	.0003	.0012	.1396	.0087
Stddev	.0030	.018	.0051	.0008	.0004	2.8	.0004	.0003	.0015	.0012
%RSD	104.4	.5349	147.3	.4890	2616.	.4846	128.8	21.41	1.062	13.69
#1	.0049	3.449	-.0072	.1729	.0002	568.9	.0007	.0011	.1410	.0098
#2	-.0006	3.413	-.0056	.1729	.0003	571.9	.0000	.0011	.1380	.0087
#3	.0042	3.428	.0024	.1714	-.0005	574.5	.0001	.0015	.1397	.0075

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	4.291	82.31	4.899	.0996	.0268	42.53	.0389	-.0190	-.0048	.0096
Stddev	.024	.38	.170	.0008	.0014	.19	.0013	.0025	.0063	.0019
%RSD	.5536	.4642	3.473	.8191	5.339	.4377	3.444	13.12	130.7	20.22
#1	4.287	82.66	4.726	.0986	.0276	42.35	.0379	-.0162	.0017	.0114
#2	4.317	81.91	5.066	.1002	.0276	42.51	.0383	-.0211	-.0109	.0075
#3	4.270	82.37	4.904	.0999	.0251	42.72	.0404	-.0197	-.0053	.0099

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	14.56	-.0015	1.002	.2172	.0103	.0070	.1412
Stddev	.01	.0025	.005	.0005	.0063	.0014	.0008
%RSD	.0704	166.3	.4733	.2403	61.35	20.51	.5684
#1	14.56	-.0007	.9980	.2166	.0102	.0055	.1411
#2	14.55	.0005	1.000	.2177	.0167	.0072	.1421
#3	14.57	-.0043	1.007	.2173	.0040	.0083	.1405

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	2975.2	7499.0	43264.	3586.9
Stddev	5.1	5.1	150.	18.8
%RSD	.17074	.06833	.34678	.52316
#1	2980.4	7502.6	43412.	3606.4
#2	2970.3	7493.1	43268.	3585.3
#3	2975.0	7501.2	43112.	3568.9

Zoom In
Zoom Out

Sample Name: FA23201-1 Acquired: 4/2/2015 13:45:57 Type: Unk
Method: 60102007_041712(v212) Mode: CONC Corr. Factor: 2.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	.0005	.0172	.0232	.0318	.0000	102.6	.0000	.0000	.0019	.0004
Stddev	.0002	.0175	.0004	.0002	.0001	.2	.0000	.000	.0001	.0003
%RSD	51.52	101.6	1.751	.7520	114.1	.2230	275.3	493.5	4.983	80.15
#1	.0002	.0325	.0235	.0318	.0001	102.7	.0000	-.0002	.0021	.0004
#2	.0007	-.0019	.0227	.0320	.0000	102.3	.0000	.0001	.0019	.0008
#3	.0005	.0210	.0234	.0316	.0000	102.7	.0001	.0000	.0019	.0001

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	.5981	6.416	12.58	.0204	.0068	125.7	.0006	-.0043	-.0011	.0018
Stddev	.0138	.039	.11	.0001	.0003	.3	.0004	.0009	.0009	.0010
%RSD	2.311	.6072	.8637	.3666	4.262	.2678	71.99	21.57	84.51	54.16
#1	.6059	6.451	12.67	.0205	.0068	126.0	.0010	-.0045	-.0020	.0029
#2	.6062	6.374	12.46	.0204	.0071	125.3	.0001	-.0052	-.0011	.0015
#3	.5821	6.424	12.62	.0204	.0065	125.8	.0007	-.0033	-.0002	.0010

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	5.057	-.0004	1.043	.0021	.0002	.0024	.0128
Stddev	.014	.0004	.003	.0002	.0004	.0005	.0001
%RSD	.2779	108.2	.2510	11.25	174.8	22.19	.5769
#1	5.042	-.0001	1.046	.0022	.0007	.0023	.0127
#2	5.059	-.0001	1.041	.0019	.0002	.0029	.0128
#3	5.070	-.0008	1.043	.0023	-.0001	.0019	.0128

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	2830.5	7312.1	41452.	3486.8
Stddev	4.1	6.7	192.	25.4
%RSD	.14387	.09176	.46337	.72757
#1	2826.3	7316.2	41243.	3474.8
#2	2831.0	7315.7	41493.	3516.0
#3	2834.4	7304.4	41620.	3469.7

Zoom In
Zoom Out

Sample Name: FA23201-7 Acquired: 4/2/2015 13:50:04 Type: Unk
Method: 60102007_041712(v212) Mode: CONC Corr. Factor: 4.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)
Avg	-.0005	109.8	.0113	.3027	.0084	205.0	.0050	.0222	.4906
Stddev	.0008	.2	.0026	.0009	.0003	.6	.0001	.0002	.0019
%RSD	159.7	.1894	23.31	.2897	3.151	.2924	1.098	1.085	.3919
#1	-.0006	109.6	.0113	.3028	.0081	204.3	.0050	.0220	.4886
#2	.0003	110.0	.0087	.3018	.0085	205.3	.0050	.0225	.4924
#3	-.0013	109.9	.0140	.3036	.0085	205.4	.0049	.0222	.4907

Elem	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
IS Ref	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)
Avg	.0717	27.41	9.180	5.440	14.52	-.0012	F433.2	.0662	.0856
Stddev	.0011	.03	.059	.043	.14	.0002	.4	.0003	.0006
%RSD	1.577	.1202	.6372	.7949	.9443	18.21	.0954	.4964	.6713
#1	.0729	27.38	9.234	5.395	14.37	-.0009	432.7	.0666	.0862
#2	.0706	27.43	9.189	5.446	14.64	-.0012	433.4	.0659	.0856
#3	.0716	27.43	9.118	5.481	14.54	-.0014	433.5	.0661	.0850

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	-.0049	.0223	52.37	.0015	4.012	.1674	.0101	.1297	.1241
Stddev	.0032	.0049	.06	.0005	.003	.0009	.0017	.0003	.0002
%RSD	65.30	22.07	.1100	32.80	.0632	.5568	17.06	.2253	.2001
#1	-.0077	.0218	52.43	.0011	4.009	.1674	.0121	.1294	.1240
#2	-.0014	.0275	52.32	.0020	4.012	.1665	.0090	.1300	.1244
#3	-.0056	.0177	52.36	.0014	4.014	.1684	.0092	.1297	.1239

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	2704.1	8996.4	50343.	4277.8
Stddev	4.4	2.5	191.	40.0
%RSD	.16237	.02739	.37984	.93482
#1	2708.7	8996.8	50552.	4314.4
#2	2700.0	8993.7	50302.	4283.9
#3	2703.5	8998.6	50176.	4235.1

Zoom In
Zoom Out

Sample Name: FA23201-8 Acquired: 4/2/2015 13:54:16 Type: Unk
Method: 60102007_041712(v212) Mode: CONC Corr. Factor: 4.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)
Avg	.0014	4.401	-.0014	.0246	.0003	203.9	.0004	.0016	.0341
Stddev	.0011	.025	.0029	.0004	.0002	.8	.0001	.0002	.0010
%RSD	73.51	.5778	203.8	1.684	71.89	.3861	40.70	11.95	2.966
#1	.0027	4.383	-.0047	.0244	.0003	204.4	.0002	.0017	.0340
#2	.0009	4.430	.0006	.0243	.0004	204.3	.0004	.0014	.0351
#3	.0008	4.389	-.0001	.0250	.0001	203.0	.0004	.0018	.0330

Elem	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
IS Ref	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)
Avg	.0078	4.895	2.747	2.252	F19.15	.0000	9.866	.0059	-.0024
Stddev	.0005	.064	.026	.023	.04	.0004	.115	.0010	.0016
%RSD	6.930	1.304	.9398	1.021	.2003	1143.	1.163	17.03	67.94
#1	.0083	4.966	2.777	2.236	19.11	-.0001	9.975	.0058	-.0008
#2	.0079	4.878	2.734	2.278	19.14	-.0002	9.878	.0049	-.0040
#3	.0072	4.842	2.732	2.242	19.19	.0005	9.747	.0069	-.0024

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	-.0025	.0014	6.400	.0008	1.028	.0270	.0112	.0174	.1643
Stddev	.0024	.0030	.011	.0012	.006	.0003	.0008	.0008	.0002
%RSD	96.16	220.3	.1703	143.0	.6173	1.265	7.384	4.559	.1232
#1	-.0017	-.0015	6.389	-.0002	1.034	.0268	.0121	.0174	.1645
#2	-.0051	.0045	6.401	.0005	1.028	.0273	.0107	.0167	.1641
#3	-.0006	.0011	6.411	.0022	1.021	.0267	.0108	.0182	.1644

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	2994.2	7697.2	43998.	3598.5
Stddev	6.5	8.1	157.	14.4
%RSD	.21701	.10516	.35748	.39935
#1	3000.6	7697.9	44111.	3591.8
#2	2987.6	7688.7	44065.	3588.8
#3	2994.5	7704.9	43819.	3615.0

Zoom In Zoom Out

Sample Name: FA23025-6 Acquired: 4/2/2015 13:58:32 Type: Unk
Method: 60102007_041712(v212) Mode: CONC Corr. Factor: 4.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	-.0006	.1138	.0108	.3126	.0005	1.241	.0004	.0150	.0044	-.0010
Stddev	.0013	.0049	.0012	.0004	.0001	.009	.0000	.0001	.0004	.0007
%RSD	203.4	4.283	11.54	.1233	16.36	.7117	10.24	.5156	8.328	71.41
#1	-.0020	.1100	.0094	.3130	.0005	1.250	.0004	.0151	.0045	-.0003
#2	.0006	.1193	.0118	.3124	.0006	1.238	.0004	.0149	.0040	-.0017
#3	-.0005	.1121	.0111	.3123	.0005	1.234	.0004	.0150	.0047	-.0011

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	8.508	2.379	1.640	13.66	-.0008	3.918	.0006	.0069	-.0020	.0053
Stddev	.029	.048	.075	.06	.0002	.018	.0004	.0010	.0030	.0029
%RSD	.3448	2.001	4.591	.4373	25.34	.4610	68.25	13.83	153.1	55.64
#1	8.488	2.369	1.594	13.62	-.0011	3.939	.0009	.0059	.0011	.0050
#2	8.541	2.338	1.727	13.64	-.0006	3.908	.0001	.0071	-.0050	.0083
#3	8.493	2.431	1.599	13.73	-.0008	3.907	.0007	.0077	-.0021	.0025

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	1.512	.0001	.0051	.0004	.0064	.0056	.0143
Stddev	.003	.0005	.0002	.0001	.0033	.0006	.0000
%RSD	.1893	517.3	4.141	18.01	51.60	11.53	.1050
#1	1.512	.0007	.0052	.0003	.0102	.0055	.0143
#2	1.515	-.0001	.0052	.0004	.0049	.0049	.0143
#3	1.509	-.0003	.0048	.0004	.0041	.0062	.0143

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	3175.6	8998.0	51564.	4200.2
Stddev	2.4	10.8	59.	13.7
%RSD	.07459	.11994	.11364	.32632
#1	3177.7	8989.3	51629.	4184.4
#2	3173.0	8994.5	51548.	4207.7
#3	3176.1	9010.1	51516.	4208.6

Zoom In Zoom Out

Sample Name: FA22940-15 Acquired: 4/2/2015 14:02:52 Type: Unk
Method: 60102007_041712(v212) Mode: CONC Corr. Factor: 500.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)
Avg	.0688	119.2	-.1553	.1839	-.0315	46.85	.0141	.0127	6.401
Stddev	.0773	3.1	.2010	.0194	.0392	1.12	.0099	.0258	.033
%RSD	112.4	2.578	129.5	10.55	124.2	2.380	70.46	202.3	.5071
#1	.0110	117.0	-.2339	.1701	-.0514	45.95	.0035	.0010	6.439
#2	.1567	122.7	.0732	.2060	-.0567	48.10	.0156	-.0051	6.384
#3	.0387	117.9	-.3052	.1754	.0136	46.51	.0232	.0423	6.382

Elem	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
IS Ref	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)
Avg	.0064	.3829	97.14	10.19	.0852	2.045	27640.	.0029	-.1592
Stddev	.1151	.6259	12.11	9.45	.0089	.027	102.	.0398	.1637
%RSD	1804.	163.5	12.46	92.79	10.39	1.314	.3676	1395.	102.8
#1	.1216	.4892	87.21	9.624	.0950	2.025	27600.	.0486	-.2028
#2	.0062	-.2893	110.6	19.91	.0828	2.076	27560.	-.0243	-.2967
#3	-.1086	.9489	93.58	1.029	.0778	2.036	27750.	-.0157	.0218

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	-.3024	.4788	99.64	-.0151	.0185	-.0495	.0006	9.716	.1462
Stddev	.3022	.6186	.07	.0517	.0253	.0456	.1348	.121	.0124
%RSD	99.93	129.2	.0680	342.3	136.7	92.00	24010.	1.250	8.475
#1	-.4577	.0474	99.67	-.0341	.0175	-.0664	.1441	9.747	.1377
#2	-.4954	1.188	99.69	-.0547	-.0062	-.0843	-.0192	9.818	.1604
#3	.0459	.2016	99.56	.0434	.0444	.0021	-.1233	9.582	.1405

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	2932.2	7534.4	42795.	3600.7
Stddev	4.3	6.7	292.	22.9
%RSD	.14503	.08903	.68306	.63721
#1	2936.7	7540.7	43121.	3608.3
#2	2931.5	7527.3	42556.	3618.9
#3	2928.3	7535.2	42708.	3575.0

Zoom In Zoom Out

Sample Name: FA22978-1 Acquired: 4/2/2015 14:07:03 Type: Unk
Method: 60102007_041712(v212) Mode: CONC Corr. Factor: 50.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	-.0027	35.89	-.0300	.0133	-.0002	4.172	-.0002	.0010	1.785	-.0077
Stddev	.0255	.60	.0130	.0122	.0028	.207	.0001	.0020	.022	.0062
%RSD	949.4	1.675	43.46	91.64	1156.	4.971	70.30	208.9	1.218	79.84
#1	.0116	35.27	-.0338	.0128	-.0001	4.059	-.0001	.0017	1.805	-.0067
#2	.0125	36.46	-.0155	.0014	.0025	4.046	-.0003	-.0013	1.762	-.0021
#3	-.0322	35.95	-.0407	.0257	-.0030	4.412	-.0001	.0025	1.787	-.0143

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	.0014	5.052	.3106	.1801	.0033	1192.	-.0019	-.0226	-.0354	-.0062
Stddev	.0516	1.010	.6360	.0017	.0049	6.	.0051	.0191	.0367	.0230
%RSD	3654.	19.98	204.8	.9346	147.0	.5123	265.6	84.51	103.7	372.7
#1	-.0348	6.155	.7519	.1789	-.0007	1185.	.0002	-.0431	-.0315	-.0304
#2	.0605	4.829	.5983	.1794	.0019	1195.	.0018	-.0195	-.0008	-.0034
#3	-.0215	4.173	-.4184	.1820	.0088	1196.	-.0078	-.0053	-.0739	.0153

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	7.672	.0018	-.0027	-.0009	.0345	.4863	.0319
Stddev	.030	.0077	.0056	.0031	.0097	.0118	.0018
%RSD	.3905	424.8	207.0	323.3	28.06	2.430	5.638
#1	7.637	-.0025	.0003	.0026	.0322	.4774	.0338
#2	7.691	.0106	.0008	-.0028	.0451	.4997	.0303
#3	7.688	-.0028	-.0091	-.0027	.0262	.4818	.0315

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	3050.7	7699.8	44062.	3626.8
Stddev	7.5	18.0	169.	25.9
%RSD	.24596	.23363	.38338	.71291
#1	3049.9	7715.1	43869.	3656.7
#2	3043.7	7680.0	44183.	3612.0
#3	3058.6	7704.4	44134.	3611.8

Zoom In Zoom Out

Sample Name: CCV Acquired: 4/2/2015 14:11:15 Type: QC
Method: 60102007_041712(v212) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2400	39.86	1.982	2.009	1.937	39.19	2.017	2.020	1.979	1.954
Stddev	.0001	.06	.004	.003	.001	.03	.001	.000	.005	.001
%RSD	.0462	.1527	.1778	.1549	.0373	.0703	.0253	.0188	.2306	.0551
#1	.2399	39.79	1.980	2.006	1.937	39.20	2.017	2.020	1.984	1.954
#2	.2401	39.86	1.980	2.008	1.937	39.16	2.016	2.020	1.979	1.955
#3	.2400	39.92	1.986	2.012	1.938	39.21	2.017	2.021	1.975	1.953
Check ?	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass
Value										
Range										

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	39.00	41.24	37.78	1.959	2.009	42.09	1.999	1.975	1.984	1.984
Stddev	.04	.08	.11	.012	.006	.03	.002	.001	.002	.001
%RSD	.1150	.1924	.3030	.5967	.3168	.0759	.0799	.0567	.1134	.0374
#1	38.95	41.33	37.81	1.971	2.002	42.05	1.997	1.974	1.981	1.984
#2	39.00	41.22	37.65	1.960	2.011	42.10	2.000	1.976	1.985	1.985
#3	39.04	41.17	37.87	1.947	2.014	42.11	2.000	1.974	1.985	1.983
Check ?	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass
Value										
Range										

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.049	1.953	2.004	2.010	2.012	1.918	1.988
Stddev	.001	.003	.001	.006	.002	.004	.002
%RSD	.0451	.1723	.0509	.3238	.0813	.2101	.0982
#1	2.048	1.950	2.003	2.017	2.011	1.921	1.986
#2	2.049	1.953	2.005	2.011	2.014	1.919	1.989
#3	2.050	1.957	2.005	2.004	2.011	1.913	1.989
Check ?	None	Chk	Pass	Chk	Pass	Chk	Pass
Value							
Range							

Zoom In Zoom Out

Sample Name: CCV Acquired: 4/2/2015 14:11:15 Type: QC
Method: 60102007_041712(v212) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2680.9	7388.7	42621.	3604.2
Stddev	4.5	8.0	133.	15.9
%RSD	.16787	.10811	.31156	.44099
#1	2686.0	7396.1	42494.	3585.8
#2	2679.1	7389.9	42609.	3613.3
#3	2677.6	7380.2	42759.	3613.3

Zoom In Zoom Out

Sample Name: CCB Acquired: 4/2/2015 14:15:20 Type: QC
Method: 60102007_041712(v212) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000	.0032	-.0008	.0004	.0004	.0024	.0003	.0003	.0005
Stddev	.0004	.0035	.0000	.0002	.0000	.0021	.0001	.0001	.0001
%RSD	984.1	111.3	1.593	41.23	2.340	89.42	26.08	41.61	21.95
#1	.0000	.0071	-.0008	.0005	.0004	.0048	.0003	.0003	.0005
#2	-.0004	.0021	-.0008	.0005	.0004	.0012	.0003	.0003	.0006
#3	.0005	.0003	-.0008	.0002	.0004	.0011	.0002	.0001	.0004
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0001	.0305	.0722	.0258	.0004	F.0032	-.0490	.0001	.0001
Stddev	.0001	.0088	.0093	.0075	.0000	.0009	.0035	.0001	.0003
%RSD	69.81	28.78	12.81	28.99	6.115	27.02	7.151	99.25	207.6
#1	.0002	.0357	.0749	.0342	.0004	.0041	-.0514	.0002	.0002
#2	.0001	.0355	.0799	.0199	.0004	.0031	-.0450	.0000	-.0002
#3	.0000	.0204	.0619	.0233	.0004	.0024	-.0505	.0002	.0004
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit						.0010			
Low Limit						-.0010			

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0008	-.0002	-.0002	.0006	.0004	.0013	.0006	.0004	.0002
Stddev	.0011	.0007	.0003	.0003	.0000	.0000	.0003	.0000	.0001
%RSD	129.3	295.8	148.0	52.29	8.548	3.056	54.78	10.40	50.09
#1	.0020	-.0006	.0001	.0009	.0004	.0013	.0008	.0004	.0003
#2	.0001	.0005	-.0002	.0007	.0004	.0014	.0002	.0005	.0002
#3	.0004	-.0006	-.0004	.0002	.0005	.0013	.0006	.0004	.0001
Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Zoom In Zoom Out

Sample Name: CCB Acquired: 4/2/2015 14:15:20 Type: QC
Method: 60102007_041712(v212) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3205.2	7762.8	45004.	3597.0
Stddev	7.3	12.2	108.	27.3
%RSD	.22862	.15742	.24024	.75964
#1	3210.0	7772.1	44879.	3565.7
#2	3208.8	7767.4	45058.	3609.2
#3	3196.7	7749.0	45074.	3616.1

Zoom In Zoom Out

Sample Name: CCB Acquired: 4/2/2015 14:50:00 Type: QC
Method: 60102007_041712(v212) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0001	.0102	.0003	.0005	.0004	.0107	.0003	.0002	.0002	.0005
Stddev	.0002	.0048	.0008	.0000	.0001	.0034	.0000	.0001	.0000	.0002
%RSD	166.2	47.16	290.6	9.415	13.94	31.78	8.852	31.29	18.63	37.92
#1	.0000	.0065	.0011	.0005	.0005	.0114	.0003	.0002	.0003	.0007
#2	.0000	.0085	.0004	.0006	.0005	.0070	.0004	.0003	.0002	.0003
#3	-.0004	.0157	-.0006	.0005	.0004	.0137	.0003	.0002	.0002	.0004
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0178	.0170	.0124	.0005	.0007	-.0018	.0005	.0009	.0016	.0006
Stddev	.0011	.0193	.0302	.0001	.0002	.0010	.0001	.0002	.0002	.0010
%RSD	6.413	114.1	243.9	13.11	21.76	56.49	15.48	20.64	14.89	156.9
#1	.0191	.0323	-.0095	.0006	.0008	-.0027	.0006	.0010	.0014	.0005
#2	.0175	-.0048	-.0002	.0005	.0007	-.0007	.0004	.0007	.0014	-.0003
#3	.0168	.0234	.0468	.0004	.0005	-.0021	.0005	.0009	.0018	.0016
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0008	.0006	.0005	.0007	.0004	.0005	.0002
Stddev	.0004	.0003	.0001	.0000	.0008	.0001	.0000
%RSD	48.97	44.76	10.97	5.260	182.9	19.44	10.09
#1	.0011	.0009	.0005	.0008	.0008	.0004	.0002
#2	.0004	.0006	.0006	.0007	-.0005	.0006	.0002
#3	.0007	.0004	.0005	.0007	.0009	.0005	.0002
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Zoom In
Zoom Out

Sample Name: CCB Acquired: 4/2/2015 14:50:00 Type: QC
Method: 60102007_041712(v212) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Int. Std.	ln2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3165.0	7636.9	43992.	3557.7
Stddev	2.5	6.5	83.	14.8
%RSD	.07843	.08539	.18972	.41512
#1	3162.1	7634.8	44047.	3572.5
#2	3166.8	7644.3	44033.	3543.0
#3	3166.1	7631.8	43896.	3557.7

Zoom In
Zoom Out

Sample Name: FA22978-2 Acquired: 4/2/2015 14:53:28 Type: Unk
Method: 60102007_041712(v212) Mode: CONC Corr. Factor: 50.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	.0173	76.48	.0455	.0146	.0014	5.965	-.0010	-.0046	.8388	-.0108
Stddev	.0181	.51	.0155	.0063	.0016	.056	.0015	.0008	.0065	.0049
%RSD	104.9	.6626	34.07	42.90	113.7	.9459	141.7	17.47	.7749	45.01
#1	.0352	77.02	.0380	.0084	.0007	6.003	.0006	-.0052	.8337	-.0150
#2	-.0010	76.41	.0352	.0209	.0003	5.992	-.0023	-.0049	.8461	-.0055
#3	.0176	76.01	.0633	.0146	.0032	5.900	-.0013	-.0037	.8366	-.0120

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(ln2306)	(Y_2243)	(Y_2243)
Avg	.2923	2.581	-.9692	.2321	.0985	1510.	.0121	.0156	.0562	.0167
Stddev	.1570	.240	.7309	.0017	.0055	6.	.0045	.0062	.0054	.0179
%RSD	53.73	9.285	75.42	.7344	5.583	.4011	37.49	40.06	9.690	107.3
#1	.1152	2.374	-1.608	.2313	.0970	1514.	.0075	.0180	.0591	.0005
#2	.4146	2.525	-.1722	.2309	.1046	1503.	.0123	.0202	.0499	.0136
#3	.3470	2.843	-1.127	.2340	.0939	1514.	.0166	.0085	.0595	.0360

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(ln2306)	(Y_3600)	(Y_2243)
Avg	27.23	.0127	.0035	.0132	-.0182	1.289	.0342
Stddev	.04	.0025	.0046	.0072	.0193	.007	.0020
%RSD	.1539	20.00	132.3	54.12	106.0	.5308	5.903
#1	27.19	.0150	-.0018	.0215	-.0043	1.283	.0321
#2	27.28	.0100	.0067	.0084	-.0101	1.288	.0361
#3	27.22	.0129	.0055	.0099	-.0402	1.297	.0342

Int. Std.	ln2306	Y_2243	Y_3600	Y_3710
Avg	2978.1	7573.0	42905.	3536.4
Stddev	8.0	15.7	115.	27.5
%RSD	.26740	.20698	.26847	.77718
#1	2984.8	7591.1	43033.	3552.6
#2	2980.3	7563.7	42875.	3552.0
#3	2969.3	7564.2	42808.	3504.7

Zoom In
Zoom Out

Sample Name: FA28978-4 Acquired: 4/2/2015 14:57:38 Type: Unk
Method: 60102007_041712(v212) Mode: CONC Corr. Factor: 50.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	.0164	81.31	.0264	.0097	-.0013	5.050	-.0026	-.0070	4.147	-.0116
Stddev	.0123	.57	.0139	.0095	.0028	.068	.0018	.0038	.027	.0064
%RSD	75.07	.7002	52.85	97.90	216.0	1.342	70.08	54.66	.6466	55.50
#1	.0031	81.91	.0328	.0201	-.0037	4.974	-.0009	-.0031	4.152	-.0054
#2	.0188	81.22	.0104	.0014	.0018	5.106	-.0024	-.0108	4.171	-.0182
#3	.0273	80.78	.0360	.0076	-.0019	5.069	-.0046	-.0071	4.118	-.0112

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(ln2306)	(Y_2243)	(Y_2243)
Avg	-.1475	2.893	-1.110	.0567	.0291	1839.	.0060	.0201	.0313	.0435
Stddev	.1037	.475	1.151	.0015	.0025	4.	.0062	.0347	.0155	.0638
%RSD	70.32	16.43	103.7	2.701	8.491	.2037	104.2	172.9	49.49	146.7
#1	-.0666	2.375	-1.646	.0574	.0294	1843.	-.0005	.0562	.0195	.1148
#2	-.2645	3.308	-1.896	.0577	.0315	1838.	.0120	.0170	.0488	-.0083
#3	-.1116	2.998	.2117	.0549	.0266	1836.	.0065	-.0130	.0254	.0240

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(ln2306)	(Y_3600)	(Y_2243)
Avg	26.14	.0087	-.0019	.0026	-.0064	1.301	.0308
Stddev	.02	.0016	.0023	.0053	.0168	.001	.0005
%RSD	.0692	18.47	120.9	199.3	260.7	.0811	1.738
#1	26.12	.0072	-.0023	-.0034	.0030	1.300	.0314
#2	26.16	.0104	-.0039	.0053	-.0258	1.300	.0306
#3	26.14	.0084	.0006	.0061	.0035	1.302	.0304

Int. Std.	ln2306	Y_2243	Y_3600	Y_3710
Avg	2941.0	7521.1	42987.	3529.8
Stddev	2.5	6.2	238.	2.4
%RSD	.08423	.08219	.55355	.06874
#1	2943.9	7515.1	43014.	3532.4
#2	2939.8	7520.8	42737.	3529.3
#3	2939.5	7527.5	43211.	3527.7

Zoom In
Zoom Out

Sample Name: FA28727-D1 Acquired: 4/2/2015 15:01:48 Type: Unk
Method: 60102007_041712(v212) Mode: CONC Corr. Factor: 50.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	.0068	81.47	.0015	.0189	-.0043	5.249	-.0016	-.0006	4.169	-.0193
Stddev	.0075	.45	.0306	.0041	.0037	.118	.0009	.0004	.008	.0138
%RSD	110.2	.5529	2085.	21.69	86.82	2.256	60.87	58.22	.1845	71.41
#1	.0084	81.70	-.0332	.0180	-.0079	5.287	-.0013	-.0010	4.165	-.0087
#2	.0135	80.95	.0250	.0154	-.0005	5.116	-.0008	-.0002	4.165	-.0143
#3	-.0014	81.76	.0125	.0234	-.0044	5.344	-.0026	-.0007	4.178	-.0349

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(ln2306)	(Y_2243)	(Y_2243)
Avg	-.1154	1.888	.2148	.0550	.0224	1844.	.0114	-.0009	.0250	-.0119
Stddev	.1046	.645	1.031	.0011	.0050	.	.0018	.0173	.0154	.0328
%RSD	90.68	34.15	480.0	2.037	22.13	.0249	15.89	1893.	61.69	276.0
#1	-.0134	2.620	-.8977	.0556	.0195	1845.	.0100	.0072	.0167	-.0481
#2	-.2224	1.643	1.139	.0537	.0282	1844.	.0108	-.0207	.0428	.0156
#3	-.1103	1.402	.4036	.0557	.0196	1845.	.0134	.0108	.0155	-.0030

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(ln2306)	(Y_3600)	(Y_2243)
Avg	26.22	-.0039	-.0018	.0007	-.0039	1.296	.0332
Stddev	.03	.0115	.0046	.0028	.0085	.006	.0014
%RSD	.0977	293.1	257.9	416.0	218.0	.4410	4.361
#1	26.20	.0040	-.0022	-.0024	-.0085	1.302	.0332
#2	26.21	.0014	.0030	.0030	.0059	1.296	.0317
#3	26.25	-.0171	-.0061	.0015	-.0091	1.290	.0346

Int. Std.	ln2306	Y_2243	Y_3600	Y_3710
Avg	2937.2	7531.6	43060.	3548.8
Stddev	2.0	7.8	193.	18.2
%RSD	.06942	.10411	.44810	.51213
#1	2939.3	7540.5	42918.	3550.1
#2	2937.3	7525.9	43280.	3530.0
#3	2935.2	7528.3	42983.	3566.3

Zoom In Zoom Out

Sample Name: MP28727-S1 Acquired: 4/2/2015 15:05:57 Type: Unk
Method: 60102007_041712(v212) Mode: CONC Corr. Factor: 50.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	.0522	110.5	2.178	2.144	.0532	31.43	.0540	.5571	4.419	.2558
Stddev	.0076	.1	.022	.020	.0066	.12	.0019	.0062	.007	.0093
%RSD	14.49	.1060	1.014	.9357	12.39	.3837	3.485	1.109	.1692	3.642
#1	.0438	110.7	2.183	2.125	.0540	31.33	.0529	.5614	4.423	.2656
#2	.0584	110.5	2.154	2.142	.0462	31.56	.0529	.5500	4.423	.2471
#3	.0544	110.5	2.198	2.165	.0593	31.39	.0562	.5598	4.410	.2548

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	28.40	29.02	25.34	.6091	.5827	1881.	.5832	.5188	.5968	2.229
Stddev	.32	.80	.47	.0026	.0049	6.	.0078	.0083	.0106	.088
%RSD	1.136	2.752	1.862	.4209	.8337	.3209	1.332	1.598	1.769	3.963
#1	28.68	29.38	25.87	.6075	.5793	1875.	.5907	.5110	.5883	2.207
#2	28.47	28.10	24.97	.6077	.5883	1886.	.5838	.5275	.5934	2.153
#3	28.05	29.57	25.18	.6120	.5806	1884.	.5752	.5181	.6086	2.326

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	26.58	.5861	.5629	.5662	2.079	1.828	.5867
Stddev	.16	.0052	.0056	.0016	.038	.009	.0046
%RSD	.5881	.8857	.9941	.2768	1.850	.5018	.7864
#1	26.43	.5915	.5576	.5644	2.116	1.825	.5840
#2	26.57	.5856	.5688	.5671	2.080	1.839	.5921
#3	26.74	.5811	.5625	.5671	2.040	1.821	.5842

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	2916.5	7465.7	43087.	3584.6
Stddev	14.4	48.8	106.	22.9
%RSD	.49424	.65325	.24540	.63830
#1	2927.2	7504.4	43177.	3607.1
#2	2922.2	7481.9	43113.	3585.4
#3	2900.1	7410.9	42970.	3561.3

Zoom In Zoom Out

Sample Name: MP28727-S2 Acquired: 4/2/2015 15:10:05 Type: Unk
Method: 60102007_041712(v212) Mode: CONC Corr. Factor: 50.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	.0657	106.7	2.133	2.089	.0489	31.68	.0518	.5415	4.228	.2536
Stddev	.0099	.2	.040	.021	.0036	.13	.0008	.0042	.011	.0077
%RSD	15.09	.2174	1.882	1.001	7.278	.4192	1.586	.7810	.2661	3.030
#1	.0715	106.8	2.134	2.099	.0449	31.69	.0523	.5457	4.227	.2493
#2	.0714	106.9	2.173	2.103	.0517	31.81	.0509	.5373	4.217	.2490
#3	.0543	106.4	2.092	2.065	.0502	31.54	.0524	.5414	4.240	.2625

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	27.35	28.67	26.19	.5937	.5616	1808.	.5532	.5097	.5346	2.110
Stddev	.29	1.59	1.29	.0042	.0041	3.	.0028	.0125	.0255	.035
%RSD	1.061	5.530	4.905	.7033	.7372	.1683	.5142	2.455	4.768	1.659
#1	27.01	28.86	25.46	.5933	.5612	1807.	.5504	.5224	.5087	2.088
#2	27.49	27.00	27.67	.5980	.5659	1811.	.5531	.5093	.5596	2.092
#3	27.54	30.15	25.43	.5897	.5577	1805.	.5561	.4974	.5355	2.151

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	25.34	.5772	.5451	.5518	2.064	1.753	.5650
Stddev	.06	.0117	.0035	.0043	.025	.004	.0055
%RSD	.2363	2.025	.6458	.7806	1.189	.2015	.9736
#1	25.41	.5877	.5442	.5539	2.072	1.749	.5587
#2	25.32	.5646	.5489	.5469	2.084	1.752	.5674
#3	25.29	.5793	.5421	.5547	2.037	1.756	.5688

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	2910.7	7450.2	42886.	3548.1
Stddev	11.3	48.5	25.	15.9
%RSD	.38920	.65094	.05903	.44901
#1	2897.7	7394.6	42858.	3550.5
#2	2918.0	7483.8	42907.	3531.0
#3	2916.5	7472.2	42892.	3562.6

Zoom In Zoom Out

Sample Name: MP28727-PS1 Acquired: 4/2/2015 15:14:13 Type: Unk
Method: 60102007_041712(v212) Mode: CONC Corr. Factor: 50.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	.0585	80.98	.1451	.3478	.0667	10.25	.0707	.0690	4.056	.1234
Stddev	.0051	.38	.0221	.0095	.0013	.08	.0016	.0014	.013	.0127
%RSD	8.739	.4691	15.25	2.726	1.999	.7638	2.240	1.992	.3310	10.27
#1	.0549	80.55	.1583	.3383	.0680	10.19	.0703	.0684	4.068	.1348
#2	.0643	81.12	.1196	.3572	.0653	10.22	.0694	.0705	4.041	.1258
#3	.0562	81.27	.1575	.3479	.0668	10.34	.0725	.0680	4.058	.1097

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	4.118	14.47	6.374	.1252	.1583	1773.	.1532	.0824	.1636	.1772
Stddev	.187	1.62	.155	.0017	.0066	3.	.0048	.0154	.0247	.0464
%RSD	4.545	11.22	2.435	1.398	4.176	.1485	3.107	18.65	15.09	26.18
#1	3.928	15.78	6.383	.1268	.1585	1771.	.1506	.0661	.1773	.1676
#2	4.122	14.99	6.214	.1255	.1516	1776.	.1587	.0966	.1783	.2276
#3	4.302	12.65	6.524	.1233	.1648	1773.	.1502	.0846	.1351	.1363

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	25.01	.0672	.0644	.1354	.1063	1.304	.3882
Stddev	.09	.0055	.0024	.0009	.0211	.008	.0030
%RSD	.3490	8.139	3.717	.6732	19.83	.6420	.7645
#1	25.07	.0733	.0636	.1361	.0919	1.295	.3861
#2	24.91	.0655	.0671	.1344	.0966	1.311	.3869
#3	25.05	.0627	.0625	.1357	.1306	1.305	.3916

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	2917.7	7519.4	43063.	3586.0
Stddev	4.3	6.7	104.	33.9
%RSD	.14871	.08854	.24128	.94457
#1	2921.6	7512.0	43031.	3622.9
#2	2918.6	7521.2	43179.	3578.8
#3	2913.0	7524.9	42979.	3556.3

Zoom In Zoom Out

Sample Name: MP28727-SD1 Acquired: 4/2/2015 15:18:20 Type: Unk
Method: 60102007_041712(v212) Mode: CONC Corr. Factor: 250.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	-.1179	79.18	-.0246	.0760	-.0041	28.28	-.0182	-.0110	4.042	-.1737
Stddev	.0848	1.80	.0238	.0227	.0157	.13	.0124	.0122	.033	.0427
%RSD	71.87	2.273	97.01	29.83	379.3	.4728	68.12	110.8	.8089	24.59
#1	-.1853	77.17	-.0041	.0964	-.0038	28.16	-.0276	-.0212	4.047	-.1439
#2	-.0228	79.72	-.0507	.0801	-.0200	28.42	-.0041	-.0142	4.071	-.2226
#3	-.1457	80.64	-.0189	.0516	.0114	28.25	-.0228	.0025	4.007	-.1546

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	-.9415	3.786	-4.283	.0464	-.0345	1816.	.0356	.0733	.1434	-.1286
Stddev	.8611	3.176	6.345	.0071	.0215	5.	.0298	.0565	.2089	.2377
%RSD	91.46	83.88	148.1	15.24	62.33	.2861	83.65	77.09	145.6	184.8
#1	-1.393	.2416	3.035	.0444	-.0416	1811.	.0080	.0103	.0825	.0526
#2	.0515	6.372	-7.647	.0406	-.0103	1821.	.0672	.0898	-.0282	-.3977
#3	-1.483	4.743	-8.238	.0543	-.0514	1818.	.0316	.1196	.3761	-.0407

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	25.32	-.0284	-.0209	-.0221	-.0994	1.178	.0703
Stddev	.09	.0173	.0142	.0108	.1726	.033	.0091
%RSD	.3435	60.92	67.93	48.81	173.6	2.759	12.93
#1	25.42	-.0246	-.0219	-.0161	.0451	1.155	.0603
#2	25.26	-.0473	-.0346	-.0156	-.0528	1.215	.0725
#3	25.29	-.0133	-.0063	-.0345	-.2905	1.163	.0780

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	3051.2	7679.3	45223.	3672.4
Stddev	7.7	1.6	184.	31.2
%RSD	.25237	.02121	.40747	.84919
#1	3058.4	7680.1	45047.	3685.9
#2	3052.1	7680.4	45415.	3694.5
#3	3043.1	7677.4	45206.	3636.7

Zoom In Zoom Out

Sample Name: FA22978-3 Acquired: 4/2/2015 15:22:31 Type: Unk
Method: 60102007_041712(v212) Mode: CONC Corr. Factor: 500.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)
Avg	.0117	218.0	.3617	.1378	-.0912	52.68	-.0370	.0024	20.27
Stddev	.0749	1.6	.1100	.1155	.0256	1.37	.0268	.0573	.08
%RSD	642.0	.7321	30.40	83.82	28.12	2.596	72.44	2438.	.3884
#1	.0596	219.7	.2516	.0419	-.0637	52.78	-.0146	.0513	20.33
#2	.0499	216.5	.3619	.2660	-.1145	54.00	-.0298	-.0607	20.18
#3	-.0746	217.8	.4715	.1055	-.0953	51.27	-.0667	.0164	20.29

Elem	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
IS Ref	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)
Avg	-.3974	-.8792	38.06	4.763	13.13	.0382	25990.	.0085	.0625
Stddev	.0341	1.914	8.92	2.869	.02	.0403	51.	.0743	.1088
%RSD	8.572	217.7	23.44	60.23	.1284	105.3	.1948	875.2	174.1
#1	-.4158	-1.621	32.55	7.386	13.14	.0656	26050.	.0054	-.0620
#2	-.4184	-2.311	33.28	5.202	13.13	.0572	25950.	-.0642	.1392
#3	-.3581	1.294	48.36	1.700	13.11	-.0080	25980.	.0842	.1104

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	.4008	-.6277	75.43	.0823	-.0060	-.0562	-.3425	5.183	.1700
Stddev	.0955	.2110	.22	.0358	.0247	.0156	.2236	.084	.0196
%RSD	23.82	33.61	.2935	43.48	407.9	27.81	65.29	1.611	11.52
#1	.3069	-.7750	75.63	.0453	-.0263	-.0447	-.4947	5.279	.1477
#2	.3977	-.3860	75.19	.1168	.0214	-.0740	-.0857	5.139	.1844
#3	.4977	-.7220	75.48	.0847	-.0132	-.0499	-.4470	5.130	.1778

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	2870.9	7547.8	45056.	3734.4
Stddev	6.2	2.9	34.	32.0
%RSD	.21660	.03864	.07648	.85676
#1	2870.8	7549.5	45017.	3697.5
#2	2877.2	7549.4	45077.	3753.4
#3	2864.7	7544.4	45076.	3752.3

Zoom In Zoom Out

Sample Name: FA22978-5 Acquired: 4/2/2015 15:26:42 Type: Unk
Method: 60102007_041712(v212) Mode: CONC Corr. Factor: 20.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	-.0092	25.67	-.0016	.0059	-.0024	1.754	-.0015	.0006	.2177	-.0167
Stddev	.0039	.16	.0021	.0031	.0021	.027	.0007	.0005	.0022	.0036
%RSD	42.81	.6331	127.5	52.78	88.49	1.556	42.67	73.84	1.027	21.67
#1	-.0136	25.68	-.0041	.0023	-.0009	1.773	-.0022	.0001	.2183	-.0191
#2	-.0060	25.50	-.0004	.0077	-.0015	1.723	-.0014	.0010	.2152	-.0186
#3	-.0079	25.82	-.0005	.0077	-.0049	1.767	-.0009	.0008	.2196	-.0126

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	.3398	1.210	-.1208	.1426	.0013	600.6	.0167	.0080	.0114	-.0239
Stddev	.0665	.440	.0722	.0000	.0006	1.7	.0046	.0046	.0186	.0216
%RSD	19.58	36.34	59.78	.0334	44.57	.2891	27.81	57.28	163.3	90.47
#1	.4025	1.165	-.1385	.1426	.0010	601.5	.0113	.0038	.0170	-.0488
#2	.3469	.7950	-.0414	.1425	.0009	598.6	.0189	.0130	-.0094	-.0126
#3	.2700	1.671	-.1825	.1426	.0020	601.8	.0198	.0073	.0265	-.0103

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	11.74	-.0050	.0021	.0222	-.0088	.2038	.0205
Stddev	.06	.0050	.0015	.0106	.0049	.0019	.0004
%RSD	.4892	100.2	71.58	47.49	56.03	.9498	1.949
#1	11.81	-.0007	.0035	.0156	-.0092	.2050	.0204
#2	11.70	-.0037	.0005	.0166	-.0135	.2015	.0202
#3	11.71	-.0105	.0022	.0344	-.0037	.2048	.0210

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	2891.8	7557.2	45334.	3752.6
Stddev	3.8	13.6	52.	65.4
%RSD	.13095	.17946	.11576	1.7419
#1	2891.6	7546.1	45294.	3754.5
#2	2888.1	7553.3	45314.	3817.0
#3	2895.6	7572.3	45393.	3686.3

Zoom In Zoom Out

Sample Name: FA22978-6 Acquired: 4/2/2015 15:30:53 Type: Unk
Method: 60102007_041712(v212) Mode: CONC Corr. Factor: 50.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	-.0162	46.37	.0726	.0138	-.0062	4.434	-.0030	-.0040	2.046	-.0609
Stddev	.0048	.22	.0318	.0052	.0023	.133	.0007	.0060	.004	.0038
%RSD	29.71	.4783	43.76	37.37	37.62	3.004	24.66	149.4	.1989	6.263
#1	-.0166	46.62	.0915	.0129	-.0039	4.386	-.0037	-.0063	2.049	-.0650
#2	-.0112	46.24	.0903	.0193	-.0061	4.584	-.0022	-.0085	2.041	-.0601
#3	-.0208	46.24	.0359	.0091	-.0085	4.331	-.0030	.0028	2.046	-.0575

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	.0141	1.615	-1.499	.0663	.0410	1203.	.0044	.0124	.0381	.0170
Stddev	.0850	.942	1.322	.0015	.0033	5.	.0057	.0045	.0241	.0598
%RSD	601.6	58.33	88.16	2.217	7.965	.4458	129.4	36.24	63.10	351.7
#1	-.0673	.5273	-2.327	.0646	.0381	1201.	-.0007	.0142	.0581	.0335
#2	.0073	2.157	-2.196	.0674	.0445	1210.	.0034	.0158	.0449	.0668
#3	.1023	2.160	.0250	.0668	.0404	1200.	.0106	.0073	.0114	-.0493

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	22.37	-.0020	-.0019	-.0028	-.0105	1.500	.1346
Stddev	.07	.0046	.0022	.0033	.0128	.006	.0010
%RSD	.3297	226.0	117.4	117.7	122.1	.3848	.7284
#1	22.42	-.0071	-.0040	-.0029	-.0061	1.494	.1351
#2	22.28	-.0010	.0004	.0005	-.0249	1.505	.1335
#3	22.39	.0019	-.0022	-.0060	-.0004	1.501	.1352

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	2933.7	7674.2	46716.	3811.4
Stddev	11.5	21.8	184.	32.5
%RSD	.39324	.28421	.39485	.85265
#1	2946.1	7696.4	46885.	3846.9
#2	2923.3	7673.5	46743.	3783.2
#3	2931.8	7652.8	46519.	3804.1

Zoom In Zoom Out

Sample Name: CCV Acquired: 4/2/2015 15:35:03 Type: QC
Method: 60102007_041712(v212) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F.2152	39.38	1.855	F1.726	1.893	39.58	2.050	2.036	1.962
Stddev	.0002	.10	.002	.004	.002	.09	.002	.002	.003
%RSD	.0939	.2532	.1273	.2177	.0937	.2330	.1168	.0937	.1724
#1	.2152	39.37	1.857	1.730	1.893	39.56	2.049	2.036	1.960
#2	.2153	39.28	1.853	1.722	1.892	39.49	2.048	2.034	1.966
#3	.2150	39.48	1.854	1.726	1.895	39.67	2.053	2.038	1.960
Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	.2500			2.000					
Range	-10.00%			-10.00%					

Elem	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.815	37.64	36.47	F35.87	1.807	1.959	39.10	1.904	2.035
Stddev	.001	.10	.08	.17	.003	.006	.04	.001	.004
%RSD	.0667	.2716	.2185	.4733	.1527	.3323	.0991	.0581	.2125
#1	1.817	37.64	36.51	35.81	1.805	1.953	39.10	1.903	2.031
#2	1.815	37.54	36.38	35.74	1.806	1.960	39.06	1.905	2.035
#3	1.815	37.74	36.53	36.06	1.811	1.966	39.13	1.904	2.040
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value				40.00					
Range				-10.00%					

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.912	1.881	1.953	1.804	1.885	1.857	2.051	F1.720	2.015
Stddev	.003	.002	.001	.001	.002	.005	.007	.002	.002
%RSD	.1736	.1099	.0452	.0588	.0865	.2839	.3480	.0851	.0965
#1	1.913	1.883	1.954	1.803	1.886	1.857	2.044	1.719	2.013
#2	1.908	1.880	1.952	1.805	1.883	1.862	2.050	1.722	2.015
#3	1.914	1.879	1.952	1.804	1.886	1.851	2.059	1.721	2.017
Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
Value								2.000	
Range								-10.00%	

Zoom In Zoom Out

Sample Name: CCV Acquired: 4/2/2015 15:35:03 Type: QC
Method: 60102007_041712(v212) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2603.7	7400.6	45229.	3777.4
Stddev	6.6	5.6	131.	42.1
%RSD	.25420	.07504	.28876	1.1147
#1	2610.1	7406.1	45364.	3779.5
#2	2604.0	7400.7	45103.	3818.4
#3	2596.9	7395.0	45219.	3734.3

Zoom In Zoom Out

Sample Name: CCB Acquired: 4/2/2015 15:39:08 Type: QC
Method: 60102007_041712(v212) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0003	.0020	.0001	.0003	.0002	.0010	.0002	.0002	.0000
Stddev	.0004	.0105	.0004	.0002	.0001	.0011	.0001	.0001	.0003
%RSD	151.9	518.6	712.9	75.09	64.83	117.3	53.80	33.02	1468.
#1	-.0004	-.0085	.0000	.0005	.0000	.0009	.0003	.0003	.0002
#2	-.0007	.0022	-.0003	.0002	.0003	.0021	.0002	.0002	.0001
#3	.0002	.0124	.0005	.0001	.0002	-.0001	.0001	.0002	-.0003
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0008	.0344	.0130	.0111	.0003	F.0039	.0083	.0003	.0006
Stddev	.0001	.0082	.0224	.0138	.0000	.0012	.0043	.0001	.0002
%RSD	14.14	23.92	173.1	125.1	7.181	31.60	51.56	53.27	27.15
#1	-.0008	.0429	-.0124	.0144	.0003	.0052	.0115	.0003	.0006
#2	-.0009	.0339	.0211	.0229	.0003	.0037	.0034	.0004	.0008
#3	-.0007	.0264	.0302	-.0041	.0003	.0027	.0101	.0001	.0004
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit						.0010			
Low Limit						-.0010			

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F.0025	-.0003	.0006	.0007	.0002	.0018	.0002	.0004	.0001
Stddev	.0007	.0012	.0002	.0003	.0000	.0001	.0009	.0002	.0001
%RSD	28.35	405.7	35.31	37.16	20.98	4.203	566.9	62.50	71.24
#1	.0031	-.0005	.0007	.0008	.0003	.0018	.0011	.0003	.0002
#2	.0026	-.0014	.0004	.0010	.0002	.0018	-.0001	.0002	.0002
#3	.0017	.0010	.0008	.0004	.0002	.0019	-.0005	.0006	.0000
Check ?	Chk Fail	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	.0020								
Low Limit	-.0020								

Zoom In Zoom Out

Sample Name: CCB Acquired: 4/2/2015 15:39:08 Type: QC
Method: 60102007_041712(v212) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3102.8	7705.2	47433.	3785.7
Stddev	2.9	11.6	165.	30.7
%RSD	.09417	.15023	.34838	.80981
#1	3102.8	7709.5	47540.	3789.1
#2	3105.6	7714.0	47517.	3814.4
#3	3099.8	7692.1	47243.	3753.4

Zoom In Zoom Out

Sample Name: CCV Acquired: 4/2/2015 15:56:58 Type: QC
Method: 60102007_041712(v212) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2499	40.18	1.995	2.025	2.025	40.40	2.013	2.012	2.018	2.014
Stddev	.0006	.15	.006	.008	.007	.12	.005	.005	.001	.001
%RSD	.2523	.3812	.2835	.3871	.3321	.2953	.2374	.2572	.0383	.0504
#1	.2491	40.03	1.991	2.019	2.018	40.27	2.011	2.008	2.017	2.013
#2	.2501	40.33	1.993	2.034	2.032	40.51	2.010	2.010	2.018	2.014
#3	.2503	40.17	2.001	2.022	2.024	40.43	2.018	2.018	2.018	2.015
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value										
Range										

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	40.81	40.18	40.35	2.032	2.024	40.36	2.021	1.994	1.994	1.998
Stddev	.13	.10	.14	.001	.003	.13	.006	.009	.006	.006
%RSD	.3134	.2536	.3519	.0512	.1668	.3295	.3069	.4580	.2910	.3276
#1	40.69	40.12	40.18	2.032	2.022	40.21	2.019	1.987	1.990	1.993
#2	40.95	40.30	40.44	2.033	2.022	40.48	2.017	1.991	1.991	1.996
#3	40.81	40.14	40.42	2.031	2.028	40.39	2.028	2.004	2.001	2.005
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value										
Range										

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.054	2.006	2.006	2.038	2.019	1.992	2.012
Stddev	.004	.004	.006	.002	.009	.002	.004
%RSD	.1802	.2019	.2987	.1149	.4276	.0748	.2210
#1	2.052	2.007	2.001	2.036	2.013	1.991	2.010
#2	2.052	2.002	2.012	2.039	2.015	1.991	2.009
#3	2.058	2.010	2.003	2.040	2.029	1.994	2.017
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Zoom In Zoom Out

Sample Name: CCV Acquired: 4/2/2015 15:56:58 Type: QC
Method: 60102007_041712(v212) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2606.9	7315.7	44032.	3653.5
Stddev	8.1	11.7	44.	16.0
%RSD	.30968	.16018	.09956	.43682
#1	2611.6	7315.8	44007.	3670.4
#2	2611.5	7327.3	44083.	3651.7
#3	2597.6	7303.9	44008.	3638.6

Zoom In Zoom Out

Sample Name: CCB Acquired: 4/2/2015 16:01:03 Type: QC
Method: 60102007_041712(v212) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0002	.0157	.0005	.0008	.0007	.0161	.0006	.0007	.0007
Stddev	.0004	.0064	.0006	.0004	.0001	.0012	.0002	.0003	.0003
%RSD	234.5	41.02	137.6	55.66	14.73	7.685	35.14	37.11	34.03
#1	.0006	.0095	-.0003	.0003	.0006	.0149	.0008	.0009	.0006
#2	.0002	.0152	.0009	.0010	.0008	.0159	.0006	.0007	.0006
#3	-.0002	.0223	.0007	.0010	.0008	.0174	.0004	.0004	.0010
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0008	.0417	.0213	.0170	.0010	F.0068	.0251	.0006	.0007
Stddev	.0001	.0053	.0073	.0133	.0000	.0018	.0111	.0002	.0007
%RSD	9.474	12.76	34.16	77.85	1.752	26.26	44.09	29.94	104.3
#1	.0007	.0478	.0286	.0023	.0010	.0087	.0133	.0008	.0012
#2	.0009	.0380	.0140	.0279	.0010	.0066	.0353	.0007	.0010
#3	.0009	.0392	.0213	.0209	.0010	.0052	.0269	.0004	-.0001
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit						.0010			
Low Limit						-.0010			

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F.0039	.0008	.0003	F.0014	.0007	F.0029	.0002	.0008	.0006
Stddev	.0004	.0005	.0005	.0004	.0001	.0001	.0002	.0001	.0002
%RSD	9.841	58.57	167.7	29.64	19.83	3.140	129.9	14.78	32.36
#1	.0042	.0012	.0009	.0018	.0006	.0029	.0004	.0009	.0008
#2	.0035	.0009	.0001	.0011	.0008	.0029	.0000	.0007	.0006
#3	.0040	.0003	-.0001	.0011	.0009	.0028	.0002	.0007	.0004
Check ?	Chk Fail	Chk Pass	None	Chk Fail	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit	.0020			.0010		.0020			
Low Limit	-.0020			-.0010		-.0020			

Zoom In Zoom Out

Sample Name: CCB Acquired: 4/2/2015 16:01:03 Type: QC
Method: 60102007_041712(v212) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3101.5	7692.1	46593.	3714.1
Stddev	7.9	5.5	202.	37.3
%RSD	.25364	.07170	.43333	1.0042
#1	3098.8	7687.4	46500.	3733.7
#2	3095.4	7690.7	46454.	3737.6
#3	3110.4	7698.1	46825.	3671.1

Zoom In Zoom Out

Sample Name: CCV Acquired: 4/2/2015 16:45:31 Type: QC
Method: 60102007_041712(v212) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F.2815	40.99	2.106	F2.289	2.138	41.49	1.999	2.006	2.084
Stddev	.0012	.18	.005	.012	.012	.24	.003	.002	.003
%RSD	.4097	.4308	.2325	.5028	.5441	.5894	.1359	.1019	.1292
#1	.2807	40.79	2.105	2.275	2.125	41.20	1.998	2.004	2.083
#2	.2809	41.11	2.102	2.294	2.147	41.63	1.997	2.005	2.086
#3	.2828	41.07	2.111	2.296	2.143	41.62	2.002	2.008	2.081
Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	.2500			2.000					
Range	10.00%			10.00%					

Elem	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.176	43.77	42.71	F44.23	F2.254	2.046	41.33	2.120	1.970
Stddev	.001	.25	.23	.33	.006	.009	.20	.002	.001
%RSD	.0365	.5634	.5455	.7504	.2497	.4182	.4795	.1048	.0481
#1	2.175	43.48	42.44	43.87	2.251	2.037	41.11	2.119	1.969
#2	2.177	43.92	42.85	44.28	2.261	2.046	41.47	2.118	1.970
#3	2.175	43.90	42.84	44.53	2.251	2.054	41.43	2.122	1.971
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value				40.00	2.000				
Range				10.00%	10.00%				

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.060	2.091	2.134	2.167	2.108	F2.212	1.998	F2.231	2.019
Stddev	.005	.002	.003	.003	.011	.001	.003	.004	.003
%RSD	.2249	.0888	.1365	.1496	.5212	.0480	.1594	.1932	.1327
#1	2.056	2.089	2.138	2.165	2.095	2.213	1.996	2.229	2.018
#2	2.059	2.091	2.132	2.165	2.117	2.212	1.996	2.236	2.018
#3	2.065	2.093	2.134	2.171	2.110	2.211	2.001	2.228	2.022
Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Fail	Chk Pass
Value						2.000		2.000	
Range						10.00%		10.00%	

Zoom In Zoom Out

Sample Name: CCV Acquired: 4/2/2015 16:45:31 Type: QC
Method: 60102007_041712(v212) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2609.7	7175.1	40946.	3467.8
Stddev	1.9	5.6	153.	27.2
%RSD	.07414	.07823	.37443	.78318
#1	2610.7	7177.1	41090.	3486.8
#2	2610.8	7179.5	40785.	3479.9
#3	2607.4	7168.8	40961.	3436.7

Zoom In Zoom Out

Sample Name: CCB Acquired: 4/2/2015 16:49:37 Type: QC
Method: 60102007_041712(v212) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0007	.0152	.0003	.0004	.0003	.0085	.0001	.0002	.0001
Stddev	.0004	.0043	.0004	.0000	.0000	.0019	.0000	.0001	.0002
%RSD	66.75	28.37	145.8	4.382	6.655	22.34	34.72	49.81	168.2
#1	.0003	.0104	.0005	.0004	.0003	.0078	.0002	.0002	.0002
#2	.0005	.0165	-.0002	.0004	.0003	.0071	.0001	.0001	.0001
#3	.0012	.0187	.0004	.0004	.0003	.0107	.0001	.0002	-.0001
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0008	.0435	-.0138	-.0047	.0003	F.0040	.0328	.0002	.0004
Stddev	.0001	.0121	.0220	.0350	.0001	.0012	.0106	.0001	.0005
%RSD	11.63	27.81	159.6	745.1	22.77	30.76	32.40	27.40	128.8
#1	.0007	.0527	.0067	.0254	.0004	.0052	.0264	.0003	.0004
#2	.0009	.0481	-.0111	.0036	.0003	.0039	.0451	.0002	.0010
#3	.0009	.0298	-.0369	-.0431	.0003	.0028	.0270	.0003	-.0001
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit						.0010			
Low Limit						-.0010			

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F.0021	.0006	.0003	.0005	.0002	.0019	.0000	.0001	.0001
Stddev	.0002	.0012	.0003	.0000	.0001	.0002	.000	.0002	.0001
%RSD	8.992	200.4	104.7	6.568	48.34	10.09	635.9	289.8	64.21
#1	.0021	.0020	.0003	.0005	.0001	.0021	-.0001	.0002	.0001
#2	.0022	.0000	.0000	.0005	.0003	.0018	-.0003	.0002	.0001
#3	.0019	-.0002	.0006	.0004	.0003	.0018	.0002	-.0001	.0000
Check ?	Chk Fail	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	.0020								
Low Limit	-.0020								

Zoom In Zoom Out

Sample Name: CCB Acquired: 4/2/2015 16:49:37 Type: QC
Method: 60102007_041712(v212) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3126.5	7571.6	43381.	3521.2
Stddev	2.8	5.6	234.	15.8
%RSD	.08896	.07462	.53935	.44963
#1	3126.3	7578.2	43446.	3532.2
#2	3123.9	7568.2	43576.	3503.1
#3	3129.4	7568.6	43122.	3528.3

Zoom In Zoom Out

Sample Name: CCV Acquired: 4/2/2015 17:35:55 Type: QC
Method: 60102007_041712(v212) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F.2770	40.49	2.084	F2.249	2.105	41.02	1.992	1.995	2.076
Stddev	.0008	.01	.001	.003	.001	.07	.001	.001	.004
%RSD	.2961	.0354	.0295	.1294	.0481	.1675	.0449	.0503	.1916
#1	.2778	40.48	2.084	2.250	2.105	40.95	1.991	1.993	2.077
#2	.2771	40.50	2.084	2.246	2.105	41.08	1.991	1.995	2.078
#3	.2761	40.50	2.083	2.251	2.103	41.05	1.993	1.995	2.071
Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	.2500			2.000					
Range	10.00%			10.00%					

Elem	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.143	43.14	42.19	43.49	F2.242	2.030	40.84	2.103	1.973
Stddev	.006	.06	.11	.31	.009	.008	.03	.002	.004
%RSD	.2990	.1348	.2689	.7161	.4151	.3896	.0807	.1097	.1762
#1	2.150	43.08	42.25	43.13	2.249	2.022	40.88	2.101	1.977
#2	2.138	43.14	42.26	43.71	2.246	2.032	40.83	2.105	1.970
#3	2.140	43.20	42.06	43.63	2.232	2.037	40.82	2.105	1.971
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					2.000				
Range					10.00%				

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.033	2.070	2.107	2.138	2.079	2.195	1.994	2.197	2.018
Stddev	.003	.001	.002	.003	.003	.006	.002	.008	.002
%RSD	.1600	.0581	.1114	.1358	.1573	.2884	.1220	.3778	.1012
#1	2.031	2.069	2.105	2.135	2.083	2.197	1.997	2.205	2.018
#2	2.037	2.071	2.109	2.139	2.078	2.201	1.992	2.196	2.017
#3	2.031	2.069	2.106	2.140	2.077	2.188	1.993	2.189	2.021
Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value									
Range									

Zoom In
Zoom Out

Sample Name: CCV Acquired: 4/2/2015 17:35:55 Type: QC
Method: 60102007_041712(v212) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2626.5	7245.9	41336.	3502.4
Stddev	4.3	4.9	238.	32.8
%RSD	.16498	.06819	.57586	.93609
#1	2621.8	7240.9	41351.	3540.3
#2	2630.2	7250.8	41091.	3483.7
#3	2627.6	7246.1	41566.	3483.3

Zoom In
Zoom Out

Sample Name: CCB Acquired: 4/2/2015 17:40:01 Type: QC
Method: 60102007_041712(v212) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0005	.0097	.0005	.0002	.0002	.0066	.0001	.0001	.0000
Stddev	.0001	.0056	.0005	.0004	.0001	.0030	.0001	.0001	.000
%RSD	11.08	57.06	120.5	167.8	60.80	45.21	126.0	48.96	3161.
#1	.0006	.0140	.0009	.0004	.0001	.0034	.0002	.0002	-.0001
#2	.0005	.0118	.0006	-.0002	.0003	.0072	.0000	.0001	-.0002
#3	.0005	.0034	-.0001	.0004	.0003	.0092	.0000	.0001	.0003
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0008	.0485	-.0028	-.0094	.0004	F.0045	.0207	.0002	.0007
Stddev	.0001	.0107	.0264	.0114	.0001	.0013	.0028	.0002	.0003
%RSD	13.21	22.11	936.9	120.5	16.94	29.46	13.70	112.3	43.90
#1	.0009	.0586	.0208	-.0080	.0004	.0059	.0230	.0002	.0009
#2	.0007	.0499	-.0313	-.0215	.0003	.0043	.0216	.0003	.0008
#3	.0008	.0372	.0020	.0011	.0003	.0033	.0175	.0000	.0003
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit						.0010			
Low Limit						-.0010			

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0016	.0003	-.0004	.0006	.0002	.0016	.0001	.0003	.0001
Stddev	.0017	.0010	.0000	.0002	.0001	.0002	.0003	.0002	.0000
%RSD	103.9	379.0	9.715	31.20	55.31	10.26	304.1	94.85	44.30
#1	.0036	.0011	-.0004	.0007	.0001	.0018	.0003	.0004	.0001
#2	.0005	-.0008	-.0004	.0007	.0003	.0016	-.0002	.0004	.0001
#3	.0009	.0004	-.0004	.0004	.0001	.0015	.0001	.0000	.0000
Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Zoom In
Zoom Out

Sample Name: CCB Acquired: 4/2/2015 17:40:01 Type: QC
Method: 60102007_041712(v212) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3139.4	7629.3	43959.	3574.5
Stddev	6.2	5.8	255.	10.5
%RSD	.19617	.07563	.57973	.29462
#1	3134.3	7623.7	43691.	3575.7
#2	3146.3	7635.2	44199.	3563.4
#3	3137.8	7629.1	43986.	3584.3

Zoom In
Zoom Out

Sample Name: CCV Acquired: 4/2/2015 18:25:50 Type: QC
Method: 60102007_041712(v212) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F.2810	40.85	2.112	F2.280	2.133	41.45	1.999	2.002	2.085
Stddev	.0006	.08	.003	.008	.005	.10	.001	.001	.004
%RSD	.2035	.1892	.1399	.3491	.2326	.2338	.0519	.0283	.1686
#1	.2816	40.79	2.109	2.276	2.129	41.36	1.998	2.002	2.089
#2	.2805	40.94	2.115	2.290	2.139	41.55	2.000	2.002	2.083
#3	.2809	40.82	2.111	2.276	2.132	41.43	1.998	2.001	2.082
Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	.2500			2.000					
Range	10.00%			10.00%					

Elem	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.176	43.55	42.98	F44.11	F2.251	2.042	41.49	2.122	1.974
Stddev	.000	.15	.10	.09	.014	.008	.12	.001	.002
%RSD	.0131	.3427	.2318	.2120	.6193	.4022	.3012	.0390	.0957
#1	2.176	43.38	42.94	44.04	2.265	2.033	41.41	2.122	1.974
#2	2.176	43.67	43.09	44.22	2.251	2.044	41.63	2.122	1.973
#3	2.176	43.59	42.91	44.09	2.237	2.049	41.42	2.121	1.977
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value				40.00	2.000				
Range				10.00%	10.00%				

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.056	2.098	2.131	2.172	2.101	F2.212	1.995	F2.232	2.026
Stddev	.001	.002	.003	.002	.008	.004	.002	.005	.002
%RSD	.0627	.0965	.1610	.0791	.3840	.1888	.1083	.2346	.0802
#1	2.055	2.096	2.133	2.173	2.095	2.215	1.997	2.237	2.026
#2	2.057	2.100	2.132	2.172	2.110	2.214	1.993	2.234	2.027
#3	2.055	2.098	2.127	2.170	2.099	2.207	1.994	2.227	2.024
Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Fail	Chk Pass
Value						2.000		2.000	
Range						10.00%		10.00%	

Zoom In Zoom Out

Sample Name: CCV Acquired: 4/2/2015 18:25:50 Type: QC
Method: 60102007_041712(v212) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2636.1	7248.8	41388.	3476.1
Stddev	1.2	7.3	111.	13.5
%RSD	.04737	.10067	.26809	.38937
#1	2636.7	7250.9	41268.	3468.0
#2	2637.0	7240.6	41411.	3491.7
#3	2634.7	7254.7	41486.	3468.5

Zoom In Zoom Out

Sample Name: CCB Acquired: 4/2/2015 18:29:57 Type: QC
Method: 60102007_041712(v212) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0008	.0088	.0008	.0009	.0007	.0203	.0005	.0005	.0008
Stddev	.0003	.0014	.0008	.0005	.0001	.0057	.0002	.0002	.0001
%RSD	44.23	15.76	99.14	57.89	14.99	27.87	32.15	38.66	13.94
#1	.0007	.0104	.0014	.0005	.0006	.0151	.0007	.0007	.0008
#2	.0004	.0083	.0010	.0006	.0007	.0195	.0005	.0004	.0009
#3	.0011	.0077	-.0001	.0014	.0008	.0264	.0004	.0003	.0007
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0018	F.0520	.0070	.0012	F.0010	F.0048	.0123	.0007	.0008
Stddev	.0002	.0086	.0205	.0084	.0001	.0014	.0057	.0003	.0001
%RSD	10.55	16.49	293.2	708.0	5.243	29.90	46.02	43.83	13.96
#1	.0021	.0611	.0144	.0067	.0010	.0063	.0065	.0010	.0010
#2	.0017	.0510	-.0162	-.0085	.0010	.0047	.0125	.0008	.0007
#3	.0017	.0440	.0228	.0053	.0011	.0034	.0178	.0004	.0008
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit		.0500			.0010	.0010			
Low Limit		-.0500			-.0010	-.0010			

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0017	.0014	.0003	.0009	.0006	F.0027	.0010	.0008	.0005
Stddev	.0009	.0003	.0006	.0000	.0001	.0002	.0004	.0002	.0001
%RSD	51.16	23.72	214.6	5.316	17.42	5.757	43.26	22.70	26.70
#1	.0027	.0014	.0010	.0009	.0005	.0028	.0015	.0007	.0006
#2	.0017	.0011	.0000	.0008	.0006	.0028	.0009	.0008	.0005
#3	.0009	.0017	-.0001	.0009	.0008	.0025	.0006	.0011	.0004
Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit						.0020			
Low Limit						-.0020			

Zoom In Zoom Out

Sample Name: CCB Acquired: 4/2/2015 18:29:57 Type: QC
Method: 60102007_041712(v212) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3153.5	7613.5	43568.	3501.2
Stddev	4.6	8.7	231.	21.1
%RSD	.14542	.11481	.53078	.60396
#1	3158.7	7619.4	43835.	3502.2
#2	3151.5	7603.5	43432.	3521.8
#3	3150.2	7617.7	43436.	3479.6

Zoom In Zoom Out

Sample Name: CCV Acquired: 4/2/2015 19:15:50 Type: QC
Method: 60102007_041712(v212) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F.2809	40.67	2.110	F2.291	2.128	41.19	1.995	1.999	2.074
Stddev	.0006	.12	.004	.003	.003	.13	.002	.001	.004
%RSD	.1998	.3028	.1673	.1478	.1477	.3036	.1122	.0640	.1723
#1	.2802	40.55	2.113	2.293	2.125	41.06	1.995	1.999	2.072
#2	.2811	40.80	2.106	2.293	2.129	41.31	1.993	1.997	2.078
#3	.2813	40.66	2.112	2.288	2.131	41.20	1.998	2.000	2.072
Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	.2500			2.000					
Range	10.00%			10.00%					

Elem	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.173	43.38	43.09	43.93	F2.255	2.040	41.10	2.119	1.966
Stddev	.001	.10	.07	.15	.003	.007	.06	.001	.002
%RSD	.0643	.2393	.1559	.3376	.1455	.3469	.1357	.0609	.1244
#1	2.173	43.26	43.03	43.76	2.255	2.034	41.04	2.120	1.967
#2	2.175	43.44	43.16	44.03	2.259	2.039	41.15	2.118	1.963
#3	2.172	43.44	43.07	44.02	2.252	2.048	41.12	2.119	1.967
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					2.000				
Range					10.00%				

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.053	2.094	2.131	2.168	2.104	F2.211	1.988	F2.235	2.021
Stddev	.003	.004	.003	.004	.003	.005	.005	.004	.002
%RSD	.1610	.2108	.1209	.1862	.1333	.2129	.2626	.1927	.0753
#1	2.057	2.097	2.134	2.173	2.101	2.206	1.990	2.231	2.020
#2	2.051	2.089	2.129	2.166	2.106	2.216	1.982	2.239	2.019
#3	2.051	2.095	2.131	2.165	2.105	2.210	1.992	2.237	2.022
Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Fail	Chk Pass
Value						2.000		2.000	
Range						10.00%		10.00%	

Zoom In Zoom Out

Sample Name: CCV Acquired: 4/2/2015 19:15:50 Type: QC
Method: 60102007_041712(v212) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2647.7	7276.4	41638.	3509.4
Stddev	1.5	3.4	148.	23.1
%RSD	.05783	.04677	.35457	.65915
#1	2647.0	7279.8	41730.	3531.7
#2	2649.4	7276.2	41468.	3485.5
#3	2646.6	7273.0	41716.	3510.9

Zoom In Zoom Out

Sample Name: CCB Acquired: 4/2/2015 19:19:56 Type: QC
Method: 60102007_041712(v212) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0007	.0038	.0010	.0002	.0002	.0122	.0002	.0002	.0003
Stddev	.0004	.0082	.0002	.0001	.0002	.0046	.0001	.0001	.0000
%RSD	54.98	217.5	22.63	36.18	78.32	37.75	44.92	28.14	12.52
#1	.0003	-.0034	.0012	.0003	.0000	.0119	.0003	.0002	.0003
#2	.0011	.0128	.0007	.0002	.0003	.0169	.0002	.0002	.0003
#3	.0008	.0020	.0010	.0002	.0004	.0077	.0001	.0001	.0003
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0011	.0431	-.0025	.0106	.0004	F.0046	.0255	.0004	.0004
Stddev	.0001	.0121	.0086	.0234	.0000	.0015	.0067	.0001	.0003
%RSD	10.97	28.05	338.5	221.7	8.493	31.60	26.33	19.55	72.76
#1	.0009	.0569	.0057	-.0018	.0005	.0062	.0259	.0005	.0007
#2	.0012	.0382	-.0018	-.0041	.0004	.0045	.0186	.0003	.0001
#3	.0011	.0343	-.0115	.0375	.0004	.0033	.0320	.0004	.0004
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit						.0010			
Low Limit						-.0010			

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0009	.0007	.0006	.0008	.0001	F.0022	.0003	.0004	.0002
Stddev	.0015	.0016	.0003	.0002	.0001	.0001	.0003	.0001	.0001
%RSD	161.2	230.9	45.44	31.67	72.34	6.805	73.89	29.05	72.31
#1	.0024	.0015	.0009	.0011	.0000	.0023	.0001	.0003	.0003
#2	.0010	-.0012	.0005	.0007	.0001	.0023	.0006	.0004	.0001
#3	-.0006	.0018	.0004	.0006	.0002	.0020	.0004	.0005	.0001
Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit						.0020			
Low Limit						-.0020			

Zoom In Zoom Out

Sample Name: CCB Acquired: 4/2/2015 19:19:56 Type: QC
Method: 60102007_041712(v212) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3144.1	7608.0	43630.	3484.8
Stddev	3.4	19.9	298.	17.3
%RSD	.10735	.26099	.68304	.49581
#1	3148.0	7628.7	43865.	3504.6
#2	3141.9	7606.2	43295.	3477.2
#3	3142.5	7589.1	43730.	3472.7

Zoom In Zoom Out

Sample Name: CCV Acquired: 4/2/2015 20:06:27 Type: QC
Method: 60102007_041712(v212) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F.2759	40.76	2.101	F2.240	2.107	41.20	2.012	2.015	2.079
Stddev	.0007	.05	.002	.010	.004	.02	.002	.003	.007
%RSD	.2604	.1298	.1075	.4634	.2119	.0530	.0882	.1224	.3239
#1	.2767	40.70	2.098	2.230	2.102	41.21	2.011	2.013	2.087
#2	.2757	40.76	2.103	2.250	2.108	41.21	2.012	2.015	2.073
#3	.2753	40.81	2.101	2.239	2.110	41.17	2.014	2.018	2.078
Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	.2500			2.000					
Range	10.00%			10.00%					

Elem	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.145	42.87	42.71	43.21	F2.218	2.052	41.35	2.118	1.987
Stddev	.002	.14	.11	.17	.015	.010	.04	.004	.001
%RSD	.0963	.3203	.2459	.3939	.6722	.4975	.1056	.1758	.0616
#1	2.147	42.76	42.77	43.21	2.227	2.042	41.38	2.114	1.989
#2	2.144	43.02	42.77	43.38	2.200	2.054	41.37	2.119	1.986
#3	2.143	42.83	42.59	43.04	2.225	2.062	41.30	2.122	1.987
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					2.000				
Range					10.00%				

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.058	2.091	2.134	2.148	2.089	2.194	2.006	2.199	2.036
Stddev	.002	.003	.003	.005	.004	.004	.002	.004	.003
%RSD	.0827	.1609	.1551	.2397	.2080	.1665	.0842	.1978	.1505
#1	2.056	2.088	2.130	2.143	2.085	2.197	2.005	2.204	2.033
#2	2.059	2.090	2.137	2.149	2.093	2.190	2.005	2.196	2.036
#3	2.059	2.094	2.133	2.153	2.089	2.195	2.008	2.198	2.039
Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value									
Range									

Zoom In
Zoom Out

Sample Name: CCV Acquired: 4/2/2015 20:06:27 Type: QC
Method: 60102007_041712(v212) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2631.2	7264.6	41976.	3471.0
Stddev	2.0	5.7	224.	31.0
%RSD	.07565	.07877	.53417	.89361
#1	2630.7	7270.1	41734.	3439.2
#2	2633.4	7265.1	42176.	3472.6
#3	2629.5	7258.7	42019.	3501.2

Zoom In
Zoom Out

Sample Name: CCB Acquired: 4/2/2015 20:10:33 Type: QC
Method: 60102007_041712(v212) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0005	.0043	.0006	.0003	.0001	.0098	.0002	.0001	.0000
Stddev	.0001	.0093	.0003	.0001	.0001	.0039	.0000	.0001	.0002
%RSD	28.66	218.1	56.27	41.69	48.00	39.36	22.13	60.28	762.5
#1	.0005	.0067	.0002	.0005	.0001	.0054	.0002	.0002	.0001
#2	.0006	.0122	.0008	.0002	.0002	.0123	.0002	.0002	.0002
#3	.0003	-.0060	.0007	.0003	.0001	.0118	.0001	.0001	-.0002
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0007	.0436	.0453	.0099	.0003	F.0043	.0146	.0003	.0006
Stddev	.0001	.0155	.0060	.0287	.0000	.0013	.0040	.0002	.0004
%RSD	13.40	35.44	13.33	291.1	7.079	30.88	27.26	66.79	65.79
#1	.0008	.0568	.0403	.0159	.0004	.0058	.0106	.0006	.0006
#2	.0006	.0474	.0437	-.0214	.0003	.0041	.0185	.0002	.0011
#3	.0008	.0266	.0520	.0351	.0003	.0031	.0147	.0002	.0003
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit						.0010			
Low Limit						-.0010			

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0012	-.0002	-.0004	.0005	.0001	.0019	.0004	.0003	.0001
Stddev	.0006	.0003	.0000	.0001	.0000	.0002	.0008	.0001	.0000
%RSD	51.18	188.2	6.710	16.61	7.313	12.01	235.8	35.31	25.06
#1	.0013	-.0001	-.0004	.0005	.0001	.0022	.0013	.0002	.0001
#2	.0017	-.0006	-.0004	.0004	.0001	.0019	-.0001	.0004	.0002
#3	.0005	.0001	-.0004	.0006	.0001	.0017	-.0001	.0003	.0001
Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Zoom In
Zoom Out

Sample Name: CCB Acquired: 4/2/2015 20:10:33 Type: QC
Method: 60102007_041712(v212) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3156.4	7662.6	44744.	3539.2
Stddev	3.6	5.8	61.	17.8
%RSD	.11312	.07633	.13648	.50263
#1	3154.1	7661.1	44714.	3536.8
#2	3154.6	7657.7	44815.	3558.0
#3	3160.5	7669.1	44705.	3522.6

Zoom In
Zoom Out

Sample Name: MP28747-MB1 Acquired: 4/2/2015 20:18:56 Type: QC
Method: 60102007_041712(v212) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0005	.0102	-.0004	.0000	.0000	.0363	-.0001	-.0001	.0001	.0004
Stddev	.0002	.0047	.0004	.000	.0001	.0031	.0000	.0000	.0001	.0001
%RSD	32.43	46.04	103.4	545.3	428.0	8.661	43.70	20.10	153.5	21.05
#1	.0006	.0053	-.0008	.0002	.0000	.0358	.0000	-.0002	.0000	.0004
#2	.0003	.0147	-.0001	-.0003	.0001	.0396	-.0001	-.0001	.0001	.0004
#3	.0005	.0105	-.0002	.0000	-.0001	.0333	-.0001	-.0001	.0001	.0005
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0077	.0264	.0258	.0000	-.0002	.0123	-.0001	.0001	-.0008	.0000
Stddev	.0041	.0277	.0182	.0000	.0000	.0064	.0001	.0005	.0006	.0006
%RSD	53.05	105.0	70.40	98.41	10.48	52.07	57.73	674.2	81.94	5071.
#1	.0116	.0057	.0384	.0000	-.0002	.0134	-.0001	.0006	-.0001	.0004
#2	.0034	.0156	.0342	.0000	-.0002	.0054	-.0001	-.0004	-.0009	.0003
#3	.0080	.0579	.0050	.0000	-.0002	.0180	.0000	.0001	-.0013	-.0007
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0204	-.0001	.0000	-.0002	-.0006	-.0003	.0005
Stddev	.0006	.0001	.000	.0000	.0002	.0002	.0000
%RSD	2.948	64.86	510.5	27.32	39.27	73.35	5.383
#1	.0198	-.0002	-.0001	-.0001	-.0008	-.0004	.0005
#2	.0207	.0000	-.0001	-.0002	-.0003	-.0004	.0005
#3	.0209	-.0002	.0001	-.0002	-.0007	.0000	.0004
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Zoom In Zoom Out

Sample Name: MP28747-MB1 Acquired: 4/2/2015 20:18:56 Type: QC
Method: 60102007_041712(v212) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3121.6	7619.2	44536.	3542.2
Stddev	7.6	9.8	42.	21.0
%RSD	.24383	.12832	.09486	.59170
#1	3114.6	7611.3	44560.	3522.6
#2	3129.7	7630.1	44487.	3564.3
#3	3120.5	7616.2	44560.	3539.7

Zoom In Zoom Out

Sample Name: MP28747-B1 Acquired: 4/2/2015 20:23:10 Type: QC
Method: 60102007_041712(v212) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0561	28.16	2.148	2.363	.0555	26.52	.0507	.5155	.2183	.2823
Stddev	.0005	.09	.002	.011	.0003	.12	.0001	.0004	.0013	.0006
%RSD	.9644	.3329	.0754	.4647	.4716	.4536	.1689	.0848	.6139	.2120
#1	.0560	28.27	2.149	2.374	.0558	26.63	.0506	.5150	.2187	.2822
#2	.0567	28.09	2.148	2.352	.0553	26.39	.0508	.5159	.2168	.2818
#3	.0556	28.13	2.146	2.365	.0554	26.54	.0507	.5155	.2194	.2830
Check ?	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass
Value																						
Range																						

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	28.67	27.72	27.66	.5823	.5153	26.74	.5522	.4917	.5231	2.118
Stddev	.12	.06	.13	.0016	.0005	.11	.0004	.0010	.0024	.002
%RSD	.4204	.2163	.4543	.2705	.1059	.4085	.0814	.2097	.4629	.1091
#1	28.75	27.77	27.75	.5837	.5156	26.86	.5517	.4906	.5255	2.120
#2	28.53	27.65	27.51	.5806	.5156	26.64	.5524	.4927	.5207	2.116
#3	28.73	27.73	27.70	.5827	.5147	26.73	.5525	.4919	.5232	2.118
Check ?	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass
Value																						
Range																						

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0270	.5639	.5308	.5495	1.980	.5568	.5194
Stddev	.0004	.0010	.0017	.0011	.004	.0008	.0014
%RSD	1.349	.1765	.3175	.1924	.2191	.1499	.2610
#1	.0266	.5630	.5325	.5503	1.976	.5577	.5179
#2	.0274	.5649	.5292	.5483	1.984	.5560	.5198
#3	.0270	.5639	.5307	.5499	1.978	.5566	.5205
Check ?	None	Chk	Pass	None	None	Chk	Pass	Chk	Pass	Chk	Pass
Value											
Range											

Zoom In Zoom Out

Sample Name: MP28747-B1 Acquired: 4/2/2015 20:23:10 Type: QC
Method: 60102007_041712(v212) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2756.0	7324.2	41862.	3447.3
Stddev	7.7	8.5	150.	29.2
%RSD	.27847	.11592	.35944	.84637
#1	2761.5	7331.9	41747.	3415.1
#2	2747.2	7315.1	42032.	3472.1
#3	2759.1	7325.5	41806.	3454.5

Zoom In Zoom Out

Sample Name: FA23224-1 Acquired: 4/2/2015 20:27:10 Type: Unk
Method: 60102007_041712(v212) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	.0004	.6149	.0000	.0085	.0000	24.25	-.0001	.0004	.0009	.0006
Stddev	.0001	.0098	.001	.0001	.000	.08	.0000	.0000	.0001	.0001
%RSD	14.47	1.593	1355.	1.465	113.7	.3389	40.48	11.76	14.10	19.67
#1	.0005	.6037	-.0004	.0084	-.0001	24.27	-.0001	.0004	.0009	.0005
#2	.0004	.6193	-.0004	.0086	.0000	24.31	.0000	.0003	.0008	.0008
#3	.0004	.6218	.0006	.0085	.0000	24.15	.0000	.0004	.0010	.0006

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	.0704	.3541	1.067	.0005	.0005	1.060	.0001	.0000	.0007	.0023
Stddev	.0084	.0165	.024	.0000	.0001	.003	.0000	.0002	.0004	.0005
%RSD	11.92	4.661	2.242	8.434	30.31	.2368	55.25	538.7	60.44	22.93
#1	.0778	.3632	1.072	.0005	.0006	1.063	.0000	-.0001	.0010	.0017
#2	.0722	.3351	1.088	.0004	.0004	1.061	.0001	-.0001	.0010	.0024
#3	.0613	.3640	1.041	.0005	.0005	1.058	.0001	.0003	.0002	.0028

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	1.180	-.0002	.0553	.0049	.0007	.0060	.0066
Stddev	.005	.0000	.0003	.0001	.0003	.0002	.0001
%RSD	.4402	10.76	.4716	2.826	40.25	3.161	1.301
#1	1.174	-.0003	.0553	.0050	.0005	.0059	.0066
#2	1.182	-.0002	.0556	.0047	.0006	.0062	.0067
#3	1.184	-.0002	.0551	.0049	.0010	.0059	.0066

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	3046.7	7585.8	44189.	3531.1
Stddev	6.9	12.0	152.	38.6
%RSD	.22709	.15807	.34305	1.0919
#1	3039.8	7573.7	44040.	3503.7
#2	3046.7	7586.0	44343.	3514.4
#3	3053.6	7597.7	44186.	3575.2

Zoom In
Zoom Out

Sample Name: MP28747-D1 Acquired: 4/2/2015 20:31:20 Type: Unk
Method: 60102007_041712(v212) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	.0005	.6173	-.0002	.0083	.0000	24.11	.0000	.0002	.0011	.0002
Stddev	.0002	.0036	.0004	.0003	.0001	.07	.000	.0001	.0001	.0004
%RSD	46.76	.5779	222.7	3.704	308.7	.3092	138.2	25.02	8.866	195.1
#1	.0008	.6163	-.0006	.0080	.0000	24.04	-.0001	.0002	.0012	.0003
#2	.0003	.6213	.0001	.0086	.0001	24.10	.0000	.0003	.0010	-.0002
#3	.0006	.6144	.0000	.0084	.0000	24.19	.0000	.0002	.0012	.0005

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	.0434	.3204	1.039	.0005	.0002	1.043	-.0001	.0003	.0003	.0016
Stddev	.0035	.0245	.024	.0000	.0001	.013	.0001	.0003	.0003	.0014
%RSD	8.044	7.637	2.300	5.615	40.06	1.202	97.18	96.41	84.74	85.00
#1	.0397	.3061	1.013	.0005	.0003	1.029	-.0003	.0002	.0002	.0012
#2	.0438	.3064	1.059	.0005	.0002	1.046	.0000	.0006	.0006	.0005
#3	.0466	.3486	1.046	.0005	.0002	1.054	-.0001	.0000	.0001	.0032

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	1.169	-.0002	.0552	.0043	.0001	.0059	.0066
Stddev	.001	.0001	.0003	.0003	.0003	.0001	.0000
%RSD	.1232	32.34	.4876	7.767	253.6	1.546	.5475
#1	1.168	-.0002	.0549	.0044	.0005	.0060	.0066
#2	1.170	-.0001	.0552	.0046	.0000	.0058	.0066
#3	1.169	-.0002	.0554	.0040	-.0001	.0058	.0066

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	3031.3	7568.9	43956.	3556.7
Stddev	7.1	14.1	192.	14.9
%RSD	.23585	.18568	.43696	.41954
#1	3025.6	7556.5	44120.	3568.0
#2	3028.9	7566.0	44004.	3562.4
#3	3039.3	7584.2	43745.	3539.8

Zoom In
Zoom Out

Sample Name: MP28747-SD1 Acquired: 4/2/2015 20:35:32 Type: Unk
Method: 60102007_041712(v212) Mode: CONC Corr. Factor: 5.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	.0031	.6510	.0022	.0111	-.0003	26.04	-.0003	.0001	.0009	.0037
Stddev	.0017	.0468	.0009	.0008	.0006	.09	.0002	.0004	.0005	.0007
%RSD	53.57	7.189	42.16	7.150	220.2	.3555	51.09	268.7	53.66	17.37
#1	.0039	.6394	.0033	.0117	.0003	25.94	-.0002	.0002	.0006	.0045
#2	.0012	.7025	.0019	.0102	-.0008	26.07	-.0003	.0005	.0014	.0036
#3	.0041	.6110	.0015	.0115	-.0002	26.12	-.0005	-.0002	.0006	.0032

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	.0244	.3994	1.153	.0005	-.0021	1.065	-.0007	.0020	-.0010	.0075
Stddev	.0171	.1018	.079	.0001	.0003	.033	.0005	.0012	.0018	.0092
%RSD	69.76	25.48	6.854	26.31	12.88	3.119	79.86	58.07	173.7	122.7
#1	.0076	.4604	1.196	.0006	-.0018	1.054	-.0012	.0012	-.0022	.0076
#2	.0417	.4559	1.201	.0004	-.0021	1.039	-.0002	.0014	-.0018	-.0017
#3	.0240	.2819	1.062	.0004	-.0023	1.102	-.0005	.0033	.0010	.0167

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	1.235	-.0010	.0574	.0045	.0002	.0055	.0083
Stddev	.008	.0007	.0006	.0006	.0022	.0010	.0001
%RSD	.6206	75.43	.9681	12.27	1168.	18.87	1.118
#1	1.244	-.0005	.0580	.0044	.0026	.0066	.0084
#2	1.230	-.0018	.0570	.0051	-.0016	.0050	.0083
#3	1.232	-.0006	.0572	.0040	-.0004	.0048	.0082

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	3144.5	7634.6	43858.	3505.5
Stddev	5.0	14.6	130.	13.9
%RSD	.15843	.19105	.29698	.39621
#1	3139.7	7623.5	43924.	3518.1
#2	3144.1	7629.2	43942.	3507.9
#3	3149.7	7651.1	43708.	3490.6

Zoom In
Zoom Out

Sample Name: MP28747-PS1 Acquired: 4/2/2015 20:39:44 Type: Unk
Method: 60102007_041712(v212) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	.0555	3.310	.1146	.3116	.0567	29.31	.0542	.0554	.0574	.1173
Stddev	.0003	.016	.0004	.0015	.0001	.04	.0001	.0001	.0001	.0003
%RSD	.5205	.4902	.3690	.4766	.1639	.1405	.1431	.1014	.1833	.2787
#1	.0556	3.326	.1146	.3130	.0566	29.31	.0542	.0555	.0573	.1177
#2	.0558	3.309	.1142	.3116	.0568	29.34	.0543	.0554	.0575	.1172
#3	.0552	3.294	.1151	.3101	.0567	29.26	.0542	.0554	.0574	.1171

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	3.381	11.60	6.515	.0617	.1115	12.44	.1181	.0496	.1122	.1102
Stddev	.007	.00	.031	.0001	.0004	.04	.0001	.0001	.0004	.0008
%RSD	.1990	.0283	.4813	.1140	.3209	.3240	.1187	.1815	.3708	.7234
#1	3.382	11.60	6.478	.0616	.1120	12.46	.1182	.0496	.1120	.1111
#2	3.388	11.60	6.535	.0617	.1113	12.45	.1180	.0497	.1119	.1098
#3	3.374	11.60	6.530	.0617	.1114	12.39	.1181	.0495	.1126	.1096

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	1.194	.0582	.1098	.1198	.1038	.0652	.2791
Stddev	.002	.0001	.0003	.0004	.0008	.0001	.0001
%RSD	.1617	.1259	.2320	.3073	.7639	.1589	.0188
#1	1.196	.0582	.1097	.1195	.1044	.0652	.2791
#2	1.195	.0583	.1101	.1202	.1029	.0653	.2792
#3	1.192	.0582	.1096	.1197	.1042	.0651	.2791

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	2877.9	7351.3	42837.	3484.0
Stddev	7.1	17.1	58.	10.4
%RSD	.24775	.23295	.13481	.29970
#1	2870.6	7331.9	42903.	3473.3
#2	2878.2	7357.4	42797.	3494.2
#3	2884.8	7364.5	42811.	3484.6

Zoom In
Zoom Out

Sample Name: MP28747-S1 Acquired: 4/2/2015 20:43:50 Type: Unk
Method: 60102007_041712(v212) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	.0559	28.30	2.130	2.349	.0549	49.57	.0494	.5016	.2146	.2779
Stddev	.0004	.11	.001	.003	.0002	.13	.0001	.0001	.0004	.0007
%RSD	.6287	.3977	.0549	.1455	.4001	.2599	.1371	.0280	.1669	.2404
#1	.0557	28.18	2.130	2.347	.0546	49.43	.0494	.5014	.2150	.2773
#2	.0557	28.40	2.132	2.353	.0550	49.68	.0494	.5016	.2142	.2786
#3	.0563	28.33	2.130	2.348	.0550	49.60	.0493	.5017	.2146	.2776

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	28.19	27.77	28.09	.5732	.5027	27.42	.5368	.4871	.5189	2.094
Stddev	.09	.07	.13	.0013	.0004	.08	.0006	.0005	.0016	.001
%RSD	.3182	.2457	.4693	.2286	.0836	.2793	.1047	.1050	.3034	.0424
#1	28.10	27.73	27.94	.5718	.5025	27.34	.5362	.4866	.5202	2.094
#2	28.27	27.85	28.19	.5743	.5032	27.49	.5373	.4877	.5172	2.094
#3	28.21	27.74	28.13	.5735	.5024	27.44	.5369	.4871	.5194	2.095

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	1.168	.5492	.5765	.5426	1.959	.5574	.5094
Stddev	.001	.0018	.0010	.0019	.003	.0010	.0012
%RSD	.1015	.3312	.1768	.3551	.1639	.1879	.2408
#1	1.169	.5473	.5754	.5404	1.956	.5563	.5081
#2	1.169	.5493	.5771	.5441	1.962	.5584	.5095
#3	1.167	.5510	.5771	.5431	1.961	.5574	.5105

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	2730.3	7390.7	42181.	3517.8
Stddev	5.1	7.6	75.	12.4
%RSD	.18623	.10313	.17845	.35139
#1	2734.3	7395.6	42261.	3532.1
#2	2724.6	7381.9	42173.	3509.6
#3	2732.2	7394.6	42111.	3511.9

Zoom In Zoom Out

Sample Name: MP28747-S2 Acquired: 4/2/2015 20:47:49 Type: Unk
Method: 60102007_041712(v212) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	.0561	28.28	2.146	2.351	.0548	49.83	.0498	.5055	.2177	.2815
Stddev	.0002	.02	.003	.007	.0001	.05	.0001	.0004	.0002	.0012
%RSD	.3087	.0628	.1148	.2969	.1846	.1095	.1566	.0863	.1063	.4174
#1	.0559	28.26	2.147	2.343	.0548	49.81	.0498	.5054	.2175	.2803
#2	.0561	28.30	2.147	2.352	.0549	49.78	.0498	.5060	.2179	.2815
#3	.0562	28.28	2.143	2.357	.0547	49.89	.0497	.5052	.2178	.2827

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	28.18	27.72	28.27	.5834	.5094	27.47	.5424	.4939	.5229	2.099
Stddev	.08	.06	.14	.0037	.0008	.01	.0007	.0013	.0013	.002
%RSD	.2756	.2132	.5032	.6256	.1661	.0365	.1241	.2535	.2496	.1154
#1	28.11	27.76	28.29	.5808	.5084	27.48	.5423	.4950	.5220	2.100
#2	28.17	27.75	28.12	.5819	.5101	27.46	.5431	.4926	.5244	2.100
#3	28.26	27.65	28.40	.5876	.5096	27.46	.5417	.4942	.5224	2.096

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	1.128	.5566	.5793	.5500	1.954	.5648	.5171
Stddev	.002	.0009	.0009	.0021	.004	.0024	.0007
%RSD	.1660	.1578	.1586	.3894	.2125	.4238	.1426
#1	1.129	.5556	.5787	.5482	1.959	.5629	.5168
#2	1.129	.5571	.5804	.5493	1.952	.5640	.5179
#3	1.126	.5571	.5788	.5523	1.952	.5675	.5166

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	2700.5	7326.7	41551.	3470.8
Stddev	7.3	7.9	232.	13.6
%RSD	.26856	.10840	.55894	.39074
#1	2693.0	7321.3	41671.	3464.3
#2	2707.4	7322.9	41698.	3486.4
#3	2701.3	7335.8	41283.	3461.8

Zoom In Zoom Out

Sample Name: FA23224-2 Acquired: 4/2/2015 20:51:48 Type: Unk
Method: 60102007_041712(v212) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	.0007	.0355	-.0004	.0053	.0000	12.17	-.0001	-.0001	.0004	.0004
Stddev	.0001	.0095	.0001	.0002	.0001	.04	.0000	.0001	.0002	.0000
%RSD	16.03	26.91	41.33	4.411	356.4	.3690	45.08	96.91	46.65	9.739
#1	.0005	.0388	-.0003	.0056	.0000	12.12	.0000	-.0001	.0005	.0004
#2	.0007	.0429	-.0005	.0053	.0001	12.21	-.0001	.0000	.0003	.0004
#3	.0007	.0247	-.0002	.0051	.0000	12.17	-.0001	.0000	.0002	.0005

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	.1657	.5816	.6698	.0011	.0003	4.025	.0000	.0000	-.0001	.0004
Stddev	.0106	.0153	.0217	.0000	.0001	.014	.000	.001	.0004	.0003
%RSD	6.395	2.627	3.247	1.795	30.64	.3535	84.32	3042.	271.8	76.09
#1	.1775	.5859	.6841	.0011	.0005	4.009	-.0001	-.0003	.0003	.0005
#2	.1623	.5942	.6806	.0011	.0003	4.037	-.0001	.0006	-.0004	.0001
#3	.1571	.5646	.6448	.0011	.0003	4.030	.0000	-.0003	-.0003	.0007

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	.9198	-.0002	.0344	.0010	.0006	.0004	.0056
Stddev	.0015	.0001	.0002	.0000	.0007	.0001	.0000
%RSD	.1611	71.12	.6169	4.142	106.9	26.76	.5379
#1	.9182	.0000	.0343	.0010	.0014	.0005	.0056
#2	.9210	-.0003	.0346	.0010	.0003	.0004	.0056
#3	.9204	-.0003	.0342	.0009	.0002	.0003	.0056

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	3049.3	7539.5	43625.	3493.4
Stddev	2.3	6.0	134.	14.8
%RSD	.07520	.07911	.30803	.42390
#1	3052.0	7544.9	43627.	3494.1
#2	3048.4	7540.5	43490.	3478.3
#3	3047.7	7533.1	43759.	3507.9

Zoom In Zoom Out

Sample Name: CCV Acquired: 4/2/2015 20:56:00 Type: QC
Method: 60102007_041712(v212) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F.2821	41.05	2.146	F2.309	2.135	41.43	2.019	2.023	2.088
Stddev	.0008	.02	.002	.002	.003	.01	.002	.002	.004
%RSD	.2845	.0442	.0796	.0873	.1452	.0325	.1209	.1105	.1815
#1	.2815	41.06	2.146	2.307	2.133	41.42	2.016	2.020	2.085
#2	.2830	41.06	2.144	2.308	2.133	41.44	2.020	2.024	2.085
#3	.2819	41.03	2.148	2.311	2.138	41.44	2.021	2.024	2.092
Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	.2500			2.000					
Range	10.00%			10.00%					

Elem	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.186	43.41	43.86	43.84	F2.262	2.072	41.96	2.144	1.979
Stddev	.004	.12	.07	.09	.008	.009	.02	.002	.003
%RSD	.2072	.2847	.1598	.1941	.3434	.4415	.0495	.0853	.1238
#1	2.182	43.32	43.94	43.84	2.270	2.062	41.98	2.142	1.979
#2	2.185	43.36	43.84	43.75	2.263	2.073	41.95	2.145	1.976
#3	2.191	43.55	43.81	43.92	2.254	2.080	41.94	2.145	1.981
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					2.000				
Range					10.00%				

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.089	2.132	2.168	2.195	2.127	F2.224	2.002	F2.247	2.038
Stddev	.003	.001	.002	.005	.002	.006	.005	.004	.003
%RSD	.1514	.0296	.0951	.2362	.0777	.2613	.2547	.1842	.1611
#1	2.086	2.131	2.166	2.189	2.126	2.218	2.005	2.244	2.035
#2	2.089	2.132	2.170	2.199	2.126	2.228	1.996	2.246	2.040
#3	2.092	2.132	2.169	2.197	2.129	2.227	2.004	2.252	2.041
Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Fail	Chk Pass
Value						2.000		2.000	
Range						10.00%		10.00%	

Zoom In Zoom Out

Sample Name: CCV Acquired: 4/2/2015 20:56:00 Type: QC
Method: 60102007_041712(v212) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2637.5	7235.6	41765.	3494.6
Stddev	3.5	10.1	78.	15.0
%RSD	.13167	.14014	.18730	.42999
#1	2636.8	7247.2	41819.	3495.0
#2	2641.2	7228.4	41800.	3479.4
#3	2634.4	7231.3	41675.	3509.4

Zoom In Zoom Out

Sample Name: CCB Acquired: 4/2/2015 21:00:07 Type: QC
Method: 60102007_041712(v212) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0005	.0050	.0007	.0001	.0002	.0085	.0001	.0001	.0002
Stddev	.0001	.0073	.0006	.0001	.0001	.0014	.0001	.0001	.0002
%RSD	21.71	148.0	93.46	52.00	31.55	15.99	56.91	105.1	76.64
#1	.0006	.0096	.0000	.0002	.0002	.0090	.0002	.0002	.0004
#2	.0006	.0088	.0010	.0001	.0002	.0095	.0001	.0001	.0000
#3	.0004	-.0035	.0011	.0001	.0003	.0069	.0000	.0000	.0003
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0009	.0471	.0409	.0070	.0003	F.0040	-.0046	.0003	.0000
Stddev	.0002	.0104	.0333	.0155	.0001	.0013	.0060	.0002	.0004
%RSD	20.32	22.11	81.37	222.6	23.27	33.17	131.4	75.84	1073.
#1	.0011	.0588	.0645	.0041	.0002	.0053	-.0110	.0005	.0003
#2	.0008	.0437	.0553	-.0069	.0003	.0039	.0008	.0001	.0002
#3	.0007	.0388	.0028	.0238	.0003	.0027	-.0035	.0002	-.0004
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit						.0010			
Low Limit						-.0010			

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0005	.0008	-.0003	.0004	.0000	F.0021	.0003	.0002	.0001
Stddev	.0007	.0010	.0002	.0003	.0001	.0002	.0003	.0001	.0001
%RSD	136.0	121.3	66.01	76.53	227.5	9.045	128.2	47.84	67.63
#1	.0007	.0011	-.0005	.0005	.0000	.0023	.0000	.0002	.0002
#2	.0012	-.0003	-.0001	.0005	.0000	.0021	.0007	.0001	.0001
#3	-.0003	.0016	-.0002	.0000	.0001	.0020	.0002	.0004	.0000
Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit						.0020			
Low Limit						-.0020			

Zoom In Zoom Out

Sample Name: CCB Acquired: 4/2/2015 21:00:07 Type: QC
Method: 60102007_041712(v212) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3161.9	7636.2	44125.	3520.7
Stddev	8.0	4.8	64.	17.6
%RSD	.25202	.06240	.14584	.50006
#1	3154.9	7633.5	44187.	3531.0
#2	3170.6	7641.7	44058.	3500.3
#3	3160.3	7633.3	44130.	3530.7

Zoom In Zoom Out

Sample Name: FA23224-3 Acquired: 4/2/2015 21:04:21 Type: Unk
Method: 60102007_041712(v212) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	.0006	.0976	.0000	.0166	.0001	6.951	.0000	.0002	.0002	.0007
Stddev	.0002	.0099	.001	.0006	.0000	.027	.0001	.0000	.0001	.0002
%RSD	38.34	10.18	2032.	3.408	68.29	.3929	774.5	25.78	64.06	24.76
#1	.0008	.0875	-.0004	.0171	.0000	6.929	.0000	.0002	.0001	.0006
#2	.0008	.1074	-.0005	.0169	.0001	6.981	.0000	.0002	.0003	.0006
#3	.0004	.0979	.0008	.0160	.0001	6.943	.0000	.0001	.0002	.0009

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	.0125	8.794	10.12	.0167	.0005	8.375	-.0001	-.0001	-.0002	.0016
Stddev	.0025	.018	.04	.0000	.0001	.015	.0003	.0003	.0006	.0011
%RSD	19.89	.2032	.4317	.1369	27.90	.1825	613.5	514.9	389.1	71.49
#1	.0118	8.805	10.07	.0167	.0007	8.375	-.0003	.0002	.0003	.0028
#2	.0153	8.803	10.16	.0167	.0005	8.390	.0003	-.0001	.0000	.0006
#3	.0105	8.773	10.12	.0167	.0004	8.360	-.0002	-.0003	-.0008	.0014

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	2.706	-.0001	.0035	.0010	.0000	.0016	.0062
Stddev	.002	.0001	.0000	.0002	.0005	.0002	.0000
%RSD	.0704	143.8	.0259	17.99	7219.	10.75	.4298
#1	2.708	-.0001	.0035	.0009	-.0005	.0014	.0062
#2	2.706	.0000	.0035	.0009	.0000	.0017	.0062
#3	2.704	-.0003	.0035	.0012	.0005	.0016	.0062

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	2960.0	7523.8	43108.	3476.5
Stddev	5.2	7.4	58.	30.8
%RSD	.17553	.09785	.13532	.88637
#1	2961.7	7524.3	43051.	3476.1
#2	2954.2	7516.2	43104.	3445.8
#3	2964.2	7530.9	43168.	3507.5

Zoom In Zoom Out

Sample Name: FA23224-4 Acquired: 4/2/2015 21:08:32 Type: Unk
Method: 60102007_041712(v212) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	-.0014	22.34	.0151	.6962	.0038	7.762	.0205	.0049	.0681	.0135
Stddev	.0001	.04	.0000	.0020	.0000	.017	.0000	.0000	.0002	.0001
%RSD	6.291	.1771	.2867	.2895	.5040	.2246	.0459	.1497	.3194	1.019
#1	-.0014	22.29	.0150	.6942	.0039	7.743	.0205	.0049	.0683	.0136
#2	-.0015	22.37	.0151	.6961	.0038	7.777	.0206	.0049	.0682	.0134
#3	-.0014	22.35	.0151	.6983	.0039	7.767	.0206	.0049	.0679	.0134

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	4.195	.6529	.7035	.0097	.0051	7.914	.0072	.1480	-.0019	.0204
Stddev	.010	.0077	.0024	.0001	.0000	.012	.0000	.0006	.0001	.0002
%RSD	.2383	1.173	.3375	.8245	.3710	.1567	.0147	.4319	6.147	.8811
#1	4.184	.6446	.7032	.0098	.0051	7.900	.0072	.1480	-.0019	.0206
#2	4.204	.6541	.7060	.0097	.0051	7.923	.0072	.1473	-.0018	.0202
#3	4.198	.6598	.7012	.0096	.0051	7.919	.0072	.1486	-.0020	.0205

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	9.498	-.0002	1.345	.0532	.0002	.0518	.0284
Stddev	.004	.0001	.032	.0001	.0004	.0003	.0001
%RSD	.0395	54.68	2.378	.1585	215.7	.4883	.2605
#1	9.501	-.0001	1.309	.0533	.0001	.0521	.0283
#2	9.494	-.0002	1.356	.0532	-.0001	.0517	.0284
#3	9.500	-.0003	1.369	.0531	.0006	.0516	.0285

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	2724.3	32538.	184260.	15278.
Stddev	1.4	14.	1641.	44.
%RSD	.05050	.04203	.89049	.28756
#1	2725.1	32523.	182450.	15328.
#2	2722.7	32539.	184670.	15263.
#3	2725.0	32551.	185650.	15244.

Zoom In
Zoom Out

Sample Name: FA23224-5 Acquired: 4/2/2015 21:12:44 Type: Unk
Method: 60102007_041712(v212) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	-.0013	14.19	.0129	.5813	.0029	6.207	.0191	.0043	.0448	.0111
Stddev	.0001	.05	.0002	.0030	.0000	.023	.0000	.0000	.0001	.0001
%RSD	7.110	.3580	1.633	.5086	1.006	.3649	.1967	.7155	.1574	.6536
#1	-.0012	14.14	.0126	.5780	.0029	6.188	.0191	.0043	.0448	.0111
#2	-.0014	14.24	.0130	.5821	.0029	6.232	.0190	.0043	.0447	.0110
#3	-.0014	14.20	.0130	.5838	.0030	6.201	.0191	.0043	.0449	.0111

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	3.375	.6321	.4211	.0077	.0023	10.55	.0057	.0813	-.0016	.0226
Stddev	.016	.0085	.0067	.0000	.0000	.03	.0000	.0004	.0004	.0007
%RSD	.4618	1.340	1.584	.1046	2.120	.2821	.7081	.4434	22.16	2.944
#1	3.357	.6260	.4243	.0077	.0022	10.52	.0057	.0817	-.0013	.0218
#2	3.384	.6418	.4256	.0076	.0023	10.58	.0057	.0810	-.0020	.0231
#3	3.383	.6284	.4135	.0077	.0023	10.56	.0057	.0812	-.0016	.0228

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	7.940	-.0002	1.119	.0453	.0019	.0345	.0249
Stddev	.003	.0000	.004	.0000	.0003	.0001	.0000
%RSD	.0432	12.73	.3425	.1028	13.28	.1996	.0882
#1	7.942	-.0002	1.115	.0453	.0020	.0345	.0249
#2	7.942	-.0002	1.122	.0453	.0017	.0345	.0249
#3	7.936	-.0003	1.120	.0452	.0022	.0346	.0248

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	2798.7	22208.	126540.	10379.
Stddev	5.0	22.	154.	31.
%RSD	.17933	.10037	.12192	.30180
#1	2795.7	22200.	126610.	10394.
#2	2804.4	22233.	126360.	10343.
#3	2795.8	22191.	126640.	10400.

Zoom In
Zoom Out

Sample Name: FA23224-6 Acquired: 4/2/2015 21:16:51 Type: Unk
Method: 60102007_041712(v212) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	.0007	.2313	-.0006	.0205	.0001	4.847	.0000	.0002	.0005	.0010
Stddev	.0007	.0037	.0006	.0001	.0001	.023	.000	.0001	.0001	.0001
%RSD	104.3	1.607	112.9	.6980	146.6	.4687	312.8	36.94	14.49	8.318
#1	.0011	.2309	-.0010	.0206	.0000	4.845	.0000	.0001	.0004	.0009
#2	.0012	.2352	.0002	.0203	.0001	4.871	.0000	.0001	.0005	.0011
#3	-.0001	.2278	-.0008	.0205	.0001	4.826	.0000	.0003	.0005	.0009

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	.0229	7.948	7.151	.0142	-.0004	7.072	-.0002	.0003	-.0006	.0016
Stddev	.0020	.051	.069	.0000	.0001	.042	.0001	.0003	.0010	.0005
%RSD	8.802	.6391	.9698	.3003	38.97	.5939	47.66	112.0	157.3	31.92
#1	.0234	7.964	7.121	.0141	-.0005	7.069	-.0002	.0006	-.0005	.0013
#2	.0207	7.988	7.231	.0142	-.0004	7.116	-.0001	.0000	-.0017	.0022
#3	.0246	7.891	7.102	.0142	-.0002	7.032	-.0003	.0001	.0003	.0013

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	2.637	.0000	.0060	.0005	-.0007	.0007	.0071
Stddev	.002	.0003	.0001	.0000	.0006	.0002	.0000
%RSD	.0711	646.6	1.426	4.420	78.33	33.10	.2905
#1	2.636	.0000	.0060	.0004	-.0001	.0009	.0071
#2	2.636	-.0002	.0059	.0004	-.0013	.0005	.0071
#3	2.639	.0003	.0060	.0005	-.0008	.0006	.0071

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	2990.2	7613.5	43681.	3519.4
Stddev	6.3	8.1	267.	23.8
%RSD	.21210	.10646	.61024	.67524
#1	2984.4	7607.7	43378.	3507.5
#2	2989.1	7610.1	43880.	3504.0
#3	2997.0	7622.8	43786.	3546.8

Zoom In
Zoom Out

Sample Name: FA23224-7 Acquired: 4/2/2015 21:21:03 Type: Unk
Method: 60102007_041712(v212) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	-.0013	12.45	.0109	.5417	.0024	4.829	.0196	.0042	.0374	.0069
Stddev	.0001	.01	.0001	.0020	.0000	.015	.0000	.0000	.0001	.0001
%RSD	7.734	.0875	.8430	.3732	.7037	.3120	.1679	1.008	.1649	1.688
#1	-.0012	12.46	.0108	.5418	.0024	4.820	.0196	.0041	.0373	.0068
#2	-.0013	12.46	.0109	.5436	.0024	4.820	.0196	.0041	.0374	.0068
#3	-.0014	12.44	.0109	.5396	.0024	4.846	.0196	.0042	.0374	.0070

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	3.077	.4321	.3802	.0058	.0026	9.599	.0061	.0764	-.0016	.0170
Stddev	.004	.0021	.0055	.0000	.0000	.009	.0001	.0006	.0003	.0001
%RSD	.1268	.4760	1.448	.3899	.7385	.0902	1.116	.8249	20.95	.7151
#1	3.074	.4300	.3858	.0058	.0026	9.608	.0061	.0760	-.0019	.0169
#2	3.081	.4321	.3748	.0058	.0026	9.597	.0060	.0761	-.0012	.0171
#3	3.077	.4341	.3801	.0058	.0026	9.591	.0060	.0772	-.0016	.0170

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	6.513	-.0002	1.073	.0378	.0014	.0281	.0185
Stddev	.008	.0001	.002	.0000	.0003	.0001	.0000
%RSD	.1212	22.70	.1872	.0507	19.97	.1841	.1574
#1	6.504	-.0002	1.073	.0378	.0015	.0280	.0185
#2	6.517	-.0002	1.075	.0377	.0011	.0281	.0185
#3	6.518	-.0003	1.071	.0378	.0017	.0281	.0184

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	2816.4	24580.	139780.	11403.
Stddev	7.5	49.	414.	96.
%RSD	.26619	.19751	.29649	.84516
#1	2809.7	24526.	139860.	11318.
#2	2824.5	24595.	140150.	11508.
#3	2814.9	24620.	139330.	11383.

Zoom In
Zoom Out

Sample Name: FA23224-8 Acquired: 4/2/2015 21:25:09 Type: Unk
Method: 60102007_041712(v212) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	.0006	.1776	-.0002	.0185	.0001	4.716	.0000	-.0001	.0005	.0011
Stddev	.0005	.0052	.0002	.0002	.0000	.007	.000	.0001	.0002	.0004
%RSD	83.21	2.927	110.4	1.265	20.71	.1450	291.7	92.11	43.37	36.56
#1	.0005	.1727	-.0003	.0187	.0001	4.721	.0000	.0000	.0006	.0013
#2	.0011	.1771	.0001	.0185	.0001	4.708	.0000	.0000	.0007	.0014
#3	.0001	.1831	-.0004	.0183	.0001	4.718	.0000	-.0001	.0003	.0007

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	.0295	4.119	3.072	.0052	-.0004	5.102	.0000	-.0002	-.0006	.0013
Stddev	.0031	.022	.061	.0001	.0000	.016	.000	.0005	.0003	.0014
%RSD	10.33	.5320	1.988	1.007	13.66	.3111	2013.	238.8	40.61	111.9
#1	.0330	4.105	3.082	.0052	-.0003	5.085	-.0002	-.0001	-.0003	.0015
#2	.0271	4.107	3.007	.0052	-.0004	5.104	.0000	-.0007	-.0007	-.0003
#3	.0286	4.144	3.127	.0051	-.0004	5.117	.0002	.0002	-.0008	.0025

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	2.191	-.0002	.0056	.0005	-.0003	.0011	.0073
Stddev	.001	.0001	.0001	.0002	.0009	.0002	.0000
%RSD	.0368	61.17	1.536	46.93	267.8	16.99	.6285
#1	2.192	-.0001	.0057	.0007	-.0006	.0013	.0073
#2	2.191	-.0002	.0056	.0005	-.0011	.0009	.0073
#3	2.190	-.0002	.0055	.0003	.0006	.0011	.0074

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	3058.0	7633.3	43843.	3527.0
Stddev	2.6	5.7	71.	13.8
%RSD	.08532	.07457	.16250	.39018
#1	3061.0	7626.8	43885.	3512.1
#2	3057.1	7637.6	43760.	3529.7
#3	3056.0	7635.4	43882.	3539.2

Zoom In Zoom Out

Sample Name: FA23223-7F Acquired: 4/2/2015 21:29:20 Type: Unk
Method: 60102007_041712(v212) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)
Avg	.0013	.0981	.0398	.0005	.0000	65.10	.0004	.0040	.0051
Stddev	.0003	.0045	.0006	.0002	.0001	.09	.0000	.0000	.0001
%RSD	26.19	4.549	1.484	32.39	148.2	.1410	10.18	.2301	2.406
#1	.0015	.0937	.0392	.0006	.0001	65.15	.0004	.0040	.0052
#2	.0009	.1026	.0404	.0005	.0001	64.99	.0004	.0040	.0050
#3	.0014	.0980	.0399	.0003	.0000	65.14	.0003	.0040	.0050

Elem	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
IS Ref	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)
Avg	.0032	.0099	9.209	34.65	.1459	.0091	F223.2	.0303	-.0021
Stddev	.0001	.0056	.055	.08	.0005	.0001	.9	.0002	.0007
%RSD	4.138	56.59	.5929	.2397	.3669	1.141	.4130	.5103	31.86
#1	.0031	.0092	9.213	34.56	.1453	.0090	223.0	.0304	-.0021
#2	.0032	.0157	9.153	34.72	.1463	.0092	224.2	.0302	-.0028
#3	.0034	.0047	9.262	34.66	.1461	.0091	222.3	.0304	-.0015

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	.0013	.0122	35.96	-.0004	.0274	.0006	.0021	.1173	.0105
Stddev	.0008	.0002	.03	.0002	.0000	.0001	.0004	.0009	.0001
%RSD	62.54	1.497	.0702	53.92	.1246	12.97	20.27	.7463	1.075
#1	.0021	.0123	35.94	-.0006	.0274	.0005	.0016	.1164	.0103
#2	.0005	.0120	35.99	-.0002	.0274	.0007	.0024	.1176	.0104
#3	.0013	.0123	35.94	-.0004	.0274	.0006	.0021	.1181	.0106

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	2553.0	7024.3	39700.	3449.9
Stddev	2.5	6.0	80.	7.8
%RSD	.09699	.08583	.20089	.22525
#1	2550.2	7028.6	39792.	3443.1
#2	2554.9	7027.0	39661.	3448.2
#3	2554.0	7017.4	39648.	3458.4

Zoom In Zoom Out

Sample Name: FA23223-8F Acquired: 4/2/2015 21:33:37 Type: Unk
Method: 60102007_041712(v212) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	.0009	.0278	.0014	.0089	.0000	83.93	-.0001	-.0002	.0005	.0010
Stddev	.0001	.0009	.0004	.0000	.000	.08	.0000	.0000	.0002	.0000
%RSD	15.20	3.356	30.00	.2771	65.83	.0917	25.49	9.751	44.57	2.682
#1	.0008	.0279	.0015	.0089	.0000	83.99	-.0001	-.0002	.0006	.0010
#2	.0011	.0269	.0010	.0090	.0000	83.94	-.0001	-.0002	.0002	.0010
#3	.0009	.0287	.0018	.0089	.0000	83.84	-.0001	-.0002	.0005	.0010

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	15.09	1.609	40.52	.2194	-.0006	31.79	.0059	-.0023	-.0004	.0009
Stddev	.03	.031	.08	.0004	.0002	.07	.0001	.0007	.0002	.0012
%RSD	.1830	1.920	.2022	.1850	29.50	.2324	1.336	29.67	41.38	130.0
#1	15.06	1.619	40.52	.2199	-.0007	31.82	.0058	-.0023	-.0004	.0007
#2	15.12	1.633	40.60	.2194	-.0008	31.83	.0059	-.0029	-.0003	.0022
#3	15.10	1.574	40.44	.2191	-.0004	31.70	.0059	-.0016	-.0006	-.0001

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	10.57	-.0003	.0722	.0005	-.0001	.0004	.0069
Stddev	.01	.0002	.0004	.0001	.0008	.0001	.0000
%RSD	.0494	54.97	.6130	19.49	1516.	22.81	.5994
#1	10.56	-.0004	.0722	.0006	-.0003	.0005	.0069
#2	10.57	-.0001	.0727	.0004	.0009	.0004	.0069
#3	10.57	-.0004	.0718	.0006	-.0007	.0003	.0068

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	2760.7	7132.8	40888.	3414.9
Stddev	5.6	7.3	81.	12.6
%RSD	.20363	.10289	.19694	.36840
#1	2767.0	7140.1	40796.	3400.7
#2	2759.1	7132.9	40947.	3424.8
#3	2756.1	7125.4	40921.	3419.2

Zoom In Zoom Out

Sample Name: FA23223-9F Acquired: 4/2/2015 21:37:45 Type: Unk
Method: 60102007_041712(v212) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)
Avg	.0005	.0218	.0130	.0027	.0001	150.8	.0002	.0004	.0017
Stddev	.0002	.0052	.0005	.0002	.0001	.4	.0000	.0000	.0002
%RSD	49.82	23.64	3.940	5.509	106.2	.2349	13.06	8.906	13.35
#1	.0007	.0189	.0128	.0028	.0001	151.2	.0002	.0004	.0016
#2	.0003	.0278	.0136	.0029	.0001	150.7	.0002	.0005	.0020
#3	.0004	.0188	.0127	.0026	.0000	150.6	.0002	.0004	.0015

Elem	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
IS Ref	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)
Avg	.0016	10.82	5.734	67.63	.2896	.0107	F165.5	.0220	-.0033
Stddev	.0002	.03	.028	.06	.0013	.0001	2.9	.0003	.0004
%RSD	14.56	.2761	.4883	.0902	.4375	.7335	1.761	1.183	12.96
#1	.0018	10.85	5.764	67.64	.2899	.0106	168.8	.0223	-.0032
#2	.0014	10.80	5.708	67.57	.2907	.0108	163.4	.0218	-.0038
#3	.0016	10.81	5.730	67.69	.2882	.0108	164.3	.0219	-.0029

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	-.0008	.0029	22.18	-.0005	.1217	.0002	.0003	.0107	.0073
Stddev	.0004	.0004	.02	.0001	.0004	.0001	.0005	.0003	.0001
%RSD	50.49	13.24	.1022	19.07	.3041	53.64	173.5	2.745	.8786
#1	-.0013	.0033	22.21	-.0005	.1221	.0001	-.0003	.0109	.0073
#2	-.0004	.0026	22.17	-.0005	.1214	.0002	.0007	.0109	.0074
#3	-.0009	.0028	22.18	-.0007	.1216	.0001	.0004	.0104	.0072

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	2588.1	7082.1	40374.	3484.8
Stddev	2.4	9.4	222.	12.5
%RSD	.09456	.13219	.55026	.35927
#1	2588.0	7071.3	40239.	3472.1
#2	2590.6	7088.1	40252.	3485.1
#3	2585.7	7086.9	40630.	3497.2

Zoom In Zoom Out

Sample Name: FA23223-10F Acquired: 4/2/2015 21:42:01 Type: Unk
Method: 60102007_041712(v212) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)
Avg	.0003	.0202	.0018	.0189	.0000	142.3	-.0001	.0016	.0015
Stddev	.0002	.0112	.0006	.0001	.0001	.2	.0000	.0000	.0002
%RSD	80.85	55.55	34.84	.3585	236.8	.1702	40.03	2.097	13.42
#1	.0005	.0101	.0011	.0188	.0000	142.1	-.0001	.0016	.0015
#2	.0001	.0323	.0019	.0189	.0001	142.6	-.0001	.0015	.0012
#3	.0002	.0182	.0023	.0189	.0001	142.2	-.0001	.0016	.0016

Elem	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
IS Ref	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)
Avg	.0014	30.02	3.328	65.60	.4512	-.0005	F106.6	.0185	-.0019
Stddev	.0002	.07	.014	.17	.0014	.0001	.2	.0000	.0005
%RSD	12.40	.2464	.4101	.2572	.3043	20.67	.1864	.0981	29.09
#1	.0012	29.94	3.343	65.42	.4507	-.0005	106.6	.0185	-.0013
#2	.0015	30.09	3.316	65.65	.4527	-.0005	106.8	.0185	-.0018
#3	.0015	30.04	3.326	65.74	.4501	-.0004	106.4	.0186	-.0024

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	-.0009	.0013	24.83	-.0004	.1321	.0003	-.0013	.0034	.0102
Stddev	.0002	.0017	.01	.0003	.0001	.0001	.0003	.0002	.0000
%RSD	18.37	134.8	.0485	66.60	.0678	27.80	25.16	7.087	.2971
#1	-.0007	.0032	24.84	-.0002	.1320	.0004	-.0016	.0034	.0102
#2	-.0009	.0008	24.81	-.0003	.1322	.0003	-.0010	.0036	.0101
#3	-.0010	-.0001	24.83	-.0007	.1320	.0002	-.0012	.0031	.0102

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	2615.8	7062.8	40477.	3438.9
Stddev	1.6	3.8	266.	11.3
%RSD	.06034	.05402	.65735	.32751
#1	2615.3	7058.4	40511.	3439.4
#2	2614.6	7064.2	40195.	3427.5
#3	2617.6	7065.6	40724.	3450.0

Zoom In Zoom Out

Sample Name: CCV Acquired: 4/2/2015 21:46:10 Type: QC
Method: 60102007_041712(v212) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F.2802	40.60	2.129	F2.294	2.115	40.85	1.993	1.998	2.067
Stddev	.0008	.10	.001	.007	.006	.11	.002	.002	.003
%RSD	.2856	.2546	.0285	.3196	.2852	.2679	.1002	.1037	.1436
#1	.2793	40.57	2.128	2.286	2.114	40.86	1.990	1.996	2.068
#2	.2807	40.52	2.129	2.298	2.109	40.73	1.993	1.999	2.064
#3	.2807	40.72	2.129	2.299	2.121	40.95	1.994	2.000	2.070
Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	.2500			2.000					
Range	10.00%			10.00%					

Elem	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.168	42.89	43.59	43.28	F2.257	2.048	41.24	2.126	1.957
Stddev	.007	.17	.05	.11	.001	.010	.11	.003	.004
%RSD	.3305	.4061	.1244	.2504	.0531	.4758	.2735	.1391	.2216
#1	2.165	42.76	43.59	43.15	2.255	2.037	41.22	2.123	1.962
#2	2.176	42.82	43.53	43.33	2.257	2.050	41.13	2.129	1.957
#3	2.163	43.09	43.64	43.35	2.258	2.056	41.35	2.127	1.953
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					2.000				
Range					10.00%				

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.068	2.112	2.153	2.179	2.111	F2.214	1.977	F2.236	2.014
Stddev	.005	.005	.004	.003	.007	.006	.003	.003	.001
%RSD	.2540	.2317	.1777	.1136	.3159	.2918	.1521	.1234	.0330
#1	2.062	2.106	2.149	2.176	2.111	2.215	1.980	2.234	2.013
#2	2.071	2.115	2.155	2.181	2.105	2.207	1.976	2.239	2.014
#3	2.071	2.115	2.156	2.179	2.118	2.219	1.975	2.235	2.015
Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Fail	Chk Pass
Value						2.000		2.000	
Range						10.00%		10.00%	

Zoom In Zoom Out

Sample Name: CCV Acquired: 4/2/2015 21:46:10 Type: QC
Method: 60102007_041712(v212) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2668.0	7320.2	42120.	3547.6
Stddev	4.2	9.7	20.	10.7
%RSD	.15713	.13208	.04669	.30270
#1	2664.7	7331.3	42137.	3545.0
#2	2666.6	7314.1	42125.	3559.3
#3	2672.7	7315.1	42099.	3538.3

Zoom In Zoom Out

Sample Name: CCB Acquired: 4/2/2015 21:50:17 Type: QC
Method: 60102007_041712(v212) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F.0010	.0069	.0006	.0001	.0002	.0097	.0000	.0001	.0001
Stddev	.0002	.0081	.0002	.0002	.0000	.0004	.0000	.0001	.0004
%RSD	22.44	116.9	41.61	129.0	19.86	4.447	56.68	71.62	649.9
#1	.0010	-.0004	.0008	.0001	.0002	.0092	.0000	.0002	.0004
#2	.0008	.0157	.0006	.0003	.0002	.0100	.0001	.0000	.0001
#3	.0013	.0055	.0004	.0000	.0002	.0099	.0000	.0001	-.0003
Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	.0010								
Low Limit	-.0010								

Elem	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0008	.0420	.0187	.0085	.0001	F.0046	.0113	.0001	.0002
Stddev	.0003	.0122	.0150	.0019	.0001	.0014	.0024	.0001	.0002
%RSD	38.39	28.94	80.07	22.22	45.64	30.36	21.56	80.06	131.3
#1	.0006	.0555	.0273	.0097	.0002	.0061	.0109	.0002	.0000
#2	.0007	.0386	.0275	.0094	.0001	.0044	.0091	.0000	.0005
#3	.0012	.0319	.0014	.0063	.0001	.0033	.0140	.0002	.0001
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit						.0010			
Low Limit						-.0010			

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0008	.0005	-.0005	.0000	.0000	.0015	.0004	.0001	.0000
Stddev	.0001	.0006	.0001	.000	.0000	.0001	.0006	.0002	.000
%RSD	16.23	122.3	17.22	753.2	184.5	9.520	146.2	339.1	255.5
#1	.0008	-.0002	-.0005	.0002	.0000	.0016	.0004	-.0002	.0000
#2	.0008	.0007	-.0006	-.0003	.0001	.0014	-.0002	.0001	.0000
#3	.0010	.0009	-.0004	-.0001	.0000	.0014	.0011	.0003	.0000
Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Zoom In Zoom Out

Sample Name: CCB Acquired: 4/2/2015 21:50:17 Type: QC
Method: 60102007_041712(v212) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3205.1	7708.7	44320.	3561.4
Stddev	3.0	9.7	112.	14.1
%RSD	.09285	.12552	.25262	.39716
#1	3202.1	7699.0	44317.	3574.0
#2	3208.0	7718.4	44210.	3564.2
#3	3205.1	7708.6	44434.	3546.1

Zoom In Zoom Out

Sample Name: FA23223-11F Acquired: 4/2/2015 21:54:31 Type: Unk
Method: 60102007_041712(v212) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	.0006	.1201	.0068	.0022	-.0001	3.843	.0000	.0005	.0041	.0009
Stddev	.0002	.0060	.0002	.0001	.0001	.015	.000	.0001	.0004	.0002
%RSD	36.04	4.972	3.437	6.543	116.1	.3891	35.45	15.29	8.969	22.86
#1	.0007	.1246	.0070	.0023	.0000	3.856	.0000	.0006	.0045	.0010
#2	.0003	.1223	.0067	.0022	-.0001	3.827	.0000	.0005	.0041	.0006
#3	.0006	.1133	.0066	.0020	-.0001	3.845	.0000	.0004	.0038	.0009

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	3.990	4.998	4.141	.0257	.0018	59.46	.0081	-.0008	.0000	.0015
Stddev	.018	.020	.027	.0001	.0002	.05	.0001	.0000	.0007	.0008
%RSD	.4593	.4055	.6430	.4485	13.70	.0920	.9050	2.933	147200.	52.63
#1	3.988	5.010	4.124	.0258	.0021	59.47	.0080	-.0008	.0007	.0007
#2	3.972	5.010	4.127	.0258	.0018	59.52	.0081	-.0008	-.0006	.0016
#3	4.009	4.975	4.172	.0256	.0016	59.41	.0081	-.0008	.0000	.0023

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	13.70	.0000	.0031	.0018	-.0009	.0087	.0103
Stddev	.01	.0003	.0001	.0001	.0006	.0002	.0000
%RSD	.0712	660.6	4.250	5.439	65.65	2.208	.1671
#1	13.71	-.0002	.0033	.0018	-.0012	.0088	.0103
#2	13.70	.0004	.0031	.0019	-.0002	.0085	.0103
#3	13.69	.0000	.0031	.0017	-.0012	.0088	.0103

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	2822.3	7281.9	41704.	3468.0
Stddev	7.0	15.8	269.	26.5
%RSD	.24942	.21746	.64553	.76353
#1	2814.3	7263.7	41428.	3439.2
#2	2827.5	7292.0	41719.	3491.2
#3	2825.2	7290.2	41966.	3473.5

Zoom In Zoom Out

Sample Name: FA23223-12F Acquired: 4/2/2015 21:58:41 Type: Unk
Method: 60102007_041712(v212) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)
Avg	.0009	.3189	.0103	.2019	.0001	182.3	-.0001	.0038	.0076
Stddev	.0004	.0110	.0005	.0009	.0000	.3	.0001	.0001	.0002
%RSD	45.56	3.447	4.726	.4649	17.02	.1387	47.69	3.092	2.398
#1	.0009	.3188	.0099	.2030	.0001	182.1	-.0002	.0039	.0074
#2	.0013	.3299	.0108	.2015	.0001	182.6	-.0001	.0037	.0078
#3	.0005	.3080	.0101	.2012	.0001	182.2	-.0001	.0040	.0076

Elem	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
IS Ref	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)
Avg	.0036	105.5	F419.7	36.03	.0900	.0006	F142.6	.0238	-.0006
Stddev	.0001	.0	2.5	.04	.0004	.0002	1.9	.0001	.0005
%RSD	2.662	.0447	.5961	.1029	.4807	30.08	1.324	.6149	85.75
#1	.0037	105.6	422.0	36.00	.0896	.0004	141.0	.0240	-.0010
#2	.0036	105.6	420.2	36.07	.0905	.0007	142.1	.0238	-.0007
#3	.0036	105.5	417.0	36.02	.0900	.0008	144.7	.0238	.0000

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	-.0025	.0062	4.162	.0006	.0919	.0013	-.0005	.0453	.0132
Stddev	.0008	.0012	.004	.0001	.0002	.0001	.0002	.0001	.0000
%RSD	33.79	19.65	.0968	13.02	.2007	4.967	33.04	.1192	.0926
#1	-.0017	.0051	4.157	.0005	.0921	.0012	-.0004	.0453	.0132
#2	-.0034	.0062	4.164	.0005	.0920	.0013	-.0007	.0452	.0132
#3	-.0023	.0075	4.164	.0006	.0917	.0013	-.0005	.0452	.0132

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	2439.3	6748.0	38337.	3444.5
Stddev	6.0	6.2	115.	20.2
%RSD	.24727	.09156	.29968	.58514
#1	2432.5	6744.2	38407.	3464.6
#2	2441.7	6744.7	38204.	3444.5
#3	2443.8	6755.1	38399.	3424.3

Zoom In Zoom Out

Sample Name: FA23223-13F Acquired: 4/2/2015 22:02:57 Type: Unk
Method: 60102007_041712(v212) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)
Avg	.0012	.3252	.0098	.2085	.0001	187.4	-.0002	.0040	.0077
Stddev	.0001	.0108	.0004	.0003	.0001	.6	.0001	.0001	.0002
%RSD	4.696	3.332	3.753	.1489	109.8	.3030	43.80	2.773	2.098
#1	.0012	.3142	.0096	.2088	.0001	186.7	-.0001	.0041	.0078
#2	.0013	.3254	.0102	.2082	.0000	187.7	-.0002	.0039	.0078
#3	.0013	.3358	.0095	.2084	.0002	187.7	-.0002	.0041	.0075

Elem	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
IS Ref	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)
Avg	.0037	108.6	F417.9	37.03	.0930	.0006	F143.7	.0246	-.0005
Stddev	.0002	.4	.3	.14	.0004	.0001	1.0	.0001	.0004
%RSD	6.488	.3366	.0820	.3824	.4063	16.72	.7118	.4918	70.19
#1	.0038	108.2	418.2	36.91	.0927	.0006	144.7	.0247	-.0002
#2	.0035	108.7	418.1	36.99	.0935	.0007	142.6	.0245	-.0004
#3	.0040	108.9	417.6	37.19	.0929	.0006	143.9	.0245	-.0010

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	-.0027	.0086	4.250	.0005	.0940	.0012	-.0004	.0468	.0147
Stddev	.0006	.0005	.006	.0003	.0003	.0002	.0007	.0003	.0000
%RSD	24.08	5.549	.1466	47.81	.3537	16.16	163.5	.5582	.1985
#1	-.0019	.0083	4.255	.0003	.0936	.0011	.0004	.0471	.0147
#2	-.0031	.0091	4.243	.0005	.0940	.0011	-.0008	.0467	.0148
#3	-.0029	.0082	4.250	.0008	.0943	.0014	-.0009	.0467	.0147

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	2433.1	6755.1	38213.	3406.6
Stddev	4.5	10.8	160.	7.9
%RSD	.18411	.15976	.41835	.23202
#1	2432.1	6751.1	38280.	3415.3
#2	2429.2	6747.0	38030.	3404.6
#3	2438.0	6767.4	38328.	3399.9

Zoom In Zoom Out

Sample Name: FA23223-14F Acquired: 4/2/2015 22:07:13 Type: Unk
Method: 60102007_041712(v212) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)
Avg	.0006	1.815	.0837	-.0003	.0001	176.6	.0000	.0746	.0006
Stddev	.0003	.008	.0002	.0001	.0000	.5	.0001	.0002	.0001
%RSD	54.66	.4360	.2662	42.06	10.27	.2863	301.8	.2409	18.46
#1	.0006	1.810	.0838	-.0003	.0001	176.0	.0002	.0745	.0007
#2	.0010	1.812	.0838	-.0004	.0001	176.9	-.0001	.0745	.0007
#3	.0003	1.825	.0834	-.0002	.0001	176.9	.0000	.0748	.0005

Elem	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
IS Ref	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)
Avg	.0055	178.5	F99.18	70.94	.2786	.0018	F153.6	.1175	-.0006
Stddev	.0002	.6	.24	.30	.0011	.0001	.4	.0003	.0008
%RSD	4.159	.3196	.2427	.4208	.3846	2.999	.2842	.2575	123.3
#1	.0057	177.9	98.91	70.61	.2777	.0018	153.4	.1172	-.0014
#2	.0056	178.8	99.35	71.01	.2798	.0019	153.2	.1173	-.0007
#3	.0053	178.9	99.29	71.19	.2783	.0017	154.1	.1178	.0002

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	-.0044	.0051	35.97	.0005	.0453	.0000	-.0013	.0158	.0168
Stddev	.0002	.0017	.04	.0001	.0001	.000	.0005	.0002	.0001
%RSD	5.347	32.48	.1202	11.75	.3154	446.7	38.32	1.053	.4628
#1	-.0045	.0056	35.96	.0004	.0452	-.0001	-.0013	.0158	.0167
#2	-.0045	.0064	35.93	.0005	.0453	.0001	-.0008	.0157	.0168
#3	-.0041	.0032	36.01	.0005	.0455	-.0001	-.0019	.0160	.0168

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	2467.2	6748.8	38716.	3361.3
Stddev	4.7	6.9	190.	24.9
%RSD	.18949	.10176	.49034	.74154
#1	2465.9	6747.5	38898.	3384.6
#2	2463.3	6742.6	38519.	3335.0
#3	2472.4	6756.2	38731.	3364.3

Zoom In
Zoom Out

Sample Name: FA23223-15F Acquired: 4/2/2015 22:11:28 Type: Unk
Method: 60102007_041712(v212) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)
Avg	.0003	1.787	.0821	-.0005	.0001	172.5	.0001	.0732	.0008
Stddev	.0004	.025	.0006	.0001	.0000	.4	.0000	.0000	.0000
%RSD	110.9	1.370	.7123	17.36	25.30	.2114	28.98	.0189	3.288
#1	.0003	1.807	.0823	-.0006	.0001	172.5	.0001	.0732	.0008
#2	.0000	1.795	.0825	-.0005	.0001	172.9	.0001	.0732	.0007
#3	.0007	1.760	.0814	-.0004	.0001	172.1	.0001	.0732	.0008

Elem	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
IS Ref	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)
Avg	.0051	174.2	F97.77	69.35	.2731	.0018	F151.3	.1155	-.0006
Stddev	.0001	.4	.36	.21	.0004	.0001	2.4	.0004	.0008
%RSD	1.087	.2500	.3636	.3024	.1539	7.408	1.573	.3779	130.9
#1	.0052	174.1	98.00	69.31	.2728	.0019	150.6	.1155	-.0013
#2	.0052	174.7	97.95	69.57	.2730	.0017	153.9	.1151	-.0009
#3	.0051	173.8	97.36	69.16	.2736	.0016	149.3	.1160	.0003

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	-.0032	.0053	35.50	.0003	.0447	-.0001	-.0013	.0155	.0172
Stddev	.0008	.0010	.02	.0002	.0004	.0002	.0003	.0001	.0000
%RSD	25.48	19.21	.0551	70.25	.8168	397.0	24.78	.7461	.1156
#1	-.0041	.0047	35.49	.0001	.0448	-.0002	-.0013	.0156	.0172
#2	-.0028	.0065	35.49	.0005	.0449	-.0002	-.0016	.0154	.0172
#3	-.0026	.0047	35.53	.0002	.0442	.0002	-.0009	.0156	.0171

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	2526.1	6901.4	39541.	3471.2
Stddev	5.4	6.7	11.	15.1
%RSD	.21428	.09727	.02814	.43383
#1	2519.9	6895.6	39530.	3479.0
#2	2528.1	6908.7	39552.	3453.9
#3	2530.2	6899.7	39541.	3480.8

Zoom In
Zoom Out

Sample Name: FA23193-2 Acquired: 4/2/2015 22:15:43 Type: Unk
Method: 60102007_041712(v212) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	.0007	1.915	.0021	.0239	.0001	23.04	.0000	.0005	.0069	.0025
Stddev	.0004	.010	.0003	.0002	.0000	.05	.000	.0001	.0002	.0001
%RSD	54.68	.5454	14.14	.8198	53.56	.2364	70.30	24.19	2.230	2.594
#1	.0011	1.908	.0019	.0241	.0001	23.08	.0000	.0004	.0071	.0025
#2	.0007	1.927	.0020	.0240	.0000	22.98	-.0001	.0006	.0068	.0025
#3	.0003	1.909	.0025	.0237	.0001	23.07	-.0001	.0005	.0068	.0024

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	2.939	.7491	1.912	.0129	-.0003	26.70	.0017	.0016	-.0007	.0019
Stddev	.022	.0316	.040	.0000	.0002	.02	.0001	.0001	.0006	.0016
%RSD	.7630	4.216	2.113	.2241	66.30	.0606	5.401	8.131	91.35	87.91
#1	2.964	.7710	1.957	.0129	-.0002	26.71	.0016	.0017	-.0010	.0037
#2	2.929	.7129	1.881	.0129	-.0001	26.68	.0018	.0015	.0000	.0013
#3	2.923	.7634	1.897	.0129	-.0005	26.71	.0017	.0017	-.0010	.0006

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	10.70	.0003	.0574	.0035	-.0008	.0043	.0132
Stddev	.01	.0002	.0002	.0001	.0006	.0001	.0001
%RSD	.0968	51.39	.2827	1.602	76.62	2.304	.4503
#1	10.71	.0001	.0576	.0034	-.0014	.0043	.0133
#2	10.70	.0003	.0574	.0035	-.0006	.0041	.0132
#3	10.70	.0004	.0573	.0035	-.0003	.0043	.0132

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	2890.6	7451.0	42857.	3472.5
Stddev	4.7	7.6	145.	23.1
%RSD	.16205	.10248	.33850	.66406
#1	2888.7	7442.5	42721.	3459.9
#2	2887.1	7453.1	42841.	3499.1
#3	2895.9	7457.4	43009.	3458.4

Zoom In
Zoom Out

Sample Name: FA23079-6 Acquired: 4/2/2015 22:19:51 Type: Unk
Method: 60102007_041712(v212) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)
Avg	.0010	2.237	.0987	.2438	.0004	60.63	.0014	.0046	.0165
Stddev	.0004	.020	.0005	.0008	.0001	.16	.0000	.0000	.0002
%RSD	39.25	.9026	.5305	.3129	15.46	.2663	1.544	.9248	1.002
#1	.0007	2.216	.0982	.2436	.0004	60.52	.0014	.0046	.0166
#2	.0014	2.240	.0993	.2447	.0003	60.81	.0014	.0047	.0166
#3	.0008	2.256	.0986	.2432	.0003	60.55	.0014	.0046	.0163

Elem	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
IS Ref	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)
Avg	.1303	17.31	9.865	2.685	F7.615	.0038	3.077	.0184	.0112
Stddev	.0005	.04	.039	.037	.038	.0001	.007	.0001	.0004
%RSD	.4193	.2230	.3917	1.385	.4960	2.264	.2237	.5575	3.719
#1	.1303	17.28	9.826	2.643	7.652	.0037	3.084	.0184	.0117
#2	.1309	17.35	9.903	2.708	7.618	.0039	3.077	.0185	.0108
#3	.1298	17.29	9.868	2.706	7.576	.0037	3.071	.0183	.0112

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	.0010	.0012	7.167	.0020	.2450	.0394	.0017	.0139	1.098
Stddev	.0001	.0006	.013	.0000	.0006	.0001	.0004	.0002	.001
%RSD	14.77	46.95	.1755	1.561	.2309	.1563	21.84	1.129	.0452
#1	.0009	.0006	7.153	.0020	.2445	.0394	.0019	.0137	1.099
#2	.0009	.0017	7.178	.0021	.2456	.0393	.0013	.0140	1.098
#3	.0011	.0014	7.169	.0020	.2449	.0393	.0019	.0139	1.098

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	2879.8	7398.8	43040.	3504.1
Stddev	4.7	7.5	203.	15.1
%RSD	.16174	.10170	.47133	.43072
#1	2878.5	7390.2	42835.	3503.2
#2	2885.0	7402.7	43043.	3489.5
#3	2875.9	7403.7	43241.	3519.7

Zoom In
Zoom Out

Sample Name: FA23198-1 Acquired: 4/2/2015 22:24:09 Type: Unk
Method: 60102007_041712(v212) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	.0012	129.5	.0220	.5152	.0059	12.10	.0000	.0251	.1535	.0565
Stddev	.0004	.2	.0004	.0007	.0000	.02	.0001	.0001	.0003	.0001
%RSD	31.22	.1789	1.847	.1352	.2960	.1886	140.2	.2984	.1808	.2355
#1	.0015	129.3	.0222	.5145	.0059	12.08	.0000	.0251	.1533	.0565
#2	.0013	129.7	.0223	.5154	.0059	12.12	.0001	.0250	.1535	.0567
#3	.0008	129.4	.0216	.5158	.0059	12.10	.0000	.0251	.1538	.0564

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	72.60	5.571	5.770	.9453	.0047	1.457	.0428	.0782	-.0037	.0041
Stddev	.18	.013	.051	.0022	.0000	.003	.0001	.0005	.0002	.0010
%RSD	.2458	.2281	.8763	.2371	.6234	.1793	.2138	.6888	4.066	23.92
#1	72.39	5.562	5.769	.9428	.0047	1.455	.0427	.0788	-.0036	.0038
#2	72.73	5.585	5.821	.9460	.0046	1.460	.0429	.0779	-.0037	.0033
#3	72.66	5.565	5.719	.9470	.0047	1.455	.0428	.0779	-.0039	.0052

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	45.16	.0040	.0915	.5459	-.0014	.1988	.1395
Stddev	.04	.0002	.0002	.0010	.0006	.0007	.0003
%RSD	.0777	5.960	.2077	.1834	39.87	.3449	.2420
#1	45.15	.0043	.0917	.5448	-.0014	.1980	.1394
#2	45.20	.0039	.0914	.5462	-.0008	.1992	.1392
#3	45.14	.0039	.0915	.5467	-.0019	.1992	.1399

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	2782.1	9720.0	54852.	4531.5
Stddev	.5	.8	185.	15.0
%RSD	.01830	.00772	.33656	.33176
#1	2781.6	9719.7	55046.	4547.0
#2	2782.6	9720.9	54678.	4517.0
#3	2782.0	9719.5	54833.	4530.6

Zoom In Zoom Out

Sample Name: FA23147-17 Acquired: 4/2/2015 22:28:13 Type: Unk
Method: 60102007_041712(v212) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	.0006	.8370	.0072	.1720	.0000	105.5	-.0001	.0004	.0014	.0018
Stddev	.0003	.0121	.0003	.0002	.0001	.4	.0000	.0000	.0002	.0001
%RSD	49.52	1.440	4.836	.1418	198.2	.3342	9.570	6.603	17.08	3.609
#1	.0003	.8242	.0074	.1718	.0000	105.1	-.0001	.0004	.0013	.0017
#2	.0005	.8481	.0068	.1720	.0000	105.8	-.0001	.0004	.0012	.0018
#3	.0009	.8387	.0073	.1723	.0001	105.7	-.0001	.0003	.0016	.0019

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	3.720	1.567	64.93	.4410	.0017	75.56	.0015	-.0014	-.0016	.0014
Stddev	.011	.018	.21	.0015	.0001	.25	.0002	.0006	.0009	.0005
%RSD	.2813	1.123	.3272	.3314	6.856	.3298	12.49	42.30	56.64	34.60
#1	3.717	1.546	64.68	.4394	.0017	75.28	.0016	-.0008	-.0006	.0008
#2	3.731	1.576	65.02	.4421	.0017	75.72	.0013	-.0020	-.0023	.0017
#3	3.711	1.577	65.08	.4415	.0019	75.69	.0016	-.0015	-.0019	.0017

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	13.92	-.0010	.4691	.0366	.0001	.0029	.0125
Stddev	.01	.0004	.0020	.0008	.0006	.0002	.0000
%RSD	.0800	41.78	.4314	2.092	639.9	7.888	.3555
#1	13.92	-.0005	.4669	.0374	-.0002	.0026	.0124
#2	13.90	-.0012	.4709	.0359	.0008	.0030	.0124
#3	13.92	-.0013	.4695	.0365	-.0003	.0031	.0125

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	2711.2	7246.6	41329.	3506.3
Stddev	7.7	12.3	188.	19.9
%RSD	.28334	.16965	.45513	.56794
#1	2704.0	7232.4	41523.	3526.0
#2	2710.3	7254.4	41147.	3486.1
#3	2719.3	7253.0	41315.	3506.7

Zoom In Zoom Out

Sample Name: FA23147-18 Acquired: 4/2/2015 22:32:20 Type: Unk
Method: 60102007_041712(v212) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	.0004	3.921	.0047	.1180	.0002	95.24	.0000	.0026	.0067	.0076
Stddev	.0005	.009	.0002	.0002	.0001	.31	.000	.0001	.0002	.0003
%RSD	129.5	.2250	3.826	.1989	25.31	.3261	97.38	3.260	3.422	4.246
#1	.0002	3.912	.0049	.1177	.0002	94.94	.0000	.0025	.0065	.0079
#2	.0010	3.921	.0045	.1180	.0002	95.23	.0000	.0025	.0069	.0073
#3	.0000	3.930	.0047	.1182	.0003	95.56	.0000	.0026	.0066	.0075

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	4.985	1.791	53.29	.2716	.0029	70.62	.0077	.0013	.0000	.0015
Stddev	.009	.018	.47	.0011	.0001	.10	.0002	.0002	.0006	.0005
%RSD	.1903	.9769	.8848	.3949	1.885	.1361	2.331	16.22	4471.	36.21
#1	4.976	1.782	52.83	.2709	.0029	70.55	.0076	.0013	-.0007	.0016
#2	4.985	1.779	53.27	.2711	.0028	70.57	.0078	.0016	.0005	.0020
#3	4.995	1.811	53.77	.2728	.0030	70.73	.0079	.0011	.0002	.0009

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	12.38	-.0008	.3161	.1094	.0000	.0124	.0316
Stddev	.02	.0001	.0004	.0011	.001	.0003	.0001
%RSD	.1877	11.84	.1197	1.021	7994.	2.164	.2342
#1	12.41	-.0008	.3165	.1083	.0004	.0125	.0316
#2	12.37	-.0009	.3159	.1106	-.0006	.0126	.0316
#3	12.36	-.0007	.3158	.1094	.0002	.0121	.0315

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	2678.4	7172.2	40897.	3472.8
Stddev	4.0	10.5	56.	28.8
%RSD	.15091	.14646	.13720	.83023
#1	2675.0	7161.6	40853.	3505.9
#2	2677.3	7172.2	40878.	3459.7
#3	2682.9	7182.6	40960.	3452.9

Zoom In Zoom Out

Sample Name: CCV Acquired: 4/2/2015 22:36:28 Type: QC
Method: 60102007_041712(v212) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F.2789	40.82	2.113	F2.302	2.117	40.96	1.988	1.992	2.067
Stddev	.0006	.08	.001	.004	.002	.06	.001	.001	.004
%RSD	.2218	.2039	.0582	.1655	.1013	.1583	.0297	.0368	.2054
#1	.2795	40.83	2.115	2.307	2.116	41.02	1.989	1.992	2.068
#2	.2790	40.73	2.113	2.300	2.116	40.89	1.988	1.991	2.070
#3	.2782	40.89	2.112	2.300	2.120	40.97	1.988	1.993	2.062
Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	.2500			2.000					
Range	10.00%			10.00%					

Elem	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.164	42.89	43.76	43.45	F2.259	2.042	41.50	2.116	1.957
Stddev	.009	.09	.04	.05	.010	.008	.05	.002	.002
%RSD	.4102	.2123	.0941	.1168	.4594	.3907	.1196	.1057	.1235
#1	2.174	42.95	43.80	43.50	2.265	2.034	41.56	2.119	1.954
#2	2.157	42.79	43.72	43.46	2.265	2.042	41.47	2.114	1.957
#3	2.160	42.94	43.75	43.40	2.247	2.050	41.48	2.116	1.959
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					2.000				
Range					10.00%				

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.060	2.098	2.145	2.164	2.120	F2.207	1.973	F2.238	2.011
Stddev	.003	.004	.002	.005	.001	.006	.004	.007	.002
%RSD	.1362	.1664	.0919	.2149	.0597	.2811	.2208	.2989	.1089
#1	2.057	2.099	2.143	2.169	2.119	2.212	1.971	2.242	2.013
#2	2.061	2.101	2.147	2.161	2.119	2.210	1.978	2.242	2.009
#3	2.063	2.095	2.146	2.161	2.121	2.200	1.970	2.230	2.010
Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Fail	Chk Pass
Value						2.000		2.000	
Range						10.00%		10.00%	

Zoom In Zoom Out

Sample Name: CCV Acquired: 4/2/2015 22:36:28 Type: QC
Method: 60102007_041712(v212) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2675.0	7346.2	42082.	3480.0
Stddev	2.4	2.4	169.	27.6
%RSD	.08817	.03245	.40136	.79426
#1	2677.0	7343.6	42097.	3452.4
#2	2672.4	7346.6	41906.	3507.6
#3	2675.7	7348.3	42242.	3479.9

Zoom In
Zoom Out

Sample Name: CCB Acquired: 4/2/2015 22:40:36 Type: QC
Method: 60102007_041712(v212) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0005	.0063	.0003	.0003	.0003	.0127	.0003	.0003	.0003
Stddev	.0003	.0060	.0004	.0001	.0001	.0036	.0001	.0001	.0002
%RSD	61.85	95.39	113.4	44.68	40.80	27.99	22.60	51.59	74.32
#1	.0001	.0106	.0007	.0004	.0002	.0130	.0004	.0004	.0003
#2	.0006	-.0006	.0001	.0001	.0002	.0090	.0004	.0003	.0006
#3	.0007	.0090	.0002	.0003	.0004	.0161	.0003	.0001	.0001
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0012	.0417	.0731	-.0208	.0006	F.0048	.0147	.0005	.0009
Stddev	.0001	.0106	.0315	.0181	.0000	.0016	.0054	.0002	.0004
%RSD	10.41	25.43	43.13	86.98	6.479	32.97	36.64	39.83	45.53
#1	.0013	.0533	.0391	-.0259	.0006	.0065	.0201	.0006	.0006
#2	.0011	.0395	.0788	-.0359	.0007	.0046	.0093	.0005	.0013
#3	.0011	.0324	.1014	-.0007	.0006	.0034	.0147	.0003	.0007
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit						.0010			
Low Limit						-.0010			

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0011	.0003	.0000	.0007	.0004	.0019	.0011	.0005	.0003
Stddev	.0007	.0004	.001	.0003	.0001	.0002	.0004	.0002	.0001
%RSD	64.96	144.0	13510.	43.47	20.67	8.158	39.60	47.01	22.56
#1	.0018	.0001	.0006	.0007	.0003	.0021	.0008	.0008	.0004
#2	.0010	.0007	-.0005	.0009	.0003	.0019	.0009	.0005	.0003
#3	.0004	.0000	-.0001	.0003	.0004	.0018	.0016	.0003	.0003
Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Zoom In
Zoom Out

Sample Name: CCB Acquired: 4/2/2015 22:40:36 Type: QC
Method: 60102007_041712(v212) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3215.2	7782.0	45104.	3584.3
Stddev	1.3	9.1	127.	8.9
%RSD	.03904	.11713	.28058	.24916
#1	3216.6	7791.2	44985.	3578.7
#2	3215.1	7782.1	45091.	3594.6
#3	3214.1	7772.9	45237.	3579.6

Zoom In
Zoom Out

Sample Name: FA23156-4 Acquired: 4/2/2015 22:44:51 Type: Unk
Method: 60102007_041712(v212) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	.0007	1.763	.0182	.1120	.0001	88.49	.0000	.0015	.0033	.0055
Stddev	.0003	.008	.0005	.0008	.0001	.69	.0000	.0000	.0002	.0002
%RSD	41.70	.4658	2.735	.6768	87.53	.7807	111.4	3.047	6.731	3.363
#1	.0009	1.761	.0178	.1114	.0000	87.85	.0000	.0016	.0031	.0057
#2	.0008	1.772	.0187	.1128	.0002	89.22	.0000	.0015	.0033	.0053
#3	.0004	1.757	.0182	.1117	.0001	88.40	.0000	.0015	.0035	.0055

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	3.279	3.529	16.58	.3875	.0010	13.16	.0040	.0046	.0013	-.0001
Stddev	.027	.047	.17	.0009	.0002	.10	.0002	.0002	.0007	.0016
%RSD	.8158	1.340	1.055	.2203	18.66	.7682	4.002	5.209	57.86	1152.
#1	3.254	3.486	16.40	.3875	.0011	13.07	.0041	.0049	.0019	-.0017
#2	3.307	3.580	16.74	.3866	.0010	13.27	.0040	.0045	.0014	-.0002
#3	3.276	3.521	16.60	.3883	.0008	13.14	.0038	.0045	.0005	.0014

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	8.306	-.0007	.2123	.0655	-.0003	.0080	.0235
Stddev	.006	.0002	.0019	.0005	.0001	.0003	.0001
%RSD	.0714	22.67	.8757	.7211	44.24	3.596	.2431
#1	8.310	-.0006	.2107	.0655	-.0002	.0079	.0235
#2	8.299	-.0009	.2144	.0650	-.0002	.0083	.0234
#3	8.309	-.0008	.2119	.0660	-.0004	.0078	.0235

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	2790.8	7179.0	41678.	3500.6
Stddev	1.3	1.8	120.	27.4
%RSD	.04795	.02529	.28873	.78299
#1	2789.3	7177.1	41690.	3520.6
#2	2791.2	7179.2	41791.	3469.4
#3	2791.9	7180.7	41551.	3512.0

Zoom In
Zoom Out

Sample Name: FA23156-5 Acquired: 4/2/2015 22:48:58 Type: Unk
Method: 60102007_041712(v212) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	.0002	.0086	-.0002	.0001	-.0001	.0827	.0000	.0000	-.0001	.0005
Stddev	.0003	.0072	.0003	.0003	.0000	.0015	.000	.0000	.0002	.0000
%RSD	159.2	83.06	132.2	182.4	28.94	1.778	92.02	112.0	346.1	7.460
#1	.0002	.0016	-.0001	-.0001	-.0001	.0828	.0000	.0001	.0002	.0005
#2	.0004	.0085	.0000	.0004	-.0001	.0841	.0000	.0000	-.0002	.0005
#3	-.0001	.0159	-.0005	.0002	-.0001	.0812	-.0001	.0001	-.0002	.0005

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	.0049	.0219	-.0118	.0003	-.0002	.0117	.0001	.0000	.0003	.0007
Stddev	.0035	.0293	.0206	.0000	.0001	.0026	.0001	.000	.0002	.0001
%RSD	71.43	133.8	175.1	5.972	37.83	22.60	107.8	2540.	85.55	11.23
#1	.0076	.0466	.0050	.0002	-.0002	.0086	.0000	.0003	.0001	.0008
#2	.0061	.0295	-.0348	.0003	-.0002	.0130	.0002	-.0003	.0002	.0007
#3	.0009	-.0104	-.0056	.0003	-.0001	.0134	.0000	-.0001	.0005	.0006

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	.0293	-.0004	.0000	.0001	-.0008	-.0001	.0062
Stddev	.0002	.0001	.0001	.0002	.0001	.0003	.0000
%RSD	.8169	11.67	663.3	323.0	18.00	353.4	.3023
#1	.0295	-.0004	-.0001	.0002	-.0007	.0000	.0062
#2	.0290	-.0004	.0000	-.0001	-.0007	.0001	.0063
#3	.0294	-.0005	.0001	.0000	-.0009	-.0004	.0062

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	3099.6	7457.1	43413.	3468.8
Stddev	3.7	5.7	82.	36.4
%RSD	.11935	.07658	.18980	1.0490
#1	3096.7	7450.5	43507.	3443.6
#2	3098.3	7460.1	43372.	3510.5
#3	3103.7	7460.7	43358.	3452.3

Zoom In Zoom Out

Sample Name: FA23156-6 Acquired: 4/2/2015 22:53:12 Type: Unk
Method: 60102007_041712(v212) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)
Avg	.0007	11.14	.0134	.3913	.0007	146.8	.0002	.0095	.0191
Stddev	.0002	.06	.0007	.0016	.0000	.7	.0000	.0001	.0002
%RSD	29.55	.5221	4.951	.4173	6.690	.4756	6.148	.7905	.9102
#1	.0009	11.07	.0128	.3901	.0006	146.0	.0002	.0095	.0192
#2	.0005	11.17	.0141	.3931	.0007	147.2	.0002	.0095	.0192
#3	.0007	11.17	.0133	.3906	.0006	147.2	.0002	.0094	.0189

Elem	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
IS Ref	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)
Avg	.0418	22.84	3.648	86.64	.8109	.0036	F82.18	.0275	.0153
Stddev	.0002	.14	.019	.46	.0013	.0000	.31	.0002	.0012
%RSD	.5495	.6053	.5247	.5309	.1654	.8197	.3799	.6510	7.499
#1	.0417	22.69	3.666	86.12	.8095	.0036	81.85	.0276	.0166
#2	.0417	22.95	3.650	86.80	.8122	.0036	82.47	.0276	.0149
#3	.0421	22.90	3.628	86.99	.8109	.0036	82.22	.0273	.0145

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	.0025	.0012	29.13	-.0004	.7389	.3769	-.0002	.0340	.0736
Stddev	.0002	.0016	.06	.0001	.0018	.0019	.0006	.0004	.0000
%RSD	7.795	133.8	.2123	34.12	.2503	.5054	347.1	1.245	.0320
#1	.0025	.0027	29.20	-.0003	.7367	.3774	-.0008	.0337	.0736
#2	.0027	-.0004	29.10	-.0005	.7397	.3786	.0003	.0338	.0736
#3	.0024	.0011	29.10	-.0004	.7401	.3748	.0000	.0345	.0736

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	2626.9	7362.5	42188.	3559.2
Stddev	4.7	7.4	135.	21.4
%RSD	.18048	.10049	.32072	.60027
#1	2631.1	7354.3	42330.	3582.1
#2	2627.8	7364.6	42174.	3539.8
#3	2621.7	7368.6	42060.	3555.7

Zoom In Zoom Out

Sample Name: FA23156-7 Acquired: 4/2/2015 22:57:18 Type: Unk
Method: 60102007_041712(v212) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	.0006	3.680	.0184	.0458	.0002	29.47	.0001	.0024	.0060	.0138
Stddev	.0002	.020	.0001	.0002	.0001	.04	.0000	.0001	.0004	.0002
%RSD	31.17	.5310	.3633	.5163	29.76	.1232	53.63	2.085	6.329	1.466
#1	.0004	3.661	.0184	.0455	.0003	29.42	.0000	.0024	.0060	.0138
#2	.0008	3.700	.0184	.0460	.0002	29.49	.0001	.0025	.0063	.0136
#3	.0006	3.678	.0183	.0459	.0002	29.49	.0001	.0024	.0055	.0140

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	5.158	1.196	8.285	.1652	.0003	28.03	.0105	.0044	-.0002	.0016
Stddev	.007	.024	.051	.0004	.0001	.03	.0001	.0009	.0003	.0009
%RSD	.1284	1.991	.6170	.2619	36.33	.0939	1.078	20.51	142.7	54.45
#1	5.165	1.222	8.318	.1651	.0002	28.00	.0104	.0054	-.0002	.0025
#2	5.152	1.193	8.310	.1648	.0004	28.04	.0106	.0036	.0001	.0016
#3	5.157	1.175	8.226	.1656	.0003	28.05	.0105	.0043	-.0005	.0007

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	9.635	-.0010	.0508	.1226	.0000	.0167	.0240
Stddev	.006	.0001	.0001	.0003	.001	.0001	.0000
%RSD	.0672	13.37	.1811	.2050	6590.	.7251	.1793
#1	9.628	-.0011	.0507	.1226	.0003	.0166	.0241
#2	9.637	-.0009	.0509	.1229	-.0008	.0167	.0241
#3	9.640	-.0008	.0507	.1224	.0004	.0169	.0240

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	2819.2	7330.0	42367.	3503.1
Stddev	4.0	6.7	42.	8.3
%RSD	.14280	.09177	.09822	.23667
#1	2817.8	7327.1	42387.	3506.1
#2	2816.0	7325.2	42395.	3493.8
#3	2823.7	7337.7	42320.	3509.5

Zoom In Zoom Out

Sample Name: FA23156-10 Acquired: 4/2/2015 23:01:26 Type: Unk
Method: 60102007_041712(v212) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)
Avg	.0005	9.565	.0634	.1909	.0005	386.6	-.0001	.0072	.0166
Stddev	.0003	.005	.0003	.0008	.0000	4.0	.0000	.0001	.0002
%RSD	69.29	.0523	.4186	.4256	8.270	1.047	21.26	.8356	1.135
#1	.0003	9.560	.0636	.1905	.0004	382.1	-.0001	.0072	.0166
#2	.0003	9.565	.0631	.1903	.0005	387.8	-.0001	.0071	.0168
#3	.0009	9.570	.0635	.1918	.0005	389.9	-.0001	.0072	.0165

Elem	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
IS Ref	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)
Avg	.0254	21.76	3.585	175.4	2.299	.0011	F200.6	.0199	.0102
Stddev	.0002	.05	.054	.6	.005	.0001	1.9	.0000	.0004
%RSD	.9143	.2250	1.519	.3190	.2061	8.883	.9520	.1934	4.171
#1	.0257	21.75	3.612	175.5	2.294	.0012	199.4	.0200	.0097
#2	.0253	21.71	3.522	174.8	2.301	.0012	202.8	.0199	.0105
#3	.0253	21.81	3.621	175.9	2.303	.0010	199.6	.0199	.0104

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	-.0006	.0004	30.67	-.0010	1.283	.2943	-.0010	.0300	.0520
Stddev	.0007	.0001	.05	.0002	.004	.0017	.0008	.0004	.0003
%RSD	108.0	18.43	.1607	23.52	.2940	.5737	72.42	1.469	.4906
#1	.0001	.0004	30.65	-.0012	1.285	.2931	-.0019	.0296	.0518
#2	-.0013	.0005	30.63	-.0009	1.279	.2962	-.0008	.0304	.0520
#3	-.0007	.0003	30.72	-.0008	1.285	.2936	-.0005	.0299	.0523

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	2363.3	6836.1	38985.	3507.3
Stddev	8.5	16.6	136.	16.1
%RSD	.35771	.24287	.34874	.45850
#1	2359.1	6832.3	39128.	3524.9
#2	2373.1	6854.3	38968.	3493.3
#3	2357.8	6821.7	38858.	3503.7

Zoom In Zoom Out

Sample Name: FA23156-11 Acquired: 4/2/2015 23:05:50 Type: Unk
Method: 60102007_041712(v212) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	.0005	3.865	.0174	.0456	.0003	28.88	.0001	.0024	.0062	.0139
Stddev	.0004	.007	.0003	.0001	.0001	.03	.0000	.0001	.0001	.0002
%RSD	88.09	.1811	1.968	.1915	23.15	.1024	36.33	2.725	2.055	1.431
#1	.0000	3.859	.0172	.0455	.0002	28.90	.0001	.0024	.0064	.0139
#2	.0007	3.873	.0173	.0457	.0003	28.85	.0001	.0023	.0061	.0137
#3	.0007	3.864	.0178	.0455	.0003	28.90	.0000	.0025	.0063	.0141

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	5.306	1.266	8.219	.1614	.0004	26.84	.0106	.0042	.0001	.0012
Stddev	.011	.016	.070	.0002	.0001	.03	.0001	.0005	.0003	.0010
%RSD	.2135	1.249	.8549	.1128	22.03	.1140	1.031	12.73	430.1	90.36
#1	5.319	1.249	8.279	.1615	.0003	26.87	.0106	.0036	.0002	.0008
#2	5.299	1.279	8.142	.1612	.0004	26.82	.0106	.0043	-.0003	.0003
#3	5.300	1.270	8.235	.1614	.0004	26.82	.0104	.0046	.0003	.0023

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	9.873	-.0009	.0494	.1243	-.0003	.0170	.0224
Stddev	.014	.0001	.0001	.0005	.0002	.0004	.0001
%RSD	.1370	8.121	.2234	.4215	59.45	2.644	.2370
#1	9.878	-.0009	.0493	.1237	-.0003	.0165	.0224
#2	9.883	-.0010	.0494	.1242	-.0004	.0173	.0224
#3	9.857	-.0009	.0495	.1248	-.0001	.0171	.0225

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	2880.3	7505.9	43442.	3577.9
Stddev	3.9	8.2	149.	13.3
%RSD	.13384	.10913	.34202	.37211
#1	2882.9	7513.2	43569.	3578.1
#2	2882.1	7497.0	43479.	3591.1
#3	2875.9	7507.6	43278.	3564.5

Zoom In Zoom Out

Sample Name: FA23156-12 Acquired: 4/2/2015 23:09:58 Type: Unk
Method: 60102007_041712(v212) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)
Avg	.0018	3.583	.0126	.5177	.0004	20.88	.0040	.0056	.0065
Stddev	.0005	.007	.0005	.0027	.0000	.08	.0000	.0001	.0002
%RSD	26.26	.2090	3.809	.5130	5.365	.3857	.3551	1.010	3.588
#1	.0018	3.581	.0121	.5160	.0004	20.79	.0040	.0056	.0063
#2	.0022	3.578	.0126	.5163	.0004	20.91	.0040	.0056	.0068
#3	.0013	3.592	.0130	.5208	.0004	20.95	.0040	.0055	.0065

Elem	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
IS Ref	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)
Avg	.0109	63.11	10.58	16.05	F17.15	.0012	44.46	.0013	.0046
Stddev	.0003	.27	.07	.08	.06	.0001	.20	.0001	.0007
%RSD	2.575	.4239	.6864	.4925	.3530	5.732	.4573	4.701	14.34
#1	.0106	62.82	10.52	15.96	17.15	.0012	44.28	.0013	.0054
#2	.0111	63.16	10.56	16.07	17.20	.0013	44.42	.0014	.0042
#3	.0110	63.35	10.66	16.12	17.08	.0012	44.68	.0013	.0043

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	-.0019	.0039	10.95	.0005	.2472	.1722	.0050	.0152	.0783
Stddev	.0006	.0008	.01	.0003	.0013	.0011	.0002	.0001	.0001
%RSD	34.62	20.22	.1074	54.75	.5171	.6617	3.923	.6274	.1755
#1	-.0013	.0046	10.96	.0004	.2458	.1712	.0049	.0153	.0783
#2	-.0017	.0030	10.94	.0004	.2478	.1734	.0053	.0151	.0782
#3	-.0026	.0041	10.94	.0009	.2481	.1718	.0050	.0151	.0785

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	2835.3	7492.3	42801.	3556.8
Stddev	1.6	2.9	45.	19.2
%RSD	.05593	.03902	.10450	.54078
#1	2835.6	7495.3	42788.	3569.7
#2	2833.5	7489.4	42765.	3565.9
#3	2836.6	7492.1	42851.	3534.7

Zoom In Zoom Out

Sample Name: FA23156-14 Acquired: 4/2/2015 23:14:14 Type: Unk
Method: 60102007_041712(v212) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)
Avg	.0010	10.49	.0056	.2274	.0003	47.87	.0000	.0040	.0054
Stddev	.0002	.02	.0004	.0004	.0000	.12	.0000	.0001	.0001
%RSD	19.59	.2012	6.405	.1940	7.836	.2445	84.99	1.423	1.784
#1	.0010	10.51	.0060	.2270	.0003	47.76	.0000	.0041	.0054
#2	.0012	10.48	.0056	.2278	.0003	47.99	.0000	.0040	.0054
#3	.0008	10.47	.0053	.2273	.0003	47.87	.0001	.0040	.0052

Elem	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
IS Ref	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)
Avg	.0334	48.07	5.778	26.43	F4.692	.0010	27.07	.0024	.0063
Stddev	.0002	.12	.028	.16	.005	.0001	.04	.0002	.0003
%RSD	.7419	.2472	.4899	.5875	.1121	10.21	.1473	6.514	4.851
#1	.0335	47.93	5.746	26.38	4.689	.0011	27.03	.0025	.0066
#2	.0336	48.16	5.791	26.60	4.698	.0009	27.11	.0022	.0061
#3	.0331	48.10	5.798	26.30	4.689	.0010	27.07	.0024	.0061

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	-.0012	.0012	22.01	.0003	.2662	.7362	.0010	.0374	.0571
Stddev	.0005	.0011	.02	.0002	.0002	.0020	.0004	.0003	.0001
%RSD	41.00	92.62	.0896	65.28	.0879	.2654	44.74	.8294	.2081
#1	-.0017	.0004	22.02	.0003	.2660	.7379	.0012	.0374	.0570
#2	-.0008	.0024	21.98	.0005	.2663	.7367	.0012	.0377	.0571
#3	-.0010	.0007	22.02	.0001	.2664	.7340	.0005	.0371	.0572

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	2789.4	7627.7	43850.	3619.1
Stddev	9.8	14.1	223.	25.4
%RSD	.35110	.18551	.50882	.70177
#1	2795.1	7635.0	43850.	3618.8
#2	2778.1	7611.4	43627.	3593.9
#3	2795.0	7636.8	44074.	3644.7

Zoom In Zoom Out

Sample Name: FA23166-1 Acquired: 4/2/2015 23:18:30 Type: Unk
Method: 60102007_041712(v212) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	.0005	.0087	.0045	.0055	.0000	37.10	.0000	-.0003	.0006	.0004
Stddev	.0003	.0027	.0005	.0002	.0001	.13	.000	.0001	.0003	.0002
%RSD	60.17	31.67	10.86	4.472	4483.	.3502	134.7	18.56	59.35	36.45
#1	.0008	.0058	.0051	.0055	.0001	37.04	.0000	-.0002	.0003	.0005
#2	.0006	.0088	.0045	.0057	.0000	37.25	-.0001	-.0003	.0005	.0003
#3	.0002	.0113	.0041	.0052	-.0001	37.02	.0000	-.0003	.0010	.0006

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	.1549	.8824	18.52	.0026	.0007	9.402	-.0003	-.0015	-.0004	.0004
Stddev	.0098	.0225	.10	.0000	.0000	.022	.0002	.0003	.0004	.0008
%RSD	6.326	2.553	.5657	1.796	3.107	.2389	84.32	17.85	84.28	189.4
#1	.1660	.8589	18.56	.0027	.0006	9.390	-.0004	-.0016	-.0007	.0006
#2	.1507	.9038	18.60	.0026	.0007	9.428	-.0004	-.0018	.0000	-.0004
#3	.1478	.8845	18.40	.0026	.0007	9.389	.0000	-.0012	-.0006	.0011

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	12.64	-.0002	.1447	.0013	-.0008	-.0001	.0161
Stddev	.01	.0002	.0002	.0002	.0006	.0002	.0000
%RSD	.0878	92.05	.1722	14.29	76.51	251.7	.1000
#1	12.65	-.0004	.1445	.0012	-.0013	.0000	.0161
#2	12.63	.0000	.1450	.0015	-.0008	-.0002	.0161
#3	12.64	-.0003	.1447	.0011	-.0002	.0001	.0161

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	2959.2	7505.6	43343.	3504.2
Stddev	1.5	14.0	123.	25.3
%RSD	.05082	.18631	.28444	.72257
#1	2958.0	7494.4	43213.	3514.1
#2	2958.7	7501.3	43359.	3475.4
#3	2960.9	7521.3	43458.	3523.1

Zoom In Zoom Out

Sample Name: FA23166-2 Acquired: 4/2/2015 23:22:41 Type: Unk
Method: 60102007_041712(v212) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	.0005	.0086	.0041	.0054	.0000	37.50	.0000	-.0001	.0003	.0005
Stddev	.0002	.0083	.0005	.0004	.0001	.14	.000	.0001	.0003	.0003
%RSD	42.82	96.41	13.15	8.290	136.7	.3823	72.26	39.83	113.8	50.30
#1	.0003	.0096	.0036	.0051	.0001	37.36	.0000	-.0001	.0003	.0003
#2	.0006	.0163	.0041	.0059	.0000	37.65	.0000	-.0001	.0000	.0005
#3	.0006	-.0001	.0046	.0053	.0000	37.50	.0000	-.0002	.0006	.0008

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	.0798	.9015	18.71	.0019	.0006	9.517	-.0001	-.0010	-.0011	.0002
Stddev	.0051	.0076	.07	.0000	.0001	.037	.0002	.0009	.0008	.0003
%RSD	6.363	.8437	.3996	1.920	14.81	.3871	179.6	82.37	71.00	130.2
#1	.0845	.8945	18.62	.0019	.0006	9.477	-.0003	-.0016	-.0017	.0005
#2	.0803	.9005	18.77	.0019	.0007	9.550	.0001	-.0015	-.0013	.0000
#3	.0744	.9096	18.72	.0020	.0006	9.523	-.0003	-.0001	-.0002	.0001

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	12.77	-.0004	.1467	.0008	.0001	-.0001	.0150
Stddev	.03	.0001	.0006	.0001	.0003	.0004	.0001
%RSD	.2026	14.37	.3790	14.76	231.6	535.4	.4432
#1	12.78	-.0004	.1461	.0007	.0004	-.0004	.0150
#2	12.79	-.0005	.1471	.0009	.0000	.0002	.0150
#3	12.75	-.0004	.1470	.0008	-.0001	.0000	.0151

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	2948.1	7465.7	43268.	3514.9
Stddev	3.8	7.1	26.	6.6
%RSD	.12835	.09545	.06070	.18918
#1	2948.7	7474.0	43280.	3518.3
#2	2951.5	7462.2	43286.	3507.2
#3	2944.0	7461.1	43238.	3519.1

Zoom In Zoom Out

Sample Name: CCV Acquired: 4/2/2015 23:26:52 Type: QC
Method: 60102007_041712(v212) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F.2815	40.74	2.123	F2.307	2.105	40.78	1.993	1.998	2.072
Stddev	.0012	.08	.003	.006	.004	.09	.001	.002	.006
%RSD	.4167	.1886	.1219	.2816	.1656	.2304	.0597	.0754	.2963
#1	.2823	40.68	2.124	2.300	2.101	40.73	1.992	1.997	2.074
#2	.2820	40.71	2.125	2.313	2.106	40.72	1.994	2.000	2.077
#3	.2801	40.83	2.120	2.307	2.108	40.89	1.993	1.998	2.065
Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	.2500			2.000					
Range	10.00%			10.00%					

Elem	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.177	42.71	43.82	43.09	F2.256	2.048	41.49	2.124	1.957
Stddev	.004	.10	.08	.26	.017	.008	.03	.002	.002
%RSD	.2025	.2347	.1797	.6134	.7321	.3833	.0639	.0780	.1088
#1	2.181	42.61	43.81	42.82	2.261	2.039	41.46	2.123	1.955
#2	2.179	42.71	43.75	43.11	2.269	2.051	41.49	2.126	1.958
#3	2.172	42.81	43.90	43.34	2.237	2.053	41.51	2.123	1.958
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					2.000				
Range					10.00%				

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.075	2.112	2.156	2.175	2.117	F2.213	1.977	F2.243	2.014
Stddev	.001	.002	.003	.003	.003	.007	.002	.002	.002
%RSD	.0497	.0754	.1161	.1186	.1420	.3284	.1186	.0819	.1194
#1	2.074	2.110	2.155	2.173	2.114	2.218	1.976	2.243	2.011
#2	2.076	2.113	2.158	2.178	2.119	2.217	1.975	2.245	2.016
#3	2.075	2.112	2.153	2.174	2.119	2.205	1.980	2.241	2.015
Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Fail	Chk Pass
Value						2.000		2.000	
Range						10.00%		10.00%	

Zoom In Zoom Out

Sample Name: CCV Acquired: 4/2/2015 23:26:52 Type: QC
Method: 60102007_041712(v212) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2684.6	7357.6	42252.	3503.2
Stddev	4.8	13.7	167.	22.0
%RSD	.17778	.18602	.39592	.62782
#1	2689.8	7366.8	42328.	3501.5
#2	2680.5	7341.8	42060.	3525.9
#3	2683.5	7364.0	42368.	3482.0

Zoom In Zoom Out

Sample Name: CCB Acquired: 4/2/2015 23:31:00 Type: QC
Method: 60102007_041712(v212) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0005	.0039	.0009	.0002	.0002	.0072	.0003	.0003	.0003
Stddev	.0001	.0046	.0005	.0001	.0000	.0003	.0001	.0001	.0002
%RSD	17.63	118.1	63.45	67.48	25.07	4.724	25.47	25.91	67.76
#1	.0005	.0078	.0012	.0001	.0002	.0073	.0003	.0003	.0001
#2	.0005	-.0012	.0012	.0002	.0002	.0068	.0003	.0004	.0003
#3	.0006	.0050	.0002	.0003	.0001	.0074	.0002	.0002	.0004
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0010	.0384	.0488	.0152	.0004	F.0047	-.0008	.0004	F.0011
Stddev	.0003	.0097	.0249	.0098	.0000	.0015	.0067	.0000	.0005
%RSD	32.85	25.28	50.98	64.82	10.57	32.64	798.8	9.793	40.62
#1	.0006	.0478	.0243	.0245	.0004	.0063	-.0034	.0004	.0012
#2	.0011	.0390	.0481	.0161	.0003	.0046	-.0059	.0004	.0016
#3	.0012	.0284	.0740	.0049	.0004	.0033	.0068	.0003	.0006
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Fail
High Limit						.0010			.0010
Low Limit						-.0010			-.0010

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0006	.0018	-.0007	.0006	.0001	.0017	.0005	.0003	.0003
Stddev	.0008	.0011	.0003	.0002	.0000	.0002	.0004	.0001	.0001
%RSD	142.4	58.22	51.66	28.51	40.50	9.990	81.39	16.72	25.95
#1	.0012	.0012	-.0007	.0005	.0000	.0019	.0000	.0003	.0003
#2	-.0004	.0031	-.0003	.0005	.0000	.0016	.0007	.0003	.0003
#3	.0009	.0012	-.0010	.0008	.0001	.0015	.0008	.0004	.0002
Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Zoom In Zoom Out

Sample Name: CCB Acquired: 4/2/2015 23:31:00 Type: QC
Method: 60102007_041712(v212) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3239.9	7804.4	45268.	3600.3
Stddev	3.0	3.9	70.	19.4
%RSD	.09205	.04986	.15374	.53746
#1	3236.7	7802.1	45242.	3617.3
#2	3242.6	7802.1	45347.	3604.3
#3	3240.5	7808.8	45216.	3579.3

Zoom In Zoom Out

Sample Name: FA23166-3 Acquired: 4/2/2015 23:35:15 Type: Unk
Method: 60102007_041712(v212) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	.0005	1.515	-.0005	.0347	.0001	10.47	.0000	-.0002	.0028	.0006
Stddev	.0003	.007	.0003	.0001	.0001	.04	.0000	.0001	.0001	.0001
%RSD	67.19	.4671	68.78	.2991	100.4	.3780	542.7	59.74	4.835	23.24
#1	.0009	1.521	-.0007	.0348	.0001	10.51	.0001	.0000	.0027	.0005
#2	.0005	1.518	-.0006	.0347	.0001	10.45	.0000	-.0002	.0030	.0007
#3	.0002	1.507	-.0001	.0346	.0000	10.43	.0000	-.0002	.0027	.0006

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	.0859	3.750	1.113	.0006	.0009	8.653	.0004	.0007	.0001	.0037
Stddev	.0026	.003	.020	.0000	.0002	.034	.0002	.0001	.0005	.0004
%RSD	2.984	.0802	1.800	2.017	25.03	.3920	36.67	19.48	362.0	9.963
#1	.0870	3.753	1.136	.0006	.0011	8.688	.0006	.0006	.0006	.0036
#2	.0829	3.748	1.102	.0006	.0008	8.620	.0005	.0008	-.0003	.0034
#3	.0876	3.748	1.100	.0006	.0007	8.651	.0003	.0006	.0001	.0041

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	3.515	-.0001	.0444	.0689	-.0005	.0041	.0076
Stddev	.002	.0002	.0000	.0010	.0006	.0000	.0000
%RSD	.0539	186.5	.1090	1.378	133.0	1.006	.5432
#1	3.513	-.0003	.0443	.0679	-.0010	.0040	.0076
#2	3.516	.0001	.0444	.0698	-.0007	.0041	.0076
#3	3.516	.0000	.0443	.0691	.0002	.0041	.0076

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	3051.3	7713.0	44846.	3618.3
Stddev	5.0	8.5	302.	23.5
%RSD	.16505	.11018	.67291	.64893
#1	3055.8	7722.7	45000.	3595.4
#2	3052.1	7709.1	44499.	3617.4
#3	3045.8	7707.1	45040.	3642.3

Zoom In Zoom Out

Sample Name: FA23166-4 Acquired: 4/2/2015 23:39:24 Type: Unk
Method: 60102007_041712(v212) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	.0005	.0556	-.0003	.0002	.0000	14.13	.0000	.0012	.0006	.0006
Stddev	.0002	.0088	.0001	.0001	.000	.03	.000	.0001	.0002	.0003
%RSD	46.36	15.75	39.07	71.26	286.7	.2084	6240.	4.968	35.97	43.68
#1	.0002	.0474	-.0002	.0000	.0000	14.15	.0000	.0011	.0004	.0005
#2	.0006	.0545	-.0002	.0001	.0000	14.09	.0000	.0013	.0008	.0009
#3	.0005	.0648	-.0004	.0003	-.0001	14.13	.0000	.0012	.0005	.0004

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	4.643	1.257	3.033	.0270	-.0003	38.61	.0021	-.0005	-.0004	.0015
Stddev	.003	.038	.026	.0001	.0001	.08	.0001	.0003	.0005	.0004
%RSD	.0705	3.025	.8514	.2596	32.23	.2104	3.704	61.49	132.0	24.38
#1	4.639	1.262	3.060	.0269	-.0002	38.66	.0022	-.0006	-.0009	.0019
#2	4.644	1.216	3.008	.0270	-.0003	38.52	.0022	-.0001	.0001	.0012
#3	4.646	1.292	3.033	.0270	-.0004	38.66	.0020	-.0006	-.0004	.0014

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	17.73	-.0004	.0015	.0007	-.0007	.0001	.0088
Stddev	.01	.0002	.0001	.0001	.0002	.0001	.0001
%RSD	.0775	56.84	4.701	7.875	28.47	228.2	.6427
#1	17.73	-.0005	.0015	.0007	-.0009	.0000	.0088
#2	17.72	-.0006	.0015	.0007	-.0005	.0002	.0088
#3	17.74	-.0001	.0016	.0006	-.0006	-.0001	.0089

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	2935.4	7554.0	43430.	3545.5
Stddev	3.8	11.5	83.	16.4
%RSD	.12943	.15194	.19027	.46322
#1	2931.2	7540.8	43446.	3526.7
#2	2936.4	7561.7	43341.	3552.5
#3	2938.6	7559.4	43504.	3557.2

Zoom In Zoom Out

Sample Name: FA23166-5 Acquired: 4/2/2015 23:43:34 Type: Unk
Method: 60102007_041712(v212) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	.0003	.0967	.0024	.0052	.0000	27.40	.0000	-.0003	.0013	.0007
Stddev	.0004	.0069	.0004	.0003	.000	.03	.0001	.0000	.0002	.0003
%RSD	156.6	7.156	14.72	4.964	1367.	.0954	441.9	7.604	12.89	37.54
#1	.0007	.1042	.0023	.0050	.0000	27.39	.0000	-.0003	.0014	.0007
#2	.0002	.0953	.0028	.0054	-.0001	27.43	.0000	-.0003	.0011	.0005
#3	-.0001	.0906	.0021	.0051	.0000	27.39	.0001	-.0003	.0013	.0010

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	.0553	.8706	10.92	.0009	.0022	6.964	-.0001	-.0005	-.0013	.0016
Stddev	.0010	.0109	.04	.0000	.0001	.007	.0002	.0005	.0002	.0011
%RSD	1.773	1.256	.3934	4.240	2.899	.0955	281.2	86.50	17.33	71.85
#1	.0564	.8724	10.89	.0009	.0023	6.963	.0000	-.0007	-.0014	.0025
#2	.0550	.8805	10.90	.0008	.0022	6.972	.0001	-.0009	-.0014	.0003
#3	.0545	.8589	10.97	.0008	.0022	6.959	-.0003	.0000	-.0010	.0018

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	10.86	-.0003	.1398	.0035	-.0002	.0007	.0073
Stddev	.02	.0001	.0004	.0002	.0005	.0001	.0000
%RSD	.2014	48.25	.3140	6.103	251.8	18.87	.1118
#1	10.86	-.0002	.1393	.0033	-.0005	.0007	.0073
#2	10.89	-.0003	.1401	.0037	-.0005	.0005	.0072
#3	10.85	-.0005	.1399	.0034	.0004	.0008	.0073

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	3036.4	7666.0	44050.	3509.3
Stddev	5.9	11.2	128.	10.5
%RSD	.19355	.14654	.29112	.29910
#1	3031.1	7657.4	43968.	3497.2
#2	3042.7	7678.7	43984.	3516.0
#3	3035.3	7661.9	44198.	3514.6

Zoom In Zoom Out

Sample Name: FA23166-6 Acquired: 4/2/2015 23:47:45 Type: Unk
Method: 60102007_041712(v212) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	.0006	.0092	-.0008	.0000	.0000	.0280	-.0001	-.0001	.0000	.0004
Stddev	.0003	.0067	.0004	.0000	.000	.0019	.0000	.0000	.000	.0003
%RSD	46.14	73.14	51.54	271.7	96.00	6.759	36.56	40.61	202.0	57.40
#1	.0004	.0014	-.0003	.0000	.0000	.0263	.0000	-.0001	.0000	.0004
#2	.0009	.0126	-.0011	.0001	.0000	.0278	-.0001	-.0001	.0000	.0002
#3	.0004	.0135	-.0011	.0000	-.0001	.0301	-.0001	-.0001	-.0001	.0007

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	-.0007	.0210	.0280	.0002	-.0003	-.0022	.0004	.0005	-.0011	.0011
Stddev	.0036	.0029	.0030	.0000	.0000	.0006	.0001	.0003	.0006	.0002
%RSD	488.5	13.74	10.78	8.117	12.41	27.79	14.10	55.26	50.70	22.21
#1	-.0023	.0243	.0245	.0002	-.0002	-.0027	.0004	.0003	-.0018	.0012
#2	-.0034	.0195	.0294	.0002	-.0002	-.0023	.0004	.0009	-.0008	.0008
#3	.0034	.0192	.0301	.0002	-.0003	-.0015	.0003	.0005	-.0008	.0013

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	.0278	-.0003	.0000	-.0001	-.0006	-.0001	.0074
Stddev	.0003	.0002	.0001	.0000	.0004	.0000	.0000
%RSD	.9847	63.10	222.0	86.57	75.05	39.57	.4487
#1	.0278	-.0001	.0000	-.0001	-.0001	-.0001	.0074
#2	.0281	-.0004	.0001	-.0001	-.0007	-.0001	.0075
#3	.0275	-.0002	.0000	.0000	-.0009	-.0001	.0074

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	3206.4	7708.4	45145.	3557.7
Stddev	.9	12.3	177.	16.2
%RSD	.02911	.15909	.39167	.45545
#1	3205.7	7694.3	45338.	3539.3
#2	3206.0	7714.7	44990.	3569.6
#3	3207.4	7716.3	45109.	3564.3

Zoom In Zoom Out

Sample Name: FA23166-7 Acquired: 4/2/2015 23:51:59 Type: Unk
Method: 60102007_041712(v212) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	.0003	.0215	.0027	.0004	.0000	42.92	.0000	-.0006	.0006	.0002
Stddev	.0002	.0020	.0008	.0003	.0001	.13	.000	.0001	.0000	.0002
%RSD	58.35	9.152	30.23	73.80	727.9	.2958	160.9	11.61	4.631	88.09
#1	.0005	.0192	.0021	.0006	-.0001	42.78	.0000	-.0005	.0006	.0004
#2	.0002	.0226	.0024	.0006	.0000	42.95	.0000	-.0006	.0006	.0000
#3	.0002	.0227	.0037	.0001	.0001	43.03	.0000	-.0007	.0007	.0002

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	.8312	15.82	12.93	.0461	.0024	8.350	-.0003	-.0015	-.0011	.0009
Stddev	.0073	.06	.07	.0002	.0001	.011	.0002	.0002	.0005	.0003
%RSD	.8820	.3958	.5092	.3536	3.621	.1297	57.86	12.16	47.44	31.79
#1	.8253	15.75	12.87	.0460	.0023	8.338	-.0001	-.0016	-.0008	.0010
#2	.8394	15.84	12.91	.0461	.0024	8.357	-.0003	-.0013	-.0009	.0006
#3	.8288	15.87	13.00	.0463	.0025	8.356	-.0005	-.0016	-.0018	.0012

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	26.20	-.0003	.0015	.0005	-.0007	.0001	.0063
Stddev	.09	.0002	.0001	.0001	.0003	.0002	.0000
%RSD	.3600	69.96	5.480	18.21	50.46	167.3	.4413
#1	26.10	-.0006	.0016	.0004	-.0003	.0002	.0063
#2	26.28	-.0002	.0016	.0005	-.0008	.0004	.0063
#3	26.23	-.0002	.0014	.0006	-.0009	-.0001	.0062

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	2954.6	7628.7	44088.	3626.7
Stddev	23.9	36.1	214.	13.4
%RSD	.80946	.47365	.48579	.36915
#1	2928.2	7588.4	44109.	3640.4
#2	2960.8	7639.4	44291.	3626.1
#3	2974.8	7658.2	43864.	3613.7

Zoom In Zoom Out

Sample Name: MP28745-MB1 Acquired: 4/2/2015 23:56:11 Type: QC
Method: 60102007_041712(v212) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000	.0073	-.0009	-.0001	-.0001	.0496	.0000	-.0001	.0004
Stddev	.001	.0069	.0006	.0000	.0001	.0016	.000	.0000	.0001
%RSD	2480.	95.06	62.59	39.19	91.98	3.149	345.2	17.12	22.58
#1	-.0006	.0125	-.0015	-.0001	-.0002	.0514	.0000	-.0001	.0003
#2	-.0002	-.0006	-.0004	.0000	.0000	.0485	.0000	-.0001	.0005
#3	.0007	.0100	-.0008	-.0001	-.0002	.0490	.0000	-.0002	.0004
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0014	.0150	.0356	.0174	.0002	-.0003	-.0030	.0003	.0008
Stddev	.0001	.0022	.0013	.0242	.0000	.0001	.0037	.0002	.0002
%RSD	8.429	14.50	3.618	139.1	6.846	17.58	123.0	51.63	31.16
#1	.0015	.0160	.0363	.0409	.0003	-.0003	-.0006	.0002	.0008
#2	.0012	.0164	.0365	.0190	.0002	-.0003	-.0011	.0005	.0011
#3	.0014	.0125	.0341	-.0075	.0002	-.0003	-.0073	.0003	.0006
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0005	.0020	.0225	F.0254	.0000	.0003	-.0010	.0000	.0009
Stddev	.0001	.0005	.0008	.0002	.000	.0001	.0007	.000	.0000
%RSD	11.35	22.81	3.478	.6084	373.4	40.60	72.70	260.5	3.213
#1	-.0006	.0022	.0233	.0254	-.0001	.0002	-.0017	-.0001	.0008
#2	-.0005	.0024	.0225	.0252	.0000	.0004	-.0003	.0001	.0009
#3	-.0005	.0015	.0217	.0255	.0000	.0002	-.0009	.0000	.0009
Check ?	Chk Pass	Chk Pass	None	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				.0250					
Low Limit				-.0250					

Zoom In Zoom Out

Sample Name: MP28745-MB1 Acquired: 4/2/2015 23:56:11 Type: QC
Method: 60102007_041712(v212) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3230.2	7751.8	45729.	3647.5
Stddev	2.9	14.5	143.	31.1
%RSD	.08887	.18681	.31263	.85391
#1	3227.2	7735.5	45832.	3611.6
#2	3230.5	7756.6	45790.	3663.6
#3	3232.9	7763.2	45566.	3667.4

Zoom In Zoom Out

Sample Name: MP28745-B1 Acquired: 4/3/2015 0:00:26 Type: QC
Method: 60102007_041712(v212) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0568	28.39	2.188	F2.426	.0557	26.49	.0509	.5198	.2192
Stddev	.0007	.08	.003	.005	.0001	.06	.0000	.0005	.0003
%RSD	1.168	.2718	.1290	.2046	.1705	.2359	.0625	.1044	.1197
#1	.0562	28.30	2.190	2.420	.0556	26.42	.0510	.5195	.2190
#2	.0575	28.46	2.190	2.430	.0557	26.51	.0509	.5204	.2191
#3	.0567	28.40	2.185	2.428	.0557	26.54	.0509	.5195	.2195
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value				2.000					
Range				20.00%					

Elem	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2916	28.61	28.34	27.57	.5879	.5256	26.99	.5581	.4939
Stddev	.0013	.13	.04	.21	.0009	.0005	.05	.0007	.0014
%RSD	.4296	.4417	.1298	.7674	.1470	.0869	.1910	.1194	.2795
#1	.2902	28.47	28.31	27.32	.5884	.5252	26.94	.5584	.4953
#2	.2919	28.64	28.38	27.69	.5869	.5261	27.04	.5586	.4936
#3	.2926	28.72	28.35	27.69	.5885	.5255	27.00	.5574	.4926
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value									
Range									

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5325	2.162	.0171	.5974	.5444	.5604	1.989	.5655	.5180
Stddev	.0030	.002	.0002	.0002	.0007	.0008	.003	.0029	.0006
%RSD	.5549	.0786	1.039	.0400	.1216	.1485	.1515	.5173	.1118
#1	.5291	2.163	.0171	.5975	.5437	.5604	1.992	.5626	.5184
#2	.5343	2.163	.0173	.5977	.5450	.5596	1.987	.5655	.5183
#3	.5340	2.160	.0170	.5972	.5444	.5612	1.988	.5685	.5174
Check ?	Chk Pass	Chk Pass	None	Chk Pass	None	None	Chk Pass	Chk Pass	Chk Pass
Value									
Range									

Zoom In Zoom Out

Sample Name: MP28745-B1 Acquired: 4/3/2015 0:00:26 Type: QC
Method: 60102007_041712(v212) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2809.1	7447.5	42973.	3553.3
Stddev	7.5	13.3	198.	28.9
%RSD	.26652	.17921	.46079	.81410
#1	2800.9	7436.1	42963.	3578.3
#2	2810.6	7444.2	43175.	3560.0
#3	2815.6	7462.2	42780.	3521.6

Zoom In Zoom Out

Sample Name: FA22818-1 Acquired: 4/3/2015 0:04:26 Type: Unk
Method: 60102007_041712(v212) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)
Avg	.0039	387.9	.0707	1.490	-.0002	F811.1	.0490	.1010
Stddev	.0001	2.6	.0003	.002	.0001	12.9	.0002	.0002
%RSD	2.146	.6587	.4778	.1366	25.10	1.592	.4977	.2107
#1	.0039	384.9	.0708	1.491	-.0002	796.3	.0492	.1008
#2	.0038	389.4	.0710	1.491	-.0002	817.2	.0488	.1010
#3	.0039	389.3	.0703	1.487	-.0003	819.8	.0492	.1012

Elem	Cr2677	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)
Avg	1.048	.6675	341.0	10.41	15.92	F14.12	.0527	3.399
Stddev	.002	.0003	3.1	.04	.09	.02	.0000	.007
%RSD	.2246	.0451	.9230	.3781	.5718	.1238	.0917	.2116
#1	1.047	.6677	338.7	10.37	15.83	14.12	.0527	3.401
#2	1.046	.6671	344.6	10.45	16.00	14.14	.0528	3.406
#3	1.051	.6676	339.8	10.41	15.94	14.11	.0527	3.392

Elem	Ni2316	Pb2203	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)
Avg	.2054	1.260	.0211	.0039	1.940	.0163	F21.86	F13.00
Stddev	.0001	.001	.0018	.0001	.001	.0003	.36	.01
%RSD	.0584	.1042	8.405	3.297	.0285	2.100	1.641	.1017
#1	.2053	1.260	.0230	.0040	1.939	.0164	21.82	13.02
#2	.2054	1.258	.0196	.0038	1.940	.0160	22.24	13.00
#3	.2056	1.261	.0206	.0038	1.940	.0167	21.52	12.99

Elem	Tl1908	V_2924	Zn2062
IS Ref	(In2306)	(Y_3600)	(Y_2243)
Avg	F-.0771	.3382	F4.837
Stddev	.0018	.0009	.006
%RSD	2.364	.2748	.1272
#1	-.0791	.3390	4.833
#2	-.0767	.3371	4.844
#3	-.0755	.3383	4.834

Zoom In Zoom Out

Sample Name: FA22818-1 Acquired: 4/3/2015 0:04:26 Type: Unk
Method: 60102007_041712(v212) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	1965.1	15567.	90153.	8659.5
Stddev	4.6	9.	125.	92.9
%RSD	.23545	.05532	.13838	1.0723
#1	1963.5	15558.	90068.	8764.2
#2	1970.3	15575.	90296.	8587.3
#3	1961.5	15569.	90095.	8626.9

Zoom In Zoom Out

Sample Name: MP28745-D1 Acquired: 4/3/2015 0:09:17 Type: Unk
Method: 60102007_041712(v212) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)
Avg	.0040	405.1	.0802	1.574	.0000	F736.9	.0547	.1089
Stddev	.0001	5.5	.0015	.000	.000	1.5	.0002	.0000
%RSD	1.641	1.346	1.832	.0185	95.17	.2021	.3208	.0446
#1	.0041	411.0	.0813	1.574	-.0001	736.0	.0547	.1090
#2	.0040	403.9	.0807	1.574	-.0001	736.0	.0545	.1089
#3	.0040	400.3	.0785	1.573	.0000	738.6	.0549	.1090

Elem	Cr2677	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)
Avg	1.137	.7807	384.0	10.66	15.52	F14.58	.1374	3.585
Stddev	.003	.0013	2.7	.03	.03	.05	.0002	.002
%RSD	.3025	.1722	.7031	.2526	.2106	.3354	.1553	.0522
#1	1.139	.7800	384.7	10.65	15.55	14.62	.1373	3.585
#2	1.139	.7799	386.3	10.63	15.53	14.59	.1376	3.583
#3	1.133	.7823	381.0	10.68	15.49	14.52	.1372	3.586

Elem	Ni2316	Pb2203	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)
Avg	.2680	1.095	.0237	.0029	1.913	.0195	F22.28	F13.14
Stddev	.0003	.004	.0006	.0011	.001	.0002	.13	.01
%RSD	.1080	.3834	2.447	37.21	.0428	.8557	.5815	.0743
#1	.2683	1.091	.0241	.0021	1.913	.0197	22.27	13.15
#2	.2679	1.100	.0230	.0024	1.913	.0195	22.42	13.14
#3	.2677	1.095	.0238	.0041	1.912	.0194	22.16	13.13

Elem	Tl1908	V_2924	Zn2062
IS Ref	(In2306)	(Y_3600)	(Y_2243)
Avg	F-.0836	.3364	F4.727
Stddev	.0020	.0005	.005
%RSD	2.450	.1527	.1086
#1	-.0813	.3362	4.730
#2	-.0849	.3369	4.730
#3	-.0848	.3359	4.721

Zoom In Zoom Out

Sample Name: MP28745-D1 Acquired: 4/3/2015 0:09:17 Type: Unk
Method: 60102007_041712(v212) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	1888.7	16080.	93444.	8981.4
Stddev	3.3	8.	268.	21.6
%RSD	.17309	.04861	.28636	.24082
#1	1891.6	16072.	93219.	8963.3
#2	1889.5	16087.	93374.	8975.5
#3	1885.2	16080.	93740.	9005.4

Zoom In Zoom Out

Sample Name: MP28745-D2 Acquired: 4/3/2015 0:14:09 Type: Unk
Method: 60102007_041712(v212) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)
Avg	.0042	404.5	.0731	1.564	-.0001	F787.6	.0512	.1044
Stddev	.0002	2.8	.0007	.005	.0001	3.5	.0002	.0000
%RSD	5.826	.6858	.9616	.3108	63.94	.4419	.4489	.0261
#1	.0042	404.5	.0726	1.570	-.0002	789.4	.0509	.1043
#2	.0039	407.3	.0729	1.563	-.0001	789.9	.0514	.1044
#3	.0043	401.7	.0739	1.560	.0000	783.6	.0513	.1044

Elem	Cr2677	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)
Avg	1.086	.7264	364.5	10.60	15.76	F14.47	.0640	3.507
Stddev	.002	.0013	2.4	.03	.14	.03	.0000	.014
%RSD	.1699	.1753	.6635	.2961	.8585	.1951	.0651	.3932
#1	1.086	.7270	367.2	10.64	15.90	14.45	.0640	3.523
#2	1.087	.7271	363.6	10.58	15.74	14.50	.0640	3.504
#3	1.084	.7249	362.7	10.58	15.63	14.46	.0641	3.496

Elem	Ni2316	Pb2203	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)
Avg	.2371	1.195	.0308	.0041	1.933	.0175	F22.47	F13.18
Stddev	.0003	.004	.0003	.0012	.002	.0001	.30	.04
%RSD	.1190	.3139	1.051	28.53	.0876	.5284	1.320	.3323
#1	.2371	1.196	.0309	.0040	1.933	.0174	22.76	13.20
#2	.2375	1.198	.0305	.0053	1.934	.0176	22.50	13.21
#3	.2369	1.191	.0311	.0029	1.931	.0174	22.16	13.13

Elem	Tl1908	V_2924	Zn2062
IS Ref	(In2306)	(Y_3600)	(Y_2243)
Avg	F-.0830	.3390	F4.759
Stddev	.0014	.0008	.007
%RSD	1.692	.2474	.1420
#1	-.0830	.3384	4.752
#2	-.0817	.3400	4.766
#3	-.0845	.3387	4.760

Zoom In Zoom Out

Sample Name: MP28745-D2 Acquired: 4/3/2015 0:14:09 Type: Unk
Method: 60102007_041712(v212) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	1910.5	15879.	91752.	8717.5
Stddev	2.7	15.	129.	60.6
%RSD	.13896	.09656	.14067	.69505
#1	1910.0	15897.	91702.	8652.4
#2	1908.2	15872.	91655.	8728.0
#3	1913.4	15869.	91898.	8772.2

Zoom In Zoom Out

Sample Name: CCV Acquired: 4/3/2015 0:19:02 Type: QC
Method: 60102007_041712(v212) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F.2789	40.56	2.112	F2.301	2.070	40.34	1.976	1.987	2.036
Stddev	.0009	.14	.002	.009	.007	.19	.001	.002	.001
%RSD	.3376	.3347	.0819	.3919	.3323	.4623	.0510	.0845	.0617
#1	.2783	40.51	2.110	2.296	2.073	40.41	1.975	1.986	2.037
#2	.2800	40.72	2.113	2.311	2.076	40.48	1.976	1.986	2.035
#3	.2784	40.46	2.113	2.295	2.063	40.13	1.977	1.989	2.035
Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	.2500			2.000					
Range	10.00%			10.00%					

Elem	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.178	42.48	43.44	42.43	F2.211	2.036	41.13	2.104	1.942
Stddev	.004	.19	.20	.18	.014	.007	.14	.001	.002
%RSD	.1741	.4397	.4611	.4143	.6198	.3550	.3386	.0245	.0892
#1	2.174	42.49	43.47	42.48	2.227	2.029	41.16	2.104	1.943
#2	2.181	42.66	43.63	42.57	2.205	2.036	41.25	2.104	1.944
#3	2.180	42.28	43.23	42.23	2.201	2.044	40.98	2.105	1.940
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					2.000				
Range					10.00%				

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.080	2.112	2.158	2.153	2.118	2.198	1.969	F2.201	1.987
Stddev	.002	.005	.002	.001	.007	.002	.001	.001	.001
%RSD	.0814	.2376	.1009	.0538	.3245	.1080	.0694	.0461	.0375
#1	2.080	2.118	2.158	2.154	2.122	2.200	1.970	2.200	1.986
#2	2.078	2.109	2.156	2.153	2.123	2.197	1.969	2.202	1.987
#3	2.082	2.110	2.160	2.152	2.110	2.196	1.967	2.201	1.986
Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
Value								2.000	
Range								10.00%	

Zoom In
Zoom Out

Sample Name: CCV Acquired: 4/3/2015 0:19:02 Type: QC
Method: 60102007_041712(v212) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2729.6	7462.1	43534.	3511.0
Stddev	5.0	5.8	127.	27.8
%RSD	.18208	.07714	.29267	.79108
#1	2731.7	7463.9	43387.	3509.6
#2	2724.0	7455.7	43602.	3484.0
#3	2733.2	7466.8	43613.	3539.5

Zoom In
Zoom Out

Sample Name: CCB Acquired: 4/3/2015 0:23:09 Type: QC
Method: 60102007_041712(v212) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0001	.0170	.0000	.0002	.0002	.0430	.0001	.0001	.0001
Stddev	.0001	.0024	.000	.0003	.0001	.0024	.0000	.0001	.0001
%RSD	121.4	13.97	463.3	168.1	44.60	5.619	8.684	89.06	90.90
#1	.0000	.0196	.0000	-.0001	.0002	.0404	.0001	.0001	.0000
#2	.0000	.0150	.0000	.0001	.0003	.0452	.0001	.0002	.0001
#3	.0002	.0163	.0000	.0005	.0001	.0435	.0001	.0000	.0002
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0008	F.0730	-.0007	.0134	F.0010	F.0043	-.0111	.0002	.0010
Stddev	.0002	.0103	.0018	.0236	.0000	.0014	.0095	.0001	.0003
%RSD	20.47	14.18	272.9	177.0	1.669	31.49	85.57	71.74	32.87
#1	.0010	.0845	-.0005	.0406	.0010	.0057	-.0197	.0003	.0013
#2	.0007	.0699	-.0026	-.0018	.0010	.0041	-.0126	.0000	.0009
#3	.0008	.0645	.0010	.0013	.0010	.0030	-.0009	.0003	.0007
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit		.0500			.0010	.0010			
Low Limit		-.0500			-.0010	-.0010			

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0011	.0014	.0007	.0002	F.0010	F.0063	.0005	.0003	.0003
Stddev	.0005	.0008	.0003	.0003	.0001	.0003	.0005	.0002	.0000
%RSD	48.13	61.59	45.76	223.9	5.716	4.336	109.8	76.89	1.511
#1	.0012	.0008	.0010	.0003	.0010	.0066	.0003	.0005	.0003
#2	.0015	.0010	.0005	.0004	.0011	.0063	.0000	.0001	.0003
#3	.0005	.0023	.0005	-.0002	.0010	.0060	.0010	.0003	.0003
Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit					.0010	.0020			
Low Limit					-.0010	-.0020			

Zoom In
Zoom Out

Sample Name: CCB Acquired: 4/3/2015 0:23:09 Type: QC
Method: 60102007_041712(v212) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3283.3	7902.9	46308.	3636.0
Stddev	7.0	9.0	107.	5.0
%RSD	.21465	.11392	.23091	.13816
#1	3281.9	7902.6	46282.	3640.4
#2	3291.0	7912.1	46217.	3630.5
#3	3277.1	7894.1	46426.	3637.1

Zoom In
Zoom Out

Sample Name: MP28745-SD1 Acquired: 4/3/2015 0:27:24 Type: Unk
Method: 60102007_041712(v212) Mode: CONC Corr. Factor: 5.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)
Avg	.0072	776.2	.1360	2.942	-.0001	1950.	.0890	.2155	2.206
Stddev	.0023	2.1	.0030	.009	.0004	10.	.0003	.0004	.004
%RSD	32.07	.2692	2.219	.2980	459.0	.5013	.3124	.1759	.2021
#1	.0046	778.6	.1339	2.951	.0001	1958.	.0889	.2158	2.208
#2	.0081	775.3	.1395	2.940	.0002	1939.	.0889	.2157	2.201
#3	.0089	774.7	.1346	2.934	-.0005	1952.	.0894	.2151	2.209

Elem	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
IS Ref	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)
Avg	1.293	827.4	19.92	34.62	F35.53	.1101	6.807	.4168	1.166
Stddev	.002	2.4	.15	.27	.21	.0013	.017	.0014	.002
%RSD	.1345	.2885	.7615	.7654	.5967	1.188	.2523	.3462	.1835
#1	1.291	830.1	19.84	34.84	35.36	.1089	6.804	.4171	1.165
#2	1.293	826.3	19.82	34.33	35.45	.1115	6.825	.4152	1.165
#3	1.295	825.8	20.09	34.70	35.76	.1100	6.791	.4180	1.169

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	.0301	.0077	3.671	.0328	F50.08	F28.26	-.0104	.6944	10.86
Stddev	.0067	.0097	.002	.0016	.70	.19	.0035	.0027	.02
%RSD	22.39	127.2	.0625	4.817	1.390	.6625	34.18	.3949	.2034
#1	.0224	.0056	3.672	.0345	50.88	28.08	-.0076	.6916	10.84
#2	.0344	-.0009	3.673	.0314	49.65	28.24	-.0091	.6947	10.87
#3	.0336	.0183	3.668	.0324	49.70	28.45	-.0144	.6970	10.88

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	2555.9	9449.4	54322.	4633.9
Stddev	3.9	7.6	233.	37.6
%RSD	.15083	.08061	.42848	.81180
#1	2553.2	9455.5	54545.	4594.6
#2	2560.3	9451.9	54338.	4669.5
#3	2554.1	9440.9	54081.	4637.5

Zoom In Zoom Out

Sample Name: MP28745-PS1 Acquired: 4/3/2015 0:32:03 Type: Unk
Method: 60102007_041712(v212) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)
Avg	.0284	391.4	.1178	1.610	.0201	F801.2	.0661	.1172	1.060
Stddev	.0001	.7	.0006	.008	.0000	3.4	.0005	.0004	.002
%RSD	.3207	.1717	.5406	.4779	.1480	.4202	.7534	.3691	.1684
#1	.0284	391.9	.1177	1.619	.0201	803.4	.0655	.1167	1.062
#2	.0284	390.6	.1184	1.608	.0201	797.3	.0663	.1174	1.060
#3	.0283	391.6	.1172	1.604	.0202	802.9	.0664	.1175	1.058

Elem	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
IS Ref	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)
Avg	.7084	339.9	14.92	17.45	F14.14	.0905	7.922	.2403	1.276
Stddev	.0017	3.8	.05	.10	.05	.0001	.011	.0003	.005
%RSD	.2421	1.119	.3381	.5487	.3283	.0849	.1362	.1149	.3581
#1	.7101	344.2	14.98	17.56	14.19	.0904	7.934	.2400	1.271
#2	.7067	338.5	14.90	17.40	14.13	.0906	7.913	.2404	1.281
#3	.7084	337.0	14.89	17.39	14.10	.0906	7.919	.2405	1.277

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	.0651	.0481	1.923	.0346	F21.97	F13.00	.0145	.3552	F4.871
Stddev	.0007	.0015	.004	.0001	.23	.06	.0025	.0002	.003
%RSD	1.150	3.021	.1820	.2923	1.048	.4876	17.03	.0629	.0625
#1	.0642	.0497	1.919	.0347	22.19	13.06	.0167	.3554	4.874
#2	.0655	.0477	1.924	.0345	21.73	13.00	.0118	.3549	4.868
#3	.0655	.0469	1.926	.0347	21.99	12.93	.0151	.3552	4.871

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	1967.6	15372.	88933.	8278.5
Stddev	4.6	11.	410.	55.4
%RSD	.23534	.07288	.46073	.66934
#1	1970.6	15376.	88492.	8214.9
#2	1962.2	15360.	89007.	8304.0
#3	1969.9	15381.	89301.	8316.6

Zoom In Zoom Out

Sample Name: MP28745-S1 Acquired: 4/3/2015 0:36:55 Type: Unk
Method: 60102007_041712(v212) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)
Avg	.0271	412.7	.9050	2.445	.0188	F753.7	.0706	.2681	1.146
Stddev	.0001	4.8	.0019	.020	.0000	3.0	.0004	.0001	.004
%RSD	.5480	1.160	.2125	.8140	.0926	.3938	.5326	.0481	.3290
#1	.0270	411.1	.9046	2.427	.0188	753.2	.0706	.2681	1.142
#2	.0272	418.1	.9071	2.466	.0188	756.9	.0702	.2679	1.146
#3	.0272	409.0	.9033	2.443	.0188	751.0	.0709	.2682	1.150

Elem	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
IS Ref	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)
Avg	.8218	389.5	20.99	23.79	F14.64	.2175	13.55	.3891	1.814
Stddev	.0019	2.7	.06	.05	.07	.0002	.02	.0002	.004
%RSD	.2331	.6822	.3015	.2274	.4442	.1017	.1273	.0467	.2302
#1	.8233	389.3	21.01	23.84	14.58	.2174	13.54	.3893	1.817
#2	.8224	392.3	21.05	23.81	14.63	.2178	13.57	.3889	1.809
#3	.8196	387.0	20.92	23.73	14.71	.2173	13.54	.3891	1.815

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	.1018	.8003	1.533	.1857	F22.88	F12.83	1.673	.5400	F6.362
Stddev	.0014	.0006	.001	.0005	.23	.09	.003	.0010	.044
%RSD	1.350	.0787	.0825	.2492	1.022	.7168	.1933	.1882	.6937
#1	.1030	.8001	1.532	.1862	23.02	12.73	1.676	.5388	6.393
#2	.1003	.8010	1.531	.1854	23.01	12.87	1.670	.5404	6.311
#3	.1021	.7998	1.534	.1855	22.61	12.90	1.672	.5407	6.381

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	1867.6	15797.	91742.	8644.0
Stddev	4.6	11.	315.	58.7
%RSD	.24424	.07199	.34358	.67932
#1	1864.0	15792.	92076.	8596.7
#2	1872.7	15810.	91702.	8625.6
#3	1866.1	15789.	91449.	8709.8

Zoom In Zoom Out

Sample Name: MP28745-S2 Acquired: 4/3/2015 0:42:03 Type: Unk
Method: 60102007_041712(v212) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)
Avg	.0252	435.2	.8201	2.462	.0166	F795.5	.0700	.2539	1.183
Stddev	.0002	3.1	.0007	.045	.0001	7.8	.0003	.0002	.002
%RSD	.6624	.7163	.0844	1.827	.4431	.9757	.4974	.0954	.1433
#1	.0251	436.0	.8198	2.415	.0165	801.2	.0702	.2542	1.182
#2	.0254	437.8	.8209	2.469	.0167	786.7	.0702	.2537	1.185
#3	.0251	431.7	.8196	2.504	.0166	798.6	.0696	.2539	1.181

Elem	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
IS Ref	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)
Avg	.8701	349.7	20.94	23.86	F14.79	.1965	12.89	.3727	1.697
Stddev	.0013	3.7	.06	.03	.03	.0002	.02	.0002	.010
%RSD	.1464	1.047	.3096	.1208	.2217	.0769	.1264	.0517	.5637
#1	.8707	347.5	21.00	23.88	14.80	.1964	12.90	.3728	1.694
#2	.8687	347.6	20.95	23.83	14.82	.1965	12.89	.3725	1.690
#3	.8710	353.9	20.87	23.87	14.76	.1967	12.87	.3728	1.708

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	.0969	.7159	1.595	.1610	F23.30	F13.62	1.643	.5416	F4.904
Stddev	.0007	.0021	.003	.0005	.11	.03	.007	.0010	.006
%RSD	.7677	.3001	.1896	.3174	.4672	.2479	.4197	.1872	.1269
#1	.0961	.7161	1.597	.1613	23.18	13.60	1.638	.5423	4.905
#2	.0972	.7179	1.597	.1612	23.32	13.66	1.640	.5420	4.897
#3	.0975	.7136	1.592	.1604	23.40	13.61	1.651	.5404	4.910

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	1801.2	17435.	101350.	9686.3
Stddev	5.8	7.	166.	60.4
%RSD	.32464	.04274	.16383	.62342
#1	1805.5	17427.	101340.	9653.8
#2	1803.5	17436.	101200.	9756.0
#3	1794.5	17442.	101530.	9649.2

Zoom In Zoom Out

Sample Name: CRIA Acquired: 4/3/2015 0:47:04 Type: Unk
Method: 60102007_041712(v212) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	.0090	.2534	.0082	.1903	.0043	1.058	.0041	.0428	.0086	.0243
Stddev	.0001	.0078	.0001	.0007	.0000	.020	.0001	.0001	.0002	.0001
%RSD	1.105	3.089	.6807	.3535	.5537	1.885	1.220	.2739	1.809	.4355
#1	.0089	.2589	.0082	.1896	.0042	1.078	.0042	.0427	.0087	.0242
#2	.0089	.2445	.0083	.1903	.0042	1.059	.0041	.0429	.0084	.0243
#3	.0091	.2570	.0082	.1909	.0043	1.038	.0041	.0428	.0087	.0244

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	.5236	9.015	4.425	.0174	.0409	8.672	.0365	.0048	.0038	.0096
Stddev	.0487	.015	.015	.0000	.0000	.026	.0000	.0005	.0010	.0008
%RSD	9.297	.1654	.3374	.2455	.0702	.3029	.1313	9.936	26.62	8.403
#1	.5781	9.006	4.440	.0174	.0408	8.653	.0365	.0048	.0032	.0103
#2	.5084	9.008	4.424	.0174	.0409	8.661	.0364	.0043	.0032	.0087
#3	.4843	9.032	4.410	.0173	.0409	8.702	.0365	.0053	.0049	.0098

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	.1330	.0467	.0134	.0280	.0090	.0444	.0192
Stddev	.0004	.0003	.0003	.0015	.0002	.0002	.0001
%RSD	.2659	.6423	2.305	5.345	2.195	.4303	.3402
#1	.1333	.0464	.0138	.0296	.0090	.0445	.0192
#2	.1326	.0470	.0133	.0279	.0087	.0442	.0191
#3	.1329	.0466	.0132	.0266	.0091	.0446	.0192

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	3123.9	7792.9	45274.	3440.2
Stddev	7.2	14.4	94.	13.3
%RSD	.22926	.18498	.20725	.38663
#1	3130.8	7809.6	45168.	3433.2
#2	3124.4	7784.7	45345.	3455.5
#3	3116.6	7784.5	45310.	3431.8

Zoom In Zoom Out

Sample Name: ICSA Acquired: 4/3/2015 0:51:13 Type: Unk
Method: 60102007_041712(v212) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)
Avg	.0005	492.6	-.0003	.0006	.0001	463.8	.0008	-.0004	.0004
Stddev	.0000	.6	.0004	.0001	.0001	1.9	.0001	.0002	.0002
%RSD	2.523	.1162	172.5	22.63	122.2	.4103	8.361	51.82	46.80
#1	.0005	492.3	-.0007	.0005	.0001	466.0	.0007	-.0002	.0005
#2	.0005	492.3	.0001	.0005	.0002	462.4	.0008	-.0004	.0006
#3	.0005	493.3	-.0001	.0008	.0000	463.1	.0008	-.0006	.0002

Elem	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
IS Ref	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)
Avg	.0009	186.5	.0941	F506.9	.0007	.0007	.1338	.0016	-.0043
Stddev	.0002	.6	.0059	1.8	.0000	.0001	.0062	.0002	.0015
%RSD	21.51	.3097	6.234	.3457	6.162	16.54	4.659	10.22	35.54
#1	.0009	186.9	.0876	508.4	.0007	.0007	.1277	.0017	-.0032
#2	.0007	185.8	.0956	505.0	.0007	.0006	.1334	.0014	-.0037
#3	.0011	186.8	.0990	507.2	.0007	.0008	.1402	.0015	-.0061

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	-.0015	.0016	.0499	.0005	.0011	.0014	-.0002	.0003	-.0014
Stddev	.0007	.0000	.0005	.0006	.0002	.0002	.0010	.0002	.0001
%RSD	47.03	2.492	.9898	106.8	16.73	13.07	478.8	57.77	5.032
#1	-.0015	.0016	.0494	.0009	.0013	.0015	.0001	.0002	-.0014
#2	-.0023	.0016	.0503	-.0001	.0012	.0015	.0006	.0002	-.0014
#3	-.0008	.0016	.0501	.0008	.0009	.0012	-.0014	.0005	-.0015

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	2355.4	6793.3	38578.	3297.1
Stddev	1.1	4.1	57.	22.5
%RSD	.04660	.06097	.14783	.68096
#1	2356.1	6794.3	38588.	3281.0
#2	2354.1	6788.7	38517.	3322.8
#3	2355.8	6796.8	38629.	3287.6

Zoom In Zoom Out

Sample Name: ICSAB Acquired: 4/3/2015 0:55:35 Type: Unk
Method: 60102007_041712(v212) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)
Avg	F1.069	490.2	1.102	.5767	.5172	470.9	.8966	.4614	.4871
Stddev	.001	4.3	.002	.0008	.0022	6.2	.0000	.0000	.0010
%RSD	.1312	.8693	.2039	.1380	.4335	1.322	.0035	.0069	.2117
#1	1.069	490.8	1.105	.5775	.5171	476.0	.8966	.4614	.4880
#2	1.068	494.2	1.101	.5767	.5195	472.8	.8966	.4614	.4873
#3	1.071	485.7	1.101	.5759	.5150	464.0	.8965	.4615	.4860

Elem	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
IS Ref	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)
Avg	.5772	188.5	.0611	F502.2	.5387	.9535	.1492	.9764	.9190
Stddev	.0011	.8	.0013	2.2	.0010	.0003	.0037	.0004	.0016
%RSD	.1828	.4071	2.148	.4435	.1941	.0331	2.458	.0459	.1716
#1	.5760	189.0	.0597	503.6	.5396	.9537	.1533	.9768	.9173
#2	.5774	189.0	.0613	503.5	.5375	.9531	.1462	.9759	.9192
#3	.5781	187.7	.0623	499.7	.5388	.9536	.1480	.9764	.9204

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	1.088	1.067	.1073	1.002	1.057	1.068	.9226	.5196	.9275
Stddev	.002	.005	.0005	.000	.003	.002	.0024	.0007	.0014
%RSD	.2104	.4317	.4321	.0136	.2459	.1424	.2645	.1352	.1538
#1	1.091	1.070	.1071	1.002	1.057	1.068	.9203	.5200	.9267
#2	1.088	1.070	.1078	1.002	1.059	1.066	.9252	.5188	.9268
#3	1.086	1.062	.1070	1.002	1.054	1.069	.9224	.5200	.9292

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	2332.3	6775.9	38779.	3301.7
Stddev	2.1	4.6	115.	23.3
%RSD	.09141	.06727	.29732	.70556
#1	2334.4	6779.3	38665.	3287.3
#2	2332.4	6777.8	38896.	3289.3
#3	2330.2	6770.8	38775.	3328.6

Zoom In Zoom Out

Sample Name: CCV Acquired: 4/3/2015 0:59:51 Type: QC
Method: 60102007_041712(v212) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F.2783	40.37	2.108	F2.287	2.068	40.38	1.983	1.991	2.045
Stddev	.0005	.03	.004	.002	.002	.08	.001	.001	.002
%RSD	.1877	.0744	.2127	.0999	.1075	.1913	.0458	.0310	.1043
#1	.2779	40.34	2.112	2.288	2.071	40.44	1.982	1.991	2.047
#2	.2781	40.39	2.103	2.285	2.067	40.41	1.984	1.991	2.045
#3	.2788	40.39	2.109	2.289	2.067	40.29	1.984	1.992	2.042
Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	.2500			2.000					
Range	10.00%			10.00%					

Elem	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.171	41.85	43.48	41.98	F2.204	2.040	41.47	2.100	1.952
Stddev	.004	.02	.10	.11	.009	.006	.02	.001	.001
%RSD	.1840	.0591	.2313	.2717	.4034	.2899	.0524	.0636	.0637
#1	2.175	41.88	43.59	42.11	2.195	2.035	41.49	2.101	1.952
#2	2.170	41.85	43.41	41.92	2.206	2.039	41.45	2.099	1.951
#3	2.168	41.83	43.43	41.90	2.212	2.046	41.48	2.099	1.954
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					2.000				
Range					10.00%				

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.079	2.111	2.154	2.145	2.112	2.177	1.980	2.188	1.992
Stddev	.004	.001	.003	.002	.004	.005	.002	.002	.002
%RSD	.1804	.0231	.1336	.0825	.2116	.2293	.0751	.1043	.1123
#1	2.081	2.111	2.157	2.145	2.115	2.180	1.980	2.191	1.990
#2	2.075	2.112	2.154	2.143	2.107	2.171	1.978	2.188	1.991
#3	2.082	2.111	2.151	2.146	2.114	2.180	1.981	2.186	1.994
Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value									
Range									

Zoom In Zoom Out

Sample Name: CCV Acquired: 4/3/2015 0:59:51 Type: QC
Method: 60102007_041712(v212) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2709.5	7427.0	43193.	3420.6
Stddev	2.2	1.8	32.	24.6
%RSD	.08128	.02420	.07297	.71853
#1	2707.9	7424.9	43209.	3400.7
#2	2712.0	7427.9	43213.	3413.0
#3	2708.6	7428.1	43156.	3448.0

Zoom In
Zoom Out

Sample Name: CCB Acquired: 4/3/2015 1:03:59 Type: QC
Method: 60102007_041712(v212) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0003	.0074	-.0001	.0004	.0001	.0224	.0001	.0000	.0000
Stddev	.0004	.0054	.0009	.0001	.0001	.0019	.0000	.0000	.0004
%RSD	132.4	72.83	1197.	17.95	43.72	8.429	6.754	138.9	1424.
#1	.0002	.0025	.0006	.0005	.0001	.0203	.0001	.0000	-.0002
#2	.0007	.0065	.0002	.0004	.0001	.0239	.0001	.0000	.0005
#3	.0000	.0132	-.0010	.0004	.0002	.0229	.0001	.0000	-.0002
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0007	F.0501	.0253	-.0093	.0004	F.0049	-.0128	.0003	.0006
Stddev	.0002	.0109	.0191	.0243	.0001	.0015	.0037	.0001	.0002
%RSD	30.87	21.72	75.25	260.8	12.26	30.31	28.88	53.05	40.30
#1	.0005	.0604	.0472	-.0298	.0004	.0065	-.0150	.0004	.0004
#2	.0009	.0513	.0123	-.0157	.0005	.0047	-.0085	.0002	.0005
#3	.0006	.0387	.0165	.0175	.0004	.0036	-.0149	.0002	.0008
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit		.0500				.0010			
Low Limit		-.0500				-.0010			

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0009	.0011	.0001	.0003	.0003	F.0025	.0006	.0002	.0002
Stddev	.0004	.0014	.0003	.0001	.0001	.0001	.0003	.0001	.0000
%RSD	47.70	122.2	244.3	46.08	25.22	5.059	56.66	26.50	11.75
#1	.0010	-.0004	.0005	.0004	.0004	.0026	.0009	.0003	.0002
#2	.0004	.0023	.0000	.0003	.0002	.0025	.0003	.0002	.0002
#3	.0012	.0015	-.0001	.0002	.0003	.0024	.0005	.0002	.0001
Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit						.0020			
Low Limit						-.0020			

Zoom In
Zoom Out

Sample Name: CCB Acquired: 4/3/2015 1:03:59 Type: QC
Method: 60102007_041712(v212) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3256.2	7841.0	45678.	3406.0
Stddev	4.0	6.5	176.	22.2
%RSD	.12433	.08274	.38502	.65300
#1	3259.2	7836.1	45481.	3400.7
#2	3251.6	7848.4	45736.	3387.0
#3	3257.8	7838.6	45818.	3430.5

Element, Wavelength and Order	Use?	# IECs	IEC	k1	k2	Calc-in-fit?
Ag 328.068 {103}	X	3	V	-0.009834	0.000000	No
			Fe	0.000002	0.000000	No
			Mg	0.000000	0.000000	No
Al 396.152 { 85}	X	1	Mo	0.035224	0.000000	No
As 189.042 {478}	X	5	Fe	-0.000077	0.000000	No
			Cr	-0.000226	0.000000	No
			Mo	-0.000017	0.000000	No
			Al	0.000004	0.000000	No
			Ca	0.000002	0.000000	No
Ba 455.403 { 74}	X	1	Fe	0.000004	0.000000	No
Be 313.042 {108}	X	2	V	0.000115	0.000000	No
			Ti	-0.000059	0.000000	No
Ca 317.933 {106}	X	None				
Cd 226.502 {449}	X	4	Fe	0.000089	0.000000	No
			Ca	0.000001	0.000000	No
			Al	-0.000001	0.000000	No
			Ti	0.000151	0.000000	No
Co 228.616 {447}	X	3	Mo	-0.001220	0.000000	No
			Ti	0.003012	0.000000	No
			Fe	0.000004	0.000000	No
Cr 267.716 {126}	X	3	Al	0.000001	0.000000	No
			Fe	0.000001	0.000000	No
			Ca	0.000002	0.000000	No
Cu 324.754 {104}	X	10	Fe	-0.000183	0.000000	No
			Ca	0.000002	0.000000	No
			Mo	0.000528	0.000000	No
			Sn	-0.000012	0.000000	No
			V	-0.000158	0.000000	No
			Ti	-0.000251	0.000000	No
			Al	0.000008	0.000000	No
			Mg	0.000005	0.000000	No
			Co	-0.000787	0.000000	No
			Cd	0.000240	0.000000	No
Fe 259.940 {130}	X	None				
In 230.606 {446}*	X	None				
K 766.490 { 44}	X	None				
Mg 279.079 {121}	X	None				
Mn 257.610 {131}	X	2	Fe	0.000008	0.000000	No
			Mg	0.000000	0.000000	No
Mo 202.030 {467}	X	1	Fe	-0.000019	0.000000	No
Na 589.592 { 57}	X	None				
Ni 231.604 {445}	X	7	Fe	-0.000032	0.000000	No
			Co	-0.000054	0.000000	No
			Mo	0.000005	0.000000	No
			Sb	-0.000120	0.000000	No
			Al	0.000003	0.000000	No
			Be	-0.000269	0.000000	No
			Tl	0.000440	0.000000	No
Pb 220.353 {453}	X	9	Al	0.000249	0.000000	No
			Fe	0.000000	0.000000	No
			Mo	-0.001012	0.000000	No
			Cu	0.001070	0.000000	No
			Ti	0.000036	0.000000	No
			Si	0.000071	0.000000	No
			Ca	0.000003	0.000000	No
			Cr	0.000050	0.000000	No
			Mg	0.000000	0.000000	No

Element, Wavelength and Order	Use?	# IECs	IEC	k1	k2	Calc-in-fit?
Sb 206.833 {463}	☒	10	Fe	0.000059	0.000000	No
			Cr	0.012140	0.000000	No
			Mo	-0.004076	0.000000	No
			V	-0.000611	0.000000	No
			Sn	-0.010736	0.000000	No
			Ti	0.000040	0.000000	No
			Ca	-0.000001	0.000000	No
			Ni	-0.000438	0.000000	No
			Mg	0.000000	0.000000	No
			Al	-0.000002	0.000000	No
Se 196.090 {472}	☒	10	Fe	-0.000015	0.000000	No
			Ca	-0.000000	0.000000	No
			Mn	0.000574	0.000000	No
			Mo	0.000111	0.000000	No
			Al	-0.000034	0.000000	No
			V	0.000000	0.000000	No
			Zn	0.000000	0.000000	No
			Sr	0.000137	0.000000	No
			As	-0.000032	0.000000	No
			Be	0.000212	0.000000	No
Si 212.412 {459}	☒	1	Mo	0.019120	0.000000	No
Sn 189.989 {477}	☒	None				
Sr 407.771 { 83}	☒	1	Ca	0.000017	0.000000	No
Ti 334.941 {101}	☒	1	Ca	-0.000008	0.000000	No
Tl 190.856 {477}	☒	11	Co	0.001145	0.000000	No
			Fe	0.000007	0.000000	No
			Al	-0.000011	0.000000	No
			Ba	-0.000051	0.000000	No
			Ti	-0.002651	0.000000	No
			Sb	0.000012	0.000000	No
			Ca	0.000003	0.000000	No
			Cr	0.000230	0.000000	No
			Mg	-0.000003	0.000000	No
			Mn	0.000818	0.000000	No
			V	-0.038621	0.000000	No
V 292.402 {115}	☒	5	Fe	0.000015	0.000000	No
			Cr	-0.002590	0.000000	No
			Mo	-0.005797	0.000000	No
			Ti	0.000364	0.000000	No
			Mn	-0.000693	0.000000	No
Y 224.306 {450}*	☒	None				
Y 360.073 { 94}*	☒	None				
Y 371.030 { 91}*	☒	None				
Zn 206.200 {463}	☒	5	Cr	-0.000965	0.000000	No
			Al	0.000016	0.000000	No
			Ca	0.000003	0.000000	No
			Fe	-0.000026	0.000000	No
			As	0.001128	0.000000	No

	Element, Wavelength and Order	Date of Fit	Date of Cal.	Type of Fit	Weighting	A0	A1	A2	n (Exponent)
	Ag 328.068 {103}	4/2/2015 7:40:27	4/2/2015 7:15:05	Linear	1/Conc	0.000177	0.615439	0.000000	1.000000
	Al 396.152 { 85}	4/2/2015 7:40:27	4/2/2015 7:15:05	Linear	1/Conc	0.002484	0.196940	0.000000	1.000000
	As 189.042 {478}	4/2/2015 7:40:27	4/2/2015 7:15:05	Linear	1/Conc	-0.000274	0.200230	0.000000	1.000000
	Ba 455.403 { 74}	4/2/2015 7:40:27	4/2/2015 7:15:05	Linear	1/Conc	0.008709	11.573061	0.000000	1.000000
	Be 313.042 {108}	4/2/2015 7:40:27	4/2/2015 7:15:05	Linear	1/Conc	0.000096	8.594026	0.000000	1.000000
	Ca 317.933 {106}	4/2/2015 7:40:27	4/2/2015 7:15:05	Linear	1/Conc	0.007962	0.281029	0.000000	1.000000
	Cd 226.502 {449}	4/2/2015 7:40:27	4/2/2015 7:15:05	Linear	1/Conc	-0.000474	5.111835	0.000000	1.000000
	Co 228.616 {447}	4/2/2015 7:40:27	4/2/2015 7:15:05	Linear	1/Conc	0.000304	2.406849	0.000000	1.000000
	Cr 267.716 {126}	4/2/2015 7:40:27	4/2/2015 7:15:05	Linear	1/Conc	0.000111	0.553798	0.000000	1.000000
	Cu 324.754 {104}	4/2/2015 7:40:27	4/2/2015 7:15:05	Linear	1/Conc	0.003626	0.844407	0.000000	1.000000
	Fe 259.940 {130}	4/2/2015 7:40:27	4/2/2015 7:15:05	Linear	1/Conc	0.001991	0.130797	0.000000	1.000000
	In 230.606 {446}*	4/2/2015 7:40:27	5/5/2010 12:30:54	Linear	1/Conc	0.000000	0.000000	0.000000	1.000000
	K 766.490 { 44}	4/2/2015 7:40:27	4/2/2015 7:15:05	Linear	1/Conc	-0.015794	0.167078	0.000000	1.000000
	Mg 279.079 {121}	4/2/2015 7:40:27	4/2/2015 7:15:05	Linear	1/Conc	-0.000222	0.023580	0.000000	1.000000
	Mn 257.610 {131}	4/2/2015 7:40:27	4/2/2015 7:15:05	Linear	1/Conc	0.000392	3.055741	0.000000	1.000000
	Mo 202.030 {467}	4/2/2015 7:40:27	4/2/2015 7:15:05	Linear	1/Conc	0.000763	1.203319	0.000000	1.000000
	Na 589.592 { 57}	4/2/2015 7:40:27	4/2/2015 7:15:05	Linear	1/Conc	0.021683	0.565900	0.000000	1.000000
	Ni 231.604 {445}	4/2/2015 7:40:27	4/2/2015 7:15:05	Linear	1/Conc	-0.000273	1.349601	0.000000	1.000000
	Pb 220.353 {453}	4/2/2015 7:40:27	4/2/2015 7:15:05	Linear	1/Conc	-0.003269	1.269262	0.000000	1.000000
	Sb 206.833 {463}	4/2/2015 7:40:27	4/2/2015 7:15:05	Linear	1/Conc	0.000891	0.247613	0.000000	1.000000
	Se 196.090 {472}	4/2/2015 7:40:27	4/2/2015 7:15:05	Linear	1/Conc	-0.000602	0.147065	0.000000	1.000000
	Si 212.412 {459}	4/2/2015 7:40:27	4/2/2015 7:15:05	Linear	1/Conc	0.006438	0.355965	0.000000	1.000000
	Sn 189.989 {477}	4/2/2015 7:40:27	4/2/2015 7:15:05	Linear	1/Conc	0.000491	0.445886	0.000000	1.000000
	Sr 407.771 { 83}	4/2/2015 7:40:27	4/2/2015 7:15:05	Linear	1/Conc	0.001471	19.624896	0.000000	1.000000
	Ti 334.941 {101}	4/2/2015 7:40:27	4/2/2015 7:15:05	Linear	1/Conc	0.002848	2.019737	0.000000	1.000000
	Tl 190.856 {477}	4/2/2015 7:40:27	4/2/2015 7:15:05	Linear	1/Conc	-0.003671	0.639906	0.000000	1.000000
	V 292.402 {115}	4/2/2015 7:40:27	4/2/2015 7:15:05	Linear	1/Conc	-0.000157	0.716248	0.000000	1.000000
	Y 224.306 {450}*	<not fit>	<Never Calibrated>	Linear	1/Conc	0.000000	0.000000	0.000000	1.000000
	Y 360.073 { 94}*	<not fit>	<Never Calibrated>	Linear	1/Conc	0.000000	0.000000	0.000000	1.000000
	Y 371.030 { 91}*	<not fit>	<Never Calibrated>	Linear	1/Conc	0.000000	0.000000	0.000000	1.000000
	Zn 206.200 {463}	4/2/2015 7:40:27	4/2/2015 7:15:05	Linear	1/Conc	0.002429	3.103446	0.000000	1.000000

Element, Wavelength and Order	Correlation	Std Error of Est	Predicted MDL	Predicted MQL	Status	Reslope		QC Norm	
						Slope	Y-int	Slope factor	Offset
Ag 328.068 {103}	0.999909	0.000077	0.000429	0.001429	OK.	1.000000	0.000000	1	0
Al 396.152 { 85}	0.999943	0.003392	0.010919	0.036395	OK.	1.000000	0.000000	1	0
As 189.042 {478}	0.999954	0.000154	0.000687	0.002291	OK.	1.000000	0.000000	1	0
Ba 455.403 { 74}	0.999986	0.004920	0.000257	0.000856	OK.	1.000000	0.000000	1	0
Be 313.042 {108}	0.999974	0.005036	0.000093	0.000311	OK.	1.000000	0.000000	1	0
Ca 317.933 {106}	0.999961	0.003990	0.003509	0.011696	OK.	1.000000	0.000000	1	0
Cd 226.502 {449}	0.999995	0.001279	0.000042	0.000140	OK.	1.000000	0.000000	1	0
Co 228.616 {447}	0.999991	0.000809	0.000095	0.000318	OK.	1.000000	0.000000	1	0
Cr 267.716 {126}	0.999969	0.000350	0.000288	0.000960	OK.	1.000000	0.000000	1	0
Cu 324.754 {104}	0.999989	0.000323	0.000280	0.000932	OK.	1.000000	0.000000	1	0
Fe 259.940 {130}	0.999923	0.002609	0.003489	0.011629	OK.	1.000000	0.000000	1	0
In 230.606 {446}*	0.000000	0.000000	-1.000000	-1.000000	Warnin	1.000000	0.000000	1	0
K 766.490 { 44}	0.999914	0.003535	0.027112	0.090373	OK.	1.000000	0.000000	1	0
Mg 279.079 {121}	0.999981	0.000232	0.024855	0.082850	OK.	1.000000	0.000000	1	0
Mn 257.610 {131}	0.999814	0.004744	0.000046	0.000152	OK.	1.000000	0.000000	1	0
Mo 202.030 {467}	0.999982	0.000583	0.000120	0.000399	OK.	1.000000	0.000000	1	0
Na 589.592 { 57}	0.999948	0.009262	0.008063	0.026878	OK.	1.000000	0.000000	1	0
Ni 231.604 {445}	0.999969	0.000858	0.000167	0.000556	OK.	1.000000	0.000000	1	0
Pb 220.353 {453}	0.999870	0.001657	0.000451	0.001504	OK.	1.000000	0.000000	1	0
Sb 206.833 {463}	0.999967	0.000161	0.000909	0.003028	OK.	1.000000	0.000000	1	0
Se 196.090 {472}	0.999982	0.000071	0.001439	0.004795	OK.	1.000000	0.000000	1	0
Si 212.412 {459}	0.983275	0.005412	0.000452	0.001506	OK.	1.000000	0.000000	1	0
Sn 189.989 {477}	0.999834	0.000655	0.000259	0.000864	OK.	1.000000	0.000000	1	0
Sr 407.771 { 83}	0.999942	0.017029	0.000093	0.000310	OK.	1.000000	0.000000	1	0
Ti 334.941 {101}	0.999800	0.003254	0.000120	0.000400	OK.	1.000000	0.000000	1	0
Tl 190.856 {477}	0.999993	0.000188	0.000577	0.001922	OK.	1.000000	0.000000	1	0
V 292.402 {115}	0.999923	0.000711	0.000283	0.000945	OK.	1.000000	0.000000	1	0
Y 224.306 {450}*	0.000000	0.000000	-1.000000	-1.000000	Warnin	1.000000	0.000000	1	0
Y 360.073 { 94}*	0.000000	0.000000	-1.000000	-1.000000	Warnin	1.000000	0.000000	1	0
Y 371.030 { 91}*	0.000000	0.000000	-1.000000	-1.000000	Warnin	1.000000	0.000000	1	0
Zn 206.200 {463}	0.999994	0.000869	0.000050	0.000167	OK.	1.000000	0.000000	1	0

Zoom In
Zoom Out

Sample Name: Blank Acquired: 4/3/2015 7:16:32 Type: Cal
Method: 60102007_042011(v209) Mode: IR Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.0028	.0077	-.0003	-.0052	.0012	.0087	-.0016	-.0007	-.0005
Stddev	.0003	.0026	.0001	.0048	.0021	.0015	.0003	.0001	.0002
%RSD	11.09	34.14	30.22	92.74	181.4	16.96	20.71	18.70	47.93
#1	.0025	.0056	-.0002	.0003	.0010	.0092	-.0014	-.0006	-.0004
#2	.0031	.0106	-.0003	-.0084	-.0009	.0100	-.0014	-.0008	-.0004
#3	.0028	.0069	-.0002	-.0076	.0033	.0071	-.0020	-.0007	-.0008

Elem	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.0025	.0030	-.0208	-.0003	.0008	.0013	-.0608	.0016	.0002
Stddev	.0003	.0013	.0034	.0005	.0000	.0002	.0073	.0002	.0006
%RSD	10.92	44.25	16.29	184.8	6.407	12.38	12.03	13.58	289.5
#1	.0023	.0032	-.0185	-.0008	.0008	.0014	-.0556	.0017	.0004
#2	.0025	.0042	-.0193	.0001	.0008	.0014	-.0575	.0014	.0008
#3	.0028	.0016	-.0247	.0000	.0007	.0011	-.0691	.0018	-.0005

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.0017	-.0008	.0037	.0008	.0040	.0032	-.0030	-.0010	.0010
Stddev	.0003	.0003	.0001	.0002	.0013	.0001	.0001	.0002	.0001
%RSD	17.01	38.62	1.702	22.94	33.52	2.777	4.065	19.94	13.55
#1	.0014	-.0012	.0038	.0011	.0036	.0032	-.0030	-.0008	.0011
#2	.0018	-.0006	.0037	.0007	.0054	.0033	-.0031	-.0010	.0010
#3	.0019	-.0006	.0036	.0008	.0029	.0032	-.0029	-.0012	.0008

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3763.2	8461.0	56554.	2412.4
Stddev	3.5	13.7	438.	42.5
%RSD	.09365	.16194	.77428	1.7632
#1	3762.9	8470.9	56103.	2419.6
#2	3766.9	8466.7	56583.	2450.9
#3	3759.9	8445.4	56977.	2366.8

Zoom In
Zoom Out

Sample Name: LowStd Acquired: 4/3/2015 7:19:58 Type: Cal
Method: 60102007_042011(v209) Mode: IR Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.0346	1.669	.0790	4.063	4.217	2.577	2.386	1.184	.2534	.3241
Stddev	.0003	.007	.0003	.009	.003	.013	.006	.002	.0005	.0007
%RSD	.7875	.4303	.3793	.2144	.0707	.5068	.2355	.1957	.2110	.2273
#1	.0346	1.661	.0793	4.066	4.215	2.578	2.389	1.184	.2531	.3243
#2	.0343	1.674	.0787	4.053	4.216	2.564	2.379	1.181	.2531	.3233
#3	.0348	1.674	.0789	4.070	4.220	2.590	2.389	1.186	.2540	.3247

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1.683	.9629	.3404	1.325	.4930	3.055	.6723	.4454	.0916	.0604
Stddev	.003	.0152	.0008	.001	.0007	.017	.0011	.0009	.0004	.0004
%RSD	.2035	1.576	.2361	.0914	.1407	.5574	.1637	.2127	.4070	.6723
#1	1.682	.9604	.3411	1.325	.4930	3.049	.6727	.4448	.0914	.0604
#2	1.687	.9492	.3405	1.324	.4924	3.041	.6711	.4449	.0914	.0600
#3	1.681	.9792	.3395	1.326	.4938	3.074	.6732	.4465	.0921	.0608

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.2301	.2405	6.335	.7925	.1497	.2942	1.638
Stddev	.0232	.0001	.021	.0011	.0006	.0010	.003
%RSD	10.07	.0216	.3385	.1435	.4062	.3430	.1759
#1	.2168	.2406	6.331	.7929	.1496	.2946	1.638
#2	.2568	.2405	6.317	.7912	.1492	.2930	1.636
#3	.2166	.2405	6.359	.7933	.1504	.2949	1.641

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3506.7	8300.9	55409.	2422.4
Stddev	16.0	35.2	124.	13.7
%RSD	.45485	.42377	.22451	.56631
#1	3518.8	8315.6	55344.	2408.9
#2	3512.5	8326.3	55552.	2421.9
#3	3488.6	8260.7	55331.	2436.3

Zoom In
Zoom Out

Sample Name: MidStd Acquired: 4/3/2015 7:23:16 Type: Cal
Method: 60102007_042011(v209) Mode: IR Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.1308	7.161	.3379	16.81	17.46	11.03	9.913	4.889	1.053	1.323
Stddev	.0008	.079	.0006	.18	.19	.14	.012	.004	.002	.004
%RSD	.6357	1.099	.1777	1.093	1.100	1.232	.1223	.0706	.2273	.2657
#1	.1315	7.072	.3373	16.60	17.25	10.89	9.901	4.885	1.056	1.327
#2	.1299	7.189	.3378	16.86	17.51	11.03	9.911	4.891	1.052	1.321
#3	.1311	7.222	.3385	16.96	17.63	11.16	9.925	4.890	1.051	1.321

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	7.336	4.293	1.466	5.456	1.997	13.23	2.761	1.901	.3803	.2582
Stddev	.079	.051	.014	.045	.003	.15	.002	.004	.0004	.0008
%RSD	1.072	1.195	.9510	.8289	.1600	1.141	.0569	.1938	.1132	.3077
#1	7.246	4.236	1.450	5.489	1.993	13.07	2.760	1.905	.3803	.2574
#2	7.371	4.305	1.472	5.473	1.999	13.24	2.761	1.898	.3807	.2584
#3	7.391	4.337	1.476	5.404	1.998	13.37	2.763	1.899	.3799	.2589

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.5671	.9502	25.19	3.196	.6384	1.183	6.780
Stddev	.0006	.0007	.27	.008	.0006	.004	.001
%RSD	.1109	.0779	1.084	.2629	.0983	.3760	.0184
#1	.5668	.9499	24.87	3.206	.6391	1.188	6.778
#2	.5667	.9496	25.30	3.194	.6379	1.181	6.780
#3	.5678	.9510	25.38	3.189	.6381	1.179	6.781

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3155.2	7843.7	52269.	2341.7
Stddev	9.6	29.8	302.	37.4
%RSD	.30509	.38046	.57796	1.5975
#1	3147.3	7846.0	51923.	2379.7
#2	3165.9	7872.4	52480.	2340.5
#3	3152.4	7812.8	52404.	2304.9

Zoom In
Zoom Out

Sample Name: HighStd Acquired: 4/3/2015 7:26:41 Type: Cal
Method: 60102007_042011(v209) Mode: IR Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.2605	14.13	.6744	33.28	34.14	21.69	19.40	9.556	2.069	2.601
Stddev	.0006	.08	.0013	.24	.21	.14	.01	.006	.004	.004
%RSD	.2399	.5551	.1933	.7198	.6254	.6624	.0747	.0679	.1987	.1647
#1	.2598	14.21	.6730	33.51	34.34	21.85	19.41	9.562	2.065	2.597
#2	.2611	14.05	.6745	33.03	33.91	21.58	19.39	9.549	2.073	2.600
#3	.2606	14.12	.6756	33.31	34.15	21.64	19.42	9.558	2.069	2.605

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	14.32	8.481	2.888	10.42	3.911	25.91	5.371	3.811	.7569	.5137
Stddev	.09	.061	.021	.20	.004	.17	.007	.009	.0005	.0004
%RSD	.6291	.7205	.7354	1.881	.0985	.6707	.1391	.2442	.0633	.0735
#1	14.41	8.547	2.909	10.20	3.915	26.11	5.376	3.814	.7564	.5140
#2	14.24	8.427	2.866	10.50	3.907	25.78	5.363	3.800	.7572	.5133
#3	14.30	8.469	2.889	10.57	3.912	25.85	5.375	3.818	.7572	.5139

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.9955	1.865	49.49	6.173	1.257	2.363	13.23
Stddev	.0005	.003	.37	.005	.003	.003	.02
%RSD	.0518	.1649	.7380	.0797	.2205	.1360	.1572
#1	.9958	1.867	49.87	6.174	1.260	2.360	13.24
#2	.9949	1.862	49.14	6.168	1.254	2.362	13.21
#3	.9958	1.867	49.46	6.178	1.258	2.366	13.25

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2991.3	7647.9	51189.	2290.5
Stddev	10.9	26.8	280.	14.9
%RSD	.36600	.35078	.54742	.65031
#1	2994.5	7656.8	51484.	2274.9
#2	3000.3	7669.2	51156.	2292.2
#3	2979.1	7617.8	50926.	2304.5

Zoom In Zoom Out

Sample Name: HSTD Acquired: 4/3/2015 7:30:31 Type: QC
Method: 60102007_042011(v209) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4996	79.12	4.089	3.929	3.897	78.80	4.042	4.019	3.987	3.959
Stddev	.0006	.55	.012	.022	.017	.36	.006	.005	.004	.004
%RSD	.1277	.6917	.2843	.5568	.4360	.4588	.1612	.1353	.1009	.0940
#1	.5002	79.49	4.098	3.946	3.909	79.05	4.050	4.025	3.984	3.963
#2	.4997	78.49	4.076	3.904	3.878	78.39	4.038	4.016	3.985	3.956
#3	.4989	79.38	4.094	3.937	3.905	78.97	4.038	4.015	3.991	3.959
Check ?	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass
Value										
Range										

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	79.17	78.93	78.64	3.941	4.017	78.11	3.997	4.057	4.071	4.072
Stddev	.47	.46	.48	.065	.009	.30	.003	.011	.009	.010
%RSD	.5909	.5770	.6083	1.640	.2270	.3788	.0692	.2789	.2103	.2359
#1	79.39	79.30	78.90	4.009	4.028	78.30	3.999	4.061	4.080	4.080
#2	78.63	78.42	78.09	3.881	4.012	77.77	3.998	4.044	4.063	4.073
#3	79.48	79.06	78.94	3.933	4.012	78.26	3.994	4.066	4.071	4.061
Check ?	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass
Value										
Range										

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	3.665	4.013	3.907	3.894	4.014	3.974	4.015
Stddev	.007	.003	.019	.022	.007	.002	.004
%RSD	.1804	.0797	.4843	.5757	.1633	.0567	.0871
#1	3.672	4.016	3.918	3.919	4.021	3.977	4.019
#2	3.661	4.013	3.885	3.887	4.013	3.973	4.014
#3	3.661	4.010	3.917	3.876	4.009	3.972	4.013
Check ?	None	Chk	Pass	Chk	Pass	Chk	Pass
Value							
Range							

Zoom In Zoom Out

Sample Name: HSTD Acquired: 4/3/2015 7:30:31 Type: QC
Method: 60102007_042011(v209) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2969.9	7591.3	51307.	2307.6
Stddev	10.1	8.7	227.	14.4
%RSD	.34099	.11470	.44201	.62365
#1	2968.8	7593.0	51045.	2295.7
#2	2980.5	7599.0	51441.	2323.6
#3	2960.3	7581.8	51434.	2303.4

Zoom In Zoom Out

Sample Name: ICV Acquired: 4/3/2015 7:34:11 Type: QC
Method: 60102007_042011(v209) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2481	39.54	2.023	1.971	1.953	39.39	2.042	2.024	2.010	1.991
Stddev	.0013	.10	.015	.001	.007	.12	.013	.012	.007	.006
%RSD	.5239	.2514	.7543	.0633	.3542	.3060	.6507	.5936	.3539	.3116
#1	.2496	39.65	2.008	1.972	1.957	39.51	2.033	2.018	2.013	1.992
#2	.2470	39.47	2.022	1.969	1.946	39.27	2.036	2.017	2.016	1.996
#3	.2478	39.50	2.038	1.972	1.958	39.38	2.057	2.038	2.002	1.984
Check ?	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass
Value										
Range										

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	40.06	39.55	39.63	1.985	2.022	39.32	2.015	1.986	2.015	2.027
Stddev	.12	.21	.10	.033	.011	.22	.012	.014	.010	.012
%RSD	.2983	.5258	.2480	1.635	.5464	.5548	.6049	.7074	.4777	.6013
#1	40.12	39.77	39.59	1.969	2.015	39.50	2.010	1.982	2.008	2.021
#2	39.92	39.35	39.56	2.022	2.016	39.07	2.007	1.974	2.012	2.020
#3	40.13	39.54	39.74	1.964	2.034	39.38	2.029	2.002	2.026	2.041
Check ?	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass
Value										
Range										

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.061	2.012	1.957	2.002	1.997	1.960	2.024
Stddev	.010	.012	.003	.004	.021	.011	.013
%RSD	.5013	.5857	.1652	.2216	1.038	.5475	.6493
#1	2.054	2.005	1.961	2.005	1.987	1.961	2.017
#2	2.056	2.005	1.954	2.004	1.983	1.970	2.015
#3	2.072	2.025	1.957	1.997	2.020	1.949	2.039
Check ?	None	Chk	Pass	Chk	Pass	Chk	Pass
Value							
Range							

Zoom In Zoom Out

Sample Name: ICV Acquired: 4/3/2015 7:34:11 Type: QC
Method: 60102007_042011(v209) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3175.6	7871.5	53091.	2325.7
Stddev	27.6	64.4	708.	25.6
%RSD	.86826	.81870	1.3328	1.1019
#1	3184.3	7900.9	53186.	2300.7
#2	3197.8	7916.0	52340.	2351.9
#3	3144.7	7797.6	53746.	2324.6

Zoom In Zoom Out

Sample Name: ICB Acquired: 4/3/2015 7:39:57 Type: QC
Method: 60102007_042011(v209) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0006	.0130	.0012	.0001	.0001	-.0076	.0000	.0001	-.0002
Stddev	.0004	.0207	.0006	.0006	.0001	.0029	.000	.0001	.0002
%RSD	64.28	158.7	47.84	531.6	115.0	37.98	75.87	118.0	92.84
#1	.0002	.0339	.0010	-.0003	.0000	-.0106	.0000	.0001	.0000
#2	.0008	.0128	.0007	.0008	.0002	-.0073	-.0001	.0000	-.0002
#3	.0008	-.0075	.0018	-.0002	.0002	-.0049	.0000	.0000	-.0003
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000	.0018	.0327	.0028	.0000	F.0012	.0332	.0000	-.0003
Stddev	.0003	.0032	.0779	.0226	.000	.0005	.0238	.000	.0009
%RSD	608.3	182.7	237.9	808.0	260.7	44.89	71.62	635.3	332.4
#1	.0001	.0053	-.0212	.0284	.0001	.0017	.0407	-.0001	-.0011
#2	.0003	-.0011	-.0027	-.0146	.0000	.0013	.0066	.0001	.0007
#3	-.0002	.0011	.1220	-.0053	-.0001	.0006	.0523	-.0001	-.0004
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit						.0010			
Low Limit						-.0010			

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0002	-.0014	.0010	.0004	-.0001	.0008	.0009	-.0002	-.0002
Stddev	.0022	.0014	.0004	.0003	.0000	.0001	.0002	.0002	.0001
%RSD	1068.	101.5	36.51	60.23	32.17	15.56	23.21	87.52	28.14
#1	-.0013	-.0002	.0009	.0007	-.0001	.0008	.0011	-.0005	-.0002
#2	-.0008	-.0030	.0014	.0005	-.0002	.0008	.0007	-.0001	-.0002
#3	.0027	-.0011	.0007	.0001	-.0001	.0006	.0010	-.0002	-.0003
Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Zoom In Zoom Out

Sample Name: ICB Acquired: 4/3/2015 7:39:57 Type: QC
Method: 60102007_042011(v209) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3667.5	8150.8	55057.	2360.4
Stddev	9.3	26.2	289.	8.3
%RSD	.25485	.32203	.52430	.35201
#1	3678.2	8177.1	55315.	2365.0
#2	3660.9	8124.6	55111.	2365.3
#3	3663.5	8150.7	54745.	2350.8

Zoom In Zoom Out

Sample Name: CRIA Acquired: 4/3/2015 7:43:46 Type: QC
Method: 60102007_042011(v209) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Sb2068
Units	ppm
Avg	.0043
Stddev	.0015
%RSD	35.13
#1	.0045
#2	.0057
#3	.0027
Check ?	Chk Pass
Value	
Range	

Int. Std.	Y_2243
Units	Cts/S
Avg	8051.6
Stddev	11.4
%RSD	.14160
#1	8059.9
#2	8056.4
#3	8038.6

Zoom In Zoom Out

Sample Name: CRIA Acquired: 4/3/2015 7:47:59 Type: QC
Method: 60102007_042011(v209) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0113	.2099	.0104	.2061	.0051	1.016	.0053	.0542	.0106	.0265
Stddev	.0000	.0192	.0012	.0020	.0000	.011	.0000	.0000	.0003	.0005
%RSD	.2254	9.171	11.63	.9637	.8783	1.107	.8836	.0516	2.924	1.822
#1	.0113	.1891	.0090	.2083	.0052	1.029	.0053	.0542	.0109	.0270
#2	.0112	.2270	.0110	.2056	.0051	1.007	.0053	.0542	.0104	.0260
#3	.0113	.2135	.0112	.2044	.0051	1.013	.0054	.0541	.0104	.0266
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value										
Range										

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Se1960	Si2124
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.3043	10.17	5.121	.0160	.0506	10.27	.0433	.0048	.0082	.0462
Stddev	.0082	.07	.072	.0000	.0002	.08	.0001	.0008	.0010	.0011
%RSD	2.681	.6612	1.406	.1874	.3684	.7646	.3213	17.63	12.25	2.369
#1	.3137	10.24	5.194	.0160	.0506	10.37	.0435	.0045	.0092	.0462
#2	.2997	10.10	5.117	.0160	.0505	10.24	.0434	.0042	.0081	.0451
#3	.2994	10.18	5.051	.0160	.0508	10.22	.0432	.0058	.0072	.0473
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None
Value										
Range										

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0548	.0097	.0098	.0091	.0490	.0219
Stddev	.0005	.0004	.0003	.0002	.0002	.0001
%RSD	.9535	4.103	3.005	2.698	.4163	.3183
#1	.0548	.0092	.0101	.0088	.0490	.0219
#2	.0553	.0100	.0095	.0092	.0488	.0218
#3	.0543	.0097	.0097	.0093	.0492	.0218
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Zoom In Zoom Out

Sample Name: CRIA Acquired: 4/3/2015 7:47:59 Type: QC
Method: 60102007_042011(v209) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Int. Std.	ln2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3471.7	8012.0	53913.	2353.3
Stddev	9.3	20.5	257.	26.8
%RSD	.26723	.25636	.47651	1.1401
#1	3476.6	8027.8	54192.	2322.5
#2	3477.6	8019.4	53687.	2365.9
#3	3461.1	7988.8	53860.	2371.6

Zoom In Zoom Out

Sample Name: ICSA Acquired: 4/3/2015 7:52:17 Type: QC
Method: 60102007_042011(v210) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000	499.5	.0005	.0001	-.0001	481.2	.0000	.0000	.0009	.0000
Stddev	.001	1.6	.0021	.0011	.0002	6.6	.000	.000	.0004	.0001
%RSD	4020.	.3265	407.9	857.7	152.9	1.378	696.8	179.9	41.12	920.7
#1	-.0007	498.3	.0023	-.0011	-.0003	473.7	.0001	.0000	.0011	-.0001
#2	-.0002	498.8	-.0019	.0006	.0000	486.4	.0000	-.0001	.0011	.0001
#3	.0008	501.3	.0011	.0008	.0000	483.3	-.0001	.0000	.0005	.0000
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	188.4	.4821	483.6	-.0008	-.0001	.3714	.0000	-.0008	.0000	.0000
Stddev	.5	.0229	1.6	.0001	.0001	.0082	.000	.0014	.0009	.0027
%RSD	.2585	4.750	.3389	7.966	60.83	2.213	1687.	165.3	1964.	51510.
#1	187.9	.4680	482.6	-.0008	-.0001	.3755	.0000	-.0012	-.0007	.0028
#2	188.4	.4698	482.7	-.0008	-.0002	.3768	.0001	-.0019	-.0001	-.0025
#3	188.9	.5085	485.5	-.0009	-.0001	.3620	-.0001	.0007	.0010	-.0003
Check ?	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0512	.0010	.0003	.0001	.0000	.0000	.0023
Stddev	.0018	.0001	.0001	.0002	.001	.0009	.0000
%RSD	3.454	11.13	28.47	304.6	5960.	23010.	.9133
#1	.0523	.0011	.0004	.0003	-.0003	-.0005	.0023
#2	.0491	.0009	.0003	-.0001	.0006	-.0006	.0023
#3	.0521	.0009	.0002	.0000	-.0003	.0010	.0023
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Zoom In Zoom Out

Sample Name: ICSA Acquired: 4/3/2015 7:52:17 Type: QC
Method: 60102007_042011(v210) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Int. Std.	ln2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2876.0	7352.8	47733.	2172.2
Stddev	12.3	22.6	92.	10.5
%RSD	.42919	.30742	.19346	.48458
#1	2889.9	7374.6	47837.	2183.0
#2	2871.4	7329.4	47663.	2171.8
#3	2866.5	7354.5	47698.	2161.9

Zoom In Zoom Out

Sample Name: ICSAB Acquired: 4/3/2015 7:58:24 Type: QC
Method: 60102007_042011(v210) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.034	491.3	1.098	.5186	.4972	473.1	.9739	.4951	.5061	.5376
Stddev	.002	1.9	.004	.0016	.0027	5.5	.0012	.0004	.0020	.0017
%RSD	.1752	.3789	.3967	.3007	.5499	1.170	.1225	.0859	.3914	.3179
#1	1.035	492.2	1.095	.5180	.4995	477.4	.9746	.4953	.5054	.5394
#2	1.032	492.7	1.103	.5204	.4978	475.1	.9746	.4953	.5046	.5361
#3	1.034	489.2	1.096	.5175	.4942	466.8	.9725	.4946	.5083	.5373
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value										
Range										

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	189.4	.2430	475.0	.5103	.9785	.3091	.9878	.9707	1.102	1.062
Stddev	.6	.0634	1.7	.0007	.0008	.0242	.0008	.0007	.005	.002
%RSD	.2997	26.08	.3670	.1439	.0796	7.815	.0823	.0772	.4802	.2028
#1	189.8	.2277	475.6	.5110	.9779	.3369	.9881	.9713	1.103	1.061
#2	189.7	.3126	476.3	.5095	.9794	.2927	.9884	.9709	1.108	1.064
#3	188.7	.1886	473.0	.5103	.9781	.2978	.9869	.9698	1.097	1.060
Check ?	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value										
Range										

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1172	.9958	.9979	1.013	.9789	.4762	.9944
Stddev	.0014	.0023	.0047	.001	.0024	.0012	.0010
%RSD	1.212	.2319	.4736	.1423	.2426	.2614	.1008
#1	.1165	.9949	1.001	1.015	.9814	.4766	.9944
#2	.1189	.9985	1.001	1.013	.9767	.4748	.9954
#3	.1163	.9941	.9924	1.012	.9785	.4772	.9934
Check ?	None	Chk Pass	None	None	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Zoom In
Zoom Out

Sample Name: ICSAB Acquired: 4/3/2015 7:58:24 Type: QC
Method: 60102007_042011(v210) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2828.9	7287.1	47574.	2209.8
Stddev	4.8	4.9	313.	14.8
%RSD	.17075	.06741	.65874	.67170
#1	2828.0	7288.8	47422.	2196.6
#2	2834.1	7290.9	47934.	2225.9
#3	2824.5	7281.6	47365.	2206.9

Zoom In
Zoom Out

Sample Name: CCV Acquired: 4/3/2015 8:02:16 Type: QC
Method: 60102007_042011(v210) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2505	39.81	2.093	2.003	1.941	39.24	2.106	2.076	2.041	2.013
Stddev	.0010	.31	.007	.011	.009	.19	.005	.007	.002	.003
%RSD	.4076	.7867	.3604	.5416	.4893	.4831	.2532	.3250	.1041	.1520
#1	.2515	39.90	2.085	2.003	1.935	39.19	2.100	2.070	2.039	2.010
#2	.2505	40.06	2.093	2.014	1.952	39.45	2.106	2.075	2.043	2.014
#3	.2494	39.46	2.100	1.992	1.935	39.08	2.111	2.083	2.042	2.016
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value										
Range										

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	40.56	39.78	39.63	2.001	2.060	39.44	2.050	2.001	2.082	2.092
Stddev	.16	.11	.18	.011	.007	.22	.006	.005	.006	.004
%RSD	.4006	.2862	.4466	.5326	.3294	.5500	.2935	.2534	.3136	.2103
#1	40.49	39.78	39.59	2.010	2.054	39.35	2.045	1.996	2.075	2.087
#2	40.75	39.89	39.82	2.003	2.059	39.69	2.048	2.002	2.083	2.095
#3	40.45	39.67	39.48	1.989	2.068	39.28	2.056	2.006	2.087	2.094
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value										
Range										

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.125	2.058	1.960	2.009	2.019	1.958	2.058
Stddev	.006	.006	.008	.002	.009	.002	.007
%RSD	.3013	.3027	.4208	.0935	.4622	.1240	.3340
#1	2.120	2.052	1.961	2.008	2.010	1.956	2.051
#2	2.124	2.058	1.968	2.007	2.019	1.959	2.057
#3	2.132	2.065	1.951	2.011	2.029	1.960	2.065
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Zoom In
Zoom Out

Sample Name: CCV Acquired: 4/3/2015 8:02:16 Type: QC
Method: 60102007_042011(v210) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3139.6	7754.1	52003.	2267.9
Stddev	7.1	18.0	327.	20.9
%RSD	.22719	.23240	.62856	.92277
#1	3147.8	7774.5	52128.	2286.3
#2	3135.9	7747.2	51632.	2245.1
#3	3135.0	7740.5	52249.	2272.1

Zoom In
Zoom Out

Sample Name: CCB Acquired: 4/3/2015 8:07:24 Type: QC
Method: 60102007_042011(v210) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0004	.0087	.0014	.0002	.0000	-.0090	.0000	.0000
Stddev	.0006	.0243	.0003	.0005	.000	.0029	.0001	.0001
%RSD	146.1	278.7	18.69	205.6	2730.	31.58	319.1	660.5
#1	.0006	.0016	.0014	-.0003	.0001	-.0114	.0000	.0001
#2	-.0003	.0358	.0011	.0007	-.0002	-.0059	.0000	.0000
#3	.0008	-.0112	.0016	.0003	.0000	-.0099	.0001	.0000
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Cr2677	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0002	.0000	.0018	.0171	-.0094	-.0001	.0003	.0189
Stddev	.0004	.000	.0020	.0445	.0211	.0000	.0003	.0141
%RSD	247.2	683.4	113.2	260.5	223.9	40.54	109.8	74.35
#1	.0003	.0002	.0037	.0193	-.0313	-.0001	.0005	.0307
#2	-.0003	.0000	.0019	-.0285	-.0079	-.0001	-.0001	.0227
#3	-.0005	-.0004	-.0003	.0604	.0109	.0000	.0005	.0033
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Ni2316	Pb2203	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000	F-.0011	-.0002	-.0017	.0011	.0002	-.0002	-.0002
Stddev	.000	.0008	.0011	.0007	.0003	.0002	.0002	.0001
%RSD	653.8	71.78	673.2	40.31	30.46	111.3	96.34	36.18
#1	-.0001	-.0008	-.0005	-.0020	.0007	.0000	-.0004	-.0003
#2	.0001	-.0020	.0011	-.0021	.0014	.0004	-.0003	-.0002
#3	.0000	-.0005	-.0011	-.0009	.0012	.0002	.0000	-.0002
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass
High Limit		.0010						
Low Limit		-.0010						

Zoom In Zoom Out

Sample Name: CCB Acquired: 4/3/2015 8:07:24 Type: QC
Method: 60102007_042011(v210) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm
Avg	.0008	-.0002	-.0001
Stddev	.0014	.0002	.0000
%RSD	173.6	143.0	56.42
#1	.0023	.0001	-.0001
#2	.0005	-.0004	-.0001
#3	-.0004	-.0002	.0000
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3693.8	8155.9	55236.	2340.9
Stddev	7.4	21.1	86.	8.6
%RSD	.20013	.25840	.15483	.36579
#1	3702.0	8180.3	55217.	2349.9
#2	3692.0	8144.3	55329.	2332.8
#3	3687.6	8143.3	55161.	2339.9

Zoom In Zoom Out

Sample Name: MP28748-MB1 Acquired: 4/3/2015 8:11:18 Type: QC
Method: 60102007_042011(v210) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0002	.0067	-.0003	-.0002	-.0001	.4609	-.0001	-.0001	.0001	-.0002
Stddev	.0006	.0237	.0003	.0002	.0000	.0195	.0000	.0001	.0001	.0002
%RSD	354.9	356.6	121.5	114.8	52.31	4.233	6.401	71.72	111.1	142.4
#1	.0008	.0299	-.0006	.0001	-.0001	.4400	-.0001	-.0001	.0003	.0000
#2	-.0003	.0075	-.0001	-.0003	-.0001	.4640	-.0001	.0000	.0002	-.0005
#3	.0000	-.0175	.0000	-.0004	-.0001	.4787	-.0001	-.0001	.0000	.0000
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0051	-.0479	-.0107	.0000	-.0002	.0079	-.0003	-.0003	.0000	-.0015
Stddev	.0050	.0771	.0127	.000	.0003	.0204	.0001	.0005	.0014	.0008
%RSD	99.10	160.8	118.7	1002.	160.0	256.7	48.37	150.4	3233.	49.51
#1	-.0008	-.1253	.0002	.0001	-.0001	-.0128	-.0002	-.0004	-.0005	-.0008
#2	-.0106	.0289	-.0246	-.0001	.0001	.0279	-.0004	-.0008	-.0009	-.0024
#3	-.0038	-.0475	-.0077	.0000	-.0005	.0088	-.0002	.0002	.0016	-.0014
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0212	.0003	.0000	-.0004	.0006	-.0001	.0002
Stddev	.0007	.0002	.0000	.0001	.0010	.0002	.0000
%RSD	3.358	76.37	112.4	14.75	175.5	116.9	9.454
#1	.0207	.0004	.0001	-.0004	.0005	-.0003	.0002
#2	.0220	.0000	.0001	-.0004	.0016	.0000	.0002
#3	.0210	.0003	.0000	-.0005	-.0004	-.0001	.0002
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Zoom In Zoom Out

Sample Name: MP28748-MB1 Acquired: 4/3/2015 8:11:18 Type: QC
Method: 60102007_042011(v210) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3699.1	8234.8	56135.	2354.0
Stddev	3.2	15.3	195.	11.1
%RSD	.08523	.18617	.34775	.47027
#1	3695.6	8251.7	55932.	2344.5
#2	3700.0	8231.1	56153.	2351.3
#3	3701.7	8221.7	56322.	2366.1

Zoom In Zoom Out

Sample Name: MP28748-B1 Acquired: 4/3/2015 8:15:46 Type: QC
Method: 60102007_042011(v210) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0501	27.54	2.145	2.068	.0505	25.05	.0535	.5315	.2162	.2643
Stddev	.0005	.18	.004	.009	.0006	.17	.0002	.0008	.0013	.0002
%RSD	.9479	.6627	.1991	.4163	1.184	.6958	.2934	.1548	.5844	.0677
#1	.0498	27.47	2.142	2.067	.0502	24.96	.0535	.5316	.2172	.2644
#2	.0498	27.74	2.150	2.078	.0511	25.26	.0533	.5306	.2165	.2644
#3	.0506	27.40	2.145	2.061	.0501	24.95	.0536	.5322	.2148	.2641
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value										
Range										

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	26.97	25.29	25.15	.5189	.5147	25.23	.5313	.4950	.5312	2.118
Stddev	.20	.23	.18	.0003	.0012	.21	.0006	.0020	.0004	.001
%RSD	.7530	.8938	.7312	.0624	.2273	.8236	.1206	.4035	.0827	.0548
#1	26.87	25.22	25.07	.5191	.5141	25.10	.5315	.4971	.5311	2.119
#2	27.20	25.55	25.36	.5191	.5139	25.47	.5306	.4932	.5309	2.117
#3	26.83	25.11	25.02	.5185	.5160	25.12	.5318	.4946	.5317	2.118
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value										
Range										

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0301	.5312	.4923	.4994	2.014	.4916	.5248
Stddev	.0004	.0008	.0021	.0003	.002	.0011	.0007
%RSD	1.184	.1423	.4286	.0523	.1149	.2260	.1278
#1	.0299	.5318	.4918	.4997	2.016	.4927	.5251
#2	.0298	.5304	.4947	.4993	2.013	.4904	.5241
#3	.0305	.5315	.4905	.4993	2.012	.4916	.5253
Check ?	None	Chk Pass	None	None	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Zoom In Zoom Out

Sample Name: MP28748-B1 Acquired: 4/3/2015 8:15:46 Type: QC
Method: 60102007_042011(v210) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3332.9	7949.5	53671.	2357.4
Stddev	5.4	17.1	188.	27.0
%RSD	.16086	.21478	.35020	1.1438
#1	3326.9	7940.7	53485.	2361.0
#2	3337.2	7969.2	53666.	2328.9
#3	3334.6	7938.7	53861.	2382.4

Zoom In Zoom Out

Sample Name: FA23034-3 Acquired: 4/3/2015 8:20:08 Type: Unk
Method: 60102007_042011(v210) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)
Avg	.0000	.0442	-.0004	.0062	-.0001	5.615	.0108	.0001	.0036
Stddev	.001	.0318	.0015	.0004	.0003	.051	.0001	.0000	.0005
%RSD	1831.	72.05	362.4	7.212	210.3	.9079	.5667	29.42	13.27
#1	.0006	.0095	.0005	.0067	-.0004	5.629	.0108	.0001	.0032
#2	-.0002	.0511	-.0022	.0060	.0001	5.658	.0108	.0001	.0034
#3	-.0004	.0720	.0004	.0059	-.0001	5.559	.0107	.0002	.0041

Elem	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
IS Ref	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)
Avg	.0006	.0883	.6913	.9201	.0229	.0219	F159.8	.0025	.0003
Stddev	.0006	.0021	.0007	.0171	.0001	.0001	1.1	.0005	.0009
%RSD	93.17	2.434	.0996	1.854	.6219	.2586	.6618	18.36	308.1
#1	.0000	.0902	.6918	.9146	.0229	.0220	160.5	.0020	-.0001
#2	.0011	.0860	.6905	.9392	.0228	.0219	160.2	.0029	-.0004
#3	.0007	.0886	.6915	.9065	.0230	.0219	158.6	.0024	.0014

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	.0042	-.0004	.0758	.0004	.1492	.0000	-.0006	.0000	1.102
Stddev	.0017	.0045	.0010	.0002	.0010	.000	.0017	.000	.002
%RSD	40.99	1082.	1.366	55.20	.6881	1768.	255.8	957.9	.1772
#1	.0051	-.0037	.0769	.0003	.1492	.0001	-.0016	-.0004	1.104
#2	.0022	-.0023	.0748	.0006	.1503	.0001	-.0016	.0000	1.100
#3	.0053	.0047	.0757	.0002	.1482	-.0002	.0013	.0003	1.102

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	3325.8	7978.9	53145.	2367.2
Stddev	11.2	27.6	210.	25.9
%RSD	.33754	.34648	.39433	1.0962
#1	3315.2	7949.8	53091.	2341.0
#2	3324.5	7982.1	52968.	2367.7
#3	3337.6	8004.9	53377.	2392.9

Zoom In Zoom Out

Sample Name: MP28748-D1 Acquired: 4/3/2015 8:24:35 Type: Unk
Method: 60102007_042011(v210) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)
Avg	.0004	.0361	.0008	.0067	-.0002	5.329	.0105	.0001	.0035
Stddev	.0002	.0154	.0005	.0008	.0001	.031	.0000	.0001	.0004
%RSD	50.13	42.72	60.38	12.48	70.54	.5836	.2494	110.8	11.68
#1	.0002	.0519	.0012	.0057	-.0002	5.293	.0105	.0002	.0035
#2	.0005	.0352	.0009	.0070	-.0003	5.351	.0106	.0001	.0040
#3	.0005	.0211	.0003	.0073	-.0001	5.342	.0105	.0000	.0032

Elem	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
IS Ref	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)
Avg	.0002	.0853	.6897	.9106	.0224	.0212	F154.2	.0026	-.0010
Stddev	.0001	.0025	.0642	.0081	.0001	.0001	.2	.0001	.0005
%RSD	45.00	2.942	9.314	.8843	.2469	.5382	.1588	4.914	44.89
#1	.0003	.0873	.6275	.9130	.0224	.0211	154.0	.0025	-.0011
#2	.0001	.0825	.6858	.9172	.0225	.0213	154.2	.0027	-.0014
#3	.0003	.0862	.7558	.9017	.0224	.0211	154.5	.0027	-.0005

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	.0043	-.0006	.0762	.0005	.1454	-.0003	-.0009	-.0004	1.086
Stddev	.0006	.0011	.0009	.0002	.0005	.0002	.0003	.0002	.000
%RSD	14.38	185.6	1.165	43.85	.3274	58.55	31.62	65.61	.0318
#1	.0037	.0003	.0770	.0008	.1449	-.0003	-.0011	-.0003	1.086
#2	.0042	-.0017	.0764	.0004	.1454	-.0005	-.0009	-.0006	1.087
#3	.0050	-.0003	.0753	.0004	.1458	-.0002	-.0006	-.0002	1.086

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	3320.7	7940.4	52492.	2361.3
Stddev	6.2	3.8	461.	5.9
%RSD	.18680	.04842	.87774	.24967
#1	3317.3	7942.2	52750.	2364.7
#2	3317.0	7936.0	51961.	2354.5
#3	3327.9	7943.0	52767.	2364.7

Zoom In Zoom Out

Sample Name: MP28748-SD1 Acquired: 4/3/2015 8:29:02 Type: Unk
Method: 60102007_042011(v210) Mode: CONC Corr. Factor: 5.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	.0047	.0325	.0035	.0107	-.0005	5.991	.0106	-.0001	.0025	-.0009
Stddev	.0033	.0683	.0044	.0010	.0005	.040	.0003	.0007	.0001	.0010
%RSD	70.38	210.2	126.3	9.519	95.29	.6637	2.941	694.4	5.402	107.8
#1	.0081	.0710	-.0007	.0111	-.0002	5.952	.0108	-.0009	.0025	-.0015
#2	.0016	.0729	.0031	.0114	-.0011	6.032	.0102	.0006	.0024	.0002
#3	.0043	-.0464	.0082	.0095	-.0003	5.989	.0108	.0000	.0026	-.0015

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	.0654	.2371	.8824	.0230	.0189	167.9	.0027	-.0053	-.0086	-.0025
Stddev	.0048	.2495	.1683	.0002	.0009	.3	.0002	.0020	.0041	.0073
%RSD	7.325	105.2	19.07	.8985	4.670	.2039	5.514	37.36	47.77	293.6
#1	.0599	-.0193	.9702	.0227	.0195	168.2	.0029	-.0070	-.0120	-.0091
#2	.0689	.4790	.9887	.0231	.0194	168.0	.0026	-.0031	-.0098	.0053
#3	.0673	.2517	.6884	.0231	.0179	167.5	.0027	-.0057	-.0041	-.0037

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	.0867	.0004	.1520	-.0039	-.0057	-.0010	1.135
Stddev	.0033	.0010	.0010	.0004	.0060	.0038	.002
%RSD	3.798	233.4	.6736	9.245	105.1	375.6	.1356
#1	.0886	-.0004	.1524	-.0038	.0012	.0017	1.134
#2	.0886	.0015	.1528	-.0042	-.0088	-.0053	1.135
#3	.0829	.0001	.1509	-.0035	-.0096	.0006	1.137

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	3483.0	8037.4	53963.	2302.9
Stddev	7.8	25.4	156.	18.5
%RSD	.22284	.31572	.28924	.80154
#1	3485.5	8023.6	53958.	2281.8
#2	3474.2	8021.8	53809.	2310.3
#3	3489.1	8066.7	54121.	2316.4

Zoom In
Zoom Out

Sample Name: MP28748-S1 Acquired: 4/3/2015 8:33:30 Type: Unk
Method: 60102007_042011(v210) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)
Avg	.0498	27.09	2.187	2.020	.0490	29.94	.0637	.5202	.2194
Stddev	.0008	.01	.011	.006	.0002	.10	.0002	.0003	.0002
%RSD	1.619	.0449	.4959	.2801	.3500	.3306	.2995	.0585	.0799
#1	.0489	27.08	2.180	2.025	.0491	30.05	.0638	.5200	.2195
#2	.0505	27.10	2.200	2.014	.0490	29.91	.0639	.5205	.2195
#3	.0500	27.11	2.182	2.021	.0488	29.86	.0635	.5200	.2192

Elem	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
IS Ref	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)
Avg	.2556	26.54	25.78	25.43	.5344	.5306	F178.2	.5231	.5056
Stddev	.0009	.03	.06	.03	.0012	.0006	.8	.0006	.0018
%RSD	.3397	.1087	.2386	.1348	.2286	.1184	.4211	.1216	.3605
#1	.2549	26.51	25.74	25.45	.5332	.5299	179.0	.5224	.5035
#2	.2565	26.54	25.75	25.39	.5357	.5312	177.9	.5237	.5067
#3	.2552	26.57	25.85	25.45	.5344	.5307	177.6	.5232	.5067

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	.5332	2.173	.0862	.5276	.6291	.4941	2.000	.4872	1.605
Stddev	.0017	.003	.0003	.0007	.0005	.0008	.009	.0014	.001
%RSD	.3189	.1272	.3995	.1266	.0720	.1540	.4678	.2842	.0654
#1	.5332	2.170	.0861	.5271	.6294	.4939	1.990	.4861	1.604
#2	.5315	2.175	.0865	.5274	.6286	.4949	2.008	.4888	1.605
#3	.5349	2.174	.0859	.5283	.6293	.4935	2.003	.4868	1.606

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	3188.3	7902.0	51781.	2274.1
Stddev	5.2	13.3	329.	26.0
%RSD	.16262	.16780	.63531	1.1424
#1	3191.5	7895.1	52161.	2247.8
#2	3191.1	7917.3	51606.	2274.9
#3	3182.3	7893.7	51578.	2299.7

Zoom In
Zoom Out

Sample Name: MP28748-S2 Acquired: 4/3/2015 8:37:52 Type: Unk
Method: 60102007_042011(v210) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)
Avg	.0503	27.17	2.218	2.036	.0494	30.30	.0647	.5247	.2220
Stddev	.0004	.36	.006	.014	.0001	.15	.0002	.0003	.0010
%RSD	.7317	1.317	.2804	.6918	.2823	.4867	.2396	.0617	.4299
#1	.0504	27.13	2.221	2.029	.0494	30.23	.0648	.5244	.2224
#2	.0499	27.54	2.210	2.052	.0494	30.47	.0648	.5250	.2210
#3	.0506	26.83	2.221	2.027	.0492	30.20	.0645	.5247	.2228

Elem	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
IS Ref	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)
Avg	.2588	26.88	26.26	25.79	.5416	.5348	F177.8	.5282	.5152
Stddev	.0007	.14	.23	.12	.0003	.0001	1.1	.0004	.0027
%RSD	.2785	.5167	.8768	.4513	.0579	.0233	.6440	.0729	.5276
#1	.2589	26.84	26.08	25.81	.5414	.5349	177.6	.5285	.5123
#2	.2580	27.03	26.52	25.89	.5419	.5347	179.1	.5278	.5157
#3	.2594	26.76	26.17	25.66	.5413	.5348	176.9	.5282	.5176

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	.5358	2.214	.0854	.5333	.6360	.5004	2.025	.4956	1.625
Stddev	.0031	.003	.0017	.0007	.0051	.0010	.009	.0016	.002
%RSD	.5697	.1334	1.970	.1287	.8082	.1911	.4672	.3236	.0978
#1	.5388	2.213	.0873	.5341	.6331	.5001	2.021	.4946	1.623
#2	.5358	2.211	.0843	.5329	.6419	.4997	2.018	.4975	1.625
#3	.5327	2.217	.0845	.5329	.6329	.5015	2.036	.4948	1.626

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	3254.5	8085.4	52675.	2298.8
Stddev	4.0	26.5	40.	12.9
%RSD	.12289	.32822	.07521	.56092
#1	3253.4	8059.3	52691.	2291.3
#2	3258.9	8084.4	52630.	2291.4
#3	3251.1	8112.4	52703.	2313.7

Zoom In
Zoom Out

Sample Name: FA23034-1 Acquired: 4/3/2015 8:42:14 Type: Unk
Method: 60102007_042011(v210) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)
Avg	.0014	.1107	.0010	.0190	-.0003	6.593	.0104	.0009	.0007
Stddev	.0011	.0390	.0007	.0004	.0001	.035	.0001	.0000	.0002
%RSD	76.58	35.21	71.03	2.024	36.96	.5338	1.030	5.215	27.54
#1	.0013	.1544	.0004	.0194	-.0004	6.592	.0105	.0008	.0006
#2	.0004	.0985	.0009	.0186	-.0003	6.628	.0104	.0009	.0010
#3	.0025	.0793	.0018	.0188	-.0002	6.557	.0103	.0008	.0007

Elem	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
IS Ref	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)
Avg	.0594	.0564	.8668	.3465	.0442	.0218	F150.4	.0067	.0287
Stddev	.0010	.0016	.0771	.0258	.0001	.0003	1.1	.0001	.0013
%RSD	1.757	2.856	8.896	7.447	.3292	1.345	.7391	1.990	4.565
#1	.0594	.0575	.7794	.3762	.0444	.0216	150.3	.0066	.0280
#2	.0583	.0546	.8962	.3330	.0442	.0221	151.6	.0065	.0279
#3	.0604	.0572	.9249	.3302	.0441	.0216	149.4	.0068	.0302

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	.0078	.0012	.1468	.0010	.0168	.0018	-.0015	.0000	1.156
Stddev	.0004	.0002	.0013	.0005	.0003	.0001	.0007	.0003	.003
%RSD	4.648	20.03	.9032	43.01	1.974	8.014	48.50	7202.	.2684
#1	.0080	.0012	.1483	.0013	.0167	.0017	-.0023	.0003	1.159
#2	.0074	.0013	.1461	.0005	.0172	.0020	-.0013	-.0002	1.153
#3	.0080	.0009	.1460	.0013	.0166	.0018	-.0009	-.0001	1.154

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	3313.7	7952.6	52568.	2240.3
Stddev	8.9	11.1	126.	13.4
%RSD	.26798	.13957	.23983	.59592
#1	3304.1	7939.9	52696.	2241.9
#2	3315.3	7960.6	52562.	2226.2
#3	3321.6	7957.3	52444.	2252.8

Zoom In
Zoom Out

Sample Name: FA23034-2 Acquired: 4/3/2015 8:46:41 Type: Unk
Method: 60102007_042011(v210) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)
Avg	.0012	.0448	.0002	.1938	-.0003	13.47	.0529	.0037	.0015
Stddev	.0002	.0342	.0008	.0020	.0001	.08	.0001	.0001	.0003
%RSD	14.23	76.23	492.9	1.028	32.37	.5930	.2051	2.398	22.05
#1	.0012	.0765	.0011	.1960	-.0004	13.45	.0529	.0037	.0016
#2	.0014	.0086	-.0005	.1922	-.0003	13.40	.0529	.0036	.0018
#3	.0010	.0493	-.0001	.1931	-.0003	13.55	.0531	.0036	.0011

Elem	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
IS Ref	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)
Avg	.0430	2.109	.5580	.8462	.1041	.0006	F157.0	.0173	.0315
Stddev	.0003	.021	.0871	.0484	.0003	.0002	.7	.0002	.0008
%RSD	.7588	.9963	15.61	5.718	.2539	38.12	.4570	1.055	2.490
#1	.0429	2.133	.6435	.8783	.1044	.0006	157.5	.0175	.0323
#2	.0428	2.094	.4694	.7906	.1040	.0007	156.2	.0172	.0317
#3	.0434	2.101	.5610	.8699	.1040	.0003	157.4	.0172	.0307

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	.0036	-.0028	.1880	.0038	.0461	.0002	-.0028	-.0006	1.172
Stddev	.0014	.0036	.0009	.0004	.0002	.0003	.0007	.0002	.002
%RSD	37.77	129.6	.4600	11.03	.3613	115.4	23.82	37.15	.1623
#1	.0024	.0001	.1889	.0037	.0460	.0003	-.0033	-.0007	1.170
#2	.0051	-.0067	.1877	.0033	.0459	-.0001	-.0021	-.0004	1.171
#3	.0033	-.0017	.1873	.0042	.0462	.0005	-.0031	-.0008	1.174

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	3288.9	7924.0	51879.	2209.5
Stddev	15.8	39.2	311.	20.6
%RSD	.47975	.49509	.59938	.93341
#1	3294.7	7937.5	51530.	2217.7
#2	3301.0	7954.8	51981.	2224.8
#3	3271.1	7879.9	52127.	2186.0

Zoom In Zoom Out

Sample Name: FA23034-4 Acquired: 4/3/2015 8:51:07 Type: Unk
Method: 60102007_042011(v210) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)
Avg	.0024	.0497	-.0007	.0096	-.0002	5.635	.0050	.0068	.0013
Stddev	.0007	.0188	.0008	.0005	.0001	.022	.0001	.0001	.0002
%RSD	29.35	37.79	122.8	4.896	37.04	.3901	1.499	1.672	17.05
#1	.0029	.0302	-.0013	.0091	-.0002	5.654	.0050	.0069	.0015
#2	.0026	.0676	.0003	.0098	-.0003	5.611	.0049	.0067	.0013
#3	.0016	.0512	-.0010	.0100	-.0001	5.639	.0050	.0069	.0011

Elem	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
IS Ref	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)
Avg	.0018	35.72	.5500	1.654	.4538	-.0007	F165.4	.0093	-.0001
Stddev	.0004	.11	.1610	.058	.0007	.0001	1.1	.0002	.0021
%RSD	22.88	.3059	29.26	3.474	.1481	12.17	.6391	2.523	2178.
#1	.0018	35.84	.4689	1.720	.4543	-.0007	166.7	.0094	.0023
#2	.0014	35.64	.7354	1.624	.4531	-.0006	164.7	.0090	-.0010
#3	.0022	35.67	.4457	1.617	.4542	-.0008	164.9	.0094	-.0015

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	.0000	-.0027	.0761	.0005	.2165	-.0002	-.0027	-.0006	.1496
Stddev	.002	.0010	.0013	.0003	.0027	.0002	.0018	.0003	.0002
%RSD	6863.	39.23	1.735	69.07	1.244	83.62	66.08	56.68	.1579
#1	-.0007	-.0016	.0754	.0008	.2196	-.0001	-.0044	-.0010	.1493
#2	.0018	-.0027	.0754	.0006	.2144	-.0001	-.0009	-.0004	.1497
#3	-.0012	-.0037	.0777	.0001	.2156	-.0004	-.0027	-.0004	.1498

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	3270.9	7911.4	50910.	2097.2
Stddev	7.7	10.5	217.	8.1
%RSD	.23457	.13230	.42677	.38665
#1	3266.0	7907.7	50769.	2105.4
#2	3267.0	7903.3	50801.	2089.2
#3	3279.7	7923.3	51160.	2097.0

Zoom In Zoom Out

Sample Name: CCV Acquired: 4/3/2015 8:55:32 Type: QC
Method: 60102007_042011(v210) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2578	40.07	2.194	1.962	1.889	39.74	F2.200	2.122	2.160
Stddev	.0009	.29	.006	.015	.013	.34	.002	.002	.002
%RSD	.3441	.7330	.2553	.7448	.6855	.8527	.0674	.1012	.1028
#1	.2586	39.93	2.189	1.949	1.878	39.52	2.201	2.121	2.158
#2	.2569	39.88	2.200	1.957	1.886	39.56	2.198	2.120	2.159
#3	.2579	40.41	2.193	1.978	1.903	40.13	2.201	2.124	2.162
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass
Value							2.000		
Range							10.00%		

Elem	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.058	41.11	40.62	40.17	2.054	2.093	39.45	2.085	2.072
Stddev	.004	.32	.32	.30	.011	.005	.34	.003	.005
%RSD	.2153	.7805	.7783	.7350	.5568	.2227	.8586	.1317	.2270
#1	2.061	40.84	40.38	40.12	2.066	2.089	39.21	2.083	2.069
#2	2.053	41.03	40.50	39.91	2.051	2.092	39.30	2.083	2.069
#3	2.061	41.46	40.98	40.49	2.044	2.098	39.83	2.088	2.077
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value									
Range									

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.141	2.192	2.176	2.136	1.939	2.027	2.039	2.027	2.161
Stddev	.002	.002	.001	.002	.013	.002	.001	.003	.002
%RSD	.0845	.0976	.0325	.1102	.6894	.0717	.0415	.1455	.0786
#1	2.141	2.194	2.176	2.134	1.928	2.029	2.039	2.028	2.160
#2	2.143	2.191	2.175	2.135	1.936	2.027	2.039	2.023	2.160
#3	2.140	2.191	2.176	2.138	1.954	2.026	2.038	2.029	2.163
Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value									
Range									

Zoom In Zoom Out

Sample Name: CCV Acquired: 4/3/2015 8:55:32 Type: QC
Method: 60102007_042011(v210) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3109.2	7608.0	50097.	2069.5
Stddev	10.1	26.3	565.	43.3
%RSD	.32610	.34633	1.1275	2.0899
#1	3115.3	7614.8	49540.	2095.0
#2	3097.5	7579.0	50670.	2094.0
#3	3114.7	7630.3	50081.	2019.6

Zoom In Zoom Out

Sample Name: CCB Acquired: 4/3/2015 9:00:02 Type: QC
Method: 60102007_042011(v210) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F.0021	-.0108	.0003	-.0006	.0001	-.0059	-.0002	.0000
Stddev	.0010	.0412	.0004	.0006	.0001	.0025	.0000	.000
%RSD	46.59	382.5	132.0	94.36	133.4	42.85	25.57	305.3
#1	.0020	.0349	.0007	-.0011	.0002	-.0088	-.0001	.0000
#2	.0031	-.0218	.0001	.0000	.0001	-.0043	-.0002	.0001
#3	.0011	-.0454	.0000	-.0007	.0000	-.0046	-.0002	-.0001
Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	.0010							
Low Limit	-.0010							

Elem	Cr2677	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0001	-.0003	.0075	-.0221	-.0258	-.0001	F.0011	.0917
Stddev	.0002	.0004	.0082	.0631	.0187	.0002	.0003	.0289
%RSD	205.9	124.2	109.2	285.5	72.28	210.6	27.05	31.54
#1	.0003	-.0008	.0160	.0392	-.0430	.0001	.0014	.0784
#2	.0001	.0000	.0068	-.0187	-.0060	-.0001	.0011	.1248
#3	-.0001	-.0002	-.0003	-.0868	-.0284	-.0002	.0008	.0718
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit							.0010	
Low Limit							-.0010	

Elem	Ni2316	Pb2203	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0001	F-.0011	.0005	F-.0044	.0027	.0005	-.0002	.0006
Stddev	.0002	.0009	.0022	.0012	.0019	.0004	.0000	.0001
%RSD	222.7	77.90	453.3	27.66	69.28	85.43	6.567	25.03
#1	.0003	-.0003	.0024	-.0034	.0046	.0010	-.0002	.0007
#2	-.0001	-.0020	.0010	-.0058	.0027	.0002	-.0002	.0004
#3	.0001	-.0011	-.0019	-.0041	.0008	.0003	-.0002	.0006
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Fail	None	Chk Pass	Chk Pass	Chk Pass
High Limit		.0010		.0020				
Low Limit		-.0010		-.0020				

Zoom In Zoom Out

Sample Name: CCB Acquired: 4/3/2015 9:00:02 Type: QC
Method: 60102007_042011(v210) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm
Avg	-.0016	-.0008	-.0001
Stddev	.0006	.0004	.0001
%RSD	40.21	47.02	77.40
#1	-.0010	-.0011	-.0003
#2	-.0023	-.0008	-.0001
#3	-.0014	-.0004	-.0001
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3615.2	7971.0	52466.	2061.2
Stddev	5.8	21.8	117.	25.5
%RSD	.16050	.27321	.22208	1.2387
#1	3609.7	7947.3	52360.	2032.1
#2	3621.3	7990.1	52591.	2079.8
#3	3614.6	7975.6	52447.	2071.6

Zoom In Zoom Out

Sample Name: CCV Acquired: 4/3/2015 9:24:48 Type: QC
Method: 60102007_042011(v210) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2498	40.58	2.015	2.017	2.020	40.52	2.032	2.027	2.033	2.029
Stddev	.0014	.16	.005	.009	.010	.17	.003	.001	.010	.006
%RSD	.5521	.3885	.2632	.4437	.5121	.4105	.1231	.0518	.4844	.2805
#1	.2514	40.66	2.021	2.027	2.032	40.70	2.031	2.026	2.037	2.032
#2	.2492	40.67	2.013	2.014	2.017	40.47	2.031	2.027	2.022	2.022
#3	.2489	40.39	2.012	2.010	2.012	40.38	2.035	2.028	2.040	2.032
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value										
Range										

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	40.76	40.82	40.39	2.060	2.023	40.66	2.023	1.988	2.018	2.020
Stddev	.19	.13	.21	.061	.003	.19	.002	.002	.003	.008
%RSD	.4716	.3111	.5256	2.966	.1325	.4691	.1075	.0978	.1560	.4018
#1	40.96	40.96	40.48	2.082	2.019	40.87	2.021	1.987	2.017	2.019
#2	40.76	40.78	40.54	1.991	2.024	40.59	2.025	1.990	2.015	2.012
#3	40.57	40.72	40.15	2.107	2.024	40.51	2.022	1.987	2.021	2.028
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value										
Range										

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.073	2.012	2.014	2.041	2.007	2.003	2.025
Stddev	.001	.002	.011	.005	.005	.009	.002
%RSD	.0595	.0933	.5470	.2636	.2328	.4762	.1020
#1	2.072	2.011	2.027	2.046	2.002	2.010	2.023
#2	2.072	2.014	2.009	2.035	2.011	1.992	2.027
#3	2.074	2.011	2.007	2.042	2.007	2.006	2.024
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Zoom In Zoom Out

Sample Name: CCV Acquired: 4/3/2015 9:24:48 Type: QC
Method: 60102007_042011(v210) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3100.1	7569.1	49867.	2051.8
Stddev	2.6	10.1	726.	16.3
%RSD	.08317	.13317	1.4568	.79667
#1	3097.8	7561.4	49162.	2066.2
#2	3102.9	7580.5	50613.	2034.0
#3	3099.6	7565.4	49826.	2055.1

Zoom In Zoom Out

Sample Name: CCB Acquired: 4/3/2015 9:30:30 Type: QC
Method: 60102007_042011(v210) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0001	-.0194	.0004	.0004	.0000	.0029	.0000	.0001	.0004
Stddev	.0006	.0299	.0003	.0008	.0002	.0012	.0000	.0001	.0005
%RSD	463.2	154.3	75.68	211.8	648.2	41.84	116.3	86.53	135.5
#1	.0003	-.0479	.0006	.0013	-.0001	.0032	.0000	.0001	-.0001
#2	-.0006	.0117	.0001	-.0001	.0000	.0040	.0000	.0000	.0009
#3	.0006	-.0219	.0005	-.0001	.0002	.0016	.0000	.0001	.0004
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0002	.0084	.1995	.0165	.0001	F.0011	.0255	.0002	.0002
Stddev	.0006	.0055	.0432	.0111	.0001	.0002	.0228	.0002	.0010
%RSD	349.3	65.91	21.66	67.29	68.02	19.21	89.40	96.75	534.3
#1	.0008	.0089	.2426	.0037	.0000	.0011	.0243	.0004	.0012
#2	-.0003	.0026	.1562	.0229	.0001	.0014	.0033	.0003	-.0007
#3	.0000	.0136	.1999	.0229	.0001	.0010	.0488	.0000	.0000
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit						.0010			
Low Limit						-.0010			

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F.0025	.0011	.0000	.0002	.0001	.0008	-.0006	-.0002	.0001
Stddev	.0014	.0011	.001	.0004	.0005	.0000	.0013	.0005	.0001
%RSD	57.01	95.59	2232.	190.0	424.5	5.439	225.3	200.1	68.61
#1	.0042	.0003	-.0009	.0006	.0006	.0008	-.0005	-.0007	.0002
#2	.0015	.0023	.0003	.0001	.0002	.0008	-.0019	-.0003	.0000
#3	.0019	.0007	.0005	-.0001	-.0004	.0008	.0007	.0002	.0002
Check ?	Chk Fail	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	.0020								
Low Limit	-.0020								

Zoom In
Zoom Out

Sample Name: CCB Acquired: 4/3/2015 9:30:30 Type: QC
Method: 60102007_042011(v210) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3715.0	8164.3	54058.	2157.7
Stddev	8.9	21.6	127.	12.9
%RSD	.24012	.26512	.23482	.59847
#1	3713.5	8183.8	54122.	2165.9
#2	3706.9	8141.0	53912.	2164.4
#3	3724.6	8168.2	54140.	2142.8

Zoom In
Zoom Out

Sample Name: FA23034-5 Acquired: 4/3/2015 9:34:43 Type: Unk
Method: 60102007_042011(v210) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)
Avg	.0014	.1454	.0009	.0146	-.0001	5.364	.1361	.1750	.0120
Stddev	.0010	.0225	.0006	.0008	.0001	.026	.0002	.0003	.0005
%RSD	73.48	15.48	65.03	5.290	191.3	.4941	.1188	.1702	4.271
#1	.0025	.1657	.0005	.0155	-.0002	5.376	.1359	.1746	.0116
#2	.0006	.1492	.0015	.0142	-.0001	5.333	.1362	.1752	.0118
#3	.0010	.1212	.0006	.0141	.0001	5.382	.1362	.1751	.0125

Elem	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
IS Ref	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)
Avg	.1653	.0568	5.035	1.120	.0313	.1326	F171.9	.3345	.0102
Stddev	.0003	.0043	.060	.009	.0001	.0003	1.3	.0005	.0014
%RSD	.1784	7.492	1.190	.7855	.3112	.2532	.7704	.1400	13.69
#1	.1655	.0595	5.090	1.127	.0312	.1327	173.3	.3340	.0086
#2	.1655	.0519	5.043	1.110	.0313	.1322	170.6	.3346	.0111
#3	.1650	.0591	4.971	1.122	.0314	.1329	171.8	.3350	.0111

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	.4376	.0040	.1249	.0010	.1794	.0091	-.0024	.0019	.0935
Stddev	.0034	.0028	.0003	.0002	.0012	.0001	.0006	.0003	.0002
%RSD	.7721	70.14	.2127	25.51	.6636	.6915	25.53	13.83	.1901
#1	.4339	.0012	.1251	.0012	.1804	.0091	-.0026	.0016	.0933
#2	.4404	.0069	.1246	.0007	.1781	.0092	-.0029	.0019	.0936
#3	.4385	.0040	.1250	.0010	.1797	.0091	-.0017	.0021	.0935

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	3254.9	7820.3	50775.	2125.9
Stddev	2.7	6.3	228.	6.5
%RSD	.08191	.08021	.44858	.30548
#1	3254.9	7820.4	50988.	2124.3
#2	3257.5	7814.0	50803.	2133.0
#3	3252.2	7826.5	50535.	2120.3

Zoom In
Zoom Out

Sample Name: FA23034-6 Acquired: 4/3/2015 9:39:10 Type: Unk
Method: 60102007_042011(v210) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)
Avg	.0011	.1728	-.0010	.1024	.0004	6.428	.3112	.0106	.0182
Stddev	.0015	.0089	.0010	.0016	.0001	.040	.0004	.0001	.0004
%RSD	131.3	5.148	95.71	1.582	17.51	.6255	.1359	.8783	1.981
#1	.0029	.1699	-.0002	.1038	.0004	6.452	.3117	.0107	.0186
#2	.0002	.1658	-.0008	.1006	.0004	6.382	.3108	.0105	.0180
#3	.0003	.1828	-.0021	.1028	.0005	6.451	.3112	.0105	.0181

Elem	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
IS Ref	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)
Avg	.1416	.0221	6.978	.8978	.1094	.0140	F165.3	.0209	.0087
Stddev	.0004	.0017	.095	.0278	.0002	.0002	1.1	.0001	.0012
%RSD	.2621	7.688	1.354	3.096	.1468	1.417	.6389	.6049	13.41
#1	.1412	.0206	6.892	.9207	.1092	.0140	166.5	.0209	.0078
#2	.1419	.0239	6.963	.8669	.1093	.0138	164.5	.0210	.0084
#3	.1418	.0219	7.079	.9058	.1095	.0141	165.0	.0208	.0100

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	.1660	.0015	.1598	.0004	.1657	.0010	-.0025	.0000	.1660
Stddev	.0012	.0027	.0003	.0001	.0009	.0001	.0008	.001	.0002
%RSD	.7511	177.4	.1602	26.79	.5141	12.24	33.42	1837.	.1059
#1	.1649	-.0012	.1597	.0004	.1667	.0009	-.0034	.0006	.1658
#2	.1673	.0042	.1600	.0003	.1650	.0011	-.0018	-.0001	.1660
#3	.1659	.0015	.1595	.0005	.1655	.0011	-.0022	-.0005	.1661

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	3240.5	7778.1	50459.	2102.6
Stddev	16.4	45.8	473.	13.1
%RSD	.50567	.58916	.93729	.62108
#1	3222.3	7726.2	50930.	2089.6
#2	3254.2	7813.1	49984.	2102.4
#3	3244.9	7795.1	50462.	2115.8

Zoom In
Zoom Out

Sample Name: FA23034-7 Acquired: 4/3/2015 9:43:36 Type: Unk
Method: 60102007_042011(v210) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)
Avg	.0007	.1118	-.0014	.0488	.0000	4.410	.4439	.0016	.0218
Stddev	.0004	.0147	.0011	.0004	.0001	.038	.0007	.0003	.0003
%RSD	54.47	13.13	78.42	.7888	522.6	.8533	.1469	16.38	1.169
#1	.0007	.1013	-.0027	.0493	-.0001	4.427	.4445	.0017	.0216
#2	.0003	.1055	-.0009	.0488	.0001	4.367	.4432	.0017	.0221
#3	.0011	.1286	-.0007	.0485	.0001	4.436	.4438	.0013	.0217

Elem	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
IS Ref	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)
Avg	.0030	.1319	3.781	.6710	.0405	.0079	F162.4	.0109	.0078
Stddev	.0004	.0025	.058	.0414	.0002	.0001	1.4	.0001	.0005
%RSD	14.58	1.863	1.529	6.165	.4934	1.372	.8658	.6300	6.558
#1	.0029	.1291	3.782	.6977	.0404	.0080	162.9	.0109	.0079
#2	.0035	.1336	3.722	.6919	.0404	.0080	160.9	.0109	.0072
#3	.0027	.1331	3.838	.6233	.0407	.0078	163.6	.0110	.0082

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	.0974	.0013	.0992	.0002	.2582	.0007	-.0010	-.0002	.1871
Stddev	.0016	.0027	.0007	.0004	.0025	.0001	.0008	.0003	.0002
%RSD	1.676	208.0	.7385	219.8	.9842	14.22	86.36	146.6	.0926
#1	.0991	.0042	.1000	.0003	.2584	.0008	-.0004	.0001	.1873
#2	.0958	.0005	.0985	.0005	.2555	.0007	-.0019	-.0005	.1870
#3	.0973	-.0009	.0992	-.0003	.2606	.0006	-.0005	-.0002	.1871

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	3254.9	7810.7	50925.	2107.5
Stddev	9.7	19.6	306.	13.4
%RSD	.29682	.25143	.60058	.63705
#1	3249.2	7793.8	50573.	2116.1
#2	3266.1	7832.2	51071.	2114.3
#3	3249.4	7805.9	51131.	2092.0

Zoom In Zoom Out

Sample Name: FA23034-8 Acquired: 4/3/2015 9:48:01 Type: Unk
Method: 60102007_042011(v210) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)
Avg	.0004	.0226	-.0003	.0060	.0000	3.680	.0395	.0002	.0034
Stddev	.0006	.0135	.0010	.0009	.000	.009	.0001	.0002	.0005
%RSD	128.3	59.51	298.9	15.59	50.46	.2396	.2323	79.75	14.84
#1	-.0002	.0082	.0007	.0062	.0000	3.688	.0394	.0002	.0033
#2	.0005	.0348	-.0005	.0069	.0000	3.670	.0394	.0004	.0039
#3	.0010	.0249	-.0013	.0050	-.0001	3.682	.0396	.0000	.0030

Elem	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
IS Ref	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)
Avg	.0185	.2266	.9871	.6136	.0208	.0008	F164.9	.0156	.0008
Stddev	.0003	.0094	.0621	.0018	.0002	.0002	1.1	.0004	.0019
%RSD	1.887	4.157	6.291	.2860	.8226	20.27	.6538	2.290	235.4
#1	.0182	.2314	1.008	.6153	.0208	.0007	165.4	.0155	.0000
#2	.0189	.2327	.9173	.6118	.0207	.0007	165.6	.0153	.0030
#3	.0184	.2158	1.036	.6138	.0210	.0010	163.7	.0160	-.0005

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	.0023	.0003	.0721	.0005	.1084	.0004	-.0023	-.0002	.0838
Stddev	.0025	.0032	.0003	.0001	.0006	.0003	.0010	.0003	.0002
%RSD	108.5	950.4	.4283	22.35	.5620	63.63	42.98	129.9	.2680
#1	.0022	-.0033	.0721	.0007	.1087	.0005	-.0034	-.0004	.0839
#2	-.0001	.0023	.0717	.0005	.1088	.0006	-.0019	-.0004	.0835
#3	.0048	.0020	.0724	.0004	.1077	.0001	-.0015	.0001	.0839

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	3275.6	7841.3	50304.	2105.3
Stddev	15.8	34.9	593.	12.0
%RSD	.48213	.44526	1.1781	.57068
#1	3259.2	7801.8	50933.	2105.1
#2	3290.7	7868.1	50224.	2093.4
#3	3276.8	7854.0	49756.	2117.5

Zoom In Zoom Out

Sample Name: FA23034-9 Acquired: 4/3/2015 9:52:27 Type: Unk
Method: 60102007_042011(v210) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)
Avg	.0006	.0014	-.0008	.0136	-.0002	4.259	.0005	.0000	.0059
Stddev	.0002	.0058	.0012	.0005	.0000	.050	.0001	.0001	.0001
%RSD	28.48	413.7	148.7	3.349	5.920	1.176	11.07	386.1	1.862
#1	.0006	.0005	.0004	.0136	-.0002	4.204	.0005	.0000	.0060
#2	.0005	-.0039	-.0009	.0141	-.0002	4.302	.0004	.0001	.0058
#3	.0008	.0077	-.0019	.0132	-.0002	4.272	.0005	.0000	.0057

Elem	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
IS Ref	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)
Avg	.0002	.1919	.8303	.4231	.0263	.2064	F159.7	.0002	.0011
Stddev	.0006	.0023	.1146	.0417	.0001	.0007	.7	.0004	.0002
%RSD	264.1	1.223	13.80	9.848	.4345	.3621	.4583	211.8	14.55
#1	-.0004	.1919	.8309	.4671	.0262	.2065	159.2	.0004	.0009
#2	.0009	.1943	.7154	.3842	.0262	.2071	160.6	.0005	.0012
#3	.0002	.1896	.9445	.4180	.0264	.2056	159.4	-.0003	.0012

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	.0021	-.0011	.1693	.0000	.1030	.0018	-.0019	-.0001	1.241
Stddev	.0021	.0019	.0011	.0003	.0005	.0003	.0012	.0004	.002
%RSD	97.94	176.0	.6358	1021.	.4780	19.45	61.56	390.0	.1197
#1	.0045	-.0003	.1686	.0003	.1031	.0014	-.0018	.0004	1.242
#2	.0013	-.0032	.1689	-.0002	.1033	.0020	-.0031	-.0005	1.241
#3	.0006	.0003	.1706	-.0001	.1024	.0018	-.0008	-.0003	1.239

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	3204.0	7704.3	49966.	2120.7
Stddev	8.4	20.8	361.	18.9
%RSD	.26077	.27044	.72221	.89238
#1	3201.0	7697.3	49717.	2129.9
#2	3213.5	7727.7	50380.	2133.2
#3	3197.6	7687.9	49801.	2098.9

Zoom In Zoom Out

Sample Name: FA23034-10 Acquired: 4/3/2015 9:56:52 Type: Unk
Method: 60102007_042011(v210) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)
Avg	-.0002	.0722	.0001	3.874	-.0001	12.51	.3896	.0030	.0128
Stddev	.0007	.0296	.0013	.001	.0000	.02	.0005	.0000	.0002
%RSD	403.8	40.94	975.8	.0239	40.93	.1290	.1223	1.048	1.258
#1	-.0006	.0871	-.0013	3.875	-.0002	12.53	.3901	.0030	.0128
#2	-.0005	.0382	.0013	3.873	-.0001	12.50	.3892	.0030	.0126
#3	.0006	.0913	.0004	3.875	-.0001	12.50	.3894	.0029	.0129

Elem	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
IS Ref	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)
Avg	F12.34	.1296	1.311	.9936	.2268	.2160	F162.9	.0268	.0268
Stddev	.14	.0038	.046	.0373	.0003	.0004	.2	.0002	.0002
%RSD	1.098	2.917	3.515	3.756	.1389	.2023	.1483	.7264	.8992
#1	12.48	.1256	1.261	.9981	.2265	.2165	163.1	.0270	.0270
#2	12.21	.1331	1.351	1.028	.2271	.2159	162.8	.0266	.0265
#3	12.33	.1302	1.323	.9542	.2269	.2157	162.7	.0267	.0269

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	.1690	.0042	.4408	.0001	.3189	.0014	-.0009	.0002	.8460
Stddev	.0022	.0018	.0003	.0002	.0007	.0002	.0014	.0004	.0017
%RSD	1.312	42.22	.0573	227.9	.2324	16.67	157.5	246.8	.1971
#1	.1714	.0037	.4410	.0003	.3193	.0016	-.0025	-.0001	.8479
#2	.1670	.0027	.4408	-.0002	.3193	.0015	-.0001	.0000	.8453
#3	.1687	.0061	.4405	.0002	.3180	.0011	-.0001	.0006	.8448

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	3235.7	7691.8	50103.	2097.0
Stddev	9.5	16.9	615.	17.3
%RSD	.29491	.21983	1.2274	.82285
#1	3233.2	7682.3	50430.	2077.1
#2	3227.7	7681.8	50485.	2106.3
#3	3246.3	7711.4	49393.	2107.6

Zoom In Zoom Out

Sample Name: FA23034-11 Acquired: 4/3/2015 10:01:26 Type: Unk
Method: 60102007_042011(v210) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)
Avg	.0005	.1642	-.0006	.0220	.0000	8.047	.2232	.0005	.0199
Stddev	.0004	.0295	.0014	.0011	.000	.036	.0001	.0002	.0003
%RSD	82.38	17.94	237.0	4.796	2253.	.4430	.0345	34.13	1.704
#1	.0009	.1634	-.0015	.0217	.0000	8.088	.2231	.0007	.0196
#2	.0001	.1941	-.0013	.0231	.0001	8.028	.2232	.0004	.0202
#3	.0004	.1352	.0010	.0211	-.0001	8.026	.2231	.0003	.0199

Elem	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
IS Ref	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)
Avg	.0252	.0442	1.074	1.226	.0412	.0031	F165.5	.0106	.0009
Stddev	.0004	.0020	.017	.043	.0000	.0001	1.6	.0003	.0008
%RSD	1.777	4.443	1.589	3.546	.0944	4.058	.9398	3.117	92.54
#1	.0247	.0464	1.055	1.194	.0412	.0031	167.1	.0105	.0018
#2	.0252	.0428	1.080	1.275	.0412	.0029	165.2	.0104	.0006
#3	.0256	.0432	1.088	1.208	.0411	.0032	164.1	.0110	.0002

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	.0070	-.0003	.1403	.0004	.2067	.0011	-.0020	.0001	.0975
Stddev	.0005	.0009	.0006	.0001	.0017	.0002	.0009	.0009	.0001
%RSD	7.278	284.7	.4520	22.26	.8293	19.77	45.65	917.0	.0984
#1	.0071	.0007	.1409	.0004	.2081	.0009	-.0024	.0007	.0976
#2	.0064	-.0009	.1397	.0003	.2072	.0011	-.0026	-.0009	.0974
#3	.0074	-.0007	.1401	.0005	.2048	.0014	-.0009	.0005	.0974

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	3202.7	7688.1	49518.	2080.2
Stddev	3.4	10.3	74.	8.3
%RSD	.10492	.13395	.14934	.39746
#1	3203.8	7700.0	49552.	2075.2
#2	3205.4	7682.5	49568.	2075.5
#3	3199.0	7681.8	49433.	2089.7

Zoom In Zoom Out

Sample Name: FA23034-12 Acquired: 4/3/2015 10:05:52 Type: Unk
Method: 60102007_042011(v210) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)
Avg	.0012	.0796	-.0010	.0380	-.0001	13.19	.0916	.0001	.7373
Stddev	.0005	.0579	.0008	.0002	.0002	.07	.0001	.0001	.0004
%RSD	44.82	72.79	75.11	.4011	210.7	.5639	.1567	103.4	.0491
#1	.0017	.0675	-.0018	.0381	.0001	13.12	.0917	.0000	.7371
#2	.0013	.0287	-.0004	.0381	-.0001	13.27	.0915	.0002	.7370
#3	.0006	.1426	-.0008	.0378	-.0002	13.17	.0917	.0001	.7377

Elem	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
IS Ref	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)
Avg	.0100	.1263	.8938	.8628	.2152	.0004	F163.3	.0033	.0014
Stddev	.0003	.0031	.0161	.0092	.0005	.0002	.5	.0001	.0006
%RSD	2.599	2.458	1.802	1.063	.2137	54.00	.3143	4.518	42.06
#1	.0101	.1294	.9114	.8543	.2147	.0003	162.8	.0033	.0008
#2	.0102	.1232	.8903	.8616	.2156	.0007	163.8	.0031	.0020
#3	.0097	.1263	.8798	.8725	.2153	.0003	163.3	.0034	.0014

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	.0047	.0017	.1122	.0002	1.479	.0015	-.0020	-.0003	.0603
Stddev	.0003	.0006	.0017	.0006	.006	.0001	.0011	.0008	.0001
%RSD	7.389	35.88	1.503	276.4	.4311	5.343	55.40	253.0	.1309
#1	.0050	.0015	.1119	.0002	1.473	.0014	-.0008	-.0011	.0603
#2	.0044	.0012	.1140	-.0004	1.485	.0015	-.0030	.0004	.0603
#3	.0046	.0024	.1106	.0008	1.479	.0016	-.0023	-.0002	.0602

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	3228.6	7723.8	49882.	2058.7
Stddev	8.8	18.1	84.	16.9
%RSD	.27172	.23370	.16829	.81913
#1	3218.5	7703.6	49978.	2075.2
#2	3233.9	7738.2	49844.	2059.4
#3	3233.4	7729.6	49823.	2041.4

Zoom In Zoom Out

Sample Name: FA23181-1L Acquired: 4/3/2015 10:10:17 Type: Unk
Method: 60102007_042011(v210) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)
Avg	.0010	.0183	-.0011	.2170	.0000	31.68	.0000	.0077	.0009
Stddev	.0005	.0334	.0008	.0005	.0002	.12	.000	.0002	.0003
%RSD	47.24	182.6	72.78	.2328	960.0	.3771	177.5	2.279	27.60
#1	.0013	-.0124	-.0012	.2175	.0001	31.72	-.0001	.0077	.0008
#2	.0005	.0539	-.0003	.2169	-.0002	31.55	.0000	.0079	.0007
#3	.0014	.0134	-.0019	.2165	.0002	31.78	.0000	.0076	.0012

Elem	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
IS Ref	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)
Avg	.0017	.1031	.5571	3.047	1.351	.0000	F163.8	.0070	-.0004
Stddev	.0005	.0055	.0200	.044	.003	.0002	.5	.0002	.0010
%RSD	28.71	5.382	3.598	1.442	.2490	1910.	.3082	2.684	255.6
#1	.0023	.1093	.5347	3.092	1.354	-.0001	164.1	.0068	-.0009
#2	.0014	.1014	.5631	3.046	1.352	.0002	163.2	.0071	.0007
#3	.0015	.0986	.5734	3.004	1.348	.0000	164.0	.0072	-.0010

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	-.0001	.0029	.2126	.0003	.0228	.0019	-.0024	-.0002	.0062
Stddev	.0023	.0011	.0044	.0001	.0002	.0002	.0006	.0002	.0000
%RSD	1909.	38.14	2.070	39.65	.8146	10.42	27.13	108.0	.4344
#1	.0025	.0023	.2110	.0002	.0230	.0021	-.0016	-.0005	.0062
#2	-.0012	.0042	.2093	.0004	.0226	.0017	-.0028	-.0002	.0062
#3	-.0016	.0023	.2176	.0004	.0228	.0019	-.0026	.0000	.0062

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	3195.3	7746.9	49635.	2062.3
Stddev	15.4	31.7	266.	5.6
%RSD	.48058	.40859	.53580	.26992
#1	3181.8	7716.9	49441.	2065.5
#2	3192.1	7743.7	49525.	2065.4
#3	3212.0	7780.0	49938.	2055.8

Zoom In Zoom Out

Sample Name: FA23204-1 Acquired: 4/3/2015 10:14:45 Type: Unk
Method: 60102007_042011(v210) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	-.0009	.0381	-.0019	.0033	.0000	4.006	.0003	.0170	1.948	.0044
Stddev	.0006	.0102	.0005	.0005	.000	.033	.0000	.0001	.005	.0005
%RSD	70.53	26.71	26.97	14.57	5029.	.8201	9.923	.3052	.2461	11.09
#1	-.0015	.0299	-.0014	.0027	.0000	3.975	.0003	.0170	1.954	.0039
#2	-.0003	.0350	-.0024	.0037	.0002	4.001	.0003	.0170	1.946	.0049
#3	-.0008	.0495	-.0020	.0033	-.0002	4.040	.0003	.0169	1.945	.0045

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	88.79	.4351	2.103	1.271	.0302	13.07	.9518	.0088	-.0014	.0099
Stddev	.37	.0396	.064	.003	.0001	.05	.0006	.0010	.0012	.0011
%RSD	.4200	9.098	3.022	.2386	.4408	.3832	.0598	11.66	86.64	11.32
#1	88.40	.4042	2.067	1.275	.0303	13.01	.9512	.0089	-.0028	.0089
#2	88.81	.4797	2.066	1.269	.0301	13.09	.9519	.0098	-.0007	.0099
#3	89.15	.4214	2.177	1.270	.0302	13.11	.9523	.0078	-.0007	.0111

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	1.205	.0016	.0400	.0071	-.0036	.0068	1.527
Stddev	.002	.0004	.0002	.0002	.0018	.0006	.001
%RSD	.1549	22.36	.5569	2.310	50.80	8.984	.0550
#1	1.207	.0019	.0401	.0072	-.0031	.0069	1.528
#2	1.204	.0017	.0397	.0070	-.0020	.0061	1.528
#3	1.203	.0012	.0401	.0073	-.0056	.0073	1.526

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	3598.6	7929.8	54022.	2218.4
Stddev	12.0	28.6	476.	36.0
%RSD	.33432	.36099	.88200	1.6228
#1	3609.5	7949.5	53478.	2218.9
#2	3585.7	7897.0	54363.	2254.2
#3	3600.6	7942.9	54226.	2182.2

Zoom In Zoom Out

Sample Name: CCV Acquired: 4/3/2015 10:19:10 Type: QC
Method: 60102007_042011(v210) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2415	39.67	1.964	1.978	1.982	39.29	1.974	1.977	1.969	1.982
Stddev	.0001	.24	.005	.014	.013	.23	.002	.001	.004	.004
%RSD	.0602	.5993	.2674	.7144	.6738	.5783	.1221	.0439	.1925	.2085
#1	.2416	39.48	1.967	1.969	1.974	39.13	1.974	1.977	1.973	1.986
#2	.2415	39.94	1.958	1.994	1.997	39.55	1.972	1.976	1.967	1.983
#3	.2413	39.61	1.967	1.970	1.974	39.19	1.977	1.977	1.967	1.978
Check ? Value Range	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	39.92	39.75	39.15	1.968	1.978	39.72	1.965	1.908	1.979	1.962
Stddev	.24	.23	.24	.012	.004	.27	.002	.003	.003	.003
%RSD	.6028	.5734	.6148	.6262	.2112	.6883	.0992	.1504	.1387	.1648
#1	39.75	39.52	39.03	1.959	1.974	39.57	1.967	1.905	1.975	1.961
#2	40.19	39.98	39.42	1.963	1.977	40.04	1.963	1.907	1.980	1.966
#3	39.81	39.76	38.98	1.982	1.982	39.55	1.964	1.911	1.980	1.959
Check ? Value Range	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.032	1.939	1.974	1.983	1.942	1.944	1.943
Stddev	.001	.003	.012	.006	.002	.005	.001
%RSD	.0445	.1328	.5893	.3030	.0761	.2401	.0624
#1	2.031	1.942	1.966	1.990	1.942	1.949	1.944
#2	2.032	1.937	1.987	1.980	1.944	1.941	1.941
#3	2.033	1.939	1.969	1.979	1.941	1.941	1.942
Check ? Value Range	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Pass

Zoom In
Zoom Out

Sample Name: CCV Acquired: 4/3/2015 10:19:10 Type: QC
Method: 60102007_042011(v210) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3220.5	7850.3	52386.	2209.1
Stddev	14.2	38.0	375.	15.6
%RSD	.44135	.48456	.71639	.70681
#1	3221.1	7838.9	52086.	2205.5
#2	3234.3	7892.8	52266.	2226.1
#3	3205.9	7819.3	52807.	2195.5

Zoom In
Zoom Out

Sample Name: CCB Acquired: 4/3/2015 10:23:41 Type: QC
Method: 60102007_042011(v210) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0001	.0210	.0007	.0007	-.0001	-.0038	.0001	.0001	.0003
Stddev	.0007	.0232	.0004	.0006	.0001	.0011	.0000	.0001	.0001
%RSD	1379.	110.3	62.23	80.47	106.6	30.55	58.44	63.14	44.01
#1	.0003	.0244	.0011	.0013	.0000	-.0045	.0001	.0001	.0003
#2	.0004	-.0037	.0009	.0006	-.0002	-.0024	.0001	.0001	.0005
#3	-.0008	.0423	.0002	.0002	-.0002	-.0044	.0000	.0000	.0002
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0003	.0098	.1486	.0116	.0000	F.0018	.0895	.0002	.0006
Stddev	.0001	.0047	.0551	.0139	.000	.0003	.0118	.0003	.0006
%RSD	34.06	48.48	37.08	119.1	520.2	15.39	13.14	122.0	101.1
#1	.0003	.0150	.1868	-.0022	-.0001	.0021	.0762	-.0001	.0002
#2	.0002	.0086	.0854	.0117	.0000	.0017	.0987	.0004	.0012
#3	.0004	.0057	.1734	.0255	.0000	.0016	.0936	.0003	.0003
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit						.0010			
Low Limit						-.0010			

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0006	F.0022	.0009	.0004	-.0003	.0009	.0004	.0003	.0001
Stddev	.0008	.0032	.0007	.0002	.0002	.0001	.0005	.0007	.0000
%RSD	125.1	146.6	76.10	58.29	84.04	11.17	144.4	255.7	43.90
#1	-.0001	.0014	.0002	.0006	-.0002	.0010	.0000	.0004	.0001
#2	-.0003	-.0006	.0016	.0002	-.0001	.0010	.0002	.0008	.0002
#3	-.0016	.0057	.0010	.0004	-.0005	.0008	.0009	-.0005	.0001
Check ?	Chk Pass	Chk Fail	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit		.0020							
Low Limit		-.0020							

Zoom In
Zoom Out

Sample Name: CCB Acquired: 4/3/2015 10:23:41 Type: QC
Method: 60102007_042011(v210) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3729.1	8175.0	54694.	2227.7
Stddev	3.7	8.4	454.	28.8
%RSD	.09885	.10317	.83007	1.2938
#1	3724.9	8167.3	54972.	2194.5
#2	3731.9	8173.6	54170.	2246.5
#3	3730.4	8184.0	54939.	2242.1

Zoom In
Zoom Out

Sample Name: MP28748-D2 Acquired: 4/3/2015 11:05:33 Type: Unk
Method: 60102007_042011(v210) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)
Avg	.0001	.0275	-.0017	.1893	.0003	13.51	.0000	.0078	.0003
Stddev	.0004	.0091	.0016	.0005	.0000	.08	.000	.0002	.0002
%RSD	606.7	33.03	98.34	.2573	7.942	.6249	197.1	2.200	67.56
#1	-.0002	.0376	.0002	.1888	.0003	13.48	-.0001	.0077	.0001
#2	-.0001	.0250	-.0028	.1898	.0004	13.61	.0000	.0077	.0006
#3	.0006	.0199	-.0024	.1892	.0003	13.45	-.0001	.0080	.0004

Elem	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
IS Ref	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)
Avg	.0027	.2635	.5305	2.879	.9006	.0000	F162.9	.0066	.0000
Stddev	.0004	.0132	.0366	.026	.0007	.000	1.2	.0002	.001
%RSD	16.01	5.004	6.894	.8952	.0815	7828.	.7206	3.376	2786.
#1	.0027	.2782	.4884	2.886	.8999	-.0003	162.8	.0068	-.0007
#2	.0022	.2527	.5545	2.900	.9007	.0000	164.1	.0067	.0003
#3	.0031	.2596	.5486	2.850	.9013	.0003	161.8	.0064	.0003

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	-.0009	.0037	.1990	.0003	.0140	.0008	-.0014	.0004	.0058
Stddev	.0001	.0036	.0003	.0002	.0004	.0001	.0015	.0003	.0001
%RSD	9.756	97.06	.1731	72.66	2.951	13.27	107.2	68.60	1.663
#1	-.0008	.0001	.1988	.0004	.0144	.0008	-.0004	.0001	.0058
#2	-.0009	.0039	.1994	.0001	.0141	.0007	-.0007	.0005	.0057
#3	-.0009	.0073	.1987	.0005	.0136	.0009	-.0032	.0006	.0059

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	3308.1	7955.9	52341.	2236.1
Stddev	5.4	18.7	175.	26.0
%RSD	.16385	.23503	.33447	1.1649
#1	3302.0	7944.8	52184.	2256.1
#2	3310.0	7945.5	52530.	2206.6
#3	3312.3	7977.5	52310.	2245.5

Zoom In Zoom Out

Sample Name: MP28748-MB2 Acquired: 4/3/2015 11:10:00 Type: Unk
Method: 60102007_042011(v210) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)
Avg	-.0001	.0107	-.0012	.0008	-.0002	.0345	-.0001	.0000	.0003
Stddev	.0003	.0019	.0011	.0005	.0001	.0053	.0000	.0001	.0001
%RSD	326.9	17.40	89.31	64.43	35.70	15.20	14.29	1266.	26.03
#1	-.0003	.0093	-.0013	.0010	-.0002	.0301	-.0001	.0001	.0003
#2	-.0002	.0100	-.0001	.0002	-.0003	.0404	-.0001	-.0001	.0003
#3	.0002	.0128	-.0022	.0013	-.0002	.0331	-.0001	.0000	.0002

Elem	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
IS Ref	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)
Avg	.0005	-.0022	.1467	-.0272	.0000	-.0002	F99.00	.0010	.0006
Stddev	.0003	.0007	.0212	.0047	.000	.0002	.19	.0000	.0008
%RSD	50.97	30.23	14.46	17.23	647.8	69.95	.1879	2.532	139.4
#1	.0002	-.0016	.1347	-.0256	.0000	-.0003	98.87	.0010	.0014
#2	.0006	-.0029	.1342	-.0325	.0000	-.0004	98.92	.0010	.0000
#3	.0008	-.0021	.1712	-.0236	.0000	-.0001	99.21	.0010	.0002

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	-.0005	.0020	.0218	.0003	.0000	-.0002	-.0016	.0004	.0010
Stddev	.0028	.0007	.0007	.0001	.0000	.0002	.0013	.0005	.0001
%RSD	579.9	38.36	3.293	35.08	166.2	100.5	79.88	142.8	10.35
#1	-.0018	.0017	.0212	.0003	.0001	-.0001	-.0001	-.0002	.0010
#2	.0027	.0028	.0226	.0002	.0000	-.0004	-.0022	.0004	.0009
#3	-.0024	.0014	.0217	.0003	.0000	.0000	-.0025	.0009	.0012

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	3380.5	7969.8	53008.	2247.3
Stddev	21.3	43.6	110.	39.6
%RSD	.62933	.54704	.20694	1.7615
#1	3403.8	8017.2	52883.	2290.0
#2	3362.1	7931.4	53087.	2240.3
#3	3375.6	7960.7	53054.	2211.7

Zoom In Zoom Out

Sample Name: MP28748-B2 Acquired: 4/3/2015 11:14:29 Type: Unk
Method: 60102007_042011(v210) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)
Avg	.0475	27.49	2.038	2.060	.0525	25.38	.0500	.5046	.2098
Stddev	.0005	.05	.002	.004	.0001	.03	.0001	.0002	.0002
%RSD	1.079	.1859	.1128	.1676	.2567	.1303	.2509	.0304	.0900
#1	.0469	27.45	2.040	2.059	.0527	25.42	.0498	.5045	.2099
#2	.0478	27.55	2.039	2.064	.0524	25.37	.0500	.5048	.2096
#3	.0477	27.47	2.036	2.057	.0524	25.35	.0501	.5045	.2100

Elem	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
IS Ref	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)
Avg	.2595	26.49	25.92	24.93	.5171	.4963	F125.6	.5152	.4932
Stddev	.0012	.07	.10	.18	.0010	.0005	.2	.0004	.0020
%RSD	.4461	.2510	.4035	.7413	.2022	.1056	.1704	.0815	.3982
#1	.2581	26.49	25.84	24.78	.5161	.4965	125.6	.5153	.4935
#2	.2602	26.56	25.89	24.87	.5171	.4967	125.3	.5148	.4912
#3	.2601	26.43	26.04	25.13	.5182	.4957	125.7	.5156	.4951

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	.5041	2.038	.0310	.5060	.5029	.5042	1.991	.4957	.5081
Stddev	.0017	.002	.0013	.0008	.0007	.0015	.005	.0006	.0004
%RSD	.3345	.0897	4.085	.1630	.1489	.2966	.2576	.1258	.0758
#1	.5022	2.036	.0305	.5052	.5023	.5026	1.985	.4950	.5077
#2	.5052	2.040	.0301	.5068	.5027	.5045	1.994	.4960	.5082
#3	.5050	2.039	.0324	.5060	.5037	.5055	1.994	.4961	.5084

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	3269.8	7981.9	52056.	2211.8
Stddev	8.4	7.9	362.	19.2
%RSD	.25803	.09956	.69511	.86682
#1	3275.4	7990.8	52466.	2211.1
#2	3273.9	7975.5	51783.	2231.3
#3	3260.1	7979.5	51918.	2193.0

Zoom In Zoom Out

Sample Name: MP28748-MB3 Acquired: 4/3/2015 11:18:50 Type: Unk
Method: 60102007_042011(v210) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)
Avg	-.0002	.0031	-.0001	.0006	-.0002	.0213	-.0001	-.0001	.0001
Stddev	.0006	.0102	.0007	.0008	.0000	.0072	.0000	.0002	.0000
%RSD	363.9	323.2	507.3	147.4	17.55	33.99	45.78	345.7	25.92
#1	-.0008	.0052	-.0009	.0000	-.0002	.0131	-.0001	-.0002	.0001
#2	-.0001	.0121	.0004	.0015	-.0002	.0267	-.0001	.0002	.0002
#3	.0004	-.0079	.0001	.0001	-.0002	.0241	-.0001	-.0001	.0001

Elem	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
IS Ref	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)
Avg	.0021	.0106	.3525	.0069	.0001	.0001	F150.3	.0002	-.0002
Stddev	.0002	.0019	.0269	.0181	.0001	.0003	.6	.0001	.0010
%RSD	11.86	18.41	7.627	262.7	128.1	193.7	.3869	57.74	678.3
#1	.0023	.0128	.3505	-.0075	.0000	.0005	151.0	.0003	-.0003
#2	.0018	.0091	.3804	.0272	.0001	.0000	150.0	.0002	-.0011
#3	.0021	.0099	.3267	.0010	.0002	.0000	149.9	.0001	.0009

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	-.0017	.0018	.0213	.0002	.0000	.0002	-.0011	.0002	.0026
Stddev	.0008	.0031	.0007	.0004	.000	.0002	.0007	.0009	.0000
%RSD	46.44	172.3	3.513	168.7	346.4	155.0	67.50	512.3	.6267
#1	-.0008	.0051	.0221	.0007	-.0002	-.0001	-.0019	.0005	.0026
#2	-.0023	.0015	.0213	.0000	-.0001	.0001	-.0007	-.0009	.0026
#3	-.0019	-.0012	.0206	.0000	.0001	.0004	-.0006	.0009	.0026

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	3333.1	7933.6	51760.	2203.2
Stddev	13.4	59.3	442.	18.1
%RSD	.40079	.74732	.85455	.82214
#1	3341.5	7978.8	52269.	2184.3
#2	3317.7	7866.5	51470.	2205.1
#3	3340.0	7955.5	51541.	2220.3

Zoom In Zoom Out

Sample Name: MP28748-B3 Acquired: 4/3/2015 11:23:17 Type: Unk
Method: 60102007_042011(v210) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)
Avg	.0491	27.65	2.061	2.065	.0525	25.73	.0504	.5043	.2124
Stddev	.0006	.22	.003	.018	.0006	.25	.0002	.0005	.0004
%RSD	1.206	.7859	.1556	.8780	1.089	.9709	.4188	.0911	.2078
#1	.0493	27.46	2.059	2.049	.0521	25.49	.0502	.5038	.2129
#2	.0496	27.89	2.065	2.084	.0532	25.98	.0503	.5043	.2121
#3	.0485	27.60	2.061	2.061	.0523	25.71	.0506	.5047	.2121

Elem	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
IS Ref	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)
Avg	.2595	26.68	26.51	25.15	.5192	.4978	F174.6	.5146	.4994
Stddev	.0006	.24	.22	.23	.0008	.0004	1.4	.0006	.0032
%RSD	.2284	.8836	.8163	.9208	.1557	.0837	.7963	.1104	.6507
#1	.2599	26.45	26.31	24.90	.5187	.4975	173.3	.5141	.4958
#2	.2598	26.92	26.74	25.36	.5202	.4976	176.1	.5143	.5001
#3	.2588	26.68	26.48	25.19	.5188	.4982	174.3	.5152	.5022

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	.5060	2.065	.0277	.5083	.5048	.5062	1.996	.5001	.5127
Stddev	.0007	.001	.0012	.0003	.0045	.0013	.004	.0017	.0004
%RSD	.1338	.0572	4.321	.0572	.8895	.2570	.1970	.3477	.0774
#1	.5054	2.066	.0288	.5080	.5013	.5056	1.991	.4994	.5124
#2	.5058	2.064	.0264	.5082	.5099	.5077	1.998	.5021	.5125
#3	.5068	2.066	.0280	.5086	.5032	.5053	1.998	.4988	.5131

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	3218.0	7899.8	50828.	2171.1
Stddev	12.1	31.1	185.	24.3
%RSD	.37742	.39366	.36417	1.1197
#1	3227.1	7917.6	50675.	2196.2
#2	3204.2	7863.9	50774.	2169.3
#3	3222.8	7918.0	51034.	2147.7

Zoom In
Zoom Out

Sample Name: MP28748-MB4 Acquired: 4/3/2015 11:27:40 Type: Unk
Method: 60102007_042011(v210) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)
Avg	-.0004	.0346	-.0013	.0009	-.0001	.0111	-.0001	.0000	.0005
Stddev	.0002	.0225	.0007	.0006	.0001	.0009	.0000	.0001	.0000
%RSD	63.64	64.91	55.09	73.18	127.4	7.960	23.36	1945.	3.012
#1	-.0003	.0602	-.0021	.0007	-.0003	.0110	-.0001	.0002	.0005
#2	-.0007	.0181	-.0007	.0016	.0000	.0120	.0000	.0000	.0005
#3	-.0002	.0255	-.0011	.0003	-.0001	.0103	-.0001	-.0001	.0005

Elem	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
IS Ref	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)
Avg	.0000	.0053	.4788	-.0260	.0000	.0001	F164.3	.0003	-.0001
Stddev	.001	.0060	.0989	.0135	.0001	.0001	.5	.0002	.0013
%RSD	2488.	113.7	20.65	51.93	195.9	54.12	.3029	71.58	940.9
#1	.0006	.0091	.5434	-.0403	.0001	.0001	163.8	.0002	-.0007
#2	.0001	-.0017	.3650	-.0242	.0000	.0001	164.7	.0005	.0013
#3	-.0008	.0085	.5279	-.0135	.0000	.0002	164.4	.0002	-.0010

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	-.0017	.0019	.0203	.0001	.0001	.0001	-.0019	.0001	.0015
Stddev	.0017	.0030	.0006	.0003	.0004	.0003	.0010	.0004	.0000
%RSD	97.63	161.0	3.089	401.1	344.7	250.5	49.93	342.2	2.966
#1	-.0020	-.0016	.0199	-.0002	-.0001	.0004	-.0029	-.0002	.0014
#2	-.0032	.0039	.0210	.0000	-.0001	.0000	-.0019	.0006	.0015
#3	.0001	.0034	.0200	.0004	.0006	-.0001	-.0010	.0000	.0015

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	3327.0	7943.5	52322.	2209.8
Stddev	17.5	41.0	239.	6.3
%RSD	.52750	.51643	.45611	.28733
#1	3338.5	7967.2	52122.	2205.3
#2	3335.7	7967.1	52586.	2217.1
#3	3306.8	7896.1	52257.	2207.0

Zoom In
Zoom Out

Sample Name: MP28748-B4 Acquired: 4/3/2015 11:32:09 Type: Unk
Method: 60102007_042011(v210) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)
Avg	.0484	27.22	2.023	2.030	.0517	25.22	.0495	.4948	.2075
Stddev	.0006	.33	.005	.020	.0007	.27	.0002	.0004	.0009
%RSD	1.143	1.205	.2404	.9663	1.372	1.064	.3410	.0900	.4169
#1	.0479	26.91	2.024	2.010	.0513	24.94	.0493	.4943	.2085
#2	.0490	27.19	2.017	2.032	.0514	25.25	.0497	.4950	.2069
#3	.0483	27.57	2.027	2.049	.0525	25.47	.0495	.4951	.2070

Elem	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
IS Ref	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)
Avg	.2534	26.24	26.24	24.66	.5125	.4865	F187.0	.5052	.4907
Stddev	.0009	.26	.28	.32	.0004	.0006	1.9	.0005	.0005
%RSD	.3628	1.002	1.050	1.310	.0833	.1233	1.041	.0999	.0948
#1	.2530	26.00	25.99	24.32	.5129	.4858	185.0	.5049	.4913
#2	.2544	26.20	26.20	24.69	.5124	.4869	187.2	.5058	.4904
#3	.2527	26.52	26.53	24.96	.5121	.4868	188.9	.5049	.4906

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	.4954	2.030	.0308	.4986	.4946	.4961	1.960	.4897	.5056
Stddev	.0024	.002	.0013	.0003	.0051	.0002	.001	.0013	.0007
%RSD	.4936	.0921	4.263	.0694	1.037	.0318	.0711	.2696	.1296
#1	.4927	2.032	.0297	.4989	.4890	.4963	1.961	.4912	.5052
#2	.4958	2.028	.0304	.4982	.4956	.4961	1.959	.4886	.5053
#3	.4976	2.030	.0322	.4986	.4991	.4960	1.959	.4893	.5064

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	3231.2	7949.9	51329.	2145.3
Stddev	6.7	25.1	115.	41.9
%RSD	.20862	.31603	.22500	1.9510
#1	3234.9	7968.1	51403.	2192.5
#2	3235.3	7960.3	51196.	2130.7
#3	3223.4	7921.2	51389.	2112.7

Zoom In
Zoom Out

Sample Name: MP28748-MB5 Acquired: 4/3/2015 11:36:32 Type: Unk
Method: 60102007_042011(v210) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	-.0010	-.0038	-.0018	.0001	-.0001	.0078	-.0001	.0000	.0004	.0002
Stddev	.0007	.0497	.0003	.0009	.0001	.0083	.0000	.000	.0002	.0004
%RSD	69.58	1311.	16.97	1617.	113.8	107.4	41.50	90.19	50.94	244.3
#1	-.0017	-.0570	-.0019	.0011	-.0002	.0099	-.0001	-.0001	.0006	.0006
#2	-.0005	.0415	-.0015	-.0002	-.0002	.0148	-.0001	.0000	.0005	-.0003
#3	-.0007	.0041	-.0021	-.0007	.0000	-.0014	.0000	.0000	.0002	.0003

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	.0079	.1642	.0140	-.0001	.0000	.2586	.0001	.0001	-.0025	.0014
Stddev	.0062	.0248	.0276	.0001	.0001	.0163	.0001	.0014	.0007	.0006
%RSD	78.48	15.11	196.9	131.9	279.8	6.308	117.1	2573.	30.21	40.54
#1	.0128	.1922	.0378	.0000	.0001	.2475	.0000	-.0014	-.0017	.0021
#2	.0009	.1449	.0204	-.0002	-.0001	.2773	.0002	.0001	-.0024	.0012
#3	.0099	.1555	-.0162	-.0001	.0000	.2509	.0003	.0015	-.0032	.0009

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	.0219	-.0002	.0000	.0001	.0005	-.0002	.0004
Stddev	.0008	.0002	.0001	.0002	.0003	.0003	.0001
%RSD	3.806	102.2	411.3	337.8	62.66	177.3	16.46
#1	.0224	-.0003	.0001	.0001	.0009	.0001	.0005
#2	.0224	-.0002	-.0001	-.0002	.0002	-.0001	.0004
#3	.0210	.0000	.0001	.0002	.0005	-.0005	.0004

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	3752.8	8357.6	55867.	2162.5
Stddev	5.0	10.3	258.	11.6
%RSD	.13306	.12282	.46131	.53791
#1	3748.0	8354.1	55648.	2174.9
#2	3758.0	8369.2	56151.	2160.9
#3	3752.5	8349.6	55801.	2151.8

Zoom In
Zoom Out

Sample Name: MP28748-B5 Acquired: 4/3/2015 11:41:00 Type: Unk
Method: 60102007_042011(v210) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	.0473	27.38	1.976	2.050	.0518	25.35	.0493	.5002	.2065	.2581
Stddev	.0003	.08	.003	.004	.0004	.13	.0003	.0004	.0005	.0016
%RSD	.7069	.3058	.1541	.2180	.7324	.5187	.6491	.0838	.2435	.6046
#1	.0470	27.33	1.973	2.051	.0514	25.21	.0490	.4997	.2069	.2567
#2	.0473	27.48	1.975	2.046	.0519	25.48	.0496	.5005	.2066	.2598
#3	.0477	27.34	1.979	2.054	.0521	25.36	.0494	.5003	.2059	.2577

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	26.30	25.69	25.13	.5137	.4889	26.09	.5093	.4811	.4912	1.972
Stddev	.11	.08	.07	.0009	.0004	.09	.0014	.0007	.0006	.002
%RSD	.4111	.3204	.2882	.1800	.0764	.3371	.2677	.1495	.1315	.0935
#1	26.22	25.60	25.05	.5127	.4885	25.99	.5095	.4803	.4905	1.971
#2	26.42	25.75	25.18	.5140	.4890	26.15	.5079	.4815	.4917	1.974
#3	26.26	25.73	25.17	.5145	.4892	26.13	.5106	.4815	.4914	1.972

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	.0318	.5036	.5017	.4975	1.965	.4848	.4988
Stddev	.0006	.0004	.0014	.0003	.005	.0008	.0007
%RSD	2.035	.0891	.2767	.0528	.2673	.1747	.1428
#1	.0316	.5032	.5002	.4974	1.968	.4845	.4986
#2	.0314	.5041	.5030	.4973	1.959	.4858	.4981
#3	.0326	.5036	.5018	.4978	1.969	.4842	.4995

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	3382.3	8066.9	52547.	2151.4
Stddev	2.8	14.8	320.	3.3
%RSD	.08152	.18296	.60888	.15461
#1	3379.1	8052.3	52862.	2151.1
#2	3384.1	8081.8	52223.	2154.9
#3	3383.6	8066.6	52557.	2148.2

Zoom In Zoom Out

Sample Name: FA23172-5 Acquired: 4/3/2015 11:45:23 Type: Unk
Method: 60102007_042011(v210) Mode: CONC Corr. Factor: 4.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)
Avg	.0046	.3585	-.0020	.3590	-.0002	950.1	-.0005	.0009	.0081
Stddev	.0028	.0670	.0083	.0035	.0004	6.5	.0002	.0008	.0014
%RSD	60.46	18.70	414.5	.9845	183.0	.6869	31.15	86.30	17.24
#1	.0075	.4097	.0050	.3631	-.0003	957.5	-.0004	.0000	.0068
#2	.0019	.3832	-.0111	.3575	-.0006	945.1	-.0004	.0014	.0078
#3	.0044	.2827	.0001	.3565	.0002	947.8	-.0007	.0012	.0096

Elem	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
IS Ref	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)
Avg	-.0052	2.041	139.8	1151.	.6405	.0021	F4336.	.0028	-.0003
Stddev	.0007	.020	2.1	8.	.0020	.0010	113.	.0008	.0038
%RSD	13.78	.9557	1.523	.6790	.3072	46.63	2.596	28.71	1228.
#1	-.0044	2.059	142.1	1160.	.6398	.0027	4460.	.0032	-.0042
#2	-.0057	2.043	138.0	1146.	.6428	.0010	4307.	.0019	.0034
#3	-.0054	2.020	139.1	1146.	.6390	.0027	4241.	.0033	-.0001

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	.0053	.0053	4.693	-.0003	9.050	.0131	-.0064	.0144	.0107
Stddev	.0057	.0055	.012	.0015	.052	.0015	.0002	.0020	.0004
%RSD	106.0	103.6	.2493	486.6	.5706	11.65	2.953	13.55	4.143
#1	.0035	.0108	4.683	-.0013	9.107	.0128	-.0063	.0137	.0112
#2	.0008	-.0002	4.690	-.0010	9.006	.0118	-.0066	.0130	.0106
#3	.0117	.0053	4.706	.0014	9.039	.0148	-.0063	.0167	.0103

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	2720.0	6947.1	43753.	2051.4
Stddev	4.1	7.6	176.	22.8
%RSD	.15059	.10966	.40225	1.1092
#1	2720.9	6938.7	43945.	2025.1
#2	2723.6	6953.5	43716.	2064.8
#3	2715.6	6949.1	43599.	2064.2

Zoom In Zoom Out

Sample Name: CCV Acquired: 4/3/2015 11:49:58 Type: QC
Method: 60102007_042011(v210) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2450	40.02	1.957	2.004	2.006	39.98	1.972	1.975	1.989	1.996
Stddev	.0011	.10	.007	.001	.004	.11	.003	.001	.005	.002
%RSD	.4693	.2516	.3697	.0454	.1755	.2627	.1635	.0611	.2714	.0858
#1	.2457	40.03	1.962	2.003	2.005	39.89	1.972	1.974	1.993	1.998
#2	.2457	39.92	1.962	2.005	2.003	39.94	1.975	1.976	1.991	1.995
#3	.2437	40.12	1.949	2.005	2.010	40.09	1.968	1.975	1.983	1.997
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value										
Range										

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	40.13	41.06	39.72	2.035	1.972	39.24	1.983	1.957	1.960	1.977
Stddev	.12	.09	.19	.017	.003	.14	.004	.006	.004	.005
%RSD	.2941	.2122	.4755	.8147	.1520	.3557	.2281	.3150	.1977	.2323
#1	40.06	41.09	39.75	2.039	1.968	39.25	1.978	1.954	1.960	1.978
#2	40.07	40.96	39.51	2.049	1.974	39.09	1.985	1.953	1.964	1.980
#3	40.27	41.13	39.88	2.016	1.973	39.37	1.987	1.964	1.956	1.972
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value										
Range										

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.018	1.957	2.005	2.008	1.980	1.973	1.971
Stddev	.003	.002	.004	.003	.005	.004	.003
%RSD	.1562	.0741	.2153	.1391	.2386	.2240	.1737
#1	2.017	1.957	2.008	2.012	1.974	1.977	1.967
#2	2.021	1.959	2.000	2.007	1.981	1.968	1.973
#3	2.015	1.956	2.008	2.007	1.983	1.974	1.973
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Zoom In Zoom Out

Sample Name: CCV Acquired: 4/3/2015 11:49:58 Type: QC
Method: 60102007_042011(v210) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3243.3	7971.2	52172.	2136.8
Stddev	8.5	30.0	275.	26.4
%RSD	.26346	.37584	.52764	1.2367
#1	3245.2	7973.8	51943.	2125.9
#2	3234.0	7940.1	52094.	2166.9
#3	3250.8	7999.8	52477.	2117.6

Zoom In Zoom Out

Sample Name: CCB Acquired: 4/3/2015 11:54:28 Type: QC
Method: 60102007_042011(v210) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0003	-.0046	-.0006	.0007	.0001	.0032	.0001	.0001	.0004
Stddev	.0011	.0286	.0011	.0004	.0000	.0059	.0000	.0002	.0003
%RSD	339.3	627.2	165.3	58.68	43.21	185.9	33.91	158.6	71.85
#1	-.0006	.0236	-.0007	.0005	.0000	.0011	.0001	.0001	.0003
#2	.0009	-.0337	-.0017	.0012	.0001	.0098	.0001	-.0001	.0007
#3	-.0013	-.0036	.0004	.0004	.0001	-.0014	.0001	.0002	.0002
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0001	.0177	.1634	-.0129	.0000	F.0015	.3866	-.0001	.0000
Stddev	.0002	.0026	.0564	.0109	.000	.0003	.0427	.0003	.000
%RSD	191.6	14.87	34.50	84.32	2492.	19.39	11.04	233.8	114400.
#1	.0002	.0206	.2009	-.0225	.0000	.0017	.4249	-.0004	-.0003
#2	.0002	.0154	.0986	-.0150	-.0001	.0017	.3406	-.0001	-.0001
#3	-.0001	.0173	.1908	-.0011	.0000	.0012	.3944	.0002	.0004
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit						.0010			
Low Limit						-.0010			

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0010	.0010	.0008	.0001	-.0002	.0011	.0009	-.0001	.0001
Stddev	.0002	.0025	.0005	.0004	.0001	.0002	.0006	.0004	.0000
%RSD	23.97	255.9	64.02	290.9	32.59	15.21	65.17	358.5	16.13
#1	.0010	.0009	.0009	.0000	-.0002	.0010	.0016	.0004	.0001
#2	.0013	.0036	.0013	.0006	-.0003	.0013	.0006	-.0005	.0001
#3	.0008	-.0015	.0003	-.0002	-.0003	.0010	.0006	-.0002	.0001
Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Zoom In
Zoom Out

Sample Name: CCB Acquired: 4/3/2015 11:54:28 Type: QC
Method: 60102007_042011(v210) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3790.4	8397.5	55661.	2208.1
Stddev	5.2	16.4	112.	29.6
%RSD	.13645	.19552	.20202	1.3405
#1	3784.8	8378.9	55738.	2209.1
#2	3791.5	8409.9	55713.	2178.1
#3	3795.0	8403.8	55532.	2237.2

Zoom In
Zoom Out

Sample Name: FA23189-27 Acquired: 4/3/2015 11:58:57 Type: Unk
Method: 60102007_042011(v210) Mode: CONC Corr. Factor: 10.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	-.0082	222.8	.0539	1.939	.0082	3448.	.0024	.0730	.2180	.1822
Stddev	.0127	1.5	.0067	.011	.0028	24.	.0006	.0005	.0045	.0029
%RSD	154.9	.6841	12.41	.5410	33.74	.6836	26.66	.6347	2.080	1.571
#1	-.0062	221.4	.0464	1.929	.0109	3430.	.0029	.0725	.2180	.1797
#2	-.0217	222.5	.0592	1.938	.0054	3440.	.0017	.0734	.2134	.1817
#3	.0034	224.4	.0562	1.950	.0083	3474.	.0025	.0731	.2225	.1853

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	189.2	80.02	138.0	3.204	.0182	87.99	.1848	.1202	.0013	.0352
Stddev	1.5	.82	.9	.010	.0033	.46	.0011	.0324	.0021	.0195
%RSD	.7732	1.025	.6254	.2994	18.21	.5253	.5799	26.97	159.6	55.40
#1	187.8	80.67	137.4	3.214	.0168	87.51	.1859	.1533	.0006	.0567
#2	189.2	79.10	137.6	3.195	.0158	88.02	.1838	.1188	.0037	.0188
#3	190.7	80.30	139.0	3.203	.0220	88.43	.1845	.0885	-.0003	.0299

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	13.84	.0213	11.90	3.663	-.0076	.3741	.5550
Stddev	.03	.0029	.08	.010	.0223	.0042	.0013
%RSD	.1941	13.66	.6509	.2807	291.1	1.134	.2280
#1	13.82	.0211	11.83	3.673	.0170	.3693	.5536
#2	13.84	.0243	11.89	3.652	-.0262	.3773	.5553
#3	13.87	.0185	11.98	3.662	-.0138	.3757	.5561

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	3204.2	7925.3	52003.	2166.1
Stddev	10.5	34.5	131.	10.3
%RSD	.32633	.43580	.25128	.47404
#1	3211.7	7950.3	52154.	2171.4
#2	3208.6	7939.7	51933.	2172.5
#3	3192.3	7885.9	51922.	2154.2

Zoom In
Zoom Out

Sample Name: FA23201-7 Acquired: 4/3/2015 12:03:21 Type: Unk
Method: 60102007_042011(v210) Mode: CONC Corr. Factor: 10.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	-.0091	117.8	.0046	.3276	.0083	219.1	.0044	.0247	.5232	.0804
Stddev	.0048	.7	.0081	.0070	.0026	1.2	.0004	.0010	.0035	.0029
%RSD	52.61	.5878	178.0	2.128	31.22	.5566	8.765	4.242	.6765	3.581
#1	-.0123	117.1	.0119	.3204	.0055	217.7	.0049	.0237	.5270	.0823
#2	-.0036	118.4	-.0041	.3343	.0086	219.9	.0042	.0258	.5200	.0771
#3	-.0114	118.1	.0059	.3281	.0106	219.6	.0042	.0247	.5226	.0819

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	29.17	10.60	5.595	15.72	.0018	444.4	.0734	.0919	-.0107	.0294
Stddev	.04	.58	.050	.13	.0009	1.7	.0029	.0057	.0093	.0135
%RSD	.1452	5.466	.8877	.8161	48.28	.3874	3.981	6.220	87.06	46.00
#1	29.22	10.19	5.582	15.80	.0028	442.5	.0764	.0985	-.0060	.0291
#2	29.15	11.27	5.554	15.57	.0011	444.8	.0733	.0889	-.0214	.0160
#3	29.13	10.35	5.650	15.78	.0015	445.9	.0706	.0883	-.0047	.0431

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	51.08	-.0007	4.193	.1856	-.0141	.1274	.1417
Stddev	.02	.0024	.021	.0005	.0106	.0021	.0006
%RSD	.0316	370.5	.4955	.2935	74.79	1.611	.4230
#1	51.09	.0019	4.172	.1861	-.0230	.1251	.1424
#2	51.08	-.0009	4.213	.1851	-.0170	.1281	.1412
#3	51.06	-.0029	4.194	.1857	-.0024	.1290	.1414

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	3405.9	8613.8	56146.	2254.6
Stddev	9.2	22.5	194.	9.1
%RSD	.26889	.26158	.34566	.40531
#1	3413.0	8630.6	55928.	2265.0
#2	3395.6	8588.2	56299.	2248.2
#3	3409.1	8622.5	56210.	2250.4

Zoom In
Zoom Out

Sample Name: FA23224-4 Acquired: 4/3/2015 12:07:55 Type: Unk
Method: 60102007_042011(v210) Mode: CONC Corr. Factor: 25.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	-.0328	91.19	.0362	2.474	.0115	34.36	.0815	.0222	.2744	.0495
Stddev	.0037	.33	.0161	.011	.0038	.13	.0010	.0028	.0045	.0078
%RSD	11.13	.3599	44.36	.4242	33.26	.3818	1.265	12.67	1.644	15.75
#1	-.0370	90.83	.0370	2.485	.0090	34.39	.0810	.0251	.2694	.0468
#2	-.0309	91.46	.0198	2.473	.0159	34.46	.0827	.0195	.2756	.0433
#3	-.0305	91.27	.0519	2.464	.0096	34.21	.0809	.0219	.2781	.0582

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	15.53	4.762	3.104	.0379	.0143	36.34	.0296	.1442	-.0430	.0813
Stddev	.17	1.572	.309	.0007	.0057	.03	.0086	.0109	.0365	.0242
%RSD	1.064	33.02	9.937	1.877	39.43	.0729	29.10	7.590	84.98	29.78
#1	15.43	5.254	2.784	.0385	.0139	36.34	.0237	.1370	-.0471	.0777
#2	15.72	6.031	3.129	.0382	.0202	36.37	.0256	.1568	-.0046	.0590
#3	15.44	3.003	3.400	.0371	.0089	36.32	.0395	.1389	-.0773	.1071

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	37.71	-.0059	5.196	.2165	.0219	.1832	.1240
Stddev	.02	.0089	.021	.0053	.0251	.0060	.0007
%RSD	.0616	149.5	.4123	2.444	114.8	3.283	.5875
#1	37.68	-.0113	5.195	.2207	.0468	.1866	.1246
#2	37.71	.0043	5.217	.2183	-.0034	.1763	.1243
#3	37.73	-.0107	5.174	.2106	.0223	.1868	.1232

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	3685.5	9254.9	60935.	2393.0
Stddev	6.1	12.1	194.	23.6
%RSD	.16580	.13027	.31810	.98826
#1	3678.7	9242.1	60927.	2366.7
#2	3687.1	9266.0	61133.	2399.8
#3	3690.6	9256.6	60746.	2412.5

Zoom In Zoom Out

Sample Name: FA23224-5 Acquired: 4/3/2015 12:12:23 Type: Unk
Method: 60102007_042011(v210) Mode: CONC Corr. Factor: 20.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	-.0258	41.56	.0228	1.467	.0048	18.82	.0517	.0128	.1307	.0232
Stddev	.0075	.30	.0307	.012	.0031	.08	.0008	.0030	.0093	.0045
%RSD	28.90	.7205	134.7	.8052	64.54	.4254	1.584	23.61	7.144	19.38
#1	-.0342	41.78	.0463	1.476	.0058	18.76	.0513	.0143	.1410	.0284
#2	-.0198	41.22	-.0120	1.453	.0074	18.80	.0527	.0148	.1281	.0204
#3	-.0236	41.67	.0341	1.471	.0014	18.91	.0512	.0093	.1229	.0208

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	8.714	2.140	1.266	.0201	.0010	32.64	.0129	.0821	-.0289	.0824
Stddev	.122	1.025	.808	.0004	.0000	.51	.0015	.0033	.0509	.0416
%RSD	1.394	47.91	63.82	1.987	1.156	1.566	11.62	4.069	176.4	50.44
#1	8.788	1.273	2.196	.0206	.0010	32.28	.0145	.0783	-.0416	.0825
#2	8.574	3.272	.7414	.0198	.0010	32.41	.0116	.0837	-.0722	.1240
#3	8.780	1.877	.8601	.0200	.0011	33.22	.0125	.0844	.0272	.0408

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	22.93	-.0081	3.009	.1318	.0038	.0950	.0823
Stddev	.00	.0032	.017	.0039	.0351	.0039	.0008
%RSD	.0132	39.20	.5567	2.981	922.4	4.129	.9780
#1	22.93	-.0051	3.021	.1282	.0240	.0905	.0815
#2	22.92	-.0079	2.990	.1312	-.0367	.0975	.0831
#3	22.93	-.0114	3.015	.1360	.0242	.0969	.0824

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	3713.5	9027.2	59535.	2341.9
Stddev	9.5	25.4	408.	12.5
%RSD	.25487	.28098	.68467	.53431
#1	3724.0	9056.3	59330.	2329.5
#2	3705.5	9015.7	60004.	2354.5
#3	3711.1	9009.7	59270.	2341.7

Zoom In Zoom Out

Sample Name: FA23224-7 Acquired: 4/3/2015 12:16:52 Type: Unk
Method: 60102007_042011(v210) Mode: CONC Corr. Factor: 25.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	-.0310	40.07	-.0084	1.515	.0034	16.71	.0610	.0123	.1204	.0227
Stddev	.0139	.88	.0048	.012	.0032	.11	.0013	.0004	.0060	.0091
%RSD	44.84	2.206	57.22	.7681	93.69	.6555	2.061	3.548	5.002	40.19
#1	-.0383	40.50	-.0029	1.512	.0062	16.59	.0601	.0122	.1207	.0144
#2	-.0398	40.66	-.0116	1.528	.0000	16.78	.0603	.0119	.1262	.0325
#3	-.0150	39.05	-.0108	1.505	.0040	16.77	.0624	.0128	.1142	.0211

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	9.063	3.481	1.094	.0168	.0003	33.80	.0181	.0747	-.0327	.1255
Stddev	.106	1.876	.241	.0019	.0062	.19	.0051	.0135	.0169	.0468
%RSD	1.165	53.90	22.07	11.03	1826.	.5678	28.02	18.09	51.67	37.25
#1	8.992	1.334	1.143	.0174	.0050	33.91	.0154	.0663	-.0522	.0933
#2	9.013	4.805	.8316	.0147	-.0067	33.90	.0149	.0903	-.0241	.1041
#3	9.185	4.305	1.307	.0183	.0026	33.57	.0240	.0676	-.0218	.1792

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	21.08	-.0040	3.227	.1190	-.0061	.0760	.0620
Stddev	.03	.0089	.016	.0028	.0227	.0073	.0006
%RSD	.1518	223.0	.5054	2.381	371.4	9.575	.9961
#1	21.10	-.0107	3.225	.1223	.0188	.0843	.0613
#2	21.04	.0061	3.245	.1179	-.0257	.0724	.0624
#3	21.09	-.0074	3.212	.1170	-.0114	.0712	.0623

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	3710.4	8917.0	58615.	2299.8
Stddev	11.8	32.5	288.	11.7
%RSD	.31870	.36422	.49180	.50818
#1	3698.1	8899.5	58533.	2287.7
#2	3721.7	8954.5	58935.	2311.1
#3	3711.3	8897.0	58376.	2300.7

Zoom In Zoom Out

Sample Name: FA22818-1 Acquired: 4/3/2015 12:21:21 Type: Unk
Method: 60102007_042011(v210) Mode: CONC Corr. Factor: 10.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)
Avg	-.0127	839.9	.1262	2.866	.0087	2257.	.1005	.2804	2.439
Stddev	.0063	1.7	.0008	.015	.0010	6.	.0009	.0005	.002
%RSD	49.70	.2034	.6658	.5253	11.89	.2519	.9197	.1906	.0667
#1	-.0057	839.0	.1270	2.872	.0075	2253.	.1000	.2801	2.438
#2	-.0180	838.7	.1264	2.849	.0091	2254.	.1015	.2801	2.441
#3	-.0146	841.8	.1253	2.877	.0094	2264.	.0998	.2810	2.438

Elem	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
IS Ref	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)
Avg	1.271	903.2	21.92	37.70	37.75	.1047	9.553	.4373	1.137
Stddev	.003	2.9	.40	.51	.36	.0018	.402	.0045	.013
%RSD	.2580	.3228	1.809	1.360	.9409	1.673	4.211	1.035	1.110
#1	1.274	902.1	22.37	37.25	38.16	.1063	9.472	.4403	1.148
#2	1.269	901.0	21.60	37.59	37.61	.1049	9.197	.4321	1.139
#3	1.268	906.5	21.79	38.25	37.49	.1028	9.989	.4394	1.123

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	.0423	.0450	9.182	.0206	F53.21	29.50	-.0325	.6569	12.32
Stddev	.0103	.0215	.004	.0054	.07	.15	.0195	.0059	.02
%RSD	24.43	47.87	.0378	26.48	.1299	.5250	60.08	.8934	.1435
#1	.0448	.0698	9.180	.0186	53.24	29.51	-.0115	.6581	12.30
#2	.0511	.0336	9.180	.0267	53.13	29.64	-.0501	.6505	12.33
#3	.0309	.0316	9.186	.0164	53.26	29.33	-.0359	.6621	12.33

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	3282.1	8924.8	57989.	2398.0
Stddev	1.1	21.0	152.	27.1
%RSD	.03306	.23528	.26177	1.1320
#1	3280.9	8938.7	57823.	2419.0
#2	3282.9	8900.7	58024.	2407.8
#3	3282.6	8935.2	58121.	2367.4

Zoom In Zoom Out

Sample Name: MP28745-D1 Acquired: 4/3/2015 12:26:04 Type: Unk
Method: 60102007_042011(v210) Mode: CONC Corr. Factor: 10.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)
Avg	.0005	880.8	.1385	3.040	.0102	2049.	.1058	.3010	2.653
Stddev	.0086	1.0	.0064	.012	.0004	2.	.0006	.0005	.009
%RSD	1738.	.1190	4.602	.4024	4.234	.1143	.5331	.1749	.3387
#1	-.0023	880.2	.1320	3.030	.0100	2047.	.1058	.3005	2.659
#2	.0101	882.1	.1388	3.053	.0099	2052.	.1053	.3012	2.642
#3	-.0063	880.3	.1447	3.035	.0107	2048.	.1064	.3015	2.656

Elem	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
IS Ref	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)
Avg	1.495	1068.	22.99	37.70	F40.01	.2934	9.835	.5794	.8865
Stddev	.004	2.	.45	.25	.34	.0047	.185	.0008	.0062
%RSD	.2519	.1790	1.973	.6648	.8503	1.608	1.878	.1425	.7021
#1	1.496	1066.	22.61	37.87	40.37	.2974	9.623	.5800	.8933
#2	1.490	1070.	22.87	37.41	39.69	.2882	9.923	.5785	.8850
#3	1.497	1068.	23.49	37.81	39.98	.2946	9.959	.5798	.8811

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	.0349	.0562	7.068	.0242	F55.27	30.52	-.0302	.6587	12.14
Stddev	.0213	.0386	.022	.0013	.18	.43	.0131	.0063	.01
%RSD	61.14	68.66	.3065	5.355	.3256	1.424	43.30	.9578	.0701
#1	.0126	.0187	7.090	.0242	55.15	31.00	-.0164	.6568	12.15
#2	.0551	.0541	7.047	.0229	55.48	30.16	-.0316	.6536	12.14
#3	.0370	.0959	7.067	.0255	55.18	30.39	-.0424	.6657	12.13

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	3308.9	9040.7	58235.	2420.4
Stddev	6.8	6.4	280.	16.0
%RSD	.20466	.07045	.48035	.65936
#1	3312.6	9045.7	58017.	2408.7
#2	3301.1	9033.5	58551.	2414.0
#3	3312.9	9042.8	58137.	2438.6

Zoom In Zoom Out

Sample Name: MP28745-D2 Acquired: 4/3/2015 12:30:46 Type: Unk
Method: 60102007_042011(v210) Mode: CONC Corr. Factor: 10.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)
Avg	-.0094	879.2	.1527	3.018	.0095	2238.	.1054	.2968	2.573
Stddev	.0103	6.5	.0109	.014	.0028	19.	.0011	.0021	.010
%RSD	110.2	.7437	7.126	.4677	29.66	.8654	1.069	.7196	.3831
#1	-.0023	877.5	.1507	3.006	.0063	2229.	.1058	.2991	2.580
#2	-.0212	873.6	.1645	3.016	.0110	2225.	.1062	.2950	2.562
#3	-.0047	886.4	.1430	3.034	.0113	2261.	.1041	.2962	2.577

Elem	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
IS Ref	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)
Avg	1.398	992.3	22.49	38.11	39.55	.1357	9.469	.5167	1.030
Stddev	.004	8.6	.20	.40	.30	.0022	.188	.0042	.011
%RSD	.2767	.8691	.8848	1.048	.7659	1.618	1.987	.8207	1.042
#1	1.395	989.5	22.28	37.73	39.29	.1367	9.268	.5172	1.042
#2	1.396	985.3	22.68	38.07	39.89	.1332	9.641	.5122	1.022
#3	1.402	1002.	22.50	38.53	39.48	.1373	9.498	.5206	1.026

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	.0502	.0306	7.329	.0208	F55.59	30.50	-.0278	.6720	12.40
Stddev	.0172	.0206	.014	.0022	.52	.44	.0028	.0025	.02
%RSD	34.26	67.21	.1911	10.48	.9352	1.449	10.02	.3691	.1769
#1	.0309	.0198	7.345	.0208	55.35	30.08	-.0310	.6747	12.42
#2	.0560	.0176	7.318	.0186	55.24	30.45	-.0270	.6712	12.38
#3	.0638	.0543	7.325	.0230	56.19	30.96	-.0256	.6700	12.42

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	3265.6	8943.3	58174.	2399.3
Stddev	10.6	22.6	427.	28.4
%RSD	.32598	.25299	.73475	1.1839
#1	3273.3	8950.7	58189.	2398.1
#2	3270.0	8961.4	58594.	2428.3
#3	3253.5	8917.9	57740.	2371.5

Zoom In Zoom Out

Sample Name: MP28745-S1 Acquired: 4/3/2015 12:35:29 Type: Unk
Method: 60102007_042011(v210) Mode: CONC Corr. Factor: 10.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)
Avg	.0270	805.4	1.542	4.208	.0448	1890.	.1308	.6279	2.422
Stddev	.0041	.6	.013	.036	.0014	4.	.0003	.0026	.004
%RSD	15.32	.0798	.8306	.8635	3.203	.2268	.2202	.4151	.1443
#1	.0255	806.1	1.553	4.187	.0432	1895.	.1311	.6261	2.418
#2	.0237	805.1	1.528	4.187	.0461	1888.	.1309	.6309	2.424
#3	.0316	804.9	1.546	4.250	.0450	1887.	.1305	.6268	2.424

Elem	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
IS Ref	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)
Avg	1.403	978.4	38.66	51.27	36.41	.4228	28.01	.7777	1.396
Stddev	.004	.9	.78	.39	.18	.0015	.16	.0046	.006
%RSD	.2794	.0963	2.011	.7567	.4925	.3458	.5851	.5868	.4250
#1	1.405	979.2	38.22	51.46	36.28	.4212	28.20	.7824	1.397
#2	1.406	977.4	39.56	50.82	36.62	.4232	27.92	.7773	1.390
#3	1.398	978.6	38.21	51.52	36.34	.4241	27.90	.7733	1.402

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	.1661	1.451	5.286	.3714	F49.92	26.70	1.437	.9612	15.13
Stddev	.0169	.017	.007	.0024	.11	.03	.009	.0024	.02
%RSD	10.16	1.159	.1279	.6376	.2188	.1203	.6297	.2534	.1513
#1	.1772	1.447	5.293	.3722	50.04	26.70	1.429	.9637	15.11
#2	.1743	1.437	5.280	.3687	49.88	26.67	1.447	.9588	15.12
#3	.1466	1.469	5.284	.3732	49.83	26.74	1.435	.9611	15.15

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	3277.2	8810.7	57149.	2358.4
Stddev	11.5	23.3	233.	3.4
%RSD	.35217	.26484	.40830	.14431
#1	3287.4	8826.6	57137.	2362.2
#2	3279.6	8821.6	56921.	2357.3
#3	3264.7	8783.9	57388.	2355.7

Zoom In Zoom Out

Sample Name: MP28745-S2 Acquired: 4/3/2015 12:40:02 Type: Unk
Method: 60102007_042011(v210) Mode: CONC Corr. Factor: 10.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)
Avg	.0330	1037.	1.683	5.135	.0499	2552.	.1583	.7231	3.024
Stddev	.0019	5.	.017	.007	.0008	13.	.0006	.0015	.009
%RSD	5.670	.4812	1.013	.1304	1.530	.4993	.3931	.2042	.2883
#1	.0339	1031.	1.702	5.138	.0507	2538.	.1576	.7248	3.019
#2	.0342	1040.	1.672	5.139	.0492	2560.	.1585	.7227	3.034
#3	.0309	1039.	1.674	5.127	.0499	2560.	.1588	.7219	3.020

Elem	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
IS Ref	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)
Avg	1.773	1087.	46.98	62.74	F45.68	.4632	31.99	.9125	1.407
Stddev	.004	5.	.56	.60	.94	.0021	.10	.0020	.014
%RSD	.2243	.4776	1.195	.9633	2.063	.4462	.3271	.2164	.9584
#1	1.778	1082.	47.32	62.36	45.50	.4608	32.01	.9126	1.421
#2	1.772	1092.	47.28	62.42	46.70	.4645	32.08	.9145	1.407
#3	1.770	1088.	46.33	63.44	44.84	.4642	31.88	.9105	1.394

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	.1972	1.549	6.275	.3854	F64.78	34.39	1.570	1.170	14.03
Stddev	.0149	.002	.006	.0051	.38	.09	.011	.002	.00
%RSD	7.579	.1417	.0959	1.328	.5820	.2751	.7231	.1897	.0281
#1	.1809	1.549	6.276	.3853	64.36	34.28	1.583	1.168	14.03
#2	.2103	1.546	6.280	.3906	65.10	34.46	1.561	1.172	14.02
#3	.2004	1.550	6.268	.3803	64.86	34.41	1.567	1.169	14.03

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	3210.3	9028.4	58728.	2424.3
Stddev	4.6	10.8	407.	24.8
%RSD	.14271	.11993	.69291	1.0221
#1	3205.1	9018.9	59132.	2447.7
#2	3212.2	9026.1	58318.	2398.3
#3	3213.7	9040.2	58734.	2426.9

Zoom In Zoom Out

Sample Name: CCV Acquired: 4/3/2015 12:44:43 Type: QC
Method: 60102007_042011(v210) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2433	39.90	1.971	1.993	1.968	39.37	1.986	1.983	1.987	1.995
Stddev	.0007	.44	.006	.017	.017	.30	.006	.006	.006	.003
%RSD	.2964	1.115	.3165	.8510	.8688	.7686	.2927	.3111	.3282	.1601
#1	.2426	40.30	1.966	2.010	1.987	39.71	1.985	1.980	1.979	1.992
#2	.2432	39.42	1.969	1.976	1.955	39.12	1.981	1.978	1.991	1.995
#3	.2441	39.97	1.978	1.992	1.961	39.28	1.992	1.990	1.991	1.998
Check ?	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass
Value										
Range										

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	39.96	40.67	39.21	2.016	1.980	40.63	1.978	1.932	1.978	1.977
Stddev	.17	.36	.55	.006	.007	.21	.008	.010	.006	.006
%RSD	.4181	.8759	1.403	.2971	.3478	.5178	.3822	.5204	.3187	.3296
#1	40.14	41.08	39.83	2.019	1.975	40.84	1.975	1.927	1.972	1.976
#2	39.82	40.41	38.78	2.019	1.978	40.42	1.973	1.926	1.979	1.972
#3	39.93	40.52	39.03	2.009	1.988	40.62	1.987	1.944	1.984	1.984
Check ?	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass
Value										
Range										

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.035	1.958	1.980	1.993	1.961	1.954	1.963
Stddev	.007	.006	.012	.001	.011	.005	.007
%RSD	.3416	.3343	.6189	.0473	.5344	.2756	.3389
#1	2.036	1.956	1.993	1.993	1.951	1.948	1.960
#2	2.027	1.952	1.968	1.994	1.961	1.958	1.958
#3	2.041	1.965	1.979	1.993	1.972	1.956	1.971
Check ?	None	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass
Value							
Range							

Zoom In
Zoom Out

Sample Name: CCV Acquired: 4/3/2015 12:44:43 Type: QC
Method: 60102007_042011(v210) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3179.1	7761.4	51119.	2082.8
Stddev	10.2	21.3	167.	32.6
%RSD	.32143	.27492	.32636	1.5674
#1	3181.6	7761.4	51226.	2050.8
#2	3187.9	7782.8	50927.	2081.6
#3	3167.9	7740.1	51204.	2116.0

Zoom In
Zoom Out

Sample Name: CCB Acquired: 4/3/2015 12:49:12 Type: QC
Method: 60102007_042011(v210) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0007	.0117	-.0005	.0004	-.0001	-.0020	.0000	.0000	.0004
Stddev	.0005	.0070	.0001	.0008	.0002	.0040	.0000	.0002	.0001
%RSD	65.39	59.82	24.38	202.0	220.1	205.9	223.8	390.4	24.21
#1	-.0010	.0052	-.0004	-.0002	-.0003	.0011	.0000	.0001	.0003
#2	-.0010	.0191	-.0006	.0013	-.0001	-.0005	.0000	.0002	.0005
#3	-.0002	.0109	-.0006	.0001	.0001	-.0065	.0000	-.0002	.0003
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0004	.0119	.1086	-.0114	.0000	F.0015	.0414	.0002	.0002
Stddev	.0002	.0019	.0545	.0261	.0000	.0002	.0255	.0001	.0010
%RSD	51.52	16.03	50.16	228.7	163.7	15.92	61.62	60.89	652.4
#1	.0002	.0126	.0626	-.0164	.0000	.0018	.0378	.0001	.0013
#2	.0006	.0133	.1688	.0169	.0001	.0014	.0685	.0002	-.0001
#3	.0004	.0097	.0944	-.0347	.0000	.0014	.0179	.0004	-.0007
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit						.0010			
Low Limit						-.0010			

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0005	.0007	.0011	-.0001	-.0001	.0012	-.0015	.0001	.0001
Stddev	.0011	.0007	.0008	.0002	.0002	.0002	.0005	.0005	.0000
%RSD	222.8	100.7	78.54	382.8	308.2	14.16	31.85	335.7	88.85
#1	-.0016	.0001	.0016	.0002	-.0001	.0011	-.0012	.0002	.0001
#2	-.0003	.0006	.0015	-.0002	.0001	.0010	-.0020	.0006	.0000
#3	.0005	.0014	.0001	-.0002	-.0002	.0013	-.0012	-.0004	.0000
Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Zoom In
Zoom Out

Sample Name: CCB Acquired: 4/3/2015 12:49:12 Type: QC
Method: 60102007_042011(v210) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3722.5	8176.9	54165.	2138.4
Stddev	11.1	26.7	176.	13.9
%RSD	.29788	.32646	.32509	.64881
#1	3732.8	8199.2	54057.	2130.8
#2	3724.1	8184.2	54071.	2154.4
#3	3710.8	8147.3	54369.	2130.0

Zoom In
Zoom Out

Sample Name: MP28745-PS1 Acquired: 4/3/2015 12:53:40 Type: Unk
Method: 60102007_042011(v210) Mode: CONC Corr. Factor: 10.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)
Avg	.0412	803.4	.2249	2.990	.0577	2149.	.1439	.3145	2.385
Stddev	.0015	2.2	.0082	.009	.0022	3.	.0007	.0009	.004
%RSD	3.727	.2748	3.625	.3119	3.882	.1176	.4921	.2816	.1829
#1	.0413	802.3	.2196	2.988	.0579	2146.	.1432	.3136	2.385
#2	.0396	801.8	.2209	2.982	.0598	2149.	.1440	.3144	2.381
#3	.0427	805.9	.2343	3.001	.0553	2151.	.1446	.3154	2.389

Elem	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
IS Ref	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)
Avg	1.312	864.7	32.16	40.14	35.67	.1984	19.69	.5156	1.105
Stddev	.004	1.6	.58	.05	.27	.0024	.16	.0029	.005
%RSD	.3141	.1862	1.814	.1305	.7498	1.201	.7977	.5627	.4337
#1	1.308	864.4	32.59	40.18	35.84	.1969	19.87	.5124	1.105
#2	1.310	863.3	32.40	40.08	35.81	.1972	19.60	.5165	1.110
#3	1.316	866.5	31.50	40.15	35.36	.2012	19.60	.5180	1.100

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	.1221	.1492	8.887	.0658	F50.64	28.23	.0733	.6736	11.95
Stddev	.0066	.0180	.015	.0017	.09	.15	.0118	.0065	.02
%RSD	5.430	12.08	.1734	2.541	.1739	.5229	16.13	.9647	.1443
#1	.1164	.1416	8.869	.0677	50.57	28.20	.0851	.6778	11.94
#2	.1294	.1363	8.894	.0646	50.62	28.39	.0614	.6661	11.94
#3	.1206	.1698	8.898	.0651	50.74	28.10	.0734	.6769	11.97

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	3284.5	8868.0	57462.	2379.5
Stddev	16.8	51.5	179.	9.7
%RSD	.51157	.58020	.31089	.40955
#1	3296.2	8888.5	57653.	2369.5
#2	3292.2	8906.0	57434.	2380.0
#3	3265.3	8809.4	57299.	2388.9

Zoom In Zoom Out

Sample Name: MP28745-SD1 Acquired: 4/3/2015 12:58:22 Type: Unk
Method: 60102007_042011(v210) Mode: CONC Corr. Factor: 50.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	-.0217	1026.	.1692	3.522	.0038	2728.	.1263	.3554	3.001	1.543
Stddev	.0131	7.	.0758	.051	.0181	18.	.0020	.0040	.026	.021
%RSD	60.22	.7062	44.78	1.448	470.7	.6512	1.592	1.114	.8789	1.340
#1	-.0347	1022.	.1371	3.547	.0221	2718.	.1277	.3517	3.031	1.541
#2	-.0220	1022.	.1148	3.463	-.0140	2717.	.1240	.3550	2.990	1.565
#3	-.0085	1035.	.2558	3.556	.0035	2748.	.1272	.3596	2.982	1.524

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	1121.	29.49	48.15	47.05	.1314	11.26	.5484	1.157	-.0066	.0314
Stddev	8.	.44	3.93	.12	.0079	.60	.0193	.018	.0727	.0819
%RSD	.6856	1.495	8.167	.2449	6.038	5.321	3.521	1.598	1109.	260.7
#1	1118.	28.99	50.86	47.19	.1326	10.56	.5371	1.171	.0732	-.0374
#2	1116.	29.69	43.64	46.98	.1229	11.59	.5374	1.163	-.0237	.1220
#3	1130.	29.80	49.94	46.99	.1386	11.61	.5707	1.136	-.0692	.0097

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	22.56	.0188	64.23	37.28	-.0641	.7948	15.20
Stddev	.23	.0077	.50	.19	.0238	.0153	.02
%RSD	1.022	41.01	.7707	.5206	37.19	1.927	.1046
#1	22.33	.0219	64.00	37.33	-.0898	.8020	15.20
#2	22.57	.0245	63.90	37.45	-.0600	.7772	15.19
#3	22.79	.0100	64.80	37.07	-.0426	.8053	15.22

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	3508.3	8280.2	54203.	2183.5
Stddev	9.6	33.0	414.	27.2
%RSD	.27410	.39799	.76339	1.2464
#1	3518.6	8302.7	54400.	2198.5
#2	3506.9	8295.5	54482.	2200.0
#3	3499.5	8242.4	53728.	2152.1

Zoom In Zoom Out

Sample Name: MP28752-MB1 Acquired: 4/3/2015 13:02:49 Type: QC
Method: 60102007_042011(v210) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0010	.0087	-.0007	.0001	.0000	.0281	.0000	.0000	.0009	.0005
Stddev	.0006	.0250	.0006	.0006	.000	.0066	.000	.0002	.0001	.0003
%RSD	62.26	286.2	83.58	621.6	89.61	23.68	134.3	1029.	12.54	55.02
#1	-.0004	-.0104	-.0006	-.0005	-.0001	.0266	.0000	-.0001	.0010	.0002
#2	-.0017	.0370	-.0012	.0002	.0000	.0353	.0000	.0002	.0008	.0008
#3	-.0009	-.0005	-.0002	.0006	.0000	.0223	-.0001	-.0001	.0009	.0006
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0270	.0713	.0301	.0002	.0000	.0369	.0003	-.0003	-.0016	.0036
Stddev	.0028	.1071	.0391	.0001	.0001	.0063	.0001	.0006	.0006	.0024
%RSD	10.53	150.2	129.8	43.13	1239.	17.05	43.60	191.2	40.99	66.73
#1	.0298	.1947	.0099	.0002	.0001	.0438	.0004	-.0006	-.0008	.0011
#2	.0241	.0161	.0053	.0001	-.0001	.0315	.0002	.0004	-.0020	.0059
#3	.0271	.0031	.0751	.0002	.0000	.0354	.0004	-.0007	-.0019	.0038
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0145	.0218	-.0001	.0014	-.0017	-.0001	.0005
Stddev	.0003	.0002	.0001	.0001	.0005	.0004	.0001
%RSD	1.947	.8396	112.7	4.565	31.47	622.0	12.71
#1	.0148	.0216	-.0001	.0014	-.0011	-.0005	.0005
#2	.0143	.0218	.0000	.0013	-.0019	-.0001	.0006
#3	.0143	.0220	-.0002	.0013	-.0021	.0004	.0006
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Zoom In Zoom Out

Sample Name: MP28752-MB1 Acquired: 4/3/2015 13:02:49 Type: QC
Method: 60102007_042011(v210) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3758.3	8305.2	56079.	2182.5
Stddev	3.9	13.9	450.	29.4
%RSD	.10495	.16707	.80292	1.3483
#1	3762.4	8321.1	55571.	2185.1
#2	3754.5	8295.5	56235.	2210.5
#3	3757.9	8298.9	56430.	2151.8

Zoom In Zoom Out

Sample Name: MP28752-B1 Acquired: 4/3/2015 13:07:18 Type: QC
Method: 60102007_042011(v210) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0473	27.70	2.012	2.074	.0514	25.44	.0503	.5081	.2101	.2619
Stddev	.0001	.02	.007	.008	.0004	.05	.0003	.0012	.0000	.0007
%RSD	.2169	.0867	.3516	.3698	.8605	.1918	.5171	.2414	.0232	.2649
#1	.0472	27.70	2.007	2.068	.0511	25.43	.0502	.5073	.2100	.2612
#2	.0472	27.69	2.008	2.071	.0512	25.39	.0501	.5074	.2101	.2618
#3	.0474	27.73	2.020	2.082	.0519	25.49	.0506	.5095	.2101	.2626
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value										
Range										

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	26.73	26.02	25.22	.5152	.5002	26.34	.5148	.4846	.4977	1.998
Stddev	.05	.05	.08	.0006	.0014	.11	.0010	.0014	.0015	.004
%RSD	.2018	.2053	.3038	.1162	.2815	.4245	.1887	.2891	.3015	.2011
#1	26.68	25.96	25.28	.5145	.5001	26.24	.5147	.4832	.4960	2.001
#2	26.73	26.04	25.13	.5156	.4988	26.31	.5139	.4847	.4981	1.993
#3	26.78	26.07	25.23	.5155	.5017	26.46	.5159	.4860	.4990	2.000
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value										
Range										

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0189	.5316	.5032	.5026	1.980	.4875	.5027
Stddev	.0003	.0010	.0014	.0007	.005	.0005	.0010
%RSD	1.416	.1913	.2812	.1408	.2590	.0925	.2046
#1	.0188	.5309	.5020	.5032	1.985	.4870	.5021
#2	.0187	.5311	.5029	.5018	1.975	.4877	.5020
#3	.0192	.5327	.5048	.5028	1.981	.4879	.5039
Check ?	None	Chk Pass	None	None	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Zoom In Zoom Out

Sample Name: MP28752-B1 Acquired: 4/3/2015 13:07:18 Type: QC
Method: 60102007_042011(v210) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3334.8	7938.7	52728.	2111.3
Stddev	4.0	11.7	220.	2.9
%RSD	.11889	.14784	.41777	.13547
#1	3337.8	7949.7	52980.	2113.5
#2	3330.3	7926.3	52574.	2112.4
#3	3336.3	7940.1	52630.	2108.1

Zoom In Zoom Out

Sample Name: FA23258-5 Acquired: 4/3/2015 13:11:43 Type: Unk
Method: 60102007_042011(v210) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)
Avg	.0002	94.54	.0223	1.129	.0034	F3000.	.0005	.0293	.0859
Stddev	.0014	.33	.0015	.003	.0002	77.	.0001	.0002	.0001
%RSD	645.8	.3455	6.621	.2868	5.846	2.578	23.84	.5960	.1067
#1	.0018	94.92	.0216	1.132	.0036	3027.	.0004	.0294	.0860
#2	-.0004	94.41	.0212	1.125	.0033	2912.	.0006	.0291	.0859
#3	-.0007	94.30	.0240	1.129	.0032	3060.	.0004	.0293	.0859

Elem	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
IS Ref	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)
Avg	.0568	77.43	29.41	114.3	1.747	.0132	25.85	.0652	.0682
Stddev	.0002	.32	.32	.2	.002	.0002	.04	.0003	.0006
%RSD	.2950	.4076	1.098	.1999	.0903	1.383	.1615	.4376	.8261
#1	.0567	77.72	29.32	114.4	1.745	.0134	25.84	.0655	.0688
#2	.0570	77.09	29.13	114.0	1.748	.0132	25.81	.0652	.0676
#3	.0566	77.49	29.76	114.5	1.747	.0131	25.89	.0650	.0682

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	.0225	.0036	2.555	.0194	F38.46	2.024	-.0001	.1659	.2127
Stddev	.0016	.0018	.004	.0004	1.24	.002	.0012	.0004	.0003
%RSD	7.104	50.16	.1741	2.293	3.229	.0725	1187.	.2248	.1290
#1	.0232	.0018	2.550	.0196	39.36	2.023	-.0012	.1656	.2127
#2	.0207	.0037	2.555	.0198	37.04	2.026	-.0003	.1659	.2129
#3	.0236	.0054	2.559	.0189	38.97	2.024	.0012	.1663	.2124

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	2689.5	7685.3	46777.	2014.4
Stddev	53.7	164.5	538.	24.1
%RSD	1.9949	2.1401	1.1502	1.1963
#1	2627.7	7495.6	46224.	2029.3
#2	2716.5	7788.0	47299.	2027.3
#3	2724.3	7772.2	46810.	1986.6

Zoom In Zoom Out

Sample Name: MP28752-D1 Acquired: 4/3/2015 13:16:23 Type: Unk
Method: 60102007_042011(v210) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)
Avg	-.0003	88.60	.0206	1.063	.0031	F2796.	.0005	.0275	.0819
Stddev	.0004	.15	.0010	.003	.0001	24.	.0001	.0002	.0005
%RSD	144.2	.1735	4.834	.2881	2.486	.8730	16.55	.7593	.6493
#1	.0000	88.46	.0208	1.062	.0031	2778.	.0005	.0276	.0813
#2	-.0007	88.76	.0195	1.066	.0031	2823.	.0004	.0272	.0824
#3	-.0001	88.59	.0215	1.060	.0030	2786.	.0004	.0275	.0820

Elem	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
IS Ref	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)
Avg	.0526	71.55	28.76	104.6	1.646	.0128	23.99	.0615	.0652
Stddev	.0004	.16	.16	.0	.005	.0003	.11	.0003	.0015
%RSD	.7312	.2270	.5608	.0376	.3117	2.563	.4637	.4717	2.298
#1	.0524	71.39	28.66	104.6	1.641	.0124	24.04	.0618	.0635
#2	.0524	71.71	28.67	104.6	1.650	.0127	23.86	.0613	.0657
#3	.0530	71.56	28.95	104.6	1.649	.0131	24.06	.0613	.0664

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	.0211	.0039	2.697	.0201	F36.25	1.985	-.0003	.1575	.2048
Stddev	.0014	.0007	.004	.0001	1.47	.003	.0032	.0004	.0028
%RSD	6.535	18.45	.1616	.6719	4.051	.1370	1115.	.2562	1.345
#1	.0217	.0034	2.694	.0201	36.57	1.983	.0004	.1570	.2023
#2	.0195	.0037	2.702	.0199	37.53	1.984	.0025	.1577	.2045
#3	.0220	.0047	2.696	.0201	34.64	1.988	-.0038	.1577	.2078

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	2774.4	7946.3	51933.	2126.5
Stddev	13.2	25.4	364.	21.0
%RSD	.47552	.31905	.70122	.98564
#1	2780.9	7960.4	52097.	2144.9
#2	2783.0	7961.4	52186.	2130.8
#3	2759.2	7917.0	51515.	2103.7

Zoom In Zoom Out

Sample Name: MP28752-SD1 Acquired: 4/3/2015 13:21:05 Type: Unk
Method: 60102007_042011(v210) Mode: CONC Corr. Factor: 5.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)
Avg	-.0003	99.09	.0181	1.226	.0032	F3605.	.0004	.0337	.0988
Stddev	.0009	.24	.0020	.005	.0003	23.	.0001	.0005	.0020
%RSD	276.1	.2427	11.14	.3925	10.18	.6441	26.07	1.631	2.011
#1	.0001	99.21	.0189	1.221	.0028	3621.	.0005	.0332	.1010
#2	-.0013	99.24	.0196	1.229	.0033	3616.	.0005	.0343	.0982
#3	.0003	98.81	.0158	1.229	.0034	3578.	.0003	.0337	.0972

Elem	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
IS Ref	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)
Avg	.0629	86.09	32.74	128.8	1.963	.0155	29.02	.0775	.0669
Stddev	.0011	.25	.23	.4	.004	.0009	.14	.0010	.0028
%RSD	1.783	.2852	.7104	.3044	.2210	5.951	.4752	1.256	4.223
#1	.0639	86.13	32.84	129.2	1.967	.0161	28.92	.0764	.0642
#2	.0631	86.32	32.91	128.9	1.965	.0145	29.18	.0782	.0667
#3	.0617	85.83	32.47	128.4	1.959	.0161	28.96	.0780	.0698

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	.0156	.0106	2.688	.0211	F42.64	2.223	-.0057	.1798	.2535
Stddev	.0005	.0078	.007	.0020	.27	.002	.0076	.0026	.0010
%RSD	3.083	73.73	.2589	9.575	.6385	.0798	133.0	1.435	.3994
#1	.0161	.0172	2.682	.0224	42.70	2.223	.0023	.1769	.2528
#2	.0155	.0020	2.695	.0188	42.88	2.225	-.0065	.1816	.2532
#3	.0151	.0125	2.686	.0221	42.35	2.222	-.0129	.1810	.2547

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	3422.4	8748.0	54925.	2185.8
Stddev	39.7	99.0	577.	18.1
%RSD	1.1611	1.1313	1.0504	.82581
#1	3407.3	8711.4	55576.	2173.7
#2	3392.3	8672.5	54477.	2206.6
#3	3467.4	8860.0	54722.	2177.2

Zoom In Zoom Out

Sample Name: MP28752-PS1 Acquired: 4/3/2015 13:25:38 Type: Unk
Method: 60102007_042011(v210) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)
Avg	.0527	93.55	.1424	1.388	.0471	F2920.	.0484	.0743	.1342
Stddev	.0013	.50	.0015	.010	.0005	52.	.0001	.0003	.0007
%RSD	2.479	.5361	1.058	.7311	1.118	1.763	.3000	.3534	.5239
#1	.0512	93.92	.1430	1.395	.0474	2933.	.0485	.0743	.1343
#2	.0530	92.98	.1407	1.376	.0465	2863.	.0482	.0741	.1334
#3	.0538	93.77	.1435	1.392	.0474	2964.	.0483	.0746	.1348

Elem	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
IS Ref	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)
Avg	.1527	78.58	43.49	114.1	1.778	.1053	36.31	.1587	.1292
Stddev	.0008	.34	.31	.7	.033	.0003	.38	.0008	.0025
%RSD	.5130	.4360	.7222	.6389	1.833	.2654	1.051	.5127	1.900
#1	.1536	78.82	43.85	114.5	1.742	.1051	36.61	.1597	.1318
#2	.1522	78.19	43.24	113.3	1.787	.1056	35.88	.1583	.1270
#3	.1523	78.73	43.39	114.5	1.805	.1051	36.44	.1582	.1288

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	.1263	.1246	2.552	.0660	F37.38	2.089	.1005	.2111	.4738
Stddev	.0007	.0013	.011	.0008	1.65	.004	.0053	.0019	.0055
%RSD	.5501	1.055	.4113	1.207	4.418	.1770	5.225	.8957	1.153
#1	.1271	.1261	2.543	.0668	39.03	2.086	.1064	.2103	.4801
#2	.1258	.1236	2.550	.0659	35.73	2.088	.0988	.2097	.4713
#3	.1260	.1241	2.564	.0652	37.38	2.093	.0963	.2133	.4700

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	2893.3	8327.8	51535.	2135.0
Stddev	94.9	265.1	1553.	32.8
%RSD	3.2813	3.1839	3.0130	1.5382
#1	2788.5	8043.1	53132.	2154.9
#2	2917.8	8372.6	51442.	2097.1
#3	2973.6	8567.7	50030.	2152.9

Zoom In Zoom Out

Sample Name: MP28752-S1 Acquired: 4/3/2015 13:30:27 Type: Unk
Method: 60102007_042011(v210) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)
Avg	.0489	126.6	2.292	3.085	.0449	F3058.	.0460	.4607	.2870
Stddev	.0013	.8	.022	.018	.0002	103.	.0002	.0015	.0017
%RSD	2.579	.6328	.9519	.5898	.3399	3.352	.3602	.3174	.5842
#1	.0495	126.5	2.289	3.069	.0448	2993.	.0459	.4606	.2869
#2	.0475	127.4	2.316	3.105	.0450	3176.	.0462	.4621	.2853
#3	.0498	125.8	2.273	3.081	.0451	3004.	.0459	.4592	.2887

Elem	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
IS Ref	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)
Avg	.2929	104.6	67.08	135.9	2.345	.4364	51.30	.5155	.6129
Stddev	.0008	.8	1.50	.8	.028	.0010	.33	.0026	.0050
%RSD	.2655	.7501	2.231	.5598	1.203	.2212	.6386	.5056	.8236
#1	.2935	103.7	65.38	135.0	2.349	.4365	50.97	.5160	.6152
#2	.2920	105.1	67.65	136.3	2.372	.4373	51.62	.5178	.6164
#3	.2933	105.1	68.20	136.4	2.315	.4354	51.30	.5127	.6071

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	.1497	2.473	3.057	.4733	F39.38	2.716	1.967	.6319	.7354
Stddev	.0006	.037	.008	.0020	.76	.002	.011	.0024	.0057
%RSD	.4252	1.499	.2574	.4205	1.940	.0764	.5396	.3803	.7803
#1	.1498	2.465	3.057	.4736	40.26	2.714	1.974	.6301	.7335
#2	.1503	2.513	3.065	.4750	38.95	2.716	1.973	.6311	.7419
#3	.1490	2.440	3.049	.4711	38.93	2.718	1.955	.6347	.7309

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	2869.8	8404.8	52691.	2071.5
Stddev	16.7	75.7	541.	39.2
%RSD	.58219	.90101	1.0269	1.8938
#1	2884.7	8483.8	52700.	2110.9
#2	2872.8	8397.8	53228.	2032.4
#3	2851.8	8332.9	52146.	2071.2

Zoom In Zoom Out

Sample Name: MP28752-S2 Acquired: 4/3/2015 13:35:17 Type: Unk
Method: 60102007_042011(v210) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)
Avg	.0534	130.0	2.357	3.173	.0456	F3214.	.0473	.4714	.2916
Stddev	.0006	.5	.054	.009	.0004	100.	.0006	.0011	.0007
%RSD	1.133	.4073	2.289	.2689	.7897	3.114	1.177	.2410	.2554
#1	.0527	130.5	2.326	3.181	.0460	3117.	.0470	.4716	.2915
#2	.0535	130.1	2.326	3.173	.0452	3317.	.0470	.4702	.2909
#3	.0539	129.4	2.419	3.164	.0456	3208.	.0480	.4725	.2924

Elem	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
IS Ref	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)
Avg	.3022	107.0	70.45	140.7	2.427	.4482	52.61	.5298	.6468
Stddev	.0011	.4	.62	.7	.012	.0007	.44	.0037	.0148
%RSD	.3512	.4150	.8761	.5227	.4763	.1647	.8347	.6966	2.296
#1	.3034	107.5	71.10	141.5	2.439	.4486	53.08	.5279	.6357
#2	.3013	106.8	69.87	140.5	2.425	.4474	52.56	.5275	.6410
#3	.3020	106.7	70.39	140.0	2.416	.4487	52.20	.5341	.6636

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	.1571	2.535	3.158	.4917	F42.70	2.785	2.060	.6536	.7645
Stddev	.0018	.075	.005	.0071	.86	.007	.021	.0027	.0195
%RSD	1.143	2.950	.1647	1.444	2.008	.2610	1.011	.4125	2.547
#1	.1581	2.486	3.159	.4873	42.72	2.783	2.050	.6528	.7520
#2	.1551	2.497	3.152	.4880	43.55	2.778	2.047	.6514	.7545
#3	.1583	2.621	3.162	.4999	41.83	2.793	2.084	.6566	.7869

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	2604.0	7713.9	46452.	1814.0
Stddev	72.7	184.1	260.	22.1
%RSD	2.7901	2.3872	.56007	1.2190
#1	2662.1	7847.5	46749.	1823.0
#2	2627.4	7790.3	46266.	1830.3
#3	2522.6	7503.8	46340.	1788.8

Zoom In Zoom Out

Sample Name: CCV Acquired: 4/3/2015 13:40:07 Type: QC
Method: 60102007_042011(v210) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2579	38.53	2.161	2.011	1.822	39.95	2.114	2.026	2.104
Stddev	.0010	.18	.006	.007	.009	.17	.004	.002	.004
%RSD	.3745	.4697	.2834	.3525	.4930	.4159	.2069	.1175	.1847
#1	.2589	38.51	2.167	2.006	1.816	39.90	2.117	2.028	2.107
#2	.2577	38.72	2.162	2.019	1.832	40.13	2.116	2.026	2.104
#3	.2570	38.36	2.155	2.008	1.817	39.81	2.109	2.024	2.100
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value									
Range									

Elem	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.046	40.73	F44.66	38.98	2.107	1.999	39.27	2.053	2.185
Stddev	.004	.02	.22	.24	.029	.002	.26	.002	.004
%RSD	.1905	.0584	.4819	.6218	1.370	.1069	.6530	.1035	.1893
#1	2.051	40.74	44.47	38.72	2.075	1.997	39.05	2.055	2.189
#2	2.043	40.75	44.89	39.20	2.131	2.001	39.55	2.052	2.185
#3	2.045	40.70	44.62	39.02	2.116	1.998	39.20	2.051	2.181
Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value			40.00						
Range			10.00%						

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.042	F2.234	2.092	2.125	1.985	2.048	2.105	2.054	2.194
Stddev	.001	.004	.005	.002	.009	.006	.006	.005	.003
%RSD	.0320	.1916	.2335	.1099	.4688	.3009	.2915	.2329	.1148
#1	2.042	2.236	2.098	2.128	1.980	2.055	2.112	2.059	2.196
#2	2.042	2.238	2.089	2.125	1.995	2.046	2.100	2.052	2.194
#3	2.041	2.230	2.090	2.123	1.978	2.043	2.103	2.050	2.191
Check ?	Chk Pass	Chk Fail	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value		2.000							
Range		10.00%							

Zoom In
Zoom Out

Sample Name: CCV Acquired: 4/3/2015 13:40:07 Type: QC
Method: 60102007_042011(v210) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3435.4	8551.6	53002.	1829.6
Stddev	2.4	11.8	120.	21.6
%RSD	.06896	.13776	.22598	1.1787
#1	3437.1	8558.0	52872.	1836.3
#2	3432.7	8538.0	53027.	1805.5
#3	3436.4	8558.7	53107.	1847.0

Zoom In
Zoom Out

Sample Name: CCB Acquired: 4/3/2015 13:44:36 Type: QC
Method: 60102007_042011(v210) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F.0011	.0125	-.0006	.0008	-.0001	.0059	.0000	.0001
Stddev	.0005	.0212	.0007	.0005	.0001	.0067	.000	.0000
%RSD	45.65	169.2	110.4	64.80	103.2	114.1	87.53	53.45
#1	.0017	.0335	-.0011	.0004	.0000	-.0017	-.0001	.0000
#2	.0009	-.0089	.0002	.0015	-.0003	.0081	.0000	.0001
#3	.0008	.0130	-.0010	.0006	-.0001	.0112	.0000	.0001
Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	.0010							
Low Limit	-.0010							

Elem	Cr2677	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0001	-.0005	.0065	.2346	-.0147	.0001	F.0019	.0327
Stddev	.0000	.0004	.0073	.0141	.0538	.0000	.0003	.0175
%RSD	45.02	74.57	113.6	6.013	367.3	41.32	15.64	53.52
#1	-.0001	-.0008	.0137	.2502	-.0483	.0001	.0023	.0511
#2	-.0001	-.0007	.0067	.2309	.0474	.0001	.0018	.0307
#3	-.0001	-.0001	-.0010	.2227	-.0431	.0001	.0017	.0162
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit							.0010	
Low Limit							-.0010	

Elem	Ni2316	Pb2203	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0002	.0003	.0010	.0004	-.0003	.0002	-.0002	.0010
Stddev	.0003	.0001	.0011	.0018	.0006	.0003	.0003	.0004
%RSD	191.5	34.65	110.0	431.5	230.5	178.7	135.7	38.69
#1	.0003	.0004	.0000	.0024	.0005	.0003	-.0003	.0011
#2	.0004	.0002	.0008	.0000	-.0005	.0003	-.0005	.0013
#3	-.0002	.0003	.0021	-.0012	-.0008	-.0002	.0001	.0006
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Zoom In
Zoom Out

Sample Name: CCB Acquired: 4/3/2015 13:44:36 Type: QC
Method: 60102007_042011(v210) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm
Avg	F-.0027	-.0003	.0001
Stddev	.0013	.0004	.0001
%RSD	50.22	113.5	39.50
#1	-.0019	-.0002	.0001
#2	-.0018	.0000	.0001
#3	-.0042	-.0008	.0002
Check ?	Chk Fail	Chk Pass	Chk Pass
High Limit	.0020		
Low Limit	-.0020		

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4051.8	9126.7	57304.	1975.4
Stddev	19.8	56.2	505.	30.7
%RSD	.48927	.61603	.88052	1.5564
#1	4072.6	9188.6	57850.	1998.5
#2	4033.1	9078.7	57206.	1940.5
#3	4049.7	9113.0	56855.	1987.1

Zoom In
Zoom Out

Sample Name: CCV Acquired: 4/3/2015 14:07:44 Type: QC
Method: 60102007_042011(v210) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2480	40.50	1.993	2.027	2.030	40.50	2.016	2.019	2.018	2.020
Stddev	.0008	.15	.006	.012	.003	.05	.003	.003	.002	.004
%RSD	.3249	.3816	.3006	.5725	.1697	.1267	.1701	.1641	.0960	.1909
#1	.2476	40.32	2.000	2.016	2.026	40.44	2.020	2.022	2.020	2.020
#2	.2475	40.59	1.991	2.039	2.033	40.54	2.015	2.017	2.016	2.017
#3	.2490	40.59	1.989	2.025	2.031	40.51	2.014	2.017	2.018	2.024
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value										
Range										

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	40.71	40.70	40.40	2.054	2.013	41.13	2.021	1.990	1.999	2.001
Stddev	.08	.11	.24	.044	.001	.11	.002	.002	.003	.004
%RSD	.2064	.2662	.6003	2.140	.0677	.2618	.0974	.1150	.1525	.2156
#1	40.61	40.61	40.45	2.098	2.013	41.00	2.023	1.987	2.003	2.003
#2	40.75	40.68	40.61	2.055	2.011	41.19	2.020	1.991	1.997	2.004
#3	40.76	40.82	40.13	2.010	2.014	41.19	2.019	1.991	1.997	1.996
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value										
Range										

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.061	2.003	2.023	2.039	2.014	1.993	2.017
Stddev	.004	.004	.009	.005	.005	.005	.002
%RSD	.1961	.2088	.4217	.2373	.2302	.2752	.1200
#1	2.065	2.008	2.019	2.044	2.012	1.997	2.019
#2	2.059	2.000	2.033	2.036	2.019	1.987	2.015
#3	2.058	2.001	2.018	2.037	2.010	1.996	2.015
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Zoom In
Zoom Out

Sample Name: CCV Acquired: 4/3/2015 14:07:44 Type: QC
Method: 60102007_042011(v210) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3501.3	8711.7	55152.	2021.3
Stddev	10.7	24.6	681.	10.4
%RSD	.30467	.28255	1.2356	.51658
#1	3512.7	8725.3	54411.	2032.9
#2	3499.6	8726.6	55294.	2018.0
#3	3491.6	8683.3	55751.	2012.8

Zoom In
Zoom Out

Sample Name: CCB Acquired: 4/3/2015 14:17:51 Type: QC
Method: 60102007_042011(v210) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0006	.0007	-.0004	-.0004	.0002	-.0147	.0001	.0001	-.0002
Stddev	.0009	.0349	.0005	.0004	.0002	.0052	.0000	.0001	.0002
%RSD	153.2	5147.	117.6	87.91	140.9	35.75	17.15	106.0	88.91
#1	-.0001	.0233	-.0007	-.0004	.0002	-.0130	.0001	.0002	-.0003
#2	.0016	.0181	-.0007	-.0009	-.0001	-.0105	.0000	.0000	.0000
#3	.0002	-.0395	.0001	-.0001	.0004	-.0206	.0001	.0001	-.0003
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0004	.0005	-.0639	-.0199	.0000	.0001	-.0053	.0000	F.0011
Stddev	.0002	.0043	.0127	.0147	.0000	.0002	.0118	.000	.0006
%RSD	52.43	788.9	19.82	73.74	74.97	169.3	223.3	1344.	57.88
#1	.0006	.0044	-.0772	-.0047	.0000	-.0001	.0061	-.0002	.0013
#2	.0003	.0013	-.0519	-.0210	.0001	.0002	-.0045	-.0002	.0004
#3	.0003	-.0040	-.0627	-.0341	.0000	.0003	-.0174	.0003	.0017
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit									.0010
Low Limit									-.0010

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F.0025	-.0001	-.0014	-.0004	-.0001	-.0001	-.0007	-.0005	.0002
Stddev	.0004	.0004	.0002	.0003	.0002	.0001	.0010	.0004	.0001
%RSD	15.84	472.4	13.82	77.13	405.7	127.0	146.1	80.37	22.24
#1	.0022	-.0005	-.0014	-.0004	.0002	.0000	-.0018	-.0005	.0002
#2	.0029	-.0002	-.0011	-.0001	-.0002	-.0001	.0000	-.0008	.0003
#3	.0022	.0004	-.0015	-.0007	-.0001	-.0002	-.0003	-.0001	.0003
Check ?	Chk Fail	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	.0020								
Low Limit	-.0020								

Zoom In
Zoom Out

Sample Name: CCB Acquired: 4/3/2015 14:17:51 Type: QC
Method: 60102007_042011(v210) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4083.2	9167.1	58122.	2087.1
Stddev	6.3	13.8	318.	.5
%RSD	.15413	.15060	.54658	.02499
#1	4081.4	9159.1	58487.	2087.3
#2	4078.0	9159.2	57967.	2087.5
#3	4090.2	9183.1	57911.	2086.5

Zoom In
Zoom Out

Sample Name: CCV Acquired: 4/3/2015 16:07:55 Type: QC
Method: 60102007_042011(v210) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2486	40.21	2.037	1.990	1.999	39.89	2.037	2.024	2.040	2.027
Stddev	.0015	.10	.004	.002	.002	.13	.002	.002	.003	.003
%RSD	.5844	.2446	.1879	.1075	.0989	.3244	.1155	.0727	.1332	.1517
#1	.2475	40.31	2.041	1.989	1.999	39.87	2.035	2.022	2.037	2.024
#2	.2480	40.19	2.037	1.988	2.002	39.77	2.039	2.024	2.041	2.029
#3	.2502	40.11	2.033	1.992	1.998	40.03	2.036	2.025	2.042	2.029
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value										
Range										

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	40.60	40.15	40.22	2.048	2.022	39.81	2.017	1.972	2.030	2.028
Stddev	.08	.05	.16	.008	.003	.21	.001	.001	.002	.000
%RSD	.2074	.1188	.3944	.3966	.1561	.5245	.0536	.0581	.0980	.0080
#1	40.69	40.09	40.40	2.047	2.019	39.86	2.016	1.972	2.031	2.028
#2	40.52	40.18	40.10	2.056	2.024	39.58	2.017	1.974	2.028	2.028
#3	40.58	40.17	40.16	2.040	2.024	39.99	2.018	1.971	2.032	2.028
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value										
Range										

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.080	2.012	1.994	2.065	1.988	1.999	2.020
Stddev	.002	.001	.003	.004	.007	.003	.002
%RSD	.1107	.0322	.1368	.1716	.3667	.1690	.0798
#1	2.079	2.012	1.992	2.064	1.992	1.996	2.019
#2	2.078	2.012	1.997	2.062	1.993	2.002	2.020
#3	2.082	2.013	1.992	2.069	1.980	1.997	2.022
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Zoom In Zoom Out

Sample Name: CCV Acquired: 4/3/2015 16:07:55 Type: QC
Method: 60102007_042011(v210) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2697.8	8066.9	53755.	2277.9
Stddev	2.3	11.5	220.	13.5
%RSD	.08554	.14307	.40973	.59208
#1	2697.6	8065.3	53978.	2271.9
#2	2695.5	8079.2	53538.	2293.3
#3	2700.1	8056.3	53749.	2268.4

Zoom In Zoom Out

Sample Name: CCB Acquired: 4/3/2015 16:14:10 Type: QC
Method: 60102007_042011(v210) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0007	-.0102	.0006	.0003	.0001	-.0120	.0001	.0001
Stddev	.0010	.0091	.0010	.0001	.0001	.0037	.0001	.0002
%RSD	143.8	88.93	158.6	46.49	114.3	30.68	50.45	206.2
#1	.0012	-.0067	-.0001	.0004	.0002	-.0077	.0002	.0004
#2	.0013	-.0206	.0018	.0004	.0002	-.0140	.0001	.0000
#3	-.0005	-.0034	.0002	.0002	.0000	-.0142	.0001	.0000
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Cr2677	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0003	.0009	.0057	-.2994	.0167	.0002	F.0012	-.0215
Stddev	.0002	.0001	.0032	.0538	.0292	.0000	.0002	.0169
%RSD	83.55	15.59	57.03	17.98	174.8	10.81	20.49	78.49
#1	.0001	.0009	.0090	-.2675	-.0018	.0002	.0012	-.0405
#2	.0002	.0010	.0025	-.2692	.0015	.0002	.0014	-.0156
#3	.0006	.0007	.0055	-.3615	.0503	.0002	.0010	-.0084
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit							.0010	
Low Limit							-.0010	

Elem	Ni2316	Pb2203	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0001	F-.0011	.0019	.0005	.0022	.0005	.0005	.0008
Stddev	.0001	.0003	.0009	.0022	.0013	.0001	.0001	.0001
%RSD	129.4	30.89	48.14	440.1	60.29	12.39	20.22	10.26
#1	.0000	-.0008	.0030	-.0007	.0034	.0006	.0005	.0009
#2	.0001	-.0015	.0013	.0030	.0008	.0005	.0006	.0007
#3	.0001	-.0011	.0015	-.0008	.0022	.0005	.0004	.0008
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass
High Limit		.0010						
Low Limit		-.0010						

Zoom In Zoom Out

Sample Name: CCB Acquired: 4/3/2015 16:14:10 Type: QC
Method: 60102007_042011(v210) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm
Avg	.0009	.0004	.0003
Stddev	.0018	.0004	.0000
%RSD	203.1	100.9	11.53
#1	-.0009	.0000	.0002
#2	.0008	.0004	.0002
#3	.0027	.0007	.0003
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3087.0	8363.2	55882.	2315.9
Stddev	9.9	22.6	102.	27.9
%RSD	.31980	.27064	.18207	1.2032
#1	3095.1	8382.0	55805.	2346.3
#2	3076.0	8338.1	55997.	2309.8
#3	3089.9	8369.4	55843.	2291.6

Zoom In Zoom Out

Sample Name: FA23258-1 Acquired: 4/3/2015 16:18:29 Type: Unk
Method: 60102007_042011(v210) Mode: CONC Corr. Factor: 10.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	.0089	60.77	.0298	.6643	.0010	3478.	-.0001	.0224	.0600	.0424
Stddev	.0054	.15	.0078	.0091	.0019	32.	.0003	.0012	.0011	.0052
%RSD	60.92	.2520	26.34	1.370	194.7	.9071	401.3	5.548	1.817	12.24
#1	.0150	60.87	.0375	.6613	-.0011	3494.	-.0002	.0224	.0591	.0476
#2	.0050	60.84	.0301	.6571	.0015	3498.	.0002	.0237	.0612	.0372
#3	.0066	60.59	.0218	.6745	.0024	3441.	-.0002	.0212	.0597	.0424

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	52.36	13.97	88.96	1.166	.0164	3.567	.0529	.0288	.0232	-.0138
Stddev	.16	.87	.54	.001	.0029	.139	.0020	.0146	.0203	.0092
%RSD	.2984	6.212	.6026	.1158	17.83	3.902	3.873	50.68	87.41	67.08
#1	52.25	14.17	88.69	1.166	.0197	3.425	.0529	.0359	.0314	-.0220
#2	52.28	13.02	89.58	1.167	.0151	3.572	.0549	.0120	.0382	-.0155
#3	52.54	14.73	88.62	1.164	.0143	3.703	.0508	.0385	.0001	-.0038

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	3.688	.0252	23.58	1.462	-.0103	.1125	.1505
Stddev	.007	.0013	.00	.005	.0095	.0024	.0006
%RSD	.1819	5.154	.0053	.3651	92.30	2.169	.3704
#1	3.681	.0239	23.58	1.468	-.0114	.1137	.1501
#2	3.690	.0264	23.58	1.458	-.0192	.1097	.1503
#3	3.694	.0252	23.58	1.459	-.0003	.1142	.1512

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	2672.0	7850.3	52263.	2203.5
Stddev	15.2	41.8	136.	30.3
%RSD	.56732	.53216	.25987	1.3752
#1	2682.5	7889.4	52117.	2238.5
#2	2678.8	7855.1	52386.	2185.8
#3	2654.6	7806.3	52286.	2186.2

Zoom In
Zoom Out

Sample Name: FA23258-3 Acquired: 4/3/2015 16:23:00 Type: Unk
Method: 60102007_042011(v210) Mode: CONC Corr. Factor: 10.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	.0144	35.17	.0132	.5021	-.0001	3922.	.0004	.0132	.0327	.0365
Stddev	.0009	.48	.0060	.0098	.0014	61.	.0004	.0005	.0041	.0046
%RSD	6.025	1.371	45.61	1.960	2061.	1.550	82.72	3.862	12.50	12.50
#1	.0137	35.09	.0084	.5081	.0016	3862.	.0008	.0134	.0364	.0349
#2	.0154	34.73	.0112	.4908	-.0009	3920.	.0005	.0136	.0334	.0417
#3	.0142	35.68	.0200	.5075	-.0009	3984.	.0000	.0126	.0283	.0330

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	27.90	8.970	68.52	.6084	.0128	34.32	.0314	.0145	.0176	.0081
Stddev	.41	1.183	.48	.0011	.0007	.39	.0016	.0035	.0064	.0109
%RSD	1.457	13.19	.7031	.1870	5.694	1.139	4.999	23.83	36.35	134.8
#1	27.58	10.28	68.11	.6074	.0127	33.94	.0309	.0175	.0240	.0171
#2	27.77	8.641	68.40	.6083	.0120	34.30	.0301	.0153	.0174	-.0040
#3	28.36	7.987	69.05	.6097	.0135	34.72	.0331	.0107	.0113	.0112

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	3.094	.0251	35.43	.8180	-.0039	.0781	.0903
Stddev	.011	.0071	.34	.0044	.0111	.0027	.0009
%RSD	.3554	28.28	.9678	.5335	285.9	3.472	1.028
#1	3.106	.0182	35.13	.8147	.0080	.0775	.0914
#2	3.084	.0248	35.34	.8229	-.0141	.0758	.0900
#3	3.091	.0324	35.80	.8164	-.0056	.0811	.0896

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	2617.3	7692.9	50310.	2113.2
Stddev	6.6	30.2	53.	39.1
%RSD	.25306	.39219	.10563	1.8506
#1	2609.9	7658.6	50249.	2146.9
#2	2619.1	7705.0	50333.	2122.5
#3	2622.8	7715.2	50348.	2070.3

Zoom In
Zoom Out

Sample Name: FA23258-7 Acquired: 4/3/2015 16:27:34 Type: Unk
Method: 60102007_042011(v210) Mode: CONC Corr. Factor: 10.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	.0156	61.21	.0201	.8601	-.0009	4453.	.0001	.0220	.0540	.0629
Stddev	.0060	.46	.0075	.0015	.0019	40.	.0006	.0018	.0006	.0045
%RSD	38.29	.7551	37.47	.1711	214.8	.9065	794.0	8.243	1.035	7.152
#1	.0089	61.35	.0198	.8617	-.0012	4407.	.0002	.0213	.0535	.0585
#2	.0172	60.69	.0127	.8596	.0012	4477.	.0005	.0206	.0539	.0675
#3	.0205	61.58	.0278	.8589	-.0026	4476.	-.0006	.0241	.0546	.0628

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	49.38	18.16	147.7	1.087	.0137	23.91	.0520	.0181	.0404	.0295
Stddev	.34	.33	.4	.003	.0008	.24	.0010	.0015	.0104	.0060
%RSD	.6856	1.811	.2517	.2375	6.028	1.003	1.831	8.279	25.79	20.31
#1	49.03	18.23	147.6	1.089	.0143	24.16	.0531	.0174	.0465	.0228
#2	49.43	17.80	147.5	1.085	.0140	23.68	.0514	.0198	.0284	.0343
#3	49.70	18.45	148.2	1.085	.0128	23.89	.0514	.0171	.0464	.0313

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	4.083	.0218	33.77	1.522	.0048	.1336	.1472
Stddev	.004	.0029	.08	.002	.0107	.0020	.0002
%RSD	.0966	13.22	.2280	.1078	223.0	1.470	.1202
#1	4.084	.0198	33.70	1.522	.0046	.1316	.1471
#2	4.086	.0251	33.76	1.524	-.0058	.1356	.1474
#3	4.078	.0205	33.85	1.521	.0156	.1337	.1471

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	2638.5	7797.7	50102.	2064.4
Stddev	13.0	40.7	244.	37.8
%RSD	.49351	.52171	.48729	1.8319
#1	2628.8	7786.0	49851.	2097.3
#2	2633.5	7764.2	50116.	2072.9
#3	2653.3	7843.0	50339.	2023.1

Zoom In
Zoom Out

Sample Name: FA23258-8 Acquired: 4/3/2015 16:32:09 Type: Unk
Method: 60102007_042011(v210) Mode: CONC Corr. Factor: 10.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	.0168	64.69	.0155	.9663	-.0002	3882.	.0005	.0212	.0618	.0599
Stddev	.0053	.53	.0062	.0135	.0006	5.	.0004	.0000	.0025	.0033
%RSD	31.50	.8186	39.97	1.400	341.4	.1165	85.21	.2184	4.060	5.537
#1	.0215	64.21	.0111	.9798	-.0004	3887.	.0001	.0212	.0591	.0574
#2	.0179	64.60	.0128	.9665	-.0006	3878.	.0010	.0212	.0641	.0636
#3	.0111	65.26	.0225	.9527	.0005	3881.	.0004	.0212	.0622	.0586

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	52.09	17.68	144.7	1.192	.0135	22.48	.0553	.0193	.0190	-.0160
Stddev	.28	.67	1.1	.004	.0020	.20	.0015	.0047	.0148	.0208
%RSD	.5365	3.781	.7422	.3716	14.65	.8961	2.785	24.17	77.62	129.8
#1	52.41	18.30	145.5	1.197	.0132	22.64	.0568	.0229	.0224	.0062
#2	51.87	16.97	143.4	1.192	.0157	22.56	.0553	.0209	.0029	-.0349
#3	52.00	17.77	145.0	1.188	.0117	22.26	.0537	.0140	.0319	-.0193

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	3.928	.0226	37.75	1.565	-.0094	.1320	.1563
Stddev	.011	.0021	.20	.005	.0154	.0048	.0004
%RSD	.2698	9.235	.5182	.3193	163.7	3.635	.2466
#1	3.928	.0247	37.92	1.570	-.0202	.1284	.1564
#2	3.917	.0205	37.53	1.560	.0082	.1301	.1566
#3	3.939	.0227	37.79	1.564	-.0162	.1374	.1559

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	2674.0	7905.3	50564.	2066.9
Stddev	7.6	23.1	185.	21.7
%RSD	.28551	.29263	.36567	1.0492
#1	2668.9	7884.8	50373.	2055.9
#2	2670.4	7900.6	50576.	2091.8
#3	2682.8	7930.4	50742.	2052.8

Zoom In
Zoom Out

Sample Name: FA23258-10 Acquired: 4/3/2015 16:36:45 Type: Unk
Method: 60102007_042011(v210) Mode: CONC Corr. Factor: 10.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	.0146	55.16	.0168	.7012	-.0004	3910.	.0001	.0212	.0550	.0558
Stddev	.0077	.29	.0033	.0054	.0005	91.	.0004	.0014	.0018	.0050
%RSD	52.29	.5329	19.76	.7644	125.8	2.331	350.8	6.805	3.202	9.010
#1	.0204	54.82	.0178	.7044	-.0009	3805.	.0002	.0196	.0547	.0601
#2	.0175	55.31	.0196	.7043	-.0002	3962.	.0005	.0216	.0569	.0503
#3	.0060	55.35	.0131	.6950	.0000	3963.	-.0003	.0223	.0534	.0571

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	49.17	14.37	96.43	1.219	.0101	11.01	.0491	.0282	.0393	-.0133
Stddev	.28	.54	.82	.003	.0017	.20	.0020	.0111	.0122	.0361
%RSD	.5715	3.751	.8500	.2082	16.49	1.777	4.044	39.50	31.08	272.0
#1	49.09	14.89	97.35	1.219	.0085	10.94	.0514	.0159	.0253	-.0344
#2	49.48	13.81	96.17	1.221	.0100	10.85	.0479	.0376	.0474	-.0339
#3	48.93	14.41	95.77	1.216	.0118	11.23	.0480	.0309	.0452	.0284

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	3.423	.0263	30.10	1.539	-.0052	.1142	.1542
Stddev	.028	.0036	.07	.003	.0099	.0056	.0011
%RSD	.8027	13.66	.2361	.1754	188.6	4.897	.7347
#1	3.450	.0222	30.18	1.537	.0061	.1170	.1553
#2	3.424	.0291	30.09	1.537	-.0096	.1179	.1542
#3	3.395	.0275	30.04	1.542	-.0121	.1078	.1530

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	2655.0	7823.7	50580.	2063.8
Stddev	12.2	31.3	245.	13.9
%RSD	.45943	.39958	.48373	.67369
#1	2658.1	7830.0	50350.	2079.9
#2	2641.5	7789.7	50554.	2055.3
#3	2665.2	7851.2	50837.	2056.3

Zoom In Zoom Out

Sample Name: FA23258-12 Acquired: 4/3/2015 16:41:18 Type: Unk
Method: 60102007_042011(v210) Mode: CONC Corr. Factor: 10.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	.0137	116.7	.0327	1.242	.0042	4431.	.0015	.0445	.1137	.0816
Stddev	.0037	.1	.0060	.004	.0013	82.	.0004	.0006	.0044	.0044
%RSD	27.04	.0466	18.38	.3450	31.84	1.855	29.01	1.295	3.909	5.443
#1	.0115	116.7	.0282	1.238	.0057	4352.	.0013	.0445	.1125	.0772
#2	.0116	116.7	.0395	1.243	.0037	4516.	.0011	.0439	.1186	.0815
#3	.0180	116.8	.0303	1.246	.0032	4423.	.0019	.0450	.1100	.0861

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	106.8	36.01	121.3	2.717	.0138	9.834	.1011	.0602	.0239	-.0049
Stddev	.4	.44	.7	.004	.0024	.201	.0015	.0233	.0141	.0007
%RSD	.3818	1.212	.5625	.1597	17.80	2.043	1.496	38.71	58.94	14.00
#1	106.4	35.68	121.4	2.715	.0119	10.03	.0995	.0834	.0083	-.0041
#2	106.8	36.51	120.6	2.714	.0129	9.632	.1025	.0604	.0356	-.0054
#3	107.3	35.85	122.0	2.722	.0165	9.836	.1012	.0368	.0277	-.0052

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	4.690	.0257	23.04	2.481	-.0013	.2123	.3219
Stddev	.012	.0038	.10	.007	.0157	.0031	.0010
%RSD	.2534	14.66	.4416	.2910	1190.	1.474	.3162
#1	4.677	.0277	22.92	2.482	-.0166	.2111	.3209
#2	4.695	.0214	23.07	2.474	.0148	.2099	.3218
#3	4.699	.0280	23.11	2.488	-.0021	.2158	.3229

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	2624.3	7858.7	51050.	2092.6
Stddev	20.4	48.9	205.	14.5
%RSD	.77761	.62220	.40067	.69355
#1	2644.0	7909.0	51220.	2099.6
#2	2603.3	7811.3	50823.	2075.9
#3	2625.7	7855.8	51107.	2102.3

Zoom In Zoom Out

Sample Name: FA23258-15 Acquired: 4/3/2015 16:45:55 Type: Unk
Method: 60102007_042011(v210) Mode: CONC Corr. Factor: 10.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	.0218	83.33	.0292	.9089	.0024	3250.	.0006	.0321	.0806	.0633
Stddev	.0080	.63	.0123	.0071	.0029	4.	.0008	.0005	.0037	.0030
%RSD	36.78	.7590	42.21	.7824	122.1	.1208	132.6	1.482	4.572	4.805
#1	.0175	84.04	.0292	.9087	.0051	3254.	.0011	.0316	.0777	.0600
#2	.0169	82.84	.0169	.9161	.0028	3246.	.0011	.0321	.0794	.0659
#3	.0311	83.11	.0416	.9019	-.0007	3249.	-.0003	.0326	.0848	.0641

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	77.79	28.27	69.14	1.981	.0075	22.20	.0757	.0336	.0113	-.0012
Stddev	.27	.31	.41	.002	.0029	.10	.0024	.0104	.0182	.0200
%RSD	.3431	1.080	.5872	.0944	38.79	.4298	3.151	30.83	160.2	1711.
#1	77.51	28.48	69.45	1.983	.0096	22.13	.0764	.0284	-.0011	-.0201
#2	77.83	28.40	68.68	1.979	.0087	22.17	.0776	.0268	.0322	.0197
#3	78.04	27.92	69.29	1.981	.0042	22.31	.0730	.0455	.0029	-.0031

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	4.108	.0202	15.63	1.907	-.0057	.1347	.2414
Stddev	.004	.0035	.04	.003	.0099	.0056	.0004
%RSD	.0885	17.39	.2706	.1332	173.9	4.187	.1560
#1	4.105	.0163	15.68	1.909	-.0123	.1338	.2417
#2	4.112	.0210	15.59	1.904	-.0104	.1408	.2410
#3	4.107	.0232	15.62	1.909	.0057	.1296	.2414

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	2697.8	7973.4	51021.	2075.9
Stddev	7.3	5.3	296.	17.8
%RSD	.26905	.06661	.58054	.85769
#1	2689.9	7967.6	51018.	2060.7
#2	2699.3	7974.3	50726.	2071.5
#3	2704.1	7978.1	51319.	2095.5

Zoom In Zoom Out

Sample Name: FA23258-17 Acquired: 4/3/2015 16:50:22 Type: Unk
Method: 60102007_042011(v210) Mode: CONC Corr. Factor: 10.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	.0119	93.86	.0248	.9320	.0021	3885.	.0003	.0340	.0901	.0713
Stddev	.0017	.50	.0035	.0024	.0017	46.	.0002	.0006	.0002	.0011
%RSD	14.61	.5345	14.17	.2527	82.99	1.195	70.95	1.672	.2581	1.544
#1	.0118	93.98	.0246	.9308	.0020	3841.	.0006	.0338	.0899	.0725
#2	.0138	93.31	.0214	.9305	.0004	3934.	.0002	.0346	.0903	.0703
#3	.0103	94.29	.0284	.9347	.0039	3881.	.0002	.0335	.0901	.0712

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	85.32	26.90	113.2	2.122	.0128	45.02	.0816	.0416	.0156	.0057
Stddev	.13	.86	.2	.007	.0045	.37	.0022	.0093	.0136	.0295
%RSD	.1488	3.180	.2197	.3311	35.39	.8305	2.666	22.40	87.02	515.1
#1	85.20	27.83	113.3	2.115	.0151	44.63	.0815	.0522	.0075	.0396
#2	85.45	26.72	113.4	2.122	.0076	45.37	.0839	.0379	.0081	-.0083
#3	85.32	26.15	112.9	2.129	.0157	45.06	.0795	.0347	.0312	-.0141

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	4.886	.0287	18.72	2.293	.0005	.1561	.2645
Stddev	.020	.0008	.02	.003	.0022	.0058	.0014
%RSD	.3994	2.630	.1169	.1168	430.2	3.723	.5358
#1	4.871	.0295	18.72	2.290	-.0011	.1557	.2634
#2	4.908	.0280	18.69	2.294	.0030	.1504	.2640
#3	4.878	.0287	18.73	2.295	-.0004	.1620	.2661

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	2759.0	8277.5	52636.	2161.0
Stddev	7.9	36.9	210.	5.7
%RSD	.28774	.44559	.39884	.26397
#1	2762.3	8288.7	52877.	2164.8
#2	2764.7	8307.5	52499.	2154.4
#3	2749.9	8236.3	52531.	2163.7

Zoom In Zoom Out

Sample Name: FA23258-19 Acquired: 4/3/2015 16:54:59 Type: Unk
Method: 60102007_042011(v210) Mode: CONC Corr. Factor: 10.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	.0184	67.19	.0176	.8289	.0006	3195.	.0002	.0235	.0619	.0583
Stddev	.0043	.30	.0046	.0079	.0025	10.	.0008	.0009	.0046	.0024
%RSD	23.51	.4413	26.19	.9546	413.3	.3226	407.9	3.739	7.410	4.098
#1	.0176	67.27	.0204	.8363	.0034	3203.	-.0004	.0231	.0669	.0610
#2	.0231	67.45	.0123	.8299	-.0004	3197.	.0011	.0229	.0610	.0570
#3	.0146	66.87	.0201	.8205	-.0012	3183.	.0000	.0245	.0578	.0567

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	57.69	14.70	115.8	1.336	.0107	4.528	.0540	.0320	.0167	-.0170
Stddev	.19	.63	.2	.004	.0007	.133	.0014	.0083	.0175	.0102
%RSD	.3241	4.271	.1625	.2863	6.367	2.933	2.556	25.95	104.6	60.25
#1	57.68	14.32	115.8	1.340	.0113	4.382	.0552	.0393	.0343	-.0067
#2	57.88	14.36	116.0	1.336	.0099	4.642	.0542	.0336	-.0006	-.0172
#3	57.51	15.43	115.7	1.333	.0109	4.560	.0525	.0230	.0164	-.0271

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	3.918	.0234	30.85	1.733	-.0063	.1279	.1817
Stddev	.011	.0002	.08	.002	.0065	.0017	.0004
%RSD	.2881	.9358	.2754	.0943	102.3	1.316	.2221
#1	3.917	.0235	30.95	1.732	.0000	.1271	.1813
#2	3.908	.0235	30.79	1.733	-.0061	.1298	.1818
#3	3.930	.0231	30.81	1.735	-.0129	.1267	.1821

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	2696.4	7962.8	50802.	2052.0
Stddev	13.7	42.6	362.	12.2
%RSD	.50805	.53527	.71259	.59384
#1	2682.2	7916.3	50393.	2042.8
#2	2697.4	7972.0	51083.	2047.4
#3	2709.5	8000.0	50930.	2065.8

Zoom In Zoom Out

Sample Name: FA23258-21 Acquired: 4/3/2015 16:59:27 Type: Unk
Method: 60102007_042011(v210) Mode: CONC Corr. Factor: 10.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	.0229	111.2	.0276	1.119	.0018	3877.	.0011	.0384	.1046	.0794
Stddev	.0023	.2	.0062	.006	.0005	27.	.0003	.0013	.0028	.0032
%RSD	10.08	.1658	22.51	.5680	27.83	.7017	25.08	3.266	2.648	3.985
#1	.0246	111.4	.0342	1.123	.0020	3849.	.0014	.0396	.1055	.0805
#2	.0202	111.1	.0218	1.112	.0012	3879.	.0009	.0371	.1068	.0818
#3	.0238	111.1	.0268	1.123	.0021	3903.	.0010	.0385	.1015	.0758

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	96.84	29.82	126.7	2.489	.0113	5.419	.0858	.0519	.0231	-.0272
Stddev	.38	.09	.7	.005	.0022	.194	.0016	.0042	.0151	.0191
%RSD	.3917	.2985	.5564	.2210	19.37	3.573	1.816	8.110	65.37	70.04
#1	96.98	29.72	127.4	2.491	.0110	5.641	.0852	.0568	.0251	-.0300
#2	96.41	29.87	126.0	2.483	.0092	5.328	.0846	.0493	.0371	-.0069
#3	97.12	29.88	126.7	2.494	.0136	5.287	.0875	.0498	.0071	-.0447

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	4.726	.0223	18.23	2.329	-.0102	.1776	.3161
Stddev	.001	.0011	.05	.010	.0033	.0035	.0007
%RSD	.0302	5.020	.2960	.4260	32.74	1.987	.2368
#1	4.728	.0219	18.25	2.339	-.0121	.1754	.3154
#2	4.725	.0216	18.17	2.319	-.0122	.1757	.3169
#3	4.727	.0236	18.28	2.327	-.0064	.1816	.3161

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	2653.0	7948.4	50943.	2070.0
Stddev	12.1	33.6	128.	17.7
%RSD	.45778	.42260	.25117	.85558
#1	2652.6	7958.4	50921.	2090.2
#2	2665.3	7975.8	50827.	2057.1
#3	2641.1	7910.9	51080.	2062.7

Zoom In Zoom Out

Sample Name: CCV Acquired: 4/3/2015 17:03:58 Type: QC
Method: 60102007_042011(v210) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2593	41.05	2.125	2.010	1.985	40.74	2.143	2.087	2.171	2.076
Stddev	.0004	.24	.005	.014	.012	.28	.002	.001	.003	.001
%RSD	.1534	.5771	.2462	.6877	.5918	.6972	.0897	.0592	.1353	.0562
#1	.2595	40.92	2.123	2.002	1.980	40.54	2.144	2.088	2.167	2.075
#2	.2596	40.91	2.121	2.002	1.977	40.62	2.141	2.086	2.173	2.074
#3	.2588	41.33	2.131	2.026	1.999	41.07	2.144	2.085	2.172	2.077
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value										
Range										

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	41.54	42.03	41.72	2.129	2.054	40.36	2.077	2.092	2.069	2.131
Stddev	.26	.24	.31	.035	.003	.31	.003	.010	.007	.004
%RSD	.6180	.5705	.7440	1.629	.1204	.7734	.1549	.4575	.3547	.1929
#1	41.48	41.82	41.55	2.150	2.052	40.09	2.079	2.099	2.071	2.126
#2	41.32	41.98	41.52	2.148	2.053	40.28	2.078	2.095	2.061	2.133
#3	41.82	42.29	42.07	2.089	2.056	40.70	2.073	2.081	2.075	2.134
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value										
Range										

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.121	2.118	2.022	2.140	2.043	2.093	2.170
Stddev	.004	.002	.013	.001	.007	.001	.004
%RSD	.2072	.0697	.6274	.0599	.3584	.0433	.1721
#1	2.123	2.119	2.020	2.138	2.049	2.092	2.173
#2	2.116	2.118	2.010	2.141	2.044	2.094	2.171
#3	2.124	2.116	2.035	2.141	2.035	2.094	2.166
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Zoom In Zoom Out

Sample Name: CCV Acquired: 4/3/2015 17:03:58 Type: QC
Method: 60102007_042011(v210) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2627.5	7808.7	50155.	1982.4
Stddev	17.4	31.3	81.	27.8
%RSD	.66102	.40038	.16197	1.4035
#1	2611.9	7778.4	50166.	2011.7
#2	2624.2	7806.8	50231.	1979.1
#3	2646.2	7840.8	50069.	1956.3

Zoom In Zoom Out

Sample Name: CCB Acquired: 4/3/2015 17:08:28 Type: QC
Method: 60102007_042011(v210) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F.0032	.0112	.0011	.0003	.0001	-.0100	.0001	.0003	-.0001
Stddev	.0012	.0160	.0002	.0007	.0000	.0051	.0001	.0002	.0003
%RSD	37.18	142.9	15.26	258.1	30.09	51.26	72.79	62.44	513.2
#1	.0027	.0087	.0011	-.0005	.0001	-.0041	.0002	.0001	-.0004
#2	.0024	-.0034	.0012	.0006	.0001	-.0122	.0001	.0005	.0001
#3	.0046	.0282	.0009	.0007	.0001	-.0136	.0000	.0002	.0001
Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	.0010								
Low Limit	-.0010								

Elem	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0005	.0180	-.4365	.0184	.0002	F.0023	-.0675	.0005	-.0007
Stddev	.0001	.0047	.0804	.0246	.0000	.0006	.0240	.0001	.0011
%RSD	28.46	26.16	18.42	133.7	30.69	25.10	35.57	22.47	158.9
#1	.0006	.0217	-.4004	.0405	.0001	.0029	-.0398	.0004	-.0001
#2	.0003	.0197	-.3805	.0229	.0002	.0023	-.0808	.0005	-.0019
#3	.0005	.0127	-.5287	-.0081	.0002	.0018	-.0818	.0006	.0000
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit						.0010			
Low Limit						-.0010			

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0018	-.0014	.0009	.0007	.0000	.0011	.0003	-.0001	.0003
Stddev	.0008	.0004	.0008	.0002	.0002	.0001	.0007	.0001	.0001
%RSD	44.08	26.55	86.40	26.59	585.9	10.50	246.9	167.1	36.56
#1	.0013	-.0017	.0000	.0005	.0003	.0011	.0010	.0000	.0002
#2	.0013	-.0015	.0012	.0008	.0000	.0010	.0000	.0000	.0004
#3	.0026	-.0010	.0015	.0008	-.0002	.0013	-.0002	-.0002	.0002
Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Zoom In
Zoom Out

Sample Name: CCB Acquired: 4/3/2015 17:08:28 Type: QC
Method: 60102007_042011(v210) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3033.5	8312.6	53097.	2088.0
Stddev	2.8	13.7	279.	3.3
%RSD	.09223	.16504	.52609	.15862
#1	3035.8	8299.6	53262.	2091.1
#2	3030.4	8311.2	52774.	2084.5
#3	3034.3	8327.0	53253.	2088.4

Zoom In
Zoom Out

Sample Name: FA23258-22 Acquired: 4/3/2015 17:12:56 Type: Unk
Method: 60102007_042011(v210) Mode: CONC Corr. Factor: 10.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	.0239	112.3	.0210	1.386	.0018	3733.	-.0005	.0363	.1077	.0817
Stddev	.0051	.9	.0065	.010	.0004	73.	.0001	.0004	.0037	.0012
%RSD	21.43	.8192	31.06	.7474	21.79	1.968	23.81	1.216	3.480	1.476
#1	.0279	111.6	.0284	1.378	.0022	3648.	-.0004	.0358	.1074	.0829
#2	.0181	112.0	.0182	1.383	.0016	3775.	-.0005	.0363	.1116	.0818
#3	.0255	113.4	.0163	1.398	.0015	3776.	-.0006	.0367	.1041	.0805

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	93.17	26.00	261.8	2.112	.0212	22.36	.0840	.0518	.0116	-.0310
Stddev	1.17	.42	4.0	.010	.0016	.13	.0002	.0137	.0240	.0216
%RSD	1.253	1.603	1.546	.4571	7.376	.6021	.2740	26.54	206.7	69.86
#1	91.84	25.55	257.2	2.101	.0230	22.27	.0838	.0674	-.0160	-.0115
#2	93.71	26.06	263.9	2.116	.0205	22.51	.0839	.0461	.0235	-.0271
#3	93.98	26.38	264.4	2.119	.0201	22.29	.0843	.0418	.0273	-.0543

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	4.477	.0276	36.42	2.688	-.0160	.1910	.2938
Stddev	.004	.0055	.34	.017	.0172	.0084	.0008
%RSD	.0954	20.05	.9219	.6250	107.1	4.407	.2677
#1	4.474	.0238	36.03	2.670	-.0151	.1842	.2944
#2	4.476	.0339	36.61	2.690	.0006	.2004	.2929
#3	4.482	.0251	36.62	2.703	-.0337	.1884	.2940

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	2654.3	7975.6	51033.	2100.4
Stddev	17.1	28.8	202.	21.7
%RSD	.64448	.36153	.39599	1.0341
#1	2642.3	7963.5	51252.	2120.3
#2	2646.7	7954.8	50994.	2103.8
#3	2673.9	8008.5	50853.	2077.2

Zoom In
Zoom Out

Sample Name: FA23258-23 Acquired: 4/3/2015 17:17:30 Type: Unk
Method: 60102007_042011(v210) Mode: CONC Corr. Factor: 10.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	.0228	126.3	.0350	1.321	.0033	4263.	.0004	.0480	.1274	.0893
Stddev	.0011	1.0	.0046	.009	.0017	19.	.0005	.0015	.0046	.0026
%RSD	4.643	.7916	13.07	.6707	50.06	.4430	106.4	3.178	3.646	2.944
#1	.0221	126.9	.0377	1.327	.0024	4268.	.0010	.0493	.1258	.0917
#2	.0240	126.8	.0376	1.325	.0053	4242.	.0004	.0483	.1326	.0865
#3	.0222	125.1	.0297	1.311	.0023	4279.	.0000	.0463	.1238	.0896

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	119.9	41.82	108.5	3.140	.0142	31.42	.1160	.0615	.0229	.0019
Stddev	.1	.17	.4	.011	.0007	.17	.0006	.0051	.0119	.0145
%RSD	.0687	.3958	.3566	.3417	5.220	.5522	.5516	8.264	51.84	760.2
#1	119.8	41.98	108.8	3.152	.0139	31.57	.1154	.0557	.0336	-.0142
#2	119.9	41.83	108.1	3.131	.0138	31.48	.1167	.0634	.0250	.0061
#3	119.8	41.65	108.6	3.136	.0151	31.23	.1159	.0653	.0101	.0139

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	4.290	.0286	20.60	2.617	-.0100	.2060	.3705
Stddev	.009	.0035	.07	.005	.0149	.0048	.0006
%RSD	.2021	12.21	.3599	.2114	147.9	2.341	.1728
#1	4.285	.0325	20.63	2.623	.0027	.2098	.3707
#2	4.300	.0275	20.65	2.615	-.0264	.2006	.3709
#3	4.286	.0258	20.51	2.613	-.0064	.2076	.3697

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	2672.5	8018.4	50933.	2081.6
Stddev	16.1	56.7	321.	19.7
%RSD	.60228	.70715	.62974	.94417
#1	2671.8	8041.9	50871.	2088.5
#2	2656.7	7953.7	50647.	2096.9
#3	2688.9	8059.5	51280.	2059.5

Zoom In
Zoom Out

Sample Name: FA23258-25 Acquired: 4/3/2015 17:22:04 Type: Unk
Method: 60102007_042011(v210) Mode: CONC Corr. Factor: 10.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)
Avg	.0262	120.2	.0303	1.351	.0040	4239.	.0000	.0405	.1157
Stddev	.0068	.8	.0031	.012	.0011	30.	.001	.0012	.0042
%RSD	26.06	.6708	10.34	.8532	26.71	.7019	1945.	2.895	3.627
#1	.0209	119.5	.0267	1.340	.0033	4253.	.0002	.0395	.1157
#2	.0339	121.1	.0318	1.363	.0053	4259.	.0006	.0418	.1199
#3	.0238	120.0	.0324	1.351	.0035	4205.	-.0009	.0403	.1116

Elem	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
IS Ref	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)
Avg	.0824	101.1	32.51	225.4	2.479	.0263	62.27	.0960	.0659
Stddev	.0024	.7	.85	1.1	.001	.0013	.59	.0023	.0063
%RSD	2.875	.7030	2.620	.5067	.0341	4.894	.9404	2.401	9.577
#1	.0806	100.3	31.91	224.1	2.480	.0251	61.67	.0935	.0620
#2	.0815	101.5	33.49	226.0	2.478	.0277	62.30	.0979	.0625
#3	.0851	101.5	32.14	226.2	2.479	.0262	62.84	.0967	.0732

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	.0227	-.0100	4.405	.0286	F50.20	2.712	-.0101	.2026	.3131
Stddev	.0101	.0200	.019	.0008	.34	.004	.0077	.0025	.0006
%RSD	44.41	199.5	.4223	2.796	.6736	.1321	76.52	1.243	.1944
#1	.0136	-.0270	4.422	.0291	49.81	2.716	-.0051	.2025	.3131
#2	.0336	-.0152	4.385	.0277	50.39	2.709	-.0189	.2002	.3125
#3	.0211	.0121	4.406	.0289	50.40	2.710	-.0061	.2052	.3137

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	2689.4	8105.8	50867.	2069.0
Stddev	.6	6.6	264.	13.1
%RSD	.02347	.08160	.51907	.63479
#1	2688.7	8111.4	50613.	2081.7
#2	2689.8	8098.5	51140.	2069.9
#3	2689.6	8107.5	50847.	2055.4

Zoom In Zoom Out

Sample Name: FA23258-27 Acquired: 4/3/2015 17:26:38 Type: Unk
Method: 60102007_042011(v210) Mode: CONC Corr. Factor: 10.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	.0278	102.6	.0286	1.022	.0017	4207.	-.0007	.0362	.0992	.0677
Stddev	.0039	.7	.0129	.001	.0022	49.	.0003	.0017	.0054	.0028
%RSD	14.10	.6765	45.19	.1102	130.2	1.176	45.76	4.621	5.464	4.091
#1	.0261	103.3	.0397	1.022	.0028	4173.	-.0004	.0347	.0938	.0648
#2	.0251	102.3	.0144	1.023	-.0009	4264.	-.0010	.0358	.1046	.0703
#3	.0323	102.0	.0317	1.021	.0032	4185.	-.0006	.0380	.0993	.0679

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	88.29	27.46	153.6	2.078	.0176	23.46	.0879	.0347	.0226	.0069
Stddev	.18	1.07	.5	.003	.0025	.10	.0012	.0100	.0036	.0163
%RSD	.2046	3.906	.3555	.1455	14.00	.4288	1.394	28.81	16.13	236.2
#1	88.35	26.22	153.3	2.080	.0155	23.35	.0869	.0232	.0203	.0256
#2	88.09	28.15	153.4	2.075	.0170	23.46	.0892	.0413	.0268	-.0010
#3	88.44	28.00	154.3	2.080	.0203	23.55	.0875	.0397	.0206	-.0039

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	4.632	.0449	30.86	2.598	-.0221	.1808	.2572
Stddev	.011	.0013	.14	.005	.0069	.0036	.0004
%RSD	.2458	2.937	.4647	.1951	31.00	2.014	.1513
#1	4.631	.0464	30.97	2.603	-.0223	.1771	.2568
#2	4.644	.0442	30.70	2.594	-.0152	.1810	.2572
#3	4.622	.0440	30.92	2.596	-.0289	.1843	.2576

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	2680.8	8034.2	50544.	2083.4
Stddev	8.9	27.5	337.	31.2
%RSD	.33157	.34197	.66681	1.4994
#1	2691.0	8062.6	50901.	2065.3
#2	2674.5	8007.7	50498.	2119.5
#3	2676.9	8032.3	50232.	2065.5

Zoom In Zoom Out

Sample Name: FA23258-29 Acquired: 4/3/2015 17:31:13 Type: Unk
Method: 60102007_042011(v210) Mode: CONC Corr. Factor: 10.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	.0277	150.4	.0524	1.609	.0035	4787.	.0005	.0549	.1486	.1046
Stddev	.0077	1.0	.0169	.004	.0028	72.	.0006	.0017	.0029	.0049
%RSD	27.79	.6915	32.30	.2567	80.65	1.500	108.8	3.110	1.976	4.657
#1	.0352	149.4	.0553	1.613	.0017	4766.	.0005	.0535	.1452	.1077
#2	.0198	151.5	.0677	1.605	.0020	4728.	.0011	.0544	.1502	.1071
#3	.0279	150.3	.0342	1.608	.0067	4867.	.0000	.0568	.1503	.0990

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	134.8	46.52	171.9	3.184	.0174	35.73	.1252	.0716	.0288	-.0318
Stddev	.7	1.00	.4	.001	.0021	.22	.0016	.0102	.0395	.0160
%RSD	.5453	2.155	.2107	.0211	12.01	.6066	1.252	14.19	137.3	50.31
#1	133.9	46.46	171.6	3.183	.0155	35.56	.1270	.0673	.0639	-.0152
#2	135.2	47.55	172.3	3.184	.0196	35.65	.1244	.0832	-.0140	-.0471
#3	135.2	45.55	171.8	3.185	.0170	35.97	.1241	.0643	.0365	-.0332

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	5.184	.0300	32.57	3.485	-.0148	.2892	.4134
Stddev	.003	.0016	.12	.003	.0054	.0032	.0022
%RSD	.0549	5.396	.3785	.0747	36.44	1.120	.5317
#1	5.181	.0312	32.45	3.486	-.0192	.2899	.4111
#2	5.186	.0282	32.70	3.487	-.0088	.2856	.4136
#3	5.183	.0307	32.55	3.483	-.0166	.2920	.4154

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	2658.1	8043.5	50612.	2032.5
Stddev	4.5	10.6	154.	7.2
%RSD	.16951	.13129	.30504	.35341
#1	2662.8	8047.4	50497.	2040.1
#2	2653.8	8031.5	50551.	2025.8
#3	2657.9	8051.5	50787.	2031.5

Zoom In Zoom Out

Sample Name: FA23258-31 Acquired: 4/3/2015 17:35:47 Type: Unk
Method: 60102007_042011(v210) Mode: CONC Corr. Factor: 10.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	.0293	111.3	.0409	1.232	.0024	4065.	.0009	.0373	.1139	.0723
Stddev	.0021	.5	.0025	.011	.0017	113.	.0003	.0009	.0031	.0039
%RSD	7.320	.4441	6.231	.8906	70.87	2.791	29.31	2.298	2.716	5.333
#1	.0298	110.8	.0384	1.219	.0043	4097.	.0008	.0373	.1138	.0737
#2	.0312	111.5	.0408	1.237	.0021	3939.	.0007	.0382	.1171	.0753
#3	.0270	111.7	.0435	1.239	.0009	4159.	.0012	.0365	.1109	.0680

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	95.84	31.21	124.8	2.354	.0167	46.81	.0921	.0621	.0292	-.0056
Stddev	.90	.38	.6	.005	.0007	.32	.0018	.0021	.0084	.0255
%RSD	.9438	1.209	.4604	.2221	4.306	.6807	1.957	3.433	28.91	452.9
#1	94.82	31.62	124.1	2.360	.0165	46.45	.0903	.0629	.0266	-.0316
#2	96.16	30.88	124.9	2.352	.0175	46.99	.0939	.0597	.0223	.0194
#3	96.55	31.14	125.2	2.351	.0161	47.00	.0921	.0637	.0386	-.0047

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	4.629	.0265	27.94	2.475	-.0077	.1883	.3181
Stddev	.007	.0013	.25	.005	.0146	.0061	.0016
%RSD	.1592	4.822	.8853	.2133	188.6	3.219	.5045
#1	4.622	.0278	27.65	2.477	-.0092	.1849	.3168
#2	4.637	.0253	28.08	2.478	.0075	.1953	.3177
#3	4.629	.0263	28.08	2.469	-.0216	.1846	.3199

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	2805.6	8448.4	52201.	2088.5
Stddev	3.0	12.1	169.	.2
%RSD	.10858	.14274	.32417	.01193
#1	2802.7	8438.4	52108.	2088.4
#2	2808.8	8445.0	52099.	2088.3
#3	2805.2	8461.8	52397.	2088.8

Zoom In Zoom Out

Sample Name: FA23258-33 Acquired: 4/3/2015 17:40:21 Type: Unk
Method: 60102007_042011(v210) Mode: CONC Corr. Factor: 10.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	.0269	27.81	.0088	.3738	-.0002	4030.	-.0005	.0116	.0307	.0319
Stddev	.0134	.42	.0057	.0039	.0006	20.	.0003	.0010	.0036	.0019
%RSD	49.98	1.523	64.72	1.054	252.2	.4871	55.24	8.843	11.65	6.020
#1	.0364	27.39	.0060	.3717	-.0003	4013.	-.0003	.0112	.0331	.0335
#2	.0115	27.80	.0050	.3713	-.0008	4052.	-.0004	.0107	.0326	.0326
#3	.0327	28.24	.0154	.3783	.0004	4027.	-.0008	.0127	.0266	.0298

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	23.15	5.253	68.43	.5990	.0112	42.82	.0282	.0107	.0145	-.0194
Stddev	.17	1.131	.93	.0022	.0011	.50	.0036	.0116	.0218	.0103
%RSD	.7219	21.53	1.364	.3704	10.12	1.161	12.70	108.6	151.2	52.89
#1	22.96	4.350	67.57	.5972	.0124	42.25	.0318	.0223	.0349	-.0276
#2	23.21	6.522	68.29	.5984	.0112	43.07	.0281	-.0010	-.0085	-.0079
#3	23.28	4.887	69.42	.6015	.0101	43.14	.0247	.0108	.0169	-.0227

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	2.638	.0303	28.41	.7415	-.0175	.0556	.0777
Stddev	.009	.0027	.20	.0049	.0079	.0061	.0006
%RSD	.3207	8.757	.6998	.6603	44.88	10.91	.7681
#1	2.645	.0330	28.30	.7377	-.0246	.0623	.0780
#2	2.628	.0303	28.29	.7397	-.0190	.0505	.0771
#3	2.639	.0277	28.64	.7470	-.0090	.0539	.0782

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	2850.0	8488.4	51429.	2096.8
Stddev	27.8	88.7	474.	50.0
%RSD	.97710	1.0454	.92199	2.3849
#1	2818.5	8386.7	51073.	2139.8
#2	2860.1	8528.7	51247.	2108.8
#3	2871.4	8550.0	51967.	2041.9

Zoom In Zoom Out

Sample Name: FA23189-39 Acquired: 4/3/2015 17:44:57 Type: Unk
Method: 60102007_042011(v210) Mode: CONC Corr. Factor: 10.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)
Avg	.0263	34.23	.0265	.5904	.0000	4145.	-.0005	.0170	.0316
Stddev	.0029	.25	.0126	.0086	.001	8.	.0003	.0006	.0022
%RSD	10.96	.7257	47.69	1.463	12090.	.2026	67.10	3.762	6.917
#1	.0250	34.49	.0411	.5949	.0004	4153.	-.0009	.0169	.0314
#2	.0296	33.99	.0188	.5804	.0004	4146.	-.0004	.0177	.0295
#3	.0243	34.21	.0196	.5958	-.0009	4136.	-.0002	.0164	.0338

Elem	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
IS Ref	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)
Avg	.0393	26.87	7.183	78.70	.6418	.0112	55.41	.0357	.0145
Stddev	.0033	.10	.621	.17	.0018	.0018	.26	.0036	.0076
%RSD	8.266	.3802	8.646	.2182	.2742	15.69	.4604	9.980	52.53
#1	.0427	26.84	7.871	78.74	.6425	.0092	55.70	.0364	.0061
#2	.0391	26.98	6.664	78.85	.6431	.0125	55.23	.0318	.0210
#3	.0362	26.78	7.014	78.51	.6398	.0120	55.29	.0388	.0164

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	.0216	-.0056	2.789	.0242	F42.27	.8337	-.0214	.0761	.0944
Stddev	.0218	.0124	.010	.0011	.34	.0039	.0213	.0056	.0006
%RSD	101.3	221.7	.3609	4.519	.7962	.4734	99.39	7.399	.6334
#1	.0349	-.0148	2.800	.0242	42.65	.8381	.0031	.0811	.0938
#2	-.0036	-.0106	2.782	.0252	42.18	.8305	-.0354	.0700	.0943
#3	.0334	.0086	2.783	.0231	41.99	.8325	-.0320	.0771	.0950

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	2722.6	8131.0	50209.	2008.9
Stddev	5.8	28.2	492.	19.8
%RSD	.21268	.34728	.98011	.98669
#1	2716.2	8099.4	49719.	2027.7
#2	2727.6	8153.8	50203.	1988.2
#3	2724.0	8139.8	50704.	2010.9

Zoom In Zoom Out

Sample Name: FA23189-41 Acquired: 4/3/2015 17:49:28 Type: Unk
Method: 60102007_042011(v210) Mode: CONC Corr. Factor: 10.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	.0245	78.89	.0368	.9361	.0006	4469.	.0003	.0322	.0772	.0510
Stddev	.0078	.46	.0106	.0109	.0030	90.	.0004	.0011	.0017	.0024
%RSD	31.64	.5783	28.69	1.162	498.7	2.017	135.5	3.418	2.242	4.670
#1	.0302	78.63	.0253	.9243	.0041	4436.	.0006	.0317	.0757	.0502
#2	.0157	79.42	.0391	.9382	-.0015	4571.	.0004	.0335	.0766	.0491
#3	.0277	78.63	.0461	.9457	-.0007	4400.	-.0001	.0315	.0791	.0537

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	64.41	23.53	131.5	1.299	.0149	81.93	.0667	.0495	.0147	-.0152
Stddev	.35	1.26	1.4	.003	.0015	.61	.0024	.0105	.0056	.0134
%RSD	.5393	5.364	1.080	.2627	10.15	.7495	3.568	21.31	38.24	88.06
#1	64.04	23.81	129.8	1.298	.0166	81.34	.0647	.0373	.0124	-.0134
#2	64.72	22.15	132.5	1.296	.0140	82.57	.0693	.0550	.0105	-.0294
#3	64.48	24.62	132.0	1.303	.0141	81.88	.0661	.0561	.0210	-.0028

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	3.888	.0249	31.25	1.944	-.0245	.1639	.2053
Stddev	.181	.0013	.19	.003	.0114	.0045	.0000
%RSD	4.658	5.212	.6037	.1443	46.70	2.718	.0106
#1	4.097	.0264	31.04	1.946	-.0296	.1596	.2053
#2	3.789	.0244	31.40	1.941	-.0325	.1685	.2053
#3	3.778	.0239	31.32	1.945	-.0114	.1636	.2053

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	2743.9	8290.5	51270.	2062.4
Stddev	8.5	11.6	109.	7.5
%RSD	.31033	.13965	.21281	.36148
#1	2739.9	8280.8	51297.	2068.6
#2	2753.6	8303.3	51150.	2064.5
#3	2738.1	8287.4	51363.	2054.2

Zoom In Zoom Out

Sample Name: MP28754-MB1 Acquired: 4/3/2015 17:54:02 Type: QC
Method: 60102007_042011(v210) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0023	-.0203	.0007	.0005	-.0002	.0264	-.0001	.0000	.0003	.0003
Stddev	.0002	.0313	.0005	.0005	.0003	.0128	.0000	.000	.0002	.0006
%RSD	7.805	154.3	75.70	85.26	196.1	48.64	43.31	856.4	79.50	186.9
#1	.0023	-.0560	.0003	.0011	-.0005	.0406	-.0001	.0001	.0005	.0005
#2	.0021	-.0078	.0005	.0002	.0002	.0228	-.0001	-.0002	.0000	.0008
#3	.0024	.0028	.0013	.0003	-.0002	.0157	.0000	.0000	.0004	-.0003
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0207	-.4045	.0517	.0002	.0000	-.0725	.0007	-.0013	.0017	-.0015
Stddev	.0015	.0673	.0389	.0000	.0001	.0200	.0002	.0015	.0010	.0017
%RSD	7.098	16.65	75.38	12.82	387.4	27.55	30.81	109.1	55.81	117.6
#1	.0212	-.3559	.0903	.0002	.0000	-.0536	.0005	-.0002	.0028	-.0030
#2	.0190	-.4814	.0124	.0003	.0001	-.0935	.0006	-.0030	.0014	.0004
#3	.0218	-.3762	.0523	.0002	-.0001	-.0705	.0009	-.0008	.0010	-.0018
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0146	.0241	-.0002	.0007	-.0007	-.0001	.0027
Stddev	.0002	.0003	.0002	.0000	.0013	.0005	.0000
%RSD	1.047	1.202	124.9	5.822	202.0	426.3	.6994
#1	.0148	.0239	-.0001	.0006	-.0013	-.0007	.0027
#2	.0145	.0244	.0000	.0007	.0009	.0003	.0028
#3	.0146	.0239	-.0004	.0007	-.0016	.0000	.0027
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Zoom In Zoom Out

Sample Name: MP28754-MB1 Acquired: 4/3/2015 17:54:02 Type: QC
Method: 60102007_042011(v210) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3157.4	8851.6	55415.	2134.0
Stddev	5.4	11.6	268.	30.7
%RSD	.17092	.13138	.48323	1.4364
#1	3154.7	8853.4	55210.	2106.5
#2	3153.9	8839.2	55316.	2128.5
#3	3163.6	8862.2	55718.	2167.0

Zoom In Zoom Out

Sample Name: CCV Acquired: 4/3/2015 17:58:30 Type: QC
Method: 60102007_042011(v210) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2639	41.11	2.154	2.024	1.987	40.77	2.164	2.104	F2.216
Stddev	.0007	.11	.005	.008	.008	.21	.002	.003	.008
%RSD	.2509	.2574	.2307	.3867	.3874	.5252	.0910	.1527	.3530
#1	.2634	41.23	2.159	2.031	1.995	41.02	2.165	2.108	2.214
#2	.2647	41.07	2.149	2.016	1.985	40.64	2.164	2.103	2.225
#3	.2638	41.03	2.154	2.024	1.980	40.66	2.161	2.101	2.209
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
Value									2.000
Range									10.00%

Elem	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.098	41.50	42.81	42.02	2.176	2.059	39.98	2.122	F2.205
Stddev	.003	.28	.34	.23	.017	.001	.15	.002	.005
%RSD	.1509	.6663	.7961	.5570	.7849	.0371	.3672	.1043	.2439
#1	2.097	41.79	43.19	42.27	2.192	2.058	40.15	2.124	2.202
#2	2.101	41.46	42.69	41.96	2.180	2.058	39.90	2.121	2.202
#3	2.095	41.24	42.55	41.81	2.158	2.060	39.89	2.120	2.211
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
Value									2.000
Range									10.00%

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.067	2.185	2.125	2.167	2.051	2.141	2.122	2.151	F2.252
Stddev	.002	.007	.003	.002	.008	.005	.008	.006	.002
%RSD	.0937	.3020	.1552	.1026	.3752	.2442	.3612	.2824	.0798
#1	2.069	2.192	2.128	2.169	2.059	2.142	2.113	2.147	2.254
#2	2.068	2.183	2.124	2.165	2.044	2.146	2.127	2.158	2.250
#3	2.065	2.179	2.122	2.165	2.049	2.136	2.127	2.148	2.251
Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
Value									2.000
Range									10.00%

Zoom In Zoom Out

Sample Name: CCV Acquired: 4/3/2015 17:58:30 Type: QC
Method: 60102007_042011(v210) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2698.9	8166.0	51447.	2063.9
Stddev	18.8	35.3	337.	16.9
%RSD	.69697	.43254	.65483	.82023
#1	2717.6	8195.5	51273.	2044.4
#2	2699.3	8175.6	51233.	2072.5
#3	2680.0	8126.8	51835.	2074.8

Zoom In Zoom Out

Sample Name: CCB Acquired: 4/3/2015 18:03:00 Type: QC
Method: 60102007_042011(v210) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F.0028	.0216	.0012	.0008	.0000	-.0028	.0000	.0002
Stddev	.0002	.0024	.0007	.0004	.0002	.0053	.0000	.0001
%RSD	8.548	11.13	56.97	46.21	690.1	188.7	1424.	59.54
#1	.0029	.0192	.0018	.0009	-.0002	-.0010	.0000	.0003
#2	.0030	.0216	.0004	.0004	.0002	-.0088	.0000	.0001
#3	.0025	.0240	.0014	.0011	.0001	.0014	.0000	.0001
Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	.0010							
Low Limit	-.0010							

Elem	Cr2677	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0003	.0001	.0179	-.4530	.0490	.0004	F.0025	-.0821
Stddev	.0004	.0004	.0086	.0958	.0134	.0001	.0004	.0224
%RSD	125.8	682.8	48.04	21.15	27.27	33.03	17.73	27.29
#1	-.0001	.0005	.0258	-.4109	.0612	.0005	.0029	-.1055
#2	-.0001	-.0002	.0191	-.3854	.0510	.0003	.0024	-.0608
#3	-.0007	-.0001	.0087	-.5626	.0348	.0002	.0021	-.0801
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit							.0010	
Low Limit							-.0010	

Elem	Ni2316	Pb2203	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0006	-.0009	.0014	F-.0022	.0004	.0007	.0003	.0012
Stddev	.0002	.0002	.0006	.0008	.0003	.0002	.0002	.0003
%RSD	32.03	22.63	45.31	36.99	79.39	22.43	50.53	24.30
#1	.0006	-.0012	.0016	-.0031	.0004	.0008	.0005	.0015
#2	.0007	-.0007	.0019	-.0016	.0001	.0008	.0002	.0013
#3	.0004	-.0010	.0007	-.0020	.0007	.0005	.0002	.0009
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	None	Chk Pass	Chk Pass	Chk Pass
High Limit				.0020				
Low Limit				-.0020				

Zoom In Zoom Out

Sample Name: CCB Acquired: 4/3/2015 18:03:00 Type: QC
Method: 60102007_042011(v210) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm
Avg	-.0008	.0001	.0002
Stddev	.0004	.0005	.0000
%RSD	46.85	347.7	13.16
#1	-.0006	.0003	.0002
#2	-.0006	.0005	.0002
#3	-.0013	-.0004	.0002
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3080.9	8601.6	53971.	2081.6
Stddev	10.6	16.4	130.	24.8
%RSD	.34548	.19031	.24145	1.1905
#1	3076.9	8584.0	53842.	2071.1
#2	3072.8	8616.3	54103.	2109.9
#3	3093.0	8604.4	53968.	2063.9

Zoom In Zoom Out

Sample Name: MP28754-B1 Acquired: 4/3/2015 18:07:29 Type: QC
Method: 60102007_042011(v210) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0525	27.78	2.124	2.060	.0510	25.75	.0531	.5236	.2256	.2678
Stddev	.0008	.10	.009	.005	.0004	.04	.0001	.0006	.0018	.0020
%RSD	1.437	.3433	.4251	.2590	.8532	.1542	.1522	.1074	.8068	.7308
#1	.0517	27.67	2.131	2.054	.0510	25.71	.0530	.5240	.2272	.2699
#2	.0532	27.85	2.127	2.064	.0514	25.73	.0532	.5237	.2259	.2672
#3	.0524	27.83	2.114	2.061	.0505	25.79	.0531	.5230	.2236	.2661
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value										
Range										

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	26.84	26.50	26.37	.5491	.5047	25.36	.5382	.5418	.5052	2.150
Stddev	.08	.11	.07	.0012	.0009	.06	.0010	.0018	.0011	.005
%RSD	.2930	.4097	.2543	.2181	.1824	.2247	.1776	.3236	.2124	.2311
#1	26.75	26.47	26.44	.5504	.5053	25.31	.5376	.5400	.5063	2.155
#2	26.88	26.62	26.38	.5487	.5052	25.42	.5393	.5435	.5050	2.152
#3	26.90	26.41	26.30	.5481	.5037	25.36	.5376	.5420	.5042	2.145
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value										
Range										

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0207	.5735	.5112	.5268	2.102	.5246	.5622
Stddev	.0015	.0011	.0023	.0019	.004	.0032	.0006
%RSD	7.073	.1983	.4406	.3547	.1963	.6122	.1078
#1	.0201	.5739	.5100	.5289	2.099	.5281	.5628
#2	.0223	.5744	.5138	.5263	2.107	.5237	.5624
#3	.0195	.5722	.5099	.5253	2.100	.5219	.5616
Check ?	None	Chk Pass	None	None	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Zoom In Zoom Out

Sample Name: MP28754-B1 Acquired: 4/3/2015 18:07:29 Type: QC
Method: 60102007_042011(v210) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2846.5	8471.3	53214.	2072.1
Stddev	13.1	47.7	493.	9.6
%RSD	.46064	.56297	.92602	.46532
#1	2836.6	8425.4	52735.	2082.9
#2	2841.5	8468.0	53720.	2068.8
#3	2861.3	8520.6	53189.	2064.5

Zoom In Zoom Out

Sample Name: FA23243-19 Acquired: 4/3/2015 18:11:52 Type: Unk
Method: 60102007_042011(v210) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	-.0019	80.49	.0469	.4820	.0050	327.3	.0008	.0089	.1377	.0511
Stddev	.0001	.29	.0004	.0021	.0001	9.3	.0000	.0000	.0003	.0004
%RSD	7.232	.3598	.9492	.4385	2.781	2.840	4.103	.3394	.2367	.8470
#1	-.0018	80.77	.0470	.4840	.0049	338.0	.0009	.0089	.1376	.0511
#2	-.0020	80.51	.0472	.4822	.0052	321.6	.0008	.0089	.1381	.0515
#3	-.0020	80.20	.0464	.4798	.0050	322.2	.0008	.0088	.1375	.0506

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	36.79	1.791	106.8	.3200	.0018	1.534	.0407	.1552	-.0007	.0044
Stddev	.12	.018	.3	.0004	.0002	.012	.0001	.0013	.0010	.0016
%RSD	.3161	.9807	.2731	.1126	11.57	.7937	.3625	.8463	138.3	36.10
#1	36.91	1.811	107.1	.3200	.0017	1.547	.0408	.1567	-.0004	.0028
#2	36.79	1.779	106.8	.3197	.0020	1.525	.0406	.1541	.0001	.0059
#3	36.67	1.782	106.5	.3204	.0016	1.528	.0409	.1550	-.0018	.0045

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	2.647	.0147	1.584	.0950	-.0093	.0867	.0544
Stddev	.004	.0002	.006	.0005	.0019	.0004	.0002
%RSD	.1591	1.699	.3920	.5127	20.84	.4672	.2930
#1	2.651	.0145	1.587	.0955	-.0088	.0871	.0543
#2	2.645	.0146	1.588	.0946	-.0076	.0868	.0545
#3	2.643	.0149	1.577	.0949	-.0114	.0863	.0545

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	2598.8	14055.	87112.	3534.2
Stddev	12.9	17.	21.	30.7
%RSD	.49769	.11848	.02382	.86901
#1	2612.7	14074.	87090.	3505.9
#2	2596.7	14046.	87116.	3566.8
#3	2587.1	14046.	87130.	3529.8

Zoom In Zoom Out

Sample Name: MP28754-D1 Acquired: 4/3/2015 18:16:25 Type: Unk
Method: 60102007_042011(v210) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	-.0018	88.29	.0489	.5035	.0050	464.1	.0010	.0100	.1537	.0571
Stddev	.0002	.19	.0003	.0009	.0001	.9	.0001	.0001	.0003	.0002
%RSD	11.75	.2109	.6493	.1746	1.422	.1832	5.150	.9045	.1645	.4048
#1	-.0017	88.50	.0489	.5045	.0050	465.1	.0010	.0101	.1539	.0572
#2	-.0016	88.15	.0492	.5034	.0049	463.6	.0010	.0099	.1537	.0568
#3	-.0020	88.22	.0486	.5027	.0050	463.6	.0011	.0100	.1534	.0572

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	40.73	2.137	130.5	.4042	.0018	1.889	.0473	.1618	-.0008	.0050
Stddev	.11	.028	.5	.0009	.0001	.005	.0002	.0026	.0007	.0010
%RSD	.2666	1.319	.3596	.2198	6.387	.2849	.3848	1.581	81.78	20.63
#1	40.85	2.111	130.9	.4048	.0017	1.895	.0475	.1640	-.0015	.0059
#2	40.63	2.167	130.0	.4045	.0019	1.884	.0474	.1623	-.0008	.0039
#3	40.71	2.134	130.4	.4031	.0017	1.889	.0471	.1590	-.0001	.0053

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	2.910	.0145	1.705	.1084	-.0075	.1050	.0624
Stddev	.002	.0003	.002	.0002	.0014	.0004	.0001
%RSD	.0675	2.230	.1245	.2109	18.11	.3538	.2202
#1	2.910	.0146	1.707	.1086	-.0060	.1049	.0625
#2	2.908	.0142	1.704	.1085	-.0086	.1054	.0623
#3	2.912	.0149	1.703	.1082	-.0080	.1046	.0625

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	2549.6	13962.	86605.	3506.8
Stddev	5.9	15.	674.	28.9
%RSD	.23057	.11090	.77820	.82485
#1	2543.7	13946.	86462.	3505.8
#2	2555.4	13976.	86014.	3536.2
#3	2549.8	13965.	87339.	3478.4

Zoom In
Zoom Out

Sample Name: MP28754-SD1 Acquired: 4/3/2015 18:20:57 Type: Unk
Method: 60102007_042011(v210) Mode: CONC Corr. Factor: 5.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	.0049	129.2	.0764	.7765	.0071	547.0	.0010	.0147	.2243	.0976
Stddev	.0032	.3	.0012	.0055	.0010	1.4	.0002	.0005	.0013	.0020
%RSD	64.45	.2080	1.578	.7123	13.80	.2491	15.23	3.233	.5662	2.101
#1	.0051	129.5	.0751	.7814	.0082	547.9	.0009	.0143	.2254	.0977
#2	.0080	129.0	.0768	.7774	.0062	547.7	.0011	.0152	.2229	.0995
#3	.0017	129.2	.0774	.7705	.0070	545.5	.0012	.0145	.2246	.0954

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	60.21	1.766	176.6	.5264	.0027	3.033	.0701	.1405	-.0045	.0063
Stddev	.04	.110	.4	.0012	.0007	.015	.0006	.0042	.0075	.0086
%RSD	.0684	6.224	.2178	.2323	25.82	.4791	.9071	2.968	168.6	136.6
#1	60.26	1.707	176.4	.5263	.0033	3.016	.0701	.1435	.0021	.0163
#2	60.18	1.893	176.3	.5252	.0027	3.039	.0707	.1422	-.0028	.0021
#3	60.19	1.698	177.0	.5277	.0020	3.043	.0694	.1357	-.0126	.0006

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	4.244	.0266	2.545	.1576	-.0180	.1359	.1084
Stddev	.013	.0012	.007	.0007	.0039	.0011	.0008
%RSD	.2968	4.596	.2730	.4543	21.68	.8134	.7628
#1	4.258	.0279	2.551	.1576	-.0149	.1350	.1089
#2	4.234	.0256	2.537	.1569	-.0224	.1356	.1089
#3	4.239	.0261	2.547	.1583	-.0166	.1372	.1075

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	2836.5	9804.2	60601.	2391.3
Stddev	10.5	35.8	350.	12.7
%RSD	.37138	.36523	.57706	.53214
#1	2824.7	9770.3	60978.	2381.2
#2	2839.6	9800.7	60287.	2387.0
#3	2845.1	9841.7	60538.	2405.6

Zoom In
Zoom Out

Sample Name: MP28754-PS1 Acquired: 4/3/2015 18:25:22 Type: Unk
Method: 60102007_042011(v210) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	.0306	80.35	.1132	.6300	.0357	317.4	.0319	.0389	.1686	.1145
Stddev	.0006	.22	.0009	.0020	.0003	1.7	.0001	.0001	.0003	.0005
%RSD	1.918	.2690	.7565	.3172	.8075	.5227	.2805	.2394	.1806	.4800
#1	.0313	80.39	.1123	.6319	.0360	319.2	.0318	.0389	.1686	.1151
#2	.0301	80.54	.1133	.6301	.0358	316.1	.0319	.0388	.1689	.1144
#3	.0305	80.12	.1140	.6279	.0354	316.8	.0320	.0390	.1683	.1141

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	37.71	8.675	107.1	.3471	.0615	8.253	.1018	.2071	.0607	.0686
Stddev	.08	.036	.5	.0004	.0002	.047	.0002	.0008	.0009	.0005
%RSD	.2227	.4182	.4732	.1061	.3888	.5692	.2244	.4030	1.515	.7472
#1	37.71	8.688	107.4	.3467	.0612	8.307	.1018	.2062	.0606	.0680
#2	37.80	8.704	107.4	.3474	.0615	8.226	.1016	.2072	.0599	.0689
#3	37.63	8.635	106.5	.3471	.0617	8.225	.1020	.2078	.0617	.0688

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	2.636	.0452	1.579	.1557	.0975	.1162	.2163
Stddev	.004	.0002	.007	.0002	.0007	.0006	.0005
%RSD	.1393	.3790	.4510	.1427	.7528	.4844	.2184
#1	2.631	.0450	1.580	.1554	.0974	.1167	.2162
#2	2.637	.0453	1.585	.1558	.0968	.1163	.2160
#3	2.638	.0454	1.571	.1558	.0982	.1156	.2169

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	2624.1	14084.	87445.	3590.6
Stddev	11.6	45.	315.	32.0
%RSD	.44192	.31783	.36064	.89051
#1	2629.0	14088.	87082.	3557.5
#2	2632.5	14126.	87599.	3621.4
#3	2610.9	14037.	87653.	3593.0

Zoom In
Zoom Out

Sample Name: MP28754-S1 Acquired: 4/3/2015 18:29:53 Type: Unk
Method: 60102007_042011(v210) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	.0297	122.8	1.331	1.713	.0354	408.7	.0313	.3083	.3179	.2156
Stddev	.0006	.2	.004	.005	.0001	.7	.0001	.0001	.0008	.0005
%RSD	1.866	.1455	.2621	.2724	.3583	.1655	.2790	.0469	.2635	.2100
#1	.0301	122.9	1.335	1.718	.0352	409.4	.0313	.3083	.3183	.2151
#2	.0298	122.8	1.330	1.713	.0354	408.1	.0314	.3085	.3185	.2161
#3	.0291	122.6	1.329	1.709	.0354	408.7	.0312	.3083	.3169	.2156

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	64.79	19.79	138.6	.7128	.2663	18.08	.3544	.6814	.1126	1.300
Stddev	.02	.06	.4	.0015	.0003	.04	.0003	.0019	.0011	.003
%RSD	.0378	.3149	.2652	.2117	.1016	.2097	.0825	.2746	.9663	.1896
#1	64.82	19.86	138.2	.7141	.2666	18.12	.3544	.6829	.1114	1.302
#2	64.77	19.78	138.5	.7130	.2664	18.04	.3546	.6793	.1132	1.297
#3	64.79	19.74	138.9	.7112	.2660	18.07	.3541	.6819	.1133	1.300

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	2.990	.3200	1.852	.2884	1.993	.4231	.3881
Stddev	.002	.0010	.006	.0004	.003	.0002	.0001
%RSD	.0701	.2977	.3199	.1500	.1381	.0573	.0281
#1	2.987	.3209	1.856	.2886	1.995	.4229	.3881
#2	2.990	.3190	1.854	.2887	1.990	.4234	.3882
#3	2.992	.3200	1.845	.2879	1.995	.4231	.3880

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	2569.6	13334.	83055.	3367.6
Stddev	5.6	36.	647.	8.1
%RSD	.21925	.26879	.77955	.24143
#1	2575.6	13364.	82359.	3376.4
#2	2564.5	13294.	83164.	3366.1
#3	2568.7	13343.	83640.	3360.3

Zoom In
Zoom Out

Sample Name: MP28754-S2 Acquired: 4/3/2015 18:34:24 Type: Unk
Method: 60102007_042011(v210) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	.0293	116.0	1.292	1.706	.0350	308.7	.0307	.3042	.2985	.2053
Stddev	.0003	.3	.000	.004	.0002	4.0	.0001	.0002	.0011	.0008
%RSD	.9975	.2222	.0102	.2519	.4362	1.294	.4662	.0671	.3695	.3978
#1	.0291	115.7	1.292	1.701	.0348	312.7	.0309	.3043	.2981	.2061
#2	.0296	116.3	1.293	1.707	.0351	308.7	.0306	.3039	.2977	.2045
#3	.0291	115.9	1.292	1.709	.0350	304.7	.0307	.3043	.2997	.2054

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	60.93	18.75	111.4	.6281	.2541	17.08	.3454	.6854	.1016	1.263
Stddev	.22	.05	.5	.0008	.0003	.06	.0005	.0035	.0003	.001
%RSD	.3590	.2495	.4215	.1337	.1248	.3401	.1315	.5083	.3158	.1019
#1	60.70	18.72	111.0	.6272	.2544	17.02	.3448	.6828	.1013	1.264
#2	61.13	18.80	111.9	.6281	.2540	17.07	.3456	.6840	.1019	1.262
#3	60.96	18.73	111.4	.6289	.2538	17.14	.3457	.6893	.1015	1.263

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	2.778	.3142	1.797	.2241	1.992	.3957	.3794
Stddev	.003	.0001	.004	.0003	.007	.0014	.0002
%RSD	.1075	.0251	.1974	.1228	.3620	.3587	.0462
#1	2.781	.3143	1.793	.2241	1.990	.3946	.3795
#2	2.776	.3142	1.800	.2239	1.986	.3952	.3792
#3	2.776	.3141	1.798	.2244	2.000	.3973	.3795

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	2610.0	13678.	84678.	3405.6
Stddev	3.9	19.	94.	34.7
%RSD	.15000	.13832	.11109	1.0188
#1	2612.0	13658.	84570.	3371.1
#2	2612.5	13696.	84737.	3440.5
#3	2605.5	13681.	84729.	3405.0

Zoom In
Zoom Out

Sample Name: FA23243-20 Acquired: 4/3/2015 18:38:56 Type: Unk
Method: 60102007_042011(v210) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	-.0005	57.41	.0387	.4618	.0043	64.58	.0007	.0062	.1141	.3622
Stddev	.0001	.27	.0004	.0015	.0002	.26	.0000	.0001	.0002	.0009
%RSD	13.63	.4638	.9901	.3164	4.051	.4083	5.993	1.319	.1794	.2440
#1	-.0006	57.16	.0387	.4608	.0042	64.28	.0007	.0063	.1139	.3618
#2	-.0005	57.69	.0392	.4635	.0045	64.68	.0007	.0062	.1143	.3632
#3	-.0005	57.40	.0384	.4612	.0042	64.78	.0007	.0061	.1141	.3616

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	26.46	.6272	20.38	.4311	.0007	.2749	.0264	.2042	-.0020	.0018
Stddev	.12	.0630	.08	.0006	.0002	.0073	.0001	.0011	.0010	.0007
%RSD	.4677	10.05	.4108	.1434	21.18	2.654	.2982	.5266	50.10	35.73
#1	26.32	.6629	20.29	.4313	.0007	.2833	.0265	.2041	-.0031	.0013
#2	26.55	.6644	20.40	.4304	.0006	.2716	.0264	.2032	-.0013	.0017
#3	26.52	.5544	20.45	.4316	.0009	.2698	.0265	.2054	-.0014	.0025

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	2.024	.0161	1.075	.0674	-.0065	.0407	.0685
Stddev	.001	.0001	.005	.0005	.0013	.0001	.0002
%RSD	.0641	.4787	.4818	.7414	19.93	.2820	.2218
#1	2.022	.0160	1.072	.0675	-.0051	.0406	.0687
#2	2.025	.0160	1.081	.0668	-.0077	.0408	.0684
#3	2.024	.0161	1.073	.0678	-.0067	.0407	.0685

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	2904.7	13409.	82938.	3267.4
Stddev	15.4	46.	238.	9.4
%RSD	.53164	.34039	.28685	.28678
#1	2899.1	13393.	82664.	3260.5
#2	2922.1	13461.	83071.	3263.7
#3	2892.8	13374.	83081.	3278.1

Zoom In
Zoom Out

Sample Name: FA23243-21 Acquired: 4/3/2015 18:43:20 Type: Unk
Method: 60102007_042011(v210) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)
Avg	-.0024	117.4	.0542	.5962	.0051	476.2	.0009	.0132
Stddev	.0003	.3	.0006	.0018	.0001	7.8	.0000	.0001
%RSD	12.69	.2881	1.073	.3090	2.717	1.630	3.410	.5770
#1	-.0021	117.4	.0549	.5969	.0051	472.3	.0010	.0132
#2	-.0027	117.1	.0540	.5941	.0052	471.1	.0009	.0131
#3	-.0025	117.8	.0537	.5976	.0049	485.1	.0009	.0131

Elem	Cr2677	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)
Avg	.2260	.0218	57.81	2.832	141.9	.4122	.0020	2.625
Stddev	.0002	.0005	.27	.050	.4	.0005	.0000	.018
%RSD	.0768	2.153	.4720	1.776	.2862	.1294	2.341	.6716
#1	.2262	.0215	57.87	2.776	142.1	.4128	.0020	2.644
#2	.2259	.0216	57.51	2.871	141.5	.4118	.0020	2.609
#3	.2259	.0223	58.04	2.850	142.2	.4120	.0019	2.622

Elem	Ni2316	Pb2203	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)
Avg	.0603	.2058	.0007	.0057	2.619	.0139	1.895	.2885
Stddev	.0002	.0005	.0011	.0010	.003	.0002	.004	.0003
%RSD	.3744	.2662	156.8	18.33	.1043	1.399	.2270	.1029
#1	.0600	.2060	.0019	.0065	2.618	.0137	1.892	.2887
#2	.0604	.2062	.0002	.0060	2.621	.0141	1.892	.2885
#3	.0603	.2052	-.0001	.0045	2.616	.0139	1.900	.2882

Elem	Tl1908	V_2924	Zn2062
IS Ref	(In2306)	(Y_3600)	(Y_2243)
Avg	F-.0107	.1441	.1056
Stddev	.0000	.0005	.0001
%RSD	.0190	.3594	.0696
#1	-.0107	.1444	.1056
#2	-.0107	.1435	.1057
#3	-.0107	.1443	.1055

Zoom In
Zoom Out

Sample Name: FA23243-21 Acquired: 4/3/2015 18:43:20 Type: Unk
Method: 60102007_042011(v210) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	2551.0	15091.	93136.	3773.1
Stddev	2.7	51.	538.	9.8
%RSD	.10667	.33798	.57740	.25969
#1	2551.0	15140.	92531.	3766.6
#2	2553.7	15095.	93560.	3768.3
#3	2548.2	15038.	93318.	3784.3

Zoom In
Zoom Out

Sample Name: FA23243-22 Acquired: 4/3/2015 18:47:54 Type: Unk
Method: 60102007_042011(v210) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)
Avg	-.0022	105.5	.0554	.5306	.0045	F530.9	.0008	.0119	.2066
Stddev	.0005	.2	.0012	.0010	.0000	4.9	.0000	.0001	.0004
%RSD	23.07	.1912	2.098	.1889	.9485	.9173	5.795	.4289	.2115
#1	-.0019	105.7	.0541	.5317	.0045	527.1	.0007	.0120	.2070
#2	-.0028	105.3	.0564	.5299	.0045	536.4	.0008	.0119	.2065
#3	-.0020	105.5	.0556	.5301	.0046	529.3	.0008	.0119	.2062

Elem	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
IS Ref	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)
Avg	.0101	52.60	2.539	142.9	.4349	.0018	2.638	.0541	.1656
Stddev	.0000	.03	.015	.3	.0009	.0001	.013	.0000	.0021
%RSD	.3915	.0640	.5912	.1926	.2182	6.300	.5058	.0477	1.258
#1	.0101	52.59	2.538	143.2	.4355	.0019	2.624	.0541	.1675
#2	.0101	52.57	2.554	142.9	.4354	.0017	2.641	.0541	.1659
#3	.0102	52.64	2.524	142.6	.4338	.0017	2.650	.0541	.1634

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	-.0009	.0062	2.687	.0142	1.666	.2853	-.0092	.1355	.0778
Stddev	.0006	.0016	.005	.0003	.003	.0005	.0012	.0004	.0000
%RSD	61.24	25.84	.1851	2.294	.1898	.1866	12.69	.3186	.0386
#1	-.0005	.0046	2.684	.0141	1.670	.2854	-.0104	.1360	.0778
#2	-.0015	.0061	2.693	.0139	1.665	.2858	-.0091	.1354	.0778
#3	-.0008	.0078	2.685	.0145	1.664	.2847	-.0081	.1351	.0778

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	2512.0	14134.	87378.	3519.5
Stddev	3.7	6.	826.	29.5
%RSD	.14736	.04191	.94500	.83792
#1	2511.0	14133.	87985.	3485.7
#2	2508.8	14129.	86438.	3533.3
#3	2516.1	14141.	87712.	3539.6

Zoom In Zoom Out

Sample Name: CCV Acquired: 4/3/2015 18:52:26 Type: QC
Method: 60102007_042011(v210) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2621	41.14	2.089	2.039	2.001	41.10	2.109	2.069	2.182
Stddev	.0008	.59	.006	.027	.020	.56	.004	.003	.005
%RSD	.3158	1.434	.2716	1.311	.9785	1.372	.1895	.1441	.2252
#1	.2620	41.81	2.096	2.068	2.022	41.74	2.111	2.071	2.188
#2	.2613	40.87	2.086	2.035	1.996	40.90	2.111	2.071	2.180
#3	.2629	40.73	2.086	2.015	1.984	40.67	2.105	2.066	2.178
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value									
Range									

Elem	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.090	41.10	43.01	42.03	2.122	2.024	40.40	2.105	F2.225
Stddev	.002	.48	.65	.48	.026	.001	.64	.002	.001
%RSD	.1092	1.162	1.512	1.138	1.247	.0500	1.586	.0771	.0348
#1	2.088	41.65	43.76	42.58	2.153	2.025	41.12	2.105	2.225
#2	2.092	40.86	42.68	41.77	2.109	2.025	40.20	2.106	2.226
#3	2.091	40.79	42.59	41.74	2.105	2.023	39.89	2.103	2.224
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
Value									2.000
Range									10.00%

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.010	2.126	2.071	2.137	2.073	2.097	2.150	2.153	F2.230
Stddev	.004	.005	.004	.004	.024	.004	.006	.001	.003
%RSD	.1720	.2298	.2009	.1692	1.159	.2120	.2936	.0670	.1145
#1	2.012	2.131	2.076	2.140	2.099	2.102	2.151	2.154	2.232
#2	2.012	2.126	2.069	2.137	2.069	2.093	2.155	2.154	2.232
#3	2.006	2.121	2.068	2.133	2.051	2.095	2.143	2.152	2.227
Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
Value									2.000
Range									10.00%

Zoom In Zoom Out

Sample Name: CCV Acquired: 4/3/2015 18:52:26 Type: QC
Method: 60102007_042011(v210) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2664.2	8198.3	51539.	2011.0
Stddev	5.8	13.6	166.	57.4
%RSD	.21683	.16562	.32262	2.8531
#1	2670.8	8214.0	51669.	1946.7
#2	2660.3	8190.6	51352.	2057.1
#3	2661.5	8190.3	51597.	2029.1

Zoom In Zoom Out

Sample Name: CCB Acquired: 4/3/2015 18:56:55 Type: QC
Method: 60102007_042011(v210) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F.0026	-.0049	.0019	.0005	.0002	-.0033	.0001	.0001
Stddev	.0006	.0218	.0008	.0005	.0002	.0054	.0000	.0000
%RSD	24.42	441.4	42.54	95.00	71.79	162.2	18.37	33.19
#1	.0031	.0117	.0025	.0002	.0003	-.0032	.0001	.0001
#2	.0028	.0031	.0021	.0003	.0000	.0020	.0001	.0001
#3	.0019	-.0296	.0010	.0010	.0003	-.0088	.0001	.0001
Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	.0010							
Low Limit	-.0010							

Elem	Cr2677	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0003	-.0001	.0195	-.4458	.0399	.0003	F.0026	-.0959
Stddev	.0003	.0002	.0035	.0940	.0052	.0001	.0003	.0121
%RSD	97.68	243.7	17.66	21.07	12.99	23.97	11.15	12.60
#1	-.0006	.0001	.0232	-.5497	.0404	.0003	.0030	-.1099
#2	.0000	-.0003	.0191	-.3668	.0344	.0003	.0025	-.0884
#3	-.0004	-.0001	.0163	-.4210	.0447	.0002	.0024	-.0895
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit							.0010	
Low Limit							-.0010	

Elem	Ni2316	Pb2203	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0006	-.0007	.0012	F-.0044	.0006	.0009	.0003	.0010
Stddev	.0005	.0005	.0017	.0011	.0003	.0001	.0002	.0001
%RSD	81.03	76.21	141.0	24.62	54.28	11.20	51.09	9.318
#1	.0011	-.0009	-.0007	-.0038	.0009	.0008	.0004	.0010
#2	.0005	-.0001	.0017	-.0038	.0002	.0010	.0004	.0011
#3	.0001	-.0011	.0027	-.0056	.0007	.0009	.0001	.0009
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	None	Chk Pass	Chk Pass	Chk Pass
High Limit				.0020				
Low Limit				-.0020				

Zoom In Zoom Out

Sample Name: CCB Acquired: 4/3/2015 18:56:55 Type: QC
Method: 60102007_042011(v210) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm
Avg	-.0005	.0004	.0002
Stddev	.0020	.0005	.0000
%RSD	373.4	144.6	13.00
#1	.0003	.0005	.0002
#2	.0009	.0009	.0002
#3	-.0028	-.0002	.0003
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3036.3	8615.3	53990.	2030.7
Stddev	6.5	12.0	140.	30.5
%RSD	.21361	.13889	.25994	1.4999
#1	3035.8	8601.7	54111.	1998.4
#2	3043.0	8624.3	53836.	2034.6
#3	3030.1	8619.9	54023.	2059.0

Zoom In
Zoom Out

Sample Name: FA23243-23 Acquired: 4/3/2015 19:01:23 Type: Unk
Method: 60102007_042011(v210) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)
Avg	-.0020	106.0	.1219	.4856	.0045	F632.1	.0019	.0163	.2377
Stddev	.0001	.3	.0008	.0034	.0001	10.5	.0000	.0001	.0010
%RSD	4.252	.2667	.6813	.7073	2.361	1.667	.9918	.5838	.4007
#1	-.0020	106.0	.1221	.4857	.0046	643.2	.0019	.0164	.2366
#2	-.0020	106.3	.1226	.4889	.0044	630.7	.0018	.0162	.2383
#3	-.0021	105.8	.1210	.4821	.0045	622.2	.0019	.0163	.2382

Elem	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
IS Ref	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)
Avg	.1587	62.76	4.660	221.7	.6811	.0104	4.049	.0798	.1868
Stddev	.0002	.14	.050	.8	.0011	.0001	.047	.0002	.0020
%RSD	.1077	.2221	1.081	.3446	.1572	1.057	1.155	.1934	1.082
#1	.1589	62.76	4.609	221.2	.6800	.0104	4.014	.0799	.1887
#2	.1585	62.90	4.662	222.5	.6809	.0103	4.102	.0796	.1872
#3	.1587	62.62	4.710	221.2	.6822	.0105	4.030	.0797	.1847

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	.0017	.0064	3.069	.0138	1.934	.3175	-.0082	.2545	.2086
Stddev	.0004	.0024	.005	.0003	.007	.0004	.0031	.0013	.0002
%RSD	25.77	37.81	.1554	2.179	.3801	.1225	37.26	.5269	.0799
#1	.0021	.0058	3.073	.0138	1.933	.3170	-.0111	.2529	.2088
#2	.0017	.0043	3.064	.0141	1.942	.3176	-.0084	.2552	.2086
#3	.0012	.0090	3.069	.0135	1.928	.3178	-.0050	.2552	.2085

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	2451.4	14695.	90478.	3640.9
Stddev	9.2	29.	963.	4.1
%RSD	.37590	.19934	1.0640	.11186
#1	2450.9	14718.	91586.	3637.6
#2	2442.5	14662.	90002.	3639.8
#3	2460.9	14705.	89845.	3645.5

Zoom In
Zoom Out

Sample Name: FA23243-24 Acquired: 4/3/2015 19:05:55 Type: Unk
Method: 60102007_042011(v210) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	-.0020	101.9	.0709	.5003	.0042	493.8	.0014	.0113	.2178	.1990
Stddev	.0006	.1	.0001	.0017	.0002	7.8	.0000	.0000	.0005	.0006
%RSD	28.74	.0863	.1940	.3308	3.612	1.586	3.147	.3208	.2248	.2784
#1	-.0025	101.8	.0708	.4985	.0042	485.9	.0014	.0112	.2184	.1991
#2	-.0014	102.0	.0708	.5017	.0044	501.6	.0014	.0113	.2176	.1994
#3	-.0019	102.0	.0710	.5006	.0041	493.8	.0014	.0113	.2175	.1984

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	55.48	3.169	152.1	.5978	.0095	2.904	.0530	.1757	.0003	.0036
Stddev	.15	.043	.3	.0009	.0000	.032	.0003	.0008	.0005	.0020
%RSD	.2647	1.348	.2092	.1571	.2721	1.104	.6094	.4424	182.1	55.12
#1	55.52	3.208	152.3	.5974	.0095	2.868	.0533	.1763	.0000	.0051
#2	55.60	3.124	152.2	.5971	.0095	2.913	.0527	.1748	.0000	.0043
#3	55.31	3.176	151.7	.5988	.0095	2.931	.0529	.1760	.0009	.0013

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	2.968	.0146	1.871	.2790	-.0093	.1699	.1446
Stddev	.002	.0002	.005	.0003	.0016	.0003	.0000
%RSD	.0710	1.196	.2603	.0953	16.83	.1864	.0114
#1	2.965	.0147	1.865	.2787	-.0075	.1699	.1446
#2	2.968	.0147	1.874	.2792	-.0100	.1703	.1446
#3	2.970	.0144	1.873	.2790	-.0103	.1696	.1445

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	2512.5	13856.	85677.	3386.8
Stddev	7.2	27.	42.	29.1
%RSD	.28853	.19511	.04940	.86005
#1	2504.2	13831.	85694.	3411.6
#2	2516.1	13853.	85628.	3354.7
#3	2517.3	13885.	85708.	3394.2

Zoom In
Zoom Out

Sample Name: FA23243-25 Acquired: 4/3/2015 19:10:27 Type: Unk
Method: 60102007_042011(v210) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	-.0015	91.47	.0563	.6679	.0045	376.5	.0012	.0109	.1985	.3136
Stddev	.0001	.04	.0008	.0006	.0000	4.7	.0001	.0001	.0005	.0007
%RSD	7.027	.0440	1.448	.0929	.0850	1.243	5.103	.8992	.2547	.2320
#1	-.0014	91.44	.0556	.6686	.0045	371.6	.0012	.0109	.1991	.3129
#2	-.0016	91.47	.0562	.6678	.0045	377.0	.0012	.0108	.1982	.3137
#3	-.0015	91.52	.0572	.6674	.0045	380.9	.0013	.0109	.1984	.3143

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	49.05	2.463	67.86	.6576	.0035	2.330	.0425	.2415	-.0004	.0058
Stddev	.04	.016	.14	.0007	.0001	.003	.0001	.0008	.0011	.0024
%RSD	.0748	.6372	.2039	.1093	3.042	.1338	.2597	.3439	252.5	40.77
#1	49.05	2.449	67.78	.6584	.0036	2.326	.0425	.2417	.0003	.0039
#2	49.01	2.462	68.02	.6573	.0035	2.332	.0426	.2423	-.0017	.0084
#3	49.08	2.480	67.77	.6570	.0034	2.331	.0424	.2406	.0001	.0051

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	2.499	.0156	2.712	.1707	-.0084	.1073	.1644
Stddev	.003	.0002	.005	.0004	.0017	.0004	.0000
%RSD	.1175	1.371	.1684	.2592	20.09	.3895	.0218
#1	2.496	.0153	2.716	.1711	-.0076	.1074	.1643
#2	2.499	.0157	2.707	.1709	-.0073	.1069	.1643
#3	2.502	.0157	2.711	.1702	-.0103	.1077	.1644

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	2609.3	14447.	88120.	3481.4
Stddev	10.0	39.	350.	24.8
%RSD	.38211	.26883	.39716	.71125
#1	2598.2	14408.	87943.	3489.7
#2	2612.2	14446.	87894.	3500.9
#3	2617.6	14486.	88523.	3453.5

Zoom In
Zoom Out

Sample Name: FA23243-26 Acquired: 4/3/2015 19:14:59 Type: Unk
Method: 60102007_042011(v210) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)
Avg	-.0019	104.2	.0390	.7960	.0050	185.7	.0007	.0109
Stddev	.0002	.2	.0009	.0020	.0001	.1	.0000	.0000
%RSD	8.547	.2253	2.227	.2523	1.099	.0624	4.029	.4117
#1	-.0017	104.2	.0385	.7957	.0051	185.6	.0008	.0109
#2	-.0020	104.0	.0400	.7941	.0050	185.6	.0008	.0109
#3	-.0019	104.4	.0385	.7981	.0050	185.8	.0007	.0110

Elem	Cr2677	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)
Avg	.2098	.3130	52.60	1.557	39.93	.3653	.0014	.9586
Stddev	.0005	.0011	.05	.031	.11	.0007	.0002	.0171
%RSD	.2242	.3400	.0923	2.013	.2776	.1780	16.89	1.782
#1	.2094	.3126	52.57	1.577	39.88	.3649	.0012	.9415
#2	.2103	.3142	52.57	1.521	39.85	.3661	.0014	.9756
#3	.2096	.3121	52.65	1.574	40.05	.3649	.0017	.9587

Elem	Ni2316	Pb2203	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)
Avg	.0394	.2781	-.0022	.0038	1.959	.0160	2.295	.1602
Stddev	.0003	.0015	.0008	.0011	.003	.0004	.004	.0003
%RSD	.6505	.5362	37.89	28.20	.1524	2.548	.1748	.1955
#1	.0397	.2798	-.0016	.0036	1.959	.0156	2.299	.1603
#2	.0392	.2770	-.0032	.0049	1.962	.0160	2.291	.1604
#3	.0394	.2775	-.0018	.0028	1.956	.0164	2.295	.1598

Elem	Tl1908	V_2924	Zn2062
IS Ref	(In2306)	(Y_3600)	(Y_2243)
Avg	F-.0101	.0932	.1314
Stddev	.0005	.0003	.0001
%RSD	4.989	.3333	.1045
#1	-.0107	.0933	.1313
#2	-.0100	.0935	.1314
#3	-.0097	.0929	.1315

Zoom In Zoom Out

Sample Name: FA23243-26 Acquired: 4/3/2015 19:14:59 Type: Unk
Method: 60102007_042011(v210) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	2715.8	15039.	92485.	3652.5
Stddev	5.9	30.	375.	15.7
%RSD	.21724	.20160	.40570	.43046
#1	2711.3	15035.	92875.	3668.9
#2	2722.5	15010.	92452.	3637.6
#3	2713.7	15071.	92127.	3651.1

Zoom In Zoom Out

Sample Name: FA23243-27 Acquired: 4/3/2015 19:19:24 Type: Unk
Method: 60102007_042011(v210) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)
Avg	-.0023	77.44	.0583	.4317	.0036	F1147.	.0019	.0094	.1863
Stddev	.0007	.26	.0002	.0011	.0001	23.	.0000	.0000	.0007
%RSD	30.04	.3298	.3528	.2593	4.093	2.032	1.678	.5162	.3530
#1	-.0031	77.33	.0582	.4314	.0038	1160.	.0018	.0094	.1869
#2	-.0019	77.27	.0581	.4308	.0035	1120.	.0018	.0094	.1862
#3	-.0019	77.74	.0585	.4330	.0036	1161.	.0019	.0094	.1856

Elem	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
IS Ref	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)
Avg	.0146	46.11	2.802	263.9	.9303	.0061	9.052	.0469	.1188
Stddev	.0002	.11	.047	1.1	.0009	.0002	.036	.0001	.0028
%RSD	1.531	.2462	1.673	.4084	.0999	3.063	.3929	.1660	2.397
#1	.0148	45.99	2.845	263.1	.9293	.0061	9.020	.0470	.1217
#2	.0143	46.12	2.810	263.5	.9312	.0059	9.044	.0470	.1185
#3	.0146	46.22	2.752	265.1	.9303	.0063	9.090	.0468	.1160

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	.0061	.0035	2.283	.0124	F4.884	.2950	-.0070	.1801	.0656
Stddev	.0011	.0011	.001	.0002	.005	.0001	.0007	.0009	.0001
%RSD	18.27	32.56	.0349	1.602	.0949	.0461	9.680	.4955	.1506
#1	.0058	.0044	2.282	.0124	4.883	.2952	-.0077	.1807	.0656
#2	.0052	.0022	2.283	.0126	4.880	.2949	-.0064	.1806	.0657
#3	.0073	.0038	2.283	.0122	4.890	.2950	-.0067	.1791	.0655

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	2300.8	14187.	86735.	3570.3
Stddev	.5	42.	536.	24.3
%RSD	.02070	.29689	.61753	.68164
#1	2301.2	14234.	87257.	3568.8
#2	2300.3	14175.	86187.	3595.4
#3	2300.9	14153.	86761.	3546.8

Zoom In Zoom Out

Sample Name: FA23243-28 Acquired: 4/3/2015 19:23:56 Type: Unk
Method: 60102007_042011(v210) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)
Avg	-.0025	57.98	.0615	.2936	.0032	F970.1	.0022	.0082
Stddev	.0002	.05	.0006	.0004	.0000	6.2	.0000	.0000
%RSD	7.455	.0929	.9848	.1281	.6354	.6389	.9539	.1195
#1	-.0025	57.98	.0622	.2932	.0032	963.3	.0022	.0082
#2	-.0026	58.04	.0611	.2939	.0032	975.5	.0022	.0082
#3	-.0023	57.93	.0613	.2936	.0032	971.4	.0022	.0082

Elem	Cr2677	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)
Avg	.1688	.0030	37.63	2.801	311.0	1.095	.0068	8.456
Stddev	.0009	.0004	.06	.047	.5	.021	.0001	.027
%RSD	.5061	12.75	.1511	1.677	.1514	1.885	1.404	.3142
#1	.1688	.0034	37.62	2.748	310.5	1.079	.0069	8.426
#2	.1680	.0030	37.69	2.815	311.5	1.088	.0067	8.476
#3	.1697	.0027	37.58	2.839	311.1	1.119	.0067	8.468

Elem	Ni2316	Pb2203	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)
Avg	.0452	.1079	.0036	.0029	1.898	.0105	2.675	.3018
Stddev	.0000	.0020	.0004	.0014	.003	.0001	.005	.0005
%RSD	.0906	1.890	10.73	49.57	.1786	1.165	.1968	.1634
#1	.0452	.1070	.0037	.0027	1.897	.0105	2.672	.3014
#2	.0453	.1102	.0039	.0016	1.902	.0107	2.682	.3016
#3	.0452	.1064	.0032	.0044	1.896	.0104	2.673	.3023

Elem	Tl1908	V_2924	Zn2062
IS Ref	(In2306)	(Y_3600)	(Y_2243)
Avg	F-.0115	.1774	.0627
Stddev	.0021	.0004	.0001
%RSD	18.65	.2291	.1098
#1	-.0104	.1773	.0628
#2	-.0139	.1770	.0627
#3	-.0101	.1778	.0627

Zoom In Zoom Out

Sample Name: FA23243-28 Acquired: 4/3/2015 19:23:56 Type: Unk
Method: 60102007_042011(v210) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	2270.8	15742.	98088.	3974.6
Stddev	5.0	4.	423.	.7
%RSD	.22026	.02510	.43130	.01760
#1	2268.4	15746.	97850.	3974.7
#2	2276.6	15742.	98577.	3975.3
#3	2267.5	15738.	97838.	3973.9

Zoom In
Zoom Out

Sample Name: FA23243-29 Acquired: 4/3/2015 19:28:36 Type: Unk
Method: 60102007_042011(v210) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	-.0002	55.72	.0123	.4902	.0035	52.26	.0004	.0049	.0887	.0191
Stddev	.0004	.45	.0011	.0028	.0000	.31	.0001	.0000	.0002	.0003
%RSD	195.7	.8077	8.893	.5752	.5870	.5929	13.77	.6366	.1775	1.621
#1	-.0004	56.22	.0131	.4932	.0035	52.56	.0004	.0049	.0887	.0194
#2	-.0005	55.62	.0111	.4898	.0035	52.28	.0005	.0049	.0889	.0187
#3	.0002	55.33	.0129	.4876	.0035	51.94	.0004	.0049	.0886	.0191

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	21.52	.6230	10.50	.1094	.0016	.2990	.0285	.1384	-.0022	.0064
Stddev	.15	.0443	.06	.0002	.0001	.0015	.0001	.0010	.0003	.0022
%RSD	.6749	7.113	.5899	.1823	5.230	.4988	.4710	.7193	16.07	33.62
#1	21.66	.6399	10.57	.1096	.0016	.2974	.0286	.1392	-.0024	.0057
#2	21.53	.5727	10.47	.1095	.0017	.2995	.0284	.1373	-.0018	.0089
#3	21.37	.6564	10.45	.1092	.0015	.3003	.0286	.1388	-.0023	.0047

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	2.550	.0177	1.051	.0898	-.0065	.0511	.0509
Stddev	.002	.0003	.004	.0001	.0012	.0002	.0002
%RSD	.0699	1.618	.4321	.1573	19.10	.4643	.3737
#1	2.548	.0180	1.057	.0897	-.0079	.0513	.0507
#2	2.551	.0174	1.050	.0897	-.0055	.0508	.0510
#3	2.550	.0177	1.048	.0899	-.0062	.0511	.0510

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	2854.3	12429.	77208.	2958.8
Stddev	11.0	54.	145.	36.8
%RSD	.38371	.43148	.18835	1.2449
#1	2866.8	12491.	77111.	2920.8
#2	2846.7	12401.	77137.	2961.3
#3	2849.3	12396.	77375.	2994.4

Zoom In
Zoom Out

Sample Name: FA23243-30 Acquired: 4/3/2015 19:33:01 Type: Unk
Method: 60102007_042011(v210) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)
Avg	-.0028	124.5	.0369	.7724	.0069	135.6	.0006	.0153
Stddev	.0002	.3	.0003	.0014	.0001	.3	.0000	.0000
%RSD	5.823	.2293	.8318	.1853	.9334	.2246	1.477	.1895
#1	-.0026	124.7	.0367	.7732	.0069	135.8	.0006	.0153
#2	-.0029	124.2	.0373	.7732	.0068	135.8	.0006	.0153
#3	-.0029	124.7	.0368	.7707	.0069	135.3	.0006	.0153

Elem	Cr2677	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)
Avg	.2482	.0047	79.52	2.004	19.14	.1557	.0080	1.529
Stddev	.0006	.0001	.08	.010	.07	.0004	.0001	.007
%RSD	.2453	2.907	.1062	.4935	.3433	.2486	1.357	.4727
#1	.2484	.0048	79.60	2.009	19.19	.1561	.0081	1.537
#2	.2475	.0047	79.43	1.993	19.17	.1557	.0080	1.527
#3	.2487	.0045	79.52	2.011	19.06	.1553	.0079	1.523

Elem	Ni2316	Pb2203	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)
Avg	.0480	.2340	-.0033	.0087	1.816	.0134	2.058	.1663
Stddev	.0001	.0013	.0002	.0003	.001	.0002	.004	.0004
%RSD	.2588	.5705	6.590	3.132	.0537	1.131	.1780	.2535
#1	.0482	.2348	-.0031	.0086	1.815	.0134	2.062	.1667
#2	.0480	.2347	-.0035	.0084	1.817	.0135	2.054	.1662
#3	.0480	.2325	-.0035	.0089	1.815	.0132	2.058	.1659

Elem	Tl1908	V_2924	Zn2062
IS Ref	(In2306)	(Y_3600)	(Y_2243)
Avg	F-.0149	.2432	.0520
Stddev	.0025	.0001	.0002
%RSD	16.46	.0359	.3555
#1	-.0131	.2433	.0520
#2	-.0177	.2432	.0518
#3	-.0139	.2431	.0522

Zoom In
Zoom Out

Sample Name: FA23243-30 Acquired: 4/3/2015 19:33:01 Type: Unk
Method: 60102007_042011(v210) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	2719.8	17048.	105110.	4103.2
Stddev	2.4	28.	583.	29.3
%RSD	.08700	.16136	.55454	.71376
#1	2719.6	17071.	104480.	4069.4
#2	2717.5	17018.	105200.	4118.7
#3	2722.2	17056.	105630.	4121.5

Zoom In
Zoom Out

Sample Name: FA23243-31 Acquired: 4/3/2015 19:37:25 Type: Unk
Method: 60102007_042011(v210) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)
Avg	-.0029	150.7	.0473	.8121	.0065	230.4	.0009	.0169
Stddev	.0003	.4	.0004	.0025	.0001	1.9	.0000	.0001
%RSD	9.516	.2986	.7969	.3088	1.563	.8406	2.370	.4239
#1	-.0030	151.1	.0474	.8143	.0066	229.9	.0009	.0169
#2	-.0025	150.7	.0469	.8125	.0065	228.8	.0009	.0170
#3	-.0030	150.2	.0476	.8094	.0064	232.5	.0010	.0168

Elem	Cr2677	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)
Avg	.2877	.0024	78.66	3.115	55.20	.2105	.0074	2.391
Stddev	.0005	.0002	.22	.020	.29	.0005	.0001	.004
%RSD	.1867	8.888	.2809	.6453	.5300	.2482	1.543	.1575
#1	.2878	.0021	78.91	3.133	55.54	.2101	.0075	2.394
#2	.2872	.0025	78.60	3.119	55.05	.2104	.0073	2.392
#3	.2882	.0025	78.48	3.093	55.02	.2111	.0073	2.387

Elem	Ni2316	Pb2203	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)
Avg	.0513	.2575	-.0037	.0071	1.915	.0137	2.426	.2427
Stddev	.0003	.0016	.0004	.0011	.001	.0001	.012	.0004
%RSD	.6560	.6246	11.88	14.94	.0271	.8000	.4974	.1581
#1	.0510	.2562	-.0042	.0065	1.915	.0138	2.435	.2425
#2	.0517	.2570	-.0037	.0065	1.916	.0137	2.431	.2425
#3	.0513	.2592	-.0033	.0083	1.915	.0135	2.413	.2432

Elem	Tl1908	V_2924	Zn2062
IS Ref	(In2306)	(Y_3600)	(Y_2243)
Avg	F-.0146	.2769	.0590
Stddev	.0013	.0009	.0001
%RSD	8.887	.3102	.1823
#1	-.0132	.2764	.0590
#2	-.0148	.2764	.0591
#3	-.0158	.2779	.0589

Zoom In Zoom Out

Sample Name: FA23243-31 Acquired: 4/3/2015 19:37:25 Type: Unk
Method: 60102007_042011(v210) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	2605.1	16622.	103010.	4037.7
Stddev	8.1	53.	582.	39.2
%RSD	.31091	.31968	.56530	.97112
#1	2595.8	16566.	102350.	4009.9
#2	2609.3	16630.	103440.	4082.5
#3	2610.3	16671.	103240.	4020.6

Zoom In Zoom Out

Sample Name: FA23243-32 Acquired: 4/3/2015 19:41:58 Type: Unk
Method: 60102007_042011(v210) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	-.0026	58.60	.0173	.5452	.0040	76.87	.0006	.0051	.1190	.0081
Stddev	.0001	.17	.0006	.0030	.0001	.38	.0001	.0000	.0004	.0001
%RSD	2.620	.2974	3.317	.5537	3.006	.4984	8.460	.4641	.3159	.8052
#1	-.0027	58.55	.0170	.5455	.0040	76.75	.0006	.0051	.1192	.0081
#2	-.0026	58.79	.0170	.5481	.0041	77.30	.0006	.0051	.1191	.0081
#3	-.0026	58.46	.0180	.5421	.0038	76.56	.0005	.0051	.1185	.0080

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	26.51	.4457	8.601	.1105	.0012	.6263	.0242	.1301	-.0025	.0060
Stddev	.12	.0229	.034	.0004	.0001	.0091	.0001	.0012	.0003	.0012
%RSD	.4505	5.146	.3984	.3960	11.17	1.452	.3955	.9548	12.95	19.53
#1	26.42	.4321	8.574	.1107	.0010	.6365	.0241	.1309	-.0029	.0053
#2	26.64	.4328	8.640	.1108	.0013	.6232	.0243	.1287	-.0025	.0052
#3	26.47	.4722	8.590	.1100	.0012	.6191	.0242	.1308	-.0022	.0073

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	2.260	.0123	1.347	.0930	-.0093	.0590	.0351
Stddev	.005	.0004	.003	.0004	.0020	.0002	.0001
%RSD	.2405	3.252	.2408	.4648	21.17	.3089	.1732
#1	2.266	.0123	1.347	.0930	-.0104	.0592	.0352
#2	2.258	.0119	1.350	.0934	-.0105	.0590	.0351
#3	2.256	.0127	1.344	.0926	-.0070	.0589	.0350

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	2797.8	16880.	103920.	3999.0
Stddev	10.2	83.	701.	33.8
%RSD	.36463	.49019	.67500	.84544
#1	2786.7	16786.	103410.	4001.9
#2	2806.8	16912.	103620.	3963.8
#3	2799.8	16941.	104720.	4031.2

Zoom In Zoom Out

Sample Name: CCV Acquired: 4/3/2015 19:46:22 Type: QC
Method: 60102007_042011(v210) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2695	42.16	2.111	2.108	2.064	42.24	2.136	2.108	F2.213
Stddev	.0022	.12	.007	.005	.007	.18	.004	.004	.001
%RSD	.8299	.2865	.3161	.2401	.3477	.4168	.1874	.2082	.0594
#1	.2705	42.26	2.106	2.105	2.070	42.44	2.131	2.103	2.214
#2	.2711	42.03	2.109	2.105	2.056	42.20	2.139	2.111	2.211
#3	.2670	42.18	2.119	2.114	2.066	42.09	2.138	2.110	2.214
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
Value									2.000
Range									10.00%

Elem	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.131	41.62	F44.47	42.96	2.131	2.061	41.64	2.161	F2.313
Stddev	.002	.22	.25	.09	.012	.005	.07	.005	.006
%RSD	.1147	.5215	.5596	.2020	.5686	.2483	.1565	.2189	.2803
#1	2.129	41.78	44.46	43.06	2.145	2.056	41.68	2.156	2.305
#2	2.134	41.37	44.23	42.91	2.122	2.065	41.56	2.164	2.316
#3	2.132	41.71	44.73	42.92	2.125	2.063	41.67	2.164	2.317
Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
Value			40.00						2.000
Range			10.00%						10.00%

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.036	2.155	2.100	2.184	2.148	2.108	F2.227	F2.205	F2.283
Stddev	.004	.003	.004	.006	.010	.002	.002	.003	.005
%RSD	.2129	.1326	.1839	.2796	.4838	.0766	.0898	.1502	.2288
#1	2.034	2.157	2.096	2.177	2.151	2.106	2.225	2.201	2.277
#2	2.034	2.156	2.102	2.188	2.137	2.109	2.226	2.206	2.285
#3	2.041	2.152	2.102	2.187	2.157	2.108	2.229	2.207	2.286
Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Fail	Chk Fail
Value							2.000	2.000	2.000
Range							10.00%	10.00%	10.00%

Zoom In Zoom Out

Sample Name: CCV Acquired: 4/3/2015 19:46:22 Type: QC
Method: 60102007_042011(v210) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2616.2	8145.8	51200.	1969.7
Stddev	7.9	22.4	127.	32.8
%RSD	.30356	.27458	.24718	1.6630
#1	2619.8	8161.7	51315.	1934.5
#2	2621.8	8155.5	51219.	1975.4
#3	2607.2	8120.2	51065.	1999.3

Zoom In Zoom Out

Sample Name: CCB Acquired: 4/3/2015 19:50:52 Type: QC
Method: 60102007_042011(v210) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F.0033	-.0237	.0010	.0002	-.0001	-.0068	.0001	.0000
Stddev	.0004	.0335	.0009	.0012	.0001	.0014	.0000	.0001
%RSD	11.19	141.6	94.88	577.6	152.9	21.32	53.33	419.9
#1	.0030	.0073	.0017	.0012	.0001	-.0084	.0001	.0001
#2	.0031	-.0190	.0012	.0007	-.0001	-.0061	.0000	-.0001
#3	.0037	-.0592	-.0001	-.0012	-.0002	-.0058	.0000	.0001
Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	.0010							
Low Limit	-.0010							

Elem	Cr2677	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0005	-.0001	.0173	F-.5030	.0308	.0002	F.0026	-.1010
Stddev	.0003	.0006	.0156	.0220	.0671	.0001	.0005	.0251
%RSD	58.83	735.6	90.58	4.368	217.9	48.60	18.34	24.84
#1	-.0002	-.0002	.0353	-.4886	.0674	.0003	.0031	-.0748
#2	-.0008	.0006	.0069	-.5283	.0716	.0003	.0025	-.1248
#3	-.0005	-.0006	.0096	-.4922	-.0466	.0001	.0022	-.1034
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit				.5000			.0010	
Low Limit				-.5000			-.0010	

Elem	Ni2316	Pb2203	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0004	F-.0017	.0015	F-.0039	.0010	.0007	-.0001	.0010
Stddev	.0003	.0002	.0008	.0015	.0010	.0003	.0003	.0001
%RSD	75.86	9.913	50.72	37.85	99.40	45.60	309.4	14.25
#1	.0007	-.0017	.0023	-.0023	.0021	.0009	-.0001	.0012
#2	.0005	-.0018	.0013	-.0051	.0008	.0009	.0002	.0009
#3	.0001	-.0015	.0008	-.0044	.0001	.0003	-.0004	.0009
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Fail	None	Chk Pass	Chk Pass	Chk Pass
High Limit		.0010		.0020				
Low Limit		-.0010		-.0020				

Zoom In Zoom Out

Sample Name: CCB Acquired: 4/3/2015 19:50:52 Type: QC
Method: 60102007_042011(v210) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm
Avg	-.0017	.0000	.0002
Stddev	.0005	.001	.0001
%RSD	32.73	2140.	26.72
#1	-.0017	.0009	.0003
#2	-.0011	.0000	.0002
#3	-.0022	-.0011	.0003
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2993.7	8557.6	53333.	2006.0
Stddev	4.6	18.7	353.	21.0
%RSD	.15417	.21822	.66165	1.0462
#1	2993.7	8557.1	52942.	1985.4
#2	2998.3	8576.5	53627.	2005.3
#3	2989.0	8539.1	53431.	2027.3

Zoom In Zoom Out

Sample Name: FA23243-33 Acquired: 4/3/2015 19:55:19 Type: Unk
Method: 60102007_042011(v210) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)
Avg	-.0037	119.6	.0329	.8582	.0056	142.1	.0005	.0100
Stddev	.0001	.2	.0008	.0032	.0000	1.2	.0000	.0001
%RSD	3.445	.1839	2.549	.3676	.3961	.8548	1.879	.5383
#1	-.0036	119.5	.0325	.8546	.0056	142.8	.0005	.0099
#2	-.0038	119.5	.0323	.8603	.0056	140.7	.0005	.0101
#3	-.0037	119.9	.0338	.8598	.0056	142.9	.0005	.0100

Elem	Cr2677	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)
Avg	.2405	.0008	56.21	1.271	17.60	.1340	.0027	2.031
Stddev	.0009	.0002	.14	.015	.03	.0002	.0001	.008
%RSD	.3570	25.08	.2562	1.154	.1769	.1764	3.360	.3797
#1	.2400	.0006	56.21	1.268	17.63	.1340	.0026	2.029
#2	.2415	.0010	56.07	1.287	17.57	.1342	.0026	2.025
#3	.2399	.0008	56.36	1.259	17.59	.1338	.0028	2.040

Elem	Ni2316	Pb2203	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)
Avg	.0393	.2825	-.0042	.0067	1.787	.0098	2.432	.1714
Stddev	.0001	.0033	.0008	.0006	.004	.0002	.005	.0004
%RSD	.2529	1.181	18.36	8.988	.2161	1.903	.2112	.2065
#1	.0392	.2864	-.0034	.0074	1.787	.0096	2.426	.1714
#2	.0392	.2804	-.0045	.0063	1.792	.0100	2.433	.1717
#3	.0394	.2808	-.0049	.0065	1.784	.0098	2.436	.1710

Elem	Tl1908	V_2924	Zn2062
IS Ref	(In2306)	(Y_3600)	(Y_2243)
Avg	F-.0163	.1358	.0556
Stddev	.0011	.0005	.0001
%RSD	6.758	.3349	.1167
#1	-.0150	.1357	.0556
#2	-.0168	.1362	.0556
#3	-.0170	.1353	.0557

Zoom In Zoom Out

Sample Name: FA23243-33 Acquired: 4/3/2015 19:55:19 Type: Unk
Method: 60102007_042011(v210) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	2631.5	23007.	141910.	5589.5
Stddev	7.1	32.	1204.	73.3
%RSD	.26878	.13894	.84860	1.3122
#1	2625.6	23042.	140870.	5539.4
#2	2639.3	22979.	141640.	5673.7
#3	2629.5	23000.	143230.	5555.5

Zoom In
Zoom Out

Sample Name: FA23001-29R Acquired: 4/3/2015 19:59:45 Type: Unk
Method: 60102007_042011(v210) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	.0033	29.11	.0480	.1192	.0007	112.0	.0043	.0058	.1166	.2903
Stddev	.0007	.08	.0004	.0011	.0002	.1	.0001	.0000	.0007	.0001
%RSD	22.27	.2602	.8021	.9209	24.43	.1205	2.219	.7294	.6323	.0499
#1	.0031	29.20	.0476	.1196	.0005	112.1	.0044	.0058	.1167	.2902
#2	.0027	29.08	.0481	.1180	.0007	111.9	.0044	.0058	.1173	.2903
#3	.0041	29.06	.0484	.1201	.0008	112.1	.0042	.0058	.1158	.2905

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	26.75	1.019	5.373	1.548	.0045	.6634	.0336	.1342	.0029	.0026
Stddev	.10	.059	.031	.005	.0004	.0120	.0002	.0006	.0009	.0026
%RSD	.3593	5.736	.5714	.3347	9.123	1.808	.7250	.4323	32.12	99.77
#1	26.85	1.005	5.408	1.553	.0050	.6766	.0337	.1336	.0033	-.0003
#2	26.66	1.084	5.351	1.545	.0041	.6532	.0338	.1347	.0034	.0033
#3	26.75	.9694	5.361	1.544	.0045	.6604	.0333	.1343	.0018	.0046

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	1.987	.0296	.5029	.2183	-.0031	.0418	.5962
Stddev	.006	.0004	.0018	.0005	.0005	.0004	.0021
%RSD	.3042	1.404	.3511	.2402	15.78	.8711	.3465
#1	1.993	.0293	.5049	.2188	-.0036	.0420	.5986
#2	1.981	.0296	.5023	.2181	-.0026	.0421	.5948
#3	1.988	.0301	.5016	.2178	-.0033	.0414	.5953

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	2868.5	9127.2	56136.	2136.4
Stddev	20.3	73.1	597.	13.9
%RSD	.70905	.80086	1.0627	.65162
#1	2845.0	9044.6	55492.	2148.3
#2	2881.1	9153.6	56247.	2139.9
#3	2879.4	9183.5	56669.	2121.1

Zoom In
Zoom Out

Sample Name: FA23001-30R Acquired: 4/3/2015 20:04:09 Type: Unk
Method: 60102007_042011(v210) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	.0015	33.84	.0256	.1183	.0011	257.2	.0008	.0040	.0557	.1180
Stddev	.0008	.28	.0012	.0012	.0002	2.3	.0000	.0001	.0006	.0005
%RSD	55.58	.8338	4.750	.9885	15.05	.8998	4.121	2.533	1.019	.4107
#1	.0005	33.54	.0269	.1172	.0012	254.9	.0008	.0041	.0553	.1184
#2	.0019	33.89	.0244	.1182	.0009	257.2	.0008	.0039	.0555	.1182
#3	.0020	34.10	.0256	.1195	.0011	259.5	.0009	.0041	.0564	.1175

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	15.84	.7300	1.870	.2460	.0012	1.686	.0292	.0612	.0019	.0020
Stddev	.15	.0233	.026	.0008	.0000	.018	.0001	.0013	.0010	.0016
%RSD	.9277	3.193	1.391	.3274	.8075	1.085	.3641	2.057	54.25	79.62
#1	15.69	.7034	1.899	.2463	.0012	1.685	.0291	.0621	.0014	.0004
#2	15.85	.7401	1.863	.2451	.0012	1.705	.0292	.0616	.0012	.0036
#3	15.99	.7466	1.849	.2466	.0012	1.669	.0293	.0597	.0031	.0019

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	2.419	.0224	1.356	.3002	-.0041	.1125	.1029
Stddev	.001	.0005	.011	.0006	.0013	.0007	.0003
%RSD	.0277	2.272	.8242	.1995	31.82	.6279	.2448
#1	2.418	.0229	1.344	.3003	-.0026	.1120	.1032
#2	2.419	.0223	1.356	.2996	-.0051	.1133	.1029
#3	2.419	.0219	1.367	.3008	-.0046	.1121	.1027

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	2756.8	9340.8	57817.	2240.5
Stddev	2.9	12.4	401.	33.1
%RSD	.10375	.13292	.69321	1.4778
#1	2759.2	9347.1	57450.	2272.0
#2	2753.6	9326.5	58244.	2206.0
#3	2757.6	9348.9	57756.	2243.7

Zoom In
Zoom Out

Sample Name: FA23001-31R Acquired: 4/3/2015 20:08:35 Type: Unk
Method: 60102007_042011(v210) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)
Avg	.0012	59.93	.0437	.1887	.0017	289.3	.0049	.0086	.1362
Stddev	.0006	.34	.0013	.0011	.0001	1.0	.0001	.0001	.0008
%RSD	46.11	.5716	3.078	.5744	3.295	.3341	1.342	.8799	.5628
#1	.0009	60.20	.0433	.1893	.0017	290.0	.0049	.0085	.1370
#2	.0008	60.04	.0426	.1875	.0017	289.6	.0048	.0086	.1362
#3	.0018	59.55	.0452	.1894	.0016	288.2	.0049	.0086	.1355

Elem	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
IS Ref	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)
Avg	F5.205	23.68	1.895	3.372	.5675	.0106	2.534	.0574	.3242
Stddev	.010	.09	.084	.049	.0008	.0002	.013	.0001	.0005
%RSD	.1846	.3989	4.455	1.440	.1471	2.224	.5190	.2035	.1632
#1	5.208	23.77	1.946	3.349	.5675	.0109	2.548	.0575	.3236
#2	5.212	23.69	1.798	3.427	.5683	.0104	2.522	.0574	.3243
#3	5.194	23.58	1.942	3.339	.5667	.0105	2.534	.0572	.3246

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	.0014	.0056	2.736	.0266	1.440	.3213	-.0057	.1266	.7121
Stddev	.0009	.0026	.002	.0003	.009	.0006	.0006	.0007	.0005
%RSD	61.77	46.08	.0797	.9871	.6522	.1775	11.18	.5611	.0679
#1	.0024	.0083	2.736	.0268	1.451	.3219	-.0055	.1265	.7126
#2	.0009	.0054	2.734	.0266	1.436	.3214	-.0065	.1273	.7116
#3	.0009	.0032	2.739	.0263	1.434	.3207	-.0052	.1259	.7121

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	2707.0	9400.6	58616.	2280.1
Stddev	7.5	15.2	266.	19.6
%RSD	.27827	.16220	.45314	.85813
#1	2713.8	9390.3	58502.	2271.8
#2	2708.4	9418.1	58919.	2266.1
#3	2698.9	9393.4	58426.	2302.5

Zoom In
Zoom Out

Sample Name: FA23001-32R Acquired: 4/3/2015 20:13:01 Type: Unk
Method: 60102007_042011(v210) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	.0025	32.57	.0588	.1633	.0007	362.1	.0063	.0043	.1314	.4161
Stddev	.0008	.13	.0008	.0014	.0002	8.5	.0001	.0001	.0007	.0008
%RSD	30.15	.4060	1.283	.8783	21.12	2.359	1.792	1.404	.5683	.1949
#1	.0034	32.47	.0579	.1631	.0007	352.4	.0064	.0044	.1320	.4167
#2	.0020	32.52	.0590	.1620	.0009	365.4	.0062	.0043	.1306	.4152
#3	.0022	32.72	.0594	.1649	.0006	368.4	.0063	.0044	.1316	.4165

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	16.83	1.416	2.271	1.649	.0061	4.199	.0259	.1289	.0048	.0047
Stddev	.09	.011	.029	.016	.0002	.024	.0001	.0014	.0006	.0011
%RSD	.5467	.7468	1.291	.9378	2.607	.5755	.3716	1.080	13.29	23.49
#1	16.84	1.404	2.239	1.632	.0063	4.201	.0259	.1288	.0056	.0034
#2	16.73	1.420	2.276	1.652	.0060	4.173	.0258	.1304	.0045	.0055
#3	16.91	1.423	2.297	1.662	.0061	4.221	.0259	.1276	.0044	.0052

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	1.668	.0395	1.681	.2061	-.0041	.0315	.8046
Stddev	.002	.0004	.005	.0004	.0011	.0008	.0003
%RSD	.0965	1.127	.2917	.1980	27.52	2.676	.0321
#1	1.669	.0396	1.681	.2061	-.0054	.0321	.8043
#2	1.668	.0390	1.676	.2066	-.0032	.0305	.8046
#3	1.666	.0399	1.686	.2057	-.0037	.0318	.8048

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	2690.7	8715.1	53615.	2112.7
Stddev	1.0	18.5	89.	10.1
%RSD	.03788	.21186	.16641	.47912
#1	2691.0	8693.9	53711.	2120.3
#2	2689.5	8727.1	53598.	2116.6
#3	2691.5	8724.4	53535.	2101.2

Zoom In Zoom Out

Sample Name: FA23001-33R Acquired: 4/3/2015 20:17:35 Type: Unk
Method: 60102007_042011(v210) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)
Avg	.0037	65.99	.1365	.4362	.0021	92.83	.0254	.0181	.5415
Stddev	.0012	.20	.0007	.0006	.0002	.21	.0001	.0001	.0011
%RSD	33.86	.3010	.4866	.1460	8.566	.2312	.1969	.7471	.1969
#1	.0050	65.78	.1366	.4359	.0020	92.66	.0254	.0182	.5423
#2	.0034	65.99	.1357	.4369	.0023	93.07	.0254	.0181	.5419
#3	.0026	66.18	.1370	.4357	.0020	92.77	.0254	.0180	.5403

Elem	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
IS Ref	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)
Avg	1.714	43.05	3.069	4.420	F4.994	.0084	1.767	.0718	.5643
Stddev	.003	.09	.074	.045	.044	.0002	.013	.0001	.0016
%RSD	.1695	.2201	2.427	1.020	.8917	1.868	.7179	.1546	.2784
#1	1.717	42.98	3.146	4.369	5.045	.0082	1.779	.0717	.5660
#2	1.715	43.01	3.064	4.455	4.962	.0084	1.769	.0719	.5628
#3	1.711	43.16	2.997	4.435	4.975	.0085	1.754	.0718	.5641

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	.0084	.0098	2.653	.0443	.8233	.3449	-.0047	.0754	2.927
Stddev	.0007	.0014	.002	.0003	.0013	.0003	.0018	.0003	.001
%RSD	8.293	14.12	.0911	.6575	.1548	.0811	37.16	.3879	.0354
#1	.0090	.0105	2.651	.0446	.8242	.3450	-.0059	.0751	2.926
#2	.0085	.0107	2.656	.0441	.8219	.3445	-.0056	.0754	2.928
#3	.0076	.0082	2.652	.0442	.8239	.3450	-.0027	.0757	2.928

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	2818.6	9254.1	57420.	2224.4
Stddev	2.6	17.4	312.	20.3
%RSD	.09310	.18798	.54290	.91401
#1	2815.6	9274.2	57463.	2247.7
#2	2819.7	9243.1	57709.	2210.3
#3	2820.5	9245.1	57090.	2215.2

Zoom In Zoom Out

Sample Name: CRIA Acquired: 4/3/2015 20:22:08 Type: Unk
Method: 60102007_042011(v210) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	.0137	.2187	.0115	.2064	.0047	1.031	.0050	.0515	.0100	.0267
Stddev	.0008	.0145	.0006	.0009	.0001	.004	.0000	.0001	.0006	.0007
%RSD	5.807	6.640	5.192	.4537	3.061	.4030	.1609	.2863	5.647	2.504
#1	.0133	.2159	.0109	.2071	.0047	1.032	.0050	.0514	.0101	.0262
#2	.0147	.2058	.0121	.2054	.0048	1.034	.0050	.0516	.0105	.0275
#3	.0133	.2344	.0114	.2069	.0045	1.026	.0051	.0514	.0094	.0265

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	.3102	10.34	5.296	.0163	.0479	10.32	.0433	.0043	.0047	.0069
Stddev	.0072	.06	.032	.0001	.0002	.05	.0001	.0002	.0016	.0019
%RSD	2.315	.5675	.6011	.5569	.3651	.4443	.1623	4.110	34.54	28.00
#1	.3185	10.40	5.311	.0164	.0481	10.27	.0432	.0041	.0042	.0048
#2	.3061	10.28	5.317	.0164	.0477	10.33	.0434	.0044	.0033	.0087
#3	.3060	10.33	5.259	.0162	.0480	10.36	.0434	.0045	.0065	.0073

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	.0671	.0540	.0103	.0103	.0068	.0513	.0233
Stddev	.0002	.0003	.0002	.0000	.0010	.0002	.0002
%RSD	.3702	.5466	1.856	.1762	15.39	.3041	.6463
#1	.0668	.0537	.0104	.0102	.0066	.0511	.0235
#2	.0672	.0541	.0105	.0103	.0079	.0514	.0232
#3	.0672	.0543	.0101	.0103	.0059	.0512	.0233

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	2888.2	8532.6	53441.	2000.2
Stddev	7.2	10.4	275.	14.1
%RSD	.25042	.12132	.51462	.70447
#1	2895.0	8544.5	53505.	1987.6
#2	2889.0	8527.5	53140.	2015.4
#3	2880.6	8525.7	53679.	1997.5

Zoom In Zoom Out

Sample Name: ICSA Acquired: 4/3/2015 20:26:34 Type: Unk
Method: 60102007_042011(v210) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)
Avg	.0026	F525.6	-.0006	-.0006	-.0002	F506.1	-.0010	.0000	-.0003
Stddev	.0011	1.5	.0033	.0001	.0002	4.0	.0001	.000	.0003
%RSD	42.34	.2798	539.7	10.42	114.5	.7951	6.771	138.1	112.0
#1	.0024	523.9	.0017	-.0005	-.0001	503.1	-.0010	.0000	-.0001
#2	.0038	526.7	.0009	-.0006	-.0005	504.6	-.0010	.0000	-.0006
#3	.0016	526.1	-.0044	-.0005	.0000	510.7	-.0009	-.0001	-.0001

Elem	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
IS Ref	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)
Avg	-.0039	190.1	-.4029	F514.7	-.0016	.0002	.0732	.0000	.0145
Stddev	.0005	.8	.0096	1.1	.0001	.0004	.0274	.0004	.0029
%RSD	11.65	.4410	2.382	.2158	7.916	216.3	37.41	1229.	20.17
#1	-.0044	189.2	-.4011	513.5	-.0016	-.0003	.0499	.0003	.0142
#2	-.0038	190.7	-.4133	515.7	-.0014	.0003	.0663	-.0004	.0175
#3	-.0036	190.5	-.3943	514.9	-.0016	.0004	.1034	.0002	.0117

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	.0022	.0001	.0495	.0011	.0009	-.0004	-.0013	-.0006	.0014
Stddev	.0018	.0013	.0012	.0001	.0001	.0002	.0012	.0003	.0001
%RSD	85.17	1724.	2.399	13.41	10.59	36.46	88.87	61.42	7.573
#1	.0027	.0011	.0500	.0010	.0008	-.0006	-.0005	-.0008	.0014
#2	.0037	-.0014	.0482	.0010	.0010	-.0003	-.0008	-.0007	.0015
#3	.0001	.0005	.0504	.0012	.0010	-.0003	-.0026	-.0002	.0013

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	2492.6	7782.5	47452.	1909.6
Stddev	9.2	28.3	206.	10.2
%RSD	.36816	.36406	.43498	.53186
#1	2485.8	7784.9	47515.	1913.1
#2	2503.1	7809.5	47222.	1898.1
#3	2489.0	7753.0	47620.	1917.5

Zoom In Zoom Out

Sample Name: ICSAB Acquired: 4/3/2015 20:31:08 Type: Unk
Method: 60102007_042011(v210) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)
Avg	F1.059	F511.7	1.081	.5421	.5183	496.0	.9674	.4955	.5311
Stddev	.001	1.6	.002	.0029	.0016	10.1	.0008	.0005	.0014
%RSD	.0624	.3037	.1417	.5320	.3125	2.033	.0824	.1008	.2552
#1	1.058	510.1	1.083	.5454	.5164	484.7	.9682	.4959	.5299
#2	1.059	511.7	1.080	.5401	.5188	504.3	.9666	.4955	.5308
#3	1.059	513.2	1.081	.5407	.5195	498.8	.9673	.4949	.5326

Elem	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
IS Ref	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)
Avg	.5486	189.4	-.4114	F504.2	.5271	.9630	.0669	1.026	1.090
Stddev	.0012	.7	.0705	1.6	.0004	.0006	.0167	.002	.006
%RSD	.2173	.3477	17.12	.3256	.0695	.0583	24.99	.1663	.5146
#1	.5479	188.8	-.4163	502.4	.5267	.9628	.0549	1.025	1.085
#2	.5479	189.4	-.4793	504.5	.5274	.9626	.0598	1.028	1.090
#3	.5500	190.1	-.3387	505.7	.5271	.9636	.0860	1.026	1.096

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	1.050	1.075	.1137	1.035	1.084	1.030	1.039	.5217	1.080
Stddev	.004	.004	.0009	.002	.004	.000	.003	.0014	.002
%RSD	.3847	.3706	.7822	.1549	.3293	.0246	.3309	.2665	.1455
#1	1.051	1.070	.1129	1.035	1.080	1.030	1.037	.5201	1.078
#2	1.053	1.077	.1147	1.034	1.084	1.030	1.037	.5222	1.079
#3	1.045	1.077	.1135	1.037	1.087	1.030	1.043	.5228	1.081

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	2461.1	7775.9	47958.	1939.3
Stddev	4.7	10.6	80.	13.3
%RSD	.19175	.13612	.16727	.68439
#1	2466.2	7783.0	48051.	1953.7
#2	2460.0	7781.0	47910.	1927.5
#3	2457.0	7763.7	47914.	1936.8

Zoom In Zoom Out

Sample Name: CCV Acquired: 4/3/2015 20:35:39 Type: QC
Method: 60102007_042011(v210) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2629	41.65	2.047	2.082	2.035	41.60	2.071	2.051	2.160
Stddev	.0010	.31	.005	.017	.015	.21	.004	.003	.006
%RSD	.3856	.7537	.2672	.8317	.7431	.5006	.1694	.1362	.2853
#1	.2633	42.00	2.048	2.101	2.052	41.84	2.073	2.053	2.162
#2	.2617	41.54	2.041	2.076	2.026	41.46	2.067	2.048	2.153
#3	.2636	41.40	2.052	2.068	2.026	41.49	2.072	2.051	2.164
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value									
Range									

Elem	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.085	40.54	43.74	42.20	2.080	2.008	41.18	2.106	F2.262
Stddev	.007	.36	.28	.27	.023	.004	.27	.003	.005
%RSD	.3166	.8920	.6325	.6398	1.106	.1772	.6618	.1241	.2034
#1	2.085	40.96	44.04	42.46	2.065	2.008	41.49	2.109	2.258
#2	2.078	40.33	43.70	42.21	2.069	2.004	41.05	2.104	2.267
#3	2.091	40.34	43.49	41.92	2.107	2.011	40.99	2.105	2.260
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
Value									2.000
Range									10.00%

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.976	2.093	2.038	2.124	2.128	2.055	2.184	2.165	F2.227
Stddev	.007	.003	.005	.004	.017	.002	.008	.008	.002
%RSD	.3322	.1571	.2373	.1675	.7990	.0822	.3647	.3638	.0982
#1	1.978	2.093	2.043	2.126	2.146	2.054	2.183	2.169	2.229
#2	1.968	2.089	2.033	2.120	2.126	2.054	2.192	2.155	2.225
#3	1.981	2.096	2.038	2.127	2.112	2.057	2.177	2.169	2.227
Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
Value									2.000
Range									10.00%

Zoom In Zoom Out

Sample Name: CCV Acquired: 4/3/2015 20:35:39 Type: QC
Method: 60102007_042011(v210) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2646.9	8260.2	51408.	1974.7
Stddev	7.9	15.7	255.	6.9
%RSD	.29663	.18964	.49523	.34748
#1	2643.1	8244.0	51414.	1968.2
#2	2641.7	8261.4	51660.	1974.0
#3	2656.0	8275.3	51151.	1981.9

Zoom In Zoom Out

Sample Name: CCB Acquired: 4/3/2015 20:40:10 Type: QC
Method: 60102007_042011(v210) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F.0024	F.0250	.0016	.0004	.0000	-.0076	.0001	.0000
Stddev	.0006	.0251	.0019	.0006	.0002	.0036	.0000	.0001
%RSD	26.59	100.3	124.4	149.7	775.7	47.01	52.43	233.7
#1	.0030	.0036	-.0006	.0010	-.0002	-.0066	.0001	.0000
#2	.0024	.0189	.0032	.0000	.0000	-.0115	.0000	.0001
#3	.0017	.0526	.0020	.0001	.0003	-.0046	.0000	.0000
Check ?	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	.0010	.0250						
Low Limit	-.0010	-.0250						

Elem	Cr2677	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0005	-.0005	.0187	F-.5232	.0078	.0002	F.0027	-.1349
Stddev	.0002	.0003	.0085	.0849	.0495	.0001	.0004	.0191
%RSD	38.83	63.98	45.20	16.23	639.0	23.63	14.11	14.19
#1	-.0007	-.0009	.0279	-.5266	.0642	.0002	.0030	-.1171
#2	-.0005	-.0005	.0171	-.6064	-.0288	.0003	.0028	-.1325
#3	-.0003	-.0002	.0112	-.4366	-.0121	.0002	.0023	-.1551
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit				.5000			.0010	
Low Limit				-.5000			-.0010	

Elem	Ni2316	Pb2203	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0004	-.0005	F.0024	-.0020	.0006	.0007	.0000	.0012
Stddev	.0002	.0012	.0013	.0010	.0011	.0001	.000	.0000
%RSD	48.63	215.7	57.18	51.05	178.5	19.33	602.6	1.908
#1	.0003	-.0013	.0011	-.0022	.0004	.0005	.0000	.0012
#2	.0006	-.0011	.0022	-.0009	.0018	.0007	-.0003	.0012
#3	.0003	.0008	.0038	-.0028	-.0004	.0008	.0002	.0012
Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass
High Limit			.0020					
Low Limit			-.0020					

Zoom In Zoom Out

Sample Name: CCB Acquired: 4/3/2015 20:40:10 Type: QC
Method: 60102007_042011(v210) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm
Avg	-.0014	-.0004	.0002
Stddev	.0009	.0003	.0001
%RSD	65.74	80.20	29.04
#1	-.0006	-.0006	.0002
#2	-.0011	.0000	.0002
#3	-.0024	-.0005	.0003
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3056.7	8791.2	54146.	2067.3
Stddev	11.8	38.1	277.	19.9
%RSD	.38461	.43374	.51102	.96116
#1	3043.2	8750.2	54038.	2088.0
#2	3064.6	8825.6	53939.	2048.4
#3	3062.2	8797.8	54460.	2065.4

Element, Wavelength and Order	Use?	# IECs	IEC	k1	k2	Calc-in-fit?
Ag 328.068 {103}	☒	2	V	-0.005817	0.000000	No
			Fe	0.000005	0.000000	No
Al 396.152 { 85}	☒	1	Mo	0.040330	0.000000	No
As 189.042 {478}	☒	4	Fe	-0.000091	0.000000	No
			Cr	-0.000653	0.000000	No
			Mo	0.000444	0.000000	No
			Al	0.000001	0.000000	No
Ba 455.403 { 74}	☒	1	Fe	0.000007	0.000000	No
Be 313.042 {108}	☒	2	V	0.000625	0.000000	No
			Ti	-0.000289	0.000000	No
Ca 317.933 {106}	☒	None				
Cd 226.502 {449}	☒	4	Fe	0.000055	0.000000	No
			Ca	-0.000000	0.000000	No
			Al	-0.000002	0.000000	No
			Ti	0.000103	0.000000	No
Co 228.616 {447}	☒	3	Mo	-0.001220	0.000000	No
			Ti	0.002210	0.000000	No
			Fe	0.000001	0.000000	No
Cr 267.716 {126}	☒	4	Al	0.000001	0.000000	No
			Fe	-0.000002	0.000000	No
			Ca	-0.000000	0.000000	No
			Cd	-0.000120	0.000000	No
Cu 324.754 {104}	☒	10	Mo	0.000189	0.000000	No
			Sn	-0.000012	0.000000	No
			V	-0.000158	0.000000	No
			Al	0.000003	0.000000	No
			Mg	0.000003	0.000000	No
			Co	-0.000547	0.000000	No
			Cd	0.000190	0.000000	No
			Fe	-0.000176	0.000000	No
			Ca	0.000001	0.000000	No
			Ti	-0.000268	0.000000	No
Fe 259.940 {130}	☒	None				
In 230.606 {446}*	☒	None				
K 766.490 { 44}	☒	None				
Mg 279.079 {121}	☒	None				
Mn 257.610 {131}	☒	2	Fe	0.000001	0.000000	No
			Mg	0.000000	0.000000	No
Mo 202.030 {467}	☒	1	Fe	-0.000002	0.000000	No
Na 589.592 { 57}	☒	None				
Ni 231.604 {445}	☒	7	Fe	-0.000037	0.000000	No
			Co	0.000112	0.000000	No
			Mo	0.000980	0.000000	No
			Sb	-0.000120	0.000000	No
			Al	-0.000000	0.000000	No
			Be	-0.000304	0.000000	No
			Tl	0.000172	0.000000	No
Pb 220.353 {453}	☒	8	Al	0.000499	0.000000	No
			Fe	-0.000514	0.000000	No
			Mo	-0.002189	0.000000	No
			Cu	0.000467	0.000000	No
			Ti	0.000036	0.000000	No
			Si	0.000178	0.000000	No
			Ca	-0.000005	0.000000	No
			Cr	-0.000260	0.000000	No
Sb 206.833 {463}	☒	11	Fe	0.000078	0.000000	No
			Cr	0.011486	0.000000	No

Element, Wavelength and Order	Use?	# IECs	IEC	k1	k2	Calc-in-fit?
			Mo	-0.003944	0.000000	No
			V	-0.000441	0.000000	No
			Sn	-0.008695	0.000000	No
			Ti	0.000278	0.000000	No
			Ca	-0.000009	0.000000	No
			Ni	-0.000818	0.000000	No
			Al	0.000006	0.000000	No
			Mn	-0.000133	0.000000	No
			Mg	-0.000000	0.000000	No
Se 196.090 {472}	X	12	Fe	0.000000	0.000000	No
			Ca	0.000004	0.000000	No
			Mn	0.000331	0.000000	No
			Mo	0.000111	0.000000	No
			Al	-0.000025	0.000000	No
			V	0.000000	0.000000	No
			Zn	0.000000	0.000000	No
			Sr	-0.000111	0.000000	No
			As	0.000125	0.000000	No
			Cd	-0.000250	0.000000	No
			Mg	0.000001	0.000000	No
			Cr	-0.000326	0.000000	No
Si 212.412 {459}	X	1	Mo	0.019120	0.000000	No
Sn 189.989 {477}	X	None				
Sr 407.771 { 83}	X	1	Ca	0.000012	0.000000	No
Ti 334.941 {101}	X	1	Ca	-0.000013	0.000000	No
Tl 190.856 {477}	X	10	Co	0.004099	0.000000	No
			Fe	0.000044	0.000000	No
			Al	-0.000018	0.000000	No
			Ba	-0.000051	0.000000	No
			Ti	-0.000648	0.000000	No
			Sb	0.000167	0.000000	No
			Ca	-0.000004	0.000000	No
			Cr	0.000340	0.000000	No
			Mg	-0.000001	0.000000	No
			V	0.000015	0.000000	No
V 292.402 {115}	X	5	Fe	0.000016	0.000000	No
			Cr	-0.003634	0.000000	No
			Mo	-0.009536	0.000000	No
			Ti	0.000303	0.000000	No
			Mn	-0.000333	0.000000	No
Y 224.306 {450}*	X	None				
Y 360.073 { 94}*	X	None				
Y 371.030 { 91}*	X	None				
Zn 206.200 {463}	X	5	Cr	-0.001305	0.000000	No
			Al	0.000000	0.000000	No
			Ca	0.000003	0.000000	No
			Fe	0.000000	0.000000	No
			As	0.001105	0.000000	No

	Element, Wavelength and Order	Date of Fit	Date of Cal.	Type of Fit	Weighting	A0	A1	A2	n (Exponent)
	Ag 328.068 {103}	4/3/2015 7:30:13	4/3/2015 7:30:13	Linear	1/Conc	0.002793	0.538527	0.000000	1.000000
	Al 396.152 { 85}	4/3/2015 7:30:13	4/3/2015 7:30:13	Linear	1/Conc	0.007621	0.176051	0.000000	1.000000
	As 189.042 {478}	4/3/2015 7:30:13	4/3/2015 7:30:13	Linear	1/Conc	-0.000255	0.168330	0.000000	1.000000
	Ba 455.403 { 74}	4/3/2015 7:30:13	4/3/2015 7:30:13	Linear	1/Conc	-0.005274	8.332650	0.000000	1.000000
	Be 313.042 {108}	4/3/2015 7:30:13	4/3/2015 7:30:13	Linear	1/Conc	0.001123	8.583669	0.000000	1.000000
	Ca 317.933 {106}	4/3/2015 7:30:13	4/3/2015 7:30:13	Linear	1/Conc	0.008640	0.271314	0.000000	1.000000
	Cd 226.502 {449}	4/3/2015 7:30:13	4/3/2015 7:30:13	Linear	1/Conc	-0.001658	4.872456	0.000000	1.000000
	Co 228.616 {447}	4/3/2015 7:30:13	4/3/2015 7:30:13	Linear	1/Conc	-0.000708	2.402391	0.000000	1.000000
	Cr 267.716 {126}	4/3/2015 7:30:13	4/3/2015 7:30:13	Linear	1/Conc	-0.000523	0.519578	0.000000	1.000000
	Cu 324.754 {104}	4/3/2015 7:30:13	4/3/2015 7:30:13	Linear	1/Conc	0.002530	0.655019	0.000000	1.000000
	Fe 259.940 {130}	4/3/2015 7:30:13	4/3/2015 7:30:13	Linear	1/Conc	0.002903	0.179452	0.000000	1.000000
	In 230.606 {446}*	4/3/2015 7:13:55	5/5/2010 12:30:54	Linear	1/Conc	0.000000	0.000000	0.000000	1.000000
	K 766.490 { 44}	4/3/2015 7:30:13	4/3/2015 7:30:13	Linear	1/Conc	-0.020878	0.106148	0.000000	1.000000
	Mg 279.079 {121}	4/3/2015 7:30:13	4/3/2015 7:30:13	Linear	1/Conc	-0.000275	0.036117	0.000000	1.000000
	Mn 257.610 {131}	4/3/2015 7:30:13	4/3/2015 7:30:13	Linear	1/Conc	0.000788	2.645987	0.000000	1.000000
	Mo 202.030 {467}	4/3/2015 7:30:13	4/3/2015 7:30:13	Linear	1/Conc	0.001304	0.984237	0.000000	1.000000
	Na 589.592 { 57}	4/3/2015 7:30:13	4/3/2015 7:30:13	Linear	1/Conc	-0.060854	0.325943	0.000000	1.000000
	Ni 231.604 {445}	4/3/2015 7:30:13	4/3/2015 7:30:13	Linear	1/Conc	0.001614	1.353710	0.000000	1.000000
	Pb 220.353 {453}	4/3/2015 7:30:13	4/3/2015 7:30:13	Linear	1/Conc	0.000196	0.949221	0.000000	1.000000
	Sb 206.833 {463}	4/3/2015 7:30:13	4/3/2015 7:30:13	Linear	1/Conc	0.001685	0.188416	0.000000	1.000000
	Se 196.090 {472}	4/3/2015 7:30:13	4/3/2015 7:30:13	Linear	1/Conc	-0.000819	0.128491	0.000000	1.000000
	Si 212.412 {459}	4/3/2015 7:30:13	4/3/2015 7:30:13	Linear	1/Conc	0.003795	0.268902	0.000000	1.000000
	Sn 189.989 {477}	4/3/2015 7:30:13	4/3/2015 7:30:13	Linear	1/Conc	0.000839	0.469768	0.000000	1.000000
	Sr 407.771 { 83}	4/3/2015 7:30:13	4/3/2015 7:30:13	Linear	1/Conc	0.004074	12.458447	0.000000	1.000000
	Ti 334.941 {101}	4/3/2015 7:30:13	4/3/2015 7:30:13	Linear	1/Conc	0.003220	1.562343	0.000000	1.000000
	Tl 190.856 {477}	4/3/2015 7:30:13	4/3/2015 7:30:13	Linear	1/Conc	-0.002978	0.314648	0.000000	1.000000
	V 292.402 {115}	4/3/2015 7:30:13	4/3/2015 7:30:13	Linear	1/Conc	-0.000976	0.598882	0.000000	1.000000
	Y 224.306 {450}*	<not fit>	<Never Calibrated>	Linear	1/Conc	0.000000	0.000000	0.000000	1.000000
	Y 360.073 { 94}*	<not fit>	<Never Calibrated>	Linear	1/Conc	0.000000	0.000000	0.000000	1.000000
	Y 371.030 { 91}*	<not fit>	<Never Calibrated>	Linear	1/Conc	0.000000	0.000000	0.000000	1.000000
	Zn 206.200 {463}	4/3/2015 7:30:13	4/3/2015 7:30:13	Linear	1/Conc	0.000967	3.330306	0.000000	1.000000

Element, Wavelength and Order	Correlation	Std Error of Est	Predicted MDL	Predicted MQL	Status	Reslope		QC Norm	
						Slope	Y-int	Slope factor	Offset
Ag 328.068 {103}	0.999992	0.000021	0.000544	0.001813	OK.	1.000000	0.000000	1	0
Al 396.152 { 85}	0.999841	0.005063	0.016710	0.055700	OK.	1.000000	0.000000	1	0
As 189.042 {478}	0.999864	0.000223	0.000933	0.003111	OK.	1.000000	0.000000	1	0
Ba 455.403 { 74}	0.999966	0.005510	0.000456	0.001521	OK.	1.000000	0.000000	1	0
Be 313.042 {108}	0.999932	0.008042	0.000144	0.000480	OK.	1.000000	0.000000	1	0
Ca 317.933 {106}	0.999855	0.007448	0.005229	0.017429	OK.	1.000000	0.000000	1	0
Cd 226.502 {449}	0.999933	0.004541	0.000052	0.000173	OK.	1.000000	0.000000	1	0
Co 228.616 {447}	0.999936	0.002185	0.000118	0.000394	OK.	1.000000	0.000000	1	0
Cr 267.716 {126}	0.999946	0.000434	0.000339	0.001131	OK.	1.000000	0.000000	1	0
Cu 324.754 {104}	0.999963	0.000449	0.000403	0.001342	OK.	1.000000	0.000000	1	0
Fe 259.940 {130}	0.999770	0.006206	0.004191	0.013971	OK.	1.000000	0.000000	1	0
In 230.606 {446}*	0.000000	0.000000	-1.000000	-1.000000	Warnin	1.000000	0.000000	1	0
K 766.490 { 44}	0.999754	0.003790	0.050119	0.167062	OK.	1.000000	0.000000	1	0
Mg 279.079 {121}	0.999842	0.001036	0.026733	0.089112	OK.	1.000000	0.000000	1	0
Mn 257.610 {131}	0.999781	0.004462	0.000061	0.000202	OK.	1.000000	0.000000	1	0
Mo 202.030 {467}	0.999957	0.000736	0.000169	0.000564	OK.	1.000000	0.000000	1	0
Na 589.592 { 57}	0.999864	0.008653	0.017501	0.058337	OK.	1.000000	0.000000	1	0
Ni 231.604 {445}	0.999918	0.001395	0.000212	0.000707	OK.	1.000000	0.000000	1	0
Pb 220.353 {453}	0.999850	0.001322	0.000588	0.001961	OK.	1.000000	0.000000	1	0
Sb 206.833 {463}	0.999917	0.000196	0.001402	0.004673	OK.	1.000000	0.000000	1	0
Se 196.090 {472}	0.999903	0.000144	0.001865	0.006216	OK.	1.000000	0.000000	1	0
Si 212.412 {459}	0.981277	0.004332	0.000687	0.002289	OK.	1.000000	0.000000	1	0
Sn 189.989 {477}	0.999949	0.000384	0.000286	0.000954	OK.	1.000000	0.000000	1	0
Sr 407.771 { 83}	0.999957	0.009288	0.000191	0.000638	OK.	1.000000	0.000000	1	0
Ti 334.941 {101}	0.999872	0.002009	0.000176	0.000587	OK.	1.000000	0.000000	1	0
Tl 190.856 {477}	0.999920	0.000322	0.001006	0.003352	OK.	1.000000	0.000000	1	0
V 292.402 {115}	1.000000	0.000043	0.000370	0.001234	OK.	1.000000	0.000000	1	0
Y 224.306 {450}*	0.000000	0.000000	-1.000000	-1.000000	Warnin	1.000000	0.000000	1	0
Y 360.073 { 94}*	0.000000	0.000000	-1.000000	-1.000000	Warnin	1.000000	0.000000	1	0
Y 371.030 { 91}*	0.000000	0.000000	-1.000000	-1.000000	Warnin	1.000000	0.000000	1	0
Zn 206.200 {463}	0.999926	0.003263	0.000058	0.000193	OK.	1.000000	0.000000	1	0

Zoom In
Zoom Out

Sample Name: Blank Acquired: 4/6/2015 9:31:27 Type: Cal
Method: 60102007_041712(v217) Mode: IR Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.0002	.0025	-.0002	.0112	-.0004	.0079	.0002	.0006	.0002
Stddev	.0001	.0026	.0001	.0035	.0003	.0005	.0001	.0001	.0001
%RSD	23.34	103.7	26.81	31.25	73.74	6.087	54.70	20.23	72.88
#1	.0003	-.0004	-.0002	.0103	-.0001	.0074	.0003	.0007	.0002
#2	.0003	.0032	-.0003	.0082	-.0006	.0078	.0003	.0006	.0001
#3	.0002	.0047	-.0002	.0150	-.0003	.0084	.0001	.0005	.0003

Elem	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.0037	.0032	-.0074	.0001	.0006	.0027	-.0087	.0001	.0000
Stddev	.0001	.0003	.0033	.0002	.0001	.0003	.0008	.0001	.0009
%RSD	3.987	9.504	44.02	135.0	20.14	12.84	9.139	139.8	2313.
#1	.0039	.0030	-.0084	.0000	.0007	.0031	-.0083	.0001	-.0002
#2	.0036	.0035	-.0100	.0001	.0006	.0027	-.0082	.0001	.0011
#3	.0036	.0030	-.0037	.0003	.0004	.0024	-.0096	.0000	-.0008

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.0009	-.0004	.0078	.0006	.0023	.0026	-.0032	-.0002	.0034
Stddev	.0001	.0002	.0003	.0000	.0016	.0001	.0003	.0001	.0003
%RSD	12.48	39.53	3.602	4.525	68.97	2.532	9.193	43.37	8.537
#1	.0008	-.0002	.0077	.0006	.0014	.0026	-.0029	-.0002	.0036
#2	.0010	-.0004	.0081	.0006	.0014	.0026	-.0034	-.0003	.0035
#3	.0008	-.0006	.0076	.0006	.0042	.0025	-.0032	-.0001	.0031

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3147.4	7644.2	46541.	4007.3
Stddev	1.1	4.6	147.	14.7
%RSD	.03581	.06065	.31663	.36637
#1	3146.8	7644.6	46531.	4002.3
#2	3148.7	7648.6	46694.	4023.8
#3	3146.7	7639.3	46400.	3995.8

Zoom In
Zoom Out

Sample Name: LowStd Acquired: 4/6/2015 9:36:00 Type: Cal
Method: 60102007_041712(v217) Mode: IR Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.0345	1.796	.1026	5.490	4.144	2.605	2.641	1.253	.2629	.4078
Stddev	.0001	.010	.0002	.011	.008	.009	.004	.002	.0003	.0013
%RSD	.1656	.5434	.2272	.1924	.1855	.3281	.1487	.1521	.1117	.3266
#1	.0345	1.789	.1024	5.492	4.137	2.599	2.637	1.252	.2631	.4092
#2	.0344	1.792	.1026	5.479	4.143	2.601	2.641	1.253	.2625	.4065
#3	.0344	1.808	.1029	5.500	4.152	2.615	2.645	1.255	.2630	.4076

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1.229	1.572	.2235	1.495	.6323	5.305	.7145	.6196	.1266	.0754
Stddev	.006	.010	.0004	.005	.0015	.013	.0009	.0006	.0001	.0003
%RSD	.4705	.6321	.2004	.3493	.2402	.2516	.1211	.1004	.0688	.4501
#1	1.229	1.561	.2231	1.496	.6305	5.293	.7135	.6191	.1265	.0751
#2	1.223	1.575	.2240	1.490	.6332	5.302	.7151	.6194	.1266	.0754
#3	1.235	1.580	.2234	1.500	.6332	5.320	.7149	.6203	.1267	.0758

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.3163	.2516	9.713	.9835	.2989	.3602	1.604
Stddev	.0005	.0004	.032	.0032	.0010	.0010	.002
%RSD	.1720	.1785	.3308	.3246	.3503	.2793	.1507
#1	.3157	.2511	9.701	.9834	.2983	.3609	1.602
#2	.3168	.2520	9.688	.9804	.3001	.3591	1.603
#3	.3164	.2517	9.749	.9868	.2983	.3607	1.607

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2918.3	7574.4	46396.	4052.3
Stddev	4.9	20.5	87.	26.8
%RSD	.16667	.27026	.18785	.66166
#1	2921.0	7594.5	46309.	4083.1
#2	2921.2	7575.2	46484.	4034.8
#3	2912.7	7553.6	46395.	4038.8

Zoom In
Zoom Out

Sample Name: MidStd Acquired: 4/6/2015 9:39:10 Type: Cal
Method: 60102007_041712(v217) Mode: IR Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.1323	7.296	.4047	21.65	16.14	10.45	10.20	4.794	1.027	1.578
Stddev	.0005	.030	.0006	.13	.06	.04	.01	.001	.002	.005
%RSD	.3794	.4140	.1395	.6088	.3626	.3899	.0614	.0241	.1643	.3085
#1	.1318	7.316	.4041	21.80	16.19	10.47	10.20	4.794	1.026	1.580
#2	.1327	7.262	.4052	21.56	16.08	10.40	10.19	4.793	1.026	1.573
#3	.1325	7.311	.4048	21.59	16.15	10.47	10.20	4.796	1.029	1.582

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5.039	6.444	.9054	5.814	2.409	21.53	2.729	2.488	.4901	.2960
Stddev	.016	.020	.0044	.011	.008	.09	.002	.005	.0004	.0003
%RSD	.3197	.3171	.4869	.1870	.3416	.4154	.0699	.2025	.0911	.1115
#1	5.051	6.453	.9057	5.803	2.401	21.61	2.730	2.492	.4896	.2964
#2	5.021	6.420	.9008	5.815	2.410	21.43	2.729	2.483	.4902	.2958
#3	5.046	6.458	.9096	5.825	2.417	21.54	2.726	2.490	.4905	.2959

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.8713	.9316	36.82	3.806	1.184	1.377	6.165
Stddev	.0004	.0021	.18	.002	.004	.001	.007
%RSD	.0450	.2204	.4928	.0427	.3366	.0694	.1221
#1	.8716	.9336	37.00	3.804	1.186	1.377	6.174
#2	.8708	.9317	36.63	3.805	1.179	1.376	6.164
#3	.8713	.9295	36.83	3.807	1.187	1.378	6.159

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2630.0	7274.3	43952.	3962.1
Stddev	6.4	13.0	128.	22.4
%RSD	.24499	.17871	.29195	.56568
#1	2622.8	7260.2	44071.	3967.0
#2	2635.3	7276.8	43968.	3981.7
#3	2631.8	7285.8	43816.	3937.7

Zoom In
Zoom Out

Sample Name: HighStd Acquired: 4/6/2015 9:42:20 Type: Cal
Method: 60102007_041712(v217) Mode: IR Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.2686	14.86	.8286	44.11	32.45	21.04	20.45	9.637	2.075	3.213
Stddev	.0007	.09	.0022	.25	.15	.10	.04	.016	.001	.003
%RSD	.2479	.5876	.2711	.5741	.4518	.4900	.1786	.1704	.0542	.1046
#1	.2681	14.96	.8262	44.40	32.62	21.15	20.43	9.625	2.074	3.210
#2	.2684	14.79	.8289	43.94	32.35	20.95	20.42	9.631	2.074	3.213
#3	.2693	14.83	.8307	43.98	32.39	21.01	20.49	9.656	2.076	3.216

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	10.01	13.11	1.821	11.59	4.847	43.61	5.469	5.160	1.005	.6034
Stddev	.06	.06	.006	.01	.015	.22	.011	.015	.003	.0004
%RSD	.5722	.4658	.3096	.0998	.3035	.4977	.2006	.2944	.2592	.0603
#1	10.07	13.18	1.827	11.59	4.834	43.86	5.460	5.157	1.003	.6030
#2	9.960	13.09	1.817	11.58	4.845	43.48	5.467	5.146	1.005	.6033
#3	10.00	13.06	1.818	11.60	4.863	43.48	5.481	5.176	1.008	.6037

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1.367	1.833	74.13	7.575	2.403	2.773	12.39
Stddev	.003	.004	.37	.053	.009	.004	.02
%RSD	.2075	.2274	.4944	.6967	.3618	.1613	.1999
#1	1.364	1.830	74.55	7.521	2.403	2.773	12.38
#2	1.366	1.831	73.89	7.579	2.395	2.769	12.38
#3	1.370	1.838	73.96	7.626	2.412	2.778	12.42

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2420.9	6947.4	42320.	3890.2
Stddev	8.9	19.0	95.	19.7
%RSD	.36864	.27349	.22416	.50601
#1	2423.2	6962.3	42382.	3868.2
#2	2428.5	6953.8	42368.	3906.1
#3	2411.1	6926.0	42211.	3896.4

Zoom In
Zoom Out

Sample Name: HSTD Acquired: 4/6/2015 9:45:58 Type: QC
Method: 60102007_041712(v217) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4992	80.07	4.014	3.988	3.968	79.63	3.976	3.978	3.962	3.992
Stddev	.0022	.39	.001	.017	.023	.35	.009	.007	.005	.012
%RSD	.4433	.4846	.0306	.4179	.5694	.4443	.2296	.1858	.1158	.2983
#1	.4978	80.51	4.016	4.005	3.993	80.03	3.972	3.973	3.958	3.978
#2	.5017	79.78	4.014	3.972	3.951	79.35	3.970	3.974	3.967	4.000
#3	.4980	79.93	4.014	3.987	3.959	79.52	3.987	3.986	3.962	3.997
Check ?	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass
Value										
Range										

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	79.35	80.02	79.85	3.922	3.988	79.42	3.970	4.036	4.018	4.005
Stddev	.26	.42	.40	.006	.005	.29	.002	.016	.005	.003
%RSD	.3310	.5279	.5022	.1601	.1326	.3680	.0448	.3864	.1350	.0699
#1	79.64	80.46	80.25	3.916	3.984	79.76	3.968	4.023	4.012	4.005
#2	79.13	79.61	79.44	3.922	3.985	79.23	3.969	4.031	4.019	4.003
#3	79.27	79.99	79.87	3.928	3.994	79.27	3.972	4.053	4.023	4.008
Check ?	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass
Value										
Range										

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	3.472	3.944	3.963	3.946	3.995	3.967	3.973
Stddev	.004	.001	.023	.021	.014	.001	.007
%RSD	.1231	.0330	.5879	.5252	.3464	.0195	.1769
#1	3.467	3.945	3.990	3.928	3.983	3.966	3.970
#2	3.473	3.943	3.945	3.968	3.992	3.968	3.969
#3	3.476	3.945	3.956	3.941	4.010	3.968	3.982
Check ?	None	Chk	Pass	Chk	Pass	Chk	Pass
Value							
Range							

Zoom In
Zoom Out

Sample Name: HSTD Acquired: 4/6/2015 9:45:58 Type: QC
Method: 60102007_041712(v217) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2430.9	6971.9	42724.	3913.7
Stddev	6.9	10.3	49.	11.1
%RSD	.28265	.14774	.11523	.28424
#1	2437.0	6977.1	42765.	3926.0
#2	2432.4	6978.5	42738.	3904.3
#3	2423.5	6960.0	42669.	3910.8

Zoom In
Zoom Out

Sample Name: ICV Acquired: 4/6/2015 9:51:29 Type: QC
Method: 60102007_041712(v217) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2548	42.60	2.054	2.151	2.090	43.58	2.031	2.067	2.065	2.040
Stddev	.0002	.05	.003	.005	.003	.05	.004	.003	.003	.002
%RSD	.0718	.1152	.1353	.2122	.1237	.1229	.1701	.1475	.1433	.1032
#1	.2550	42.60	2.056	2.153	2.093	43.63	2.032	2.068	2.063	2.042
#2	.2549	42.64	2.051	2.154	2.090	43.60	2.027	2.063	2.069	2.038
#3	.2546	42.54	2.054	2.145	2.088	43.52	2.033	2.069	2.064	2.041
Check ?	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass
Value										
Range										

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	42.53	42.53	41.99	2.083	1.984	42.81	2.098	2.037	2.054	2.056
Stddev	.06	.08	.09	.007	.004	.07	.002	.005	.004	.002
%RSD	.1298	.1847	.2140	.3243	.2074	.1524	.0959	.2653	.2088	.0724
#1	42.55	42.60	42.01	2.081	1.980	42.84	2.098	2.042	2.059	2.057
#2	42.57	42.44	42.08	2.090	1.983	42.85	2.096	2.032	2.051	2.054
#3	42.47	42.55	41.90	2.077	1.988	42.73	2.100	2.036	2.053	2.057
Check ?	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass
Value										
Range										

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4099	2.085	2.035	2.049	2.102	1.982	2.076
Stddev	.0013	.003	.003	.004	.005	.002	.003
%RSD	.3142	.1220	.1566	.1819	.2570	.0835	.1549
#1	.4110	2.085	2.037	2.049	2.108	1.981	2.077
#2	.4085	2.083	2.036	2.052	2.098	1.984	2.072
#3	.4101	2.088	2.031	2.045	2.101	1.982	2.078
Check ?	None	Chk	Pass	Chk	Pass	Chk	Pass
Value							
Range							

Zoom In
Zoom Out

Sample Name: ICV Acquired: 4/6/2015 9:51:29 Type: QC
Method: 60102007_041712(v217) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2583.5	7150.3	42769.	3902.7
Stddev	3.5	7.0	149.	9.4
%RSD	.13554	.09819	.34925	.24183
#1	2579.4	7148.2	42864.	3913.4
#2	2585.9	7158.1	42597.	3899.5
#3	2585.0	7144.5	42847.	3895.4

Zoom In Zoom Out

Sample Name: ICB Acquired: 4/6/2015 9:57:20 Type: QC
Method: 60102007_041712(v217) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0001	-.0087	-.0009	-.0004	.0000	-.0027	-.0002	-.0002	-.0003	-.0004
Stddev	.0002	.0066	.0003	.0002	.000	.0047	.0001	.0001	.0003	.0002
%RSD	285.4	75.72	38.11	37.36	573.3	175.6	32.85	48.54	118.6	43.07
#1	-.0002	-.0115	-.0012	-.0004	-.0001	.0025	-.0001	-.0003	-.0005	-.0004
#2	-.0002	-.0134	-.0007	-.0006	.0001	-.0039	-.0002	-.0001	-.0003	-.0003
#3	.0001	-.0012	-.0006	-.0003	.0000	-.0066	-.0002	-.0003	.0001	-.0006
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0001	.0261	-.0250	-.0001	.0008	.0071	-.0003	.0003	-.0001	-.0014
Stddev	.0014	.0203	.0141	.0000	.0004	.0037	.0001	.0002	.0004	.0009
%RSD	2543.	77.98	56.50	18.76	56.88	52.07	51.53	74.75	350.5	65.67
#1	-.0005	.0240	-.0088	-.0001	.0012	.0056	-.0005	.0004	-.0002	-.0024
#2	.0015	.0068	-.0346	-.0001	.0007	.0113	-.0002	.0004	-.0004	-.0007
#3	-.0013	.0473	-.0316	-.0001	.0003	.0044	-.0002	.0000	.0003	-.0011
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0002	.0001	.0000	.0003	-.0003	-.0003	-.0003
Stddev	.0002	.0001	.000	.0001	.0005	.0000	.0000
%RSD	122.8	178.5	189.2	32.46	153.4	7.862	5.011
#1	.0004	.0002	-.0001	.0004	-.0008	-.0003	-.0003
#2	.0003	.0001	-.0001	.0003	.0001	-.0003	-.0003
#3	-.0001	-.0001	.0000	.0002	-.0003	-.0003	-.0003
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Zoom In Zoom Out

Sample Name: ICB Acquired: 4/6/2015 9:57:20 Type: QC
Method: 60102007_041712(v217) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3108.3	7504.6	46652.	4033.7
Stddev	10.1	19.9	190.	30.1
%RSD	.32584	.26459	.40697	.74577
#1	3118.0	7517.7	46489.	4045.2
#2	3109.3	7514.2	46861.	3999.5
#3	3097.8	7481.7	46607.	4056.3

Zoom In Zoom Out

Sample Name: CRIA Acquired: 4/6/2015 10:01:38 Type: QC
Method: 60102007_041712(v217) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0103	.2093	.0103	.2107	.0053	1.076	.0052	.0552	.0103	.0270
Stddev	.0001	.0115	.0006	.0011	.0001	.004	.0000	.0002	.0001	.0001
%RSD	1.102	5.473	5.399	.5002	1.373	.3769	.5532	.3661	1.029	.3289
#1	.0105	.2135	.0106	.2119	.0052	1.073	.0052	.0551	.0104	.0269
#2	.0103	.1963	.0096	.2098	.0053	1.081	.0052	.0554	.0102	.0271
#3	.0102	.2180	.0106	.2104	.0053	1.074	.0052	.0550	.0104	.0269
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value										
Range										

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.3128	10.54	5.329	.0161	.0505	10.57	.0444	.0054	.0048	.0091
Stddev	.0065	.02	.031	.0001	.0002	.03	.0002	.0004	.0008	.0015
%RSD	2.087	.1828	.5880	.8144	.4034	.2597	.3587	6.790	17.19	16.58
#1	.3192	10.55	5.365	.0161	.0507	10.60	.0445	.0052	.0056	.0091
#2	.3062	10.52	5.310	.0162	.0506	10.56	.0444	.0058	.0039	.0106
#3	.3130	10.55	5.312	.0160	.0503	10.54	.0442	.0051	.0048	.0076
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value										
Range										

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0452	.0552	.0103	.0102	.0096	.0506	.0221
Stddev	.0001	.0001	.0001	.0001	.0008	.0002	.0001
%RSD	.3100	.1241	.4873	1.063	8.571	.3551	.2826
#1	.0452	.0552	.0103	.0102	.0102	.0507	.0221
#2	.0454	.0553	.0104	.0103	.0087	.0508	.0222
#3	.0451	.0553	.0103	.0101	.0100	.0504	.0221
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Zoom In Zoom Out

Sample Name: CRIA Acquired: 4/6/2015 10:01:38 Type: QC
Method: 60102007_041712(v217) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2924.7	7379.9	45016.	3976.8
Stddev	4.8	6.9	186.	11.1
%RSD	.16464	.09343	.41324	.27890
#1	2929.6	7387.8	45121.	3979.6
#2	2924.5	7375.1	44801.	3964.6
#3	2920.0	7376.8	45125.	3986.2

Zoom In Zoom Out

Sample Name: ICSA Acquired: 4/6/2015 10:08:18 Type: QC
Method: 60102007_041712(v218) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0005	509.0	-.0016	.0001	.0000	477.5	.0006	-.0005	.0004	-.0006
Stddev	.0006	.8	.0010	.0001	.000	.3	.0001	.0001	.0001	.0003
%RSD	117.7	.1476	60.56	197.5	314.4	.0613	8.297	18.84	34.17	47.10
#1	.0000	509.6	-.0009	.0000	-.0001	477.8	.0006	-.0005	.0003	-.0003
#2	.0004	509.2	-.0012	.0000	-.0001	477.3	.0006	-.0004	.0005	-.0006
#3	.0012	508.1	-.0027	.0002	.0001	477.3	.0007	-.0005	.0003	-.0009
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	185.5	.0271	492.8	-.0001	.0000	.1730	.0004	.0002	-.0002	.0012
Stddev	.2	.0141	.9	.0000	.000	.0061	.0004	.0013	.0008	.0049
%RSD	.1206	51.98	.1781	32.52	229.8	3.540	116.9	523.4	442.9	418.7
#1	185.2	.0187	492.2	-.0001	.0000	.1665	.0003	-.0012	-.0004	-.0042
#2	185.6	.0192	492.5	-.0001	-.0001	.1787	.0008	.0007	-.0008	.0055
#3	185.6	.0433	493.8	-.0001	.0000	.1736	.0000	.0013	.0007	.0022
Check ?	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0475	.0001	-.0001	.0004	-.0013	-.0002	-.0023
Stddev	.0006	.0002	.0002	.0001	.0011	.0003	.0000
%RSD	1.208	144.9	110.7	19.02	82.77	150.2	1.106
#1	.0477	-.0001	-.0001	.0005	-.0001	.0000	-.0023
#2	.0468	.0002	.0000	.0003	-.0017	-.0006	-.0023
#3	.0479	.0001	-.0003	.0004	-.0021	.0000	-.0023
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Zoom In Zoom Out

Sample Name: ICSA Acquired: 4/6/2015 10:08:18 Type: QC
Method: 60102007_041712(v218) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2291.3	6627.0	39405.	3862.3
Stddev	3.1	1.3	64.	2.2
%RSD	.13565	.01949	.16224	.05567
#1	2291.9	6628.5	39402.	3860.2
#2	2294.1	6626.7	39343.	3864.5
#3	2288.0	6626.0	39471.	3862.2

Zoom In Zoom Out

Sample Name: ICSAB Acquired: 4/6/2015 10:13:17 Type: QC
Method: 60102007_041712(v218) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.9764	494.7	1.071	.5187	.5187	479.4	.9387	.4826	.4924	.5460
Stddev	.0020	4.1	.002	.0013	.0014	5.0	.0008	.0005	.0016	.0022
%RSD	.2098	.8374	.2004	.2559	.2630	1.034	.0811	.1123	.3239	.3964
#1	.9783	490.8	1.069	.5192	.5197	475.5	.9382	.4823	.4943	.5485
#2	.9742	499.0	1.071	.5172	.5172	477.7	.9385	.4823	.4913	.5446
#3	.9768	494.1	1.073	.5197	.5193	484.9	.9396	.4832	.4918	.5449
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value										
Range										

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	188.7	.0184	493.0	.5041	.9644	.1858	.9742	.9704	1.081	1.042
Stddev	.6	.0107	1.7	.0011	.0019	.0131	.0004	.0037	.003	.003
%RSD	.3274	58.11	.3478	.2162	.1948	7.041	.0433	.3767	.2382	.3106
#1	189.2	.0076	493.9	.5052	.9626	.1756	.9739	.9733	1.078	1.039
#2	188.0	.0186	491.1	.5030	.9642	.1811	.9740	.9663	1.083	1.041
#3	188.9	.0290	494.1	.5040	.9664	.2005	.9747	.9716	1.082	1.045
Check ?	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value										
Range										

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1017	.9740	1.022	1.021	.9679	.4853	.9674
Stddev	.0008	.0010	.003	.002	.0014	.0012	.0011
%RSD	.7961	.1059	.2691	.2078	.1425	.2433	.1155
#1	.1008	.9731	1.025	1.024	.9681	.4861	.9673
#2	.1019	.9736	1.020	1.020	.9692	.4839	.9664
#3	.1024	.9751	1.021	1.020	.9664	.4858	.9686
Check ?	None	Chk Pass	None	None	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Zoom In Zoom Out

Sample Name: ICSAB Acquired: 4/6/2015 10:13:17 Type: QC
Method: 60102007_041712(v218) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2254.8	6558.3	39254.	3825.5
Stddev	4.1	5.5	77.	40.1
%RSD	.18244	.08316	.19499	1.0470
#1	2250.2	6560.1	39228.	3805.2
#2	2258.1	6562.6	39340.	3871.6
#3	2256.1	6552.1	39194.	3799.6

Zoom In Zoom Out

Sample Name: CCV Acquired: 4/6/2015 10:21:25 Type: QC
Method: 60102007_041712(v218) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2521	40.40	2.003	2.020	2.030	40.48	2.017	2.020	2.006	2.013
Stddev	.0017	.15	.001	.007	.007	.14	.001	.001	.007	.008
%RSD	.6650	.3721	.0473	.3527	.3511	.3380	.0590	.0670	.3580	.3761
#1	.2540	40.54	2.002	2.026	2.037	40.63	2.016	2.018	2.014	2.021
#2	.2510	40.24	2.003	2.012	2.023	40.36	2.018	2.021	2.000	2.011
#3	.2513	40.43	2.004	2.023	2.030	40.45	2.016	2.020	2.004	2.006
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value										
Range										

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	41.11	40.21	40.35	2.024	2.025	40.39	2.023	1.976	2.011	2.017
Stddev	.14	.17	.08	.007	.007	.15	.002	.003	.003	.004
%RSD	.3519	.4145	.1910	.3575	.3293	.3631	.0814	.1684	.1255	.1994
#1	41.23	40.36	40.41	2.032	2.017	40.52	2.021	1.973	2.008	2.012
#2	40.95	40.03	40.27	2.021	2.027	40.23	2.025	1.976	2.013	2.020
#3	41.15	40.25	40.39	2.019	2.030	40.41	2.024	1.980	2.011	2.019
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value										
Range										

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.265	2.042	2.024	2.031	2.006	2.014	2.011
Stddev	.001	.002	.006	.008	.006	.007	.001
%RSD	.0394	.1063	.2815	.4019	.2912	.3371	.0330
#1	2.264	2.040	2.030	2.041	1.999	2.022	2.011
#2	2.265	2.044	2.018	2.027	2.009	2.009	2.012
#3	2.266	2.043	2.025	2.027	2.008	2.011	2.012
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Zoom In Zoom Out

Sample Name: CCV Acquired: 4/6/2015 10:21:25 Type: QC
Method: 60102007_041712(v218) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2596.5	7144.5	43492.	3930.5
Stddev	.5	6.6	170.	31.2
%RSD	.01782	.09210	.39022	.79372
#1	2596.1	7138.5	43297.	3896.9
#2	2597.0	7143.6	43599.	3958.6
#3	2596.4	7151.5	43582.	3936.0

Zoom In Zoom Out

Sample Name: CCB Acquired: 4/6/2015 10:31:30 Type: QC
Method: 60102007_041712(v218) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0001	-.0092	.0002	.0001	.0002	.0038	.0002	.0003
Stddev	.0003	.0024	.0002	.0001	.0000	.0024	.0000	.0001
%RSD	354.6	26.15	102.5	92.44	18.32	63.69	26.76	42.79
#1	-.0002	-.0100	.0000	.0000	.0002	.0010	.0002	.0004
#2	.0002	-.0065	.0002	.0002	.0003	.0053	.0002	.0002
#3	-.0003	-.0110	.0004	.0002	.0003	.0051	.0001	.0002
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Cr2677	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0002	.0002	-.0037	-.0093	-.0088	.0001	F-.0010	.0141
Stddev	.0003	.0002	.0040	.0303	.0138	.0000	.0002	.0057
%RSD	141.5	91.93	110.1	326.5	156.0	36.82	14.50	40.47
#1	.0000	.0004	-.0013	-.0441	.0065	.0002	-.0009	.0076
#2	-.0001	.0003	-.0014	.0047	-.0203	.0001	-.0010	.0167
#3	-.0005	.0000	-.0083	.0115	-.0126	.0002	-.0012	.0181
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit							.0010	
Low Limit							-.0010	

Elem	Ni2316	Pb2203	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0001	.0006	-.0001	-.0006	.0029	-.0001	.0001	-.0003
Stddev	.0001	.0000	.0004	.0006	.0002	.0001	.0001	.0000
%RSD	159.1	8.006	319.4	95.03	8.382	107.2	82.59	12.47
#1	-.0001	.0006	-.0005	-.0013	.0026	-.0003	.0000	-.0003
#2	.0002	.0006	.0004	-.0003	.0030	-.0001	.0001	-.0003
#3	.0001	.0005	-.0003	-.0003	.0031	.0000	.0002	-.0003
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Zoom In Zoom Out

Sample Name: CCB Acquired: 4/6/2015 10:31:30 Type: QC
Method: 60102007_041712(v218) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm
Avg	-.0011	-.0001	-.0001
Stddev	.0003	.0003	.0001
%RSD	29.00	263.9	78.63
#1	-.0007	-.0001	-.0001
#2	-.0012	-.0003	.0000
#3	-.0014	.0002	-.0002
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3116.8	7496.7	46579.	4076.1
Stddev	7.3	9.4	311.	20.8
%RSD	.23490	.12602	.66847	.51047
#1	3121.8	7507.4	46560.	4053.8
#2	3108.4	7492.8	46899.	4079.6
#3	3120.3	7489.8	46277.	4095.0

Zoom In
Zoom Out

Sample Name: FA23034-10 Acquired: 4/6/2015 10:37:14 Type: Unk
Method: 60102007_041712(v218) Mode: CONC Corr. Factor: 2.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	.0008	.0026	-.0009	.7519	-.0001	2.740	.0754	.0001	.0019	2.385
Stddev	.0011	.0103	.0005	.0031	.0000	.009	.0003	.0001	.0002	.004
%RSD	133.5	397.5	61.78	.4061	15.08	.3219	.3632	77.64	12.95	.1537
#1	.0014	.0070	-.0005	.7554	-.0001	2.729	.0751	.0001	.0020	2.389
#2	.0015	-.0092	-.0015	.7503	-.0001	2.744	.0756	.0001	.0021	2.382
#3	-.0004	.0100	-.0007	.7499	-.0001	2.746	.0756	.0003	.0016	2.385

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	-.0087	.1356	.1773	.0430	.0375	33.09	.0047	.0006	.0310	-.0040
Stddev	.0032	.0871	.0373	.0000	.0003	.07	.0001	.0004	.0010	.0004
%RSD	36.61	64.26	21.05	.0689	.9175	.2153	1.791	66.73	3.136	9.510
#1	-.0056	.1246	.1411	.0430	.0377	33.15	.0047	.0010	.0299	-.0039
#2	-.0120	.0544	.2156	.0430	.0371	33.01	.0048	.0002	.0314	-.0037
#3	-.0084	.2277	.1752	.0429	.0378	33.10	.0046	.0008	.0317	-.0044

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	.0864	-.0008	.0616	-.0014	-.0020	-.0004	.1634
Stddev	.0006	.0002	.0002	.0001	.0003	.0003	.0003
%RSD	.7356	21.54	.3987	6.416	14.03	69.42	.1625
#1	.0859	-.0006	.0614	-.0013	-.0021	-.0006	.1631
#2	.0862	-.0009	.0618	-.0014	-.0021	-.0001	.1634
#3	.0871	-.0009	.0617	-.0014	-.0016	-.0004	.1636

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	2976.1	7389.0	45547.	4043.8
Stddev	2.6	7.2	338.	7.3
%RSD	.08872	.09725	.74187	.18110
#1	2974.5	7391.0	45182.	4051.3
#2	2974.6	7381.0	45610.	4043.6
#3	2979.1	7394.9	45849.	4036.6

Zoom In
Zoom Out

Sample Name: FA23258-5 Acquired: 4/6/2015 10:41:20 Type: Unk
Method: 60102007_041712(v218) Mode: CONC Corr. Factor: 10.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)
Avg	.0019	99.55	.0185	1.196	.0043	4242.	-.0038	.0316	.0851
Stddev	.0019	.41	.0024	.002	.0008	17.	.0005	.0007	.0030
%RSD	97.86	.4122	13.05	.1416	18.65	.4039	13.00	2.321	3.575
#1	.0037	99.94	.0212	1.194	.0040	4260.	-.0043	.0310	.0848
#2	.0021	99.13	.0180	1.198	.0037	4239.	-.0034	.0324	.0823
#3	.0000	99.58	.0164	1.195	.0052	4226.	-.0036	.0313	.0884

Elem	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
IS Ref	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)
Avg	.0648	86.54	27.26	132.4	1.857	-.0165	26.64	.0689	.0525
Stddev	.0045	.18	.17	.3	.006	.0003	.05	.0010	.0078
%RSD	6.990	.2135	.6374	.2412	.3154	1.624	.1867	1.510	14.87
#1	.0670	86.54	27.14	132.0	1.860	-.0169	26.59	.0677	.0574
#2	.0678	86.36	27.46	132.6	1.860	-.0164	26.67	.0694	.0566
#3	.0596	86.72	27.19	132.5	1.850	-.0164	26.68	.0696	.0435

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	-.0284	-.0433	11.02	.0142	F47.54	2.268	-.0112	.1796	.2300
Stddev	.0102	.0217	.03	.0008	.44	.011	.0052	.0012	.0001
%RSD	35.96	50.05	.2569	5.491	.9169	.4608	46.49	.6923	.0511
#1	-.0396	-.0315	10.98	.0133	47.06	2.274	-.0088	.1810	.2298
#2	-.0197	-.0302	11.04	.0143	47.65	2.274	-.0172	.1791	.2300
#3	-.0258	-.0684	11.03	.0149	47.91	2.256	-.0077	.1787	.2300

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	2562.9	6970.6	43418.	4093.8
Stddev	3.2	2.7	89.	5.4
%RSD	.12312	.03914	.20556	.13232
#1	2561.3	6973.7	43343.	4095.8
#2	2560.8	6968.6	43394.	4097.9
#3	2566.5	6969.5	43517.	4087.7

Zoom In
Zoom Out

Sample Name: MP28752-D1 Acquired: 4/6/2015 10:45:40 Type: Unk
Method: 60102007_041712(v218) Mode: CONC Corr. Factor: 10.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	.0012	88.21	.0053	1.041	.0032	3440.	-.0033	.0263	.0773	.0548
Stddev	.0018	.05	.0048	.004	.0008	21.	.0004	.0004	.0034	.0009
%RSD	147.5	.0533	89.51	.4018	23.41	.6143	12.18	1.395	4.438	1.675
#1	.0010	88.18	.0047	1.044	.0041	3443.	-.0038	.0265	.0767	.0546
#2	.0030	88.26	.0104	1.037	.0026	3459.	-.0031	.0266	.0742	.0540
#3	-.0004	88.18	.0009	1.044	.0030	3417.	-.0032	.0259	.0810	.0558

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	75.38	24.23	115.2	1.624	-.0175	22.68	.0606	.0417	-.0243	-.0228
Stddev	.22	.33	.8	.003	.0013	.04	.0008	.0018	.0109	.0068
%RSD	.2931	1.351	.6898	.1872	7.461	.1729	1.295	4.254	44.86	29.85
#1	75.35	24.61	114.8	1.621	-.0172	22.66	.0614	.0421	-.0363	-.0180
#2	75.17	24.06	116.1	1.627	-.0189	22.67	.0598	.0398	-.0150	-.0306
#3	75.61	24.02	114.6	1.623	-.0164	22.73	.0605	.0433	-.0216	-.0199

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	8.276	.0119	39.98	2.051	-.0113	.1572	.1978
Stddev	.015	.0006	.05	.005	.0009	.0023	.0007
%RSD	.1779	5.381	.1224	.2635	8.335	1.473	.3683
#1	8.260	.0117	39.99	2.045	-.0119	.1596	.1973
#2	8.280	.0127	39.93	2.053	-.0102	.1551	.1975
#3	8.289	.0114	40.02	2.056	-.0117	.1568	.1987

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	2625.8	7058.8	44001.	4120.2
Stddev	3.4	5.8	29.	37.9
%RSD	.12945	.08164	.06484	.92087
#1	2621.9	7056.3	44031.	4117.8
#2	2627.8	7065.4	43974.	4083.6
#3	2627.7	7054.8	43999.	4159.3

Zoom In
Zoom Out

Sample Name: MP28752-S1 Acquired: 4/6/2015 10:49:52 Type: Unk
Method: 60102007_041712(v218) Mode: CONC Corr. Factor: 10.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)
Avg	.0459	133.9	2.065	3.037	.0534	4008.	.0443	.5145	.2860
Stddev	.0030	.7	.015	.018	.0005	68.	.0006	.0011	.0042
%RSD	6.487	.5039	.7321	.6073	.9550	1.697	1.269	.2131	1.471
#1	.0429	133.2	2.055	3.017	.0528	3930.	.0444	.5134	.2908
#2	.0489	134.0	2.058	3.042	.0535	4041.	.0437	.5144	.2836
#3	.0459	134.6	2.082	3.053	.0538	4054.	.0448	.5156	.2835

Elem	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
IS Ref	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)
Avg	.3169	114.9	54.61	158.0	2.414	.4433	51.66	.5681	.5136
Stddev	.0019	.8	.55	1.0	.010	.0022	.37	.0018	.0053
%RSD	.6024	.6714	1.005	.6390	.4297	.4957	.7143	.3221	1.025
#1	.3189	114.0	54.09	156.8	2.417	.4423	51.35	.5677	.5183
#2	.3151	115.1	54.56	158.7	2.402	.4459	51.55	.5665	.5146
#3	.3165	115.5	55.19	158.4	2.422	.4418	52.07	.5701	.5079

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	.1157	2.036	6.798	.5013	F45.14	2.845	1.688	.6538	.7256
Stddev	.0041	.010	.006	.0022	.44	.011	.009	.0027	.0007
%RSD	3.532	.4721	.0909	.4335	.9733	.3750	.5593	.4201	.0936
#1	.1189	2.025	6.793	.4988	45.01	2.850	1.678	.6565	.7256
#2	.1171	2.043	6.797	.5026	44.79	2.833	1.689	.6510	.7249
#3	.1111	2.040	6.805	.5024	45.63	2.852	1.697	.6539	.7262

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	2579.3	7006.9	43917.	4206.9
Stddev	1.6	7.9	186.	21.2
%RSD	.06063	.11312	.42361	.50323
#1	2580.6	7009.1	43866.	4231.3
#2	2579.7	7013.5	44123.	4194.1
#3	2577.6	6998.1	43762.	4195.1

Zoom In
Zoom Out

Sample Name: MP28752-S2 Acquired: 4/6/2015 10:54:10 Type: Unk
Method: 60102007_041712(v218) Mode: CONC Corr. Factor: 10.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)
Avg	.0460	135.1	2.112	3.076	.0534	4159.	.0447	.5208	.2799
Stddev	.0036	.4	.005	.006	.0005	57.	.0005	.0016	.0005
%RSD	7.760	.2676	.2560	.1937	1.029	1.365	1.108	.3130	.1857
#1	.0487	135.5	2.118	3.082	.0537	4199.	.0447	.5189	.2796
#2	.0473	134.8	2.107	3.070	.0527	4094.	.0452	.5220	.2796
#3	.0419	135.0	2.112	3.075	.0537	4185.	.0442	.5214	.2805

Elem	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
IS Ref	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)
Avg	.3238	114.6	55.47	161.0	2.409	.4510	53.07	.5775	.5127
Stddev	.0029	.2	.28	.5	.007	.0003	.14	.0011	.0031
%RSD	.8846	.1475	.5091	.3209	.3079	.0585	.2733	.1941	.5991
#1	.3265	114.6	55.19	160.5	2.401	.4513	53.24	.5762	.5093
#2	.3240	114.4	55.48	161.0	2.413	.4508	52.95	.5780	.5153
#3	.3208	114.7	55.75	161.6	2.414	.4510	53.03	.5782	.5134

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	.1191	2.082	6.753	.5103	F48.25	2.842	1.688	.6610	.7353
Stddev	.0044	.025	.003	.0035	.78	.009	.012	.0034	.0022
%RSD	3.655	1.182	.0414	.6797	1.625	.3268	.6827	.5170	.3013
#1	.1143	2.073	6.750	.5122	48.93	2.832	1.688	.6641	.7327
#2	.1204	2.110	6.755	.5123	47.39	2.844	1.699	.6617	.7366
#3	.1227	2.064	6.754	.5063	48.44	2.850	1.676	.6573	.7366

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	2584.4	7028.2	44353.	4216.8
Stddev	3.3	5.9	86.	38.7
%RSD	.12620	.08382	.19344	.91699
#1	2587.8	7034.9	44269.	4213.5
#2	2581.3	7023.8	44348.	4257.0
#3	2584.1	7025.9	44441.	4179.8

Zoom In
Zoom Out

Sample Name: MP28752-PS1 Acquired: 4/6/2015 10:58:29 Type: Unk
Method: 60102007_041712(v218) Mode: CONC Corr. Factor: 10.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)
Avg	.0538	89.08	.1285	1.336	.0599	3824.	.0521	.0836	.1275
Stddev	.0027	.15	.0020	.003	.0003	34.	.0002	.0001	.0037
%RSD	5.001	.1696	1.560	.2394	.4382	.8809	.4675	.0823	2.875
#1	.0510	88.91	.1265	1.335	.0600	3820.	.0521	.0836	.1316
#2	.0563	89.18	.1305	1.335	.0596	3859.	.0519	.0836	.1244
#3	.0542	89.16	.1283	1.340	.0600	3792.	.0524	.0837	.1266

Elem	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
IS Ref	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)
Avg	.1719	77.77	35.25	119.1	1.668	.0938	35.54	.1777	.0997
Stddev	.0022	.16	.33	.9	.008	.0004	.10	.0011	.0030
%RSD	1.266	.2100	.9424	.7359	.4540	.4660	.2705	.6378	3.042
#1	.1742	77.68	35.22	118.6	1.675	.0943	35.59	.1790	.1032
#2	.1700	77.67	35.60	120.2	1.660	.0935	35.43	.1770	.0975
#3	.1714	77.96	34.93	118.7	1.668	.0936	35.60	.1771	.0984

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	.0876	.0863	10.64	.0626	F43.79	2.059	.0949	.2087	.4894
Stddev	.0120	.0102	.03	.0034	.51	.008	.0105	.0007	.0007
%RSD	13.65	11.82	.2719	5.418	1.156	.3905	11.08	.3262	.1477
#1	.0996	.0975	10.63	.0587	43.24	2.064	.1008	.2080	.4894
#2	.0875	.0776	10.62	.0647	44.24	2.050	.0827	.2094	.4886
#3	.0757	.0838	10.67	.0645	43.89	2.063	.1011	.2086	.4901

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	2611.9	7020.5	44587.	4276.0
Stddev	5.9	19.8	126.	18.6
%RSD	.22644	.28134	.28147	.43383
#1	2606.9	7003.7	44442.	4257.5
#2	2618.4	7042.3	44650.	4276.1
#3	2610.3	7015.5	44668.	4294.6

Zoom In
Zoom Out

Sample Name: MP28752-SD1 Acquired: 4/6/2015 11:02:50 Type: Unk
Method: 60102007_041712(v218) Mode: CONC Corr. Factor: 50.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	.0186	128.1	.0161	1.506	.0053	5483.	-.0102	.0317	.1151	.0677
Stddev	.0040	.4	.0140	.009	.0043	23.	.0029	.0073	.0063	.0094
%RSD	21.27	.3044	87.23	.6210	82.46	.4125	28.78	23.13	5.504	13.90
#1	.0146	128.5	.0004	1.515	.0080	5505.	-.0136	.0402	.1195	.0761
#2	.0187	127.9	.0275	1.504	.0003	5483.	-.0090	.0269	.1079	.0575
#3	.0225	127.8	.0202	1.497	.0075	5460.	-.0081	.0281	.1181	.0694

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	105.8	35.51	162.7	2.254	-.1312	32.51	.0728	.1085	-.1374	-.1309
Stddev	.5	.87	2.5	.012	.0024	.46	.0026	.0176	.0251	.0040
%RSD	.4838	2.451	1.538	.5234	1.864	1.419	3.634	16.20	18.30	3.088
#1	106.3	35.35	163.3	2.264	-.1293	33.05	.0717	.1033	-.1165	-.1300
#2	105.7	36.44	164.9	2.241	-.1339	32.24	.0708	.1281	-.1653	-.1353
#3	105.3	34.73	160.0	2.256	-.1303	32.25	.0758	.0941	-.1304	-.1274

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	76.97	-.0129	60.68	3.704	-.0065	.2190	.3230
Stddev	2.75	.0052	.13	.035	.0298	.0076	.0039
%RSD	3.571	40.26	.2094	.9499	459.0	3.488	1.211
#1	79.95	-.0098	60.82	3.719	-.0356	.2248	.3238
#2	74.54	-.0099	60.64	3.664	.0239	.2218	.3188
#3	76.41	-.0188	60.57	3.729	-.0077	.2103	.3265

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	2879.4	7315.4	46610.	4322.0
Stddev	6.1	9.4	156.	40.8
%RSD	.21115	.12809	.33397	.94364
#1	2881.1	7323.2	46443.	4280.6
#2	2884.4	7317.9	46751.	4323.4
#3	2872.6	7305.0	46636.	4362.1

Zoom In
Zoom Out

Sample Name: FA23258-22 Acquired: 4/6/2015 11:06:55 Type: Unk
Method: 60102007_041712(v218) Mode: CONC Corr. Factor: 10.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	-.0013	94.85	.0092	1.212	.0040	3315.	-.0035	.0287	.0801	.0714
Stddev	.0031	.07	.0063	.004	.0006	27.	.0002	.0007	.0007	.0038
%RSD	238.6	.0713	68.78	.2856	15.73	.8025	5.810	2.608	.8190	5.260
#1	-.0025	94.91	.0070	1.213	.0034	3284.	-.0035	.0295	.0805	.0678
#2	-.0036	94.78	.0043	1.215	.0038	3331.	-.0034	.0287	.0794	.0753
#3	.0022	94.86	.0163	1.209	.0047	3329.	-.0038	.0280	.0806	.0710

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	78.85	24.41	217.1	1.665	-.0186	20.24	.0662	.0534	-.0189	-.0289
Stddev	.17	.21	.7	.004	.0016	.04	.0012	.0032	.0026	.0081
%RSD	.2178	.8572	.3445	.2318	8.529	.2079	1.873	6.010	13.48	28.01
#1	78.68	24.17	216.7	1.669	-.0197	20.22	.0661	.0542	-.0201	-.0365
#2	78.85	24.50	216.6	1.661	-.0193	20.21	.0650	.0562	-.0207	-.0204
#3	79.02	24.56	218.0	1.665	-.0168	20.29	.0674	.0499	-.0160	-.0297

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	9.056	.0146	32.99	2.201	-.0118	.1640	.2342
Stddev	.026	.0029	.03	.004	.0055	.0025	.0011
%RSD	.2880	19.91	.0811	.1898	46.70	1.531	.4486
#1	9.049	.0123	32.97	2.206	-.0109	.1669	.2351
#2	9.035	.0137	33.02	2.197	-.0176	.1631	.2345
#3	9.085	.0179	32.98	2.201	-.0067	.1621	.2331

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	2624.6	7042.1	44707.	4308.7
Stddev	5.9	6.5	36.	17.3
%RSD	.22551	.09194	.07959	.40250
#1	2617.8	7035.7	44666.	4328.7
#2	2628.5	7048.6	44730.	4300.0
#3	2627.5	7042.1	44726.	4297.5

Zoom In Zoom Out

Sample Name: FA23258-23 Acquired: 4/6/2015 11:11:07 Type: Unk
Method: 60102007_041712(v218) Mode: CONC Corr. Factor: 10.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	-.0011	114.1	.0203	1.245	.0049	3929.	-.0022	.0414	.1034	.0872
Stddev	.0027	.2	.0027	.003	.0006	38.	.0004	.0004	.0019	.0036
%RSD	243.9	.1637	13.08	.2742	12.74	.9590	16.27	.9665	1.821	4.169
#1	-.0009	113.9	.0197	1.241	.0049	3937.	-.0026	.0418	.1055	.0902
#2	.0015	114.3	.0232	1.245	.0056	3889.	-.0019	.0410	.1021	.0832
#3	-.0038	114.1	.0180	1.248	.0043	3963.	-.0021	.0414	.1025	.0881

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	108.8	40.65	96.55	2.674	-.0241	29.92	.0999	.0701	-.0146	-.0214
Stddev	.3	.20	.55	.013	.0016	.19	.0016	.0031	.0122	.0030
%RSD	.3003	.4920	.5746	.4807	6.822	.6415	1.607	4.420	83.64	13.95
#1	108.4	40.42	96.81	2.689	-.0242	29.70	.0993	.0688	-.0007	-.0204
#2	109.0	40.75	95.91	2.668	-.0224	29.99	.0988	.0679	-.0198	-.0190
#3	108.9	40.78	96.93	2.666	-.0257	30.07	.1018	.0737	-.0234	-.0247

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	7.086	.0148	19.89	2.296	-.0088	.1926	.3145
Stddev	.013	.0019	.06	.011	.0164	.0025	.0013
%RSD	.1839	12.78	.2826	.4848	187.3	1.273	.4065
#1	7.072	.0158	19.83	2.308	-.0157	.1930	.3153
#2	7.088	.0126	19.94	2.293	.0100	.1899	.3130
#3	7.098	.0159	19.91	2.286	-.0205	.1948	.3152

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	2611.9	7061.1	44710.	4293.6
Stddev	10.0	17.2	190.	34.0
%RSD	.38264	.24397	.42575	.79100
#1	2600.8	7041.2	44524.	4296.5
#2	2620.1	7070.2	44701.	4326.1
#3	2614.9	7071.9	44905.	4258.3

Zoom In Zoom Out

Sample Name: FA23258-25 Acquired: 4/6/2015 11:15:20 Type: Unk
Method: 60102007_041712(v218) Mode: CONC Corr. Factor: 10.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)
Avg	-.0021	103.5	.0185	1.224	.0042	3659.	-.0030	.0315	.0869
Stddev	.0028	.6	.0031	.003	.0006	35.	.0002	.0008	.0017
%RSD	131.5	.5777	16.75	.2800	13.95	.9451	8.200	2.443	1.907
#1	-.0052	102.9	.0151	1.220	.0035	3620.	-.0029	.0320	.0860
#2	-.0014	103.6	.0192	1.225	.0043	3685.	-.0033	.0307	.0859
#3	.0003	104.1	.0211	1.227	.0047	3671.	-.0030	.0320	.0888

Elem	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
IS Ref	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)
Avg	.0834	86.99	31.06	189.7	1.999	-.0116	56.64	.0760	.0608
Stddev	.0013	.08	.37	1.2	.003	.0018	.28	.0020	.0014
%RSD	1.552	.0928	1.188	.6403	.1687	15.75	.4858	2.586	2.314
#1	.0827	86.89	30.64	188.7	2.002	-.0098	56.33	.0738	.0607
#2	.0826	87.03	31.34	189.3	1.995	-.0134	56.81	.0767	.0594
#3	.0849	87.03	31.18	191.1	1.999	-.0116	56.79	.0775	.0622

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	-.0248	-.0159	7.609	.0130	F44.46	2.248	-.0041	.1722	.2625
Stddev	.0096	.0161	.018	.0013	.78	.005	.0082	.0025	.0003
%RSD	38.77	101.3	.2373	10.26	1.753	.2164	201.0	1.472	.1320
#1	-.0170	-.0328	7.591	.0123	43.69	2.252	.0027	.1745	.2627
#2	-.0219	-.0142	7.610	.0145	45.24	2.243	-.0133	.1726	.2621
#3	-.0356	-.0007	7.627	.0121	44.45	2.248	-.0017	.1695	.2628

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	2618.2	7048.4	44796.	4332.3
Stddev	4.4	9.6	98.	41.2
%RSD	.16823	.13560	.21852	.95066
#1	2623.3	7059.3	44739.	4375.1
#2	2615.1	7041.4	44909.	4328.8
#3	2616.4	7044.4	44740.	4293.0

Zoom In Zoom Out

Sample Name: CCV Acquired: 4/6/2015 11:19:41 Type: QC
Method: 60102007_041712(v218) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2498	39.07	2.081	2.039	1.996	38.97	2.026	2.042	1.921	2.010
Stddev	.0005	.13	.004	.008	.007	.07	.004	.004	.006	.007
%RSD	.1850	.3375	.2014	.4113	.3673	.1897	.1728	.1895	.3371	.3407
#1	.2501	39.05	2.076	2.036	1.992	38.91	2.023	2.038	1.917	2.015
#2	.2493	39.21	2.081	2.048	2.004	39.05	2.025	2.041	1.918	2.002
#3	.2500	38.95	2.084	2.032	1.991	38.94	2.030	2.046	1.929	2.014
Check ?	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass
Value																				
Range																				

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	40.06	39.91	39.30	1.975	2.059	39.27	2.066	1.953	2.088	2.092
Stddev	.04	.09	.05	.005	.011	.12	.001	.006	.005	.003
%RSD	.1111	.2224	.1293	.2598	.5324	.3084	.0678	.3182	.2539	.1490
#1	40.05	39.84	39.27	1.974	2.047	39.25	2.065	1.950	2.083	2.089
#2	40.11	40.01	39.27	1.971	2.059	39.40	2.066	1.950	2.089	2.092
#3	40.02	39.88	39.36	1.981	2.069	39.16	2.068	1.960	2.093	2.095
Check ?	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass
Value																				
Range																				

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.359	2.110	2.004	1.988	2.002	2.004	1.996
Stddev	.006	.003	.008	.005	.006	.003	.002
%RSD	.2464	.1536	.4083	.2673	.3054	.1472	.1143
#1	2.352	2.106	2.000	1.988	1.997	2.005	1.993
#2	2.360	2.112	2.014	1.983	2.002	2.001	1.995
#3	2.363	2.112	2.000	1.994	2.009	2.007	1.998
Check ?	None	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass
Value															
Range															

Zoom In Zoom Out

Sample Name: CCV Acquired: 4/6/2015 11:19:41 Type: QC
Method: 60102007_041712(v218) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2655.8	7200.7	45958.	4307.0
Stddev	2.2	3.6	176.	24.8
%RSD	.08098	.04985	.38250	.57654
#1	2658.3	7204.8	46059.	4286.3
#2	2654.7	7199.5	46060.	4334.6
#3	2654.5	7198.0	45755.	4300.3

Zoom In Zoom Out

Sample Name: CCB Acquired: 4/6/2015 11:23:37 Type: QC
Method: 60102007_041712(v218) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0001	-.0069	-.0003	.0000	.0002	.0070	.0001	.0001	.0000
Stddev	.0002	.0105	.0004	.0001	.0001	.0004	.0001	.0001	.000
%RSD	169.8	153.5	115.5	475.0	23.77	6.258	52.36	77.28	2413.
#1	-.0001	.0052	-.0004	.0001	.0002	.0066	.0002	.0002	-.0001
#2	.0001	-.0114	-.0006	.0001	.0003	.0070	.0001	.0001	.0001
#3	.0003	-.0143	.0001	-.0001	.0002	.0075	.0001	.0000	-.0001
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000	.0163	.0103	-.0087	.0002	F.0026	.0326	.0002	F.0012
Stddev	.0002	.0096	.0205	.0340	.0001	.0014	.0054	.0001	.0004
%RSD	774.3	58.57	199.3	390.8	23.91	53.28	16.66	47.92	35.04
#1	.0002	.0271	.0285	.0304	.0002	.0040	.0265	.0003	.0015
#2	-.0002	.0130	-.0119	-.0249	.0003	.0023	.0347	.0003	.0007
#3	.0001	.0089	.0142	-.0317	.0003	.0013	.0367	.0001	.0012
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Fail
High Limit						.0010			.0010
Low Limit						-.0010			-.0010

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0004	.0003	.0032	.0000	.0002	.0006	-.0007	.0002	-.0002
Stddev	.0015	.0004	.0002	.0005	.0001	.0001	.0000	.0001	.0001
%RSD	407.4	108.7	5.777	1505.	31.25	18.81	.8869	66.95	45.38
#1	.0011	.0008	.0031	.0005	.0002	.0007	-.0007	.0002	-.0001
#2	-.0004	.0001	.0035	-.0001	.0001	.0005	-.0007	.0000	-.0002
#3	-.0018	.0002	.0032	-.0003	.0002	.0005	-.0007	.0002	-.0003
Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Zoom In Zoom Out

Sample Name: CCB Acquired: 4/6/2015 11:23:37 Type: QC
Method: 60102007_041712(v218) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3174.7	7577.4	48462.	4329.0
Stddev	6.7	14.2	39.	42.6
%RSD	.21143	.18722	.08035	.98489
#1	3182.1	7593.0	48430.	4280.9
#2	3169.0	7565.3	48452.	4344.3
#3	3173.1	7573.8	48506.	4361.9

Zoom In Zoom Out

Sample Name: FA23258-27 Acquired: 4/6/2015 11:27:48 Type: Unk
Method: 60102007_041712(v218) Mode: CONC Corr. Factor: 10.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	-.0028	94.73	.0165	.9801	.0049	4074.	-.0038	.0320	.0808	.0662
Stddev	.0012	.31	.0060	.0028	.0004	43.	.0001	.0007	.0040	.0027
%RSD	44.55	.3299	36.13	.2850	7.846	1.062	3.334	2.189	4.971	4.134
#1	-.0017	95.04	.0202	.9787	.0045	4123.	-.0037	.0312	.0781	.0691
#2	-.0025	94.41	.0197	.9782	.0050	4059.	-.0037	.0323	.0855	.0637
#3	-.0041	94.72	.0096	.9833	.0053	4041.	-.0039	.0325	.0790	.0659

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	80.93	28.00	137.0	1.770	-.0086	23.70	.0754	.0433	-.0154	-.0238
Stddev	.18	.24	.3	.007	.0014	.05	.0008	.0068	.0129	.0137
%RSD	.2242	.8661	.2212	.3719	16.02	.1977	1.103	15.72	83.95	57.41
#1	81.14	28.23	137.4	1.777	-.0070	23.75	.0761	.0449	-.0016	-.0191
#2	80.86	28.02	136.9	1.764	-.0092	23.66	.0757	.0492	-.0174	-.0131
#3	80.79	27.75	136.9	1.770	-.0096	23.71	.0745	.0359	-.0272	-.0392

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	7.833	.0164	30.55	2.281	-.0113	.1732	.2279
Stddev	.018	.0030	.04	.010	.0022	.0003	.0008
%RSD	.2270	18.43	.1301	.4406	19.60	.1735	.3608
#1	7.813	.0187	30.56	2.290	-.0135	.1735	.2284
#2	7.839	.0175	30.50	2.270	-.0090	.1732	.2270
#3	7.847	.0130	30.58	2.284	-.0113	.1729	.2285

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	2598.0	7033.3	44354.	4285.6
Stddev	3.2	5.7	126.	45.0
%RSD	.12223	.08152	.28425	1.0501
#1	2600.9	7028.4	44211.	4234.7
#2	2598.4	7039.6	44399.	4301.9
#3	2594.6	7031.9	44451.	4320.2

Zoom In Zoom Out

Sample Name: FA23258-29 Acquired: 4/6/2015 11:32:01 Type: Unk
Method: 60102007_041712(v218) Mode: CONC Corr. Factor: 10.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	-.0021	127.0	.0251	1.407	.0049	4189.	-.0034	.0424	.1094	.0903
Stddev	.0039	.4	.0079	.007	.0005	73.	.0002	.0008	.0012	.0035
%RSD	184.7	.3338	31.52	.4993	9.679	1.746	4.528	1.963	1.114	3.831
#1	-.0047	126.6	.0309	1.415	.0048	4133.	-.0034	.0417	.1087	.0873
#2	.0024	127.1	.0284	1.406	.0055	4162.	-.0033	.0433	.1108	.0895
#3	-.0039	127.4	.0161	1.401	.0046	4271.	-.0036	.0421	.1088	.0941

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	113.0	40.53	139.8	2.464	-.0177	32.25	.0975	.0672	-.0190	-.0126
Stddev	.2	.24	1.0	.004	.0010	.13	.0019	.0006	.0034	.0079
%RSD	.1493	.5995	.7377	.1628	5.920	.3944	1.965	.8399	17.72	62.70
#1	112.8	40.81	138.7	2.468	-.0188	32.10	.0982	.0668	-.0195	-.0112
#2	113.1	40.38	140.3	2.460	-.0167	32.33	.0990	.0678	-.0154	-.0055
#3	113.0	40.40	140.6	2.464	-.0176	32.31	.0954	.0669	-.0220	-.0212

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	8.300	.0143	29.53	2.788	-.0111	.2358	.3225
Stddev	.021	.0009	.04	.002	.0038	.0011	.0010
%RSD	.2576	6.267	.1337	.0767	33.72	.4466	.3023
#1	8.275	.0133	29.48	2.791	-.0154	.2353	.3235
#2	8.316	.0144	29.54	2.788	-.0096	.2370	.3224
#3	8.308	.0151	29.56	2.786	-.0084	.2350	.3216

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	2568.4	6984.4	43802.	4227.0
Stddev	4.4	11.6	97.	41.6
%RSD	.17254	.16646	.22249	.98475
#1	2563.3	6974.9	43740.	4274.7
#2	2570.6	6981.0	43914.	4208.2
#3	2571.4	6997.4	43751.	4198.1

Zoom In Zoom Out

Sample Name: FA23258-31 Acquired: 4/6/2015 11:36:14 Type: Unk
Method: 60102007_041712(v218) Mode: CONC Corr. Factor: 10.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	-.0024	94.67	.0089	1.064	.0034	3571.	-.0027	.0276	.0811	.0681
Stddev	.0039	.39	.0070	.004	.0008	43.	.0003	.0005	.0030	.0012
%RSD	161.2	.4096	78.18	.4055	22.77	1.200	10.23	1.934	3.649	1.833
#1	-.0020	95.06	.0017	1.060	.0043	3621.	-.0030	.0282	.0794	.0666
#2	.0013	94.66	.0094	1.068	.0028	3550.	-.0024	.0273	.0793	.0688
#3	-.0065	94.29	.0157	1.064	.0032	3543.	-.0027	.0273	.0845	.0688

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	79.46	28.42	100.5	1.799	-.0181	40.81	.0692	.0533	-.0273	-.0231
Stddev	.13	.25	.1	.007	.0004	.08	.0015	.0082	.0057	.0078
%RSD	.1686	.8870	.1159	.3710	2.034	.2061	2.173	15.48	21.06	33.73
#1	79.31	28.54	100.7	1.802	-.0182	40.85	.0682	.0479	-.0265	-.0307
#2	79.54	28.13	100.5	1.804	-.0177	40.87	.0709	.0628	-.0220	-.0235
#3	79.54	28.59	100.5	1.791	-.0185	40.71	.0685	.0491	-.0334	-.0151

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	8.306	.0130	24.92	1.981	-.0105	.1607	.2307
Stddev	.027	.0017	.04	.008	.0081	.0007	.0009
%RSD	.3283	13.35	.1586	.4105	77.19	.4340	.4046
#1	8.286	.0149	24.91	1.989	-.0062	.1612	.2300
#2	8.337	.0125	24.96	1.983	-.0198	.1599	.2303
#3	8.295	.0116	24.88	1.973	-.0054	.1610	.2318

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	2611.7	6993.0	44295.	4243.0
Stddev	5.8	16.3	101.	25.5
%RSD	.22253	.23267	.22826	.60070
#1	2618.3	7011.3	44390.	4217.5
#2	2607.5	6980.0	44189.	4242.8
#3	2609.2	6987.7	44305.	4268.5

Zoom In Zoom Out

Sample Name: FA23258-33 Acquired: 4/6/2015 11:40:28 Type: Unk
Method: 60102007_041712(v218) Mode: CONC Corr. Factor: 10.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	-.0024	23.53	-.0034	.3251	.0002	3639.	-.0047	.0083	.0170	.0344
Stddev	.0019	.08	.0032	.0006	.0006	22.	.0002	.0006	.0010	.0010
%RSD	79.78	.3492	94.37	.1787	293.3	.6158	4.133	6.977	5.780	2.862
#1	-.0035	23.51	-.0003	.3252	-.0005	3630.	-.0049	.0083	.0180	.0334
#2	-.0002	23.63	-.0032	.3244	.0005	3623.	-.0046	.0077	.0160	.0343
#3	-.0035	23.47	-.0066	.3255	.0006	3665.	-.0045	.0089	.0170	.0354

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	19.09	8.235	55.37	.4558	-.0271	38.13	.0172	.0203	-.0127	-.0381
Stddev	.08	.239	.20	.0001	.0010	.12	.0009	.0075	.0085	.0015
%RSD	.4294	2.897	.3611	.0197	3.826	.3131	5.465	37.04	66.79	3.880
#1	19.01	8.089	55.24	.4558	-.0283	38.00	.0181	.0247	-.0224	-.0398
#2	19.17	8.106	55.60	.4557	-.0264	38.24	.0163	.0245	-.0075	-.0370
#3	19.11	8.510	55.27	.4559	-.0267	38.16	.0170	.0116	-.0080	-.0375

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	4.257	.0095	26.61	.5868	-.0116	.0485	.0669
Stddev	.006	.0012	.08	.0008	.0003	.0003	.0002
%RSD	.1454	12.47	.3066	.1366	2.173	.5222	.2851
#1	4.252	.0108	26.52	.5859	-.0117	.0483	.0668
#2	4.255	.0086	26.68	.5869	-.0119	.0484	.0671
#3	4.264	.0092	26.64	.5875	-.0114	.0488	.0667

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	2615.4	6919.3	44118.	4276.9
Stddev	3.4	10.5	80.	9.0
%RSD	.12972	.15175	.18100	.20967
#1	2611.6	6910.1	44136.	4279.8
#2	2618.0	6917.1	44031.	4284.0
#3	2616.6	6930.8	44187.	4266.8

Zoom In Zoom Out

Sample Name: FA23189-39 Acquired: 4/6/2015 11:44:43 Type: Unk
Method: 60102007_041712(v218) Mode: CONC Corr. Factor: 10.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)
Avg	-.0006	29.96	.0078	.5326	.0007	3805.	-.0043	.0139	.0229
Stddev	.0014	.24	.0011	.0006	.0003	30.	.0000	.0012	.0006
%RSD	237.8	.8012	13.49	.1075	46.65	.7831	.5626	8.856	2.755
#1	-.0015	29.80	.0090	.5319	.0004	3772.	-.0043	.0140	.0223
#2	-.0014	29.84	.0075	.5328	.0006	3814.	-.0044	.0126	.0228
#3	.0011	30.23	.0070	.5330	.0010	3830.	-.0043	.0151	.0236

Elem	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
IS Ref	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)
Avg	.0430	23.44	10.60	66.57	.5170	-.0255	51.36	.0266	.0263
Stddev	.0030	.14	.15	.59	.0042	.0009	.14	.0009	.0046
%RSD	6.935	.6167	1.424	.8833	.8180	3.643	.2689	3.407	17.64
#1	.0464	23.28	10.74	65.91	.5218	-.0244	51.25	.0256	.0314
#2	.0409	23.56	10.44	67.04	.5139	-.0262	51.32	.0268	.0249
#3	.0416	23.49	10.63	66.75	.5152	-.0259	51.51	.0273	.0225

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	-.0174	-.0258	3.953	.0107	F40.31	.6945	-.0180	.0717	.0797
Stddev	.0034	.0072	.004	.0003	.36	.0055	.0050	.0030	.0007
%RSD	19.77	27.78	.1052	2.516	.8821	.7929	27.52	4.137	.8515
#1	-.0208	-.0321	3.957	.0106	40.42	.7007	-.0130	.0743	.0792
#2	-.0139	-.0275	3.951	.0104	39.92	.6922	-.0229	.0724	.0805
#3	-.0176	-.0180	3.950	.0110	40.61	.6905	-.0182	.0685	.0794

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	2605.9	6893.4	43896.	4229.2
Stddev	5.0	5.7	122.	17.6
%RSD	.19276	.08299	.27723	.41595
#1	2600.2	6891.1	43762.	4244.1
#2	2609.5	6889.3	44000.	4233.8
#3	2608.0	6900.0	43925.	4209.8

Zoom In Zoom Out

Sample Name: FA23189-41 Acquired: 4/6/2015 11:49:01 Type: Unk
Method: 60102007_041712(v218) Mode: CONC Corr. Factor: 10.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	.0001	71.43	.0147	.8626	.0026	4056.	-.0040	.0268	.0564	.0563
Stddev	.0047	.16	.0054	.0057	.0009	19.	.0004	.0007	.0020	.0011
%RSD	4088.	.2298	36.39	.6652	35.59	.4723	9.594	2.739	3.608	1.952
#1	-.0050	71.24	.0206	.8567	.0016	4076.	-.0040	.0261	.0541	.0575
#2	.0011	71.52	.0100	.8630	.0027	4052.	-.0044	.0275	.0575	.0555
#3	.0042	71.53	.0136	.8682	.0034	4039.	-.0036	.0268	.0576	.0558

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	57.43	23.22	113.8	1.070	-.0196	74.93	.0514	.0430	-.0168	-.0233
Stddev	.12	.39	.4	.002	.0009	.21	.0007	.0054	.0044	.0197
%RSD	.2059	1.678	.3690	.2130	4.433	.2771	1.388	12.56	26.23	84.70
#1	57.40	23.43	113.6	1.073	-.0189	74.71	.0513	.0428	-.0178	-.0338
#2	57.33	22.77	113.6	1.069	-.0194	74.96	.0521	.0377	-.0206	-.0355
#3	57.56	23.46	114.3	1.069	-.0206	75.13	.0507	.0486	-.0120	-.0005

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	7.199	.0147	29.17	1.669	-.0124	.1435	.1626
Stddev	.017	.0013	.08	.001	.0060	.0007	.0007
%RSD	.2399	9.115	.2844	.0426	48.39	.5093	.4576
#1	7.189	.0139	29.09	1.670	-.0147	.1442	.1629
#2	7.189	.0140	29.16	1.668	-.0056	.1437	.1632
#3	7.219	.0163	29.26	1.669	-.0169	.1428	.1618

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	2585.6	6920.3	44085.	4279.7
Stddev	3.6	8.2	53.	12.6
%RSD	.13747	.11800	.12050	.29402
#1	2583.8	6915.4	44037.	4293.5
#2	2583.2	6915.6	44142.	4268.9
#3	2589.6	6929.7	44075.	4276.6

Zoom In Zoom Out

Sample Name: FA23243-19 Acquired: 4/6/2015 11:53:16 Type: Unk
Method: 60102007_041712(v218) Mode: CONC Corr. Factor: 5.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	-.0011	125.1	.0684	.7420	.0083	503.6	.0010	.0124	.1969	.0790
Stddev	.0007	.4	.0026	.0002	.0002	1.7	.0003	.0003	.0013	.0007
%RSD	69.32	.3190	3.816	.0248	2.326	.3413	32.31	2.276	.6447	.8741
#1	-.0013	124.8	.0702	.7422	.0081	502.0	.0008	.0121	.1972	.0798
#2	-.0016	125.6	.0696	.7418	.0084	505.4	.0013	.0127	.1955	.0784
#3	-.0002	125.0	.0654	.7420	.0085	503.2	.0008	.0123	.1980	.0788

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	58.43	3.057	159.1	.4624	-.0112	2.721	.0628	.1228	-.0168	-.0009
Stddev	.16	.064	.7	.0013	.0003	.025	.0009	.0018	.0067	.0050
%RSD	.2740	2.087	.4270	.2784	3.079	.9361	1.442	1.433	39.95	573.6
#1	58.25	3.070	158.5	.4637	-.0115	2.707	.0617	.1246	-.0141	.0004
#2	58.56	2.987	159.8	.4611	-.0114	2.750	.0632	.1227	-.0244	.0034
#3	58.48	3.112	159.1	.4625	-.0108	2.706	.0634	.1211	-.0118	-.0064

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	16.33	.0190	2.395	.1753	-.0035	.1294	.0839
Stddev	.01	.0006	.006	.0001	.0010	.0008	.0006
%RSD	.0478	3.160	.2376	.0716	29.76	.6167	.6564
#1	16.33	.0192	2.391	.1753	-.0044	.1303	.0833
#2	16.34	.0195	2.401	.1751	-.0038	.1290	.0843
#3	16.33	.0184	2.392	.1754	-.0024	.1289	.0842

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	2746.3	8551.1	54084.	5084.8
Stddev	5.6	13.3	138.	17.0
%RSD	.20259	.15507	.25461	.33523
#1	2751.9	8566.3	53925.	5098.1
#2	2740.8	8542.3	54149.	5065.6
#3	2746.2	8544.6	54176.	5090.9

Zoom In Zoom Out

Sample Name: MP28754-D1 Acquired: 4/6/2015 11:57:18 Type: Unk
Method: 60102007_041712(v218) Mode: CONC Corr. Factor: 5.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	-.0019	135.8	.0705	.7671	.0083	717.3	.0012	.0143	.2200	.0888
Stddev	.0010	.5	.0017	.0032	.0004	2.9	.0001	.0004	.0004	.0011
%RSD	50.86	.3971	2.375	.4171	5.059	.4067	6.389	2.594	.1818	1.228
#1	-.0024	136.3	.0715	.7699	.0079	719.5	.0012	.0148	.2202	.0898
#2	-.0008	135.8	.0686	.7678	.0087	718.3	.0012	.0141	.2202	.0888
#3	-.0025	135.3	.0714	.7636	.0082	714.0	.0011	.0141	.2195	.0877

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	64.41	3.804	196.0	.5826	-.0112	3.562	.0784	.1299	-.0183	-.0018
Stddev	.05	.116	.7	.0020	.0002	.013	.0002	.0018	.0019	.0059
%RSD	.0699	3.036	.3389	.3479	2.065	.3507	.3101	1.424	10.29	325.4
#1	64.46	3.740	196.0	.5817	-.0112	3.575	.0786	.1314	-.0202	-.0081
#2	64.39	3.938	196.6	.5811	-.0109	3.559	.0786	.1304	-.0181	.0037
#3	64.38	3.735	195.3	.5849	-.0114	3.551	.0782	.1278	-.0165	-.0011

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	18.06	.0179	2.564	.2029	-.0035	.1574	.0970
Stddev	.02	.0013	.012	.0010	.0019	.0012	.0005
%RSD	.1101	7.179	.4754	.4684	54.25	.7315	.4763
#1	18.06	.0165	2.578	.2022	-.0057	.1568	.0965
#2	18.03	.0190	2.560	.2024	-.0022	.1566	.0974
#3	18.07	.0181	2.554	.2039	-.0027	.1587	.0972

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	2689.4	8481.3	53564.	5031.3
Stddev	5.8	9.2	121.	26.9
%RSD	.21604	.10830	.22563	.53442
#1	2692.7	8491.7	53491.	5018.1
#2	2682.7	8474.5	53703.	5013.6
#3	2692.8	8477.6	53498.	5062.3

Zoom In Zoom Out

Sample Name: MP28754-S1 Acquired: 4/6/2015 12:01:21 Type: Unk
Method: 60102007_041712(v218) Mode: CONC Corr. Factor: 5.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	.0456	190.3	2.051	2.671	.0578	642.9	.0491	.4982	.4526	.3343
Stddev	.0013	.5	.004	.012	.0007	1.0	.0002	.0005	.0000	.0023
%RSD	2.950	.2747	.1890	.4472	1.297	.1568	.3395	.1005	.0102	.6897
#1	.0458	190.9	2.056	2.676	.0583	643.5	.0489	.4988	.4526	.3363
#2	.0469	189.8	2.049	2.679	.0569	641.7	.0492	.4978	.4527	.3318
#3	.0442	190.3	2.049	2.657	.0581	643.5	.0493	.4980	.4526	.3349

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	102.9	28.05	212.3	1.026	.4130	27.60	.5706	.6536	.1397	1.982
Stddev	.1	.03	.5	.002	.0006	.06	.0005	.0041	.0066	.010
%RSD	.0695	.0985	.2150	.1808	.1402	.2275	.0870	.6236	4.704	.5001
#1	102.8	28.02	212.0	1.029	.4135	27.67	.5710	.6547	.1365	1.972
#2	102.9	28.05	212.1	1.025	.4123	27.56	.5708	.6569	.1353	1.982
#3	102.9	28.08	212.8	1.026	.4132	27.56	.5700	.6491	.1472	1.991

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	18.08	.5079	2.849	.5225	2.112	.6316	.5807
Stddev	.02	.0001	.009	.0012	.005	.0002	.0012
%RSD	.1055	.0289	.2998	.2204	.2247	.0343	.2012
#1	18.07	.5079	2.859	.5237	2.117	.6314	.5793
#2	18.06	.5078	2.846	.5225	2.110	.6318	.5811
#3	18.10	.5081	2.843	.5214	2.109	.6317	.5815

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	2670.5	8344.8	53124.	4961.1
Stddev	2.3	7.2	121.	24.1
%RSD	.08673	.08683	.22772	.48551
#1	2671.5	8353.1	53114.	4982.6
#2	2667.9	8340.6	53009.	4965.6
#3	2672.3	8340.6	53250.	4935.1

Zoom In Zoom Out

Sample Name: MP28754-S2 Acquired: 4/6/2015 12:05:19 Type: Unk
Method: 60102007_041712(v218) Mode: CONC Corr. Factor: 5.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	.0432	170.7	1.888	2.520	.0539	455.9	.0457	.4656	.4057	.3014
Stddev	.0004	.4	.001	.005	.0003	.2	.0001	.0007	.0018	.0019
%RSD	1.036	.2219	.0646	.2177	.5064	.0527	.2177	.1603	.4441	.6317
#1	.0434	171.1	1.887	2.526	.0540	456.1	.0457	.4649	.4059	.3034
#2	.0436	170.6	1.888	2.519	.0536	456.0	.0456	.4664	.4074	.3012
#3	.0427	170.4	1.889	2.515	.0541	455.7	.0458	.4655	.4038	.2996

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	91.88	25.45	161.3	.8604	.3715	24.92	.5270	.6056	.1123	1.829
Stddev	.24	.06	.3	.0029	.0004	.07	.0011	.0037	.0029	.007
%RSD	.2603	.2271	.1772	.3344	.1122	.2925	.2059	.6028	2.575	.4127
#1	92.15	25.51	161.1	.8578	.3720	24.99	.5274	.6076	.1135	1.836
#2	91.75	25.40	161.1	.8635	.3712	24.93	.5258	.6014	.1090	1.821
#3	91.72	25.44	161.6	.8599	.3713	24.84	.5279	.6078	.1145	1.830

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	16.43	.4689	2.625	.3908	1.935	.5591	.5325
Stddev	.01	.0022	.009	.0006	.002	.0007	.0016
%RSD	.0714	.4752	.3251	.1521	.1116	.1187	.3069
#1	16.43	.4664	2.634	.3901	1.933	.5598	.5340
#2	16.42	.4706	2.625	.3913	1.937	.5592	.5307
#3	16.44	.4697	2.617	.3908	1.936	.5584	.5327

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	2736.2	8381.0	53412.	4968.0
Stddev	1.9	6.4	313.	43.5
%RSD	.06926	.07589	.58627	.87541
#1	2736.2	8375.1	53719.	5014.8
#2	2738.1	8387.7	53093.	4960.3
#3	2734.3	8380.1	53424.	4928.9

Zoom In Zoom Out

Sample Name: CCV Acquired: 4/6/2015 12:09:16 Type: QC
Method: 60102007_041712(v218) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2543	40.06	2.117	2.081	2.043	39.76	2.062	2.081	1.962	2.049
Stddev	.0004	.14	.000	.004	.007	.19	.001	.001	.003	.005
%RSD	.1472	.3477	.0211	.1797	.3613	.4784	.0670	.0378	.1743	.2221
#1	.2540	40.20	2.117	2.083	2.051	39.95	2.062	2.081	1.963	2.049
#2	.2547	40.07	2.117	2.082	2.041	39.78	2.061	2.080	1.959	2.053
#3	.2541	39.92	2.118	2.076	2.036	39.57	2.063	2.081	1.965	2.044
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value										
Range										

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	40.75	40.92	39.86	2.009	2.096	40.30	2.099	1.984	2.129	2.131
Stddev	.14	.08	.21	.000	.007	.13	.002	.001	.003	.001
%RSD	.3396	.1933	.5162	.0129	.3467	.3255	.1030	.0240	.1249	.0254
#1	40.88	41.00	40.03	2.009	2.089	40.44	2.101	1.984	2.131	2.131
#2	40.76	40.92	39.93	2.009	2.095	40.28	2.097	1.985	2.126	2.132
#3	40.60	40.84	39.63	2.009	2.104	40.18	2.099	1.984	2.130	2.131
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value										
Range										

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.410	2.143	2.059	2.027	2.030	2.042	2.026
Stddev	.004	.003	.006	.002	.003	.001	.002
%RSD	.1442	.1257	.2981	.1120	.1454	.0683	.0857
#1	2.413	2.145	2.065	2.027	2.029	2.044	2.026
#2	2.411	2.140	2.058	2.029	2.028	2.041	2.024
#3	2.406	2.142	2.053	2.025	2.033	2.042	2.028
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Pass
Value							
Range							

Zoom In Zoom Out

Sample Name: CCV Acquired: 4/6/2015 12:09:16 Type: QC
Method: 60102007_041712(v218) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2626.2	7117.8	45340.	4277.4
Stddev	1.5	2.6	139.	22.8
%RSD	.05651	.03694	.30620	.53294
#1	2624.7	7115.0	45302.	4258.8
#2	2626.2	7120.2	45494.	4270.6
#3	2627.7	7118.3	45224.	4302.8

Zoom In Zoom Out

Sample Name: CCB Acquired: 4/6/2015 12:13:11 Type: QC
Method: 60102007_041712(v218) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0001	-.0061	-.0004	.0000	.0002	.0048	.0002	.0002	.0000
Stddev	.0003	.0043	.0005	.0001	.0001	.0024	.0001	.0001	.0001
%RSD	571.3	71.03	113.2	449.1	60.27	50.34	45.27	52.36	165.3
#1	.0001	-.0024	.0001	-.0001	.0001	.0051	.0002	.0003	.0000
#2	-.0005	-.0050	-.0008	.0000	.0003	.0070	.0002	.0003	.0001
#3	.0001	-.0108	-.0006	.0002	.0002	.0022	.0001	.0001	.0000
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0001	.0156	.0099	-.0099	.0002	F.0028	.0280	.0000	.0005
Stddev	.0001	.0086	.0091	.0076	.0000	.0013	.0047	.0002	.0001
%RSD	234.9	54.73	91.89	76.24	12.25	48.82	16.69	342.5	21.83
#1	-.0001	.0229	.0145	-.0164	.0002	.0042	.0232	.0000	.0005
#2	-.0001	.0177	-.0006	-.0016	.0002	.0025	.0326	.0002	.0003
#3	.0001	.0062	.0158	-.0118	.0002	.0015	.0283	-.0001	.0005
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit						.0010			
Low Limit						-.0010			

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0004	.0006	.0042	.0002	.0002	.0005	-.0006	.0003	-.0002
Stddev	.0009	.0008	.0003	.0001	.0001	.0001	.0004	.0001	.0001
%RSD	215.0	138.2	6.160	57.55	45.10	14.31	55.43	45.80	32.27
#1	.0004	.0002	.0040	.0002	.0001	.0006	-.0005	.0003	-.0001
#2	-.0002	.0015	.0045	.0004	.0002	.0005	-.0003	.0003	-.0002
#3	-.0015	.0000	.0042	.0001	.0002	.0004	-.0010	.0001	-.0002
Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Zoom In Zoom Out

Sample Name: CCB Acquired: 4/6/2015 12:13:11 Type: QC
Method: 60102007_041712(v218) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3135.5	7467.5	48003.	4304.3
Stddev	6.0	11.5	37.	49.3
%RSD	.19139	.15341	.07736	1.1448
#1	3133.5	7461.0	48004.	4330.8
#2	3142.2	7480.7	47966.	4247.4
#3	3130.7	7460.8	48040.	4334.5

Zoom In
Zoom Out

Sample Name: MP28754-PS1 Acquired: 4/6/2015 12:17:22 Type: Unk
Method: 60102007_041712(v218) Mode: CONC Corr. Factor: 5.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	.0427	126.2	.1632	.9695	.0559	501.0	.0478	.0597	.2419	.1754
Stddev	.0009	.1	.0009	.0014	.0001	.9	.0001	.0002	.0013	.0002
%RSD	2.187	.1112	.5770	.1436	.2620	.1860	.3068	.4088	.5305	.1195
#1	.0432	126.2	.1643	.9679	.0558	500.8	.0478	.0594	.2415	.1754
#2	.0433	126.1	.1625	.9706	.0560	500.2	.0480	.0599	.2434	.1756
#3	.0416	126.4	.1629	.9698	.0557	502.1	.0477	.0599	.2409	.1752

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	60.39	12.61	161.5	.5029	.0860	12.63	.1599	.1759	.0826	.0944
Stddev	.07	.10	.6	.0008	.0006	.07	.0008	.0033	.0016	.0019
%RSD	.1189	.8061	.3969	.1679	.7342	.5160	.5072	1.903	1.988	2.041
#1	60.31	12.65	162.0	.5036	.0865	12.65	.1599	.1729	.0840	.0964
#2	60.45	12.49	160.8	.5031	.0862	12.55	.1591	.1795	.0808	.0943
#3	60.42	12.69	161.8	.5020	.0853	12.68	.1607	.1753	.0831	.0925

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	16.91	.0657	2.408	.2672	.1044	.1755	.3147
Stddev	.02	.0008	.001	.0001	.0034	.0011	.0004
%RSD	.1393	1.221	.0528	.0559	3.232	.6422	.1347
#1	16.89	.0666	2.408	.2671	.1006	.1760	.3151
#2	16.91	.0650	2.409	.2672	.1056	.1763	.3143
#3	16.94	.0655	2.407	.2674	.1070	.1742	.3145

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	2722.8	8478.3	53749.	5044.2
Stddev	1.9	3.2	101.	40.3
%RSD	.06950	.03826	.18791	.79852
#1	2722.4	8475.9	53752.	5044.4
#2	2721.1	8477.0	53646.	5084.4
#3	2724.9	8482.0	53848.	5003.8

Zoom In
Zoom Out

Sample Name: MP28754-SD1 Acquired: 4/6/2015 12:21:24 Type: Unk
Method: 60102007_041712(v218) Mode: CONC Corr. Factor: 25.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	.0003	287.5	.1467	1.686	.0191	1155.	.0006	.0281	.4570	.1714
Stddev	.0041	.3	.0027	.004	.0013	1.	.0003	.0017	.0060	.0046
%RSD	1189.	.1170	1.851	.2393	6.557	.0680	47.25	5.947	1.316	2.674
#1	.0049	287.8	.1497	1.690	.0205	1156.	.0006	.0287	.4566	.1753
#2	-.0008	287.4	.1459	1.683	.0183	1154.	.0008	.0294	.4513	.1725
#3	-.0031	287.1	.1445	1.685	.0184	1155.	.0003	.0262	.4633	.1663

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	135.4	5.959	367.9	1.057	-.0563	5.536	.1418	.2477	-.0765	-.0263
Stddev	.2	.560	1.2	.001	.0017	.056	.0013	.0039	.0254	.0359
%RSD	.1343	9.389	.3289	.1336	2.980	1.019	.9236	1.558	33.16	136.4
#1	135.5	6.144	368.1	1.058	-.0559	5.548	.1423	.2444	-.0634	.0108
#2	135.2	5.330	366.6	1.057	-.0581	5.585	.1428	.2468	-.0603	-.0290
#3	135.6	6.403	369.0	1.055	-.0548	5.474	.1403	.2520	-.1057	-.0608

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	43.90	.0273	5.421	.4773	-.0204	.2977	.1851
Stddev	.16	.0041	.011	.0082	.0092	.0022	.0014
%RSD	.3752	14.90	.2101	1.725	45.00	.7504	.7348
#1	44.09	.0264	5.428	.4865	-.0243	.2975	.1838
#2	43.77	.0238	5.408	.4706	-.0269	.2956	.1850
#3	43.85	.0318	5.427	.4749	-.0099	.3001	.1865

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	2869.5	7896.2	50393.	4575.6
Stddev	3.8	8.8	87.	7.6
%RSD	.13390	.11186	.17330	.16554
#1	2866.1	7886.6	50309.	4571.2
#2	2873.7	7898.2	50387.	4571.2
#3	2868.7	7903.9	50483.	4584.3

Zoom In
Zoom Out

Sample Name: FA23243-20 Acquired: 4/6/2015 12:25:29 Type: Unk
Method: 60102007_041712(v218) Mode: CONC Corr. Factor: 5.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	-.0008	86.03	.0526	.6976	.0067	96.13	.0008	.0082	.1574	.5348
Stddev	.0007	.28	.0034	.0014	.0003	.32	.0001	.0003	.0012	.0007
%RSD	87.14	.3212	6.448	.1997	4.968	.3361	15.98	3.064	.7374	.1364
#1	-.0011	86.29	.0549	.6989	.0067	96.41	.0007	.0085	.1575	.5341
#2	.0000	86.06	.0487	.6978	.0064	96.20	.0009	.0080	.1586	.5347
#3	-.0013	85.74	.0541	.6962	.0070	95.78	.0009	.0082	.1563	.5356

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	40.18	1.792	29.50	.6065	-.0098	1.071	.0401	.2006	-.0151	-.0010
Stddev	.16	.109	.18	.0009	.0006	.014	.0004	.0016	.0016	.0057
%RSD	.4022	6.060	.5982	.1478	5.966	1.268	.9772	.8004	10.87	542.2
#1	40.36	1.911	29.68	.6063	-.0092	1.086	.0398	.1993	-.0141	-.0043
#2	40.10	1.770	29.49	.6075	-.0099	1.060	.0400	.2000	-.0170	.0055
#3	40.07	1.697	29.32	.6058	-.0103	1.068	.0405	.2024	-.0142	-.0043

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	11.68	.0206	1.601	.1104	-.0056	.0586	.1035
Stddev	.01	.0004	.004	.0002	.0017	.0006	.0003
%RSD	.1147	2.172	.2795	.1651	29.59	1.036	.2650
#1	11.70	.0201	1.604	.1102	-.0053	.0586	.1032
#2	11.67	.0207	1.603	.1106	-.0042	.0592	.1035
#3	11.69	.0210	1.596	.1105	-.0075	.0580	.1038

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	2952.8	8471.7	53894.	4914.0
Stddev	3.3	1.7	63.	43.4
%RSD	.11195	.01959	.11620	.88335
#1	2953.9	8472.7	53966.	4882.1
#2	2949.1	8469.8	53851.	4896.3
#3	2955.4	8472.6	53865.	4963.4

Zoom In
Zoom Out

Sample Name: FA23243-21 Acquired: 4/6/2015 12:29:32 Type: Unk
Method: 60102007_041712(v218) Mode: CONC Corr. Factor: 5.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	-.0001	192.4	.0870	.9770	.0089	799.3	.0012	.0207	.3496	.0381
Stddev	.0012	.4	.0025	.0004	.0004	1.8	.0001	.0002	.0023	.0011
%RSD	2046.	.1984	2.847	.0424	3.937	.2288	7.753	1.101	.6717	2.850
#1	-.0014	192.8	.0893	.9774	.0093	800.5	.0011	.0205	.3513	.0387
#2	.0009	192.0	.0844	.9766	.0090	797.2	.0013	.0207	.3469	.0388
#3	.0004	192.5	.0874	.9771	.0086	800.2	.0013	.0209	.3506	.0369

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	97.55	4.664	230.4	.6476	-.0097	4.561	.1023	.1610	-.0154	-.0022
Stddev	.17	.068	.4	.0019	.0003	.026	.0004	.0024	.0038	.0019
%RSD	.1693	1.457	.1652	.2980	3.166	.5799	.4105	1.469	24.60	87.07
#1	97.65	4.730	230.2	.6474	-.0098	4.570	.1020	.1594	-.0192	-.0017
#2	97.36	4.669	230.1	.6457	-.0099	4.531	.1028	.1597	-.0116	-.0043
#3	97.64	4.594	230.8	.6496	-.0094	4.582	.1022	.1637	-.0154	-.0006

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	11.80	.0203	3.068	.5424	-.0040	.2300	.1695
Stddev	.00	.0020	.010	.0016	.0069	.0008	.0004
%RSD	.0086	9.765	.3163	.2973	172.9	.3585	.2085
#1	11.80	.0183	3.077	.5416	-.0012	.2294	.1691
#2	11.80	.0204	3.058	.5414	-.0119	.2310	.1696
#3	11.80	.0223	3.070	.5443	.0011	.2297	.1698

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	2641.9	8681.3	54275.	5123.4
Stddev	4.4	2.7	87.	21.2
%RSD	.16621	.03098	.16100	.41472
#1	2640.3	8679.1	54177.	5147.9
#2	2646.9	8680.5	54344.	5112.4
#3	2638.6	8684.3	54304.	5110.0

Zoom In Zoom Out

Sample Name: FA23243-22 Acquired: 4/6/2015 12:33:35 Type: Unk
Method: 60102007_041712(v218) Mode: CONC Corr. Factor: 5.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	.0002	155.6	.0785	.7799	.0072	794.8	.0009	.0164	.2869	.0174
Stddev	.0003	1.2	.0010	.0026	.0002	6.3	.0001	.0002	.0001	.0009
%RSD	138.3	.7481	1.253	.3371	2.746	.7889	14.40	.9424	.0432	4.996
#1	-.0001	154.3	.0773	.7773	.0070	787.6	.0010	.0164	.2870	.0168
#2	.0005	156.4	.0792	.7799	.0073	798.5	.0007	.0162	.2868	.0169
#3	.0002	156.2	.0788	.7826	.0074	798.4	.0009	.0165	.2869	.0184

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	80.44	3.740	208.8	.6131	-.0108	3.894	.0814	.1165	-.0149	-.0041
Stddev	.53	.049	1.7	.0014	.0005	.018	.0002	.0016	.0024	.0045
%RSD	.6591	1.295	.8229	.2217	4.451	.4661	.1985	1.384	16.41	109.2
#1	79.87	3.792	206.9	.6135	-.0104	3.874	.0816	.1178	-.0163	-.0092
#2	80.53	3.696	210.1	.6116	-.0113	3.907	.0814	.1147	-.0121	-.0012
#3	80.92	3.732	209.4	.6142	-.0108	3.903	.0812	.1171	-.0163	-.0018

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	12.03	.0176	2.420	.4821	-.0060	.1931	.1136
Stddev	.02	.0013	.009	.0017	.0009	.0013	.0001
%RSD	.2014	7.581	.3562	.3506	15.35	.6862	.0672
#1	12.06	.0172	2.410	.4829	-.0065	.1945	.1135
#2	12.02	.0190	2.425	.4801	-.0065	.1928	.1137
#3	12.01	.0164	2.425	.4832	-.0049	.1919	.1136

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	2653.6	8422.6	53067.	4964.1
Stddev	2.9	4.3	24.	57.9
%RSD	.10741	.05120	.04596	1.1664
#1	2654.3	8420.0	53051.	5030.5
#2	2656.0	8427.6	53095.	4923.6
#3	2650.4	8420.3	53054.	4938.4

Zoom In Zoom Out

Sample Name: FA23243-23 Acquired: 4/6/2015 12:37:39 Type: Unk
Method: 60102007_041712(v218) Mode: CONC Corr. Factor: 5.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	.0007	170.0	.1884	.7745	.0080	1056.	.0029	.0259	.3644	.2601
Stddev	.0006	.0	.0028	.0016	.0003	1.	.0000	.0004	.0022	.0014
%RSD	90.17	.0172	1.465	.2050	3.798	.0493	.7577	1.486	.6146	.5373
#1	.0003	170.0	.1870	.7742	.0082	1055.	.0029	.0261	.3670	.2587
#2	.0004	170.1	.1866	.7763	.0080	1056.	.0029	.0255	.3630	.2600
#3	.0014	170.0	.1916	.7732	.0076	1056.	.0029	.0262	.3632	.2615

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	104.8	6.886	352.4	1.064	.0037	6.401	.1321	.1412	-.0102	.0051
Stddev	.0	.120	1.2	.003	.0005	.011	.0003	.0024	.0011	.0065
%RSD	.0430	1.741	.3290	.2995	12.73	.1648	.2625	1.723	10.32	127.6
#1	104.7	6.986	351.1	1.068	.0037	6.401	.1319	.1384	-.0099	-.0023
#2	104.8	6.918	353.3	1.062	.0041	6.390	.1320	.1426	-.0094	.0097
#3	104.8	6.753	352.8	1.062	.0032	6.411	.1325	.1427	-.0114	.0079

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	13.71	.0200	3.048	.5691	-.0046	.3968	.3246
Stddev	.02	.0025	.004	.0008	.0017	.0015	.0002
%RSD	.1255	12.33	.1228	.1444	36.38	.3825	.0713
#1	13.72	.0184	3.051	.5701	-.0048	.3978	.3248
#2	13.69	.0187	3.049	.5688	-.0028	.3951	.3246
#3	13.70	.0228	3.044	.5686	-.0061	.3976	.3244

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	2576.4	8574.0	53339.	5081.2
Stddev	3.8	10.0	279.	34.1
%RSD	.14725	.11626	.52278	.67042
#1	2574.4	8568.4	53030.	5112.7
#2	2574.0	8568.1	53572.	5085.9
#3	2580.7	8585.5	53414.	5045.1

Zoom In Zoom Out

Sample Name: FA23243-24 Acquired: 4/6/2015 12:41:42 Type: Unk
Method: 60102007_041712(v218) Mode: CONC Corr. Factor: 5.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	-.0012	155.7	.1068	.7521	.0067	779.1	.0020	.0163	.3191	.3083
Stddev	.0022	.5	.0014	.0027	.0002	2.7	.0001	.0003	.0005	.0023
%RSD	183.2	.2915	1.344	.3649	2.577	.3406	4.203	1.752	.1708	.7348
#1	.0005	155.9	.1053	.7528	.0065	779.3	.0020	.0167	.3193	.3096
#2	-.0037	156.1	.1069	.7545	.0068	781.7	.0021	.0161	.3194	.3096
#3	-.0004	155.2	.1081	.7491	.0068	776.4	.0019	.0162	.3184	.3056

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	87.62	4.746	227.1	.8881	.0010	4.493	.0821	.1391	-.0154	-.0030
Stddev	.32	.135	1.1	.0014	.0008	.044	.0005	.0006	.0013	.0034
%RSD	.3615	2.847	.4813	.1613	79.88	.9701	.6132	.4501	8.361	113.3
#1	87.34	4.832	227.3	.8865	.0018	4.502	.0823	.1398	-.0140	-.0037
#2	87.96	4.815	228.2	.8890	.0003	4.531	.0824	.1387	-.0164	.0007
#3	87.56	4.590	226.0	.8889	.0007	4.446	.0815	.1387	-.0159	-.0061

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	13.83	.0196	2.781	.4963	-.0050	.2500	.2135
Stddev	.02	.0012	.007	.0019	.0004	.0026	.0002
%RSD	.1197	6.090	.2402	.3814	8.968	1.040	.1116
#1	13.85	.0198	2.782	.4962	-.0054	.2485	.2137
#2	13.82	.0182	2.787	.4983	-.0051	.2485	.2133
#3	13.81	.0206	2.774	.4945	-.0045	.2530	.2134

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	2644.3	8415.8	52282.	4923.7
Stddev	4.8	11.6	267.	28.2
%RSD	.18060	.13770	.51159	.57313
#1	2639.3	8403.1	52586.	4907.5
#2	2644.9	8418.4	52082.	4907.3
#3	2648.8	8425.9	52178.	4956.3

Zoom In Zoom Out

Sample Name: FA23243-25 Acquired: 4/6/2015 12:45:46 Type: Unk
Method: 60102007_041712(v218) Mode: CONC Corr. Factor: 5.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	-.0012	145.4	.0847	1.043	.0072	600.4	.0017	.0165	.2997	.4973
Stddev	.0009	.3	.0008	.004	.0004	1.7	.0001	.0004	.0018	.0008
%RSD	74.38	.1766	.9774	.3777	5.964	.2759	3.306	2.590	.5916	.1673
#1	-.0013	145.1	.0839	1.039	.0077	598.6	.0016	.0170	.3016	.4969
#2	-.0021	145.6	.0856	1.046	.0069	601.9	.0017	.0166	.2980	.4968
#3	-.0003	145.4	.0846	1.043	.0071	600.6	.0017	.0161	.2996	.4983

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	79.97	4.031	103.8	1.003	-.0082	3.895	.0670	.2027	-.0093	-.0056
Stddev	.15	.133	.3	.002	.0007	.050	.0003	.0023	.0053	.0038
%RSD	.1827	3.300	.3294	.1508	8.200	1.283	.3867	1.153	57.22	66.69
#1	79.80	3.940	103.4	1.004	-.0077	3.847	.0670	.2045	-.0123	-.0031
#2	80.04	3.970	104.0	1.001	-.0089	3.947	.0667	.2036	-.0032	-.0100
#3	80.06	4.184	104.0	1.002	-.0079	3.891	.0672	.2001	-.0125	-.0038

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	10.38	.0204	4.196	.3036	-.0007	.1608	.2499
Stddev	.02	.0013	.014	.0003	.0061	.0006	.0013
%RSD	.2081	6.555	.3368	.0979	837.9	.4040	.5251
#1	10.39	.0210	4.182	.3039	-.0021	.1614	.2507
#2	10.36	.0214	4.211	.3034	.0059	.1610	.2484
#3	10.40	.0189	4.197	.3034	-.0060	.1601	.2507

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	2720.1	8601.0	53008.	5001.0
Stddev	6.1	20.7	101.	12.4
%RSD	.22340	.24040	.19017	.24856
#1	2716.6	8585.7	52915.	4994.8
#2	2727.1	8624.5	52993.	4992.9
#3	2716.6	8592.9	53115.	5015.3

Zoom In
Zoom Out

Sample Name: FA23243-26 Acquired: 4/6/2015 12:49:48 Type: Unk
Method: 60102007_041712(v218) Mode: CONC Corr. Factor: 5.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	-.0001	161.1	.0562	1.194	.0083	282.0	.0012	.0156	.3023	.4737
Stddev	.0014	.7	.0011	.005	.0000	.9	.0000	.0004	.0008	.0007
%RSD	1392.	.4141	1.926	.4172	.4609	.3025	3.312	2.690	.2672	.1524
#1	-.0006	161.8	.0567	1.200	.0083	283.0	.0012	.0153	.3025	.4742
#2	.0015	160.9	.0549	1.193	.0082	281.7	.0012	.0161	.3029	.4739
#3	-.0012	160.5	.0569	1.190	.0082	281.3	.0011	.0154	.3014	.4729

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	83.23	2.771	59.39	.5343	-.0102	1.723	.0600	.2142	-.0138	-.0018
Stddev	.30	.044	.31	.0031	.0002	.001	.0004	.0024	.0034	.0058
%RSD	.3570	1.607	.5231	.5895	2.383	.0380	.7389	1.140	24.46	331.7
#1	83.49	2.756	59.44	.5366	-.0105	1.723	.0596	.2116	-.0099	-.0046
#2	82.90	2.821	59.06	.5355	-.0100	1.724	.0599	.2164	-.0160	-.0056
#3	83.29	2.737	59.67	.5307	-.0100	1.722	.0605	.2145	-.0154	.0049

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	9.083	.0213	3.427	.2749	-.0047	.1352	.1916
Stddev	.004	.0013	.014	.0010	.0007	.0003	.0000
%RSD	.0471	6.028	.4032	.3724	15.52	.2260	.0128
#1	9.079	.0208	3.442	.2760	-.0049	.1355	.1916
#2	9.082	.0204	3.425	.2746	-.0053	.1349	.1915
#3	9.088	.0228	3.415	.2740	-.0039	.1354	.1916

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	2822.0	8659.9	54040.	4944.0
Stddev	2.4	14.2	254.	15.8
%RSD	.08577	.16410	.46996	.31899
#1	2821.2	8657.9	54049.	4931.5
#2	2820.1	8646.8	53781.	4961.8
#3	2824.7	8675.0	54289.	4938.8

Zoom In
Zoom Out

Sample Name: FA23243-27 Acquired: 4/6/2015 12:53:52 Type: Unk
Method: 60102007_041712(v218) Mode: CONC Corr. Factor: 5.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	-.0021	126.2	.0877	.7007	.0072	1998.	.0015	.0145	.2930	.0243
Stddev	.0008	.4	.0027	.0028	.0003	23.	.0001	.0002	.0005	.0009
%RSD	36.89	.3172	3.031	.3962	3.524	1.158	6.868	1.301	.1658	3.823
#1	-.0030	126.5	.0908	.7008	.0075	1994.	.0016	.0144	.2930	.0251
#2	-.0020	126.2	.0862	.7035	.0072	1976.	.0014	.0143	.2935	.0244
#3	-.0014	125.7	.0862	.6979	.0070	2022.	.0015	.0147	.2925	.0233

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	78.64	4.515	434.1	1.501	-.0041	14.75	.0786	.0907	-.0065	-.0091
Stddev	.02	.089	2.0	.006	.0004	.06	.0009	.0008	.0014	.0040
%RSD	.0254	1.971	.4580	.4140	8.663	.3928	1.111	.9347	20.90	43.63
#1	78.63	4.494	434.4	1.507	-.0046	14.80	.0795	.0910	-.0050	-.0118
#2	78.66	4.613	431.9	1.501	-.0040	14.69	.0778	.0897	-.0076	-.0111
#3	78.62	4.439	435.9	1.495	-.0039	14.76	.0784	.0913	-.0068	-.0045

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	9.318	.0171	7.877	.5238	-.0086	.2878	.1052
Stddev	.006	.0014	.022	.0016	.0020	.0010	.0001
%RSD	.0642	7.933	.2760	.3000	23.84	.3600	.1305
#1	9.325	.0185	7.891	.5253	-.0105	.2870	.1052
#2	9.316	.0170	7.889	.5238	-.0088	.2889	.1050
#3	9.313	.0158	7.852	.5222	-.0064	.2873	.1053

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	2439.4	8360.5	51787.	5001.8
Stddev	3.3	5.8	164.	51.0
%RSD	.13544	.06909	.31683	1.0190
#1	2440.6	8354.2	51640.	4981.9
#2	2435.6	8361.7	51755.	5059.8
#3	2441.8	8365.6	51964.	4963.9

Zoom In
Zoom Out

Sample Name: CCV Acquired: 4/6/2015 12:58:03 Type: QC
Method: 60102007_041712(v218) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2556	41.03	2.095	2.090	2.071	40.65	2.072	2.088	2.008	2.075
Stddev	.0010	.26	.003	.012	.012	.26	.001	.001	.005	.003
%RSD	.3851	.6337	.1252	.5717	.6000	.6471	.0558	.0389	.2506	.1416
#1	.2556	40.79	2.098	2.081	2.062	40.44	2.071	2.087	2.007	2.075
#2	.2545	41.31	2.094	2.104	2.085	40.95	2.071	2.089	2.013	2.072
#3	.2565	40.99	2.094	2.086	2.066	40.58	2.073	2.088	2.003	2.078
Check ?	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass
Value																				
Range																				

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	41.32	41.48	40.15	2.020	2.098	41.24	2.090	2.003	2.116	2.108
Stddev	.27	.26	.20	.010	.007	.24	.001	.001	.004	.001
%RSD	.6650	.6347	.4968	.5080	.3416	.5810	.0502	.0439	.2072	.0298
#1	41.07	41.27	39.97	2.028	2.090	41.06	2.091	2.004	2.112	2.107
#2	41.61	41.77	40.36	2.009	2.099	41.51	2.091	2.002	2.121	2.108
#3	41.26	41.40	40.11	2.024	2.104	41.15	2.089	2.004	2.115	2.108
Check ?	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass
Value																				
Range																				

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.387	2.118	2.092	2.054	2.051	2.057	2.037
Stddev	.001	.001	.011	.002	.005	.002	.002
%RSD	.0571	.0247	.5239	.0929	.2565	.0731	.1004
#1	2.387	2.118	2.084	2.053	2.052	2.058	2.034
#2	2.389	2.119	2.105	2.053	2.045	2.058	2.037
#3	2.386	2.119	2.088	2.056	2.055	2.055	2.038
Check ?	None	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass
Value											
Range											

Zoom In
Zoom Out

Sample Name: CCV Acquired: 4/6/2015 12:58:03 Type: QC
Method: 60102007_041712(v218) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2600.6	7093.9	44541.	4146.4
Stddev	2.0	9.9	121.	52.4
%RSD	.07507	.14009	.27153	1.2629
#1	2599.7	7103.4	44503.	4205.3
#2	2599.2	7083.5	44443.	4105.1
#3	2602.8	7094.7	44676.	4128.8

Zoom In Zoom Out

Sample Name: CCB Acquired: 4/6/2015 13:02:01 Type: QC
Method: 60102007_041712(v218) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000	-.0018	-.0006	.0001	.0002	.0115	.0001	.0001	-.0002
Stddev	.000	.0098	.0004	.0002	.0000	.0032	.0000	.0001	.0001
%RSD	865.7	554.0	63.25	224.4	18.37	27.49	30.71	69.25	40.36
#1	-.0001	.0095	-.0008	.0002	.0003	.0092	.0001	.0002	-.0003
#2	.0000	-.0067	-.0002	.0000	.0002	.0102	.0001	.0002	-.0003
#3	.0000	-.0081	-.0008	.0000	.0002	.0151	.0001	.0000	-.0001
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000	.0174	-.0099	-.0257	.0002	F.0029	.0224	.0001	F.0010
Stddev	.000	.0102	.0126	.0162	.0000	.0014	.0006	.0001	.0001
%RSD	377.9	58.63	127.3	62.88	9.238	49.64	2.906	118.6	8.236
#1	.0001	.0278	-.0168	-.0439	.0002	.0044	.0217	.0002	.0011
#2	.0000	.0168	.0046	-.0200	.0002	.0028	.0230	.0001	.0010
#3	-.0001	.0075	-.0174	-.0131	.0002	.0015	.0223	.0000	.0010
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Fail
High Limit						.0010			.0010
Low Limit						-.0010			-.0010

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0003	.0001	.0045	.0000	.0002	.0005	-.0011	.0002	-.0003
Stddev	.0006	.0002	.0002	.000	.0000	.0001	.0003	.0001	.0001
%RSD	234.3	138.3	4.552	1696.	5.499	11.07	27.23	30.06	21.57
#1	.0009	.0003	.0043	.0004	.0001	.0006	-.0008	.0003	-.0002
#2	-.0001	.0001	.0047	-.0001	.0002	.0005	-.0013	.0002	-.0002
#3	.0000	.0000	.0045	-.0003	.0002	.0005	-.0013	.0003	-.0003
Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Zoom In Zoom Out

Sample Name: CCB Acquired: 4/6/2015 13:02:01 Type: QC
Method: 60102007_041712(v218) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3106.4	7461.3	47045.	4208.6
Stddev	6.2	18.9	185.	38.0
%RSD	.20114	.25313	.39301	.90273
#1	3112.8	7483.1	46832.	4246.2
#2	3100.3	7450.3	47166.	4170.2
#3	3106.0	7450.5	47137.	4209.2

Zoom In Zoom Out

Sample Name: FA23243-28 Acquired: 4/6/2015 13:06:14 Type: Unk
Method: 60102007_041712(v218) Mode: CONC Corr. Factor: 5.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	-.0018	99.09	.1018	.4990	.0065	1769.	.0022	.0128	.2757	.0053
Stddev	.0015	.04	.0026	.0014	.0003	13.	.0001	.0005	.0010	.0007
%RSD	82.47	.0454	2.530	.2825	4.349	.7167	5.601	3.534	.3562	13.11
#1	-.0029	99.13	.1002	.5006	.0062	1773.	.0023	.0125	.2767	.0060
#2	-.0001	99.04	.1047	.4979	.0065	1779.	.0021	.0127	.2747	.0054
#3	-.0023	99.10	.1004	.4985	.0068	1754.	.0021	.0133	.2758	.0046

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	67.95	4.665	541.6	1.905	.0001	14.38	.0799	.0809	-.0138	-.0075
Stddev	.26	.074	1.4	.002	.0005	.03	.0001	.0026	.0005	.0068
%RSD	.3843	1.578	.2513	.1150	474.0	.1811	.0715	3.240	3.555	89.75
#1	68.07	4.652	540.9	1.905	.0003	14.35	.0798	.0840	-.0140	-.0103
#2	67.65	4.599	540.7	1.908	.0005	14.40	.0799	.0792	-.0142	.0002
#3	68.12	4.744	543.1	1.904	-.0004	14.39	.0798	.0796	-.0132	-.0125

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	9.177	.0159	4.547	.5512	-.0087	.2968	.1070
Stddev	.016	.0005	.011	.0006	.0014	.0004	.0002
%RSD	.1738	3.385	.2450	.1093	15.93	.1263	.1531
#1	9.175	.0154	4.549	.5515	-.0080	.2970	.1071
#2	9.194	.0159	4.535	.5516	-.0078	.2969	.1071
#3	9.162	.0165	4.557	.5505	-.0103	.2963	.1068

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	2439.6	8682.6	54049.	5209.1
Stddev	2.8	12.2	101.	8.8
%RSD	.11538	.14045	.18604	.16798
#1	2437.1	8673.5	54017.	5218.7
#2	2442.7	8677.8	54162.	5201.6
#3	2439.0	8696.4	53968.	5206.9

Zoom In Zoom Out

Sample Name: FA23243-29 Acquired: 4/6/2015 13:10:27 Type: Unk
Method: 60102007_041712(v218) Mode: CONC Corr. Factor: 5.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	-.0017	76.74	.0125	.6614	.0048	71.12	.0001	.0054	.1143	.0273
Stddev	.0011	.32	.0010	.0020	.0003	.19	.0001	.0003	.0007	.0005
%RSD	66.25	.4159	8.177	.2949	6.022	.2702	171.7	5.332	.6269	1.977
#1	-.0007	76.43	.0113	.6633	.0050	70.98	.0002	.0052	.1146	.0273
#2	-.0014	77.06	.0133	.6615	.0050	71.34	.0000	.0057	.1149	.0267
#3	-.0029	76.72	.0127	.6594	.0045	71.04	.0000	.0053	.1135	.0278

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	30.23	1.772	13.82	.1449	-.0084	1.221	.0390	.1199	-.0149	.0073
Stddev	.04	.042	.09	.0007	.0001	.016	.0007	.0028	.0006	.0007
%RSD	.1385	2.366	.6546	.4989	1.689	1.330	1.719	2.348	3.709	9.358
#1	30.26	1.815	13.75	.1456	-.0084	1.235	.0397	.1173	-.0151	.0080
#2	30.24	1.731	13.92	.1447	-.0082	1.203	.0383	.1194	-.0152	.0070
#3	30.18	1.769	13.78	.1442	-.0085	1.223	.0390	.1229	-.0142	.0068

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	12.54	.0201	1.408	.1359	-.0046	.0651	.0731
Stddev	.00	.0014	.001	.0004	.0032	.0013	.0004
%RSD	.0342	7.190	.1016	.2749	69.64	1.975	.5624
#1	12.54	.0217	1.407	.1362	-.0018	.0665	.0727
#2	12.54	.0188	1.410	.1360	-.0081	.0650	.0735
#3	12.54	.0198	1.407	.1355	-.0039	.0639	.0732

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	2969.9	8251.3	51377.	4679.1
Stddev	2.5	4.8	213.	28.3
%RSD	.08350	.05764	.41444	.60521
#1	2969.0	8256.7	51205.	4709.2
#2	2968.1	8248.0	51310.	4653.0
#3	2972.7	8249.1	51615.	4675.0

Zoom In Zoom Out

Sample Name: FA23243-30 Acquired: 4/6/2015 13:14:32 Type: Unk
Method: 60102007_041712(v218) Mode: CONC Corr. Factor: 5.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	-.0005	219.5	.0623	1.327	.0129	233.8	.0020	.0259	.4123	.0106
Stddev	.0005	.3	.0013	.004	.0001	.4	.0001	.0001	.0015	.0006
%RSD	112.4	.1360	2.060	.2861	.7115	.1778	5.251	.3844	.3599	5.713
#1	-.0011	219.5	.0621	1.328	.0128	233.7	.0020	.0260	.4108	.0102
#2	.0000	219.3	.0637	1.322	.0128	233.5	.0018	.0259	.4138	.0113
#3	-.0003	219.8	.0611	1.329	.0130	234.3	.0020	.0259	.4124	.0104

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	144.5	3.754	32.41	.2647	.0033	2.817	.0847	.1648	-.0182	.0053
Stddev	.4	.069	.11	.0003	.0001	.027	.0008	.0004	.0016	.0043
%RSD	.2694	1.827	.3488	.1149	2.057	.9453	.9536	.2333	8.636	81.61
#1	144.1	3.761	32.51	.2650	.0033	2.791	.0854	.1646	-.0195	.0030
#2	144.6	3.682	32.29	.2646	.0034	2.816	.0847	.1652	-.0187	.0026
#3	144.8	3.819	32.44	.2645	.0034	2.844	.0838	.1645	-.0165	.0102

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	9.715	.0205	3.504	.3213	-.0039	.3993	.0868
Stddev	.006	.0008	.003	.0006	.0041	.0023	.0002
%RSD	.0574	3.879	.0766	.1997	105.4	.5813	.2234
#1	9.712	.0209	3.505	.3211	-.0023	.3967	.0868
#2	9.712	.0196	3.501	.3208	-.0086	.4010	.0869
#3	9.721	.0211	3.506	.3220	-.0009	.4003	.0865

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	2812.6	9215.8	57053.	5276.4
Stddev	6.3	10.2	145.	18.7
%RSD	.22291	.11060	.25341	.35378
#1	2814.2	9215.0	57188.	5255.9
#2	2805.7	9206.1	56901.	5292.4
#3	2818.0	9226.4	57070.	5280.7

Zoom In Zoom Out

Sample Name: FA23243-31 Acquired: 4/6/2015 13:18:35 Type: Unk
Method: 60102007_041712(v218) Mode: CONC Corr. Factor: 5.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	-.0008	263.7	.0806	1.388	.0123	405.6	.0020	.0288	.4784	.0076
Stddev	.0016	.1	.0021	.006	.0004	.3	.0002	.0004	.0021	.0010
%RSD	196.2	.0308	2.574	.4015	3.104	.0795	8.931	1.307	.4319	12.75
#1	-.0027	263.8	.0789	1.393	.0127	405.8	.0022	.0289	.4807	.0072
#2	.0003	263.6	.0799	1.382	.0119	405.8	.0018	.0284	.4771	.0087
#3	-.0001	263.7	.0829	1.390	.0123	405.3	.0021	.0292	.4772	.0068

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	143.1	5.644	93.74	.3577	.0016	4.502	.0900	.1772	-.0163	.0066
Stddev	.2	.056	.37	.0015	.0005	.032	.0003	.0012	.0033	.0013
%RSD	.1240	.9851	.3946	.4209	31.77	.7069	.3131	.6575	20.41	19.97
#1	143.3	5.697	93.46	.3586	.0010	4.501	.0897	.1784	-.0154	.0074
#2	142.9	5.586	94.16	.3585	.0020	4.534	.0900	.1761	-.0201	.0051
#3	143.0	5.650	93.60	.3559	.0019	4.471	.0902	.1769	-.0136	.0074

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	8.941	.0202	4.133	.4673	-.0081	.4588	.0995
Stddev	.008	.0010	.002	.0009	.0031	.0016	.0004
%RSD	.0925	4.941	.0587	.1876	38.19	.3445	.3989
#1	8.934	.0191	4.134	.4683	-.0086	.4592	.0998
#2	8.950	.0205	4.130	.4671	-.0048	.4602	.0990
#3	8.940	.0210	4.135	.4666	-.0109	.4571	.0997

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	2727.2	9108.0	56167.	5198.4
Stddev	6.9	15.0	70.	14.4
%RSD	.25219	.16446	.12537	.27672
#1	2722.4	9107.7	56088.	5205.2
#2	2735.1	9123.1	56191.	5181.9
#3	2724.0	9093.1	56222.	5208.1

Zoom In Zoom Out

Sample Name: FA23243-32 Acquired: 4/6/2015 13:22:39 Type: Unk
Method: 60102007_041712(v218) Mode: CONC Corr. Factor: 5.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	-.0026	101.7	.0270	.9164	.0072	129.6	.0007	.0072	.1913	.0128
Stddev	.0011	.2	.0006	.0014	.0003	.4	.0000	.0002	.0002	.0007
%RSD	44.40	.1861	2.103	.1562	3.920	.2710	5.863	2.341	.1303	5.445
#1	-.0035	101.9	.0272	.9163	.0073	129.8	.0008	.0074	.1912	.0122
#2	-.0013	101.5	.0263	.9150	.0069	129.2	.0007	.0071	.1911	.0127
#3	-.0029	101.8	.0274	.9179	.0074	129.8	.0007	.0072	.1915	.0136

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	46.80	1.404	14.28	.1823	-.0095	1.370	.0404	.1020	-.0148	.0002
Stddev	.15	.036	.13	.0009	.0007	.014	.0004	.0017	.0043	.0049
%RSD	.3241	2.541	.9326	.5146	7.235	1.051	.9538	1.671	29.31	2169.
#1	46.87	1.426	14.13	.1833	-.0103	1.364	.0401	.1004	-.0144	.0059
#2	46.63	1.363	14.30	.1821	-.0089	1.387	.0402	.1019	-.0106	-.0026
#3	46.91	1.422	14.40	.1815	-.0093	1.360	.0408	.1038	-.0193	-.0027

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	11.95	.0166	2.251	.1852	-.0063	.0950	.0575
Stddev	.01	.0006	.006	.0003	.0005	.0005	.0002
%RSD	.0452	3.870	.2751	.1871	7.940	.5472	.3405
#1	11.96	.0169	2.254	.1854	-.0069	.0945	.0573
#2	11.95	.0171	2.243	.1848	-.0062	.0955	.0574
#3	11.96	.0159	2.254	.1854	-.0059	.0948	.0577

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	2904.7	9174.3	57212.	5219.7
Stddev	1.0	5.8	230.	22.1
%RSD	.03579	.06360	.40149	.42284
#1	2905.5	9168.4	57305.	5241.1
#2	2905.0	9180.1	56950.	5221.0
#3	2903.5	9174.3	57380.	5197.0

Zoom In Zoom Out

Sample Name: FA23243-33 Acquired: 4/6/2015 13:26:44 Type: Unk
Method: 60102007_041712(v218) Mode: CONC Corr. Factor: 10.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	-.0029	245.5	.0618	1.725	.0122	291.7	.0003	.0181	.4645	.0032
Stddev	.0016	.3	.0005	.009	.0003	.3	.0002	.0002	.0022	.0022
%RSD	54.48	.1236	.7991	.5126	2.648	.1058	70.09	.8636	.4791	66.57
#1	-.0011	245.4	.0624	1.715	.0126	291.8	.0003	.0180	.4661	.0057
#2	-.0037	245.2	.0616	1.730	.0119	291.3	.0005	.0183	.4620	.0016
#3	-.0040	245.8	.0615	1.731	.0122	291.9	.0001	.0181	.4655	.0024

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	120.9	2.879	35.39	.2683	-.0191	4.536	.0820	.1355	-.0312	-.0111
Stddev	.1	.139	.62	.0008	.0009	.046	.0012	.0024	.0052	.0033
%RSD	.0762	4.838	1.743	.3063	4.477	1.005	1.496	1.774	16.56	30.07
#1	120.9	2.734	35.60	.2678	-.0184	4.528	.0809	.1342	-.0268	-.0108
#2	120.7	2.891	34.70	.2679	-.0188	4.495	.0818	.1383	-.0369	-.0145
#3	120.9	3.012	35.88	.2693	-.0200	4.585	.0833	.1340	-.0299	-.0079

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	9.873	.0125	4.837	.4100	-.0080	.2582	.1167
Stddev	.005	.0018	.009	.0011	.0019	.0027	.0015
%RSD	.0509	14.57	.1905	.2792	23.85	1.039	1.307
#1	9.871	.0142	4.828	.4092	-.0086	.2568	.1150
#2	9.869	.0106	4.836	.4096	-.0095	.2566	.1174
#3	9.878	.0126	4.847	.4113	-.0058	.2613	.1179

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	2891.0	8666.0	54078.	4921.1
Stddev	5.4	8.6	241.	21.4
%RSD	.18669	.09896	.44606	.43398
#1	2886.9	8675.1	54077.	4906.5
#2	2897.1	8664.8	54320.	4945.6
#3	2889.2	8658.0	53837.	4911.3

Zoom In Zoom Out

Sample Name: MP28760-MB1 Acquired: 4/6/2015 13:30:50 Type: QC
Method: 60102007_041712(v218) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000	-.0038	-.0018	-.0004	.0000	.0105	-.0002	-.0003	-.0002	-.0004
Stddev	.000	.0088	.0005	.0003	.000	.0015	.0001	.0000	.0001	.0002
%RSD	514.5	231.5	30.75	74.86	598.4	14.49	30.54	8.551	41.14	62.87
#1	.0001	-.0135	-.0012	-.0001	.0000	.0119	-.0002	-.0003	-.0003	-.0006
#2	-.0001	.0035	-.0022	-.0007	.0000	.0108	-.0001	-.0003	-.0001	-.0002
#3	-.0001	-.0013	-.0020	-.0005	.0000	.0089	-.0002	-.0003	-.0002	-.0003
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0004	-.0037	-.0096	-.0001	-.0023	-.0046	-.0003	.0000	-.0021	.0006
Stddev	.0072	.0151	.0120	.0000	.0001	.0063	.0001	.0004	.0003	.0006
%RSD	1825.	404.1	124.6	17.85	4.112	137.3	27.60	1342.	14.87	108.4
#1	.0076	.0014	.0039	-.0001	-.0022	-.0011	-.0003	-.0003	-.0021	.0008
#2	-.0023	.0082	-.0190	-.0001	-.0022	-.0008	-.0003	.0004	-.0024	.0011
#3	-.0065	-.0208	-.0137	-.0002	-.0024	-.0119	-.0002	.0000	-.0018	-.0001
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0252	-.0007	-.0001	-.0009	-.0015	.0000	-.0001
Stddev	.0007	.0001	.0000	.0001	.0005	.000	.0000
%RSD	2.656	7.758	13.26	9.173	32.82	2212.	28.55
#1	.0259	-.0008	-.0002	-.0009	-.0010	-.0001	-.0001
#2	.0246	-.0007	-.0001	-.0009	-.0020	.0003	-.0001
#3	.0250	-.0008	-.0001	-.0010	-.0016	-.0002	-.0002
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Zoom In Zoom Out

Sample Name: MP28760-MB1 Acquired: 4/6/2015 13:30:50 Type: QC
Method: 60102007_041712(v218) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3118.3	7519.8	47697.	4205.1
Stddev	4.0	6.8	117.	23.7
%RSD	.12743	.09051	.24611	.56433
#1	3114.7	7511.9	47612.	4191.1
#2	3117.6	7523.1	47831.	4191.7
#3	3122.6	7524.3	47649.	4232.5

Zoom In Zoom Out

Sample Name: MP28760-B1 Acquired: 4/6/2015 13:35:04 Type: QC
Method: 60102007_041712(v218) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0507	28.47	2.131	2.178	.0544	26.29	.0526	.5363	.2117	.2709
Stddev	.0003	.08	.003	.002	.0002	.09	.0001	.0005	.0004	.0007
%RSD	.5402	.2731	.1151	.0685	.4131	.3514	.1473	.0996	.2001	.2767
#1	.0509	28.41	2.133	2.179	.0541	26.23	.0527	.5366	.2121	.2714
#2	.0504	28.45	2.129	2.177	.0545	26.25	.0526	.5356	.2117	.2701
#3	.0509	28.56	2.133	2.180	.0545	26.40	.0527	.5365	.2112	.2713
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value										
Range										

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	27.30	26.59	25.63	.5225	.5214	26.64	.5431	.5026	.5397	2.124
Stddev	.05	.09	.07	.0012	.0003	.06	.0009	.0012	.0015	.005
%RSD	.1883	.3458	.2748	.2383	.0503	.2292	.1570	.2335	.2721	.2433
#1	27.27	26.52	25.63	.5239	.5215	26.59	.5441	.5012	.5410	2.127
#2	27.28	26.56	25.56	.5215	.5211	26.61	.5429	.5035	.5398	2.118
#3	27.36	26.70	25.70	.5221	.5216	26.71	.5424	.5031	.5381	2.127
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value										
Range										

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0314	.5401	.5266	.5127	2.064	.5066	.5213
Stddev	.0017	.0007	.0005	.0010	.003	.0016	.0005
%RSD	5.568	.1319	.1035	.1947	.1263	.3143	.0959
#1	.0334	.5409	.5264	.5136	2.062	.5085	.5215
#2	.0307	.5398	.5261	.5116	2.067	.5057	.5207
#3	.0301	.5396	.5272	.5127	2.063	.5057	.5217
Check ?	None	Chk Pass	None	None	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Zoom In Zoom Out

Sample Name: MP28760-B1 Acquired: 4/6/2015 13:35:04 Type: QC
Method: 60102007_041712(v218) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2731.6	7237.3	45119.	4164.4
Stddev	2.9	10.6	288.	26.8
%RSD	.10601	.14660	.63782	.64236
#1	2734.7	7225.1	44808.	4181.9
#2	2729.0	7244.3	45174.	4177.6
#3	2731.1	7242.6	45376.	4133.6

Zoom In Zoom Out

Sample Name: FA23132-1 Acquired: 4/6/2015 13:39:02 Type: Unk
Method: 60102007_041712(v218) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)
Avg	.0000	7.278	.1524	.2515	.0005	43.73	.0015	.0468	.0259
Stddev	.0001	.032	.0007	.0006	.0001	.15	.0001	.0001	.0004
%RSD	430.6	.4445	.4325	.2217	25.07	.3505	6.902	.3082	1.656
#1	-.0001	7.241	.1531	.2513	.0004	43.57	.0016	.0466	.0262
#2	.0001	7.291	.1518	.2511	.0006	43.75	.0014	.0469	.0254
#3	.0000	7.302	.1522	.2521	.0007	43.87	.0014	.0469	.0262

Elem	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
IS Ref	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)
Avg	.0418	63.62	2.480	17.38	F4.197	.0042	F91.48	.1131	.0195
Stddev	.0004	.18	.004	.07	.013	.0001	.23	.0002	.0002
%RSD	1.027	.2886	.1666	.3991	.3085	3.244	.2471	.1409	1.190
#1	.0416	63.46	2.477	17.31	4.205	.0043	91.22	.1132	.0196
#2	.0415	63.60	2.478	17.36	4.205	.0041	91.55	.1129	.0197
#3	.0423	63.82	2.485	17.45	4.182	.0041	91.66	.1132	.0193

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	-.0012	.0013	16.58	.0006	.6355	.2617	.0003	.0206	.1258
Stddev	.0005	.0009	.05	.0001	.0021	.0000	.0006	.0004	.0002
%RSD	40.69	67.69	.2920	18.54	.3344	.0140	208.0	2.181	.1426
#1	-.0006	.0009	16.63	.0006	.6330	.2618	.0003	.0203	.1256
#2	-.0014	.0023	16.57	.0005	.6365	.2617	.0009	.0211	.1258
#3	-.0015	.0007	16.53	.0007	.6369	.2618	-.0003	.0204	.1260

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	2684.0	7391.4	44841.	4250.5
Stddev	6.0	5.9	142.	10.3
%RSD	.22353	.08009	.31697	.24237
#1	2690.0	7385.2	44840.	4246.6
#2	2684.0	7397.0	44700.	4262.2
#3	2678.0	7392.0	44984.	4242.8

Zoom In Zoom Out

Sample Name: MP28760-D1 Acquired: 4/6/2015 13:43:16 Type: Unk
Method: 60102007_041712(v218) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)
Avg	.0002	7.724	.1520	.2572	.0004	45.44	.0013	.0475	.0276
Stddev	.0001	.029	.0011	.0012	.0001	.15	.0001	.0001	.0003
%RSD	49.13	.3710	.6958	.4859	25.73	.3298	6.083	.1931	.9917
#1	.0001	7.757	.1532	.2582	.0005	45.61	.0013	.0474	.0276
#2	.0001	7.707	.1518	.2577	.0005	45.37	.0012	.0475	.0278
#3	.0002	7.708	.1511	.2558	.0003	45.34	.0014	.0475	.0273

Elem	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
IS Ref	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)
Avg	.0431	65.50	2.601	17.69	F4.264	.0038	F94.18	.1136	.0205
Stddev	.0003	.21	.024	.06	.007	.0001	.38	.0000	.0001
%RSD	.7666	.3199	.9386	.3251	.1761	2.270	.4046	.0437	.5131
#1	.0432	65.72	2.588	17.75	4.258	.0038	94.60	.1137	.0205
#2	.0427	65.48	2.630	17.68	4.272	.0037	94.09	.1136	.0204
#3	.0434	65.30	2.586	17.64	4.261	.0039	93.86	.1136	.0206

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	-.0011	.0010	16.84	.0005	.6571	.2692	.0005	.0213	.1292
Stddev	.0006	.0003	.01	.0001	.0022	.0005	.0004	.0003	.0003
%RSD	53.54	32.34	.0696	31.06	.3314	.2035	81.27	1.304	.1959
#1	-.0013	.0008	16.83	.0003	.6585	.2690	.0002	.0216	.1289
#2	-.0016	.0008	16.83	.0005	.6583	.2688	.0003	.0210	.1294
#3	-.0005	.0013	16.85	.0006	.6546	.2699	.0009	.0215	.1293

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	2675.7	7420.7	44467.	4201.8
Stddev	5.1	11.3	196.	19.5
%RSD	.19179	.15244	.44071	.46347
#1	2673.6	7420.9	44469.	4193.0
#2	2671.9	7409.2	44270.	4224.2
#3	2681.5	7431.9	44662.	4188.4

Zoom In Zoom Out

Sample Name: CCV Acquired: 4/6/2015 13:47:28 Type: QC
Method: 60102007_041712(v218) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2603	43.61	2.033	2.106	2.154	43.06	2.089	2.098	2.143	2.145
Stddev	.0004	.19	.004	.010	.008	.16	.001	.002	.005	.004
%RSD	.1392	.4435	.2153	.4802	.3821	.3653	.0592	.0765	.2393	.1814
#1	.2607	43.43	2.028	2.097	2.147	42.89	2.089	2.098	2.137	2.143
#2	.2602	43.59	2.037	2.105	2.152	43.07	2.088	2.097	2.146	2.142
#3	.2600	43.82	2.034	2.117	2.163	43.21	2.090	2.100	2.146	2.149
Check ?	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass
Value										
Range										

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	42.73	42.64	40.97	2.053	2.085	43.24	2.040	2.046	2.076	2.055
Stddev	.24	.20	.13	.010	.006	.20	.001	.005	.001	.002
%RSD	.5502	.4620	.3243	.4671	.2792	.4518	.0279	.2350	.0590	.0884
#1	42.49	42.49	40.82	2.043	2.079	43.07	2.040	2.051	2.075	2.057
#2	42.73	42.57	41.06	2.054	2.087	43.21	2.040	2.048	2.075	2.054
#3	42.96	42.86	41.03	2.062	2.090	43.46	2.039	2.041	2.077	2.055
Check ?	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass
Value										
Range										

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.337	2.016	2.189	2.144	2.091	2.078	2.042
Stddev	.001	.001	.010	.003	.006	.001	.001
%RSD	.0515	.0670	.4540	.1452	.2759	.0544	.0522
#1	2.337	2.015	2.180	2.142	2.095	2.077	2.043
#2	2.336	2.016	2.188	2.142	2.095	2.078	2.041
#3	2.339	2.018	2.200	2.147	2.085	2.079	2.042
Check ?	None	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass
Value							
Range							

Zoom In Zoom Out

Sample Name: CCV Acquired: 4/6/2015 13:47:28 Type: QC
Method: 60102007_041712(v218) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2580.5	7188.7	43014.	4003.8
Stddev	5.4	6.6	181.	14.5
%RSD	.20771	.09195	.42009	.36337
#1	2576.9	7181.2	43219.	4019.5
#2	2578.1	7193.9	42944.	3990.7
#3	2586.7	7190.8	42878.	4001.3

Zoom In Zoom Out

Sample Name: CCB Acquired: 4/6/2015 13:51:32 Type: QC
Method: 60102007_041712(v218) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0002	-.0037	-.0003	-.0001	.0002	.0041	.0000	.0001	.0000
Stddev	.0001	.0071	.0002	.0002	.0000	.0048	.0000	.0000	.0001
%RSD	34.98	194.2	72.84	414.6	22.72	116.5	474.6	34.18	419.1
#1	-.0003	-.0080	-.0001	-.0001	.0002	.0024	.0000	.0001	.0001
#2	-.0002	.0046	-.0005	.0002	.0002	.0004	.0000	.0000	.0001
#3	-.0002	-.0076	-.0004	-.0003	.0001	.0095	.0001	.0001	-.0001
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0003	.0207	.0099	-.0165	.0002	F.0025	.0498	-.0003	.0001
Stddev	.0002	.0100	.0127	.0101	.0000	.0013	.0107	.0001	.0005
%RSD	58.75	48.41	128.6	60.84	9.054	53.24	21.53	38.26	335.2
#1	-.0001	.0318	-.0024	-.0092	.0002	.0040	.0615	-.0002	.0001
#2	-.0005	.0176	.0230	-.0280	.0002	.0023	.0473	-.0004	-.0003
#3	-.0003	.0125	.0091	-.0124	.0002	.0013	.0405	-.0002	.0007
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit						.0010			
Low Limit						-.0010			

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000	-.0010	.0051	.0000	.0002	.0005	-.0007	.0002	-.0003
Stddev	.001	.0009	.0003	.0002	.0001	.0001	.0003	.0002	.0000
%RSD	1625.	93.27	6.055	6018.	35.88	14.16	43.89	97.83	10.45
#1	.0008	-.0020	.0053	.0002	.0003	.0006	-.0008	.0003	-.0003
#2	-.0005	-.0004	.0051	-.0001	.0002	.0006	-.0010	.0000	-.0003
#3	-.0005	-.0005	.0047	-.0001	.0001	.0005	-.0004	.0002	-.0003
Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Zoom In Zoom Out

Sample Name: CCB Acquired: 4/6/2015 13:51:32 Type: QC
Method: 60102007_041712(v218) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3079.5	7559.4	45160.	4016.1
Stddev	11.5	18.6	45.	23.2
%RSD	.37285	.24655	.10032	.57824
#1	3092.7	7580.6	45174.	4001.1
#2	3072.0	7545.6	45109.	4004.3
#3	3073.7	7551.9	45196.	4042.8

Zoom In Zoom Out

Sample Name: CCV Acquired: 4/6/2015 14:25:10 Type: QC
Method: 60102007_041712(v218) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2500	39.66	1.981	1.999	1.993	39.94	1.999	1.994	2.000	1.986
Stddev	.0004	.13	.004	.002	.003	.12	.001	.001	.005	.005
%RSD	.1490	.3396	.2092	.1008	.1451	.2954	.0406	.0554	.2297	.2745
#1	.2504	39.67	1.980	1.999	1.994	39.95	2.000	1.995	2.002	1.989
#2	.2498	39.52	1.985	1.997	1.990	39.81	1.999	1.994	1.995	1.990
#3	.2498	39.79	1.977	2.000	1.996	40.05	1.999	1.993	2.003	1.980
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value										
Range										

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	40.61	39.45	39.88	2.018	1.997	39.87	2.002	1.966	1.981	1.991
Stddev	.12	.06	.04	.005	.003	.11	.001	.002	.002	.003
%RSD	.3058	.1631	.1103	.2420	.1601	.2732	.0479	.0897	.1069	.1240
#1	40.64	39.44	39.88	2.023	1.994	39.91	2.003	1.964	1.982	1.991
#2	40.47	39.39	39.83	2.014	1.997	39.75	2.002	1.968	1.978	1.994
#3	40.71	39.51	39.92	2.017	2.000	39.96	2.001	1.965	1.982	1.989
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value										
Range										

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.234	2.020	1.990	2.031	1.990	1.996	1.994
Stddev	.003	.001	.005	.001	.001	.002	.001
%RSD	.1194	.0411	.2622	.0536	.0687	.0825	.0246
#1	2.237	2.020	1.992	2.032	1.988	1.997	1.994
#2	2.233	2.019	1.985	2.031	1.991	1.994	1.994
#3	2.231	2.019	1.995	2.030	1.989	1.995	1.994
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Zoom In Zoom Out

Sample Name: CCV Acquired: 4/6/2015 14:25:10 Type: QC
Method: 60102007_041712(v218) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2578.5	7145.2	43013.	4019.5
Stddev	2.3	5.2	206.	13.2
%RSD	.08895	.07307	.47925	.32804
#1	2581.1	7143.9	42868.	4031.9
#2	2577.5	7151.0	43249.	4020.8
#3	2576.9	7140.8	42922.	4005.6

Zoom In Zoom Out

Sample Name: CCB Acquired: 4/6/2015 14:31:57 Type: QC
Method: 60102007_041712(v218) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0003	.0020	.0002	.0002	.0001	.0054	.0002	.0002	-.0001
Stddev	.0002	.0050	.0003	.0003	.0001	.0013	.0000	.0001	.0003
%RSD	78.74	246.3	183.3	150.7	84.19	24.68	10.67	40.04	339.9
#1	-.0003	-.0023	.0005	.0003	.0001	.0041	.0002	.0002	.0001
#2	-.0005	.0075	-.0002	-.0001	.0001	.0068	.0002	.0001	.0000
#3	-.0001	.0009	.0002	.0005	.0000	.0053	.0002	.0003	-.0004
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000	.0186	.0236	-.0084	.0001	F.0018	.0094	.0001	-.0002
Stddev	.0001	.0034	.0068	.0269	.0000	.0003	.0048	.0001	.0004
%RSD	967.7	18.16	28.62	318.2	21.98	16.49	51.24	74.64	195.4
#1	.0000	.0211	.0277	-.0349	.0001	.0022	.0098	.0000	-.0002
#2	.0001	.0200	.0158	.0188	.0001	.0017	.0044	.0001	-.0006
#3	-.0001	.0147	.0274	-.0092	.0001	.0016	.0141	.0001	.0002
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit						.0010			
Low Limit						-.0010			

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F.0022	-.0011	.0006	.0009	.0001	.0008	.0006	.0001	.0002
Stddev	.0000	.0007	.0006	.0001	.0001	.0001	.0006	.0001	.0000
%RSD	2.123	64.21	88.29	13.17	82.48	9.819	102.0	54.04	27.26
#1	.0023	-.0019	.0005	.0010	.0001	.0008	.0011	.0001	.0001
#2	.0022	-.0004	.0012	.0010	.0000	.0008	.0005	.0002	.0002
#3	.0022	-.0011	.0002	.0008	.0001	.0009	.0000	.0002	.0002
Check ?	Chk Fail	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	.0020								
Low Limit	-.0020								

Zoom In Zoom Out

Sample Name: CCB Acquired: 4/6/2015 14:31:57 Type: QC
Method: 60102007_041712(v218) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3069.6	7474.4	45339.	4063.3
Stddev	9.5	9.3	121.	39.7
%RSD	.31045	.12463	.26622	.97812
#1	3064.3	7464.2	45421.	4019.8
#2	3063.9	7476.6	45396.	4072.5
#3	3080.6	7482.4	45200.	4097.7

Zoom In Zoom Out

Sample Name: MP28760-SD1 Acquired: 4/6/2015 14:35:55 Type: Unk
Method: 60102007_041712(v218) Mode: CONC Corr. Factor: 5.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	.0008	7.405	.1572	.2604	.0007	46.70	.0018	.0500	.0278	.0457
Stddev	.0026	.045	.0024	.0020	.0001	.17	.0002	.0005	.0008	.0004
%RSD	318.6	.6023	1.538	.7716	16.39	.3593	9.618	.9871	2.719	.8800
#1	.0006	7.438	.1574	.2626	.0006	46.90	.0019	.0504	.0270	.0452
#2	-.0017	7.424	.1594	.2587	.0006	46.59	.0020	.0494	.0285	.0459
#3	.0035	7.355	.1546	.2599	.0008	46.63	.0016	.0501	.0279	.0459

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	66.90	2.823	18.50	4.613	.0086	95.15	.1227	.0198	.0045	.0018
Stddev	.14	.081	.03	.009	.0002	.21	.0001	.0016	.0062	.0011
%RSD	.2148	2.870	.1357	.2069	2.558	.2198	.0838	7.890	139.9	59.78
#1	66.83	2.861	18.47	4.624	.0088	95.28	.1228	.0194	-.0001	.0022
#2	66.81	2.879	18.51	4.605	.0085	94.91	.1227	.0185	.0019	.0006
#3	67.07	2.730	18.51	4.612	.0084	95.26	.1226	.0215	.0116	.0027

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	17.15	.0030	.6415	.2725	.0026	.0218	.1441
Stddev	.01	.0005	.0005	.0002	.0027	.0004	.0005
%RSD	.0859	17.48	.0772	.0838	105.8	1.623	.3601
#1	17.17	.0035	.6420	.2726	-.0005	.0220	.1437
#2	17.14	.0025	.6410	.2727	.0037	.0221	.1440
#3	17.14	.0032	.6415	.2723	.0045	.0214	.1447

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	2887.4	7462.1	45056.	4150.8
Stddev	.4	1.6	70.	31.7
%RSD	.01290	.02197	.15444	.76349
#1	2887.1	7460.4	44976.	4114.5
#2	2887.2	7462.2	45085.	4173.1
#3	2887.8	7463.6	45106.	4164.8

Zoom In Zoom Out

Sample Name: MP28760-PS1 Acquired: 4/6/2015 14:40:01 Type: Unk
Method: 60102007_041712(v218) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)
Avg	.0482	9.447	.2497	.4941	.0532	47.06	.0529	.0957	.0778
Stddev	.0005	.065	.0001	.0025	.0003	.29	.0001	.0003	.0005
%RSD	1.103	.6858	.0483	.4964	.6288	.6094	.1422	.3637	.6566
#1	.0477	9.516	.2496	.4969	.0536	47.39	.0528	.0953	.0778
#2	.0481	9.437	.2496	.4932	.0530	46.94	.0529	.0959	.0773
#3	.0487	9.387	.2498	.4922	.0530	46.85	.0530	.0959	.0784

Elem	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
IS Ref	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)
Avg	.1446	63.99	12.43	21.63	F4.113	.1079	F96.81	.2130	.0692
Stddev	.0002	.31	.05	.12	.017	.0001	.70	.0002	.0004
%RSD	.1148	.4901	.4298	.5482	.4119	.1211	.7227	.0937	.5098
#1	.1448	64.35	12.48	21.76	4.127	.1079	97.61	.2129	.0690
#2	.1445	63.83	12.42	21.53	4.094	.1077	96.53	.2128	.0696
#3	.1447	63.78	12.38	21.60	4.118	.1080	96.30	.2132	.0689

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	.1052	.1029	15.47	.0519	.6421	.3527	.1046	.0706	.3809
Stddev	.0005	.0011	.01	.0003	.0032	.0011	.0009	.0005	.0003
%RSD	.4372	1.114	.0967	.6572	.5058	.3180	.8971	.6499	.0812
#1	.1053	.1039	15.45	.0521	.6459	.3520	.1039	.0702	.3807
#2	.1047	.1017	15.47	.0515	.6405	.3521	.1057	.0706	.3807
#3	.1056	.1033	15.48	.0520	.6400	.3540	.1043	.0711	.3813

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	2630.9	7332.0	43845.	4141.6
Stddev	5.9	7.7	98.	37.5
%RSD	.22390	.10521	.22273	.90445
#1	2628.2	7323.8	43761.	4107.7
#2	2626.8	7333.3	43952.	4135.3
#3	2637.6	7339.0	43822.	4181.8

Zoom In
Zoom Out

Sample Name: MP28760-S1 Acquired: 4/6/2015 14:44:10 Type: Unk
Method: 60102007_041712(v218) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)
Avg	.0495	34.38	2.123	2.279	.0520	67.62	.0498	.5327	.2314
Stddev	.0001	.09	.005	.005	.0003	.15	.0001	.0003	.0004
%RSD	.1581	.2537	.2395	.2191	.6514	.2194	.1312	.0601	.1752
#1	.0495	34.47	2.129	2.284	.0523	67.80	.0498	.5327	.2314
#2	.0494	34.30	2.120	2.275	.0520	67.53	.0498	.5330	.2309
#3	.0495	34.36	2.120	2.276	.0517	67.55	.0499	.5323	.2317

Elem	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
IS Ref	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)
Avg	.2965	87.29	27.11	41.83	F4.618	.4794	F112.0	.6022	.5121
Stddev	.0005	.21	.03	.20	.013	.0004	.4	.0003	.0003
%RSD	.1660	.2418	.1039	.4680	.2730	.0739	.3189	.0464	.0489
#1	.2968	87.52	27.14	42.04	4.633	.4790	112.4	.6025	.5118
#2	.2968	87.23	27.09	41.79	4.614	.4797	111.8	.6023	.5120
#3	.2960	87.11	27.10	41.66	4.609	.4793	111.7	.6019	.5123

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	.4538	1.943	16.02	.4692	1.095	.7545	1.939	.5008	.6138
Stddev	.0011	.002	.02	.0016	.003	.0025	.004	.0003	.0006
%RSD	.2495	.0846	.1250	.3467	.2885	.3276	.2054	.0505	.0971
#1	.4548	1.944	16.04	.4691	1.099	.7556	1.938	.5005	.6131
#2	.4526	1.941	16.01	.4709	1.093	.7517	1.936	.5010	.6142
#3	.4541	1.943	16.02	.4677	1.095	.7562	1.943	.5010	.6140

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	2554.6	7300.0	43192.	4094.1
Stddev	2.7	9.0	37.	26.0
%RSD	.10504	.12287	.08518	.63547
#1	2557.2	7301.0	43155.	4065.9
#2	2554.8	7290.5	43229.	4099.2
#3	2551.8	7308.4	43193.	4117.2

Zoom In
Zoom Out

Sample Name: MP28760-S2 Acquired: 4/6/2015 14:48:17 Type: Unk
Method: 60102007_041712(v218) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)
Avg	.0492	34.41	2.145	2.290	.0520	67.38	.0503	.5359	.2303
Stddev	.0002	.17	.002	.009	.0002	.30	.0001	.0003	.0004
%RSD	.3850	.5061	.1071	.4060	.4532	.4424	.2254	.0470	.1634
#1	.0490	34.50	2.147	2.301	.0522	67.49	.0503	.5356	.2300
#2	.0493	34.53	2.146	2.284	.0521	67.61	.0502	.5360	.2304
#3	.0493	34.21	2.143	2.285	.0518	67.04	.0504	.5361	.2307

Elem	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
IS Ref	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)
Avg	.2961	87.04	27.13	41.85	F4.579	.4822	F110.7	.6084	.5155
Stddev	.0004	.32	.13	.18	.007	.0004	.7	.0009	.0013
%RSD	.1500	.3668	.4682	.4306	.1638	.0877	.6510	.1509	.2469
#1	.2964	87.29	27.19	41.95	4.588	.4818	111.3	.6078	.5153
#2	.2963	87.14	27.22	41.96	4.576	.4827	111.0	.6080	.5144
#3	.2956	86.68	26.99	41.64	4.574	.4823	109.9	.6095	.5169

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	.4586	1.964	16.10	.4742	1.091	.7462	1.953	.5016	.6174
Stddev	.0019	.003	.01	.0008	.004	.0004	.008	.0007	.0009
%RSD	.4110	.1449	.0503	.1658	.3987	.0535	.4067	.1399	.1490
#1	.4564	1.967	16.09	.4751	1.095	.7465	1.955	.5008	.6172
#2	.4595	1.963	16.10	.4736	1.092	.7464	1.944	.5021	.6166
#3	.4599	1.962	16.09	.4740	1.086	.7457	1.959	.5018	.6184

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	2561.4	7303.5	43676.	4107.7
Stddev	10.5	9.1	83.	21.2
%RSD	.40884	.12510	.18942	.51527
#1	2558.0	7300.8	43643.	4113.5
#2	2573.2	7313.6	43616.	4084.2
#3	2553.1	7296.0	43771.	4125.3

Zoom In
Zoom Out

Sample Name: FA23132-2 Acquired: 4/6/2015 14:52:24 Type: Unk
Method: 60102007_041712(v218) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	-.0003	.0529	.0001	.0402	.0001	41.36	.0013	.0052	.0071	.0019
Stddev	.0001	.0051	.0005	.0001	.0001	.26	.0000	.0000	.0001	.0001
%RSD	51.13	9.616	998.2	.1469	227.5	.6403	1.109	.8178	1.310	3.534
#1	-.0002	.0483	.0006	.0403	.0001	41.52	.0013	.0053	.0072	.0019
#2	-.0001	.0584	-.0005	.0402	.0002	41.05	.0013	.0052	.0070	.0018
#3	-.0004	.0520	.0001	.0402	-.0001	41.50	.0013	.0052	.0072	.0019

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	2.054	1.071	19.20	1.985	-.0001	67.96	.0180	.0016	.0012	.0012
Stddev	.023	.011	.12	.021	.0001	.41	.0002	.0005	.0003	.0003
%RSD	1.128	1.019	.6283	1.084	75.20	.5985	1.013	29.22	25.00	21.18
#1	2.080	1.059	19.21	2.010	.0000	68.15	.0180	.0013	.0014	.0011
#2	2.036	1.075	19.07	1.973	-.0002	67.49	.0178	.0015	.0009	.0011
#3	2.047	1.080	19.31	1.973	-.0002	68.23	.0181	.0022	.0011	.0015

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	12.67	.0001	.1958	.0022	.0011	.0010	.0215
Stddev	.01	.0001	.0013	.0002	.0004	.0000	.0001
%RSD	.0895	125.8	.6746	8.360	33.28	2.706	.2515
#1	12.68	.0000	.1968	.0023	.0013	.0010	.0215
#2	12.66	.0001	.1943	.0020	.0007	.0010	.0215
#3	12.67	.0001	.1963	.0021	.0014	.0010	.0216

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	2718.4	7209.9	43229.	4054.8
Stddev	7.3	5.8	133.	14.1
%RSD	.26689	.08103	.30815	.34711
#1	2726.2	7216.7	43151.	4049.2
#2	2711.8	7206.8	43383.	4070.8
#3	2717.0	7206.3	43153.	4044.3

Zoom In
Zoom Out

Sample Name: FA23132-3 Acquired: 4/6/2015 14:56:37 Type: Unk
Method: 60102007_041712(v218) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	-.0004	.1865	-.0002	.0462	.0003	12.48	.0000	.0000	.0004	.0006
Stddev	.0002	.0026	.0002	.0004	.0001	.02	.000	.000	.0003	.0001
%RSD	56.60	1.383	120.1	.7811	22.13	.1302	130.2	140.7	77.51	15.03
#1	-.0005	.1837	-.0001	.0466	.0003	12.49	.0000	-.0001	.0007	.0005
#2	-.0005	.1873	.0000	.0462	.0003	12.49	.0000	.0000	.0003	.0006
#3	-.0001	.1887	-.0004	.0458	.0004	12.46	.0000	-.0001	.0001	.0006

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	7.304	.8290	7.122	.1661	.0001	47.25	.0002	.0004	.0005	.0001
Stddev	.030	.0376	.025	.0005	.0001	.11	.0001	.0001	.0004	.0008
%RSD	.4120	4.532	.3458	.3254	143.1	.2259	39.48	14.47	72.48	817.9
#1	7.338	.8211	7.095	.1654	.0001	47.37	.0001	.0003	.0006	.0010
#2	7.282	.8698	7.126	.1664	.0001	47.20	.0003	.0004	.0009	-.0001
#3	7.292	.7960	7.144	.1664	.0000	47.17	.0003	.0004	.0001	-.0006

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	10.80	.0003	.0582	.0063	-.0007	.0007	.0107
Stddev	.01	.0001	.0001	.0017	.0004	.0003	.0000
%RSD	.0514	42.71	.2161	27.61	55.54	40.17	.3197
#1	10.80	.0004	.0583	.0050	-.0010	.0010	.0106
#2	10.79	.0003	.0580	.0082	-.0003	.0004	.0107
#3	10.80	.0001	.0583	.0056	-.0007	.0007	.0107

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	2810.7	7377.6	43497.	4006.9
Stddev	2.7	6.5	196.	16.4
%RSD	.09724	.08872	.45069	.41002
#1	2813.5	7379.5	43687.	4008.9
#2	2808.1	7383.0	43296.	3989.6
#3	2810.5	7370.4	43508.	4022.3

Zoom In Zoom Out

Sample Name: FA23132-8 Acquired: 4/6/2015 15:00:45 Type: Unk
Method: 60102007_041712(v218) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	-.0007	.0465	.0000	.0321	.0000	9.028	.0000	.0000	.0003	.0022
Stddev	.0003	.0103	.0004	.0003	.000	.026	.000	.0001	.0001	.0002
%RSD	46.54	22.07	1322.	.7954	112.4	.2933	68.83	199.5	22.03	10.24
#1	-.0003	.0583	-.0002	.0323	-.0001	9.032	.0000	.0001	.0003	.0024
#2	-.0009	.0395	.0005	.0322	.0000	9.000	.0000	.0000	.0002	.0020
#3	-.0008	.0417	-.0001	.0318	-.0001	9.053	.0000	.0000	.0004	.0022

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	4.674	.3526	4.240	.0458	.0000	35.77	-.0001	.0012	.0068	.0015
Stddev	.011	.0247	.029	.0001	.0001	.04	.0001	.0001	.0007	.0011
%RSD	.2444	6.991	.6957	.2868	788.6	.1171	88.66	8.865	10.26	71.21
#1	4.675	.3597	4.257	.0459	.0001	35.78	.0000	.0011	.0065	.0022
#2	4.663	.3729	4.206	.0456	-.0001	35.72	-.0001	.0014	.0077	.0020
#3	4.685	.3252	4.258	.0458	.0000	35.80	-.0003	.0012	.0064	.0003

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	8.960	.0005	.0337	.0026	-.0002	.0004	.0055
Stddev	.028	.0001	.0001	.0001	.0005	.0002	.0000
%RSD	.3119	26.43	.3507	4.239	193.6	44.81	.3602
#1	8.932	.0004	.0338	.0026	.0001	.0005	.0055
#2	8.960	.0007	.0336	.0025	-.0008	.0005	.0055
#3	8.988	.0005	.0336	.0027	-.0001	.0002	.0055

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	2860.8	7439.6	43325.	3970.8
Stddev	4.5	12.1	88.	3.1
%RSD	.15893	.16237	.20412	.07899
#1	2864.4	7447.6	43236.	3971.1
#2	2862.4	7445.6	43326.	3967.6
#3	2855.7	7425.7	43413.	3973.9

Zoom In Zoom Out

Sample Name: FA23132-9 Acquired: 4/6/2015 15:04:55 Type: Unk
Method: 60102007_041712(v218) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	-.0002	.0539	.0007	.0668	.0003	27.59	.0000	.0051	.0006	.0000
Stddev	.0002	.0116	.0004	.0003	.0000	.07	.000	.0001	.0001	.000
%RSD	63.73	21.49	50.07	.4601	7.602	.2608	199.7	1.318	11.91	803.8
#1	-.0004	.0614	.0005	.0665	.0003	27.54	.0000	.0051	.0005	.0000
#2	-.0002	.0598	.0005	.0668	.0003	27.56	.0000	.0050	.0007	-.0002
#3	-.0001	.0406	.0011	.0671	.0003	27.67	.0000	.0051	.0006	.0001

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	14.26	1.158	14.51	.5985	-.0001	44.45	.0121	.0000	.0006	.0002
Stddev	.06	.009	.03	.0028	.0000	.16	.0002	.0001	.0002	.0014
%RSD	.4325	.7520	.1899	.4734	27.83	.3495	1.748	299.5	33.56	885.4
#1	14.19	1.152	14.52	.6001	-.0001	44.31	.0119	.0000	.0007	.0009
#2	14.28	1.154	14.48	.5952	.0000	44.42	.0122	.0000	.0004	.0010
#3	14.31	1.168	14.53	.6002	-.0001	44.62	.0123	.0001	.0006	-.0014

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	10.05	.0002	.1276	.0016	-.0001	.0035	.0089
Stddev	.02	.0001	.0004	.0000	.0008	.0000	.0001
%RSD	.2347	83.14	.2752	.7335	665.9	1.244	.6620
#1	10.03	.0001	.1272	.0016	-.0010	.0035	.0090
#2	10.04	.0003	.1276	.0016	.0001	.0035	.0088
#3	10.08	.0000	.1280	.0016	.0005	.0036	.0089

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	2783.8	7341.8	43636.	4108.7
Stddev	5.4	7.1	108.	1.4
%RSD	.19523	.09627	.24640	.03423
#1	2778.7	7337.6	43620.	4110.4
#2	2789.5	7350.0	43751.	4107.9
#3	2783.2	7338.0	43537.	4107.9

Zoom In Zoom Out

Sample Name: FA23132-11 Acquired: 4/6/2015 15:09:02 Type: Unk
Method: 60102007_041712(v218) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	.0000	.0310	-.0006	.0286	.0000	16.65	.0000	.0003	.0003	.0147
Stddev	.000	.0071	.0005	.0002	.000	.02	.0000	.0001	.0002	.0001
%RSD	1494.	22.92	83.17	.7118	261.3	.1424	116.3	18.62	80.96	.6527
#1	-.0004	.0239	-.0009	.0286	.0000	16.63	.0000	.0003	.0000	.0147
#2	.0002	.0381	-.0008	.0288	-.0001	16.68	.0000	.0002	.0004	.0146
#3	.0001	.0310	.0000	.0285	.0000	16.65	.0000	.0003	.0004	.0148

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	.1074	.6751	7.698	.0621	-.0002	54.78	.0007	.0011	.0007	.0002
Stddev	.0057	.0214	.035	.0003	.0001	.06	.0001	.0004	.0004	.0022
%RSD	5.301	3.166	.4480	.4089	41.17	.1092	12.85	37.25	53.03	1269.
#1	.1137	.6673	7.732	.0622	-.0001	54.75	.0006	.0010	.0004	-.0004
#2	.1059	.6587	7.699	.0618	-.0002	54.85	.0007	.0016	.0005	-.0017
#3	.1026	.6993	7.663	.0622	-.0003	54.75	.0008	.0008	.0011	.0025

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	8.375	.0002	.0543	.0016	-.0005	.0005	.0308
Stddev	.005	.0001	.0001	.0001	.0006	.0002	.0001
%RSD	.0574	64.12	.1629	5.082	118.6	33.49	.4538
#1	8.377	.0003	.0543	.0016	-.0012	.0004	.0307
#2	8.369	.0002	.0544	.0016	.0001	.0004	.0309
#3	8.378	.0001	.0542	.0015	-.0005	.0007	.0309

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	2802.4	7325.2	44013.	4082.5
Stddev	.4	2.3	171.	18.4
%RSD	.01411	.03171	.38864	.45180
#1	2801.9	7327.9	43816.	4082.7
#2	2802.6	7323.8	44126.	4063.9
#3	2802.6	7323.9	44096.	4100.8

Zoom In Zoom Out

Sample Name: FA23132-12 Acquired: 4/6/2015 15:13:11 Type: Unk
Method: 60102007_041712(v218) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	-.0002	.1372	-.0006	.0225	.0000	10.96	.0000	.0000	.0010	.0006
Stddev	.0003	.0108	.0002	.0002	.0001	.04	.0000	.000	.0001	.0002
%RSD	155.0	7.852	26.35	1.062	230.9	.4033	597.4	471.6	8.245	32.91
#1	.0002	.1295	-.0008	.0224	.0000	10.95	.0000	-.0001	.0010	.0005
#2	-.0005	.1326	-.0005	.0224	.0000	10.91	.0000	.0000	.0010	.0009
#3	-.0003	.1495	-.0006	.0228	.0001	11.00	.0000	.0000	.0011	.0006

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	1.107	.5789	4.961	.1000	-.0002	45.10	.0007	.0017	.0012	.0010
Stddev	.005	.0037	.056	.0002	.0001	.12	.0000	.0004	.0006	.0003
%RSD	.4960	.6374	1.138	.1971	31.84	.2571	3.203	21.46	51.79	26.35
#1	1.111	.5789	4.964	.0998	-.0001	45.21	.0006	.0017	.0005	.0010
#2	1.100	.5751	4.903	.0999	-.0002	44.98	.0007	.0014	.0016	.0012
#3	1.109	.5825	5.015	.1002	-.0003	45.11	.0007	.0021	.0014	.0007

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	8.542	.0002	.0365	.0045	-.0004	.0005	.0117
Stddev	.008	.0003	.0002	.0003	.0009	.0001	.0001
%RSD	.0930	127.1	.4363	5.638	239.4	31.81	.6435
#1	8.533	.0004	.0367	.0043	-.0005	.0003	.0117
#2	8.542	-.0001	.0364	.0044	.0006	.0005	.0117
#3	8.549	.0003	.0366	.0048	-.0012	.0006	.0118

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	2829.1	7396.6	43648.	3998.3
Stddev	3.1	4.6	124.	31.1
%RSD	.11114	.06243	.28354	.77725
#1	2832.7	7400.4	43789.	4008.1
#2	2827.0	7397.9	43556.	4023.3
#3	2827.6	7391.5	43600.	3963.5

Zoom In Zoom Out

Sample Name: CCV Acquired: 4/6/2015 15:17:18 Type: QC
Method: 60102007_041712(v218) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2519	41.35	1.911	2.000	2.041	41.54	1.994	1.987	2.081	2.026
Stddev	.0011	.06	.001	.006	.003	.02	.005	.004	.006	.002
%RSD	.4211	.1559	.0756	.2929	.1417	.0539	.2489	.1820	.2908	.0886
#1	.2509	41.33	1.910	2.006	2.042	41.57	1.988	1.983	2.076	2.025
#2	.2530	41.42	1.910	1.994	2.043	41.54	1.996	1.988	2.088	2.028
#3	.2518	41.30	1.913	2.000	2.037	41.52	1.997	1.990	2.078	2.026
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value										
Range										

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	41.42	40.06	40.13	2.050	1.967	41.24	1.947	1.978	1.934	1.927
Stddev	.06	.14	.05	.003	.008	.13	.002	.002	.001	.003
%RSD	.1545	.3560	.1134	.1335	.4243	.3153	.0769	.1071	.0349	.1513
#1	41.48	40.03	40.08	2.047	1.959	41.25	1.946	1.978	1.934	1.928
#2	41.35	40.21	40.16	2.052	1.968	41.37	1.946	1.980	1.934	1.930
#3	41.43	39.93	40.16	2.052	1.975	41.11	1.948	1.976	1.933	1.924
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value										
Range										

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.180	1.922	2.046	2.079	2.004	1.995	1.977
Stddev	.003	.002	.005	.008	.003	.007	.005
%RSD	.1235	.0793	.2459	.3959	.1317	.3583	.2415
#1	2.178	1.920	2.047	2.072	2.006	1.989	1.972
#2	2.183	1.923	2.051	2.088	2.004	2.002	1.978
#3	2.180	1.923	2.041	2.077	2.001	1.992	1.981
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Pass
Value							
Range							

Zoom In Zoom Out

Sample Name: CCV Acquired: 4/6/2015 15:17:18 Type: QC
Method: 60102007_041712(v218) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2570.3	7218.6	41875.	3890.3
Stddev	3.7	23.9	202.	10.4
%RSD	.14387	.33094	.48226	.26822
#1	2572.8	7241.5	42028.	3901.2
#2	2572.0	7220.6	41646.	3889.4
#3	2566.1	7193.8	41951.	3880.4

Zoom In Zoom Out

Sample Name: CCB Acquired: 4/6/2015 15:21:22 Type: QC
Method: 60102007_041712(v218) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0005	.0041	.0001	.0003	.0003	.0081	.0004	.0006	.0003
Stddev	.0003	.0066	.0005	.0004	.0001	.0045	.0002	.0001	.0002
%RSD	58.23	160.9	503.0	120.4	29.86	55.47	36.58	16.73	79.49
#1	-.0004	.0107	.0004	.0002	.0003	.0030	.0002	.0005	.0002
#2	-.0009	-.0024	.0004	.0007	.0002	.0116	.0005	.0007	.0005
#3	-.0003	.0039	-.0005	.0000	.0003	.0096	.0005	.0005	.0001
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0002	.0434	.0652	-.0029	.0003	F.0045	.0483	.0003	.0010
Stddev	.0002	.0123	.0122	.0417	.0000	.0012	.0061	.0001	.0005
%RSD	97.46	28.36	18.72	1453.	8.140	26.62	12.62	24.13	48.52
#1	.0000	.0561	.0780	-.0019	.0003	.0056	.0502	.0003	.0013
#2	.0001	.0425	.0537	.0384	.0002	.0045	.0414	.0004	.0012
#3	.0003	.0316	.0638	-.0451	.0003	.0033	.0531	.0003	.0004
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit						.0010			
Low Limit						-.0010			

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0017	-.0011	.0006	F.0011	.0003	.0019	.0007	.0002	.0004
Stddev	.0009	.0016	.0005	.0001	.0001	.0001	.0004	.0001	.0001
%RSD	56.55	145.0	81.30	11.21	27.23	5.808	51.04	64.06	27.67
#1	.0026	-.0029	.0003	.0012	.0002	.0020	.0003	.0002	.0003
#2	.0016	.0001	.0004	.0011	.0003	.0018	.0010	.0003	.0005
#3	.0007	-.0005	.0012	.0010	.0002	.0019	.0009	.0001	.0004
Check ?	Chk Pass	Chk Pass	None	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				.0010					
Low Limit				-.0010					

Zoom In Zoom Out

Sample Name: CCB Acquired: 4/6/2015 15:21:22 Type: QC
Method: 60102007_041712(v218) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3076.7	7614.3	44559.	3970.3
Stddev	2.7	5.1	109.	24.7
%RSD	.08619	.06700	.24430	.62127
#1	3077.1	7608.6	44433.	3946.6
#2	3079.1	7615.7	44621.	3968.6
#3	3073.9	7618.5	44623.	3995.8

Zoom In Zoom Out

Sample Name: FA23132-13 Acquired: 4/6/2015 15:25:35 Type: Unk
Method: 60102007_041712(v218) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)
Avg	-.0002	.2562	.1314	.1316	.0001	66.84	-.0001	.0168	.0017
Stddev	.0001	.0198	.0002	.0001	.0000	.08	.0000	.0001	.0003
%RSD	37.39	7.719	.1244	.1043	35.81	.1126	19.25	.5678	16.40
#1	-.0003	.2341	.1316	.1316	.0001	66.77	-.0001	.0169	.0016
#2	-.0002	.2625	.1313	.1318	.0001	66.82	-.0001	.0167	.0014
#3	-.0001	.2721	.1313	.1315	.0000	66.92	-.0001	.0167	.0020

Elem	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
IS Ref	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)
Avg	.0023	32.33	1.439	32.01	F4.442	.0080	F137.0	.0440	.0003
Stddev	.0003	.01	.001	.09	.038	.0002	1.1	.0002	.0006
%RSD	14.72	.0254	.0946	.2721	.8610	2.353	.7814	.4638	192.0
#1	.0025	32.33	1.437	32.09	4.474	.0082	138.0	.0438	.0010
#2	.0025	32.34	1.440	31.92	4.451	.0080	135.9	.0442	-.0001
#3	.0019	32.33	1.439	32.03	4.400	.0078	137.2	.0439	.0000

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	-.0003	.0007	8.579	.0004	.2539	.0120	.0012	.0024	.0201
Stddev	.0008	.0016	.010	.0001	.0005	.0014	.0005	.0002	.0000
%RSD	292.4	239.3	.1210	37.30	.2061	11.93	43.69	7.547	.1044
#1	.0004	.0006	8.588	.0005	.2533	.0108	.0007	.0024	.0201
#2	-.0012	-.0009	8.568	.0003	.2542	.0116	.0011	.0022	.0202
#3	.0000	.0023	8.581	.0003	.2541	.0136	.0018	.0026	.0201

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	2597.1	7127.0	41341.	3966.8
Stddev	3.4	10.3	287.	25.8
%RSD	.12990	.14388	.69457	.65065
#1	2599.5	7129.9	41184.	3938.3
#2	2598.6	7135.5	41166.	3988.7
#3	2593.2	7115.6	41672.	3973.3

Zoom In Zoom Out

Sample Name: FA23132-14 Acquired: 4/6/2015 15:30:00 Type: Unk
Method: 60102007_041712(v218) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	-.0007	.3911	-.0004	.0499	.0005	45.64	.0016	.0111	.0459	.0040
Stddev	.0001	.0075	.0008	.0002	.0001	.08	.0000	.0001	.0004	.0002
%RSD	17.42	1.908	169.8	.4971	9.313	.1748	2.039	.5539	.8459	4.856
#1	-.0007	.3850	.0003	.0501	.0006	45.73	.0016	.0110	.0463	.0041
#2	-.0005	.3994	-.0004	.0498	.0005	45.61	.0016	.0111	.0459	.0041
#3	-.0007	.3887	-.0012	.0496	.0006	45.57	.0017	.0111	.0455	.0037

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	.1542	1.728	33.29	.1904	-.0003	31.57	.0531	.0015	.0005	.0028
Stddev	.0096	.017	.13	.0005	.0001	.07	.0002	.0002	.0008	.0010
%RSD	6.239	.9860	.3967	.2526	22.79	.2274	.3125	15.52	157.7	37.47
#1	.1650	1.746	33.31	.1906	-.0002	31.64	.0529	.0015	-.0002	.0018
#2	.1513	1.712	33.40	.1898	-.0004	31.57	.0532	.0012	.0013	.0026
#3	.1464	1.727	33.14	.1908	-.0003	31.50	.0533	.0016	.0004	.0039

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	9.786	.0003	.2769	.0043	-.0002	.0005	.1550
Stddev	.020	.0004	.0004	.0001	.0010	.0001	.0003
%RSD	.1992	121.2	.1583	2.234	455.5	26.40	.2005
#1	9.771	.0001	.2774	.0042	-.0002	.0004	.1546
#2	9.779	.0001	.2769	.0044	.0007	.0006	.1553
#3	9.808	.0007	.2765	.0044	-.0012	.0004	.1550

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	2745.4	7364.1	42802.	3997.5
Stddev	2.4	7.4	100.	18.2
%RSD	.08598	.10021	.23264	.45405
#1	2748.1	7371.2	42726.	3980.0
#2	2744.5	7364.7	42765.	3996.1
#3	2743.7	7356.4	42915.	4016.3

Zoom In Zoom Out

Sample Name: FA23271-3F Acquired: 4/6/2015 15:34:06 Type: Unk
Method: 60102007_041712(v218) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	-.0005	.0228	-.0006	.0023	.0000	43.95	.0000	-.0001	.0004	-.0004
Stddev	.0006	.0114	.0004	.0003	.000	.23	.000	.0001	.0000	.0001
%RSD	114.2	50.05	70.64	11.92	358.7	.5151	57.45	91.38	6.200	24.95
#1	-.0002	.0126	-.0006	.0024	.0000	44.08	.0000	.0000	.0005	-.0005
#2	-.0011	.0207	-.0002	.0026	.0000	43.69	.0000	-.0001	.0004	-.0005
#3	-.0001	.0351	-.0011	.0020	.0000	44.08	-.0001	-.0001	.0004	-.0003

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	.0222	1.041	7.043	.0049	.0062	7.399	-.0001	.0005	.0013	-.0003
Stddev	.0007	.018	.036	.0001	.0000	.037	.0000	.0005	.0006	.0004
%RSD	2.932	1.778	.5170	1.049	.5592	.4953	32.25	101.8	47.69	143.0
#1	.0219	1.058	7.084	.0050	.0062	7.425	-.0002	.0005	.0020	-.0002
#2	.0230	1.021	7.013	.0049	.0061	7.357	-.0001	.0000	.0009	-.0007
#3	.0219	1.043	7.034	.0049	.0062	7.415	-.0001	.0010	.0009	.0001

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	.6406	.0001	.4282	.0010	.0005	.0002	.0082
Stddev	.0009	.0001	.0020	.0001	.0011	.0001	.0000
%RSD	.1350	69.61	.4764	9.596	222.2	70.18	.3777
#1	.6402	.0002	.4299	.0010	-.0005	.0003	.0083
#2	.6416	.0000	.4259	.0010	.0018	.0001	.0083
#3	.6401	.0001	.4288	.0011	.0002	.0001	.0082

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	2843.7	7372.4	43114.	3987.3
Stddev	4.2	4.1	140.	42.7
%RSD	.14929	.05627	.32508	1.0717
#1	2848.5	7370.0	43019.	3958.4
#2	2842.2	7370.0	43049.	4036.4
#3	2840.5	7377.2	43275.	3967.2

Zoom In Zoom Out

Sample Name: FA23271-4F Acquired: 4/6/2015 15:38:17 Type: Unk
Method: 60102007_041712(v218) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	-.0007	.0746	-.0005	.0040	.0000	36.96	.0000	.0000	.0003	-.0003
Stddev	.0007	.0029	.0002	.0000	.000	.10	.000	.000	.0001	.0002
%RSD	93.27	3.855	35.75	.9551	640.7	.2744	126.6	153.6	29.80	75.09
#1	-.0012	.0779	-.0003	.0040	.0000	37.03	.0000	-.0001	.0002	-.0002
#2	-.0010	.0729	-.0006	.0040	.0000	36.84	.0000	.0000	.0004	-.0002
#3	.0000	.0729	-.0007	.0040	-.0001	37.00	.0000	.0000	.0004	-.0005

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	.0133	.6454	8.640	.0075	.0061	4.869	-.0003	.0012	.0002	.0006
Stddev	.0018	.0258	.033	.0001	.0000	.013	.0001	.0003	.0002	.0004
%RSD	13.20	3.997	.3835	.7416	.7558	.2742	41.99	24.30	74.25	79.56
#1	.0120	.6694	8.672	.0075	.0061	4.880	-.0003	.0012	.0003	.0010
#2	.0153	.6486	8.606	.0074	.0061	4.874	-.0004	.0015	.0000	.0001
#3	.0126	.6181	8.642	.0074	.0062	4.854	-.0001	.0009	.0003	.0007

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	1.965	.0004	.4425	.0015	-.0004	.0017	.0028
Stddev	.006	.0003	.0005	.0000	.0001	.0001	.0000
%RSD	.2865	63.16	.1224	2.813	30.14	5.228	1.456
#1	1.960	.0002	.4429	.0015	-.0003	.0016	.0028
#2	1.966	.0007	.4419	.0015	-.0005	.0018	.0028
#3	1.971	.0004	.4426	.0015	-.0003	.0017	.0028

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	2872.1	7415.0	43394.	3988.8
Stddev	2.5	5.3	229.	24.3
%RSD	.08757	.07149	.52838	.61024
#1	2869.2	7411.1	43229.	3978.6
#2	2873.9	7421.0	43298.	4016.6
#3	2873.1	7412.8	43656.	3971.3

Zoom In
Zoom Out

Sample Name: FA23271-7F Acquired: 4/6/2015 15:42:27 Type: Unk
Method: 60102007_041712(v218) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	-.0004	.1208	.0004	.0021	.0000	20.74	.0000	.0000	.0007	-.0003
Stddev	.0002	.0060	.0002	.0001	.000	.04	.0000	.000	.0002	.0002
%RSD	40.78	4.963	53.45	3.441	341.2	.2021	368.8	60.59	22.64	57.22
#1	-.0004	.1269	.0004	.0021	.0001	20.79	.0000	-.0001	.0008	-.0002
#2	-.0003	.1208	.0006	.0020	-.0001	20.71	.0000	.0000	.0008	-.0002
#3	-.0007	.1149	.0002	.0020	-.0001	20.74	.0000	.0000	.0005	-.0005

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	.1652	.8200	5.181	.0143	.0034	4.863	.0000	.0007	.0011	-.0012
Stddev	.0015	.0349	.053	.0000	.0002	.016	.000	.0004	.0014	.0012
%RSD	.9338	4.255	1.015	.0680	4.466	.3297	1636.	66.57	118.5	97.48
#1	.1670	.8170	5.241	.0144	.0035	4.881	-.0001	.0002	.0026	-.0004
#2	.1645	.8563	5.150	.0143	.0034	4.852	.0002	.0010	.0010	-.0026
#3	.1642	.7867	5.150	.0143	.0032	4.854	-.0001	.0008	-.0001	-.0006

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	.3317	.0001	.2737	.0053	-.0005	.0002	.0053
Stddev	.0009	.0001	.0009	.0003	.0001	.0002	.0001
%RSD	.2603	84.01	.3170	6.208	22.63	125.3	.9591
#1	.3320	.0002	.2747	.0051	-.0006	-.0001	.0054
#2	.3323	.0000	.2731	.0051	-.0005	.0003	.0053
#3	.3307	.0001	.2732	.0057	-.0004	.0003	.0053

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	2911.4	7477.1	44047.	3993.1
Stddev	2.7	11.4	47.	9.4
%RSD	.09153	.15202	.10765	.23425
#1	2914.5	7487.3	44021.	3986.2
#2	2910.3	7464.9	44019.	3989.4
#3	2909.5	7479.2	44102.	4003.8

Zoom In
Zoom Out

Sample Name: FA23271-8F Acquired: 4/6/2015 15:46:38 Type: Unk
Method: 60102007_041712(v218) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	-.0007	.0534	-.0008	.0032	.0000	52.15	.0000	.0000	.0004	-.0002
Stddev	.0003	.0089	.0006	.0001	.0000	.16	.000	.0001	.0001	.0001
%RSD	35.60	16.72	82.90	3.312	211.4	.3036	131.4	498.4	23.74	72.65
#1	-.0006	.0580	-.0009	.0031	.0000	52.08	-.0001	-.0001	.0003	-.0001
#2	-.0005	.0592	-.0013	.0033	.0000	52.33	.0000	.0001	.0005	-.0001
#3	-.0010	.0432	-.0001	.0032	.0001	52.03	.0000	.0000	.0003	-.0004

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	.0438	1.528	12.16	.0032	.0026	10.71	.0000	.0007	.0008	.0006
Stddev	.0020	.028	.07	.0000	.0001	.02	.000	.0002	.0006	.0008
%RSD	4.610	1.835	.6024	1.219	2.715	.1586	316.8	36.48	74.63	136.9
#1	.0458	1.548	12.17	.0032	.0027	10.71	.0000	.0009	.0008	.0013
#2	.0437	1.541	12.23	.0032	.0026	10.73	.0000	.0007	.0015	.0008
#3	.0418	1.496	12.08	.0031	.0025	10.70	.0000	.0004	.0002	-.0003

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	.7379	.0002	.8213	.0017	.0000	.0008	.0047
Stddev	.0002	.0002	.0015	.0001	.0007	.0002	.0000
%RSD	.0297	114.7	.1777	3.026	9657.	24.44	1.039
#1	.7379	.0000	.8206	.0016	.0007	.0010	.0047
#2	.7377	.0001	.8230	.0017	.0001	.0006	.0046
#3	.7381	.0004	.8203	.0016	-.0007	.0009	.0047

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	2809.9	7310.7	42733.	3944.9
Stddev	2.9	11.8	131.	30.9
%RSD	.10237	.16132	.30748	.78260
#1	2812.5	7314.0	42879.	3940.9
#2	2810.3	7320.6	42625.	3916.2
#3	2806.8	7297.7	42695.	3977.5

Zoom In
Zoom Out

Sample Name: FA23271-13F Acquired: 4/6/2015 15:50:49 Type: Unk
Method: 60102007_041712(v218) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	-.0006	.0403	.0002	.0034	.0000	27.49	.0000	.0001	.0005	-.0002
Stddev	.0003	.0073	.0003	.0002	.000	.05	.000	.0001	.0001	.0001
%RSD	48.94	18.22	117.5	4.935	597.7	.1938	102.4	188.1	13.89	64.91
#1	-.0008	.0332	.0001	.0036	.0000	27.52	.0000	-.0001	.0006	-.0003
#2	-.0005	.0479	.0005	.0034	-.0001	27.52	.0000	.0001	.0005	-.0001
#3	-.0003	.0398	.0001	.0033	.0001	27.42	.0000	.0001	.0004	-.0001

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	.1500	.6111	5.327	.0280	.0040	4.946	.0000	.0004	.0005	-.0006
Stddev	.0024	.0393	.025	.0001	.0001	.007	.0000	.0004	.0001	.0015
%RSD	1.619	6.432	.4763	.4897	2.148	.1522	112.0	97.68	25.06	261.2
#1	.1480	.6559	5.313	.0281	.0039	4.951	.0001	.0000	.0004	.0011
#2	.1493	.5824	5.356	.0279	.0041	4.937	.0000	.0004	.0005	-.0009
#3	.1528	.5950	5.311	.0279	.0040	4.950	.0000	.0007	.0007	-.0019

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	.7116	.0157	.4583	.0011	-.0004	.0001	.0057
Stddev	.0009	.0003	.0003	.0001	.0001	.0001	.0000
%RSD	.1266	1.942	.0760	6.829	23.22	106.9	.4756
#1	.7125	.0155	.4580	.0010	-.0003	.0002	.0056
#2	.7107	.0155	.4587	.0011	-.0005	.0000	.0057
#3	.7116	.0160	.4582	.0012	-.0004	.0000	.0057

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	2887.4	7437.9	43472.	3954.5
Stddev	4.7	8.2	90.	32.1
%RSD	.16195	.11020	.20700	.81187
#1	2890.5	7445.8	43386.	3930.3
#2	2882.0	7429.4	43466.	3942.2
#3	2889.6	7438.5	43565.	3990.9

Zoom In
Zoom Out

Sample Name: FA23298-1 Acquired: 4/6/2015 15:55:01 Type: Unk
Method: 60102007_041712(v218) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	-.0005	17.53	.0076	.0263	.0004	44.39	.0000	.0007	.0140	.0018
Stddev	.0003	.11	.0006	.0004	.0000	.27	.0000	.0001	.0001	.0001
%RSD	51.96	.6052	7.269	1.560	11.00	.6001	709.7	7.715	.7664	7.359
#1	-.0005	17.59	.0073	.0267	.0004	44.63	.0000	.0007	.0141	.0019
#2	-.0008	17.41	.0082	.0262	.0004	44.10	.0000	.0006	.0141	.0017
#3	-.0002	17.59	.0072	.0259	.0004	44.45	.0000	.0007	.0139	.0019

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	12.04	2.082	2.516	.1029	.0008	4.657	.0072	.0099	.0002	.0015
Stddev	.08	.030	.029	.0008	.0001	.027	.0002	.0008	.0004	.0014
%RSD	.6426	1.458	1.147	.7902	8.735	.5742	2.109	7.550	230.5	95.67
#1	12.13	2.117	2.532	.1038	.0008	4.687	.0074	.0091	-.0002	.0006
#2	11.98	2.067	2.534	.1025	.0009	4.638	.0072	.0104	.0007	.0007
#3	12.03	2.063	2.483	.1023	.0009	4.645	.0071	.0104	.0001	.0031

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	17.73	.0003	.1789	.0225	-.0003	.0114	.0153
Stddev	.02	.0001	.0012	.0001	.0001	.0001	.0000
%RSD	.0943	29.77	.6576	.6159	32.08	1.051	.0445
#1	17.72	.0004	.1801	.0226	-.0003	.0115	.0153
#2	17.73	.0003	.1778	.0224	-.0004	.0112	.0154
#3	17.75	.0002	.1788	.0224	-.0002	.0114	.0153

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	2833.7	7583.9	43949.	4076.3
Stddev	1.5	3.8	244.	24.8
%RSD	.05280	.05069	.55460	.60919
#1	2832.0	7580.5	43695.	4048.6
#2	2834.2	7583.0	44182.	4096.5
#3	2834.8	7588.1	43969.	4083.8

Zoom In
Zoom Out

Sample Name: FA23298-2 Acquired: 4/6/2015 15:59:08 Type: Unk
Method: 60102007_041712(v218) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	-.0006	1.209	.0010	.0139	.0000	62.34	-.0001	-.0001	.0038	-.0002
Stddev	.0005	.001	.0001	.0001	.000	.22	.0000	.0000	.0001	.0002
%RSD	92.42	.1187	13.12	1.005	411.5	.3464	41.35	48.47	3.477	111.3
#1	-.0007	1.209	.0009	.0140	-.0001	62.59	-.0001	-.0001	.0040	-.0003
#2	.0000	1.208	.0011	.0138	-.0001	62.21	.0000	.0000	.0038	.0001
#3	-.0010	1.211	.0009	.0140	.0001	62.22	.0000	.0000	.0038	-.0004

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	9.172	2.533	5.053	.1709	.0002	3.071	.0015	.0010	.0009	.0003
Stddev	.031	.021	.011	.0001	.0000	.010	.0001	.0003	.0004	.0011
%RSD	.3361	.8144	.2191	.0816	18.32	.3325	8.249	28.43	50.16	353.0
#1	9.208	2.554	5.041	.1710	.0002	3.083	.0016	.0007	.0008	-.0010
#2	9.150	2.513	5.063	.1708	.0002	3.065	.0014	.0011	.0013	.0011
#3	9.160	2.531	5.055	.1710	.0001	3.065	.0016	.0012	.0004	.0008

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	4.571	.0002	.2809	.0874	-.0001	.0022	.0082
Stddev	.014	.0002	.0006	.0062	.0004	.0000	.0001
%RSD	.3117	109.1	.2054	7.100	240.0	1.585	.9519
#1	4.555	.0000	.2815	.0900	-.0002	.0023	.0082
#2	4.583	.0004	.2804	.0803	.0002	.0023	.0081
#3	4.575	.0001	.2809	.0919	-.0005	.0022	.0082

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	2840.6	7382.6	43164.	3989.4
Stddev	4.8	12.0	77.	30.8
%RSD	.17040	.16283	.17950	.77327
#1	2845.5	7392.0	43156.	3954.7
#2	2840.6	7386.8	43090.	4000.0
#3	2835.8	7369.1	43245.	4013.7

Zoom In
Zoom Out

Sample Name: FA23147-2 Acquired: 4/6/2015 16:03:16 Type: Unk
Method: 60102007_041712(v218) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	-.0006	3.534	.0059	.1439	.0001	65.24	.0011	.0044	.0041	.0050
Stddev	.0003	.017	.0004	.0006	.0000	.50	.0000	.0001	.0004	.0003
%RSD	55.56	.4661	6.614	.4038	29.17	.7739	1.704	2.349	9.024	5.957
#1	-.0004	3.550	.0061	.1443	.0001	65.78	.0010	.0045	.0043	.0054
#2	-.0010	3.534	.0061	.1441	.0001	65.18	.0011	.0043	.0043	.0049
#3	-.0005	3.517	.0054	.1432	.0001	64.77	.0011	.0043	.0036	.0048

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	22.83	3.391	25.10	3.838	.0016	29.28	.0013	.1411	.0008	.0004
Stddev	.16	.022	.17	.011	.0002	.21	.0001	.0003	.0005	.0012
%RSD	.6872	.6530	.6577	.2948	10.65	.7005	4.033	.2421	68.62	324.2
#1	22.98	3.411	25.27	3.830	.0018	29.50	.0013	.1407	.0011	.0015
#2	22.84	3.396	25.08	3.851	.0014	29.25	.0013	.1414	.0002	-.0009
#3	22.67	3.367	24.94	3.834	.0015	29.10	.0012	.1411	.0011	.0005

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	10.80	.0004	.2839	.1871	.0007	.0103	.0360
Stddev	.02	.0002	.0022	.0061	.0005	.0002	.0001
%RSD	.1801	47.66	.7894	3.245	81.49	1.867	.1862
#1	10.78	.0007	.2863	.1812	.0007	.0102	.0360
#2	10.79	.0003	.2837	.1869	.0012	.0105	.0361
#3	10.82	.0004	.2818	.1933	.0001	.0102	.0360

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	2705.3	7352.5	42486.	3933.8
Stddev	4.5	9.0	117.	46.3
%RSD	.16665	.12193	.27603	1.1768
#1	2700.2	7342.2	42621.	3881.2
#2	2706.8	7357.1	42411.	3952.0
#3	2708.8	7358.3	42427.	3968.3

Zoom In
Zoom Out

Sample Name: CCV Acquired: 4/6/2015 16:07:31 Type: QC
Method: 60102007_041712(v218) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2517	41.94	1.925	2.022	2.067	42.04	2.013	2.007	2.106	2.039
Stddev	.0007	.23	.002	.006	.008	.23	.001	.000	.003	.006
%RSD	.2738	.5572	.0900	.3173	.3854	.5376	.0517	.0203	.1300	.2864
#1	.2514	41.67	1.925	2.017	2.058	41.80	2.015	2.006	2.108	2.036
#2	.2525	42.11	1.924	2.029	2.072	42.24	2.013	2.007	2.107	2.046
#3	.2512	42.04	1.927	2.021	2.071	42.09	2.013	2.007	2.103	2.036
Check ?	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass
Value																				
Range																				

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	41.88	40.68	40.50	2.060	1.987	42.16	1.963	1.991	1.951	1.938
Stddev	.20	.17	.14	.016	.006	.21	.001	.002	.001	.002
%RSD	.4839	.4171	.3486	.7958	.3264	.5091	.0557	.0954	.0654	.0839
#1	41.67	40.48	40.36	2.078	1.980	41.92	1.962	1.993	1.952	1.936
#2	42.08	40.77	40.52	2.047	1.987	42.33	1.963	1.989	1.951	1.938
#3	41.87	40.77	40.64	2.054	1.993	42.24	1.964	1.991	1.950	1.939
Check ?	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass
Value																				
Range																				

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.194	1.934	2.074	2.088	2.019	2.010	1.995
Stddev	.001	.000	.008	.005	.002	.003	.002
%RSD	.0280	.0127	.3883	.2397	.0877	.1620	.0811
#1	2.193	1.933	2.065	2.090	2.017	2.009	1.997
#2	2.194	1.933	2.079	2.091	2.021	2.007	1.994
#3	2.194	1.934	2.079	2.082	2.019	2.013	1.994
Check ?	None	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass
Value													
Range													

Zoom In
Zoom Out

Sample Name: CCV Acquired: 4/6/2015 16:07:31 Type: QC
Method: 60102007_041712(v218) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2555.1	7161.8	41626.	3871.5
Stddev	3.2	8.0	112.	26.9
%RSD	.12579	.11108	.26824	.69579
#1	2552.8	7153.8	41504.	3901.9
#2	2558.8	7169.7	41724.	3850.8
#3	2553.8	7161.7	41648.	3861.6

Zoom In
Zoom Out

Sample Name: CCB Acquired: 4/6/2015 16:11:36 Type: QC
Method: 60102007_041712(v218) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0002	.0025	.0008	.0002	.0002	.0086	.0003	.0004	.0003
Stddev	.0001	.0060	.0001	.0002	.0001	.0038	.0001	.0001	.0001
%RSD	43.07	238.6	12.80	137.2	39.80	44.41	28.13	12.47	28.50
#1	-.0003	-.0040	.0008	.0004	.0002	.0129	.0002	.0004	.0004
#2	-.0003	.0038	.0008	-.0001	.0001	.0076	.0004	.0005	.0003
#3	-.0001	.0077	.0007	.0002	.0003	.0054	.0004	.0004	.0003
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000	.0441	.0508	-.0176	.0002	F.0043	.0245	.0005	.0008
Stddev	.000	.0104	.0088	.0085	.0000	.0012	.0070	.0001	.0008
%RSD	1132.	23.57	17.41	48.21	6.064	28.11	28.65	28.43	103.7
#1	.0002	.0560	.0610	-.0104	.0002	.0055	.0294	.0003	.0000
#2	-.0002	.0393	.0458	-.0155	.0002	.0042	.0164	.0005	.0017
#3	.0000	.0370	.0456	-.0270	.0002	.0031	.0275	.0006	.0007
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit						.0010			
Low Limit						-.0010			

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F.0024	-.0008	.0022	F.0011	.0003	.0019	.0009	.0001	.0004
Stddev	.0001	.0010	.0010	.0002	.0001	.0001	.0008	.0003	.0001
%RSD	4.152	122.2	45.10	15.85	32.85	7.892	93.05	228.8	17.17
#1	.0024	.0003	.0032	.0011	.0002	.0019	.0000	.0004	.0003
#2	.0023	-.0010	.0021	.0013	.0003	.0020	.0015	.0001	.0004
#3	.0025	-.0017	.0013	.0009	.0003	.0017	.0012	-.0001	.0005
Check ?	Chk Fail	Chk Pass	None	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	.0020			.0010					
Low Limit	-.0020			-.0010					

Zoom In
Zoom Out

Sample Name: CCB Acquired: 4/6/2015 16:11:36 Type: QC
Method: 60102007_041712(v218) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3041.1	7527.5	43959.	3951.0
Stddev	2.4	7.3	360.	11.6
%RSD	.07785	.09652	.81951	.29335
#1	3038.4	7528.2	43584.	3940.3
#2	3042.8	7534.4	43992.	3949.2
#3	3041.9	7519.9	44302.	3963.3

Zoom In
Zoom Out

Sample Name: FA23147-6 Acquired: 4/6/2015 16:15:49 Type: Unk
Method: 60102007_041712(v218) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	-.0004	1.615	.0069	.2072	.0001	39.79	.0002	.0301	.0024	.0020
Stddev	.0002	.017	.0008	.0007	.0000	.19	.0000	.0000	.0003	.0001
%RSD	53.59	1.069	12.24	.3176	50.59	.4875	20.61	.1636	12.83	4.811
#1	-.0003	1.635	.0073	.2080	.0001	40.00	.0002	.0301	.0026	.0019
#2	-.0003	1.608	.0075	.2069	.0001	39.62	.0002	.0301	.0026	.0020
#3	-.0007	1.602	.0060	.2068	.0000	39.74	.0002	.0300	.0020	.0021

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	22.51	6.365	13.01	2.791	.0024	33.52	.0039	.0060	.0002	-.0001
Stddev	.09	.030	.07	.014	.0002	.16	.0001	.0003	.0012	.0013
%RSD	.3946	.4778	.5007	.4933	6.238	.4693	1.746	5.360	615.3	1142.
#1	22.62	6.400	13.08	2.776	.0026	33.70	.0039	.0061	-.0006	-.0015
#2	22.45	6.354	12.95	2.795	.0023	33.41	.0040	.0063	.0016	.0000
#3	22.48	6.342	13.01	2.803	.0023	33.46	.0039	.0057	-.0004	.0011

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	9.169	.0003	.2256	.1002	.0011	.0072	.0141
Stddev	.010	.0002	.0015	.0015	.0004	.0001	.0000
%RSD	.1114	64.17	.6471	1.480	38.06	1.799	.2596
#1	9.173	.0001	.2273	.1019	.0008	.0071	.0141
#2	9.158	.0005	.2245	.0991	.0016	.0071	.0141
#3	9.177	.0003	.2251	.0996	.0010	.0073	.0140

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	2743.8	7351.7	42858.	3998.4
Stddev	1.1	2.2	50.	6.0
%RSD	.04075	.02956	.11623	.14922
#1	2743.0	7349.3	42815.	3993.0
#2	2743.4	7352.2	42913.	3997.5
#3	2745.1	7353.6	42848.	4004.8

Zoom In
Zoom Out

Sample Name: FA23147-7 Acquired: 4/6/2015 16:20:04 Type: Unk
Method: 60102007_041712(v218) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)
Avg	-.0006	12.44	.0051	.2336	.0007	46.76	-.0001	.0049	.0064
Stddev	.0002	.05	.0004	.0014	.0001	.16	.0001	.0001	.0002
%RSD	24.82	.4187	7.913	.5938	15.62	.3416	73.33	1.743	3.531
#1	-.0005	12.44	.0047	.2322	.0006	46.67	-.0001	.0048	.0067
#2	-.0007	12.38	.0055	.2335	.0008	46.66	.0000	.0049	.0063
#3	-.0008	12.49	.0052	.2350	.0006	46.94	-.0002	.0050	.0063

Elem	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
IS Ref	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)
Avg	.0368	48.78	6.107	24.45	F4.426	.0022	26.19	.0031	.0076
Stddev	.0004	.26	.017	.02	.009	.0000	.12	.0001	.0008
%RSD	.9582	.5317	.2813	.0638	.2141	1.435	.4528	2.989	11.18
#1	.0364	48.62	6.103	24.44	4.432	.0022	26.14	.0032	.0068
#2	.0371	48.63	6.093	24.47	4.431	.0021	26.11	.0030	.0075
#3	.0369	49.08	6.126	24.44	4.415	.0022	26.33	.0032	.0085

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	-.0010	.0000	21.11	.0009	.2567	.8517	.0007	.0400	.0691
Stddev	.0004	.0011	.02	.0002	.0016	.0006	.0003	.0002	.0000
%RSD	37.37	150400.	.0726	24.72	.6095	.0717	42.14	.5003	.0049
#1	-.0006	.0012	21.09	.0009	.2559	.8524	.0009	.0402	.0691
#2	-.0014	-.0010	21.12	.0006	.2558	.8516	.0009	.0398	.0691
#3	-.0009	-.0002	21.11	.0011	.2585	.8512	.0004	.0399	.0691

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	2701.4	7629.5	43894.	4095.4
Stddev	7.6	12.9	133.	10.5
%RSD	.28023	.16877	.30236	.25564
#1	2693.0	7616.4	43747.	4107.4
#2	2707.7	7629.9	44006.	4087.9
#3	2703.5	7642.2	43929.	4091.0

Zoom In Zoom Out

Sample Name: FA23147-9 Acquired: 4/6/2015 16:24:17 Type: Unk
Method: 60102007_041712(v218) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)
Avg	.0002	6.992	.0117	.3256	.0003	40.29	.0024	.0160	.0189
Stddev	.0003	.031	.0002	.0016	.0000	.15	.0000	.0001	.0002
%RSD	115.6	.4463	1.851	.5004	7.838	.3769	.9561	.5981	1.065
#1	-.0001	7.006	.0120	.3269	.0003	40.44	.0024	.0160	.0187
#2	.0004	6.956	.0117	.3238	.0003	40.14	.0024	.0159	.0189
#3	.0004	7.014	.0116	.3260	.0003	40.30	.0024	.0160	.0191

Elem	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
IS Ref	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)
Avg	.0257	46.13	9.126	15.47	F4.417	.0013	47.75	.0092	.0558
Stddev	.0003	.12	.032	.02	.009	.0001	.15	.0002	.0008
%RSD	1.207	.2538	.3448	.1593	.2051	9.239	.3233	1.967	1.521
#1	.0259	46.23	9.126	15.50	4.415	.0014	47.90	.0093	.0548
#2	.0253	46.00	9.157	15.46	4.427	.0012	47.59	.0092	.0561
#3	.0257	46.15	9.094	15.46	4.409	.0014	47.74	.0090	.0564

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	.0003	.0016	13.24	.0018	.3559	.4367	.0013	.0338	.0788
Stddev	.0005	.0006	.01	.0003	.0011	.0005	.0002	.0002	.0001
%RSD	159.2	38.70	.1113	16.76	.3106	.1212	13.30	.5874	.1738
#1	.0001	.0010	13.24	.0016	.3570	.4373	.0011	.0340	.0789
#2	.0000	.0022	13.24	.0016	.3548	.4364	.0014	.0338	.0787
#3	.0010	.0015	13.26	.0021	.3560	.4365	.0013	.0336	.0790

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	2706.4	7470.1	43284.	4009.8
Stddev	3.1	9.0	109.	32.7
%RSD	.11294	.12090	.25077	.81673
#1	2707.3	7470.9	43399.	3983.8
#2	2708.9	7478.6	43183.	4046.6
#3	2703.0	7460.6	43271.	3999.0

Zoom In Zoom Out

Sample Name: MP28760-MB2A Acquired: 4/6/2015 16:28:31 Type: QC
Method: 60102007_041712(v218) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0007	-.0058	-.0004	.0002	-.0001	.0487	.0000	-.0001	.0002	-.0001
Stddev	.0002	.0067	.0002	.0001	.0001	.0022	.000	.0000	.0002	.0002
%RSD	26.71	116.2	40.96	70.01	73.48	4.544	150.2	56.04	138.0	161.2
#1	-.0007	-.0052	-.0002	.0002	.0000	.0492	.0000	-.0001	-.0001	-.0003
#2	-.0009	.0006	-.0004	.0004	-.0001	.0506	-.0001	-.0001	.0002	-.0001
#3	-.0005	-.0127	-.0005	.0001	-.0001	.0463	.0000	.0000	.0004	.0001
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0331	.0365	-.0058	.0002	.0000	.0360	-.0002	.0004	.0007	.0000
Stddev	.0114	.0057	.0170	.0001	.0001	.0106	.0001	.0002	.0007	.0006
%RSD	34.58	15.51	293.5	23.76	748.9	29.34	76.77	59.86	101.0	1348.
#1	.0456	.0431	-.0255	.0003	.0001	.0446	-.0001	.0006	.0002	.0001
#2	.0305	.0330	.0030	.0003	.0000	.0242	-.0001	.0002	.0014	-.0006
#3	.0231	.0335	.0050	.0002	-.0001	.0391	-.0003	.0003	.0004	.0006
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0234	.0003	.0001	.0003	-.0009	.0000	.0080
Stddev	.0003	.0002	.0001	.0001	.0001	.0002	.0000
%RSD	1.278	58.20	71.04	15.94	6.697	701.0	.3332
#1	.0233	.0001	.0001	.0004	-.0009	-.0002	.0080
#2	.0237	.0005	.0000	.0003	-.0010	.0001	.0080
#3	.0232	.0003	.0001	.0004	-.0010	.0002	.0080
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Zoom In Zoom Out

Sample Name: MP28760-MB2A Acquired: 4/6/2015 16:28:31 Type: QC
Method: 60102007_041712(v218) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3054.6	7586.9	44268.	3934.0
Stddev	1.1	6.0	193.	15.5
%RSD	.03759	.07958	.43691	.39415
#1	3055.3	7583.1	44178.	3924.6
#2	3053.2	7583.8	44135.	3925.5
#3	3055.2	7593.9	44489.	3951.9

Zoom In Zoom Out

Sample Name: MP28761-MB1 Acquired: 4/6/2015 16:32:45 Type: QC
Method: 60102007_041712(v218) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0007	.0093	-.0009	.0001	-.0001	.0600	.0000	-.0001	.0008	.0001
Stddev	.0004	.0073	.0004	.0001	.0000	.0045	.000	.0001	.0001	.0001
%RSD	59.24	78.25	46.07	145.3	24.99	7.557	543.2	74.38	11.60	107.9
#1	-.0004	.0144	-.0007	.0002	-.0001	.0638	.0000	-.0002	.0007	.0000
#2	-.0012	.0125	-.0013	.0000	-.0001	.0612	.0000	.0000	.0008	.0001
#3	-.0005	.0010	-.0006	.0000	-.0001	.0550	.0000	-.0001	.0008	.0000
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0385	.0303	.0227	.0003	.0000	.0194	.0002	.0007	.0009	-.0001
Stddev	.0021	.0133	.0216	.0000	.000	.0067	.0001	.0006	.0001	.0007
%RSD	5.507	43.70	95.20	10.99	1548.	34.55	34.82	90.46	12.69	1129.
#1	.0369	.0222	.0388	.0003	.0001	.0117	.0001	.0010	.0011	.0007
#2	.0376	.0456	-.0019	.0003	.0000	.0235	.0003	.0011	.0009	-.0004
#3	.0409	.0232	.0311	.0004	-.0001	.0232	.0002	.0000	.0008	-.0005
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0145	.0220	.0003	.0005	-.0010	-.0001	.0029
Stddev	.0007	.0002	.0001	.0000	.0002	.0001	.0000
%RSD	4.920	1.000	24.84	3.878	18.61	84.20	1.065
#1	.0145	.0219	.0003	.0005	-.0008	-.0001	.0029
#2	.0152	.0220	.0002	.0005	-.0012	-.0001	.0029
#3	.0138	.0223	.0003	.0005	-.0010	-.0003	.0029
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Zoom In
Zoom Out

Sample Name: MP28761-MB1 Acquired: 4/6/2015 16:32:45 Type: QC
Method: 60102007_041712(v218) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3080.9	7630.7	44914.	3953.5
Stddev	2.7	4.6	83.	34.4
%RSD	.08762	.05994	.18568	.87018
#1	3080.0	7625.4	44825.	3920.0
#2	3078.7	7632.7	44991.	3951.8
#3	3083.9	7633.9	44927.	3988.8

Zoom In
Zoom Out

Sample Name: MP28761-B1 Acquired: 4/6/2015 16:36:58 Type: QC
Method: 60102007_041712(v218) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0481	28.64	1.906	2.074	.0539	26.84	.0499	.5073	.2211	.2647
Stddev	.0004	.07	.001	.010	.0003	.04	.0001	.0003	.0010	.0020
%RSD	.7782	.2271	.0686	.4961	.4667	.1387	.1870	.0597	.4575	.7708
#1	.0484	28.71	1.908	2.083	.0540	26.88	.0498	.5073	.2219	.2670
#2	.0482	28.58	1.905	2.063	.0536	26.82	.0498	.5071	.2200	.2633
#3	.0477	28.62	1.906	2.078	.0540	26.82	.0500	.5077	.2215	.2637
Check ?	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass
Value										
Range										

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	27.25	25.62	25.26	.5298	.4875	26.78	.4999	.4885	.4795	1.898
Stddev	.13	.02	.08	.0011	.0003	.07	.0006	.0008	.0013	.004
%RSD	.4849	.0947	.3198	.2077	.0639	.2644	.1187	.1649	.2724	.1900
#1	27.38	25.65	25.34	.5310	.4874	26.85	.5004	.4877	.4781	1.902
#2	27.12	25.61	25.18	.5289	.4873	26.71	.4993	.4884	.4805	1.895
#3	27.24	25.61	25.27	.5294	.4879	26.77	.5000	.4893	.4800	1.896
Check ?	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass
Value										
Range										

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0164	.5004	.5152	.5169	1.971	.4906	.5021
Stddev	.0003	.0009	.0014	.0015	.002	.0012	.0010
%RSD	1.886	.1851	.2645	.2986	.0911	.2382	.1908
#1	.0164	.5014	.5168	.5187	1.970	.4920	.5020
#2	.0168	.4999	.5142	.5160	1.971	.4900	.5012
#3	.0161	.4997	.5147	.5161	1.973	.4899	.5031
Check ?	None	Chk	Pass	None	None	Chk	Pass
Value							
Range							

Zoom In
Zoom Out

Sample Name: MP28761-B1 Acquired: 4/6/2015 16:36:58 Type: QC
Method: 60102007_041712(v218) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2703.6	7370.6	42240.	3903.3
Stddev	2.9	11.6	115.	22.2
%RSD	.10822	.15762	.27307	.56845
#1	2700.5	7357.2	42222.	3886.4
#2	2706.3	7377.8	42363.	3895.0
#3	2703.9	7376.8	42135.	3928.4

Zoom In
Zoom Out

Sample Name: FA23271-1 Acquired: 4/6/2015 16:40:55 Type: Unk
Method: 60102007_041712(v218) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	-.0010	38.76	.0098	.0846	.0007	4.491	-.0001	.0018	.0594	.0077
Stddev	.0002	.16	.0007	.0005	.0001	.021	.0001	.0001	.0004	.0002
%RSD	17.59	.4208	6.670	.5581	13.23	.4619	56.47	3.044	.6946	2.392
#1	-.0009	38.95	.0094	.0850	.0007	4.514	-.0001	.0018	.0593	.0079
#2	-.0013	38.69	.0105	.0846	.0006	4.485	.0000	.0018	.0590	.0077
#3	-.0010	38.64	.0094	.0841	.0007	4.474	-.0001	.0017	.0598	.0075

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	14.73	.5615	1.659	.1898	.0014	.1394	.0120	.0606	.0010	-.0003
Stddev	.06	.0048	.026	.0009	.0001	.0074	.0002	.0003	.0007	.0001
%RSD	.4367	.8632	1.591	.4674	6.347	5.332	1.816	.4176	71.97	54.63
#1	14.81	.5634	1.685	.1893	.0015	.1312	.0119	.0608	.0018	-.0001
#2	14.70	.5560	1.632	.1892	.0013	.1413	.0118	.0603	.0006	-.0003
#3	14.69	.5652	1.658	.1908	.0013	.1457	.0122	.0607	.0005	-.0004

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	1.079	.0189	.1302	1.080	-.0018	.0278	.0210
Stddev	.001	.0002	.0005	.003	.0006	.0004	.0001
%RSD	.0658	1.034	.4199	.2708	31.16	1.484	.3646
#1	1.079	.0190	.1309	1.078	-.0016	.0273	.0210
#2	1.080	.0186	.1300	1.078	-.0014	.0280	.0209
#3	1.079	.0190	.1299	1.083	-.0025	.0281	.0210

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	2911.0	8322.9	47587.	4308.4
Stddev	6.4	15.6	223.	40.5
%RSD	.21925	.18768	.46917	.93910
#1	2905.9	8307.8	47506.	4261.9
#2	2918.2	8339.0	47839.	4328.0
#3	2908.9	8321.8	47416.	4335.3

Zoom In Zoom Out

Sample Name: MP28761-D1 Acquired: 4/6/2015 16:45:00 Type: Unk
Method: 60102007_041712(v218) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	-.0013	33.68	.0082	.0732	.0006	3.859	-.0001	.0016	.0514	.0076
Stddev	.0002	.03	.0008	.0003	.0001	.003	.0000	.0000	.0002	.0001
%RSD	12.48	.0799	10.17	.4527	20.71	.0731	11.65	1.806	.4137	1.599
#1	-.0014	33.65	.0090	.0736	.0007	3.862	-.0001	.0016	.0515	.0077
#2	-.0011	33.70	.0074	.0731	.0005	3.857	-.0001	.0016	.0511	.0077
#3	-.0013	33.68	.0081	.0730	.0005	3.857	-.0001	.0017	.0515	.0075

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	12.82	.4957	1.444	.1604	.0011	.1125	.0104	.0506	-.0006	.0004
Stddev	.02	.0172	.022	.0008	.0001	.0054	.0000	.0001	.0003	.0004
%RSD	.1657	3.460	1.499	.4737	12.00	4.758	.4148	.1597	62.38	105.5
#1	12.83	.4853	1.421	.1609	.0011	.1173	.0104	.0507	-.0006	.0002
#2	12.80	.4863	1.445	.1596	.0010	.1135	.0104	.0506	-.0002	.0001
#3	12.84	.5155	1.465	.1608	.0012	.1067	.0103	.0505	-.0009	.0009

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	.9695	.0191	.1128	.8592	-.0018	.0244	.0182
Stddev	.0016	.0001	.0003	.0029	.0005	.0003	.0001
%RSD	.1678	.6486	.2337	.3349	31.03	1.299	.5129
#1	.9714	.0190	.1131	.8617	-.0012	.0247	.0182
#2	.9690	.0192	.1127	.8561	-.0022	.0241	.0182
#3	.9682	.0193	.1126	.8599	-.0019	.0243	.0183

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	2936.6	8239.9	47468.	4275.6
Stddev	3.4	3.5	198.	13.1
%RSD	.11439	.04206	.41658	.30678
#1	2933.4	8237.8	47269.	4276.1
#2	2940.1	8237.9	47665.	4288.4
#3	2936.2	8243.9	47470.	4262.2

Zoom In Zoom Out

Sample Name: MP28761-SD1 Acquired: 4/6/2015 16:49:05 Type: Unk
Method: 60102007_041712(v218) Mode: CONC Corr. Factor: 5.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	-.0036	42.63	.0107	.0945	.0006	5.723	-.0002	.0022	.0647	.0082
Stddev	.0009	.15	.0034	.0014	.0002	.026	.0002	.0002	.0017	.0012
%RSD	26.63	.3600	31.57	1.470	35.52	.4521	150.9	7.223	2.648	14.91
#1	-.0044	42.73	.0077	.0956	.0005	5.746	.0000	.0020	.0654	.0095
#2	-.0025	42.70	.0143	.0950	.0004	5.728	-.0004	.0021	.0660	.0071
#3	-.0037	42.45	.0099	.0930	.0008	5.695	.0000	.0023	.0628	.0080

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	16.06	.8839	1.747	.2091	.0008	.5085	.0130	.0606	-.0025	-.0019
Stddev	.09	.0524	.113	.0014	.0005	.0348	.0005	.0024	.0018	.0058
%RSD	.5800	5.925	6.445	.6789	60.94	6.850	4.079	3.982	70.00	303.9
#1	16.04	.9350	1.834	.2091	.0008	.5344	.0126	.0634	-.0045	.0033
#2	16.17	.8303	1.787	.2106	.0003	.5222	.0136	.0593	-.0014	-.0009
#3	15.98	.8865	1.620	.2077	.0012	.4689	.0127	.0591	-.0015	-.0081

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	1.161	.0209	.1434	1.147	.0000	.0287	.0280
Stddev	.002	.0003	.0002	.008	.0020	.0010	.0003
%RSD	.1887	1.560	.1595	.6702	6264.	3.473	1.032
#1	1.162	.0206	.1433	1.152	.0023	.0297	.0281
#2	1.158	.0207	.1437	1.151	-.0014	.0277	.0283
#3	1.162	.0212	.1433	1.138	-.0008	.0285	.0277

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	3012.7	7795.1	44899.	4031.7
Stddev	3.2	4.3	319.	22.2
%RSD	.10691	.05544	.71054	.55143
#1	3016.4	7791.3	45053.	4013.0
#2	3010.7	7794.2	44532.	4056.3
#3	3010.9	7799.8	45112.	4025.8

Zoom In Zoom Out

Sample Name: MP28761-PS1 Acquired: 4/6/2015 16:53:14 Type: Unk
Method: 60102007_041712(v218) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	.0431	40.56	.0995	.3232	.0511	9.596	.0475	.0498	.1104	.1076
Stddev	.0004	.10	.0002	.0002	.0001	.049	.0001	.0002	.0005	.0004
%RSD	1.039	.2380	.1641	.0542	.2137	.5117	.1325	.3635	.4634	.3900
#1	.0436	40.60	.0995	.3234	.0511	9.599	.0475	.0499	.1106	.1074
#2	.0427	40.63	.0997	.3233	.0512	9.644	.0474	.0496	.1108	.1081
#3	.0430	40.45	.0994	.3231	.0510	9.546	.0475	.0500	.1099	.1074

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	17.34	9.969	6.146	.2349	.0933	10.58	.1061	.1098	.0900	.0865
Stddev	.04	.044	.039	.0005	.0002	.03	.0001	.0003	.0005	.0006
%RSD	.2372	.4387	.6357	.2329	.2509	.2485	.0581	.2359	.5295	.7169
#1	17.36	10.01	6.103	.2355	.0931	10.57	.1061	.1096	.0904	.0867
#2	17.38	9.967	6.180	.2346	.0934	10.61	.1060	.1101	.0894	.0870
#3	17.30	9.926	6.154	.2345	.0935	10.56	.1061	.1099	.0901	.0858

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	1.019	.0624	.1766	1.152	.1015	.0735	.2563
Stddev	.003	.0005	.0009	.003	.0006	.0003	.0003
%RSD	.2575	.8634	.5372	.2347	.6299	.4077	.1053
#1	1.021	.0630	.1771	1.155	.1022	.0738	.2566
#2	1.016	.0621	.1771	1.153	.1012	.0732	.2562
#3	1.021	.0621	.1755	1.149	.1011	.0735	.2561

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	2798.5	8241.5	46925.	4241.5
Stddev	3.0	11.6	94.	31.7
%RSD	.10772	.14098	.20006	.74809
#1	2795.2	8228.7	46817.	4265.4
#2	2799.5	8251.5	46987.	4205.5
#3	2800.9	8244.3	46972.	4253.6

Zoom In Zoom Out

Sample Name: CCV Acquired: 4/6/2015 16:57:15 Type: QC
Method: 60102007_041712(v218) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2542	42.71	1.907	2.026	2.095	42.82	2.010	2.004	2.141	2.063
Stddev	.0007	.08	.002	.005	.005	.09	.002	.003	.007	.005
%RSD	.2775	.1897	.1267	.2478	.2456	.2060	.1172	.1591	.3232	.2588
#1	.2540	42.73	1.907	2.030	2.096	42.82	2.008	2.001	2.135	2.061
#2	.2537	42.62	1.905	2.020	2.089	42.72	2.012	2.007	2.139	2.059
#3	.2550	42.78	1.910	2.028	2.099	42.90	2.011	2.006	2.148	2.069
Check ?	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass
Value										
Range										

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	42.24	41.14	40.77	2.074	1.978	43.04	1.946	1.992	1.930	1.922
Stddev	.06	.03	.03	.010	.008	.09	.001	.005	.006	.005
%RSD	.1514	.0839	.0759	.4876	.3896	.2073	.0573	.2455	.3294	.2810
#1	42.24	41.12	40.80	2.085	1.969	43.14	1.945	1.988	1.923	1.916
#2	42.17	41.11	40.73	2.068	1.980	42.97	1.948	1.998	1.932	1.925
#3	42.30	41.18	40.77	2.067	1.984	43.01	1.946	1.991	1.935	1.926
Check ?	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass
Value										
Range										

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.174	1.905	2.104	2.118	2.021	2.014	1.989
Stddev	.003	.001	.006	.000	.004	.003	.002
%RSD	.1535	.0402	.2737	.0093	.2130	.1683	.0919
#1	2.171	1.906	2.109	2.118	2.016	2.011	1.989
#2	2.174	1.905	2.097	2.118	2.025	2.014	1.991
#3	2.178	1.904	2.105	2.117	2.021	2.018	1.987
Check ?	None	Chk	Pass	Chk	Pass	Chk	Pass
Value							
Range							

Zoom In
Zoom Out

Sample Name: CCV Acquired: 4/6/2015 16:57:15 Type: QC
Method: 60102007_041712(v218) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2556.3	7192.5	41223.	3796.9
Stddev	8.1	12.4	71.	33.1
%RSD	.31867	.17174	.17189	.87052
#1	2563.1	7201.2	41283.	3835.0
#2	2547.3	7178.4	41241.	3778.9
#3	2558.4	7197.9	41145.	3776.7

Zoom In
Zoom Out

Sample Name: CCB Acquired: 4/6/2015 17:01:22 Type: QC
Method: 60102007_041712(v218) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0007	.0040	.0009	.0004	.0002	.0090	.0002	.0004	.0002
Stddev	.0003	.0139	.0003	.0002	.0000	.0018	.0001	.0001	.0001
%RSD	40.52	345.7	37.71	43.25	18.38	19.59	20.64	14.00	43.61
#1	-.0009	.0084	.0012	.0005	.0002	.0072	.0002	.0003	.0003
#2	-.0006	.0151	.0008	.0004	.0001	.0107	.0002	.0004	.0003
#3	-.0004	-.0115	.0006	.0002	.0002	.0090	.0003	.0005	.0001
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0002	.0403	.0604	-.0160	.0002	F.0044	.0116	.0002	.0004
Stddev	.0002	.0130	.0274	.0045	.0000	.0011	.0007	.0001	.0003
%RSD	72.34	32.33	45.27	28.09	24.52	25.84	6.449	65.51	72.62
#1	.0000	.0544	.0325	-.0181	.0002	.0056	.0112	.0001	.0001
#2	-.0003	.0376	.0871	-.0192	.0002	.0042	.0124	.0003	.0007
#3	-.0004	.0288	.0617	-.0109	.0001	.0033	.0111	.0002	.0005
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit						.0010			
Low Limit						-.0010			

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0019	-.0010	.0011	.0009	.0002	.0018	.0002	-.0001	.0003
Stddev	.0004	.0013	.0003	.0003	.0001	.0002	.0002	.0003	.0001
%RSD	21.57	138.5	26.85	30.96	34.99	12.09	102.2	356.9	31.18
#1	.0023	.0006	.0010	.0012	.0001	.0021	.0000	-.0004	.0002
#2	.0018	-.0018	.0015	.0008	.0002	.0017	.0003	.0002	.0004
#3	.0015	-.0017	.0009	.0006	.0002	.0017	.0002	-.0001	.0004
Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Zoom In
Zoom Out

Sample Name: CCB Acquired: 4/6/2015 17:01:22 Type: QC
Method: 60102007_041712(v218) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3037.3	7543.4	43214.	3868.7
Stddev	9.7	15.5	89.	20.6
%RSD	.31953	.20602	.20617	.53322
#1	3029.4	7542.4	43244.	3846.1
#2	3048.1	7559.4	43114.	3886.5
#3	3034.3	7528.3	43285.	3873.5

Zoom In
Zoom Out

Sample Name: MP28761-S1 Acquired: 4/6/2015 17:05:35 Type: Unk
Method: 60102007_041712(v218) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	.0440	65.22	1.635	2.004	.0508	28.96	.0457	.4655	.2587	.2527
Stddev	.0001	.09	.002	.010	.0001	.02	.0001	.0000	.0003	.0007
%RSD	.2426	.1363	.0903	.4896	.1356	.0651	.1577	.0041	.1126	.2722
#1	.0440	65.22	1.634	2.013	.0507	28.94	.0457	.4655	.2588	.2534
#2	.0441	65.13	1.634	1.994	.0508	28.95	.0458	.4655	.2584	.2520
#3	.0439	65.31	1.637	2.006	.0508	28.98	.0457	.4655	.2589	.2527

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	38.60	24.47	25.06	.6329	.4122	25.13	.4669	.5492	.2197	1.686
Stddev	.10	.05	.04	.0015	.0001	.07	.0009	.0001	.0010	.001
%RSD	.2609	.2196	.1717	.2377	.0234	.2792	.1881	.0253	.4777	.0357
#1	38.69	24.48	25.07	.6318	.4121	25.16	.4664	.5491	.2193	1.686
#2	38.49	24.41	25.09	.6322	.4123	25.05	.4679	.5494	.2190	1.687
#3	38.60	24.52	25.01	.6346	.4121	25.18	.4663	.5492	.2209	1.685

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	1.222	.4420	.6045	1.101	1.951	.4745	.4811
Stddev	.001	.0004	.0015	.003	.002	.0012	.0009
%RSD	.0473	.0928	.2558	.2269	.1019	.2530	.1784
#1	1.222	.4416	.6048	1.101	1.950	.4749	.4802
#2	1.222	.4424	.6028	1.099	1.953	.4731	.4819
#3	1.223	.4419	.6059	1.104	1.950	.4754	.4813

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	2679.0	8029.4	45915.	4266.2
Stddev	2.8	8.4	101.	24.0
%RSD	.10625	.10417	.21958	.56369
#1	2677.5	8031.2	45874.	4254.0
#2	2677.2	8020.3	46030.	4250.7
#3	2682.3	8036.8	45841.	4293.9

Zoom In
Zoom Out

Sample Name: MP28761-S2 Acquired: 4/6/2015 17:09:32 Type: Unk
Method: 60102007_041712(v218) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	.0440	66.48	1.622	2.000	.0505	28.96	.0454	.4635	.2583	.2524
Stddev	.0004	.17	.002	.008	.0002	.11	.0000	.0001	.0012	.0007
%RSD	.9791	.2564	.1053	.4100	.3273	.3787	.0656	.0315	.4779	.2887
#1	.0435	66.66	1.621	2.007	.0507	29.07	.0454	.4635	.2590	.2532
#2	.0442	66.32	1.621	1.991	.0503	28.85	.0455	.4633	.2569	.2518
#3	.0444	66.45	1.624	2.002	.0505	28.97	.0454	.4636	.2591	.2521

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	39.13	24.32	25.16	.6697	.4091	24.92	.4673	.5498	.2131	1.674
Stddev	.13	.10	.05	.0021	.0005	.07	.0008	.0013	.0010	.001
%RSD	.3426	.4313	.1791	.3116	.1109	.2772	.1745	.2309	.4613	.0603
#1	39.26	24.44	25.21	.6696	.4088	24.99	.4665	.5500	.2119	1.674
#2	38.99	24.23	25.14	.6677	.4089	24.85	.4673	.5484	.2135	1.674
#3	39.15	24.30	25.13	.6718	.4096	24.92	.4681	.5509	.2138	1.675

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	1.220	.4433	.6003	1.159	1.955	.4749	.4790
Stddev	.001	.0010	.0022	.003	.002	.0009	.0006
%RSD	.0377	.2196	.3702	.2886	.0968	.1952	.1169
#1	1.219	.4422	.6025	1.160	1.957	.4752	.4784
#2	1.220	.4439	.5981	1.155	1.954	.4739	.4790
#3	1.220	.4437	.6003	1.161	1.955	.4757	.4795

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	2680.1	8070.1	46064.	4232.1
Stddev	3.7	3.0	93.	15.3
%RSD	.13948	.03684	.20128	.36245
#1	2675.8	8067.1	45957.	4214.4
#2	2682.4	8070.1	46122.	4239.9
#3	2682.2	8073.1	46113.	4241.9

Zoom In
Zoom Out

Sample Name: FA23271-2 Acquired: 4/6/2015 17:13:30 Type: Unk
Method: 60102007_041712(v218) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	-.0010	70.95	.0135	.1377	.0013	3.445	-.0002	.0050	.0680	.0134
Stddev	.0001	.28	.0010	.0010	.0000	.015	.0001	.0000	.0005	.0002
%RSD	8.704	.3954	7.380	.7069	3.364	.4334	21.86	.6738	.6939	1.612
#1	-.0010	71.23	.0144	.1387	.0013	3.458	-.0003	.0049	.0684	.0133
#2	-.0009	70.95	.0125	.1368	.0012	3.448	-.0002	.0049	.0675	.0137
#3	-.0010	70.67	.0137	.1375	.0013	3.429	-.0002	.0050	.0682	.0133

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	36.37	.9227	2.979	.3886	.0026	.1800	.0260	.0538	-.0002	.0008
Stddev	.23	.0193	.010	.0008	.0001	.0013	.0002	.0003	.0009	.0019
%RSD	.6388	2.091	.3227	.2034	3.761	.7444	.7457	.4786	564.4	252.3
#1	36.59	.9447	2.970	.3881	.0026	.1810	.0260	.0538	.0008	-.0004
#2	36.38	.9088	2.977	.3882	.0027	.1805	.0262	.0540	-.0002	.0029
#3	36.13	.9145	2.989	.3895	.0025	.1785	.0258	.0535	-.0010	-.0003

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	1.186	.0196	.0778	1.309	-.0015	.0588	.0493
Stddev	.002	.0002	.0001	.003	.0003	.0002	.0001
%RSD	.1905	1.243	.1629	.2455	23.49	.2924	.2534
#1	1.184	.0198	.0779	1.310	-.0018	.0588	.0493
#2	1.187	.0193	.0778	1.306	-.0012	.0587	.0493
#3	1.188	.0196	.0776	1.312	-.0013	.0590	.0491

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	2855.9	8471.3	48609.	4413.3
Stddev	4.1	6.8	312.	45.1
%RSD	.14339	.07981	.64240	1.0220
#1	2851.6	8463.8	48785.	4381.2
#2	2856.4	8477.0	48794.	4393.9
#3	2859.8	8473.0	48248.	4464.8

Zoom In
Zoom Out

Sample Name: FA23271-12 Acquired: 4/6/2015 17:17:33 Type: Unk
Method: 60102007_041712(v218) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	-.0006	66.20	.0105	.1100	.0010	23.15	-.0003	.0034	.0601	.0127
Stddev	.0003	.12	.0006	.0002	.0000	.06	.0000	.0000	.0003	.0002
%RSD	41.69	.1849	5.480	.2252	4.891	.2621	7.420	1.160	.5639	1.825
#1	-.0009	66.22	.0111	.1101	.0010	23.11	-.0003	.0034	.0603	.0126
#2	-.0005	66.06	.0101	.1097	.0010	23.11	-.0003	.0034	.0597	.0130
#3	-.0004	66.30	.0102	.1101	.0011	23.22	-.0003	.0033	.0602	.0125

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	33.15	.9128	2.835	.2882	.0020	.1590	.0267	.0465	-.0010	.0003
Stddev	.04	.0034	.019	.0005	.0000	.0011	.0001	.0004	.0004	.0009
%RSD	.1065	.3749	.6844	.1700	.4051	.6776	.3448	.7621	37.01	330.7
#1	33.14	.9108	2.815	.2882	.0020	.1588	.0266	.0464	-.0009	-.0008
#2	33.12	.9168	2.839	.2877	.0020	.1601	.0267	.0469	-.0013	.0010
#3	33.19	.9109	2.853	.2887	.0020	.1580	.0268	.0463	-.0006	.0006

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	1.527	.0207	.0754	1.381	-.0015	.0573	.0544
Stddev	.001	.0000	.0001	.002	.0006	.0002	.0000
%RSD	.0803	.2036	.1579	.1325	36.08	.2929	.0478
#1	1.528	.0207	.0754	1.383	-.0009	.0573	.0545
#2	1.528	.0206	.0753	1.379	-.0018	.0575	.0544
#3	1.526	.0207	.0755	1.382	-.0019	.0571	.0544

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	2827.4	8177.6	46774.	4271.3
Stddev	4.7	10.8	82.	8.9
%RSD	.16534	.13202	.17565	.20869
#1	2825.8	8167.3	46712.	4275.8
#2	2823.8	8176.8	46867.	4277.1
#3	2832.7	8188.8	46742.	4261.1

Zoom In
Zoom Out

Sample Name: FA23272-10 Acquired: 4/6/2015 17:21:38 Type: Unk
Method: 60102007_041712(v218) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)
Avg	-.0026	4.901	.0505	.0875	.0009	F2576.	-.0026	.0021
Stddev	.0004	.014	.0009	.0005	.0000	14.	.0001	.0001
%RSD	13.63	.2919	1.728	.5602	3.621	.5548	2.728	6.904
#1	-.0030	4.885	.0513	.0870	.0009	2570.	-.0025	.0022
#2	-.0023	4.914	.0496	.0880	.0009	2592.	-.0026	.0022
#3	-.0026	4.902	.0507	.0875	.0009	2565.	-.0027	.0019

Elem	Cr2677	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)
Avg	.0275	.0001	29.93	3.505	16.78	.5650	.0008	F93.36
Stddev	.0000	.0002	.10	.022	.05	.0015	.0002	.35
%RSD	.0875	209.9	.3311	.6299	.3157	.2622	21.68	.3733
#1	.0275	-.0001	29.94	3.482	16.73	.5646	.0008	93.51
#2	.0274	.0004	30.02	3.526	16.83	.5638	.0006	93.60
#3	.0274	.0000	29.83	3.506	16.79	.5666	.0009	92.96

Elem	Ni2316	Pb2203	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)
Avg	.0044	.0150	.0035	-.0063	.9963	.0167	F16.12	.0661
Stddev	.0002	.0006	.0012	.0011	.0005	.0003	.06	.0002
%RSD	5.075	4.115	35.56	16.88	.0462	1.872	.3740	.3340
#1	.0041	.0146	.0048	-.0073	.9966	.0163	16.17	.0661
#2	.0046	.0157	.0031	-.0063	.9966	.0168	16.05	.0663
#3	.0045	.0146	.0025	-.0052	.9958	.0169	16.14	.0658

Elem	Tl1908	V_2924	Zn2062
IS Ref	(In2306)	(Y_3600)	(Y_2243)
Avg	F-.0110	.0582	.0170
Stddev	.0014	.0003	.0001
%RSD	12.98	.5503	.6678
#1	-.0093	.0586	.0169
#2	-.0118	.0580	.0169
#3	-.0118	.0580	.0171

Zoom In Zoom Out

Sample Name: FA23272-10 Acquired: 4/6/2015 17:21:38 Type: Unk
Method: 60102007_041712(v218) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	1952.8	6688.4	39060.	4119.5
Stddev	2.0	2.3	83.	21.4
%RSD	.10433	.03480	.21341	.52045
#1	1953.4	6686.2	39156.	4131.0
#2	1954.5	6690.8	39023.	4094.8
#3	1950.5	6688.2	39002.	4132.7

Zoom In Zoom Out

Sample Name: FA23272-11 Acquired: 4/6/2015 17:25:59 Type: Unk
Method: 60102007_041712(v218) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)
Avg	-.0022	10.37	.0973	.1145	.0018	F2064.	-.0020	.0053	.1248
Stddev	.0005	.03	.0008	.0002	.0001	23.	.0000	.0000	.0006
%RSD	21.54	.2646	.8034	.1397	3.316	1.115	2.290	.4328	.4587
#1	-.0016	10.39	.0977	.1145	.0018	2048.	-.0020	.0053	.1254
#2	-.0023	10.39	.0978	.1146	.0017	2054.	-.0019	.0053	.1245
#3	-.0026	10.34	.0964	.1143	.0018	2091.	-.0020	.0053	.1244

Elem	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
IS Ref	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)
Avg	.0019	61.86	2.317	41.69	.9846	.0019	43.83	.0116	.0302
Stddev	.0001	.07	.038	.06	.0017	.0001	.03	.0002	.0001
%RSD	3.550	.1089	1.640	.1364	.1725	7.116	.0745	1.418	.3605
#1	.0018	61.90	2.288	41.75	.9839	.0017	43.87	.0115	.0303
#2	.0019	61.91	2.303	41.66	.9833	.0019	43.80	.0118	.0301
#3	.0018	61.79	2.360	41.65	.9865	.0020	43.82	.0115	.0301

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	.0014	-.0048	.9956	.0154	F17.75	.1199	-.0094	.1077	.0352
Stddev	.0007	.0002	.0008	.0003	.23	.0006	.0005	.0005	.0002
%RSD	52.07	4.451	.0817	2.041	1.275	.4727	5.092	.4744	.4578
#1	.0016	-.0050	.9947	.0157	17.79	.1193	-.0093	.1079	.0353
#2	.0021	-.0046	.9957	.0151	17.96	.1199	-.0099	.1071	.0353
#3	.0006	-.0047	.9963	.0156	17.51	.1204	-.0090	.1080	.0350

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	1997.3	7578.0	43838.	4550.7
Stddev	3.3	3.7	25.	8.8
%RSD	.16285	.04936	.05779	.19380
#1	1993.6	7575.5	43858.	4541.9
#2	1999.9	7576.4	43846.	4559.6
#3	1998.4	7582.3	43809.	4550.6

Zoom In Zoom Out

Sample Name: FA23272-12 Acquired: 4/6/2015 17:30:17 Type: Unk
Method: 60102007_041712(v218) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)
Avg	-.0023	4.460	.0570	.0770	.0008	F2123.	-.0020	.0012	.0612
Stddev	.0002	.016	.0011	.0003	.0001	19.	.0000	.0000	.0005
%RSD	9.635	.3564	1.904	.3676	16.41	.9184	1.078	1.498	.7544
#1	-.0024	4.453	.0580	.0768	.0006	2129.	-.0019	.0012	.0616
#2	-.0021	4.479	.0559	.0773	.0009	2138.	-.0020	.0012	.0612
#3	-.0025	4.449	.0570	.0770	.0008	2101.	-.0020	.0012	.0607

Elem	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
IS Ref	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)
Avg	.0002	26.07	.7974	11.33	.2419	.0008	26.00	.0068	.0236
Stddev	.0001	.09	.0123	.10	.0005	.0001	.05	.0001	.0008
%RSD	44.60	.3437	1.541	.9052	.1909	13.84	.2057	.7410	3.408
#1	.0003	26.04	.7997	11.33	.2422	.0009	25.99	.0068	.0245
#2	.0001	26.17	.8084	11.44	.2422	.0007	26.06	.0069	.0231
#3	.0001	26.00	.7841	11.23	.2414	.0008	25.96	.0068	.0230

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	.0023	-.0033	1.001	.0171	F16.97	.1376	-.0089	.0595	.0145
Stddev	.0012	.0004	.001	.0006	.15	.0006	.0007	.0003	.0001
%RSD	51.78	11.44	.0998	3.260	.8647	.4242	8.241	.5031	.8587
#1	.0014	-.0031	1.000	.0165	17.12	.1383	-.0085	.0598	.0144
#2	.0037	-.0030	.9997	.0173	16.94	.1374	-.0097	.0593	.0144
#3	.0020	-.0037	1.002	.0176	16.83	.1372	-.0084	.0593	.0146

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	2030.9	6858.1	39600.	4060.3
Stddev	4.1	8.8	128.	45.3
%RSD	.20185	.12765	.32306	1.1163
#1	2029.4	6851.7	39586.	4036.2
#2	2027.7	6854.5	39479.	4032.1
#3	2035.5	6868.1	39734.	4112.6

Zoom In Zoom Out

Sample Name: FA23272-13 Acquired: 4/6/2015 17:34:39 Type: Unk
Method: 60102007_041712(v218) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)
Avg	-.0012	17.41	.2447	.2026	.0023	F2889.	-.0024	.0036
Stddev	.0005	.03	.0009	.0010	.0000	24.	.0001	.0002
%RSD	38.74	.1597	.3489	.4930	1.415	.8283	4.064	5.174
#1	-.0014	17.44	.2448	.2033	.0023	2909.	-.0025	.0036
#2	-.0016	17.39	.2455	.2030	.0023	2896.	-.0024	.0037
#3	-.0007	17.39	.2438	.2014	.0023	2862.	-.0023	.0034

Elem	Cr2677	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)
Avg	.2880	.0043	106.9	2.393	71.74	.7874	.0033	37.07
Stddev	.0008	.0001	.3	.026	.14	.0025	.0001	.14
%RSD	.2660	2.630	.2514	1.104	.1988	.3215	3.936	.3656
#1	.2876	.0043	107.2	2.420	71.87	.7859	.0033	37.19
#2	.2889	.0044	107.0	2.391	71.77	.7903	.0034	37.08
#3	.2875	.0041	106.7	2.368	71.59	.7859	.0031	36.92

Elem	Ni2316	Pb2203	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)
Avg	.0220	.0481	.0013	-.0084	1.220	.0138	F36.58	.2247
Stddev	.0001	.0005	.0004	.0013	.001	.0002	.43	.0004
%RSD	.6311	1.093	28.52	15.43	.0435	1.735	1.181	.1930
#1	.0219	.0476	.0015	-.0093	1.219	.0138	36.88	.2247
#2	.0221	.0480	.0008	-.0069	1.220	.0135	36.78	.2252
#3	.0219	.0487	.0015	-.0089	1.220	.0140	36.09	.2243

Elem	Tl1908	V_2924	Zn2062
IS Ref	(In2306)	(Y_3600)	(Y_2243)
Avg	F-.0151	.2556	.0354
Stddev	.0010	.0005	.0001
%RSD	6.622	.1790	.1861
#1	-.0161	.2551	.0354
#2	-.0141	.2560	.0354
#3	-.0152	.2555	.0355

Zoom In Zoom Out

Sample Name: FA23272-13 Acquired: 4/6/2015 17:34:39 Type: Unk
Method: 60102007_041712(v218) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	1814.0	7611.5	44704.	4681.4
Stddev	5.3	12.5	153.	14.8
%RSD	.29263	.16377	.34291	.31607
#1	1809.5	7598.9	44827.	4674.0
#2	1819.9	7612.0	44532.	4671.9
#3	1812.5	7623.8	44753.	4698.5

Zoom In Zoom Out

Sample Name: FA23272-14 Acquired: 4/6/2015 17:38:57 Type: Unk
Method: 60102007_041712(v218) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)
Avg	-.0022	13.14	.1829	.2452	.0018	F3213.	-.0027	.0021
Stddev	.0003	.04	.0007	.0003	.0001	24.	.0001	.0000
%RSD	12.04	.3131	.3743	.1132	5.286	.7520	2.141	1.433
#1	-.0022	13.10	.1834	.2452	.0017	3232.	-.0027	.0020
#2	-.0019	13.14	.1821	.2450	.0017	3186.	-.0026	.0021
#3	-.0025	13.18	.1833	.2455	.0019	3220.	-.0027	.0021

Elem	Cr2677	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)
Avg	.2425	.0017	71.79	3.239	71.18	.6761	.0027	70.98
Stddev	.0005	.0002	.19	.037	.18	.0019	.0001	.07
%RSD	.2101	10.84	.2710	1.157	.2552	.2836	4.830	.1054
#1	.2420	.0015	71.93	3.198	71.38	.6750	.0028	71.06
#2	.2430	.0017	71.57	3.249	71.03	.6750	.0027	70.91
#3	.2427	.0019	71.87	3.271	71.14	.6783	.0026	70.98

Elem	Ni2316	Pb2203	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)
Avg	.0167	.0473	.0023	-.0071	1.048	.0138	F37.46	.1633
Stddev	.0003	.0017	.0010	.0007	.001	.0001	.14	.0003
%RSD	1.850	3.501	41.14	10.11	.1119	.9465	.3851	.2046
#1	.0171	.0485	.0031	-.0069	1.048	.0140	37.46	.1633
#2	.0167	.0481	.0013	-.0065	1.047	.0138	37.60	.1630
#3	.0164	.0454	.0026	-.0079	1.049	.0137	37.31	.1636

Elem	Tl1908	V_2924	Zn2062
IS Ref	(In2306)	(Y_3600)	(Y_2243)
Avg	F-.0165	.1810	.0275
Stddev	.0007	.0004	.0000
%RSD	4.463	.2256	.0661
#1	-.0172	.1806	.0275
#2	-.0157	.1810	.0275
#3	-.0165	.1814	.0275

Zoom In Zoom Out

Sample Name: FA23272-14 Acquired: 4/6/2015 17:38:57 Type: Unk
Method: 60102007_041712(v218) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	1740.7	7579.7	44734.	4706.0
Stddev	3.8	3.4	41.	29.1
%RSD	.21718	.04483	.09059	.61861
#1	1742.7	7579.3	44766.	4672.4
#2	1743.0	7583.3	44688.	4721.8
#3	1736.3	7576.5	44746.	4723.7

Zoom In Zoom Out

Sample Name: FA23272-15 Acquired: 4/6/2015 17:43:15 Type: Unk
Method: 60102007_041712(v218) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)
Avg	-.0030	9.237	.0912	.1937	.0009	F3268.	-.0029	.0010
Stddev	.0006	.015	.0016	.0003	.0001	17.	.0000	.0001
%RSD	21.14	.1649	1.802	.1641	11.30	.5177	.8145	6.008
#1	-.0030	9.253	.0909	.1934	.0009	3250.	-.0029	.0009
#2	-.0036	9.223	.0898	.1935	.0008	3270.	-.0029	.0010
#3	-.0023	9.235	.0930	.1940	.0010	3284.	-.0029	.0010

Elem	Cr2677	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)
Avg	.1392	.0014	29.30	1.655	81.41	.3544	.0015	40.19
Stddev	.0008	.0005	.08	.011	.29	.0008	.0001	.04
%RSD	.5741	36.44	.2840	.6324	.3569	.2286	7.993	.1077
#1	.1386	.0020	29.24	1.653	81.23	.3541	.0014	40.22
#2	.1401	.0013	29.27	1.645	81.26	.3539	.0016	40.14
#3	.1389	.0010	29.40	1.666	81.75	.3554	.0015	40.22

Elem	Ni2316	Pb2203	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)
Avg	.0109	.0330	.0034	-.0073	1.504	.0155	F38.10	.1537
Stddev	.0001	.0011	.0011	.0012	.003	.0003	.21	.0004
%RSD	.9719	3.344	30.92	16.10	.2262	1.871	.5392	.2340
#1	.0108	.0325	.0023	-.0065	1.502	.0155	37.86	.1538
#2	.0109	.0322	.0044	-.0086	1.501	.0152	38.20	.1533
#3	.0110	.0342	.0037	-.0067	1.507	.0158	38.23	.1540

Elem	Tl1908	V_2924	Zn2062
IS Ref	(In2306)	(Y_3600)	(Y_2243)
Avg	F-.0143	.0726	.0184
Stddev	.0012	.0002	.0001
%RSD	8.559	.3235	.3870
#1	-.0140	.0725	.0185
#2	-.0156	.0729	.0184
#3	-.0132	.0725	.0183

Zoom In Zoom Out

Sample Name: FA23272-15 Acquired: 4/6/2015 17:43:15 Type: Unk
Method: 60102007_041712(v218) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	1782.8	6738.9	39520.	4173.0
Stddev	.9	4.5	76.	22.1
%RSD	.04877	.06625	.19349	.52905
#1	1782.9	6733.8	39477.	4196.0
#2	1783.5	6742.3	39608.	4171.1
#3	1781.8	6740.5	39474.	4151.9

Zoom In Zoom Out

Sample Name: CCV Acquired: 4/6/2015 17:47:33 Type: QC
Method: 60102007_041712(v218) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2542	41.92	1.934	2.040	2.036	42.37	2.017	2.012	2.114	2.054
Stddev	.0008	.16	.005	.001	.004	.10	.002	.003	.004	.003
%RSD	.3206	.3885	.2762	.0589	.2131	.2421	.1169	.1269	.2128	.1321
#1	.2533	42.01	1.939	2.041	2.040	42.48	2.015	2.011	2.109	2.052
#2	.2549	41.73	1.929	2.039	2.031	42.27	2.015	2.010	2.118	2.057
#3	.2544	42.01	1.935	2.039	2.036	42.37	2.019	2.015	2.114	2.054
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value										
Range										

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	41.37	41.96	39.96	2.074	1.993	42.45	1.969	1.998	1.952	1.947
Stddev	.09	.17	.23	.010	.005	.13	.001	.005	.003	.008
%RSD	.2268	.3966	.5649	.4909	.2574	.3024	.0728	.2330	.1398	.4045
#1	41.37	42.05	39.74	2.064	1.988	42.53	1.971	1.993	1.955	1.954
#2	41.27	41.77	39.95	2.084	1.993	42.30	1.968	1.999	1.951	1.938
#3	41.46	42.06	40.19	2.074	1.998	42.52	1.969	2.002	1.949	1.949
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value										
Range										

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.201	1.943	2.089	2.109	2.025	2.020	1.998
Stddev	.002	.002	.005	.005	.003	.004	.003
%RSD	.1103	.0785	.2506	.2354	.1424	.1923	.1353
#1	2.203	1.943	2.094	2.103	2.025	2.016	1.996
#2	2.198	1.942	2.084	2.111	2.023	2.023	1.998
#3	2.201	1.945	2.090	2.111	2.028	2.021	2.001
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Zoom In Zoom Out

Sample Name: CCV Acquired: 4/6/2015 17:47:33 Type: QC
Method: 60102007_041712(v218) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2551.6	7160.5	41610.	3765.5
Stddev	8.4	14.4	126.	14.0
%RSD	.32876	.20118	.30284	.37104
#1	2561.3	7176.9	41748.	3761.9
#2	2547.0	7154.7	41500.	3780.9
#3	2546.6	7149.9	41581.	3753.7

Zoom In Zoom Out

Sample Name: CCB Acquired: 4/6/2015 17:51:38 Type: QC
Method: 60102007_041712(v218) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0003	.0053	.0001	.0006	.0002	.0911	.0003	.0003	.0002
Stddev	.0003	.0020	.0010	.0002	.0001	.0011	.0000	.0000	.0002
%RSD	120.1	38.73	813.1	44.02	63.96	1.241	9.565	7.659	95.32
#1	-.0004	.0041	.0012	.0003	.0002	.0924	.0003	.0003	.0002
#2	.0001	.0076	-.0008	.0007	.0002	.0906	.0003	.0003	.0000
#3	-.0004	.0041	.0000	.0007	.0000	.0903	.0003	.0003	.0003
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0001	.0408	.0447	-.0067	.0002	F.0045	.0252	.0003	.0004
Stddev	.0001	.0143	.0146	.0138	.0000	.0014	.0136	.0001	.0004
%RSD	187.2	35.06	32.60	207.1	11.78	30.30	53.93	30.29	101.3
#1	.0000	.0571	.0562	-.0226	.0002	.0060	.0221	.0002	.0007
#2	.0000	.0343	.0283	.0002	.0002	.0043	.0401	.0002	.0005
#3	.0002	.0308	.0496	.0024	.0002	.0033	.0134	.0003	-.0001
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit						.0010			
Low Limit						-.0010			

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F.0025	-.0009	.0009	.0008	.0009	.0015	.0006	.0001	.0004
Stddev	.0006	.0014	.0002	.0003	.0001	.0002	.0003	.0001	.0000
%RSD	24.94	148.4	22.11	32.24	6.370	15.68	46.14	80.39	4.091
#1	.0032	-.0019	.0011	.0011	.0009	.0016	.0005	.0003	.0004
#2	.0019	.0006	.0008	.0006	.0009	.0017	.0010	.0001	.0004
#3	.0024	-.0015	.0007	.0006	.0008	.0012	.0005	.0000	.0004
Check ?	Chk Fail	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	.0020								
Low Limit	-.0020								

Zoom In Zoom Out

Sample Name: CCB Acquired: 4/6/2015 17:51:38 Type: QC
Method: 60102007_041712(v218) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3036.2	7508.6	43831.	3806.5
Stddev	4.4	6.3	140.	32.2
%RSD	.14590	.08340	.31992	.84617
#1	3041.3	7512.4	43682.	3772.1
#2	3033.3	7501.4	43853.	3835.9
#3	3034.0	7512.0	43960.	3811.6

Zoom In Zoom Out

Sample Name: FA23272-16 Acquired: 4/6/2015 17:55:52 Type: Unk
Method: 60102007_041712(v218) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)
Avg	-.0021	4.906	.0953	.2102	.0005	F3835.	-.0038	.0006
Stddev	.0003	.015	.0007	.0005	.0000	28.	.0001	.0001
%RSD	11.89	.2951	.7394	.2203	7.715	.7222	1.614	16.03
#1	-.0019	4.902	.0949	.2099	.0005	3834.	-.0038	.0006
#2	-.0021	4.895	.0961	.2100	.0005	3863.	-.0038	.0007
#3	-.0024	4.923	.0949	.2108	.0006	3808.	-.0039	.0006

Elem	Cr2677	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)
Avg	.0818	-.0025	22.72	2.521	48.86	.3495	.0017	F86.04
Stddev	.0001	.0003	.09	.015	.26	.0006	.0002	.11
%RSD	.1528	10.17	.3877	.5759	.5406	.1857	11.14	.1247
#1	.0817	-.0027	22.62	2.504	48.56	.3488	.0019	86.17
#2	.0817	-.0022	22.75	2.532	49.07	.3495	.0016	85.99
#3	.0819	-.0027	22.78	2.526	48.95	.3501	.0016	85.97

Elem	Ni2316	Pb2203	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)
Avg	.0068	.0147	.0060	-.0095	1.162	.0163	F32.61	.0137
Stddev	.0000	.0010	.0015	.0023	.001	.0001	.33	.0005
%RSD	.4809	6.701	25.43	24.44	.0839	.8117	1.007	3.682
#1	.0068	.0138	.0075	-.0121	1.161	.0162	32.40	.0135
#2	.0068	.0158	.0045	-.0079	1.162	.0164	32.99	.0143
#3	.0068	.0146	.0058	-.0084	1.163	.0162	32.46	.0133

Elem	Tl1908	V_2924	Zn2062
IS Ref	(In2306)	(Y_3600)	(Y_2243)
Avg	F-.0156	.0587	.0081
Stddev	.0019	.0004	.0001
%RSD	12.16	.7137	1.419
#1	-.0168	.0588	.0080
#2	-.0167	.0583	.0080
#3	-.0134	.0591	.0082

Zoom In Zoom Out

Sample Name: FA23272-16 Acquired: 4/6/2015 17:55:52 Type: Unk
Method: 60102007_041712(v218) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	1752.5	6010.1	35179.	3721.5
Stddev	5.2	3.8	111.	16.1
%RSD	.29508	.06324	.31649	.43369
#1	1747.2	6006.8	35246.	3733.2
#2	1757.5	6009.3	35242.	3703.1
#3	1752.8	6014.3	35051.	3728.3

Zoom In Zoom Out

Sample Name: FA23272-17 Acquired: 4/6/2015 18:00:09 Type: Unk
Method: 60102007_041712(v218) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)
Avg	-.0025	4.859	.1008	.2208	.0006	F4095.	-.0042	.0007
Stddev	.0005	.025	.0008	.0011	.0001	37.	.0000	.0001
%RSD	19.87	.5053	.7927	.4762	19.93	.9086	.7686	20.28
#1	-.0021	4.884	.1017	.2220	.0005	4135.	-.0042	.0005
#2	-.0031	4.835	.1001	.2200	.0007	4061.	-.0041	.0008
#3	-.0025	4.857	.1006	.2203	.0006	4091.	-.0042	.0007

Elem	Cr2677	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)
Avg	.0757	.0012	23.65	2.384	62.94	.2929	.0013	78.79
Stddev	.0008	.0003	.03	.012	.06	.0006	.0002	.30
%RSD	1.042	27.00	.1107	.4956	.0924	.2091	17.95	.3747
#1	.0750	.0009	23.67	2.371	62.96	.2922	.0015	79.09
#2	.0754	.0015	23.62	2.385	62.99	.2933	.0014	78.50
#3	.0765	.0011	23.66	2.395	62.88	.2932	.0010	78.79

Elem	Ni2316	Pb2203	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)
Avg	.0070	.0160	.0064	F-.0110	1.123	.0172	F36.97	.0048
Stddev	.0001	.0005	.0004	.0029	.003	.0009	.27	.0005
%RSD	1.623	2.860	5.671	26.11	.2265	4.957	.7315	10.44
#1	.0071	.0162	.0059	-.0081	1.123	.0167	37.08	.0053
#2	.0069	.0155	.0066	-.0109	1.125	.0168	37.17	.0043
#3	.0071	.0164	.0065	-.0139	1.120	.0182	36.66	.0047

Elem	Tl1908	V_2924	Zn2062
IS Ref	(In2306)	(Y_3600)	(Y_2243)
Avg	F-.0178	.0696	.0226
Stddev	.0009	.0003	.0002
%RSD	4.904	.4928	.8627
#1	-.0188	.0693	.0223
#2	-.0177	.0694	.0227
#3	-.0170	.0700	.0226

Zoom In
Zoom Out

Sample Name: FA23272-17 Acquired: 4/6/2015 18:00:09 Type: Unk
Method: 60102007_041712(v218) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	1726.7	5825.0	34535.	3694.0
Stddev	1.0	6.8	79.	10.3
%RSD	.05803	.11685	.22886	.27798
#1	1726.2	5825.9	34556.	3693.4
#2	1726.1	5817.8	34602.	3684.1
#3	1727.9	5831.3	34448.	3704.6

Zoom In
Zoom Out

Sample Name: FA23272-18 Acquired: 4/6/2015 18:04:27 Type: Unk
Method: 60102007_041712(v218) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)
Avg	-.0026	4.753	.1065	.1710	.0005	F3552.	-.0033	.0006
Stddev	.0010	.035	.0007	.0007	.0001	17.	.0000	.0001
%RSD	38.66	.7312	.6645	.4020	12.02	.4720	1.111	17.14
#1	-.0020	4.784	.1061	.1718	.0006	3534.	-.0033	.0006
#2	-.0037	4.715	.1074	.1706	.0005	3556.	-.0033	.0007
#3	-.0020	4.758	.1062	.1707	.0006	3567.	-.0033	.0005

Elem	Cr2677	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)
Avg	.0937	.0025	24.49	1.939	80.81	.2919	.0009	59.27
Stddev	.0007	.0001	.03	.011	.45	.0008	.0002	.15
%RSD	.6981	5.785	.1260	.5469	.5590	.2681	17.11	.2483
#1	.0931	.0024	24.49	1.929	80.45	.2915	.0009	59.40
#2	.0944	.0024	24.53	1.939	80.65	.2928	.0008	59.11
#3	.0935	.0026	24.47	1.950	81.32	.2914	.0011	59.32

Elem	Ni2316	Pb2203	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)
Avg	.0079	.0201	.0047	-.0069	1.060	.0180	F37.01	.0229
Stddev	.0002	.0009	.0005	.0024	.001	.0004	.36	.0004
%RSD	2.228	4.553	10.77	35.67	.0656	2.257	.9674	1.837
#1	.0079	.0200	.0050	-.0053	1.060	.0183	36.63	.0230
#2	.0077	.0210	.0041	-.0097	1.061	.0180	37.07	.0232
#3	.0081	.0192	.0049	-.0056	1.059	.0175	37.34	.0224

Elem	Tl1908	V_2924	Zn2062
IS Ref	(In2306)	(Y_3600)	(Y_2243)
Avg	F-.0146	.0761	.0399
Stddev	.0002	.0004	.0001
%RSD	1.136	.5721	.2288
#1	-.0147	.0765	.0400
#2	-.0144	.0756	.0398
#3	-.0147	.0762	.0400

Zoom In
Zoom Out

Sample Name: FA23272-18 Acquired: 4/6/2015 18:04:27 Type: Unk
Method: 60102007_041712(v218) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	1795.9	6017.7	35588.	3703.9
Stddev	2.2	8.7	69.	26.1
%RSD	.12221	.14406	.19510	.70351
#1	1793.4	6013.3	35620.	3733.5
#2	1797.2	6012.1	35509.	3693.7
#3	1797.2	6027.6	35637.	3684.5

Zoom In
Zoom Out

Sample Name: FA23272-19 Acquired: 4/6/2015 18:08:45 Type: Unk
Method: 60102007_041712(v218) Mode: CONC Corr. Factor: 5.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)
Avg	-.0175	10.01	.3376	.8600	-.0006	F23560.	-.0225	.0023
Stddev	.0006	.09	.0061	.0049	.0004	268.	.0004	.0005
%RSD	3.154	.8970	1.814	.5645	55.50	1.136	1.706	22.95
#1	-.0169	9.928	.3423	.8553	-.0008	23460.	-.0226	.0025
#2	-.0178	10.01	.3307	.8597	-.0002	23350.	-.0221	.0017
#3	-.0179	10.11	.3400	.8650	-.0008	23860.	-.0229	.0026

Elem	Cr2677	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)
Avg	.4805	.0020	54.36	7.932	1097.	1.153	.0040	285.0
Stddev	.0051	.0008	.40	.107	9.	.003	.0004	1.6
%RSD	1.060	40.04	.7365	1.354	.8375	.2500	10.73	.5489
#1	.4864	.0027	53.93	7.893	1090.	1.152	.0036	283.5
#2	.4781	.0021	54.44	7.850	1094.	1.156	.0045	285.0
#3	.4770	.0012	54.72	8.054	1108.	1.150	.0040	286.6

Elem	Ni2316	Pb2203	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)
Avg	.0333	.0587	.0397	F-.0776	3.079	.0857	F402.4	*****
Stddev	.0024	.0071	.0067	.0079	.008	.0015	1.2	-----
%RSD	7.270	12.15	16.80	10.24	.2679	1.719	.3024	-----
#1	.0357	.0507	.0471	-.0701	3.085	.0872	402.9	-----
#2	.0333	.0612	.0342	-.0766	3.084	.0855	403.4	-----
#3	.0309	.0643	.0378	-.0859	3.070	.0843	401.1	-----

Elem	Tl1908	V_2924	Zn2062
IS Ref	(In2306)	(Y_3600)	(Y_2243)
Avg	F-.1195	.3544	.0513
Stddev	.0045	.0013	.0008
%RSD	3.788	.3718	1.496
#1	-.1205	.3559	.0513
#2	-.1235	.3539	.0506
#3	-.1146	.3534	.0521

Zoom In
Zoom Out

Sample Name: FA23272-19 Acquired: 4/6/2015 18:08:45 Type: Unk
Method: 60102007_041712(v218) Mode: CONC Corr. Factor: 5.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	1604.5	5417.9	32442.	3528.6
Stddev	.8	4.2	78.	41.6
%RSD	.05229	.07675	.24034	1.1788
#1	1605.3	5422.0	32435.	3556.3
#2	1603.6	5418.0	32368.	3548.8
#3	1604.5	5413.7	32523.	3480.8

Zoom In
Zoom Out

Sample Name: FA23272-20 Acquired: 4/6/2015 18:13:04 Type: Unk
Method: 60102007_041712(v218) Mode: CONC Corr. Factor: 5.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)
Avg	-.0175	12.21	.4853	.8466	.0005	F23070.	-.0158	.0216
Stddev	.0017	.11	.0497	.0025	.0004	191.	.0049	.0148
%RSD	9.667	.8785	10.24	.2910	83.93	.8280	31.09	68.47
#1	-.0190	12.17	.4368	.8452	.0002	22900.	-.0202	.0071
#2	-.0157	12.34	.4830	.8453	.0009	23280.	-.0165	.0211
#3	-.0179	12.14	.5361	.8495	.0003	23030.	-.0105	.0367

Elem	Cr2677	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)
Avg	.6039	-.0012	57.00	16.35	939.4	.9631	.0490	356.0
Stddev	.0034	.0008	.08	.11	2.2	.0029	.0348	.5
%RSD	.5638	62.82	.1355	.6996	.2389	.2963	71.08	.1430
#1	.6061	-.0014	57.09	16.22	939.6	.9662	.0166	356.3
#2	.6000	-.0004	56.96	16.43	941.5	.9605	.0445	355.4
#3	.6057	-.0020	56.96	16.40	937.1	.9627	.0858	356.2

Elem	Ni2316	Pb2203	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)
Avg	.0714	.1761	.0183	.1135	3.465	.2044	*****	*****
Stddev	.0262	.0719	.0238	.0699	.064	.0935	-----	-----
%RSD	36.67	40.80	130.2	61.62	1.857	45.77	-----	-----
#1	.0474	.1138	.0429	.0355	3.415	.1150	-----	-----
#2	.0675	.1599	.0168	.1342	3.442	.1965	-----	-----
#3	.0992	.2547	-.0047	.1707	3.537	.3016	445.6	-----

Elem	Tl1908	V_2924	Zn2062
IS Ref	(In2306)	(Y_3600)	(Y_2243)
Avg	F-.1425	.4216	.0519
Stddev	.0371	.0035	.0064
%RSD	26.03	.8277	12.37
#1	-.1166	.4256	.0463
#2	-.1260	.4200	.0505
#3	-.1851	.4192	.0589

Zoom In
Zoom Out

Sample Name: FA23272-20 Acquired: 4/6/2015 18:13:04 Type: Unk
Method: 60102007_041712(v218) Mode: CONC Corr. Factor: 5.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	1499.3	5243.1	32523.	3581.1
Stddev	13.6	49.7	245.	25.8
%RSD	.90948	.94878	.75230	.72121
#1	1515.0	5299.1	32712.	3597.3
#2	1490.9	5226.5	32609.	3551.3
#3	1491.9	5203.8	32246.	3594.6

Zoom In
Zoom Out

Sample Name: FA23272-21 Acquired: 4/6/2015 18:17:16 Type: Unk
Method: 60102007_041712(v218) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)
Avg	-.0033	3.777	.0484	.1652	.0002	F3740.	-.0034	.0005
Stddev	.0002	.012	.0007	.0003	.0001	25.	.0000	.0001
%RSD	7.222	.3116	1.543	.1603	54.93	.6670	.9726	19.46
#1	-.0031	3.764	.0492	.1652	.0001	3745.	-.0034	.0005
#2	-.0032	3.782	.0478	.1650	.0002	3763.	-.0034	.0006
#3	-.0035	3.786	.0482	.1655	.0003	3714.	-.0033	.0005

Elem	Cr2677	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)
Avg	.0950	.0114	7.990	1.525	161.5	.1542	.0014	39.56
Stddev	.0004	.0005	.007	.023	.3	.0004	.0001	.07
%RSD	.3987	4.261	.0901	1.486	.1820	.2359	8.244	.1807
#1	.0950	.0114	7.999	1.551	161.2	.1542	.0014	39.62
#2	.0953	.0118	7.985	1.512	161.8	.1546	.0016	39.58
#3	.0946	.0108	7.987	1.511	161.5	.1538	.0014	39.48

Elem	Ni2316	Pb2203	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)
Avg	.0084	.0138	.0066	F-.0113	1.119	.0175	F60.82	.0132
Stddev	.0002	.0009	.0008	.0014	.002	.0001	.70	.0005
%RSD	1.934	6.575	12.24	12.85	.1322	.6074	1.158	3.478
#1	.0083	.0140	.0072	-.0126	1.119	.0176	60.42	.0127
#2	.0082	.0146	.0057	-.0097	1.118	.0174	60.41	.0136
#3	.0085	.0128	.0068	-.0115	1.121	.0175	61.64	.0133

Elem	Tl1908	V_2924	Zn2062
IS Ref	(In2306)	(Y_3600)	(Y_2243)
Avg	F-.0142	.0633	.0620
Stddev	.0006	.0003	.0002
%RSD	3.909	.4613	.3519
#1	-.0136	.0636	.0621
#2	-.0143	.0632	.0618
#3	-.0147	.0631	.0622

Zoom In
Zoom Out

Sample Name: FA23272-21 Acquired: 4/6/2015 18:17:16 Type: Unk
Method: 60102007_041712(v218) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	1731.1	5810.1	34252.	3604.4
Stddev	3.1	7.8	56.	3.4
%RSD	.17666	.13428	.16337	.09465
#1	1727.6	5806.3	34188.	3604.6
#2	1733.2	5819.1	34285.	3600.9
#3	1732.6	5804.9	34284.	3607.7

Zoom In
Zoom Out

Sample Name: FA23272-22 Acquired: 4/6/2015 18:21:33 Type: Unk
Method: 60102007_041712(v218) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	-.0010	3.635	.0026	.0470	.0004	357.1	-.0002	.0003	.0324	.0005
Stddev	.0004	.015	.0008	.0005	.0000	3.4	.0000	.0000	.0001	.0002
%RSD	35.85	.4240	30.00	.9661	11.57	.9391	9.998	15.96	.2237	38.89
#1	-.0012	3.623	.0020	.0467	.0004	356.8	-.0002	.0002	.0325	.0006
#2	-.0011	3.652	.0035	.0468	.0004	360.5	-.0002	.0003	.0324	.0003
#3	-.0006	3.630	.0023	.0475	.0003	353.8	-.0002	.0003	.0324	.0006

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	2.243	2.306	12.90	.0339	-.0002	52.57	.0031	.0092	.0007	-.0012
Stddev	.008	.005	.07	.0001	.0000	.23	.0001	.0005	.0007	.0003
%RSD	.3583	.2101	.5378	.1496	15.06	.4373	3.758	5.397	103.3	28.34
#1	2.234	2.302	12.85	.0340	-.0002	52.36	.0030	.0093	.0010	-.0013
#2	2.250	2.312	12.98	.0339	-.0002	52.52	.0032	.0096	.0012	-.0008
#3	2.245	2.306	12.88	.0339	-.0002	52.81	.0030	.0086	-.0001	-.0014

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	1.068	.0202	2.464	.1084	-.0008	.0134	.0066
Stddev	.001	.0001	.011	.0003	.0001	.0001	.0000
%RSD	.0692	.7387	.4493	.2930	8.773	.5719	.5972
#1	1.068	.0200	2.457	.1087	-.0009	.0135	.0066
#2	1.068	.0202	2.459	.1084	-.0008	.0133	.0065
#3	1.067	.0203	2.477	.1081	-.0008	.0134	.0065

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	2490.8	7096.5	41424.	3782.3
Stddev	2.5	8.4	182.	32.5
%RSD	.09980	.11781	.43883	.86025
#1	2488.6	7093.2	41226.	3813.5
#2	2490.2	7090.2	41465.	3748.5
#3	2493.5	7106.0	41582.	3784.9

Zoom In
Zoom Out

Sample Name: FA23272-23 Acquired: 4/6/2015 18:25:48 Type: Unk
Method: 60102007_041712(v218) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	-.0004	4.402	.0036	.0219	.0002	371.7	-.0002	.0002	.0266	.0038
Stddev	.0004	.015	.0007	.0003	.0001	3.7	.0000	.0001	.0001	.0001
%RSD	100.5	.3288	20.28	1.480	21.63	1.000	15.94	33.80	.2700	3.009
#1	-.0003	4.414	.0044	.0216	.0002	375.5	-.0002	.0002	.0265	.0039
#2	-.0001	4.386	.0034	.0219	.0003	368.1	-.0002	.0001	.0267	.0038
#3	-.0009	4.407	.0030	.0222	.0002	371.4	-.0003	.0002	.0267	.0037

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	3.369	2.282	7.521	.0213	-.0002	37.66	.0034	.0054	-.0004	-.0014
Stddev	.017	.041	.032	.0000	.0001	.08	.0002	.0006	.0001	.0013
%RSD	.4907	1.805	.4243	.1552	61.37	.2184	5.020	10.67	23.13	89.59
#1	3.379	2.307	7.555	.0212	-.0004	37.75	.0033	.0060	-.0004	-.0028
#2	3.350	2.234	7.492	.0213	-.0002	37.60	.0033	.0049	-.0003	-.0003
#3	3.378	2.304	7.516	.0213	-.0002	37.62	.0036	.0054	-.0003	-.0011

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	1.134	.0204	2.032	.0928	-.0012	.0103	.0091
Stddev	.003	.0004	.004	.0002	.0007	.0001	.0000
%RSD	.2458	1.773	.1839	.1874	59.94	.8829	.3601
#1	1.137	.0202	2.036	.0929	-.0015	.0104	.0091
#2	1.132	.0208	2.031	.0929	-.0004	.0103	.0091
#3	1.134	.0202	2.029	.0926	-.0017	.0103	.0090

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	2504.4	7187.6	41978.	3826.8
Stddev	2.8	2.0	48.	19.4
%RSD	.11313	.02803	.11545	.50579
#1	2502.1	7186.4	41939.	3807.3
#2	2503.4	7190.0	42032.	3846.1
#3	2507.6	7186.6	41964.	3826.9

Zoom In
Zoom Out

Sample Name: FA23272-24 Acquired: 4/6/2015 18:30:04 Type: Unk
Method: 60102007_041712(v218) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)
Avg	-.0031	4.969	.0124	.4421	.0001	F4441.	-.0047	.0003
Stddev	.0005	.016	.0010	.0017	.0000	9.	.0001	.0001
%RSD	16.88	.3180	7.895	.3889	15.19	.1982	1.386	24.02
#1	-.0026	4.961	.0126	.4405	.0002	4451.	-.0048	.0004
#2	-.0036	4.987	.0132	.4419	.0001	4435.	-.0047	.0003
#3	-.0032	4.959	.0113	.4440	.0001	4438.	-.0047	.0003

Elem	Cr2677	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)
Avg	.0323	-.0005	13.37	1.656	37.79	.2149	.0005	F83.38
Stddev	.0004	.0002	.04	.009	.17	.0011	.0003	.10
%RSD	1.317	31.31	.3037	.5607	.4479	.5138	51.82	.1222
#1	.0327	-.0007	13.32	1.667	37.79	.2162	.0007	83.36
#2	.0321	-.0006	13.37	1.651	37.63	.2141	.0002	83.50
#3	.0319	-.0004	13.40	1.650	37.97	.2145	.0007	83.30

Elem	Ni2316	Pb2203	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)
Avg	.0041	.0112	.0062	F-.0102	1.254	.0173	F34.49	*****
Stddev	.0001	.0012	.0002	.0024	.001	.0001	.49	-----
%RSD	2.365	10.40	3.441	23.07	.0364	.4443	1.412	-----
#1	.0041	.0099	.0064	-.0129	1.254	.0174	34.86	-.0250
#2	.0042	.0119	.0063	-.0093	1.254	.0173	33.94	-----
#3	.0040	.0119	.0060	-.0084	1.253	.0173	34.67	-----

Elem	Tl1908	V_2924	Zn2062
IS Ref	(In2306)	(Y_3600)	(Y_2243)
Avg	F-.0185	.0247	.0051
Stddev	.0004	.0002	.0000
%RSD	2.120	.7715	.6770
#1	-.0183	.0245	.0052
#2	-.0182	.0249	.0051
#3	-.0189	.0247	.0052

Zoom In Zoom Out

Sample Name: FA23272-24 Acquired: 4/6/2015 18:30:04 Type: Unk
Method: 60102007_041712(v218) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	1687.5	5600.5	33160.	3555.1
Stddev	3.5	3.6	207.	5.5
%RSD	.20776	.06410	.62456	.15401
#1	1684.0	5598.9	32922.	3551.1
#2	1687.6	5598.0	33298.	3561.4
#3	1691.0	5604.6	33260.	3552.9

Zoom In Zoom Out

Sample Name: FA23272-25 Acquired: 4/6/2015 18:34:22 Type: Unk
Method: 60102007_041712(v218) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	-.0008	1.675	.0042	.0280	.0002	444.2	-.0003	.0001	.0100	.0025
Stddev	.0003	.003	.0009	.0001	.0001	4.9	.0000	.0001	.0001	.0001
%RSD	30.15	.1597	20.11	.4573	56.97	1.092	13.72	79.82	1.489	5.351
#1	-.0008	1.678	.0052	.0278	.0001	445.6	-.0003	.0002	.0101	.0023
#2	-.0006	1.674	.0037	.0281	.0001	438.8	-.0003	.0000	.0101	.0026
#3	-.0011	1.673	.0038	.0280	.0003	448.2	-.0002	.0001	.0098	.0025

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	1.250	2.228	7.312	.0176	-.0005	51.53	.0016	.0035	.0003	-.0010
Stddev	.007	.028	.018	.0001	.0001	.11	.0001	.0007	.0007	.0011
%RSD	.5831	1.255	.2503	.8425	14.63	.2220	8.721	19.05	216.8	111.1
#1	1.251	2.235	7.328	.0177	-.0006	51.61	.0017	.0035	.0007	-.0022
#2	1.256	2.197	7.316	.0174	-.0005	51.58	.0014	.0042	-.0005	-.0003
#3	1.242	2.252	7.292	.0177	-.0005	51.39	.0016	.0029	.0007	-.0003

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	.8253	.0206	2.775	.0264	-.0021	.0057	.0053
Stddev	.0019	.0001	.006	.0002	.0006	.0001	.0000
%RSD	.2306	.3804	.2139	.8677	27.33	1.988	.9166
#1	.8231	.0206	2.776	.0266	-.0015	.0058	.0054
#2	.8267	.0206	2.780	.0262	-.0027	.0057	.0053
#3	.8260	.0205	2.768	.0263	-.0021	.0055	.0053

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	2458.1	7014.8	41104.	3819.5
Stddev	3.9	11.6	55.	17.8
%RSD	.15938	.16598	.13468	.46535
#1	2457.7	7003.4	41166.	3803.7
#2	2462.1	7026.7	41088.	3838.8
#3	2454.3	7014.2	41059.	3816.1

Zoom In Zoom Out

Sample Name: CCV Acquired: 4/6/2015 18:38:39 Type: QC
Method: 60102007_041712(v218) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2508	41.90	1.951	2.042	2.015	41.44	2.023	2.019	2.089	2.044
Stddev	.0013	.13	.002	.006	.005	.15	.000	.002	.009	.005
%RSD	.5073	.3185	.1221	.2986	.2376	.3583	.0030	.0727	.4120	.2379
#1	.2507	41.82	1.952	2.043	2.011	41.35	2.023	2.021	2.098	2.043
#2	.2497	42.06	1.949	2.048	2.020	41.62	2.023	2.018	2.082	2.041
#3	.2522	41.83	1.953	2.035	2.014	41.37	2.023	2.018	2.085	2.050
Check ?	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass
Value																				
Range																				

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	40.24	42.09	38.92	2.038	2.007	42.31	1.979	1.995	1.969	1.969
Stddev	.13	.18	.19	.022	.004	.11	.001	.002	.002	.004
%RSD	.3144	.4246	.4778	1.101	.2018	.2560	.0428	.0767	.0763	.1920
#1	40.22	41.88	38.77	2.064	2.003	42.29	1.980	1.996	1.970	1.966
#2	40.37	42.18	39.13	2.022	2.008	42.43	1.978	1.996	1.968	1.968
#3	40.12	42.20	38.85	2.028	2.010	42.22	1.978	1.994	1.968	1.974
Check ?	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass
Value																				
Range																				

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.222	1.962	2.099	2.080	2.027	2.012	2.000
Stddev	.002	.001	.004	.006	.002	.004	.001
%RSD	.1014	.0475	.1876	.2716	.0938	.2003	.0231
#1	2.224	1.961	2.097	2.082	2.028	2.017	1.999
#2	2.220	1.961	2.103	2.073	2.029	2.010	2.000
#3	2.223	1.963	2.096	2.083	2.025	2.010	2.000
Check ?	None	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass
Value											
Range											

Zoom In Zoom Out

Sample Name: CCV Acquired: 4/6/2015 18:38:39 Type: QC
Method: 60102007_041712(v218) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2557.2	7147.4	42180.	3789.5
Stddev	4.5	5.0	307.	31.4
%RSD	.17438	.07054	.72700	.82883
#1	2558.5	7150.2	41830.	3820.1
#2	2552.2	7141.5	42308.	3757.3
#3	2560.8	7150.4	42401.	3791.0

Zoom In
Zoom Out

Sample Name: CCB Acquired: 4/6/2015 18:42:44 Type: QC
Method: 60102007_041712(v218) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0006	.0037	.0004	.0006	.0002	.0463	.0001	.0002	.0004
Stddev	.0002	.0037	.0003	.0000	.0001	.0046	.0001	.0000	.0001
%RSD	43.57	98.08	96.79	5.416	60.05	9.919	35.13	19.73	38.72
#1	-.0007	.0065	.0000	.0005	.0002	.0508	.0001	.0002	.0005
#2	-.0007	-.0004	.0004	.0006	.0002	.0466	.0002	.0002	.0002
#3	-.0003	.0051	.0007	.0006	.0001	.0416	.0001	.0001	.0003
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000	.0444	.0457	.0081	.0001	F.0042	.0218	.0003	.0002
Stddev	.0001	.0094	.0125	.0210	.0000	.0013	.0046	.0002	.0001
%RSD	384.8	21.14	27.32	258.3	18.82	32.01	21.35	66.98	81.00
#1	.0001	.0546	.0592	.0179	.0001	.0056	.0164	.0004	.0001
#2	.0000	.0425	.0346	-.0160	.0001	.0040	.0244	.0002	.0001
#3	-.0001	.0361	.0432	.0224	.0001	.0030	.0245	.0001	.0004
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit						.0010			
Low Limit						-.0010			

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0008	-.0006	.0005	.0009	.0004	.0018	.0005	.0002	.0003
Stddev	.0005	.0004	.0002	.0003	.0001	.0002	.0003	.0002	.0000
%RSD	69.78	69.86	34.40	32.74	28.93	10.19	50.20	143.6	4.272
#1	.0013	-.0004	.0006	.0012	.0005	.0020	.0003	.0002	.0003
#2	.0003	-.0004	.0003	.0006	.0003	.0019	.0004	.0004	.0003
#3	.0006	-.0012	.0004	.0009	.0003	.0016	.0008	-.0001	.0002
Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Zoom In
Zoom Out

Sample Name: CCB Acquired: 4/6/2015 18:42:44 Type: QC
Method: 60102007_041712(v218) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3037.1	7500.8	44101.	3789.0
Stddev	4.6	2.0	64.	8.0
%RSD	.14991	.02634	.14521	.21207
#1	3039.4	7502.9	44046.	3788.5
#2	3031.8	7498.9	44171.	3797.2
#3	3040.0	7500.7	44085.	3781.2

Zoom In
Zoom Out

Sample Name: FA23272-26 Acquired: 4/6/2015 18:46:57 Type: Unk
Method: 60102007_041712(v218) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)
Avg	-.0015	2.422	.0069	.0611	.0005	F1072.	-.0005	.0001	.0196
Stddev	.0003	.016	.0006	.0002	.0001	4.	.0000	.0000	.0001
%RSD	17.83	.6390	8.606	.3831	12.80	.3382	4.882	12.34	.7293
#1	-.0012	2.414	.0063	.0613	.0005	1073.	-.0005	.0001	.0197
#2	-.0018	2.413	.0069	.0609	.0004	1075.	-.0005	.0001	.0195
#3	-.0014	2.440	.0075	.0613	.0005	1068.	-.0005	.0001	.0197

Elem	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
IS Ref	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)
Avg	.0010	2.307	1.559	10.21	.0580	.0007	32.54	.0019	.0055
Stddev	.0001	.008	.016	.04	.0002	.0002	.03	.0001	.0005
%RSD	6.061	.3486	1.012	.4360	.2916	27.61	.0891	6.881	8.662
#1	.0009	2.297	1.565	10.17	.0582	.0009	32.51	.0018	.0061
#2	.0010	2.312	1.571	10.26	.0578	.0005	32.57	.0020	.0052
#3	.0010	2.310	1.541	10.20	.0581	.0006	32.53	.0020	.0052

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	.0018	-.0028	1.029	.0187	F6.621	.0623	-.0042	.0169	.0063
Stddev	.0009	.0009	.002	.0001	.031	.0001	.0009	.0001	.0000
%RSD	46.36	32.14	.1802	.2819	.4628	.1295	21.55	.3289	.1328
#1	.0009	-.0018	1.031	.0187	6.591	.0623	-.0052	.0169	.0063
#2	.0026	-.0031	1.027	.0187	6.652	.0622	-.0033	.0170	.0063
#3	.0021	-.0035	1.028	.0188	6.621	.0623	-.0042	.0169	.0063

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	2242.3	7156.8	42071.	4082.6
Stddev	3.9	3.7	103.	13.3
%RSD	.17322	.05150	.24409	.32500
#1	2246.3	7159.7	42138.	4073.7
#2	2238.5	7152.7	42121.	4076.3
#3	2242.2	7158.2	41952.	4097.8

Zoom In
Zoom Out

Sample Name: CRIA Acquired: 4/6/2015 18:51:21 Type: Unk
Method: 60102007_041712(v218) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	.0097	.2182	.0102	.2122	.0053	1.200	.0054	.0547	.0112	.0274
Stddev	.0003	.0106	.0003	.0007	.0000	.031	.0000	.0002	.0002	.0003
%RSD	2.977	4.874	3.087	.3340	.1981	2.574	.7928	.3610	1.576	.9319
#1	.0100	.2176	.0099	.2120	.0053	1.232	.0054	.0546	.0111	.0274
#2	.0096	.2292	.0100	.2130	.0054	1.198	.0054	.0549	.0111	.0277
#3	.0094	.2079	.0105	.2116	.0053	1.170	.0053	.0547	.0114	.0272

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	.3273	10.93	5.094	.0165	.0506	11.20	.0434	.0050	.0050	.0091
Stddev	.0016	.03	.055	.0000	.0001	.03	.0001	.0002	.0001	.0008
%RSD	.4919	.2982	1.086	.1084	.2266	.3118	.3131	3.622	1.842	8.377
#1	.3261	10.94	5.149	.0166	.0507	11.18	.0433	.0052	.0049	.0082
#2	.3267	10.95	5.096	.0165	.0506	11.23	.0434	.0050	.0050	.0094
#3	.3291	10.89	5.038	.0165	.0505	11.17	.0436	.0048	.0051	.0097

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	.0428	.0531	.0112	.0108	.0104	.0504	.0223
Stddev	.0004	.0001	.0001	.0001	.0003	.0001	.0000
%RSD	.8307	.1083	.8627	1.306	3.016	.2087	.1719
#1	.0425	.0532	.0112	.0107	.0101	.0505	.0224
#2	.0427	.0531	.0113	.0108	.0107	.0503	.0223
#3	.0432	.0531	.0111	.0109	.0103	.0505	.0223

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	2883.9	7378.0	43348.	3768.9
Stddev	5.9	7.0	73.	24.9
%RSD	.20540	.09488	.16885	.65952
#1	2890.1	7385.9	43377.	3747.0
#2	2883.4	7372.6	43265.	3763.8
#3	2878.3	7375.6	43403.	3795.9

Zoom In Zoom Out

Sample Name: ICSA Acquired: 4/6/2015 18:55:29 Type: Unk
Method: 60102007_041712(v218) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)
Avg	-.0005	F516.2	.0018	.0004	.0000	481.2	.0004	-.0002
Stddev	.0005	8.6	.0005	.0002	.0001	1.2	.0000	.0001
%RSD	101.5	1.664	31.34	41.91	466.8	.2473	5.169	53.04
#1	-.0003	515.1	.0011	.0004	.0002	479.8	.0004	-.0003
#2	-.0011	508.2	.0022	.0003	-.0001	482.0	.0004	-.0001
#3	-.0001	525.2	.0019	.0006	-.0001	481.7	.0004	-.0003

Elem	Cr2677	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)
Avg	.0008	-.0012	178.8	.0904	472.0	-.0001	.0020	.1869
Stddev	.0001	.0004	.1	.0294	.9	.0000	.0001	.0094
%RSD	16.97	28.55	.0721	32.58	.1838	7.232	5.336	5.043
#1	.0008	-.0016	179.0	.1172	471.8	-.0001	.0021	.1948
#2	.0009	-.0010	178.7	.0589	471.2	-.0001	.0019	.1764
#3	.0007	-.0010	178.8	.0950	472.9	-.0001	.0019	.1895

Elem	Ni2316	Pb2203	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)
Avg	.0024	F-.0129	-.0008	.0013	.0340	.0009	.0000	.0011
Stddev	.0002	.0015	.0019	.0028	.0003	.0003	.000	.0001
%RSD	7.923	11.74	244.5	209.6	.9961	36.84	665.5	9.994
#1	.0022	-.0133	.0014	.0009	.0341	.0013	.0000	.0012
#2	.0026	-.0112	-.0018	.0042	.0336	.0007	.0000	.0011
#3	.0025	-.0142	-.0019	-.0012	.0342	.0007	-.0001	.0010

Elem	Tl1908	V_2924	Zn2062
IS Ref	(In2306)	(Y_3600)	(Y_2243)
Avg	-.0012	.0004	-.0025
Stddev	.0002	.0001	.0002
%RSD	14.12	28.16	8.544
#1	-.0013	.0003	-.0025
#2	-.0012	.0004	-.0024
#3	-.0010	.0005	-.0028

Zoom In Zoom Out

Sample Name: ICSA Acquired: 4/6/2015 18:55:29 Type: Unk
Method: 60102007_041712(v218) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	2244.2	6576.2	38128.	3667.3
Stddev	5.5	8.5	35.	14.8
%RSD	.24605	.12920	.09144	.40308
#1	2248.8	6568.5	38113.	3673.1
#2	2238.1	6574.8	38168.	3678.3
#3	2245.5	6585.3	38103.	3650.5

Zoom In Zoom Out

Sample Name: ICSAB Acquired: 4/6/2015 18:59:49 Type: Unk
Method: 60102007_041712(v218) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)
Avg	F.9844	F520.9	1.034	.5243	.5127	491.8	.9281	.4763	.5122
Stddev	.0029	6.5	.004	.0013	.0017	5.3	.0009	.0002	.0003
%RSD	.2994	1.249	.3796	.2541	.3237	1.087	.1020	.0440	.0570
#1	.9816	518.9	1.032	.5229	.5110	489.8	.9286	.4765	.5123
#2	.9841	515.6	1.038	.5245	.5128	487.7	.9271	.4761	.5119
#3	.9875	528.2	1.030	.5255	.5144	497.8	.9288	.4764	.5125

Elem	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
IS Ref	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)
Avg	.5553	184.5	.0456	475.8	.5168	.9460	.1530	.9405	.9556
Stddev	.0005	.7	.0205	2.6	.0012	.0008	.0065	.0008	.0026
%RSD	.0951	.3816	45.03	.5510	.2327	.0845	4.228	.0860	.2681
#1	.5556	183.7	.0539	472.9	.5163	.9456	.1517	.9411	.9530
#2	.5547	184.6	.0606	476.5	.5160	.9455	.1473	.9396	.9581
#3	.5555	185.1	.0222	478.0	.5182	.9469	.1601	.9408	.9557

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	1.054	1.005	.0975	.9153	1.059	1.053	.9648	.4810	.9486
Stddev	.002	.001	.0012	.0001	.004	.002	.0054	.0013	.0010
%RSD	.1904	.0571	1.234	.0089	.3446	.1487	.5592	.2688	.1085
#1	1.054	1.005	.0988	.9152	1.055	1.052	.9667	.4815	.9491
#2	1.052	1.004	.0964	.9154	1.062	1.052	.9587	.4795	.9475
#3	1.056	1.005	.0973	.9154	1.060	1.054	.9690	.4820	.9493

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	2202.1	6532.8	37466.	3591.6
Stddev	5.2	5.1	51.	36.5
%RSD	.23571	.07737	.13508	1.0174
#1	2205.7	6529.1	37522.	3627.0
#2	2204.5	6538.5	37425.	3593.7
#3	2196.2	6530.7	37451.	3554.0

Zoom In Zoom Out

Sample Name: CCV Acquired: 4/6/2015 19:04:04 Type: QC
Method: 60102007_041712(v218) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2539	42.00	1.941	2.050	2.007	41.40	2.012	2.011	2.103	2.052
Stddev	.0007	.07	.002	.003	.003	.16	.003	.003	.003	.004
%RSD	.2576	.1702	.0860	.1363	.1447	.3813	.1365	.1388	.1555	.1851
#1	.2532	42.06	1.940	2.052	2.008	41.51	2.009	2.009	2.100	2.048
#2	.2544	41.92	1.940	2.047	2.004	41.22	2.012	2.011	2.101	2.053
#3	.2541	42.01	1.943	2.051	2.010	41.46	2.015	2.014	2.106	2.055
Check ?	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass
Value										
Range										

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	40.35	41.98	38.93	2.063	2.003	42.78	1.973	1.988	1.960	1.958
Stddev	.14	.08	.11	.004	.008	.06	.001	.004	.004	.002
%RSD	.3585	.1953	.2901	.1844	.3878	.1364	.0364	.1826	.1876	.1015
#1	40.45	41.96	39.06	2.067	1.995	42.82	1.973	1.989	1.960	1.956
#2	40.19	41.91	38.86	2.059	2.003	42.71	1.973	1.984	1.957	1.957
#3	40.42	42.07	38.88	2.064	2.010	42.81	1.974	1.991	1.964	1.960
Check ?	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass
Value										
Range										

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.207	1.944	2.093	2.104	2.023	2.014	1.991
Stddev	.004	.002	.002	.002	.002	.003	.003
%RSD	.1882	.0882	.1165	.1154	.1074	.1471	.1476
#1	2.203	1.944	2.093	2.101	2.026	2.010	1.988
#2	2.206	1.943	2.090	2.105	2.021	2.014	1.990
#3	2.211	1.946	2.095	2.105	2.023	2.016	1.994
Check ?	None	Chk	Pass	Chk	Pass	Chk	Pass
Value							
Range							

Zoom In Zoom Out

Sample Name: CCV Acquired: 4/6/2015 19:04:04 Type: QC
Method: 60102007_041712(v218) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2543.2	7122.2	41538.	3683.2
Stddev	2.3	15.4	73.	32.9
%RSD	.08903	.21652	.17495	.89255
#1	2545.6	7139.1	41618.	3652.0
#2	2543.1	7118.7	41518.	3717.5
#3	2541.0	7108.9	41477.	3680.2

Zoom In Zoom Out

Sample Name: CCB Acquired: 4/6/2015 19:08:09 Type: QC
Method: 60102007_041712(v218) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0002	-.0037	.0004	.0004	.0002	.0231	.0002	.0002	.0001
Stddev	.0002	.0064	.0003	.0001	.0001	.0056	.0001	.0001	.0001
%RSD	93.07	170.5	76.43	21.17	27.98	24.43	35.28	35.48	58.07
#1	-.0001	.0028	.0006	.0004	.0002	.0294	.0002	.0001	.0002
#2	-.0005	-.0100	.0001	.0004	.0003	.0187	.0002	.0002	.0001
#3	-.0001	-.0040	.0006	.0005	.0002	.0211	.0001	.0002	.0001
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0001	F.0573	.0307	-.0076	.0002	F.0046	-.0010	.0001	-.0002
Stddev	.0002	.0119	.0086	.0228	.0000	.0015	.0010	.0001	.0004
%RSD	248.9	20.77	27.95	298.0	29.32	32.57	100.7	106.4	171.6
#1	.0001	.0696	.0398	-.0054	.0002	.0061	-.0020	.0001	-.0005
#2	.0000	.0564	.0228	.0139	.0002	.0043	.0001	.0003	.0002
#3	-.0002	.0459	.0295	-.0314	.0001	.0032	-.0012	.0000	-.0005
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit		.0500				.0010			
Low Limit		-.0500				-.0010			

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0010	-.0001	.0003	.0009	.0002	.0018	.0004	.0000	.0002
Stddev	.0006	.0018	.0003	.0002	.0000	.0002	.0011	.0003	.0000
%RSD	57.38	1742.	84.13	19.13	10.26	13.10	262.5	2420.	20.29
#1	.0015	.0016	.0000	.0010	.0002	.0021	.0013	-.0001	.0003
#2	.0010	-.0020	.0004	.0010	.0002	.0017	-.0008	-.0002	.0002
#3	.0004	.0001	.0006	.0007	.0003	.0016	.0007	.0004	.0002
Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Zoom In Zoom Out

Sample Name: CCB Acquired: 4/6/2015 19:08:09 Type: QC
Method: 60102007_041712(v218) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3030.7	7455.8	44220.	3749.9
Stddev	6.3	10.6	123.	34.8
%RSD	.20790	.14195	.27865	.92719
#1	3033.2	7466.1	44148.	3711.5
#2	3023.5	7445.0	44362.	3779.2
#3	3035.3	7456.3	44149.	3759.0

Element, Wavelength and Order	Use?	# IECs	IEC	k1	k2	Calc-in-fit?
Ag 328.068 {103}	X	3	V	-0.009834	0.000000	No
			Fe	0.000002	0.000000	No
			Mg	0.000000	0.000000	No
Al 396.152 { 85}	X	1	Mo	0.035224	0.000000	No
As 189.042 {478}	X	5	Fe	-0.000077	0.000000	No
			Cr	-0.000226	0.000000	No
			Mo	-0.000017	0.000000	No
			Al	0.000004	0.000000	No
			Ca	0.000002	0.000000	No
Ba 455.403 { 74}	X	1	Fe	0.000004	0.000000	No
Be 313.042 {108}	X	2	V	0.000115	0.000000	No
			Ti	-0.000059	0.000000	No
Ca 317.933 {106}	X	None				
Cd 226.502 {449}	X	4	Fe	0.000089	0.000000	No
			Ca	0.000001	0.000000	No
			Al	-0.000001	0.000000	No
			Ti	0.000151	0.000000	No
Co 228.616 {447}	X	3	Mo	-0.001220	0.000000	No
			Ti	0.003012	0.000000	No
			Fe	0.000004	0.000000	No
Cr 267.716 {126}	X	3	Al	0.000001	0.000000	No
			Fe	0.000001	0.000000	No
			Ca	0.000002	0.000000	No
Cu 324.754 {104}	X	10	Fe	-0.000183	0.000000	No
			Ca	0.000002	0.000000	No
			Mo	0.000528	0.000000	No
			Sn	-0.000012	0.000000	No
			V	-0.000158	0.000000	No
			Ti	-0.000251	0.000000	No
			Al	0.000008	0.000000	No
			Mg	0.000005	0.000000	No
			Co	-0.000787	0.000000	No
			Cd	0.000240	0.000000	No
Fe 259.940 {130}	X	None				
In 230.606 {446}*	X	None				
K 766.490 { 44}	X	None				
Mg 279.079 {121}	X	None				
Mn 257.610 {131}	X	2	Fe	0.000008	0.000000	No
			Mg	0.000000	0.000000	No
Mo 202.030 {467}	X	1	Fe	-0.000027	0.000000	No
Na 589.592 { 57}	X	None				
Ni 231.604 {445}	X	7	Fe	-0.000032	0.000000	No
			Co	-0.000054	0.000000	No
			Mo	0.000005	0.000000	No
			Sb	-0.000120	0.000000	No
			Al	0.000003	0.000000	No
			Be	-0.000269	0.000000	No
			Tl	0.000440	0.000000	No
Pb 220.353 {453}	X	9	Al	0.000249	0.000000	No
			Fe	0.000085	0.000000	No
			Mo	-0.001012	0.000000	No
			Cu	0.001070	0.000000	No
			Ti	0.000036	0.000000	No
			Si	0.000071	0.000000	No
			Ca	0.000003	0.000000	No
			Cr	0.000050	0.000000	No
			Mg	0.000000	0.000000	No

Element, Wavelength and Order	Use?	# IECs	IEC	k1	k2	Calc-in-fit?
Sb 206.833 {463}	X	10	Fe	0.000059	0.000000	No
			Cr	0.012140	0.000000	No
			Mo	-0.004076	0.000000	No
			V	-0.000611	0.000000	No
			Sn	-0.010736	0.000000	No
			Ti	0.000040	0.000000	No
			Ca	-0.000001	0.000000	No
			Ni	-0.000438	0.000000	No
			Mg	0.000000	0.000000	No
			Al	-0.000002	0.000000	No
Se 196.090 {472}	X	10	Fe	-0.000015	0.000000	No
			Ca	-0.000000	0.000000	No
			Mn	0.000574	0.000000	No
			Mo	0.000111	0.000000	No
			Al	-0.000034	0.000000	No
			V	0.000000	0.000000	No
			Zn	0.000000	0.000000	No
			Sr	0.000137	0.000000	No
			As	-0.000032	0.000000	No
			Be	0.000212	0.000000	No
Si 212.412 {459}	X	1	Mo	0.019120	0.000000	No
Sn 189.989 {477}	X	None				
Sr 407.771 { 83}	X	1	Ca	0.000017	0.000000	No
Ti 334.941 {101}	X	1	Ca	-0.000008	0.000000	No
Tl 190.856 {477}	X	11	Co	0.001145	0.000000	No
			Fe	0.000007	0.000000	No
			Al	-0.000011	0.000000	No
			Ba	-0.000051	0.000000	No
			Ti	-0.002651	0.000000	No
			Sb	0.000012	0.000000	No
			Ca	0.000003	0.000000	No
			Cr	0.000230	0.000000	No
			Mg	-0.000003	0.000000	No
			Mn	0.000818	0.000000	No
			V	-0.038621	0.000000	No
V 292.402 {115}	X	5	Fe	0.000015	0.000000	No
			Cr	-0.002590	0.000000	No
			Mo	-0.005797	0.000000	No
			Ti	0.000364	0.000000	No
			Mn	-0.000693	0.000000	No
Y 224.306 {450}*	X	None				
Y 360.073 { 94}*	X	None				
Y 371.030 { 91}*	X	None				
Zn 206.200 {463}	X	5	Cr	-0.000965	0.000000	No
			Al	0.000016	0.000000	No
			Ca	0.000003	0.000000	No
			Fe	-0.000026	0.000000	No
			As	0.001128	0.000000	No

	Element, Wavelength and Order	Date of Fit	Date of Cal.	Type of Fit	Weighting	A0	A1	A2	n (Exponent)
	Ag 328.068 {103}	4/6/2015 10:12:52	4/6/2015 9:45:32	Linear	1/Conc	0.000242	0.580410	0.000000	1.000000
	Al 396.152 { 85}	4/6/2015 10:12:52	4/6/2015 9:45:32	Linear	1/Conc	0.002450	0.183861	0.000000	1.000000
	As 189.042 {478}	4/6/2015 10:12:52	4/6/2015 9:45:32	Linear	1/Conc	-0.000241	0.205986	0.000000	1.000000
	Ba 455.403 { 74}	4/6/2015 10:12:52	4/6/2015 9:45:32	Linear	1/Conc	0.011141	10.955070	0.000000	1.000000
	Be 313.042 {108}	4/6/2015 10:12:52	4/6/2015 9:45:32	Linear	1/Conc	-0.000286	8.112992	0.000000	1.000000
	Ca 317.933 {106}	4/6/2015 10:12:52	4/6/2015 9:45:32	Linear	1/Conc	0.007837	0.262063	0.000000	1.000000
	Cd 226.502 {449}	4/6/2015 10:12:52	4/6/2015 9:45:32	Linear	1/Conc	0.000295	5.110998	0.000000	1.000000
	Co 228.616 {447}	4/6/2015 10:12:52	4/6/2015 9:45:32	Linear	1/Conc	0.000613	2.408271	0.000000	1.000000
	Cr 267.716 {126}	4/6/2015 10:12:52	4/6/2015 9:45:32	Linear	1/Conc	0.000187	0.517470	0.000000	1.000000
	Cu 324.754 {104}	4/6/2015 10:12:52	4/6/2015 9:45:32	Linear	1/Conc	0.003695	0.801180	0.000000	1.000000
	Fe 259.940 {130}	4/6/2015 10:12:52	4/6/2015 9:45:32	Linear	1/Conc	0.003176	0.125167	0.000000	1.000000
	In 230.606 {446}*	4/6/2015 10:12:52	5/5/2010 12:30:54	Linear	1/Conc	0.000000	0.000000	0.000000	1.000000
	K 766.490 { 44}	4/6/2015 10:12:52	4/6/2015 9:45:32	Linear	1/Conc	-0.007447	0.162664	0.000000	1.000000
	Mg 279.079 {121}	4/6/2015 10:12:52	4/6/2015 9:45:32	Linear	1/Conc	0.000135	0.022687	0.000000	1.000000
	Mn 257.610 {131}	4/6/2015 10:12:52	4/6/2015 9:45:32	Linear	1/Conc	0.000592	2.907258	0.000000	1.000000
	Mo 202.030 {467}	4/6/2015 10:12:52	4/6/2015 9:45:32	Linear	1/Conc	0.002728	1.213025	0.000000	1.000000
	Na 589.592 { 57}	4/6/2015 10:12:52	4/6/2015 9:45:32	Linear	1/Conc	-0.008813	0.542034	0.000000	1.000000
	Ni 231.604 {445}	4/6/2015 10:12:52	4/6/2015 9:45:32	Linear	1/Conc	0.000097	1.371846	0.000000	1.000000
	Pb 220.353 {453}	4/6/2015 10:12:52	4/6/2015 9:45:32	Linear	1/Conc	0.000019	1.263150	0.000000	1.000000
	Sb 206.833 {463}	4/6/2015 10:12:52	4/6/2015 9:45:32	Linear	1/Conc	0.000856	0.249786	0.000000	1.000000
	Se 196.090 {472}	4/6/2015 10:12:52	4/6/2015 9:45:32	Linear	1/Conc	-0.000413	0.150158	0.000000	1.000000
	Si 212.412 {459}	4/6/2015 10:12:52	4/6/2015 9:45:32	Linear	1/Conc	0.007907	0.382043	0.000000	1.000000
	Sn 189.989 {477}	4/6/2015 10:12:52	4/6/2015 9:45:32	Linear	1/Conc	0.000585	0.463787	0.000000	1.000000
	Sr 407.771 { 83}	4/6/2015 10:12:52	4/6/2015 9:45:32	Linear	1/Conc	0.002684	18.556286	0.000000	1.000000
	Ti 334.941 {101}	4/6/2015 10:12:52	4/6/2015 9:45:32	Linear	1/Conc	0.002590	1.901358	0.000000	1.000000
	Tl 190.856 {477}	4/6/2015 10:12:52	4/6/2015 9:45:32	Linear	1/Conc	-0.003165	0.623739	0.000000	1.000000
	V 292.402 {115}	4/6/2015 10:12:52	4/6/2015 9:45:32	Linear	1/Conc	-0.000180	0.699873	0.000000	1.000000
	Y 224.306 {450}*	<not fit>	<Never Calibrated>	Linear	1/Conc	0.000000	0.000000	0.000000	1.000000
	Y 360.073 { 94}*	<not fit>	<Never Calibrated>	Linear	1/Conc	0.000000	0.000000	0.000000	1.000000
	Y 371.030 { 91}*	<not fit>	<Never Calibrated>	Linear	1/Conc	0.000000	0.000000	0.000000	1.000000
	Zn 206.200 {463}	4/6/2015 10:12:52	4/6/2015 9:45:32	Linear	1/Conc	0.003459	3.100231	0.000000	1.000000

Element, Wavelength and Order	Correlation	Std Error of Est	Predicted MDL	Predicted MQL	Status	Reslope		QC Norm	
						Slope	Y-int	Slope factor	Offset
Ag 328.068 {103}	0.999952	0.000053	0.000420	0.001401	OK.	1.000000	0.000000	1	0
Al 396.152 { 85}	0.999938	0.003309	0.010896	0.036322	OK.	1.000000	0.000000	1	0
As 189.042 {478}	0.999946	0.000172	0.000671	0.002236	OK.	1.000000	0.000000	1	0
Ba 455.403 { 74}	0.999964	0.007444	0.000254	0.000846	OK.	1.000000	0.000000	1	0
Be 313.042 {108}	0.999978	0.004361	0.000092	0.000308	OK.	1.000000	0.000000	1	0
Ca 317.933 {106}	0.999991	0.001770	0.003495	0.011650	OK.	1.000000	0.000000	1	0
Cd 226.502 {449}	0.999958	0.003778	0.000042	0.000141	OK.	1.000000	0.000000	1	0
Co 228.616 {447}	0.999936	0.002194	0.000096	0.000319	OK.	1.000000	0.000000	1	0
Cr 267.716 {126}	0.999979	0.000267	0.000288	0.000959	OK.	1.000000	0.000000	1	0
Cu 324.754 {104}	0.999957	0.000597	0.000275	0.000916	OK.	1.000000	0.000000	1	0
Fe 259.940 {130}	0.999978	0.001328	0.003394	0.011315	OK.	1.000000	0.000000	1	0
In 230.606 {446}*	0.000000	0.000000	-1.000000	-1.000000	Warnin	1.000000	0.000000	1	0
K 766.490 { 44}	0.999937	0.002939	0.026343	0.087811	OK.	1.000000	0.000000	1	0
Mg 279.079 {121}	0.999987	0.000187	0.024017	0.080055	OK.	1.000000	0.000000	1	0
Mn 257.610 {131}	0.999966	0.001931	0.000044	0.000148	OK.	1.000000	0.000000	1	0
Mo 202.030 {467}	0.999934	0.001124	0.000119	0.000396	OK.	1.000000	0.000000	1	0
Na 589.592 { 57}	0.999968	0.007001	0.007936	0.026452	OK.	1.000000	0.000000	1	0
Ni 231.604 {445}	0.999926	0.001347	0.000164	0.000547	OK.	1.000000	0.000000	1	0
Pb 220.353 {453}	0.999840	0.001835	0.000450	0.001501	OK.	1.000000	0.000000	1	0
Sb 206.833 {463}	0.999927	0.000243	0.000905	0.003015	OK.	1.000000	0.000000	1	0
Se 196.090 {472}	0.999962	0.000106	0.001415	0.004716	OK.	1.000000	0.000000	1	0
Si 212.412 {459}	0.980609	0.006267	0.000423	0.001411	OK.	1.000000	0.000000	1	0
Sn 189.989 {477}	0.999691	0.000929	0.000251	0.000838	OK.	1.000000	0.000000	1	0
Sr 407.771 { 83}	0.999906	0.020454	0.000092	0.000306	OK.	1.000000	0.000000	1	0
Ti 334.941 {101}	0.999955	0.001449	0.000119	0.000397	OK.	1.000000	0.000000	1	0
Tl 190.856 {477}	0.999979	0.000315	0.000588	0.001961	OK.	1.000000	0.000000	1	0
V 292.402 {115}	0.999933	0.000649	0.000272	0.000905	OK.	1.000000	0.000000	1	0
Y 224.306 {450}*	0.000000	0.000000	-1.000000	-1.000000	Warnin	1.000000	0.000000	1	0
Y 360.073 { 94}*	0.000000	0.000000	-1.000000	-1.000000	Warnin	1.000000	0.000000	1	0
Y 371.030 { 91}*	0.000000	0.000000	-1.000000	-1.000000	Warnin	1.000000	0.000000	1	0
Zn 206.200 {463}	0.999953	0.002421	0.000050	0.000168	OK.	1.000000	0.000000	1	0

Accutest Laboratories SE **Metals Digestion Log Water** DOD

Method of digestion(circle one): SW846-3010A / SW846-3005A / EPA 200.7 / SM3030C

MP #: 28731

Prep Date/Time (mm/dd/yy 24:00): 3/31/15 8:02

HotBlock I.D. 5

Thermometer I.D. 204

Correction Factor (°C) -1

Temperature Observed/Corrected (°C) 96, 95

Spk. Sol. A	Volume Used(ml)	Pipette #
ACC 875	0.50	10
ACC 846	0.25	10
MET 5069	0.25	10

Dig. Tube Lot#: MP2492

Added B:	HNO_3	HCL
Lot#	0000100512	0000088821

Sample #		Initial Volume(ml)	pH<2	Final Volume(ml)	Comments
Method Blank(MB)		50.0	N/A	50.0	
Spike Blank(SB)			N/A		
Matrix Spike(MS)			✓		
Matrix Spike Dup(MSD)			✓		
Duplicate(DUP)			✓		
1 QC C	FA23021-5 D 1		✓		
2	6 1		✓		
3	7 8		✓		
4	8 14		✓		
5	9 8		✓		
6	10 2		✓		
7	11 6		✓		
8	5F 2		✓		
9	6F 2		✓		
10	7F 9		✓		
11	8F 15		✓		
12	9F 9		✓		
13	10F 3		✓		
14	11F 7		✓		
15	FA23189-43 3		✓		
16	FA22900-1 2		✓		
17	2		✓		
18	3		✓		
19	4		✓		
20	5		✓		
21 E					
22 E					
23 E					
24 E					

DB 3/31/15

Analyst: [signature] Date: 3/31/15

QC Review: [signature] Date: 3-31-15

A Used for SB, MS, MSD
B For reagent volumes used consult SOP MET 103, current revision
C Parent sample used to prepare MS, MSD, DUP
D Bottle Number
E Additional matrix QC

icpwaterdigestionlog091113.xls Rev 01/20/10 DM

DOD

Accutest Laboratories SE Metals Digestion Log Soil

MP #: 28734 Method of Digestion: SW846-3050B

Prep Date/Time (mm/dd/yy 24:00): 3/31/15 9:13

HotBlock I.D. 6

Thermometer I.D. 6071

Correction Factor (°C) -1

Temperature Observed/Corrected (°C) 91 / 90

Balance I.D. ADVPrD3

Spk. Sol. A	Volume Used(ml)	Pipette #
ACC 875	0.50	10
ACC 866	0.25	10
Met 5069	0.25	10

Filter Lot#: 140730082

Dig. Tube Lot# MP2492

Added B:

	H_2O_2	HNO_3	HCL	PTFE Boiling Chips
Lot#	145881	0000100512	0000088821	K779-4K009

Sample #			Wt., g	Final Volume(ml)	Comments
Method Blank(MB)			1.00	50.0	
Spike Blank(SB)			1.00		
Matrix Spike(MS)			1.14		
Matrix Spike Dup(MSD)			1.00		
Duplicate(DUP)			1.46		
1 QC C	FA23189-20	D 3	1.23		
2	1	1	1.12		
3	3		1.12		
4	5		1.20		
5	7		1.24		
6	9		1.05		
7	11		1.18		
8	13		1.11		
9	14		1.19		
10	16		1.24		
11	18		1.25		
12	22		1.21		
13	24		1.39		
14	25		1.10		
15	27		1.41		
16	29		1.14		
17	31		1.44		
18	33		1.14		
19	35		1.11		
20	37		1.16		
21 E					
22 E					DB
23 E			3/31/15		
24 E					

Analyst: [signature] Date: 3/31/15

QC Review: [signature] Date: 3.31.15

A Used for SB, MS, MSD
B For reagent volumes used consult SOP MET 104, current revision
C Parent sample used to prepare MS, MSD, DUP
D Bottle Number
E Additional Matrix QC

icpsoildigestionlog012010.xls Rev 01/20/10 DM

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9.6.2

9

DOD

Accutest Laboratories SE Metals Digestion Log Soil

MP #: 28752 Method of Digestion: SW846-3050B

Prep Date/Time (mm/dd/yy 24:00): 4/3/15 8:04

HotBlock I.D. 5

Thermometer I.D. 204

Correction Factor (°C) -1

Temperature Observed/Corrected (°C) 94/93

Balance I.D. ADVPRO 3

Spk. Sol. A	Volume Used(ml)	Pipette #
ACC 875	0.50	10
ACC 866	0.25	10
Met 5093	0.25	10

Filter Lot#: 140730082

Dig. Tube Lot# MP2492

Added B:	H_2O_2	HNO_3	HCL	PTFE Boiling Chips
Lot#	145881	0000102053	0000088821	K779-4K004

Sample #		D	Wt., g	Final Volume(ml)	Comments
Method Blank(MB)			1.00	50.0	
Spike Blank(SB)			1.00		
Matrix Spike(MS)			1.27		
Matrix Spike Dup(MSD)			1.28		
Duplicate(DUP)			1.14		
1 QC C	FA23258-5	3	1.23		
2	1	1	1.05		
3	3		1.10		
4	7		1.24		
5	8		1.16		
6	10		1.27		
7	12		1.34		
8	15		1.16		
9	17		1.11		
10	19		1.03		
11	21		1.25		
12	22		1.10		
13	23		1.24		
14	25		1.18		
15	27		1.15		
16	29		1.33		
17	31		1.11		
18	33		1.02		
19	FA23189-39		1.15		
20	41		1.23		
21 E					
22 E					DB
23 E					
24 E	4/3/15				

Analyst: [signature] Date: 4/3/15

QC Review: [signature] Date: 4.3.15

A Used for SB, MS, MSD
B For reagent volumes used consult SOP MET 104, current revision
C Parent sample used to prepare MS, MSD, DUP
D Bottle Number
E Additional Matrix QC

icpsoildigestionlog012010.xls Rev 01/20/10 DM

Southeast ACCUTEST LABORATORIES

General Chemistry

QC Data Summaries

Includes the following where applicable:

- Percent Solids Raw Data Summary

Percent Solids Raw Data Summary

Job Number: FA23189
Account: FPMRNYR FPM Remediations
Project: HM-AZ PBR Holloman AFB; Alamogordo, NM

Sample: FA23189-1 **Analyzed:** 30-MAR-15 by DM **Method:** SM19 2540G
ClientID: SR859-1

Wet Weight (Total)	7.51	g
Tare Weight	1.03	g
Dry Weight (Total)	6.62	g
Solids, Percent	86.3	%

Sample: FA23189-2 **Analyzed:** 01-APR-15 by LE **Method:** SM19 2540G
ClientID: SR859-1A

Wet Weight (Total)	8.1	g
Tare Weight	1.02	g
Dry Weight (Total)	6.46	g
Solids, Percent	76.8	%

Sample: FA23189-3 **Analyzed:** 30-MAR-15 by DM **Method:** SM19 2540G
ClientID: SR859-2

Wet Weight (Total)	7.59	g
Tare Weight	1.01	g
Dry Weight (Total)	6.65	g
Solids, Percent	85.7	%

Sample: FA23189-4 **Analyzed:** 01-APR-15 by LE **Method:** SM19 2540G
ClientID: SR859-2A

Wet Weight (Total)	6.76	g
Tare Weight	1.11	g
Dry Weight (Total)	5.5	g
Solids, Percent	77.7	%

Sample: FA23189-5 **Analyzed:** 30-MAR-15 by DM **Method:** SM19 2540G
ClientID: SR859-3

Wet Weight (Total)	7.55	g
Tare Weight	1.02	g
Dry Weight (Total)	6.62	g
Solids, Percent	85.8	%

Sample: FA23189-6 **Analyzed:** 01-APR-15 by LE **Method:** SM19 2540G
ClientID: SR859-3A

Wet Weight (Total)	6.9	g
Tare Weight	1.02	g
Dry Weight (Total)	5.79	g
Solids, Percent	81.1	%

Percent Solids Raw Data Summary

Job Number: FA23189
Account: FPMRNYR FPM Remediations
Project: HM-AZ PBR Holloman AFB; Alamogordo, NM

Sample: FA23189-7 **Analyzed:** 01-APR-15 by LE **Method:** SM19 2540G
ClientID: SR859-4

Wet Weight (Total)	6.07	g
Tare Weight	1.03	g
Dry Weight (Total)	4.91	g
Solids, Percent	77	%

Sample: FA23189-8 **Analyzed:** 01-APR-15 by LE **Method:** SM19 2540G
ClientID: SR859-4A

Wet Weight (Total)	6.41	g
Tare Weight	1.04	g
Dry Weight (Total)	5.57	g
Solids, Percent	84.4	%

Sample: FA23189-9 **Analyzed:** 30-MAR-15 by DM **Method:** SM19 2540G
ClientID: SR859-5

Wet Weight (Total)	8.8	g
Tare Weight	1.04	g
Dry Weight (Total)	7.97	g
Solids, Percent	89.3	%

Sample: FA23189-10 **Analyzed:** 01-APR-15 by LE **Method:** SM19 2540G
ClientID: SR859-5A

Wet Weight (Total)	8	g
Tare Weight	1.03	g
Dry Weight (Total)	6.86	g
Solids, Percent	83.6	%

Sample: FA23189-11 **Analyzed:** 30-MAR-15 by DM **Method:** SM19 2540G
ClientID: SR859-6

Wet Weight (Total)	8.61	g
Tare Weight	.99	g
Dry Weight (Total)	7.38	g
Solids, Percent	83.9	%

Sample: FA23189-12 **Analyzed:** 01-APR-15 by LE **Method:** SM19 2540G
ClientID: SR859-6A

Wet Weight (Total)	8.16	g
Tare Weight	1.06	g
Dry Weight (Total)	6.35	g
Solids, Percent	74.5	%

Percent Solids Raw Data Summary

Job Number: FA23189
Account: FPMRNYR FPM Remediations
Project: HM-AZ PBR Holloman AFB; Alamogordo, NM

Sample: FA23189-13 **Analyzed:** 01-APR-15 by LE **Method:** SM19 2540G
ClientID: SR859-7

Wet Weight (Total)	7.49	g
Tare Weight	1.02	g
Dry Weight (Total)	6.02	g
Solids, Percent	77.3	%

Sample: FA23189-14 **Analyzed:** 01-APR-15 by LE **Method:** SM19 2540G
ClientID: SR859-107

Wet Weight (Total)	7.65	g
Tare Weight	1.03	g
Dry Weight (Total)	6.24	g
Solids, Percent	78.7	%

Sample: FA23189-15 **Analyzed:** 01-APR-15 by LE **Method:** SM19 2540G
ClientID: SR859-7A

Wet Weight (Total)	7.63	g
Tare Weight	1.02	g
Dry Weight (Total)	6.13	g
Solids, Percent	77.3	%

Sample: FA23189-16 **Analyzed:** 01-APR-15 by LE **Method:** SM19 2540G
ClientID: SR859-8

Wet Weight (Total)	6.81	g
Tare Weight	1.03	g
Dry Weight (Total)	5.56	g
Solids, Percent	78.4	%

Sample: FA23189-17 **Analyzed:** 01-APR-15 by LE **Method:** SM19 2540G
ClientID: SR859-8A

Wet Weight (Total)	7.72	g
Tare Weight	1.02	g
Dry Weight (Total)	6.19	g
Solids, Percent	77.2	%

Sample: FA23189-18 **Analyzed:** 01-APR-15 by LE **Method:** SM19 2540G
ClientID: SR859-9

Wet Weight (Total)	8.71	g
Tare Weight	1.04	g
Dry Weight (Total)	6.44	g
Solids, Percent	70.4	%

Percent Solids Raw Data Summary

Job Number: FA23189
Account: FPMRNYR FPM Remediations
Project: HM-AZ PBR Holloman AFB; Alamogordo, NM

Sample: FA23189-19 **Analyzed:** 01-APR-15 by LE **Method:** SM19 2540G
ClientID: SR859-9A

Wet Weight (Total)	7.27	g
Tare Weight	1	g
Dry Weight (Total)	5.59	g
Solids, Percent	73.2	%

Sample: FA23189-20 **Analyzed:** 31-MAR-15 by DM **Method:** SM19 2540G
ClientID: SR859-10

Wet Weight (Total)	7.43	g
Tare Weight	1.01	g
Dry Weight (Total)	6.11	g
Solids, Percent	79.4	%

Sample: FA23189-21 **Analyzed:** 01-APR-15 by LE **Method:** SM19 2540G
ClientID: SR859-10A

Wet Weight (Total)	7.16	g
Tare Weight	1.01	g
Dry Weight (Total)	6.22	g
Solids, Percent	84.7	%

Sample: FA23189-22 **Analyzed:** 01-APR-15 by LE **Method:** SM19 2540G
ClientID: SR859-11

Wet Weight (Total)	6.91	g
Tare Weight	1.03	g
Dry Weight (Total)	5.85	g
Solids, Percent	82	%

Sample: FA23189-23 **Analyzed:** 01-APR-15 by LE **Method:** SM19 2540G
ClientID: SR859-11A

Wet Weight (Total)	7.69	g
Tare Weight	1.06	g
Dry Weight (Total)	6.44	g
Solids, Percent	81.1	%

Sample: FA23189-24 **Analyzed:** 01-APR-15 by LE **Method:** SM19 2540G
ClientID: SR859-12

Wet Weight (Total)	6.78	g
Tare Weight	1.02	g
Dry Weight (Total)	5.97	g
Solids, Percent	85.9	%

Percent Solids Raw Data Summary

Job Number: FA23189
Account: FPMRNYR FPM Remediations
Project: HM-AZ PBR Holloman AFB; Alamogordo, NM

Sample: FA23189-25 **Analyzed:** 01-APR-15 by LE **Method:** SM19 2540G
ClientID: SR859-112

Wet Weight (Total)	7.31	g
Tare Weight	1.05	g
Dry Weight (Total)	6.44	g
Solids, Percent	86.1	%

Sample: FA23189-26 **Analyzed:** 01-APR-15 by LE **Method:** SM19 2540G
ClientID: SR859-12A

Wet Weight (Total)	7.01	g
Tare Weight	1	g
Dry Weight (Total)	7	g
Solids, Percent	99.8	%

Sample: FA23189-27 **Analyzed:** 01-APR-15 by LE **Method:** SM19 2540G
ClientID: SR859-13

Wet Weight (Total)	8.18	g
Tare Weight	.99	g
Dry Weight (Total)	6.18	g
Solids, Percent	72.2	%

Sample: FA23189-28 **Analyzed:** 01-APR-15 by LE **Method:** SM19 2540G
ClientID: SR859-13A

Wet Weight (Total)	6.81	g
Tare Weight	1.01	g
Dry Weight (Total)	5.62	g
Solids, Percent	79.5	%

Sample: FA23189-29 **Analyzed:** 01-APR-15 by LE **Method:** SM19 2540G
ClientID: SR859-14

Wet Weight (Total)	6.78	g
Tare Weight	1.06	g
Dry Weight (Total)	5.5	g
Solids, Percent	77.6	%

Sample: FA23189-30 **Analyzed:** 01-APR-15 by LE **Method:** SM19 2540G
ClientID: SR859-14A

Wet Weight (Total)	7.28	g
Tare Weight	.97	g
Dry Weight (Total)	6.33	g
Solids, Percent	84.9	%

Percent Solids Raw Data Summary

Job Number: FA23189
Account: FPMRNYR FPM Remediations
Project: HM-AZ PBR Holloman AFB; Alamogordo, NM

Sample: FA23189-31 **Analyzed:** 01-APR-15 by LE **Method:** SM19 2540G
ClientID: SR859-15

Wet Weight (Total)	6.22	g
Tare Weight	1.04	g
Dry Weight (Total)	4.99	g
Solids, Percent	76.3	%

Sample: FA23189-32 **Analyzed:** 01-APR-15 by LE **Method:** SM19 2540G
ClientID: SR859-15A

Wet Weight (Total)	7.66	g
Tare Weight	1.05	g
Dry Weight (Total)	6.28	g
Solids, Percent	79.1	%

Sample: FA23189-33 **Analyzed:** 01-APR-15 by LE **Method:** SM19 2540G
ClientID: SR859-16

Wet Weight (Total)	6.37	g
Tare Weight	1.08	g
Dry Weight (Total)	5.25	g
Solids, Percent	78.8	%

Sample: FA23189-34 **Analyzed:** 01-APR-15 by LE **Method:** SM19 2540G
ClientID: SR859-16A

Wet Weight (Total)	6.38	g
Tare Weight	1.03	g
Dry Weight (Total)	5.24	g
Solids, Percent	78.7	%

Sample: FA23189-35 **Analyzed:** 01-APR-15 by LE **Method:** SM19 2540G
ClientID: SR859-17

Wet Weight (Total)	6.71	g
Tare Weight	1.03	g
Dry Weight (Total)	5.46	g
Solids, Percent	78	%

Sample: FA23189-36 **Analyzed:** 01-APR-15 by LE **Method:** SM19 2540G
ClientID: SR859-17A

Wet Weight (Total)	6.1	g
Tare Weight	1.03	g
Dry Weight (Total)	5.03	g
Solids, Percent	78.9	%

Percent Solids Raw Data Summary

Job Number: FA23189
Account: FPMRNYR FPM Remediations
Project: HM-AZ PBR Holloman AFB; Alamogordo, NM

Sample: FA23189-37 **Analyzed:** 01-APR-15 by LE **Method:** SM19 2540G
ClientID: SR859-18

Wet Weight (Total)	6.08	g
Tare Weight	1.01	g
Dry Weight (Total)	4.87	g
Solids, Percent	76.1	%

Sample: FA23189-38 **Analyzed:** 01-APR-15 by LE **Method:** SM19 2540G
ClientID: SR859-18A

Wet Weight (Total)	7.13	g
Tare Weight	1.01	g
Dry Weight (Total)	5.9	g
Solids, Percent	79.9	%

Sample: FA23189-39 **Analyzed:** 01-APR-15 by LE **Method:** SM19 2540G
ClientID: SR859-19

Wet Weight (Total)	6.19	g
Tare Weight	1.03	g
Dry Weight (Total)	5.05	g
Solids, Percent	77.9	%

Sample: FA23189-40 **Analyzed:** 01-APR-15 by LE **Method:** SM19 2540G
ClientID: SR859-19A

Wet Weight (Total)	8.88	g
Tare Weight	1.01	g
Dry Weight (Total)	7.07	g
Solids, Percent	77	%

Sample: FA23189-41 **Analyzed:** 01-APR-15 by LE **Method:** SM19 2540G
ClientID: SR859-20

Wet Weight (Total)	7.11	g
Tare Weight	1.04	g
Dry Weight (Total)	5.83	g
Solids, Percent	78.9	%

Sample: FA23189-42 **Analyzed:** 01-APR-15 by LE **Method:** SM19 2540G
ClientID: SR859-20A

Wet Weight (Total)	7.37	g
Tare Weight	.99	g
Dry Weight (Total)	5.88	g
Solids, Percent	76.6	%

Southeast ACCUTEST LABORATORIES

04/14/15

Technical Report for

FPM Remediations

HM-AZ PBR Holloman AFB; Alamogordo, NM

1029-13-01-H-X0853

Accutest Job Number: FA23258

Sampling Dates: 03/29/15 - 03/30/15

Report to:

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Total number of pages in report: **906**

NELAP ACCREDITED TNI LABORATORY

Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Program and/or state specific certification programs as applicable.

Norm Farmer
Technical Director

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Sample Summary

FPM Remediations

Job No: FA23258

HM-AZ PBR Holloman AFB; Alamogordo, NM
Project No: 1029-13-01-H-X0853

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
FA23258-1	03/29/15	10:25	BETS	04/01/15	SO	Soil	TS862-1
FA23258-2	03/29/15	10:35	BETS	04/01/15	SO	Soil	TS862-1A
FA23258-3	03/29/15	10:45	BETS	04/01/15	SO	Soil	TS862-2
FA23258-4	03/29/15	10:55	BETS	04/01/15	SO	Soil	TS862-2A
FA23258-5	03/29/15	11:15	BETS	04/01/15	SO	Soil	TS862-3
FA23258-5D	03/29/15	11:15	BETS	04/01/15	SO	Soil Dup/MSD	TS862-3
FA23258-5S	03/29/15	11:15	BETS	04/01/15	SO	Soil Matrix Spike	TS862-3
FA23258-6	03/29/15	11:25	BETS	04/01/15	SO	Soil	TS862-3A
FA23258-7	03/29/15	11:55	BETS	04/01/15	SO	Soil	TS862-4
FA23258-8	03/29/15	12:00	BETS	04/01/15	SO	Soil	TS862-104
FA23258-9	03/29/15	12:05	BETS	04/01/15	SO	Soil	TS862-4A
FA23258-10	03/29/15	12:20	BETS	04/01/15	SO	Soil	TS862-5
FA23258-11	03/29/15	12:30	BETS	04/01/15	SO	Soil	TS862-5A

Soil samples reported on a dry weight basis unless otherwise indicated on result page.

Sample Summary
(continued)

FPM Remediations

Job No: FA23258

HM-AZ PBR Holloman AFB; Alamogordo, NM
Project No: 1029-13-01-H-X0853

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
FA23258-12	03/29/15	12:40	BETS	04/01/15	SO	Soil	TS862-6
FA23258-13	03/29/15	12:50	BETS	04/01/15	SO	Soil	TS862-6A
FA23258-14	03/29/15	13:00	BETS	04/01/15	AQ	Equipment Blank	TS862-EB1
FA23258-15	03/30/15	09:50	BETS	04/01/15	SO	Soil	TS862-7
FA23258-16	03/30/15	10:10	BETS	04/01/15	SO	Soil	TS862-7A
FA23258-17	03/30/15	10:20	BETS	04/01/15	SO	Soil	TS862-8
FA23258-18	03/30/15	10:30	BETS	04/01/15	SO	Soil	TS862-8A
FA23258-19	03/30/15	10:40	BETS	04/01/15	SO	Soil	TS862-9
FA23258-20	03/30/15	10:50	BETS	04/01/15	SO	Soil	TS862-9A
FA23258-21	03/30/15	11:00	BETS	04/01/15	SO	Soil	TS862-10
FA23258-22	03/30/15	11:10	BETS	04/01/15	SO	Soil	TS862-11
FA23258-23	03/30/15	09:55	BETS	04/01/15	SO	Soil	TS862-107
FA23258-24	03/30/15	11:20	BETS	04/01/15	SO	Soil	TS862-11A

Soil samples reported on a dry weight basis unless otherwise indicated on result page.

Sample Summary
(continued)

FPM Remediations

Job No: FA23258

HM-AZ PBR Holloman AFB; Alamogordo, NM
Project No: 1029-13-01-H-X0853

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
FA23258-25	03/30/15	11:30	BETS	04/01/15	SO	Soil	TS862-12
FA23258-26	03/30/15	11:40	BETS	04/01/15	SO	Soil	TS862-12A
FA23258-27	03/30/15	12:00	BETS	04/01/15	SO	Soil	TS862-13
FA23258-28	03/30/15	12:15	BETS	04/01/15	SO	Soil	TS862-13A
FA23258-29	03/30/15	12:30	BETS	04/01/15	SO	Soil	TS862-14
FA23258-30	03/30/15	12:45	BETS	04/01/15	SO	Soil	TS862-14A
FA23258-31	03/30/15	13:00	BETS	04/01/15	SO	Soil	TS862-15
FA23258-32	03/30/15	13:15	BETS	04/01/15	SO	Soil	TS862-15A
FA23258-33	03/30/15	13:30	BETS	04/01/15	SO	Soil	TS862-16
FA23258-34	03/30/15	13:45	BETS	04/01/15	SO	Soil	TS862-16A
FA23258-35	03/30/15	14:00	BETS	04/01/15	SO	Soil	TS862-17
FA23258-36	03/30/15	14:15	BETS	04/01/15	SO	Soil	TS862-17A
FA23258-37	03/30/15	14:30	BETS	04/01/15	SO	Soil	TS862-18

Soil samples reported on a dry weight basis unless otherwise indicated on result page.

Accutest Laboratories

Sample Summary
(continued)

FPM Remediations

Job No: FA23258

HM-AZ PBR Holloman AFB; Alamogordo, NM
Project No: 1029-13-01-H-X0853

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
FA23258-38	03/30/15	14:45	BETS	04/01/15	SO	Soil	TS862-18A
FA23258-39	03/30/15	15:00	BETS	04/01/15	SO	Soil	TS862-19
FA23258-40	03/30/15	15:15	BETS	04/01/15	SO	Soil	TS862-19A
FA23258-41	03/30/15	15:30	BETS	04/01/15	SO	Soil	TS862-20
FA23258-42	03/30/15	15:45	BETS	04/01/15	SO	Soil	TS862-20A

Soil samples reported on a dry weight basis unless otherwise indicated on result page.

SAMPLE DELIVERY GROUP CASE NARRATIVE

Client: FPM Remediations **Job No:** FA23258

Site: HM-AZ PBR Holloman AFB; Alamogordo, NM **Report Date** 4/13/2015 8:14:59 PM

42 Samples were collected between 03/29/2015 and 03/30/2015 and were received at Accutest SE on 04/01/2015 properly preserved, at 2.4 Deg. C and intact. These Samples received an Accutest job number of FA23258. A listing of the Laboratory Sample ID, Client Sample ID and dates of collection are presented in the Results Summary Section of this report.

Except as noted below, all method specified calibrations and quality control performance criteria were met for this job. For more information, please refer to QC summary pages.

Extractables by GCMS By Method SW846 8270D

Matrix: SO **Batch ID:** OP55582

All samples were extracted within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) FA23258-33MS, FA23258-33MSD were used as the QC samples indicated.

Matrix: SO **Batch ID:** OP55584

All samples were extracted within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) FA23258-35MS, FA23258-35MSD were used as the QC samples indicated.

Extractables by GCMS By Method SW846 8270D BY SIM

Matrix: AQ **Batch ID:** OP55593

All samples were extracted within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) FA23271-13MS, FA23271-13MSD were used as the QC samples indicated.

RPD(s) for MSD for 1-Methylnaphthalene, 2-Methylnaphthalene, Acenaphthene, Acenaphthylene, Benzo(g,h,i)perylene, Dibenzo(a,h)anthracene, Indeno(1,2,3-cd)pyrene, Naphthalene are outside control limits for sample OP55593-MSD. RPD calculated from Percent Recovery.

OP55593-BS: Target analytes not spiked, see associated MS/MSD for recovery information.

FA23258-14: Associated BS not spiked, recoveries with limits in MS/MSD. Re-extracted for confirmation.

OP55593-MS for 1-Methylnaphthalene: Recovery corrected for double spike.

OP55593-MS for Pyrene: Recovery corrected for double spike.

OP55593-MS for Chrysene: Recovery corrected for double spike.

OP55593-MS for Phenanthrene: Recovery corrected for double spike.

OP55593-MS for 2-Methylnaphthalene: Recovery corrected for double spike.

OP55593-MS for Naphthalene: Recovery corrected for double spike.

OP55593-MS for Indeno(1,2,3-cd)pyrene: Recovery corrected for double spike.

OP55593-MS for Fluorene: Recovery corrected for double spike.

OP55593-MS for Fluoranthene: Recovery corrected for double spike.

OP55593-MS for Dibenzo(a,h)anthracene: Recovery corrected for double spike.

OP55593-MS for Benzo(k)fluoranthene: Recovery corrected for double spike.

OP55593-MS for Benzo(g,h,i)perylene: Recovery corrected for double spike.

OP55593-MS for Benzo(b)fluoranthene: Recovery corrected for double spike.

OP55593-MS for Benzo(a)pyrene: Recovery corrected for double spike.

Extractables by GCMS By Method SW846 8270D BY SIM

Matrix: AQ **Batch ID:** OP55593

OP55593-MS for Anthracene: Recovery corrected for double spike.

OP55593-MS for Acenaphthylene: Recovery corrected for double spike.

OP55593-MS for Acenaphthene: Recovery corrected for double spike.

OP55593-MS for Benzo(a)anthracene: Recovery corrected for double spike.

OP55593-MSD for Benzo(b)fluoranthene: RPD calcuated from Percent Recovery.

OP55593-MSD for Benzo(k)fluoranthene: RPD calcuated from Percent Recovery.

OP55593-MSD for Anthracene: RPD calcuated from Percent Recovery.

OP55593-MSD for Chrysene: RPD calcuated from Percent Recovery.

OP55593-MSD for Fluoranthene: RPD calcuated from Percent Recovery.

OP55593-MSD for Phenanthrene: RPD calcuated from Percent Recovery.

OP55593-MSD for Benzo(a)anthracene: RPD calcuated from Percent Recovery.

OP55593-MSD for Benzo(a)pyrene: RPD calcuated from Percent Recovery.

OP55593-MSD for Pyrene: RPD calcuated from Percent Recovery.

OP55593-MSD for Fluorene: RPD calcuated from Percent Recovery.

Matrix: AQ **Batch ID:** OP55650

FA23258-14: Confirmation run.

Metals By Method SW846 6010C

Matrix: AQ **Batch ID:** MP28764

All samples were digested within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) FA23126-1DUP, FA23126-1MS, FA23126-1MSD, FA23126-1PS, FA23126-1SDL were used as the QC samples for metals.

RPD(s) for Duplicate for Antimony, Lead are outside control limits for sample MP28764-D1. RPD acceptable due to low duplicate and sample concentrations.

RPD(s) for Serial Dilution for Antimony, Arsenic, Lead, Zinc are outside control limits for sample MP28764-SD1. Percent difference acceptable due to low initial sample concentration (< 50 times IDL).

Matrix: SO **Batch ID:** MP28752

All samples were digested within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) FA23258-5DUP, FA23258-5MS, FA23258-5MSD, FA23258-5PS, FA23258-5SDL were used as the QC samples for metals.

Matrix Spike / Matrix Spike Duplicate Recovery(s) for Antimony are outside control limits. Probable cause is due to matrix interference. For method performance in a clean matrix, refer to Blank Spike.

RPD(s) for Duplicate for Arsenic are outside control limits for sample MP28752-D1. RPD acceptable due to low duplicate and sample concentrations.

RPD(s) for Serial Dilution for Arsenic, Lead, Zinc are outside control limits for sample MP28752-SD1. Percent difference acceptable due to low initial sample concentration (< 50 times IDL).

FA23258-1 for Antimony: Sample dilution required due to difficult matrix.

FA23258-1 for Arsenic: Sample dilution required due to difficult matrix.

FA23258-1 for Copper: Sample dilution required due to difficult matrix.

FA23258-1 for Lead: Sample dilution required due to difficult matrix.

FA23258-1 for Zinc: Sample dilution required due to difficult matrix.

FA23258-3 for Antimony: Sample dilution required due to difficult matrix.

FA23258-3 for Copper: Sample dilution required due to difficult matrix.

FA23258-3 for Arsenic: Sample dilution required due to difficult matrix.

FA23258-3 for Lead: Sample dilution required due to difficult matrix.

FA23258-3 for Zinc: Sample dilution required due to difficult matrix.

Metals By Method SW846 6010C

Matrix: SO **Batch ID:** MP28752

FA23258-5 for Antimony: Sample dilution required due to difficult matrix.
FA23258-5 for Arsenic: Sample dilution required due to difficult matrix.
FA23258-5 for Copper: Sample dilution required due to difficult matrix.
FA23258-5 for Lead: Sample dilution required due to difficult matrix.
FA23258-5 for Zinc: Sample dilution required due to difficult matrix.
FA23258-7 for Antimony: Sample dilution required due to difficult matrix.
FA23258-7 for Arsenic: Sample dilution required due to difficult matrix.
FA23258-7 for Copper: Sample dilution required due to difficult matrix.
FA23258-7 for Lead: Sample dilution required due to difficult matrix.
FA23258-7 for Zinc: Sample dilution required due to difficult matrix.
FA23258-8 for Antimony: Sample dilution required due to difficult matrix.
FA23258-8 for Arsenic: Sample dilution required due to difficult matrix.
FA23258-8 for Copper: Sample dilution required due to difficult matrix.
FA23258-8 for Lead: Sample dilution required due to difficult matrix.
FA23258-8 for Zinc: Sample dilution required due to difficult matrix.
FA23258-10 for Lead: Sample dilution required due to difficult matrix.
FA23258-10 for Copper: Sample dilution required due to difficult matrix.
FA23258-10 for Zinc: Sample dilution required due to difficult matrix.
FA23258-10 for Arsenic: Sample dilution required due to difficult matrix.
FA23258-10 for Antimony: Sample dilution required due to difficult matrix.
FA23258-12 for Antimony: Sample dilution required due to difficult matrix.
FA23258-12 for Arsenic: Sample dilution required due to difficult matrix.
FA23258-12 for Copper: Sample dilution required due to difficult matrix.
FA23258-12 for Lead: Sample dilution required due to difficult matrix.
FA23258-12 for Zinc: Sample dilution required due to difficult matrix.
FA23258-15 for Antimony: Sample dilution required due to difficult matrix.
FA23258-15 for Arsenic: Sample dilution required due to difficult matrix.
FA23258-15 for Copper: Sample dilution required due to difficult matrix.
FA23258-15 for Lead: Sample dilution required due to difficult matrix.
FA23258-15 for Zinc: Sample dilution required due to difficult matrix.
FA23258-17 for Copper: Sample dilution required due to difficult matrix.
FA23258-17 for Arsenic: Sample dilution required due to difficult matrix.
FA23258-17 for Lead: Sample dilution required due to difficult matrix.
FA23258-17 for Antimony: Sample dilution required due to difficult matrix.
FA23258-17 for Zinc: Sample dilution required due to difficult matrix.
FA23258-19 for Antimony: Sample dilution required due to difficult matrix.
FA23258-19 for Lead: Sample dilution required due to difficult matrix.
FA23258-19 for Copper: Sample dilution required due to difficult matrix.
FA23258-19 for Zinc: Sample dilution required due to difficult matrix.
FA23258-19 for Arsenic: Sample dilution required due to difficult matrix.
FA23258-21 for Antimony: Sample dilution required due to difficult matrix.
FA23258-21 for Arsenic: Sample dilution required due to difficult matrix.
FA23258-21 for Lead: Sample dilution required due to difficult matrix.
FA23258-21 for Copper: Sample dilution required due to difficult matrix.
FA23258-21 for Zinc: Sample dilution required due to difficult matrix.
FA23258-22 for Antimony: Sample dilution required due to difficult matrix.
FA23258-22 for Arsenic: Sample dilution required due to difficult matrix.
FA23258-22 for Copper: Sample dilution required due to difficult matrix.

Metals By Method SW846 6010C

Matrix: SO **Batch ID:** MP28752

FA23258-22 for Zinc: Sample dilution required due to difficult matrix.

FA23258-22 for Lead: Sample dilution required due to difficult matrix.

FA23258-23 for Antimony: Sample dilution required due to difficult matrix.

FA23258-23 for Arsenic: Sample dilution required due to difficult matrix.

FA23258-23 for Copper: Sample dilution required due to difficult matrix.

FA23258-23 for Zinc: Sample dilution required due to difficult matrix.

FA23258-23 for Lead: Sample dilution required due to difficult matrix.

FA23258-25 for Arsenic: Sample dilution required due to difficult matrix.

FA23258-25 for Antimony: Sample dilution required due to difficult matrix.

FA23258-25 for Copper: Sample dilution required due to difficult matrix.

FA23258-25 for Lead: Sample dilution required due to difficult matrix.

FA23258-25 for Zinc: Sample dilution required due to difficult matrix.

FA23258-27 for Copper: Sample dilution required due to difficult matrix.

FA23258-27 for Arsenic: Sample dilution required due to difficult matrix.

FA23258-27 for Antimony: Sample dilution required due to difficult matrix.

FA23258-27 for Lead: Sample dilution required due to difficult matrix.

FA23258-27 for Zinc: Sample dilution required due to difficult matrix.

FA23258-29 for Antimony: Sample dilution required due to difficult matrix.

FA23258-29 for Copper: Sample dilution required due to difficult matrix.

FA23258-29 for Arsenic: Sample dilution required due to difficult matrix.

FA23258-29 for Lead: Sample dilution required due to difficult matrix.

FA23258-29 for Zinc: Sample dilution required due to difficult matrix.

FA23258-31 for Arsenic: Sample dilution required due to difficult matrix.

FA23258-31 for Antimony: Sample dilution required due to difficult matrix.

FA23258-31 for Copper: Sample dilution required due to difficult matrix.

FA23258-31 for Lead: Sample dilution required due to difficult matrix.

FA23258-31 for Zinc: Sample dilution required due to difficult matrix.

FA23258-33 for Antimony: Sample dilution required due to difficult matrix.

FA23258-33 for Arsenic: Sample dilution required due to difficult matrix.

FA23258-33 for Copper: Sample dilution required due to difficult matrix.

FA23258-33 for Lead: Sample dilution required due to difficult matrix.

FA23258-33 for Zinc: Sample dilution required due to difficult matrix.

Matrix: SO **Batch ID:** MP28755

All samples were digested within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) FA23275-8DUP, FA23275-8MS, FA23275-8MSD, FA23275-8PS, FA23275-8SDL were used as the QC samples for metals.

Matrix Spike / Matrix Spike Duplicate Recovery(s) for Antimony are outside control limits. Probable cause is due to matrix interference. For method performance in a clean matrix, refer to Blank Spike.

RPD(s) for Duplicate for Zinc are outside control limits for sample MP28755-D1. High RPD due to possible sample non-homogeneity.

RPD(s) for Serial Dilution for Arsenic are outside control limits for sample MP28755-SD1. Percent difference acceptable due to low initial sample concentration (< 50 times IDL).

MP28755-SD1 for Copper: Serial dilution indicates possible matrix interference.

MP28755-SD1 for Zinc: Serial dilution indicates possible matrix interference.

FA23258-35 for Arsenic: Sample dilution required due to difficult matrix.

FA23258-35 for Antimony: Sample dilution required due to difficult matrix.

Metals By Method SW846 6010C

Matrix: SO **Batch ID:** MP28755

FA23258-35 for Copper: Sample dilution required due to difficult matrix.
FA23258-35 for Lead: Sample dilution required due to difficult matrix.
FA23258-35 for Zinc: Sample dilution required due to difficult matrix.
FA23258-37 for Antimony: Sample dilution required due to difficult matrix.
FA23258-37 for Arsenic: Sample dilution required due to difficult matrix.
FA23258-37 for Copper: Sample dilution required due to difficult matrix.
FA23258-37 for Lead: Sample dilution required due to difficult matrix.
FA23258-37 for Zinc: Sample dilution required due to difficult matrix.
FA23258-39 for Arsenic: Sample dilution required due to difficult matrix.
FA23258-39 for Antimony: Sample dilution required due to difficult matrix.
FA23258-39 for Copper: Sample dilution required due to difficult matrix.
FA23258-39 for Lead: Sample dilution required due to difficult matrix.
FA23258-39 for Zinc: Sample dilution required due to difficult matrix.
FA23258-41 for Arsenic: Sample dilution required due to difficult matrix.
FA23258-41 for Copper: Sample dilution required due to difficult matrix.
FA23258-41 for Lead: Sample dilution required due to difficult matrix.
FA23258-41 for Zinc: Sample dilution required due to difficult matrix.
FA23258-41 for Antimony: Sample dilution required due to difficult matrix.

Wet Chemistry By Method SM19 2540G

Matrix: SO **Batch ID:** GN65779

Sample(s) FA23258-1DUP, FA23258-2DUP were used as the QC samples for Solids, Percent.

Matrix: SO **Batch ID:** GN65781

Sample(s) FA23258-20DUP, FA23258-21DUP were used as the QC samples for Solids, Percent.

Matrix: SO **Batch ID:** GN65782

Sample(s) FA23258-39DUP was used as the QC samples for Solids, Percent.

Accutest Laboratories Southeast (ALSE) certifies that this report meets the project requirements for analytical data produced for the samples as received at ALSE and as stated on the COC. ALSE certifies that the data meets the Data Quality Objectives for precision, accuracy and completeness as specified in the ALSE Quality Manual except as noted above. This report is to be used in its entirety. ALSE is not responsible for any assumptions of data quality if partial data packages are used

Narrative prepared by:

Date: April 13, 2015

Lovelie Metzgar, QA Officer (signature on file)

Manual Integration Summary

Lab Sample ID	Analysis Type	File ID	Manual Integrations
OP55582-BS	MSSEMI	L0681759.D	Caprolactam
SL3629-IC3629	MSSEMI	L0681703.D	Benzoic Acid
SL3629-ICC3629	MSSEMI	L0681700.D	Benzoic Acid
SL3631-CC3629	MSSEMI	L0681730.D	Benzoic Acid
SL3632-CC3629	MSSEMI	L0681758.D	Benzoic Acid
ST809-IC809	MSSEMI	T017698.D	Pentachlorophenol
ST809-IC809	MSSEMI	T017704.D	Benzo(k)fluoranthene
ST813-IC813	MSSEMI	T017842.D	Pentachlorophenol
SX1826-IC1826	MSSEMI	X039249.D	Benzo(k)fluoranthene, Benzoic Acid
SX1826-IC1826	MSSEMI	X039250.D	Benzoic Acid
SX1826-IC1826	MSSEMI	X039251.D	Benzoic Acid
SX1826-IC1826	MSSEMI	X039253.D	Benzoic Acid, Caprolactam
SX1826-IC1826	MSSEMI	X039254.D	Benzoic Acid, Caprolactam
SX1826-IC1826	MSSEMI	X039255.D	Benzoic Acid, Caprolactam
SX1826-ICC1826	MSSEMI	X039252.D	Benzoic Acid
SX1826-ICV1826	MSSEMI	X039256.D	Caprolactam
SX1832-CC1826	MSSEMI	X039417.D	Benzoic Acid
SX1833-CC1826	MSSEMI	X039441.D	Benzoic Acid, Caprolactam

18 Manual Integrations were found for FA23258

Summary of Hits

Job Number: FA23258
Account: FPM Remediations
Project: HM-AZ PBR Holloman AFB; Alamogordo, NM
Collected: 03/29/15 thru 03/30/15

Lab Sample ID Analyte	Client Sample ID	Result/ Qual	LOQ	LOD	Units	Method
FA23258-1	**TS862-1**					
Antimony [a]		1.4 J	12	2.9	mg/kg	SW846 6010C
Arsenic [a]		1.7 J	5.8	2.9	mg/kg	SW846 6010C
Copper [a]		2.5 J	15	1.2	mg/kg	SW846 6010C
Lead [a]		1.7 J	12	2.3	mg/kg	SW846 6010C
Zinc [a]		8.8 J	12	2.9	mg/kg	SW846 6010C
FA23258-2	**TS862-1A**					
No hits reported in this sample.						
FA23258-3	**TS862-2**					
Antimony [a]		0.98 J	11	2.8	mg/kg	SW846 6010C
Copper [a]		2.0 J	14	1.1	mg/kg	SW846 6010C
Lead [a]		0.80 J	11	2.2	mg/kg	SW846 6010C
Zinc [a]		5.0 J	11	2.8	mg/kg	SW846 6010C
FA23258-4	**TS862-2A**					
No hits reported in this sample.						
FA23258-5	**TS862-3**					
Copper [a]		3.2 J	12	0.98	mg/kg	SW846 6010C
Lead [a]		2.6 J	9.8	2.0	mg/kg	SW846 6010C
Zinc [a]		11.3	9.8	2.5	mg/kg	SW846 6010C
FA23258-6	**TS862-3A**					
No hits reported in this sample.						
FA23258-7	**TS862-4**					
Antimony [a]		1.9 J	9.5	2.4	mg/kg	SW846 6010C
Arsenic [a]		0.95 J	4.7	2.4	mg/kg	SW846 6010C
Copper [a]		3.0 J	12	0.95	mg/kg	SW846 6010C
Lead [a]		0.86 J	9.5	1.9	mg/kg	SW846 6010C
Zinc [a]		7.0 J	9.5	2.4	mg/kg	SW846 6010C
FA23258-8	**TS862-104**					
Antimony [a]		0.97 J	10	2.6	mg/kg	SW846 6010C
Copper [a]		3.1 J	13	1.0	mg/kg	SW846 6010C

Summary of Hits

Job Number: FA23258
Account: FPM Remediations
Project: HM-AZ PBR Holloman AFB; Alamogordo, NM
Collected: 03/29/15 thru 03/30/15

Lab Sample ID Analyte	Client Sample ID	Result/ Qual	LOQ	LOD	Units	Method
Lead [a]		0.99 J	10	2.0	mg/kg	SW846 6010C
Zinc [a]		8.0 J	10	2.6	mg/kg	SW846 6010C
FA23258-9	**TS862-4A**					
No hits reported in this sample.						
FA23258-10	**TS862-5**					
Antimony [a]		1.9 J	9.6	2.4	mg/kg	SW846 6010C
Copper [a]		2.7 J	12	0.96	mg/kg	SW846 6010C
Lead [a]		1.4 J	9.6	1.9	mg/kg	SW846 6010C
Zinc [a]		7.4 J	9.6	2.4	mg/kg	SW846 6010C
FA23258-11	**TS862-5A**					
No hits reported in this sample.						
FA23258-12	**TS862-6**					
Antimony [a]		1.1 J	8.8	2.2	mg/kg	SW846 6010C
Arsenic [a]		1.4 J	4.4	2.2	mg/kg	SW846 6010C
Copper [a]		3.6 J	11	0.88	mg/kg	SW846 6010C
Lead [a]		2.7 J	8.8	1.8	mg/kg	SW846 6010C
Zinc [a]		14.2	8.8	2.2	mg/kg	SW846 6010C
FA23258-13	**TS862-6A**					
No hits reported in this sample.						
FA23258-14	**TS862-EB1**					
Benzo(b)fluoranthene [b]		0.043 J	0.17	0.043	ug/l	SW846 8270D BY SIM
Benzo(g,h,i)perylene [b]		0.041 J	0.17	0.043	ug/l	SW846 8270D BY SIM
Benzo(k)fluoranthene [b]		0.036 J	0.17	0.043	ug/l	SW846 8270D BY SIM
Indeno(1,2,3-cd)pyrene [b]		0.038 J	0.17	0.043	ug/l	SW846 8270D BY SIM
Antimony		1.8 J	6.0	5.0	ug/l	SW846 6010C
Copper		6.0 J	25	2.0	ug/l	SW846 6010C
Zinc		8.8 J	20	5.0	ug/l	SW846 6010C
FA23258-15	**TS862-7**					
Arsenic [a]		1.4 J	4.9	2.5	mg/kg	SW846 6010C
Copper [a]		3.1 J	12	0.98	mg/kg	SW846 6010C
Lead [a]		1.6 J	9.8	2.0	mg/kg	SW846 6010C

Summary of Hits

Job Number: FA23258
Account: FPM Remediations
Project: HM-AZ PBR Holloman AFB; Alamogordo, NM
Collected: 03/29/15 thru 03/30/15

Lab Sample ID Analyte	Client Sample ID	Result/ Qual	LOQ	LOD	Units	Method
Zinc [a]		11.9	9.8	2.5	mg/kg	SW846 6010C
FA23258-16	**TS862-7A**					
No hits reported in this sample.						
FA23258-17	**TS862-8**					
Antimony [a]		0.84 J	11	2.7	mg/kg	SW846 6010C
Arsenic [a]		1.3 J	5.4	2.7	mg/kg	SW846 6010C
Copper [a]		3.8 J	13	1.1	mg/kg	SW846 6010C
Lead [a]		2.2 J	11	2.2	mg/kg	SW846 6010C
Zinc [a]		14.3	11	2.7	mg/kg	SW846 6010C
FA23258-18	**TS862-8A**					
No hits reported in this sample.						
FA23258-19	**TS862-9**					
Antimony [a]		0.98 J	12	2.9	mg/kg	SW846 6010C
Copper [a]		3.4 J	15	1.2	mg/kg	SW846 6010C
Lead [a]		1.9 J	12	2.3	mg/kg	SW846 6010C
Zinc [a]		10.6 J	12	2.9	mg/kg	SW846 6010C
FA23258-20	**TS862-9A**					
No hits reported in this sample.						
FA23258-21	**TS862-10**					
Antimony [a]		1.1 J	9.4	2.3	mg/kg	SW846 6010C
Arsenic [a]		1.3 J	4.7	2.3	mg/kg	SW846 6010C
Copper [a]		3.7 J	12	0.94	mg/kg	SW846 6010C
Lead [a]		2.4 J	9.4	1.9	mg/kg	SW846 6010C
Zinc [a]		14.8	9.4	2.3	mg/kg	SW846 6010C
FA23258-22	**TS862-11**					
Arsenic [a]		1.2 J	5.5	2.7	mg/kg	SW846 6010C
Copper [a]		4.5 J	14	1.1	mg/kg	SW846 6010C
Lead [a]		2.9 J	11	2.2	mg/kg	SW846 6010C
Zinc [a]		12.8	11	2.7	mg/kg	SW846 6010C

Summary of Hits

Job Number: FA23258
Account: FPM Remediations
Project: HM-AZ PBR Holloman AFB; Alamogordo, NM
Collected: 03/29/15 thru 03/30/15

Lab Sample ID Analyte	Client Sample ID	Result/ Qual	LOQ	LOD	Units	Method
FA23258-23	**TS862-107**					
Antimony [a]		1.1 J	9.4	2.4	mg/kg	SW846 6010C
Arsenic [a]		1.7 J	4.7	2.4	mg/kg	SW846 6010C
Copper [a]		4.2 J	12	0.94	mg/kg	SW846 6010C
Lead [a]		3.3 J	9.4	1.9	mg/kg	SW846 6010C
Zinc [a]		14.8	9.4	2.4	mg/kg	SW846 6010C
FA23258-24	**TS862-11A**					
No hits reported in this sample.						
FA23258-25	**TS862-12**					
Antimony [a]		1.2 J	10	2.6	mg/kg	SW846 6010C
Arsenic [a]		1.6 J	5.2	2.6	mg/kg	SW846 6010C
Copper [a]		4.2 J	13	1.0	mg/kg	SW846 6010C
Lead [a]		3.1 J	10	2.1	mg/kg	SW846 6010C
Zinc [a]		13.5	10	2.6	mg/kg	SW846 6010C
FA23258-26	**TS862-12A**					
No hits reported in this sample.						
FA23258-27	**TS862-13**					
Antimony [a]		1.2 J	11	2.6	mg/kg	SW846 6010C
Arsenic [a]		1.5 J	5.3	2.6	mg/kg	SW846 6010C
Copper [a]		3.6 J	13	1.1	mg/kg	SW846 6010C
Lead [a]		2.3 J	11	2.1	mg/kg	SW846 6010C
Zinc [a]		12.0	11	2.6	mg/kg	SW846 6010C
FA23258-28	**TS862-13A**					
No hits reported in this sample.						
FA23258-29	**TS862-14**					
Antimony [a]		1.3 J	8.8	2.2	mg/kg	SW846 6010C
Arsenic [a]		2.3 J	4.4	2.2	mg/kg	SW846 6010C
Copper [a]		4.6 J	11	0.88	mg/kg	SW846 6010C
Lead [a]		3.0 J	8.8	1.8	mg/kg	SW846 6010C
Zinc [a]		14.2	8.8	2.2	mg/kg	SW846 6010C

Summary of Hits

Job Number: FA23258
Account: FPM Remediations
Project: HM-AZ PBR Holloman AFB; Alamogordo, NM
Collected: 03/29/15 thru 03/30/15

Lab Sample ID Analyte	Client Sample ID	Result/ Qual	LOQ	LOD	Units	Method
FA23258-30	**TS862-14A**					
No hits reported in this sample.						
FA23258-31	**TS862-15**					
Fluoranthene		25.7 J	200	41	ug/kg	SW846 8270D
Pyrene		23.6 J	200	41	ug/kg	SW846 8270D
Antimony [a]		1.6 J	11	2.7	mg/kg	SW846 6010C
Arsenic [a]		2.2 J	5.5	2.7	mg/kg	SW846 6010C
Copper [a]		4.0 J	14	1.1	mg/kg	SW846 6010C
Lead [a]		2.9 J	11	2.2	mg/kg	SW846 6010C
Zinc [a]		12.7	11	2.7	mg/kg	SW846 6010C
FA23258-32	**TS862-15A**					
No hits reported in this sample.						
FA23258-33	**TS862-16**					
Antimony [a]		0.88 J	12	3.0	mg/kg	SW846 6010C
Copper [a]		1.9 J	15	1.2	mg/kg	SW846 6010C
Lead [a]		1.2 J	12	2.4	mg/kg	SW846 6010C
Zinc [a]		4.0 J	12	3.0	mg/kg	SW846 6010C
FA23258-34	**TS862-16A**					
No hits reported in this sample.						
FA23258-35	**TS862-17**					
Copper [a]		1.2 J	10	0.82	mg/kg	SW846 6010C
Zinc [a]		2.2 J	8.2	2.0	mg/kg	SW846 6010C
FA23258-36	**TS862-17A**					
No hits reported in this sample.						
FA23258-37	**TS862-18**					
Fluoranthene		21.4 J	200	40	ug/kg	SW846 8270D
Pyrene		24.1 J	200	40	ug/kg	SW846 8270D
Arsenic [a]		1.0 J	4.6	2.3	mg/kg	SW846 6010C
Copper [a]		3.7 J	12	0.93	mg/kg	SW846 6010C
Lead [a]		0.73 J	9.3	1.9	mg/kg	SW846 6010C

Summary of Hits

Job Number: FA23258
Account: FPM Remediations
Project: HM-AZ PBR Holloman AFB; Alamogordo, NM
Collected: 03/29/15 thru 03/30/15

Lab Sample ID Analyte	Client Sample ID	Result/ Qual	LOQ	LOD	Units	Method
Zinc [a]		10.6	9.3	2.3	mg/kg	SW846 6010C
FA23258-38	**TS862-18A**					
No hits reported in this sample.						
FA23258-39	**TS862-19**					
Arsenic [a]		1.1 J	4.7	2.4	mg/kg	SW846 6010C
Copper [a]		3.4 J	12	0.95	mg/kg	SW846 6010C
Zinc [a]		10.5	9.5	2.4	mg/kg	SW846 6010C
FA23258-40	**TS862-19A**					
No hits reported in this sample.						
FA23258-41	**TS862-20**					
Arsenic [a]		1.5 J	5.8	2.9	mg/kg	SW846 6010C
Copper [a]		4.5 J	14	1.2	mg/kg	SW846 6010C
Lead [a]		1.8 J	12	2.3	mg/kg	SW846 6010C
Zinc [a]		17.8	12	2.9	mg/kg	SW846 6010C
FA23258-42	**TS862-20A**					
No hits reported in this sample.						

(a) Sample dilution required due to difficult matrix.
(b) Associated BS not spiked, recoveries with limits in MS/MSD. Re-extracted for confirmation.

Southeast ACCUTEST LABORATORIES

Sample Results

Report of Analysis

Accutest Laboratories

Report of Analysis

Client Sample ID:	TS862-1		
Lab Sample ID:	FA23258-1	**Date Sampled:**	03/29/15
Matrix:	SO - Soil	**Date Received:**	04/01/15
Method:	SW846 8270D SW846 3550C	**Percent Solids:**	81.7
Project:	HM-AZ PBR Holloman AFB; Alamogordo, NM		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	L0681750.D	1	04/06/15	MV	04/03/15	OP55582	SL3631
Run #2							

	Initial Weight	Final Volume
Run #1	30.2 g	1.0 ml
Run #2		

BN PAH List

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
83-32-9	Acenaphthene	41 U	200	41	20	ug/kg	
208-96-8	Acenaphthylene	41 U	200	41	20	ug/kg	
120-12-7	Anthracene	41 U	200	41	20	ug/kg	
56-55-3	Benzo(a)anthracene	41 U	200	41	20	ug/kg	
50-32-8	Benzo(a)pyrene	41 U	200	41	20	ug/kg	
205-99-2	Benzo(b)fluoranthene	41 U	200	41	20	ug/kg	
191-24-2	Benzo(g,h,i)perylene	41 U	200	41	20	ug/kg	
207-08-9	Benzo(k)fluoranthene	41 U	200	41	20	ug/kg	
218-01-9	Chrysene	41 U	200	41	20	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	41 U	200	41	20	ug/kg	
206-44-0	Fluoranthene	41 U	200	41	20	ug/kg	
86-73-7	Fluorene	41 U	200	41	20	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	41 U	200	41	20	ug/kg	
90-12-0	1-Methylnaphthalene	41 U	200	41	20	ug/kg	
91-57-6	2-Methylnaphthalene	41 U	200	41	20	ug/kg	
91-20-3	Naphthalene	41 U	200	41	20	ug/kg	
85-01-8	Phenanthrene	41 U	200	41	20	ug/kg	
129-00-0	Pyrene	41 U	200	41	20	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	70%		40-105%
321-60-8	2-Fluorobiphenyl	74%		43-107%
1718-51-0	Terphenyl-d14	82%		45-119%

U = Not detected LOD = Limit of Detection J = Indicates an estimated value
LOQ = Limit of Quantitation DL = Detection Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	TS862-1		
Lab Sample ID:	FA23258-1	**Date Sampled:**	03/29/15
Matrix:	SO - Soil	**Date Received:**	04/01/15
		Percent Solids:	81.7
Project:	HM-AZ PBR Holloman AFB; Alamogordo, NM		

Metals Analysis

Analyte	Result	LOQ	LOD	DL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Antimony [a]	1.4 J	12	2.9	0.76	mg/kg	10	04/03/15	04/03/15	LM	SW846 6010C [1]	SW846 3050B [2]
Arsenic [a]	1.7 J	5.8	2.9	1.2	mg/kg	10	04/03/15	04/03/15	LM	SW846 6010C [1]	SW846 3050B [2]
Copper [a]	2.5 J	15	1.2	0.58	mg/kg	10	04/03/15	04/03/15	LM	SW846 6010C [1]	SW846 3050B [2]
Lead [a]	1.7 J	12	2.3	0.58	mg/kg	10	04/03/15	04/03/15	LM	SW846 6010C [1]	SW846 3050B [2]
Zinc [a]	8.8 J	12	2.9	1.7	mg/kg	10	04/03/15	04/03/15	LM	SW846 6010C [1]	SW846 3050B [2]

(1) Instrument QC Batch: MA12317
(2) Prep QC Batch: MP28752

(a) Sample dilution required due to difficult matrix.

LOQ = Limit of Quantitation DL = Detection Limit U = Indicates a result < LOD
LOD = Limit of Detection J = Indicates a result > = DL (MDL) but < LOQ

Report of Analysis

Client Sample ID:	TS862-1A		
Lab Sample ID:	FA23258-2	**Date Sampled:**	03/29/15
Matrix:	SO - Soil	**Date Received:**	04/01/15
		Percent Solids:	83.6
Project:	HM-AZ PBR Holloman AFB; Alamogordo, NM		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Solids, Percent	83.6		%	1	04/02/15 16:34	JC	SM19 2540G

RL = Reporting Limit

Accutest Laboratories

Report of Analysis

Client Sample ID:	TS862-2		
Lab Sample ID:	FA23258-3	**Date Sampled:**	03/29/15
Matrix:	SO - Soil	**Date Received:**	04/01/15
Method:	SW846 8270D SW846 3550C	**Percent Solids:**	81.9
Project:	HM-AZ PBR Holloman AFB; Alamogordo, NM		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	L0681751.D	1	04/06/15	MV	04/03/15	OP55582	SL3631
Run #2							

	Initial Weight	Final Volume
Run #1	29.8 g	1.0 ml
Run #2		

BN PAH List

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
83-32-9	Acenaphthene	41 U	200	41	20	ug/kg	
208-96-8	Acenaphthylene	41 U	200	41	20	ug/kg	
120-12-7	Anthracene	41 U	200	41	20	ug/kg	
56-55-3	Benzo(a)anthracene	41 U	200	41	20	ug/kg	
50-32-8	Benzo(a)pyrene	41 U	200	41	20	ug/kg	
205-99-2	Benzo(b)fluoranthene	41 U	200	41	20	ug/kg	
191-24-2	Benzo(g,h,i)perylene	41 U	200	41	20	ug/kg	
207-08-9	Benzo(k)fluoranthene	41 U	200	41	20	ug/kg	
218-01-9	Chrysene	41 U	200	41	20	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	41 U	200	41	20	ug/kg	
206-44-0	Fluoranthene	41 U	200	41	20	ug/kg	
86-73-7	Fluorene	41 U	200	41	20	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	41 U	200	41	20	ug/kg	
90-12-0	1-Methylnaphthalene	41 U	200	41	20	ug/kg	
91-57-6	2-Methylnaphthalene	41 U	200	41	20	ug/kg	
91-20-3	Naphthalene	41 U	200	41	20	ug/kg	
85-01-8	Phenanthrene	41 U	200	41	20	ug/kg	
129-00-0	Pyrene	41 U	200	41	20	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	66%		40-105%
321-60-8	2-Fluorobiphenyl	71%		43-107%
1718-51-0	Terphenyl-d14	81%		45-119%

U = Not detected LOD = Limit of Detection J = Indicates an estimated value
LOQ = Limit of Quantitation DL = Detection Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	TS862-2		
Lab Sample ID:	FA23258-3	**Date Sampled:**	03/29/15
Matrix:	SO - Soil	**Date Received:**	04/01/15
		Percent Solids:	81.9
Project:	HM-AZ PBR Holloman AFB; Alamogordo, NM		

Metals Analysis

Analyte	Result	LOQ	LOD	DL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Antimony [a]	0.98 J	11	2.8	0.72	mg/kg	10	04/03/15	04/03/15	LM	SW846 6010C [1]	SW846 3050B [2]
Arsenic [a]	2.8 U	5.6	2.8	1.1	mg/kg	10	04/03/15	04/03/15	LM	SW846 6010C [1]	SW846 3050B [2]
Copper [a]	2.0 J	14	1.1	0.56	mg/kg	10	04/03/15	04/03/15	LM	SW846 6010C [1]	SW846 3050B [2]
Lead [a]	0.80 J	11	2.2	0.56	mg/kg	10	04/03/15	04/03/15	LM	SW846 6010C [1]	SW846 3050B [2]
Zinc [a]	5.0 J	11	2.8	1.7	mg/kg	10	04/03/15	04/03/15	LM	SW846 6010C [1]	SW846 3050B [2]

(1) Instrument QC Batch: MA12317
(2) Prep QC Batch: MP28752

(a) Sample dilution required due to difficult matrix.

LOQ = Limit of Quantitation DL = Detection Limit U = Indicates a result < LOD
LOD = Limit of Detection J = Indicates a result > = DL (MDL) but < LOQ

Report of Analysis

Client Sample ID:	TS862-2A		
Lab Sample ID:	FA23258-4	**Date Sampled:**	03/29/15
Matrix:	SO - Soil	**Date Received:**	04/01/15
		Percent Solids:	81.3
Project:	HM-AZ PBR Holloman AFB; Alamogordo, NM		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Solids, Percent	81.3		%	1	04/02/15 16:34	JC	SM19 2540G

RL = Reporting Limit

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Report of Analysis

Client Sample ID:	TS862-3		
Lab Sample ID:	FA23258-5	**Date Sampled:**	03/29/15
Matrix:	SO - Soil	**Date Received:**	04/01/15
Method:	SW846 8270D SW846 3550C	**Percent Solids:**	82.9
Project:	HM-AZ PBR Holloman AFB; Alamogordo, NM		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	L0681752.D	1	04/06/15	MV	04/03/15	OP55582	SL3631
Run #2							

	Initial Weight	Final Volume
Run #1	29.8 g	1.0 ml
Run #2		

BN PAH List

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
83-32-9	Acenaphthene	40 U	200	40	20	ug/kg	
208-96-8	Acenaphthylene	40 U	200	40	20	ug/kg	
120-12-7	Anthracene	40 U	200	40	20	ug/kg	
56-55-3	Benzo(a)anthracene	40 U	200	40	20	ug/kg	
50-32-8	Benzo(a)pyrene	40 U	200	40	20	ug/kg	
205-99-2	Benzo(b)fluoranthene	40 U	200	40	20	ug/kg	
191-24-2	Benzo(g,h,i)perylene	40 U	200	40	20	ug/kg	
207-08-9	Benzo(k)fluoranthene	40 U	200	40	20	ug/kg	
218-01-9	Chrysene	40 U	200	40	20	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	40 U	200	40	20	ug/kg	
206-44-0	Fluoranthene	40 U	200	40	20	ug/kg	
86-73-7	Fluorene	40 U	200	40	20	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	40 U	200	40	20	ug/kg	
90-12-0	1-Methylnaphthalene	40 U	200	40	20	ug/kg	
91-57-6	2-Methylnaphthalene	40 U	200	40	20	ug/kg	
91-20-3	Naphthalene	40 U	200	40	20	ug/kg	
85-01-8	Phenanthrene	40 U	200	40	20	ug/kg	
129-00-0	Pyrene	40 U	200	40	20	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	75%		40-105%
321-60-8	2-Fluorobiphenyl	76%		43-107%
1718-51-0	Terphenyl-d14	86%		45-119%

U = Not detected LOD = Limit of Detection J = Indicates an estimated value
LOQ = Limit of Quantitation DL = Detection Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	TS862-3		
Lab Sample ID:	FA23258-5	**Date Sampled:**	03/29/15
Matrix:	SO - Soil	**Date Received:**	04/01/15
		Percent Solids:	82.9
Project:	HM-AZ PBR Holloman AFB; Alamogordo, NM		

Metals Analysis

Analyte	Result	LOQ	LOD	DL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Antimony [a]	2.5 U	9.8	2.5	0.64	mg/kg	10	04/03/15	04/06/15	LM	SW846 6010C [1]	SW846 3050B [2]
Arsenic [a]	2.5 U	4.9	2.5	0.98	mg/kg	10	04/03/15	04/06/15	LM	SW846 6010C [1]	SW846 3050B [2]
Copper [a]	3.2 J	12	0.98	0.49	mg/kg	10	04/03/15	04/06/15	LM	SW846 6010C [1]	SW846 3050B [2]
Lead [a]	2.6 J	9.8	2.0	0.49	mg/kg	10	04/03/15	04/06/15	LM	SW846 6010C [1]	SW846 3050B [2]
Zinc [a]	11.3	9.8	2.5	1.5	mg/kg	10	04/03/15	04/06/15	LM	SW846 6010C [1]	SW846 3050B [2]

(1) Instrument QC Batch: MA12320
(2) Prep QC Batch: MP28752

(a) Sample dilution required due to difficult matrix.

LOQ = Limit of Quantitation DL = Detection Limit U = Indicates a result < LOD
LOD = Limit of Detection J = Indicates a result > = DL (MDL) but < LOQ

Report of Analysis

Client Sample ID:	TS862-3A		
Lab Sample ID:	FA23258-6	**Date Sampled:**	03/29/15
Matrix:	SO - Soil	**Date Received:**	04/01/15
		Percent Solids:	82.7
Project:	HM-AZ PBR Holloman AFB; Alamogordo, NM		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Solids, Percent	82.7		%	1	04/02/15 16:34	JC	SM19 2540G

RL = Reporting Limit

Accutest Laboratories

Report of Analysis

Client Sample ID:	TS862-4		
Lab Sample ID:	FA23258-7	**Date Sampled:**	03/29/15
Matrix:	SO - Soil	**Date Received:**	04/01/15
Method:	SW846 8270D SW846 3550C	**Percent Solids:**	85.3
Project:	HM-AZ PBR Holloman AFB; Alamogordo, NM		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	L0681762.D	1	04/07/15	MV	04/03/15	OP55582	SL3632
Run #2							

	Initial Weight	Final Volume
Run #1	29.7 g	1.0 ml
Run #2		

BN PAH List

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
83-32-9	Acenaphthene	39 U	200	39	20	ug/kg	
208-96-8	Acenaphthylene	39 U	200	39	20	ug/kg	
120-12-7	Anthracene	39 U	200	39	20	ug/kg	
56-55-3	Benzo(a)anthracene	39 U	200	39	20	ug/kg	
50-32-8	Benzo(a)pyrene	39 U	200	39	20	ug/kg	
205-99-2	Benzo(b)fluoranthene	39 U	200	39	20	ug/kg	
191-24-2	Benzo(g,h,i)perylene	39 U	200	39	20	ug/kg	
207-08-9	Benzo(k)fluoranthene	39 U	200	39	20	ug/kg	
218-01-9	Chrysene	39 U	200	39	20	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	39 U	200	39	20	ug/kg	
206-44-0	Fluoranthene	39 U	200	39	20	ug/kg	
86-73-7	Fluorene	39 U	200	39	20	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	39 U	200	39	20	ug/kg	
90-12-0	1-Methylnaphthalene	39 U	200	39	20	ug/kg	
91-57-6	2-Methylnaphthalene	39 U	200	39	20	ug/kg	
91-20-3	Naphthalene	39 U	200	39	20	ug/kg	
85-01-8	Phenanthrene	39 U	200	39	20	ug/kg	
129-00-0	Pyrene	39 U	200	39	20	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	66%		40-105%
321-60-8	2-Fluorobiphenyl	67%		43-107%
1718-51-0	Terphenyl-d14	83%		45-119%

U = Not detected LOD = Limit of Detection J = Indicates an estimated value
LOQ = Limit of Quantitation DL = Detection Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	TS862-4		
Lab Sample ID:	FA23258-7	**Date Sampled:**	03/29/15
Matrix:	SO - Soil	**Date Received:**	04/01/15
		Percent Solids:	85.3
Project:	HM-AZ PBR Holloman AFB; Alamogordo, NM		

Metals Analysis

Analyte	Result	LOQ	LOD	DL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Antimony [a]	1.9 J	9.5	2.4	0.61	mg/kg	10	04/03/15	04/03/15	LM	SW846 6010C [1]	SW846 3050B [2]
Arsenic [a]	0.95 J	4.7	2.4	0.95	mg/kg	10	04/03/15	04/03/15	LM	SW846 6010C [1]	SW846 3050B [2]
Copper [a]	3.0 J	12	0.95	0.47	mg/kg	10	04/03/15	04/03/15	LM	SW846 6010C [1]	SW846 3050B [2]
Lead [a]	0.86 J	9.5	1.9	0.47	mg/kg	10	04/03/15	04/03/15	LM	SW846 6010C [1]	SW846 3050B [2]
Zinc [a]	7.0 J	9.5	2.4	1.4	mg/kg	10	04/03/15	04/03/15	LM	SW846 6010C [1]	SW846 3050B [2]

(1) Instrument QC Batch: MA12317
(2) Prep QC Batch: MP28752

(a) Sample dilution required due to difficult matrix.

LOQ = Limit of Quantitation DL = Detection Limit U = Indicates a result < LOD
LOD = Limit of Detection J = Indicates a result > = DL (MDL) but < LOQ

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Report of Analysis

Client Sample ID:	TS862-104		
Lab Sample ID:	FA23258-8	**Date Sampled:**	03/29/15
Matrix:	SO - Soil	**Date Received:**	04/01/15
Method:	SW846 8270D SW846 3550C	**Percent Solids:**	84.3
Project:	HM-AZ PBR Holloman AFB; Alamogordo, NM		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	L0681763.D	1	04/07/15	MV	04/03/15	OP55582	SL3632
Run #2							

	Initial Weight	Final Volume
Run #1	29.8 g	1.0 ml
Run #2		

BN PAH List

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
83-32-9	Acenaphthene	40 U	200	40	20	ug/kg	
208-96-8	Acenaphthylene	40 U	200	40	20	ug/kg	
120-12-7	Anthracene	40 U	200	40	20	ug/kg	
56-55-3	Benzo(a)anthracene	40 U	200	40	20	ug/kg	
50-32-8	Benzo(a)pyrene	40 U	200	40	20	ug/kg	
205-99-2	Benzo(b)fluoranthene	40 U	200	40	20	ug/kg	
191-24-2	Benzo(g,h,i)perylene	40 U	200	40	20	ug/kg	
207-08-9	Benzo(k)fluoranthene	40 U	200	40	20	ug/kg	
218-01-9	Chrysene	40 U	200	40	20	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	40 U	200	40	20	ug/kg	
206-44-0	Fluoranthene	40 U	200	40	20	ug/kg	
86-73-7	Fluorene	40 U	200	40	20	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	40 U	200	40	20	ug/kg	
90-12-0	1-Methylnaphthalene	40 U	200	40	20	ug/kg	
91-57-6	2-Methylnaphthalene	40 U	200	40	20	ug/kg	
91-20-3	Naphthalene	40 U	200	40	20	ug/kg	
85-01-8	Phenanthrene	40 U	200	40	20	ug/kg	
129-00-0	Pyrene	40 U	200	40	20	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	71%		40-105%
321-60-8	2-Fluorobiphenyl	71%		43-107%
1718-51-0	Terphenyl-d14	87%		45-119%

U = Not detected LOD = Limit of Detection J = Indicates an estimated value
LOQ = Limit of Quantitation DL = Detection Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	TS862-104		
Lab Sample ID:	FA23258-8	**Date Sampled:**	03/29/15
Matrix:	SO - Soil	**Date Received:**	04/01/15
		Percent Solids:	84.3
Project:	HM-AZ PBR Holloman AFB; Alamogordo, NM		

Metals Analysis

Analyte	Result	LOQ	LOD	DL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Antimony [a]	0.97 J	10	2.6	0.66	mg/kg	10	04/03/15	04/03/15	LM	SW846 6010C [1]	SW846 3050B [2]
Arsenic [a]	2.6 U	5.1	2.6	1.0	mg/kg	10	04/03/15	04/03/15	LM	SW846 6010C [1]	SW846 3050B [2]
Copper [a]	3.1 J	13	1.0	0.51	mg/kg	10	04/03/15	04/03/15	LM	SW846 6010C [1]	SW846 3050B [2]
Lead [a]	0.99 J	10	2.0	0.51	mg/kg	10	04/03/15	04/03/15	LM	SW846 6010C [1]	SW846 3050B [2]
Zinc [a]	8.0 J	10	2.6	1.5	mg/kg	10	04/03/15	04/03/15	LM	SW846 6010C [1]	SW846 3050B [2]

(1) Instrument QC Batch: MA12317
(2) Prep QC Batch: MP28752

(a) Sample dilution required due to difficult matrix.

LOQ = Limit of Quantitation DL = Detection Limit U = Indicates a result < LOD
LOD = Limit of Detection J = Indicates a result > = DL (MDL) but < LOQ

Report of Analysis

Client Sample ID:	TS862-4A		
Lab Sample ID:	FA23258-9	**Date Sampled:**	03/29/15
Matrix:	SO - Soil	**Date Received:**	04/01/15
		Percent Solids:	86.2
Project:	HM-AZ PBR Holloman AFB; Alamogordo, NM		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Solids, Percent	86.2		%	1	04/02/15 16:34	JC	SM19 2540G

RL = Reporting Limit

Accutest Laboratories

Report of Analysis

Client Sample ID:	TS862-5		
Lab Sample ID:	FA23258-10	**Date Sampled:**	03/29/15
Matrix:	SO - Soil	**Date Received:**	04/01/15
Method:	SW846 8270D SW846 3550C	**Percent Solids:**	81.6
Project:	HM-AZ PBR Holloman AFB; Alamogordo, NM		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	L0681764.D	1	04/07/15	MV	04/03/15	OP55582	SL3632
Run #2							

	Initial Weight	Final Volume
Run #1	29.7 g	1.0 ml
Run #2		

BN PAH List

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
83-32-9	Acenaphthene	41 U	210	41	21	ug/kg	
208-96-8	Acenaphthylene	41 U	210	41	21	ug/kg	
120-12-7	Anthracene	41 U	210	41	21	ug/kg	
56-55-3	Benzo(a)anthracene	41 U	210	41	21	ug/kg	
50-32-8	Benzo(a)pyrene	41 U	210	41	21	ug/kg	
205-99-2	Benzo(b)fluoranthene	41 U	210	41	21	ug/kg	
191-24-2	Benzo(g,h,i)perylene	41 U	210	41	21	ug/kg	
207-08-9	Benzo(k)fluoranthene	41 U	210	41	21	ug/kg	
218-01-9	Chrysene	41 U	210	41	21	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	41 U	210	41	21	ug/kg	
206-44-0	Fluoranthene	41 U	210	41	21	ug/kg	
86-73-7	Fluorene	41 U	210	41	21	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	41 U	210	41	21	ug/kg	
90-12-0	1-Methylnaphthalene	41 U	210	41	21	ug/kg	
91-57-6	2-Methylnaphthalene	41 U	210	41	21	ug/kg	
91-20-3	Naphthalene	41 U	210	41	21	ug/kg	
85-01-8	Phenanthrene	41 U	210	41	21	ug/kg	
129-00-0	Pyrene	41 U	210	41	21	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	72%		40-105%
321-60-8	2-Fluorobiphenyl	68%		43-107%
1718-51-0	Terphenyl-d14	91%		45-119%

U = Not detected LOD = Limit of Detection J = Indicates an estimated value
LOQ = Limit of Quantitation DL = Detection Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	TS862-5		
Lab Sample ID:	FA23258-10	**Date Sampled:**	03/29/15
Matrix:	SO - Soil	**Date Received:**	04/01/15
		Percent Solids:	81.6
Project:	HM-AZ PBR Holloman AFB; Alamogordo, NM		

Metals Analysis

Analyte	Result	LOQ	LOD	DL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Antimony [a]	1.9 J	9.6	2.4	0.63	mg/kg	10	04/03/15	04/03/15	LM	SW846 6010C [1]	SW846 3050B [2]
Arsenic [a]	2.4 U	4.8	2.4	0.96	mg/kg	10	04/03/15	04/03/15	LM	SW846 6010C [1]	SW846 3050B [2]
Copper [a]	2.7 J	12	0.96	0.48	mg/kg	10	04/03/15	04/03/15	LM	SW846 6010C [1]	SW846 3050B [2]
Lead [a]	1.4 J	9.6	1.9	0.48	mg/kg	10	04/03/15	04/03/15	LM	SW846 6010C [1]	SW846 3050B [2]
Zinc [a]	7.4 J	9.6	2.4	1.4	mg/kg	10	04/03/15	04/03/15	LM	SW846 6010C [1]	SW846 3050B [2]

(1) Instrument QC Batch: MA12317
(2) Prep QC Batch: MP28752

(a) Sample dilution required due to difficult matrix.

LOQ = Limit of Quantitation DL = Detection Limit U = Indicates a result < LOD
LOD = Limit of Detection J = Indicates a result > = DL (MDL) but < LOQ

Report of Analysis

Client Sample ID:	TS862-5A		
Lab Sample ID:	FA23258-11	**Date Sampled:**	03/29/15
Matrix:	SO - Soil	**Date Received:**	04/01/15
		Percent Solids:	81.4
Project:	HM-AZ PBR Holloman AFB; Alamogordo, NM		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Solids, Percent	81.4		%	1	04/02/15 16:34	JC	SM19 2540G

RL = Reporting Limit

Accutest Laboratories

Report of Analysis

Client Sample ID:	TS862-6		
Lab Sample ID:	FA23258-12	**Date Sampled:**	03/29/15
Matrix:	SO - Soil	**Date Received:**	04/01/15
Method:	SW846 8270D SW846 3550C	**Percent Solids:**	84.6
Project:	HM-AZ PBR Holloman AFB; Alamogordo, NM		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	L0681765.D	1	04/07/15	MV	04/03/15	OP55582	SL3632
Run #2							

	Initial Weight	Final Volume
Run #1	29.8 g	1.0 ml
Run #2		

BN PAH List

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
83-32-9	Acenaphthene	40 U	200	40	20	ug/kg	
208-96-8	Acenaphthylene	40 U	200	40	20	ug/kg	
120-12-7	Anthracene	40 U	200	40	20	ug/kg	
56-55-3	Benzo(a)anthracene	40 U	200	40	20	ug/kg	
50-32-8	Benzo(a)pyrene	40 U	200	40	20	ug/kg	
205-99-2	Benzo(b)fluoranthene	40 U	200	40	20	ug/kg	
191-24-2	Benzo(g,h,i)perylene	40 U	200	40	20	ug/kg	
207-08-9	Benzo(k)fluoranthene	40 U	200	40	20	ug/kg	
218-01-9	Chrysene	40 U	200	40	20	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	40 U	200	40	20	ug/kg	
206-44-0	Fluoranthene	40 U	200	40	20	ug/kg	
86-73-7	Fluorene	40 U	200	40	20	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	40 U	200	40	20	ug/kg	
90-12-0	1-Methylnaphthalene	40 U	200	40	20	ug/kg	
91-57-6	2-Methylnaphthalene	40 U	200	40	20	ug/kg	
91-20-3	Naphthalene	40 U	200	40	20	ug/kg	
85-01-8	Phenanthrene	40 U	200	40	20	ug/kg	
129-00-0	Pyrene	40 U	200	40	20	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	75%		40-105%
321-60-8	2-Fluorobiphenyl	72%		43-107%
1718-51-0	Terphenyl-d14	93%		45-119%

U = Not detected LOD = Limit of Detection J = Indicates an estimated value
LOQ = Limit of Quantitation DL = Detection Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	TS862-6		
Lab Sample ID:	FA23258-12	**Date Sampled:**	03/29/15
Matrix:	SO - Soil	**Date Received:**	04/01/15
		Percent Solids:	84.6
Project:	HM-AZ PBR Holloman AFB; Alamogordo, NM		

Metals Analysis

Analyte	Result	LOQ	LOD	DL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Antimony [a]	1.1 J	8.8	2.2	0.57	mg/kg	10	04/03/15	04/03/15	LM	SW846 6010C [1]	SW846 3050B [2]
Arsenic [a]	1.4 J	4.4	2.2	0.88	mg/kg	10	04/03/15	04/03/15	LM	SW846 6010C [1]	SW846 3050B [2]
Copper [a]	3.6 J	11	0.88	0.44	mg/kg	10	04/03/15	04/03/15	LM	SW846 6010C [1]	SW846 3050B [2]
Lead [a]	2.7 J	8.8	1.8	0.44	mg/kg	10	04/03/15	04/03/15	LM	SW846 6010C [1]	SW846 3050B [2]
Zinc [a]	14.2	8.8	2.2	1.3	mg/kg	10	04/03/15	04/03/15	LM	SW846 6010C [1]	SW846 3050B [2]

(1) Instrument QC Batch: MA12317
(2) Prep QC Batch: MP28752

(a) Sample dilution required due to difficult matrix.

LOQ = Limit of Quantitation DL = Detection Limit U = Indicates a result < LOD
LOD = Limit of Detection J = Indicates a result > = DL (MDL) but < LOQ

Report of Analysis

Client Sample ID:	TS862-6A		
Lab Sample ID:	FA23258-13	**Date Sampled:**	03/29/15
Matrix:	SO - Soil	**Date Received:**	04/01/15
		Percent Solids:	86.5
Project:	HM-AZ PBR Holloman AFB; Alamogordo, NM		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Solids, Percent	86.5		%	1	04/02/15 16:34	JC	SM19 2540G

RL = Reporting Limit

Accutest Laboratories

Report of Analysis

Client Sample ID:	TS862-EB1		
Lab Sample ID:	FA23258-14	**Date Sampled:**	03/29/15
Matrix:	AQ - Equipment Blank	**Date Received:**	04/01/15
Method:	SW846 8270D BY SIM SW846 3510C	**Percent Solids:**	n/a
Project:	HM-AZ PBR Holloman AFB; Alamogordo, NM		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	T017742.D	1	04/07/15	MG	04/03/15	OP55593	ST811
Run #2 [b]	T017852.D	1	04/10/15	MG	04/08/15	OP55650	ST813

	Initial Volume	Final Volume
Run #1	230 ml	1.0 ml
Run #2	240 ml	1.0 ml

BN PAH List

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
83-32-9	Acenaphthene	0.43 U	0.87	0.43	0.35	ug/l	
208-96-8	Acenaphthylene	0.43 U	0.87	0.43	0.35	ug/l	
120-12-7	Anthracene	0.43 U	0.87	0.43	0.22	ug/l	
56-55-3	Benzo(a)anthracene	0.043 U	0.17	0.043	0.035	ug/l	
50-32-8	Benzo(a)pyrene	0.043 U	0.17	0.043	0.035	ug/l	
205-99-2	Benzo(b)fluoranthene	0.043	0.17	0.043	0.035	ug/l	J
191-24-2	Benzo(g,h,i)perylene	0.041	0.17	0.043	0.035	ug/l	J
207-08-9	Benzo(k)fluoranthene	0.036	0.17	0.043	0.035	ug/l	J
218-01-9	Chrysene	0.087 U	0.17	0.087	0.035	ug/l	
53-70-3	Dibenzo(a,h)anthracene	0.043 U	0.17	0.043	0.035	ug/l	
206-44-0	Fluoranthene	0.43 U	0.87	0.43	0.22	ug/l	
86-73-7	Fluorene	0.43 U	0.87	0.43	0.22	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	0.038	0.17	0.043	0.035	ug/l	J
90-12-0	1-Methylnaphthalene	0.43 U	0.87	0.43	0.35	ug/l	
91-57-6	2-Methylnaphthalene	0.43 U	0.87	0.43	0.35	ug/l	
91-20-3	Naphthalene	0.43 U	0.87	0.43	0.35	ug/l	
85-01-8	Phenanthrene	0.43 U	0.87	0.43	0.22	ug/l	
129-00-0	Pyrene	0.43 U	0.87	0.43	0.22	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	89%	64%	41-129%
321-60-8	2-Fluorobiphenyl	93%	64%	41-118%
1718-51-0	Terphenyl-d14	112%	84%	45-145%

(a) Associated BS not spiked, recoveries with limits in MS/MSD. Re-extracted for confirmation.
(b) Confirmation run.

U = Not detected LOD = Limit of Detection J = Indicates an estimated value
LOQ = Limit of Quantitation DL = Detection Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	TS862-EB1		
Lab Sample ID:	FA23258-14	**Date Sampled:**	03/29/15
Matrix:	AQ - Equipment Blank	**Date Received:**	04/01/15
		Percent Solids:	n/a
Project:	HM-AZ PBR Holloman AFB; Alamogordo, NM		

Total Metals Analysis

Analyte	Result	LOQ	LOD	DL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Antimony	1.8 J	6.0	5.0	1.0	ug/l	1	04/07/15	04/07/15	LM	SW846 6010C [1]	SW846 3010A [2]
Arsenic	5.0 U	10	5.0	1.3	ug/l	1	04/07/15	04/07/15	LM	SW846 6010C [1]	SW846 3010A [2]
Copper	6.0 J	25	2.0	1.0	ug/l	1	04/07/15	04/07/15	LM	SW846 6010C [1]	SW846 3010A [2]
Lead	2.0 U	5.0	2.0	1.1	ug/l	1	04/07/15	04/07/15	LM	SW846 6010C [1]	SW846 3010A [2]
Zinc	8.8 J	20	5.0	4.4	ug/l	1	04/07/15	04/07/15	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA12324
(2) Prep QC Batch: MP28764

LOQ = Limit of Quantitation DL = Detection Limit U = Indicates a result < LOD
LOD = Limit of Detection J = Indicates a result > = DL (MDL) but < LOQ

Accutest Laboratories

Report of Analysis

Client Sample ID:	TS862-7		
Lab Sample ID:	FA23258-15	**Date Sampled:**	03/30/15
Matrix:	SO - Soil	**Date Received:**	04/01/15
Method:	SW846 8270D SW846 3550C	**Percent Solids:**	87.8
Project:	HM-AZ PBR Holloman AFB; Alamogordo, NM		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	L0681766.D	1	04/07/15	MV	04/03/15	OP55582	SL3632
Run #2							

	Initial Weight	Final Volume
Run #1	30.4 g	1.0 ml
Run #2		

BN PAH List

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
83-32-9	Acenaphthene	37 U	190	37	19	ug/kg	
208-96-8	Acenaphthylene	37 U	190	37	19	ug/kg	
120-12-7	Anthracene	37 U	190	37	19	ug/kg	
56-55-3	Benzo(a)anthracene	37 U	190	37	19	ug/kg	
50-32-8	Benzo(a)pyrene	37 U	190	37	19	ug/kg	
205-99-2	Benzo(b)fluoranthene	37 U	190	37	19	ug/kg	
191-24-2	Benzo(g,h,i)perylene	37 U	190	37	19	ug/kg	
207-08-9	Benzo(k)fluoranthene	37 U	190	37	19	ug/kg	
218-01-9	Chrysene	37 U	190	37	19	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	37 U	190	37	19	ug/kg	
206-44-0	Fluoranthene	37 U	190	37	19	ug/kg	
86-73-7	Fluorene	37 U	190	37	19	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	37 U	190	37	19	ug/kg	
90-12-0	1-Methylnaphthalene	37 U	190	37	19	ug/kg	
91-57-6	2-Methylnaphthalene	37 U	190	37	19	ug/kg	
91-20-3	Naphthalene	37 U	190	37	19	ug/kg	
85-01-8	Phenanthrene	37 U	190	37	19	ug/kg	
129-00-0	Pyrene	37 U	190	37	19	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	76%		40-105%
321-60-8	2-Fluorobiphenyl	73%		43-107%
1718-51-0	Terphenyl-d14	89%		45-119%

U = Not detected LOD = Limit of Detection J = Indicates an estimated value
LOQ = Limit of Quantitation DL = Detection Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	TS862-7		
Lab Sample ID:	FA23258-15	**Date Sampled:**	03/30/15
Matrix:	SO - Soil	**Date Received:**	04/01/15
		Percent Solids:	87.8
Project:	HM-AZ PBR Holloman AFB; Alamogordo, NM		

Metals Analysis

Analyte	Result	LOQ	LOD	DL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Antimony [a]	2.5 U	9.8	2.5	0.64	mg/kg	10	04/03/15	04/03/15	LM	SW846 6010C [1]	SW846 3050B [2]
Arsenic [a]	1.4 J	4.9	2.5	0.98	mg/kg	10	04/03/15	04/03/15	LM	SW846 6010C [1]	SW846 3050B [2]
Copper [a]	3.1 J	12	0.98	0.49	mg/kg	10	04/03/15	04/03/15	LM	SW846 6010C [1]	SW846 3050B [2]
Lead [a]	1.6 J	9.8	2.0	0.49	mg/kg	10	04/03/15	04/03/15	LM	SW846 6010C [1]	SW846 3050B [2]
Zinc [a]	11.9	9.8	2.5	1.5	mg/kg	10	04/03/15	04/03/15	LM	SW846 6010C [1]	SW846 3050B [2]

(1) Instrument QC Batch: MA12317
(2) Prep QC Batch: MP28752

(a) Sample dilution required due to difficult matrix.

LOQ = Limit of Quantitation DL = Detection Limit U = Indicates a result < LOD
LOD = Limit of Detection J = Indicates a result > = DL (MDL) but < LOQ

Report of Analysis

Client Sample ID:	TS862-7A		
Lab Sample ID:	FA23258-16	**Date Sampled:**	03/30/15
Matrix:	SO - Soil	**Date Received:**	04/01/15
		Percent Solids:	87.7
Project:	HM-AZ PBR Holloman AFB; Alamogordo, NM		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Solids, Percent	87.7		%	1	04/02/15 16:34	JC	SM19 2540G

RL = Reporting Limit

Accutest Laboratories

Report of Analysis

Client Sample ID:	TS862-8		
Lab Sample ID:	FA23258-17	**Date Sampled:**	03/30/15
Matrix:	SO - Soil	**Date Received:**	04/01/15
Method:	SW846 8270D SW846 3550C	**Percent Solids:**	83.5
Project:	HM-AZ PBR Holloman AFB; Alamogordo, NM		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	L0681767.D	1	04/07/15	MV	04/03/15	OP55582	SL3632
Run #2							

	Initial Weight	Final Volume
Run #1	29.9 g	1.0 ml
Run #2		

BN PAH List

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
83-32-9	Acenaphthene	40 U	200	40	20	ug/kg	
208-96-8	Acenaphthylene	40 U	200	40	20	ug/kg	
120-12-7	Anthracene	40 U	200	40	20	ug/kg	
56-55-3	Benzo(a)anthracene	40 U	200	40	20	ug/kg	
50-32-8	Benzo(a)pyrene	40 U	200	40	20	ug/kg	
205-99-2	Benzo(b)fluoranthene	40 U	200	40	20	ug/kg	
191-24-2	Benzo(g,h,i)perylene	40 U	200	40	20	ug/kg	
207-08-9	Benzo(k)fluoranthene	40 U	200	40	20	ug/kg	
218-01-9	Chrysene	40 U	200	40	20	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	40 U	200	40	20	ug/kg	
206-44-0	Fluoranthene	40 U	200	40	20	ug/kg	
86-73-7	Fluorene	40 U	200	40	20	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	40 U	200	40	20	ug/kg	
90-12-0	1-Methylnaphthalene	40 U	200	40	20	ug/kg	
91-57-6	2-Methylnaphthalene	40 U	200	40	20	ug/kg	
91-20-3	Naphthalene	40 U	200	40	20	ug/kg	
85-01-8	Phenanthrene	40 U	200	40	20	ug/kg	
129-00-0	Pyrene	40 U	200	40	20	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	81%		40-105%
321-60-8	2-Fluorobiphenyl	77%		43-107%
1718-51-0	Terphenyl-d14	96%		45-119%

U = Not detected LOD = Limit of Detection J = Indicates an estimated value
LOQ = Limit of Quantitation DL = Detection Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	TS862-8		
Lab Sample ID:	FA23258-17	**Date Sampled:**	03/30/15
Matrix:	SO - Soil	**Date Received:**	04/01/15
		Percent Solids:	83.5
Project:	HM-AZ PBR Holloman AFB; Alamogordo, NM		

Metals Analysis

Analyte	Result	LOQ	LOD	DL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Antimony [a]	0.84 J	11	2.7	0.70	mg/kg	10	04/03/15	04/03/15	LM	SW846 6010C [1]	SW846 3050B [2]
Arsenic [a]	1.3 J	5.4	2.7	1.1	mg/kg	10	04/03/15	04/03/15	LM	SW846 6010C [1]	SW846 3050B [2]
Copper [a]	3.8 J	13	1.1	0.54	mg/kg	10	04/03/15	04/03/15	LM	SW846 6010C [1]	SW846 3050B [2]
Lead [a]	2.2 J	11	2.2	0.54	mg/kg	10	04/03/15	04/03/15	LM	SW846 6010C [1]	SW846 3050B [2]
Zinc [a]	14.3	11	2.7	1.6	mg/kg	10	04/03/15	04/03/15	LM	SW846 6010C [1]	SW846 3050B [2]

(1) Instrument QC Batch: MA12317
(2) Prep QC Batch: MP28752

(a) Sample dilution required due to difficult matrix.

LOQ = Limit of Quantitation DL = Detection Limit U = Indicates a result < LOD
LOD = Limit of Detection J = Indicates a result > = DL (MDL) but < LOQ

Report of Analysis

Client Sample ID:	TS862-8A		
Lab Sample ID:	FA23258-18	**Date Sampled:**	03/30/15
Matrix:	SO - Soil	**Date Received:**	04/01/15
		Percent Solids:	85.1
Project:	HM-AZ PBR Holloman AFB; Alamogordo, NM		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Solids, Percent	85.1		%	1	04/02/15 16:34	JC	SM19 2540G

RL = Reporting Limit

Accutest Laboratories

Report of Analysis

Client Sample ID:	TS862-9		
Lab Sample ID:	FA23258-19	**Date Sampled:**	03/30/15
Matrix:	SO - Soil	**Date Received:**	04/01/15
Method:	SW846 8270D SW846 3550C	**Percent Solids:**	83.0
Project:	HM-AZ PBR Holloman AFB; Alamogordo, NM		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	L0681768.D	1	04/07/15	MV	04/03/15	OP55582	SL3632
Run #2							

	Initial Weight	Final Volume
Run #1	30.1 g	1.0 ml
Run #2		

BN PAH List

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
83-32-9	Acenaphthene	40 U	200	40	20	ug/kg	
208-96-8	Acenaphthylene	40 U	200	40	20	ug/kg	
120-12-7	Anthracene	40 U	200	40	20	ug/kg	
56-55-3	Benzo(a)anthracene	40 U	200	40	20	ug/kg	
50-32-8	Benzo(a)pyrene	40 U	200	40	20	ug/kg	
205-99-2	Benzo(b)fluoranthene	40 U	200	40	20	ug/kg	
191-24-2	Benzo(g,h,i)perylene	40 U	200	40	20	ug/kg	
207-08-9	Benzo(k)fluoranthene	40 U	200	40	20	ug/kg	
218-01-9	Chrysene	40 U	200	40	20	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	40 U	200	40	20	ug/kg	
206-44-0	Fluoranthene	40 U	200	40	20	ug/kg	
86-73-7	Fluorene	40 U	200	40	20	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	40 U	200	40	20	ug/kg	
90-12-0	1-Methylnaphthalene	40 U	200	40	20	ug/kg	
91-57-6	2-Methylnaphthalene	40 U	200	40	20	ug/kg	
91-20-3	Naphthalene	40 U	200	40	20	ug/kg	
85-01-8	Phenanthrene	40 U	200	40	20	ug/kg	
129-00-0	Pyrene	40 U	200	40	20	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	80%		40-105%
321-60-8	2-Fluorobiphenyl	79%		43-107%
1718-51-0	Terphenyl-d14	96%		45-119%

U = Not detected LOD = Limit of Detection J = Indicates an estimated value
LOQ = Limit of Quantitation DL = Detection Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	TS862-9		
Lab Sample ID:	FA23258-19	**Date Sampled:**	03/30/15
Matrix:	SO - Soil	**Date Received:**	04/01/15
		Percent Solids:	83.0
Project:	HM-AZ PBR Holloman AFB; Alamogordo, NM		

Metals Analysis

Analyte	Result	LOQ	LOD	DL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Antimony [a]	0.98 J	12	2.9	0.76	mg/kg	10	04/03/15	04/03/15	LM	SW846 6010C [1]	SW846 3050B [2]
Arsenic [a]	2.9 U	5.8	2.9	1.2	mg/kg	10	04/03/15	04/03/15	LM	SW846 6010C [1]	SW846 3050B [2]
Copper [a]	3.4 J	15	1.2	0.58	mg/kg	10	04/03/15	04/03/15	LM	SW846 6010C [1]	SW846 3050B [2]
Lead [a]	1.9 J	12	2.3	0.58	mg/kg	10	04/03/15	04/03/15	LM	SW846 6010C [1]	SW846 3050B [2]
Zinc [a]	10.6 J	12	2.9	1.8	mg/kg	10	04/03/15	04/03/15	LM	SW846 6010C [1]	SW846 3050B [2]

(1) Instrument QC Batch: MA12317
(2) Prep QC Batch: MP28752

(a) Sample dilution required due to difficult matrix.

LOQ = Limit of Quantitation DL = Detection Limit U = Indicates a result < LOD
LOD = Limit of Detection J = Indicates a result > = DL (MDL) but < LOQ

Report of Analysis

Client Sample ID:	TS862-9A		
Lab Sample ID:	FA23258-20	**Date Sampled:**	03/30/15
Matrix:	SO - Soil	**Date Received:**	04/01/15
		Percent Solids:	84.5
Project:	HM-AZ PBR Holloman AFB; Alamogordo, NM		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Solids, Percent	84.5		%	1	04/02/15 17:01	JC	SM19 2540G

RL = Reporting Limit

Accutest Laboratories

Report of Analysis

Client Sample ID:	TS862-10		
Lab Sample ID:	FA23258-21	**Date Sampled:**	03/30/15
Matrix:	SO - Soil	**Date Received:**	04/01/15
Method:	SW846 8270D SW846 3550C	**Percent Solids:**	85.2
Project:	HM-AZ PBR Holloman AFB; Alamogordo, NM		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	L0681769.D	1	04/07/15	MV	04/03/15	OP55582	SL3632
Run #2							

	Initial Weight	Final Volume
Run #1	30.4 g	1.0 ml
Run #2		

BN PAH List

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
83-32-9	Acenaphthene	39 U	190	39	19	ug/kg	
208-96-8	Acenaphthylene	39 U	190	39	19	ug/kg	
120-12-7	Anthracene	39 U	190	39	19	ug/kg	
56-55-3	Benzo(a)anthracene	39 U	190	39	19	ug/kg	
50-32-8	Benzo(a)pyrene	39 U	190	39	19	ug/kg	
205-99-2	Benzo(b)fluoranthene	39 U	190	39	19	ug/kg	
191-24-2	Benzo(g,h,i)perylene	39 U	190	39	19	ug/kg	
207-08-9	Benzo(k)fluoranthene	39 U	190	39	19	ug/kg	
218-01-9	Chrysene	39 U	190	39	19	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	39 U	190	39	19	ug/kg	
206-44-0	Fluoranthene	39 U	190	39	19	ug/kg	
86-73-7	Fluorene	39 U	190	39	19	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	39 U	190	39	19	ug/kg	
90-12-0	1-Methylnaphthalene	39 U	190	39	19	ug/kg	
91-57-6	2-Methylnaphthalene	39 U	190	39	19	ug/kg	
91-20-3	Naphthalene	39 U	190	39	19	ug/kg	
85-01-8	Phenanthrene	39 U	190	39	19	ug/kg	
129-00-0	Pyrene	39 U	190	39	19	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	73%		40-105%
321-60-8	2-Fluorobiphenyl	70%		43-107%
1718-51-0	Terphenyl-d14	86%		45-119%

U = Not detected LOD = Limit of Detection J = Indicates an estimated value
LOQ = Limit of Quantitation DL = Detection Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	TS862-10		
Lab Sample ID:	FA23258-21	**Date Sampled:**	03/30/15
Matrix:	SO - Soil	**Date Received:**	04/01/15
		Percent Solids:	85.2
Project:	HM-AZ PBR Holloman AFB; Alamogordo, NM		

Metals Analysis

Analyte	Result	LOQ	LOD	DL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Antimony [a]	1.1 J	9.4	2.3	0.61	mg/kg	10	04/03/15	04/03/15	LM	SW846 6010C [1]	SW846 3050B [2]
Arsenic [a]	1.3 J	4.7	2.3	0.94	mg/kg	10	04/03/15	04/03/15	LM	SW846 6010C [1]	SW846 3050B [2]
Copper [a]	3.7 J	12	0.94	0.47	mg/kg	10	04/03/15	04/03/15	LM	SW846 6010C [1]	SW846 3050B [2]
Lead [a]	2.4 J	9.4	1.9	0.47	mg/kg	10	04/03/15	04/03/15	LM	SW846 6010C [1]	SW846 3050B [2]
Zinc [a]	14.8	9.4	2.3	1.4	mg/kg	10	04/03/15	04/03/15	LM	SW846 6010C [1]	SW846 3050B [2]

(1) Instrument QC Batch: MA12317
(2) Prep QC Batch: MP28752

(a) Sample dilution required due to difficult matrix.

LOQ = Limit of Quantitation DL = Detection Limit U = Indicates a result < LOD
LOD = Limit of Detection J = Indicates a result > = DL (MDL) but < LOQ

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Report of Analysis

Client Sample ID:	TS862-11		
Lab Sample ID:	FA23258-22	**Date Sampled:**	03/30/15
Matrix:	SO - Soil	**Date Received:**	04/01/15
Method:	SW846 8270D SW846 3550C	**Percent Solids:**	83.0
Project:	HM-AZ PBR Holloman AFB; Alamogordo, NM		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	L0681770.D	1	04/07/15	MV	04/03/15	OP55582	SL3632
Run #2							

	Initial Weight	Final Volume
Run #1	30.4 g	1.0 ml
Run #2		

BN PAH List

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
83-32-9	Acenaphthene	40 U	200	40	20	ug/kg	
208-96-8	Acenaphthylene	40 U	200	40	20	ug/kg	
120-12-7	Anthracene	40 U	200	40	20	ug/kg	
56-55-3	Benzo(a)anthracene	40 U	200	40	20	ug/kg	
50-32-8	Benzo(a)pyrene	40 U	200	40	20	ug/kg	
205-99-2	Benzo(b)fluoranthene	40 U	200	40	20	ug/kg	
191-24-2	Benzo(g,h,i)perylene	40 U	200	40	20	ug/kg	
207-08-9	Benzo(k)fluoranthene	40 U	200	40	20	ug/kg	
218-01-9	Chrysene	40 U	200	40	20	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	40 U	200	40	20	ug/kg	
206-44-0	Fluoranthene	40 U	200	40	20	ug/kg	
86-73-7	Fluorene	40 U	200	40	20	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	40 U	200	40	20	ug/kg	
90-12-0	1-Methylnaphthalene	40 U	200	40	20	ug/kg	
91-57-6	2-Methylnaphthalene	40 U	200	40	20	ug/kg	
91-20-3	Naphthalene	40 U	200	40	20	ug/kg	
85-01-8	Phenanthrene	40 U	200	40	20	ug/kg	
129-00-0	Pyrene	40 U	200	40	20	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	84%		40-105%
321-60-8	2-Fluorobiphenyl	80%		43-107%
1718-51-0	Terphenyl-d14	98%		45-119%

U = Not detected LOD = Limit of Detection J = Indicates an estimated value
LOQ = Limit of Quantitation DL = Detection Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	TS862-11		
Lab Sample ID:	FA23258-22	**Date Sampled:**	03/30/15
Matrix:	SO - Soil	**Date Received:**	04/01/15
		Percent Solids:	83.0
Project:	HM-AZ PBR Holloman AFB; Alamogordo, NM		

Metals Analysis

Analyte	Result	LOQ	LOD	DL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Antimony [a]	2.7 U	11	2.7	0.71	mg/kg	10	04/03/15	04/03/15	LM	SW846 6010C [1]	SW846 3050B [3]
Arsenic [a]	1.2 J	5.5	2.7	1.1	mg/kg	10	04/03/15	04/03/15	LM	SW846 6010C [1]	SW846 3050B [3]
Copper [a]	4.5 J	14	1.1	0.55	mg/kg	10	04/03/15	04/03/15	LM	SW846 6010C [1]	SW846 3050B [3]
Lead [a]	2.9 J	11	2.2	0.55	mg/kg	10	04/03/15	04/06/15	LM	SW846 6010C [2]	SW846 3050B [3]
Zinc [a]	12.8	11	2.7	1.6	mg/kg	10	04/03/15	04/06/15	LM	SW846 6010C [2]	SW846 3050B [3]

(1) Instrument QC Batch: MA12317
(2) Instrument QC Batch: MA12320
(3) Prep QC Batch: MP28752

(a) Sample dilution required due to difficult matrix.

LOQ = Limit of Quantitation DL = Detection Limit U = Indicates a result < LOD
LOD = Limit of Detection J = Indicates a result > = DL (MDL) but < LOQ

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Report of Analysis

Client Sample ID:	TS862-107		
Lab Sample ID:	FA23258-23	**Date Sampled:**	03/30/15
Matrix:	SO - Soil	**Date Received:**	04/01/15
Method:	SW846 8270D SW846 3550C	**Percent Solids:**	85.5
Project:	HM-AZ PBR Holloman AFB; Alamogordo, NM		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	L0681771.D	1	04/07/15	MV	04/03/15	OP55582	SL3632
Run #2							

	Initial Weight	Final Volume
Run #1	30.3 g	1.0 ml
Run #2		

BN PAH List

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
83-32-9	Acenaphthene	39 U	190	39	19	ug/kg	
208-96-8	Acenaphthylene	39 U	190	39	19	ug/kg	
120-12-7	Anthracene	39 U	190	39	19	ug/kg	
56-55-3	Benzo(a)anthracene	39 U	190	39	19	ug/kg	
50-32-8	Benzo(a)pyrene	39 U	190	39	19	ug/kg	
205-99-2	Benzo(b)fluoranthene	39 U	190	39	19	ug/kg	
191-24-2	Benzo(g,h,i)perylene	39 U	190	39	19	ug/kg	
207-08-9	Benzo(k)fluoranthene	39 U	190	39	19	ug/kg	
218-01-9	Chrysene	39 U	190	39	19	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	39 U	190	39	19	ug/kg	
206-44-0	Fluoranthene	39 U	190	39	19	ug/kg	
86-73-7	Fluorene	39 U	190	39	19	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	39 U	190	39	19	ug/kg	
90-12-0	1-Methylnaphthalene	39 U	190	39	19	ug/kg	
91-57-6	2-Methylnaphthalene	39 U	190	39	19	ug/kg	
91-20-3	Naphthalene	39 U	190	39	19	ug/kg	
85-01-8	Phenanthrene	39 U	190	39	19	ug/kg	
129-00-0	Pyrene	39 U	190	39	19	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	84%		40-105%
321-60-8	2-Fluorobiphenyl	79%		43-107%
1718-51-0	Terphenyl-d14	100%		45-119%

U = Not detected LOD = Limit of Detection J = Indicates an estimated value
LOQ = Limit of Quantitation DL = Detection Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	TS862-107		
Lab Sample ID:	FA23258-23	**Date Sampled:**	03/30/15
Matrix:	SO - Soil	**Date Received:**	04/01/15
		Percent Solids:	85.5
Project:	HM-AZ PBR Holloman AFB; Alamogordo, NM		

Metals Analysis

Analyte	Result	LOQ	LOD	DL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Antimony [a]	1.1 J	9.4	2.4	0.61	mg/kg	10	04/03/15	04/03/15	LM	SW846 6010C [1]	SW846 3050B [3]
Arsenic [a]	1.7 J	4.7	2.4	0.94	mg/kg	10	04/03/15	04/03/15	LM	SW846 6010C [1]	SW846 3050B [3]
Copper [a]	4.2 J	12	0.94	0.47	mg/kg	10	04/03/15	04/03/15	LM	SW846 6010C [1]	SW846 3050B [3]
Lead [a]	3.3 J	9.4	1.9	0.47	mg/kg	10	04/03/15	04/06/15	LM	SW846 6010C [2]	SW846 3050B [3]
Zinc [a]	14.8	9.4	2.4	1.4	mg/kg	10	04/03/15	04/06/15	LM	SW846 6010C [2]	SW846 3050B [3]

(1) Instrument QC Batch: MA12317
(2) Instrument QC Batch: MA12320
(3) Prep QC Batch: MP28752

(a) Sample dilution required due to difficult matrix.

LOQ = Limit of Quantitation DL = Detection Limit U = Indicates a result < LOD
LOD = Limit of Detection J = Indicates a result > = DL (MDL) but < LOQ

Report of Analysis

Client Sample ID:	TS862-11A		
Lab Sample ID:	FA23258-24	**Date Sampled:**	03/30/15
Matrix:	SO - Soil	**Date Received:**	04/01/15
		Percent Solids:	85.5
Project:	HM-AZ PBR Holloman AFB; Alamogordo, NM		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Solids, Percent	85.5		%	1	04/02/15 17:01	JC	SM19 2540G

RL = Reporting Limit

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Report of Analysis

Client Sample ID:	TS862-12		
Lab Sample ID:	FA23258-25	**Date Sampled:**	03/30/15
Matrix:	SO - Soil	**Date Received:**	04/01/15
Method:	SW846 8270D SW846 3550C	**Percent Solids:**	82.2
Project:	HM-AZ PBR Holloman AFB; Alamogordo, NM		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	L0681772.D	1	04/07/15	MV	04/03/15	OP55582	SL3632
Run #2							

	Initial Weight	Final Volume
Run #1	30.3 g	1.0 ml
Run #2		

BN PAH List

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
83-32-9	Acenaphthene	40 U	200	40	20	ug/kg	
208-96-8	Acenaphthylene	40 U	200	40	20	ug/kg	
120-12-7	Anthracene	40 U	200	40	20	ug/kg	
56-55-3	Benzo(a)anthracene	40 U	200	40	20	ug/kg	
50-32-8	Benzo(a)pyrene	40 U	200	40	20	ug/kg	
205-99-2	Benzo(b)fluoranthene	40 U	200	40	20	ug/kg	
191-24-2	Benzo(g,h,i)perylene	40 U	200	40	20	ug/kg	
207-08-9	Benzo(k)fluoranthene	40 U	200	40	20	ug/kg	
218-01-9	Chrysene	40 U	200	40	20	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	40 U	200	40	20	ug/kg	
206-44-0	Fluoranthene	40 U	200	40	20	ug/kg	
86-73-7	Fluorene	40 U	200	40	20	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	40 U	200	40	20	ug/kg	
90-12-0	1-Methylnaphthalene	40 U	200	40	20	ug/kg	
91-57-6	2-Methylnaphthalene	40 U	200	40	20	ug/kg	
91-20-3	Naphthalene	40 U	200	40	20	ug/kg	
85-01-8	Phenanthrene	40 U	200	40	20	ug/kg	
129-00-0	Pyrene	40 U	200	40	20	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	75%		40-105%
321-60-8	2-Fluorobiphenyl	71%		43-107%
1718-51-0	Terphenyl-d14	86%		45-119%

U = Not detected LOD = Limit of Detection J = Indicates an estimated value
LOQ = Limit of Quantitation DL = Detection Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	TS862-12		
Lab Sample ID:	FA23258-25	**Date Sampled:**	03/30/15
Matrix:	SO - Soil	**Date Received:**	04/01/15
		Percent Solids:	82.2
Project:	HM-AZ PBR Holloman AFB; Alamogordo, NM		

Metals Analysis

Analyte	Result	LOQ	LOD	DL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Antimony [a]	1.2 J	10	2.6	0.67	mg/kg	10	04/03/15	04/03/15	LM	SW846 6010C [1]	SW846 3050B [3]
Arsenic [a]	1.6 J	5.2	2.6	1.0	mg/kg	10	04/03/15	04/03/15	LM	SW846 6010C [1]	SW846 3050B [3]
Copper [a]	4.2 J	13	1.0	0.52	mg/kg	10	04/03/15	04/03/15	LM	SW846 6010C [1]	SW846 3050B [3]
Lead [a]	3.1 J	10	2.1	0.52	mg/kg	10	04/03/15	04/06/15	LM	SW846 6010C [2]	SW846 3050B [3]
Zinc [a]	13.5	10	2.6	1.5	mg/kg	10	04/03/15	04/06/15	LM	SW846 6010C [2]	SW846 3050B [3]

(1) Instrument QC Batch: MA12317
(2) Instrument QC Batch: MA12320
(3) Prep QC Batch: MP28752

(a) Sample dilution required due to difficult matrix.

LOQ = Limit of Quantitation DL = Detection Limit U = Indicates a result < LOD
LOD = Limit of Detection J = Indicates a result > = DL (MDL) but < LOQ

Report of Analysis

Client Sample ID:	TS862-12A		
Lab Sample ID:	FA23258-26	**Date Sampled:**	03/30/15
Matrix:	SO - Soil	**Date Received:**	04/01/15
		Percent Solids:	83.7
Project:	HM-AZ PBR Holloman AFB; Alamogordo, NM		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Solids, Percent	83.7		%	1	04/02/15 17:01	JC	SM19 2540G

RL = Reporting Limit

Accutest Laboratories

Report of Analysis

Client Sample ID:	TS862-13		
Lab Sample ID:	FA23258-27	**Date Sampled:**	03/30/15
Matrix:	SO - Soil	**Date Received:**	04/01/15
Method:	SW846 8270D SW846 3550C	**Percent Solids:**	82.8
Project:	HM-AZ PBR Holloman AFB; Alamogordo, NM		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	L0681773.D	1	04/07/15	MV	04/03/15	OP55582	SL3632
Run #2							

	Initial Weight	Final Volume
Run #1	30.4 g	1.0 ml
Run #2		

BN PAH List

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
83-32-9	Acenaphthene	40 U	200	40	20	ug/kg	
208-96-8	Acenaphthylene	40 U	200	40	20	ug/kg	
120-12-7	Anthracene	40 U	200	40	20	ug/kg	
56-55-3	Benzo(a)anthracene	40 U	200	40	20	ug/kg	
50-32-8	Benzo(a)pyrene	40 U	200	40	20	ug/kg	
205-99-2	Benzo(b)fluoranthene	40 U	200	40	20	ug/kg	
191-24-2	Benzo(g,h,i)perylene	40 U	200	40	20	ug/kg	
207-08-9	Benzo(k)fluoranthene	40 U	200	40	20	ug/kg	
218-01-9	Chrysene	40 U	200	40	20	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	40 U	200	40	20	ug/kg	
206-44-0	Fluoranthene	40 U	200	40	20	ug/kg	
86-73-7	Fluorene	40 U	200	40	20	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	40 U	200	40	20	ug/kg	
90-12-0	1-Methylnaphthalene	40 U	200	40	20	ug/kg	
91-57-6	2-Methylnaphthalene	40 U	200	40	20	ug/kg	
91-20-3	Naphthalene	40 U	200	40	20	ug/kg	
85-01-8	Phenanthrene	40 U	200	40	20	ug/kg	
129-00-0	Pyrene	40 U	200	40	20	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	83%		40-105%
321-60-8	2-Fluorobiphenyl	80%		43-107%
1718-51-0	Terphenyl-d14	99%		45-119%

U = Not detected LOD = Limit of Detection J = Indicates an estimated value
LOQ = Limit of Quantitation DL = Detection Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	TS862-13		
Lab Sample ID:	FA23258-27	**Date Sampled:**	03/30/15
Matrix:	SO - Soil	**Date Received:**	04/01/15
		Percent Solids:	82.8
Project:	HM-AZ PBR Holloman AFB; Alamogordo, NM		

Metals Analysis

Analyte	Result	LOQ	LOD	DL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Antimony [a]	1.2 J	11	2.6	0.68	mg/kg	10	04/03/15	04/03/15	LM	SW846 6010C [1]	SW846 3050B [3]
Arsenic [a]	1.5 J	5.3	2.6	1.1	mg/kg	10	04/03/15	04/03/15	LM	SW846 6010C [1]	SW846 3050B [3]
Copper [a]	3.6 J	13	1.1	0.53	mg/kg	10	04/03/15	04/03/15	LM	SW846 6010C [1]	SW846 3050B [3]
Lead [a]	2.3 J	11	2.1	0.53	mg/kg	10	04/03/15	04/06/15	LM	SW846 6010C [2]	SW846 3050B [3]
Zinc [a]	12.0	11	2.6	1.6	mg/kg	10	04/03/15	04/06/15	LM	SW846 6010C [2]	SW846 3050B [3]

(1) Instrument QC Batch: MA12317
(2) Instrument QC Batch: MA12320
(3) Prep QC Batch: MP28752

(a) Sample dilution required due to difficult matrix.

LOQ = Limit of Quantitation DL = Detection Limit U = Indicates a result < LOD
LOD = Limit of Detection J = Indicates a result > = DL (MDL) but < LOQ

Report of Analysis

Client Sample ID:	TS862-13A		
Lab Sample ID:	FA23258-28	**Date Sampled:**	03/30/15
Matrix:	SO - Soil	**Date Received:**	04/01/15
		Percent Solids:	82.8
Project:	HM-AZ PBR Holloman AFB; Alamogordo, NM		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Solids, Percent	82.8		%	1	04/02/15 17:01	JC	SM19 2540G

RL = Reporting Limit

Accutest Laboratories

Report of Analysis

Client Sample ID:	TS862-14		
Lab Sample ID:	FA23258-29	**Date Sampled:**	03/30/15
Matrix:	SO - Soil	**Date Received:**	04/01/15
Method:	SW846 8270D SW846 3550C	**Percent Solids:**	85.2
Project:	HM-AZ PBR Holloman AFB; Alamogordo, NM		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	L0681774.D	1	04/07/15	MV	04/03/15	OP55582	SL3632
Run #2							

	Initial Weight	Final Volume
Run #1	30.5 g	1.0 ml
Run #2		

BN PAH List

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
83-32-9	Acenaphthene	38 U	190	38	19	ug/kg	
208-96-8	Acenaphthylene	38 U	190	38	19	ug/kg	
120-12-7	Anthracene	38 U	190	38	19	ug/kg	
56-55-3	Benzo(a)anthracene	38 U	190	38	19	ug/kg	
50-32-8	Benzo(a)pyrene	38 U	190	38	19	ug/kg	
205-99-2	Benzo(b)fluoranthene	38 U	190	38	19	ug/kg	
191-24-2	Benzo(g,h,i)perylene	38 U	190	38	19	ug/kg	
207-08-9	Benzo(k)fluoranthene	38 U	190	38	19	ug/kg	
218-01-9	Chrysene	38 U	190	38	19	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	38 U	190	38	19	ug/kg	
206-44-0	Fluoranthene	38 U	190	38	19	ug/kg	
86-73-7	Fluorene	38 U	190	38	19	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	38 U	190	38	19	ug/kg	
90-12-0	1-Methylnaphthalene	38 U	190	38	19	ug/kg	
91-57-6	2-Methylnaphthalene	38 U	190	38	19	ug/kg	
91-20-3	Naphthalene	38 U	190	38	19	ug/kg	
85-01-8	Phenanthrene	38 U	190	38	19	ug/kg	
129-00-0	Pyrene	38 U	190	38	19	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	85%		40-105%
321-60-8	2-Fluorobiphenyl	80%		43-107%
1718-51-0	Terphenyl-d14	102%		45-119%

U = Not detected LOD = Limit of Detection J = Indicates an estimated value
LOQ = Limit of Quantitation DL = Detection Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	TS862-14		
Lab Sample ID:	FA23258-29	**Date Sampled:**	03/30/15
Matrix:	SO - Soil	**Date Received:**	04/01/15
		Percent Solids:	85.2
Project:	HM-AZ PBR Holloman AFB; Alamogordo, NM		

Metals Analysis

Analyte	Result	LOQ	LOD	DL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Antimony [a]	1.3 J	8.8	2.2	0.57	mg/kg	10	04/03/15	04/03/15	LM	SW846 6010C [1]	SW846 3050B [3]
Arsenic [a]	2.3 J	4.4	2.2	0.88	mg/kg	10	04/03/15	04/03/15	LM	SW846 6010C [1]	SW846 3050B [3]
Copper [a]	4.6 J	11	0.88	0.44	mg/kg	10	04/03/15	04/03/15	LM	SW846 6010C [1]	SW846 3050B [3]
Lead [a]	3.0 J	8.8	1.8	0.44	mg/kg	10	04/03/15	04/06/15	LM	SW846 6010C [2]	SW846 3050B [3]
Zinc [a]	14.2	8.8	2.2	1.3	mg/kg	10	04/03/15	04/06/15	LM	SW846 6010C [2]	SW846 3050B [3]

(1) Instrument QC Batch: MA12317
(2) Instrument QC Batch: MA12320
(3) Prep QC Batch: MP28752

(a) Sample dilution required due to difficult matrix.

LOQ = Limit of Quantitation
LOD = Limit of Detection
DL = Detection Limit
U = Indicates a result < LOD
J = Indicates a result > = DL (MDL) but < LOQ

Report of Analysis

Client Sample ID:	TS862-14A		
Lab Sample ID:	FA23258-30	**Date Sampled:**	03/30/15
Matrix:	SO - Soil	**Date Received:**	04/01/15
		Percent Solids:	86.7
Project:	HM-AZ PBR Holloman AFB; Alamogordo, NM		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Solids, Percent	86.7		%	1	04/02/15 17:01	JC	SM19 2540G

RL = Reporting Limit

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Report of Analysis

Client Sample ID:	TS862-15		
Lab Sample ID:	FA23258-31	**Date Sampled:**	03/30/15
Matrix:	SO - Soil	**Date Received:**	04/01/15
Method:	SW846 8270D SW846 3550C	**Percent Solids:**	82.1
Project:	HM-AZ PBR Holloman AFB; Alamogordo, NM		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	L0681775.D	1	04/07/15	MV	04/03/15	OP55582	SL3632
Run #2							

	Initial Weight	Final Volume
Run #1	30.0 g	1.0 ml
Run #2		

BN PAH List

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
83-32-9	Acenaphthene	41 U	200	41	20	ug/kg	
208-96-8	Acenaphthylene	41 U	200	41	20	ug/kg	
120-12-7	Anthracene	41 U	200	41	20	ug/kg	
56-55-3	Benzo(a)anthracene	41 U	200	41	20	ug/kg	
50-32-8	Benzo(a)pyrene	41 U	200	41	20	ug/kg	
205-99-2	Benzo(b)fluoranthene	41 U	200	41	20	ug/kg	
191-24-2	Benzo(g,h,i)perylene	41 U	200	41	20	ug/kg	
207-08-9	Benzo(k)fluoranthene	41 U	200	41	20	ug/kg	
218-01-9	Chrysene	41 U	200	41	20	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	41 U	200	41	20	ug/kg	
206-44-0	Fluoranthene	25.7	200	41	20	ug/kg	J
86-73-7	Fluorene	41 U	200	41	20	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	41 U	200	41	20	ug/kg	
90-12-0	1-Methylnaphthalene	41 U	200	41	20	ug/kg	
91-57-6	2-Methylnaphthalene	41 U	200	41	20	ug/kg	
91-20-3	Naphthalene	41 U	200	41	20	ug/kg	
85-01-8	Phenanthrene	41 U	200	41	20	ug/kg	
129-00-0	Pyrene	23.6	200	41	20	ug/kg	J

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	79%		40-105%
321-60-8	2-Fluorobiphenyl	78%		43-107%
1718-51-0	Terphenyl-d14	94%		45-119%

U = Not detected LOD = Limit of Detection J = Indicates an estimated value
LOQ = Limit of Quantitation DL = Detection Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	TS862-15		
Lab Sample ID:	FA23258-31	**Date Sampled:**	03/30/15
Matrix:	SO - Soil	**Date Received:**	04/01/15
		Percent Solids:	82.1
Project:	HM-AZ PBR Holloman AFB; Alamogordo, NM		

Metals Analysis

Analyte	Result	LOQ	LOD	DL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Antimony [a]	1.6 J	11	2.7	0.71	mg/kg	10	04/03/15	04/03/15	LM	SW846 6010C [1]	SW846 3050B [3]
Arsenic [a]	2.2 J	5.5	2.7	1.1	mg/kg	10	04/03/15	04/03/15	LM	SW846 6010C [1]	SW846 3050B [3]
Copper [a]	4.0 J	14	1.1	0.55	mg/kg	10	04/03/15	04/03/15	LM	SW846 6010C [1]	SW846 3050B [3]
Lead [a]	2.9 J	11	2.2	0.55	mg/kg	10	04/03/15	04/06/15	LM	SW846 6010C [2]	SW846 3050B [3]
Zinc [a]	12.7	11	2.7	1.6	mg/kg	10	04/03/15	04/06/15	LM	SW846 6010C [2]	SW846 3050B [3]

(1) Instrument QC Batch: MA12317
(2) Instrument QC Batch: MA12320
(3) Prep QC Batch: MP28752

(a) Sample dilution required due to difficult matrix.

LOQ = Limit of Quantitation DL = Detection Limit U = Indicates a result < LOD
LOD = Limit of Detection J = Indicates a result > = DL (MDL) but < LOQ

Report of Analysis

Client Sample ID:	TS862-15A		
Lab Sample ID:	FA23258-32	**Date Sampled:**	03/30/15
Matrix:	SO - Soil	**Date Received:**	04/01/15
		Percent Solids:	87.6
Project:	HM-AZ PBR Holloman AFB; Alamogordo, NM		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Solids, Percent	87.6		%	1	04/02/15 17:01	JC	SM19 2540G

RL = Reporting Limit

Accutest Laboratories

Report of Analysis

Client Sample ID:	TS862-16		
Lab Sample ID:	FA23258-33	**Date Sampled:**	03/30/15
Matrix:	SO - Soil	**Date Received:**	04/01/15
Method:	SW846 8270D SW846 3550C	**Percent Solids:**	81.0
Project:	HM-AZ PBR Holloman AFB; Alamogordo, NM		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	L0681743.D	1	04/06/15	MV	04/03/15	OP55582	SL3631
Run #2							

	Initial Weight	Final Volume
Run #1	30.4 g	1.0 ml
Run #2		

BN PAH List

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
83-32-9	Acenaphthene	41 U	200	41	20	ug/kg	
208-96-8	Acenaphthylene	41 U	200	41	20	ug/kg	
120-12-7	Anthracene	41 U	200	41	20	ug/kg	
56-55-3	Benzo(a)anthracene	41 U	200	41	20	ug/kg	
50-32-8	Benzo(a)pyrene	41 U	200	41	20	ug/kg	
205-99-2	Benzo(b)fluoranthene	41 U	200	41	20	ug/kg	
191-24-2	Benzo(g,h,i)perylene	41 U	200	41	20	ug/kg	
207-08-9	Benzo(k)fluoranthene	41 U	200	41	20	ug/kg	
218-01-9	Chrysene	41 U	200	41	20	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	41 U	200	41	20	ug/kg	
206-44-0	Fluoranthene	41 U	200	41	20	ug/kg	
86-73-7	Fluorene	41 U	200	41	20	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	41 U	200	41	20	ug/kg	
90-12-0	1-Methylnaphthalene	41 U	200	41	20	ug/kg	
91-57-6	2-Methylnaphthalene	41 U	200	41	20	ug/kg	
91-20-3	Naphthalene	41 U	200	41	20	ug/kg	
85-01-8	Phenanthrene	41 U	200	41	20	ug/kg	
129-00-0	Pyrene	41 U	200	41	20	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	69%		40-105%
321-60-8	2-Fluorobiphenyl	71%		43-107%
1718-51-0	Terphenyl-d14	85%		45-119%

U = Not detected LOD = Limit of Detection J = Indicates an estimated value
LOQ = Limit of Quantitation DL = Detection Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	TS862-16		
Lab Sample ID:	FA23258-33	**Date Sampled:**	03/30/15
Matrix:	SO - Soil	**Date Received:**	04/01/15
		Percent Solids:	81.0
Project:	HM-AZ PBR Holloman AFB; Alamogordo, NM		

Metals Analysis

Analyte	Result	LOQ	LOD	DL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Antimony [a]	0.88 J	12	3.0	0.79	mg/kg	10	04/03/15	04/03/15	LM	SW846 6010C [1]	SW846 3050B [3]
Arsenic [a]	3.0 U	6.1	3.0	1.2	mg/kg	10	04/03/15	04/03/15	LM	SW846 6010C [1]	SW846 3050B [3]
Copper [a]	1.9 J	15	1.2	0.61	mg/kg	10	04/03/15	04/03/15	LM	SW846 6010C [1]	SW846 3050B [3]
Lead [a]	1.2 J	12	2.4	0.61	mg/kg	10	04/03/15	04/06/15	LM	SW846 6010C [2]	SW846 3050B [3]
Zinc [a]	4.0 J	12	3.0	1.8	mg/kg	10	04/03/15	04/06/15	LM	SW846 6010C [2]	SW846 3050B [3]

(1) Instrument QC Batch: MA12317
(2) Instrument QC Batch: MA12320
(3) Prep QC Batch: MP28752

(a) Sample dilution required due to difficult matrix.

LOQ = Limit of Quantitation DL = Detection Limit U = Indicates a result < LOD
LOD = Limit of Detection J = Indicates a result > = DL (MDL) but < LOQ

Report of Analysis

Client Sample ID:	TS862-16A		
Lab Sample ID:	FA23258-34	**Date Sampled:**	03/30/15
Matrix:	SO - Soil	**Date Received:**	04/01/15
		Percent Solids:	76.2
Project:	HM-AZ PBR Holloman AFB; Alamogordo, NM		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Solids, Percent	76.2		%	1	04/02/15 17:01	JC	SM19 2540G

RL = Reporting Limit

Accutest Laboratories

Report of Analysis

Client Sample ID:	TS862-17		
Lab Sample ID:	FA23258-35	**Date Sampled:**	03/30/15
Matrix:	SO - Soil	**Date Received:**	04/01/15
Method:	SW846 8270D SW846 3550C	**Percent Solids:**	84.2
Project:	HM-AZ PBR Holloman AFB; Alamogordo, NM		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	X039451.D	1	04/08/15	MV	04/03/15	OP55584	SX1833
Run #2							

	Initial Weight	Final Volume
Run #1	30.3 g	1.0 ml
Run #2		

BN PAH List

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
83-32-9	Acenaphthene	39 U	200	39	20	ug/kg	
208-96-8	Acenaphthylene	39 U	200	39	20	ug/kg	
120-12-7	Anthracene	39 U	200	39	20	ug/kg	
56-55-3	Benzo(a)anthracene	39 U	200	39	20	ug/kg	
50-32-8	Benzo(a)pyrene	39 U	200	39	20	ug/kg	
205-99-2	Benzo(b)fluoranthene	39 U	200	39	20	ug/kg	
191-24-2	Benzo(g,h,i)perylene	39 U	200	39	20	ug/kg	
207-08-9	Benzo(k)fluoranthene	39 U	200	39	20	ug/kg	
218-01-9	Chrysene	39 U	200	39	20	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	39 U	200	39	20	ug/kg	
206-44-0	Fluoranthene	39 U	200	39	20	ug/kg	
86-73-7	Fluorene	39 U	200	39	20	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	39 U	200	39	20	ug/kg	
90-12-0	1-Methylnaphthalene	39 U	200	39	20	ug/kg	
91-57-6	2-Methylnaphthalene	39 U	200	39	20	ug/kg	
91-20-3	Naphthalene	39 U	200	39	20	ug/kg	
85-01-8	Phenanthrene	39 U	200	39	20	ug/kg	
129-00-0	Pyrene	39 U	200	39	20	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	70%		40-105%
321-60-8	2-Fluorobiphenyl	68%		43-107%
1718-51-0	Terphenyl-d14	91%		45-119%

U = Not detected LOD = Limit of Detection J = Indicates an estimated value
LOQ = Limit of Quantitation DL = Detection Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	TS862-17		
Lab Sample ID:	FA23258-35	**Date Sampled:**	03/30/15
Matrix:	SO - Soil	**Date Received:**	04/01/15
		Percent Solids:	84.2
Project:	HM-AZ PBR Holloman AFB; Alamogordo, NM		

Metals Analysis

Analyte	Result	LOQ	LOD	DL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Antimony [a]	2.0 U	8.2	2.0	0.53	mg/kg	10	04/03/15	04/03/15	LM	SW846 6010C [1]	SW846 3050B [2]
Arsenic [a]	2.0 U	4.1	2.0	0.82	mg/kg	10	04/03/15	04/03/15	LM	SW846 6010C [1]	SW846 3050B [2]
Copper [a]	1.2 J	10	0.82	0.41	mg/kg	10	04/03/15	04/03/15	LM	SW846 6010C [1]	SW846 3050B [2]
Lead [a]	1.6 U	8.2	1.6	0.41	mg/kg	10	04/03/15	04/03/15	LM	SW846 6010C [1]	SW846 3050B [2]
Zinc [a]	2.2 J	8.2	2.0	1.2	mg/kg	10	04/03/15	04/03/15	LM	SW846 6010C [1]	SW846 3050B [2]

(1) Instrument QC Batch: MA12318
(2) Prep QC Batch: MP28755

(a) Sample dilution required due to difficult matrix.

LOQ = Limit of Quantitation DL = Detection Limit U = Indicates a result < LOD
LOD = Limit of Detection J = Indicates a result > = DL (MDL) but < LOQ

Report of Analysis

Client Sample ID:	TS862-17A		
Lab Sample ID:	FA23258-36	**Date Sampled:**	03/30/15
Matrix:	SO - Soil	**Date Received:**	04/01/15
		Percent Solids:	82.9
Project:	HM-AZ PBR Holloman AFB; Alamogordo, NM		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Solids, Percent	82.9		%	1	04/02/15 17:01	JC	SM19 2540G

RL = Reporting Limit

Accutest Laboratories

Report of Analysis

Client Sample ID:	TS862-18		
Lab Sample ID:	FA23258-37	**Date Sampled:**	03/30/15
Matrix:	SO - Soil	**Date Received:**	04/01/15
Method:	SW846 8270D SW846 3550C	**Percent Solids:**	81.9
Project:	HM-AZ PBR Holloman AFB; Alamogordo, NM		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	X039423.D	1	04/07/15	MV	04/03/15	OP55584	SX1832
Run #2							

	Initial Weight	Final Volume
Run #1	30.2 g	1.0 ml
Run #2		

BN PAH List

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
83-32-9	Acenaphthene	40 U	200	40	20	ug/kg	
208-96-8	Acenaphthylene	40 U	200	40	20	ug/kg	
120-12-7	Anthracene	40 U	200	40	20	ug/kg	
56-55-3	Benzo(a)anthracene	40 U	200	40	20	ug/kg	
50-32-8	Benzo(a)pyrene	40 U	200	40	20	ug/kg	
205-99-2	Benzo(b)fluoranthene	40 U	200	40	20	ug/kg	
191-24-2	Benzo(g,h,i)perylene	40 U	200	40	20	ug/kg	
207-08-9	Benzo(k)fluoranthene	40 U	200	40	20	ug/kg	
218-01-9	Chrysene	40 U	200	40	20	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	40 U	200	40	20	ug/kg	
206-44-0	Fluoranthene	21.4	200	40	20	ug/kg	J
86-73-7	Fluorene	40 U	200	40	20	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	40 U	200	40	20	ug/kg	
90-12-0	1-Methylnaphthalene	40 U	200	40	20	ug/kg	
91-57-6	2-Methylnaphthalene	40 U	200	40	20	ug/kg	
91-20-3	Naphthalene	40 U	200	40	20	ug/kg	
85-01-8	Phenanthrene	40 U	200	40	20	ug/kg	
129-00-0	Pyrene	24.1	200	40	20	ug/kg	J

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	76%		40-105%
321-60-8	2-Fluorobiphenyl	80%		43-107%
1718-51-0	Terphenyl-d14	102%		45-119%

U = Not detected LOD = Limit of Detection J = Indicates an estimated value
LOQ = Limit of Quantitation DL = Detection Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	TS862-18		
Lab Sample ID:	FA23258-37	**Date Sampled:**	03/30/15
Matrix:	SO - Soil	**Date Received:**	04/01/15
		Percent Solids:	81.9
Project:	HM-AZ PBR Holloman AFB; Alamogordo, NM		

Metals Analysis

Analyte	Result	LOQ	LOD	DL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Antimony [a]	2.3 U	9.3	2.3	0.60	mg/kg	10	04/03/15	04/03/15	LM	SW846 6010C [1]	SW846 3050B [2]
Arsenic [a]	1.0 J	4.6	2.3	0.93	mg/kg	10	04/03/15	04/03/15	LM	SW846 6010C [1]	SW846 3050B [2]
Copper [a]	3.7 J	12	0.93	0.46	mg/kg	10	04/03/15	04/03/15	LM	SW846 6010C [1]	SW846 3050B [2]
Lead [a]	0.73 J	9.3	1.9	0.46	mg/kg	10	04/03/15	04/03/15	LM	SW846 6010C [1]	SW846 3050B [2]
Zinc [a]	10.6	9.3	2.3	1.4	mg/kg	10	04/03/15	04/03/15	LM	SW846 6010C [1]	SW846 3050B [2]

(1) Instrument QC Batch: MA12318
(2) Prep QC Batch: MP28755

(a) Sample dilution required due to difficult matrix.

LOQ = Limit of Quantitation DL = Detection Limit U = Indicates a result < LOD
LOD = Limit of Detection J = Indicates a result > = DL (MDL) but < LOQ

Report of Analysis

Client Sample ID:	TS862-18A		
Lab Sample ID:	FA23258-38	**Date Sampled:**	03/30/15
Matrix:	SO - Soil	**Date Received:**	04/01/15
		Percent Solids:	83.3
Project:	HM-AZ PBR Holloman AFB; Alamogordo, NM		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Solids, Percent	83.3		%	1	04/02/15 17:01	JC	SM19 2540G

RL = Reporting Limit

Accutest Laboratories

Report of Analysis

Client Sample ID:	TS862-19		
Lab Sample ID:	FA23258-39	**Date Sampled:**	03/30/15
Matrix:	SO - Soil	**Date Received:**	04/01/15
Method:	SW846 8270D SW846 3550C	**Percent Solids:**	80.0
Project:	HM-AZ PBR Holloman AFB; Alamogordo, NM		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	X039424.D	1	04/07/15	MV	04/03/15	OP55584	SX1832
Run #2							

	Initial Weight	Final Volume
Run #1	30.2 g	1.0 ml
Run #2		

BN PAH List

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
83-32-9	Acenaphthene	41 U	210	41	21	ug/kg	
208-96-8	Acenaphthylene	41 U	210	41	21	ug/kg	
120-12-7	Anthracene	41 U	210	41	21	ug/kg	
56-55-3	Benzo(a)anthracene	41 U	210	41	21	ug/kg	
50-32-8	Benzo(a)pyrene	41 U	210	41	21	ug/kg	
205-99-2	Benzo(b)fluoranthene	41 U	210	41	21	ug/kg	
191-24-2	Benzo(g,h,i)perylene	41 U	210	41	21	ug/kg	
207-08-9	Benzo(k)fluoranthene	41 U	210	41	21	ug/kg	
218-01-9	Chrysene	41 U	210	41	21	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	41 U	210	41	21	ug/kg	
206-44-0	Fluoranthene	41 U	210	41	21	ug/kg	
86-73-7	Fluorene	41 U	210	41	21	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	41 U	210	41	21	ug/kg	
90-12-0	1-Methylnaphthalene	41 U	210	41	21	ug/kg	
91-57-6	2-Methylnaphthalene	41 U	210	41	21	ug/kg	
91-20-3	Naphthalene	41 U	210	41	21	ug/kg	
85-01-8	Phenanthrene	41 U	210	41	21	ug/kg	
129-00-0	Pyrene	41 U	210	41	21	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	60%		40-105%
321-60-8	2-Fluorobiphenyl	63%		43-107%
1718-51-0	Terphenyl-d14	87%		45-119%

U = Not detected LOD = Limit of Detection J = Indicates an estimated value
LOQ = Limit of Quantitation DL = Detection Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	TS862-19		
Lab Sample ID:	FA23258-39	**Date Sampled:**	03/30/15
Matrix:	SO - Soil	**Date Received:**	04/01/15
		Percent Solids:	80.0
Project:	HM-AZ PBR Holloman AFB; Alamogordo, NM		

Metals Analysis

Analyte	Result	LOQ	LOD	DL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Antimony [a]	2.4 U	9.5	2.4	0.62	mg/kg	10	04/03/15	04/03/15	LM	SW846 6010C [1]	SW846 3050B [2]
Arsenic [a]	1.1 J	4.7	2.4	0.95	mg/kg	10	04/03/15	04/03/15	LM	SW846 6010C [1]	SW846 3050B [2]
Copper [a]	3.4 J	12	0.95	0.47	mg/kg	10	04/03/15	04/03/15	LM	SW846 6010C [1]	SW846 3050B [2]
Lead [a]	1.9 U	9.5	1.9	0.47	mg/kg	10	04/03/15	04/03/15	LM	SW846 6010C [1]	SW846 3050B [2]
Zinc [a]	10.5	9.5	2.4	1.4	mg/kg	10	04/03/15	04/03/15	LM	SW846 6010C [1]	SW846 3050B [2]

(1) Instrument QC Batch: MA12318
(2) Prep QC Batch: MP28755

(a) Sample dilution required due to difficult matrix.

LOQ = Limit of Quantitation DL = Detection Limit U = Indicates a result < LOD
LOD = Limit of Detection J = Indicates a result > = DL (MDL) but < LOQ

Report of Analysis

Client Sample ID:	TS862-19A		
Lab Sample ID:	FA23258-40	**Date Sampled:**	03/30/15
Matrix:	SO - Soil	**Date Received:**	04/01/15
		Percent Solids:	81.0
Project:	HM-AZ PBR Holloman AFB; Alamogordo, NM		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Solids, Percent	81		%	1	04/02/15 17:18	JC	SM19 2540G

RL = Reporting Limit

Accutest Laboratories

Report of Analysis

Client Sample ID:	TS862-20		
Lab Sample ID:	FA23258-41	**Date Sampled:**	03/30/15
Matrix:	SO - Soil	**Date Received:**	04/01/15
Method:	SW846 8270D SW846 3550C	**Percent Solids:**	78.5
Project:	HM-AZ PBR Holloman AFB; Alamogordo, NM		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	X039425.D	1	04/07/15	MV	04/03/15	OP55584	SX1832
Run #2							

	Initial Weight	Final Volume
Run #1	29.9 g	1.0 ml
Run #2		

BN PAH List

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
83-32-9	Acenaphthene	43 U	210	43	21	ug/kg	
208-96-8	Acenaphthylene	43 U	210	43	21	ug/kg	
120-12-7	Anthracene	43 U	210	43	21	ug/kg	
56-55-3	Benzo(a)anthracene	43 U	210	43	21	ug/kg	
50-32-8	Benzo(a)pyrene	43 U	210	43	21	ug/kg	
205-99-2	Benzo(b)fluoranthene	43 U	210	43	21	ug/kg	
191-24-2	Benzo(g,h,i)perylene	43 U	210	43	21	ug/kg	
207-08-9	Benzo(k)fluoranthene	43 U	210	43	21	ug/kg	
218-01-9	Chrysene	43 U	210	43	21	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	43 U	210	43	21	ug/kg	
206-44-0	Fluoranthene	43 U	210	43	21	ug/kg	
86-73-7	Fluorene	43 U	210	43	21	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	43 U	210	43	21	ug/kg	
90-12-0	1-Methylnaphthalene	43 U	210	43	21	ug/kg	
91-57-6	2-Methylnaphthalene	43 U	210	43	21	ug/kg	
91-20-3	Naphthalene	43 U	210	43	21	ug/kg	
85-01-8	Phenanthrene	43 U	210	43	21	ug/kg	
129-00-0	Pyrene	43 U	210	43	21	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	77%		40-105%
321-60-8	2-Fluorobiphenyl	78%		43-107%
1718-51-0	Terphenyl-d14	108%		45-119%

U = Not detected LOD = Limit of Detection J = Indicates an estimated value
LOQ = Limit of Quantitation DL = Detection Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	TS862-20		
Lab Sample ID:	FA23258-41	**Date Sampled:**	03/30/15
Matrix:	SO - Soil	**Date Received:**	04/01/15
		Percent Solids:	78.5
Project:	HM-AZ PBR Holloman AFB; Alamogordo, NM		

Metals Analysis

Analyte	Result	LOQ	LOD	DL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Antimony [a]	2.9 U	12	2.9	0.75	mg/kg	10	04/03/15	04/03/15	LM	SW846 6010C [1]	SW846 3050B [2]
Arsenic [a]	1.5 J	5.8	2.9	1.2	mg/kg	10	04/03/15	04/03/15	LM	SW846 6010C [1]	SW846 3050B [2]
Copper [a]	4.5 J	14	1.2	0.58	mg/kg	10	04/03/15	04/03/15	LM	SW846 6010C [1]	SW846 3050B [2]
Lead [a]	1.8 J	12	2.3	0.58	mg/kg	10	04/03/15	04/03/15	LM	SW846 6010C [1]	SW846 3050B [2]
Zinc [a]	17.8	12	2.9	1.7	mg/kg	10	04/03/15	04/03/15	LM	SW846 6010C [1]	SW846 3050B [2]

(1) Instrument QC Batch: MA12318
(2) Prep QC Batch: MP28755

(a) Sample dilution required due to difficult matrix.

LOQ = Limit of Quantitation DL = Detection Limit U = Indicates a result < LOD
LOD = Limit of Detection J = Indicates a result > = DL (MDL) but < LOQ

Report of Analysis

Client Sample ID:	TS862-20A		
Lab Sample ID:	FA23258-42	**Date Sampled:**	03/30/15
Matrix:	SO - Soil	**Date Received:**	04/01/15
		Percent Solids:	83.1
Project:	HM-AZ PBR Holloman AFB; Alamogordo, NM		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Solids, Percent	83.1		%	1	04/02/15 16:34	JC	SM19 2540G

RL = Reporting Limit

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Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody
- QC Evaluation: DOD QSM5 Limits

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Accutest Laboratories Southeast
Chain of Custody

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www.accutest.com

ACCUTEST JOB # : FA23258 PAGE 1 OF 4

Accutest Quote # | SKIFF #

Client / Reporting Information

Company Name: FPM Remediations
Address: 584 Phoenix Dr
City: Rome State: NY Zip: 13441
Project Contact: Peter Corigliano E-mail
Phone # 315 336-7721
Sampler(s) Name(s) (Printed)
Sampler 1: Trevor Schlossnagle Sampler 2: Brett Evans

Project Information

Project Name: Holloman AFB
Street
City Alamogordo State NM
Project # 1029-13-01
Fax #
Client Purchase Order #

Analytical Information

Matrix Codes: DW - Drinking Water; GW - Ground Water; WW - Water; SW - Surface Water; SO - Soil; SL- Sludge; OI - Oil; LIQ - Other Liquid; AIR - Air

Accutest Sample #	Field ID / Point of Collection	COLLECTION DATE	TIME	SAMPLED BY:	MATRIX	TOTAL # OF BOTTLES	OTHER	NONE	HCl	NaOH	HNO3	H2SO4	NAOH+ZNAC	DI WATER	MEOH	Metals	PAH	SPLP Metals/PAH	LAB USE ONLY
1	TS862-1	3/29	1025	TS	SO	1		/								/	/	/	
2	TS862-1a	3/29	1035	TS	SO	1		/								/	/	/	
3	TS862-2	3/29	1045	TS	SO	1		/								/	/	/	
4	TS862-2a	3/29	1055	BE	SO	1		/								/	/	/	
(5)	TS862-3	3/29	1115	BE	SO	1		/								/	/	/	
	TS862-3MS	3/29	1115	BE	SO	1		/								/	/	/	
	TS862-3MSD	3/29	1115	BE	SO	1		/								/	/	/	
6	TS862-3a	3/29	1125	TS	SO	1		/								/	/	/	
7	TS862-4	3/29	1155	TS	SO	1		/								/	/	/	
8	TS862-104	3/29	1200	BE	SO	1		/								/	/	/	
9	TS862-4a	3/29	1205	TS	SO	1		/								/	/	/	
10	TS862-5	3/29	1220	TS	SO	1		/								/	/	/	

Turnaround Time (Business days)

Std. 10 Business Days
X 7 Day *RUSH*
5 Day *RUSH*
3 Day *EMERGENCY*
2 Day *EMERGENCY*
1 Day *EMERGENCY*
Other
Approved By: / Date/Rush Code:
Emergency or Rush T/A Data Available VIA Email or Lablink

Data Deliverable Information

- [ ] COMMERCIAL "A" (RESULTS ONLY)
- [ ] COMMERCIAL "B" (RESULTS PLUS QC)
- [ ] REDT1 (EPA LEVEL 3)
- [ ] FULLT1 (EPA LEVEL 4)
- [ ] EDD'S

Comments / Remarks

HOLD "A" LABEL SAMPLES
HOLD SPLP

Sample Custody must be documented below each time samples change possession, including courier delivery.

Relinquished by Sampler/Affiliation	Date Time:	Received By/Affiliation	Relinquished By/Affiliation	Date Time:	Received By/Affiliation
1	3/31 1400	2 FP	3 FP 04-01-15	915	4
Relinquished by/Affiliation	Date Time:	Received By/Affiliation	Relinquished By/Affiliation	Date Time:	Received By/Affiliation
5		6	7		8

Lab Use Only : Custody Seal in Place: Y N Temp Blank Provided: Y N Preserved Where Applicable: Y N Total # of Coolers: ____ Cooler Temperature (s) Celsius: 26, 24

5.1 5

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Chain of Custody

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ACCUTEST JOB #: FA23258 PAGE 2 OF 4

Accutest Quote # | SKIFF #

Client / Reporting Information

Company Name: FPM Remediations
Address: 584 Phoenix Dr
City: Rome State: NY Zip: 13441
Project Contact: Peter Corigliano E-mail
Phone # 315 336-7721
Sampler(s) Name(s) (Printed)
Sampler 1: Trevor Schlossnagle Sampler 2: Brett Evans

Project Information

Project Name: Holloman AFB
Street
City Alamogordo State NM
Project # 1029-13-01
Fax #
Client Purchase Order #

Analytical Information

Matrix Codes: DW - Drinking Water; GW - Ground Water; WW - Water; SW - Surface Water; SO - Soil; SL- Sludge; OI - Oil; LIQ - Other Liquid; AIR - Air

Accutest Sample #	Field ID / Point of Collection	COLLECTION DATE	TIME	SAMPLED BY:	MATRIX	TOTAL # OF BOTTLES	OTHER	NONE	HCl	NaOH	HNO3	H2SO4	NaOH+ZnAc	DI WATER	MEOH	Metals	PAH	SPLP Metals/PAH	LAB USE ONLY
11	TS862-5a	3/29	1230	TS	SO	1		✓								✓	✓	✓	
12	TS862-6	3/29	1240	BE	SO	1		✓								✓	✓	✓	
13	TS862-6a	3/29	1250	BE	SO	1		✓								✓	✓	✓	
14	TS862-EB1	3/29	1300	BE	W	3		2	1							1	2		
15	TS862-7	3/30	950	BE	SO	1		✓								✓	✓	✓	
16	TS862-7a	3/30	1010	TS	SO	1		✓								✓	✓	✓	
17	TS862-8	3/30	1020	BE	SO	1		✓								✓	✓	✓	
18	TS862-8a	3/30	1030	TS	SO	1		✓								✓	✓	✓	
19	TS862-9	3/30	1040	BE	SO	1		✓								✓	✓	✓	
20	TS862-9a	3/30	1050	BE	SO	1		✓								✓	✓	✓	
21	TS862-10	3/30	1100	TS	SO	1		✓								✓	✓	✓	
22	TS862-11	3/30	1110	TS	SO	1		✓								✓	✓	✓	

Turnaround Time (Business days)

Std. 10 Business Days
X 7 Day RUSH
5 Day RUSH
3 Day EMERGENCY
2 Day EMERGENCY
1 Day EMERGENCY
Other
Approved By: / Date/Rush Code:
Emergency or Rush T/A Data Available VIA Email or Lablink

Data Deliverable Information

- [ ] COMMERCIAL "A" (RESULTS ONLY)
- [ ] COMMERCIAL "B" (RESULTS PLUS QC)
- [ ] REDT1 (EPA LEVEL 3)
- [ ] FULLT1 (EPA LEVEL 4)
- [ ] EDD'S

Comments / Remarks

HOLD "A" LABEL SAMPLES
HOLD SPLP

Sample Custody must be documented below each time samples change possession, including courier delivery.

Relinquished by Sampler/Affiliation	Date Time:	Received By/Affiliation	Relinquished By/Affiliation	Date Time:	Received By/Affiliation
1	3/31 1400	2	3 04-01-15	915	4
Relinquished by/Affiliation	Date Time:	Received By/Affiliation	Relinquished By/Affiliation	Date Time:	Received By/Affiliation
5		6	7		8

Lab Use Only: Custody Seal in Place: Y N Temp Blank Provided: Y N Preserved Where Applicable: Y N Total # of Coolers: Cooler Temperature (s) Celsius:

5.1 5

FA23258: Chain of Custody
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ACCUTEST JOB #: FA23258 PAGE 3 OF 4

Accutest Quote # | SKIFF #

Client / Reporting Information

Company Name: FPM Remediations
Address: 584 Phoenix Dr
City: Rome State: NY Zip: 13441
Project Contact: Peter Corigliano E-mail
Phone # 315 336-7721
Sampler(s) Name(s) (Printed)
Sampler 1: Trevor Schlossnagle Sampler 2: Brett Evans

Project Information

Project Name: Holloman AFB
Street
City Alamogordo State NM
Project # 1029-13-01
Fax #
Client Purchase Order #

Analytical Information

Matrix Codes: DW - Drinking Water; GW - Ground Water; WW - Water; SW - Surface Water; SO - Soil; SL- Sludge; OI - Oil; LIQ - Other Liquid; AIR - Air

Accutest Sample #	Field ID / Point of Collection	COLLECTION DATE	TIME	SAMPLED BY:	MATRIX	TOTAL # OF BOTTLES	OTHER	NONE	HCl	NaOH	HNO3	H2SO4	NAOH+ZNAC	DI WATER	MEOH	Metals	PAH	SPLP Metals/PAH	LAB USE ONLY
23	TS862-10	3/30	955	TS	SO	1		/								/	/	/	
24	TS862-11a	3/30	1120	TS	SO	1		/								/	/	/	
25	TS862-12	3/30	1130	TS	SO	1		/								/	/	/	
26	TS862-12a	3/30	1140	TS	SO	1		/								/	/	/	
27	TS862-13	3/30	1200	TS	SO	1		/								/	/	/	
28	TS862-13a	3/30	1215	TS	SO	1		/								/	/	/	
29	TS862-14	3/30	1230	BE	SO	1		/								/	/	/	
30	TS862-14a	3/30	1245	BE	SO	1		/								/	/	/	
31	TS862-15	3/30	1300	BE	SO	1		/								/	/	/	
32	TS862-15a	3/30	1315	BE	SO	1		/								/	/	/	
33	TS862-16	3/30	1330	BE	SO	1		/								/	/	/	
34	TS862-16a	3/30	1345	BE	SO	1		/								/	/	/	

Turnaround Time (Business days)

Std. 10 Business Days — Approved By: / Date/Rush Code:
X 7 Day *RUSH*
5 Day *RUSH*
3 Day *EMERGENCY*
2 Day *EMERGENCY*
1 Day *EMERGENCY*
Other
Emergency or Rush T/A Data Available VIA Email or Lablink

Data Deliverable Information

- ☐ COMMERCIAL "A" (RESULTS ONLY)
- ☐ COMMERCIAL "B" (RESULTS PLUS QC)
- ☐ REDT1 (EPA LEVEL 3)
- ☐ FULLT1 (EPA LEVEL 4)
- ☐ EDD'S

Comments / Remarks

HOLD "A" LABEL SAMPLES
HOLD SPLP

Sample Custody must be documented below each time samples change possession, including courier delivery.

Relinquished by Sampler/Affiliation	Date Time:	Received By/Affiliation	Relinquished By/Affiliation	Date Time:	Received By/Affiliation
1	3/31 1400	2	3 FP 04-01-15	915	4
Relinquished by/Affiliation	Date Time:	Received By/Affiliation	Relinquished By/Affiliation	Date Time:	Received By/Affiliation
5		6	7		8

Lab Use Only: Custody Seal in Place: Y N Temp Blank Provided: Y N Preserved Where Applicable: Y N Total # of Coolers:____ Cooler Temperature (s) Celsius:_____

5.1 5

FA23258: Chain of Custody
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ACCUTEST JOB # : PAGE 4 OF 4

Accutest Quote # | SKIFF #

Client / Reporting Information

Company Name: FPM Remediations
Address: 584 Phoenix Dr
City: Rome State: NY Zip: 13441
Project Contact: Peter Corigliano E-mail
Phone # 315 336-7721
Sampler(s) Name(s) (Printed)
Sampler 1: Trevor Schlossnagle Sampler 2: Brett Evans

Project Information

Project Name: Holloman AFB
Street
City Alamogordo State NM
Project # 1029-13-01
Fax #
Client Purchase Order #

Analytical Information

Matrix Codes: DW - Drinking Water; GW - Ground Water; WW - Water; SW - Surface Water; SO - Soil; SL- Sludge; OI - Oil; LIQ - Other Liquid; AIR - Air

Accutest Sample #	Field ID / Point of Collection	Collection DATE	Collection TIME	SAMPLED BY:	MATRIX	TOTAL # OF BOTTLES	OTHER	NONE	HCl	NaOH	HNO3	H2SO4	NAOH+ZNAC	DI WATER	MEOH	Metals	PAH	SPLP Metals/PAH	LAB USE ONLY
35	TS862-17	3/30	1400	TS	SO	1		/								/	/	/	
36	TS862-17a	3/30	1415	TS	SO	1		/								/	/	/	
37	TS862-18	3/30	1430	TS	SO	1		/								/	/	/	
38	TS862-18a	3/30	1445	TS	SO	1		/								/	/	/	
39	TS862-19	3/30	1500	BE	SO	1		/								/	/	/	
40	TS862-19a	3/30	1515	BE	SO	1		/								/	/	/	
41	TS862-20	3/30	1530	BE	SO	1		/								/	/	/	
42	TS862-20a	3/30	1545	BE	SO	1		/								/	/	/	

Turnaround Time (Business days)

Std. 10 Business Days
X 7 Day *RUSH*
5 Day *RUSH*
3 Day *EMERGENCY*
2 Day *EMERGENCY*
1 Day *EMERGENCY*
Other
Emergency or Rush T/A Data Available VIA Email or Lablink

Approved By: / Date/Rush Code:

Data Deliverable Information

- [ ] COMMERCIAL "A" (RESULTS ONLY)
- [ ] COMMERCIAL "B" (RESULTS PLUS QC)
- [ ] REDT1 (EPA LEVEL 3)
- [ ] FULLT1 (EPA LEVEL 4)
- [ ] EDD'S

Comments / Remarks

HOLD "A" LABEL SAMPLES
HOLD SPLP

Sample Custody must be documented below each time samples change possession, including courier delivery.

Relinquished by Sampler/Affiliation	Date Time:	Received By/Affiliation	Relinquished By/Affiliation	Date Time:	Received By/Affiliation
1	3/31 1900	2 FP	3 FP 04-01-15	915	4
Relinquished by/Affiliation	Date Time:	Received By/Affiliation	Relinquished By/Affiliation	Date Time:	Received By/Affiliation
5		6	7		8

Lab Use Only : Custody Seal in Place: Y N Temp Blank Provided: Y N Preserved Where Applicable: Y N Total # of Coolers:____ Cooler Temperature (s) Celsius:_____

5.1 5

FA23258: Chain of Custody
Page 4 of 6

ACCUTEST LABORATORIES SAMPLE RECEIPT CONFIRMATION

ACCUTEST'S JOB NUMBER: FA23258 CLIENT: FPM PROJECT: Holloman AFB

DATE/TIME RECEIVED: 04-01-15 915 {MM/DD/YY 24:00} NUMBER OF COOLERS RECEIVED: 2

METHOD OF DELIVERY: (FEDEX) UPS ACCUTEST COURIER DELIVERY OTHER:

AIRBILL NUMBERS: 8066 1758 1400

COOLER INFORMATION

- [ ] CUSTODY SEAL NOT PRESENT OR NOT INTACT
- [ ] CHAIN OF CUSTODY NOT RECEIVED (COC)
- [ ] ANALYSIS REQUESTED IS UNCLEAR OR MISSING
- [ ] SAMPLE DATES OR TIMES UNCLEAR OR MISSING
- [ ] TEMPERATURE CRITERIA NOT MET

TRIP BLANK INFORMATION

- [ ] TRIP BLANK PROVIDED
- [x] TRIP BLANK NOT PROVIDED
- [x] TRIP BLANK NOT ON COC
- [ ] TRIP BLANK INTACT
- [ ] TRIP BLANK NOT INTACT
- [ ] RECEIVED WATER TRIP BLANK
- [ ] RECEIVED SOIL TRIP BLANK

MISC. INFORMATION

NUMBER OF ENCORES ? 25-GRAM_____ 5-GRAM_____

NUMBER OF 5035 FIELD KITS ? _____

NUMBER OF LAB FILTERED METALS ? _____

TEMPERATURE INFORMATION

- [ ] IR THERM ID 1 CORR. FACTOR -0.2
- [ ] OBSERVED TEMPS: 2.8 2.6
- [ ] CORRECTED TEMPS: 2.6 2.4

SAMPLE INFORMATION

- [ ] INCORRECT NUMBER OF CONTAINERS USED
- [ ] SAMPLE RECEIVED IMPROPERLY PRESERVED
- [ ] INSUFFICIENT VOLUME FOR ANALYSIS
- [ ] DATES/TIMES ON COC DO NOT MATCH SAMPLE LABEL
- [ ] ID'S ON COC DO NOT MATCH LABEL
- [ ] VOC VIALS HAVE HEADSPACE (MACRO BUBBLES)
- [ ] BOTTLES RECEIVED BUT ANALYSIS NOT REQUESTED
- [ ] NO BOTTLES RECEIVED FOR ANALYSIS REQUESTED
- [ ] UNCLEAR FILTERING OR COMPOSITING INSTRUCTIONS
- [ ] SAMPLE CONTAINER(S) RECEIVED BROKEN
- [ ] 5035 FIELD KITS NOT RECEIVED WITHIN 48 HOURS
- [ ] BULK VOA SOIL JARS NOT RECEIVED WITHIN 48 HOURS
- [ ] % SOLIDS JAR NOT RECEIVED
- [ ] RESIDUAL CHLORINE PRESENT LOT#_____

{APPLICABLE TO EPA 600 SERIES OR NORTH CAROLINA ORGANICS}

pH PAPER LOT#s WIDE RANGE A036122 NARROW RANGE HC421754 OTHER (specify) 405-230010

SUMMARY OF COMMENTS: 250 ml (8270) Sample #14

TECHNICIAN SIGNATURE/DATE [signature] 04-01-15 REVIEWER SIGNATURE/DATE [signature] 4-1-15

NF 10/14 receipt confirmation 102914.xls

5.1 5

FA23258: Chain of Custody
Page 5 of 6

FedEx 1 of 4
TRK# 0215 8066 1758 1400
MASTER
XH TIXA

WED - 01 APR 10:30A
PRIORITY OVERNIGHT
32811
FL-US
MCO

FID 610717 31MAR15 ELPA 522C2/8FC5/65DD

FedEx 2 of 4
MPS# 0260 8529 2438 9060
Mstr# 8066 1758 1400 0215
XH TIXA

WED - 01 APR
PRIORITY OVERNIGHT
32811
FL-US
MCO

FID 610717 31MAR15 ELPA 522C2/8FC5/65DD

5.1 5

FA23258: Chain of Custody

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QC Evaluation: DOD QSM5 Limits

Job Number: FA23258
Account: FPM Remediations
Project: HM-AZ PBR Holloman AFB; Alamogordo, NM
Collected: 03/29/15 thru 03/30/15

QC Sample ID	CAS#	Analyte	Sample Type	Result Type	Result	Units	Limits
OP55582	SW846 8270D						
OP55582-BS	83-32-9	Acenaphthene	BSP	REC	77	%	40-123
OP55582-BS	83-32-9	Acenaphthene	BSP	REC	77	%	40-123
OP55582-BS	208-96-8	Acenaphthylene	BSP	REC	76	%	32-132
OP55582-BS	208-96-8	Acenaphthylene	BSP	REC	71	%	32-132
OP55582-BS	120-12-7	Anthracene	BSP	REC	77	%	47-123
OP55582-BS	120-12-7	Anthracene	BSP	REC	79	%	47-123
OP55582-BS	56-55-3	Benzo(a)anthracene	BSP	REC	91	%	49-126
OP55582-BS	56-55-3	Benzo(a)anthracene	BSP	REC	91	%	49-126
OP55582-BS	50-32-8	Benzo(a)pyrene	BSP	REC	83	%	45-129
OP55582-BS	50-32-8	Benzo(a)pyrene	BSP	REC	85	%	45-129
OP55582-BS	205-99-2	Benzo(b)fluoranthene	BSP	REC	88	%	45-132
OP55582-BS	205-99-2	Benzo(b)fluoranthene	BSP	REC	83	%	45-132
OP55582-BS	191-24-2	Benzo(g,h,i)perylene	BSP	REC	91	%	43-134
OP55582-BS	191-24-2	Benzo(g,h,i)perylene	BSP	REC	88	%	43-134
OP55582-BS	207-08-9	Benzo(k)fluoranthene	BSP	REC	85	%	47-132
OP55582-BS	207-08-9	Benzo(k)fluoranthene	BSP	REC	85	%	47-132
OP55582-BS	218-01-9	Chrysene	BSP	REC	89	%	50-124
OP55582-BS	218-01-9	Chrysene	BSP	REC	91	%	50-124
OP55582-BS	53-70-3	Dibenzo(a,h)anthracene	BSP	REC	89	%	45-134
OP55582-BS	53-70-3	Dibenzo(a,h)anthracene	BSP	REC	91	%	45-134
OP55582-BS	206-44-0	Fluoranthene	BSP	REC	82	%	50-127
OP55582-BS	206-44-0	Fluoranthene	BSP	REC	79	%	50-127
OP55582-BS	86-73-7	Fluorene	BSP	REC	76	%	43-125
OP55582-BS	86-73-7	Fluorene	BSP	REC	75	%	43-125
OP55582-BS	193-39-5	Indeno(1,2,3-cd)pyrene	BSP	REC	86	%	45-133
OP55582-BS	193-39-5	Indeno(1,2,3-cd)pyrene	BSP	REC	82	%	45-133
OP55582-BS	90-12-0	1-Methylnaphthalene	BSP	REC	85	%	40-119
OP55582-BS	90-12-0	1-Methylnaphthalene	BSP	REC	84	%	40-119
OP55582-BS	91-57-6	2-Methylnaphthalene	BSP	REC	68	%	38-122
OP55582-BS	91-57-6	2-Methylnaphthalene	BSP	REC	67	%	38-122
OP55582-BS	91-20-3	Naphthalene	BSP	REC	65	%	35-123
OP55582-BS	91-20-3	Naphthalene	BSP	REC	67	%	35-123
OP55582-BS	85-01-8	Phenanthrene	BSP	REC	77	%	50-121
OP55582-BS	85-01-8	Phenanthrene	BSP	REC	79	%	50-121
OP55582-BS	129-00-0	Pyrene	BSP	REC	92	%	47-127
OP55582-BS	129-00-0	Pyrene	BSP	REC	90	%	47-127
OP55582-BS	4165-60-0	Nitrobenzene-d5	BSP	SURR	70	%	37-122
OP55582-BS	4165-60-0	Nitrobenzene-d5	BSP	SURR	67	%	37-122
OP55582-BS	321-60-8	2-Fluorobiphenyl	BSP	SURR	69	%	44-115
OP55582-BS	321-60-8	2-Fluorobiphenyl	BSP	SURR	69	%	44-115
OP55582-BS	1718-51-0	Terphenyl-d14	BSP	SURR	93	%	54-127
OP55582-BS	1718-51-0	Terphenyl-d14	BSP	SURR	92	%	54-127

* Sample used for QC is not from job FA23258

QC Evaluation: DOD QSM5 Limits

Job Number: FA23258
Account: FPM Remediations
Project: HM-AZ PBR Holloman AFB; Alamogordo, NM
Collected: 03/29/15 thru 03/30/15

QC Sample ID	CAS#	Analyte	Sample Type	Result Type	Result	Units	Limits
OP55582-MS	83-32-9	Acenaphthene	MS	REC	74	%	40-123
OP55582-MS	208-96-8	Acenaphthylene	MS	REC	72	%	32-132
OP55582-MS	120-12-7	Anthracene	MS	REC	75	%	47-123
OP55582-MS	56-55-3	Benzo(a)anthracene	MS	REC	80	%	49-126
OP55582-MS	50-32-8	Benzo(a)pyrene	MS	REC	72	%	45-129
OP55582-MS	205-99-2	Benzo(b)fluoranthene	MS	REC	75	%	45-132
OP55582-MS	191-24-2	Benzo(g,h,i)perylene	MS	REC	73	%	43-134
OP55582-MS	207-08-9	Benzo(k)fluoranthene	MS	REC	74	%	47-132
OP55582-MS	218-01-9	Chrysene	MS	REC	80	%	50-124
OP55582-MS	53-70-3	Dibenzo(a,h)anthracene	MS	REC	74	%	45-134
OP55582-MS	206-44-0	Fluoranthene	MS	REC	72	%	50-127
OP55582-MS	86-73-7	Fluorene	MS	REC	71	%	43-125
OP55582-MS	193-39-5	Indeno(1,2,3-cd)pyrene	MS	REC	71	%	45-133
OP55582-MS	90-12-0	1-Methylnaphthalene	MS	REC	75	%	40-119
OP55582-MS	91-57-6	2-Methylnaphthalene	MS	REC	60	%	38-122
OP55582-MS	91-20-3	Naphthalene	MS	REC	62	%	35-123
OP55582-MS	85-01-8	Phenanthrene	MS	REC	75	%	50-121
OP55582-MS	129-00-0	Pyrene	MS	REC	85	%	47-127
OP55582-MS	4165-60-0	Nitrobenzene-d5	MS	SURR	64	%	37-122
OP55582-MS	321-60-8	2-Fluorobiphenyl	MS	SURR	69	%	44-115
OP55582-MS	1718-51-0	Terphenyl-d14	MS	SURR	90	%	54-127
OP55582-MSD	83-32-9	Acenaphthene	MSD	REC	81	%	40-123
OP55582-MSD	83-32-9	Acenaphthene	MSD	RPD	8	%	20
OP55582-MSD	208-96-8	Acenaphthylene	MSD	REC	81	%	32-132
OP55582-MSD	208-96-8	Acenaphthylene	MSD	RPD	11	%	20
OP55582-MSD	120-12-7	Anthracene	MSD	REC	86	%	47-123
OP55582-MSD	120-12-7	Anthracene	MSD	RPD	13	%	20
OP55582-MSD	56-55-3	Benzo(a)anthracene	MSD	REC	91	%	49-126
OP55582-MSD	56-55-3	Benzo(a)anthracene	MSD	RPD	12	%	20
OP55582-MSD	50-32-8	Benzo(a)pyrene	MSD	REC	81	%	45-129
OP55582-MSD	50-32-8	Benzo(a)pyrene	MSD	RPD	12	%	20
OP55582-MSD	205-99-2	Benzo(b)fluoranthene	MSD	REC	83	%	45-132
OP55582-MSD	205-99-2	Benzo(b)fluoranthene	MSD	RPD	9	%	20
OP55582-MSD	191-24-2	Benzo(g,h,i)perylene	MSD	REC	86	%	43-134
OP55582-MSD	191-24-2	Benzo(g,h,i)perylene	MSD	RPD	16	%	20
OP55582-MSD	207-08-9	Benzo(k)fluoranthene	MSD	REC	84	%	47-132
OP55582-MSD	207-08-9	Benzo(k)fluoranthene	MSD	RPD	12	%	20
OP55582-MSD	218-01-9	Chrysene	MSD	REC	91	%	50-124
OP55582-MSD	218-01-9	Chrysene	MSD	RPD	13	%	20
OP55582-MSD	53-70-3	Dibenzo(a,h)anthracene	MSD	REC	88	%	45-134
OP55582-MSD	53-70-3	Dibenzo(a,h)anthracene	MSD	RPD	17	%	20
OP55582-MSD	206-44-0	Fluoranthene	MSD	REC	82	%	50-127
OP55582-MSD	206-44-0	Fluoranthene	MSD	RPD	13	%	20
OP55582-MSD	86-73-7	Fluorene	MSD	REC	80	%	43-125
OP55582-MSD	86-73-7	Fluorene	MSD	RPD	11	%	20

* Sample used for QC is not from job FA23258

QC Evaluation: DOD QSM5 Limits

Job Number: FA23258
Account: FPM Remediations
Project: HM-AZ PBR Holloman AFB; Alamogordo, NM
Collected: 03/29/15 thru 03/30/15

QC Sample ID	CAS#	Analyte	Sample Type	Result Type	Result	Units	Limits
OP55582-MSD	193-39-5	Indeno(1,2,3-cd)pyrene	MSD	REC	81	%	45-133
OP55582-MSD	193-39-5	Indeno(1,2,3-cd)pyrene	MSD	RPD	13	%	20
OP55582-MSD	90-12-0	1-Methylnaphthalene	MSD	REC	83	%	40-119
OP55582-MSD	90-12-0	1-Methylnaphthalene	MSD	RPD	10	%	20
OP55582-MSD	91-57-6	2-Methylnaphthalene	MSD	REC	69	%	38-122
OP55582-MSD	91-57-6	2-Methylnaphthalene	MSD	RPD	14	%	20
OP55582-MSD	91-20-3	Naphthalene	MSD	REC	67	%	35-123
OP55582-MSD	91-20-3	Naphthalene	MSD	RPD	8	%	20
OP55582-MSD	85-01-8	Phenanthrene	MSD	REC	85	%	50-121
OP55582-MSD	85-01-8	Phenanthrene	MSD	RPD	12	%	20
OP55582-MSD	129-00-0	Pyrene	MSD	REC	92	%	47-127
OP55582-MSD	129-00-0	Pyrene	MSD	RPD	7	%	20
OP55582-MSD	4165-60-0	Nitrobenzene-d5	MSD	SURR	69	%	37-122
OP55582-MSD	321-60-8	2-Fluorobiphenyl	MSD	SURR	75	%	44-115
OP55582-MSD	1718-51-0	Terphenyl-d14	MSD	SURR	92	%	54-127
OP55582-MB	4165-60-0	Nitrobenzene-d5	MB	SURR	80	%	37-122
OP55582-MB	4165-60-0	Nitrobenzene-d5	MB	SURR	77	%	37-122
OP55582-MB	321-60-8	2-Fluorobiphenyl	MB	SURR	78	%	44-115
OP55582-MB	321-60-8	2-Fluorobiphenyl	MB	SURR	75	%	44-115
OP55582-MB	1718-51-0	Terphenyl-d14	MB	SURR	92	%	54-127
OP55582-MB	1718-51-0	Terphenyl-d14	MB	SURR	91	%	54-127
FA23258-1	4165-60-0	Nitrobenzene-d5	SAMP	SURR	70	%	37-122
FA23258-1	321-60-8	2-Fluorobiphenyl	SAMP	SURR	74	%	44-115
FA23258-1	1718-51-0	Terphenyl-d14	SAMP	SURR	82	%	54-127
FA23258-3	4165-60-0	Nitrobenzene-d5	SAMP	SURR	66	%	37-122
FA23258-3	321-60-8	2-Fluorobiphenyl	SAMP	SURR	71	%	44-115
FA23258-3	1718-51-0	Terphenyl-d14	SAMP	SURR	81	%	54-127
FA23258-5	4165-60-0	Nitrobenzene-d5	SAMP	SURR	75	%	37-122
FA23258-5	321-60-8	2-Fluorobiphenyl	SAMP	SURR	76	%	44-115
FA23258-5	1718-51-0	Terphenyl-d14	SAMP	SURR	86	%	54-127
FA23258-7	4165-60-0	Nitrobenzene-d5	SAMP	SURR	66	%	37-122
FA23258-7	321-60-8	2-Fluorobiphenyl	SAMP	SURR	67	%	44-115
FA23258-7	1718-51-0	Terphenyl-d14	SAMP	SURR	83	%	54-127
FA23258-8	4165-60-0	Nitrobenzene-d5	SAMP	SURR	71	%	37-122
FA23258-8	321-60-8	2-Fluorobiphenyl	SAMP	SURR	71	%	44-115
FA23258-8	1718-51-0	Terphenyl-d14	SAMP	SURR	87	%	54-127
FA23258-10	4165-60-0	Nitrobenzene-d5	SAMP	SURR	72	%	37-122
FA23258-10	321-60-8	2-Fluorobiphenyl	SAMP	SURR	68	%	44-115
FA23258-10	1718-51-0	Terphenyl-d14	SAMP	SURR	91	%	54-127
FA23258-12	4165-60-0	Nitrobenzene-d5	SAMP	SURR	75	%	37-122
FA23258-12	321-60-8	2-Fluorobiphenyl	SAMP	SURR	72	%	44-115
FA23258-12	1718-51-0	Terphenyl-d14	SAMP	SURR	93	%	54-127
FA23258-15	4165-60-0	Nitrobenzene-d5	SAMP	SURR	76	%	37-122
FA23258-15	321-60-8	2-Fluorobiphenyl	SAMP	SURR	73	%	44-115
FA23258-15	1718-51-0	Terphenyl-d14	SAMP	SURR	89	%	54-127

* Sample used for QC is not from job FA23258

QC Evaluation: DOD QSM5 Limits

Job Number: FA23258
Account: FPM Remediations
Project: HM-AZ PBR Holloman AFB; Alamogordo, NM
Collected: 03/29/15 thru 03/30/15

QC Sample ID	CAS#	Analyte	Sample Type	Result Type	Result	Units	Limits
FA23258-17	4165-60-0	Nitrobenzene-d5	SAMP	SURR	81	%	37-122
FA23258-17	321-60-8	2-Fluorobiphenyl	SAMP	SURR	77	%	44-115
FA23258-17	1718-51-0	Terphenyl-d14	SAMP	SURR	96	%	54-127
FA23258-19	4165-60-0	Nitrobenzene-d5	SAMP	SURR	80	%	37-122
FA23258-19	321-60-8	2-Fluorobiphenyl	SAMP	SURR	79	%	44-115
FA23258-19	1718-51-0	Terphenyl-d14	SAMP	SURR	96	%	54-127
FA23258-21	4165-60-0	Nitrobenzene-d5	SAMP	SURR	73	%	37-122
FA23258-21	321-60-8	2-Fluorobiphenyl	SAMP	SURR	70	%	44-115
FA23258-21	1718-51-0	Terphenyl-d14	SAMP	SURR	86	%	54-127
FA23258-22	4165-60-0	Nitrobenzene-d5	SAMP	SURR	84	%	37-122
FA23258-22	321-60-8	2-Fluorobiphenyl	SAMP	SURR	80	%	44-115
FA23258-22	1718-51-0	Terphenyl-d14	SAMP	SURR	98	%	54-127
FA23258-23	4165-60-0	Nitrobenzene-d5	SAMP	SURR	84	%	37-122
FA23258-23	321-60-8	2-Fluorobiphenyl	SAMP	SURR	79	%	44-115
FA23258-23	1718-51-0	Terphenyl-d14	SAMP	SURR	100	%	54-127
FA23258-25	4165-60-0	Nitrobenzene-d5	SAMP	SURR	75	%	37-122
FA23258-25	321-60-8	2-Fluorobiphenyl	SAMP	SURR	71	%	44-115
FA23258-25	1718-51-0	Terphenyl-d14	SAMP	SURR	86	%	54-127
FA23258-27	4165-60-0	Nitrobenzene-d5	SAMP	SURR	83	%	37-122
FA23258-27	321-60-8	2-Fluorobiphenyl	SAMP	SURR	80	%	44-115
FA23258-27	1718-51-0	Terphenyl-d14	SAMP	SURR	99	%	54-127
FA23258-29	4165-60-0	Nitrobenzene-d5	SAMP	SURR	85	%	37-122
FA23258-29	321-60-8	2-Fluorobiphenyl	SAMP	SURR	80	%	44-115
FA23258-29	1718-51-0	Terphenyl-d14	SAMP	SURR	102	%	54-127
FA23258-31	4165-60-0	Nitrobenzene-d5	SAMP	SURR	79	%	37-122
FA23258-31	321-60-8	2-Fluorobiphenyl	SAMP	SURR	78	%	44-115
FA23258-31	1718-51-0	Terphenyl-d14	SAMP	SURR	94	%	54-127
FA23258-33	4165-60-0	Nitrobenzene-d5	SAMP	SURR	69	%	37-122
FA23258-33	321-60-8	2-Fluorobiphenyl	SAMP	SURR	71	%	44-115
FA23258-33	1718-51-0	Terphenyl-d14	SAMP	SURR	85	%	54-127
OP55584	SW846 8270D						
OP55584-BS	83-32-9	Acenaphthene	BSP	REC	82	%	40-123
OP55584-BS	208-96-8	Acenaphthylene	BSP	REC	82	%	32-132
OP55584-BS	120-12-7	Anthracene	BSP	REC	85	%	47-123
OP55584-BS	56-55-3	Benzo(a)anthracene	BSP	REC	92	%	49-126
OP55584-BS	50-32-8	Benzo(a)pyrene	BSP	REC	92	%	45-129
OP55584-BS	205-99-2	Benzo(b)fluoranthene	BSP	REC	91	%	45-132
OP55584-BS	191-24-2	Benzo(g,h,i)perylene	BSP	REC	92	%	43-134
OP55584-BS	207-08-9	Benzo(k)fluoranthene	BSP	REC	89	%	47-132
OP55584-BS	218-01-9	Chrysene	BSP	REC	92	%	50-124
OP55584-BS	53-70-3	Dibenzo(a,h)anthracene	BSP	REC	94	%	45-134
OP55584-BS	206-44-0	Fluoranthene	BSP	REC	82	%	50-127
OP55584-BS	86-73-7	Fluorene	BSP	REC	82	%	43-125

* Sample used for QC is not from job FA23258

QC Evaluation: DOD QSM5 Limits

Job Number: FA23258
Account: FPM Remediations
Project: HM-AZ PBR Holloman AFB; Alamogordo, NM
Collected: 03/29/15 thru 03/30/15

QC Sample ID	CAS#	Analyte	Sample Type	Result Type	Result	Units	Limits
OP55584-BS	193-39-5	Indeno(1,2,3-cd)pyrene	BSP	REC	83	%	45-133
OP55584-BS	90-12-0	1-Methylnaphthalene	BSP	REC	95	%	40-119
OP55584-BS	91-57-6	2-Methylnaphthalene	BSP	REC	79	%	38-122
OP55584-BS	91-20-3	Naphthalene	BSP	REC	78	%	35-123
OP55584-BS	85-01-8	Phenanthrene	BSP	REC	83	%	50-121
OP55584-BS	129-00-0	Pyrene	BSP	REC	89	%	47-127
OP55584-BS	4165-60-0	Nitrobenzene-d5	BSP	SURR	74	%	37-122
OP55584-BS	321-60-8	2-Fluorobiphenyl	BSP	SURR	76	%	44-115
OP55584-BS	1718-51-0	Terphenyl-d14	BSP	SURR	92	%	54-127
OP55584-MS	83-32-9	Acenaphthene	MS	REC	79	%	40-123
OP55584-MS	208-96-8	Acenaphthylene	MS	REC	77	%	32-132
OP55584-MS	120-12-7	Anthracene	MS	REC	81	%	47-123
OP55584-MS	56-55-3	Benzo(a)anthracene	MS	REC	89	%	49-126
OP55584-MS	50-32-8	Benzo(a)pyrene	MS	REC	84	%	45-129
OP55584-MS	205-99-2	Benzo(b)fluoranthene	MS	REC	85	%	45-132
OP55584-MS	191-24-2	Benzo(g,h,i)perylene	MS	REC	86	%	43-134
OP55584-MS	207-08-9	Benzo(k)fluoranthene	MS	REC	85	%	47-132
OP55584-MS	218-01-9	Chrysene	MS	REC	87	%	50-124
OP55584-MS	53-70-3	Dibenzo(a,h)anthracene	MS	REC	87	%	45-134
OP55584-MS	206-44-0	Fluoranthene	MS	REC	82	%	50-127
OP55584-MS	86-73-7	Fluorene	MS	REC	79	%	43-125
OP55584-MS	193-39-5	Indeno(1,2,3-cd)pyrene	MS	REC	81	%	45-133
OP55584-MS	90-12-0	1-Methylnaphthalene	MS	REC	89	%	40-119
OP55584-MS	91-57-6	2-Methylnaphthalene	MS	REC	73	%	38-122
OP55584-MS	91-20-3	Naphthalene	MS	REC	72	%	35-123
OP55584-MS	85-01-8	Phenanthrene	MS	REC	82	%	50-121
OP55584-MS	129-00-0	Pyrene	MS	REC	84	%	47-127
OP55584-MS	4165-60-0	Nitrobenzene-d5	MS	SURR	71	%	37-122
OP55584-MS	321-60-8	2-Fluorobiphenyl	MS	SURR	74	%	44-115
OP55584-MS	1718-51-0	Terphenyl-d14	MS	SURR	91	%	54-127
OP55584-MSD	83-32-9	Acenaphthene	MSD	REC	79	%	40-123
OP55584-MSD	83-32-9	Acenaphthene	MSD	RPD	1	%	20
OP55584-MSD	208-96-8	Acenaphthylene	MSD	REC	79	%	32-132
OP55584-MSD	208-96-8	Acenaphthylene	MSD	RPD	2	%	20
OP55584-MSD	120-12-7	Anthracene	MSD	REC	80	%	47-123
OP55584-MSD	120-12-7	Anthracene	MSD	RPD	2	%	20
OP55584-MSD	56-55-3	Benzo(a)anthracene	MSD	REC	88	%	49-126
OP55584-MSD	56-55-3	Benzo(a)anthracene	MSD	RPD	2	%	20
OP55584-MSD	50-32-8	Benzo(a)pyrene	MSD	REC	87	%	45-129
OP55584-MSD	50-32-8	Benzo(a)pyrene	MSD	RPD	3	%	20
OP55584-MSD	205-99-2	Benzo(b)fluoranthene	MSD	REC	87	%	45-132
OP55584-MSD	205-99-2	Benzo(b)fluoranthene	MSD	RPD	1	%	20
OP55584-MSD	191-24-2	Benzo(g,h,i)perylene	MSD	REC	89	%	43-134
OP55584-MSD	191-24-2	Benzo(g,h,i)perylene	MSD	RPD	2	%	20
OP55584-MSD	207-08-9	Benzo(k)fluoranthene	MSD	REC	86	%	47-132

* Sample used for QC is not from job FA23258

QC Evaluation: DOD QSM5 Limits

Job Number: FA23258
Account: FPM Remediations
Project: HM-AZ PBR Holloman AFB; Alamogordo, NM
Collected: 03/29/15 thru 03/30/15

QC Sample ID	CAS#	Analyte	Sample Type	Result Type	Result	Units	Limits
OP55584-MSD	207-08-9	Benzo(k)fluoranthene	MSD	RPD	1	%	20
OP55584-MSD	218-01-9	Chrysene	MSD	REC	88	%	50-124
OP55584-MSD	218-01-9	Chrysene	MSD	RPD	1	%	20
OP55584-MSD	53-70-3	Dibenzo(a,h)anthracene	MSD	REC	88	%	45-134
OP55584-MSD	53-70-3	Dibenzo(a,h)anthracene	MSD	RPD	0	%	20
OP55584-MSD	206-44-0	Fluoranthene	MSD	REC	81	%	50-127
OP55584-MSD	206-44-0	Fluoranthene	MSD	RPD	2	%	20
OP55584-MSD	86-73-7	Fluorene	MSD	REC	79	%	43-125
OP55584-MSD	86-73-7	Fluorene	MSD	RPD	1	%	20
OP55584-MSD	193-39-5	Indeno(1,2,3-cd)pyrene	MSD	REC	83	%	45-133
OP55584-MSD	193-39-5	Indeno(1,2,3-cd)pyrene	MSD	RPD	3	%	20
OP55584-MSD	90-12-0	1-Methylnaphthalene	MSD	REC	92	%	40-119
OP55584-MSD	90-12-0	1-Methylnaphthalene	MSD	RPD	3	%	20
OP55584-MSD	91-57-6	2-Methylnaphthalene	MSD	REC	73	%	38-122
OP55584-MSD	91-57-6	2-Methylnaphthalene	MSD	RPD	0	%	20
OP55584-MSD	91-20-3	Naphthalene	MSD	REC	74	%	35-123
OP55584-MSD	91-20-3	Naphthalene	MSD	RPD	3	%	20
OP55584-MSD	85-01-8	Phenanthrene	MSD	REC	81	%	50-121
OP55584-MSD	85-01-8	Phenanthrene	MSD	RPD	2	%	20
OP55584-MSD	129-00-0	Pyrene	MSD	REC	87	%	47-127
OP55584-MSD	129-00-0	Pyrene	MSD	RPD	2	%	20
OP55584-MSD	4165-60-0	Nitrobenzene-d5	MSD	SURR	72	%	37-122
OP55584-MSD	321-60-8	2-Fluorobiphenyl	MSD	SURR	73	%	44-115
OP55584-MSD	1718-51-0	Terphenyl-d14	MSD	SURR	91	%	54-127
OP55584-MB	4165-60-0	Nitrobenzene-d5	MB	SURR	47	%	37-122
OP55584-MB	321-60-8	2-Fluorobiphenyl	MB	SURR	47	%	44-115
OP55584-MB	1718-51-0	Terphenyl-d14	MB	SURR	58	%	54-127
FA23258-35	4165-60-0	Nitrobenzene-d5	SAMP	SURR	70	%	37-122
FA23258-35	321-60-8	2-Fluorobiphenyl	SAMP	SURR	68	%	44-115
FA23258-35	1718-51-0	Terphenyl-d14	SAMP	SURR	91	%	54-127
FA23258-37	4165-60-0	Nitrobenzene-d5	SAMP	SURR	76	%	37-122
FA23258-37	321-60-8	2-Fluorobiphenyl	SAMP	SURR	80	%	44-115
FA23258-37	1718-51-0	Terphenyl-d14	SAMP	SURR	102	%	54-127
FA23258-39	4165-60-0	Nitrobenzene-d5	SAMP	SURR	60	%	37-122
FA23258-39	321-60-8	2-Fluorobiphenyl	SAMP	SURR	63	%	44-115
FA23258-39	1718-51-0	Terphenyl-d14	SAMP	SURR	87	%	54-127
FA23258-41	4165-60-0	Nitrobenzene-d5	SAMP	SURR	77	%	37-122
FA23258-41	321-60-8	2-Fluorobiphenyl	SAMP	SURR	78	%	44-115
FA23258-41	1718-51-0	Terphenyl-d14	SAMP	SURR	108	%	54-127
OP55593	SW846 8270D BY SIM						
OP55593-BS	4165-60-0	Nitrobenzene-d5	BSP	SURR	83	%	55-111
OP55593-BS	321-60-8	2-Fluorobiphenyl	BSP	SURR	84	%	53-106
OP55593-BS	1718-51-0	Terphenyl-d14	BSP	SURR	88	%	58-132

* Sample used for QC is not from job FA23258

QC Evaluation: DOD QSM5 Limits

Job Number: FA23258
Account: FPM Remediations
Project: HM-AZ PBR Holloman AFB; Alamogordo, NM
Collected: 03/29/15 thru 03/30/15

QC Sample ID	CAS#	Analyte	Sample Type	Result Type	Result	Units	Limits
OP55593-MS*	83-32-9	Acenaphthene	MS	REC	90 [a]	%	48-114
OP55593-MS*	208-96-8	Acenaphthylene	MS	REC	88 [a]	%	35-121
OP55593-MS*	120-12-7	Anthracene	MS	REC	87 [a]	%	53-119
OP55593-MS*	56-55-3	Benzo(a)anthracene	MS	REC	104 [a]	%	59-120
OP55593-MS*	50-32-8	Benzo(a)pyrene	MS	REC	91 [a]	%	53-120
OP55593-MS*	205-99-2	Benzo(b)fluoranthene	MS	REC	98 [a]	%	53-126
OP55593-MS*	191-24-2	Benzo(g,h,i)perylene	MS	REC	74 [a]	%	44-128
OP55593-MS*	207-08-9	Benzo(k)fluoranthene	MS	REC	94 [a]	%	54-125
OP55593-MS*	218-01-9	Chrysene	MS	REC	106 [a]	%	57-120
OP55593-MS*	53-70-3	Dibenzo(a,h)anthracene	MS	REC	69 [a]	%	44-131
OP55593-MS*	206-44-0	Fluoranthene	MS	REC	97 [a]	%	58-120
OP55593-MS*	86-73-7	Fluorene	MS	REC	98 [a]	%	50-118
OP55593-MS*	193-39-5	Indeno(1,2,3-cd)pyrene	MS	REC	74 [a]	%	48-130
OP55593-MS*	90-12-0	1-Methylnaphthalene	MS	REC	91 [a]	%	41-115
OP55593-MS*	91-57-6	2-Methylnaphthalene	MS	REC	87 [a]	%	39-114
OP55593-MS*	91-20-3	Naphthalene	MS	REC	85 [a]	%	43-114
OP55593-MS*	85-01-8	Phenanthrene	MS	REC	93 [a]	%	53-115
OP55593-MS*	129-00-0	Pyrene	MS	REC	97 [a]	%	53-121
OP55593-MS*	4165-60-0	Nitrobenzene-d5	MS	SURR	88	%	55-111
OP55593-MS*	321-60-8	2-Fluorobiphenyl	MS	SURR	88	%	53-106
OP55593-MS*	1718-51-0	Terphenyl-d14	MS	SURR	99	%	58-132
OP55593-MSD*	83-32-9	Acenaphthene	MSD	REC	71	%	48-114
OP55593-MSD*	83-32-9	Acenaphthene	MSD	RPD	24 [b]	%	20
OP55593-MSD*	208-96-8	Acenaphthylene	MSD	REC	66	%	35-121
OP55593-MSD*	208-96-8	Acenaphthylene	MSD	RPD	29 [b]	%	20
OP55593-MSD*	120-12-7	Anthracene	MSD	REC	80	%	53-119
OP55593-MSD*	120-12-7	Anthracene	MSD	RPD	8 [b]	%	20
OP55593-MSD*	56-55-3	Benzo(a)anthracene	MSD	REC	99	%	59-120
OP55593-MSD*	56-55-3	Benzo(a)anthracene	MSD	RPD	5 [b]	%	20
OP55593-MSD*	50-32-8	Benzo(a)pyrene	MSD	REC	101	%	53-120
OP55593-MSD*	50-32-8	Benzo(a)pyrene	MSD	RPD	10 [b]	%	20
OP55593-MSD*	205-99-2	Benzo(b)fluoranthene	MSD	REC	114	%	53-126
OP55593-MSD*	205-99-2	Benzo(b)fluoranthene	MSD	RPD	15 [b]	%	20
OP55593-MSD*	191-24-2	Benzo(g,h,i)perylene	MSD	REC	106	%	44-128
OP55593-MSD*	191-24-2	Benzo(g,h,i)perylene	MSD	RPD	36 [b]	%	20
OP55593-MSD*	207-08-9	Benzo(k)fluoranthene	MSD	REC	113	%	54-125
OP55593-MSD*	207-08-9	Benzo(k)fluoranthene	MSD	RPD	18 [b]	%	20
OP55593-MSD*	218-01-9	Chrysene	MSD	REC	110	%	57-120
OP55593-MSD*	218-01-9	Chrysene	MSD	RPD	4 [b]	%	20
OP55593-MSD*	53-70-3	Dibenzo(a,h)anthracene	MSD	REC	100	%	44-131
OP55593-MSD*	53-70-3	Dibenzo(a,h)anthracene	MSD	RPD	37 [b]	%	20
OP55593-MSD*	206-44-0	Fluoranthene	MSD	REC	97	%	58-120
OP55593-MSD*	206-44-0	Fluoranthene	MSD	RPD	0 [b]	%	20
OP55593-MSD*	86-73-7	Fluorene	MSD	REC	79	%	50-118
OP55593-MSD*	86-73-7	Fluorene	MSD	RPD	21 [b]	%	20

* Sample used for QC is not from job FA23258

QC Evaluation: DOD QSM5 Limits

Job Number: FA23258
Account: FPM Remediations
Project: HM-AZ PBR Holloman AFB; Alamogordo, NM
Collected: 03/29/15 thru 03/30/15

QC Sample ID	CAS#	Analyte	Sample Type	Result Type	Result	Units	Limits
OP55593-MSD*	193-39-5	Indeno(1,2,3-cd)pyrene	MSD	REC	103	%	48-130
OP55593-MSD*	193-39-5	Indeno(1,2,3-cd)pyrene	MSD	RPD	33 [b]	%	20
OP55593-MSD*	90-12-0	1-Methylnaphthalene	MSD	REC	67	%	41-115
OP55593-MSD*	90-12-0	1-Methylnaphthalene	MSD	RPD	30 [b]	%	20
OP55593-MSD*	91-57-6	2-Methylnaphthalene	MSD	REC	63	%	39-114
OP55593-MSD*	91-57-6	2-Methylnaphthalene	MSD	RPD	32 [b]	%	20
OP55593-MSD*	91-20-3	Naphthalene	MSD	REC	61	%	43-114
OP55593-MSD*	91-20-3	Naphthalene	MSD	RPD	33 [b]	%	20
OP55593-MSD*	85-01-8	Phenanthrene	MSD	REC	86	%	53-115
OP55593-MSD*	85-01-8	Phenanthrene	MSD	RPD	8 [b]	%	20
OP55593-MSD*	129-00-0	Pyrene	MSD	REC	94	%	53-121
OP55593-MSD*	129-00-0	Pyrene	MSD	RPD	3 [b]	%	20
OP55593-MSD*	4165-60-0	Nitrobenzene-d5	MSD	SURR	59	%	55-111
OP55593-MSD*	321-60-8	2-Fluorobiphenyl	MSD	SURR	61	%	53-106
OP55593-MSD*	1718-51-0	Terphenyl-d14	MSD	SURR	92	%	58-132
OP55593-MB	4165-60-0	Nitrobenzene-d5	MB	SURR	83	%	55-111
OP55593-MB	321-60-8	2-Fluorobiphenyl	MB	SURR	80	%	53-106
OP55593-MB	1718-51-0	Terphenyl-d14	MB	SURR	89	%	58-132
FA23258-14	4165-60-0	Nitrobenzene-d5	SAMP	SURR	89	%	55-111
FA23258-14	321-60-8	2-Fluorobiphenyl	SAMP	SURR	93	%	53-106
FA23258-14	1718-51-0	Terphenyl-d14	SAMP	SURR	112	%	58-132
MP28752	SW846 6010C						
MP28752-B1	7440-36-0	Antimony	BSP	REC	99.6	%	79-114
MP28752-B1	7440-38-2	Arsenic	BSP	REC	101	%	82-111
MP28752-B1	7440-50-8	Copper	BSP	REC	104.8	%	81-117
MP28752-B1	7439-92-1	Lead	BSP	REC	96.8	%	81-112
MP28752-B1	7440-66-6	Zinc	BSP	REC	100.4	%	82-113
MP28752-S1	7440-36-0	Antimony	MS	REC	23.2 [c]	%	79-114
MP28752-S1	7440-38-2	Arsenic	MS	REC	102.3	%	82-111
MP28752-S1	7440-50-8	Copper	MS	REC	99.4	%	81-117
MP28752-S1	7439-92-1	Lead	MS	REC	91.8	%	81-112
MP28752-S1	7440-66-6	Zinc	MS	REC	97.7	%	82-113
MP28752-S2	7440-36-0	Antimony	MSD	REC	23.8 [c]	%	79-114
MP28752-S2	7440-36-0	Antimony	MSD	RPD	1.8	%	20
MP28752-S2	7440-38-2	Arsenic	MSD	REC	104.6	%	82-111
MP28752-S2	7440-38-2	Arsenic	MSD	RPD	1.4	%	20
MP28752-S2	7440-50-8	Copper	MSD	REC	102.7	%	81-117
MP28752-S2	7440-50-8	Copper	MSD	RPD	2	%	20
MP28752-S2	7439-92-1	Lead	MSD	REC	91.7	%	81-112
MP28752-S2	7439-92-1	Lead	MSD	RPD	.8	%	20
MP28752-S2	7440-66-6	Zinc	MSD	REC	98.9	%	82-113
MP28752-S2	7440-66-6	Zinc	MSD	RPD	.3	%	20
MP28752-D1	7440-36-0	Antimony	DUP	RPD	0	%	20

* Sample used for QC is not from job FA23258

QC Evaluation: DOD QSM5 Limits

Job Number: FA23258
Account: FPM Remediations
Project: HM-AZ PBR Holloman AFB; Alamogordo, NM
Collected: 03/29/15 thru 03/30/15

QC Sample ID	CAS#	Analyte	Sample Type	Result Type	Result	Units	Limits
MP28752-D1	7440-38-2	Arsenic	DUP	RPD	200 [d]	%	20
MP28752-D1	7440-50-8	Copper	DUP	RPD	9.8	%	20
MP28752-D1	7439-92-1	Lead	DUP	RPD	16.7	%	20
MP28752-D1	7440-66-6	Zinc	DUP	RPD	7.3	%	20
MP28755	SW846 6010C						
MP28755-B1	7440-36-0	Antimony	BSP	REC	99.6	%	79-114
MP28755-B1	7440-38-2	Arsenic	BSP	REC	100	%	82-111
MP28755-B1	7440-50-8	Copper	BSP	REC	104.8	%	81-117
MP28755-B1	7439-92-1	Lead	BSP	REC	98	%	81-112
MP28755-B1	7440-66-6	Zinc	BSP	REC	102	%	82-113
MP28755-S1*	7440-36-0	Antimony	MS	REC	27.4 [c]	%	79-114
MP28755-S1*	7440-38-2	Arsenic	MS	REC	86.9	%	82-111
MP28755-S1*	7440-50-8	Copper	MS	REC	98.2	%	81-117
MP28755-S1*	7439-92-1	Lead	MS	REC	96.9	%	81-112
MP28755-S1*	7440-66-6	Zinc	MS	REC	89.1	%	82-113
MP28755-S2*	7440-36-0	Antimony	MSD	REC	27 [c]	%	79-114
MP28755-S2*	7440-36-0	Antimony	MSD	RPD	11.9	%	20
MP28755-S2*	7440-38-2	Arsenic	MSD	REC	85.1	%	82-111
MP28755-S2*	7440-38-2	Arsenic	MSD	RPD	11.1	%	20
MP28755-S2*	7440-50-8	Copper	MSD	REC	99.6	%	81-117
MP28755-S2*	7440-50-8	Copper	MSD	RPD	11.3	%	20
MP28755-S2*	7439-92-1	Lead	MSD	REC	97.3	%	81-112
MP28755-S2*	7439-92-1	Lead	MSD	RPD	11.9	%	20
MP28755-S2*	7440-66-6	Zinc	MSD	REC	91.2	%	82-113
MP28755-S2*	7440-66-6	Zinc	MSD	RPD	11.3	%	20
MP28755-D1*	7440-36-0	Antimony	DUP	RPD	0	%	20
MP28755-D1*	7440-38-2	Arsenic	DUP	RPD	10.5	%	20
MP28755-D1*	7440-50-8	Copper	DUP	RPD	12.7	%	20
MP28755-D1*	7439-92-1	Lead	DUP	RPD	10	%	20
MP28755-D1*	7440-66-6	Zinc	DUP	RPD	21.5 [e]	%	20
MP28764	SW846 6010C						
MP28764-B1	7440-36-0	Antimony	BSP	REC	108.2	%	88-113
MP28764-B1	7440-38-2	Arsenic	BSP	REC	108.5	%	87-113
MP28764-B1	7440-50-8	Copper	BSP	REC	110.8	%	86-114
MP28764-B1	7439-92-1	Lead	BSP	REC	105.6	%	86-113
MP28764-B1	7440-66-6	Zinc	BSP	REC	108	%	87-115
MP28764-S1*	7440-36-0	Antimony	MS	REC	110.9	%	88-113
MP28764-S1*	7440-38-2	Arsenic	MS	REC	111.9	%	87-113
MP28764-S1*	7440-50-8	Copper	MS	REC	111.2	%	86-114
MP28764-S1*	7439-92-1	Lead	MS	REC	107	%	86-113
MP28764-S1*	7440-66-6	Zinc	MS	REC	108.3	%	87-115

* Sample used for QC is not from job FA23258

QC Evaluation: DOD QSM5 Limits

Job Number: FA23258
Account: FPM Remediations
Project: HM-AZ PBR Holloman AFB; Alamogordo, NM
Collected: 03/29/15 thru 03/30/15

QC Sample ID	CAS#	Analyte	Sample Type	Result Type	Result	Units	Limits
MP28764-S2*	7440-36-0	Antimony	MSD	REC	110.3	%	88-113
MP28764-S2*	7440-36-0	Antimony	MSD	RPD	.5	%	20
MP28764-S2*	7440-38-2	Arsenic	MSD	REC	111.9	%	87-113
MP28764-S2*	7440-38-2	Arsenic	MSD	RPD	0	%	20
MP28764-S2*	7440-50-8	Copper	MSD	REC	111.6	%	86-114
MP28764-S2*	7440-50-8	Copper	MSD	RPD	.4	%	20
MP28764-S2*	7439-92-1	Lead	MSD	REC	107	%	86-113
MP28764-S2*	7439-92-1	Lead	MSD	RPD	0	%	20
MP28764-S2*	7440-66-6	Zinc	MSD	REC	108.5	%	87-115
MP28764-S2*	7440-66-6	Zinc	MSD	RPD	.2	%	20
MP28764-D1*	7440-36-0	Antimony	DUP	RPD	30.8 [d]	%	20
MP28764-D1*	7440-38-2	Arsenic	DUP	RPD	0	%	20
MP28764-D1*	7440-50-8	Copper	DUP	RPD	0	%	20
MP28764-D1*	7439-92-1	Lead	DUP	RPD	200 [d]	%	20
MP28764-D1*	7440-66-6	Zinc	DUP	RPD	0	%	20

(a) Recovery corrected for double spike.
(b) RPD calcuated from Percent Recovery.
(c) Spike recovery indicates possible matrix interference and/or sample non-homogeneity.
(d) RPD acceptable due to low duplicate and sample concentrations.
(e) High RPD due to possible sample non-homogeneity.

* Sample used for QC is not from job FA23258

Southeast ACCUTEST LABORATORIES

GC/MS Semi-volatiles

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries
- Instrument Performance Checks (DFTPP)
- Internal Standard Area Summaries
- Surrogate Recovery Summaries
- Initial and Continuing Calibration Summaries

Method Blank Summary

Job Number: FA23258
Account: FPMRNYR FPM Remediations
Project: HM-AZ PBR Holloman AFB; Alamogordo, NM

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP55582-MB	L0681732.D	1	04/06/15	MV	04/03/15	OP55582	SL3631

The QC reported here applies to the following samples: **Method:** SW846 8270D

FA23258-1, FA23258-3, FA23258-5, FA23258-7, FA23258-8, FA23258-10, FA23258-12, FA23258-15, FA23258-17, FA23258-19, FA23258-21, FA23258-22, FA23258-23, FA23258-25, FA23258-27, FA23258-29, FA23258-31, FA23258-33

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	ND	170	17	ug/kg	
208-96-8	Acenaphthylene	ND	170	17	ug/kg	
120-12-7	Anthracene	ND	170	17	ug/kg	
56-55-3	Benzo(a)anthracene	ND	170	17	ug/kg	
50-32-8	Benzo(a)pyrene	ND	170	17	ug/kg	
205-99-2	Benzo(b)fluoranthene	ND	170	17	ug/kg	
191-24-2	Benzo(g,h,i)perylene	ND	170	17	ug/kg	
207-08-9	Benzo(k)fluoranthene	ND	170	17	ug/kg	
218-01-9	Chrysene	ND	170	17	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	170	17	ug/kg	
206-44-0	Fluoranthene	ND	170	17	ug/kg	
86-73-7	Fluorene	ND	170	17	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	170	17	ug/kg	
90-12-0	1-Methylnaphthalene	ND	170	17	ug/kg	
91-57-6	2-Methylnaphthalene	ND	170	17	ug/kg	
91-20-3	Naphthalene	ND	170	17	ug/kg	
85-01-8	Phenanthrene	ND	170	17	ug/kg	
129-00-0	Pyrene	ND	170	17	ug/kg	

CAS No.	Surrogate Recoveries		Limits
367-12-4	2-Fluorophenol	71%	40-102%
4165-62-2	Phenol-d5	84%	41-100%
118-79-6	2,4,6-Tribromophenol	83%	42-108%
4165-60-0	Nitrobenzene-d5	77%	40-105%
321-60-8	2-Fluorobiphenyl	78%	43-107%
1718-51-0	Terphenyl-d14	91%	45-119%

Method Blank Summary

Job Number: FA23258
Account: FPMRNYR FPM Remediations
Project: HM-AZ PBR Holloman AFB; Alamogordo, NM

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP55582-MB	L0681760.D	1	04/07/15	MV	04/03/15	OP55582	SL3632

The QC reported here applies to the following samples: **Method:** SW846 8270D

FA23258-1, FA23258-3, FA23258-5, FA23258-7, FA23258-8, FA23258-10, FA23258-12, FA23258-15, FA23258-17, FA23258-19, FA23258-21, FA23258-22, FA23258-23, FA23258-25, FA23258-27, FA23258-29, FA23258-31, FA23258-33

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	ND	170	17	ug/kg	
208-96-8	Acenaphthylene	ND	170	17	ug/kg	
120-12-7	Anthracene	ND	170	17	ug/kg	
56-55-3	Benzo(a)anthracene	ND	170	17	ug/kg	
50-32-8	Benzo(a)pyrene	ND	170	17	ug/kg	
205-99-2	Benzo(b)fluoranthene	ND	170	17	ug/kg	
191-24-2	Benzo(g,h,i)perylene	ND	170	17	ug/kg	
207-08-9	Benzo(k)fluoranthene	ND	170	17	ug/kg	
218-01-9	Chrysene	ND	170	17	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	170	17	ug/kg	
206-44-0	Fluoranthene	ND	170	17	ug/kg	
86-73-7	Fluorene	ND	170	17	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	170	17	ug/kg	
90-12-0	1-Methylnaphthalene	ND	170	17	ug/kg	
91-57-6	2-Methylnaphthalene	ND	170	17	ug/kg	
91-20-3	Naphthalene	ND	170	17	ug/kg	
85-01-8	Phenanthrene	ND	170	17	ug/kg	
129-00-0	Pyrene	ND	170	17	ug/kg	

CAS No.	Surrogate Recoveries		Limits
367-12-4	2-Fluorophenol	62%	40-102%
4165-62-2	Phenol-d5	75%	41-100%
118-79-6	2,4,6-Tribromophenol	92%	42-108%
4165-60-0	Nitrobenzene-d5	80%	40-105%
321-60-8	2-Fluorobiphenyl	75%	43-107%
1718-51-0	Terphenyl-d14	92%	45-119%

Method Blank Summary

Job Number: FA23258
Account: FPMRNYR FPM Remediations
Project: HM-AZ PBR Holloman AFB; Alamogordo, NM

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP55584-MB	X039419.D	1	04/07/15	MV	04/03/15	OP55584	SX1832

The QC reported here applies to the following samples: **Method:** SW846 8270D

FA23258-35, FA23258-37, FA23258-39, FA23258-41

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	ND	170	17	ug/kg	
208-96-8	Acenaphthylene	ND	170	17	ug/kg	
120-12-7	Anthracene	ND	170	17	ug/kg	
56-55-3	Benzo(a)anthracene	ND	170	17	ug/kg	
50-32-8	Benzo(a)pyrene	ND	170	17	ug/kg	
205-99-2	Benzo(b)fluoranthene	ND	170	17	ug/kg	
191-24-2	Benzo(g,h,i)perylene	ND	170	17	ug/kg	
207-08-9	Benzo(k)fluoranthene	ND	170	17	ug/kg	
218-01-9	Chrysene	ND	170	17	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	170	17	ug/kg	
206-44-0	Fluoranthene	ND	170	17	ug/kg	
86-73-7	Fluorene	ND	170	17	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	170	17	ug/kg	
90-12-0	1-Methylnaphthalene	ND	170	17	ug/kg	
91-57-6	2-Methylnaphthalene	ND	170	17	ug/kg	
91-20-3	Naphthalene	ND	170	17	ug/kg	
85-01-8	Phenanthrene	ND	170	17	ug/kg	
129-00-0	Pyrene	ND	170	17	ug/kg	

CAS No.	Surrogate Recoveries		Limits
367-12-4	2-Fluorophenol	45%	40-102%
4165-62-2	Phenol-d5	56%	41-100%
118-79-6	2,4,6-Tribromophenol	49%	42-108%
4165-60-0	Nitrobenzene-d5	47%	40-105%
321-60-8	2-Fluorobiphenyl	47%	43-107%
1718-51-0	Terphenyl-d14	58%	45-119%

Method Blank Summary

Job Number: FA23258
Account: FPMRNYR FPM Remediations
Project: HM-AZ PBR Holloman AFB; Alamogordo, NM

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP55593-MB	T017741.D	1	04/07/15	MG	04/04/15	OP55593	ST811

The QC reported here applies to the following samples: **Method:** SW846 8270D BY SIM

FA23258-14

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	ND	0.80	0.32	ug/l	
208-96-8	Acenaphthylene	ND	0.80	0.32	ug/l	
120-12-7	Anthracene	ND	0.80	0.20	ug/l	
56-55-3	Benzo(a)anthracene	ND	0.16	0.032	ug/l	
50-32-8	Benzo(a)pyrene	ND	0.16	0.032	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	0.16	0.032	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.16	0.032	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	0.16	0.032	ug/l	
218-01-9	Chrysene	ND	0.16	0.032	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.16	0.032	ug/l	
206-44-0	Fluoranthene	ND	0.80	0.20	ug/l	
86-73-7	Fluorene	ND	0.80	0.20	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.16	0.032	ug/l	
90-12-0	1-Methylnaphthalene	ND	0.80	0.32	ug/l	
91-57-6	2-Methylnaphthalene	ND	0.80	0.32	ug/l	
91-20-3	Naphthalene	ND	0.80	0.32	ug/l	
85-01-8	Phenanthrene	ND	0.80	0.20	ug/l	
129-00-0	Pyrene	ND	0.80	0.20	ug/l	

CAS No.	Surrogate Recoveries		Limits
4165-60-0	Nitrobenzene-d5	83%	41-129%
321-60-8	2-Fluorobiphenyl	80%	41-118%
1718-51-0	Terphenyl-d14	89%	45-145%

Blank Spike Summary

Job Number: FA23258
Account: FPMRNYR FPM Remediations
Project: HM-AZ PBR Holloman AFB; Alamogordo, NM

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP55582-BS	L0681731.D	1	04/06/15	MV	04/03/15	OP55582	SL3631

The QC reported here applies to the following samples: **Method:** SW846 8270D

FA23258-1, FA23258-3, FA23258-5, FA23258-7, FA23258-8, FA23258-10, FA23258-12, FA23258-15, FA23258-17, FA23258-19, FA23258-21, FA23258-22, FA23258-23, FA23258-25, FA23258-27, FA23258-29, FA23258-31, FA23258-33

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	Limits
83-32-9	Acenaphthene	1670	1290	77	56-109
208-96-8	Acenaphthylene	1670	1270	76	56-106
120-12-7	Anthracene	1670	1280	77	61-110
56-55-3	Benzo(a)anthracene	1670	1520	91	66-111
50-32-8	Benzo(a)pyrene	1670	1410	85	59-104
205-99-2	Benzo(b)fluoranthene	1670	1460	88	67-113
191-24-2	Benzo(g,h,i)perylene	1670	1510	91	67-113
207-08-9	Benzo(k)fluoranthene	1670	1420	85	67-114
218-01-9	Chrysene	1670	1480	89	65-112
53-70-3	Dibenzo(a,h)anthracene	1670	1490	89	68-115
206-44-0	Fluoranthene	1670	1360	82	60-108
86-73-7	Fluorene	1670	1270	76	58-109
193-39-5	Indeno(1,2,3-cd)pyrene	1670	1370	82	66-116
90-12-0	1-Methylnaphthalene	1670	1400	84	49-106
91-57-6	2-Methylnaphthalene	1670	1110	67	47-106
91-20-3	Naphthalene	1670	1080	65	44-104
85-01-8	Phenanthrene	1670	1280	77	63-111
129-00-0	Pyrene	1670	1500	90	65-115

CAS No.	Surrogate Recoveries	BSP	Limits
367-12-4	2-Fluorophenol	66%	40-102%
4165-62-2	Phenol-d5	84%	41-100%
118-79-6	2,4,6-Tribromophenol	74%	42-108%
4165-60-0	Nitrobenzene-d5	67%	40-105%
321-60-8	2-Fluorobiphenyl	69%	43-107%
1718-51-0	Terphenyl-d14	92%	45-119%

* = Outside of Control Limits.

Blank Spike Summary

Job Number: FA23258
Account: FPMRNYR FPM Remediations
Project: HM-AZ PBR Holloman AFB; Alamogordo, NM

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP55582-BS	L0681759.D	1	04/07/15	MV	04/03/15	OP55582	SL3632

The QC reported here applies to the following samples: **Method:** SW846 8270D

FA23258-1, FA23258-3, FA23258-5, FA23258-7, FA23258-8, FA23258-10, FA23258-12, FA23258-15, FA23258-17, FA23258-19, FA23258-21, FA23258-22, FA23258-23, FA23258-25, FA23258-27, FA23258-29, FA23258-31, FA23258-33

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	Limits
83-32-9	Acenaphthene	1670	1290	77	56-109
208-96-8	Acenaphthylene	1670	1180	71	56-106
120-12-7	Anthracene	1670	1310	79	61-110
56-55-3	Benzo(a)anthracene	1670	1510	91	66-111
50-32-8	Benzo(a)pyrene	1670	1390	83	59-104
205-99-2	Benzo(b)fluoranthene	1670	1390	83	67-113
191-24-2	Benzo(g,h,i)perylene	1670	1460	88	67-113
207-08-9	Benzo(k)fluoranthene	1670	1420	85	67-114
218-01-9	Chrysene	1670	1510	91	65-112
53-70-3	Dibenzo(a,h)anthracene	1670	1520	91	68-115
206-44-0	Fluoranthene	1670	1320	79	60-108
86-73-7	Fluorene	1670	1250	75	58-109
193-39-5	Indeno(1,2,3-cd)pyrene	1670	1440	86	66-116
90-12-0	1-Methylnaphthalene	1670	1420	85	49-106
91-57-6	2-Methylnaphthalene	1670	1140	68	47-106
91-20-3	Naphthalene	1670	1120	67	44-104
85-01-8	Phenanthrene	1670	1310	79	63-111
129-00-0	Pyrene	1670	1530	92	65-115

CAS No.	Surrogate Recoveries	BSP	Limits
367-12-4	2-Fluorophenol	59%	40-102%
4165-62-2	Phenol-d5	75%	41-100%
118-79-6	2,4,6-Tribromophenol	85%	42-108%
4165-60-0	Nitrobenzene-d5	70%	40-105%
321-60-8	2-Fluorobiphenyl	69%	43-107%
1718-51-0	Terphenyl-d14	93%	45-119%

* = Outside of Control Limits.

Blank Spike Summary

Job Number: FA23258
Account: FPMRNYR FPM Remediations
Project: HM-AZ PBR Holloman AFB; Alamogordo, NM

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP55584-BS	X039418.D	1	04/07/15	MV	04/03/15	OP55584	SX1832

The QC reported here applies to the following samples: **Method:** SW846 8270D

FA23258-35, FA23258-37, FA23258-39, FA23258-41

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	Limits
83-32-9	Acenaphthene	1670	1360	82	56-109
208-96-8	Acenaphthylene	1670	1370	82	56-106
120-12-7	Anthracene	1670	1410	85	61-110
56-55-3	Benzo(a)anthracene	1670	1540	92	66-111
50-32-8	Benzo(a)pyrene	1670	1530	92	59-104
205-99-2	Benzo(b)fluoranthene	1670	1510	91	67-113
191-24-2	Benzo(g,h,i)perylene	1670	1540	92	67-113
207-08-9	Benzo(k)fluoranthene	1670	1480	89	67-114
218-01-9	Chrysene	1670	1530	92	65-112
53-70-3	Dibenzo(a,h)anthracene	1670	1560	94	68-115
206-44-0	Fluoranthene	1670	1360	82	60-108
86-73-7	Fluorene	1670	1370	82	58-109
193-39-5	Indeno(1,2,3-cd)pyrene	1670	1390	83	66-116
90-12-0	1-Methylnaphthalene	1670	1590	95	49-106
91-57-6	2-Methylnaphthalene	1670	1320	79	47-106
91-20-3	Naphthalene	1670	1300	78	44-104
85-01-8	Phenanthrene	1670	1380	83	63-111
129-00-0	Pyrene	1670	1480	89	65-115

CAS No.	Surrogate Recoveries	BSP	Limits
367-12-4	2-Fluorophenol	73%	40-102%
4165-62-2	Phenol-d5	89%	41-100%
118-79-6	2,4,6-Tribromophenol	80%	42-108%
4165-60-0	Nitrobenzene-d5	74%	40-105%
321-60-8	2-Fluorobiphenyl	76%	43-107%
1718-51-0	Terphenyl-d14	92%	45-119%

* = Outside of Control Limits.

Blank Spike Summary

Job Number: FA23258
Account: FPMRNYR FPM Remediations
Project: HM-AZ PBR Holloman AFB; Alamogordo, NM

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch

The QC reported here applies to the following samples: **Method:** SW846 8270D BY SIM

FA23258-14

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: FA23258
Account: FPMRNYR FPM Remediations
Project: HM-AZ PBR Holloman AFB; Alamogordo, NM

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP55582-MS	L0681744.D	1	04/06/15	MV	04/03/15	OP55582	SL3631
OP55582-MSD	L0681745.D	1	04/06/15	MV	04/03/15	OP55582	SL3631
FA23258-33	L0681743.D	1	04/06/15	MV	04/03/15	OP55582	SL3631

The QC reported here applies to the following samples: **Method:** SW846 8270D

FA23258-1, FA23258-3, FA23258-5, FA23258-7, FA23258-8, FA23258-10, FA23258-12, FA23258-15, FA23258-17, FA23258-19, FA23258-21, FA23258-22, FA23258-23, FA23258-25, FA23258-27, FA23258-29, FA23258-31, FA23258-33

CAS No.	Compound	FA23258-33 ug/kg	Q	Spike ug/kg	MS ug/kg	MS %	Spike ug/kg	MSD ug/kg	MSD %	RPD	Limits Rec/RPD
83-32-9	Acenaphthene	200	U	2040	1520	74	2040	1640	81	8	56-109/23
208-96-8	Acenaphthylene	200	U	2040	1470	72	2040	1640	81	11	56-106/23
120-12-7	Anthracene	200	U	2040	1530	75	2040	1750	86	13	61-110/21
56-55-3	Benzo(a)anthracene	200	U	2040	1640	80	2040	1850	91	12	66-111/23
50-32-8	Benzo(a)pyrene	200	U	2040	1470	72	2040	1660	81	12	59-104/23
205-99-2	Benzo(b)fluoranthene	200	U	2040	1540	75	2040	1690	83	9	67-113/24
191-24-2	Benzo(g,h,i)perylene	200	U	2040	1500	73	2040	1760	86	16	67-113/21
207-08-9	Benzo(k)fluoranthene	200	U	2040	1520	74	2040	1710	84	12	67-114/22
218-01-9	Chrysene	200	U	2040	1630	80	2040	1850	91	13	65-112/25
53-70-3	Dibenzo(a,h)anthracene	200	U	2040	1510	74	2040	1790	88	17	68-115/23
206-44-0	Fluoranthene	200	U	2040	1480	72	2040	1680	82	13	60-108/25
86-73-7	Fluorene	200	U	2040	1450	71	2040	1620	80	11	58-109/21
193-39-5	Indeno(1,2,3-cd)pyrene	200	U	2040	1460	71	2040	1660	81	13	66-116/22
90-12-0	1-Methylnaphthalene	200	U	2040	1540	75	2040	1700	83	10	49-106/26
91-57-6	2-Methylnaphthalene	200	U	2040	1220	60	2040	1400	69	14	47-106/27
91-20-3	Naphthalene	200	U	2040	1260	62	2040	1370	67	8	44-104/27
85-01-8	Phenanthrene	200	U	2040	1530	75	2040	1730	85	12	63-111/22
129-00-0	Pyrene	200	U	2040	1740	85	2040	1870	92	7	65-115/25

CAS No.	Surrogate Recoveries	MS	MSD	FA23258-33	Limits
367-12-4	2-Fluorophenol	56%	66%		40-102%
4165-62-2	Phenol-d5	71%	85%		41-100%
118-79-6	2,4,6-Tribromophenol	79%	87%		42-108%
4165-60-0	Nitrobenzene-d5	64%	69%	69%	40-105%
321-60-8	2-Fluorobiphenyl	69%	75%	71%	43-107%
1718-51-0	Terphenyl-d14	90%	92%	85%	45-119%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: FA23258
Account: FPMRNYR FPM Remediations
Project: HM-AZ PBR Holloman AFB; Alamogordo, NM

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP55584-MS	X039421.D	1	04/07/15	MV	04/03/15	OP55584	SX1832
OP55584-MSD	X039422.D	1	04/07/15	MV	04/03/15	OP55584	SX1832
FA23258-35	X039451.D	1	04/08/15	MV	04/03/15	OP55584	SX1833

The QC reported here applies to the following samples: **Method:** SW846 8270D

FA23258-35, FA23258-37, FA23258-39, FA23258-41

CAS No.	Compound	FA23258-35 ug/kg	Q	Spike ug/kg	MS ug/kg	MS %	Spike ug/kg	MSD ug/kg	MSD %	RPD	Limits Rec/RPD
83-32-9	Acenaphthene	200	U	1960	1540	79	1950	1550	79	1	56-109/23
208-96-8	Acenaphthylene	200	U	1960	1510	77	1950	1540	79	2	56-106/23
120-12-7	Anthracene	200	U	1960	1590	81	1950	1560	80	2	61-110/21
56-55-3	Benzo(a)anthracene	200	U	1960	1750	89	1950	1710	88	2	66-111/23
50-32-8	Benzo(a)pyrene	200	U	1960	1640	84	1950	1690	87	3	59-104/23
205-99-2	Benzo(b)fluoranthene	200	U	1960	1670	85	1950	1690	87	1	67-113/24
191-24-2	Benzo(g,h,i)perylene	200	U	1960	1690	86	1950	1730	89	2	67-113/21
207-08-9	Benzo(k)fluoranthene	200	U	1960	1660	85	1950	1680	86	1	67-114/22
218-01-9	Chrysene	200	U	1960	1700	87	1950	1720	88	1	65-112/25
53-70-3	Dibenzo(a,h)anthracene	200	U	1960	1710	87	1950	1710	88	0	68-115/23
206-44-0	Fluoranthene	200	U	1960	1610	82	1950	1580	81	2	60-108/25
86-73-7	Fluorene	200	U	1960	1540	79	1950	1550	79	1	58-109/21
193-39-5	Indeno(1,2,3-cd)pyrene	200	U	1960	1580	81	1950	1620	83	3	66-116/22
90-12-0	1-Methylnaphthalene	200	U	1960	1740	89	1950	1790	92	3	49-106/26
91-57-6	2-Methylnaphthalene	200	U	1960	1430	73	1950	1430	73	0	47-106/27
91-20-3	Naphthalene	200	U	1960	1410	72	1950	1450	74	3	44-104/27
85-01-8	Phenanthrene	200	U	1960	1610	82	1950	1580	81	2	63-111/22
129-00-0	Pyrene	200	U	1960	1650	84	1950	1690	87	2	65-115/25

CAS No.	Surrogate Recoveries	MS	MSD	FA23258-35	Limits
367-12-4	2-Fluorophenol	70%	69%		40-102%
4165-62-2	Phenol-d5	85%	84%		41-100%
118-79-6	2,4,6-Tribromophenol	78%	79%		42-108%
4165-60-0	Nitrobenzene-d5	71%	72%	70%	40-105%
321-60-8	2-Fluorobiphenyl	74%	73%	68%	43-107%
1718-51-0	Terphenyl-d14	91%	91%	91%	45-119%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: FA23258
Account: FPMRNYR FPM Remediations
Project: HM-AZ PBR Holloman AFB; Alamogordo, NM

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP55593-MS	T017746.D	1	04/07/15	MG	04/04/15	OP55593	ST811
OP55593-MSD	T017747.D	1	04/07/15	MG	04/04/15	OP55593	ST811
FA23271-13 [a]	T017743.D	1	04/07/15	MG	04/04/15	OP55593	ST811

The QC reported here applies to the following samples: **Method:** SW846 8270D BY SIM

FA23258-14

CAS No.	Compound	FA23271-13 ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
83-32-9	Acenaphthene	0.80	U	32	28.7	90 [b]	16	11.3	71	24* [c]	54-128/23
208-96-8	Acenaphthylene	0.80	U	32	28.3	88 [b]	16	10.6	66	29* [c]	55-128/23
120-12-7	Anthracene	0.80	U	16	13.9	87 [b]	8	6.4	80	8 [c]	57-129/22
56-55-3	Benzo(a)anthracene	0.16	U	16	16.7	104 [b]	8	7.9	99	5 [c]	60-134/18
50-32-8	Benzo(a)pyrene	0.16	U	16	14.6	91 [b]	8	8.1	101	10 [c]	58-131/20
205-99-2	Benzo(b)fluoranthene	0.16	U	16	15.7	98 [b]	8	9.1	114	15 [c]	62-139/21
191-24-2	Benzo(g,h,i)perylene	0.16	U	16	11.8	74 [b]	8	8.5	106	36* [c]	48-136/23
207-08-9	Benzo(k)fluoranthene	0.16	U	16	15.1	94 [b]	8	9.0	113	18 [c]	60-139/19
218-01-9	Chrysene	0.16	U	16	16.9	106 [b]	8	8.8	110	4 [c]	64-136/19
53-70-3	Dibenzo(a,h)anthracene	0.16	U	16	11.1	69 [b]	8	8.0	100	37* [c]	46-131/25
206-44-0	Fluoranthene	0.80	U	32	30.9	97 [b]	16	15.5	97	0 [c]	59-140/18
86-73-7	Fluorene	0.80	U	32	31.2	98 [b]	16	12.6	79	21 [c]	55-129/23
193-39-5	Indeno(1,2,3-cd)pyrene	0.16	U	16	11.8	74 [b]	8	8.2	103	33* [c]	46-139/24
90-12-0	1-Methylnaphthalene	0.80	U	32	29.2	91 [b]	16	10.7	67	30* [c]	52-128/22
91-57-6	2-Methylnaphthalene	0.80	U	32	27.9	87 [b]	16	10.1	63	32* [c]	50-117/23
91-20-3	Naphthalene	0.80	U	32	27.3	85 [b]	16	9.8	61	33* [c]	52-124/23
85-01-8	Phenanthrene	0.80	U	32	29.7	93 [b]	16	13.8	86	8 [c]	60-130/22
129-00-0	Pyrene	0.80	U	32	31.1	97 [b]	16	15.1	94	3 [c]	53-134/18

CAS No.	Surrogate Recoveries	MS	MSD	FA23271-13	Limits
4165-60-0	Nitrobenzene-d5	88%	59%	66%	41-129%
321-60-8	2-Fluorobiphenyl	88%	61%	70%	41-118%
1718-51-0	Terphenyl-d14	99%	92%	94%	45-145%

(a) Associated BS not spiked, recoveries with limits in MS/MSD.
(b) Recovery corrected for double spike.
(c) RPD calcuated from Percent Recovery.

* = Outside of Control Limits.

Instrument Performance Check (DFTPP)

Job Number: FA23258
Account: FPMRNYR FPM Remediations
Project: HM-AZ PBR Holloman AFB; Alamogordo, NM

Sample: SL3629-DFTPP
Lab File ID: L0681696.D
Instrument ID: GCMSL
Injection Date: 04/02/15
Injection Time: 10:41

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
51	30.0 - 60.0% of mass 198	63053	41.1		Pass
68	Less than 2.0% of mass 69	0	0.00	(0.00) [a]	Pass
69	Mass 69 relative abundance	61453	40.0		Pass
70	Less than 2.0% of mass 69	339	0.22	(0.55) [a]	Pass
127	40.0 - 60.0% of mass 198	72960	47.5		Pass
197	Less than 1.0% of mass 198	0	0.00		Pass
198	Base peak, 100% relative abundance	153541	100.0		Pass
199	5.0 - 9.0% of mass 198	10407	6.78		Pass
275	10.0 - 30.0% of mass 198	31816	20.7		Pass
365	1.0 - 100.0% of mass 198	3298	2.15		Pass
441	Present, but less than mass 443	1503	0.98	(6.04) [b]	Pass
442	40.0 - 100.0% of mass 198	118800	77.4		Pass
443	17.0 - 23.0% of mass 442	24892	16.2	(21.0) [c]	Pass

(a) Value is % of mass 69
(b) Value is % of mass 443
(c) Value is % of mass 442

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
SL3629-IC3629	L0681697.D	04/02/15	11:14	00:33	Initial cal 5
SL3629-IC3629	L0681698.D	04/02/15	11:41	01:00	Initial cal 10
SL3629-IC3629	L0681699.D	04/02/15	12:08	01:27	Initial cal 25
SL3629-ICC3629	L0681700.D	04/02/15	12:36	01:55	Initial cal 50
SL3629-IC3629	L0681701.D	04/02/15	13:03	02:22	Initial cal 60
SL3629-IC3629	L0681702.D	04/02/15	13:30	02:49	Initial cal 75
SL3629-IC3629	L0681703.D	04/02/15	13:57	03:16	Initial cal 100
SL3629-ICV3629	L0681704.D	04/02/15	14:34	03:53	Initial cal verification 50
SL3629-ICV3629	L0681705.D	04/02/15	15:02	04:21	Initial cal verification 50
ZZZZZZ	L0681707.D	04/02/15	15:57	05:16	(unrelated sample)
ZZZZZZ	L0681708.D	04/02/15	16:24	05:43	(unrelated sample)
ZZZZZZ	L0681709.D	04/02/15	16:51	06:10	(unrelated sample)
ZZZZZZ	L0681710.D	04/02/15	17:19	06:38	(unrelated sample)
ZZZZZZ	L0681711.D	04/02/15	17:46	07:05	(unrelated sample)
ZZZZZZ	L0681712.D	04/02/15	18:13	07:32	(unrelated sample)
ZZZZZZ	L0681713.D	04/02/15	18:40	07:59	(unrelated sample)

Instrument Performance Check (DFTPP)

Job Number: FA23258
Account: FPMRNYR FPM Remediations
Project: HM-AZ PBR Holloman AFB; Alamogordo, NM

Sample: SL3630-DFTPP
Lab File ID: L0681719.D
Instrument ID: GCMSL
Injection Date: 04/03/15
Injection Time: 13:25

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
51	30.0 - 60.0% of mass 198	42122	36.8		Pass
68	Less than 2.0% of mass 69	70	0.06	(0.16) [a]	Pass
69	Mass 69 relative abundance	43346	37.9		Pass
70	Less than 2.0% of mass 69	144	0.13	(0.33) [a]	Pass
127	40.0 - 60.0% of mass 198	54032	47.2		Pass
197	Less than 1.0% of mass 198	0	0.00		Pass
198	Base peak, 100% relative abundance	114445	100.0		Pass
199	5.0 - 9.0% of mass 198	7639	6.67		Pass
275	10.0 - 30.0% of mass 198	23135	20.2		Pass
365	1.0 - 100.0% of mass 198	2783	2.43		Pass
441	Present, but less than mass 443	2706	2.36	(15.3) [b]	Pass
442	40.0 - 100.0% of mass 198	93944	82.1		Pass
443	17.0 - 23.0% of mass 442	17673	15.4	(18.8) [c]	Pass

(a) Value is % of mass 69
(b) Value is % of mass 443
(c) Value is % of mass 442

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
SL3630-CC3629	L0681720.D	04/03/15	13:42	00:17	Continuing cal 50
SL3630-ICV3629	L0681725.D	04/03/15	16:25	03:00	Initial cal verification 50

Instrument Performance Check (DFTPP)

Job Number: FA23258
Account: FPMRNYR FPM Remediations
Project: HM-AZ PBR Holloman AFB; Alamogordo, NM

Sample: SL3631-DFTPP
Lab File ID: L0681729.D
Instrument ID: GCMSL
Injection Date: 04/06/15
Injection Time: 09:43

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
51	30.0 - 60.0% of mass 198	43506	36.7		Pass
68	Less than 2.0% of mass 69	277	0.23	(0.65) [a]	Pass
69	Mass 69 relative abundance	42899	36.2		Pass
70	Less than 2.0% of mass 69	171	0.14	(0.40) [a]	Pass
127	40.0 - 60.0% of mass 198	53058	44.8		Pass
197	Less than 1.0% of mass 198	0	0.00		Pass
198	Base peak, 100% relative abundance	118453	100.0		Pass
199	5.0 - 9.0% of mass 198	8574	7.24		Pass
275	10.0 - 30.0% of mass 198	24369	20.6		Pass
365	1.0 - 100.0% of mass 198	2446	2.06		Pass
441	Present, but less than mass 443	6474	5.47	(31.9) [b]	Pass
442	40.0 - 100.0% of mass 198	102197	86.3		Pass
443	17.0 - 23.0% of mass 442	20290	17.1	(19.9) [c]	Pass

(a) Value is % of mass 69
(b) Value is % of mass 443
(c) Value is % of mass 442

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
SL3631-CC3629	L0681730.D	04/06/15	09:58	00:15	Continuing cal 50
OP55582-BS	L0681731.D	04/06/15	10:25	00:42	Blank Spike
OP55582-MB	L0681732.D	04/06/15	10:53	01:10	Method Blank
OP55578-BS	L0681733.D	04/06/15	11:20	01:37	Blank Spike
OP55578-MB	L0681734.D	04/06/15	11:47	02:04	Method Blank
ZZZZZZ	L0681735.D	04/06/15	12:14	02:31	(unrelated sample)
ZZZZZZ	L0681736.D	04/06/15	12:41	02:58	(unrelated sample)
ZZZZZZ	L0681737.D	04/06/15	14:36	04:53	(unrelated sample)
FA23230-20	L0681738.D	04/06/15	15:04	05:21	(used for QC only; not part of job FA23258)
OP55578-MS	L0681739.D	04/06/15	15:31	05:48	Matrix Spike
OP55578-MSD	L0681740.D	04/06/15	15:59	06:16	Matrix Spike Duplicate
ZZZZZZ	L0681741.D	04/06/15	16:26	06:43	(unrelated sample)
FA23258-33	L0681743.D	04/06/15	17:21	07:38	TS862-16
OP55582-MS	L0681744.D	04/06/15	17:49	08:06	Matrix Spike
OP55582-MSD	L0681745.D	04/06/15	18:16	08:33	Matrix Spike Duplicate
ZZZZZZ	L0681746.D	04/06/15	18:43	09:00	(unrelated sample)
ZZZZZZ	L0681747.D	04/06/15	19:11	09:28	(unrelated sample)
ZZZZZZ	L0681748.D	04/06/15	19:38	09:55	(unrelated sample)
ZZZZZZ	L0681749.D	04/06/15	20:05	10:22	(unrelated sample)

Instrument Performance Check (DFTPP)

Job Number: FA23258
Account: FPMRNYR FPM Remediations
Project: HM-AZ PBR Holloman AFB; Alamogordo, NM

Sample: SL3631-DFTPP
Lab File ID: L0681729.D
Instrument ID: GCMSL
Injection Date: 04/06/15
Injection Time: 09:43

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
FA23258-1	L0681750.D	04/06/15	20:32	10:49	TS862-1
FA23258-3	L0681751.D	04/06/15	20:59	11:16	TS862-2
FA23258-5	L0681752.D	04/06/15	21:27	11:44	TS862-3
SL3631-ECC3629	L0681755.D	04/06/15	22:48	13:05	Ending cal 50

Instrument Performance Check (DFTPP)

Job Number: FA23258
Account: FPMRNYR FPM Remediations
Project: HM-AZ PBR Holloman AFB; Alamogordo, NM

Sample: SL3632-DFTPP
Lab File ID: L0681757.D
Instrument ID: GCMSL
Injection Date: 04/07/15
Injection Time: 11:53

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
51	30.0 - 60.0% of mass 198	63624	37.3		Pass
68	Less than 2.0% of mass 69	0	0.00	(0.00) [a]	Pass
69	Mass 69 relative abundance	62643	36.7		Pass
70	Less than 2.0% of mass 69	179	0.10	(0.29) [a]	Pass
127	40.0 - 60.0% of mass 198	79613	46.7		Pass
197	Less than 1.0% of mass 198	0	0.00		Pass
198	Base peak, 100% relative abundance	170653	100.0		Pass
199	5.0 - 9.0% of mass 198	11516	6.75		Pass
275	10.0 - 30.0% of mass 198	35056	20.5		Pass
365	1.0 - 100.0% of mass 198	4211	2.47		Pass
441	Present, but less than mass 443	5443	3.19	(18.0) [b]	Pass
442	40.0 - 100.0% of mass 198	148104	86.8		Pass
443	17.0 - 23.0% of mass 442	30306	17.8	(20.5) [c]	Pass

(a) Value is % of mass 69
(b) Value is % of mass 443
(c) Value is % of mass 442

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
SL3632-CC3629	L0681758.D	04/07/15	12:09	00:16	Continuing cal 50
OP55582-BS	L0681759.D	04/07/15	12:36	00:43	Blank Spike
OP55582-MB	L0681760.D	04/07/15	13:04	01:11	Method Blank
ZZZZZZ	L0681761.D	04/07/15	13:31	01:38	(unrelated sample)
FA23258-7	L0681762.D	04/07/15	13:58	02:05	TS862-4
FA23258-8	L0681763.D	04/07/15	14:26	02:33	TS862-104
FA23258-10	L0681764.D	04/07/15	14:53	03:00	TS862-5
FA23258-12	L0681765.D	04/07/15	15:21	03:28	TS862-6
FA23258-15	L0681766.D	04/07/15	15:48	03:55	TS862-7
FA23258-17	L0681767.D	04/07/15	16:16	04:23	TS862-8
FA23258-19	L0681768.D	04/07/15	16:43	04:50	TS862-9
FA23258-21	L0681769.D	04/07/15	17:11	05:18	TS862-10
FA23258-22	L0681770.D	04/07/15	17:38	05:45	TS862-11
FA23258-23	L0681771.D	04/07/15	18:05	06:12	TS862-107
FA23258-25	L0681772.D	04/07/15	18:33	06:40	TS862-12
FA23258-27	L0681773.D	04/07/15	19:00	07:07	TS862-13
FA23258-29	L0681774.D	04/07/15	19:27	07:34	TS862-14
FA23258-31	L0681775.D	04/07/15	19:54	08:01	TS862-15
ZZZZZZ	L0681776.D	04/07/15	20:21	08:28	(unrelated sample)

Instrument Performance Check (DFTPP)

Job Number: FA23258
Account: FPMRNYR FPM Remediations
Project: HM-AZ PBR Holloman AFB; Alamogordo, NM

Sample: SL3632-DFTPP
Lab File ID: L0681757.D
Instrument ID: GCMSL
Injection Date: 04/07/15
Injection Time: 11:53

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
ZZZZZZ	L0681777.D	04/07/15	20:49	08:56	(unrelated sample)
SL3632-ECC3629	L0681778.D	04/07/15	21:16	09:23	Ending cal 50

Instrument Performance Check (DFTPP)

Job Number: FA23258
Account: FPMRNYR FPM Remediations
Project: HM-AZ PBR Holloman AFB; Alamogordo, NM

Sample: ST809-DFTPP
Lab File ID: T017697.D
Instrument ID: GCMST
Injection Date: 04/01/15
Injection Time: 13:13

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
51	30.0 - 60.0% of mass 198	41981	35.3		Pass
68	Less than 2.0% of mass 69	0	0.00	(0.00) [a]	Pass
69	Mass 69 relative abundance	46325	39.0		Pass
70	Less than 2.0% of mass 69	123	0.10	(0.27) [a]	Pass
127	40.0 - 60.0% of mass 198	59784	50.3		Pass
197	Less than 1.0% of mass 198	0	0.00		Pass
198	Base peak, 100% relative abundance	118845	100.0		Pass
199	5.0 - 9.0% of mass 198	7986	6.72		Pass
275	10.0 - 30.0% of mass 198	29112	24.5		Pass
365	1.0 - 100.0% of mass 198	2815	2.37		Pass
441	Present, but less than mass 443	6542	5.50	(48.7) [b]	Pass
442	40.0 - 100.0% of mass 198	68149	57.3		Pass
443	17.0 - 23.0% of mass 442	13420	11.3	(19.7) [c]	Pass

(a) Value is % of mass 69
(b) Value is % of mass 443
(c) Value is % of mass 442

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
ST809-IC809	T017698.D	04/01/15	13:35	00:22	Initial cal 1
ST809-IC809	T017699.D	04/01/15	14:05	00:52	Initial cal 2
ST809-IC809	T017700.D	04/01/15	14:35	01:22	Initial cal 3
ST809-ICC809	T017701.D	04/01/15	15:06	01:53	Initial cal 4
ST809-IC809	T017702.D	04/01/15	15:36	02:23	Initial cal 5
ST809-IC809	T017703.D	04/01/15	16:07	02:54	Initial cal 6
ST809-IC809	T017704.D	04/01/15	16:37	03:24	Initial cal 7
ST809-ICV809	T017706.D	04/01/15	17:38	04:25	Initial cal verification 4

Instrument Performance Check (DFTPP)

Job Number: FA23258
Account: FPMRNYR FPM Remediations
Project: HM-AZ PBR Holloman AFB; Alamogordo, NM

Sample: ST811-DFTPP
Lab File ID: T017723.D
Instrument ID: GCMST
Injection Date: 04/07/15
Injection Time: 10:07

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
51	30.0 - 60.0% of mass 198	47900	30.7		Pass
68	Less than 2.0% of mass 69	0	0.00	(0.00) [a]	Pass
69	Mass 69 relative abundance	54218	34.8		Pass
70	Less than 2.0% of mass 69	80	0.05	(0.15) [a]	Pass
127	40.0 - 60.0% of mass 198	72960	46.8		Pass
197	Less than 1.0% of mass 198	0	0.00		Pass
198	Base peak, 100% relative abundance	155970	100.0		Pass
199	5.0 - 9.0% of mass 198	10520	6.74		Pass
275	10.0 - 30.0% of mass 198	40304	25.8		Pass
365	1.0 - 100.0% of mass 198	3906	2.50		Pass
441	Present, but less than mass 443	16823	10.8	(85.0) [b]	Pass
442	40.0 - 100.0% of mass 198	102312	65.6		Pass
443	17.0 - 23.0% of mass 442	19803	12.7	(19.4) [c]	Pass

(a) Value is % of mass 69
(b) Value is % of mass 443
(c) Value is % of mass 442

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
ST811-CC809	T017724.D	04/07/15	10:26	00:19	Continuing cal 5
OP55540-BS	T017725.D	04/07/15	11:09	01:02	Blank Spike
OP55540-MB	T017726.D	04/07/15	11:39	01:32	Method Blank
ZZZZZZ	T017727.D	04/07/15	12:10	02:03	(unrelated sample)
ZZZZZZ	T017733.D	04/07/15	15:13	05:06	(unrelated sample)
ZZZZZZ	T017734.D	04/07/15	15:43	05:36	(unrelated sample)
ZZZZZZ	T017735.D	04/07/15	16:14	06:07	(unrelated sample)
OP55505-MS	T017737.D	04/07/15	17:15	07:08	Matrix Spike
OP55505-MSD	T017738.D	04/07/15	17:46	07:39	Matrix Spike Duplicate
ZZZZZZ	T017739.D	04/07/15	18:16	08:09	(unrelated sample)
OP55593-BS	T017740.D	04/07/15	18:46	08:39	Blank Spike
OP55593-MB	T017741.D	04/07/15	19:16	09:09	Method Blank
FA23258-14	T017742.D	04/07/15	19:46	09:39	TS862-EB1
FA23271-13	T017743.D	04/07/15	20:17	10:10	(used for QC only; not part of job FA23258)

Instrument Performance Check (DFTPP)

Job Number: FA23258
Account: FPMRNYR FPM Remediations
Project: HM-AZ PBR Holloman AFB; Alamogordo, NM

Sample: ST811-DFTPP
Lab File ID: T017744.D
Instrument ID: GCMST
Injection Date: 04/07/15
Injection Time: 20:40

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
51	30.0 - 60.0% of mass 198	60451	31.5		Pass
68	Less than 2.0% of mass 69	0	0.00	(0.00) [a]	Pass
69	Mass 69 relative abundance	67373	35.1		Pass
70	Less than 2.0% of mass 69	149	0.08	(0.22) [a]	Pass
127	40.0 - 60.0% of mass 198	91245	47.5		Pass
197	Less than 1.0% of mass 198	0	0.00		Pass
198	Base peak, 100% relative abundance	192021	100.0		Pass
199	5.0 - 9.0% of mass 198	12951	6.74		Pass
275	10.0 - 30.0% of mass 198	49032	25.5		Pass
365	1.0 - 100.0% of mass 198	4604	2.40		Pass
441	Present, but less than mass 443	19042	9.92	(86.5) [b]	Pass
442	40.0 - 100.0% of mass 198	114496	59.6		Pass
443	17.0 - 23.0% of mass 442	22003	11.5	(19.2) [c]	Pass

(a) Value is % of mass 69
(b) Value is % of mass 443
(c) Value is % of mass 442

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
ST811-CC809	T017745.D	04/07/15	21:02	00:22	Continuing cal 5
OP55593-MS	T017746.D	04/07/15	21:32	00:52	Matrix Spike
OP55593-MSD	T017747.D	04/07/15	22:02	01:22	Matrix Spike Duplicate
OP55576-BS	T017748.D	04/07/15	22:32	01:52	Blank Spike
OP55576-MB	T017749.D	04/07/15	23:02	02:22	Method Blank
ZZZZZZ	T017750.D	04/07/15	23:32	02:52	(unrelated sample)
ZZZZZZ	T017751.D	04/08/15	00:02	03:22	(unrelated sample)
ZZZZZZ	T017752.D	04/08/15	00:33	03:53	(unrelated sample)
FA23262-2	T017753.D	04/08/15	01:03	04:23	(used for QC only; not part of job FA23258)
OP55576-MS	T017754.D	04/08/15	01:33	04:53	Matrix Spike
OP55576-MSD	T017755.D	04/08/15	02:02	05:22	Matrix Spike Duplicate
ZZZZZZ	T017756.D	04/08/15	02:32	05:52	(unrelated sample)
ZZZZZZ	T017757.D	04/08/15	03:02	06:22	(unrelated sample)
ZZZZZZ	T017758.D	04/08/15	03:32	06:52	(unrelated sample)
ZZZZZZ	T017759.D	04/08/15	04:02	07:22	(unrelated sample)
ZZZZZZ	T017760.D	04/08/15	04:32	07:52	(unrelated sample)
ZZZZZZ	T017763.D	04/08/15	06:02	09:22	(unrelated sample)
ZZZZZZ	T017764.D	04/08/15	06:32	09:52	(unrelated sample)

Instrument Performance Check (DFTPP)

Job Number: FA23258
Account: FPMRNYR FPM Remediations
Project: HM-AZ PBR Holloman AFB; Alamogordo, NM

Sample: ST813-DFTPP
Lab File ID: T017841.D
Instrument ID: GCMST
Injection Date: 04/10/15
Injection Time: 13:33

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
51	30.0 - 60.0% of mass 198	68544	32.4		Pass
68	Less than 2.0% of mass 69	0	0.00	(0.00) [a]	Pass
69	Mass 69 relative abundance	73882	34.9		Pass
70	Less than 2.0% of mass 69	284	0.13	(0.38) [a]	Pass
127	40.0 - 60.0% of mass 198	101066	47.7		Pass
197	Less than 1.0% of mass 198	0	0.00		Pass
198	Base peak, 100% relative abundance	211701	100.0		Pass
199	5.0 - 9.0% of mass 198	14068	6.65		Pass
275	10.0 - 30.0% of mass 198	52826	25.0		Pass
365	1.0 - 100.0% of mass 198	5043	2.38		Pass
441	Present, but less than mass 443	20034	9.46	(86.2) [b]	Pass
442	40.0 - 100.0% of mass 198	120770	57.0		Pass
443	17.0 - 23.0% of mass 442	23253	11.0	(19.3) [c]	Pass

(a) Value is % of mass 69
(b) Value is % of mass 443
(c) Value is % of mass 442

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
ST813-IC813	T017842.D	04/10/15	13:52	00:19	Initial cal 1
ST813-IC813	T017843.D	04/10/15	14:23	00:50	Initial cal 2
ST813-IC813	T017844.D	04/10/15	14:53	01:20	Initial cal 3
ST813-ICC813	T017845.D	04/10/15	15:24	01:51	Initial cal 4
ST813-IC813	T017846.D	04/10/15	16:02	02:29	Initial cal 5
ST813-IC813	T017847.D	04/10/15	16:32	02:59	Initial cal 6
ST813-IC813	T017848.D	04/10/15	17:03	03:30	Initial cal 7
ST813-ICV813	T017849.D	04/10/15	17:34	04:01	Initial cal verification 4
OP55593-BS2	T017850.D	04/10/15	18:04	04:31	Blank Spike
OP55593-MB2	T017851.D	04/10/15	18:35	05:02	Method Blank
FA23258-14	T017852.D	04/10/15	19:05	05:32	TS862-EB1
ZZZZZZ	T017853.D	04/10/15	19:35	06:02	(unrelated sample)
ZZZZZZ	T017854.D	04/10/15	20:06	06:33	(unrelated sample)
ZZZZZZ	T017855.D	04/10/15	20:36	07:03	(unrelated sample)
ZZZZZZ	T017856.D	04/10/15	21:06	07:33	(unrelated sample)
ZZZZZZ	T017857.D	04/10/15	21:37	08:04	(unrelated sample)
ZZZZZZ	T017858.D	04/10/15	22:07	08:34	(unrelated sample)
ZZZZZZ	T017859.D	04/10/15	22:37	09:04	(unrelated sample)
ZZZZZZ	T017860.D	04/10/15	23:07	09:34	(unrelated sample)

Instrument Performance Check (DFTPP)

Job Number: FA23258
Account: FPMRNYR FPM Remediations
Project: HM-AZ PBR Holloman AFB; Alamogordo, NM

Sample: SX1826-DFTPP
Lab File ID: X039248.D
Instrument ID: GCMSX
Injection Date: 03/30/15
Injection Time: 14:50

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
51	30.0 - 60.0% of mass 198	134923	44.1		Pass
68	Less than 2.0% of mass 69	0	0.00	(0.00) [a]	Pass
69	Mass 69 relative abundance	130091	42.5		Pass
70	Less than 2.0% of mass 69	591	0.19	(0.45) [a]	Pass
127	40.0 - 60.0% of mass 198	151563	49.5		Pass
197	Less than 1.0% of mass 198	0	0.00		Pass
198	Base peak, 100% relative abundance	306112	100.0		Pass
199	5.0 - 9.0% of mass 198	20803	6.80		Pass
275	10.0 - 30.0% of mass 198	76677	25.0		Pass
365	1.0 - 100.0% of mass 198	8040	2.63		Pass
441	Present, but less than mass 443	47275	15.4	(77.4) [b]	Pass
442	40.0 - 100.0% of mass 198	288832	94.4		Pass
443	17.0 - 23.0% of mass 442	61083	20.0	(21.1) [c]	Pass

(a) Value is % of mass 69
(b) Value is % of mass 443
(c) Value is % of mass 442

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
SX1826-IC1826	X039249.D	03/30/15	15:05	00:15	Initial cal 5
SX1826-IC1826	X039250.D	03/30/15	15:29	00:39	Initial cal 10
SX1826-IC1826	X039251.D	03/30/15	15:54	01:04	Initial cal 25
SX1826-ICC1826	X039252.D	03/30/15	16:19	01:29	Initial cal 50
SX1826-IC1826	X039253.D	03/30/15	16:43	01:53	Initial cal 60
SX1826-IC1826	X039254.D	03/30/15	17:08	02:18	Initial cal 75
SX1826-IC1826	X039255.D	03/30/15	17:32	02:42	Initial cal 100
SX1826-ICV1826	X039256.D	03/30/15	17:57	03:07	Initial cal verification 50
SX1826-ICV1826	X039257.D	03/30/15	18:22	03:32	Initial cal verification 50
OP55454-BS	X039259.D	03/30/15	19:11	04:21	Blank Spike
OP55454-MB	X039260.D	03/30/15	19:35	04:45	Method Blank
ZZZZZZ	X039261.D	03/30/15	20:00	05:10	(unrelated sample)
OP55475-BS	X039262.D	03/30/15	20:24	05:34	Blank Spike
OP55475-MB	X039263.D	03/30/15	20:49	05:59	Method Blank
ZZZZZZ	X039264.D	03/30/15	21:13	06:23	(unrelated sample)
ZZZZZZ	X039266.D	03/30/15	22:02	07:12	(unrelated sample)
ZZZZZZ	X039267.D	03/30/15	22:26	07:36	(unrelated sample)
ZZZZZZ	X039268.D	03/30/15	22:51	08:01	(unrelated sample)
ZZZZZZ	X039269.D	03/30/15	23:15	08:25	(unrelated sample)

Instrument Performance Check (DFTPP)

Job Number: FA23258
Account: FPMRNYR FPM Remediations
Project: HM-AZ PBR Holloman AFB; Alamogordo, NM

Sample: SX1828-DFTPP
Lab File ID: X039302.D
Instrument ID: GCMSX
Injection Date: 04/01/15
Injection Time: 09:40

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
51	30.0 - 60.0% of mass 198	74706	45.2		Pass
68	Less than 2.0% of mass 69	0	0.00	(0.00) [a]	Pass
69	Mass 69 relative abundance	72376	43.8		Pass
70	Less than 2.0% of mass 69	244	0.15	(0.34) [a]	Pass
127	40.0 - 60.0% of mass 198	80235	48.5		Pass
197	Less than 1.0% of mass 198	665	0.40		Pass
198	Base peak, 100% relative abundance	165355	100.0		Pass
199	5.0 - 9.0% of mass 198	11317	6.84		Pass
275	10.0 - 30.0% of mass 198	38731	23.4		Pass
365	1.0 - 100.0% of mass 198	4135	2.50		Pass
441	Present, but less than mass 443	26141	15.8	(81.1) [b]	Pass
442	40.0 - 100.0% of mass 198	157845	95.5		Pass
443	17.0 - 23.0% of mass 442	32221	19.5	(20.4) [c]	Pass

(a) Value is % of mass 69
(b) Value is % of mass 443
(c) Value is % of mass 442

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
SX1828-CC1826	X039303.D	04/01/15	09:55	00:15	Continuing cal 50
SX1828-ICV1826	X039304.D	04/01/15	10:19	00:39	Initial cal verification 50
OP55531-BS	X039305.D	04/01/15	10:44	01:04	Blank Spike
OP55531-MB	X039306.D	04/01/15	11:08	01:28	Method Blank
ZZZZZZ	X039307.D	04/01/15	11:33	01:53	(unrelated sample)
ZZZZZZ	X039308.D	04/01/15	11:58	02:18	(unrelated sample)
ZZZZZZ	X039309.D	04/01/15	12:22	02:42	(unrelated sample)
ZZZZZZ	X039310.D	04/01/15	12:47	03:07	(unrelated sample)
ZZZZZZ	X039311.D	04/01/15	13:11	03:31	(unrelated sample)
ZZZZZZ	X039312.D	04/01/15	13:36	03:56	(unrelated sample)
FA23189-20	X039313.D	04/01/15	14:01	04:21	(used for QC only; not part of job FA23258)
ZZZZZZ	X039314.D	04/01/15	14:48	05:08	(unrelated sample)
ZZZZZZ	X039315.D	04/01/15	15:13	05:33	(unrelated sample)
ZZZZZZ	X039316.D	04/01/15	15:38	05:58	(unrelated sample)
ZZZZZZ	X039317.D	04/01/15	16:02	06:22	(unrelated sample)
ZZZZZZ	X039318.D	04/01/15	16:27	06:47	(unrelated sample)
OP55531-MS	X039319.D	04/01/15	16:52	07:12	Matrix Spike
OP55531-MSD	X039320.D	04/01/15	17:16	07:36	Matrix Spike Duplicate
ZZZZZZ	X039321.D	04/01/15	17:41	08:01	(unrelated sample)

Instrument Performance Check (DFTPP)

Job Number: FA23258
Account: FPMRNYR FPM Remediations
Project: HM-AZ PBR Holloman AFB; Alamogordo, NM

Sample: SX1828-DFTPP
Lab File ID: X039302.D
Instrument ID: GCMSX
Injection Date: 04/01/15
Injection Time: 09:40

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
ZZZZZZ	X039322.D	04/01/15	18:06	08:26	(unrelated sample)
ZZZZZZ	X039323.D	04/01/15	18:30	08:50	(unrelated sample)
ZZZZZZ	X039324.D	04/01/15	18:55	09:15	(unrelated sample)
ZZZZZZ	X039325.D	04/01/15	19:20	09:40	(unrelated sample)
ZZZZZZ	X039326.D	04/01/15	19:44	10:04	(unrelated sample)
SX1828-ECC1826	X039327.D	04/01/15	20:09	10:29	Ending cal 50

Instrument Performance Check (DFTPP)

Job Number: FA23258
Account: FPMRNYR FPM Remediations
Project: HM-AZ PBR Holloman AFB; Alamogordo, NM

Sample: SX1832-DFTPP
Lab File ID: X039415.D
Instrument ID: GCMSX
Injection Date: 04/07/15
Injection Time: 11:37

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
51	30.0 - 60.0% of mass 198	85268	46.6		Pass
68	Less than 2.0% of mass 69	0	0.00	(0.00) [a]	Pass
69	Mass 69 relative abundance	81979	44.8		Pass
70	Less than 2.0% of mass 69	202	0.11	(0.25) [a]	Pass
127	40.0 - 60.0% of mass 198	90405	49.4		Pass
197	Less than 1.0% of mass 198	0	0.00		Pass
198	Base peak, 100% relative abundance	182848	100.0		Pass
199	5.0 - 9.0% of mass 198	12807	7.00		Pass
275	10.0 - 30.0% of mass 198	42867	23.4		Pass
365	1.0 - 100.0% of mass 198	4797	2.62		Pass
441	Present, but less than mass 443	16789	9.18	(48.6) [b]	Pass
442	40.0 - 100.0% of mass 198	165320	90.4		Pass
443	17.0 - 23.0% of mass 442	34549	18.9	(20.9) [c]	Pass

(a) Value is % of mass 69
(b) Value is % of mass 443
(c) Value is % of mass 442

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
SX1832-CC1826	X039417.D	04/07/15	12:55	01:18	Continuing cal 50
OP55584-BS	X039418.D	04/07/15	13:24	01:47	Blank Spike
OP55584-MB	X039419.D	04/07/15	13:49	02:12	Method Blank
OP55584-MS	X039421.D	04/07/15	14:39	03:02	Matrix Spike
OP55584-MSD	X039422.D	04/07/15	15:04	03:27	Matrix Spike Duplicate
FA23258-37	X039423.D	04/07/15	15:29	03:52	TS862-18
FA23258-39	X039424.D	04/07/15	15:54	04:17	TS862-19
FA23258-41	X039425.D	04/07/15	16:19	04:42	TS862-20
ZZZZZZ	X039429.D	04/07/15	17:58	06:21	(unrelated sample)
ZZZZZZ	X039430.D	04/07/15	18:23	06:46	(unrelated sample)
ZZZZZZ	X039432.D	04/07/15	19:12	07:35	(unrelated sample)
ZZZZZZ	X039433.D	04/07/15	19:36	07:59	(unrelated sample)
ZZZZZZ	X039434.D	04/07/15	20:01	08:24	(unrelated sample)
ZZZZZZ	X039435.D	04/07/15	20:25	08:48	(unrelated sample)
OP55570-LS	X039436.D	04/07/15	20:50	09:13	Leachate Spike
SX1832-ECC1826	X039439.D	04/08/15	08:36	20:59	Ending cal 50

Instrument Performance Check (DFTPP)

Job Number: FA23258
Account: FPMRNYR FPM Remediations
Project: HM-AZ PBR Holloman AFB; Alamogordo, NM

Sample: SX1833-DFTPP
Lab File ID: X039440.D
Instrument ID: GCMSX
Injection Date: 04/08/15
Injection Time: 14:01

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
51	30.0 - 60.0% of mass 198	70149	47.5		Pass
68	Less than 2.0% of mass 69	472	0.32	(0.73) [a]	Pass
69	Mass 69 relative abundance	64912	43.9		Pass
70	Less than 2.0% of mass 69	371	0.25	(0.57) [a]	Pass
127	40.0 - 60.0% of mass 198	74843	50.7		Pass
197	Less than 1.0% of mass 198	0	0.00		Pass
198	Base peak, 100% relative abundance	147715	100.0		Pass
199	5.0 - 9.0% of mass 198	10337	7.00		Pass
275	10.0 - 30.0% of mass 198	35107	23.8		Pass
365	1.0 - 100.0% of mass 198	3373	2.28		Pass
441	Present, but less than mass 443	19757	13.4	(74.1) [b]	Pass
442	40.0 - 100.0% of mass 198	122864	83.2		Pass
443	17.0 - 23.0% of mass 442	26659	18.0	(21.7) [c]	Pass

(a) Value is % of mass 69
(b) Value is % of mass 443
(c) Value is % of mass 442

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
SX1833-CC1826	X039441.D	04/08/15	14:17	00:16	Continuing cal 50
OP55578-BS	X039443.D	04/08/15	15:06	01:05	Blank Spike
OP55578-MB	X039444.D	04/08/15	15:31	01:30	Method Blank
ZZZZZZ	X039445.D	04/08/15	15:56	01:55	(unrelated sample)
OP55599-BS	X039446.D	04/08/15	16:21	02:20	Blank Spike
OP55599-MB	X039447.D	04/08/15	16:46	02:45	Method Blank
FA23318-1	X039448.D	04/08/15	17:11	03:10	(used for QC only; not part of job FA23258)
OP55599-MS	X039449.D	04/08/15	17:36	03:35	Matrix Spike
OP55599-MSD	X039450.D	04/08/15	18:00	03:59	Matrix Spike Duplicate
FA23258-35	X039451.D	04/08/15	18:25	04:24	TS862-17
ZZZZZZ	X039452.D	04/08/15	18:50	04:49	(unrelated sample)
ZZZZZZ	X039453.D	04/08/15	19:14	05:13	(unrelated sample)
ZZZZZZ	X039454.D	04/08/15	19:39	05:38	(unrelated sample)
ZZZZZZ	X039455.D	04/08/15	20:03	06:02	(unrelated sample)
ZZZZZZ	X039456.D	04/08/15	20:28	06:27	(unrelated sample)
ZZZZZZ	X039457.D	04/08/15	20:53	06:52	(unrelated sample)
ZZZZZZ	X039458.D	04/08/15	21:17	07:16	(unrelated sample)
ZZZZZZ	X039459.D	04/08/15	21:42	07:41	(unrelated sample)
ZZZZZZ	X039460.D	04/08/15	22:06	08:05	(unrelated sample)

Instrument Performance Check (DFTPP)

Job Number: FA23258
Account: FPMRNYR FPM Remediations
Project: HM-AZ PBR Holloman AFB; Alamogordo, NM

Sample: SX1833-DFTPP
Lab File ID: X039440.D
Instrument ID: GCMSX
Injection Date: 04/08/15
Injection Time: 14:01

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
ZZZZZZ	X039461.D	04/08/15	22:31	08:30	(unrelated sample)
ZZZZZZ	X039462.D	04/08/15	22:55	08:54	(unrelated sample)
ZZZZZZ	X039463.D	04/08/15	23:19	09:18	(unrelated sample)
ZZZZZZ	X039464.D	04/08/15	23:44	09:43	(unrelated sample)
ZZZZZZ	X039465.D	04/09/15	00:08	10:07	(unrelated sample)
ZZZZZZ	X039466.D	04/09/15	00:33	10:32	(unrelated sample)
ZZZZZZ	X039467.D	04/09/15	00:57	10:56	(unrelated sample)
ZZZZZZ	X039468.D	04/09/15	01:21	11:20	(unrelated sample)
ZZZZZZ	X039469.D	04/09/15	01:46	11:45	(unrelated sample)
SX1833-ECC1826	X039475.D	04/09/15	04:12	14:11	Ending cal 50

Semivolatile Internal Standard Area Summary

Job Number: FA23258
Account: FPMRNYR FPM Remediations
Project: HM-AZ PBR Holloman AFB; Alamogordo, NM

Check Std:	SL3631-CC3629	**Injection Date:**	04/06/15
Lab File ID:	L0681730.D	**Injection Time:**	09:58
Instrument ID:	GCMSL	**Method:**	SW846 8270D

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT	IS 6 AREA	RT
Initial Cal [a]	217958	5.14	795807	6.33	462211	8.67	799313	11.14	644669	16.09	569020	18.60
Check Std [b]	226762	5.14	755123	6.33	442706	8.66	811657	11.14	628562	16.08	550624	18.60
Upper Limit [c]	453524	5.64	1510246	6.83	885412	9.16	1623314	11.64	1257124	16.58	1101248	19.10
Lower Limit [d]	113381	4.64	377562	5.83	221353	8.16	405829	10.64	314281	15.58	275312	18.10

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT	IS 6 AREA	RT
OP55582-BS	230692	5.14	804398	6.32	440686	8.66	764009	11.14	578218	16.08	492405	18.59
OP55582-MB	230562	5.14	830224	6.32	468767	8.66	741137	11.13	612417	16.07	491764	18.59
OP55578-BS	168230	5.14	624922	6.33	334141	8.66	596738	11.14	500139	16.08	424770	18.59
OP55578-MB	172324	5.14	624476	6.32	349902	8.66	556091	11.13	461529	16.06	396969	18.59
ZZZZZZ	227563	5.14	796348	6.32	437704	8.66	690653	11.14	486325	16.07	455373	18.59
ZZZZZZ	208967	5.14	750617	6.32	411695	8.66	673820	11.13	578284	16.07	487863	18.59
ZZZZZZ	232139	5.14	795072	6.33	461589	8.67	732026	11.14	613330	16.08	507341	18.60
FA23230-20	222855	5.14	794366	6.32	452939	8.66	734008	11.14	629637	16.07	576645	18.59
OP55578-MS	207250	5.15	802006	6.33	416659	8.66	723869	11.14	590347	16.08	545559	18.60
OP55578-MSD	204038	5.14	768450	6.33	401467	8.66	696681	11.14	562541	16.07	509785	18.59
ZZZZZZ	215254	5.14	742833	6.32	429775	8.66	654204	11.14	453551	16.09	392828	18.62
FA23258-33	317321	5.14	1127755	6.32	630782	8.66	911396	11.14	672003	16.08	534787	18.59
OP55582-MS	374585	5.15	1274864	6.33	618768	8.67	941874	11.15	663865	16.09	568823	18.60
OP55582-MSD	251603	5.14	920531	6.33	454934	8.66	704683	11.14	524311	16.08	463856	18.59
ZZZZZZ	237367	5.14	848504	6.32	487310	8.66	754289	11.14	618214	16.08	521225	18.59
ZZZZZZ	175583	5.15	655040	6.33	423003	8.66	704733	11.14	590179	16.08	503706	18.59
ZZZZZZ	199300	5.15	724292	6.33	450285	8.66	748769	11.14	638359	16.08	549328	18.59
ZZZZZZ	240735	5.14	866086	6.32	512098	8.66	824184	11.14	698669	16.08	588454	18.59
FA23258-1	237565	5.14	841712	6.32	487436	8.66	723560	11.14	603850	16.07	511109	18.59
FA23258-3	248708	5.14	913169	6.32	506386	8.66	770800	11.13	684403	16.07	565769	18.59
FA23258-5	320271	5.14	1156007	6.32	665972	8.66	1025433	11.14	919605	16.08	757741	18.59
SL3631-ECC3629	199005	5.15	702946	6.33	414747	8.67	756121	11.14	524064	16.08	496892	18.60

IS 1 = 1,4-Dichlorobenzene-d4
IS 2 = Naphthalene-d8
IS 3 = Acenaphthene-D10
IS 4 = Phenanthrene-d10
IS 5 = Chrysene-d12
IS 6 = Perylene-d12

(a) Initial Cal is: SL3629-ICC3629 L0681700.D 04/02/15 12:36
(b) Check Std Limit = -50 to + 100% of initial cal area.
(c) Upper Limit = + 100% of check standard area; Retention time + 0.5 minutes.

Semivolatile Internal Standard Area Summary

Job Number: FA23258
Account: FPMRNYR FPM Remediations
Project: HM-AZ PBR Holloman AFB; Alamogordo, NM

Check Std:	SL3631-CC3629	**Injection Date:**	04/06/15
Lab File ID:	L0681730.D	**Injection Time:**	09:58
Instrument ID:	GCMSL	**Method:**	SW846 8270D

Lab	IS 1		IS 2		IS 3		IS 4		IS 5		IS 6	
Sample ID	**AREA**	**RT**	**AREA**	**RT**	**AREA**	**RT**	**AREA**	**RT**	**AREA**	**RT**	**AREA**	**RT**

(d) Lower Limit = -50% of check standard area; Retention time -0.5 minutes.

Semivolatile Internal Standard Area Summary

Job Number: FA23258
Account: FPMRNYR FPM Remediations
Project: HM-AZ PBR Holloman AFB; Alamogordo, NM

Check Std:	SL3632-CC3629	**Injection Date:**	04/07/15
Lab File ID:	L0681758.D	**Injection Time:**	12:09
Instrument ID:	GCMSL	**Method:**	SW846 8270D

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT	IS 6 AREA	RT
Initial Cal [a]	217958	5.14	795807	6.33	462211	8.67	799313	11.14	644669	16.09	569020	18.60
Check Std [b]	282870	5.13	938058	6.30	553103	8.64	980482	11.12	745053	16.06	679161	18.58
Upper Limit [c]	565740	5.63	1876116	6.80	1106206	9.14	1960964	11.62	1490106	16.56	1358322	19.08
Lower Limit [d]	141435	4.63	469029	5.80	276552	8.14	490241	10.62	372527	15.56	339581	18.08

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT	IS 6 AREA	RT
OP55582-BS	430311	5.13	1428593	6.31	805515	8.64	1267436	11.12	941478	16.06	813657	18.58
OP55582-MB	404154	5.13	1331219	6.30	827986	8.64	1277996	11.11	1074370	16.05	895990	18.57
ZZZZZZ	406120	5.13	1238797	6.30	679633	8.64	946138	11.11	588294	16.05	473974	18.57
FA23258-7	427209	5.13	1410620	6.30	816267	8.64	1147645	11.12	710408	16.06	544361	18.58
FA23258-8	410189	5.13	1393422	6.30	830034	8.64	1158869	11.12	784062	16.06	569130	18.58
FA23258-10	411069	5.13	1367740	6.30	822074	8.64	1154258	11.12	782083	16.06	590812	18.58
FA23258-12	436435	5.13	1460683	6.30	868570	8.64	1234860	11.12	847808	16.06	653811	18.58
FA23258-15	397199	5.13	1344376	6.30	789641	8.64	1129842	11.12	829570	16.06	631088	18.57
FA23258-17	428416	5.13	1412752	6.31	849815	8.64	1217019	11.12	898263	16.05	708980	18.58
FA23258-19	401830	5.13	1358123	6.31	813965	8.64	1157111	11.12	833809	16.05	660041	18.58
FA23258-21	394155	5.13	1319425	6.30	785911	8.64	1130195	11.12	850238	16.06	670979	18.58
FA23258-22	388685	5.13	1309322	6.31	776123	8.64	1133297	11.12	806475	16.06	649874	18.58
FA23258-23	398841	5.13	1345809	6.30	809249	8.64	1149942	11.12	824441	16.06	640095	18.58
FA23258-25	502495	5.13	1588100	6.30	966773	8.64	1365608	11.12	995788	16.06	783949	18.58
FA23258-27	374123	5.12	1266209	6.31	768608	8.64	1129481	11.12	867701	16.05	689361	18.58
FA23258-29	424991	5.13	1396486	6.30	851941	8.64	1213559	11.12	928935	16.06	747024	18.58
FA23258-31	422388	5.13	1391162	6.30	821168	8.64	1198481	11.12	934181	16.06	740679	18.58
ZZZZZZ	280761	5.13	1021605	6.31	678424	8.64	1120391	11.12	933274	16.06	804744	18.58
ZZZZZZ	295057	5.13	1038505	6.31	684638	8.64	1110527	11.12	946737	16.06	783306	18.58
SL3632-ECC3629	304825	5.13	1030326	6.31	626933	8.64	1108587	11.12	810716	16.07	728957	18.58

IS 1 = 1,4-Dichlorobenzene-d4
IS 2 = Naphthalene-d8
IS 3 = Acenaphthene-D10
IS 4 = Phenanthrene-d10
IS 5 = Chrysene-d12
IS 6 = Perylene-d12

(a) Initial Cal is: SL3629-ICC3629 L0681700.D 04/02/15 12:36
(b) Check Std Limit = -50 to + 100% of initial cal area.
(c) Upper Limit = + 100% of check standard area; Retention time + 0.5 minutes.
(d) Lower Limit = -50% of check standard area; Retention time -0.5 minutes.

Semivolatile Internal Standard Area Summary

Job Number: FA23258
Account: FPMRNYR FPM Remediations
Project: HM-AZ PBR Holloman AFB; Alamogordo, NM

Check Std:	ST811-CC809	**Injection Date:**	04/07/15
Lab File ID:	T017724.D	**Injection Time:**	10:26
Instrument ID:	GCMST	**Method:**	SW846 8270D BY SIM

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT
Initial Cal [a]	354871	6.37	183614	7.91	297615	9.21	187477	11.74	138051	13.94
Check Std [b]	280510	6.37	141501	7.90	229658	9.21	181883	11.74	124709	13.93
Upper Limit [c]	561020	6.87	283002	8.40	459316	9.71	363766	12.24	249418	14.43
Lower Limit [d]	140255	5.87	70751	7.40	114829	8.71	90942	11.24	62355	13.43

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT
OP55540-BS	285845	6.37	147706	7.90	236180	9.21	184963	11.74	136914	13.94
OP55540-MB	289481	6.37	153151	7.90	239476	9.21	185366	11.73	134123	13.93
ZZZZZZ	268447	6.37	140799	7.90	230741	9.21	151023	11.74	118976	13.93
ZZZZZZ	280705	6.37	142783	7.91	230066	9.21	136188	11.74	100880	13.94
ZZZZZZ	274786	6.37	141164	7.91	230248	9.21	130802	11.74	98266	13.94
ZZZZZZ	276883	6.37	138640	7.90	237829	9.21	132449	11.74	98967	13.93
OP55505-MS	307333	6.37	147552	7.90	246294	9.21	175186	11.74	103312	13.93
OP55505-MSD	305684	6.37	146863	7.90	242495	9.21	138277	11.74	100699	13.93
ZZZZZZ	276689	6.37	140623	7.90	227487	9.21	165783	11.74	119056	13.93
OP55593-BS [e]	279643	6.37	143677	7.90	232871	9.21	173533	11.74	99790	13.93
OP55593-MB	269790	6.37	141986	7.90	228273	9.21	171239	11.74	100165	13.93
FA23258-14 [f]	274061	6.37	137952	7.90	223892	9.21	154839	11.74	120868	13.93
FA23271-13	267602	6.37	140056	7.90	219946	9.21	154147	11.74	97880	13.93

IS 1 = Naphthalene-d8
IS 2 = Acenaphthene-D10
IS 3 = Phenanthrene-d10
IS 4 = Chrysene-d12
IS 5 = Perylene-d12

(a) Initial Cal is: ST809-ICC809 T017701.D 04/01/15 15:06
(b) Check Std Limit = -50 to + 100% of initial cal area.
(c) Upper Limit = + 100% of check standard area; Retention time + 0.5 minutes.
(d) Lower Limit = -50% of check standard area; Retention time -0.5 minutes.
(e) Target analytes not spiked, see associated MS/MSD for recovery information.
(f) Associated BS not spiked, recoveries with limits in MS/MSD. Re-extracted for confirmation.

Semivolatile Internal Standard Area Summary

Job Number: FA23258
Account: FPMRNYR FPM Remediations
Project: HM-AZ PBR Holloman AFB; Alamogordo, NM

Check Std:	ST811-CC809	**Injection Date:**	04/07/15
Lab File ID:	T017745.D	**Injection Time:**	21:02
Instrument ID:	GCMST	**Method:**	SW846 8270D BY SIM

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT
Initial Cal [a]	354871	6.37	183614	7.91	297615	9.21	187477	11.74	138051	13.94
Check Std [b]	297755	6.37	150604	7.90	239875	9.21	193542	11.74	140692	13.93
Upper Limit [c]	595510	6.87	301208	8.40	479750	9.71	387084	12.24	281384	14.43
Lower Limit [d]	148878	5.87	75302	7.40	119938	8.71	96771	11.24	70346	13.43

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT
OP55593-MS	276052	6.37	142309	7.90	239208	9.21	167136	11.74	130480	13.93
OP55593-MSD	260662	6.37	137059	7.90	220615	9.21	162679	11.74	114132	13.93
OP55576-BS	277015	6.37	143317	7.90	228191	9.21	165381	11.74	119213	13.93
OP55576-MB	266161	6.37	139400	7.90	216401	9.21	155775	11.73	118155	13.93
ZZZZZZ	265102	6.37	138872	7.90	227093	9.21	159254	11.74	110516	13.93
ZZZZZZ	244874	6.37	130241	7.90	212336	9.21	146393	11.74	108865	13.93
ZZZZZZ	247035	6.37	131560	7.90	211422	9.21	145163	11.74	110105	13.93
FA23262-2	258647	6.37	130996	7.90	213494	9.21	153121	11.74	110545	13.94
OP55576-MS	259813	6.37	129823	7.90	209779	9.21	152804	11.74	120721	13.93
OP55576-MSD	260104	6.37	130601	7.90	211935	9.21	156358	11.74	112525	13.93
ZZZZZZ	254046	6.37	131139	7.90	207942	9.21	142460	11.73	108699	13.93
ZZZZZZ	243668	6.37	127973	7.90	202176	9.21	147667	11.74	112498	13.93
ZZZZZZ	252062	6.37	129384	7.90	198589	9.21	146160	11.74	106640	13.93
ZZZZZZ	251163	6.37	127556	7.90	198945	9.21	147035	11.73	107777	13.93
ZZZZZZ	260369	6.37	134773	7.90	219265	9.21	151030	11.74	105856	13.93
ZZZZZZ	293830	6.38	144261	7.90	241509	9.21	168665	11.74	133162	13.94
ZZZZZZ	268840	6.37	137134	7.90	229714	9.21	168186	11.74	100000	13.94

IS 1 = Naphthalene-d8
IS 2 = Acenaphthene-D10
IS 3 = Phenanthrene-d10
IS 4 = Chrysene-d12
IS 5 = Perylene-d12

(a) Initial Cal is: ST809-ICC809 T017701.D 04/01/15 15:06
(b) Check Std Limit = -50 to + 100% of initial cal area.
(c) Upper Limit = + 100% of check standard area; Retention time + 0.5 minutes.
(d) Lower Limit = -50% of check standard area; Retention time -0.5 minutes.

Semivolatile Internal Standard Area Summary

Job Number: FA23258
Account: FPMRNYR FPM Remediations
Project: HM-AZ PBR Holloman AFB; Alamogordo, NM

Check Std:	ST813-ICC813	**Injection Date:**	04/10/15
Lab File ID:	T017845.D	**Injection Time:**	15:24
Instrument ID:	GCMST	**Method:**	SW846 8270D BY SIM

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT
Initial Cal [a]	258703	6.30	132523	7.83	222932	9.14	168542	11.63	120620	13.78
Check Std [b]	258703	6.30	132523	7.83	222932	9.14	168542	11.63	120620	13.78
Upper Limit [c]	517406	6.80	265046	8.33	445864	9.64	337084	12.13	241240	14.28
Lower Limit [d]	129352	5.80	66262	7.33	111466	8.64	84271	11.13	60310	13.28

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT
OP55593-BS2 [e]	244405	6.30	127619	7.83	214715	9.14	166955	11.63	128442	13.78
OP55593-MB2 [f]	242613	6.30	124449	7.83	209150	9.13	155105	11.63	118997	13.78
FA23258-14 [g]	245555	6.30	126742	7.83	206940	9.13	143495	11.63	117549	13.78
ZZZZZZ	243584	6.30	125946	7.83	206975	9.13	150790	11.63	110901	13.78
ZZZZZZ	239007	6.30	124066	7.83	203983	9.13	140564	11.63	109780	13.78
ZZZZZZ	242818	6.30	125447	7.83	208137	9.13	152124	11.63	112776	13.78
ZZZZZZ	241803	6.30	130652	7.83	212816	9.13	153990	11.63	115258	13.78
ZZZZZZ	238785	6.30	123515	7.83	198773	9.13	145702	11.63	109229	13.78
ZZZZZZ	237696	6.30	124176	7.83	203493	9.13	153058	11.63	117991	13.78
ZZZZZZ	241285	6.30	124672	7.83	207221	9.13	153502	11.63	116495	13.78
ZZZZZZ	238557	6.30	124060	7.83	200809	9.13	146119	11.63	106692	13.78

IS 1 = Naphthalene-d8
IS 2 = Acenaphthene-D10
IS 3 = Phenanthrene-d10
IS 4 = Chrysene-d12
IS 5 = Perylene-d12

(a) Initial Cal is: ST813-ICC813 T017845.D 04/10/15 15:24
(b) Check Std Limit = -50 to + 100% of initial cal area.
(c) Upper Limit = + 100% of check standard area; Retention time + 0.5 minutes.
(d) Lower Limit = -50% of check standard area; Retention time -0.5 minutes.
(e) From re-extract batch, included to show recoveries.
(f) From re-extract batch.
(g) Confirmation run.

Semivolatile Internal Standard Area Summary

Job Number: FA23258
Account: FPMRNYR FPM Remediations
Project: HM-AZ PBR Holloman AFB; Alamogordo, NM

Check Std:	SX1832-CC1826	**Injection Date:**	04/07/15
Lab File ID:	X039417.D	**Injection Time:**	12:55
Instrument ID:	GCMSX	**Method:**	SW846 8270D

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT	IS 6 AREA	RT
Initial Cal [a]	294565	5.04	1158100	6.14	623440	7.69	993506	8.98	883242	11.63	589324	13.96
Check Std [b]	336704	4.93	1264616	6.02	709094	7.57	1124589	8.85	929997	11.45	597974	13.71
Upper Limit [c]	673408	5.43	2529232	6.52	1418188	8.07	2249178	9.35	1859994	11.95	1195948	14.21
Lower Limit [d]	168352	4.43	632308	5.52	354547	7.07	562295	8.35	464999	10.95	298987	13.21

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT	IS 6 AREA	RT
OP55584-BS	226986	4.92	832059	6.02	455011	7.56	700016	8.85	549806	11.44	377034	13.69
OP55584-MB	409602	4.92	1478665	6.02	832349	7.56	1261245	8.85	972026	11.43	622681	13.69
OP55584-MS	221948	4.92	834781	6.02	440772	7.56	661982	8.85	535039	11.44	377783	13.69
OP55584-MSD	233398	4.92	860751	6.02	463374	7.56	710625	8.85	552134	11.43	390962	13.69
FA23258-37	239469	4.92	892263	6.02	473267	7.56	699639	8.84	510606	11.43	356172	13.68
FA23258-39	246463	4.92	936969	6.02	489682	7.56	748012	8.84	526646	11.43	370385	13.69
FA23258-41	227305	4.92	842465	6.02	455989	7.56	695289	8.84	500230	11.43	329749	13.68
ZZZZZZ	223388	4.93	817922	6.03	490163	7.58	768015	8.87	560181	11.44	367657	13.69
ZZZZZZ	260883	4.93	949660	6.03	584995	7.58	936980	8.86	690657	11.44	450843	13.69
ZZZZZZ	218774	4.92	795421	6.02	472900	7.57	750684	8.85	554829	11.43	367847	13.69
ZZZZZZ	242178	4.92	864790	6.02	504902	7.57	796553	8.85	612548	11.43	398818	13.69
ZZZZZZ	326870	4.93	1207511	6.02	662175	7.56	1016269	8.84	741018	11.43	481670	13.69
ZZZZZZ	498745	4.93	1747786	6.02	1032898	7.56	1533240	8.85	1073651	11.43	650170	13.69
OP55570-LS	243017	4.92	916014	6.02	500248	7.56	773485	8.85	647297	11.44	447247	13.69
SX1832-ECC1826	214468	4.92	824556	6.02	441372	7.57	715992	8.85	565049	11.44	410594	13.70

IS 1 = 1,4-Dichlorobenzene-d4
IS 2 = Naphthalene-d8
IS 3 = Acenaphthene-D10
IS 4 = Phenanthrene-d10
IS 5 = Chrysene-d12
IS 6 = Perylene-d12

(a) Initial Cal is: SX1826-ICC1826 X039252.D 03/30/15 16:19
(b) Check Std Limit = -50 to + 100% of initial cal area.
(c) Upper Limit = + 100% of check standard area; Retention time + 0.5 minutes.
(d) Lower Limit = -50% of check standard area; Retention time -0.5 minutes.

Semivolatile Internal Standard Area Summary

Job Number: FA23258
Account: FPMRNYR FPM Remediations
Project: HM-AZ PBR Holloman AFB; Alamogordo, NM

Check Std:	SX1833-CC1826	**Injection Date:**	04/08/15
Lab File ID:	X039441.D	**Injection Time:**	14:17
Instrument ID:	GCMSX	**Method:**	SW846 8270D

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT	IS 6 AREA	RT
Initial Cal [a]	294565	5.04	1158100	6.14	623440	7.69	993506	8.98	883242	11.63	589324	13.96
Check Std [b]	277008	4.91	1033861	6.00	577856	7.55	911255	8.83	740063	11.42	494884	13.66
Upper Limit [c]	554016	5.41	2067722	6.50	1155712	8.05	1822510	9.33	1480126	11.92	989768	14.16
Lower Limit [d]	138504	4.41	516931	5.50	288928	7.05	455628	8.33	370032	10.92	247442	13.16

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT	IS 6 AREA	RT
OP55578-BS	238891	4.91	887471	6.00	484430	7.55	760631	8.83	622188	11.46	408663	13.76
OP55578-MB	239609	4.90	878640	6.00	478787	7.55	743375	8.84	515154	11.43	309124	13.71
ZZZZZZ	227022	4.90	853308	6.00	459416	7.55	708129	8.83	480087	11.43	301884	13.71
OP55599-BS	223963	4.90	830980	6.00	445666	7.55	685858	8.84	529684	11.44	367927	13.71
OP55599-MB	215513	4.90	834286	6.00	438551	7.55	651201	8.84	414314	11.47	255598	13.80
FA23318-1	218957	4.90	827006	6.00	442839	7.55	631572	8.84	419209	11.47	268377	13.79
OP55599-MS	227979	4.90	826445	6.00	448110	7.55	684076	8.84	540432	11.47	361518	13.79
OP55599-MSD	221903	4.90	830295	6.00	442792	7.55	674092	8.84	514846	11.47	351678	13.80
FA23258-35	235314	4.90	883548	6.00	485185	7.55	723467	8.84	484934	11.46	306142	13.77
ZZZZZZ	229459	4.90	823288	6.00	495864	7.56	791050	8.86	595667	11.47	321233	13.77
ZZZZZZ	241606	4.90	888783	6.00	518337	7.55	837562	8.85	624815	11.46	351800	13.76
ZZZZZZ	235561	4.90	850230	6.00	483460	7.55	763703	8.84	577133	11.45	348938	13.76
ZZZZZZ	239312	4.90	885858	6.00	467879	7.55	693528	8.84	474800	11.45	308977	13.75
ZZZZZZ	244293	4.91	894900	6.00	479470	7.55	693358	8.84	463762	11.46	297584	13.77
ZZZZZZ	230118	4.90	844733	6.00	444751	7.55	662770	8.84	428700	11.46	282787	13.77
ZZZZZZ	233507	4.90	876853	6.00	471940	7.55	697300	8.84	468822	11.46	309119	13.76
ZZZZZZ	240594	4.90	908169	6.00	480963	7.55	710066	8.84	475908	11.45	282728	13.74
ZZZZZZ	233546	4.90	860502	6.00	471195	7.55	694232	8.84	459696	11.45	281428	13.75
ZZZZZZ	231837	4.90	841685	6.00	466145	7.55	671554	8.84	450401	11.45	281607	13.75
ZZZZZZ	228418	4.90	845895	6.00	445016	7.55	663436	8.84	430507	11.45	272350	13.75
ZZZZZZ	234174	4.90	853051	6.00	463112	7.55	669381	8.84	464931	11.45	300211	13.75
ZZZZZZ	246804	4.90	906429	6.00	475888	7.55	711129	8.84	487916	11.45	322680	13.75
ZZZZZZ	252807	4.90	923875	6.00	490226	7.55	710364	8.83	488075	11.44	306480	13.73
ZZZZZZ	239413	4.90	863750	6.00	458659	7.55	679996	8.84	449219	11.44	281668	13.73
ZZZZZZ	237233	4.90	876787	6.00	464729	7.55	673832	8.84	440541	11.45	277647	13.74
ZZZZZZ	243220	4.90	877320	6.00	473494	7.55	711644	8.84	456492	11.44	285020	13.74
ZZZZZZ	248137	4.90	893351	6.00	481530	7.54	703143	8.83	462576	11.44	300612	13.74
SX1833-ECC1826	229364	4.90	878219	6.00	478348	7.55	749299	8.84	603330	11.46	399995	13.77

IS 1 = 1,4-Dichlorobenzene-d4
IS 2 = Naphthalene-d8
IS 3 = Acenaphthene-D10
IS 4 = Phenanthrene-d10

Semivolatile Internal Standard Area Summary

Job Number: FA23258
Account: FPMRNYR FPM Remediations
Project: HM-AZ PBR Holloman AFB; Alamogordo, NM

Check Std:	SX1833-CC1826	**Injection Date:**	04/08/15
Lab File ID:	X039441.D	**Injection Time:**	14:17
Instrument ID:	GCMSX	**Method:**	SW846 8270D

Lab	IS 1		IS 2		IS 3		IS 4		IS 5		IS 6	
Sample ID	**AREA**	**RT**	**AREA**	**RT**	**AREA**	**RT**	**AREA**	**RT**	**AREA**	**RT**	**AREA**	**RT**

IS 5 = Chrysene-d12
IS 6 = Perylene-d12

(a) Initial Cal is: SX1826-ICC1826 X039252.D 03/30/15 16:19
(b) Check Std Limit = -50 to + 100% of initial cal area.
(c) Upper Limit = + 100% of check standard area; Retention time + 0.5 minutes.
(d) Lower Limit = -50% of check standard area; Retention time -0.5 minutes.

Semivolatile Surrogate Recovery Summary

Job Number: FA23258
Account: FPMRNYR FPM Remediations
Project: HM-AZ PBR Holloman AFB; Alamogordo, NM

Method: SW846 8270D **Matrix:** SO

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1	S2	S3
FA23258-1	L0681750.D	70	74	82
FA23258-3	L0681751.D	66	71	81
FA23258-5	L0681752.D	75	76	86
FA23258-7	L0681762.D	66	67	83
FA23258-8	L0681763.D	71	71	87
FA23258-10	L0681764.D	72	68	91
FA23258-12	L0681765.D	75	72	93
FA23258-15	L0681766.D	76	73	89
FA23258-17	L0681767.D	81	77	96
FA23258-19	L0681768.D	80	79	96
FA23258-21	L0681769.D	73	70	86
FA23258-22	L0681770.D	84	80	98
FA23258-23	L0681771.D	84	79	100
FA23258-25	L0681772.D	75	71	86
FA23258-27	L0681773.D	83	80	99
FA23258-29	L0681774.D	85	80	102
FA23258-31	L0681775.D	79	78	94
FA23258-33	L0681743.D	69	71	85
FA23258-35	X039451.D	70	68	91
FA23258-37	X039423.D	76	80	102
FA23258-39	X039424.D	60	63	87
FA23258-41	X039425.D	77	78	108
OP55582-BS	L0681731.D	67	69	92
OP55582-BS	L0681759.D	70	69	93
OP55582-MB	L0681732.D	77	78	91
OP55582-MB	L0681760.D	80	75	92
OP55582-MS	L0681744.D	64	69	90
OP55582-MSD	L0681745.D	69	75	92
OP55584-BS	X039418.D	74	76	92
OP55584-MB	X039419.D	47	47	58
OP55584-MS	X039421.D	71	74	91
OP55584-MSD	X039422.D	72	73	91

Surrogate Compounds	Recovery Limits
S1 = Nitrobenzene-d5	40-105%
S2 = 2-Fluorobiphenyl	43-107%
S3 = Terphenyl-d14	45-119%

Semivolatile Surrogate Recovery Summary

Job Number: FA23258
Account: FPMRNYR FPM Remediations
Project: HM-AZ PBR Holloman AFB; Alamogordo, NM

Method: SW846 8270D BY SIM **Matrix:** AQ

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1	S2	S3
FA23258-14	T017742.D	89	93	112
FA23258-14	T017852.D	64	64	84
OP55593-BS	T017740.D	83	84	88
OP55593-MB	T017741.D	83	80	89
OP55593-MS	T017746.D	88	88	99
OP55593-MSD	T017747.D	59	61	92

Surrogate Compounds	Recovery Limits
S1 = Nitrobenzene-d5	41-129%
S2 = 2-Fluorobiphenyl	41-118%
S3 = Terphenyl-d14	45-145%

Initial Calibration Summary

Job Number: FA23258
Account: FPMRNYR FPM Remediations
Project: HM-AZ PBR Holloman AFB; Alamogordo, NM

Sample: SL3629-ICC3629
Lab FileID: L0681700.D

Response Factor Report MSBNA02

Method : C:\msdchem\1\METHODS\8270da0402.m (RTE Integrator)
Title : SW846 8270D OR EPA 625
Last Update : Thu Apr 02 15:27:09 2015
Response via : Initial Calibration

Calibration Files
5 =L0681697.D 10 =L0681698.D 25 =L0681699.D 50 =L0681700.D
60 =L0681701.D 75 =L0681702.D 100 =L0681703.D

Compound	5	10	25	50	60	75	100	Avg	%RSD
1) I 1,4-Dichlorobenzene-d	----------ISTD----------								
2) 1,4-Dioxane	1.079	0.934	0.904	0.894	0.930	0.978	0.971	0.956	6.54
3) N-nitrosodimethyl	1.239	1.197	1.142	1.044	1.008	0.998	0.959	1.084	10.01
4) Pyridine	2.631	2.459	2.280	2.174	2.118	2.176	2.084	2.274	8.83
5)P Benzaldehyde	1.617	1.653	1.498	1.490	1.288	1.225	1.040	1.402	16.00
---- Quadratic regr., Force(0,0) ---- Coefficient = 0.9966									
Response Ratio = 0.00000 + 1.76826 *A + -0.29093 *A^2									
6) Aniline	2.650	2.408	2.208	2.254	2.112	2.140	2.092	2.266	8.83
7)S 2-Fluorophenol	1.739	1.753	1.607	1.529	1.473	1.474	1.434	1.573	8.29
8)P bis(2-Chloroethyl	1.676	1.602	1.535	1.575	1.464	1.483	1.455	1.541	5.29
9)S Phenol-d5	1.949	1.849	1.714	1.663	1.553	1.548	1.521	1.685	9.72
10)P Phenol	2.459	2.317	2.098	2.088	1.952	1.960	1.929	2.115	9.56
11)P 2-Chlorophenol	1.582	1.458	1.402	1.440	1.380	1.394	1.387	1.435	4.96
12) 1,3-Dichlorobenze	1.735	1.669	1.577	1.598	1.528	1.569	1.543	1.603	4.62
13) 1,4-Dichlorobenze	1.545	1.507	1.484	1.527	1.474	1.479	1.486	1.500	1.79
14) 1,2-Dichlorobenze	1.528	1.537	1.450	1.468	1.422	1.417	1.423	1.464	3.43
15) Benzyl alcohol	1.019	0.985	1.061	1.157	1.068	1.087	1.075	1.064	5.07
16)P bis(2-chloroisopr	3.256	3.101	2.800	2.734	2.551	2.482	2.401	2.761	11.60
17)P 2-Methylphenol	1.426	1.357	1.393	1.457	1.352	1.372	1.344	1.386	3.05
18)P Acetophenone	2.090	2.031	1.964	2.035	1.891	1.852	1.805	1.953	5.43
19)P Hexachloroethane	0.618	0.603	0.595	0.626	0.598	0.602	0.595	0.605	2.00
20)P N-Nitroso-di-n-pr	0.978	0.985	0.989	1.071	0.961	0.953	0.945	0.983	4.29
21)P 3&4-Methylphenol	1.483	1.468	1.478	1.584	1.462	1.496	1.451	1.489	2.99
22) I Naphthalene-d8	----------ISTD----------								
23)S Nitrobenzene-d5	0.458	0.446	0.445	0.446	0.443	0.433	0.422	0.442	2.58
24)P Nitrobenzene	0.496	0.453	0.445	0.433	0.434	0.418	0.405	0.440	6.62
25)P Isophorone	0.897	0.846	0.854	0.826	0.812	0.766	0.752	0.822	6.16
26)P 2-Nitrophenol	0.221	0.199	0.221	0.233	0.233	0.223	0.221	0.221	5.14
27)P 2,4-Dimethylpheno	0.405	0.390	0.399	0.385	0.383	0.366	0.365	0.385	3.92
28)P bis(2-Chloroethox	0.562	0.531	0.505	0.506	0.505	0.477	0.464	0.507	6.37
29) Benzoic Acid	0.298	0.280	0.319	0.349	0.340	0.345	0.346	0.325	8.43
30)P 2,4-Dichloropheno	0.333	0.317	0.330	0.331	0.330	0.317	0.312	0.324	2.63
31) 1,2,4-Trichlorobe	0.385	0.376	0.371	0.371	0.378	0.357	0.350	0.370	3.32
32) alpha-Terpineol								0.000	-1.00
33)P Naphthalene	1.098	1.078	1.015	0.978	0.979	0.938	0.912	1.000	6.89
34)P 4-Chloroaniline	0.505	0.494	0.496	0.519	0.504	0.492	0.478	0.498	2.54
35) 2,6-Dichloropheno	0.318	0.305	0.308	0.317	0.310	0.304	0.289	0.307	3.22
36)P Hexachlorobutadie	0.191	0.188	0.185	0.190	0.195	0.187	0.187	0.189	1.73
37)P Caprolactam	0.141	0.130	0.138	0.151	0.147	0.145	0.142	0.142	4.74
38)P 4-Chloro-3-methyl	0.352	0.346	0.368	0.375	0.358	0.356	0.347	0.357	3.04
39)P 2-Methylnaphthale	0.838	0.837	0.798	0.770	0.776	0.736	0.715	0.781	6.01
40) 1-Methylnaphthale	0.749	0.696	0.691	0.681	0.668	0.645	0.623	0.679	5.93
41)P 1,2,4,5-Tetrachlo	0.352	0.348	0.338	0.350	0.344	0.332	0.322	0.341	3.16

Initial Calibration Summary

Job Number: FA23258 **Sample:** SL3629-ICC3629
Account: FPMRNYR FPM Remediations **Lab FileID:** L0681700.D
Project: HM-AZ PBR Holloman AFB; Alamogordo, NM

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42) I   Acenaphthene-d10      ----------------ISTD---------------------
43)P Hexachlorocyclope 0.393 0.369 0.387 0.399 0.406 0.389 0.393 0.391   2.97
44)P 2,4,6-Trichloroph 0.411 0.383 0.417 0.434 0.436 0.417 0.420 0.417   4.26
45)P 2,4,5-Trichloroph 0.434 0.426 0.423 0.450 0.436 0.433 0.429 0.433   2.00
46)S 2-Fluorobiphenyl  1.480 1.370 1.309 1.286 1.272 1.226 1.218 1.309   6.99
47)P 1,1'-Biphenyl     1.750 1.637 1.594 1.487 1.531 1.452 1.408 1.551   7.62
48)P 2-Chloronaphthale 1.251 1.177 1.132 1.125 1.120 1.092 1.075 1.139   5.18
49)P 2-Nitroaniline    0.419 0.390 0.437 0.461 0.455 0.444 0.443 0.436   5.51
50)  p-Dinitrobenzene  0.237 0.255 0.288 0.310 0.306 0.300 0.312 0.287  10.31
51)P Acenaphthylene    2.112 2.014 1.896 1.784 1.761 1.692 1.689 1.850   8.85
52)P Dimethylphthalate 1.389 1.367 1.362 1.302 1.286 1.240 1.217 1.309   5.06
53)  m-Dinitrobenzene  0.212 0.208 0.244 0.249 0.247 0.254 0.254 0.238   8.23
54)P 2,6-Dinitrotoluen 0.291 0.290 0.325 0.327 0.320 0.315 0.317 0.312   4.96
55)  o-Dinitrobenzene  0.258 0.242 0.239 0.243 0.237 0.236 0.241 0.242   3.03
56)P Acenaphthene      1.152 1.134 1.109 1.135 1.133 1.118 1.117 1.128   1.29
57)P 3-Nitroaniline    0.390 0.387 0.409 0.425 0.419 0.411 0.424 0.409   3.83
58)P 2,4-Dinitrophenol 0.104 0.122 0.185 0.215 0.211 0.219 0.222 0.183  27.06
            ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9984
              Response Ratio = 0.00000 + 0.18962 *A + 0.01394 *A^2

59)P Dibenzofuran      1.751 1.723 1.633 1.564 1.559 1.501 1.480 1.602   6.55
60)P 2,4-Dinitrotoluen 0.349 0.374 0.404 0.428 0.420 0.424 0.412 0.401   7.28
61)P 4-Nitrophenol     0.140 0.148 0.166 0.175 0.178 0.175 0.175 0.165   9.19
62)  2,3,5,6-Tetrachlo 0.367 0.350 0.381 0.393 0.385 0.379 0.380 0.376   3.69
63)P 2,3,4,6-Tetrachlo 0.350 0.372 0.363 0.372 0.372 0.363 0.362 0.365   2.18
64)P Fluorene          1.419 1.395 1.327 1.304 1.296 1.249 1.232 1.317   5.30
65)P 4-Chlorophenyl-ph 0.646 0.599 0.559 0.575 0.577 0.551 0.539 0.578   6.18
66)P Diethylphthalate  1.343 1.347 1.307 1.338 1.326 1.295 1.267 1.317   2.24
67)P 4-Nitroaniline    0.333 0.366 0.372 0.404 0.388 0.401 0.404 0.381   6.87

68) I   Phenanthrene-d10      ----------------ISTD---------------------
69)P 4,6-Dinitro-2-met 0.105 0.118 0.143 0.153 0.150 0.150 0.146 0.138  13.60
70)P n-Nitrosodiphenyl 0.552 0.541 0.539 0.513 0.496 0.474 0.475 0.513   6.29
71)  Diphenylamine     0.662 0.649 0.647 0.616 0.596 0.569 0.569 0.615   6.29
72)  1,2-Diphenylhydra 0.971 0.906 0.873 0.786 0.760 0.725 0.712 0.819  12.02
73)S 2,4,6-Tribromophe 0.152 0.145 0.159 0.149 0.144 0.140 0.141 0.147   4.54
74)P 4-Bromophenyl-phe 0.255 0.221 0.246 0.236 0.227 0.214 0.217 0.231   6.64
75)P Hexachlorobenzene 0.296 0.281 0.291 0.270 0.262 0.259 0.256 0.274   5.82
76)  Simazine          0.113 0.108 0.115 0.112 0.110 0.109 0.108 0.111   2.39
77)P Atrazine          0.219 0.212 0.216 0.203 0.203 0.190 0.191 0.205   5.58
78)P Pentachlorophenol 0.145 0.157 0.182 0.181 0.179 0.178 0.177 0.171   8.36
79)P Phenanthrene      1.172 1.092 1.095 1.022 0.995 0.982 0.984 1.049   6.89
80)P Anthracene        1.155 1.090 1.109 1.029 0.974 0.964 0.960 1.040   7.56
81)P Carbazole         1.202 1.112 1.122 1.020 0.986 0.971 0.959 1.053   8.79
82)P Di-n-butylphthala 1.384 1.368 1.410 1.239 1.230 1.178 1.167 1.282   7.97
83)P Fluoranthene      1.248 1.201 1.256 1.163 1.114 1.087 1.057 1.161   6.74

84) I   Chrysene-d12          ----------------ISTD---------------------
85)  Benzidine         0.324 0.629 0.769 0.854 0.733 0.719 0.645 0.668  25.36
            ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9938
              Response Ratio = 0.00000 + 0.90668 *A + -0.10245 *A^2

86)P Pyrene            1.505 1.401 1.338 1.349 1.314 1.210 1.213 1.333   7.77
87)S Terphenyl-d14     0.962 0.906 0.968 0.978 0.928 0.876 0.871 0.927   4.75
88)P Butylbenzylphthal 0.620 0.611 0.681 0.721 0.685 0.656 0.641 0.659   5.94
89)P 3,3'-Dichlorobenz 0.366 0.360 0.415 0.464 0.442 0.443 0.424 0.416   9.47
90)P Benzo[a]anthracen 1.226 1.155 1.240 1.258 1.218 1.166 1.133 1.199   3.98
91)P Chrysene          0.988 0.953 0.962 1.011 0.956 0.960 0.942 0.967   2.46
92)P bis(2-Ethylhexyl) 0.729 0.723 0.827 0.827 0.823 0.772 0.743 0.778   6.15
```

Initial Calibration Summary

Job Number: FA23258 **Sample:** SL3629-ICC3629
Account: FPMRNYR FPM Remediations **Lab FileID:** L0681700.D
Project: HM-AZ PBR Holloman AFB; Alamogordo, NM

```
 93) I   Perylene-d12          ----------------ISTD---------------------
 94)P Di-n-octylphthala 1.365 1.428 1.626 1.628 1.615 1.523 1.431 1.517   7.24
 95)P Benzo[b]fluoranth 1.226 1.227 1.311 1.326 1.277 1.249 1.217 1.262   3.46
 96)P Benzo[k]fluoranth 1.338 1.247 1.196 1.149 1.092 1.133 1.073 1.176   7.91
 97)P Benzo[a]pyrene    1.194 1.190 1.251 1.231 1.225 1.229 1.182 1.215   2.13
 98)P Indeno[1,2,3-cd]p 0.820 0.835 0.960 1.024 1.010 1.033 1.004 0.955   9.44
 99)P Dibenz[a,h]anthra 0.892 0.842 0.910 0.902 0.897 0.928 0.897 0.896   2.94
100)P Benzo[g,h,i]peryl 1.003 0.952 1.023 1.035 1.002 1.013 0.992 1.003   2.66
 ----------------------------------------------------------------------------
 (#) = Out of Range

          8270da0402.m        Mon Apr 06 13:54:41 2015
```

Initial Calibration Verification

Job Number: FA23258
Account: FPMRNYR FPM Remediations
Project: HM-AZ PBR Holloman AFB; Alamogordo, NM

Sample: SL3629-ICV3629
Lab FileID: L0681704.D

Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\DATA\sl3629\L0681704.D Vial: 9
Acq On : 2 Apr 2015 2:34 pm Operator: nareshj
Sample : icv3629-50 Inst : MSBNA02
Misc : op55410,sl3629,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: lscint.p

Method : C:\msdchem\1\METHODS\8270da0402.m (RTE Integrator)
Title : SW846 8270D OR EPA 625
Last Update : Thu Apr 02 15:27:09 2015
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Drift	Area%	Dev(min)	R.T.
1	I	1,4-Dichlorobenzene-d4	40.000	40.000	0.0	100	0.00	5.14
2		1,4-Dioxane	50.000	51.986	-4.0	111	0.02	2.76
3		N-nitrosodimethylamine	50.000	52.000	-4.0	108	0.01	3.07
4		Pyridine		----------NA----------				
		----------	Amount	Calc.	%Drift	----------		
5	P	Benzaldehyde		----------NA----------				
		----------	Amount	Calc.	%Drift	----------		
6		Aniline		----------NA----------				
7	S	2-Fluorophenol		----------NA----------				
8	P	bis(2-Chloroethyl)ether	50.000	49.727	0.5	97	0.00	4.95
9	S	Phenol-d5		----------NA----------				
10	P	Phenol	50.000	44.729	10.5	91	0.00	4.90
11	P	2-Chlorophenol	50.000	47.042	5.9	94	0.00	5.00
12		1,3-Dichlorobenzene	50.000	47.858	4.3	96	0.00	5.12
13		1,4-Dichlorobenzene	50.000	47.410	5.2	93	0.00	5.16
14		1,2-Dichlorobenzene	50.000	50.721	-1.4	101	0.00	5.31
15		Benzyl alcohol		----------NA----------				
16	P	bis(2-chloroisopropyl)eth	50.000	46.364	7.3	94	0.00	5.40
17	P	2-Methylphenol	50.000	44.752	10.5	85	0.00	5.37
18	P	Acetophenone	50.000	42.878	14.2	82	0.00	5.50
19	P	Hexachloroethane	50.000	46.606	6.8	90	0.00	5.59
20	P	N-Nitroso-di-n-propylamin	50.000	43.287	13.4	79	0.00	5.52
21	P	3&4-Methylphenol	100.000	81.503	18.5	123	0.00	5.49
22	I	Naphthalene-d8	40.000	40.000	0.0	89	0.00	6.33
23	S	Nitrobenzene-d5		----------NA----------				
24	P	Nitrobenzene	50.000	48.075	3.8	87	0.00	5.66
25	P	Isophorone	50.000	47.029	5.9	83	0.00	5.87
26	P	2-Nitrophenol	50.000	48.306	3.4	82	0.00	5.95
27	P	2,4-Dimethylphenol	50.000	42.936	14.1	76	0.00	5.98
28	P	bis(2-Chloroethoxy)methan	50.000	48.083	3.8	85	0.00	6.08
29		Benzoic Acid	100.000	96.600	3.4	125	0.01	6.12
30	P	2,4-Dichlorophenol	50.000	45.308	9.4	79	0.00	6.19
31		1,2,4-Trichlorobenzene	50.000	46.811	6.4	83	0.00	6.28
32		alpha-Terpineol		----------NA----------				
33	P	Naphthalene	50.000	47.576	4.8	86	0.00	6.35
34	P	4-Chloroaniline		----------NA----------				
35		2,6-Dichlorophenol	50.000	48.129	3.7	83	0.00	6.43
36	P	Hexachlorobutadiene	50.000	49.752	0.5	88	0.00	6.55
37	P	Caprolactam	50.000	44.403	11.2	74	-0.02	6.79

Initial Calibration Verification

Job Number: FA23258 **Sample:** SL3629-ICV3629
Account: FPMRNYR FPM Remediations **Lab FileID:** L0681704.D
Project: HM-AZ PBR Holloman AFB; Alamogordo, NM

38	P	4-Chloro-3-methylphenol	50.000	45.805	8.4	77	0.00	6.98
39	P	2-Methylnaphthalene		----------NA----------				
40		1-Methylnaphthalene	50.000	51.753	-3.5	92	0.00	7.30
41	P	1,2,4,5-Tetrachlorobenzen	50.000	46.408	7.2	80	0.00	7.43
42	I	Acenaphthene-d10	40.000	40.000	0.0	88	0.00	8.67
43	P	Hexachlorocyclopentadiene		----------NA----------				
44	P	2,4,6-Trichlorophenol	50.000	47.428	5.1	80	0.00	7.56
45	P	2,4,5-Trichlorophenol	50.000	45.537	8.9	77	0.00	7.62
46	S	2-Fluorobiphenyl		----------NA----------				
47	P	1,1'-Biphenyl	50.000	44.597	10.8	82	0.00	7.80
48	P	2-Chloronaphthalene	50.000	45.525	9.0	81	0.00	7.81
49	P	2-Nitroaniline		----------NA----------				
50		p-Dinitrobenzene		----------NA----------				
51	P	Acenaphthylene	50.000	44.910	10.2	82	0.00	8.43
52	P	Dimethylphthalate	50.000	48.412	3.2	86	0.00	8.33
53		m-Dinitrobenzene		----------NA----------				
54	P	2,6-Dinitrotoluene	50.000	42.281	15.4	71	0.00	8.42
55		o-Dinitrobenzene		----------NA----------				
56	P	Acenaphthene	50.000	47.164	5.7	83	0.00	8.72
57	P	3-Nitroaniline		----------NA----------				
		----------	Amount	Calc.	%Drift		----------	
58	P	2,4-Dinitrophenol	100.000	84.033	16.0	119	0.00	8.79
		----------	Amount	Calc.	%Drift		----------	
59	P	Dibenzofuran		----------NA----------				
60	P	2,4-Dinitrotoluene	50.000	44.839	10.3	74	0.00	9.04
61	P	4-Nitrophenol	100.000	87.073	12.9	119	0.00	8.93
62		2,3,5,6-Tetrachlorophenol		----------NA----------				
63	P	2,3,4,6-Tetrachlorophenol	50.000	46.173	7.7	80	0.00	9.25
64	P	Fluorene	50.000	43.455	13.1	77	0.00	9.53
65	P	4-Chlorophenyl-phenylethe	50.000	43.707	12.6	77	0.00	9.56
66	P	Diethylphthalate	50.000	45.651	8.7	79	0.00	9.49
67	P	4-Nitroaniline		----------NA----------				
68	I	Phenanthrene-d10	40.000	40.000	0.0	80	0.00	11.15
69	P	4,6-Dinitro-2-methylpheno	100.000	112.684	-12.7	134	0.00	9.72
70	P	n-Nitrosodiphenylamine	50.000	44.405	11.2	59	0.00	9.77
71		Diphenylamine	50.000	37.005	26.0#	59	0.00	9.77
72		1,2-Diphenylhydrazine	50.000	48.071	3.9	80	0.00	9.82
73	S	2,4,6-Tribromophenol		----------NA----------				
74	P	4-Bromophenyl-phenylether	50.000	43.789	12.4	68	0.00	10.39
75	P	Hexachlorobenzene	50.000	48.516	3.0	79	0.00	10.62
76		Simazine		----------NA----------				
77	P	Atrazine	50.000	46.604	6.8	75	0.00	10.81
78	P	Pentachlorophenol	100.000	104.067	-4.1	127	0.00	10.95
79	P	Phenanthrene	50.000	47.520	5.0	78	0.00	11.19
80	P	Anthracene	50.000	48.323	3.4	78	0.00	11.26
81	P	Carbazole		----------NA----------				
82	P	Di-n-butylphthalate	50.000	50.185	-0.4	83	0.00	12.45
83	P	Fluoranthene	50.000	48.812	2.4	78	0.00	13.37
84	I	Chrysene-d12	40.000	40.000	0.0	85	0.00	16.08
		----------	Amount	Calc.	%Drift		----------	
85		Benzidine		----------NA----------				
		----------	Amount	Calc.	%Drift		----------	
86	P	Pyrene	50.000	50.052	-0.1	84	0.00	13.78

Initial Calibration Verification

Job Number: FA23258
Account: FPMRNYR FPM Remediations
Project: HM-AZ PBR Holloman AFB; Alamogordo, NM

Sample: SL3629-ICV3629
Lab FileID: L0681704.D

87	S	Terphenyl-d14		----------NA----------				
88	P	Butylbenzylphthalate	50.000	51.519	-3.0	80	0.00	15.24
89	P	3,3'-Dichlorobenzidine		----------NA----------				
90	P	Benzo[a]anthracene	50.000	49.250	1.5	80	0.00	16.06
91	P	Chrysene	50.000	50.759	-1.5	82	0.00	16.13
92	P	bis(2-Ethylhexyl)phthalat	50.000	49.471	1.1	79	0.00	16.45
93	I	Perylene-d12	40.000	40.000	0.0	80	0.00	18.60
94	P	Di-n-octylphthalate	50.000	53.231	-6.5	79	0.00	17.56
95	P	Benzo[b]fluoranthene	50.000	50.298	-0.6	76	0.00	17.98
96	P	Benzo[k]fluoranthene	50.000	48.263	3.5	79	0.00	18.03
97	P	Benzo[a]pyrene	50.000	50.666	-1.3	80	0.00	18.50
98	P	Indeno[1,2,3-cd]pyrene	50.000	50.783	-1.6	75	0.00	20.19
99	P	Dibenz[a,h]anthracene	50.000	50.194	-0.4	79	0.00	20.23
100	P	Benzo[g,h,i]perylene	50.000	48.300	3.4	75	0.00	20.54

(#) = Out of Range SPCC's out = 0 CCC's out = 0
L0681700.D 8270da0402.m Mon Apr 06 13:45:49 2015

6.7.2

6

Initial Calibration Verification

Job Number: FA23258
Account: FPMRNYR FPM Remediations
Project: HM-AZ PBR Holloman AFB; Alamogordo, NM
Sample: SL3629-ICV3629
Lab FileID: L0681705.D

Evaluate Continuing Calibration Report

```
Data File : C:\msdchem\1\DATA\sl3629\L0681705.D          Vial: 10
Acq On    :  2 Apr 2015   3:02 pm                     Operator: nareshj
Sample    : icv3629-50                                Inst    : MSBNA02
Misc      : op55410,sl3629,1000,,,1,1,water           Multiplr: 1.00
MS Integration Params: lscint.p

Method       : C:\msdchem\1\METHODS\8270da0402.m (RTE Integrator)
Title        : SW846 8270D OR EPA 625
Last Update  : Thu Apr 02 15:27:09 2015
Response via : Multiple Level Calibration

Min. RRF     :   0.000  Min. Rel. Area :  50%  Max. R.T. Dev  0.50min
Max. RRF Dev :  20%     Max. Rel. Area : 200%
```

		Compound	Amount	Calc.	%Drift	Area%	Dev(min)	R.T.
1	I	1,4-Dichlorobenzene-d4	40.000	40.000	0.0	103	0.00	5.14
2		1,4-Dioxane		----------NA----------				
3		N-nitrosodimethylamine		----------NA----------				
4		Pyridine	50.000	44.999	10.0	97	0.00	3.07
		----------	Amount	Calc.	%Drift	----------		
5	P	Benzaldehyde	25.000	21.599	13.6	82	0.00	4.80
		----------	Amount	Calc.	%Drift	----------		
6		Aniline	50.000	48.167	3.7	100	0.00	4.91
7	S	2-Fluorophenol		----------NA----------				
8	P	bis(2-Chloroethyl)ether		----------NA----------				
9	S	Phenol-d5		----------NA----------				
10	P	Phenol		----------NA----------				
11	P	2-Chlorophenol		----------NA----------				
12		1,3-Dichlorobenzene		----------NA----------				
13		1,4-Dichlorobenzene		----------NA----------				
14		1,2-Dichlorobenzene		----------NA----------				
15		Benzyl alcohol	50.000	43.970	12.1	84	0.00	5.27
16	P	bis(2-chloroisopropyl)eth		----------NA----------				
17	P	2-Methylphenol		----------NA----------				
18	P	Acetophenone		----------NA----------				
19	P	Hexachloroethane		----------NA----------				
20	P	N-Nitroso-di-n-propylamin		----------NA----------				
21	P	3&4-Methylphenol		----------NA----------				
22	I	Naphthalene-d8	40.000	40.000	0.0	111	0.00	6.32
23	S	Nitrobenzene-d5		----------NA----------				
24	P	Nitrobenzene		----------NA----------				
25	P	Isophorone		----------NA----------				
26	P	2-Nitrophenol		----------NA----------				
27	P	2,4-Dimethylphenol		----------NA----------				
28	P	bis(2-Chloroethoxy)methan		----------NA----------				
29		Benzoic Acid		----------NA----------				
30	P	2,4-Dichlorophenol		----------NA----------				
31		1,2,4-Trichlorobenzene		----------NA----------				
32		alpha-Terpineol		----------NA----------				
33	P	Naphthalene		----------NA----------				
34	P	4-Chloroaniline	50.000	38.712	22.6#	83	0.00	6.41
35		2,6-Dichlorophenol		----------NA----------				
36	P	Hexachlorobutadiene		----------NA----------				
37	P	Caprolactam		----------NA----------				

Initial Calibration Verification

Job Number: FA23258
Account: FPMRNYR FPM Remediations
Project: HM-AZ PBR Holloman AFB; Alamogordo, NM

Sample: SL3629-ICV3629
Lab FileID: L0681705.D

38	P	4-Chloro-3-methylphenol		----------NA----------				
39	P	2-Methylnaphthalene	50.000	39.421	21.2#	89	0.00	7.15
40		1-Methylnaphthalene		----------NA----------				
41	P	1,2,4,5-Tetrachlorobenzen		----------NA----------				
42	I	Acenaphthene-d10	40.000	40.000	0.0	85	0.00	8.66
43	P	Hexachlorocyclopentadiene		----------NA----------				
44	P	2,4,6-Trichlorophenol		----------NA----------				
45	P	2,4,5-Trichlorophenol		----------NA----------				
46	S	2-Fluorobiphenyl		----------NA----------				
47	P	1,1'-Biphenyl		----------NA----------				
48	P	2-Chloronaphthalene		----------NA----------				
49	P	2-Nitroaniline	50.000	47.229	5.5	76	0.00	8.00
50		p-Dinitrobenzene		----------NA----------				
51	P	Acenaphthylene		----------NA----------				
52	P	Dimethylphthalate		----------NA----------				
53		m-Dinitrobenzene	50.000	47.779	4.4	78	0.00	8.33
54	P	2,6-Dinitrotoluene		----------NA----------				
55		o-Dinitrobenzene		----------NA----------				
56	P	Acenaphthene		----------NA----------				
57	P	3-Nitroaniline	50.000	53.994	-8.0	89	0.00	8.63
		----------	Amount	Calc.	%Drift	----------		
58	P	2,4-Dinitrophenol		----------NA----------				
		----------	Amount	Calc.	%Drift	----------		
59	P	Dibenzofuran	50.000	49.539	0.9	87	0.00	8.96
60	P	2,4-Dinitrotoluene		----------NA----------				
61	P	4-Nitrophenol		----------NA----------				
62		2,3,5,6-Tetrachlorophenol		----------NA----------				
63	P	2,3,4,6-Tetrachlorophenol		----------NA----------				
64	P	Fluorene		----------NA----------				
65	P	4-Chlorophenyl-phenylethe		----------NA----------				
66	P	Diethylphthalate		----------NA----------				
67	P	4-Nitroaniline	50.000	57.239	-14.5	92	-0.02	9.63
68	I	Phenanthrene-d10	40.000	40.000	0.0	89	0.00	11.14
69	P	4,6-Dinitro-2-methylpheno		----------NA----------				
70	P	n-Nitrosodiphenylamine		----------NA----------				
71		Diphenylamine		----------NA----------				
72		1,2-Diphenylhydrazine		----------NA----------				
73	S	2,4,6-Tribromophenol		----------NA----------				
74	P	4-Bromophenyl-phenylether		----------NA----------				
75	P	Hexachlorobenzene		----------NA----------				
76		Simazine		----------NA----------				
77	P	Atrazine		----------NA----------				
78	P	Pentachlorophenol		----------NA----------				
79	P	Phenanthrene		----------NA----------				
80	P	Anthracene		----------NA----------				
81	P	Carbazole	50.000	45.166	9.7	83	0.00	11.59
82	P	Di-n-butylphthalate		----------NA----------				
83	P	Fluoranthene		----------NA----------				
84	I	Chrysene-d12	40.000	40.000	0.0	104	0.00	16.07
		----------	Amount	Calc.	%Drift	----------		
85		Benzidine	50.000	51.308	-2.6	97	0.00	13.69
		----------	Amount	Calc.	%Drift	----------		
86	P	Pyrene		----------NA----------				

Initial Calibration Verification

Job Number: FA23258 **Sample:** SL3629-ICV3629
Account: FPMRNYR FPM Remediations **Lab FileID:** L0681705.D
Project: HM-AZ PBR Holloman AFB; Alamogordo, NM

87	S	Terphenyl-d14		----------NA----------				
88	P	Butylbenzylphthalate		----------NA----------				
89	P	3,3'-Dichlorobenzidine	50.000	44.499	11.0	83	0.00	16.11
90	P	Benzo[a]anthracene		----------NA----------				
91	P	Chrysene		----------NA----------				
92	P	bis(2-Ethylhexyl)phthalat		----------NA----------				
93	I	Perylene-d12	40.000	40.000	0.0	101	0.00	18.59
94	P	Di-n-octylphthalate		----------NA----------				
95	P	Benzo[b]fluoranthene		----------NA----------				
96	P	Benzo[k]fluoranthene		----------NA----------				
97	P	Benzo[a]pyrene		----------NA----------				
98	P	Indeno[1,2,3-cd]pyrene		----------NA----------				
99	P	Dibenz[a,h]anthracene		----------NA----------				
100	P	Benzo[g,h,i]perylene		----------NA----------				

(#) = Out of Range SPCC's out = 0 CCC's out = 0
L0681700.D 8270da0402.m Mon Apr 06 13:45:50 2015

6.7.3

6

Initial Calibration Verification

Job Number: FA23258
Account: FPMRNYR FPM Remediations
Project: HM-AZ PBR Holloman AFB; Alamogordo, NM

Sample: SL3630-ICV3629
Lab FileID: L0681725.D

Evaluate Continuing Calibration Report

```
Data File : C:\msdchem\1\DATA\sl3630\L0681725.D          Vial: 6
Acq On    :  3 Apr 2015   4:25 pm                     Operator: marthav
Sample    : icv3629-50                                Inst    : MSBNA02
Misc      : op55582,sl3630,30.0,,,1,1,soil            Multiplr: 1.00
MS Integration Params: lscint.p

Method       : C:\msdchem\1\METHODS\8270da0402.m (RTE Integrator)
Title        : SW846 8270D OR EPA 625
Last Update  : Thu Apr 02 15:27:09 2015
Response via : Multiple Level Calibration

Min. RRF     :   0.000  Min. Rel. Area :  50%  Max. R.T. Dev  0.50min
Max. RRF Dev :  20%     Max. Rel. Area : 200%
```

		Compound	Amount	Calc.	%Drift	Area%	Dev(min)	R.T.
1	I	1,4-Dichlorobenzene-d4	40.000	40.000	0.0	107	0.00	5.14
2		1,4-Dioxane		NA				
3		N-nitrosodimethylamine		NA				
4		Pyridine		NA				
		----------	Amount	Calc.	%Drift	----------		
5	P	Benzaldehyde		NA				
		----------	Amount	Calc.	%Drift	----------		
6		Aniline		NA				
7	S	2-Fluorophenol		NA				
8	P	bis(2-Chloroethyl)ether		NA				
9	S	Phenol-d5		NA				
10	P	Phenol		NA				
11	P	2-Chlorophenol		NA				
12		1,3-Dichlorobenzene		NA				
13		1,4-Dichlorobenzene		NA				
14		1,2-Dichlorobenzene		NA				
15		Benzyl alcohol		NA				
16	P	bis(2-chloroisopropyl)eth		NA				
17	P	2-Methylphenol		NA				
18	P	Acetophenone		NA				
19	P	Hexachloroethane		NA				
20	P	N-Nitroso-di-n-propylamin		NA				
21	P	3&4-Methylphenol		NA				
22	I	Naphthalene-d8	40.000	40.000	0.0	98	0.00	6.32
23	S	Nitrobenzene-d5		NA				
24	P	Nitrobenzene		NA				
25	P	Isophorone		NA				
26	P	2-Nitrophenol		NA				
27	P	2,4-Dimethylphenol		NA				
28	P	bis(2-Chloroethoxy)methan		NA				
29		Benzoic Acid		NA				
30	P	2,4-Dichlorophenol		NA				
31		1,2,4-Trichlorobenzene		NA				
32		alpha-Terpineol		NA				
33	P	Naphthalene		NA				
34	P	4-Chloroaniline		NA				
35		2,6-Dichlorophenol		NA				
36	P	Hexachlorobutadiene		NA				
37	P	Caprolactam		NA				

Initial Calibration Verification

Job Number: FA23258
Account: FPMRNYR FPM Remediations
Project: HM-AZ PBR Holloman AFB; Alamogordo, NM

Sample: SL3630-ICV3629
Lab FileID: L0681725.D

38	P	4-Chloro-3-methylphenol		----------NA----------				
39	P	2-Methylnaphthalene	50.000	47.467	5.1	95	0.00	7.15
40		1-Methylnaphthalene		----------NA----------				
41	P	1,2,4,5-Tetrachlorobenzen		----------NA----------				
42	I	Acenaphthene-d10	40.000	40.000	0.0	80	0.00	8.66
43	P	Hexachlorocyclopentadiene		----------NA----------				
44	P	2,4,6-Trichlorophenol		----------NA----------				
45	P	2,4,5-Trichlorophenol		----------NA----------				
46	S	2-Fluorobiphenyl		----------NA----------				
47	P	1,1'-Biphenyl		----------NA----------				
48	P	2-Chloronaphthalene		----------NA----------				
49	P	2-Nitroaniline		----------NA----------				
50		p-Dinitrobenzene		----------NA----------				
51	P	Acenaphthylene		----------NA----------				
52	P	Dimethylphthalate		----------NA----------				
53		m-Dinitrobenzene		----------NA----------				
54	P	2,6-Dinitrotoluene		----------NA----------				
55		o-Dinitrobenzene		----------NA----------				
56	P	Acenaphthene		----------NA----------				
57	P	3-Nitroaniline		----------NA----------				
		----------	Amount	Calc.	%Drift	----------		
58	P	2,4-Dinitrophenol		----------NA----------				
		----------	Amount	Calc.	%Drift	----------		
59	P	Dibenzofuran		----------NA----------				
60	P	2,4-Dinitrotoluene		----------NA----------				
61	P	4-Nitrophenol		----------NA----------				
62		2,3,5,6-Tetrachlorophenol		----------NA----------				
63	P	2,3,4,6-Tetrachlorophenol		----------NA----------				
64	P	Fluorene		----------NA----------				
65	P	4-Chlorophenyl-phenylethe		----------NA----------				
66	P	Diethylphthalate		----------NA----------				
67	P	4-Nitroaniline		----------NA----------				
68	I	Phenanthrene-d10	40.000	40.000	0.0	80	-0.01	11.13
69	P	4,6-Dinitro-2-methylpheno		----------NA----------				
70	P	n-Nitrosodiphenylamine		----------NA----------				
71		Diphenylamine		----------NA----------				
72		1,2-Diphenylhydrazine		----------NA----------				
73	S	2,4,6-Tribromophenol		----------NA----------				
74	P	4-Bromophenyl-phenylether		----------NA----------				
75	P	Hexachlorobenzene		----------NA----------				
76		Simazine		----------NA----------				
77	P	Atrazine		----------NA----------				
78	P	Pentachlorophenol		----------NA----------				
79	P	Phenanthrene		----------NA----------				
80	P	Anthracene		----------NA----------				
81	P	Carbazole		----------NA----------				
82	P	Di-n-butylphthalate		----------NA----------				
83	P	Fluoranthene		----------NA----------				
84	I	Chrysene-d12	40.000	40.000	0.0	82	-0.01	16.07
		----------	Amount	Calc.	%Drift	----------		
85		Benzidine		----------NA----------				
		----------	Amount	Calc.	%Drift	----------		
86	P	Pyrene		----------NA----------				

Initial Calibration Verification

Job Number: FA23258 **Sample:** SL3630-ICV3629
Account: FPMRNYR FPM Remediations **Lab FileID:** L0681725.D
Project: HM-AZ PBR Holloman AFB; Alamogordo, NM

87	S	Terphenyl-d14		----------NA----------				
88	P	Butylbenzylphthalate		----------NA----------				
89	P	3,3'-Dichlorobenzidine		----------NA----------				
90	P	Benzo[a]anthracene		----------NA----------				
91	P	Chrysene		----------NA----------				
92	P	bis(2-Ethylhexyl)phthalat		----------NA----------				
93	I	Perylene-d12	40.000	40.000	0.0	78	0.00	18.59
94	P	Di-n-octylphthalate		----------NA----------				
95	P	Benzo[b]fluoranthene		----------NA----------				
96	P	Benzo[k]fluoranthene		----------NA----------				
97	P	Benzo[a]pyrene		----------NA----------				
98	P	Indeno[1,2,3-cd]pyrene		----------NA----------				
99	P	Dibenz[a,h]anthracene		----------NA----------				
100	P	Benzo[g,h,i]perylene		----------NA----------				

(#) = Out of Range SPCC's out = 0 CCC's out = 0
L0681700.D 8270da0402.m Mon Apr 06 13:20:27 2015

6.7.4

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Continuing Calibration Summary

Job Number: FA23258
Account: FPMRNYR FPM Remediations
Project: HM-AZ PBR Holloman AFB; Alamogordo, NM
Sample: SL3631-CC3629
Lab FileID: L0681730.D

Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\DATA\sl3631\L0681730.D Vial: 2
Acq On : 6 Apr 2015 9:58 am Operator: marthav
Sample : cc3629-50 Inst : MSBNA02
Misc : op55582,sl3631,30.0,,,1,1,soil Multiplr: 1.00
MS Integration Params: lscint.p

Method : C:\msdchem\1\METHODS\8270da0402.m (RTE Integrator)
Title : SW846 8270D OR EPA 625
Last Update : Thu Apr 02 15:27:09 2015
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	104	0.00	5.14
2		1,4-Dioxane	0.956	0.960	-0.4	112	0.00	2.74
3		N-nitrosodimethylamine	1.084	1.070	1.3	107	0.00	3.06
4		Pyridine	2.274	2.250	1.1	108	0.00	3.06
		----------	Amount	Calc.	%Drift		----------	
5	P	Benzaldehyde	50.000	53.607	-7.2	103	0.00	4.80
		----------	AvgRF	CCRF	%Dev		----------	
6		Aniline	2.266	2.165	4.5	100	0.00	4.91
7	S	2-Fluorophenol	1.573	1.575	-0.1	107	0.00	4.19
8	P	bis(2-Chloroethyl)ether	1.541	1.497	2.9	99	0.00	4.95
9	S	Phenol-d5	1.685	1.648	2.2	103	0.00	4.89
10	P	Phenol	2.115	2.082	1.6	104	0.00	4.90
11	P	2-Chlorophenol	1.435	1.372	4.4	99	0.00	5.00
12		1,3-Dichlorobenzene	1.603	1.588	0.9	103	0.00	5.11
13		1,4-Dichlorobenzene	1.500	1.496	0.3	102	0.00	5.16
14		1,2-Dichlorobenzene	1.464	1.433	2.1	102	0.00	5.31
15		Benzyl alcohol	1.064	1.061	0.3	95	0.00	5.26
16	P	bis(2-chloroisopropyl)eth	2.761	2.618	5.2	100	0.00	5.39
17	P	2-Methylphenol	1.386	1.359	1.9	97	0.00	5.37
18	P	Acetophenone	1.953	1.943	0.5	99	0.00	5.50
19	P	Hexachloroethane	0.605	0.603	0.3	100	0.00	5.58
20	P	N-Nitroso-di-n-propylamin	0.983	0.956	2.7	93	0.00	5.52
21	P	3&4-Methylphenol	1.489	1.538	-3.3	101	0.00	5.49
22	I	Naphthalene-d8	1.000	1.000	0.0	95	0.00	6.33
23	S	Nitrobenzene-d5	0.442	0.449	-1.6	96	0.00	5.64
24	P	Nitrobenzene	0.440	0.454	-3.2	99	0.00	5.65
25	P	Isophorone	0.822	0.846	-2.9	97	0.00	5.86
26	P	2-Nitrophenol	0.221	0.225	-1.8	92	0.00	5.95
27	P	2,4-Dimethylphenol	0.385	0.394	-2.3	97	0.00	5.98
28	P	bis(2-Chloroethoxy)methan	0.507	0.516	-1.8	97	0.00	6.07
29		Benzoic Acid	0.325	0.322	0.9	88	-0.02	6.09
30	P	2,4-Dichlorophenol	0.324	0.323	0.3	93	0.00	6.18
31		1,2,4-Trichlorobenzene	0.370	0.370	0.0	95	0.00	6.28
32		alpha-Terpineol		----------NA----------				
33	P	Naphthalene	1.000	1.008	-0.8	98	0.00	6.35
34	P	4-Chloroaniline	0.498	0.520	-4.4	95	0.00	6.42
35		2,6-Dichlorophenol	0.307	0.314	-2.3	94	0.00	6.43
36	P	Hexachlorobutadiene	0.189	0.195	-3.2	97	0.00	6.54
37	P	Caprolactam	0.142	0.146	-2.8	91	-0.02	6.79

Continuing Calibration Summary

Job Number: FA23258 **Sample:** SL3631-CC3629
Account: FPMRNYR FPM Remediations **Lab FileID:** L0681730.D
Project: HM-AZ PBR Holloman AFB; Alamogordo, NM

38	P	4-Chloro-3-methylphenol	0.357	0.375	-5.0	95	0.00	6.98
39	P	2-Methylnaphthalene	0.781	0.798	-2.2	98	0.00	7.15
40		1-Methylnaphthalene	0.679	0.695	-2.4	97	0.00	7.29
41	P	1,2,4,5-Tetrachlorobenzen	0.341	0.351	-2.9	95	0.00	7.43
42	I	Acenaphthene-d10	1.000	1.000	0.0	96	0.00	8.66
43	P	Hexachlorocyclopentadiene	0.391	0.393	-0.5	94	0.00	7.45
44	P	2,4,6-Trichlorophenol	0.417	0.416	0.2	92	0.00	7.56
45	P	2,4,5-Trichlorophenol	0.433	0.423	2.3	90	0.00	7.61
46	S	2-Fluorobiphenyl	1.309	1.294	1.1	96	0.00	7.67
47	P	1,1'-Biphenyl	1.551	1.551	0.0	100	0.00	7.79
48	P	2-Chloronaphthalene	1.139	1.115	2.1	95	0.00	7.81
49	P	2-Nitroaniline	0.436	0.475	-8.9	99	0.00	7.99
50		p-Dinitrobenzene	0.287	0.312	-8.7	97	0.00	8.16
51	P	Acenaphthylene	1.850	1.836	0.8	99	0.00	8.43
52	P	Dimethylphthalate	1.309	1.330	-1.6	98	0.00	8.33
53		m-Dinitrobenzene	0.238	0.254	-6.7	98	0.00	8.34
54	P	2,6-Dinitrotoluene	0.312	0.332	-6.4	97	0.00	8.42
55		o-Dinitrobenzene	0.242	0.255	-5.4	101	0.00	8.52
56	P	Acenaphthene	1.128	1.097	2.7	93	0.00	8.72
57	P	3-Nitroaniline	0.409	0.414	-1.2	93	0.00	8.63
		----------	Amount	Calc.	%Drift		----------	
58	P	2,4-Dinitrophenol	50.000	47.649	4.7	88	0.00	8.78
		----------	AvgRF	CCRF	%Dev		----------	
59	P	Dibenzofuran	1.602	1.579	1.4	97	0.00	8.97
60	P	2,4-Dinitrotoluene	0.401	0.410	-2.2	92	0.00	9.04
61	P	4-Nitrophenol	0.165	0.175	-6.1	96	0.00	8.92
62		2,3,5,6-Tetrachlorophenol	0.376	0.391	-4.0	95	0.00	9.17
63	P	2,3,4,6-Tetrachlorophenol	0.365	0.374	-2.5	96	0.00	9.24
64	P	Fluorene	1.317	1.313	0.3	96	0.00	9.53
65	P	4-Chlorophenyl-phenylethe	0.578	0.571	1.2	95	0.00	9.55
66	P	Diethylphthalate	1.317	1.348	-2.4	96	0.00	9.49
67	P	4-Nitroaniline	0.381	0.395	-3.7	94	0.00	9.64
68	I	Phenanthrene-d10	1.000	1.000	0.0	102	0.00	11.14
69	P	4,6-Dinitro-2-methylpheno	0.138	0.139	-0.7	93	0.00	9.71
70	P	n-Nitrosodiphenylamine	0.513	0.483	5.8	96	0.00	9.77
71		Diphenylamine	0.615	0.580	5.7	96	0.00	9.77
72		1,2-Diphenylhydrazine	0.819	0.780	4.8	101	0.00	9.82
73	S	2,4,6-Tribromophenol	0.147	0.144	2.0	98	0.00	9.98
74	P	4-Bromophenyl-phenylether	0.231	0.220	4.8	95	0.00	10.39
75	P	Hexachlorobenzene	0.274	0.255	6.9	96	0.00	10.62
76		Simazine	0.111	0.103	7.2	93	0.00	10.72
77	P	Atrazine	0.205	0.197	3.9	98	0.00	10.80
78	P	Pentachlorophenol	0.171	0.168	1.8	95	0.00	10.94
79	P	Phenanthrene	1.049	0.998	4.9	99	0.00	11.18
80	P	Anthracene	1.040	0.987	5.1	97	0.00	11.26
81	P	Carbazole	1.053	0.996	5.4	99	0.00	11.58
82	P	Di-n-butylphthalate	1.282	1.231	4.0	101	0.00	12.44
83	P	Fluoranthene	1.161	1.137	2.1	99	0.00	13.37
84	I	Chrysene-d12	1.000	1.000	0.0	98	0.00	16.08
		----------	Amount	Calc.	%Drift		----------	
85		Benzidine	50.000	58.917	-17.8	102	0.00	13.68
		----------	AvgRF	CCRF	%Dev		----------	
86	P	Pyrene	1.333	1.343	-0.8	97	0.00	13.77

Continuing Calibration Summary

Job Number: FA23258 **Sample:** SL3631-CC3629
Account: FPMRNYR FPM Remediations **Lab FileID:** L0681730.D
Project: HM-AZ PBR Holloman AFB; Alamogordo, NM

87	S	Terphenyl-d14	0.927	0.979	-5.6	98	0.00	14.18
88	P	Butylbenzylphthalate	0.659	0.739	-12.1	100	0.00	15.24
89	P	3,3'-Dichlorobenzidine	0.416	0.466	-12.0	98	0.00	16.10
90	P	Benzo[a]anthracene	1.199	1.279	-6.7	99	0.00	16.05
91	P	Chrysene	0.967	1.016	-5.1	98	0.00	16.13
92	P	bis(2-Ethylhexyl)phthalat	0.778	0.861	-10.7	101	0.00	16.44
93	I	Perylene-d12	1.000	1.000	0.0	97	0.00	18.60
94	P	Di-n-octylphthalate	1.517	1.696	-11.8	101	0.00	17.55
95	P	Benzo[b]fluoranthene	1.262	1.384	-9.7	101	0.00	17.98
96	P	Benzo[k]fluoranthene	1.176	1.175	0.1	99	0.00	18.03
97	P	Benzo[a]pyrene	1.215	1.283	-5.6	101	0.00	18.50
98	P	Indeno[1,2,3-cd]pyrene	0.955	1.014	-6.2	96	0.00	20.19
99	P	Dibenz[a,h]anthracene	0.896	0.950	-6.0	102	0.00	20.23
100	P	Benzo[g,h,i]perylene	1.003	1.056	-5.3	99	0.00	20.54

(#) = Out of Range SPCC's out = 0 CCC's out = 0
L0681700.D 8270da0402.m Tue Apr 07 08:57:17 2015

6.7.5

6

Continuing Calibration Summary

Job Number: FA23258
Account: FPMRNYR FPM Remediations
Project: HM-AZ PBR Holloman AFB; Alamogordo, NM
Sample: SL3631-ECC3629
Lab FileID: L0681755.D

Evaluate Continuing Calibration Report

```
Data File : C:\msdchem\1\DATA\sl3631\L0681755.D          Vial: 2
Acq On    :  6 Apr 2015  10:48 pm                    Operator: marthav
Sample    : ecc3629-50                               Inst    : MSBNA02
Misc      : op55410,sl3631,1000,,,1,1,water          Multiplr: 1.00
MS Integration Params: lscint.p

Method       : C:\msdchem\1\METHODS\8270da0402.m (RTE Integrator)
Title        : SW846 8270D OR EPA 625
Last Update  : Thu Apr 02 15:27:09 2015
Response via : Multiple Level Calibration

Min. RRF     :   0.000  Min. Rel. Area :  50%  Max. R.T. Dev  0.50min
Max. RRF Dev :  50%     Max. Rel. Area : 200%
```

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	91	0.00	5.15
2		1,4-Dioxane	0.956	0.929	2.8	95	0.00	2.74
3		N-nitrosodimethylamine	1.084	1.113	-2.7	97	0.00	3.06
4		Pyridine	2.274	2.117	6.9	89	0.00	3.07
		----------	Amount	Calc.	%Drift		----------	
5	P	Benzaldehyde	50.000	41.845	16.3	75	0.00	4.80
		----------	AvgRF	CCRF	%Dev		----------	
6		Aniline	2.266	2.213	2.3	90	0.00	4.91
7	S	2-Fluorophenol	1.573	1.554	1.2	93	0.00	4.18
8	P	bis(2-Chloroethyl)ether	1.541	1.588	-3.0	92	0.00	4.95
9	S	Phenol-d5	1.685	1.696	-0.7	93	0.00	4.89
10	P	Phenol	2.115	2.108	0.3	92	0.00	4.89
11	P	2-Chlorophenol	1.435	1.408	1.9	89	0.00	5.00
12		1,3-Dichlorobenzene	1.603	1.558	2.8	89	0.00	5.11
13		1,4-Dichlorobenzene	1.500	1.541	-2.7	92	0.00	5.16
14		1,2-Dichlorobenzene	1.464	1.494	-2.0	93	0.00	5.31
15		Benzyl alcohol	1.064	1.034	2.8	82	0.00	5.27
16	P	bis(2-chloroisopropyl)eth	2.761	2.881	-4.3	96	0.00	5.40
17	P	2-Methylphenol	1.386	1.413	-1.9	89	0.00	5.37
18	P	Acetophenone	1.953	2.050	-5.0	92	0.00	5.50
19	P	Hexachloroethane	0.605	0.643	-6.3	94	0.00	5.58
20	P	N-Nitroso-di-n-propylamin	0.983	1.062	-8.0	90	0.00	5.51
21	P	3&4-Methylphenol	1.489	1.560	-4.8	90	0.00	5.49
22	I	Naphthalene-d8	1.000	1.000	0.0	88	0.00	6.33
23	S	Nitrobenzene-d5	0.442	0.450	-1.8	89	0.00	5.64
24	P	Nitrobenzene	0.440	0.439	0.2	90	0.00	5.65
25	P	Isophorone	0.822	0.842	-2.4	90	0.00	5.86
26	P	2-Nitrophenol	0.221	0.223	-0.9	85	0.00	5.95
27	P	2,4-Dimethylphenol	0.385	0.398	-3.4	91	0.00	5.98
28	P	bis(2-Chloroethoxy)methan	0.507	0.537	-5.9	94	0.00	6.07
29		Benzoic Acid	0.325	0.311	4.3	79	-0.02	6.09
30	P	2,4-Dichlorophenol	0.324	0.319	1.5	85	0.00	6.19
31		1,2,4-Trichlorobenzene	0.370	0.359	3.0	85	0.00	6.28
32		alpha-Terpineol		----------NA----------				
33	P	Naphthalene	1.000	1.003	-0.3	91	0.00	6.35
34	P	4-Chloroaniline	0.498	0.512	-2.8	87	0.00	6.42
35		2,6-Dichlorophenol	0.307	0.310	-1.0	86	0.00	6.43
36	P	Hexachlorobutadiene	0.189	0.192	-1.6	89	0.00	6.54
37	P	Caprolactam	0.142	0.145	-2.1	85	-0.02	6.79

Continuing Calibration Summary

Job Number: FA23258 **Sample:** SL3631-ECC3629
Account: FPMRNYR FPM Remediations **Lab FileID:** L0681755.D
Project: HM-AZ PBR Holloman AFB; Alamogordo, NM

38	P	4-Chloro-3-methylphenol	0.357	0.378	-5.9	89	0.00	6.98
39	P	2-Methylnaphthalene	0.781	0.787	-0.8	90	0.00	7.15
40		1-Methylnaphthalene	0.679	0.670	1.3	87	0.00	7.29
41	P	1,2,4,5-Tetrachlorobenzen	0.341	0.339	0.6	86	0.00	7.43
42	I	Acenaphthene-d10	1.000	1.000	0.0	90	0.00	8.67
43	P	Hexachlorocyclopentadiene	0.391	0.341	12.8	77	0.00	7.45
44	P	2,4,6-Trichlorophenol	0.417	0.406	2.6	84	0.00	7.56
45	P	2,4,5-Trichlorophenol	0.433	0.419	3.2	84	0.00	7.61
46	S	2-Fluorobiphenyl	1.309	1.265	3.4	88	0.00	7.67
47	P	1,1'-Biphenyl	1.551	1.534	1.1	93	0.00	7.79
48	P	2-Chloronaphthalene	1.139	1.122	1.5	90	0.00	7.81
49	P	2-Nitroaniline	0.436	0.470	-7.8	92	0.00	7.99
50		p-Dinitrobenzene	0.287	0.302	-5.2	88	0.00	8.16
51	P	Acenaphthylene	1.850	1.821	1.6	92	0.00	8.43
52	P	Dimethylphthalate	1.309	1.327	-1.4	91	0.00	8.33
53		m-Dinitrobenzene	0.238	0.247	-3.8	89	0.00	8.33
54	P	2,6-Dinitrotoluene	0.312	0.322	-3.2	88	0.00	8.42
55		o-Dinitrobenzene	0.242	0.245	-1.2	91	0.00	8.52
56	P	Acenaphthene	1.128	1.143	-1.3	90	0.00	8.71
57	P	3-Nitroaniline	0.409	0.414	-1.2	87	0.00	8.63
		----------	Amount	Calc.	%Drift	----------		
58	P	2,4-Dinitrophenol	50.000	38.047	23.9	64	0.00	8.79
		----------	AvgRF	CCRF	%Dev	----------		
59	P	Dibenzofuran	1.602	1.576	1.6	90	0.00	8.96
60	P	2,4-Dinitrotoluene	0.401	0.408	-1.7	86	0.00	9.04
61	P	4-Nitrophenol	0.165	0.168	-1.8	86	0.00	8.93
62		2,3,5,6-Tetrachlorophenol	0.376	0.378	-0.5	86	0.00	9.17
63	P	2,3,4,6-Tetrachlorophenol	0.365	0.358	1.9	86	0.00	9.25
64	P	Fluorene	1.317	1.319	-0.2	91	0.00	9.53
65	P	4-Chlorophenyl-phenylethe	0.578	0.582	-0.7	91	0.00	9.55
66	P	Diethylphthalate	1.317	1.372	-4.2	92	-0.01	9.48
67	P	4-Nitroaniline	0.381	0.391	-2.6	87	-0.01	9.64
68	I	Phenanthrene-d10	1.000	1.000	0.0	95	0.00	11.14
69	P	4,6-Dinitro-2-methylpheno	0.138	0.117	15.2	72	-0.01	9.71
70	P	n-Nitrosodiphenylamine	0.513	0.490	4.5	90	0.00	9.77
71		Diphenylamine	0.615	0.588	4.4	90	0.00	9.77
72		1,2-Diphenylhydrazine	0.819	0.784	4.3	94	0.00	9.81
73	S	2,4,6-Tribromophenol	0.147	0.146	0.7	93	0.00	9.97
74	P	4-Bromophenyl-phenylether	0.231	0.223	3.5	89	0.00	10.39
75	P	Hexachlorobenzene	0.274	0.259	5.5	91	0.00	10.62
76		Simazine	0.111	0.103	7.2	87	-0.01	10.72
77	P	Atrazine	0.205	0.188	8.3	87	-0.01	10.80
78	P	Pentachlorophenol	0.171	0.163	4.7	85	0.00	10.95
79	P	Phenanthrene	1.049	0.992	5.4	92	0.00	11.18
80	P	Anthracene	1.040	0.973	6.4	89	0.00	11.26
81	P	Carbazole	1.053	0.969	8.0	90	0.00	11.59
82	P	Di-n-butylphthalate	1.282	1.252	2.3	96	0.00	12.44
83	P	Fluoranthene	1.161	1.110	4.4	90	0.00	13.37
84	I	Chrysene-d12	1.000	1.000	0.0	81	0.00	16.08
		----------	Amount	Calc.	%Drift	----------		
85		Benzidine	50.000	53.234	-6.5	78	0.00	13.69
		----------	AvgRF	CCRF	%Dev	----------		
86	P	Pyrene	1.333	1.472	-10.4	89	0.00	13.77

Continuing Calibration Summary

Job Number: FA23258 **Sample:** SL3631-ECC3629
Account: FPMRNYR FPM Remediations **Lab FileID:** L0681755.D
Project: HM-AZ PBR Holloman AFB; Alamogordo, NM

87	S	Terphenyl-d14	0.927	1.069	-15.3	89	0.00	14.17
88	P	Butylbenzylphthalate	0.659	0.793	-20.3	89	0.00	15.24
89	P	3,3'-Dichlorobenzidine	0.416	0.465	-11.8	82	0.00	16.10
90	P	Benzo[a]anthracene	1.199	1.363	-13.7	88	0.00	16.05
91	P	Chrysene	0.967	1.079	-11.6	87	0.00	16.13
92	P	bis(2-Ethylhexyl)phthalat	0.778	0.938	-20.6	92	0.00	16.44
93	I	Perylene-d12	1.000	1.000	0.0	87	0.00	18.60
94	P	Di-n-octylphthalate	1.517	1.648	-8.6	88	0.00	17.55
95	P	Benzo[b]fluoranthene	1.262	1.322	-4.8	87	0.00	17.98
96	P	Benzo[k]fluoranthene	1.176	1.123	4.5	85	-0.01	18.03
97	P	Benzo[a]pyrene	1.215	1.249	-2.8	89	-0.01	18.50
98	P	Indeno[1,2,3-cd]pyrene	0.955	1.068	-11.8	91	-0.01	20.19
99	P	Dibenz[a,h]anthracene	0.896	0.976	-8.9	94	-0.01	20.23
100	P	Benzo[g,h,i]perylene	1.003	1.044	-4.1	88	-0.01	20.54

(#) = Out of Range SPCC's out = 0 CCC's out = 0
L0681700.D 8270da0402.m Tue Apr 07 08:19:52 2015

Continuing Calibration Summary

Job Number: FA23258
Account: FPMRNYR FPM Remediations
Project: HM-AZ PBR Holloman AFB; Alamogordo, NM

Sample: SL3632-CC3629
Lab FileID: L0681758.D

Evaluate Continuing Calibration Report

```
Data File : C:\msdchem\1\DATA\sl3632\L0681758.D          Vial: 2
Acq On    :  7 Apr 2015  12:09 pm                     Operator: marthav
Sample    : cc3629-50                                 Inst    : MSBNA02
Misc      : op55582,sl3632,30.0,,,1,1,soil            Multiplr: 1.00
MS Integration Params: lscint.p

Method       : C:\msdchem\1\METHODS\8270da0402.m (RTE Integrator)
Title        : SW846 8270D OR EPA 625
Last Update  : Thu Apr 02 15:27:09 2015
Response via : Multiple Level Calibration

Min. RRF     :   0.000  Min. Rel. Area :  50%  Max. R.T. Dev  0.50min
Max. RRF Dev :  20%     Max. Rel. Area : 200%
```

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	130	-0.02	5.13
2		1,4-Dioxane	0.956	0.969	-1.4	141	0.00	2.74
3		N-nitrosodimethylamine	1.084	0.988	8.9	123	-0.01	3.05
4		Pyridine	2.274	2.191	3.6	131	-0.01	3.05
		----------	Amount	Calc.	%Drift		----------	
5	P	Benzaldehyde	50.000	48.056	3.9	119	-0.02	4.79
		----------	AvgRF	CCRF	%Dev		----------	
6		Aniline	2.266	2.283	-0.8	131	-0.02	4.89
7	S	2-Fluorophenol	1.573	1.506	4.3	128	-0.02	4.17
8	P	bis(2-Chloroethyl)ether	1.541	1.641	-6.5	135	-0.02	4.94
9	S	Phenol-d5	1.685	1.647	2.3	129	-0.02	4.87
10	P	Phenol	2.115	2.131	-0.8	132	-0.02	4.88
11	P	2-Chlorophenol	1.435	1.485	-3.5	134	-0.02	4.99
12		1,3-Dichlorobenzene	1.603	1.652	-3.1	134	-0.02	5.10
13		1,4-Dichlorobenzene	1.500	1.574	-4.9	134	-0.02	5.14
14		1,2-Dichlorobenzene	1.464	1.521	-3.9	134	-0.02	5.30
15		Benzyl alcohol	1.064	1.166	-9.6	131	-0.02	5.25
16	P	bis(2-chloroisopropyl)eth	2.761	2.765	-0.1	131	-0.02	5.38
17	P	2-Methylphenol	1.386	1.507	-8.7	134	-0.02	5.36
18	P	Acetophenone	1.953	1.951	0.1	124	-0.02	5.48
19	P	Hexachloroethane	0.605	0.679	-12.2	141	-0.02	5.56
20	P	N-Nitroso-di-n-propylamin	0.983	1.060	-7.8	128	-0.02	5.50
21	P	3&4-Methylphenol	1.489	1.642	-10.3	135	-0.02	5.48
22	I	Naphthalene-d8	1.000	1.000	0.0	118	-0.02	6.30
23	S	Nitrobenzene-d5	0.442	0.486	-10.0	129	-0.02	5.62
24	P	Nitrobenzene	0.440	0.470	-6.8	128	-0.02	5.64
25	P	Isophorone	0.822	0.900	-9.5	128	-0.02	5.85
26	P	2-Nitrophenol	0.221	0.256	-15.8	130	-0.02	5.94
27	P	2,4-Dimethylphenol	0.385	0.422	-9.6	129	-0.02	5.96
28	P	bis(2-Chloroethoxy)methan	0.507	0.577	-13.8	134	-0.02	6.05
29		Benzoic Acid	0.325	0.409	-25.8#	138	-0.02	6.09
30	P	2,4-Dichlorophenol	0.324	0.368	-13.6	131	-0.02	6.17
31		1,2,4-Trichlorobenzene	0.370	0.413	-11.6	131	-0.02	6.26
32		alpha-Terpineol		----------	NA	----------		
33	P	Naphthalene	1.000	1.043	-4.3	126	-0.02	6.33
34	P	4-Chloroaniline	0.498	0.563	-13.1	128	-0.02	6.40
35		2,6-Dichlorophenol	0.307	0.350	-14.0	130	-0.02	6.41
36	P	Hexachlorobutadiene	0.189	0.215	-13.8	133	-0.02	6.52
37	P	Caprolactam	0.142	0.159	-12.0	124	-0.03	6.78

Continuing Calibration Summary

Job Number: FA23258 **Sample:** SL3632-CC3629
Account: FPMRNYR FPM Remediations **Lab FileID:** L0681758.D
Project: HM-AZ PBR Holloman AFB; Alamogordo, NM

38	P	4-Chloro-3-methylphenol	0.357	0.411	-15.1	129	-0.02	6.96
39	P	2-Methylnaphthalene	0.781	0.844	-8.1	129	-0.02	7.13
40		1-Methylnaphthalene	0.679	0.736	-8.4	128	-0.02	7.27
41	P	1,2,4,5-Tetrachlorobenzen	0.341	0.383	-12.3	129	-0.02	7.41
42	I	Acenaphthene-d10	1.000	1.000	0.0	120	-0.02	8.64
43	P	Hexachlorocyclopentadiene	0.391	0.448	-14.6	135	-0.03	7.43
44	P	2,4,6-Trichlorophenol	0.417	0.458	-9.8	126	-0.02	7.54
45	P	2,4,5-Trichlorophenol	0.433	0.459	-6.0	122	-0.03	7.59
46	S	2-Fluorobiphenyl	1.309	1.355	-3.5	126	-0.02	7.65
47	P	1,1'-Biphenyl	1.551	1.513	2.5	122	-0.02	7.77
48	P	2-Chloronaphthalene	1.139	1.191	-4.6	127	-0.02	7.78
49	P	2-Nitroaniline	0.436	0.489	-12.2	127	-0.02	7.98
50		p-Dinitrobenzene	0.287	0.342	-19.2	132	-0.02	8.14
51	P	Acenaphthylene	1.850	1.861	-0.6	125	-0.03	8.40
52	P	Dimethylphthalate	1.309	1.366	-4.4	126	-0.02	8.31
53		m-Dinitrobenzene	0.238	0.276	-16.0	132	-0.02	8.32
54	P	2,6-Dinitrotoluene	0.312	0.352	-12.8	129	-0.02	8.40
55		o-Dinitrobenzene	0.242	0.260	-7.4	128	-0.02	8.51
56	P	Acenaphthene	1.128	1.213	-7.5	128	-0.03	8.69
57	P	3-Nitroaniline	0.409	0.456	-11.5	128	-0.02	8.61
		----------	Amount	Calc.	%Drift		----------	
58	P	2,4-Dinitrophenol	50.000	56.646	-13.3	132	-0.02	8.77
		----------	AvgRF	CCRF	%Dev		----------	
59	P	Dibenzofuran	1.602	1.602	0.0	123	-0.03	8.94
60	P	2,4-Dinitrotoluene	0.401	0.456	-13.7	128	-0.02	9.02
61	P	4-Nitrophenol	0.165	0.184	-11.5	126	-0.03	8.91
62		2,3,5,6-Tetrachlorophenol	0.376	0.437	-16.2	133	-0.02	9.15
63	P	2,3,4,6-Tetrachlorophenol	0.365	0.409	-12.1	132	-0.02	9.23
64	P	Fluorene	1.317	1.346	-2.2	123	-0.02	9.51
65	P	4-Chlorophenyl-phenylethe	0.578	0.626	-8.3	130	-0.02	9.54
66	P	Diethylphthalate	1.317	1.437	-9.1	129	-0.03	9.47
67	P	4-Nitroaniline	0.381	0.420	-10.2	124	-0.02	9.63
68	I	Phenanthrene-d10	1.000	1.000	0.0	123	-0.03	11.12
69	P	4,6-Dinitro-2-methylpheno	0.138	0.165	-19.6	133	-0.02	9.70
70	P	n-Nitrosodiphenylamine	0.513	0.523	-1.9	125	-0.02	9.76
71		Diphenylamine	0.615	0.628	-2.1	125	-0.02	9.76
72		1,2-Diphenylhydrazine	0.819	0.828	-1.1	129	-0.02	9.80
73	S	2,4,6-Tribromophenol	0.147	0.161	-9.5	133	-0.03	9.95
74	P	4-Bromophenyl-phenylether	0.231	0.244	-5.6	127	-0.02	10.36
75	P	Hexachlorobenzene	0.274	0.286	-4.4	130	-0.02	10.60
76		Simazine	0.111	0.113	-1.8	124	-0.02	10.71
77	P	Atrazine	0.205	0.201	2.0	121	-0.02	10.79
78	P	Pentachlorophenol	0.171	0.202	-18.1	137	-0.02	10.93
79	P	Phenanthrene	1.049	1.054	-0.5	126	-0.02	11.17
80	P	Anthracene	1.040	1.045	-0.5	125	-0.03	11.24
81	P	Carbazole	1.053	1.032	2.0	124	-0.03	11.57
82	P	Di-n-butylphthalate	1.282	1.291	-0.7	128	-0.03	12.42
83	P	Fluoranthene	1.161	1.137	2.1	120	-0.03	13.35
84	I	Chrysene-d12	1.000	1.000	0.0	116	-0.02	16.06
		----------	Amount	Calc.	%Drift		----------	
85		Benzidine	50.000	59.092	-18.2	121	-0.02	13.67
		----------	AvgRF	CCRF	%Dev		----------	
86	P	Pyrene	1.333	1.425	-6.9	122	-0.02	13.75

Continuing Calibration Summary

Job Number: FA23258 **Sample:** SL3632-CC3629
Account: FPMRNYR FPM Remediations **Lab FileID:** L0681758.D
Project: HM-AZ PBR Holloman AFB; Alamogordo, NM

87	S	Terphenyl-d14	0.927	1.068	-15.2	126	-0.03	14.15
88	P	Butylbenzylphthalate	0.659	0.805	-22.2#	129	-0.03	15.22
89	P	3,3'-Dichlorobenzidine	0.416	0.546	-31.3#	136	-0.03	16.08
90	P	Benzo[a]anthracene	1.199	1.365	-13.8	125	-0.03	16.03
91	P	Chrysene	0.967	1.120	-15.8	128	-0.02	16.11
92	P	bis(2-Ethylhexyl)phthalat	0.778	0.959	-23.3#	134	-0.03	16.42
93	I	Perylene-d12	1.000	1.000	0.0	119	-0.02	18.58
94	P	Di-n-octylphthalate	1.517	1.799	-18.6	132	-0.02	17.53
95	P	Benzo[b]fluoranthene	1.262	1.427	-13.1	128	-0.03	17.96
96	P	Benzo[k]fluoranthene	1.176	1.229	-4.5	128	-0.03	18.01
97	P	Benzo[a]pyrene	1.215	1.336	-10.0	130	-0.03	18.48
98	P	Indeno[1,2,3-cd]pyrene	0.955	1.129	-18.2	132	-0.03	20.17
99	P	Dibenz[a,h]anthracene	0.896	1.031	-15.1	136	-0.03	20.21
100	P	Benzo[g,h,i]perylene	1.003	1.135	-13.2	131	-0.03	20.52

(#) = Out of Range SPCC's out = 0 CCC's out = 0
L0681700.D 8270da0402.m Wed Apr 08 10:51:41 2015

6.7.7

6

Continuing Calibration Summary

Job Number: FA23258
Account: FPMRNYR FPM Remediations
Project: HM-AZ PBR Holloman AFB; Alamogordo, NM

Sample: SL3632-ECC3629
Lab FileID: L0681778.D

Evaluate Continuing Calibration Report

```
Data File : C:\msdchem\1\DATA\sl3632\L0681778.D          Vial: 2
Acq On    :  7 Apr 2015   9:16 pm                     Operator: marthav
Sample    : ecc3629-50                                Inst    : MSBNA02
Misc      : op55582,sl3632,30.0,,,1,1,soil            Multiplr: 1.00
MS Integration Params: lscint.p

Method       : C:\msdchem\1\METHODS\8270da0402.m (RTE Integrator)
Title        : SW846 8270D OR EPA 625
Last Update  : Thu Apr 02 15:27:09 2015
Response via : Multiple Level Calibration

Min. RRF     :   0.000  Min. Rel. Area :  50%  Max. R.T. Dev  0.50min
Max. RRF Dev :  50%     Max. Rel. Area : 200%
```

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	140	-0.02	5.13
2		1,4-Dioxane	0.956	0.897	6.2	140	-0.01	2.73
3		N-nitrosodimethylamine	1.084	1.023	5.6	137	0.00	3.06
4		Pyridine	2.274	2.158	5.1	139	-0.01	3.05
		----------	Amount	Calc.	%Drift		----------	
5	P	Benzaldehyde	50.000	43.428	13.1	118	-0.02	4.79
		----------	AvgRF	CCRF	%Dev		----------	
6		Aniline	2.266	2.367	-4.5	147	-0.02	4.89
7	S	2-Fluorophenol	1.573	1.491	5.2	136	-0.02	4.17
8	P	bis(2-Chloroethyl)ether	1.541	1.655	-7.4	147	-0.02	4.94
9	S	Phenol-d5	1.685	1.686	-0.1	142	-0.01	4.88
10	P	Phenol	2.115	2.176	-2.9	146	-0.01	4.89
11	P	2-Chlorophenol	1.435	1.508	-5.1	146	-0.02	4.99
12		1,3-Dichlorobenzene	1.603	1.653	-3.1	145	-0.02	5.10
13		1,4-Dichlorobenzene	1.500	1.591	-6.1	146	-0.02	5.14
14		1,2-Dichlorobenzene	1.464	1.543	-5.4	147	-0.02	5.29
15		Benzyl alcohol	1.064	1.207	-13.4	146	-0.02	5.25
16	P	bis(2-chloroisopropyl)eth	2.761	2.783	-0.8	142	-0.02	5.38
17	P	2-Methylphenol	1.386	1.535	-10.8	147	-0.02	5.36
18	P	Acetophenone	1.953	2.025	-3.7	139	-0.02	5.48
19	P	Hexachloroethane	0.605	0.657	-8.6	147	-0.02	5.56
20	P	N-Nitroso-di-n-propylamin	0.983	1.094	-11.3	143	-0.02	5.50
21	P	3&4-Methylphenol	1.489	1.680	-12.8	148	-0.02	5.48
22	I	Naphthalene-d8	1.000	1.000	0.0	129	-0.02	6.31
23	S	Nitrobenzene-d5	0.442	0.500	-13.1	145	-0.02	5.62
24	P	Nitrobenzene	0.440	0.482	-9.5	144	-0.02	5.64
25	P	Isophorone	0.822	0.895	-8.9	140	-0.02	5.85
26	P	2-Nitrophenol	0.221	0.256	-15.8	143	-0.02	5.94
27	P	2,4-Dimethylphenol	0.385	0.431	-11.9	145	-0.02	5.96
28	P	bis(2-Chloroethoxy)methan	0.507	0.576	-13.6	147	-0.02	6.06
29		Benzoic Acid	0.325	0.370	-13.8	137	-0.01	6.10
30	P	2,4-Dichlorophenol	0.324	0.370	-14.2	145	-0.02	6.17
31		1,2,4-Trichlorobenzene	0.370	0.415	-12.2	145	-0.02	6.26
32		alpha-Terpineol		----------NA----------				
33	P	Naphthalene	1.000	1.033	-3.3	137	-0.02	6.33
34	P	4-Chloroaniline	0.498	0.577	-15.9	144	-0.02	6.40
35		2,6-Dichlorophenol	0.307	0.356	-16.0	145	-0.02	6.41
36	P	Hexachlorobutadiene	0.189	0.219	-15.9	149	-0.02	6.52
37	P	Caprolactam	0.142	0.156	-9.9	134	-0.02	6.79

Continuing Calibration Summary

Job Number: FA23258 **Sample:** SL3632-ECC3629
Account: FPMRNYR FPM Remediations **Lab FileID:** L0681778.D
Project: HM-AZ PBR Holloman AFB; Alamogordo, NM

38	P	4-Chloro-3-methylphenol	0.357	0.416	-16.5	144	-0.02	6.96
39	P	2-Methylnaphthalene	0.781	0.840	-7.6	141	-0.02	7.13
40		1-Methylnaphthalene	0.679	0.741	-9.1	141	-0.02	7.27
41	P	1,2,4,5-Tetrachlorobenzen	0.341	0.388	-13.8	144	-0.02	7.40
42	I	Acenaphthene-d10	1.000	1.000	0.0	136	-0.02	8.64
43	P	Hexachlorocyclopentadiene	0.391	0.308	21.2	105	-0.03	7.43
44	P	2,4,6-Trichlorophenol	0.417	0.457	-9.6	143	-0.02	7.54
45	P	2,4,5-Trichlorophenol	0.433	0.464	-7.2	140	-0.02	7.60
46	S	2-Fluorobiphenyl	1.309	1.323	-1.1	140	-0.02	7.65
47	P	1,1'-Biphenyl	1.551	1.470	5.2	134	-0.02	7.77
48	P	2-Chloronaphthalene	1.139	1.176	-3.2	142	-0.02	7.78
49	P	2-Nitroaniline	0.436	0.501	-14.9	148	-0.02	7.98
50		p-Dinitrobenzene	0.287	0.343	-19.5	150	-0.02	8.14
51	P	Acenaphthylene	1.850	1.803	2.5	137	-0.03	8.40
52	P	Dimethylphthalate	1.309	1.350	-3.1	141	-0.02	8.31
53		m-Dinitrobenzene	0.238	0.275	-15.5	150	-0.02	8.32
54	P	2,6-Dinitrotoluene	0.312	0.347	-11.2	144	-0.02	8.40
55		o-Dinitrobenzene	0.242	0.257	-6.2	144	-0.02	8.51
56	P	Acenaphthene	1.128	1.196	-6.0	143	-0.02	8.70
57	P	3-Nitroaniline	0.409	0.456	-11.5	145	-0.02	8.62
		----------	Amount	Calc.	%Drift	----------		
58	P	2,4-Dinitrophenol	50.000	33.536	32.9	85	-0.02	8.77
		----------	AvgRF	CCRF	%Dev	----------		
59	P	Dibenzofuran	1.602	1.618	-1.0	140	-0.02	8.95
60	P	2,4-Dinitrotoluene	0.401	0.460	-14.7	146	-0.02	9.03
61	P	4-Nitrophenol	0.165	0.189	-14.5	147	-0.02	8.92
62		2,3,5,6-Tetrachlorophenol	0.376	0.430	-14.4	149	-0.02	9.16
63	P	2,3,4,6-Tetrachlorophenol	0.365	0.410	-12.3	150	-0.02	9.23
64	P	Fluorene	1.317	1.373	-4.3	143	-0.02	9.52
65	P	4-Chlorophenyl-phenylethe	0.578	0.635	-9.9	150	-0.02	9.54
66	P	Diethylphthalate	1.317	1.408	-6.9	143	-0.02	9.47
67	P	4-Nitroaniline	0.381	0.438	-15.0	147	-0.02	9.63
68	I	Phenanthrene-d10	1.000	1.000	0.0	139	-0.02	11.12
69	P	4,6-Dinitro-2-methylpheno	0.138	0.109	21.0	99	-0.02	9.70
70	P	n-Nitrosodiphenylamine	0.513	0.546	-6.4	148	-0.02	9.76
71		Diphenylamine	0.615	0.655	-6.5	148	-0.02	9.76
72		1,2-Diphenylhydrazine	0.819	0.818	0.1	144	-0.02	9.80
73	S	2,4,6-Tribromophenol	0.147	0.162	-10.2	151	-0.02	9.96
74	P	4-Bromophenyl-phenylether	0.231	0.251	-8.7	148	-0.02	10.36
75	P	Hexachlorobenzene	0.274	0.295	-7.7	152	-0.02	10.60
76		Simazine	0.111	0.108	2.7	134	-0.02	10.72
77	P	Atrazine	0.205	0.202	1.5	138	-0.02	10.80
78	P	Pentachlorophenol	0.171	0.199	-16.4	153	-0.02	10.93
79	P	Phenanthrene	1.049	1.040	0.9	141	-0.02	11.17
80	P	Anthracene	1.040	1.045	-0.5	141	-0.02	11.25
81	P	Carbazole	1.053	1.023	2.8	139	-0.02	11.57
82	P	Di-n-butylphthalate	1.282	1.299	-1.3	145	-0.02	12.42
83	P	Fluoranthene	1.161	1.145	1.4	137	-0.02	13.35
84	I	Chrysene-d12	1.000	1.000	0.0	126	-0.01	16.07
		----------	Amount	Calc.	%Drift	----------		
85		Benzidine	50.000	60.238	-20.5	134	-0.02	13.67
		----------	AvgRF	CCRF	%Dev	----------		
86	P	Pyrene	1.333	1.477	-10.8	138	-0.02	13.75

Continuing Calibration Summary

Job Number: FA23258 **Sample:** SL3632-ECC3629
Account: FPMRNYR FPM Remediations **Lab FileID:** L0681778.D
Project: HM-AZ PBR Holloman AFB; Alamogordo, NM

87	S	Terphenyl-d14	0.927	1.134	-22.3	146	-0.02	14.16
88	P	Butylbenzylphthalate	0.659	0.846	-28.4	147	-0.02	15.22
89	P	3,3'-Dichlorobenzidine	0.416	0.551	-32.5	149	-0.02	16.09
90	P	Benzo[a]anthracene	1.199	1.414	-17.9	141	-0.02	16.03
91	P	Chrysene	0.967	1.131	-17.0	141	-0.02	16.12
92	P	bis(2-Ethylhexyl)phthalat	0.778	1.013	-30.2	154	-0.02	16.42
93	I	Perylene-d12	1.000	1.000	0.0	128	-0.02	18.58
94	P	Di-n-octylphthalate	1.517	1.846	-21.7	145	-0.02	17.54
95	P	Benzo[b]fluoranthene	1.262	1.414	-12.0	137	-0.02	17.97
96	P	Benzo[k]fluoranthene	1.176	1.195	-1.6	133	-0.02	18.01
97	P	Benzo[a]pyrene	1.215	1.329	-9.4	138	-0.02	18.49
98	P	Indeno[1,2,3-cd]pyrene	0.955	1.148	-20.2	144	-0.02	20.18
99	P	Dibenz[a,h]anthracene	0.896	1.048	-17.0	149	-0.02	20.22
100	P	Benzo[g,h,i]perylene	1.003	1.122	-11.9	139	-0.02	20.53

(#) = Out of Range SPCC's out = 0 CCC's out = 0
L0681700.D 8270da0402.m Wed Apr 08 10:25:07 2015

6.7.8

6

Initial Calibration Summary

Job Number: FA23258
Account: FPMRNYR FPM Remediations
Project: HM-AZ PBR Holloman AFB; Alamogordo, NM
Sample: ST809-ICC809
Lab FileID: T017701.D

Response Factor Report MSBNA06

Method : C:\msdchem\1\METHODS\SIM_LV.M (RTE Integrator)
Title : PAH's by 8270 SIM
Last Update : Mon Apr 06 14:20:40 2015
Response via : Initial Calibration

Calibration Files
L1 =T017698.D L2 =T017699.D L3 =T017700.D L4 =T017701.D
L5 =T017702.D L6 =T017703.D L7 =T017704.D

Compound	L1	L2	L3	L4	L5	L6	L7	Avg	%RSD
1) I Naphthalene-d8	----------ISTD----------								
2)S Nitrobenzene-d5	0.447	0.440	0.452	0.469	0.497	0.472	0.456	0.462	4.14
3)P Naphthalene	1.250	1.274	1.209	1.242	1.309	1.232	1.145	1.237	4.17
4)P 2-Methylnaphthale	0.712	0.752	0.752	0.774	0.841	0.761	0.699	0.756	6.09
5)P 1-Methylnaphthale	0.683	0.750	0.721	0.741	0.774	0.694	0.633	0.714	6.65
6) I Acenaphthene-d10	----------ISTD----------								
7)S 2-Fluorobiphenyl	1.571	1.817	1.647	1.648	1.749	1.529	1.446	1.630	7.81
8)P Acenaphthylene	2.178	2.501	2.291	2.353	2.512	2.267	2.066	2.310	7.03
9)P Acenaphthene	1.477	1.456	1.454	1.433	1.518	1.320	1.220	1.411	7.38
10)P Fluorene	1.267	1.417	1.621	1.585	1.722	1.523	1.396	1.504	10.27
11) I Phenanthrene-d10	----------ISTD----------								
12)s 2,4,6-Tribromophe	0.156	0.201	0.094	0.102	0.116	0.122	0.116	0.129	28.64
---- Quadratic regr., Force(0,0) ---- Coefficient = 0.9993									
Response Ratio = 0.00000 + 0.12133 *A + -0.00012 *A^2									
13)P Pentachlorophenol	0.019	0.024	0.014	0.022	0.032	0.043	0.050	0.029#	45.71
---- Quadratic regr., Force(0,0) ---- Coefficient = 0.9987									
Response Ratio = 0.00000 + 0.03204 *A + 0.00036 *A^2									
14)P Phenanthrene	1.350	1.391	1.340	1.356	1.414	1.250	1.114	1.316	7.83
15)P Anthracene	1.428	1.452	1.382	1.407	1.488	1.395	1.241	1.399	5.59
16)P Fluoranthene	1.362	1.385	1.094	1.353	1.372	1.320	1.148	1.291	9.19
17) I Chrysene-d12	----------ISTD----------								
18)P Pyrene	1.832	1.861	1.750	2.217	1.967	1.633	1.526	1.827	12.39
19)S Terphenyl-d14	0.978	0.990	0.928	1.167	0.976	0.863	0.836	0.962	11.21
20)P Benzo[a]anthracen	1.353	1.338	1.278	1.300	1.400	1.334	1.308	1.330	3.01
21)P Chrysene	1.305	1.362	1.276	1.271	1.351	1.259	1.222	1.292	3.91
22) I Perylene-d12	----------ISTD----------								
23)P Benzo[b]fluoranth	1.348	1.385	1.372	1.406	1.526	1.456	1.517	1.430	4.96
24)P Benzo[k]fluoranth	1.503	1.596	1.489	1.513	1.631	1.504	1.493	1.533	3.71
25)P Benzo[a]pyrene	1.265	1.298	1.267	1.293	1.437	1.367	1.346	1.325	4.72
26)P Indeno[1,2,3-cd]p	1.040	1.038	0.888	0.931	1.030	1.013	1.021	0.994	6.05
27)P Dibenz[a,h]anthra	1.028	1.061	0.921	0.986	1.089	1.058	1.100	1.035	6.06
28)P Benzo[g,h,i]peryl	1.220	1.269	1.024	1.056	1.134	1.095	1.037	1.119	8.41

(#) = Out of Range

SIM_LV.M Mon Apr 06 14:23:47 2015

Initial Calibration Verification

Job Number: FA23258
Account: FPMRNYR FPM Remediations
Project: HM-AZ PBR Holloman AFB; Alamogordo, NM

Sample: ST809-ICV809
Lab FileID: T017706.D

Evaluate Continuing Calibration Report

```
Data File : C:\msdchem\1\DATA\st809\T017706.D            Vial: 9
Acq On    :  1 Apr 2015   5:38 pm                    Operator: mayrag
Sample    : icv809-4                                 Inst    : MSBNA06
Misc      : op55409,st809,250,,,1,1,water            Multiplr: 1.00
MS Integration Params: RTEINT.P

Method       : C:\msdchem\1\METHODS\SIM_LV.M (RTE Integrator)
Title        : PAH's by 8270 SIM
Last Update  : Mon Apr 06 14:20:40 2015
Response via : Multiple Level Calibration

Min. RRF     :   0.050  Min. Rel. Area :  50%  Max. R.T. Dev  0.50min
Max. RRF Dev :  20%     Max. Rel. Area : 200%
```

		Compound	Amount	Calc.	%Drift	Area%	Dev(min)	R.T.
1	I	Naphthalene-d8	500.000	500.000	0.0	84	0.00	6.37
2	S	Nitrobenzene-d5		----------NA----------				
3	P	Naphthalene	1000.000	899.920	10.0	75	0.00	6.39
4	P	2-Methylnaphthalene	1000.000	887.714	11.2	73	0.00	7.00
5	P	1-Methylnaphthalene	1000.000	965.082	3.5	78	0.00	7.08
6	I	Acenaphthene-d10	500.000	500.000	0.0	83	0.00	7.90
7	S	2-Fluorobiphenyl		----------NA----------				
8	P	Acenaphthylene	1000.000	903.300	9.7	74	0.00	7.78
9	P	Acenaphthene	1000.000	941.530	5.8	77	0.00	7.93
10	P	Fluorene	1000.000	989.724	1.0	78	0.00	8.39
11	I	Phenanthrene-d10	500.000	500.000	0.0	85	0.00	9.21
		----------	Amount	Calc.	%Drift		----------	
12	s	2,4,6-Tribromophenol		----------NA----------				
13	P	Pentachlorophenol	2500.000	2366.660	5.3	124	0.00	9.06
		----------	Amount	Calc.	%Drift		----------	
14	P	Phenanthrene	1000.000	930.491	7.0	77	0.00	9.23
15	P	Anthracene	500.000	423.610	15.3	72	0.00	9.27
16	P	Fluoranthene	1000.000	913.492	8.7	74	0.00	10.28
17	I	Chrysene-d12	500.000	500.000	0.0	86	0.00	11.74
18	P	Pyrene	1000.000	1057.881	-5.8	75	0.00	10.47
19	S	Terphenyl-d14		----------NA----------				
20	P	Benzo[a]anthracene	500.000	423.276	15.3	75	0.00	11.73
21	P	Chrysene	500.000	454.591	9.1	80	0.00	11.77
22	I	Perylene-d12	500.000	500.000	0.0	86	0.00	13.94
23	P	Benzo[b]fluoranthene	500.000	437.071	12.6	76	0.00	13.30
24	P	Benzo[k]fluoranthene	500.000	450.729	9.9	78	0.00	13.34
25	P	Benzo[a]pyrene	500.000	419.638	16.1	74	0.00	13.84
26	P	Indeno[1,2,3-cd]pyrene	500.000	403.211	19.4	74	0.00	15.88
27	P	Dibenz[a,h]anthracene	500.000	407.249	18.6	73	0.00	15.95
28	P	Benzo[g,h,i]perylene	500.000	416.935	16.6	76	0.00	16.37

(#) = Out of Range SPCC's out = 0 CCC's out = 0
T017701.D SIM_LV.M Mon Apr 06 14:23:35 2015

Continuing Calibration Summary

Job Number: FA23258
Account: FPMRNYR FPM Remediations
Project: HM-AZ PBR Holloman AFB; Alamogordo, NM

Sample: ST811-CC809
Lab FileID: T017724.D

Evaluate Continuing Calibration Report

```
Data File : C:\msdchem\1\DATA\st811\T017724.D            Vial: 2
Acq On    :  7 Apr 2015  10:26 am                     Operator: mayrag
Sample    : cc809-5                                   Inst    : MSBNA06
Misc      : op55409,st811,250,,,1,1,water             Multiplr: 1.00
MS Integration Params: RTEINT.P

Method       : C:\msdchem\1\METHODS\SIM_LV.M (RTE Integrator)
Title        : PAH's by 8270 SIM
Last Update  : Wed Apr 08 09:06:52 2015
Response via : Multiple Level Calibration

Min. RRF     :   0.050  Min. Rel. Area :  50%  Max. R.T. Dev  0.50min
Max. RRF Dev :  20%     Max. Rel. Area : 200%
```

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1	I	Naphthalene-d8	1.000	1.000	0.0	82	0.00	6.37
2	S	Nitrobenzene-d5	0.462	0.521	-12.8	86	0.00	5.76
3	P	Naphthalene	1.237	1.354	-9.5	85	0.00	6.39
4	P	2-Methylnaphthalene	0.756	0.874	-15.6	86	0.00	7.00
5	P	1-Methylnaphthalene	0.714	0.819	-14.7	87	0.00	7.08
6	I	Acenaphthene-d10	1.000	1.000	0.0	82	0.00	7.90
7	S	2-Fluorobiphenyl	1.630	1.875	-15.0	88	0.00	7.32
8	P	Acenaphthylene	2.310	2.614	-13.2	85	0.00	7.78
9	P	Acenaphthene	1.411	1.567	-11.1	84	0.00	7.93
10	P	Fluorene	1.504	1.755	-16.7	83	0.00	8.39
11	I	Phenanthrene-d10	1.000	1.000	0.0	80	0.00	9.21
			Amount	Calc.	%Drift			
12	s	2,4,6-Tribromophenol	4000.000	4127.500	-3.2	85	0.00	8.61
13	P	Pentachlorophenol	5000.000	5284.486	-5.7	94	0.00	9.07
			AvgRF	CCRF	%Dev			
14	P	Phenanthrene	1.316	1.455	-10.6	82	0.00	9.23
15	P	Anthracene	1.399	1.578	-12.8	85	0.00	9.27
16	P	Fluoranthene	1.291	1.528	-18.4	89	0.00	10.28
17	I	Chrysene-d12	1.000	1.000	0.0	101	0.00	11.74
18	P	Pyrene	1.827	1.978	-8.3	101	0.00	10.47
19	S	Terphenyl-d14	0.962	1.032	-7.3	107	0.00	10.63
20	P	Benzo[a]anthracene	1.330	1.453	-9.2	105	0.00	11.73
21	P	Chrysene	1.292	1.381	-6.9	103	0.00	11.77
22	I	Perylene-d12	1.000	1.000	0.0	95	0.00	13.93
23	P	Benzo[b]fluoranthene	1.430	1.614	-12.9	100	0.00	13.30
24	P	Benzo[k]fluoranthene	1.533	1.750	-14.2	101	0.00	13.34
25	P	Benzo[a]pyrene	1.325	1.540	-16.2	101	0.00	13.83
26	P	Indeno[1,2,3-cd]pyrene	0.994	1.080	-8.7	99	0.00	15.88
27	P	Dibenz[a,h]anthracene	1.035	1.150	-11.1	100	0.00	15.94
28	P	Benzo[g,h,i]perylene	1.119	1.208	-8.0	101	0.00	16.37

```
(#) = Out of Range                SPCC's out = 0  CCC's out = 0
 T017702.D  SIM_LV.M          Wed Apr 08 13:45:54 2015
```

Continuing Calibration Summary

Job Number: FA23258
Account: FPMRNYR FPM Remediations
Project: HM-AZ PBR Holloman AFB; Alamogordo, NM

Sample: ST811-CC809
Lab FileID: T017745.D

Evaluate Continuing Calibration Report

```
Data File : C:\msdchem\1\DATA\st811\T017745.D            Vial: 2
Acq On    :  7 Apr 2015   9:02 pm                     Operator: mayrag
Sample    : cc809-5                                   Inst    : MSBNA06
Misc      : op55409,st811,250,,,1,1,water             Multiplr: 1.00
MS Integration Params: RTEINT.P

Method       : C:\msdchem\1\METHODS\SIM_LV.M (RTE Integrator)
Title        : PAH's by 8270 SIM
Last Update  : Wed Apr 08 09:06:52 2015
Response via : Multiple Level Calibration

Min. RRF     :   0.050  Min. Rel. Area :  50%  Max. R.T. Dev  0.50min
Max. RRF Dev :  20%     Max. Rel. Area : 200%
```

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1	I	Naphthalene-d8	1.000	1.000	0.0	87	0.00	6.37
2	S	Nitrobenzene-d5	0.462	0.495	-7.1	87	0.00	5.76
3	P	Naphthalene	1.237	1.346	-8.8	90	0.00	6.39
4	P	2-Methylnaphthalene	0.756	0.875	-15.7	91	0.00	7.00
5	P	1-Methylnaphthalene	0.714	0.805	-12.7	91	0.00	7.08
6	I	Acenaphthene-d10	1.000	1.000	0.0	87	0.00	7.90
7	S	2-Fluorobiphenyl	1.630	1.840	-12.9	91	0.00	7.32
8	P	Acenaphthylene	2.310	2.567	-11.1	89	0.00	7.78
9	P	Acenaphthene	1.411	1.565	-10.9	90	0.00	7.93
10	P	Fluorene	1.504	1.745	-16.0	88	0.00	8.39
11	I	Phenanthrene-d10	1.000	1.000	0.0	83	0.00	9.21
			Amount	Calc.	%Drift			
12	s	2,4,6-Tribromophenol	4000.000	3797.077	5.1	82	0.00	8.61
13	P	Pentachlorophenol	5000.000	4508.514	9.8	83	0.00	9.07
			AvgRF	CCRF	%Dev			
14	P	Phenanthrene	1.316	1.476	-12.2	87	0.00	9.23
15	P	Anthracene	1.399	1.558	-11.4	87	0.00	9.27
16	P	Fluoranthene	1.291	1.456	-12.8	88	0.00	10.28
17	I	Chrysene-d12	1.000	1.000	0.0	107	0.00	11.74
18	P	Pyrene	1.827	1.843	-0.9	100	0.00	10.47
19	S	Terphenyl-d14	0.962	1.001	-4.1	110	0.00	10.63
20	P	Benzo[a]anthracene	1.330	1.444	-8.6	110	0.00	11.73
21	P	Chrysene	1.292	1.402	-8.5	111	0.00	11.77
22	I	Perylene-d12	1.000	1.000	0.0	107	0.00	13.93
23	P	Benzo[b]fluoranthene	1.430	1.599	-11.8	112	0.00	13.30
24	P	Benzo[k]fluoranthene	1.533	1.697	-10.7	111	0.00	13.34
25	P	Benzo[a]pyrene	1.325	1.486	-12.2	110	0.00	13.83
26	P	Indeno[1,2,3-cd]pyrene	0.994	1.029	-3.5	107	0.00	15.88
27	P	Dibenz[a,h]anthracene	1.035	1.080	-4.3	106	0.00	15.95
28	P	Benzo[g,h,i]perylene	1.119	1.171	-4.6	110	0.00	16.38

(#) = Out of Range SPCC's out = 0 CCC's out = 0
T017702.D SIM_LV.M Wed Apr 08 13:45:56 2015

Initial Calibration Summary

Job Number: FA23258
Account: FPMRNYR FPM Remediations
Project: HM-AZ PBR Holloman AFB; Alamogordo, NM
Sample: ST813-ICC813
Lab FileID: T017845.D

Response Factor Report MSBNA06

Method : C:\msdchem\1\METHODS\SIM_LV.M (RTE Integrator)
Title : PAH's by 8270 SIM
Last Update : Mon Apr 13 09:48:51 2015
Response via : Initial Calibration

Calibration Files
L1 =T017842.D L2 =T017843.D L3 =T017844.D L4 =T017845.D
L5 =T017846.D L6 =T017847.D L7 =T017848.D

Compound	L1	L2	L3	L4	L5	L6	L7	Avg	%RSD
1) I Naphthalene-d8				ISTD					
2)S Nitrobenzene-d5	0.444	0.479	0.480	0.488	0.514	0.509	0.488	0.486	4.72
3)P Naphthalene	1.288	1.363	1.354	1.348	1.408	1.393	1.266	1.346	3.85
4)P 2-Methylnaphthale	0.827	0.882	0.891	0.895	0.930	0.897	0.800	0.874	5.16
5)P 1-Methylnaphthale	0.756	0.805	0.807	0.801	0.835	0.807	0.715	0.789	5.11
6) I Acenaphthene-d10				ISTD					
7)S 2-Fluorobiphenyl	1.678	1.801	1.760	1.783	1.825	1.733	1.564	1.735	5.15
8)P Acenaphthylene	2.156	2.401	2.429	2.536	2.633	2.519	2.238	2.416	7.01
9)P Acenaphthene	1.477	1.592	1.549	1.566	1.610	1.488	1.315	1.514	6.66
10)P Fluorene	1.583	1.723	1.689	1.729	1.758	1.672	1.478	1.662	5.93
11) I Phenanthrene-d10				ISTD					
12)s 2,4,6-Tribromophe	0.131	0.188	0.102	0.110	0.122	0.134	0.127	0.131	21.29
13)P Pentachlorophenol	0.017	0.025	0.019	0.030	0.040	0.059	0.067	0.037#	53.63
14)P Phenanthrene	1.373	1.456	1.462	1.460	1.483	1.399	1.235	1.410	6.13
15)P Anthracene	1.291	1.411	1.443	1.440	1.526	1.494	1.368	1.425	5.50
16)P Fluoranthene	1.261	1.430	1.452	1.439	1.520	1.446	1.270	1.403	7.01
17) I Chrysene-d12				ISTD					
18)P Pyrene	1.838	2.040	2.077	1.996	2.107	2.080	1.831	1.996	5.78
19)S Terphenyl-d14	0.991	1.066	1.088	1.039	1.084	1.088	0.998	1.050	3.97
20)P Benzo[a]anthracen	1.470	1.467	1.464	1.491	1.576	1.592	1.497	1.508	3.55
21)P Chrysene	1.440	1.529	1.501	1.482	1.537	1.562	1.428	1.497	3.35
22) I Perylene-d12				ISTD					
23)P Benzo[b]fluoranth	1.384	1.628	1.600	1.678	1.632	1.691	1.531	1.592	6.65
24)P Benzo[k]fluoranth	1.395	1.710	1.692	1.747	1.720	1.707	1.531	1.643	7.92
25)P Benzo[a]pyrene	1.247	1.347	1.390	1.459	1.552	1.599	1.469	1.437	8.41
26)P Indeno[1,2,3-cd]p	0.910	0.920	0.945	1.099	1.093	1.158	1.151	1.040	10.61
27)P Dibenz[a,h]anthra	0.887	0.914	0.969	1.142	1.122	1.155	1.202	1.056	12.17
28)P Benzo[g,h,i]peryl	1.136	1.241	1.207	1.341	1.247	1.309	1.250	1.247	5.35

(#) = Out of Range

SIM_LV.M Mon Apr 13 16:18:49 2015

Initial Calibration Verification

Job Number: FA23258
Account: FPMRNYR FPM Remediations
Project: HM-AZ PBR Holloman AFB; Alamogordo, NM

Sample: ST813-ICV813
Lab FileID: T017849.D

Evaluate Continuing Calibration Report

```
Data File : C:\msdchem\1\DATA\st813\T017849.D            Vial: 9
Acq On    : 10 Apr 2015   5:34 pm                    Operator: mayrag
Sample    : icv813-4                                 Inst    : MSBNA06
Misc      : op55409,st813,250,,,1,1,water            Multiplr: 1.00
MS Integration Params: RTEINT.P

Method       : C:\msdchem\1\METHODS\SIM_LV.M (RTE Integrator)
Title        : PAH's by 8270 SIM
Last Update  : Mon Apr 13 09:48:51 2015
Response via : Multiple Level Calibration

Min. RRF     :   0.050  Min. Rel. Area :  50%  Max. R.T. Dev  0.50min
Max. RRF Dev :  20%     Max. Rel. Area : 200%
```

		Compound	Amount	Calc.	%Drift	Area%	Dev(min)	R.T.
1	I	Naphthalene-d8	500.000	500.000	0.0	94	0.00	6.30
2	S	Nitrobenzene-d5		----------NA----------				
3	P	Naphthalene	1000.000	901.209	9.9	84	0.00	6.31
4	P	2-Methylnaphthalene	1000.000	868.158	13.2	80	0.00	6.92
5	P	1-Methylnaphthalene	1000.000	938.583	6.1	87	0.00	7.01
6	I	Acenaphthene-d10	500.000	500.000	0.0	97	0.00	7.83
7	S	2-Fluorobiphenyl		----------NA----------				
8	P	Acenaphthylene	1000.000	918.284	8.2	85	0.00	7.70
9	P	Acenaphthene	1000.000	937.855	6.2	88	0.00	7.86
10	P	Fluorene	1000.000	938.415	6.2	88	0.00	8.31
11	I	Phenanthrene-d10	500.000	500.000	0.0	96	0.00	9.14
12	s	2,4,6-Tribromophenol		----------NA----------				
13	P	Pentachlorophenol	2500.000	3739.768	-49.6#	173	0.00	8.99
14	P	Phenanthrene	1000.000	929.760	7.0	86	0.00	9.15
15	P	Anthracene	500.000	434.578	13.1	82	0.00	9.20
16	P	Fluoranthene	1000.000	929.221	7.1	87	0.00	10.20
17	I	Chrysene-d12	500.000	500.000	0.0	95	0.00	11.63
18	P	Pyrene	1000.000	886.071	11.4	84	0.00	10.40
19	S	Terphenyl-d14		----------NA----------				
20	P	Benzo[a]anthracene	500.000	439.216	12.2	85	0.00	11.62
21	P	Chrysene	500.000	463.089	7.4	89	0.00	11.66
22	I	Perylene-d12	500.000	500.000	0.0	102	0.00	13.78
23	P	Benzo[b]fluoranthene	500.000	432.543	13.5	84	0.00	13.15
24	P	Benzo[k]fluoranthene	500.000	443.391	11.3	85	0.00	13.20
25	P	Benzo[a]pyrene	500.000	439.893	12.0	88	0.00	13.68
26	P	Indeno[1,2,3-cd]pyrene	500.000	439.723	12.1	85	0.00	15.69
27	P	Dibenz[a,h]anthracene	500.000	436.449	12.7	82	0.00	15.75
28	P	Benzo[g,h,i]perylene	500.000	432.895	13.4	82	0.00	16.17

(#) = Out of Range SPCC's out = 0 CCC's out = 0
T017845.D SIM_LV.M Mon Apr 13 10:09:44 2015

Continuing Calibration Summary

Job Number: FA23258
Account: FPMRNYR FPM Remediations
Project: HM-AZ PBR Holloman AFB; Alamogordo, NM

Sample: ST813-ECC813
Lab FileID: T017895.D

Evaluate Continuing Calibration Report

```
Data File : C:\msdchem\1\DATA\st813\T017895.D            Vial: 2
Acq On    : 11 Apr 2015   4:11 pm                    Operator: mayrag
Sample    : ecc813-5                                 Inst    : MSBNA06
Misc      : op55409,st813,250,,,1,1,water            Multiplr: 1.00
MS Integration Params: RTEINT.P

Method       : C:\msdchem\1\METHODS\SIM_LV.M (RTE Integrator)
Title        : PAH's by 8270 SIM
Last Update  : Mon Apr 13 09:48:51 2015
Response via : Multiple Level Calibration

Min. RRF     :   0.050  Min. Rel. Area :  50%  Max. R.T. Dev  0.50min
Max. RRF Dev :  20%     Max. Rel. Area : 200%
```

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1	I	Naphthalene-d8	1.000	1.000	0.0	101	0.00	6.30
2	S	Nitrobenzene-d5	0.486	0.505	-3.9	99	0.00	5.69
3	P	Naphthalene	1.346	1.392	-3.4	100	0.00	6.32
4	P	2-Methylnaphthalene	0.874	0.923	-5.6	100	0.00	6.93
5	P	1-Methylnaphthalene	0.789	0.832	-5.4	101	0.00	7.01
6	I	Acenaphthene-d10	1.000	1.000	0.0	105	0.00	7.84
7	S	2-Fluorobiphenyl	1.735	1.717	1.0	99	0.00	7.26
8	P	Acenaphthylene	2.416	2.563	-6.1	102	0.00	7.71
9	P	Acenaphthene	1.514	1.526	-0.8	100	0.00	7.86
10	P	Fluorene	1.662	1.688	-1.6	101	0.00	8.32
11	I	Phenanthrene-d10	1.000	1.000	0.0	103	0.00	9.14
12	s	2,4,6-Tribromophenol	0.131	0.122	6.9	103	0.00	8.53
13	P	Pentachlorophenol	0.037	0.039#	-5.4	100	0.00	8.99
14	P	Phenanthrene	1.410	1.362	3.4	95	0.00	9.16
15	P	Anthracene	1.425	1.480	-3.9	100	0.00	9.20
16	P	Fluoranthene	1.403	1.458	-3.9	99	0.00	10.21
17	I	Chrysene-d12	1.000	1.000	0.0	100	0.00	11.64
18	P	Pyrene	1.996	2.078	-4.1	99	0.00	10.40
19	S	Terphenyl-d14	1.050	1.082	-3.0	100	0.00	10.55
20	P	Benzo[a]anthracene	1.508	1.557	-3.2	99	0.00	11.63
21	P	Chrysene	1.497	1.495	0.1	97	0.00	11.67
22	I	Perylene-d12	1.000	1.000	0.0	98	0.00	13.78
23	P	Benzo[b]fluoranthene	1.592	1.659	-4.2	100	0.00	13.16
24	P	Benzo[k]fluoranthene	1.643	1.720	-4.7	98	0.00	13.21
25	P	Benzo[a]pyrene	1.437	1.528	-6.3	96	0.00	13.69
26	P	Indeno[1,2,3-cd]pyrene	1.040	1.136	-9.2	102	0.01	15.70
27	P	Dibenz[a,h]anthracene	1.056	1.185	-12.2	103	0.02	15.77
28	P	Benzo[g,h,i]perylene	1.247	1.243	0.3	98	0.02	16.19

(#) = Out of Range SPCC's out = 1 CCC's out = 0
T017846.D SIM_LV.M Mon Apr 13 10:10:30 2015

Initial Calibration Summary

Job Number: FA23258
Account: FPMRNYR FPM Remediations
Project: HM-AZ PBR Holloman AFB; Alamogordo, NM
Sample: SX1826-ICC1826
Lab FileID: X039252.D

Response Factor Report MSBNA05

Method : C:\msdchem\1\METHODS\8270d_0330.m (RTE Integrator)
Title : SW846 8270D OR EPA 625
Last Update : Tue Mar 31 09:29:41 2015
Response via : Initial Calibration

Calibration Files
5 =x039249.D 10 =x039250.D 25 =x039251.D 50 =x039252.D
60 =x039253.D 75 =x039254.D 100 =x039255.D

Compound	5	10	25	50	60	75	100	Avg	%RSD
1) I 1,4-Dichlorobenzene-d	----------ISTD----------								
2) 1,4-Dioxane	0.636	0.604	0.608	0.639		0.652	0.626	0.628	3.01
3) N-nitrosodimethyl	0.939	0.842	0.956	0.956		0.920	0.865	0.913	5.30
4) Pyridine	1.678	1.598	1.661	1.732		1.698	1.642	1.668	2.76
5)S 2-Fluorophenol	1.481	1.461	1.456	1.465		1.420	1.310	1.432	4.41
6)P Benzaldehyde	1.303	1.306	1.238	1.193		0.915	0.704	1.110	22.14
---- Quadratic regr., Force(0,0) ---- Coefficient = 0.9964									
Response Ratio = 0.00000 + 1.55674 *A + -0.33958 *A^2									
7) Aniline	2.253	2.191	2.127	2.144		2.046	1.942	2.117	5.20
8)P bis(2-Chloroethyl	1.420	1.392	1.378	1.381		1.368	1.308	1.375	2.72
9)S Phenol-d5	1.594	1.493	1.478	1.477		1.395	1.303	1.457	6.74
10)P Phenol	2.041	1.971	1.914	1.923		1.849	1.739	1.906	5.45
11)P 2-Chlorophenol	1.558	1.550	1.535	1.550		1.540	1.472	1.534	2.05
12) 1,3-Dichlorobenze	1.703	1.632	1.638	1.648		1.589	1.569	1.630	2.91
13) 1,4-Dichlorobenze	1.695	1.655	1.640	1.659		1.600	1.533	1.630	3.48
14) 1,2-Dichlorobenze	1.600	1.571	1.569	1.585		1.545	1.453	1.554	3.39
15) Benzyl alcohol	0.971	1.016	0.979	0.986		0.984	0.971	0.984	1.68
16)P 2-Methylphenol	1.380	1.376	1.333	1.376		1.324	1.227	1.336	4.39
17)P bis(2-chloroisopr	2.948	2.730	2.637	2.468		2.168	1.770	2.454	17.33
---- Quadratic regr., Force(0,0) ---- Coefficient = 0.9988									
Response Ratio = 0.00000 + 3.10878 *A + -0.52736 *A^2									
18)P Acetophenone	2.195	2.095	1.994	2.032		1.960	1.842	2.020	5.95
19)P N-Nitroso-di-n-pr	0.787	0.718	0.818	0.853		0.821	0.745	0.790	6.42
20)P 3&4-Methylphenol	1.462	1.418	1.406	1.432		1.373	1.319	1.402	3.59
21)P Hexachloroethane	0.677	0.669	0.669	0.681		0.669	0.641	0.668	2.12
22) I Naphthalene-d8	----------ISTD----------								
23)S Nitrobenzene-d5	0.452	0.440	0.421	0.420		0.411	0.398	0.424	4.66
24)P Nitrobenzene	0.443	0.423	0.396	0.397		0.382	0.366	0.401	6.95
25)P Isophorone	0.799	0.787	0.722	0.726		0.698	0.673	0.734	6.74
26)P 2-Nitrophenol	0.203	0.216	0.204	0.209		0.206	0.209	0.208	2.31
27)P 2,4-Dimethylpheno	0.414	0.408	0.371	0.371		0.364	0.351	0.380	6.66
28)P bis(2-Chloroethox	0.454	0.446	0.414	0.412		0.397	0.377	0.417	6.98
29) Benzoic Acid	0.236	0.276	0.290	0.315		0.306	0.310	0.289	10.22
30)P 2,4-Dichloropheno	0.320	0.327	0.300	0.302		0.295	0.296	0.307	4.46
31) 1,2,4-Trichlorobe	0.325	0.328	0.302	0.310		0.303	0.306	0.312	3.59
32)P Naphthalene	1.184	1.148	1.052	1.031		0.934	0.838	1.031	12.57
33)P 4-Chloroaniline	0.512	0.507	0.468	0.476		0.461	0.434	0.476	6.16
34) 2,6-Dichloropheno	0.320	0.327	0.300	0.302		0.295	0.296	0.307	4.46
35)P Hexachlorobutadie	0.179	0.177	0.169	0.172		0.176	0.174	0.175	2.09
36)P Caprolactam	0.128	0.129	0.120	0.127		0.121	0.121	0.124	3.37
37)P 4-Chloro-3-methyl	0.345	0.346	0.331	0.337		0.320	0.314	0.332	3.98
38)P 2-Methylnaphthale	0.816	0.808	0.724	0.721		0.687	0.636	0.732	9.50
39) 1-Methylnaphthale	0.708	0.696	0.643	0.642		0.625	0.587	0.650	6.92

Initial Calibration Summary

Job Number: FA23258 **Sample:** SX1826-ICC1826
Account: FPMRNYR FPM Remediations **Lab FileID:** X039252.D
Project: HM-AZ PBR Holloman AFB; Alamogordo, NM

```
40)P 1,2,4,5-Tetrachlo 0.314 0.324 0.288 0.307       0.301 0.297 0.305   4.22

41) I   Acenaphthene-d10      ----------------ISTD---------------------
42)P Hexachlorocyclope 0.312 0.334 0.352 0.379       0.375 0.398 0.358   8.87
43)P 2,4,6-Trichloroph 0.379 0.385 0.366 0.384       0.372 0.386 0.379   2.11
44)P 2,4,5-Trichloroph 0.405 0.409 0.399 0.403       0.392 0.412 0.403   1.86
45)S 2-Fluorobiphenyl  1.489 1.435 1.360 1.371       1.268 1.212 1.356   7.58
46)P 1,1'-Biphenyl     1.769 1.650 1.569 1.527       1.374 1.255 1.524  12.21
47)P 2-Chloronaphthale 1.320 1.232 1.164 1.182       1.093 1.073 1.178   7.74
48)P 2-Nitroaniline    0.441 0.442 0.440 0.466       0.435 0.423 0.441   3.17
49)  p-Dinitrobenzene  0.242 0.256 0.269 0.285       0.272 0.274 0.266   5.67
50)P Dimethylphthalate 1.417 1.391 1.333 1.344       1.274 1.196 1.326   6.08
51)  m-Dinitrobenzene  0.210 0.223 0.219 0.229       0.229 0.236 0.224   4.09
52)P 2,6-Dinitrotoluen 0.312 0.320 0.307 0.312       0.308 0.306 0.311   1.65
53)  o-Dinitrobenzene  0.294 0.278 0.282 0.288       0.263 0.253 0.276   5.59
54)P Acenaphthylene    2.084 1.991 1.920 1.856       1.713 1.560 1.854  10.31
55)P 3-Nitroaniline    0.431 0.444 0.444 0.461       0.446 0.445 0.445   2.10
56)P Acenaphthene      1.282 1.251 1.215 1.214       1.120 1.078 1.193   6.58
57)P 2,4-Dinitrophenol 0.072 0.109 0.149 0.187       0.195 0.204 0.153  34.80
            ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9984
              Response Ratio = 0.00000 + 0.15147 *A + 0.02178 *A^2

58)P 4-Nitrophenol     0.148 0.158 0.191 0.215       0.208 0.219 0.190  15.94
            ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9986
              Response Ratio = 0.00000 + 0.19062 *A + 0.01118 *A^2

59)P Dibenzofuran      1.812 1.787 1.711 1.685       1.540 1.456 1.665   8.43
60)P 2,4-Dinitrotoluen 0.417 0.419 0.419 0.439       0.419 0.427 0.423   2.03
61)P 2,3,5,6-Tetrachlo 0.296 0.311 0.301 0.330       0.330 0.339 0.318   5.51
62)P 2,3,4,6-Tetrachlo 0.306 0.300 0.300 0.322       0.318 0.321 0.311   3.32
63)P Diethylphthalate  1.438 1.421 1.388 1.396       1.326 1.246 1.369   5.22
64)P Fluorene          1.514 1.441 1.357 1.377       1.292 1.201 1.364   8.07
65)P 4-Chlorophenyl-ph 0.640 0.616 0.604 0.634       0.598 0.607 0.617   2.76
66)P 4-Nitroaniline    0.288 0.281 0.340 0.367       0.354 0.360 0.332  11.34

67) I   Phenanthrene-d10      ----------------ISTD---------------------
68)P 4,6-Dinitro-2-met 0.103 0.121 0.143 0.155       0.162 0.169 0.142  17.85
            ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9998
              Response Ratio = 0.00000 + 0.13721 *A + 0.01277 *A^2

69)P Diphenylamine     0.782 0.774 0.745 0.745       0.720 0.688 0.742   4.71
70)P n-Nitrosodiphenyl 0.652 0.645 0.621 0.621       0.600 0.573 0.619   4.71
71)  1,2-Diphenylhydra 1.012 0.957 0.943 0.902       0.840 0.780 0.906   9.31
72)S 2,4,6-Tribromophe 0.077 0.086 0.084 0.089       0.097 0.106 0.090  11.52
73)P 4-Bromophenyl-phe 0.206 0.212 0.200 0.206       0.212 0.218 0.209   2.94
74)P Hexachlorobenzene 0.191 0.198 0.187 0.200       0.208 0.220 0.201   5.97
75)  Simazine          0.125 0.127 0.125 0.127       0.127 0.132 0.127   1.99
76)P Atrazine          0.258 0.250 0.234 0.248       0.236 0.263 0.248   4.60
77)P Pentachlorophenol 0.103 0.121 0.125 0.137       0.141 0.149 0.130  12.81
78)P Phenanthrene      1.300 1.253 1.202 1.175       1.097 1.024 1.175   8.62
79)P Anthracene        1.267 1.268 1.199 1.195       1.094 1.010 1.172   8.69
80)P Carbazole         1.138 1.165 1.150 1.147       1.054 0.997 1.108   6.10
81)P Di-n-butylphthala 1.520 1.528 1.461 1.380       1.264 1.123 1.379  11.59
82)P Fluoranthene      1.290 1.299 1.232 1.225       1.172 1.071 1.215   6.94

83) I   Chrysene-d12          ----------------ISTD---------------------
84)  Benzidine         0.620 0.556 0.637 0.655       0.577 0.476 0.587  11.21
85)P Pyrene            1.683 1.591 1.475 1.427       1.386 1.309 1.479   9.29
86)S Terphenyl-d14     0.934 0.925 0.877 0.907       0.932 0.909 0.914   2.34
87)P Butylbenzylphthal 0.772 0.732 0.701 0.696       0.682 0.655 0.706   5.76
```

Initial Calibration Summary

Job Number: FA23258 **Sample:** SX1826-ICC1826
Account: FPMRNYR FPM Remediations **Lab FileID:** X039252.D
Project: HM-AZ PBR Holloman AFB; Alamogordo, NM

```
88)P 3,3'-Dichlorobenz 0.262 0.275 0.324 0.349       0.362 0.343 0.319  12.94
89)P Benzo[a]anthracen 1.159 1.125 1.136 1.179       1.166 1.159 1.154   1.72
90)P Chrysene          1.127 1.107 1.058 1.103       1.108 1.067 1.095   2.44
91)P bis(2-Ethylhexyl) 1.003 0.969 0.917 0.927       0.917 0.879 0.935   4.72

92) I   Perylene-d12          ----------------ISTD---------------------
93)P Di-n-octylphthala 1.991 2.050 2.084 2.110       2.065 1.991 2.049   2.37
94)P Benzo[b]fluoranth 1.204 1.240 1.268 1.330       1.321 1.328 1.282   4.13
95)P Benzo[k]fluoranth 1.319 1.271 1.313 1.370       1.335 1.282 1.315   2.72
96)P Benzo[a]pyrene    0.996 1.043 1.137 1.240       1.246 1.240 1.150   9.58
97)P Indeno[1,2,3-cd]p 0.538 0.576 0.694 0.795       0.855 0.859 0.719  19.42
            ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9987
              Response Ratio = 0.00000 + 0.70934 *A + 0.06393 *A^2

98)P Dibenz[a,h]anthra 0.446 0.512 0.625 0.744       0.815 0.832 0.662  24.30
            ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9987
              Response Ratio = 0.00000 + 0.63053 *A + 0.08480 *A^2

99)P Benzo[g,h,i]peryl 0.718 0.726 0.851 0.921       0.973 0.938 0.855  12.88
-------------------------------------------------------------------------------
(#) = Out of Range

          8270d_0330.m        Tue Mar 31 11:05:13 2015
```

Initial Calibration Verification

Job Number: FA23258
Account: FPMRNYR FPM Remediations
Project: HM-AZ PBR Holloman AFB; Alamogordo, NM

Sample: SX1826-ICV1826
Lab FileID: X039256.D

Evaluate Continuing Calibration Report

```
Data File : C:\msdchem\1\DATA\sx1826\x039256.D          Vial: 11
Acq On    : 30 Mar 2015   5:57 pm                   Operator: nareshj
Sample    : icv1826-50                              Inst    : MSBNA05
Misc      : op55392,sx1826,1000,,,1,1,water         Multiplr: 1.00
MS Integration Params: lscint.p

Method       : C:\msdchem\1\METHODS\8270d_0330.m (RTE Integrator)
Title        : SW846 8270D OR EPA 625
Last Update  : Tue Mar 31 09:29:41 2015
Response via : Multiple Level Calibration

Min. RRF     :   0.000  Min. Rel. Area :  50%  Max. R.T. Dev  0.50min
Max. RRF Dev :  20%     Max. Rel. Area : 200%
```

		Compound	Amount	Calc.	%Drift	Area%	Dev(min)	R.T.
1	I	1,4-Dichlorobenzene-d4	40.000	40.000	0.0	116	0.00	5.05
2		1,4-Dioxane	50.000	61.186	-22.4#	140	0.04	2.48
3		N-nitrosodimethylamine	50.000	48.674	2.7	108	0.03	2.82
4		Pyridine		----------NA----------				
5	S	2-Fluorophenol		----------NA----------				
		----------	Amount	Calc.	%Drift	----------		
6	P	Benzaldehyde		----------NA----------				
		----------	Amount	Calc.	%Drift	----------		
7		Aniline		----------NA----------				
8	P	bis(2-Chloroethyl)ether	50.000	47.586	4.8	110	0.00	4.86
9	S	Phenol-d5		----------NA----------				
10	P	Phenol	50.000	45.883	8.2	106	0.00	4.82
11	P	2-Chlorophenol	50.000	49.007	2.0	113	0.00	4.91
12		1,3-Dichlorobenzene	50.000	47.331	5.3	109	0.00	5.02
13		1,4-Dichlorobenzene	50.000	48.305	3.4	110	0.00	5.06
14		1,2-Dichlorobenzene	50.000	47.857	4.3	109	0.00	5.22
15		Benzyl alcohol		----------NA----------				
16	P	2-Methylphenol	50.000	46.613	6.8	105	0.00	5.31
		----------	Amount	Calc.	%Drift	----------		
17	P	bis(2-chloroisopropyl)eth	50.000	44.989	10.0	106	0.00	5.32
		----------	Amount	Calc.	%Drift	----------		
18	P	Acetophenone	50.000	52.305	-4.6	121	0.00	5.41
19	P	N-Nitroso-di-n-propylamin	50.000	47.475	5.0	102	0.00	5.44
20	P	3&4-Methylphenol	100.000	92.394	7.6	99	0.00	5.44
21	P	Hexachloroethane	50.000	47.964	4.1	109	0.00	5.48
22	I	Naphthalene-d8	40.000	40.000	0.0	109	0.00	6.14
23	S	Nitrobenzene-d5		----------NA----------				
24	P	Nitrobenzene	50.000	48.919	2.2	108	0.00	5.56
25	P	Isophorone	50.000	45.558	8.9	101	0.00	5.76
26	P	2-Nitrophenol	50.000	53.451	-6.9	116	0.00	5.83
27	P	2,4-Dimethylphenol	50.000	51.223	-2.4	115	0.00	5.88
28	P	bis(2-Chloroethoxy)methan	50.000	48.143	3.7	106	0.00	5.96
29		Benzoic Acid	100.000	107.374	-7.4	96	0.00	6.05
30	P	2,4-Dichlorophenol	50.000	48.653	2.7	108	0.00	6.04
31		1,2,4-Trichlorobenzene	50.000	47.203	5.6	104	0.00	6.11
32	P	Naphthalene	50.000	50.016	-0.0	109	0.00	6.16
33	P	4-Chloroaniline		----------NA----------				

Initial Calibration Verification

Job Number: FA23258 **Sample:** SX1826-ICV1826
Account: FPMRNYR FPM Remediations **Lab FileID:** X039256.D
Project: HM-AZ PBR Holloman AFB; Alamogordo, NM

34		2,6-Dichlorophenol	50.000	48.653	2.7	108	0.00	6.04
35	P	Hexachlorobutadiene	50.000	53.614	-7.2	119	0.00	6.32
36	P	Caprolactam	50.000	45.162	9.7	97	-0.03	6.54
37	P	4-Chloro-3-methylphenol	50.000	48.245	3.5	104	0.00	6.66
38	P	2-Methylnaphthalene		----------NA----------				
39		1-Methylnaphthalene	50.000	59.224	-18.4	131	0.00	6.85
40	P	1,2,4,5-Tetrachlorobenzen	50.000	47.003	6.0	102	0.00	6.94
41	I	Acenaphthene-d10	40.000	40.000	0.0	109	0.00	7.69
42	P	Hexachlorocyclopentadiene	50.000	44.924	10.2	93	0.00	6.96
43	P	2,4,6-Trichlorophenol	50.000	51.095	-2.2	110	0.00	7.04
44	P	2,4,5-Trichlorophenol	50.000	49.833	0.3	109	0.00	7.07
45	S	2-Fluorobiphenyl		----------NA----------				
46	P	1,1'-Biphenyl	50.000	47.367	5.3	103	0.00	7.18
47	P	2-Chloronaphthalene	50.000	47.589	4.8	104	0.00	7.18
48	P	2-Nitroaniline		----------NA----------				
49		p-Dinitrobenzene		----------NA----------				
50	P	Dimethylphthalate	50.000	48.617	2.8	105	-0.01	7.49
51		m-Dinitrobenzene		----------NA----------				
52	P	2,6-Dinitrotoluene	50.000	46.020	8.0	100	0.00	7.55
53		o-Dinitrobenzene		----------NA----------				
54	P	Acenaphthylene	50.000	50.628	-1.3	110	0.00	7.55
55	P	3-Nitroaniline		----------NA----------				
56	P	Acenaphthene	50.000	49.478	1.0	106	0.00	7.72
		----------	Amount	Calc.	%Drift		----------	
57	P	2,4-Dinitrophenol	100.000	104.025	-4.0	102	-0.01	7.76
58	P	4-Nitrophenol	100.000	91.095	8.9	86	0.00	7.84
		----------	Amount	Calc.	%Drift		----------	
59	P	Dibenzofuran		----------NA----------				
60	P	2,4-Dinitrotoluene	50.000	47.620	4.8	100	-0.01	7.89
61	P	2,3,5,6-Tetrachlorophenol		----------NA----------				
62	P	2,3,4,6-Tetrachlorophenol	50.000	46.382	7.2	98	0.00	8.01
63	P	Diethylphthalate	50.000	46.521	7.0	100	0.00	8.12
64	P	Fluorene	50.000	49.365	1.3	107	0.00	8.16
65	P	4-Chlorophenyl-phenylethe	50.000	47.816	4.4	101	0.00	8.16
66	P	4-Nitroaniline		----------NA----------				
67	I	Phenanthrene-d10	40.000	40.000	0.0	106	0.00	8.98
		----------	Amount	Calc.	%Drift		----------	
68	P	4,6-Dinitro-2-methylpheno	100.000	93.227	6.8	88	-0.01	8.25
		----------	Amount	Calc.	%Drift		----------	
69	P	Diphenylamine	50.000	40.705	18.6	86	0.00	8.27
70	P	n-Nitrosodiphenylamine	50.000	48.846	2.3	86	0.00	8.27
71		1,2-Diphenylhydrazine	50.000	46.404	7.2	99	0.00	8.30
72	S	2,4,6-Tribromophenol		----------NA----------				
73	P	4-Bromophenyl-phenylether	50.000	42.889	14.2	92	0.00	8.58
74	P	Hexachlorobenzene	50.000	39.961	20.1#	85	0.00	8.71
75		Simazine		----------NA----------				
76	P	Atrazine	50.000	42.541	14.9	90	-0.01	8.77
77	P	Pentachlorophenol	100.000	124.482	-24.5#	103	0.00	8.88
78	P	Phenanthrene	50.000	48.856	2.3	104	0.00	9.00
79	P	Anthracene	50.000	50.092	-0.2	104	0.00	9.04
80	P	Carbazole		----------NA----------				
81	P	Di-n-butylphthalate	50.000	47.018	6.0	100	0.00	9.54
82	P	Fluoranthene	50.000	48.655	2.7	102	0.00	10.05

Initial Calibration Verification

Job Number: FA23258 **Sample:** SX1826-ICV1826
Account: FPMRNYR FPM Remediations **Lab FileID:** X039256.D
Project: HM-AZ PBR Holloman AFB; Alamogordo, NM

83	I	Chrysene-d12	40.000	40.000	0.0	98	0.00	11.62
84		Benzidine		----------NA----------				
85	P	Pyrene	50.000	49.717	0.6	101	0.00	10.25
86	S	Terphenyl-d14		----------NA----------				
87	P	Butylbenzylphthalate	50.000	49.767	0.5	99	0.00	10.98
88	P	3,3'-Dichlorobenzidine		----------NA----------				
89	P	Benzo[a]anthracene	50.000	49.415	1.2	95	0.00	11.60
90	P	Chrysene	50.000	49.962	0.1	97	-0.01	11.66
91	P	bis(2-Ethylhexyl)phthalat	50.000	48.836	2.3	97	0.00	11.78
92	I	Perylene-d12	40.000	40.000	0.0	101	0.00	13.96
93	P	Di-n-octylphthalate	50.000	49.198	1.6	97	0.00	12.77
94	P	Benzo[b]fluoranthene	50.000	51.241	-2.5	100	-0.02	13.28
95	P	Benzo[k]fluoranthene	50.000	49.914	0.2	97	-0.02	13.33
96	P	Benzo[a]pyrene	50.000	50.947	-1.9	96	-0.02	13.85
		----------	Amount	Calc.	%Drift		----------	
97	P	Indeno[1,2,3-cd]pyrene	50.000	48.150	3.7	97	-0.02	16.02
98	P	Dibenz[a,h]anthracene	50.000	50.531	-1.1	102	-0.03	16.10
		----------	Amount	Calc.	%Drift		----------	
99	P	Benzo[g,h,i]perylene	50.000	54.739	-9.5	103	-0.02	16.48

(#) = Out of Range SPCC's out = 0 CCC's out = 0
x039252.D 8270d_0330.m Tue Mar 31 09:40:04 2015

6.7.17

6

Initial Calibration Verification

Job Number: FA23258
Account: FPMRNYR FPM Remediations
Project: HM-AZ PBR Holloman AFB; Alamogordo, NM

Sample: SX1826-ICV1826
Lab FileID: X039257.D

Evaluate Continuing Calibration Report

```
Data File : C:\msdchem\1\DATA\sx1826\x039257.D          Vial: 12
Acq On    : 30 Mar 2015   6:22 pm                   Operator: nareshj
Sample    : icv1826-50                              Inst    : MSBNA05
Misc      : op55392,sx1826,1000,,,1,1,water         Multiplr: 1.00
MS Integration Params: lscint.p

Method       : C:\msdchem\1\METHODS\8270d_0330.m (RTE Integrator)
Title        : SW846 8270D OR EPA 625
Last Update  : Tue Mar 31 09:29:41 2015
Response via : Multiple Level Calibration

Min. RRF     :   0.000  Min. Rel. Area :  50%  Max. R.T. Dev  0.50min
Max. RRF Dev :  20%     Max. Rel. Area : 200%
```

		Compound	Amount	Calc.	%Drift	Area%	Dev(min)	R.T.
1	I	1,4-Dichlorobenzene-d4	40.000	40.000	0.0	119	0.00	5.04
2		1,4-Dioxane		NA				
3		N-nitrosodimethylamine		NA				
4		Pyridine	50.000	44.326	11.3	102	0.00	2.77
5	S	2-Fluorophenol		NA				
		Amount	Calc.	%Drift				
6	P	Benzaldehyde	50.000	45.562	8.9	106	0.00	4.68
		Amount	Calc.	%Drift				
7		Aniline	50.000	46.714	6.6	110	0.00	4.80
8	P	bis(2-Chloroethyl)ether		NA				
9	S	Phenol-d5		NA				
10	P	Phenol		NA				
11	P	2-Chlorophenol		NA				
12		1,3-Dichlorobenzene		NA				
13		1,4-Dichlorobenzene		NA				
14		1,2-Dichlorobenzene		NA				
15		Benzyl alcohol	50.000	45.432	9.1	108	-0.01	5.19
16	P	2-Methylphenol		NA				
		Amount	Calc.	%Drift				
17	P	bis(2-chloroisopropyl)eth		NA				
		Amount	Calc.	%Drift				
18	P	Acetophenone		NA				
19	P	N-Nitroso-di-n-propylamin		NA				
20	P	3&4-Methylphenol		NA				
21	P	Hexachloroethane		NA				
22	I	Naphthalene-d8	40.000	40.000	0.0	115	0.00	6.14
23	S	Nitrobenzene-d5		NA				
24	P	Nitrobenzene		NA				
25	P	Isophorone		NA				
26	P	2-Nitrophenol		NA				
27	P	2,4-Dimethylphenol		NA				
28	P	bis(2-Chloroethoxy)methan		NA				
29		Benzoic Acid		NA				
30	P	2,4-Dichlorophenol		NA				
31		1,2,4-Trichlorobenzene		NA				
32	P	Naphthalene		NA				
33	P	4-Chloroaniline	50.000	47.568	4.9	109	-0.01	6.23

Initial Calibration Verification

Job Number: FA23258 **Sample:** SX1826-ICV1826
Account: FPMRNYR FPM Remediations **Lab FileID:** X039257.D
Project: HM-AZ PBR Holloman AFB; Alamogordo, NM

34		2,6-Dichlorophenol		----------NA----------				
35	P	Hexachlorobutadiene		----------NA----------				
36	P	Caprolactam		----------NA----------				
37	P	4-Chloro-3-methylphenol		----------NA----------				
38	P	2-Methylnaphthalene	50.000	46.016	8.0	107	0.00	6.76
39		1-Methylnaphthalene		----------NA----------				
40	P	1,2,4,5-Tetrachlorobenzen		----------NA----------				
41	I	Acenaphthene-d10	40.000	40.000	0.0	115	0.00	7.69
42	P	Hexachlorocyclopentadiene		----------NA----------				
43	P	2,4,6-Trichlorophenol		----------NA----------				
44	P	2,4,5-Trichlorophenol		----------NA----------				
45	S	2-Fluorobiphenyl		----------NA----------				
46	P	1,1'-Biphenyl		----------NA----------				
47	P	2-Chloronaphthalene		----------NA----------				
48	P	2-Nitroaniline	50.000	46.427	7.1	101	0.00	7.30
49		p-Dinitrobenzene		----------NA----------				
50	P	Dimethylphthalate		----------NA----------				
51		m-Dinitrobenzene	50.000	44.833	10.3	101	-0.02	7.50
52	P	2,6-Dinitrotoluene		----------NA----------				
53		o-Dinitrobenzene		----------NA----------				
54	P	Acenaphthylene		----------NA----------				
55	P	3-Nitroaniline	50.000	48.326	3.3	107	0.00	7.30
56	P	Acenaphthene		----------NA----------				
		----------	Amount	Calc.	%Drift	----------		
57	P	2,4-Dinitrophenol		----------NA----------				
58	P	4-Nitrophenol		----------NA----------				
		----------	Amount	Calc.	%Drift	----------		
59	P	Dibenzofuran	50.000	46.363	7.3	105	0.00	7.85
60	P	2,4-Dinitrotoluene		----------NA----------				
61	P	2,3,5,6-Tetrachlorophenol		----------NA----------				
62	P	2,3,4,6-Tetrachlorophenol		----------NA----------				
63	P	Diethylphthalate		----------NA----------				
64	P	Fluorene		----------NA----------				
65	P	4-Chlorophenyl-phenylethe		----------NA----------				
66	P	4-Nitroaniline	50.000	49.208	1.6	102	-0.03	8.20
67	I	Phenanthrene-d10	40.000	40.000	0.0	110	0.00	8.97
		----------	Amount	Calc.	%Drift	----------		
68	P	4,6-Dinitro-2-methylpheno		----------NA----------				
		----------	Amount	Calc.	%Drift	----------		
69	P	Diphenylamine		----------NA----------				
70	P	n-Nitrosodiphenylamine		----------NA----------				
71		1,2-Diphenylhydrazine		----------NA----------				
72	S	2,4,6-Tribromophenol		----------NA----------				
73	P	4-Bromophenyl-phenylether		----------NA----------				
74	P	Hexachlorobenzene		----------NA----------				
75		Simazine		----------NA----------				
76	P	Atrazine		----------NA----------				
77	P	Pentachlorophenol		----------NA----------				
78	P	Phenanthrene		----------NA----------				
79	P	Anthracene		----------NA----------				
80	P	Carbazole	50.000	49.290	1.4	105	0.00	9.18
81	P	Di-n-butylphthalate		----------NA----------				
82	P	Fluoranthene		----------NA----------				

Initial Calibration Verification

Job Number: FA23258 **Sample:** SX1826-ICV1826
Account: FPMRNYR FPM Remediations **Lab FileID:** X039257.D
Project: HM-AZ PBR Holloman AFB; Alamogordo, NM

83	I	Chrysene-d12	40.000	40.000	0.0	108	-0.01	11.62
84		Benzidine	50.000	59.003	-18.0	114	0.00	10.17
85	P	Pyrene		----------NA----------				
86	S	Terphenyl-d14		----------NA----------				
87	P	Butylbenzylphthalate		----------NA----------				
88	P	3,3'-Dichlorobenzidine	50.000	52.253	-4.5	103	-0.01	11.60
89	P	Benzo[a]anthracene		----------NA----------				
90	P	Chrysene		----------NA----------				
91	P	bis(2-Ethylhexyl)phthalat		----------NA----------				
92	I	Perylene-d12	40.000	40.000	0.0	102	-0.01	13.96
93	P	Di-n-octylphthalate		----------NA----------				
94	P	Benzo[b]fluoranthene		----------NA----------				
95	P	Benzo[k]fluoranthene		----------NA----------				
96	P	Benzo[a]pyrene		----------NA----------				
		----------	Amount	Calc.	%Drift	----------		
97	P	Indeno[1,2,3-cd]pyrene		----------NA----------				
98	P	Dibenz[a,h]anthracene		----------NA----------				
		----------	Amount	Calc.	%Drift	----------		
99	P	Benzo[g,h,i]perylene		----------NA----------				

(#) = Out of Range SPCC's out = 0 CCC's out = 0
x039252.D 8270d_0330.m Tue Mar 31 14:34:32 2015

6.7.18

6

Initial Calibration Verification

Job Number: FA23258
Account: FPMRNYR FPM Remediations
Project: HM-AZ PBR Holloman AFB; Alamogordo, NM

Sample: SX1828-ICV1826
Lab FileID: X039304.D

Evaluate Continuing Calibration Report

```
Data File : C:\msdchem\1\DATA\sx1828\x039304.D          Vial: 3
Acq On    :  1 Apr 2015  10:19 am                   Operator: marthav
Sample    : icv1826-50,hexachlorobenzene            Inst    : MSBNA05
Misc      : op55512,sx1828,1000,,,1,1,water         Multiplr: 1.00
MS Integration Params: lscint.p

Method       : C:\msdchem\1\METHODS\8270d_03302.m (RTE Integrator)
Title        : SW846 8270D OR EPA 625
Last Update  : Tue Mar 31 09:29:41 2015
Response via : Multiple Level Calibration

Min. RRF     :   0.000  Min. Rel. Area :  50%  Max. R.T. Dev  0.50min
Max. RRF Dev :  20%     Max. Rel. Area : 200%
```

		Compound	Amount	Calc.	%Drift	Area%	Dev(min)	R.T.
1	I	1,4-Dichlorobenzene-d4	40.000	40.000	0.0	79	0.00	4.99
2		1,4-Dioxane		NA				
3		N-nitrosodimethylamine		NA				
4		Pyridine		NA				
5	S	2-Fluorophenol		NA				
		----------	Amount	Calc.	%Drift			
6	P	Benzaldehyde		NA				
		----------	Amount	Calc.	%Drift			
7		Aniline		NA				
8	P	bis(2-Chloroethyl)ether		NA				
9	S	Phenol-d5		NA				
10	P	Phenol		NA				
11	P	2-Chlorophenol		NA				
12		1,3-Dichlorobenzene		NA				
13		1,4-Dichlorobenzene		NA				
14		1,2-Dichlorobenzene		NA				
15		Benzyl alcohol		NA				
16	P	2-Methylphenol		NA				
		----------	Amount	Calc.	%Drift			
17	P	bis(2-chloroisopropyl)eth		NA				
		----------	Amount	Calc.	%Drift			
18	P	Acetophenone		NA				
19	P	N-Nitroso-di-n-propylamin		NA				
20	P	3&4-Methylphenol		NA				
21	P	Hexachloroethane		NA				
22	I	Naphthalene-d8	40.000	40.000	0.0	79	0.00	6.08
23	S	Nitrobenzene-d5		NA				
24	P	Nitrobenzene		NA				
25	P	Isophorone		NA				
26	P	2-Nitrophenol		NA				
27	P	2,4-Dimethylphenol		NA				
28	P	bis(2-Chloroethoxy)methan		NA				
29		Benzoic Acid		NA				
30	P	2,4-Dichlorophenol		NA				
31		1,2,4-Trichlorobenzene		NA				
32	P	Naphthalene		NA				
33	P	4-Chloroaniline		NA				

Initial Calibration Verification

Job Number: FA23258
Account: FPMRNYR FPM Remediations
Project: HM-AZ PBR Holloman AFB; Alamogordo, NM

Sample: SX1828-ICV1826
Lab FileID: X039304.D

34		2,6-Dichlorophenol		----------NA----------				
35	P	Hexachlorobutadiene		----------NA----------				
36	P	Caprolactam		----------NA----------				
37	P	4-Chloro-3-methylphenol		----------NA----------				
38	P	2-Methylnaphthalene		----------NA----------				
39		1-Methylnaphthalene		----------NA----------				
40	P	1,2,4,5-Tetrachlorobenzen		----------NA----------				
41	I	Acenaphthene-d10	40.000	40.000	0.0	79	0.00	7.63
42	P	Hexachlorocyclopentadiene		----------NA----------				
43	P	2,4,6-Trichlorophenol		----------NA----------				
44	P	2,4,5-Trichlorophenol		----------NA----------				
45	S	2-Fluorobiphenyl		----------NA----------				
46	P	1,1'-Biphenyl		----------NA----------				
47	P	2-Chloronaphthalene		----------NA----------				
48	P	2-Nitroaniline		----------NA----------				
49		p-Dinitrobenzene		----------NA----------				
50	P	Dimethylphthalate		----------NA----------				
51		m-Dinitrobenzene		----------NA----------				
52	P	2,6-Dinitrotoluene		----------NA----------				
53		o-Dinitrobenzene		----------NA----------				
54	P	Acenaphthylene		----------NA----------				
55	P	3-Nitroaniline		----------NA----------				
56	P	Acenaphthene		----------NA----------				
		----------	Amount	Calc.	%Drift	----------		
57	P	2,4-Dinitrophenol		----------NA----------				
58	P	4-Nitrophenol		----------NA----------				
		----------	Amount	Calc.	%Drift	----------		
59	P	Dibenzofuran		----------NA----------				
60	P	2,4-Dinitrotoluene		----------NA----------				
61	P	2,3,5,6-Tetrachlorophenol		----------NA----------				
62	P	2,3,4,6-Tetrachlorophenol		----------NA----------				
63	P	Diethylphthalate		----------NA----------				
64	P	Fluorene		----------NA----------				
65	P	4-Chlorophenyl-phenylethe		----------NA----------				
66	P	4-Nitroaniline		----------NA----------				
67	I	Phenanthrene-d10	40.000	40.000	0.0	74	0.00	8.91
		----------	Amount	Calc.	%Drift	----------		
68	P	4,6-Dinitro-2-methylpheno		----------NA----------				
		----------	Amount	Calc.	%Drift	----------		
69	P	Diphenylamine		----------NA----------				
70	P	n-Nitrosodiphenylamine		----------NA----------				
71		1,2-Diphenylhydrazine		----------NA----------				
72	S	2,4,6-Tribromophenol		----------NA----------				
73	P	4-Bromophenyl-phenylether		----------NA----------				
74	P	Hexachlorobenzene	50.000	42.152	15.7	62	0.00	8.66
75		Simazine		----------NA----------				
76	P	Atrazine		----------NA----------				
77	P	Pentachlorophenol		----------NA----------				
78	P	Phenanthrene		----------NA----------				
79	P	Anthracene		----------NA----------				
80	P	Carbazole		----------NA----------				
81	P	Di-n-butylphthalate		----------NA----------				
82	P	Fluoranthene		----------NA----------				

Initial Calibration Verification

Job Number: FA23258 **Sample:** SX1828-ICV1826
Account: FPMRNYR FPM Remediations **Lab FileID:** X039304.D
Project: HM-AZ PBR Holloman AFB; Alamogordo, NM

83	I	Chrysene-d12	40.000	40.000	0.0	63	-0.01	11.53
84		Benzidine		----------NA----------				
85	P	Pyrene		----------NA----------				
86	S	Terphenyl-d14		----------NA----------				
87	P	Butylbenzylphthalate		----------NA----------				
88	P	3,3'-Dichlorobenzidine		----------NA----------				
89	P	Benzo[a]anthracene		----------NA----------				
90	P	Chrysene		----------NA----------				
91	P	bis(2-Ethylhexyl)phthalat		----------NA----------				
92	I	Perylene-d12	40.000	40.000	0.0	60	-0.01	13.84
93	P	Di-n-octylphthalate		----------NA----------				
94	P	Benzo[b]fluoranthene		----------NA----------				
95	P	Benzo[k]fluoranthene		----------NA----------				
96	P	Benzo[a]pyrene		----------NA----------				
		----------	Amount	Calc.	%Drift	----------		
97	P	Indeno[1,2,3-cd]pyrene		----------NA----------				
98	P	Dibenz[a,h]anthracene		----------NA----------				
		----------	Amount	Calc.	%Drift	----------		
99	P	Benzo[g,h,i]perylene		----------NA----------				

(#) = Out of Range SPCC's out = 0 CCC's out = 0
x039252.D 8270d_03302.m Thu Apr 02 13:29:53 2015

6.7.19

6

Continuing Calibration Summary

Job Number: FA23258
Account: FPMRNYR FPM Remediations
Project: HM-AZ PBR Holloman AFB; Alamogordo, NM

Sample: SX1832-CC1826
Lab FileID: X039417.D

Evaluate Continuing Calibration Report

```
Data File : C:\msdchem\1\DATA\sx1832\x039417.D          Vial: 3
Acq On    :  7 Apr 2015  12:55 pm                   Operator: marthav
Sample    : cc1826-50                               Inst    : MSBNA05
Misc      : op55570,sx1832,1000,,,1,1,water         Multiplr: 1.00
MS Integration Params: lscint.p

Method       : C:\msdchem\1\METHODS\8270d_03302.m (RTE Integrator)
Title        : SW846 8270D OR EPA 625
Last Update  : Tue Mar 31 09:29:41 2015
Response via : Multiple Level Calibration

Min. RRF     :   0.000  Min. Rel. Area :  50%  Max. R.T. Dev  0.50min
Max. RRF Dev :  20%     Max. Rel. Area : 200%
```

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	114	0.00	4.93
2		1,4-Dioxane	0.628	0.609	3.0	109	-0.05	2.33
3		N-nitrosodimethylamine	0.913	0.899	1.5	108	0.00	2.68
4		Pyridine	1.668	1.732	-3.8	114	0.00	2.66
5	S	2-Fluorophenol	1.432	1.467	-2.4	114	0.00	3.92
		----------	Amount	Calc.	%Drift		----------	
6	P	Benzaldehyde	50.000	54.748	-9.5	115	0.00	4.56
		----------	AvgRF	CCRF	%Dev		----------	
7		Aniline	2.117	2.098	0.9	112	0.00	4.69
8	P	bis(2-Chloroethyl)ether	1.375	1.371	0.3	113	0.00	4.74
9	S	Phenol-d5	1.457	1.464	-0.5	113	0.00	4.72
10	P	Phenol	1.906	1.823	4.4	108	0.00	4.73
11	P	2-Chlorophenol	1.534	1.522	0.8	112	0.00	4.80
12		1,3-Dichlorobenzene	1.630	1.608	1.3	112	0.00	4.89
13		1,4-Dichlorobenzene	1.630	1.618	0.7	111	0.00	4.94
14		1,2-Dichlorobenzene	1.554	1.538	1.0	111	0.00	5.10
15		Benzyl alcohol	0.984	1.006	-2.2	117	0.00	5.08
16	P	2-Methylphenol	1.336	1.307	2.2	109	0.00	5.22
		----------	Amount	Calc.	%Drift		----------	
17	P	bis(2-chloroisopropyl)eth	50.000	49.604	0.8	113	0.00	5.20
		----------	AvgRF	CCRF	%Dev		----------	
18	P	Acetophenone	2.020	1.902	5.8	107	0.00	5.30
19	P	N-Nitroso-di-n-propylamin	0.790	0.691	12.5	93	0.01	5.33
20	P	3&4-Methylphenol	1.402	1.399	0.2	112	0.00	5.34
21	P	Hexachloroethane	0.668	0.666	0.3	112	0.00	5.36
22	I	Naphthalene-d8	1.000	1.000	0.0	109	0.00	6.02
23	S	Nitrobenzene-d5	0.424	0.435	-2.6	113	0.00	5.43
24	P	Nitrobenzene	0.401	0.406	-1.2	112	-0.01	5.44
25	P	Isophorone	0.734	0.740	-0.8	111	0.00	5.64
26	P	2-Nitrophenol	0.208	0.218	-4.8	114	0.00	5.72
27	P	2,4-Dimethylphenol	0.380	0.364	4.2	107	0.01	5.78
28	P	bis(2-Chloroethoxy)methan	0.417	0.421	-1.0	112	0.00	5.84
29		Benzoic Acid	0.289	0.248	14.2	86	0.00	5.93
30	P	2,4-Dichlorophenol	0.307	0.314	-2.3	114	0.00	5.94
31		1,2,4-Trichlorobenzene	0.312	0.312	0.0	110	0.00	5.99
32	P	Naphthalene	1.031	1.016	1.5	108	0.00	6.04
33	P	4-Chloroaniline	0.476	0.465	2.3	107	0.00	6.12

Continuing Calibration Summary

Job Number: FA23258 **Sample:** SX1832-CC1826
Account: FPMRNYR FPM Remediations **Lab FileID:** X039417.D
Project: HM-AZ PBR Holloman AFB; Alamogordo, NM

34		2,6-Dichlorophenol	0.307	0.314	-2.3	114	0.00	5.94
35	P	Hexachlorobutadiene	0.175	0.178	-1.7	113	0.00	6.20
36	P	Caprolactam	0.124	0.126	-1.6	109	0.00	6.43
37	P	4-Chloro-3-methylphenol	0.332	0.339	-2.1	110	0.00	6.57
38	P	2-Methylnaphthalene	0.732	0.736	-0.5	111	0.00	6.64
39		1-Methylnaphthalene	0.650	0.651	-0.2	111	0.00	6.73
40	P	1,2,4,5-Tetrachlorobenzen	0.305	0.314	-3.0	112	0.00	6.82
41	I	Acenaphthene-d10	1.000	1.000	0.0	114	0.00	7.57
42	P	Hexachlorocyclopentadiene	0.358	0.367	-2.5	110	0.00	6.84
43	P	2,4,6-Trichlorophenol	0.379	0.386	-1.8	114	0.00	6.93
44	P	2,4,5-Trichlorophenol	0.403	0.395	2.0	111	0.00	6.98
45	S	2-Fluorobiphenyl	1.356	1.304	3.8	108	0.00	6.98
46	P	1,1'-Biphenyl	1.524	1.442	5.4	107	0.00	7.06
47	P	2-Chloronaphthalene	1.178	1.144	2.9	110	0.00	7.06
48	P	2-Nitroaniline	0.441	0.460	-4.3	112	0.00	7.19
49		p-Dinitrobenzene	0.266	0.287	-7.9	114	0.00	7.29
50	P	Dimethylphthalate	1.326	1.302	1.8	110	0.00	7.38
51		m-Dinitrobenzene	0.224	0.232	-3.6	115	0.00	7.39
52	P	2,6-Dinitrotoluene	0.311	0.307	1.3	112	0.00	7.44
53		o-Dinitrobenzene	0.276	0.284	-2.9	112	0.00	7.50
54	P	Acenaphthylene	1.854	1.803	2.8	110	0.00	7.43
55	P	3-Nitroaniline	0.445	0.457	-2.7	113	0.00	7.19
56	P	Acenaphthene	1.193	1.151	3.5	108	0.00	7.60
		----------	Amount	Calc.	%Drift	----------		
57	P	2,4-Dinitrophenol	50.000	47.411	5.2	102	0.00	7.64
58	P	4-Nitrophenol	50.000	48.879	2.2	106	0.00	7.77
		----------	AvgRF	CCRF	%Dev	----------		
59	P	Dibenzofuran	1.665	1.632	2.0	110	0.00	7.74
60	P	2,4-Dinitrotoluene	0.423	0.438	-3.5	113	0.00	7.78
61	P	2,3,5,6-Tetrachlorophenol	0.318	0.333	-4.7	115	0.00	7.86
62	P	2,3,4,6-Tetrachlorophenol	0.311	0.312	-0.3	110	0.00	7.89
63	P	Diethylphthalate	1.369	1.352	1.2	110	0.00	8.01
64	P	Fluorene	1.364	1.349	1.1	111	0.00	8.04
65	P	4-Chlorophenyl-phenylethe	0.617	0.622	-0.8	112	0.00	8.04
66	P	4-Nitroaniline	0.332	0.309	6.9	96	0.00	8.11
67	I	Phenanthrene-d10	1.000	1.000	0.0	113	0.00	8.85
		----------	Amount	Calc.	%Drift	----------		
68	P	4,6-Dinitro-2-methylpheno	50.000	51.307	-2.6	115	0.00	8.14
		----------	AvgRF	CCRF	%Dev	----------		
69	P	Diphenylamine	0.742	0.720	3.0	109	0.00	8.16
70	P	n-Nitrosodiphenylamine	0.619	0.600	3.1	109	0.00	8.16
71		1,2-Diphenylhydrazine	0.906	0.883	2.5	111	0.00	8.18
72	S	2,4,6-Tribromophenol	0.090	0.100	-11.1	128	0.00	8.27
73	P	4-Bromophenyl-phenylether	0.209	0.210	-0.5	115	0.00	8.46
74	P	Hexachlorobenzene	0.201	0.203	-1.0	114	0.00	8.59
75		Simazine	0.127	0.109	14.2	98	0.00	8.63
76	P	Atrazine	0.248	0.231	6.9	105	0.00	8.66
77	P	Pentachlorophenol	0.130	0.141	-8.5	116	0.00	8.76
78	P	Phenanthrene	1.175	1.148	2.3	111	0.00	8.88
79	P	Anthracene	1.172	1.146	2.2	109	0.00	8.91
80	P	Carbazole	1.108	1.017	8.2	100	0.00	9.07
81	P	Di-n-butylphthalate	1.379	1.326	3.8	109	0.00	9.43
82	P	Fluoranthene	1.215	1.206	0.7	111	0.00	9.93

Continuing Calibration Summary

Job Number: FA23258 **Sample:** SX1832-CC1826
Account: FPMRNYR FPM Remediations **Lab FileID:** X039417.D
Project: HM-AZ PBR Holloman AFB; Alamogordo, NM

83	I	Chrysene-d12	1.000	1.000	0.0	105	0.00	11.45
84		Benzidine	0.587	0.458	22.0#	74	0.00	10.05
85	P	Pyrene	1.479	1.514	-2.4	112	0.03	10.13
86	S	Terphenyl-d14	0.914	0.989	-8.2	115	0.03	10.29
87	P	Butylbenzylphthalate	0.706	0.747	-5.8	113	0.00	10.84
88	P	3,3'-Dichlorobenzidine	0.319	0.343	-7.5	104	0.00	11.43
89	P	Benzo[a]anthracene	1.154	1.222	-5.9	109	0.00	11.42
90	P	Chrysene	1.095	1.159	-5.8	111	0.00	11.49
91	P	bis(2-Ethylhexyl)phthalat	0.935	0.979	-4.7	111	0.00	11.61
92	I	Perylene-d12	1.000	1.000	0.0	101	0.00	13.71
93	P	Di-n-octylphthalate	2.049	2.376	-16.0	114	0.03	12.57
94	P	Benzo[b]fluoranthene	1.282	1.437	-12.1	110	0.00	13.05
95	P	Benzo[k]fluoranthene	1.315	1.412	-7.4	105	0.00	13.10
96	P	Benzo[a]pyrene	1.150	1.258	-9.4	103	0.00	13.60
			Amount	Calc.	%Drift			
97	P	Indeno[1,2,3-cd]pyrene	50.000	46.924	6.2	94	-0.01	15.72
98	P	Dibenz[a,h]anthracene	50.000	45.998	8.0	91	-0.02	15.79
			AvgRF	CCRF	%Dev			
99	P	Benzo[g,h,i]perylene	0.855	0.778	9.0	86	0.01	16.20

(#) = Out of Range SPCC's out = 0 CCC's out = 0
x039252.D 8270d_03302.m Thu Apr 09 10:07:55 2015

6.7.20

6

Continuing Calibration Summary

Job Number: FA23258
Account: FPMRNYR FPM Remediations
Project: HM-AZ PBR Holloman AFB; Alamogordo, NM
Sample: SX1832-ECC1826
Lab FileID: X039439.D

Evaluate Continuing Calibration Report

```
Data File : C:\msdchem\1\DATA\sx1832\x039439.D          Vial: 25
Acq On    :  8 Apr 2015   8:36 am                   Operator: marthav
Sample    : ecc1826-50                              Inst    : MSBNA05
Misc      : op55570,sx1832,100,,,1,1,water          Multiplr: 1.00
MS Integration Params: lscint.p

Method       : C:\msdchem\1\METHODS\8270d_03302.m (RTE Integrator)
Title        : SW846 8270D OR EPA 625
Last Update  : Tue Mar 31 09:29:41 2015
Response via : Multiple Level Calibration

Min. RRF     :   0.000  Min. Rel. Area :  50%  Max. R.T. Dev  0.50min
Max. RRF Dev :  50%     Max. Rel. Area : 200%
```

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	73	0.00	4.92
2		1,4-Dioxane	0.628	0.706	-12.4	80	-0.08	2.30
3		N-nitrosodimethylamine	0.913	0.983	-7.7	75	-0.04	2.65
4		Pyridine	1.668	1.744	-4.6	73	-0.03	2.64
5	S	2-Fluorophenol	1.432	1.470	-2.7	73	0.00	3.92
		----------	Amount	Calc.	%Drift		----------	
6	P	Benzaldehyde	50.000	38.907	22.2	58	-0.01	4.56
		----------	AvgRF	CCRF	%Dev		----------	
7		Aniline	2.117	2.107	0.5	72	0.00	4.68
8	P	bis(2-Chloroethyl)ether	1.375	1.333	3.1	70	-0.01	4.74
9	S	Phenol-d5	1.457	1.486	-2.0	73	0.00	4.71
10	P	Phenol	1.906	1.815	4.8	69	0.00	4.72
11	P	2-Chlorophenol	1.534	1.529	0.3	72	0.00	4.79
12		1,3-Dichlorobenzene	1.630	1.606	1.5	71	0.00	4.89
13		1,4-Dichlorobenzene	1.630	1.646	-1.0	72	0.00	4.93
14		1,2-Dichlorobenzene	1.554	1.531	1.5	70	0.00	5.09
15		Benzyl alcohol	0.984	0.998	-1.4	74	0.00	5.07
16	P	2-Methylphenol	1.336	1.313	1.7	69	0.00	5.22
		----------	Amount	Calc.	%Drift		----------	
17	P	bis(2-chloroisopropyl)eth	50.000	52.792	-5.6	75	0.00	5.20
		----------	AvgRF	CCRF	%Dev		----------	
18	P	Acetophenone	2.020	1.925	4.7	69	0.00	5.29
19	P	N-Nitroso-di-n-propylamin	0.790	0.809	-2.4	69	0.00	5.32
20	P	3&4-Methylphenol	1.402	1.418	-1.1	72	0.00	5.34
21	P	Hexachloroethane	0.668	0.649	2.8	69	0.00	5.35
22	I	Naphthalene-d8	1.000	1.000	0.0	71	0.00	6.02
23	S	Nitrobenzene-d5	0.424	0.416	1.9	70	-0.02	5.42
24	P	Nitrobenzene	0.401	0.393	2.0	70	-0.02	5.43
25	P	Isophorone	0.734	0.716	2.5	70	-0.02	5.64
26	P	2-Nitrophenol	0.208	0.211	-1.4	72	0.00	5.71
27	P	2,4-Dimethylphenol	0.380	0.377	0.8	72	0.00	5.78
28	P	bis(2-Chloroethoxy)methan	0.417	0.411	1.4	71	0.00	5.84
29		Benzoic Acid	0.289	0.238	17.6	54	-0.03	5.90
30	P	2,4-Dichlorophenol	0.307	0.305	0.7	72	0.00	5.94
31		1,2,4-Trichlorobenzene	0.312	0.312	0.0	72	0.00	5.99
32	P	Naphthalene	1.031	1.028	0.3	71	0.00	6.04
33	P	4-Chloroaniline	0.476	0.463	2.7	69	0.00	6.11

Continuing Calibration Summary

Job Number: FA23258 **Sample:** SX1832-ECC1826
Account: FPMRNYR FPM Remediations **Lab FileID:** X039439.D
Project: HM-AZ PBR Holloman AFB; Alamogordo, NM

34		2,6-Dichlorophenol	0.307	0.305	0.7	72	0.00	5.94
35	P	Hexachlorobutadiene	0.175	0.173	1.1	72	0.00	6.20
36	P	Caprolactam	0.124	0.120	3.2	67	-0.03	6.41
37	P	4-Chloro-3-methylphenol	0.332	0.323	2.7	68	0.00	6.57
38	P	2-Methylnaphthalene	0.732	0.731	0.1	72	0.00	6.64
39		1-Methylnaphthalene	0.650	0.640	1.5	71	0.00	6.73
40	P	1,2,4,5-Tetrachlorobenzen	0.305	0.299	2.0	69	0.00	6.82
41	I	Acenaphthene-d10	1.000	1.000	0.0	71	0.00	7.57
42	P	Hexachlorocyclopentadiene	0.358	0.256	28.5	48#	0.00	6.84
43	P	2,4,6-Trichlorophenol	0.379	0.392	-3.4	72	0.00	6.92
44	P	2,4,5-Trichlorophenol	0.403	0.410	-1.7	72	0.00	6.98
45	S	2-Fluorobiphenyl	1.356	1.370	-1.0	71	0.00	6.98
46	P	1,1'-Biphenyl	1.524	1.540	-1.0	71	0.00	7.05
47	P	2-Chloronaphthalene	1.178	1.168	0.8	70	-0.01	7.06
48	P	2-Nitroaniline	0.441	0.447	-1.4	68	0.00	7.18
49		p-Dinitrobenzene	0.266	0.265	0.4	66	0.00	7.28
50	P	Dimethylphthalate	1.326	1.352	-2.0	71	0.00	7.37
51		m-Dinitrobenzene	0.224	0.225	-0.4	69	0.00	7.38
52	P	2,6-Dinitrotoluene	0.311	0.313	-0.6	71	0.00	7.43
53		o-Dinitrobenzene	0.276	0.274	0.7	67	0.00	7.49
54	P	Acenaphthylene	1.854	1.873	-1.0	71	0.00	7.43
55	P	3-Nitroaniline	0.445	0.449	-0.9	69	0.00	7.18
56	P	Acenaphthene	1.193	1.214	-1.8	71	0.00	7.59
		----------	Amount	Calc.	%Drift	----------		
57	P	2,4-Dinitrophenol	50.000	33.551	32.9	43	0.00	7.64
58	P	4-Nitrophenol	50.000	48.374	3.3	65	0.00	7.77
		----------	AvgRF	CCRF	%Dev	----------		
59	P	Dibenzofuran	1.665	1.701	-2.2	71	0.00	7.73
60	P	2,4-Dinitrotoluene	0.423	0.429	-1.4	69	0.00	7.77
61	P	2,3,5,6-Tetrachlorophenol	0.318	0.325	-2.2	70	0.00	7.85
62	P	2,3,4,6-Tetrachlorophenol	0.311	0.315	-1.3	69	0.00	7.89
63	P	Diethylphthalate	1.369	1.406	-2.7	71	0.00	8.00
64	P	Fluorene	1.364	1.377	-1.0	71	0.00	8.03
65	P	4-Chlorophenyl-phenylethe	0.617	0.624	-1.1	70	0.00	8.04
66	P	4-Nitroaniline	0.332	0.348	-4.8	67	0.00	8.10
67	I	Phenanthrene-d10	1.000	1.000	0.0	72	0.00	8.85
		----------	Amount	Calc.	%Drift	----------		
68	P	4,6-Dinitro-2-methylpheno	50.000	38.101	23.8	53	0.00	8.13
		----------	AvgRF	CCRF	%Dev	----------		
69	P	Diphenylamine	0.742	0.715	3.6	69	0.00	8.15
70	P	n-Nitrosodiphenylamine	0.619	0.596	3.7	69	0.00	8.15
71		1,2-Diphenylhydrazine	0.906	0.869	4.1	69	0.00	8.18
72	S	2,4,6-Tribromophenol	0.090	0.090	0.0	73	0.00	8.27
73	P	4-Bromophenyl-phenylether	0.209	0.204	2.4	72	0.00	8.46
74	P	Hexachlorobenzene	0.201	0.193	4.0	69	0.00	8.59
75		Simazine	0.127	0.103	18.9	58	0.00	8.63
76	P	Atrazine	0.248	0.228	8.1	66	0.00	8.66
77	P	Pentachlorophenol	0.130	0.129	0.8	68	0.00	8.76
78	P	Phenanthrene	1.175	1.132	3.7	69	0.00	8.87
79	P	Anthracene	1.172	1.164	0.7	70	0.00	8.91
80	P	Carbazole	1.108	1.113	-0.5	70	0.00	9.06
81	P	Di-n-butylphthalate	1.379	1.361	1.3	71	0.00	9.43
82	P	Fluoranthene	1.215	1.191	2.0	70	0.00	9.92

Continuing Calibration Summary

Job Number: FA23258 **Sample:** SX1832-ECC1826
Account: FPMRNYR FPM Remediations **Lab FileID:** X039439.D
Project: HM-AZ PBR Holloman AFB; Alamogordo, NM

83	I	Chrysene-d12	1.000	1.000	0.0	64	0.00	11.44
84		Benzidine	0.587	0.524	10.7	51	0.00	10.05
85	P	Pyrene	1.479	1.548	-4.7	69	0.02	10.12
86	S	Terphenyl-d14	0.914	1.005	-10.0	71	0.02	10.28
87	P	Butylbenzylphthalate	0.706	0.737	-4.4	68	-0.01	10.83
88	P	3,3'-Dichlorobenzidine	0.319	0.376	-17.9	69	-0.01	11.42
89	P	Benzo[a]anthracene	1.154	1.260	-9.2	68	-0.01	11.42
90	P	Chrysene	1.095	1.196	-9.2	69	-0.02	11.48
91	P	bis(2-Ethylhexyl)phthalat	0.935	0.995	-6.4	69	0.00	11.61
92	I	Perylene-d12	1.000	1.000	0.0	70	0.00	13.70
93	P	Di-n-octylphthalate	2.049	2.087	-1.9	69	0.03	12.56
94	P	Benzo[b]fluoranthene	1.282	1.344	-4.8	70	0.00	13.05
95	P	Benzo[k]fluoranthene	1.315	1.349	-2.6	69	0.00	13.09
96	P	Benzo[a]pyrene	1.150	1.244	-8.2	70	-0.01	13.59
		----------	Amount	Calc.	%Drift		----------	
97	P	Indeno[1,2,3-cd]pyrene	50.000	53.881	-7.8	75	-0.02	15.71
98	P	Dibenz[a,h]anthracene	50.000	53.316	-6.6	74	-0.03	15.78
		----------	AvgRF	CCRF	%Dev		----------	
99	P	Benzo[g,h,i]perylene	0.855	0.914	-6.9	69	0.00	16.19

(#) = Out of Range SPCC's out = 0 CCC's out = 0
x039252.D 8270d_03302.m Thu Apr 09 10:08:15 2015

6.7.21

6

Continuing Calibration Summary

Job Number: FA23258
Account: FPMRNYR FPM Remediations
Project: HM-AZ PBR Holloman AFB; Alamogordo, NM
Sample: SX1833-CC1826
Lab FileID: X039441.D

Evaluate Continuing Calibration Report

```
Data File : C:\msdchem\1\DATA\sx1833\x039441.D          Vial: 2
Acq On    :  8 Apr 2015   2:17 pm                   Operator: marthav
Sample    : cc1826-50                               Inst    : MSBNA05
Misc      : op55570,sx1833,1000,,,1,1,water         Multiplr: 1.00
MS Integration Params: lscint.p

Method       : C:\msdchem\1\METHODS\8270d_03302.m (RTE Integrator)
Title        : SW846 8270D OR EPA 625
Last Update  : Tue Mar 31 09:29:41 2015
Response via : Multiple Level Calibration

Min. RRF     :   0.000  Min. Rel. Area :  50%  Max. R.T. Dev  0.50min
Max. RRF Dev :  20%     Max. Rel. Area : 200%
```

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	94	0.00	4.91
2		1,4-Dioxane	0.628	0.682	-8.6	100	-0.08	2.29
3		N-nitrosodimethylamine	0.913	0.945	-3.5	93	-0.03	2.64
4		Pyridine	1.668	1.788	-7.2	97	-0.03	2.63
5	S	2-Fluorophenol	1.432	1.430	0.1	92	0.00	3.90
		----------	Amount	Calc.	%Drift		----------	
6	P	Benzaldehyde	50.000	54.764	-9.5	94	0.00	4.54
		----------	AvgRF	CCRF	%Dev		----------	
7		Aniline	2.117	2.053	3.0	90	0.00	4.67
8	P	bis(2-Chloroethyl)ether	1.375	1.317	4.2	90	0.00	4.72
9	S	Phenol-d5	1.457	1.440	1.2	92	0.00	4.70
10	P	Phenol	1.906	1.793	5.9	88	0.00	4.71
11	P	2-Chlorophenol	1.534	1.493	2.7	91	0.00	4.78
12		1,3-Dichlorobenzene	1.630	1.584	2.8	90	0.00	4.87
13		1,4-Dichlorobenzene	1.630	1.597	2.0	91	0.00	4.92
14		1,2-Dichlorobenzene	1.554	1.496	3.7	89	0.00	5.08
15		Benzyl alcohol	0.984	0.992	-0.8	95	0.00	5.06
16	P	2-Methylphenol	1.336	1.274	4.6	87	0.00	5.20
		----------	Amount	Calc.	%Drift		----------	
17	P	bis(2-chloroisopropyl)eth	50.000	47.694	4.6	90	0.00	5.18
		----------	AvgRF	CCRF	%Dev		----------	
18	P	Acetophenone	2.020	1.932	4.4	89	0.00	5.28
19	P	N-Nitroso-di-n-propylamin	0.790	0.749	5.2	83	0.01	5.31
20	P	3&4-Methylphenol	1.402	1.394	0.6	92	0.00	5.32
21	P	Hexachloroethane	0.668	0.655	1.9	90	0.00	5.34
22	I	Naphthalene-d8	1.000	1.000	0.0	89	0.00	6.00
23	S	Nitrobenzene-d5	0.424	0.425	-0.2	90	-0.01	5.41
24	P	Nitrobenzene	0.401	0.397	1.0	89	-0.01	5.42
25	P	Isophorone	0.734	0.722	1.6	89	-0.01	5.62
26	P	2-Nitrophenol	0.208	0.219	-5.3	94	0.00	5.70
27	P	2,4-Dimethylphenol	0.380	0.370	2.6	89	0.00	5.76
28	P	bis(2-Chloroethoxy)methan	0.417	0.412	1.2	89	0.00	5.82
29		Benzoic Acid	0.289	0.256	11.4	73	-0.01	5.89
30	P	2,4-Dichlorophenol	0.307	0.310	-1.0	92	0.00	5.92
31		1,2,4-Trichlorobenzene	0.312	0.310	0.6	89	0.00	5.97
32	P	Naphthalene	1.031	1.011	1.9	88	0.00	6.02
33	P	4-Chloroaniline	0.476	0.459	3.6	86	0.00	6.10

Continuing Calibration Summary

Job Number: FA23258 **Sample:** SX1833-CC1826
Account: FPMRNYR FPM Remediations **Lab FileID:** X039441.D
Project: HM-AZ PBR Holloman AFB; Alamogordo, NM

34		2,6-Dichlorophenol	0.307	0.310	-1.0	92	0.00	5.92
35	P	Hexachlorobutadiene	0.175	0.176	-0.6	91	0.00	6.18
36	P	Caprolactam	0.124	0.128	-3.2	90	-0.01	6.40
37	P	4-Chloro-3-methylphenol	0.332	0.332	0.0	88	0.00	6.55
38	P	2-Methylnaphthalene	0.732	0.736	-0.5	91	0.00	6.62
39		1-Methylnaphthalene	0.650	0.645	0.8	90	0.00	6.71
40	P	1,2,4,5-Tetrachlorobenzen	0.305	0.312	-2.3	91	0.00	6.80
41	I	Acenaphthene-d10	1.000	1.000	0.0	93	0.00	7.55
42	P	Hexachlorocyclopentadiene	0.358	0.363	-1.4	89	0.00	6.82
43	P	2,4,6-Trichlorophenol	0.379	0.376	0.8	91	0.00	6.91
44	P	2,4,5-Trichlorophenol	0.403	0.388	3.7	89	0.00	6.96
45	S	2-Fluorobiphenyl	1.356	1.300	4.1	88	0.00	6.96
46	P	1,1'-Biphenyl	1.524	1.513	0.7	92	0.00	7.04
47	P	2-Chloronaphthalene	1.178	1.126	4.4	88	0.00	7.04
48	P	2-Nitroaniline	0.441	0.442	-0.2	88	0.00	7.17
49		p-Dinitrobenzene	0.266	0.277	-4.1	90	0.00	7.26
50	P	Dimethylphthalate	1.326	1.297	2.2	89	0.00	7.36
51		m-Dinitrobenzene	0.224	0.225	-0.4	91	0.00	7.37
52	P	2,6-Dinitrotoluene	0.311	0.310	0.3	92	0.00	7.41
53		o-Dinitrobenzene	0.276	0.275	0.4	88	0.00	7.47
54	P	Acenaphthylene	1.854	1.820	1.8	91	0.00	7.41
55	P	3-Nitroaniline	0.445	0.449	-0.9	90	0.00	7.17
56	P	Acenaphthene	1.193	1.175	1.5	90	0.00	7.57
		----------	Amount	Calc.	%Drift		----------	
57	P	2,4-Dinitrophenol	50.000	41.838	16.3	72	0.00	7.62
58	P	4-Nitrophenol	50.000	47.974	4.1	84	0.00	7.74
		----------	AvgRF	CCRF	%Dev		----------	
59	P	Dibenzofuran	1.665	1.606	3.5	88	0.00	7.71
60	P	2,4-Dinitrotoluene	0.423	0.421	0.5	89	0.00	7.75
61	P	2,3,5,6-Tetrachlorophenol	0.318	0.322	-1.3	91	0.00	7.83
62	P	2,3,4,6-Tetrachlorophenol	0.311	0.317	-1.9	91	0.00	7.87
63	P	Diethylphthalate	1.369	1.350	1.4	90	0.00	7.98
64	P	Fluorene	1.364	1.336	2.1	90	0.00	8.01
65	P	4-Chlorophenyl-phenylethe	0.617	0.622	-0.8	91	0.00	8.02
66	P	4-Nitroaniline	0.332	0.321	3.3	81	0.00	8.08
67	I	Phenanthrene-d10	1.000	1.000	0.0	92	0.00	8.83
		----------	Amount	Calc.	%Drift		----------	
68	P	4,6-Dinitro-2-methylpheno	50.000	46.732	6.5	84	0.00	8.11
		----------	AvgRF	CCRF	%Dev		----------	
69	P	Diphenylamine	0.742	0.716	3.5	88	0.00	8.13
70	P	n-Nitrosodiphenylamine	0.619	0.597	3.6	88	0.00	8.13
71		1,2-Diphenylhydrazine	0.906	0.849	6.3	86	0.00	8.16
72	S	2,4,6-Tribromophenol	0.090	0.093	-3.3	97	0.00	8.25
73	P	4-Bromophenyl-phenylether	0.209	0.205	1.9	91	0.00	8.44
74	P	Hexachlorobenzene	0.201	0.198	1.5	91	0.00	8.57
75		Simazine	0.127	0.108	15.0	78	0.00	8.61
76	P	Atrazine	0.248	0.242	2.4	89	0.00	8.64
77	P	Pentachlorophenol	0.130	0.134	-3.1	90	0.00	8.74
78	P	Phenanthrene	1.175	1.145	2.6	89	0.00	8.85
79	P	Anthracene	1.172	1.166	0.5	90	0.00	8.89
80	P	Carbazole	1.108	1.082	2.3	87	0.00	9.04
81	P	Di-n-butylphthalate	1.379	1.357	1.6	90	0.00	9.41
82	P	Fluoranthene	1.215	1.198	1.4	90	0.00	9.90

Continuing Calibration Summary

Job Number: FA23258 **Sample:** SX1833-CC1826
Account: FPMRNYR FPM Remediations **Lab FileID:** X039441.D
Project: HM-AZ PBR Holloman AFB; Alamogordo, NM

83	I	Chrysene-d12	1.000	1.000	0.0	84	0.00	11.42
84		Benzidine	0.587	0.526	10.4	67	0.00	10.03
85	P	Pyrene	1.479	1.548	-4.7	91	0.03	10.10
86	S	Terphenyl-d14	0.914	0.966	-5.7	89	0.03	10.26
87	P	Butylbenzylphthalate	0.706	0.721	-2.1	87	0.00	10.81
88	P	3,3'-Dichlorobenzidine	0.319	0.364	-14.1	87	0.00	11.40
89	P	Benzo[a]anthracene	1.154	1.270	-10.1	90	0.00	11.39
90	P	Chrysene	1.095	1.142	-4.3	87	0.00	11.45
91	P	bis(2-Ethylhexyl)phthalat	0.935	0.966	-3.3	87	0.00	11.58
92	I	Perylene-d12	1.000	1.000	0.0	84	0.00	13.66
93	P	Di-n-octylphthalate	2.049	2.210	-7.9	88	0.04	12.53
94	P	Benzo[b]fluoranthene	1.282	1.401	-9.3	88	0.00	13.01
95	P	Benzo[k]fluoranthene	1.315	1.366	-3.9	84	0.00	13.06
96	P	Benzo[a]pyrene	1.150	1.244	-8.2	84	0.00	13.56
			Amount	Calc.	%Drift			
97	P	Indeno[1,2,3-cd]pyrene	50.000	47.306	5.4	78	-0.02	15.67
98	P	Dibenz[a,h]anthracene	50.000	47.338	5.3	78	-0.01	15.75
			AvgRF	CCRF	%Dev			
99	P	Benzo[g,h,i]perylene	0.855	0.802	6.2	73	0.02	16.15

(#) = Out of Range SPCC's out = 0 CCC's out = 0
x039252.D 8270d_03302.m Thu Apr 09 13:45:05 2015

6.7.22

6

Continuing Calibration Summary

Job Number: FA23258
Account: FPMRNYR FPM Remediations
Project: HM-AZ PBR Holloman AFB; Alamogordo, NM
Sample: SX1833-ECC1826
Lab FileID: X039475.D

Evaluate Continuing Calibration Report

```
Data File : C:\msdchem\1\DATA\sx1833\x039475.D          Vial: 2
Acq On    :  9 Apr 2015   4:12 am                    Operator: marthav
Sample    : Ecc1826-50                               Inst    : MSBNA05
Misc      : op55570,sx1833,1000,,,1,1,water          Multiplr: 1.00
MS Integration Params: lscint.p

Method       : C:\msdchem\1\METHODS\8270d_03302.m (RTE Integrator)
Title        : SW846 8270D OR EPA 625
Last Update  : Tue Mar 31 09:29:41 2015
Response via : Multiple Level Calibration

Min. RRF     :   0.000  Min. Rel. Area :  50%  Max. R.T. Dev  0.50min
Max. RRF Dev :  50%     Max. Rel. Area : 200%
```

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	78	0.00	4.90
2		1,4-Dioxane	0.628	0.698	-11.1	85	-0.09	2.28
3		N-nitrosodimethylamine	0.913	0.957	-4.8	78	-0.04	2.63
4		Pyridine	1.668	1.682	-0.8	76	-0.04	2.62
5	S	2-Fluorophenol	1.432	1.439	-0.5	76	0.00	3.90
		----------	Amount	Calc.	%Drift		----------	
6	P	Benzaldehyde	50.000	41.947	16.1	66	0.00	4.54
		----------	AvgRF	CCRF	%Dev		----------	
7		Aniline	2.117	2.096	1.0	76	0.00	4.67
8	P	bis(2-Chloroethyl)ether	1.375	1.328	3.4	75	0.00	4.72
9	S	Phenol-d5	1.457	1.445	0.8	76	0.00	4.70
10	P	Phenol	1.906	1.793	5.9	73	0.00	4.70
11	P	2-Chlorophenol	1.534	1.468	4.3	74	0.00	4.77
12		1,3-Dichlorobenzene	1.630	1.613	1.0	76	0.00	4.87
13		1,4-Dichlorobenzene	1.630	1.593	2.3	75	0.00	4.92
14		1,2-Dichlorobenzene	1.554	1.513	2.6	74	0.00	5.08
15		Benzyl alcohol	0.984	0.963	2.1	76	0.00	5.05
16	P	2-Methylphenol	1.336	1.291	3.4	73	0.00	5.19
		----------	Amount	Calc.	%Drift		----------	
17	P	bis(2-chloroisopropyl)eth	50.000	49.236	1.5	76	0.00	5.18
		----------	AvgRF	CCRF	%Dev		----------	
18	P	Acetophenone	2.020	1.936	4.2	74	0.00	5.27
19	P	N-Nitroso-di-n-propylamin	0.790	0.787	0.4	72	0.00	5.30
20	P	3&4-Methylphenol	1.402	1.370	2.3	74	0.00	5.32
21	P	Hexachloroethane	0.668	0.648	3.0	74	0.00	5.34
22	I	Naphthalene-d8	1.000	1.000	0.0	76	0.00	6.00
23	S	Nitrobenzene-d5	0.424	0.417	1.7	75	-0.01	5.40
24	P	Nitrobenzene	0.401	0.392	2.2	75	-0.02	5.42
25	P	Isophorone	0.734	0.711	3.1	74	-0.01	5.62
26	P	2-Nitrophenol	0.208	0.207	0.5	75	0.00	5.69
27	P	2,4-Dimethylphenol	0.380	0.360	5.3	74	0.00	5.76
28	P	bis(2-Chloroethoxy)methan	0.417	0.408	2.2	75	0.00	5.82
29		Benzoic Acid	0.289	0.258	10.7	62	-0.02	5.89
30	P	2,4-Dichlorophenol	0.307	0.296	3.6	74	0.00	5.92
31		1,2,4-Trichlorobenzene	0.312	0.303	2.9	74	0.00	5.97
32	P	Naphthalene	1.031	1.033	-0.2	76	0.00	6.02
33	P	4-Chloroaniline	0.476	0.456	4.2	73	0.00	6.09

Continuing Calibration Summary

Job Number: FA23258 **Sample:** SX1833-ECC1826
Account: FPMRNYR FPM Remediations **Lab FileID:** X039475.D
Project: HM-AZ PBR Holloman AFB; Alamogordo, NM

34		2,6-Dichlorophenol	0.307	0.296	3.6	74	0.00	5.92
35	P	Hexachlorobutadiene	0.175	0.170	2.9	75	0.00	6.18
36	P	Caprolactam	0.124	0.121	2.4	73	-0.01	6.40
37	P	4-Chloro-3-methylphenol	0.332	0.323	2.7	73	0.00	6.55
38	P	2-Methylnaphthalene	0.732	0.725	1.0	76	0.00	6.62
39		1-Methylnaphthalene	0.650	0.642	1.2	76	0.00	6.71
40	P	1,2,4,5-Tetrachlorobenzen	0.305	0.298	2.3	74	0.00	6.80
41	I	Acenaphthene-d10	1.000	1.000	0.0	77	0.00	7.55
42	P	Hexachlorocyclopentadiene	0.358	0.338	5.6	68	0.00	6.82
43	P	2,4,6-Trichlorophenol	0.379	0.369	2.6	74	0.00	6.91
44	P	2,4,5-Trichlorophenol	0.403	0.382	5.2	73	0.00	6.96
45	S	2-Fluorobiphenyl	1.356	1.312	3.2	73	0.00	6.97
46	P	1,1'-Biphenyl	1.524	1.543	-1.2	78	0.00	7.04
47	P	2-Chloronaphthalene	1.178	1.144	2.9	74	0.00	7.04
48	P	2-Nitroaniline	0.441	0.440	0.2	73	0.00	7.17
49		p-Dinitrobenzene	0.266	0.266	0.0	72	0.00	7.27
50	P	Dimethylphthalate	1.326	1.297	2.2	74	0.00	7.36
51		m-Dinitrobenzene	0.224	0.218	2.7	73	0.00	7.37
52	P	2,6-Dinitrotoluene	0.311	0.298	4.2	73	0.00	7.42
53		o-Dinitrobenzene	0.276	0.276	0.0	73	0.00	7.48
54	P	Acenaphthylene	1.854	1.847	0.4	76	0.00	7.41
55	P	3-Nitroaniline	0.445	0.439	1.3	73	0.00	7.17
56	P	Acenaphthene	1.193	1.175	1.5	74	0.00	7.58
		----------	Amount	Calc.	%Drift	----------		
57	P	2,4-Dinitrophenol	50.000	42.075	15.8	60	0.00	7.62
58	P	4-Nitrophenol	50.000	47.497	5.0	69	0.00	7.75
		----------	AvgRF	CCRF	%Dev	----------		
59	P	Dibenzofuran	1.665	1.634	1.9	74	0.00	7.72
60	P	2,4-Dinitrotoluene	0.423	0.404	4.5	71	0.01	7.76
61	P	2,3,5,6-Tetrachlorophenol	0.318	0.309	2.8	72	0.00	7.84
62	P	2,3,4,6-Tetrachlorophenol	0.311	0.302	2.9	72	0.00	7.87
63	P	Diethylphthalate	1.369	1.323	3.4	73	0.00	7.99
64	P	Fluorene	1.364	1.366	-0.1	76	0.00	8.02
65	P	4-Chlorophenyl-phenylethe	0.617	0.605	1.9	73	0.00	8.02
66	P	4-Nitroaniline	0.332	0.328	1.2	69	0.00	8.09
67	I	Phenanthrene-d10	1.000	1.000	0.0	75	0.00	8.84
		----------	Amount	Calc.	%Drift	----------		
68	P	4,6-Dinitro-2-methylpheno	50.000	47.105	5.8	70	0.00	8.12
		----------	AvgRF	CCRF	%Dev	----------		
69	P	Diphenylamine	0.742	0.732	1.3	74	0.00	8.14
70	P	n-Nitrosodiphenylamine	0.619	0.610	1.5	74	0.00	8.14
71		1,2-Diphenylhydrazine	0.906	0.885	2.3	74	0.00	8.16
72	S	2,4,6-Tribromophenol	0.090	0.089	1.1	76	0.00	8.25
73	P	4-Bromophenyl-phenylether	0.209	0.205	1.9	75	0.00	8.45
74	P	Hexachlorobenzene	0.201	0.201	0.0	76	0.00	8.58
75		Simazine	0.127	0.075	40.9	44#	0.00	8.62
76	P	Atrazine	0.248	0.247	0.4	75	0.00	8.65
77	P	Pentachlorophenol	0.130	0.130	0.0	71	0.00	8.74
78	P	Phenanthrene	1.175	1.170	0.4	75	0.00	8.86
79	P	Anthracene	1.172	1.174	-0.2	74	0.00	8.90
80	P	Carbazole	1.108	1.109	-0.1	73	0.00	9.05
81	P	Di-n-butylphthalate	1.379	1.387	-0.6	76	0.02	9.42
82	P	Fluoranthene	1.215	1.209	0.5	74	0.01	9.91

Continuing Calibration Summary

Job Number: FA23258 **Sample:** SX1833-ECC1826
Account: FPMRNYR FPM Remediations **Lab FileID:** X039475.D
Project: HM-AZ PBR Holloman AFB; Alamogordo, NM

83	I	Chrysene-d12	1.000	1.000	0.0	68	0.04	11.46
84		Benzidine	0.587	0.466	20.6	49#	0.02	10.04
85	P	Pyrene	1.479	1.586	-7.2	76	0.04	10.11
86	S	Terphenyl-d14	0.914	0.972	-6.3	73	0.05	10.28
87	P	Butylbenzylphthalate	0.706	0.732	-3.7	72	0.04	10.84
88	P	3,3'-Dichlorobenzidine	0.319	0.340	-6.6	67	0.05	11.45
89	P	Benzo[a]anthracene	1.154	1.219	-5.6	71	0.04	11.44
90	P	Chrysene	1.095	1.171	-6.9	73	0.03	11.49
91	P	bis(2-Ethylhexyl)phthalat	0.935	0.987	-5.6	73	0.07	11.65
92	I	Perylene-d12	1.000	1.000	0.0	68	0.11	13.77
93	P	Di-n-octylphthalate	2.049	2.210	-7.9	71	0.16	12.66
94	P	Benzo[b]fluoranthene	1.282	1.374	-7.2	70	0.10	13.10
95	P	Benzo[k]fluoranthene	1.315	1.425	-8.4	71	0.09	13.14
96	P	Benzo[a]pyrene	1.150	1.267	-10.2	69	0.09	13.65
		----------	Amount	Calc.	%Drift	----------		
97	P	Indeno[1,2,3-cd]pyrene	50.000	53.044	-6.1	72	0.12	15.81
98	P	Dibenz[a,h]anthracene	50.000	51.678	-3.4	70	0.15	15.91
		----------	AvgRF	CCRF	%Dev	----------		
99	P	Benzo[g,h,i]perylene	0.855	0.903	-5.6	67	0.19	16.33

(#) = Out of Range SPCC's out = 0 CCC's out = 0
x039252.D 8270d_03302.m Thu Apr 09 13:46:13 2015

Southeast ACCUTEST LABORATORIES

GC/MS Semi-volatiles

Raw Data

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\sl3631\
Data File : L0681750.D
Acq On : 6 Apr 2015 8:32 pm
Operator : marthav
Sample : fa23258-1
Misc : op55582,sl3631,30.2,,,1,1,soil
ALS Vial : 22 Sample Multiplier: 1

Quant Time: Apr 07 08:11:56 2015
Quant Method : C:\msdchem\1\METHODS\8270da0402.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Thu Apr 02 15:27:09 2015
Response via : Initial Calibration

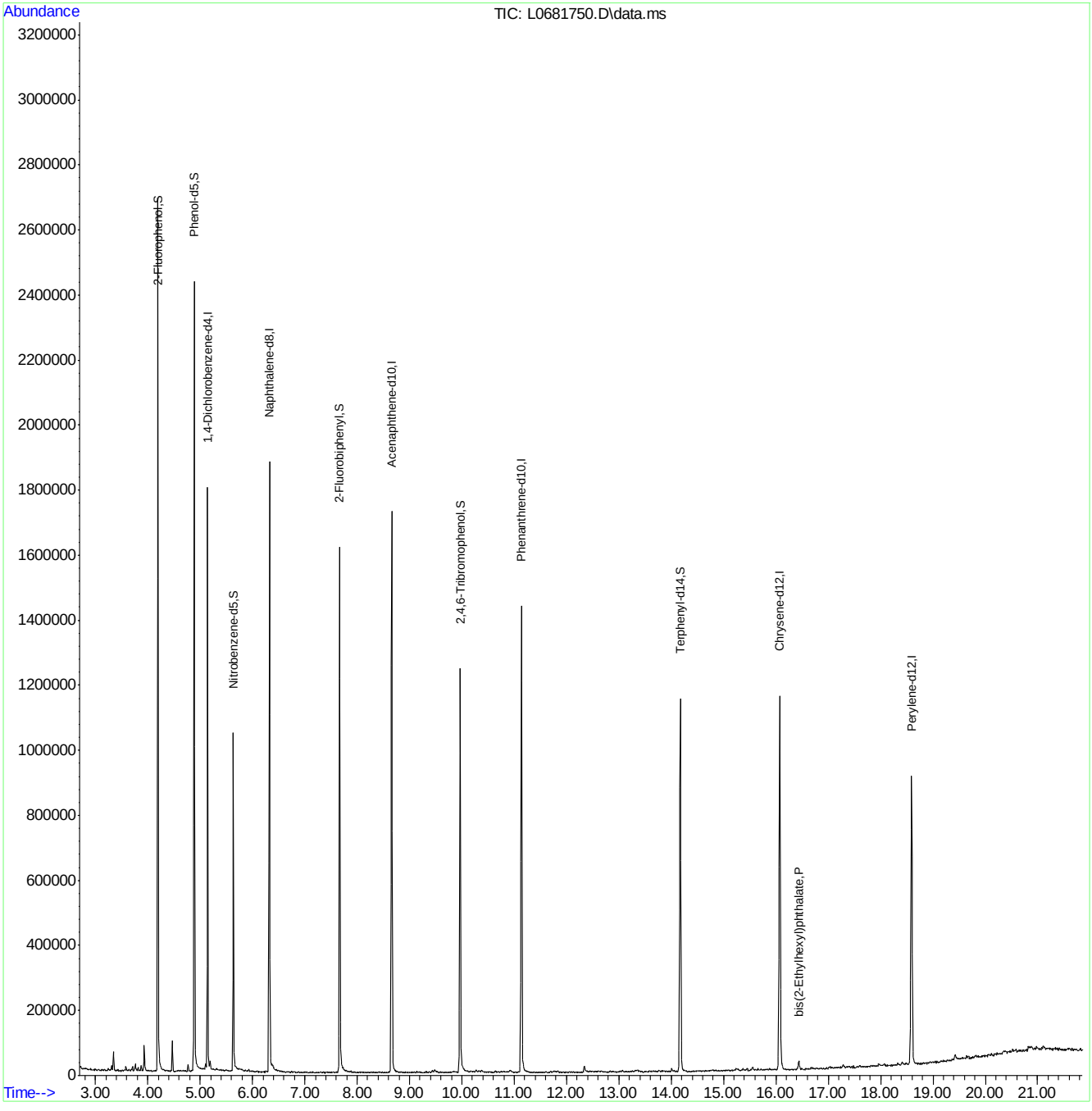
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	5.143	152	237565	40.00	ppm	0.00
22) Naphthalene-d8	6.324	136	841712	40.00	ppm	0.00
42) Acenaphthene-d10	8.658	164	487436	40.00	ppm	0.00
68) Phenanthrene-d10	11.137	188	723560	40.00	ppm	0.00
84) Chrysene-d12	16.073	240	603850	40.00	ppm	0.00
93) Perylene-d12	18.589	264	511109	40.00	ppm	0.00
System Monitoring Compounds						
7) 2-Fluorophenol	4.192	112	586048	62.74	ppm	0.00
Spiked Amount 100.000	Range 40 - 102		Recovery = 62.74%			
9) Phenol-d5	4.887	99	782725	78.20	ppm	0.00
Spiked Amount 100.000	Range 41 - 100		Recovery = 78.20%			
23) Nitrobenzene-d5	5.635	82	324449	34.91	ppm	0.00
Spiked Amount 50.000	Range 40 - 105		Recovery = 69.82%			
46) 2-Fluorobiphenyl	7.665	172	588569	36.91	ppm	0.00
Spiked Amount 50.000	Range 43 - 107		Recovery = 73.82%			
73) 2,4,6-Tribromophenol	9.967	330	220672	82.88	ppm	-0.01
Spiked Amount 100.000	Range 42 - 108		Recovery = 82.88%			
87) Terphenyl-d14	14.171	244	573512	40.98	ppm	0.00
Spiked Amount 50.000	Range 45 - 119		Recovery = 81.96%			
Target Compounds						Qvalue
92) bis(2-Ethylhexyl)phtha...	16.436	149	8781	0.75	ppm	90

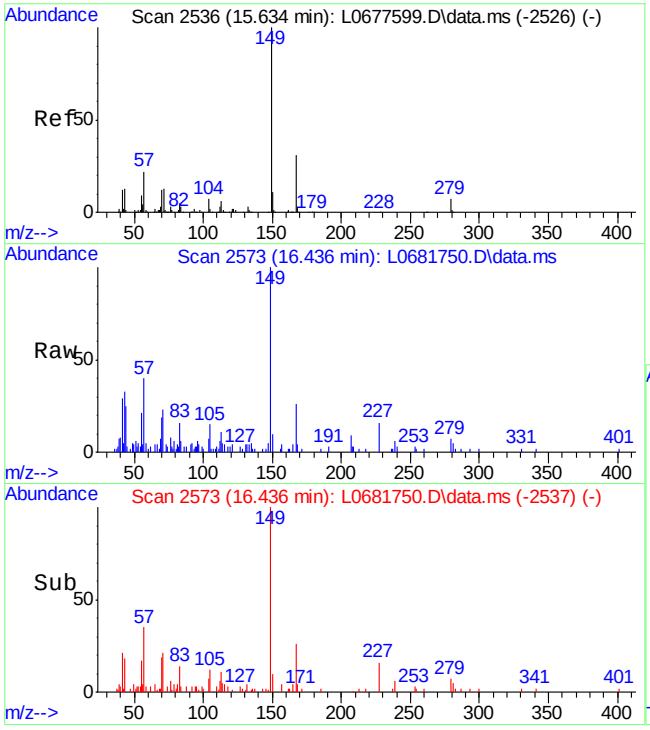
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\sl3631\
Data File : L0681750.D
Acq On : 6 Apr 2015 8:32 pm
Operator : marthav
Sample : fa23258-1
Misc : op55582,sl3631,30.2,,,1,1,soil
ALS Vial : 22 Sample Multiplier: 1

Quant Time: Apr 07 08:11:56 2015
Quant Method : C:\msdchem\1\METHODS\8270da0402.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Thu Apr 02 15:27:09 2015
Response via : Initial Calibration

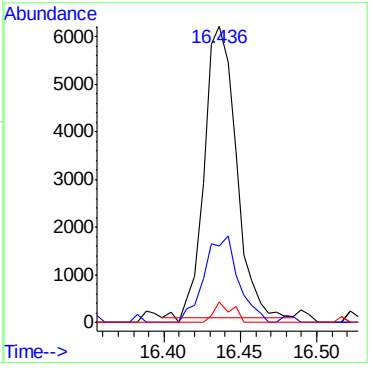




#92
bis(2-Ethylhexyl)phthalate
Concen: 0.75 ppm
RT: 16.436 min Scan# 2573
Delta R.T. -0.008 min
Lab File: L0681750.D
Acq: 6 Apr 2015 8:32 pm

Tgt Ion:149 Resp: 8781

Ion	Ratio	Lower	Upper
149	100		
167	25.1	1.1	61.1
279	7.1	0.0	34.6



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\sl3631\
Data File : L0681751.D
Acq On : 6 Apr 2015 8:59 pm
Operator : marthav
Sample : fa23258-3
Misc : op55582,sl3631,29.8,,,1,1,soil
ALS Vial : 23 Sample Multiplier: 1

Quant Time: Apr 07 08:12:12 2015
Quant Method : C:\msdchem\1\METHODS\8270da0402.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Thu Apr 02 15:27:09 2015
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	5.140	152	248708	40.00	ppm	0.00
22) Naphthalene-d8	6.321	136	913169	40.00	ppm	0.00
42) Acenaphthene-d10	8.660	164	506386	40.00	ppm	0.00
68) Phenanthrene-d10	11.134	188	770800	40.00	ppm	-0.01
84) Chrysene-d12	16.070	240	684403	40.00	ppm	-0.01
93) Perylene-d12	18.591	264	565769	40.00	ppm	0.00

System Monitoring Compounds

7) 2-Fluorophenol	4.194	112	594270	60.77	ppm	0.00
Spiked Amount 100.000	Range 40 - 102		Recovery = 60.77%			
9) Phenol-d5	4.883	99	785304	74.94	ppm	0.00
Spiked Amount 100.000	Range 41 - 100		Recovery = 74.94%			
23) Nitrobenzene-d5	5.631	82	334732	33.20	ppm	0.00
Spiked Amount 50.000	Range 40 - 105		Recovery = 66.40%			
46) 2-Fluorobiphenyl	7.667	172	590282	35.63	ppm	0.00
Spiked Amount 50.000	Range 43 - 107		Recovery = 71.26%			
73) 2,4,6-Tribromophenol	9.969	330	225646	79.55	ppm	-0.01
Spiked Amount 100.000	Range 42 - 108		Recovery = 79.55%			
87) Terphenyl-d14	14.173	244	645279	40.68	ppm	0.00
Spiked Amount 50.000	Range 45 - 119		Recovery = 81.36%			

Target Compounds						Qvalue
92) bis(2-Ethylhexyl)phtha...	16.433	149	10001	0.75	ppm	96

(#) = qualifier out of range (m) = manual integration (+) = signals summed

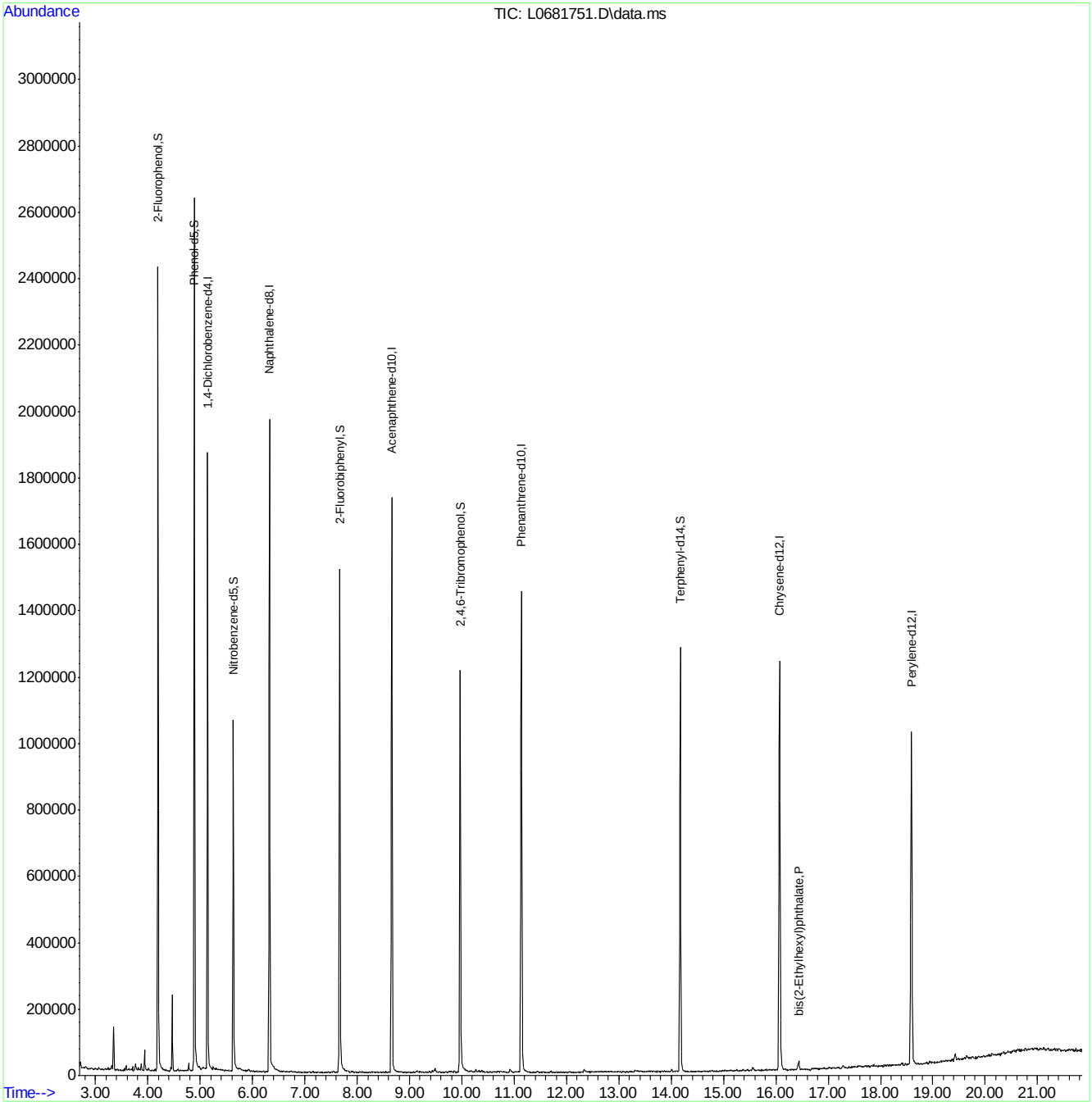
7.1.2

7

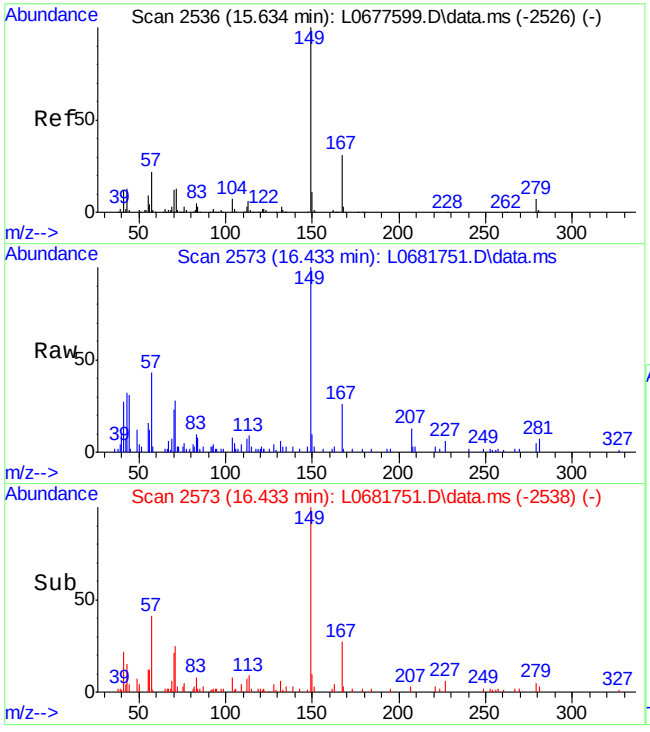
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\sl3631\
Data File : L0681751.D
Acq On : 6 Apr 2015 8:59 pm
Operator : marthav
Sample : fa23258-3
Misc : op55582,sl3631,29.8,,,1,1,soil
ALS Vial : 23 Sample Multiplier: 1

Quant Time: Apr 07 08:12:12 2015
Quant Method : C:\msdchem\1\METHODS\8270da0402.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Thu Apr 02 15:27:09 2015
Response via : Initial Calibration



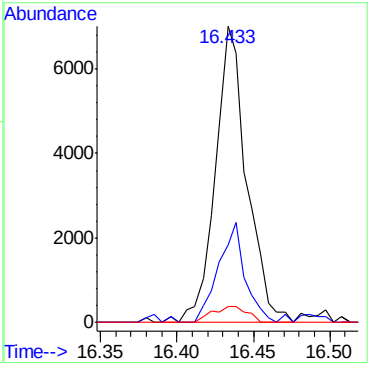
ACCUTEST LABORATORIES FA23258



#92
bis(2-Ethylhexyl)phthalate
Concen: 0.75 ppm
RT: 16.433 min Scan# 2573
Delta R.T. -0.011 min
Lab File: L0681751.D
Acq: 6 Apr 2015 8:59 pm

Tgt Ion:149 Resp: 10001

Ion	Ratio	Lower	Upper
149	100		
167	28.7	1.1	61.1
279	5.3	0.0	34.6



7.1.2

7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\sl3631\
Data File : L0681752.D
Acq On : 6 Apr 2015 9:27 pm
Operator : marthav
Sample : fa23258-5
Misc : op55582,sl3631,29.8,,,1,1,soil
ALS Vial : 24 Sample Multiplier: 1

Quant Time: Apr 07 08:12:38 2015
Quant Method : C:\msdchem\1\METHODS\8270da0402.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Thu Apr 02 15:27:09 2015
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	5.142	152	320271	40.00	ppm	0.00
22) Naphthalene-d8	6.323	136	1156007	40.00	ppm	0.00
42) Acenaphthene-d10	8.657	164	665972	40.00	ppm	0.00
68) Phenanthrene-d10	11.136	188	1025433	40.00	ppm	0.00
84) Chrysene-d12	16.078	240	919605	40.00	ppm	0.00
93) Perylene-d12	18.594	264	757741	40.00	ppm	0.00

System Monitoring Compounds

7) 2-Fluorophenol	4.197	112	837643	66.52	ppm	0.00
Spiked Amount 100.000	Range 40 - 102		Recovery = 66.52%			
9) Phenol-d5	4.886	99	1084335	80.36	ppm	0.00
Spiked Amount 100.000	Range 41 - 100		Recovery = 80.36%			
23) Nitrobenzene-d5	5.634	82	480607	37.65	ppm	0.00
Spiked Amount 50.000	Range 40 - 105		Recovery = 75.30%			
46) 2-Fluorobiphenyl	7.664	172	825745	37.90	ppm	0.00
Spiked Amount 50.000	Range 43 - 107		Recovery = 75.80%			
73) 2,4,6-Tribromophenol	9.972	330	328503	87.06	ppm	0.00
Spiked Amount 100.000	Range 42 - 108		Recovery = 87.06%			
87) Terphenyl-d14	14.176	244	911386	42.76	ppm	0.00
Spiked Amount 50.000	Range 45 - 119		Recovery = 85.52%			

Target Compounds						Qvalue
92) bis(2-Ethylhexyl)phtha...	16.441	149	7548	0.42	ppm	82

(#) = qualifier out of range (m) = manual integration (+) = signals summed

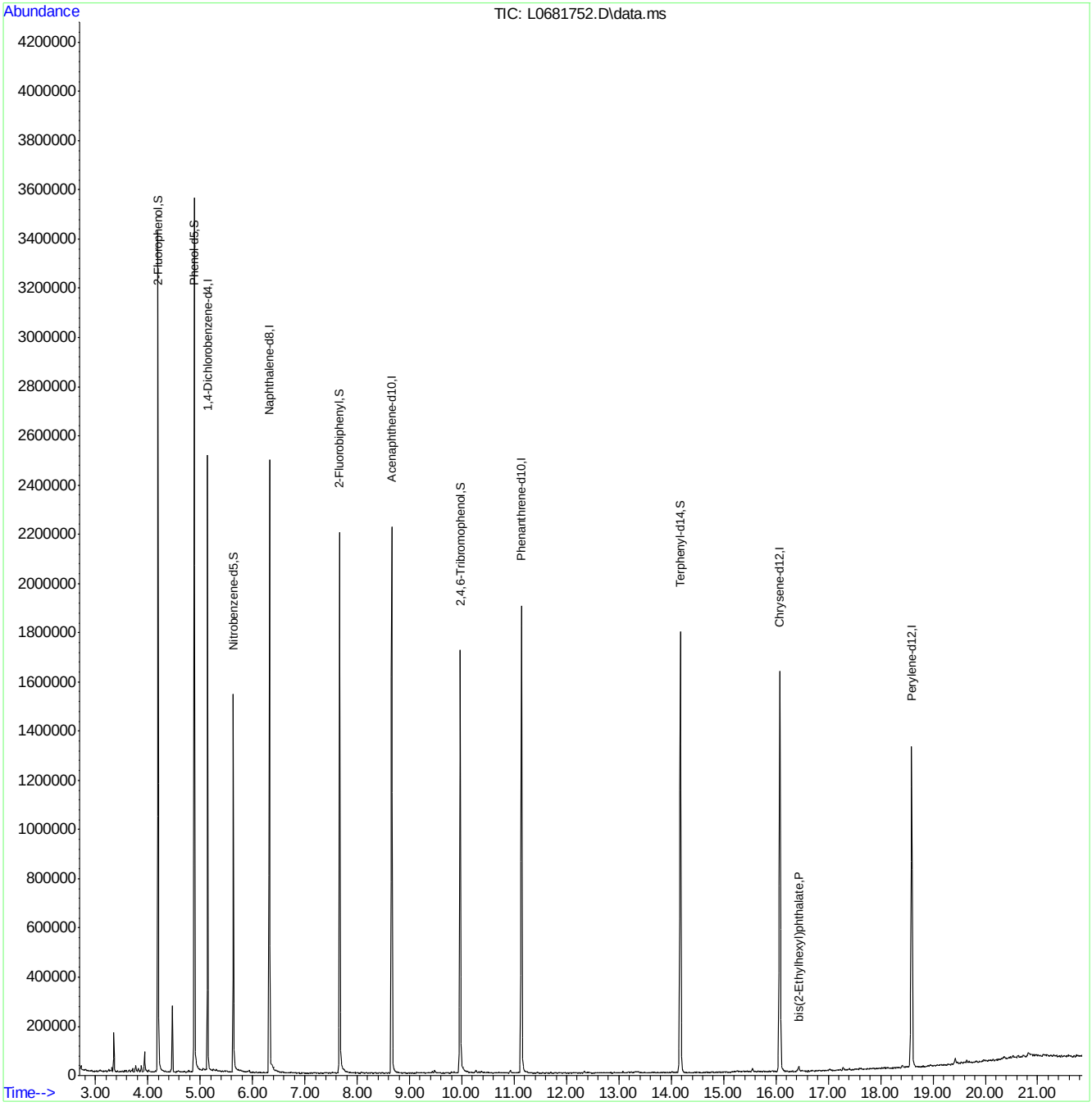
7.1.3

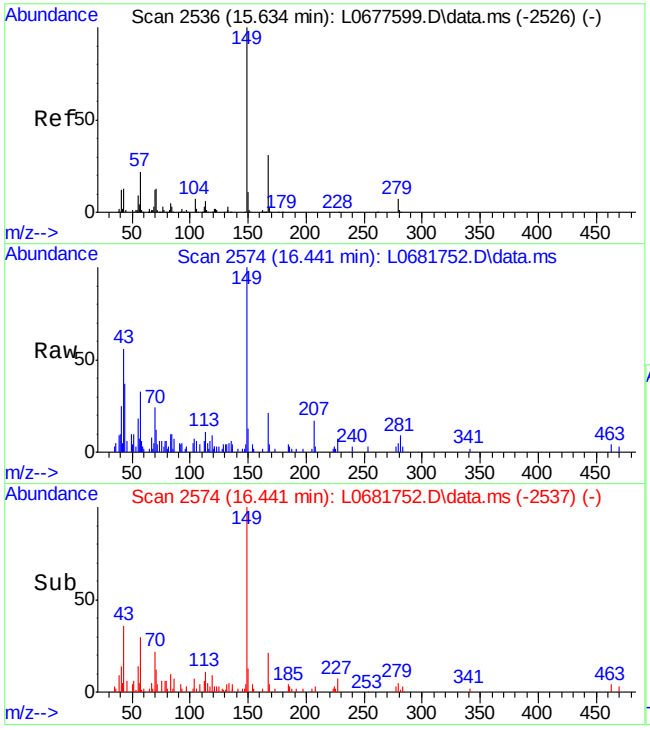
7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\sl3631\
Data File : L0681752.D
Acq On : 6 Apr 2015 9:27 pm
Operator : marthav
Sample : fa23258-5
Misc : op55582,sl3631,29.8,,,1,1,soil
ALS Vial : 24 Sample Multiplier: 1

Quant Time: Apr 07 08:12:38 2015
Quant Method : C:\msdchem\1\METHODS\8270da0402.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Thu Apr 02 15:27:09 2015
Response via : Initial Calibration

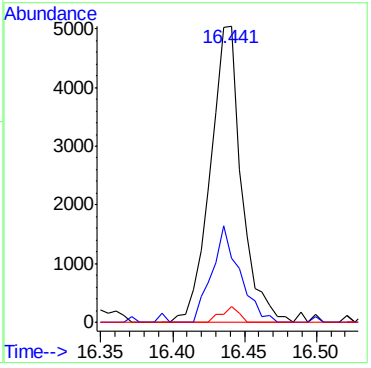




#92
bis(2-Ethylhexyl)phthalate
Concen: 0.42 ppm
RT: 16.441 min Scan# 2574
Delta R.T. -0.003 min
Lab File: L0681752.D
Acq: 6 Apr 2015 9:27 pm

Tgt Ion:149 Resp: 7548

Ion	Ratio	Lower	Upper
149	100		
167	19.9	1.1	61.1
279	5.3	0.0	34.6



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\sl3632\
Data File : L0681762.D
Acq On : 7 Apr 2015 1:58 pm
Operator : marthav
Sample : fa23258-7
Misc : op55582,sl3632,29.7,,,1,1,soil
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Apr 08 09:40:42 2015
Quant Method : C:\msdchem\1\METHODS\8270da0402.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Thu Apr 02 15:27:09 2015
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	5.126	152	427209	40.00 ppm	-0.02
22) Naphthalene-d8	6.302	136	1410620	40.00 ppm	-0.02
42) Acenaphthene-d10	8.641	164	816267	40.00 ppm	-0.02
68) Phenanthrene-d10	11.120	188	1147645	40.00 ppm	-0.02
84) Chrysene-d12	16.056	240	710408	40.00 ppm	-0.02
93) Perylene-d12	18.578	264	544361	40.00 ppm	-0.02

System Monitoring Compounds					
7) 2-Fluorophenol	4.186	112	893169	53.17 ppm	0.00
Spiked Amount 100.000	Range 40 - 102		Recovery = 53.17%		
9) Phenol-d5	4.875	99	1154230	64.13 ppm	-0.01
Spiked Amount 100.000	Range 41 - 100		Recovery = 64.13%		
23) Nitrobenzene-d5	5.618	82	514406	33.03 ppm	-0.02
Spiked Amount 50.000	Range 40 - 105		Recovery = 66.06%		
46) 2-Fluorobiphenyl	7.648	172	901036	33.74 ppm	-0.02
Spiked Amount 50.000	Range 43 - 107		Recovery = 67.48%		
73) 2,4,6-Tribromophenol	9.950	330	347802	82.36 ppm	-0.03
Spiked Amount 100.000	Range 42 - 108		Recovery = 82.36%		
87) Terphenyl-d14	14.155	244	681384	41.38 ppm	-0.02
Spiked Amount 50.000	Range 45 - 119		Recovery = 82.76%		

Target Compounds					Qvalue
66) Diethylphthalate	9.453	149	14443	0.54 ppm	94
82) Di-n-butylphthalate	12.413	149	5666	0.15 ppm	91
92) bis(2-Ethylhexyl)phtha...	16.420	149	10573	0.77 ppm	98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

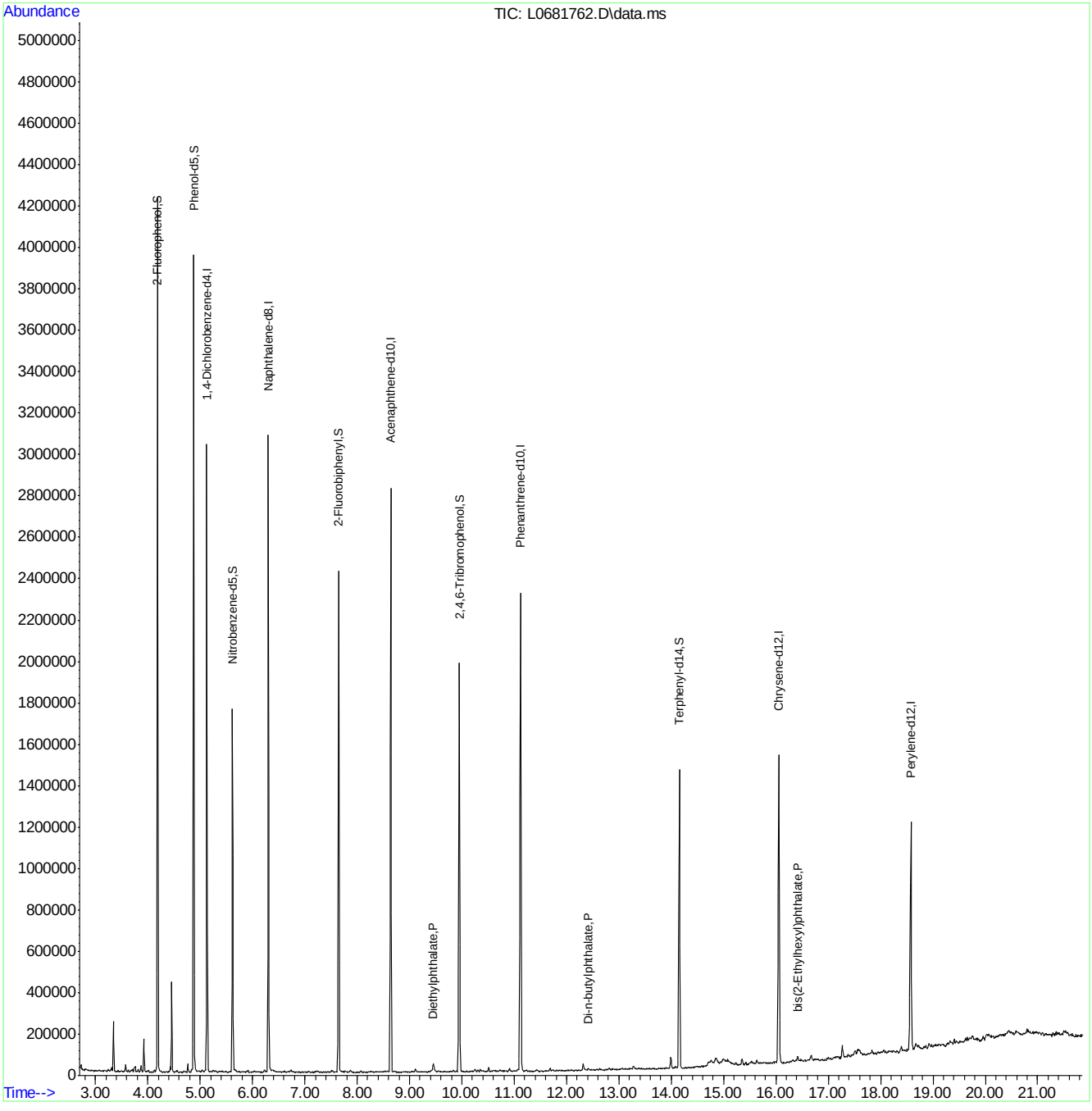
7.1.4

7

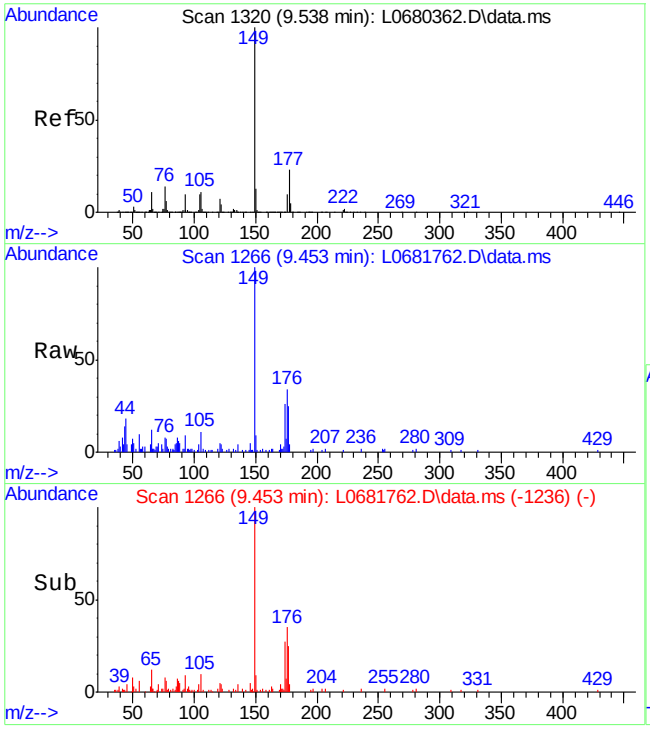
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\sl3632\
Data File : L0681762.D
Acq On : 7 Apr 2015 1:58 pm
Operator : marthav
Sample : fa23258-7
Misc : op55582,sl3632,29.7,,,1,1,soil
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Apr 08 09:40:42 2015
Quant Method : C:\msdchem\1\METHODS\8270da0402.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Thu Apr 02 15:27:09 2015
Response via : Initial Calibration



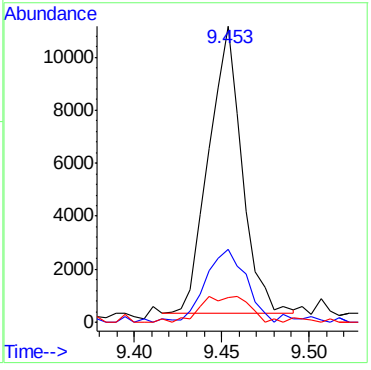
8270da0402.m Wed Apr 08 10:13:29 2015 Page: 2

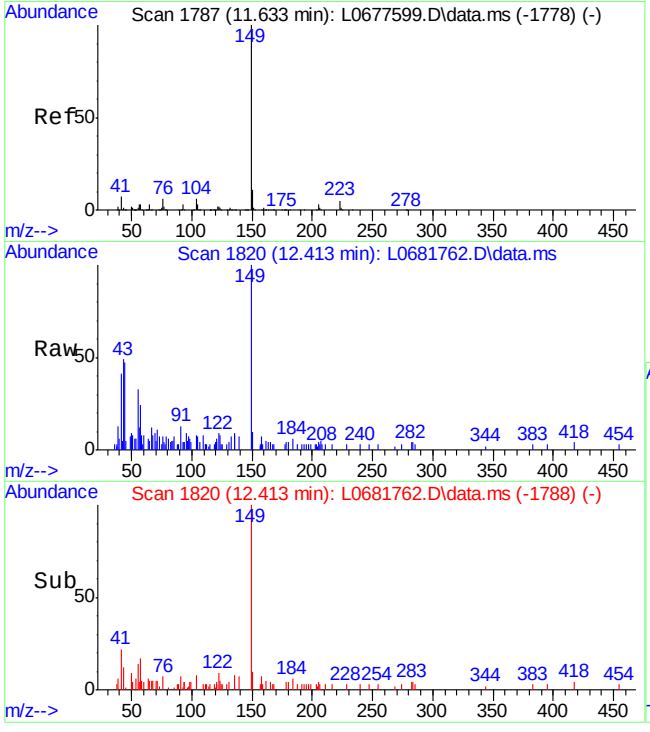


#66
Diethylphthalate
Concen: 0.54 ppm
RT: 9.453 min Scan# 1266
Delta R.T. -0.041 min
Lab File: L0681762.D
Acq: 7 Apr 2015 1:58 pm

Tgt Ion:149 Resp: 14443

Ion	Ratio	Lower	Upper
149	100		
177	24.3	0.0	55.1
150	7.4	0.0	43.3

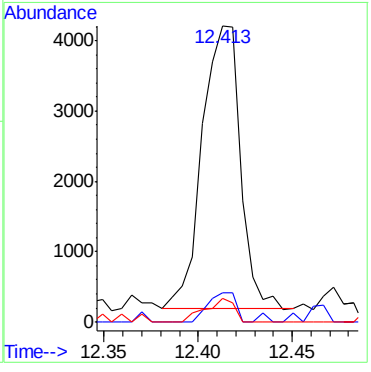


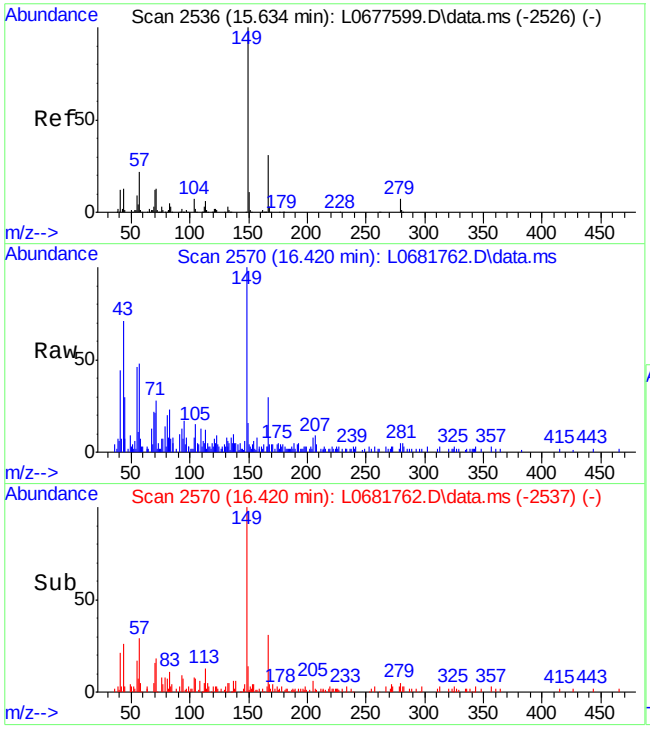


#82
Di-n-butylphthalate
Concen: 0.15 ppm
RT: 12.413 min Scan# 1820
Delta R.T. -0.030 min
Lab File: L0681762.D
Acq: 7 Apr 2015 1:58 pm

Tgt Ion:149 Resp: 5666

Ion	Ratio	Lower	Upper
149	100		
150	8.6	0.0	41.5
104	8.4	0.0	34.7

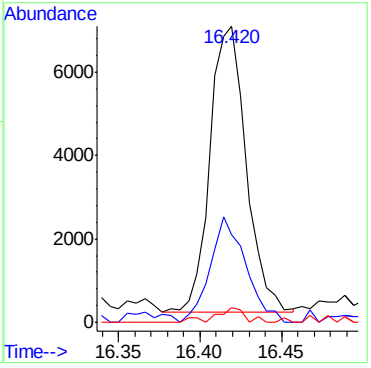




#92
bis(2-Ethylhexyl)phthalate
Concen: 0.77 ppm
RT: 16.420 min Scan# 2570
Delta R.T. -0.025 min
Lab File: L0681762.D
Acq: 7 Apr 2015 1:58 pm

Tgt Ion:149 Resp: 10573

Ion	Ratio	Lower	Upper
149	100		
167	30.3	1.1	61.1
279	5.4	0.0	34.6



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\sl3632\
Data File : L0681763.D
Acq On : 7 Apr 2015 2:26 pm
Operator : marthav
Sample : fa23258-8
Misc : op55582,sl3632,29.8,,,1,1,soil
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Apr 08 09:41:18 2015
Quant Method : C:\msdchem\1\METHODS\8270da0402.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Thu Apr 02 15:27:09 2015
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	5.129	152	410189	40.00	ppm	-0.02
22) Naphthalene-d8	6.304	136	1393422	40.00	ppm	-0.02
42) Acenaphthene-d10	8.639	164	830034	40.00	ppm	-0.03
68) Phenanthrene-d10	11.118	188	1158869	40.00	ppm	-0.03
84) Chrysene-d12	16.059	240	784062	40.00	ppm	-0.02
93) Perylene-d12	18.575	264	569130	40.00	ppm	-0.02

System Monitoring Compounds						
7) 2-Fluorophenol	4.184	112	922925	57.23	ppm	0.00
Spiked Amount 100.000	Range 40 - 102		Recovery = 57.23%			
9) Phenol-d5	4.873	99	1221409	70.67	ppm	-0.02
Spiked Amount 100.000	Range 41 - 100		Recovery = 70.67%			
23) Nitrobenzene-d5	5.615	82	547828	35.61	ppm	-0.02
Spiked Amount 50.000	Range 40 - 105		Recovery = 71.22%			
46) 2-Fluorobiphenyl	7.645	172	964582	35.52	ppm	-0.03
Spiked Amount 50.000	Range 43 - 107		Recovery = 71.04%			
73) 2,4,6-Tribromophenol	9.953	330	374537	87.83	ppm	-0.03
Spiked Amount 100.000	Range 42 - 108		Recovery = 87.83%			
87) Terphenyl-d14	14.157	244	786258	43.27	ppm	-0.02
Spiked Amount 50.000	Range 45 - 119		Recovery = 86.54%			

Target Compounds						Qvalue
66) Diethylphthalate	9.451	149	14121	0.52	ppm	90
92) bis(2-Ethylhexyl)phtha...	16.417	149	26844	1.76	ppm	97

(#) = qualifier out of range (m) = manual integration (+) = signals summed

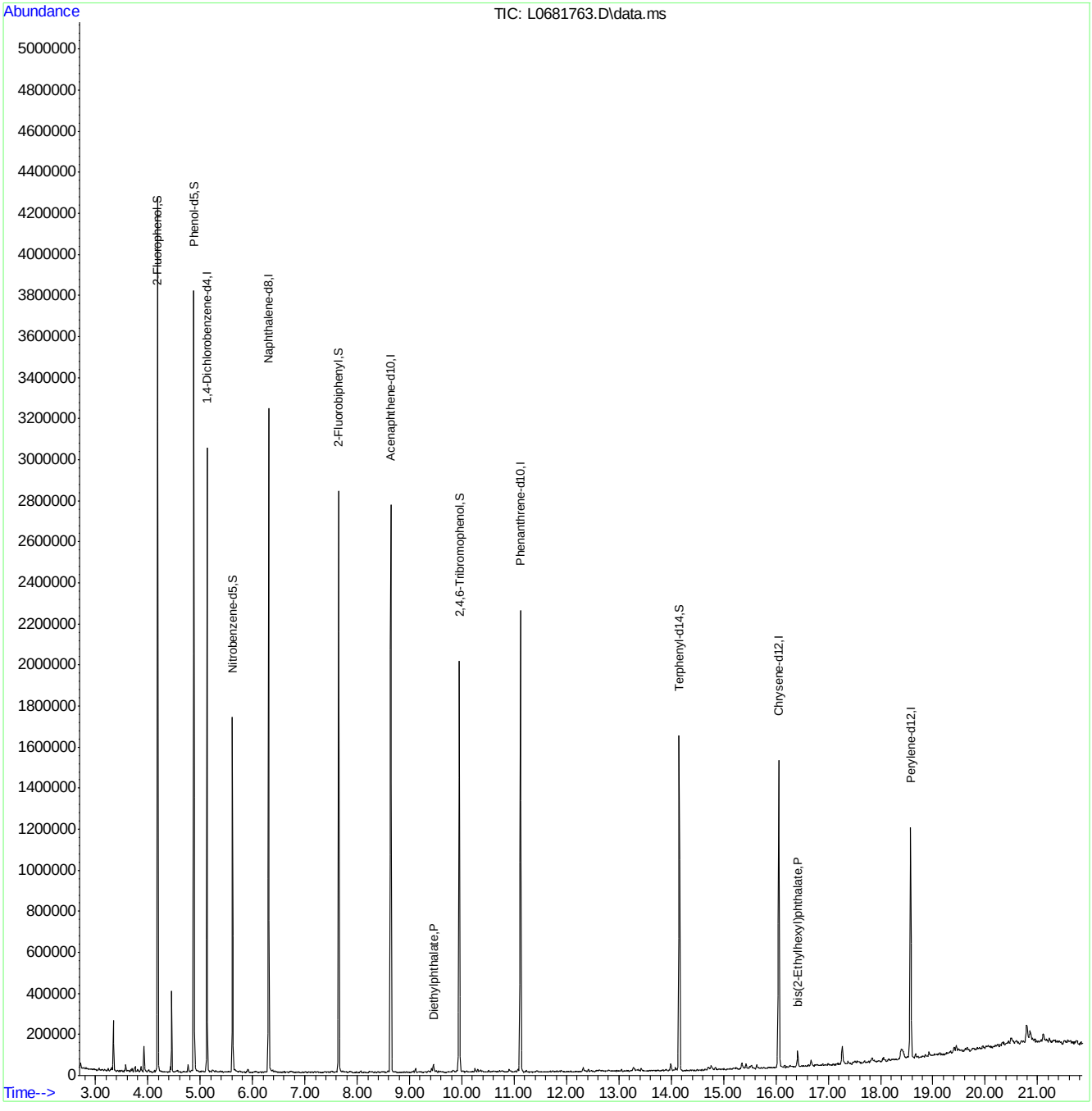
7.1.5

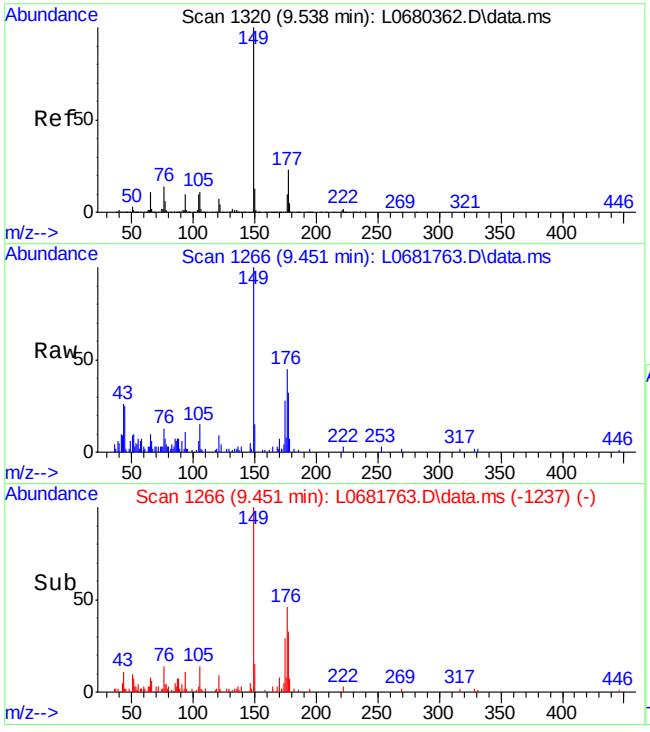
7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\sl3632\
Data File : L0681763.D
Acq On : 7 Apr 2015 2:26 pm
Operator : marthav
Sample : fa23258-8
Misc : op55582,sl3632,29.8,,,1,1,soil
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Apr 08 09:41:18 2015
Quant Method : C:\msdchem\1\METHODS\8270da0402.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Thu Apr 02 15:27:09 2015
Response via : Initial Calibration

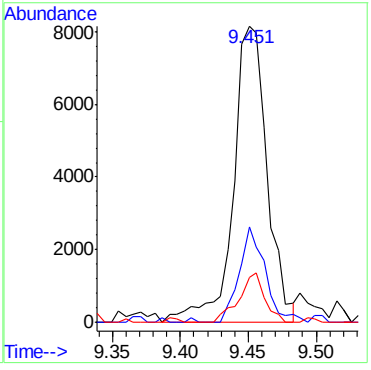


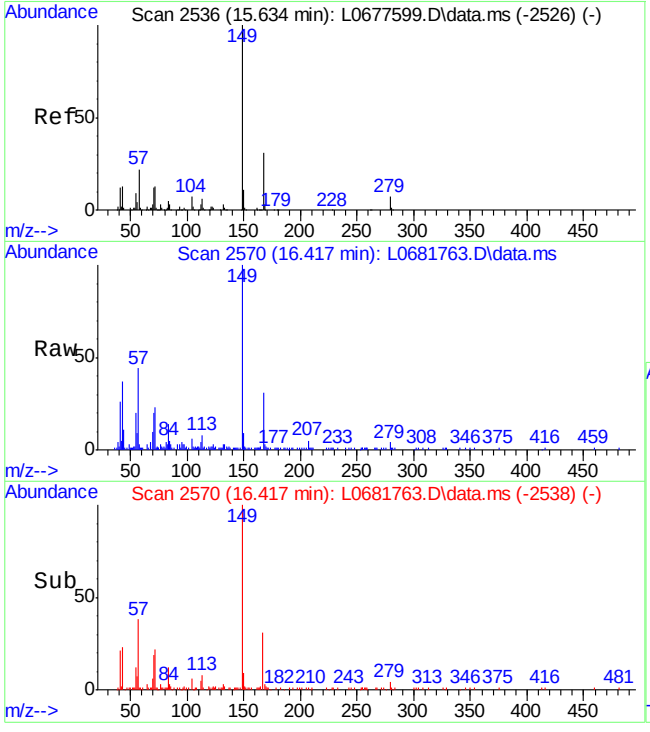


#66
Diethylphthalate
Concen: 0.52 ppm
RT: 9.451 min Scan# 1266
Delta R.T. -0.043 min
Lab File: L0681763.D
Acq: 7 Apr 2015 2:26 pm

Tgt Ion:149 Resp: 14121

Ion	Ratio	Lower	Upper
149	100		
177	31.4	0.0	55.1
150	15.5	0.0	43.3

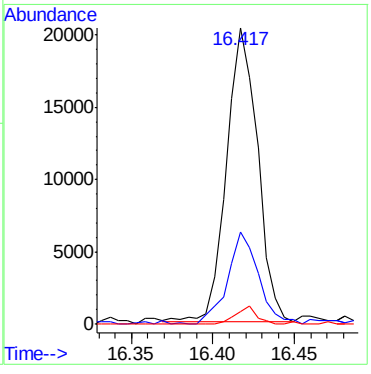




#92
bis(2-Ethylhexyl)phthalate
Concen: 1.76 ppm
RT: 16.417 min Scan# 2570
Delta R.T. -0.027 min
Lab File: L0681763.D
Acq: 7 Apr 2015 2:26 pm

Tgt Ion:149 Resp: 26844

Ion	Ratio	Lower	Upper
149	100		
167	29.5	1.1	61.1
279	4.0	0.0	34.6



7.1.5

7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\sl3632\
Data File : L0681764.D
Acq On : 7 Apr 2015 2:53 pm
Operator : marthav
Sample : fa23258-10
Misc : op55582,sl3632,29.7,,,1,1,soil
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Apr 08 09:41:51 2015
Quant Method : C:\msdchem\1\METHODS\8270da0402.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Thu Apr 02 15:27:09 2015
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	5.129	152	411069	40.00	ppm	-0.02
22) Naphthalene-d8	6.304	136	1367740	40.00	ppm	-0.02
42) Acenaphthene-d10	8.639	164	822074	40.00	ppm	-0.03
68) Phenanthrene-d10	11.118	188	1154258	40.00	ppm	-0.03
84) Chrysene-d12	16.059	240	782083	40.00	ppm	-0.02
93) Perylene-d12	18.575	264	590812	40.00	ppm	-0.02

System Monitoring Compounds

7) 2-Fluorophenol	4.183	112	909446	56.27	ppm	0.00
Spiked Amount 100.000	Range 40 - 102		Recovery = 56.27%			
9) Phenol-d5	4.873	99	1171263	67.63	ppm	-0.02
Spiked Amount 100.000	Range 41 - 100		Recovery = 67.63%			
23) Nitrobenzene-d5	5.615	82	544105	36.03	ppm	-0.02
Spiked Amount 50.000	Range 40 - 105		Recovery = 72.06%			
46) 2-Fluorobiphenyl	7.645	172	916370	34.07	ppm	-0.03
Spiked Amount 50.000	Range 43 - 107		Recovery = 68.14%			
73) 2,4,6-Tribromophenol	9.953	330	387447	91.22	ppm	-0.03
Spiked Amount 100.000	Range 42 - 108		Recovery = 91.22%			
87) Terphenyl-d14	14.157	244	823026	45.40	ppm	-0.02
Spiked Amount 50.000	Range 45 - 119		Recovery = 90.80%			

Target Compounds						Qvalue
66) Diethylphthalate	9.451	149	14463	0.53	ppm	98
92) bis(2-Ethylhexyl)phtha...	16.417	149	11261	0.74	ppm	92

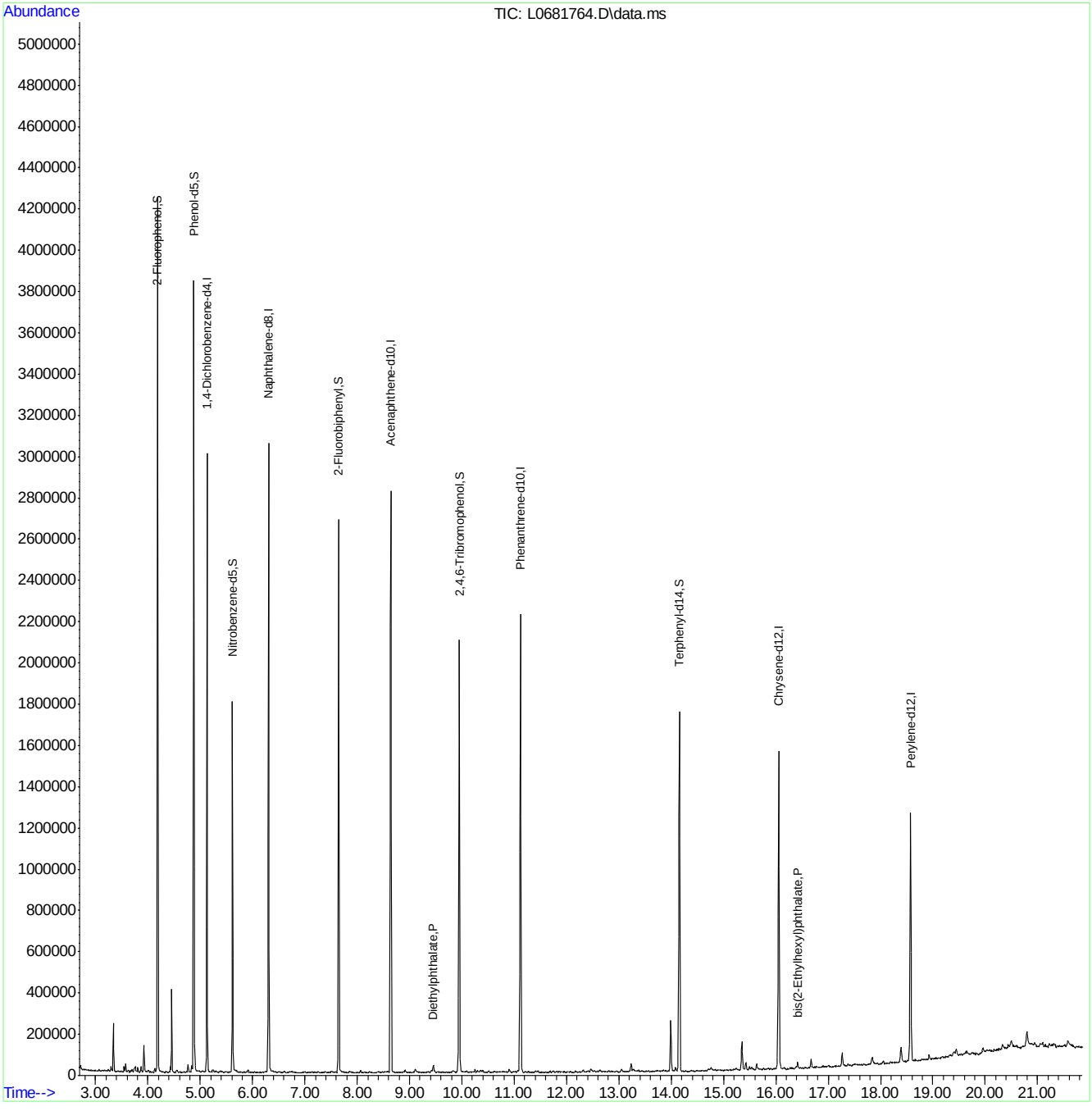
(#) = qualifier out of range (m) = manual integration (+) = signals summed

ACCUTEST LABORATORIES FA23258

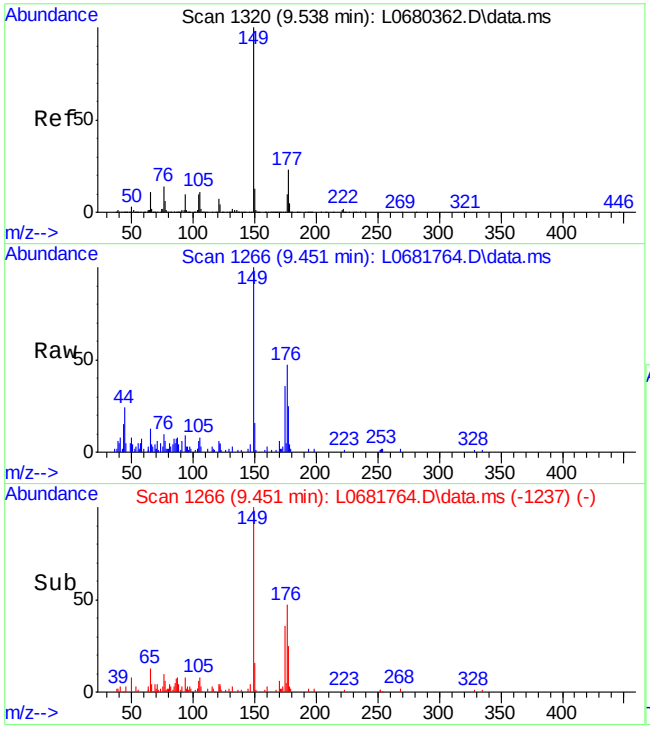
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\sl3632\
Data File : L0681764.D
Acq On : 7 Apr 2015 2:53 pm
Operator : marthav
Sample : fa23258-10
Misc : op55582,sl3632,29.7,,,1,1,soil
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Apr 08 09:41:51 2015
Quant Method : C:\msdchem\1\METHODS\8270da0402.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Thu Apr 02 15:27:09 2015
Response via : Initial Calibration



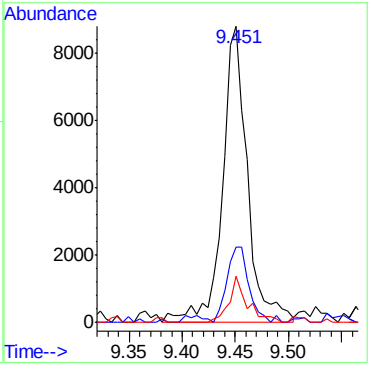
8270da0402.m Wed Apr 08 10:13:31 2015 Page: 2

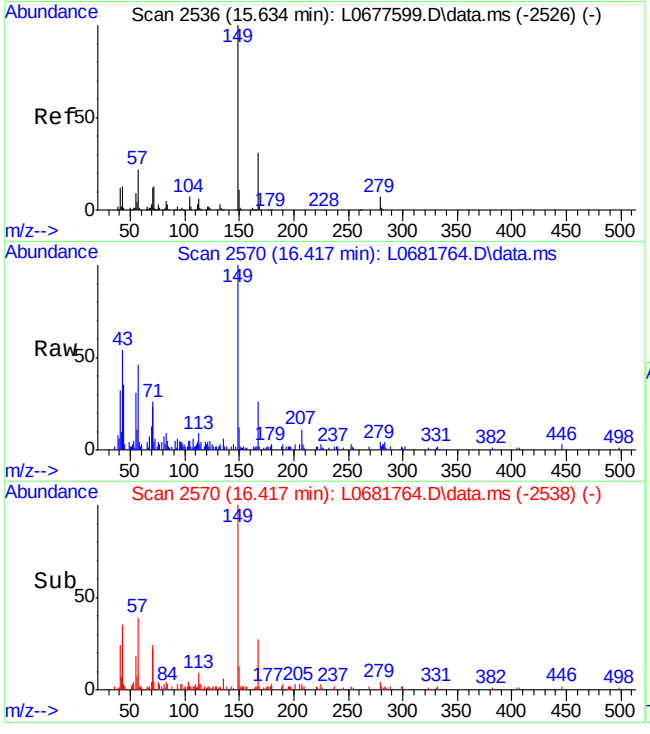


#66
Diethylphthalate
Concen: 0.53 ppm
RT: 9.451 min Scan# 1266
Delta R.T. -0.043 min
Lab File: L0681764.D
Acq: 7 Apr 2015 2:53 pm

Tgt Ion:149 Resp: 14463

Ion	Ratio	Lower	Upper
149	100		
177	24.3	0.0	55.1
150	14.0	0.0	43.3

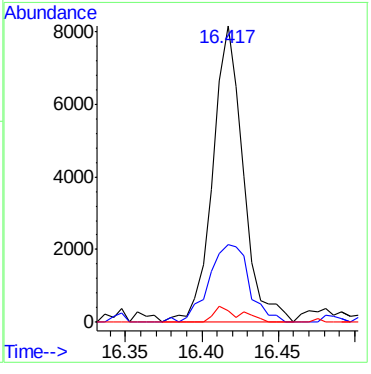




#92
bis(2-Ethylhexyl)phthalate
Concen: 0.74 ppm
RT: 16.417 min Scan# 2570
Delta R.T. -0.027 min
Lab File: L0681764.D
Acq: 7 Apr 2015 2:53 pm

Tgt Ion:149 Resp: 11261

Ion	Ratio	Lower	Upper
149	100		
167	26.1	1.1	61.1
279	3.8	0.0	34.6



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\sl3632\
Data File : L0681765.D
Acq On : 7 Apr 2015 3:21 pm
Operator : marthav
Sample : fa23258-12
Misc : op55582,sl3632,29.8,,,1,1,soil
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Apr 08 09:42:25 2015
Quant Method : C:\msdchem\1\METHODS\8270da0402.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Thu Apr 02 15:27:09 2015
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	5.127	152	436435	40.00	ppm	-0.02
22) Naphthalene-d8	6.303	136	1460683	40.00	ppm	-0.02
42) Acenaphthene-d10	8.642	164	868570	40.00	ppm	-0.02
68) Phenanthrene-d10	11.121	188	1234860	40.00	ppm	-0.02
84) Chrysene-d12	16.057	240	847808	40.00	ppm	-0.02
93) Perylene-d12	18.579	264	653811	40.00	ppm	-0.02

System Monitoring Compounds						
7) 2-Fluorophenol	4.182	112	998045	58.16	ppm	0.00
Spiked Amount 100.000	Range 40 - 102		Recovery = 58.16%			
9) Phenol-d5	4.876	99	1291576	70.24	ppm	-0.01
Spiked Amount 100.000	Range 41 - 100		Recovery = 70.24%			
23) Nitrobenzene-d5	5.619	82	608834	37.75	ppm	-0.02
Spiked Amount 50.000	Range 40 - 105		Recovery = 75.50%			
46) 2-Fluorobiphenyl	7.644	172	1024419	36.05	ppm	-0.03
Spiked Amount 50.000	Range 43 - 107		Recovery = 72.10%			
73) 2,4,6-Tribromophenol	9.951	330	408277	89.85	ppm	-0.03
Spiked Amount 100.000	Range 42 - 108		Recovery = 89.85%			
87) Terphenyl-d14	14.156	244	916211	46.63	ppm	-0.02
Spiked Amount 50.000	Range 45 - 119		Recovery = 93.26%			

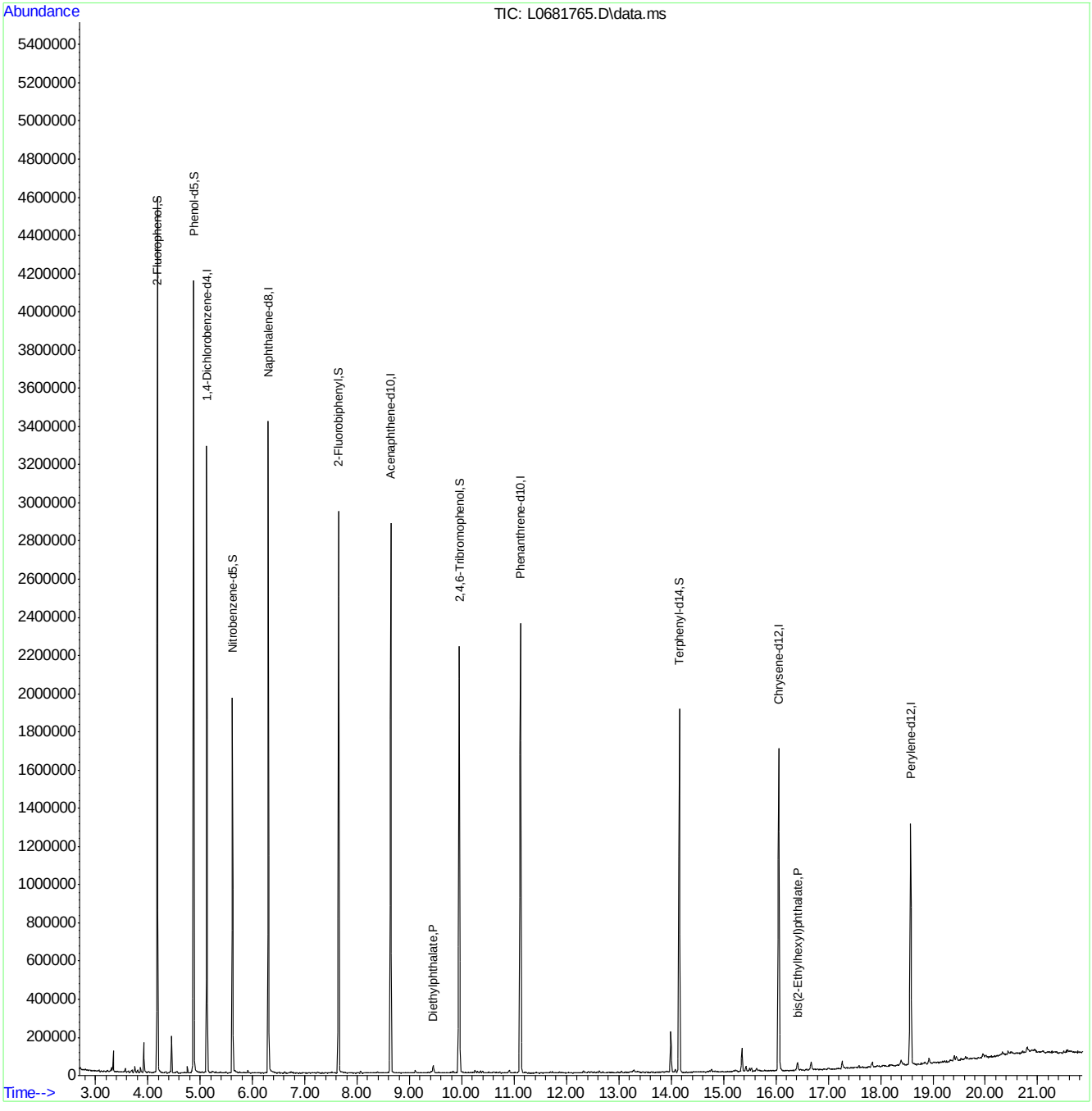
Target Compounds						Qvalue
66) Diethylphthalate	9.449	149	13154	0.46	ppm	93
92) bis(2-Ethylhexyl)phtha...	16.421	149	16650	1.01	ppm	92

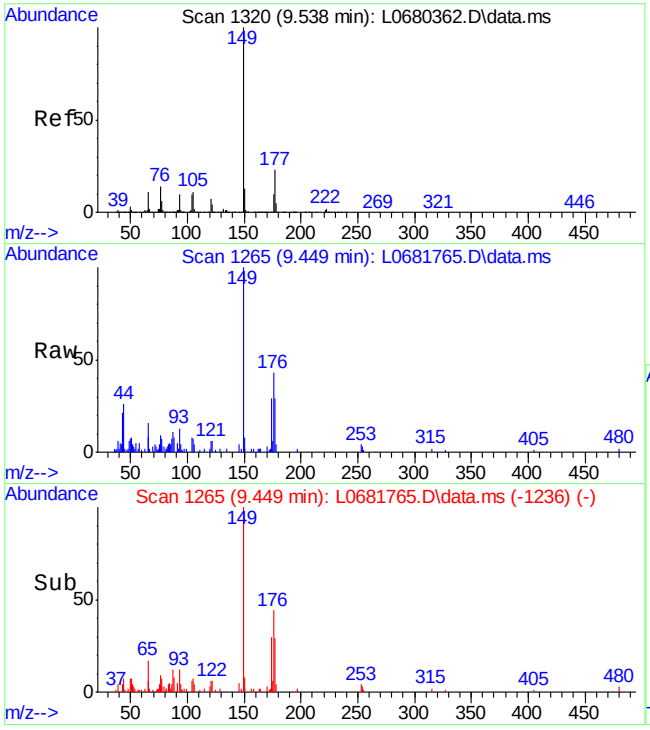
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\sl3632\
Data File : L0681765.D
Acq On : 7 Apr 2015 3:21 pm
Operator : marthav
Sample : fa23258-12
Misc : op55582,sl3632,29.8,,,1,1,soil
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Apr 08 09:42:25 2015
Quant Method : C:\msdchem\1\METHODS\8270da0402.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Thu Apr 02 15:27:09 2015
Response via : Initial Calibration

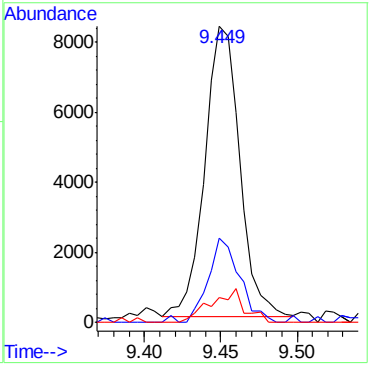


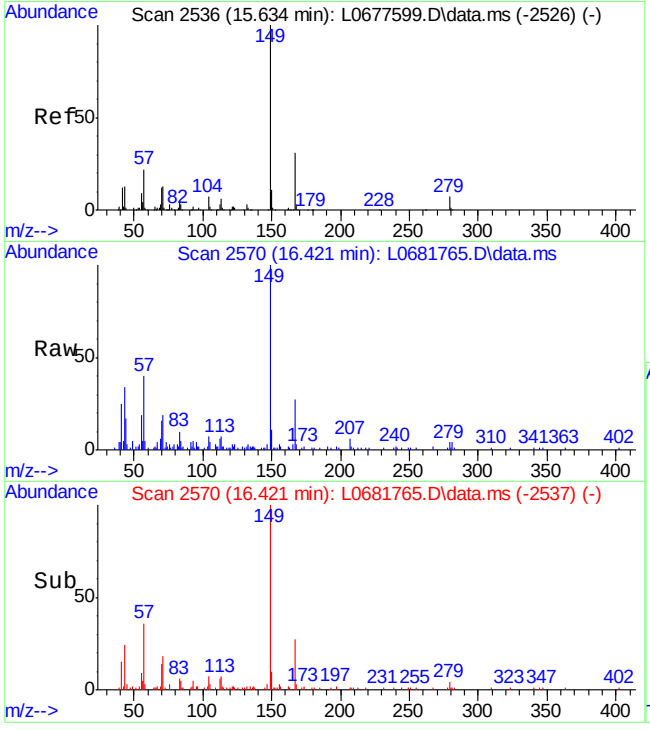


#66
Diethylphthalate
Concen: 0.46 ppm
RT: 9.449 min Scan# 1265
Delta R.T. -0.045 min
Lab File: L0681765.D
Acq: 7 Apr 2015 3:21 pm

Tgt Ion:149 Resp: 13154

Ion	Ratio	Lower	Upper
149	100		
177	28.1	0.0	55.1
150	10.1	0.0	43.3

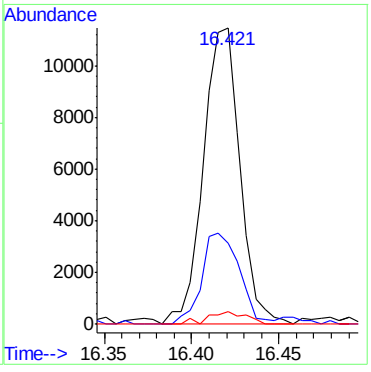




#92
bis(2-Ethylhexyl)phthalate
Concen: 1.01 ppm
RT: 16.421 min Scan# 2570
Delta R.T. -0.024 min
Lab File: L0681765.D
Acq: 7 Apr 2015 3:21 pm

Tgt Ion:149 Resp: 16650

Ion	Ratio	Lower	Upper
149	100		
167	26.3	1.1	61.1
279	4.2	0.0	34.6



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\sl3632\
Data File : L0681766.D
Acq On : 7 Apr 2015 3:48 pm
Operator : marthav
Sample : fa23258-15
Misc : op55582,sl3632,30.4,,,1,1,soil
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Apr 08 09:43:02 2015
Quant Method : C:\msdchem\1\METHODS\8270da0402.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Thu Apr 02 15:27:09 2015
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	5.128	152	397199	40.00	ppm	-0.02
22) Naphthalene-d8	6.303	136	1344376	40.00	ppm	-0.02
42) Acenaphthene-d10	8.643	164	789641	40.00	ppm	-0.02
68) Phenanthrene-d10	11.116	188	1129842	40.00	ppm	-0.03
84) Chrysene-d12	16.058	240	829570	40.00	ppm	-0.02
93) Perylene-d12	18.574	264	631088	40.00	ppm	-0.02

System Monitoring Compounds						
7) 2-Fluorophenol	4.182	112	947208	60.65	ppm	0.00
Spiked Amount 100.000	Range 40 - 102		Recovery = 60.65%			
9) Phenol-d5	4.876	99	1231910	73.61	ppm	-0.01
Spiked Amount 100.000	Range 41 - 100		Recovery = 73.61%			
23) Nitrobenzene-d5	5.619	82	560697	37.77	ppm	-0.02
Spiked Amount 50.000	Range 40 - 105		Recovery = 75.54%			
46) 2-Fluorobiphenyl	7.644	172	944552	36.56	ppm	-0.03
Spiked Amount 50.000	Range 43 - 107		Recovery = 73.12%			
73) 2,4,6-Tribromophenol	9.951	330	375252	90.26	ppm	-0.03
Spiked Amount 100.000	Range 42 - 108		Recovery = 90.26%			
87) Terphenyl-d14	14.156	244	856674	44.55	ppm	-0.02
Spiked Amount 50.000	Range 45 - 119		Recovery = 89.10%			

Target Compounds						Qvalue
92) bis(2-Ethylhexyl)phtha...	16.421	149	5909	0.37	ppm	91

(#) = qualifier out of range (m) = manual integration (+) = signals summed

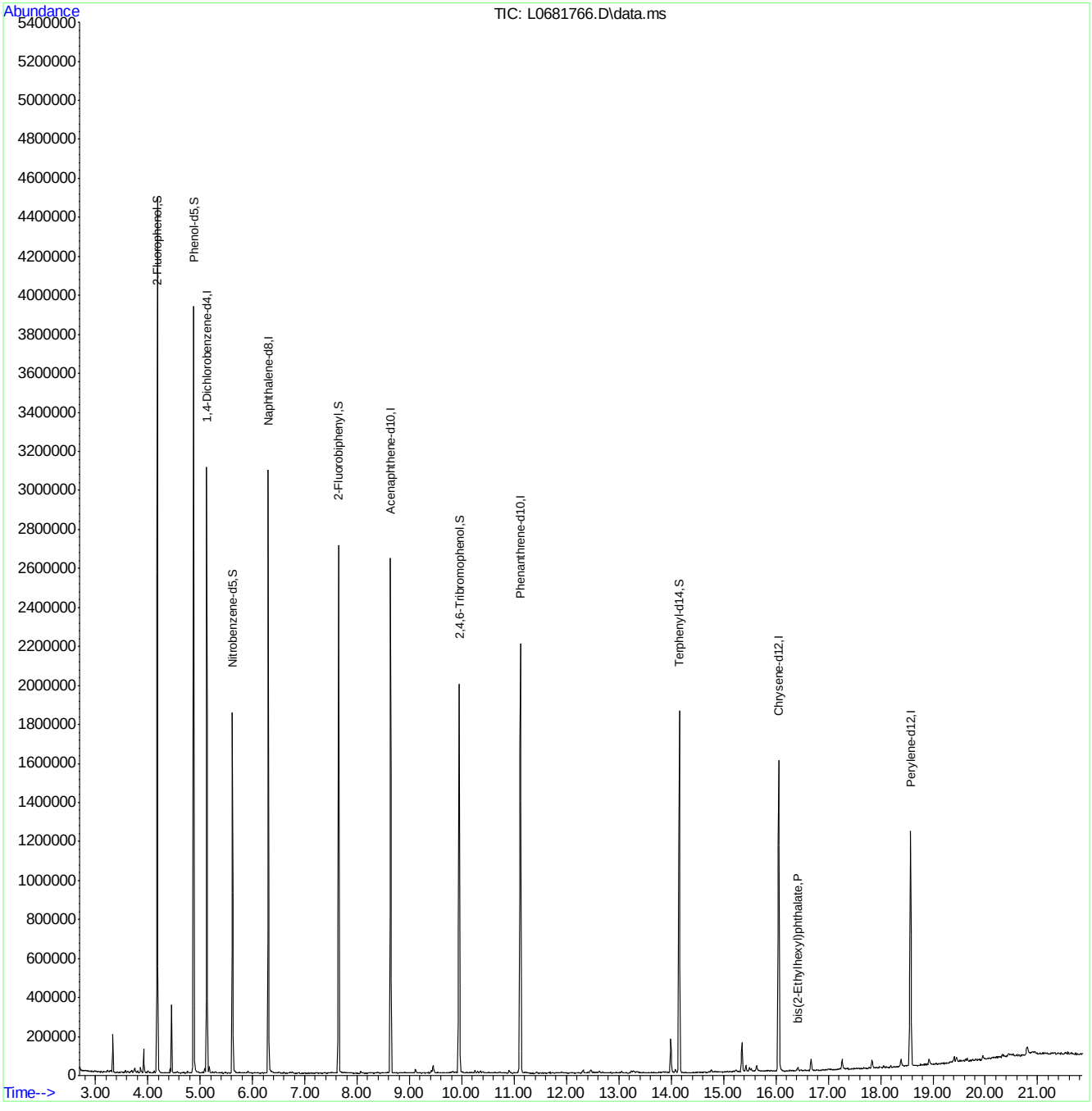
7.1.8

7

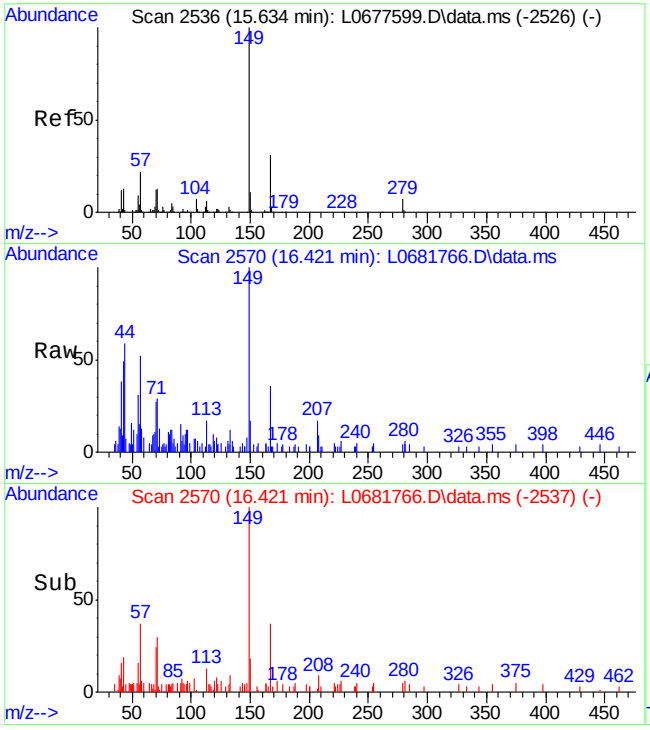
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\sl3632\
Data File : L0681766.D
Acq On : 7 Apr 2015 3:48 pm
Operator : marthav
Sample : fa23258-15
Misc : op55582,sl3632,30.4,,,1,1,soil
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Apr 08 09:43:02 2015
Quant Method : C:\msdchem\1\METHODS\8270da0402.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Thu Apr 02 15:27:09 2015
Response via : Initial Calibration



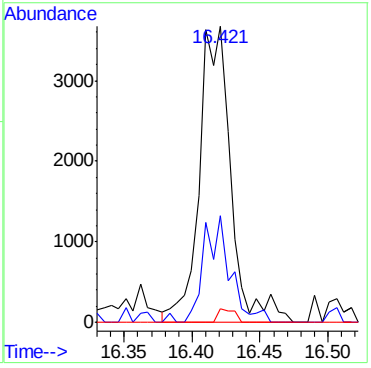
8270da0402.m Wed Apr 08 10:13:33 2015 Page: 2



#92
bis(2-Ethylhexyl)phthalate
Concen: 0.37 ppm
RT: 16.421 min Scan# 2570
Delta R.T. -0.024 min
Lab File: L0681766.D
Acq: 7 Apr 2015 3:48 pm

Tgt Ion:149 Resp: 5909

Ion	Ratio	Lower	Upper
149	100		
167	36.6	1.1	61.1
279	4.5	0.0	34.6



7.1.8

7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\sl3632\
Data File : L0681767.D
Acq On : 7 Apr 2015 4:16 pm
Operator : marthav
Sample : fa23258-17
Misc : op55582,sl3632,29.9,,,1,1,soil
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Apr 08 09:43:35 2015
Quant Method : C:\msdchem\1\METHODS\8270da0402.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Thu Apr 02 15:27:09 2015
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	5.130	152	428416	40.00	ppm	-0.02
22) Naphthalene-d8	6.305	136	1412752	40.00	ppm	-0.02
42) Acenaphthene-d10	8.640	164	849815	40.00	ppm	-0.03
68) Phenanthrene-d10	11.119	188	1217019	40.00	ppm	-0.03
84) Chrysene-d12	16.055	240	898263	40.00	ppm	-0.03
93) Perylene-d12	18.576	264	708980	40.00	ppm	-0.02

System Monitoring Compounds						
7) 2-Fluorophenol	4.184	112	1043597	61.95	ppm	0.00
Spiked Amount 100.000	Range 40 - 102		Recovery = 61.95%			
9) Phenol-d5	4.874	99	1334229	73.92	ppm	-0.02
Spiked Amount 100.000	Range 41 - 100		Recovery = 73.92%			
23) Nitrobenzene-d5	5.616	82	631521	40.48	ppm	-0.02
Spiked Amount 50.000	Range 40 - 105		Recovery = 80.96%			
46) 2-Fluorobiphenyl	7.646	172	1064185	38.28	ppm	-0.03
Spiked Amount 50.000	Range 43 - 107		Recovery = 76.56%			
73) 2,4,6-Tribromophenol	9.954	330	431328	96.31	ppm	-0.03
Spiked Amount 100.000	Range 42 - 108		Recovery = 96.31%			
87) Terphenyl-d14	14.153	244	1003234	48.19	ppm	-0.03
Spiked Amount 50.000	Range 45 - 119		Recovery = 96.38%			

Target Compounds						Qvalue
66) Diethylphthalate	9.452	149	11641	0.42	ppm	91
92) bis(2-Ethylhexyl)phtha...	16.413	149	9402	0.54	ppm	76

(#) = qualifier out of range (m) = manual integration (+) = signals summed

7.1.9

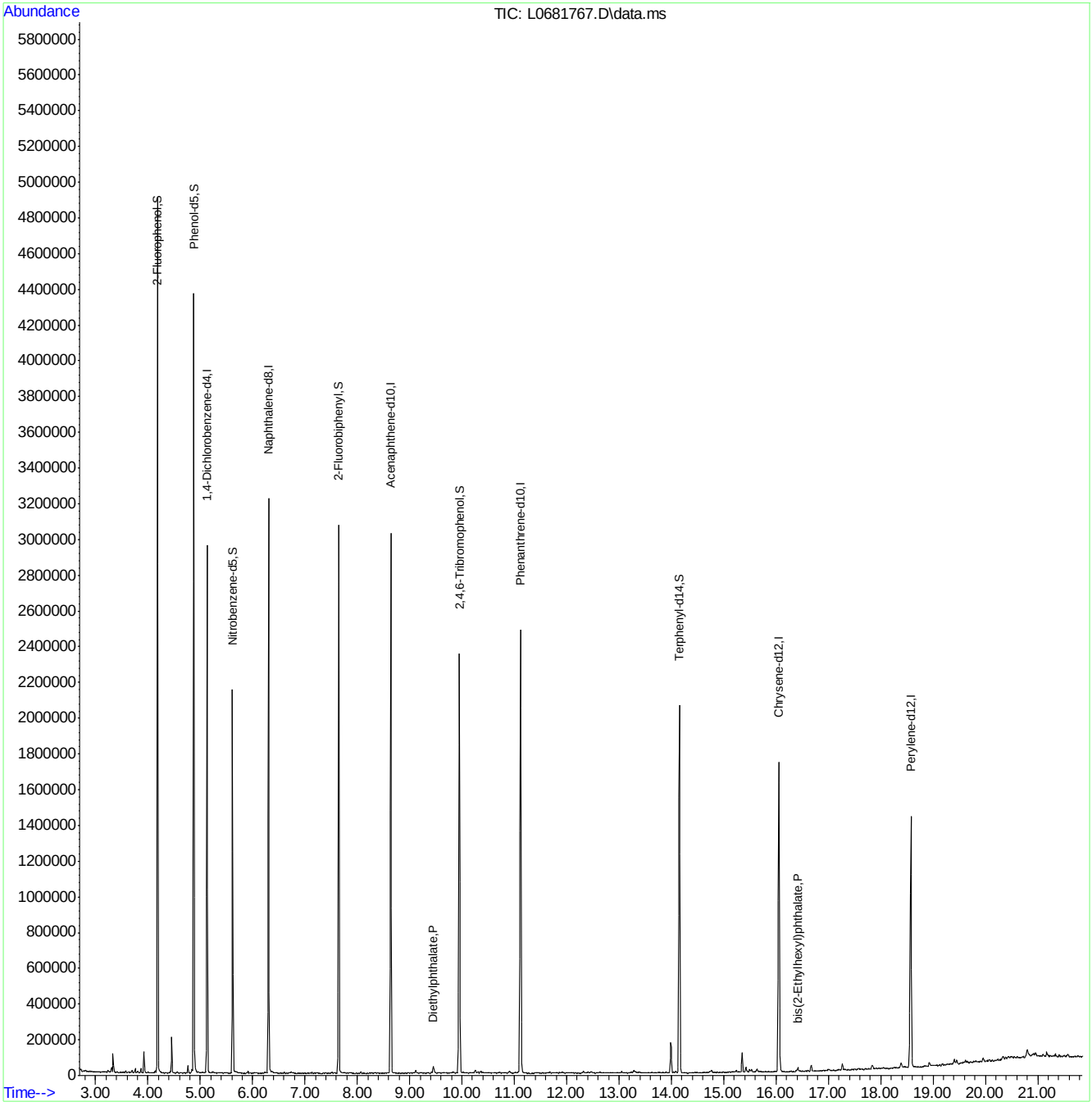
7

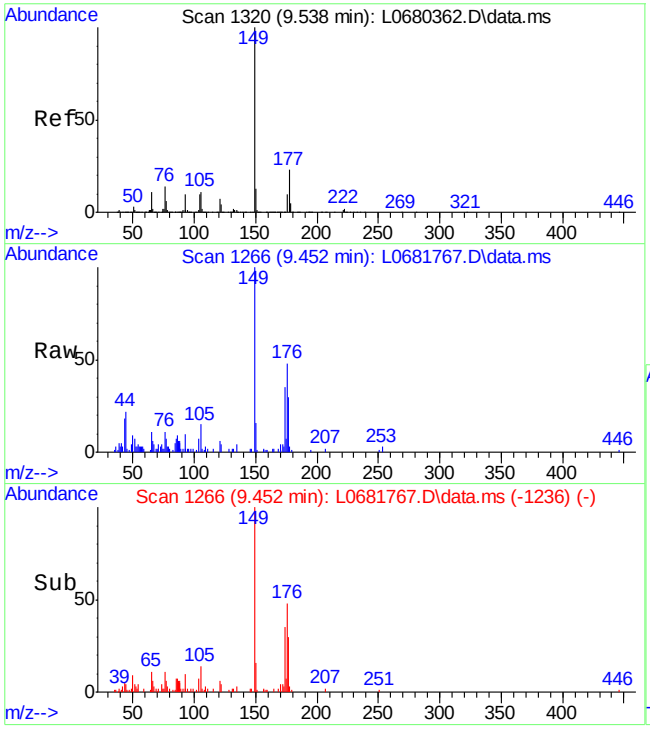
ACCUTEST LABORATORIES FA23258

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\sl3632\
Data File : L0681767.D
Acq On : 7 Apr 2015 4:16 pm
Operator : marthav
Sample : fa23258-17
Misc : op55582,sl3632,29.9,,,1,1,soil
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Apr 08 09:43:35 2015
Quant Method : C:\msdchem\1\METHODS\8270da0402.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Thu Apr 02 15:27:09 2015
Response via : Initial Calibration

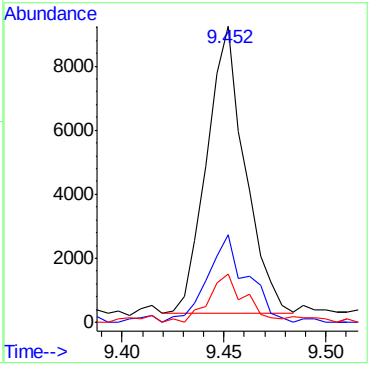


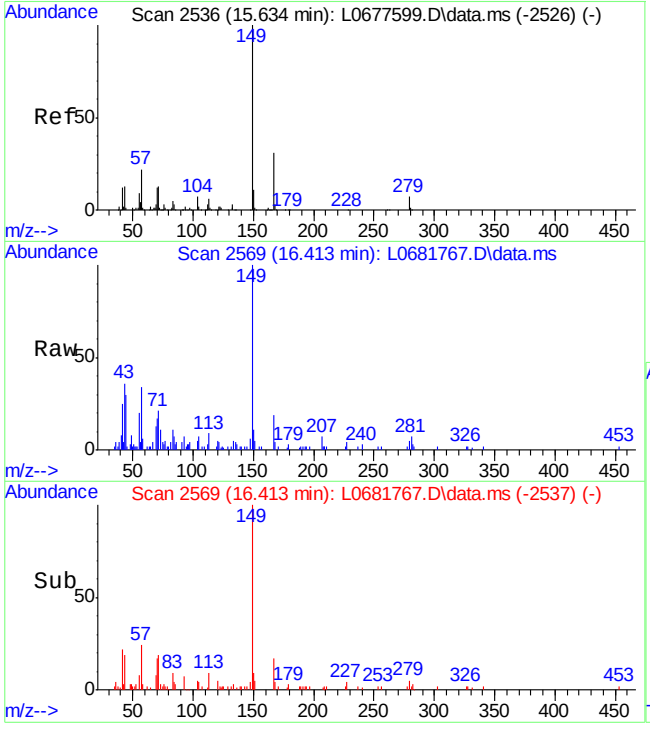


#66
Diethylphthalate
Concen: 0.42 ppm
RT: 9.452 min Scan# 1266
Delta R.T. -0.042 min
Lab File: L0681767.D
Acq: 7 Apr 2015 4:16 pm

Tgt Ion:149 Resp: 11641

Ion	Ratio	Lower	Upper
149	100		
177	30.5	0.0	55.1
150	15.7	0.0	43.3

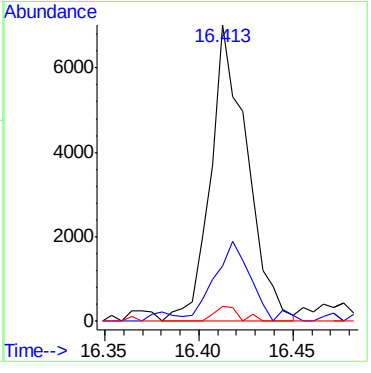




#92
bis(2-Ethylhexyl)phthalate
Concen: 0.54 ppm
RT: 16.413 min Scan# 2569
Delta R.T. -0.032 min
Lab File: L0681767.D
Acq: 7 Apr 2015 4:16 pm

Tgt Ion:149 Resp: 9402

Ion	Ratio	Lower	Upper
149	100		
167	16.3	1.1	61.1
279	5.0	0.0	34.6



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\sl3632\
Data File : L0681768.D
Acq On : 7 Apr 2015 4:43 pm
Operator : marthav
Sample : fa23258-19
Misc : op55582,sl3632,30.1,,,1,1,soil
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Apr 08 09:44:18 2015
Quant Method : C:\msdchem\1\METHODS\8270da0402.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Thu Apr 02 15:27:09 2015
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	5.130	152	401830	40.00	ppm	-0.02
22) Naphthalene-d8	6.305	136	1358123	40.00	ppm	-0.02
42) Acenaphthene-d10	8.640	164	813965	40.00	ppm	-0.03
68) Phenanthrene-d10	11.118	188	1157111	40.00	ppm	-0.03
84) Chrysene-d12	16.055	240	833809	40.00	ppm	-0.03
93) Perylene-d12	18.576	264	660041	40.00	ppm	-0.02

System Monitoring Compounds

7) 2-Fluorophenol	4.184	112	1002709	63.47	ppm	0.00
Spiked Amount 100.000	Range 40 - 102		Recovery = 63.47%			
9) Phenol-d5	4.874	99	1308834	77.31	ppm	-0.02
Spiked Amount 100.000	Range 41 - 100		Recovery = 77.31%			
23) Nitrobenzene-d5	5.616	82	601651	40.12	ppm	-0.02
Spiked Amount 50.000	Range 40 - 105		Recovery = 80.24%			
46) 2-Fluorobiphenyl	7.646	172	1046991	39.32	ppm	-0.03
Spiked Amount 50.000	Range 43 - 107		Recovery = 78.64%			
73) 2,4,6-Tribromophenol	9.954	330	425713	99.98	ppm	-0.03
Spiked Amount 100.000	Range 42 - 108		Recovery = 99.98%			
87) Terphenyl-d14	14.153	244	932416	48.25	ppm	-0.03
Spiked Amount 50.000	Range 45 - 119		Recovery = 96.50%			

Target Compounds						Qvalue
66) Diethylphthalate	9.452	149	13465	0.50	ppm	93
92) bis(2-Ethylhexyl)phtha...	16.418	149	11091	0.68	ppm	91

(#) = qualifier out of range (m) = manual integration (+) = signals summed

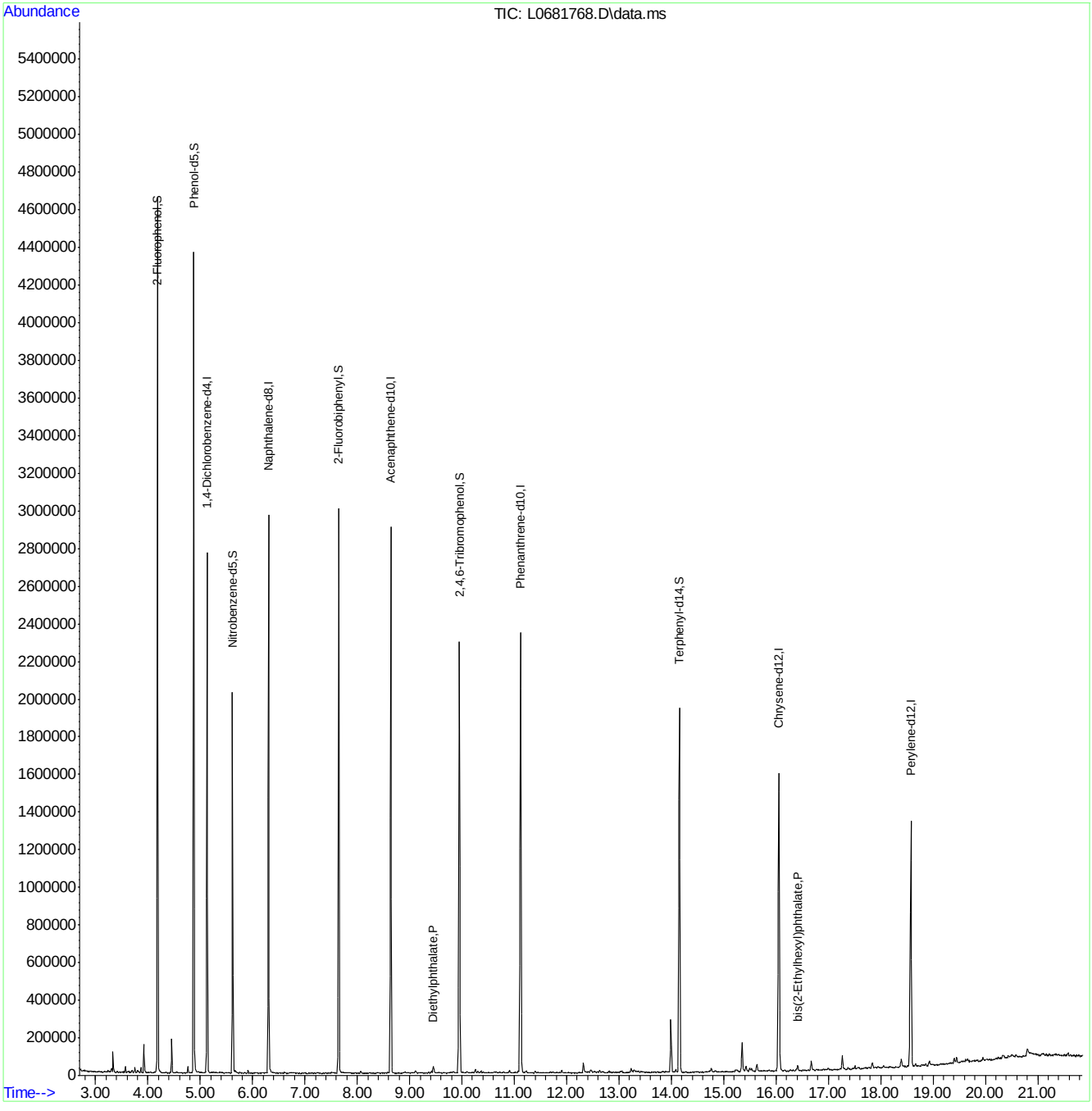
7.1.10

7

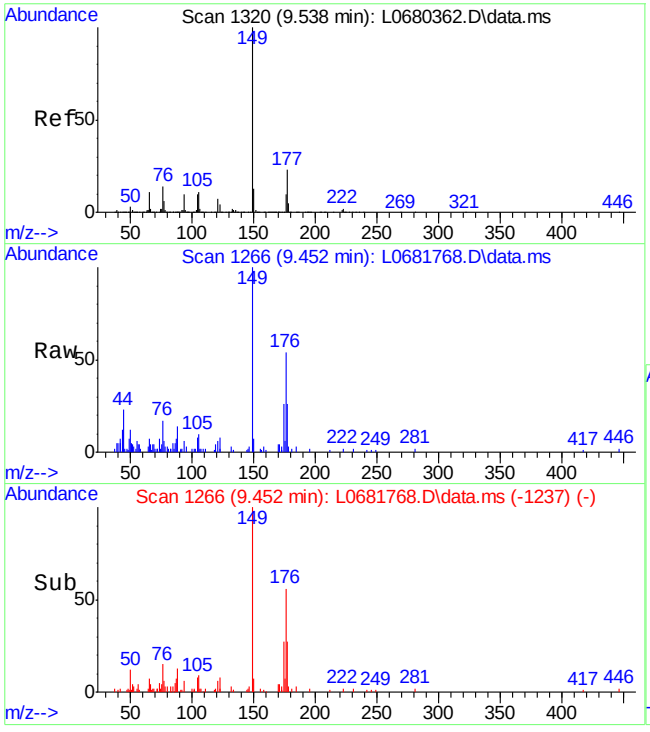
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\sl3632\
Data File : L0681768.D
Acq On : 7 Apr 2015 4:43 pm
Operator : marthav
Sample : fa23258-19
Misc : op55582,sl3632,30.1,,,1,1,soil
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Apr 08 09:44:18 2015
Quant Method : C:\msdchem\1\METHODS\8270da0402.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Thu Apr 02 15:27:09 2015
Response via : Initial Calibration



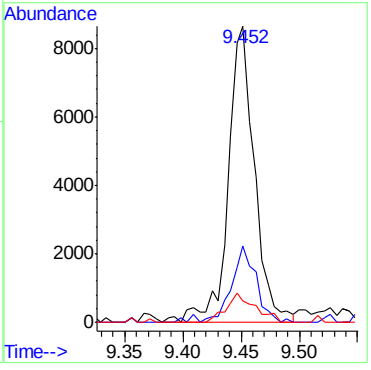
ACCUTEST LABORATORIES FA23258

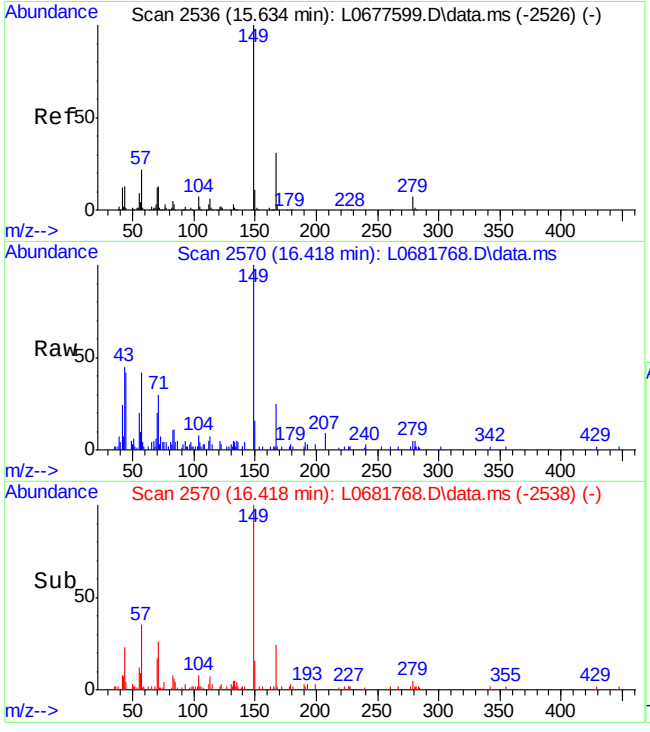


#66
Diethylphthalate
Concen: 0.50 ppm
RT: 9.452 min Scan# 1266
Delta R.T. -0.042 min
Lab File: L0681768.D
Acq: 7 Apr 2015 4:43 pm

Tgt Ion:149 Resp: 13465

Ion	Ratio	Lower	Upper
149	100		
177	26.2	0.0	55.1
150	7.2	0.0	43.3

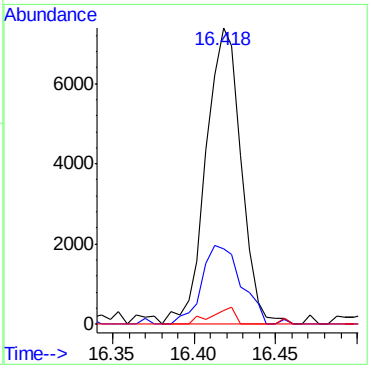




#92
bis(2-Ethylhexyl)phthalate
Concen: 0.68 ppm
RT: 16.418 min Scan# 2570
Delta R.T. -0.026 min
Lab File: L0681768.D
Acq: 7 Apr 2015 4:43 pm

Tgt Ion:149 Resp: 11091

Ion	Ratio	Lower	Upper
149	100		
167	25.3	1.1	61.1
279	4.7	0.0	34.6



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\sl3632\
Data File : L0681769.D
Acq On : 7 Apr 2015 5:11 pm
Operator : marthav
Sample : fa23258-21
Misc : op55582,sl3632,30.4,,,1,1,soil
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Apr 08 09:44:54 2015
Quant Method : C:\msdchem\1\METHODS\8270da0402.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Thu Apr 02 15:27:09 2015
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	5.127	152	394155	40.00	ppm	-0.02
22) Naphthalene-d8	6.302	136	1319425	40.00	ppm	-0.02
42) Acenaphthene-d10	8.642	164	785911	40.00	ppm	-0.02
68) Phenanthrene-d10	11.121	188	1130195	40.00	ppm	-0.02
84) Chrysene-d12	16.057	240	850238	40.00	ppm	-0.02
93) Perylene-d12	18.578	264	670979	40.00	ppm	-0.02

System Monitoring Compounds

7) 2-Fluorophenol	4.181	112	902952	58.26	ppm	0.00
Spiked Amount 100.000	Range 40 - 102		Recovery = 58.26%			
9) Phenol-d5	4.876	99	1170965	70.51	ppm	-0.01
Spiked Amount 100.000	Range 41 - 100		Recovery = 70.51%			
23) Nitrobenzene-d5	5.618	82	534846	36.71	ppm	-0.02
Spiked Amount 50.000	Range 40 - 105		Recovery = 73.42%			
46) 2-Fluorobiphenyl	7.643	172	906238	35.25	ppm	-0.03
Spiked Amount 50.000	Range 43 - 107		Recovery = 70.50%			
73) 2,4,6-Tribromophenol	9.951	330	363538	87.41	ppm	-0.03
Spiked Amount 100.000	Range 42 - 108		Recovery = 87.41%			
87) Terphenyl-d14	14.155	244	843420	42.80	ppm	-0.02
Spiked Amount 50.000	Range 45 - 119		Recovery = 85.60%			

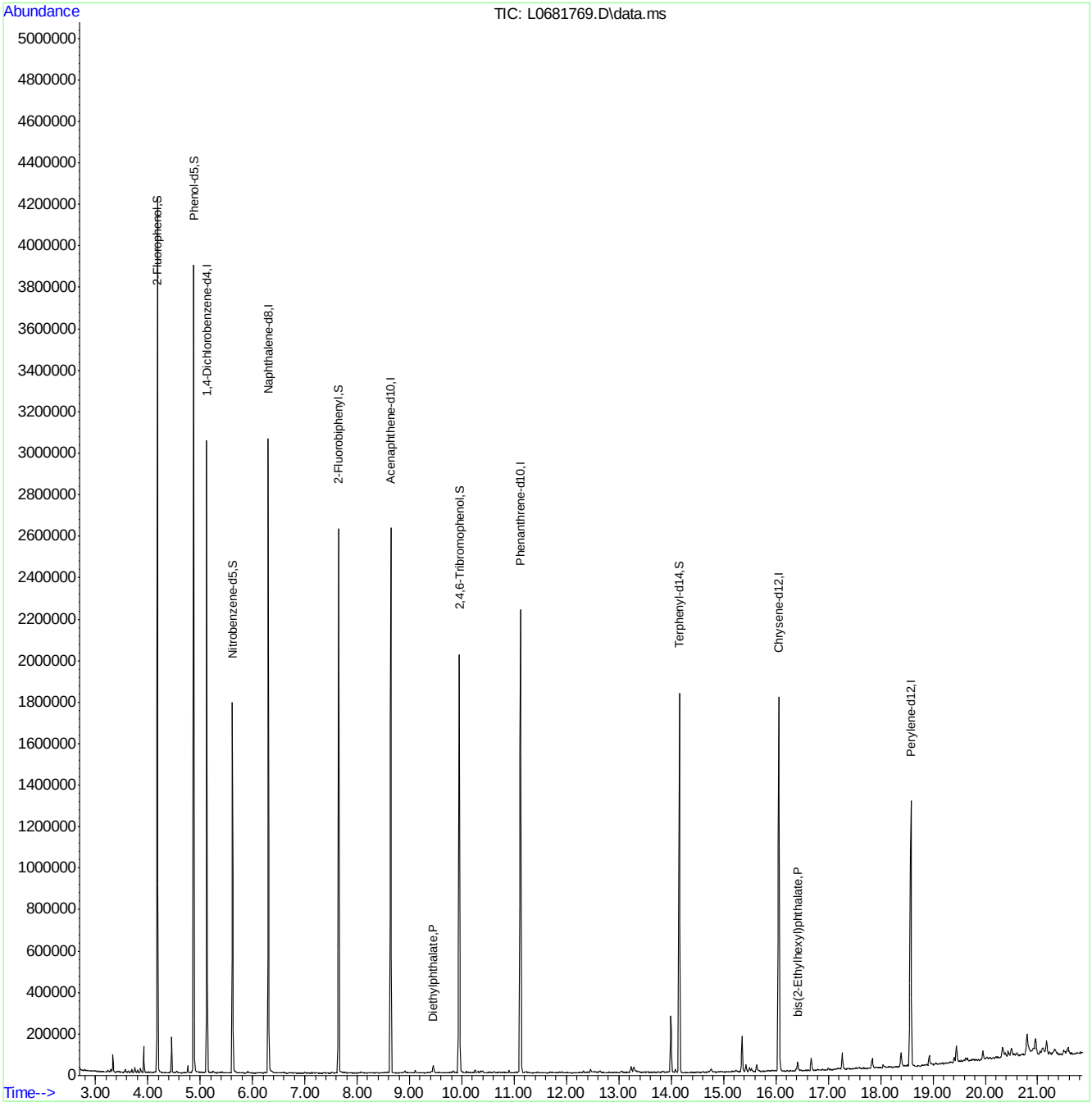
Target Compounds						Qvalue
66) Diethylphthalate	9.449	149	11579	0.45	ppm	91
92) bis(2-Ethylhexyl)phtha...	16.415	149	17480	1.06	ppm	90

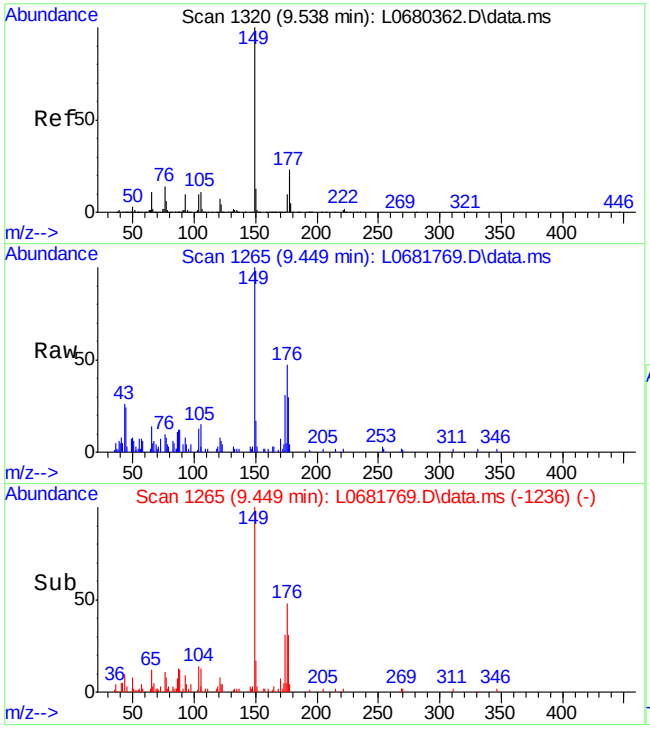
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\sl3632\
Data File : L0681769.D
Acq On : 7 Apr 2015 5:11 pm
Operator : marthav
Sample : fa23258-21
Misc : op55582,sl3632,30.4,,,1,1,soil
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Apr 08 09:44:54 2015
Quant Method : C:\msdchem\1\METHODS\8270da0402.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Thu Apr 02 15:27:09 2015
Response via : Initial Calibration

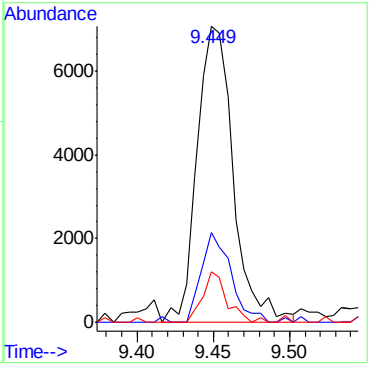


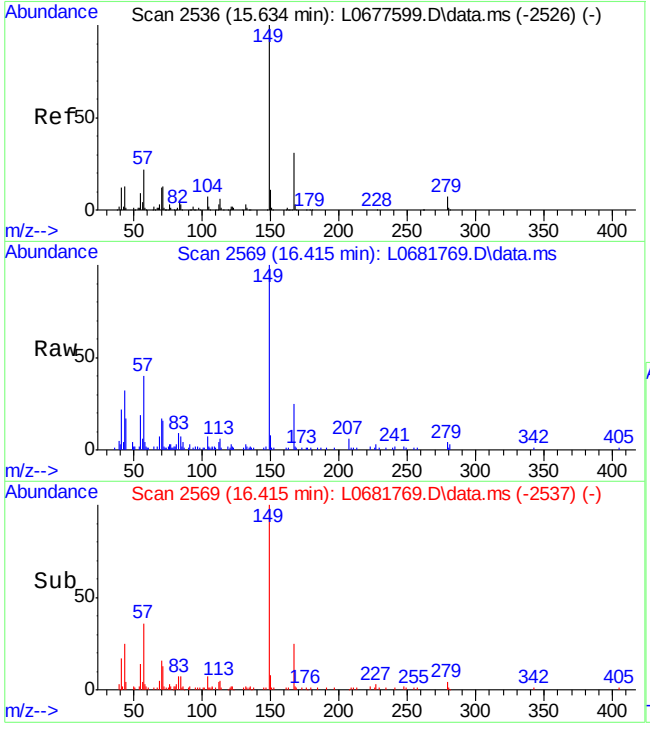


#66
Diethylphthalate
Concen: 0.45 ppm
RT: 9.449 min Scan# 1265
Delta R.T. -0.046 min
Lab File: L0681769.D
Acq: 7 Apr 2015 5:11 pm

Tgt Ion:149 Resp: 11579

Ion	Ratio	Lower	Upper
149	100		
177	29.8	0.0	55.1
150	17.2	0.0	43.3

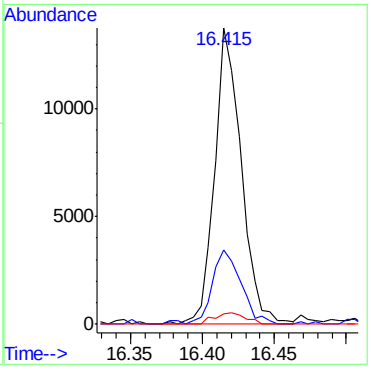




#92
bis(2-Ethylhexyl)phthalate
Concen: 1.06 ppm
RT: 16.415 min Scan# 2569
Delta R.T. -0.030 min
Lab File: L0681769.D
Acq: 7 Apr 2015 5:11 pm

Tgt Ion:149 Resp: 17480

Ion	Ratio	Lower	Upper
149	100		
167	25.1	1.1	61.1
279	3.5	0.0	34.6



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\sl3632\
Data File : L0681770.D
Acq On : 7 Apr 2015 5:38 pm
Operator : marthav
Sample : fa23258-22
Misc : op55582,sl3632,30.4,,,1,1,soil
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Apr 08 09:52:15 2015
Quant Method : C:\msdchem\1\METHODS\8270da0402.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Thu Apr 02 15:27:09 2015
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	5.125	152	388685	40.00	ppm	-0.02
22) Naphthalene-d8	6.306	136	1309322	40.00	ppm	-0.02
42) Acenaphthene-d10	8.640	164	776123	40.00	ppm	-0.03
68) Phenanthrene-d10	11.119	188	1133297	40.00	ppm	-0.03
84) Chrysene-d12	16.055	240	806475	40.00	ppm	-0.03
93) Perylene-d12	18.577	264	649874	40.00	ppm	-0.02

System Monitoring Compounds

7) 2-Fluorophenol	4.180	112	1007040	65.90	ppm	0.00
Spiked Amount 100.000	Range 40 - 102		Recovery = 65.90%			
9) Phenol-d5	4.874	99	1295965	79.14	ppm	-0.01
Spiked Amount 100.000	Range 41 - 100		Recovery = 79.14%			
23) Nitrobenzene-d5	5.617	82	608645	42.10	ppm	-0.02
Spiked Amount 50.000	Range 40 - 105		Recovery = 84.20%			
46) 2-Fluorobiphenyl	7.647	172	1015878	40.01	ppm	-0.03
Spiked Amount 50.000	Range 43 - 107		Recovery = 80.02%			
73) 2,4,6-Tribromophenol	9.949	330	402896	96.61	ppm	-0.03
Spiked Amount 100.000	Range 42 - 108		Recovery = 96.61%			
87) Terphenyl-d14	14.154	244	917180	49.07	ppm	-0.03
Spiked Amount 50.000	Range 45 - 119		Recovery = 98.14%			

Target Compounds						Qvalue
66) Diethylphthalate	9.447	149	11267	0.44	ppm	93
92) bis(2-Ethylhexyl)phtha...	16.413	149	10418	0.66	ppm	90

(#) = qualifier out of range (m) = manual integration (+) = signals summed

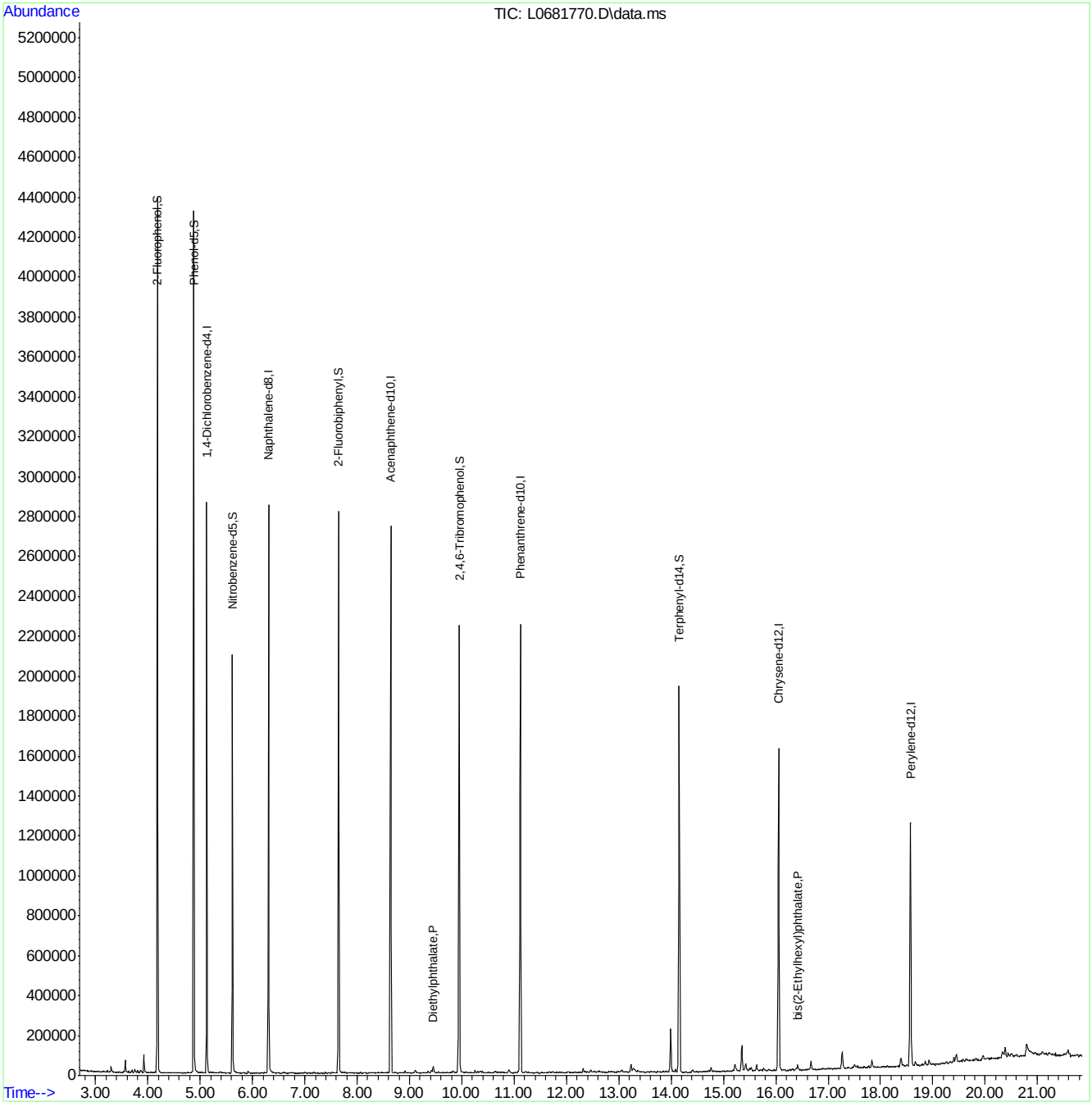
7.1.12

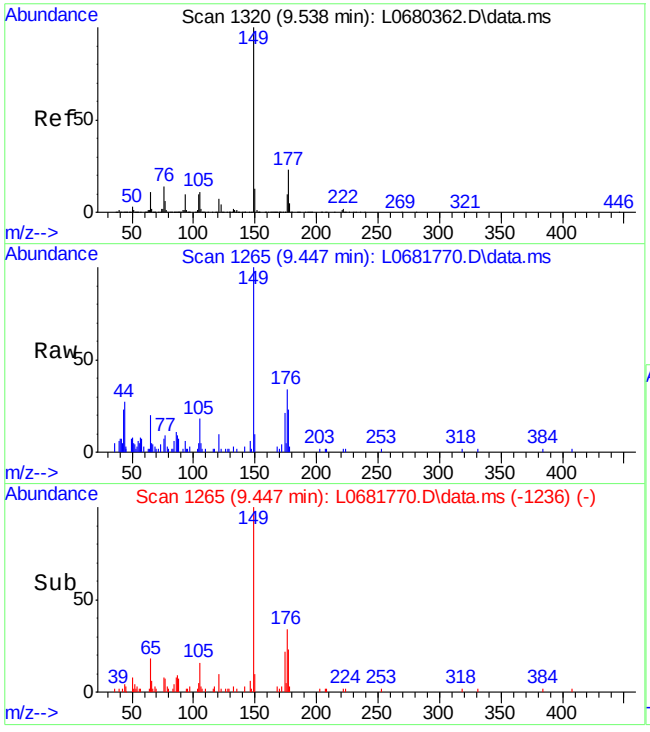
7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\sl3632\
Data File : L0681770.D
Acq On : 7 Apr 2015 5:38 pm
Operator : marthav
Sample : fa23258-22
Misc : op55582,sl3632,30.4,,,1,1,soil
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Apr 08 09:52:15 2015
Quant Method : C:\msdchem\1\METHODS\8270da0402.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Thu Apr 02 15:27:09 2015
Response via : Initial Calibration

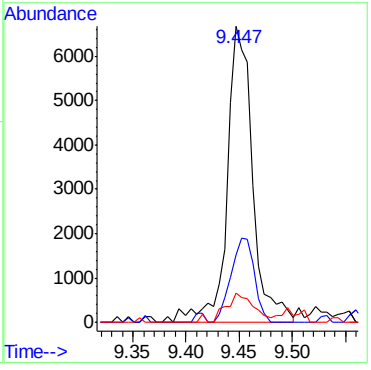


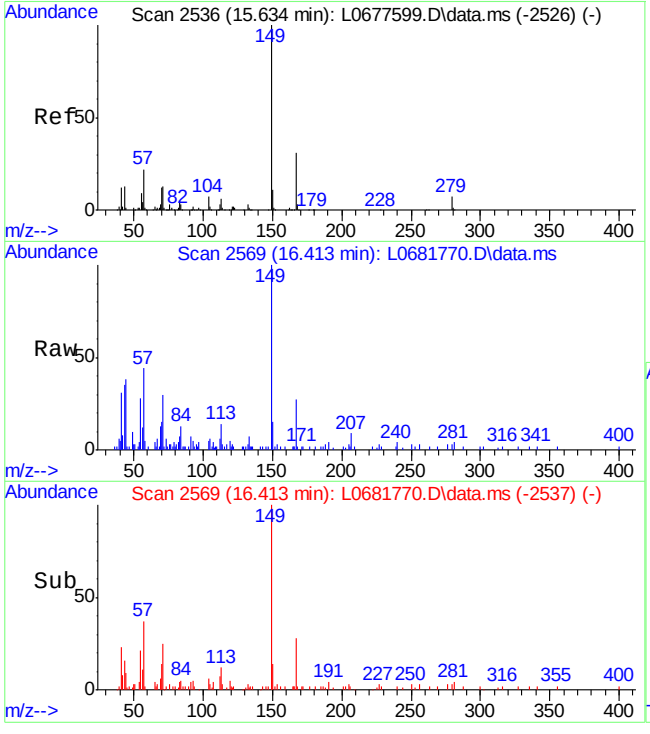


#66
Diethylphthalate
Concen: 0.44 ppm
RT: 9.447 min Scan# 1265
Delta R.T. -0.047 min
Lab File: L0681770.D
Acq: 7 Apr 2015 5:38 pm

Tgt Ion:149 Resp: 11267

Ion	Ratio	Lower	Upper
149	100		
177	23.1	0.0	55.1
150	8.7	0.0	43.3

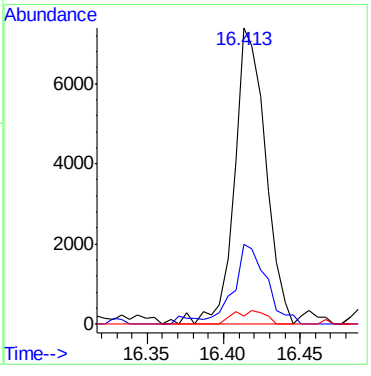




#92
bis(2-Ethylhexyl)phthalate
Concen: 0.66 ppm
RT: 16.413 min Scan# 2569
Delta R.T. -0.031 min
Lab File: L0681770.D
Acq: 7 Apr 2015 5:38 pm

Tgt Ion:149 Resp: 10418

Ion	Ratio	Lower	Upper
149	100		
167	25.5	1.1	61.1
279	2.6	0.0	34.6



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\sl3632\
Data File : L0681771.D
Acq On : 7 Apr 2015 6:05 pm
Operator : marthav
Sample : fa23258-23
Misc : op55582,sl3632,30.3,,,1,1,soil
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Apr 08 09:54:13 2015
Quant Method : C:\msdchem\1\METHODS\8270da0402.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Thu Apr 02 15:27:09 2015
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	5.127	152	398841	40.00	ppm	-0.02
22) Naphthalene-d8	6.302	136	1345809	40.00	ppm	-0.02
42) Acenaphthene-d10	8.637	164	809249	40.00	ppm	-0.03
68) Phenanthrene-d10	11.121	188	1149942	40.00	ppm	-0.02
84) Chrysene-d12	16.057	240	824441	40.00	ppm	-0.02
93) Perylene-d12	18.578	264	640095	40.00	ppm	-0.02

System Monitoring Compounds						
7) 2-Fluorophenol	4.181	112	1025614	65.40	ppm	0.00
Spiked Amount 100.000	Range 40 - 102		Recovery = 65.40%			
9) Phenol-d5	4.876	99	1331177	79.22	ppm	-0.01
Spiked Amount 100.000	Range 41 - 100		Recovery = 79.22%			
23) Nitrobenzene-d5	5.618	82	626367	42.15	ppm	-0.02
Spiked Amount 50.000	Range 40 - 105		Recovery = 84.30%			
46) 2-Fluorobiphenyl	7.643	172	1052108	39.74	ppm	-0.03
Spiked Amount 50.000	Range 43 - 107		Recovery = 79.48%			
73) 2,4,6-Tribromophenol	9.951	330	418015	98.78	ppm	-0.03
Spiked Amount 100.000	Range 42 - 108		Recovery = 98.78%			
87) Terphenyl-d14	14.155	244	959939	50.24	ppm	-0.02
Spiked Amount 50.000	Range 45 - 119		Recovery = 100.48%			

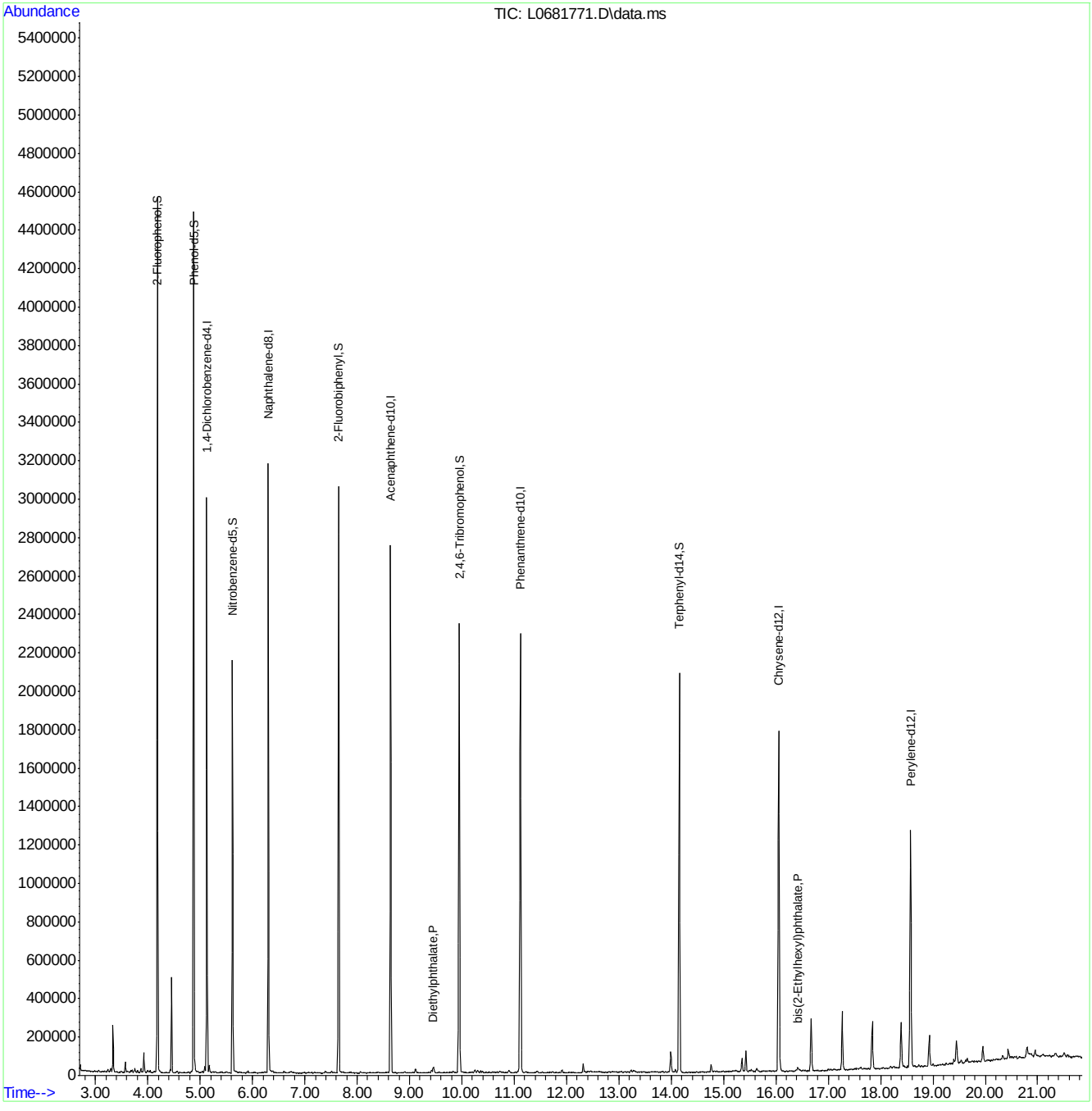
Target Compounds						Qvalue
66) Diethylphthalate	9.454	149	10030	0.38	ppm	92
92) bis(2-Ethylhexyl)phtha...	16.415	149	7312	0.46	ppm	88

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

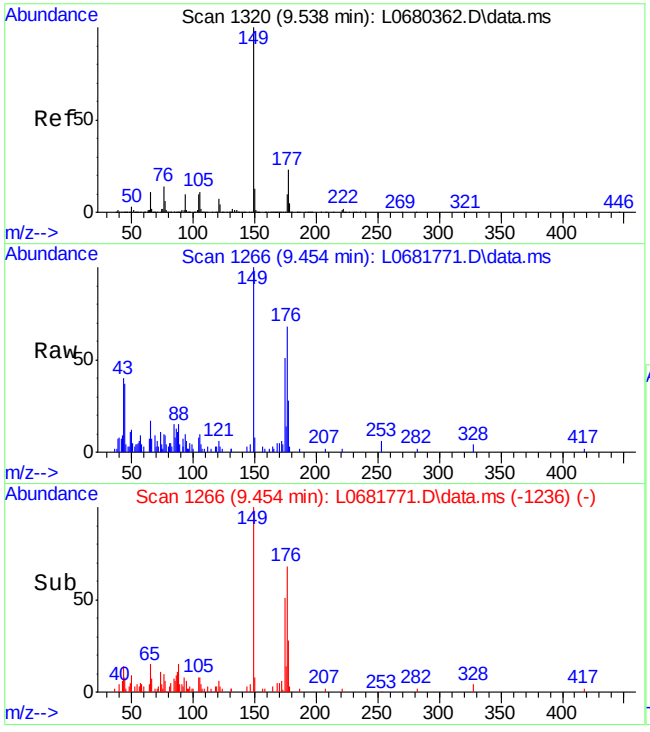
Data Path : C:\msdchem\1\DATA\sl3632\
Data File : L0681771.D
Acq On : 7 Apr 2015 6:05 pm
Operator : marthav
Sample : fa23258-23
Misc : op55582,sl3632,30.3,,,1,1,soil
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Apr 08 09:54:13 2015
Quant Method : C:\msdchem\1\METHODS\8270da0402.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Thu Apr 02 15:27:09 2015
Response via : Initial Calibration



8270da0402.m Wed Apr 08 10:13:38 2015

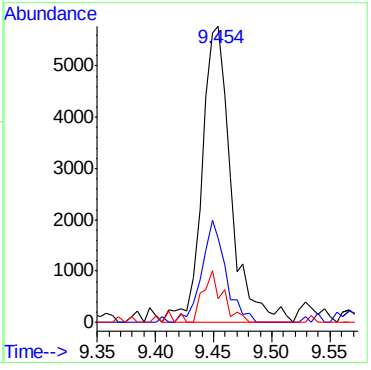
ACCUTEST LABORATORIES FA23258

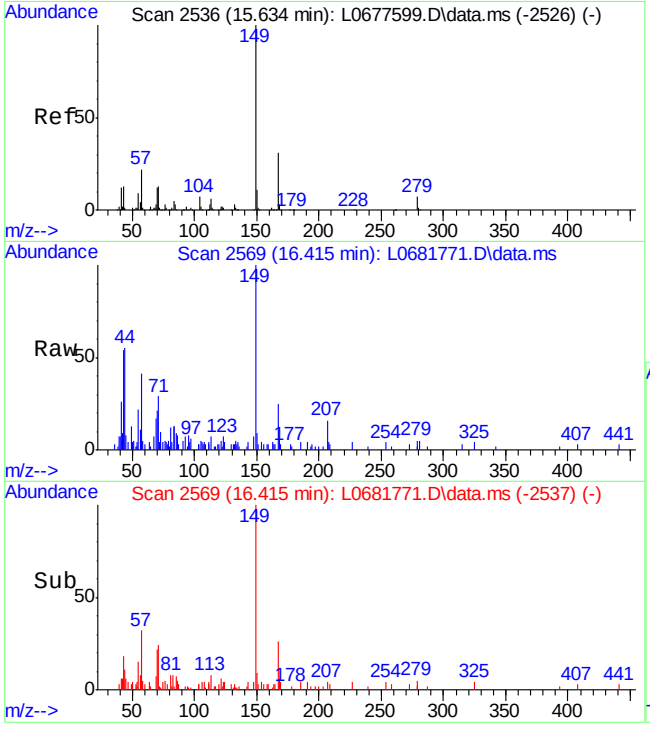


#66
Diethylphthalate
Concen: 0.38 ppm
RT: 9.454 min Scan# 1266
Delta R.T. -0.040 min
Lab File: L0681771.D
Acq: 7 Apr 2015 6:05 pm

Tgt Ion:149 Resp: 10030

Ion	Ratio	Lower	Upper
149	100		
177	27.4	0.0	55.1
150	8.1	0.0	43.3

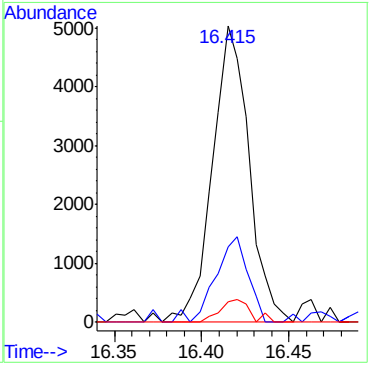




#92
bis(2-Ethylhexyl)phthalate
Concen: 0.46 ppm
RT: 16.415 min Scan# 2569
Delta R.T. -0.029 min
Lab File: L0681771.D
Acq: 7 Apr 2015 6:05 pm

Tgt Ion:149 Resp: 7312

Ion	Ratio	Lower	Upper
149	100		
167	24.0	1.1	61.1
279	6.9	0.0	34.6



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\sl3632\
Data File : L0681772.D
Acq On : 7 Apr 2015 6:33 pm
Operator : marthav
Sample : fa23258-25
Misc : op55582,sl3632,30.3,,,1,1,soil
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Apr 08 09:55:30 2015
Quant Method : C:\msdchem\1\METHODS\8270da0402.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Thu Apr 02 15:27:09 2015
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	5.129	152	502495	40.00	ppm	-0.02
22) Naphthalene-d8	6.304	136	1588100	40.00	ppm	-0.02
42) Acenaphthene-d10	8.639	164	966773	40.00	ppm	-0.03
68) Phenanthrene-d10	11.118	188	1365608	40.00	ppm	-0.03
84) Chrysene-d12	16.059	240	995788	40.00	ppm	-0.02
93) Perylene-d12	18.581	264	783949	40.00	ppm	-0.02

System Monitoring Compounds

7) 2-Fluorophenol	4.189	112	1076085	54.47	ppm	0.00
Spiked Amount 100.000	Range 40 - 102		Recovery = 54.47%			
9) Phenol-d5	4.873	99	1413476	66.76	ppm	-0.02
Spiked Amount 100.000	Range 41 - 100		Recovery = 66.76%			
23) Nitrobenzene-d5	5.615	82	661939	37.75	ppm	-0.02
Spiked Amount 50.000	Range 40 - 105		Recovery = 75.50%			
46) 2-Fluorobiphenyl	7.645	172	1126995	35.63	ppm	-0.03
Spiked Amount 50.000	Range 43 - 107		Recovery = 71.26%			
73) 2,4,6-Tribromophenol	9.953	330	445779	88.71	ppm	-0.03
Spiked Amount 100.000	Range 42 - 108		Recovery = 88.71%			
87) Terphenyl-d14	14.157	244	993316	43.04	ppm	-0.02
Spiked Amount 50.000	Range 45 - 119		Recovery = 86.08%			

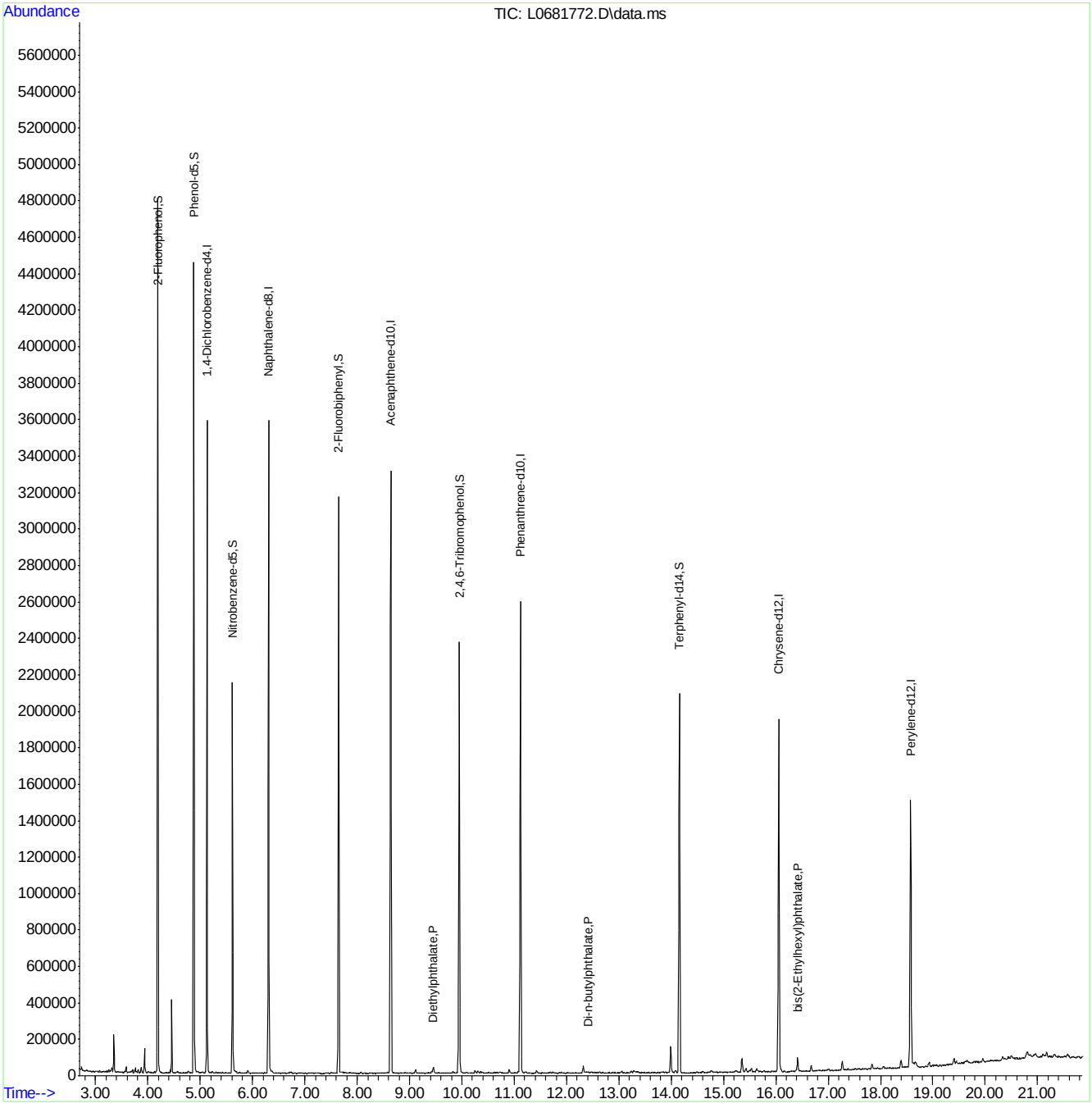
Target Compounds						Qvalue
66) Diethylphthalate	9.445	149	9963	0.31	ppm	92
82) Di-n-butylphthalate	12.416	149	4247	0.10	ppm	95
92) bis(2-Ethylhexyl)phtha...	16.417	149	29806	1.54	ppm	97

(#) = qualifier out of range (m) = manual integration (+) = signals summed

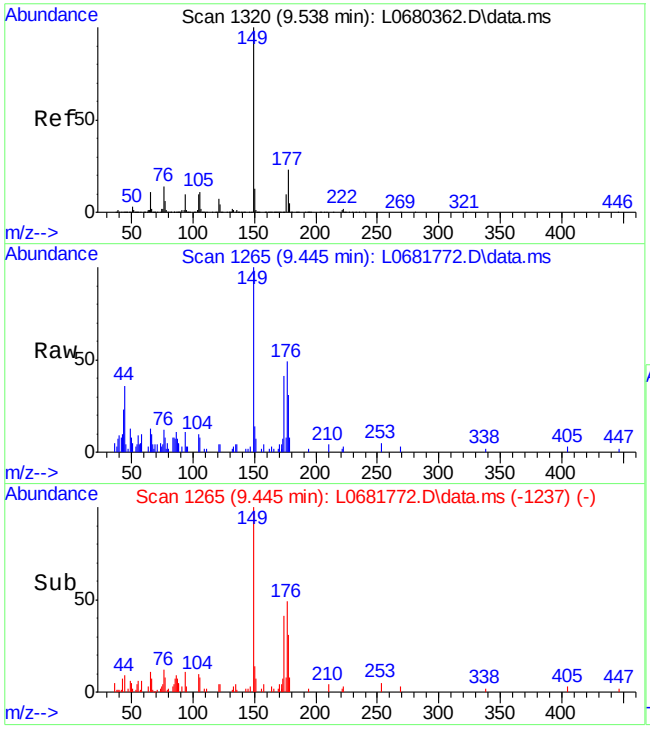
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\sl3632\
Data File : L0681772.D
Acq On : 7 Apr 2015 6:33 pm
Operator : marthav
Sample : fa23258-25
Misc : op55582,sl3632,30.3,,,1,1,soil
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Apr 08 09:55:30 2015
Quant Method : C:\msdchem\1\METHODS\8270da0402.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Thu Apr 02 15:27:09 2015
Response via : Initial Calibration



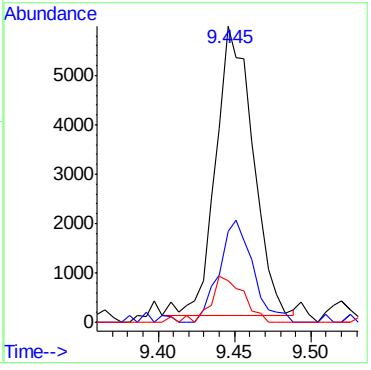
8270da0402.m Wed Apr 08 10:13:39 2015 Page: 2

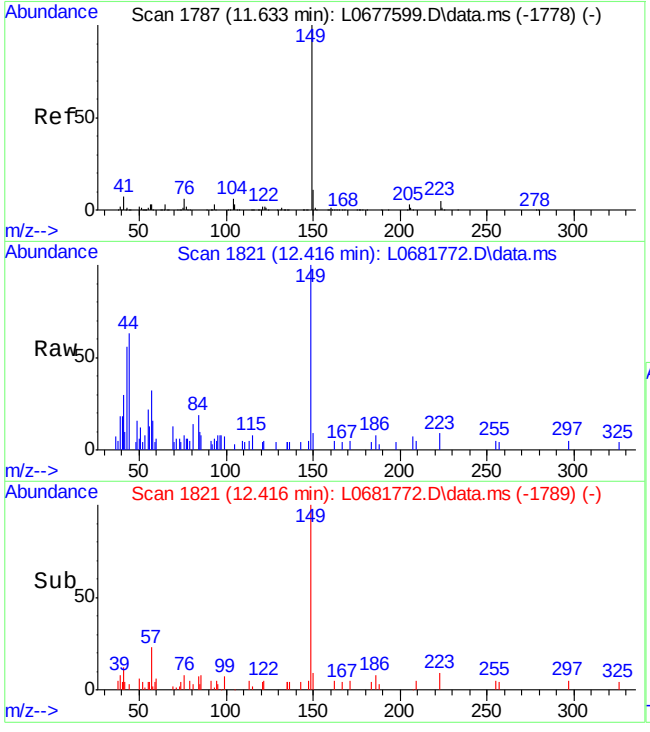


#66
Diethylphthalate
Concen: 0.31 ppm
RT: 9.445 min Scan# 1265
Delta R.T. -0.049 min
Lab File: L0681772.D
Acq: 7 Apr 2015 6:33 pm

Tgt Ion:149 Resp: 9963

Ion	Ratio	Lower	Upper
149	100		
177	30.7	0.0	55.1
150	14.7	0.0	43.3

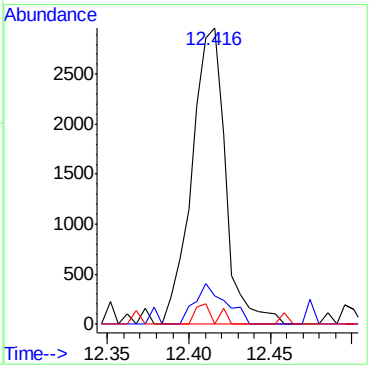


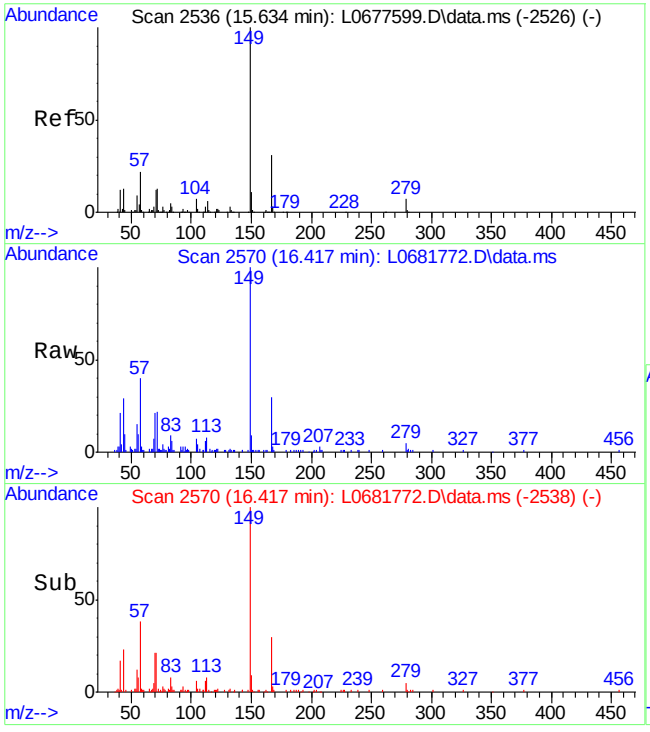


#82
Di-n-butylphthalate
Concen: 0.10 ppm
RT: 12.416 min Scan# 1821
Delta R.T. -0.027 min
Lab File: L0681772.D
Acq: 7 Apr 2015 6:33 pm

Tgt Ion:149 Resp: 4247

Ion	Ratio	Lower	Upper
149	100		
150	9.4	0.0	41.5
104	3.5	0.0	34.7

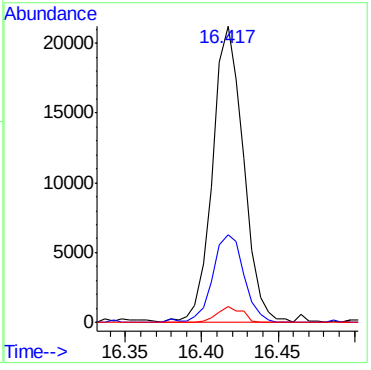




#92
bis(2-Ethylhexyl)phthalate
Concen: 1.54 ppm
RT: 16.417 min Scan# 2570
Delta R.T. -0.027 min
Lab File: L0681772.D
Acq: 7 Apr 2015 6:33 pm

Tgt Ion:149 Resp: 29806

Ion	Ratio	Lower	Upper
149	100		
167	29.7	1.1	61.1
279	5.2	0.0	34.6



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\sl3632\
Data File : L0681773.D
Acq On : 7 Apr 2015 7:00 pm
Operator : marthav
Sample : fa23258-27
Misc : op55582,sl3632,30.4,,,1,1,soil
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Apr 08 09:56:18 2015
Quant Method : C:\msdchem\1\METHODS\8270da0402.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Thu Apr 02 15:27:09 2015
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	5.125	152	374123	40.00	ppm	-0.02
22) Naphthalene-d8	6.305	136	1266209	40.00	ppm	-0.02
42) Acenaphthene-d10	8.640	164	768608	40.00	ppm	-0.03
68) Phenanthrene-d10	11.119	188	1129481	40.00	ppm	-0.03
84) Chrysene-d12	16.055	240	867701	40.00	ppm	-0.03
93) Perylene-d12	18.576	264	689361	40.00	ppm	-0.02

System Monitoring Compounds

7) 2-Fluorophenol	4.179	112	970263	65.96	ppm	-0.01
Spiked Amount 100.000	Range 40 - 102		Recovery = 65.96%			
9) Phenol-d5	4.874	99	1269662	80.55	ppm	-0.02
Spiked Amount 100.000	Range 41 - 100		Recovery = 80.55%			
23) Nitrobenzene-d5	5.616	82	582258	41.65	ppm	-0.02
Spiked Amount 50.000	Range 40 - 105		Recovery = 83.30%			
46) 2-Fluorobiphenyl	7.646	172	999787	39.76	ppm	-0.03
Spiked Amount 50.000	Range 43 - 107		Recovery = 79.52%			
73) 2,4,6-Tribromophenol	9.949	330	408161	98.20	ppm	-0.03
Spiked Amount 100.000	Range 42 - 108		Recovery = 98.20%			
87) Terphenyl-d14	14.153	244	990848	49.27	ppm	-0.03
Spiked Amount 50.000	Range 45 - 119		Recovery = 98.54%			

Target Compounds						Qvalue
92) bis(2-Ethylhexyl)phtha...	16.418	149	8840	0.52	ppm	88

(#) = qualifier out of range (m) = manual integration (+) = signals summed

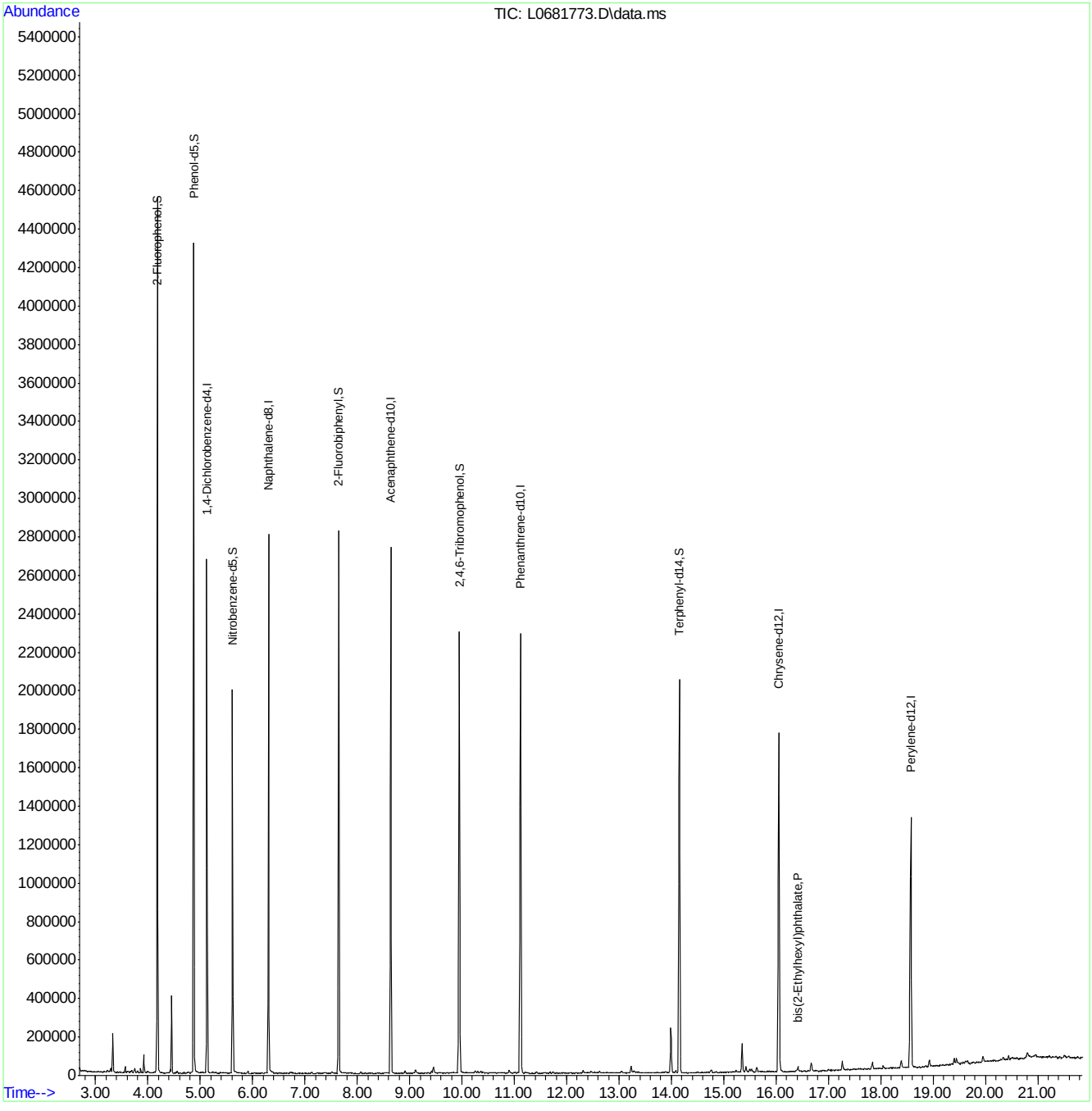
7.1.15

7

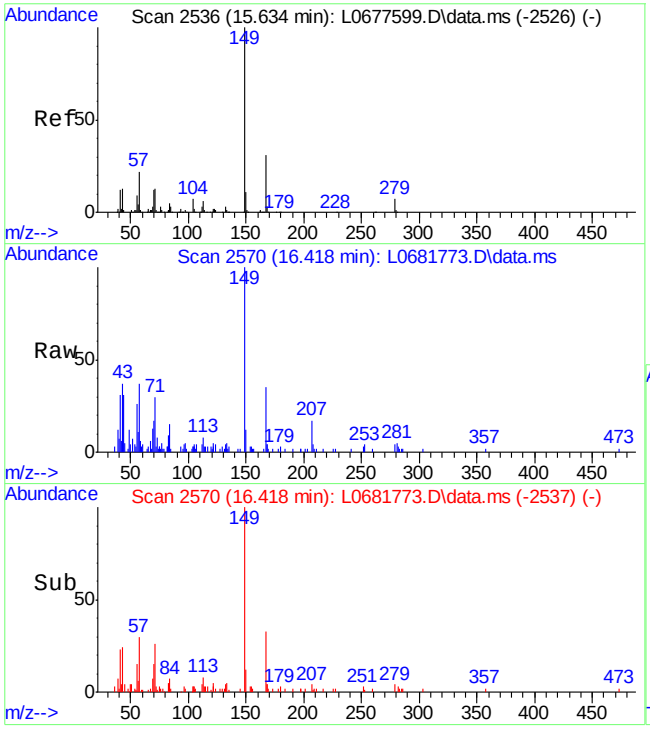
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\sl3632\
Data File : L0681773.D
Acq On : 7 Apr 2015 7:00 pm
Operator : marthav
Sample : fa23258-27
Misc : op55582,sl3632,30.4,,,1,1,soil
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Apr 08 09:56:18 2015
Quant Method : C:\msdchem\1\METHODS\8270da0402.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Thu Apr 02 15:27:09 2015
Response via : Initial Calibration



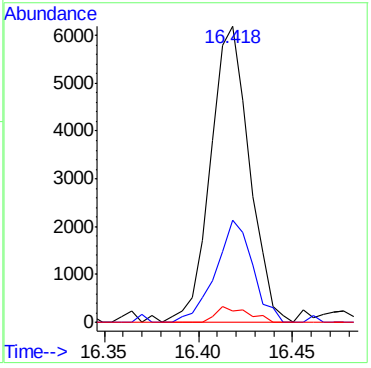
7.1.15
7
ACCUTEST LABORATORIES
FA23258



#92
bis(2-Ethylhexyl)phthalate
Concen: 0.52 ppm
RT: 16.418 min Scan# 2570
Delta R.T. -0.026 min
Lab File: L0681773.D
Acq: 7 Apr 2015 7:00 pm

Tgt Ion:149 Resp: 8840

Ion	Ratio	Lower	Upper
149	100		
167	38.5	1.1	61.1
279	4.0	0.0	34.6



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\sl3632\
Data File : L0681774.D
Acq On : 7 Apr 2015 7:27 pm
Operator : marthav
Sample : fa23258-29
Misc : op55582,sl3632,30.5,,,1,1,soil
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Apr 08 09:56:59 2015
Quant Method : C:\msdchem\1\METHODS\8270da0402.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Thu Apr 02 15:27:09 2015
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	5.125	152	424991	40.00	ppm	-0.02
22) Naphthalene-d8	6.300	136	1396486	40.00	ppm	-0.03
42) Acenaphthene-d10	8.640	164	851941	40.00	ppm	-0.03
68) Phenanthrene-d10	11.119	188	1213559	40.00	ppm	-0.03
84) Chrysene-d12	16.055	240	928935	40.00	ppm	-0.03
93) Perylene-d12	18.577	264	747024	40.00	ppm	-0.02

System Monitoring Compounds

7) 2-Fluorophenol	4.185	112	1078854	64.56	ppm	0.00
Spiked Amount 100.000	Range 40 - 102		Recovery = 64.56%			
9) Phenol-d5	4.874	99	1404301	78.43	ppm	-0.02
Spiked Amount 100.000	Range 41 - 100		Recovery = 78.43%			
23) Nitrobenzene-d5	5.617	82	653679	42.39	ppm	-0.02
Spiked Amount 50.000	Range 40 - 105		Recovery = 84.78%			
46) 2-Fluorobiphenyl	7.647	172	1111849	39.89	ppm	-0.03
Spiked Amount 50.000	Range 43 - 107		Recovery = 79.78%			
73) 2,4,6-Tribromophenol	9.949	330	450254	100.83	ppm	-0.03
Spiked Amount 100.000	Range 42 - 108		Recovery = 100.83%			
87) Terphenyl-d14	14.153	244	1098042	51.00	ppm	-0.03
Spiked Amount 50.000	Range 45 - 119		Recovery = 102.00%			

Target Compounds						Qvalue
66) Diethylphthalate	9.452	149	9031	0.32	ppm	80
92) bis(2-Ethylhexyl)phtha...	16.418	149	29180	1.62	ppm	93

(#) = qualifier out of range (m) = manual integration (+) = signals summed

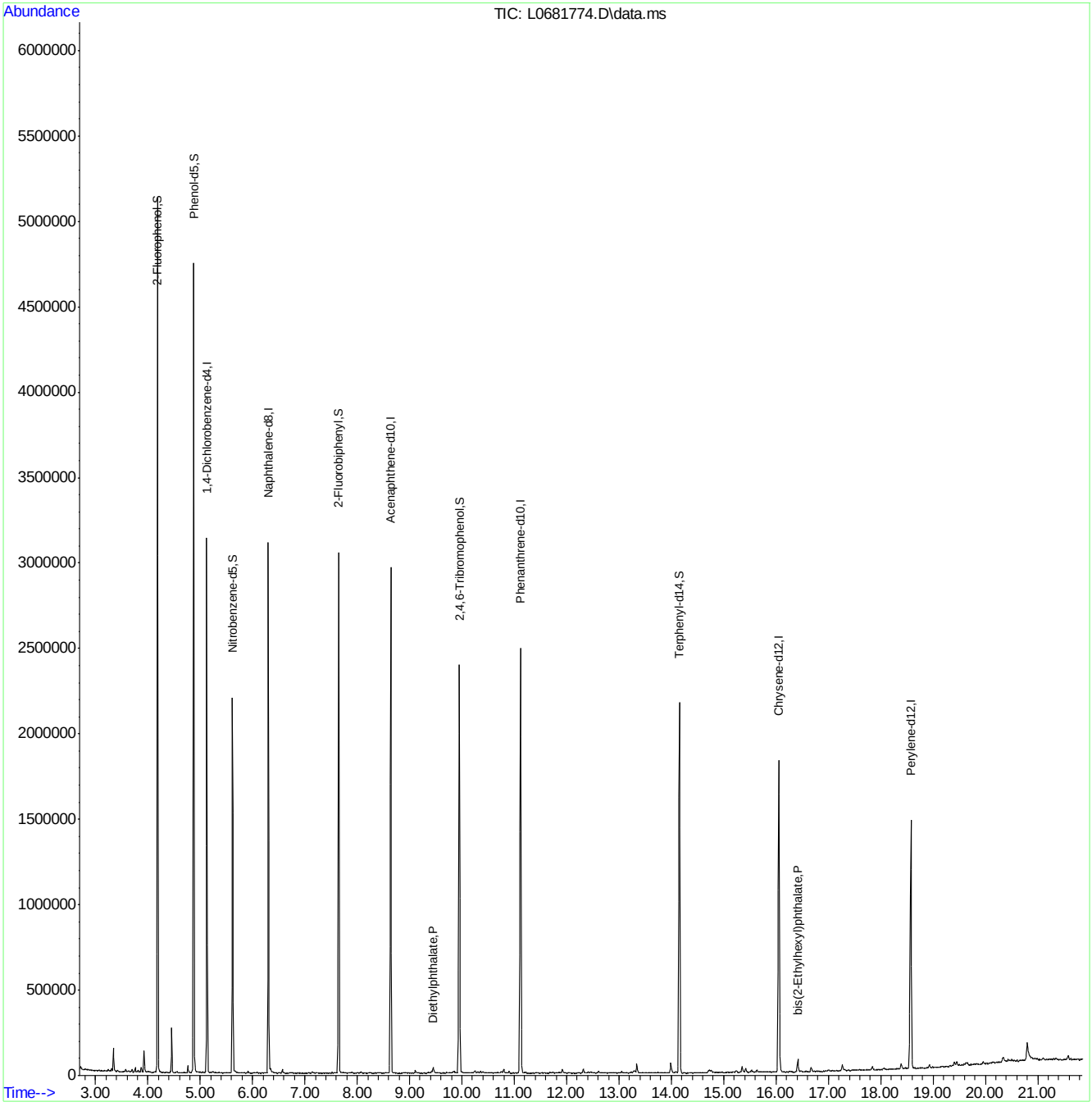
7.1.16

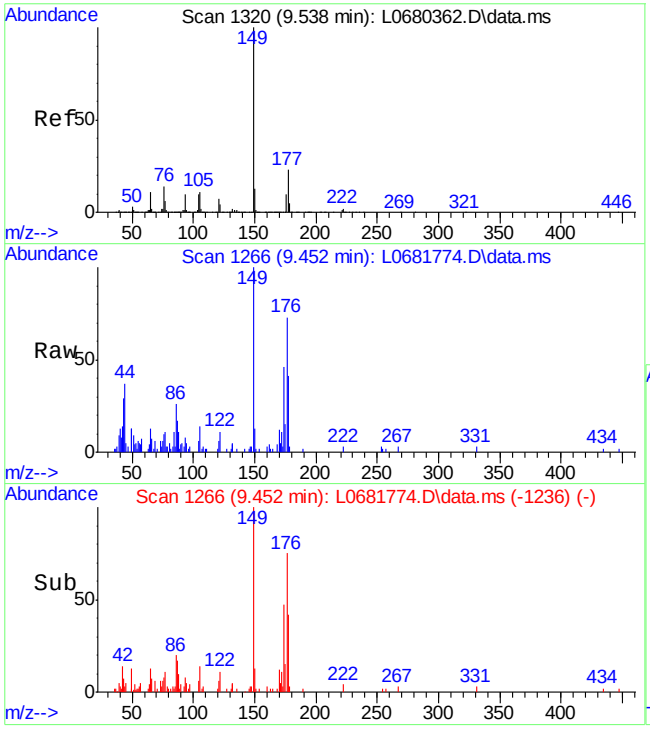
7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\sl3632\
Data File : L0681774.D
Acq On : 7 Apr 2015 7:27 pm
Operator : marthav
Sample : fa23258-29
Misc : op55582,sl3632,30.5,,,1,1,soil
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Apr 08 09:56:59 2015
Quant Method : C:\msdchem\1\METHODS\8270da0402.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Thu Apr 02 15:27:09 2015
Response via : Initial Calibration

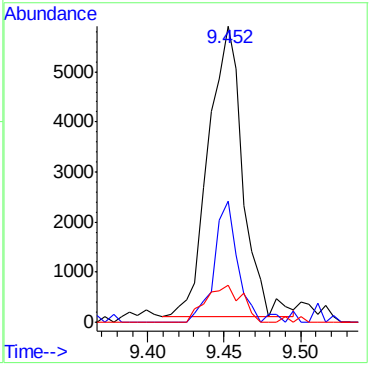


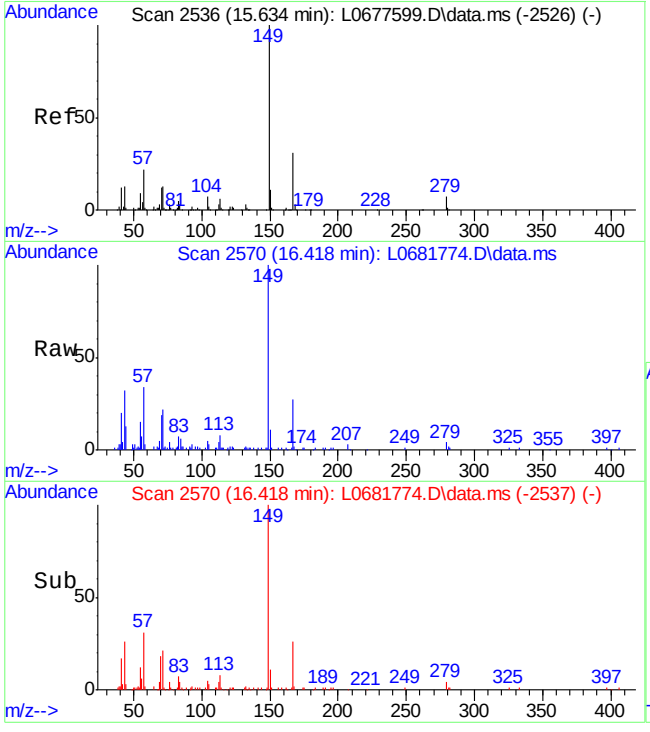


#66
Diethylphthalate
Concen: 0.32 ppm
RT: 9.452 min Scan# 1266
Delta R.T. -0.042 min
Lab File: L0681774.D
Acq: 7 Apr 2015 7:27 pm

Tgt Ion:149 Resp: 9031

Ion	Ratio	Lower	Upper
149	100		
177	40.2	0.0	55.1
150	13.1	0.0	43.3

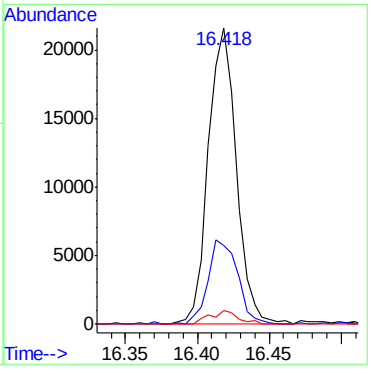




#92
bis(2-Ethylhexyl)phthalate
Concen: 1.62 ppm
RT: 16.418 min Scan# 2570
Delta R.T. -0.026 min
Lab File: L0681774.D
Acq: 7 Apr 2015 7:27 pm

Tgt Ion:149 Resp: 29180

Ion	Ratio	Lower	Upper
149	100		
167	26.5	1.1	61.1
279	4.4	0.0	34.6



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\sl3632\
Data File : L0681775.D
Acq On : 7 Apr 2015 7:54 pm
Operator : marthav
Sample : fa23258-31
Misc : op55582,sl3632,30.0,,,1,1,soil
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Apr 08 09:58:08 2015
Quant Method : C:\msdchem\1\METHODS\8270da0402.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Thu Apr 02 15:27:09 2015
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	5.126	152	422388	40.00	ppm	-0.02
22) Naphthalene-d8	6.302	136	1391162	40.00	ppm	-0.02
42) Acenaphthene-d10	8.642	164	821168	40.00	ppm	-0.02
68) Phenanthrene-d10	11.120	188	1198481	40.00	ppm	-0.02
84) Chrysene-d12	16.056	240	934181	40.00	ppm	-0.02
93) Perylene-d12	18.578	264	740679	40.00	ppm	-0.02

System Monitoring Compounds						
7) 2-Fluorophenol	4.186	112	1034950	62.32	ppm	0.00
Spiked Amount 100.000	Range 40 - 102		Recovery = 62.32%			
9) Phenol-d5	4.875	99	1332311	74.86	ppm	-0.01
Spiked Amount 100.000	Range 41 - 100		Recovery = 74.86%			
23) Nitrobenzene-d5	5.618	82	605725	39.43	ppm	-0.02
Spiked Amount 50.000	Range 40 - 105		Recovery = 78.86%			
46) 2-Fluorobiphenyl	7.643	172	1044857	38.89	ppm	-0.03
Spiked Amount 50.000	Range 43 - 107		Recovery = 77.78%			
73) 2,4,6-Tribromophenol	9.950	330	420978	95.46	ppm	-0.03
Spiked Amount 100.000	Range 42 - 108		Recovery = 95.46%			
87) Terphenyl-d14	14.155	244	1016399	46.94	ppm	-0.02
Spiked Amount 50.000	Range 45 - 119		Recovery = 93.88%			

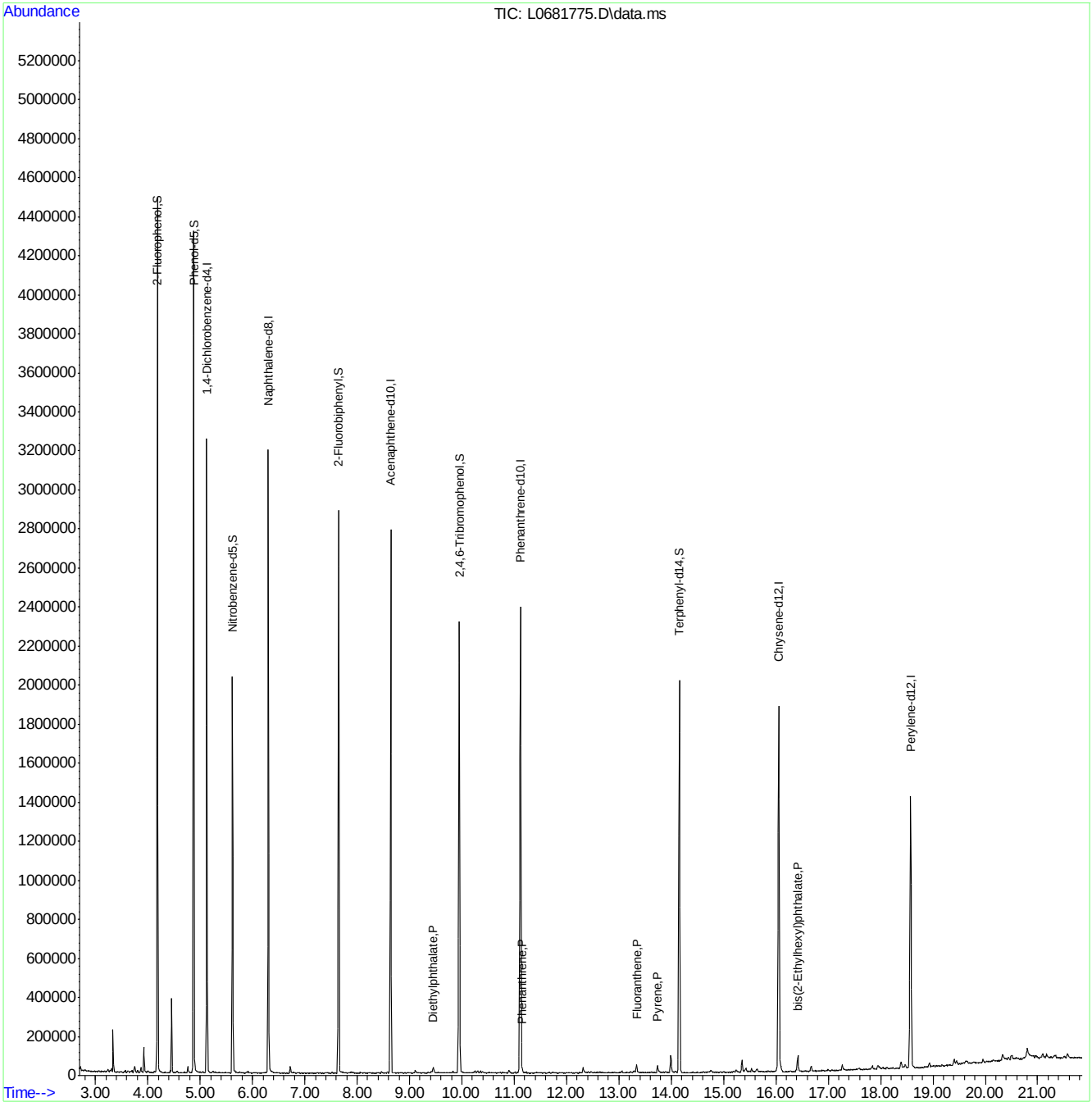
Target Compounds						Qvalue
66) Diethylphthalate	9.454	149	8135	0.30	ppm	97
79) Phenanthrene	11.152	178	10070	0.32	ppm	89
83) Fluoranthene	13.337	202	21996	0.63	ppm	91
86) Pyrene	13.738	202	18082	0.58	ppm	90
92) bis(2-Ethylhexyl)phtha...	16.420	149	31114	1.71	ppm	96

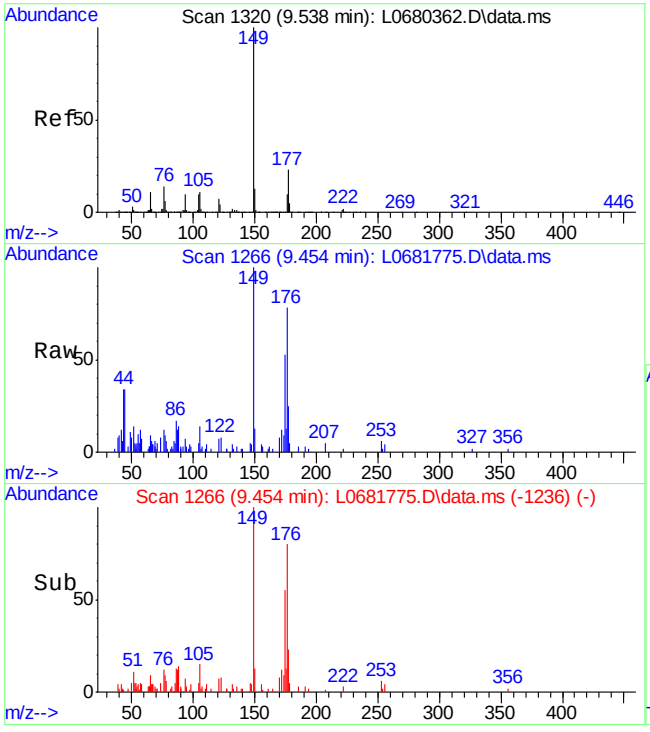
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\sl3632\
Data File : L0681775.D
Acq On : 7 Apr 2015 7:54 pm
Operator : marthav
Sample : fa23258-31
Misc : op55582,sl3632,30.0,,,1,1,soil
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Apr 08 09:58:08 2015
Quant Method : C:\msdchem\1\METHODS\8270da0402.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Thu Apr 02 15:27:09 2015
Response via : Initial Calibration

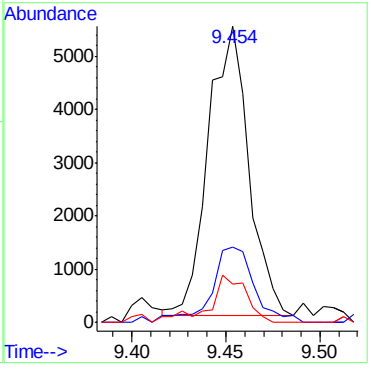


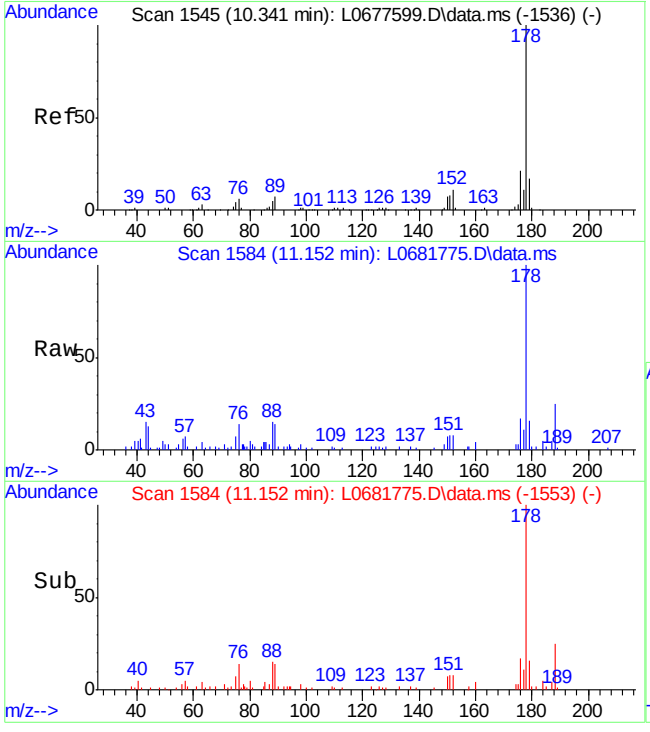


#66
Diethylphthalate
Concen: 0.30 ppm
RT: 9.454 min Scan# 1266
Delta R.T. -0.041 min
Lab File: L0681775.D
Acq: 7 Apr 2015 7:54 pm

Tgt Ion:149 Resp: 8135

Ion	Ratio	Lower	Upper
149	100		
177	23.9	0.0	55.1
150	12.2	0.0	43.3

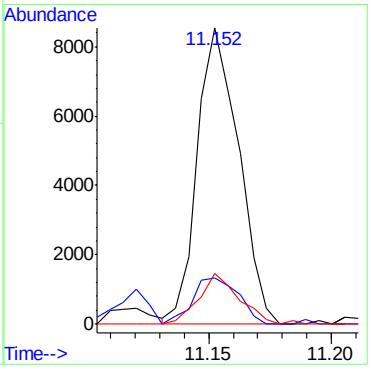


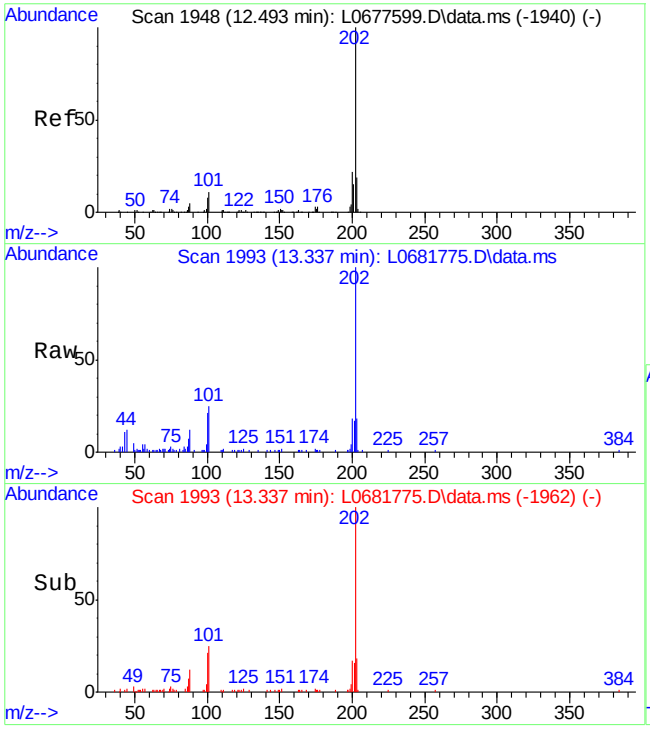


#79
Phenanthrene
Concen: 0.32 ppm
RT: 11.152 min Scan# 1584
Delta R.T. -0.035 min
Lab File: L0681775.D
Acq: 7 Apr 2015 7:54 pm

Tgt Ion:178 Resp: 10070

Ion	Ratio	Lower	Upper
178	100		
179	15.8	0.0	49.5
176	16.6	0.0	52.7

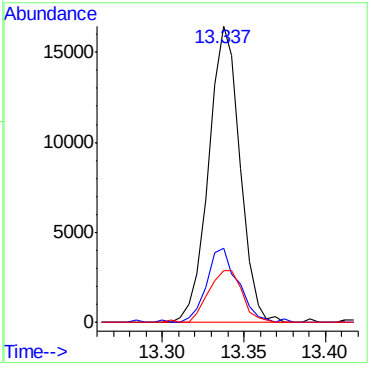


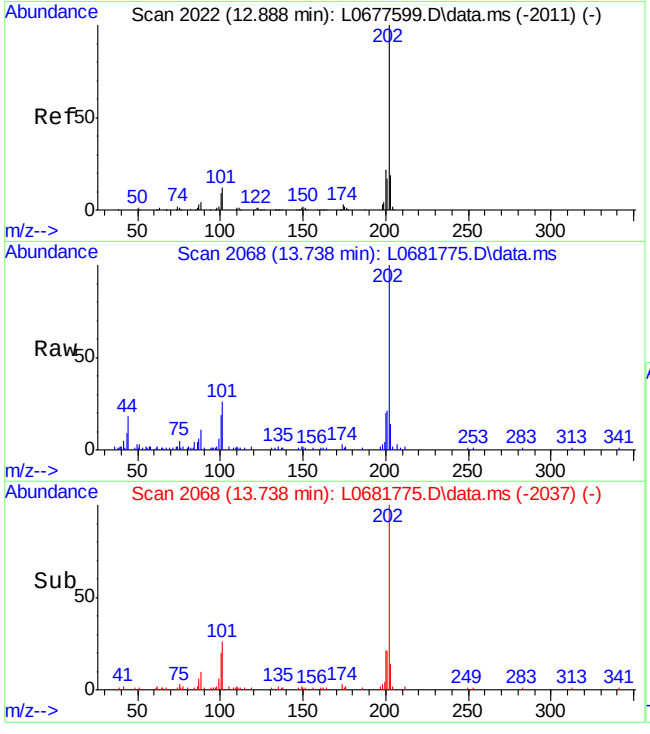


#83
Fluoranthene
Concen: 0.63 ppm
RT: 13.337 min Scan# 1993
Delta R.T. -0.035 min
Lab File: L0681775.D
Acq: 7 Apr 2015 7:54 pm

Tgt Ion:202 Resp: 21996

Ion	Ratio	Lower	Upper
202	100		
101	24.6	0.0	49.9
203	17.6	0.0	51.6

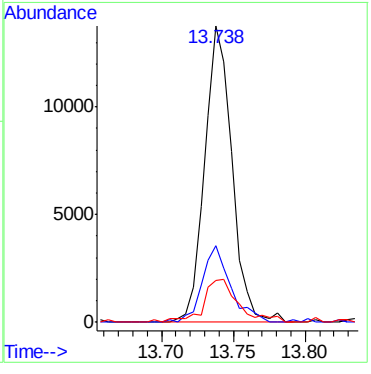


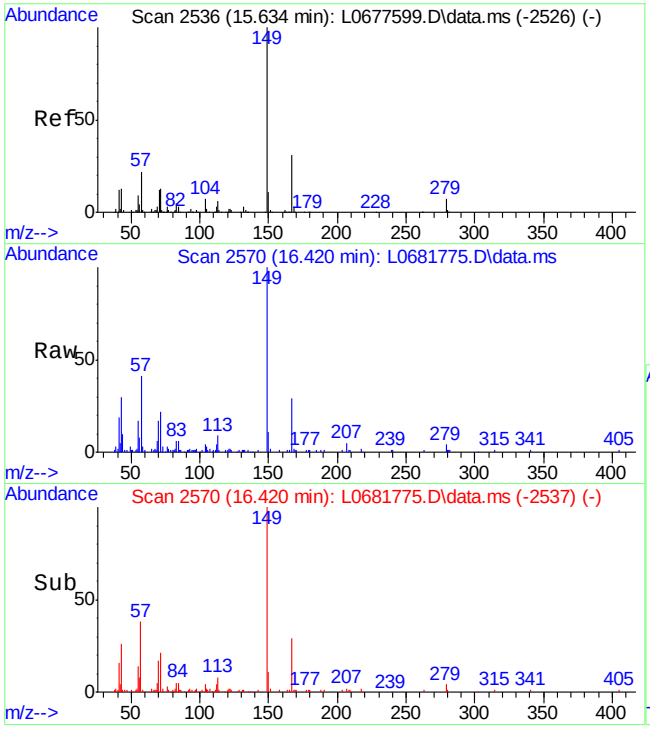


#86
Pyrene
Concen: 0.58 ppm
RT: 13.738 min Scan# 2068
Delta R.T. -0.035 min
Lab File: L0681775.D
Acq: 7 Apr 2015 7:54 pm

Tgt Ion:202 Resp: 18082

Ion	Ratio	Lower	Upper
202	100		
101	25.5	0.0	52.8
203	14.0	0.0	51.2

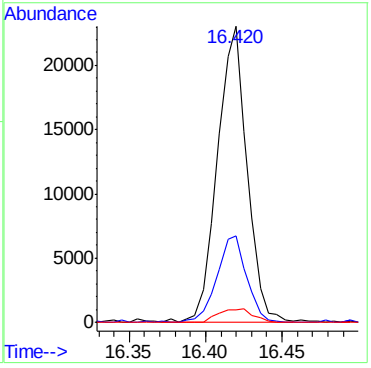




#92
bis(2-Ethylhexyl)phthalate
Concen: 1.71 ppm
RT: 16.420 min Scan# 2570
Delta R.T. -0.025 min
Lab File: L0681775.D
Acq: 7 Apr 2015 7:54 pm

Tgt Ion:149 Resp: 31114

Ion	Ratio	Lower	Upper
149	100		
167	29.0	1.1	61.1
279	4.2	0.0	34.6



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\sl3631\
Data File : L0681743.D
Acq On : 6 Apr 2015 5:21 pm
Operator : marthav
Sample : fa23258-33
Misc : op55582,sl3631,30.4,,,1,1,soil
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Apr 07 08:03:10 2015
Quant Method : C:\msdchem\1\METHODS\8270da0402.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Thu Apr 02 15:27:09 2015
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	5.143	152	317321	40.00	ppm	0.00
22) Naphthalene-d8	6.324	136	1127755	40.00	ppm	0.00
42) Acenaphthene-d10	8.663	164	630782	40.00	ppm	0.00
68) Phenanthrene-d10	11.142	188	911396	40.00	ppm	0.00
84) Chrysene-d12	16.078	240	672003	40.00	ppm	0.00
93) Perylene-d12	18.594	264	534787	40.00	ppm	0.00

System Monitoring Compounds

7) 2-Fluorophenol	4.197	112	744785	59.70	ppm	0.00
Spiked Amount 100.000	Range 40 - 102		Recovery = 59.70%			
9) Phenol-d5	4.886	99	985704	73.73	ppm	0.00
Spiked Amount 100.000	Range 41 - 100		Recovery = 73.73%			
23) Nitrobenzene-d5	5.634	82	430896	34.60	ppm	0.00
Spiked Amount 50.000	Range 40 - 105		Recovery = 69.20%			
46) 2-Fluorobiphenyl	7.664	172	736501	35.69	ppm	0.00
Spiked Amount 50.000	Range 43 - 107		Recovery = 71.38%			
73) 2,4,6-Tribromophenol	9.972	330	275670	82.20	ppm	0.00
Spiked Amount 100.000	Range 42 - 108		Recovery = 82.20%			
87) Terphenyl-d14	14.176	244	660788	42.43	ppm	0.00
Spiked Amount 50.000	Range 45 - 119		Recovery = 84.86%			

Target Compounds						Qvalue
92) bis(2-Ethylhexyl)phtha...	16.436	149	36487	2.79	ppm	94

(#) = qualifier out of range (m) = manual integration (+) = signals summed

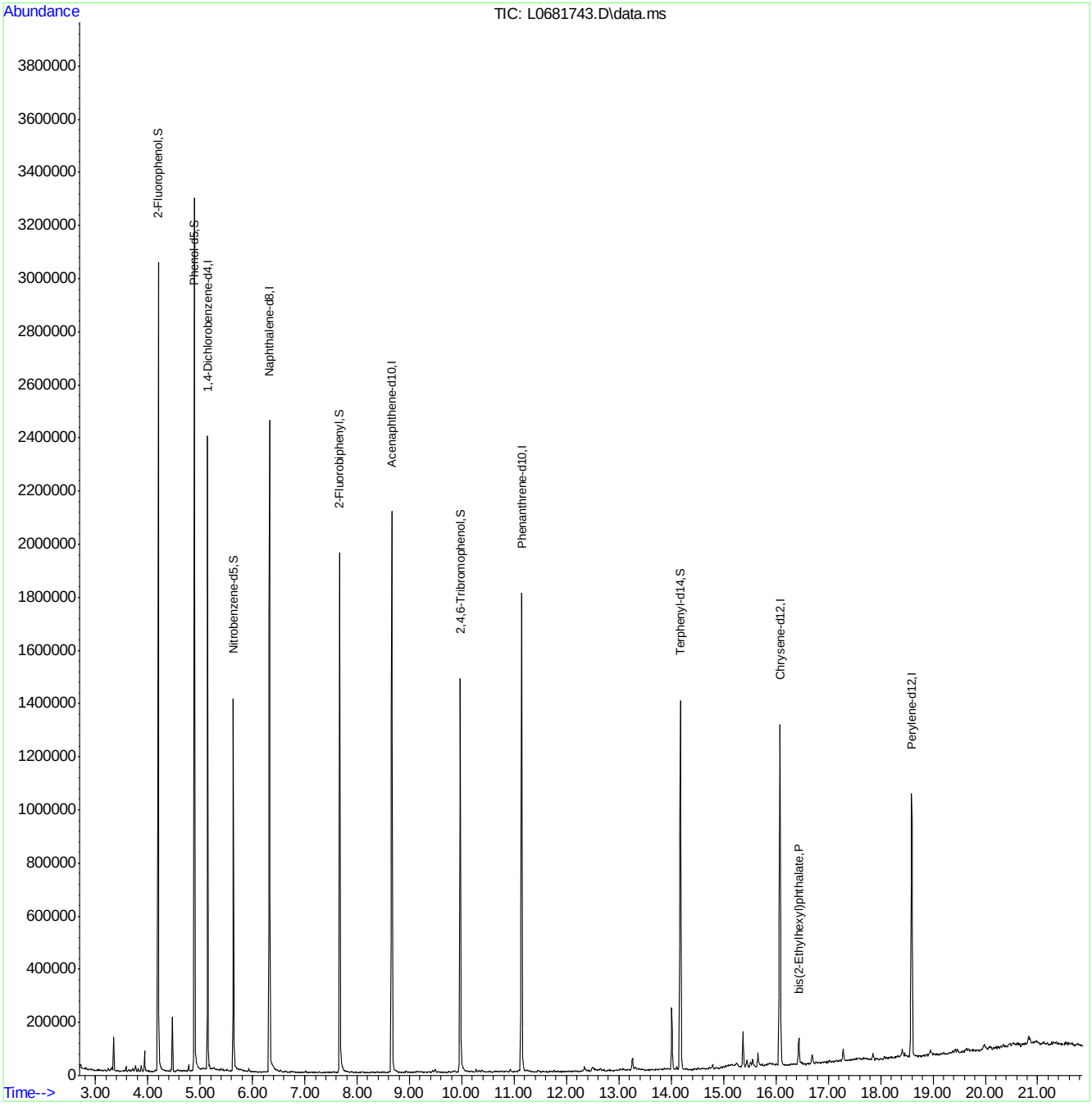
7.1.18

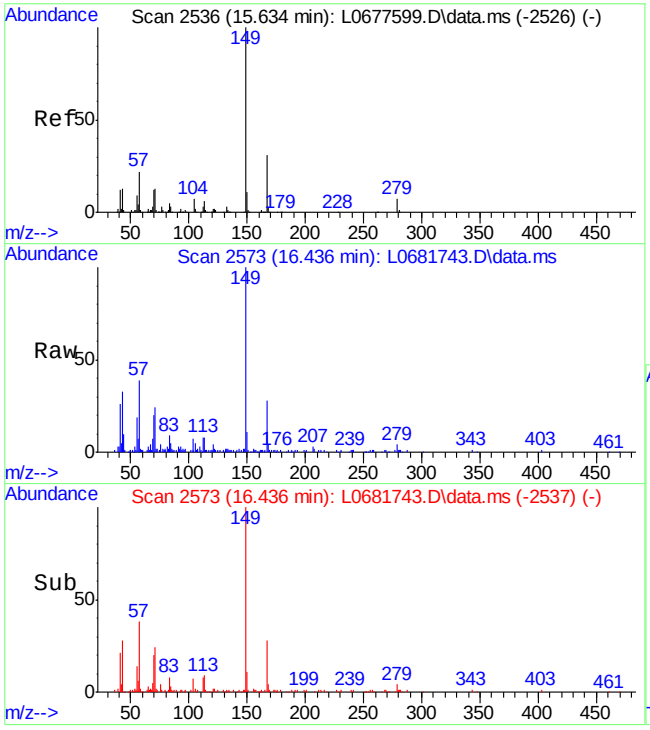
7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\sl3631\
Data File : L0681743.D
Acq On : 6 Apr 2015 5:21 pm
Operator : marthav
Sample : fa23258-33
Misc : op55582,sl3631,30.4,,,1,1,soil
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Apr 07 08:03:10 2015
Quant Method : C:\msdchem\1\METHODS\8270da0402.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Thu Apr 02 15:27:09 2015
Response via : Initial Calibration

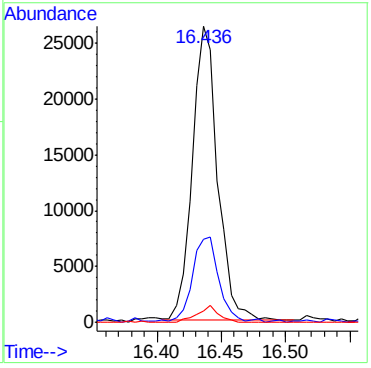




#92
bis(2-Ethylhexyl)phthalate
Concen: 2.79 ppm
RT: 16.436 min Scan# 2573
Delta R.T. -0.008 min
Lab File: L0681743.D
Acq: 6 Apr 2015 5:21 pm

Tgt Ion:149 Resp: 36487

Ion	Ratio	Lower	Upper
149	100		
167	27.6	1.1	61.1
279	3.9	0.0	34.6



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\sx1833\
Data File : x039451.D
Acq On : 8 Apr 2015 6:25 pm
Operator : marthav
Sample : fa23258-35
Misc : op55584,sx1833,30.3,,,1,1,soil
ALS Vial : 35 Sample Multiplier: 1

Quant Time: Apr 09 11:03:30 2015
Quant Method : C:\msdchem\1\METHODS\8270d_03302.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Tue Mar 31 09:29:41 2015
Response via : Initial Calibration

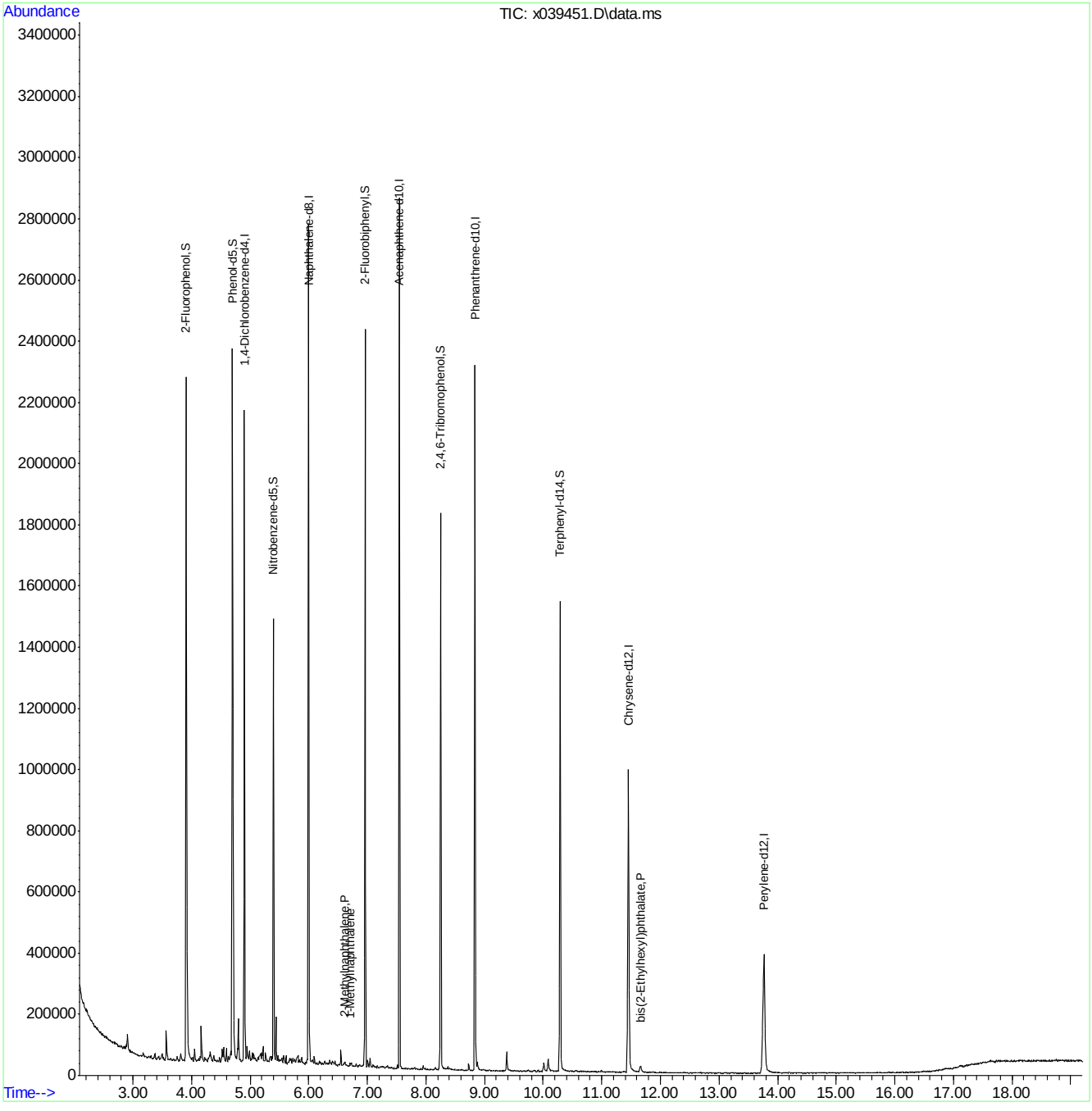
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 1,4-Dichlorobenzene-d4	4.903	152	235314	40.00 ppm	0.00
22) Naphthalene-d8	5.997	136	883548	40.00 ppm	0.00
41) Acenaphthene-d10	7.545	164	485185	40.00 ppm	0.00
67) Phenanthrene-d10	8.838	188	723467	40.00 ppm	0.00
83) Chrysene-d12	11.455	240	484934	40.00 ppm	0.04
92) Perylene-d12	13.765	264	306142	40.00 ppm	0.10
System Monitoring Compounds					
5) 2-Fluorophenol	3.905	112	587941	69.79 ppm	0.00
Spiked Amount 100.000	Range 40 - 102		Recovery = 69.79%		
9) Phenol-d5	4.698	99	739518	86.31 ppm	0.00
Spiked Amount 100.000	Range 41 - 100		Recovery = 86.31%		
23) Nitrobenzene-d5	5.397	82	328394	35.09 ppm	-0.02
Spiked Amount 50.000	Range 40 - 105		Recovery = 70.18%		
45) 2-Fluorobiphenyl	6.960	172	562354	34.20 ppm	0.00
Spiked Amount 50.000	Range 43 - 107		Recovery = 68.40%		
72) 2,4,6-Tribromophenol	8.250	330	108885	67.00 ppm	0.00
Spiked Amount 100.000	Range 42 - 108		Recovery = 67.00%		
86) Terphenyl-d14	10.287	244	506618	45.72 ppm	0.06
Spiked Amount 50.000	Range 45 - 119		Recovery = 91.44%		
Target Compounds					Qvalue
38) 2-Methylnaphthalene	6.616	142	2801	0.17 ppm	84
39) 1-Methylnaphthalene	6.710	142	1671	0.12 ppm	96
91) bis(2-Ethylhexyl)phtha...	11.657	149	10305	0.91 ppm	91

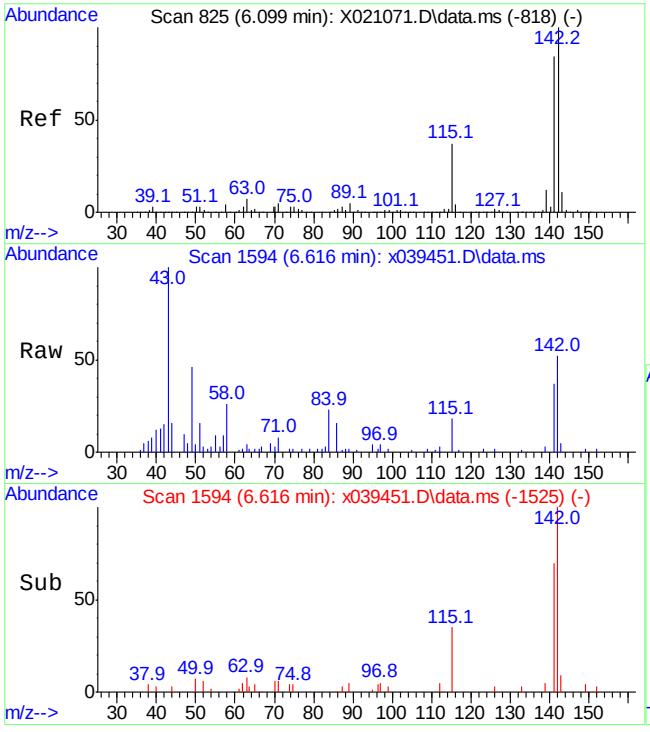
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\sx1833\
Data File : x039451.D
Acq On : 8 Apr 2015 6:25 pm
Operator : marthav
Sample : fa23258-35
Misc : op55584,sx1833,30.3,,,1,1,soil
ALS Vial : 35 Sample Multiplier: 1

Quant Time: Apr 09 11:03:30 2015
Quant Method : C:\msdchem\1\METHODS\8270d_03302.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Tue Mar 31 09:29:41 2015
Response via : Initial Calibration

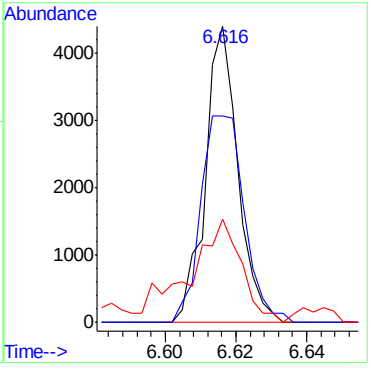


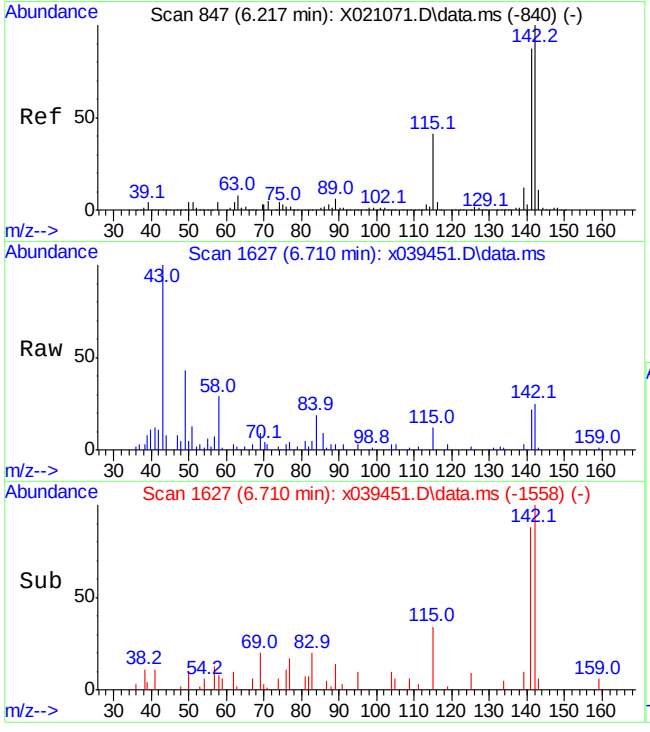


#38
2-Methylnaphthalene
Concen: 0.17 ppm
RT: 6.616 min Scan# 1594
Delta R.T. -0.004 min
Lab File: x039451.D
Acq: 8 Apr 2015 6:25 pm

Tgt Ion:142 Resp: 2801

Ion	Ratio	Lower	Upper
142	100		
141	69.6	54.3	114.3
115	28.9	7.3	67.3

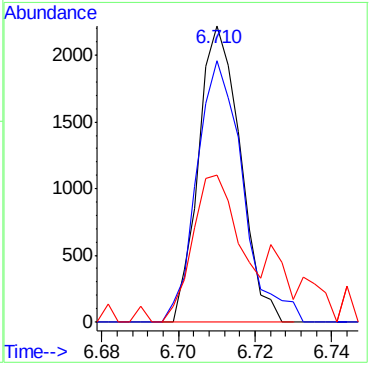


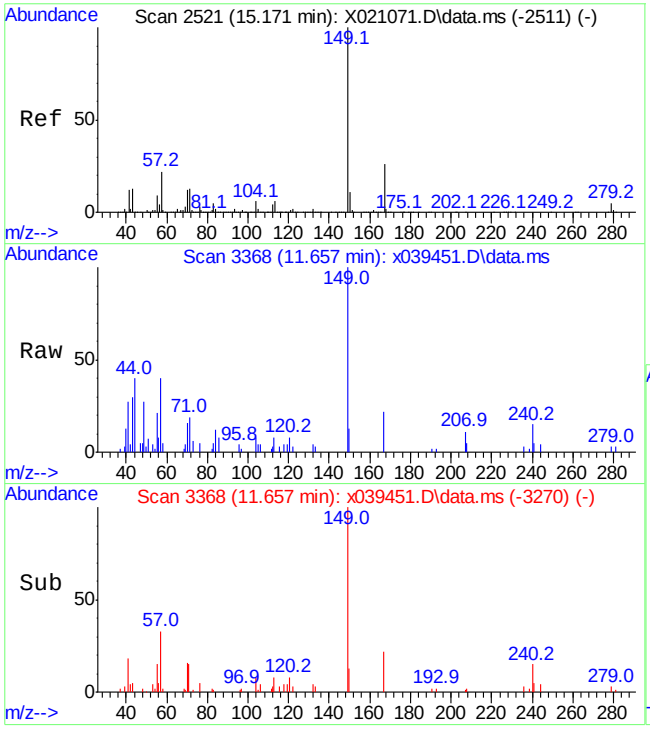


#39
1-Methylnaphthalene
Concen: 0.12 ppm
RT: 6.710 min Scan# 1627
Delta R.T. -0.004 min
Lab File: x039451.D
Acq: 8 Apr 2015 6:25 pm

Tgt Ion:142 Resp: 1671

Ion	Ratio	Lower	Upper
142	100		
141	84.9	57.2	117.2
115	46.1	10.8	70.8

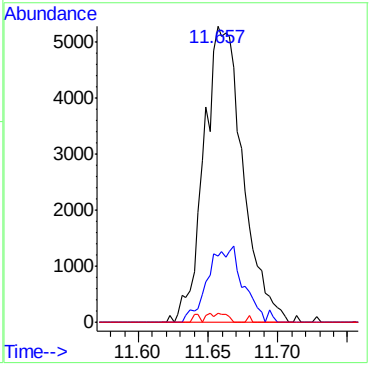




#91
bis(2-Ethylhexyl)phthalate
Concen: 0.91 ppm
RT: 11.657 min Scan# 3368
Delta R.T. 0.077 min
Lab File: x039451.D
Acq: 8 Apr 2015 6:25 pm

Tgt Ion:149 Resp: 10305

Ion	Ratio	Lower	Upper
149	100		
167	22.5	0.0	57.8
279	3.2	0.0	34.9



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\sx1832\
Data File : x039423.D
Acq On : 7 Apr 2015 3:29 pm
Operator : marthav
Sample : fa23258-37
Misc : op55584,sx1832,30.2,,,1,1,soil
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Apr 08 14:26:55 2015
Quant Method : C:\msdchem\1\METHODS\8270d_03302.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Tue Mar 31 09:29:41 2015
Response via : Initial Calibration

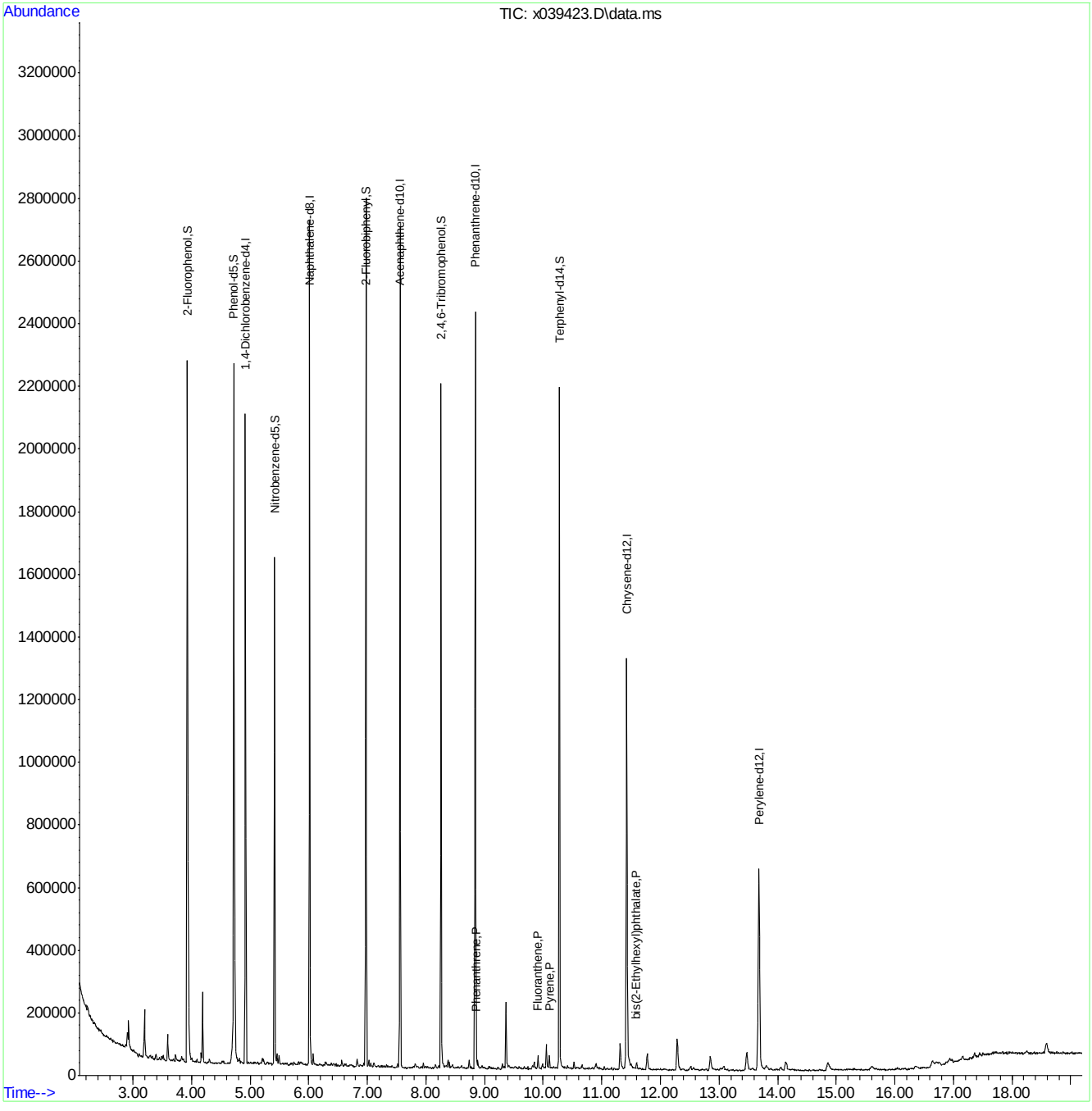
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.920	152	239469	40.00	ppm	0.00
22) Naphthalene-d8	6.017	136	892263	40.00	ppm	0.00
41) Acenaphthene-d10	7.557	164	473267	40.00	ppm	-0.01
67) Phenanthrene-d10	8.841	188	699639	40.00	ppm	-0.01
83) Chrysene-d12	11.427	240	510606	40.00	ppm	-0.02
92) Perylene-d12	13.683	264	356172	40.00	ppm	-0.02
System Monitoring Compounds						
5) 2-Fluorophenol	3.925	112	638935	74.52	ppm	0.00
Spiked Amount 100.000	Range 40 - 102		Recovery = 74.52%			
9) Phenol-d5	4.718	99	810313	92.93	ppm	0.00
Spiked Amount 100.000	Range 41 - 100		Recovery = 92.93%			
23) Nitrobenzene-d5	5.417	82	359377	38.02	ppm	-0.02
Spiked Amount 50.000	Range 40 - 105		Recovery = 76.04%			
45) 2-Fluorobiphenyl	6.974	172	645464	40.24	ppm	0.00
Spiked Amount 50.000	Range 43 - 107		Recovery = 80.48%			
72) 2,4,6-Tribromophenol	8.259	330	128212	81.58	ppm	-0.01
Spiked Amount 100.000	Range 42 - 108		Recovery = 81.58%			
86) Terphenyl-d14	10.276	244	594007	50.91	ppm	0.01
Spiked Amount 50.000	Range 45 - 119		Recovery = 101.82%			
Target Compounds						Qvalue
78) Phenanthrene	8.861	178	5339	0.26	ppm	93
82) Fluoranthene	9.909	202	11228	0.53	ppm	93
85) Pyrene	10.105	202	11265	0.60	ppm	91
91) bis(2-Ethylhexyl)phtha...	11.589	149	6278	0.53	ppm	88

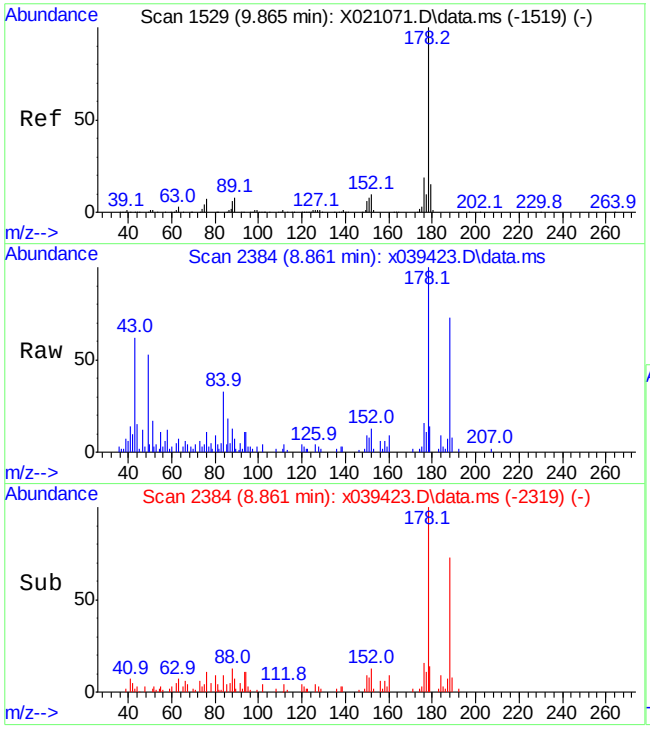
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\sx1832\
Data File : x039423.D
Acq On : 7 Apr 2015 3:29 pm
Operator : marthav
Sample : fa23258-37
Misc : op55584,sx1832,30.2,,,1,1,soil
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Apr 08 14:26:55 2015
Quant Method : C:\msdchem\1\METHODS\8270d_03302.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Tue Mar 31 09:29:41 2015
Response via : Initial Calibration

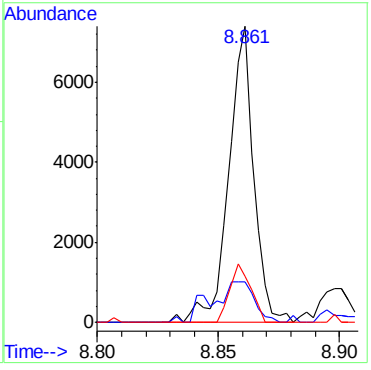


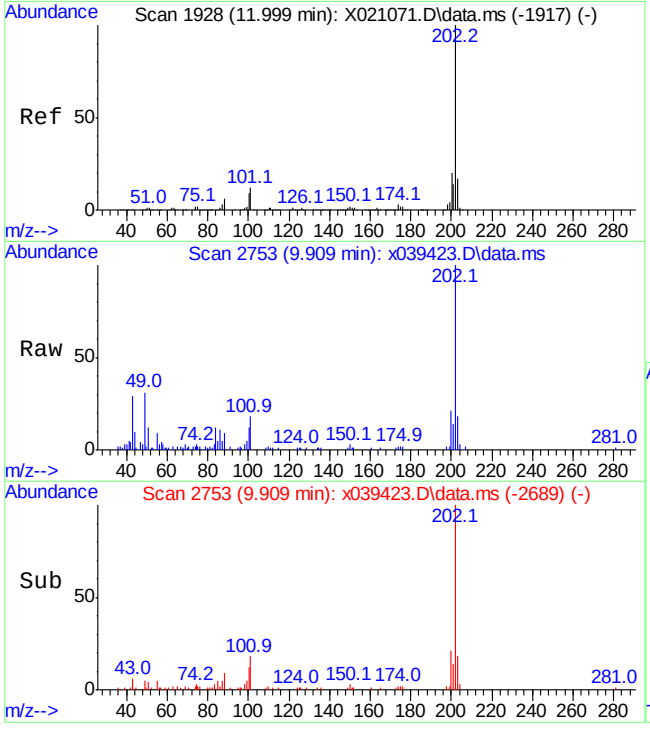


#78
Phenanthrene
Concen: 0.26 ppm
RT: 8.861 min Scan# 2384
Delta R.T. -0.014 min
Lab File: x039423.D
Acq: 7 Apr 2015 3:29 pm

Tgt Ion:178 Resp: 5339

Ion	Ratio	Lower	Upper
178	100		
179	12.6	0.0	45.2
176	15.7	0.0	48.9

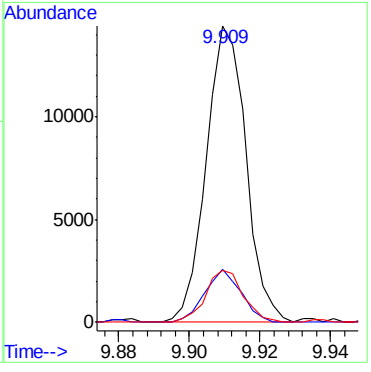


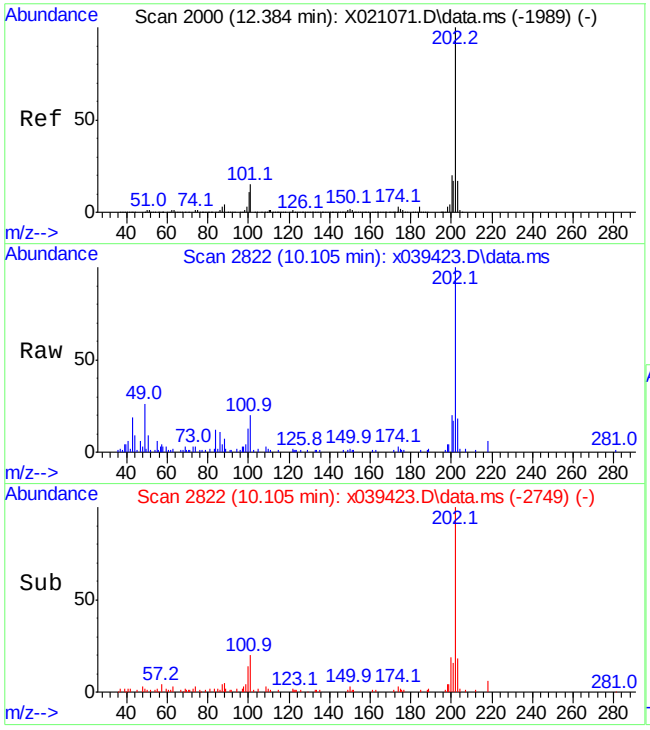


#82
Fluoranthene
Concen: 0.53 ppm
RT: 9.909 min Scan# 2753
Delta R.T. -0.017 min
Lab File: x039423.D
Acq: 7 Apr 2015 3:29 pm

Tgt Ion:202 Resp: 11228

Ion	Ratio	Lower	Upper
202	100		
101	17.8	0.0	42.5
203	17.6	0.0	46.8

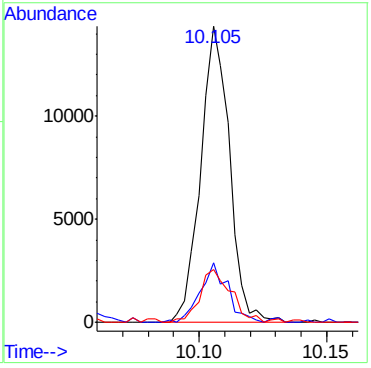


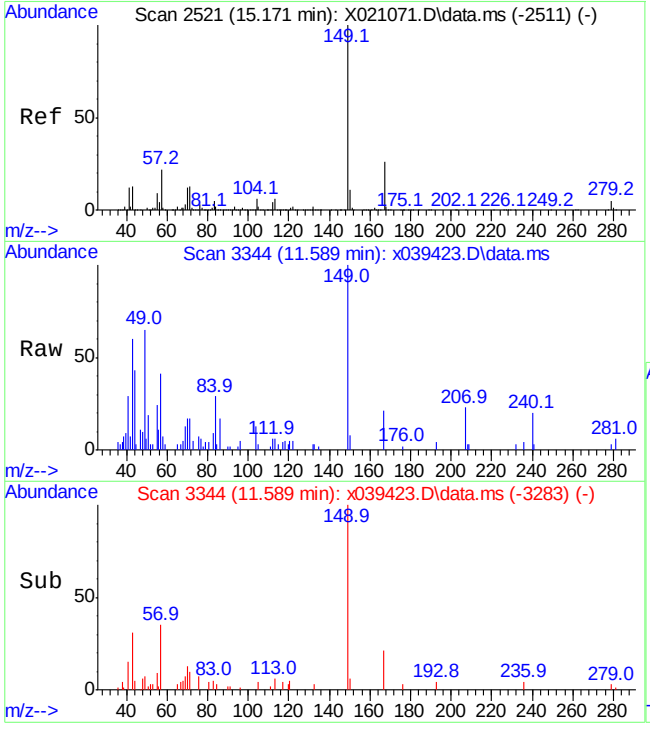


#85
Pyrene
Concen: 0.60 ppm
RT: 10.105 min Scan# 2822
Delta R.T. 0.007 min
Lab File: x039423.D
Acq: 7 Apr 2015 3:29 pm

Tgt Ion:202 Resp: 11265

Ion	Ratio	Lower	Upper
202	100		
101	19.9	0.0	51.8
203	17.4	0.0	54.0

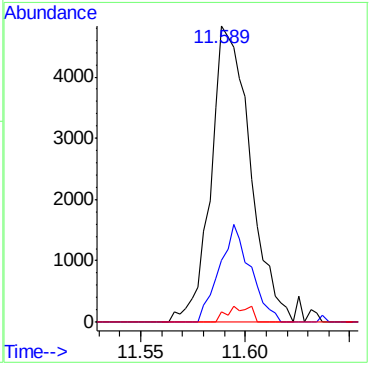




#91
bis(2-Ethylhexyl)phthalate
Concen: 0.53 ppm
RT: 11.589 min Scan# 3344
Delta R.T. -0.026 min
Lab File: x039423.D
Acq: 7 Apr 2015 3:29 pm

Tgt Ion:149 Resp: 6278

Ion	Ratio	Lower	Upper
149	100		
167	20.8	0.0	57.8
279	3.4	0.0	34.9



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\sx1832\
Data File : x039424.D
Acq On : 7 Apr 2015 3:54 pm
Operator : marthav
Sample : fa23258-39
Misc : op55584,sx1832,30.2,,,1,1,soil
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Apr 08 14:27:49 2015
Quant Method : C:\msdchem\1\METHODS\8270d_03302.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Tue Mar 31 09:29:41 2015
Response via : Initial Calibration

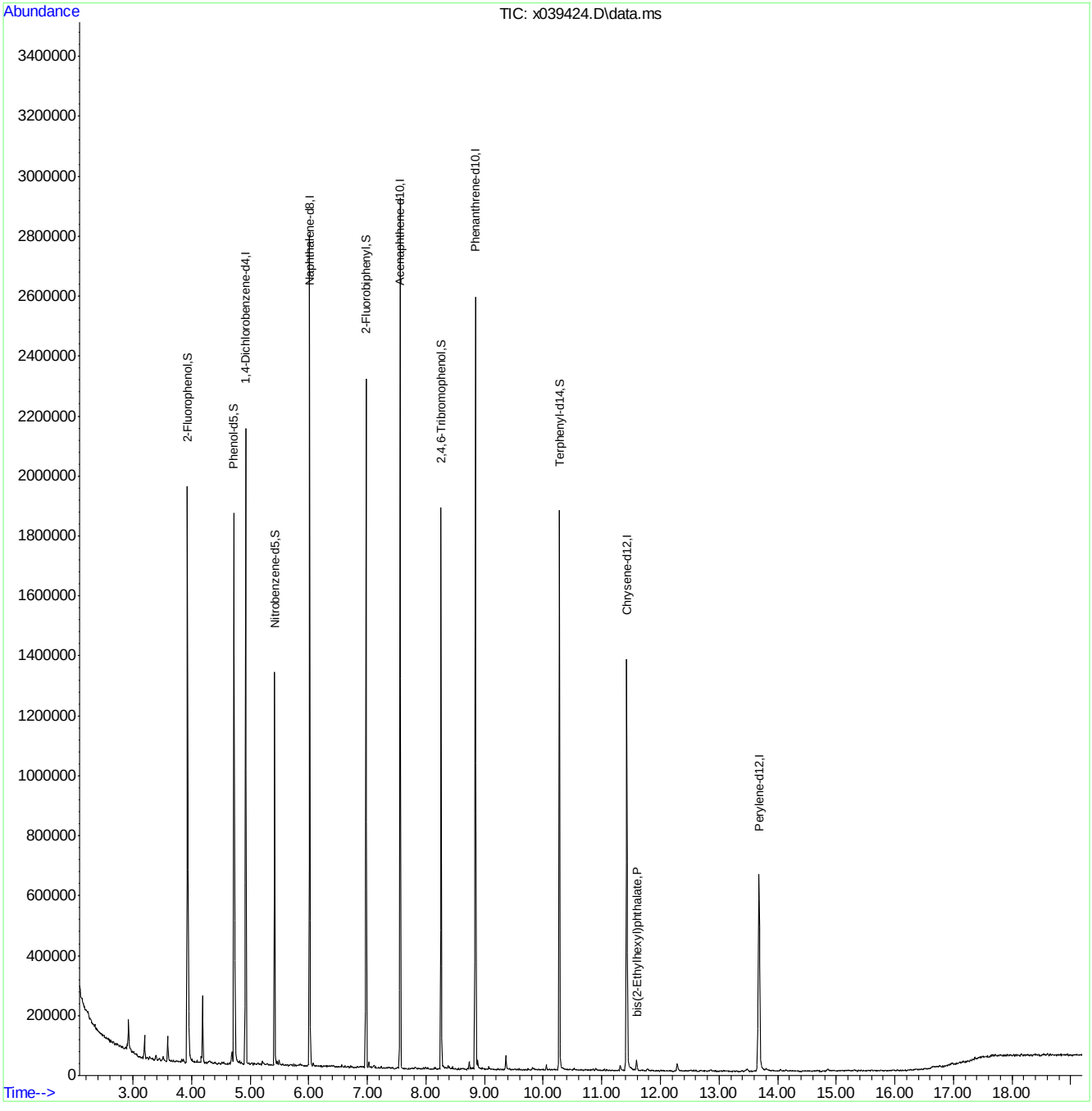
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.923	152	246463	40.00	ppm	0.00
22) Naphthalene-d8	6.016	136	936969	40.00	ppm	0.00
41) Acenaphthene-d10	7.559	164	489682	40.00	ppm	0.00
67) Phenanthrene-d10	8.844	188	748012	40.00	ppm	0.00
83) Chrysene-d12	11.427	240	526646	40.00	ppm	-0.02
92) Perylene-d12	13.685	264	370385	40.00	ppm	-0.02
System Monitoring Compounds						
5) 2-Fluorophenol	3.928	112	520188	58.95	ppm	0.00
Spiked Amount 100.000	Range 40 - 102		Recovery = 58.95%			
9) Phenol-d5	4.721	99	675734	75.30	ppm	0.00
Spiked Amount 100.000	Range 41 - 100		Recovery = 75.30%			
23) Nitrobenzene-d5	5.417	82	296381	29.86	ppm	-0.02
Spiked Amount 50.000	Range 40 - 105		Recovery = 59.72%			
45) 2-Fluorobiphenyl	6.977	172	525087	31.64	ppm	0.00
Spiked Amount 50.000	Range 43 - 107		Recovery = 63.28%			
72) 2,4,6-Tribromophenol	8.258	330	109955	65.44	ppm	-0.01
Spiked Amount 100.000	Range 42 - 108		Recovery = 65.44%			
86) Terphenyl-d14	10.276	244	525388	43.66	ppm	0.01
Spiked Amount 50.000	Range 45 - 119		Recovery = 87.32%			
Target Compounds						Qvalue
91) bis(2-Ethylhexyl)phtha...	11.594	149	10579	0.86	ppm	95

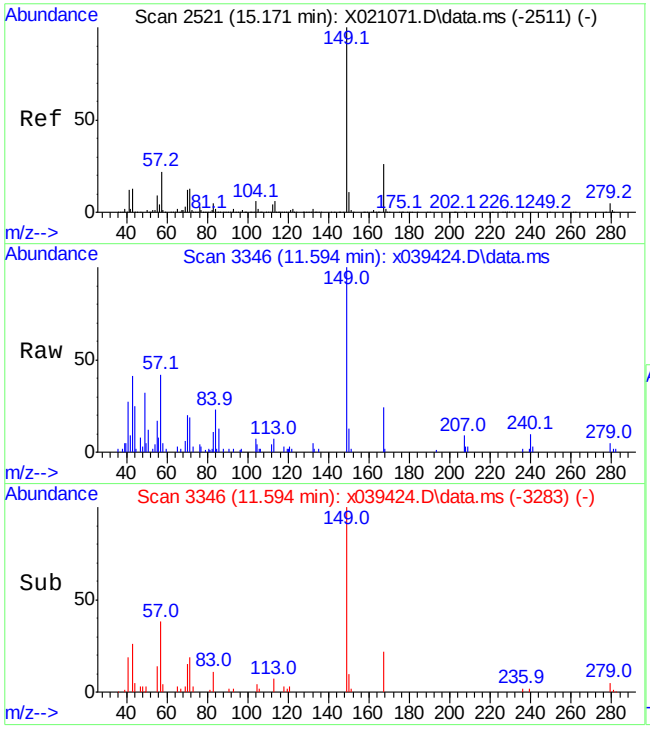
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\sx1832\
Data File : x039424.D
Acq On : 7 Apr 2015 3:54 pm
Operator : marthav
Sample : fa23258-39
Misc : op55584,sx1832,30.2,,,1,1,soil
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Apr 08 14:27:49 2015
Quant Method : C:\msdchem\1\METHODS\8270d_03302.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Tue Mar 31 09:29:41 2015
Response via : Initial Calibration

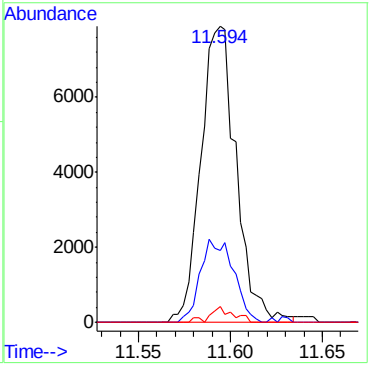




#91
bis(2-Ethylhexyl)phthalate
Concen: 0.86 ppm
RT: 11.594 min Scan# 3346
Delta R.T. -0.020 min
Lab File: x039424.D
Acq: 7 Apr 2015 3:54 pm

Tgt Ion:149 Resp: 10579

Ion	Ratio	Lower	Upper
149	100		
167	24.6	0.0	57.8
279	5.2	0.0	34.9



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\sx1832\
Data File : x039425.D
Acq On : 7 Apr 2015 4:19 pm
Operator : marthav
Sample : fa23258-41
Misc : op55584,sx1832,29.9,,,1,1,soil
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Apr 08 14:29:02 2015
Quant Method : C:\msdchem\1\METHODS\8270d_03302.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Tue Mar 31 09:29:41 2015
Response via : Initial Calibration

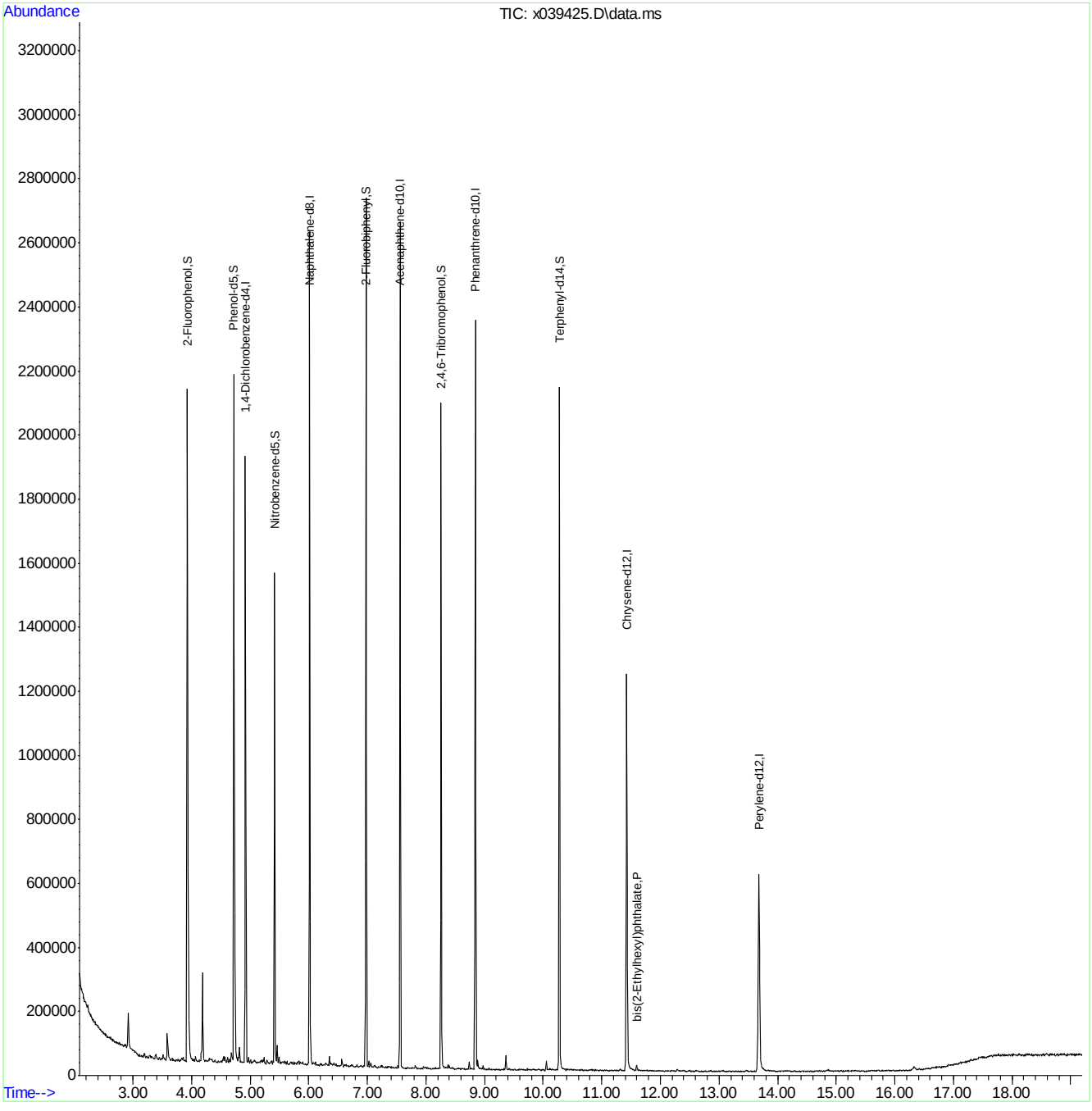
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.923	152	227305	40.00	ppm	0.00
22) Naphthalene-d8	6.017	136	842465	40.00	ppm	0.00
41) Acenaphthene-d10	7.559	164	455989	40.00	ppm	0.00
67) Phenanthrene-d10	8.841	188	695289	40.00	ppm	-0.01
83) Chrysene-d12	11.427	240	500230	40.00	ppm	-0.02
92) Perylene-d12	13.683	264	329749	40.00	ppm	-0.02
System Monitoring Compounds						
5) 2-Fluorophenol	3.928	112	614792	75.55	ppm	0.00
Spiked Amount 100.000	Range 40 - 102		Recovery = 75.55%			
9) Phenol-d5	4.718	99	782265	94.51	ppm	0.00
Spiked Amount 100.000	Range 41 - 100		Recovery = 94.51%			
23) Nitrobenzene-d5	5.417	82	344112	38.56	ppm	-0.02
Spiked Amount 50.000	Range 40 - 105		Recovery = 77.12%			
45) 2-Fluorobiphenyl	6.977	172	601627	38.93	ppm	0.00
Spiked Amount 50.000	Range 43 - 107		Recovery = 77.86%			
72) 2,4,6-Tribromophenol	8.261	330	130481	83.54	ppm	0.00
Spiked Amount 100.000	Range 42 - 108		Recovery = 83.54%			
86) Terphenyl-d14	10.276	244	614532	53.77	ppm	0.01
Spiked Amount 50.000	Range 45 - 119		Recovery = 107.54%			
Target Compounds						Qvalue
91) bis(2-Ethylhexyl)phtha...	11.594	149	5390	0.46	ppm	93

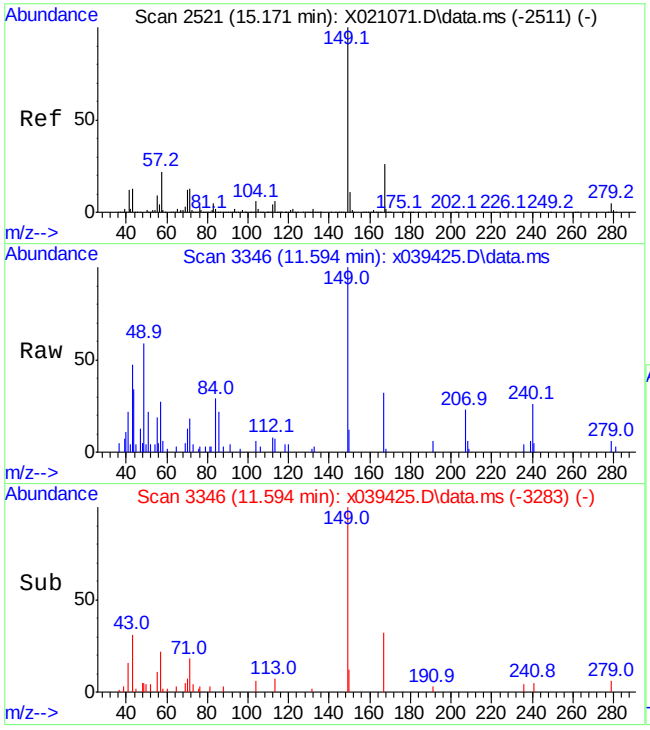
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\sx1832\
Data File : x039425.D
Acq On : 7 Apr 2015 4:19 pm
Operator : marthav
Sample : fa23258-41
Misc : op55584,sx1832,29.9,,,1,1,soil
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Apr 08 14:29:02 2015
Quant Method : C:\msdchem\1\METHODS\8270d_03302.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Tue Mar 31 09:29:41 2015
Response via : Initial Calibration

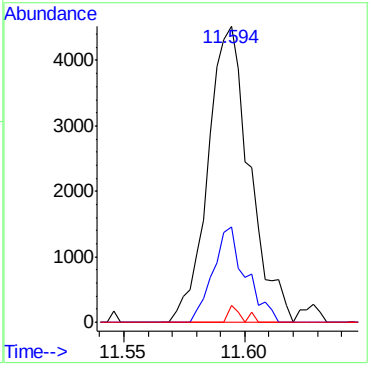




#91
bis(2-Ethylhexyl)phthalate
Concen: 0.46 ppm
RT: 11.594 min Scan# 3346
Delta R.T. -0.020 min
Lab File: x039425.D
Acq: 7 Apr 2015 4:19 pm

Tgt Ion:149 Resp: 5390

Ion	Ratio	Lower	Upper
149	100		
167	32.1	0.0	57.8
279	5.9	0.0	34.9



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\st811\
Data File : T017742.D
Acq On : 7 Apr 2015 7:46 pm
Operator : mayrag
Sample : fa23258-14
Misc : op55593,st811,230,,,1,1,water
ALS Vial : 30 Sample Multiplier: 1

Quant Time: Apr 08 10:21:22 2015
Quant Method : C:\msdchem\1\METHODS\SIM_LV.M
Quant Title : PAH's by 8270 SIM
QLast Update : Wed Apr 08 09:06:52 2015
Response via : Initial Calibration

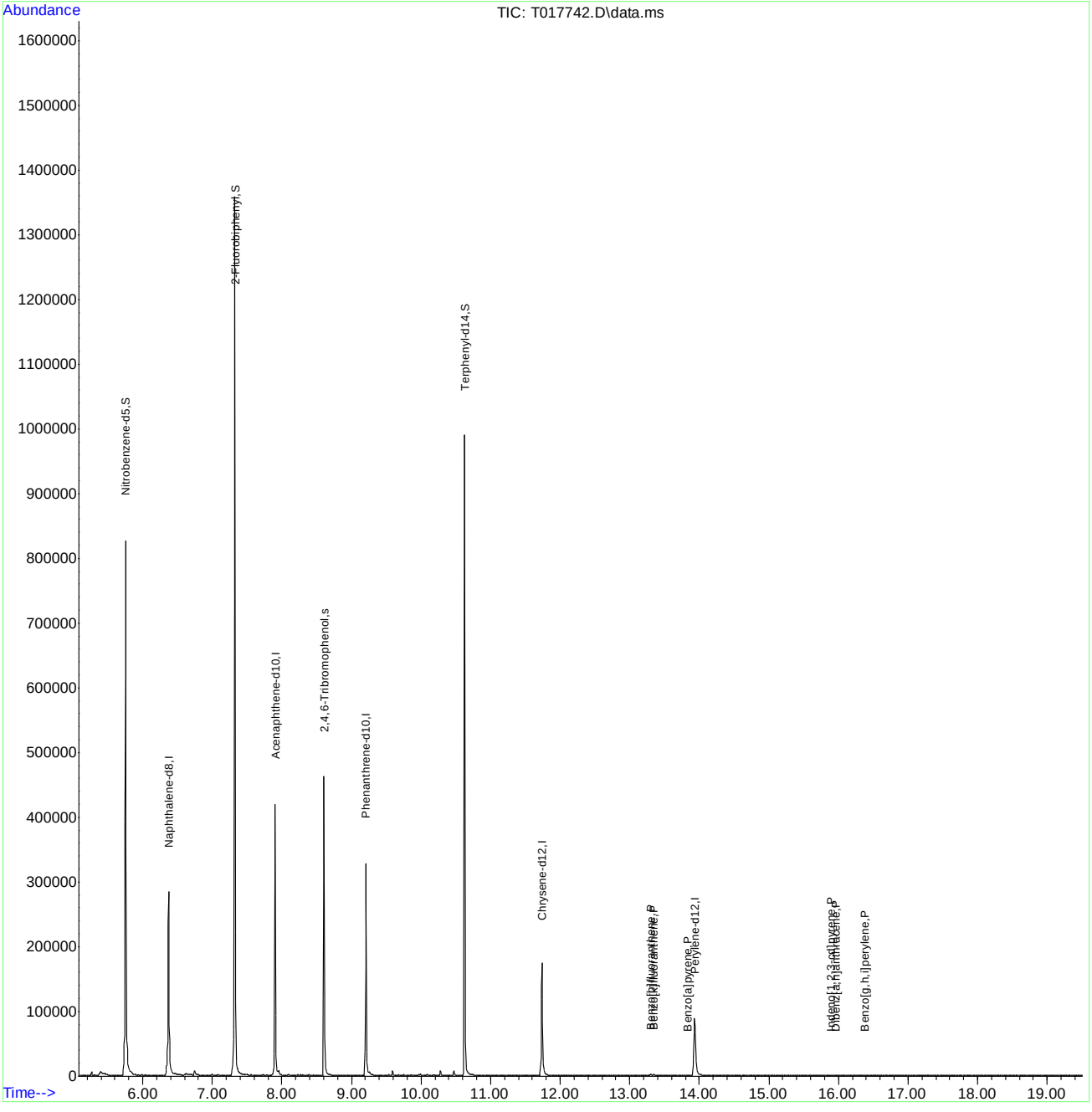
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) Naphthalene-d8	6.370	136	274061	500.00 ppb	0.00
6) Acenaphthene-d10	7.904	164	137952	500.00 ppb	0.00
11) Phenanthrene-d10	9.206	188	223892	500.00 ppb	0.00
17) Chrysene-d12	11.740	240	154839	500.00 ppb	0.00
22) Perylene-d12	13.932	264	120868	500.00 ppb	0.00
System Monitoring Compounds					
2) Nitrobenzene-d5	5.756	82	452474	1787.41 ppb	0.00
Spiked Amount 2000.000	Range 38 - 126		Recovery = 89.37%		
7) 2-Fluorobiphenyl	7.325	172	838692	1865.43 ppb	0.00
Spiked Amount 2000.000	Range 41 - 109		Recovery = 93.27%		
12) 2,4,6-Tribromophenol	8.606	330	154067	2852.21 ppb	0.00
Spiked Amount 4000.000	Range 33 - 118		Recovery = 71.31%		
19) Terphenyl-d14	10.627	244	668296	2242.13 ppb	0.00
Spiked Amount 2000.000	Range 46 - 135		Recovery = 112.11%		
Target Compounds					Qvalue
23) Benzo[b]fluoranthene	13.302	252	3407	9.86 ppb	97
24) Benzo[k]fluoranthene	13.342	252	3065	8.27 ppb	97
25) Benzo[a]pyrene	13.829	252	1320	4.12 ppb	91
26) Indeno[1,2,3-cd]pyrene	15.883	276	2109	8.77 ppb	95
27) Dibenz[a,h]anthracene	15.951	278	1338	5.35 ppb	85
28) Benzo[g,h,i]perylene	16.382	276	2527	9.34 ppb	97

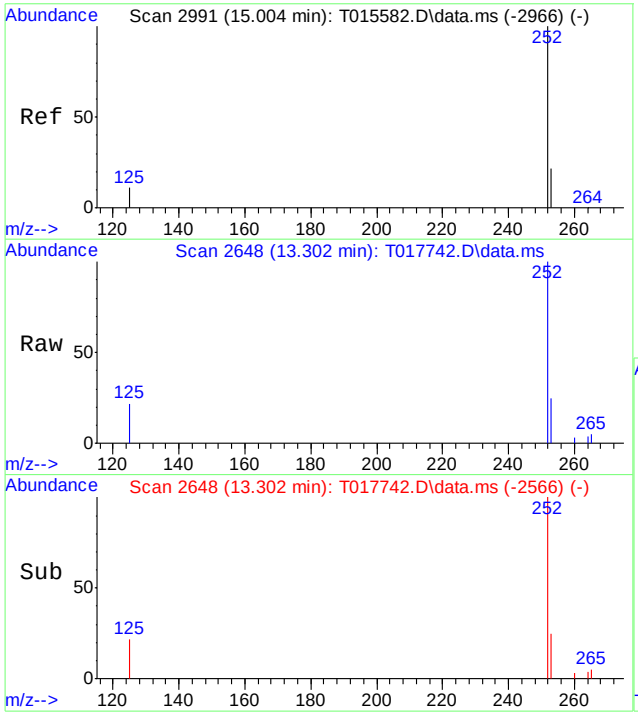
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\st811\
Data File : T017742.D
Acq On : 7 Apr 2015 7:46 pm
Operator : mayrag
Sample : fa23258-14
Misc : op55593,st811,230,,,1,1,water
ALS Vial : 30 Sample Multiplier: 1

Quant Time: Apr 08 10:21:22 2015
Quant Method : C:\msdchem\1\METHODS\SIM_LV.M
Quant Title : PAH's by 8270 SIM
QLast Update : Wed Apr 08 09:06:52 2015
Response via : Initial Calibration

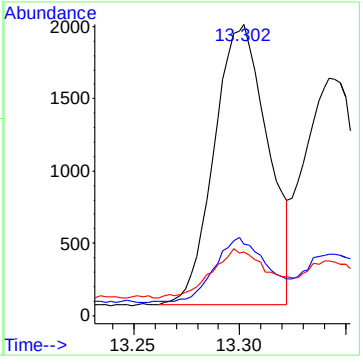


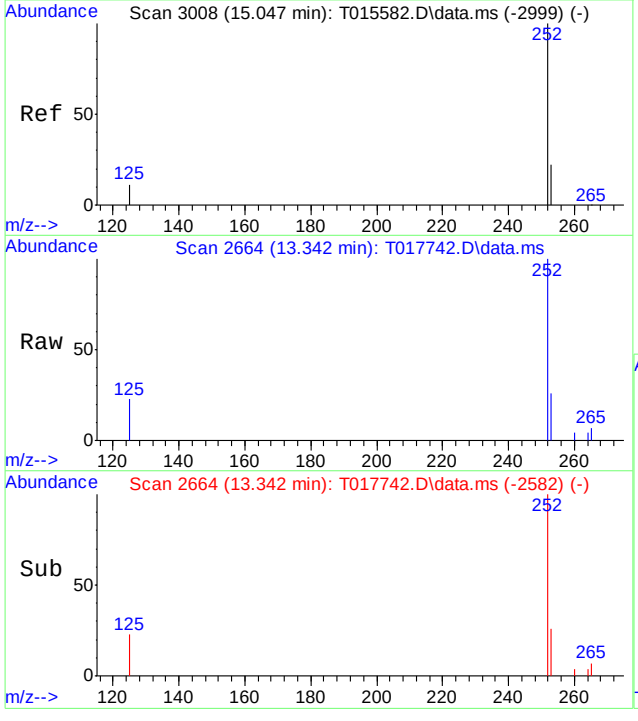


#23
Benzo[b]fluoranthene
Concen: 9.86 ppb
RT: 13.302 min Scan# 2648
Delta R.T. 0.005 min
Lab File: T017742.D
Acq: 7 Apr 15 7:46 pm

Tgt Ion:252 Resp: 3407

Ion	Ratio	Lower	Upper
252	100		
253	20.3	0.0	51.9
125	15.4	0.0	46.6

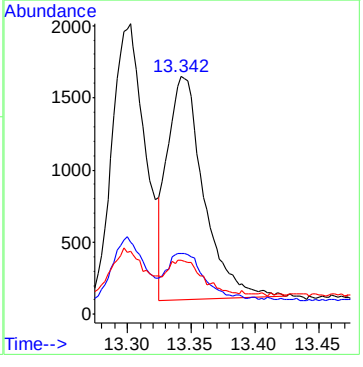


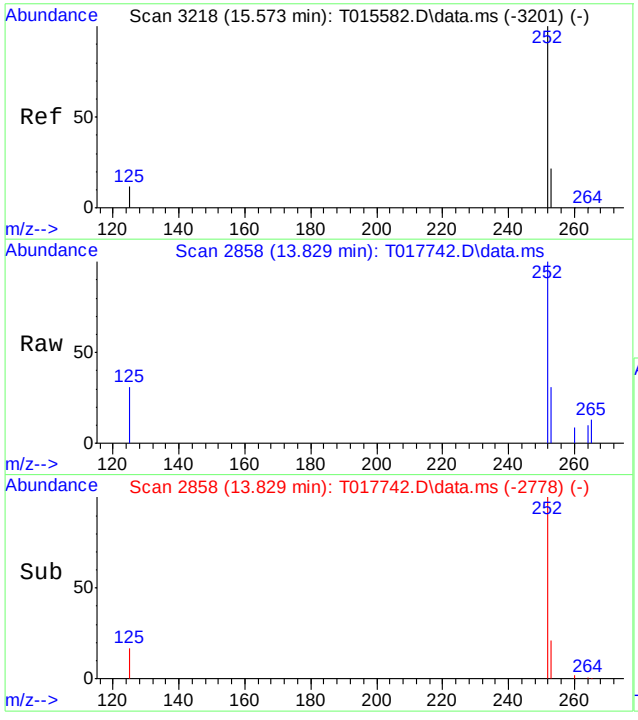


#24
Benzo[k]fluoranthene
Concen: 8.27 ppb
RT: 13.342 min Scan# 2664
Delta R.T. 0.005 min
Lab File: T017742.D
Acq: 7 Apr 15 7:46 pm

Tgt Ion:252 Resp: 3065

Ion	Ratio	Lower	Upper
252	100		
253	20.7	0.0	52.0
125	15.0	0.0	46.9

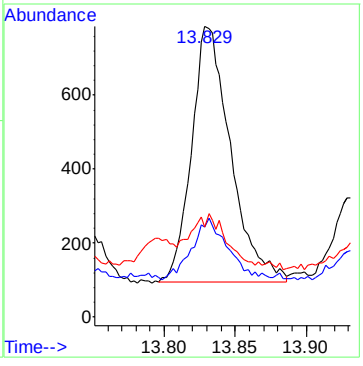


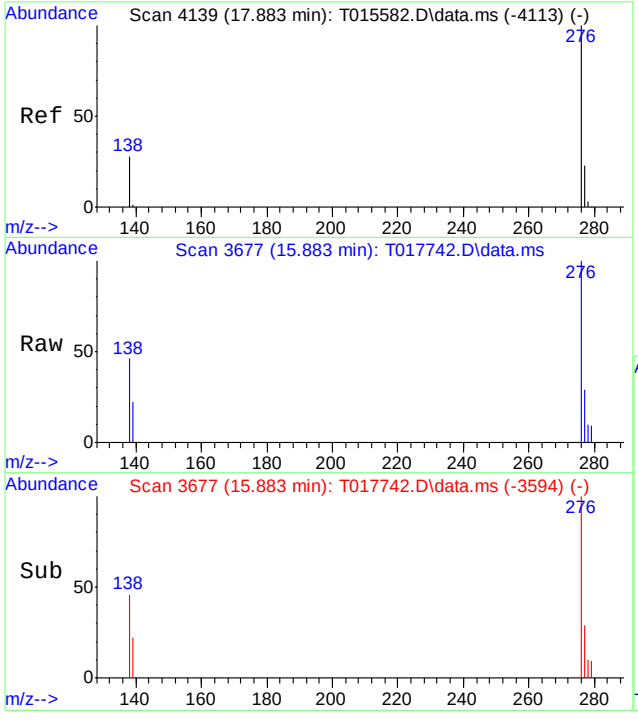


#25
Benzo[a]pyrene
Concen: 4.12 ppb
RT: 13.829 min Scan# 2858
Delta R.T. 0.000 min
Lab File: T017742.D
Acq: 7 Apr 15 7:46 pm

Tgt Ion:252 Resp: 1320

Ion	Ratio	Lower	Upper
252	100		
253	20.5	0.0	51.6
125	10.6	0.0	48.4

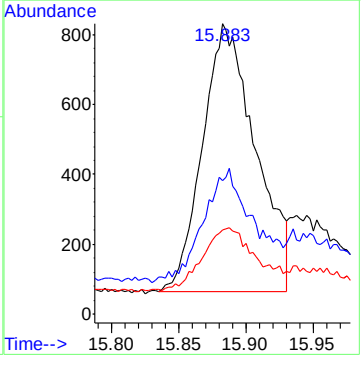


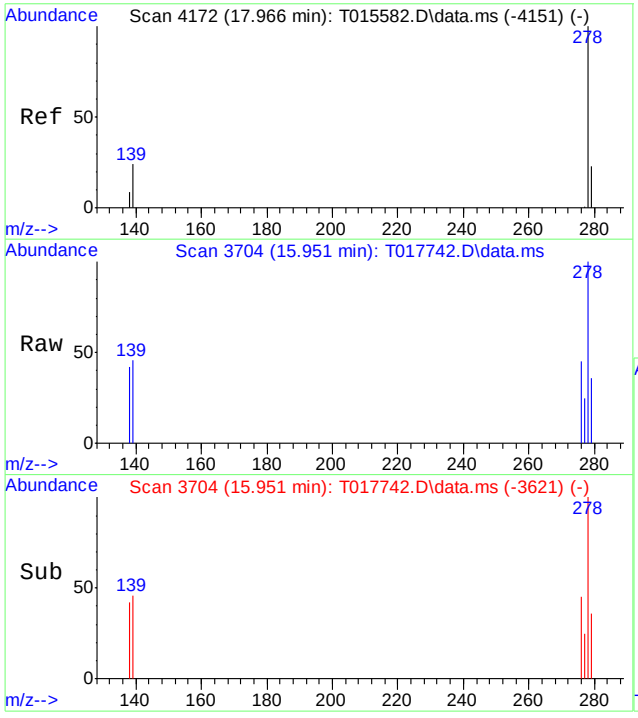


#26
Indeno[1,2,3-cd]pyrene
Concen: 8.77 ppb
RT: 15.883 min Scan# 3677
Delta R.T. 0.008 min
Lab File: T017742.D
Acq: 7 Apr 15 7:46 pm

Tgt Ion:276 Resp: 2109

Ion	Ratio	Lower	Upper
276	100		
138	34.0	7.5	67.5
277	21.8	0.0	54.1

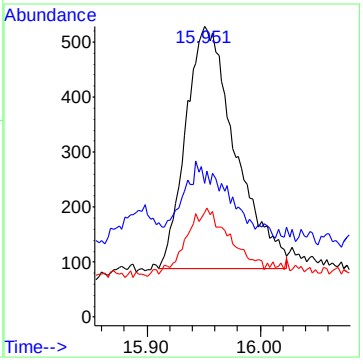


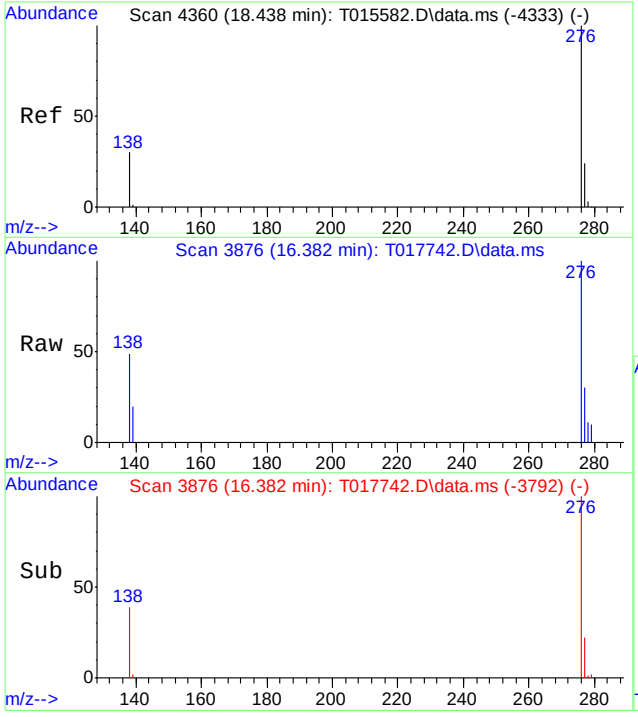


#27
Dibenz[a,h]anthracene
Concen: 5.35 ppb
RT: 15.951 min Scan# 3704
Delta R.T. 0.008 min
Lab File: T017742.D
Acq: 7 Apr 15 7:46 pm

Tgt Ion:278 Resp: 1338

Ion	Ratio	Lower	Upper
278	100		
139	17.9	2.4	62.4
279	23.1	0.0	53.5

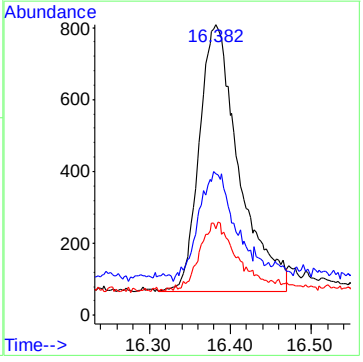




#28
Benzo[g,h,i]perylene
Concen: 9.34 ppb
RT: 16.382 min Scan# 3876
Delta R.T. 0.011 min
Lab File: T017742.D
Acq: 7 Apr 15 7:46 pm

Tgt Ion:276 Resp: 2527

Ion	Ratio	Lower	Upper
276	100		
138	39.1	11.8	71.8
277	22.7	0.0	53.4



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\st813\
Data File : T017852.D
Acq On : 10 Apr 2015 7:05 pm
Operator : mayrag
Sample : fa23258-14
Misc : op55693,st813,240,,,1,1,water
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Apr 13 10:00:00 2015
Quant Method : C:\msdchem\1\METHODS\SIM_LV.M
Quant Title : PAH's by 8270 SIM
QLast Update : Mon Apr 13 09:48:51 2015
Response via : Initial Calibration

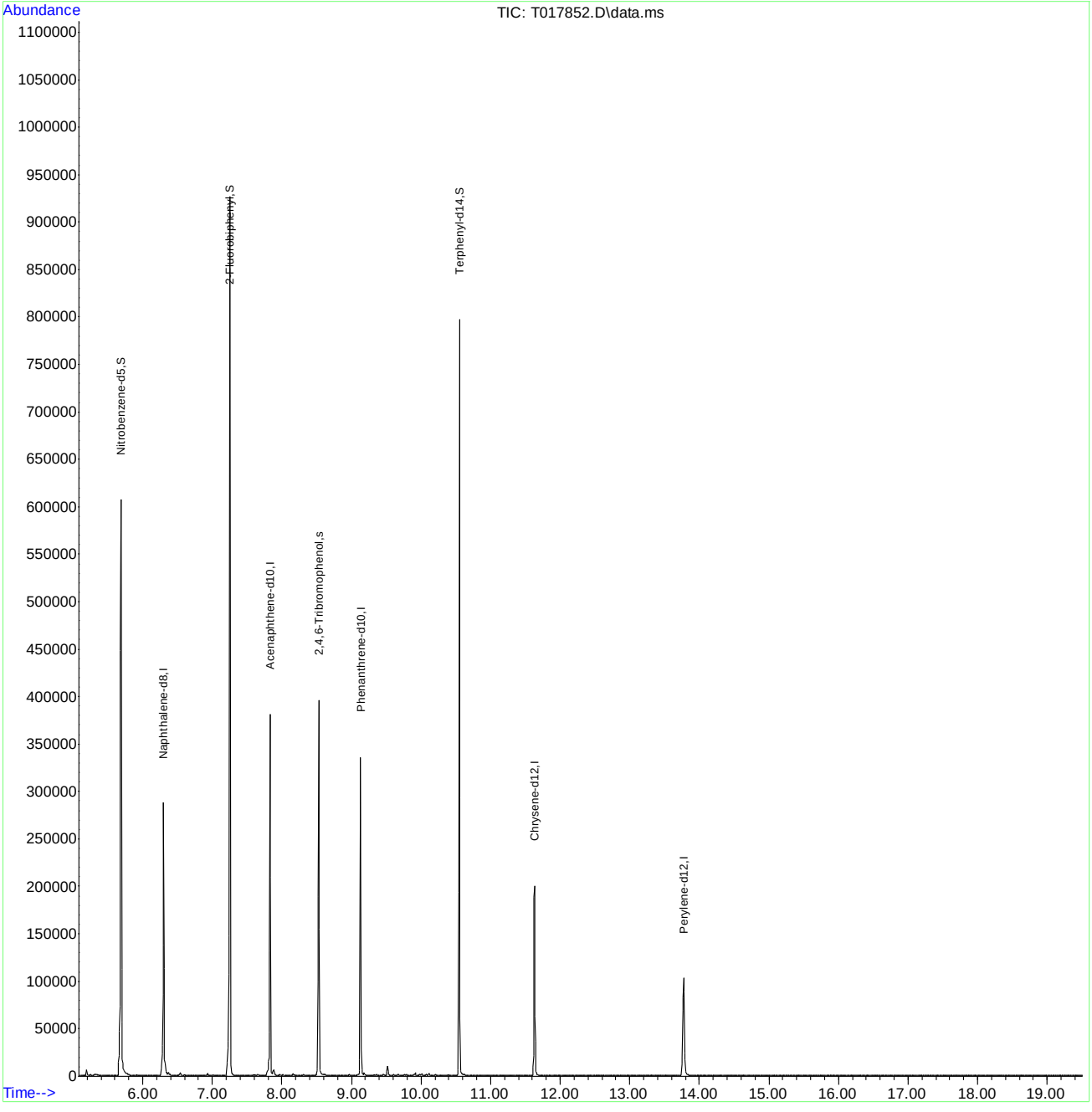
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) Naphthalene-d8	6.300	136	245555	500.00 ppb	0.00
6) Acenaphthene-d10	7.832	164	126742	500.00 ppb	0.00
11) Phenanthrene-d10	9.132	188	206940	500.00 ppb	0.00
17) Chrysene-d12	11.630	240	143495	500.00 ppb	0.00
22) Perylene-d12	13.776	264	117549	500.00 ppb	0.00
System Monitoring Compounds					
2) Nitrobenzene-d5	5.683	82	307243	1287.17 ppb	0.00
Spiked Amount 2000.000	Range 38 - 126		Recovery =	64.36%	
7) 2-Fluorobiphenyl	7.253	172	560703	1275.06 ppb	0.00
Spiked Amount 2000.000	Range 41 - 109		Recovery =	63.75%	
12) 2,4,6-Tribromophenol	8.529	330	129527	2391.75 ppb	0.00
Spiked Amount 4000.000	Range 33 - 118		Recovery =	59.79%	
19) Terphenyl-d14	10.549	244	508344	1686.36 ppb	0.00
Spiked Amount 2000.000	Range 46 - 135		Recovery =	84.32%	
Target Compounds					Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\st813\
Data File : T017852.D
Acq On : 10 Apr 2015 7:05 pm
Operator : mayrag
Sample : fa23258-14
Misc : op55693,st813,240,,,1,1,water
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Apr 13 10:00:00 2015
Quant Method : C:\msdchem\1\METHODS\SIM_LV.M
Quant Title : PAH's by 8270 SIM
QLast Update : Mon Apr 13 09:48:51 2015
Response via : Initial Calibration



SIM_LV.M Mon Apr 13 10:00:05 2015 Page: 2

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\sl3631\
Data File : L0681732.D
Acq On : 6 Apr 2015 10:53 am
Operator : marthav
Sample : op55582-mb
Misc : op55582,sl3631,30.0,,,1,1,soil
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Apr 07 07:54:07 2015
Quant Method : C:\msdchem\1\METHODS\8270da0402.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Thu Apr 02 15:27:09 2015
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	5.140	152	230562	40.00	ppm	0.00
22) Naphthalene-d8	6.321	136	830224	40.00	ppm	0.00
42) Acenaphthene-d10	8.655	164	468767	40.00	ppm	-0.01
68) Phenanthrene-d10	11.134	188	741137	40.00	ppm	-0.01
84) Chrysene-d12	16.070	240	612417	40.00	ppm	-0.01
93) Perylene-d12	18.586	264	491764	40.00	ppm	-0.01

System Monitoring Compounds

7) 2-Fluorophenol	4.189	112	643315	70.96	ppm	0.00
Spiked Amount 100.000	Range 40 - 102		Recovery = 70.96%			
9) Phenol-d5	4.884	99	817814	84.19	ppm	0.00
Spiked Amount 100.000	Range 41 - 100		Recovery = 84.19%			
23) Nitrobenzene-d5	5.632	82	352128	38.41	ppm	0.00
Spiked Amount 50.000	Range 40 - 105		Recovery = 76.82%			
46) 2-Fluorobiphenyl	7.662	172	599130	39.07	ppm	-0.01
Spiked Amount 50.000	Range 43 - 107		Recovery = 78.14%			
73) 2,4,6-Tribromophenol	9.964	330	225765	82.78	ppm	-0.02
Spiked Amount 100.000	Range 42 - 108		Recovery = 82.78%			
87) Terphenyl-d14	14.168	244	646047	45.51	ppm	-0.01
Spiked Amount 50.000	Range 45 - 119		Recovery = 91.02%			

Target Compounds						Qvalue
92) bis(2-Ethylhexyl)phtha...	16.434	149	5999	0.50	ppm	87

(#) = qualifier out of range (m) = manual integration (+) = signals summed

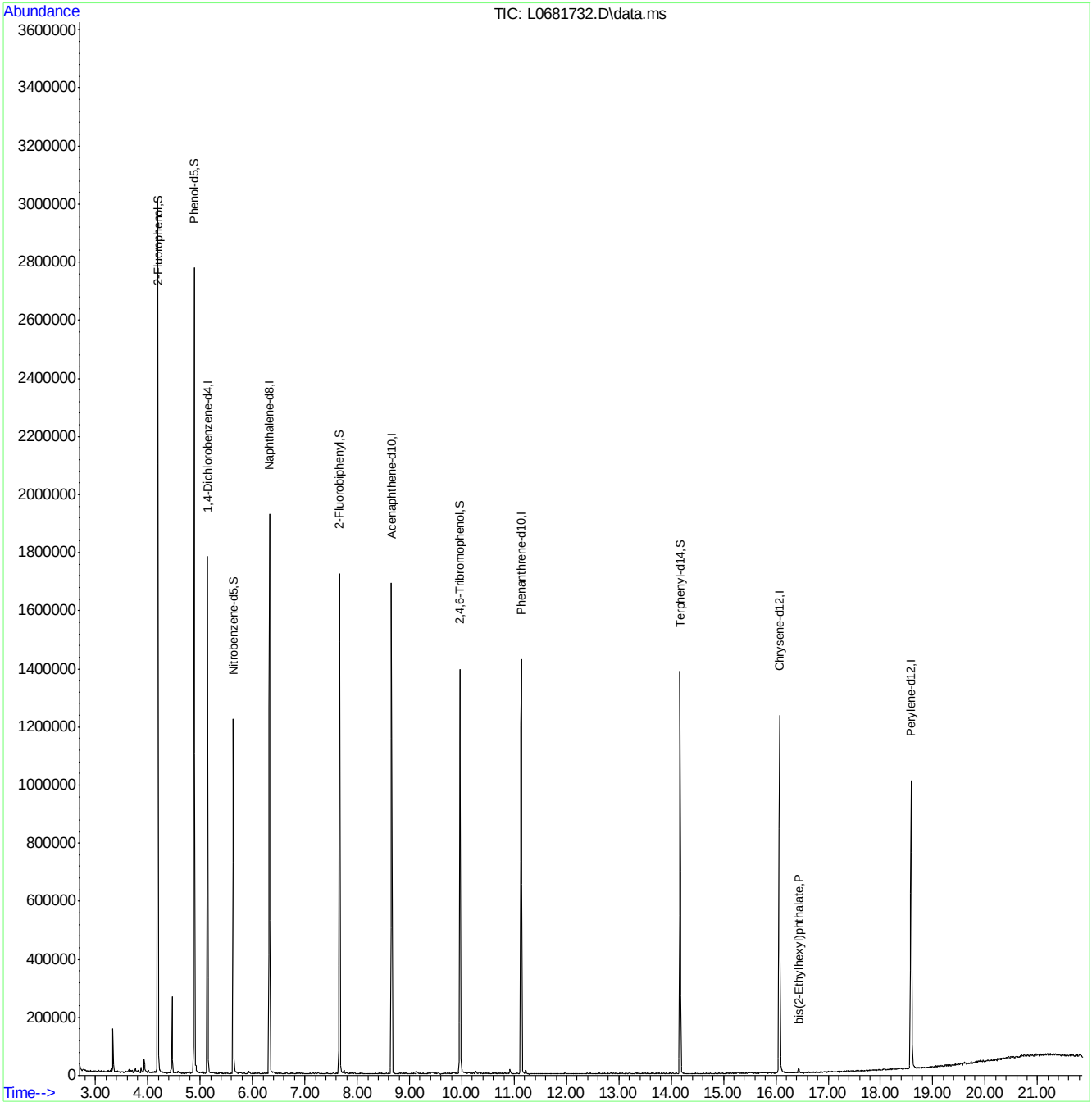
7.2.1

7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\sl3631\
Data File : L0681732.D
Acq On : 6 Apr 2015 10:53 am
Operator : marthav
Sample : op55582-mb
Misc : op55582,sl3631,30.0,,,1,1,soil
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Apr 07 07:54:07 2015
Quant Method : C:\msdchem\1\METHODS\8270da0402.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Thu Apr 02 15:27:09 2015
Response via : Initial Calibration



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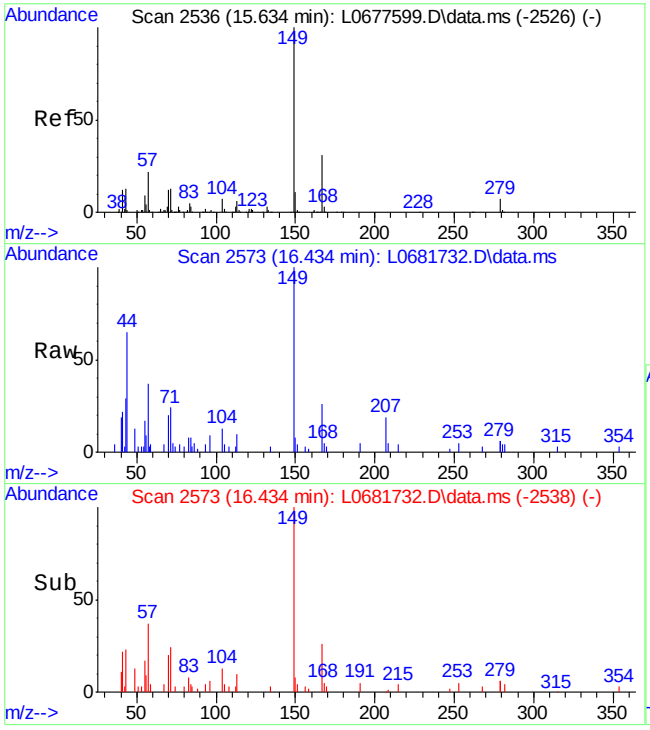
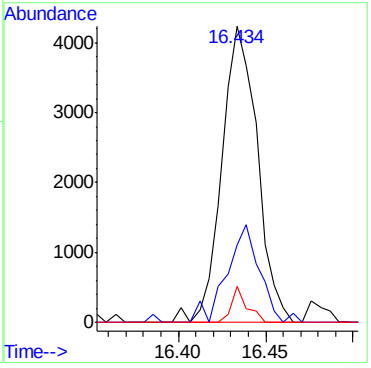


#92
bis(2-Ethylhexyl)phthalate
Concen: 0.50 ppm
RT: 16.434 min Scan# 2573
Delta R.T. -0.011 min
Lab File: L0681732.D
Acq: 6 Apr 2015 10:53 am

Tgt Ion:149 Resp: 5999

Ion	Ratio	Lower	Upper
149	100		
167	24.6	1.1	61.1
279	12.2	0.0	34.6



7.2.1

7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\sl3632\
Data File : L0681760.D
Acq On : 7 Apr 2015 1:04 pm
Operator : marthav
Sample : op55582-mb
Misc : op55582,sl3632,30.0,,,1,1,soil
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Apr 08 09:38:22 2015
Quant Method : C:\msdchem\1\METHODS\8270da0402.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Thu Apr 02 15:27:09 2015
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	5.126	152	404154	40.00	ppm	-0.02
22) Naphthalene-d8	6.302	136	1331219	40.00	ppm	-0.02
42) Acenaphthene-d10	8.636	164	827986	40.00	ppm	-0.03
68) Phenanthrene-d10	11.115	188	1277996	40.00	ppm	-0.03
84) Chrysene-d12	16.051	240	1074370	40.00	ppm	-0.03
93) Perylene-d12	18.573	264	895990	40.00	ppm	-0.02

System Monitoring Compounds						
7) 2-Fluorophenol	4.181	112	990882	62.36	ppm	0.00
Spiked Amount 100.000	Range 40 - 102		Recovery = 62.36%			
9) Phenol-d5	4.870	99	1278168	75.06	ppm	-0.02
Spiked Amount 100.000	Range 41 - 100		Recovery = 75.06%			
23) Nitrobenzene-d5	5.612	82	591423	40.24	ppm	-0.02
Spiked Amount 50.000	Range 40 - 105		Recovery = 80.48%			
46) 2-Fluorobiphenyl	7.643	172	1012386	37.37	ppm	-0.03
Spiked Amount 50.000	Range 43 - 107		Recovery = 74.74%			
73) 2,4,6-Tribromophenol	9.945	330	431234	91.70	ppm	-0.04
Spiked Amount 100.000	Range 42 - 108		Recovery = 91.70%			
87) Terphenyl-d14	14.149	244	1150610	46.21	ppm	-0.03
Spiked Amount 50.000	Range 45 - 119		Recovery = 92.42%			

Target Compounds						Qvalue
66) Diethylphthalate	9.448	149	14724	0.54	ppm	90
92) bis(2-Ethylhexyl)phtha...	16.414	149	19109	0.91	ppm	96

(#) = qualifier out of range (m) = manual integration (+) = signals summed

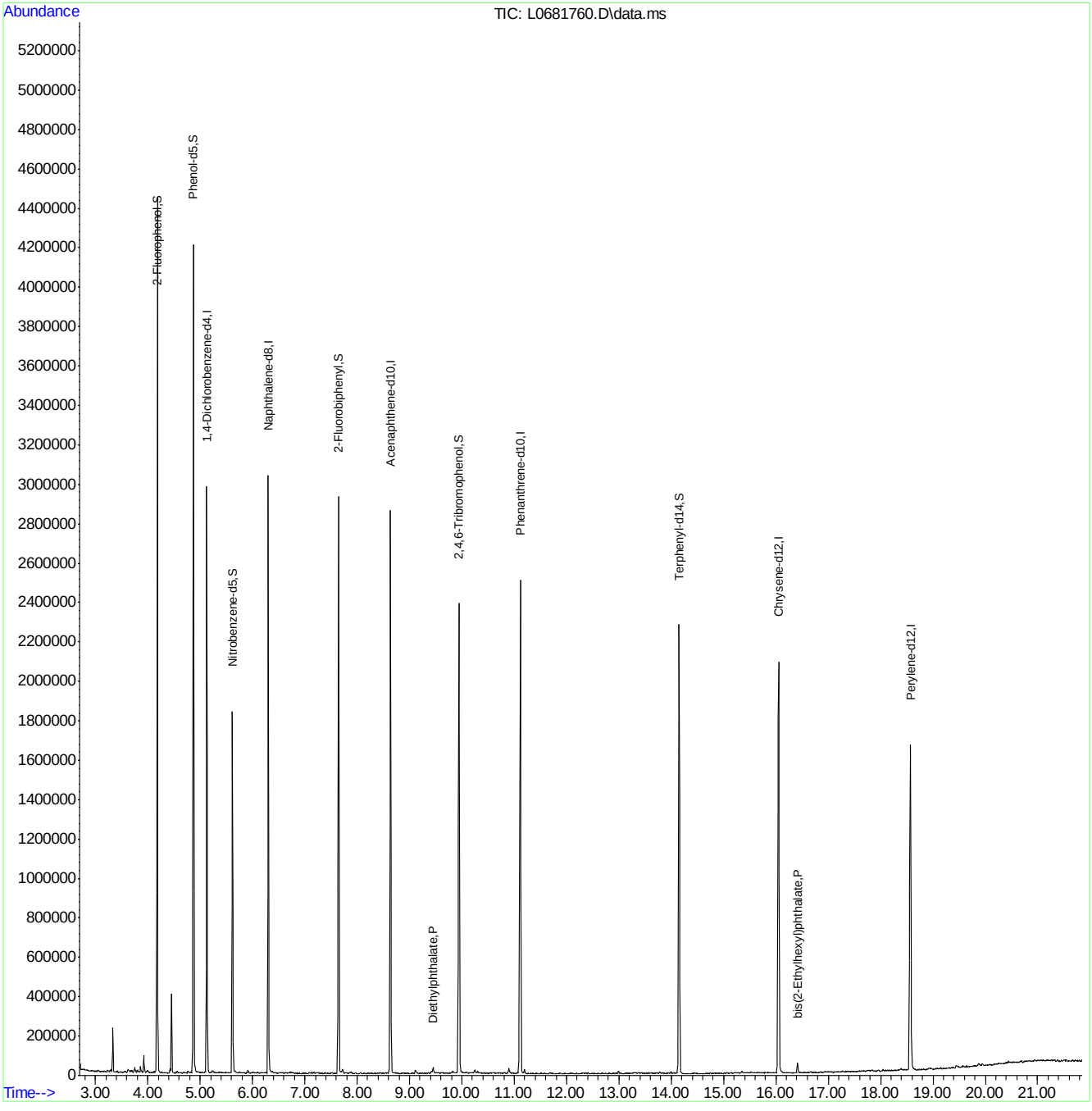
7.2.2

7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\sl3632\
Data File : L0681760.D
Acq On : 7 Apr 2015 1:04 pm
Operator : marthav
Sample : op55582-mb
Misc : op55582,sl3632,30.0,,,1,1,soil
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Apr 08 09:38:22 2015
Quant Method : C:\msdchem\1\METHODS\8270da0402.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Thu Apr 02 15:27:09 2015
Response via : Initial Calibration



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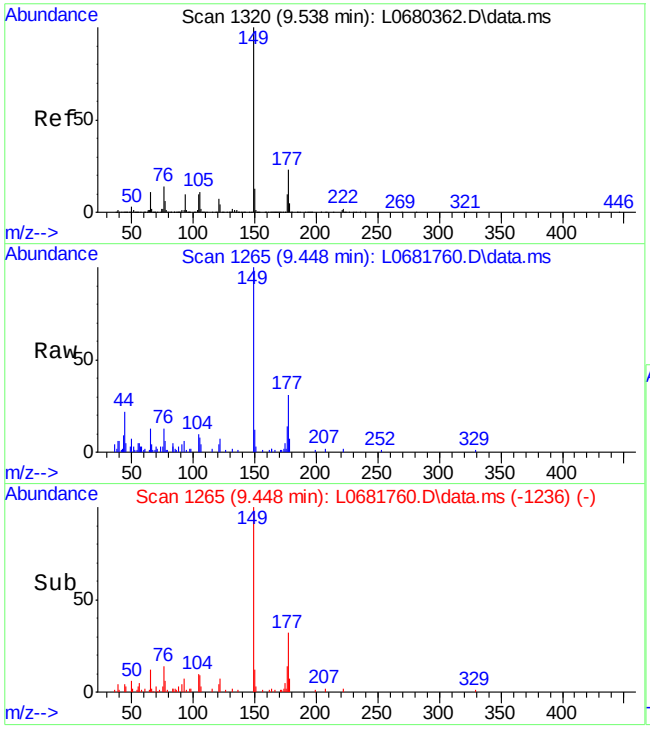
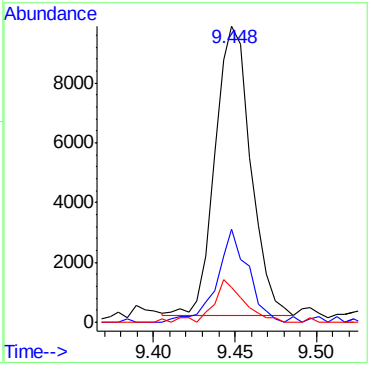
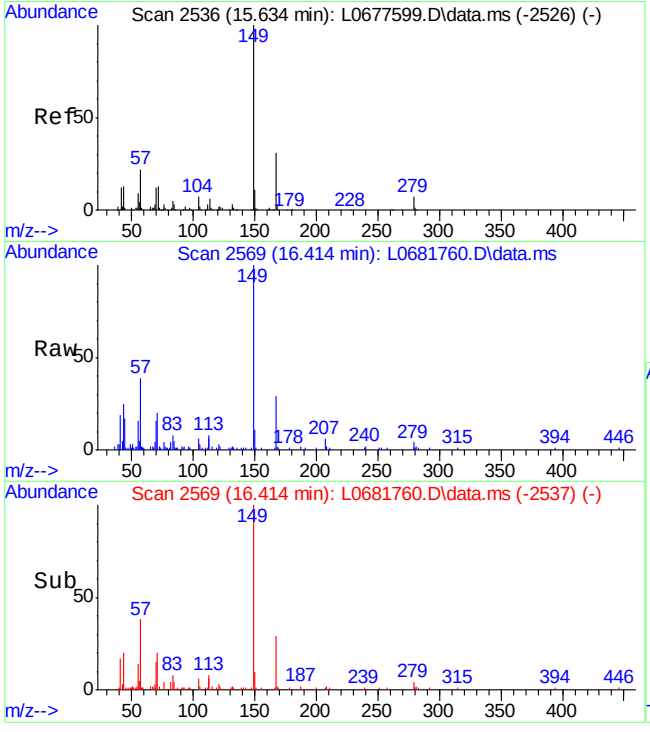


#66
Diethylphthalate
Concen: 0.54 ppm
RT: 9.448 min Scan# 1265
Delta R.T. -0.046 min
Lab File: L0681760.D
Acq: 7 Apr 2015 1:04 pm

Tgt Ion:149 Resp: 14724

Ion	Ratio	Lower	Upper
149	100		
177	31.5	0.0	55.1
150	11.7	0.0	43.3

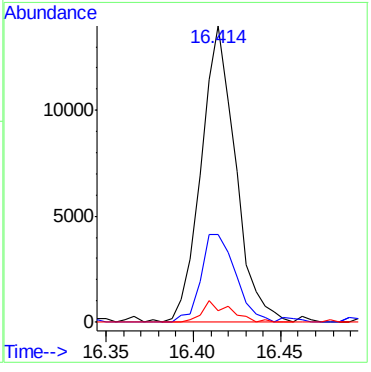




#92
bis(2-Ethylhexyl)phthalate
Concen: 0.91 ppm
RT: 16.414 min Scan# 2569
Delta R.T. -0.030 min
Lab File: L0681760.D
Acq: 7 Apr 2015 1:04 pm

Tgt Ion:149 Resp: 19109

Ion	Ratio	Lower	Upper
149	100		
167	28.9	1.1	61.1
279	4.9	0.0	34.6



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\sx1832\
Data File : x039419.D
Acq On : 7 Apr 2015 1:49 pm
Operator : marthav
Sample : op55584-mb
Misc : op55584,sx1832,30.0,,,1,1,soil
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Apr 08 14:23:05 2015
Quant Method : C:\msdchem\1\METHODS\8270d_03302.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Tue Mar 31 09:29:41 2015
Response via : Initial Calibration

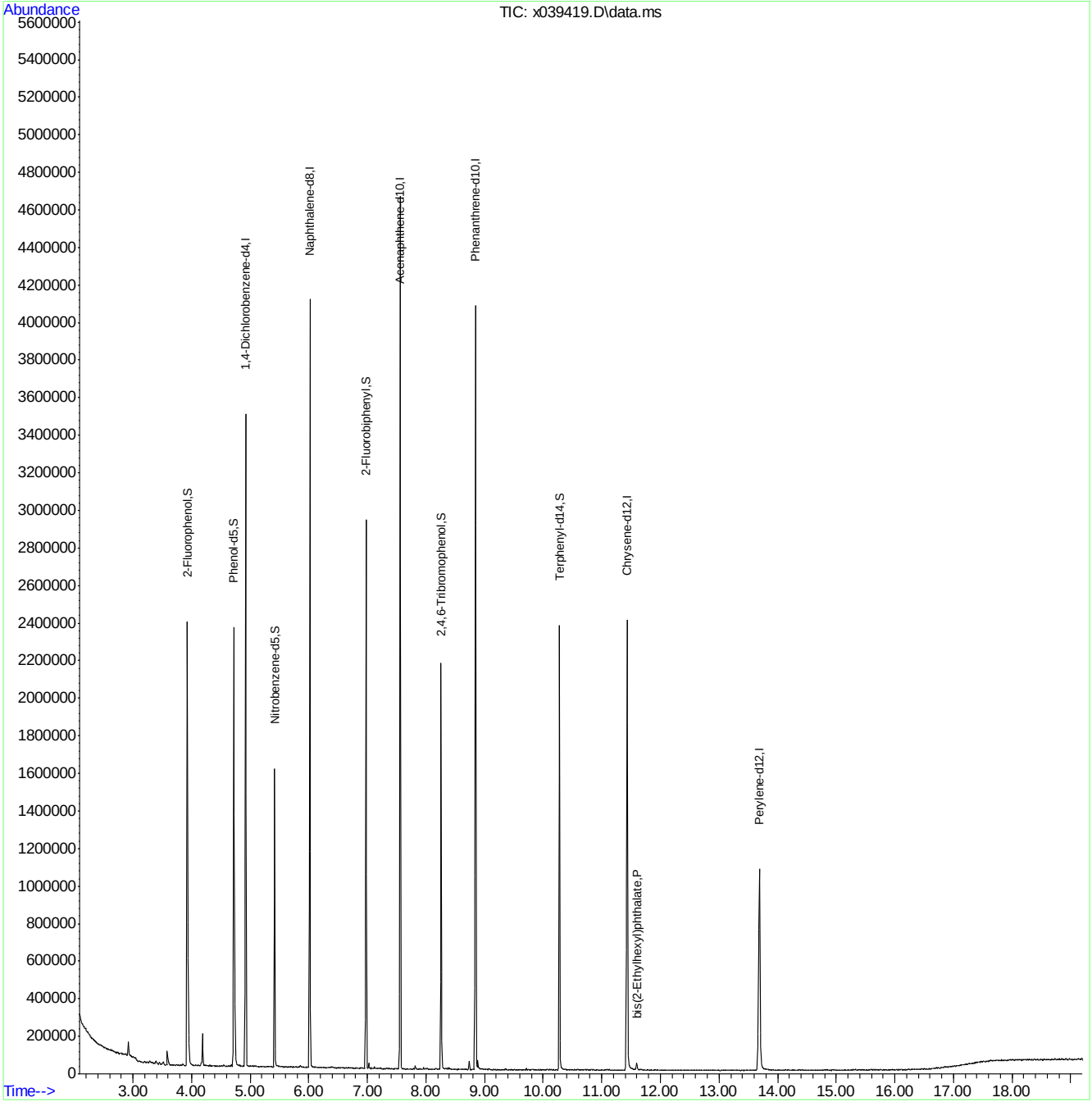
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.923	152	409602	40.00	ppm	0.00
22) Naphthalene-d8	6.016	136	1478665	40.00	ppm	0.00
41) Acenaphthene-d10	7.559	164	832349	40.00	ppm	0.00
67) Phenanthrene-d10	8.847	188	1261245	40.00	ppm	0.00
83) Chrysene-d12	11.432	240	972026	40.00	ppm	-0.02
92) Perylene-d12	13.691	264	622681	40.00	ppm	-0.01
System Monitoring Compounds						
5) 2-Fluorophenol	3.925	112	659267	44.96	ppm	0.00
Spiked Amount 100.000	Range 40 - 102		Recovery = 44.96%			
9) Phenol-d5	4.718	99	839410	56.28	ppm	0.00
Spiked Amount 100.000	Range 41 - 100		Recovery = 56.28%			
23) Nitrobenzene-d5	5.417	82	371911	23.75	ppm	-0.02
Spiked Amount 50.000	Range 40 - 105		Recovery = 47.50%			
45) 2-Fluorobiphenyl	6.977	172	661037	23.43	ppm	0.00
Spiked Amount 50.000	Range 43 - 107		Recovery = 46.86%			
72) 2,4,6-Tribromophenol	8.261	330	137457	48.52	ppm	0.00
Spiked Amount 100.000	Range 42 - 108		Recovery = 48.52%			
86) Terphenyl-d14	10.279	244	644126	29.00	ppm	0.02
Spiked Amount 50.000	Range 45 - 119		Recovery = 58.00%			
Target Compounds						Qvalue
91) bis(2-Ethylhexyl)phtha...	11.597	149	11886	0.52	ppm	92

(#) = qualifier out of range (m) = manual integration (+) = signals summed

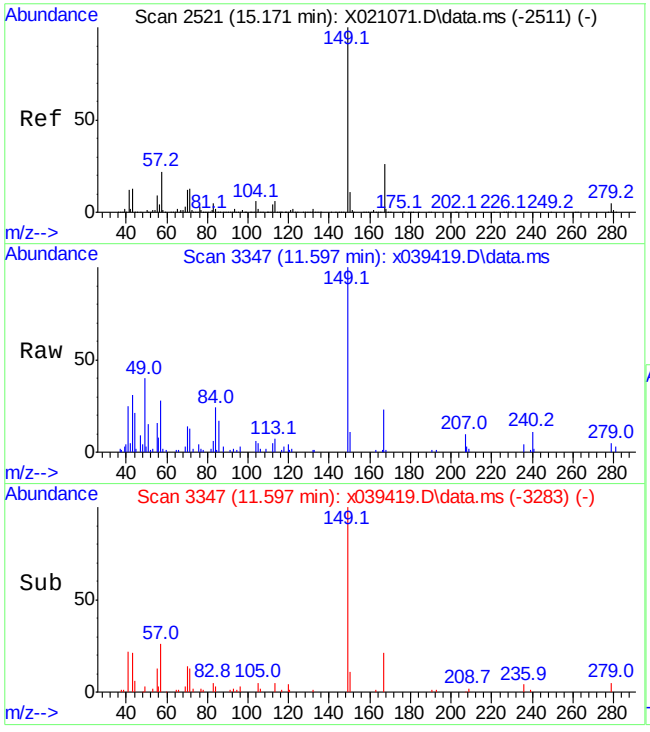
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\sx1832\
Data File : x039419.D
Acq On : 7 Apr 2015 1:49 pm
Operator : marthav
Sample : op55584-mb
Misc : op55584,sx1832,30.0,,,1,1,soil
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Apr 08 14:23:05 2015
Quant Method : C:\msdchem\1\METHODS\8270d_03302.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Tue Mar 31 09:29:41 2015
Response via : Initial Calibration



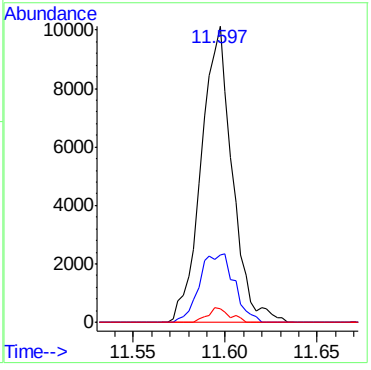
8270d_03302.m Wed Apr 08 15:45:42 2015 Page: 2



#91
bis(2-Ethylhexyl)phthalate
Concen: 0.52 ppm
RT: 11.597 min Scan# 3347
Delta R.T. -0.017 min
Lab File: x039419.D
Acq: 7 Apr 2015 1:49 pm

Tgt Ion:149 Resp: 11886

Ion	Ratio	Lower	Upper
149	100		
167	22.8	0.0	57.8
279	4.6	0.0	34.9



7.2.3

7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\st811\
Data File : T017741.D
Acq On : 7 Apr 2015 7:16 pm
Operator : mayrag
Sample : op55593-mb
Misc : op55593,st811,250,,,1,1,water
ALS Vial : 29 Sample Multiplier: 1

Quant Time: Apr 08 14:11:49 2015
Quant Method : C:\msdchem\1\METHODS\SIM_LV.M
Quant Title : PAH's by 8270 SIM
QLast Update : Wed Apr 08 09:06:52 2015
Response via : Initial Calibration

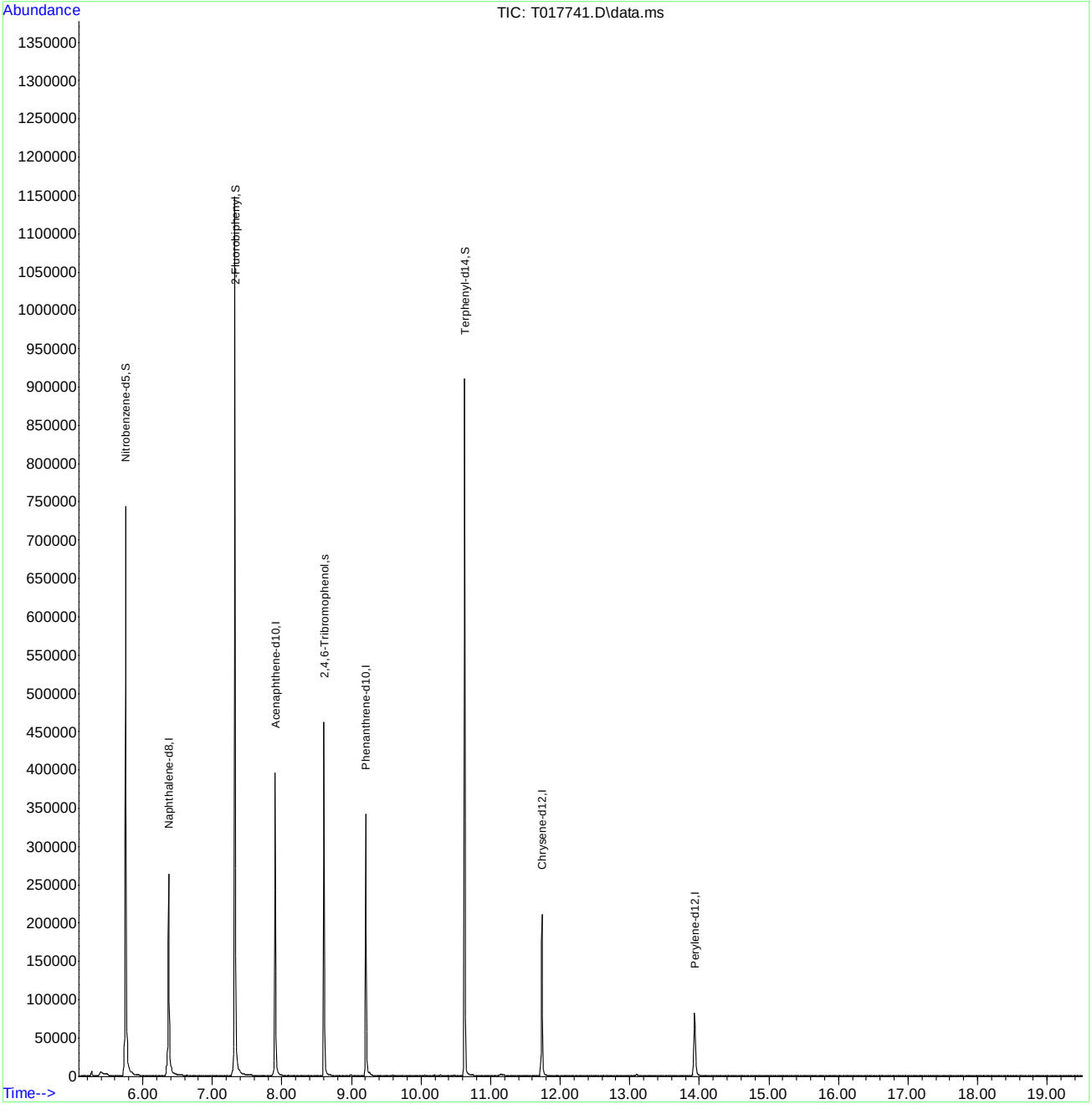
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) Naphthalene-d8	6.372	136	269790	500.00 ppb	0.00
6) Acenaphthene-d10	7.904	164	141986	500.00 ppb	0.00
11) Phenanthrene-d10	9.208	188	228273	500.00 ppb	0.00
17) Chrysene-d12	11.737	240	171239	500.00 ppb	0.00
22) Perylene-d12	13.931	264	100165	500.00 ppb	0.00
System Monitoring Compounds					
2) Nitrobenzene-d5	5.756	82	412223	1654.19 ppb	0.00
Spiked Amount 2000.000	Range 38 - 126		Recovery =	82.71%	
7) 2-Fluorobiphenyl	7.325	172	740335	1599.88 ppb	0.00
Spiked Amount 2000.000	Range 41 - 109		Recovery =	79.99%	
12) 2,4,6-Tribromophenol	8.606	330	149806	2719.37 ppb	0.00
Spiked Amount 4000.000	Range 33 - 118		Recovery =	67.98%	
19) Terphenyl-d14	10.625	244	587669	1782.80 ppb	0.00
Spiked Amount 2000.000	Range 46 - 135		Recovery =	89.14%	
Target Compounds					Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\st811\
Data File : T017741.D
Acq On : 7 Apr 2015 7:16 pm
Operator : mayrag
Sample : op55593-mb
Misc : op55593,st811,250,,,1,1,water
ALS Vial : 29 Sample Multiplier: 1

Quant Time: Apr 08 14:11:49 2015
Quant Method : C:\msdchem\1\METHODS\SIM_LV.M
Quant Title : PAH's by 8270 SIM
QLast Update : Wed Apr 08 09:06:52 2015
Response via : Initial Calibration



SIM_LV.M Wed Apr 08 14:11:53 2015 Page: 2

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\sl3631\
Data File : L0681731.D
Acq On : 6 Apr 2015 10:25 am
Operator : marthav
Sample : op55582-bs
Misc : op55582,sl3631,30.0,,,1,1,soil
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Apr 07 07:53:28 2015
Quant Method : C:\msdchem\1\METHODS\8270da0402.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Thu Apr 02 15:27:09 2015
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	5.142	152	230692	40.00	ppm	0.00
22) Naphthalene-d8	6.323	136	804398	40.00	ppm	0.00
42) Acenaphthene-d10	8.663	164	440686	40.00	ppm	0.00
68) Phenanthrene-d10	11.141	188	764009	40.00	ppm	0.00
84) Chrysene-d12	16.077	240	578218	40.00	ppm	0.00
93) Perylene-d12	18.588	264	492405	40.00	ppm	0.00

System Monitoring Compounds

7) 2-Fluorophenol	4.191	112	599912	66.14	ppm	0.00
Spiked Amount 100.000	Range 40 - 102		Recovery = 66.14%			
9) Phenol-d5	4.886	99	818183	84.18	ppm	0.00
Spiked Amount 100.000	Range 41 - 100		Recovery = 84.18%			
23) Nitrobenzene-d5	5.634	82	295498	33.27	ppm	0.00
Spiked Amount 50.000	Range 40 - 105		Recovery = 66.54%			
46) 2-Fluorobiphenyl	7.664	172	500780	34.73	ppm	0.00
Spiked Amount 50.000	Range 43 - 107		Recovery = 69.46%			
73) 2,4,6-Tribromophenol	9.971	330	206948	73.61	ppm	0.00
Spiked Amount 100.000	Range 42 - 108		Recovery = 73.61%			
87) Terphenyl-d14	14.170	244	614481	45.85	ppm	0.00
Spiked Amount 50.000	Range 45 - 119		Recovery = 91.70%			

Target Compounds

							Qvalue
2) 1,4-Dioxane	2.770	88	169208	30.70	ppm		94
3) N-nitrosodimethylamine	3.080	42	214470	34.30	ppm		89
4) Pyridine	3.085	79	362089	27.60	ppm		95
5) Benzaldehyde	4.806	106	2585	0.25	ppm	#	80
6) Aniline	4.907	93	429754	32.88	ppm		96
8) bis(2-Chloroethyl)ether	4.950	93	301868	33.96	ppm		96
10) Phenol	4.896	94	448811	36.80	ppm		98
11) 2-Chlorophenol	5.003	128	282592	34.15	ppm		95
12) 1,3-Dichlorobenzene	5.115	146	286871	31.04	ppm		99
13) 1,4-Dichlorobenzene	5.158	146	286656	33.13	ppm		98
14) 1,2-Dichlorobenzene	5.313	146	266407	31.56	ppm		98
15) Benzyl alcohol	5.265	108	215714	35.14	ppm		96
16) bis(2-chloroisopropyl)...	5.393	45	562225	35.31	ppm		98
17) 2-Methylphenol	5.372	108	271436	33.96	ppm		98
18) Acetophenone	5.495	105	411890	36.58	ppm		98
19) Hexachloroethane	5.580	117	113840	32.61	ppm		98
20) N-Nitroso-di-n-propyla...	5.511	70	199917	35.25	ppm		93
21) 3&4-Methylphenol	5.495	108	611037	71.17	ppm		98
24) Nitrobenzene	5.650	77	305100	34.45	ppm		96
25) Isophorone	5.863	82	546025	33.04	ppm		96
26) 2-Nitrophenol	5.949	139	148275	33.31	ppm		90
27) 2,4-Dimethylphenol	5.975	107	288400	37.29	ppm		97
28) bis(2-Chloroethoxy)met...	6.072	93	340286	33.37	ppm		97
29) Benzoic Acid	6.109	105	407736	62.34	ppm		96
30) 2,4-Dichlorophenol	6.184	162	211634	32.44	ppm		99
31) 1,2,4-Trichlorobenzene	6.280	180	220789	29.70	ppm		98
33) Naphthalene	6.344	128	650689	32.37	ppm		98
34) 4-Chloroaniline	6.414	127	307784	30.72	ppm		93

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\sl3631\
Data File : L0681731.D
Acq On : 6 Apr 2015 10:25 am
Operator : marthav
Sample : op55582-bs
Misc : op55582,sl3631,30.0,,,1,1,soil
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Apr 07 07:53:28 2015
Quant Method : C:\msdchem\1\METHODS\8270da0402.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Thu Apr 02 15:27:09 2015
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
35) 2,6-Dichlorophenol	6.430	162	191738	31.02	ppm		99
36) Hexachlorobutadiene	6.542	225	129981	34.21	ppm		94
37) Caprolactam	6.782	113	97997	34.29	ppm		95
38) 4-Chloro-3-methylphenol	6.974	107	272071	37.85	ppm		97
39) 2-Methylnaphthalene	7.151	142	523625	33.33	ppm		99
40) 1-Methylnaphthalene	7.290	142	572454	41.92	ppm		98
41) 1,2,4,5-Tetrachloroben...	7.423	216	214299	31.25	ppm		98
43) Hexachlorocyclopentadiene	7.455	237	121419	28.19	ppm		98
44) 2,4,6-Trichlorophenol	7.557	196	168782	36.74	ppm		95
45) 2,4,5-Trichlorophenol	7.610	196	165765	34.75	ppm		92
47) 1,1'-Biphenyl	7.786	154	603027	35.29	ppm		97
48) 2-Chloronaphthalene	7.802	162	445766	35.53	ppm		99
49) 2-Nitroaniline	7.989	65	187214	39.02	ppm		93
51) Acenaphthylene	8.422	152	773673	37.97	ppm		99
52) Dimethylphthalate	8.326	163	551658	38.26	ppm		100
53) m-Dinitrobenzene	8.331	168	94963	36.18	ppm		95
54) 2,6-Dinitrotoluene	8.417	165	132744	38.60	ppm		95
56) Acenaphthene	8.711	153	481466	38.73	ppm		99
57) 3-Nitroaniline	8.625	138	152969	33.92	ppm		93
58) 2,4-Dinitrophenol	8.785	184	197570	82.17	ppm		97
59) Dibenzofuran	8.962	168	635033	35.99	ppm		92
60) 2,4-Dinitrotoluene	9.037	165	157350	35.57	ppm		91
61) 4-Nitrophenol	8.924	109	149460	82.17	ppm	#	88
63) 2,3,4,6-Tetrachlorophenol	9.239	232	142479	35.42	ppm		97
64) Fluorene	9.528	166	553373	38.12	ppm		99
65) 4-Chlorophenyl-phenyle...	9.549	204	228273	35.85	ppm		98
66) Diethylphthalate	9.485	149	563621	38.83	ppm		98
67) 4-Nitroaniline	9.635	138	162271	38.64	ppm		94
69) 4,6-Dinitro-2-methylph...	9.710	198	217358	82.63	ppm		96
70) n-Nitrosodiphenylamine	9.768	169	368746	37.65	ppm		98
71) Diphenylamine	9.768	169	368746	31.37	ppm		98
72) 1,2-Diphenylhydrazine	9.816	77	598988	38.30	ppm		97
74) 4-Bromophenyl-phenylether	10.383	248	140225	31.81	ppm		96
75) Hexachlorobenzene	10.618	284	163243	31.24	ppm		97
77) Atrazine	10.799	200	140228	35.88	ppm		93
78) Pentachlorophenol	10.944	266	292150	89.40	ppm		99
79) Phenanthrene	11.179	178	766735	38.27	ppm		98
80) Anthracene	11.259	178	763800	38.44	ppm		99
81) Carbazole	11.579	167	778558	38.71	ppm		97
82) Di-n-butylphthalate	12.434	149	979233	39.98	ppm		99
83) Fluoranthene	13.364	202	902059	40.69	ppm		99
85) Benzidine	13.679	184	109428	8.56	ppm		95
86) Pyrene	13.764	202	865141	44.91	ppm		98
88) Butylbenzylphthalate	15.233	149	435117	45.65	ppm		98
89) 3,3'-Dichlorobenzidine	16.093	252	225179	37.41	ppm		99
90) Benzo[a]anthracene	16.045	228	789621	45.54	ppm		98
91) Chrysene	16.126	228	620851	44.40	ppm		98
92) bis(2-Ethylhexyl)phtha...	16.435	149	525055	46.70	ppm		99
94) Di-n-octylphthalate	17.547	149	864418	46.30	ppm		98
95) Benzo[b]fluoranthene	17.974	252	678715	43.70	ppm		98

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\sl3631\
Data File : L0681731.D
Acq On : 6 Apr 2015 10:25 am
Operator : marthav
Sample : op55582-bs
Misc : op55582,sl3631,30.0,,,1,1,soil
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Apr 07 07:53:28 2015
Quant Method : C:\msdchem\1\METHODS\8270da0402.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Thu Apr 02 15:27:09 2015
Response via : Initial Calibration

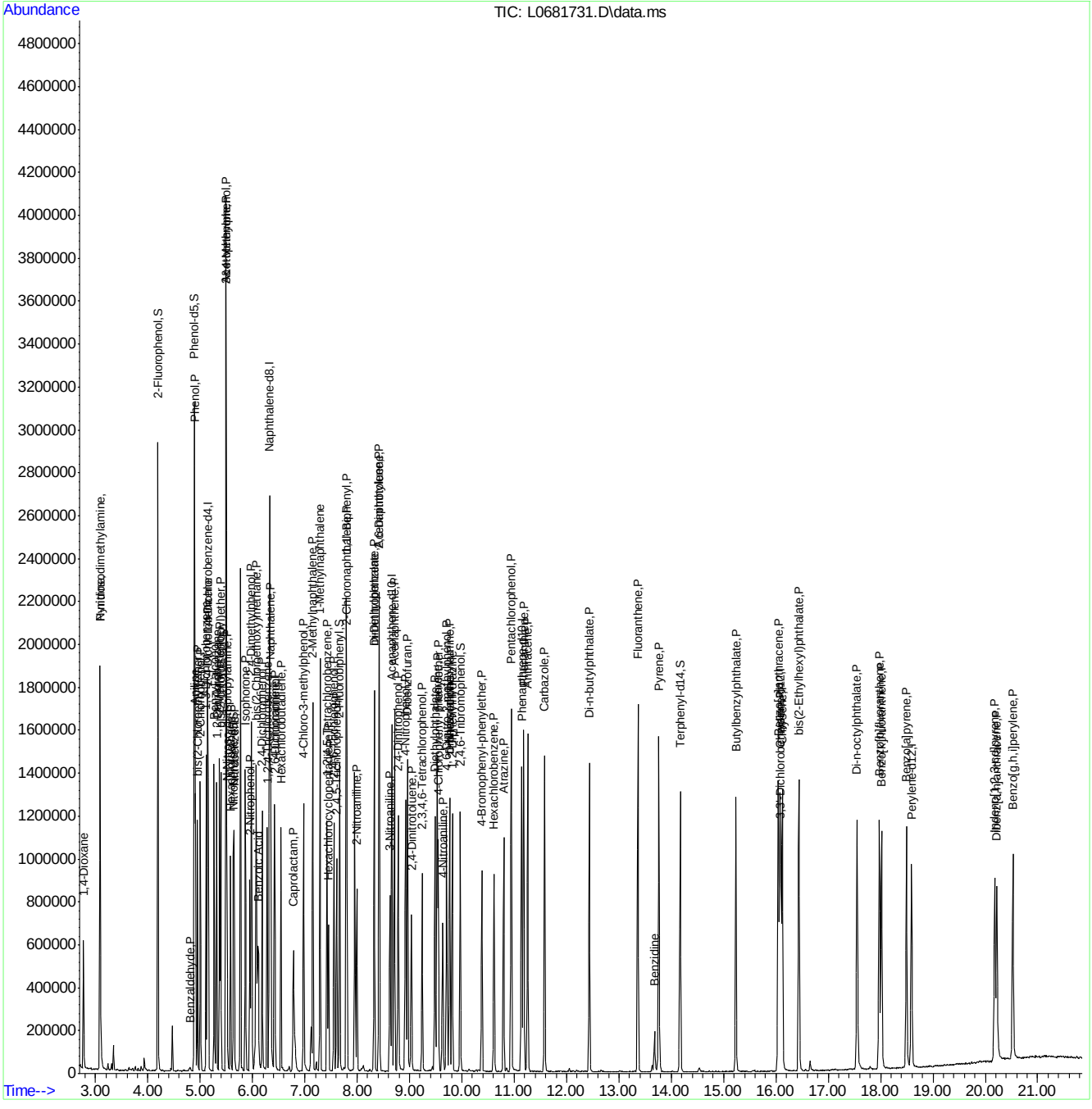
Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
96) Benzo[k]fluoranthene	18.022	252	616290	42.59 ppm	98
97) Benzo[a]pyrene	18.492	252	633540	42.37 ppm	98
98) Indeno[1,2,3-cd]pyrene	20.180	276	484070	41.17 ppm	99
99) Dibenz[a,h]anthracene	20.223	278	492365	44.66 ppm	99
100) Benzo[g,h,i]perylene	20.527	276	557568	45.17 ppm	98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\sl3631\
Data File : L0681731.D
Acq On : 6 Apr 2015 10:25 am
Operator : marthav
Sample : op55582-bs
Misc : op55582,sl3631,30.0,,,1,1,soil
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Apr 07 07:53:28 2015
Quant Method : C:\msdchem\1\METHODS\8270da0402.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Thu Apr 02 15:27:09 2015
Response via : Initial Calibration



Manual Integrations APPROVED (compounds with "m" flag)
Mike Eger
04/08/15 17:02

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\sl3632\
Data File : L0681759.D
Acq On : 7 Apr 2015 12:36 pm
Operator : marthav
Sample : op55582-bs
Misc : op55582,sl3632,30.0,,,1,1,soil
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Apr 08 09:37:16 2015
Quant Method : C:\msdchem\1\METHODS\8270da0402.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Thu Apr 02 15:27:09 2015
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	5.130	152	430311	40.00	ppm	-0.02
22) Naphthalene-d8	6.305	136	1428593	40.00	ppm	-0.02
42) Acenaphthene-d10	8.645	164	805515	40.00	ppm	-0.02
68) Phenanthrene-d10	11.124	188	1267436	40.00	ppm	-0.02
84) Chrysene-d12	16.060	240	941478	40.00	ppm	-0.02
93) Perylene-d12	18.576	264	813657	40.00	ppm	-0.02

System Monitoring Compounds						
7) 2-Fluorophenol	4.184	112	993192	58.70	ppm	0.00
Spiked Amount 100.000	Range 40 - 102		Recovery = 58.70%			
9) Phenol-d5	4.873	99	1353564	74.66	ppm	-0.02
Spiked Amount 100.000	Range 41 - 100		Recovery = 74.66%			
23) Nitrobenzene-d5	5.621	82	554524	35.15	ppm	-0.02
Spiked Amount 50.000	Range 40 - 105		Recovery = 70.30%			
46) 2-Fluorobiphenyl	7.646	172	915729	34.75	ppm	-0.03
Spiked Amount 50.000	Range 43 - 107		Recovery = 69.50%			
73) 2,4,6-Tribromophenol	9.954	330	396495	85.01	ppm	-0.03
Spiked Amount 100.000	Range 42 - 108		Recovery = 85.01%			
87) Terphenyl-d14	14.153	244	1014131	46.47	ppm	-0.03
Spiked Amount 50.000	Range 45 - 119		Recovery = 92.94%			

Target Compounds						Qvalue
2) 1,4-Dioxane	2.785	88	294203	28.62	ppm	97
3) N-nitrosodimethylamine	3.095	42	339182	29.08	ppm	95
4) Pyridine	3.095	79	602229	24.61	ppm	99
5) Benzaldehyde	4.793	106	5747	0.30	ppm	87
6) Aniline	4.895	93	769341	31.56	ppm	85
8) bis(2-Chloroethyl)ether	4.938	93	553639	33.39	ppm	98
10) Phenol	4.884	94	786808	34.59	ppm	97
11) 2-Chlorophenol	4.991	128	543047	35.18	ppm	97
12) 1,3-Dichlorobenzene	5.098	146	530982	30.80	ppm	98
13) 1,4-Dichlorobenzene	5.141	146	525441	32.55	ppm	98
14) 1,2-Dichlorobenzene	5.295	146	490112	31.13	ppm	99
15) Benzyl alcohol	5.253	108	416566	36.38	ppm	98
16) bis(2-chloroisopropyl)...	5.376	45	986166	33.20	ppm	99
17) 2-Methylphenol	5.360	108	531540	35.65	ppm	99
18) Acetophenone	5.482	105	738424	35.15	ppm	97
19) Hexachloroethane	5.563	117	219976	33.78	ppm	99
20) N-Nitroso-di-n-propyla...	5.504	70	385156	36.41	ppm	99
21) 3&4-Methylphenol	5.482	108	1052445	65.72	ppm	98
24) Nitrobenzene	5.637	77	550931	35.03	ppm	97
25) Isophorone	5.851	82	998662	34.03	ppm	98
26) 2-Nitrophenol	5.937	139	299661	37.90	ppm	96
27) 2,4-Dimethylphenol	5.963	107	549592	40.01	ppm	98
28) bis(2-Chloroethoxy)met...	6.054	93	653079	36.06	ppm	99
29) Benzoic Acid	6.123	105	953729	82.10	ppm	98
30) 2,4-Dichlorophenol	6.166	162	428670	36.99	ppm	100
31) 1,2,4-Trichlorobenzene	6.257	180	436231	33.04	ppm	98
33) Naphthalene	6.326	128	1196471	33.51	ppm	98
34) 4-Chloroaniline	6.396	127	599864	33.71	ppm	96

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\sl3632\
Data File : L0681759.D
Acq On : 7 Apr 2015 12:36 pm
Operator : marthav
Sample : op55582-bs
Misc : op55582,sl3632,30.0,,,1,1,soil
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Apr 08 09:37:16 2015
Quant Method : C:\msdchem\1\METHODS\8270da0402.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Thu Apr 02 15:27:09 2015
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
35) 2,6-Dichlorophenol	6.412	162	391350	35.65	ppm		98
36) Hexachlorobutadiene	6.519	225	253782	37.61	ppm		98
37) Caprolactam	6.781	113	189804m	37.40	ppm		
38) 4-Chloro-3-methylphenol	6.962	107	498898	39.08	ppm		97
39) 2-Methylnaphthalene	7.128	142	955793	34.25	ppm		98
40) 1-Methylnaphthalene	7.272	142	1032703	42.59	ppm		99
41) 1,2,4,5-Tetrachloroben...	7.406	216	417232	34.26	ppm		97
43) Hexachlorocyclopentadiene	7.432	237	244003	31.00	ppm		99
44) 2,4,6-Trichlorophenol	7.539	196	340258	40.53	ppm		97
45) 2,4,5-Trichlorophenol	7.593	196	335490	38.47	ppm		96
47) 1,1'-Biphenyl	7.769	154	1059539	33.92	ppm		97
48) 2-Chloronaphthalene	7.785	162	818323	35.68	ppm		98
49) 2-Nitroaniline	7.977	65	335286	38.23	ppm		96
51) Acenaphthylene	8.405	152	1324105	35.55	ppm		96
52) Dimethylphthalate	8.308	163	984140	37.34	ppm		98
53) m-Dinitrobenzene	8.319	168	187293	39.03	ppm		94
54) 2,6-Dinitrotoluene	8.405	165	244266	38.85	ppm		97
56) Acenaphthene	8.693	153	882514	38.84	ppm		97
57) 3-Nitroaniline	8.613	138	288940	35.05	ppm		98
58) 2,4-Dinitrophenol	8.773	184	387043	87.34	ppm		94
59) Dibenzofuran	8.944	168	1121077	34.76	ppm		84
60) 2,4-Dinitrotoluene	9.024	165	312191	38.61	ppm		99
61) 4-Nitrophenol	8.917	109	271754	81.74	ppm	#	84
63) 2,3,4,6-Tetrachlorophenol	9.227	232	286186	38.93	ppm		96
64) Fluorene	9.510	166	992137	37.40	ppm		99
65) 4-Chlorophenyl-phenyle...	9.532	204	431933	37.12	ppm		99
66) Diethylphthalate	9.473	149	1025362	38.65	ppm		98
67) 4-Nitroaniline	9.628	138	294259	38.33	ppm		98
69) 4,6-Dinitro-2-methylph...	9.703	198	413594	94.78	ppm		97
70) n-Nitrosodiphenylamine	9.756	169	691967	42.59	ppm		98
71) Diphenylamine	9.756	169	691967	35.49	ppm		98
72) 1,2-Diphenylhydrazine	9.799	77	1015562	39.14	ppm		96
74) 4-Bromophenyl-phenylether	10.360	248	268948	36.77	ppm		96
75) Hexachlorobenzene	10.595	284	300684	34.69	ppm		97
77) Atrazine	10.793	200	251213	38.75	ppm		99
78) Pentachlorophenol	10.926	266	550018	101.45	ppm		97
79) Phenanthrene	11.166	178	1308645	39.38	ppm		99
80) Anthracene	11.241	178	1296795	39.35	ppm		98
81) Carbazole	11.567	167	1313379	39.36	ppm		99
82) Di-n-butylphthalate	12.417	149	1639682	40.36	ppm		96
83) Fluoranthene	13.346	202	1457692	39.63	ppm		99
85) Benzidine	13.656	184	136342	6.51	ppm		98
86) Pyrene	13.747	202	1437662	45.83	ppm		96
88) Butylbenzylphthalate	15.216	149	763660	49.20	ppm		98
89) 3,3'-Dichlorobenzidine	16.081	252	428194	43.70	ppm		97
90) Benzo[a]anthracene	16.028	228	1280190	45.35	ppm		99
91) Chrysene	16.108	228	1033997	45.42	ppm		97
92) bis(2-Ethylhexyl)phtha...	16.418	149	947055	51.74	ppm		96
94) Di-n-octylphthalate	17.529	149	1522800	49.36	ppm		98
95) Benzo[b]fluoranthene	17.962	252	1073804	41.84	ppm		100

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\sl3632\
Data File : L0681759.D
Acq On : 7 Apr 2015 12:36 pm
Operator : marthav
Sample : op55582-bs
Misc : op55582,sl3632,30.0,,,1,1,soil
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Apr 08 09:37:16 2015
Quant Method : C:\msdchem\1\METHODS\8270da0402.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Thu Apr 02 15:27:09 2015
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
96) Benzo[k]fluoranthene	18.004	252	1019344	42.63 ppm	97
97) Benzo[a]pyrene	18.480	252	1033767	41.84 ppm	98
98) Indeno[1,2,3-cd]pyrene	20.168	276	839560	43.22 ppm	98
99) Dibenz[a,h]anthracene	20.205	278	832566	45.70 ppm	94
100) Benzo[g,h,i]perylene	20.515	276	893077	43.79 ppm	99

(#) = qualifier out of range (m) = manual integration (+) = signals summed

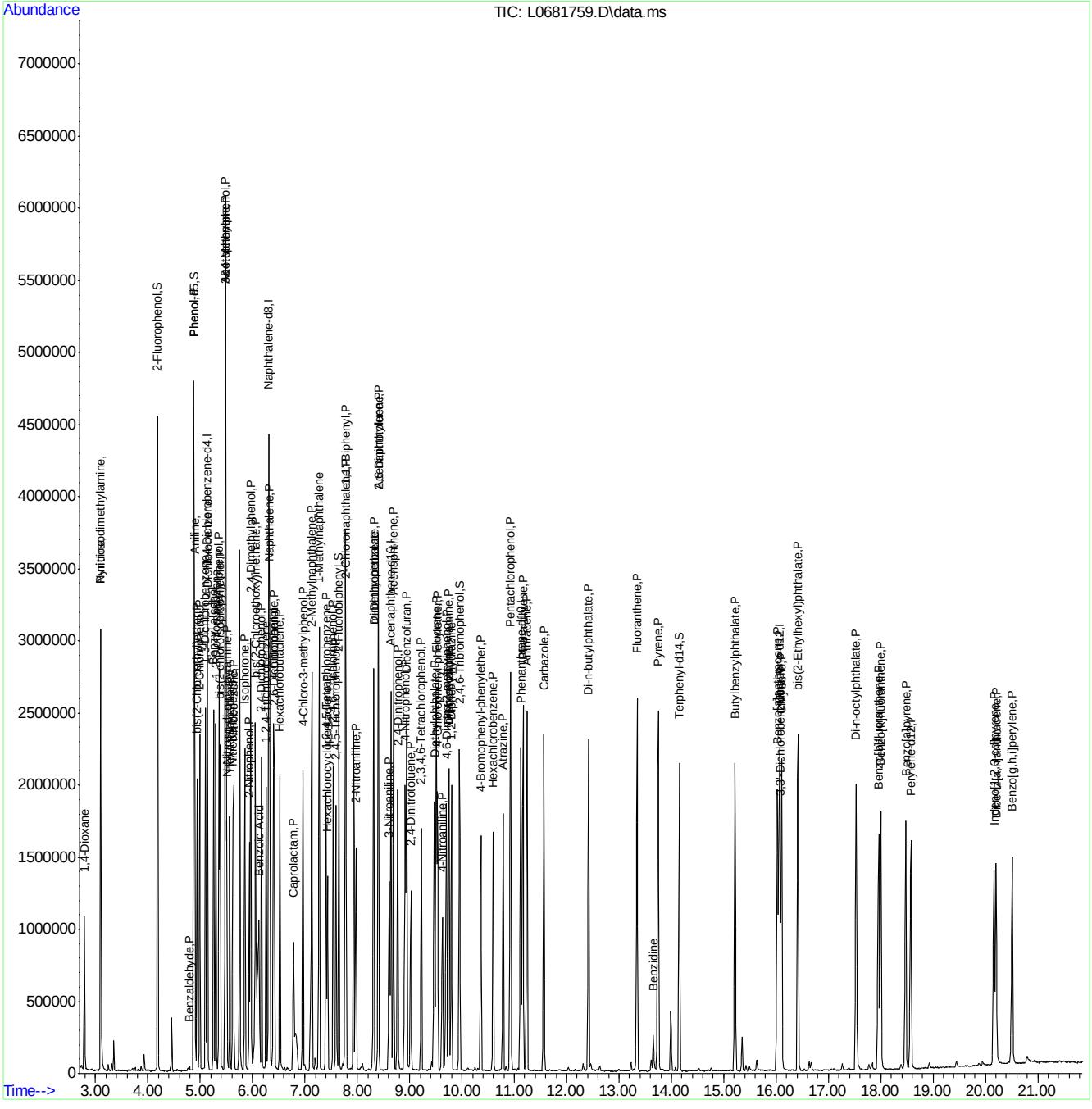
7.3.2

7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\sl3632\
Data File : L0681759.D
Acq On : 7 Apr 2015 12:36 pm
Operator : marthav
Sample : op55582-bs
Misc : op55582,sl3632,30.0,,,1,1,soil
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Apr 08 09:37:16 2015
Quant Method : C:\msdchem\1\METHODS\8270da0402.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Thu Apr 02 15:27:09 2015
Response via : Initial Calibration



Manual Integration Approval Summary

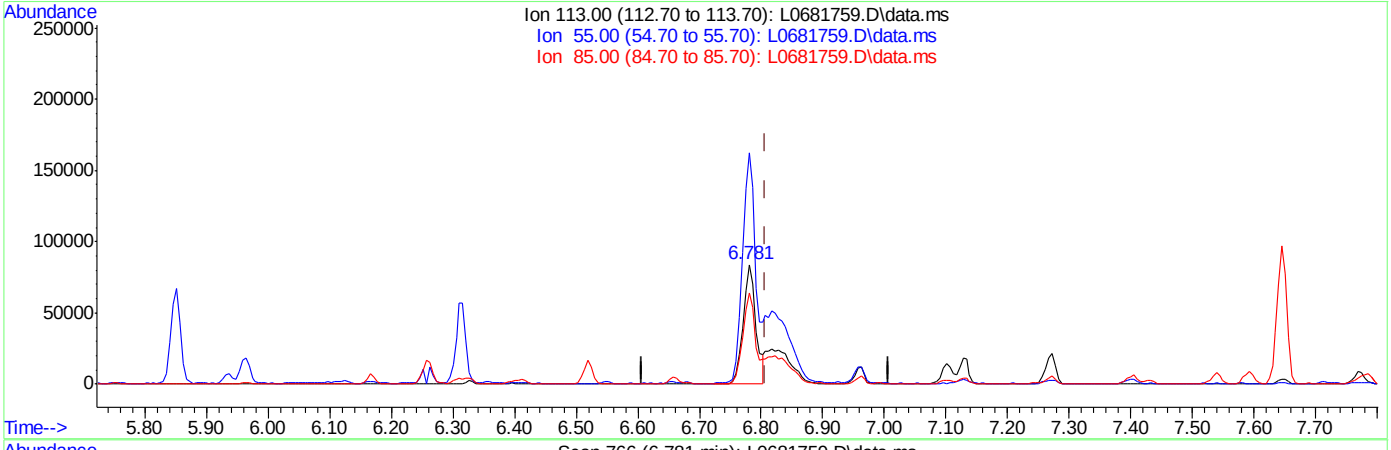
Sample Number:	OP55582-BS	**Method:**	SW846 8270D
Lab FileID:	L0681759.D	**Analyst approved:**	04/08/15 10:29 Martha Valls
Injection Time:	04/07/15 12:36	**Supervisor approved:**	04/08/15 17:02 Mike Eger

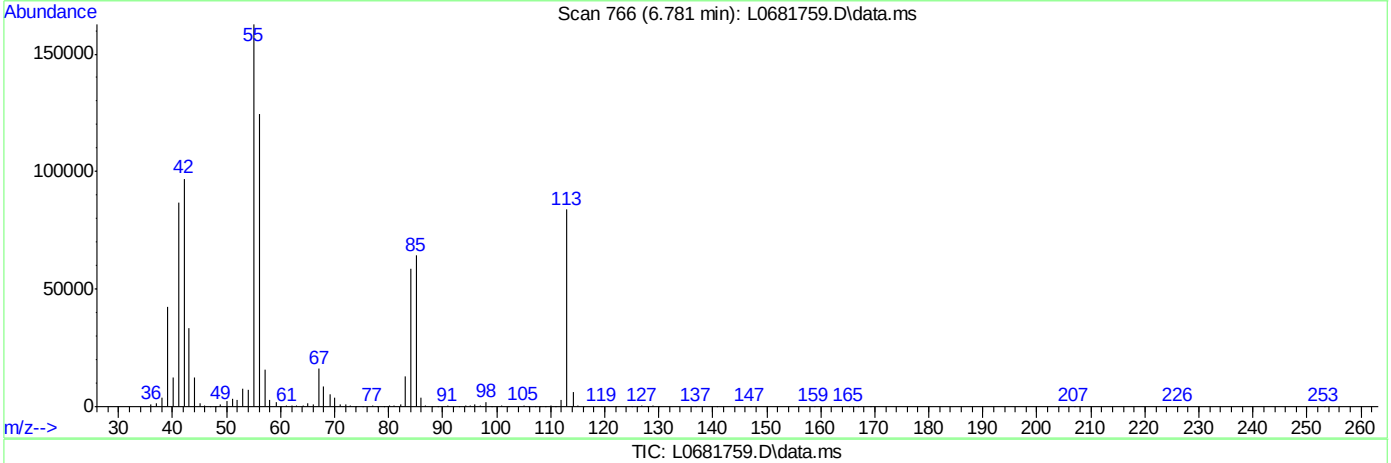
Parameter	CAS	Sig#	R.T. (min.)	Reason
Caprolactam	105-60-2		6.78	Split peak

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\sl3632\
Data File : L0681759.D
Acq On : 7 Apr 2015 12:36 pm
Operator : marthav
Sample : op55582-bs
Misc : op55582,sl3632,30.0,,,1,1,soil
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Apr 08 09:11:42 2015
Quant Method : C:\msdchem\1\METHODS\8270da0402.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Thu Apr 02 15:27:09 2015
Response via : Initial Calibration





TIC: L0681759.D\data.ms

(37) Caprolactam (P)

6.781min (-0.026) 23.23ppm

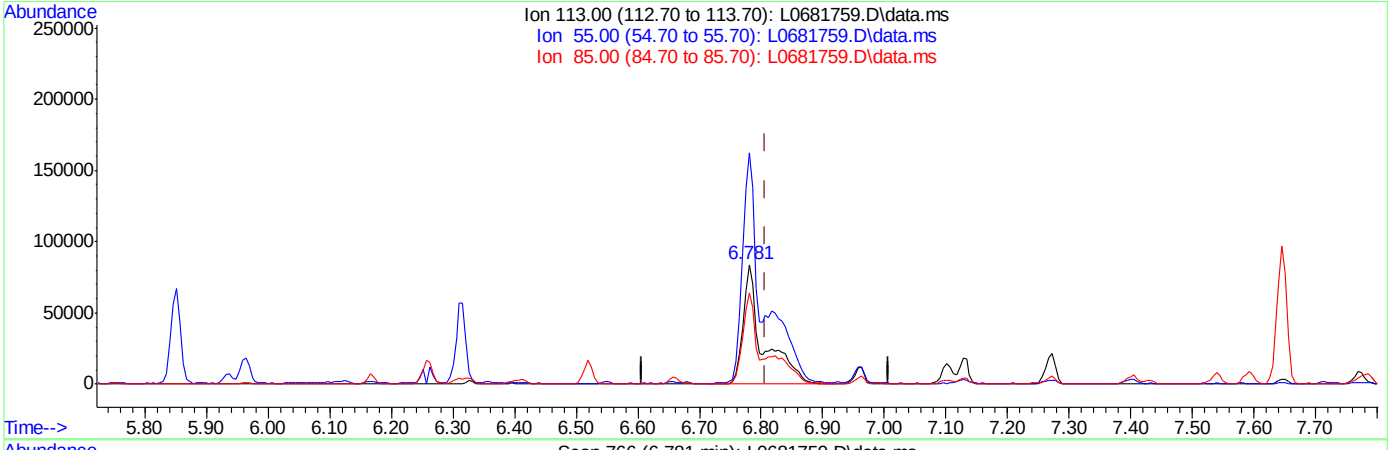
response 117928

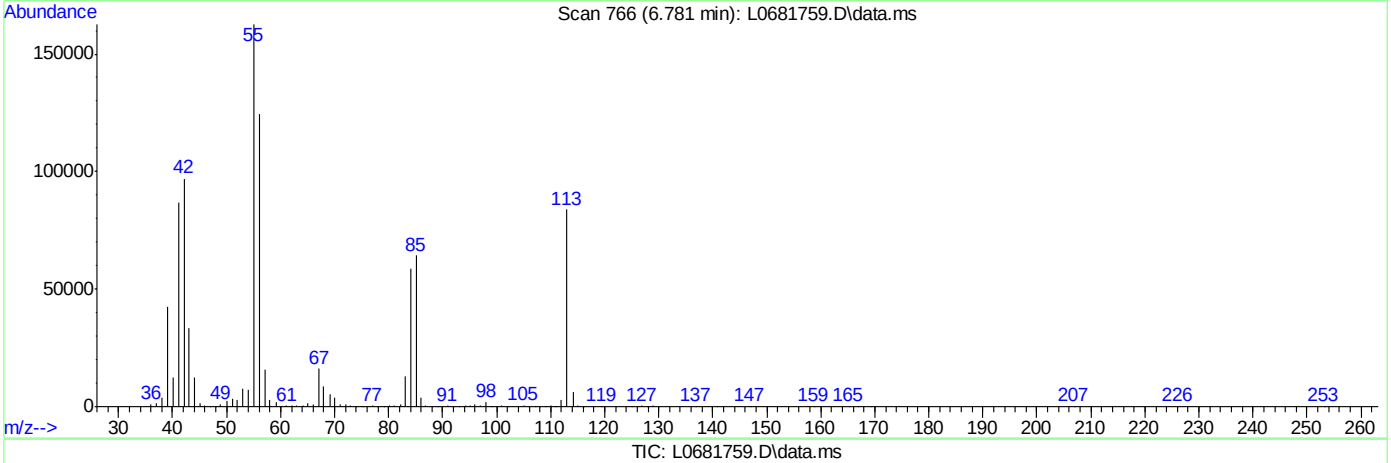
Ion	Exp%	Act%
113.00	100	100
55.00	193.40	191.59
85.00	79.10	75.66
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\sl3632\
Data File : L0681759.D
Acq On : 7 Apr 2015 12:36 pm
Operator : marthav
Sample : op55582-bs
Misc : op55582,sl3632,30.0,,,1,1,soil
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Apr 08 09:11:42 2015
Quant Method : C:\msdchem\1\METHODS\8270da0402.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Thu Apr 02 15:27:09 2015
Response via : Initial Calibration





TIC: L0681759.D\data.ms

(37) Caprolactam (P)

6.781min (-0.026) 37.40ppm m

response 189804

Ion	Exp%	Act%
113.00	100	100
55.00	193.40	193.99
85.00	79.10	76.79
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\sx1832\
Data File : x039418.D
Acq On : 7 Apr 2015 1:24 pm
Operator : marthav
Sample : op55584-bs
Misc : op55584,sx1832,30.0,,,1,1,soil
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Apr 09 09:57:24 2015
Quant Method : C:\msdchem\1\METHODS\8270d_03302.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Tue Mar 31 09:29:41 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.920	152	226986	40.00	ppm	0.00
22) Naphthalene-d8	6.019	136	832059	40.00	ppm	0.00
41) Acenaphthene-d10	7.562	164	455011	40.00	ppm	0.00
67) Phenanthrene-d10	8.847	188	700016	40.00	ppm	0.00
83) Chrysene-d12	11.438	240	549806	40.00	ppm	-0.01
92) Perylene-d12	13.691	264	377034	40.00	ppm	-0.01
System Monitoring Compounds						
5) 2-Fluorophenol	3.925	112	590088	72.61	ppm	0.00
Spiked Amount 100.000	Range 40 - 102		Recovery = 72.61%			
9) Phenol-d5	4.715	99	736607	89.12	ppm	0.00
Spiked Amount 100.000	Range 41 - 100		Recovery = 89.12%			
23) Nitrobenzene-d5	5.417	82	328094	37.23	ppm	-0.02
Spiked Amount 50.000	Range 40 - 105		Recovery = 74.46%			
45) 2-Fluorobiphenyl	6.980	172	582795	37.79	ppm	0.00
Spiked Amount 50.000	Range 43 - 107		Recovery = 75.58%			
72) 2,4,6-Tribromophenol	8.264	330	126449	80.42	ppm	0.00
Spiked Amount 100.000	Range 42 - 108		Recovery = 80.42%			
86) Terphenyl-d14	10.279	244	579902	46.16	ppm	0.02
Spiked Amount 50.000	Range 45 - 119		Recovery = 92.32%			
Target Compounds						Qvalue
2) 1,4-Dioxane	2.303	88	108038	30.33	ppm	96
3) N-nitrosodimethylamine	2.650	42	179893	34.72	ppm	93
4) Pyridine	2.641	79	236545	24.99	ppm	99
6) Benzaldehyde	4.562	106	7619	0.87	ppm	84
7) Aniline	4.684	93	424058	35.30	ppm	97
8) bis(2-Chloroethyl)ether	4.735	93	279347	35.81	ppm	81
10) Phenol	4.729	94	396818	36.69	ppm	91
11) 2-Chlorophenol	4.795	128	323135	37.12	ppm	94
12) 1,3-Dichlorobenzene	4.889	146	300483	32.49	ppm	99
13) 1,4-Dichlorobenzene	4.934	146	314515	34.00	ppm	98
14) 1,2-Dichlorobenzene	5.093	146	289120	32.79	ppm	96
15) Benzyl alcohol	5.073	108	217935	39.01	ppm	95
16) 2-Methylphenol	5.215	108	279516	36.87	ppm	95
17) bis(2-chloroisopropyl)...	5.201	45	558123	37.65	ppm	84
18) Acetophenone	5.289	105	457594	39.92	ppm	96
19) N-Nitroso-di-n-propyla...	5.320	70	179121	39.94	ppm	93
20) 3&4-Methylphenol	5.340	108	619611	77.89	ppm	98
21) Hexachloroethane	5.355	117	125087	33.02	ppm	82
24) Nitrobenzene	5.434	77	319718	38.31	ppm	97
25) Isophorone	5.639	82	574666	37.64	ppm	97
26) 2-Nitrophenol	5.710	139	178905	41.34	ppm	99
27) 2,4-Dimethylphenol	5.775	107	335890	42.53	ppm	98
28) bis(2-Chloroethoxy)met...	5.838	93	326620	37.68	ppm	99
29) Benzoic Acid	5.931	105	458006	76.25	ppm	98
30) 2,4-Dichlorophenol	5.940	162	250170	39.24	ppm	98
31) 1,2,4-Trichlorobenzene	5.985	180	233675	35.95	ppm	99
32) Naphthalene	6.037	128	839486	39.14	ppm	90

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\sx1832\
Data File : x039418.D
Acq On : 7 Apr 2015 1:24 pm
Operator : marthav
Sample : op55584-bs
Misc : op55584,sx1832,30.0,,,1,1,soil
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Apr 09 09:57:24 2015
Quant Method : C:\msdchem\1\METHODS\8270d_03302.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Tue Mar 31 09:29:41 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
33) 4-Chloroaniline	6.110	127	354418	35.78	ppm		97
34) 2,6-Dichlorophenol	5.940	162	250170	39.24	ppm		99
35) Hexachlorobutadiene	6.201	225	142644	39.28	ppm		96
36) Caprolactam	6.409	113	98526	38.09	ppm	#	65
37) 4-Chloro-3-methylphenol	6.571	107	284091	41.10	ppm		98
38) 2-Methylnaphthalene	6.636	142	601633	39.52	ppm		98
39) 1-Methylnaphthalene	6.730	142	644390	47.66	ppm		95
40) 1,2,4,5-Tetrachloroben...	6.818	216	228966	36.05	ppm		99
42) Hexachlorocyclopentadiene	6.841	237	129888	31.86	ppm		98
43) 2,4,6-Trichlorophenol	6.923	196	175928	40.86	ppm		98
44) 2,4,5-Trichlorophenol	6.983	196	180133	39.25	ppm		97
46) 1,1'-Biphenyl	7.054	154	665102	38.37	ppm		87
47) 2-Chloronaphthalene	7.059	162	506503	37.81	ppm		94
48) 2-Nitroaniline	7.184	65	216172	43.08	ppm		94
50) Dimethylphthalate	7.375	163	606769	40.23	ppm		95
51) m-Dinitrobenzene	7.381	168	97349	38.19	ppm		87
52) 2,6-Dinitrotoluene	7.429	165	136309	38.54	ppm		75
54) Acenaphthylene	7.426	152	869657	41.24	ppm		90
55) 3-Nitroaniline	7.184	138	219168	43.28	ppm		100
56) Acenaphthene	7.591	153	553607	40.78	ppm		95
57) 2,4-Dinitrophenol	7.639	184	192198	85.36	ppm		100
58) 4-Nitrophenol	7.764	109	192777	79.61	ppm		92
59) Dibenzofuran	7.730	168	764417	40.35	ppm		91
60) 2,4-Dinitrotoluene	7.767	165	186921	38.81	ppm	#	70
62) 2,3,4,6-Tetrachlorophenol	7.889	232	135651	38.32	ppm		97
63) Diethylphthalate	8.000	149	623916	40.06	ppm		98
64) Fluorene	8.031	166	638738	41.17	ppm		99
65) 4-Chlorophenyl-phenyle...	8.037	204	273445	38.99	ppm		90
66) 4-Nitroaniline	8.097	138	163397	43.31	ppm		87
68) 4,6-Dinitro-2-methylph...	8.128	198	233039	81.57	ppm		99
69) Diphenylamine	8.151	169	457261	35.20	ppm		96
70) n-Nitrosodiphenylamine	8.151	169	457261	42.24	ppm		97
71) 1,2-Diphenylhydrazine	8.173	77	642113	40.52	ppm		95
73) 4-Bromophenyl-phenylether	8.460	248	126518	34.60	ppm		88
74) Hexachlorobenzene	8.585	284	116380	33.14	ppm		86
76) Atrazine	8.653	200	154391	35.53	ppm		77
77) Pentachlorophenol	8.756	266	234135	103.28	ppm		99
78) Phenanthrene	8.869	178	852882	41.47	ppm		99
79) Anthracene	8.906	178	864933	42.16	ppm		98
80) Carbazole	9.060	167	841209	43.36	ppm		98
81) Di-n-butylphthalate	9.424	149	1017932	42.17	ppm		99
82) Fluoranthene	9.918	202	867898	40.82	ppm		96
84) Benzidine	10.043	184	77407	9.60	ppm		98
85) Pyrene	10.114	202	904458	44.50	ppm		91
87) Butylbenzylphthalate	10.827	149	431894	44.48	ppm		97
88) 3,3'-Dichlorobenzidine	11.418	252	190820	43.48	ppm		92
89) Benzo[a]anthracene	11.413	228	732771	46.20	ppm		98
90) Chrysene	11.472	228	689578	45.81	ppm		99
91) bis(2-Ethylhexyl)phtha...	11.600	149	590543	45.94	ppm		99
93) Di-n-octylphthalate	12.560	149	863740	44.73	ppm		98

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\sx1832\
Data File : x039418.D
Acq On : 7 Apr 2015 1:24 pm
Operator : marthav
Sample : op55584-bs
Misc : op55584,sx1832,30.0,,,1,1,soil
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Apr 09 09:57:24 2015
Quant Method : C:\msdchem\1\METHODS\8270d_03302.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Tue Mar 31 09:29:41 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
94) Benzo[b]fluoranthene	13.041	252	547059	45.28 ppm	99
95) Benzo[k]fluoranthene	13.083	252	549285	44.32 ppm	99
96) Benzo[a]pyrene	13.586	252	496920	45.84 ppm	98
97) Indeno[1,2,3-cd]pyrene	15.703	276	305614	41.78 ppm	96
98) Dibenz[a,h]anthracene	15.771	278	322693	46.90 ppm	99
99) Benzo[g,h,i]perylene	16.189	276	372971	46.30 ppm	98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

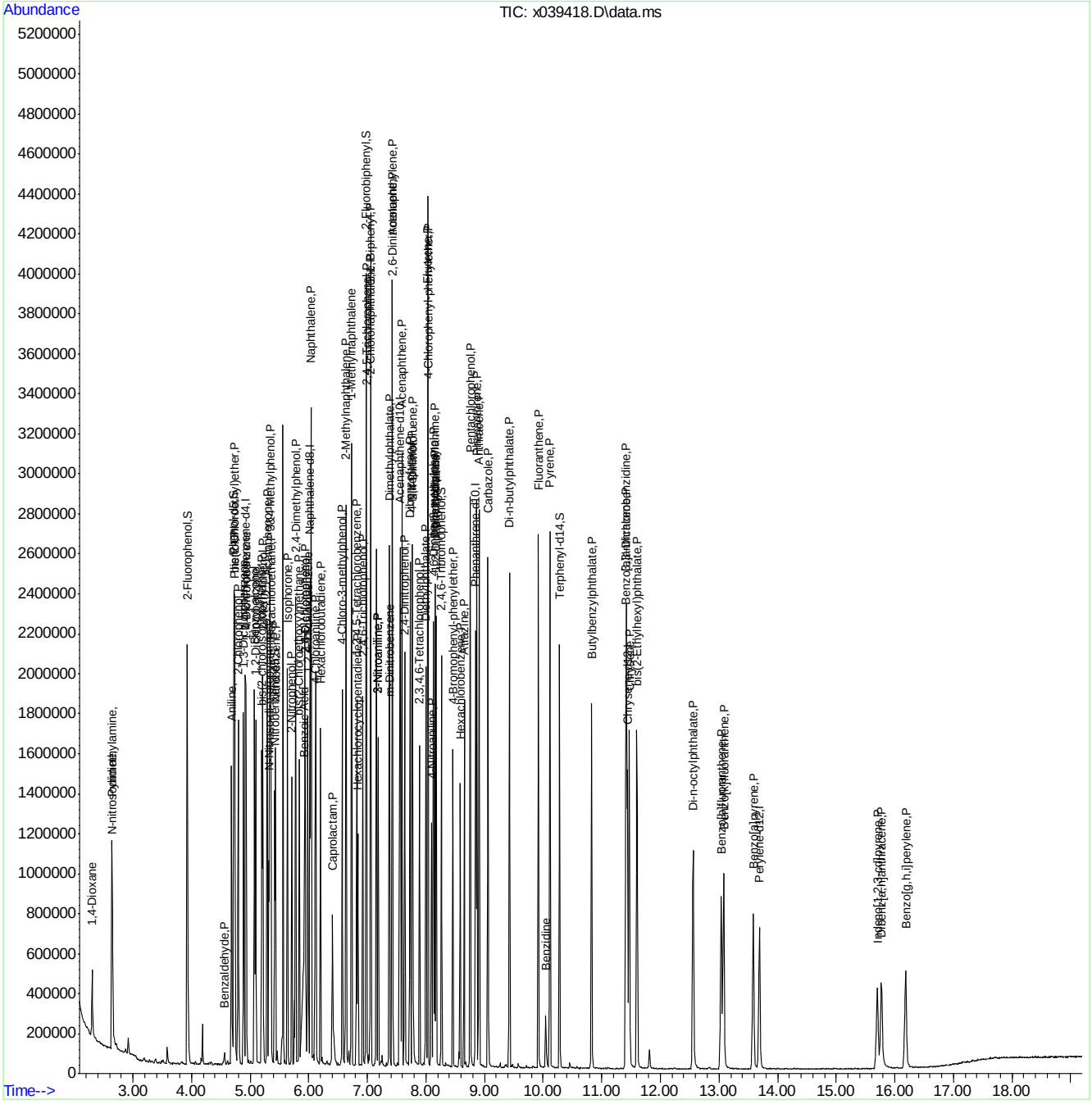
7.3.3

7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\sx1832\
Data File : x039418.D
Acq On : 7 Apr 2015 1:24 pm
Operator : marthav
Sample : op55584-bs
Misc : op55584,sx1832,30.0,,,1,1,soil
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Apr 09 09:57:24 2015
Quant Method : C:\msdchem\1\METHODS\8270d_03302.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Tue Mar 31 09:29:41 2015
Response via : Initial Calibration



ACCUTEST LABORATORIES FA23258

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\st811\
Data File : T017740.D
Acq On : 7 Apr 2015 6:46 pm
Operator : mayrag
Sample : op55593-bs
Misc : op55593,st811,250,,,1,1,water
ALS Vial : 28 Sample Multiplier: 1

Quant Time: Apr 08 10:14:16 2015
Quant Method : C:\msdchem\1\METHODS\SIM_LV.M
Quant Title : PAH's by 8270 SIM
QLast Update : Wed Apr 08 09:06:52 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) Naphthalene-d8	6.372	136	279643	500.00 ppb	0.00
6) Acenaphthene-d10	7.904	164	143677	500.00 ppb	0.00
11) Phenanthrene-d10	9.206	188	232871	500.00 ppb	0.00
17) Chrysene-d12	11.737	240	173533	500.00 ppb	0.00
22) Perylene-d12	13.934	264	99790	500.00 ppb	0.00
System Monitoring Compounds					
2) Nitrobenzene-d5	5.756	82	430540	1666.82 ppb	0.00
Spiked Amount 2000.000	Range 38 - 126		Recovery =	83.34%	
7) 2-Fluorobiphenyl	7.325	172	782812	1671.76 ppb	0.00
Spiked Amount 2000.000	Range 41 - 109		Recovery =	83.59%	
12) 2,4,6-Tribromophenol	8.606	330	154513	2749.60 ppb	0.00
Spiked Amount 4000.000	Range 33 - 118		Recovery =	68.74%	
19) Terphenyl-d14	10.627	244	591025	1769.28 ppb	0.00
Spiked Amount 2000.000	Range 46 - 135		Recovery =	88.46%	

Target Compounds Qvalue

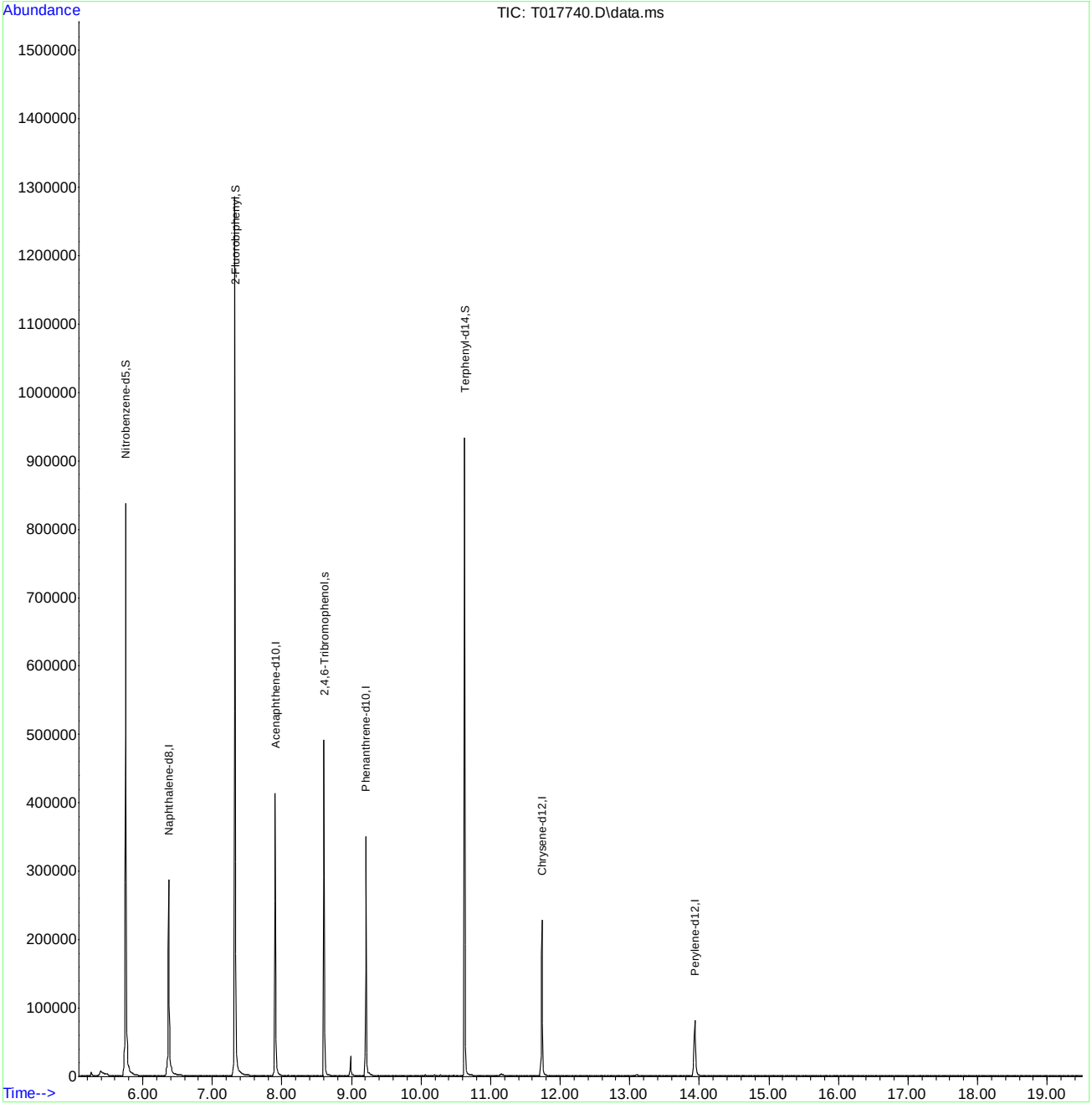
(#) = qualifier out of range (m) = manual integration (+) = signals summed

ACCUTEST LABORATORIES FA23258

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\st811\
Data File : T017740.D
Acq On : 7 Apr 2015 6:46 pm
Operator : mayrag
Sample : op55593-bs
Misc : op55593,st811,250,,,1,1,water
ALS Vial : 28 Sample Multiplier: 1

Quant Time: Apr 08 10:14:16 2015
Quant Method : C:\msdchem\1\METHODS\SIM_LV.M
Quant Title : PAH's by 8270 SIM
QLast Update : Wed Apr 08 09:06:52 2015
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\sl3631\
Data File : L0681744.D
Acq On : 6 Apr 2015 5:49 pm
Operator : marthav
Sample : op55582-ms
Misc : op55582,sl3631,30.2,,,1,1,soil
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Apr 07 08:03:43 2015
Quant Method : C:\msdchem\1\METHODS\8270da0402.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Thu Apr 02 15:27:09 2015
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	5.146	152	374585	40.00	ppm	0.00
22) Naphthalene-d8	6.326	136	1274864	40.00	ppm	0.00
42) Acenaphthene-d10	8.666	164	618768	40.00	ppm	0.00
68) Phenanthrene-d10	11.145	188	941874	40.00	ppm	0.00
84) Chrysene-d12	16.087	240	663865	40.00	ppm	0.00
93) Perylene-d12	18.603	264	568823	40.00	ppm	0.00

System Monitoring Compounds						
7) 2-Fluorophenol	4.200	112	819947	55.67	ppm	0.01
Spiked Amount 100.000	Range 40 - 102		Recovery = 55.67%			
9) Phenol-d5	4.889	99	1113574	70.56	ppm	0.00
Spiked Amount 100.000	Range 41 - 100		Recovery = 70.56%			
23) Nitrobenzene-d5	5.637	82	447214	31.77	ppm	0.00
Spiked Amount 50.000	Range 40 - 105		Recovery = 63.54%			
46) 2-Fluorobiphenyl	7.667	172	703029	34.73	ppm	0.00
Spiked Amount 50.000	Range 43 - 107		Recovery = 69.46%			
73) 2,4,6-Tribromophenol	9.975	330	274010	79.06	ppm	0.00
Spiked Amount 100.000	Range 42 - 108		Recovery = 79.06%			
87) Terphenyl-d14	14.174	244	693749	45.09	ppm	0.00
Spiked Amount 50.000	Range 45 - 119		Recovery = 90.18%			

Target Compounds						Qvalue
2) 1,4-Dioxane	2.811	88	231080	25.82	ppm	97
3) N-nitrosodimethylamine	3.121	42	298848	29.44	ppm	97
4) Pyridine	3.121	79	463809	21.78	ppm	94
5) Benzaldehyde	4.809	106	5014	0.30	ppm	90
6) Aniline	4.911	93	590099	27.80	ppm	85
8) bis(2-Chloroethyl)ether	4.954	93	453415	31.41	ppm	98
10) Phenol	4.900	94	619526	31.29	ppm	97
11) 2-Chlorophenol	5.007	128	409487	30.48	ppm	95
12) 1,3-Dichlorobenzene	5.114	146	425616	28.36	ppm	97
13) 1,4-Dichlorobenzene	5.157	146	423131	30.11	ppm	95
14) 1,2-Dichlorobenzene	5.317	146	394803	28.80	ppm	99
15) Benzyl alcohol	5.269	108	310491	31.15	ppm	98
16) bis(2-chloroisopropyl)...	5.397	45	835276	32.31	ppm	100
17) 2-Methylphenol	5.376	108	398570	30.71	ppm	98
18) Acetophenone	5.498	105	603103	32.98	ppm	98
19) Hexachloroethane	5.584	117	176642	31.16	ppm	98
20) N-Nitroso-di-n-propyla...	5.520	70	301720	32.77	ppm	97
21) 3&4-Methylphenol	5.498	108	855115	61.34	ppm	99
24) Nitrobenzene	5.653	77	441986	31.49	ppm	97
25) Isophorone	5.867	82	788208	30.09	ppm	97
26) 2-Nitrophenol	5.953	139	227391	32.23	ppm	93
27) 2,4-Dimethylphenol	5.979	107	428406	34.95	ppm	97
28) bis(2-Chloroethoxy)met...	6.075	93	518855	32.10	ppm	98
29) Benzoic Acid	6.081	105	186509	17.99	ppm	90
30) 2,4-Dichlorophenol	6.188	162	320427	30.99	ppm	98
31) 1,2,4-Trichlorobenzene	6.284	180	337989	28.69	ppm	98
33) Naphthalene	6.348	128	984091	30.89	ppm	100
34) 4-Chloroaniline	6.417	127	447945	28.21	ppm	93

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\sl3631\
Data File : L0681744.D
Acq On : 6 Apr 2015 5:49 pm
Operator : marthav
Sample : op55582-ms
Misc : op55582,sl3631,30.2,,,1,1,soil
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Apr 07 08:03:43 2015
Quant Method : C:\msdchem\1\METHODS\8270da0402.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Thu Apr 02 15:27:09 2015
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
35) 2,6-Dichlorophenol	6.433	162	285596	29.15	ppm		99
36) Hexachlorobutadiene	6.545	225	198449	32.95	ppm		97
37) Caprolactam	6.786	113	117622	25.97	ppm		93
38) 4-Chloro-3-methylphenol	6.978	107	376489	33.05	ppm		98
39) 2-Methylnaphthalene	7.154	142	745121	29.92	ppm		99
40) 1-Methylnaphthalene	7.293	142	812893	37.56	ppm		99
41) 1,2,4,5-Tetrachloroben...	7.427	216	306171	28.17	ppm		97
43) Hexachlorocyclopentadiene	7.454	237	165429	27.36	ppm		100
44) 2,4,6-Trichlorophenol	7.560	196	239010	37.06	ppm		95
45) 2,4,5-Trichlorophenol	7.614	196	230991	34.48	ppm		94
47) 1,1'-Biphenyl	7.790	154	828043	34.51	ppm		100
48) 2-Chloronaphthalene	7.806	162	618263	35.10	ppm		99
49) 2-Nitroaniline	7.999	65	247516	36.74	ppm		99
51) Acenaphthylene	8.426	152	1025806	35.85	ppm		99
52) Dimethylphthalate	8.330	163	739060	36.50	ppm		99
53) m-Dinitrobenzene	8.340	168	123702	33.56	ppm		93
54) 2,6-Dinitrotoluene	8.426	165	176839	36.62	ppm		95
56) Acenaphthene	8.714	153	649808	37.23	ppm		98
57) 3-Nitroaniline	8.634	138	208263	32.89	ppm		98
58) 2,4-Dinitrophenol	8.789	184	174617	54.14	ppm		95
59) Dibenzofuran	8.965	168	838907	33.86	ppm		86
60) 2,4-Dinitrotoluene	9.040	165	211663	34.08	ppm		91
61) 4-Nitrophenol	8.933	109	177440	69.48	ppm	#	89
63) 2,3,4,6-Tetrachlorophenol	9.249	232	193653	34.29	ppm		100
64) Fluorene	9.532	166	721606	35.41	ppm		99
65) 4-Chlorophenyl-phenyle...	9.553	204	306265	34.26	ppm		97
66) Diethylphthalate	9.489	149	738192	36.22	ppm		100
67) 4-Nitroaniline	9.644	138	199277	33.80	ppm		97
69) 4,6-Dinitro-2-methylph...	9.719	198	227709	70.22	ppm		96
70) n-Nitrosodiphenylamine	9.772	169	471650	39.06	ppm		98
71) Diphenylamine	9.772	169	471650	32.55	ppm		98
72) 1,2-Diphenylhydrazine	9.820	77	756834	39.25	ppm		99
74) 4-Bromophenyl-phenylether	10.386	248	183818	33.82	ppm		97
75) Hexachlorobenzene	10.622	284	204932	31.81	ppm		100
77) Atrazine	10.809	200	170173	35.32	ppm		95
78) Pentachlorophenol	10.953	266	346431	85.99	ppm		98
79) Phenanthrene	11.188	178	926774	37.53	ppm		99
80) Anthracene	11.263	178	918625	37.51	ppm		100
81) Carbazole	11.588	167	915846	36.94	ppm		98
82) Di-n-butylphthalate	12.438	149	1180588	39.10	ppm		99
83) Fluoranthene	13.367	202	992256	36.30	ppm		98
85) Benzidine	13.688	184	327877	23.33	ppm		97
86) Pyrene	13.773	202	942148	42.60	ppm		99
88) Butylbenzylphthalate	15.237	149	492082	44.96	ppm		97
89) 3,3'-Dichlorobenzidine	16.103	252	274029	39.66	ppm		98
90) Benzo[a]anthracene	16.054	228	800525	40.22	ppm		100
91) Chrysene	16.129	228	641340	39.95	ppm		99
92) bis(2-Ethylhexyl)phtha...	16.439	149	606037	46.95	ppm		99
94) Di-n-octylphthalate	17.556	149	939823	43.58	ppm		97
95) Benzo[b]fluoranthene	17.983	252	674622	37.60	ppm		98

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\sl3631\
Data File : L0681744.D
Acq On : 6 Apr 2015 5:49 pm
Operator : marthav
Sample : op55582-ms
Misc : op55582,sl3631,30.2,,,1,1,soil
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Apr 07 08:03:43 2015
Quant Method : C:\msdchem\1\METHODS\8270da0402.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Thu Apr 02 15:27:09 2015
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
96) Benzo[k]fluoranthene	18.026	252	621280	37.16 ppm	99
97) Benzo[a]pyrene	18.501	252	619141	35.85 ppm	99
98) Indeno[1,2,3-cd]pyrene	20.189	276	484324	35.66 ppm	99
99) Dibenz[a,h]anthracene	20.227	278	471749	37.04 ppm	96
100) Benzo[g,h,i]perylene	20.537	276	524880	36.81 ppm	97

(#) = qualifier out of range (m) = manual integration (+) = signals summed

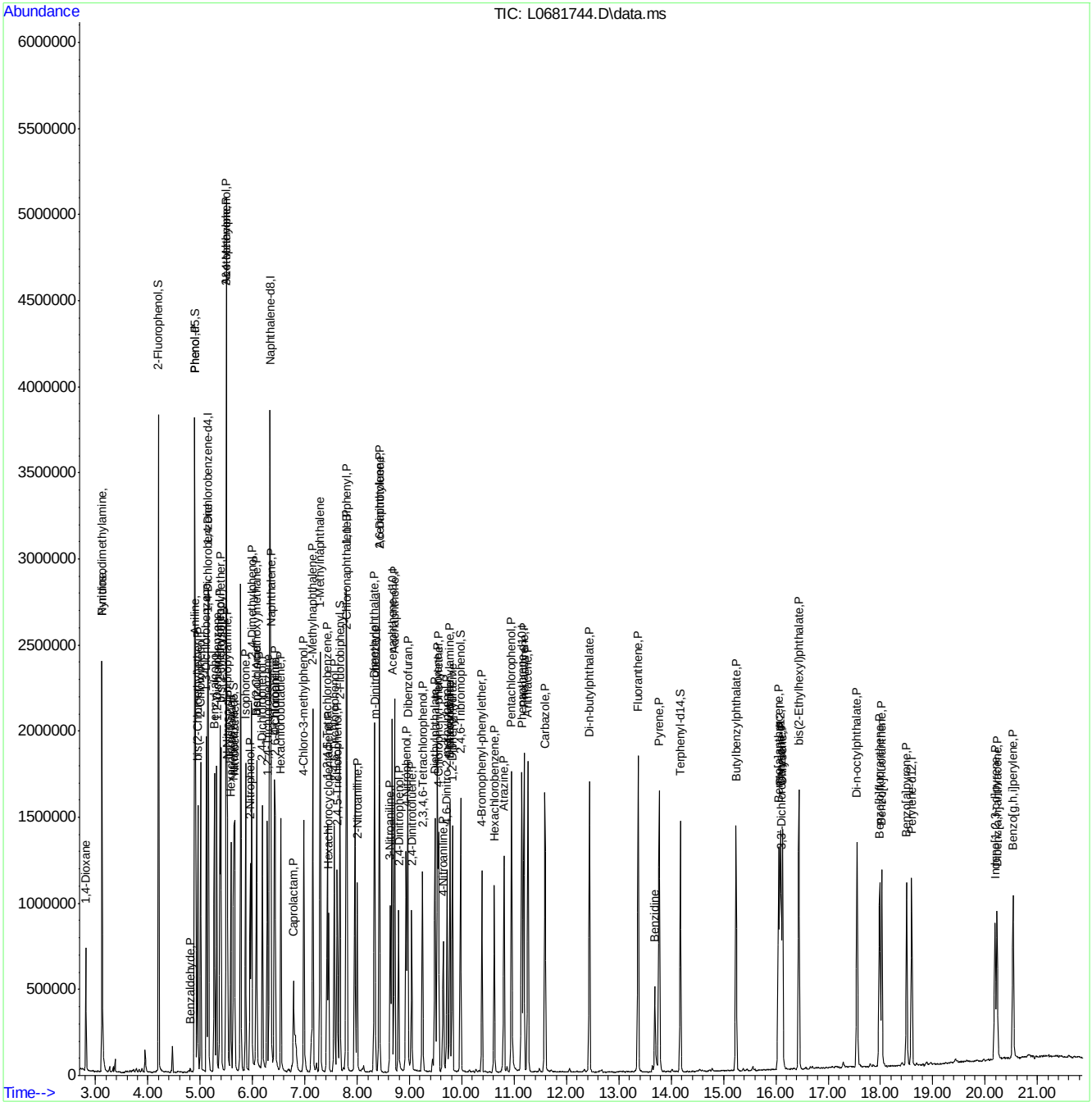
7.4.1

7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\sl3631\
Data File : L0681744.D
Acq On : 6 Apr 2015 5:49 pm
Operator : marthav
Sample : op55582-ms
Misc : op55582,sl3631,30.2,,,1,1,soil
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Apr 07 08:03:43 2015
Quant Method : C:\msdchem\1\METHODS\8270da0402.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Thu Apr 02 15:27:09 2015
Response via : Initial Calibration



8270da0402.m Tue Apr 07 08:16:21 2015 Page: 4

ACCUTEST LABORATORIES FA23258

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\sl3631\
Data File : L0681745.D
Acq On : 6 Apr 2015 6:16 pm
Operator : marthav
Sample : op55582-msd
Misc : op55582,sl3631,30.3,,,1,1,soil
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Apr 07 08:04:03 2015
Quant Method : C:\msdchem\1\METHODS\8270da0402.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Thu Apr 02 15:27:09 2015
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	5.143	152	251603	40.00 ppm	0.00
22) Naphthalene-d8	6.329	136	920531	40.00 ppm	0.00
42) Acenaphthene-d10	8.663	164	454934	40.00 ppm	0.00
68) Phenanthrene-d10	11.142	188	704683	40.00 ppm	0.00
84) Chrysene-d12	16.083	240	524311	40.00 ppm	0.00
93) Perylene-d12	18.594	264	463856	40.00 ppm	0.00

System Monitoring Compounds					
7) 2-Fluorophenol	4.192	112	651595	65.87 ppm	0.00
Spiked Amount 100.000	Range 40 - 102		Recovery = 65.87%		
9) Phenol-d5	4.886	99	904208	85.30 ppm	0.00
Spiked Amount 100.000	Range 41 - 100		Recovery = 85.30%		
23) Nitrobenzene-d5	5.634	82	348264	34.26 ppm	0.00
Spiked Amount 50.000	Range 40 - 105		Recovery = 68.52%		
46) 2-Fluorobiphenyl	7.670	172	561314	37.71 ppm	0.00
Spiked Amount 50.000	Range 43 - 107		Recovery = 75.42%		
73) 2,4,6-Tribromophenol	9.972	330	224845	86.71 ppm	0.00
Spiked Amount 100.000	Range 42 - 108		Recovery = 86.71%		
87) Terphenyl-d14	14.176	244	561547	46.21 ppm	0.00
Spiked Amount 50.000	Range 45 - 119		Recovery = 92.42%		

Target Compounds					Qvalue
2) 1,4-Dioxane	2.782	88	178005	29.61 ppm	96
3) N-nitrosodimethylamine	3.091	42	235547	34.54 ppm	93
4) Pyridine	3.097	79	365834	25.57 ppm	97
5) Benzaldehyde	4.806	106	4039	0.36 ppm	84
6) Aniline	4.913	93	473879	33.24 ppm	95
8) bis(2-Chloroethyl)ether	4.950	93	359033	37.03 ppm	98
10) Phenol	4.897	94	500760	37.65 ppm	99
11) 2-Chlorophenol	5.004	128	326222	36.15 ppm	93
12) 1,3-Dichlorobenzene	5.116	146	329052	32.64 ppm	97
13) 1,4-Dichlorobenzene	5.159	146	325884	34.53 ppm	98
14) 1,2-Dichlorobenzene	5.314	146	312039	33.89 ppm	97
15) Benzyl alcohol	5.271	108	248866	37.17 ppm	99
16) bis(2-chloroisopropyl)...	5.394	45	671930	38.69 ppm	97
17) 2-Methylphenol	5.372	108	313242	35.93 ppm	97
18) Acetophenone	5.495	105	482356	39.27 ppm	98
19) Hexachloroethane	5.581	117	135655	35.63 ppm	100
20) N-Nitroso-di-n-propyla...	5.517	70	234761	37.96 ppm	97
21) 3&4-Methylphenol	5.495	108	684962	73.15 ppm	99
24) Nitrobenzene	5.656	77	353514	34.88 ppm	99
25) Isophorone	5.864	82	624619	33.03 ppm	96
26) 2-Nitrophenol	5.955	139	178323	35.00 ppm	97
27) 2,4-Dimethylphenol	5.981	107	348821	39.41 ppm	98
28) bis(2-Chloroethoxy)met...	6.072	93	410147	35.15 ppm	97
29) Benzoic Acid	6.072	105	167346	22.36 ppm	95
30) 2,4-Dichlorophenol	6.184	162	255543	34.23 ppm	100
31) 1,2,4-Trichlorobenzene	6.281	180	263422	30.96 ppm	97
33) Naphthalene	6.350	128	774194	33.65 ppm	97
34) 4-Chloroaniline	6.420	127	356112	31.06 ppm	95

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\sl3631\
Data File : L0681745.D
Acq On : 6 Apr 2015 6:16 pm
Operator : marthav
Sample : op55582-msd
Misc : op55582,sl3631,30.3,,,1,1,soil
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Apr 07 08:04:03 2015
Quant Method : C:\msdchem\1\METHODS\8270da0402.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Thu Apr 02 15:27:09 2015
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
35) 2,6-Dichlorophenol	6.430	162	230755	32.62	ppm	98
36) Hexachlorobutadiene	6.542	225	152647	35.10	ppm	98
37) Caprolactam	6.777	113	96557	29.52	ppm	92
38) 4-Chloro-3-methylphenol	6.980	107	304751	37.05	ppm	98
39) 2-Methylnaphthalene	7.151	142	617100	34.32	ppm	99
40) 1-Methylnaphthalene	7.296	142	653322	41.81	ppm	99
41) 1,2,4,5-Tetrachloroben...	7.424	216	246028	31.35	ppm	99
43) Hexachlorocyclopentadiene	7.456	237	125773	28.29	ppm	99
44) 2,4,6-Trichlorophenol	7.563	196	193528	40.81	ppm	98
45) 2,4,5-Trichlorophenol	7.616	196	191526	38.89	ppm	96
47) 1,1'-Biphenyl	7.792	154	671260	38.05	ppm	99
48) 2-Chloronaphthalene	7.803	162	495342	38.25	ppm	99
49) 2-Nitroaniline	7.995	65	207131	41.81	ppm	96
51) Acenaphthylene	8.423	152	846735	40.25	ppm	98
52) Dimethylphthalate	8.327	163	606359	40.73	ppm	100
53) m-Dinitrobenzene	8.337	168	100523	37.09	ppm	96
54) 2,6-Dinitrotoluene	8.423	165	145526	40.99	ppm	98
56) Acenaphthene	8.711	153	517910	40.36	ppm	99
57) 3-Nitroaniline	8.631	138	172030	36.95	ppm	100
58) 2,4-Dinitrophenol	8.786	184	136276	57.18	ppm	92
59) Dibenzofuran	8.968	168	699481	38.40	ppm	90
60) 2,4-Dinitrotoluene	9.043	165	176536	38.66	ppm	99
61) 4-Nitrophenol	8.930	109	152289	81.10	ppm	90
63) 2,3,4,6-Tetrachlorophenol	9.246	232	159109	38.32	ppm	99
64) Fluorene	9.529	166	594686	39.69	ppm	99
65) 4-Chlorophenyl-phenyle...	9.555	204	249025	37.89	ppm	100
66) Diethylphthalate	9.486	149	604317	40.33	ppm	99
67) 4-Nitroaniline	9.641	138	162771	37.55	ppm	95
69) 4,6-Dinitro-2-methylph...	9.716	198	184085	75.87	ppm	91
70) n-Nitrosodiphenylamine	9.769	169	400609	44.34	ppm	98
71) Diphenylamine	9.769	169	400609	36.95	ppm	98
72) 1,2-Diphenylhydrazine	9.817	77	642981	44.57	ppm	97
74) 4-Bromophenyl-phenylether	10.383	248	152053	37.39	ppm	97
75) Hexachlorobenzene	10.618	284	169293	35.12	ppm	97
77) Atrazine	10.800	200	137054	38.02	ppm	83
78) Pentachlorophenol	10.950	266	279205	92.63	ppm	97
79) Phenanthrene	11.185	178	783490	42.40	ppm	97
80) Anthracene	11.259	178	785707	42.88	ppm	99
81) Carbazole	11.585	167	770552	41.54	ppm	97
82) Di-n-butylphthalate	12.440	149	990448	43.85	ppm	99
83) Fluoranthene	13.364	202	841520	41.15	ppm	96
85) Benzidine	13.685	184	251442	22.60	ppm	96
86) Pyrene	13.770	202	800140	45.80	ppm	97
88) Butylbenzylphthalate	15.239	149	414172	47.92	ppm	99
89) 3,3'-Dichlorobenzidine	16.105	252	241440	44.24	ppm	98
90) Benzo[a]anthracene	16.051	228	715440	45.51	ppm	99
91) Chrysene	16.126	228	575910	45.42	ppm	98
92) bis(2-Ethylhexyl)phtha...	16.441	149	506707	49.71	ppm	99
94) Di-n-octylphthalate	17.553	149	823196	46.81	ppm	96
95) Benzo[b]fluoranthene	17.985	252	605907	41.41	ppm	98

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\sl3631\
Data File : L0681745.D
Acq On : 6 Apr 2015 6:16 pm
Operator : marthav
Sample : op55582-msd
Misc : op55582,sl3631,30.3,,,1,1,soil
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Apr 07 08:04:03 2015
Quant Method : C:\msdchem\1\METHODS\8270da0402.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Thu Apr 02 15:27:09 2015
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
96) Benzo[k]fluoranthene	18.023	252	571154	41.90 ppm	98
97) Benzo[a]pyrene	18.498	252	573609	40.72 ppm	97
98) Indeno[1,2,3-cd]pyrene	20.186	276	449884	40.62 ppm	99
99) Dibenz[a,h]anthracene	20.229	278	457255	44.03 ppm	97
100) Benzo[g,h,i]perylene	20.533	276	502355	43.21 ppm	97

(#) = qualifier out of range (m) = manual integration (+) = signals summed

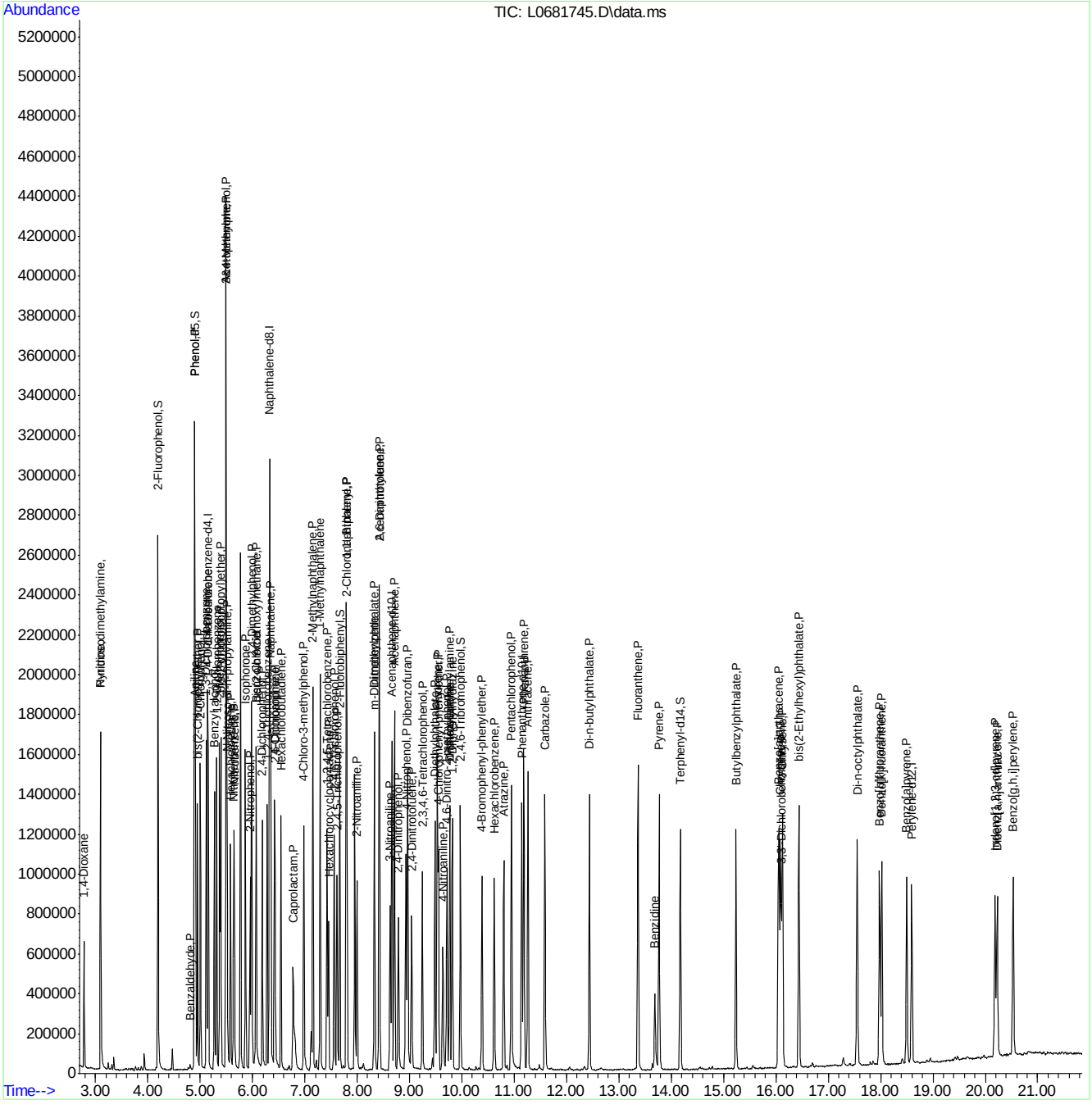
7.4.2

7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\sl3631\
Data File : L0681745.D
Acq On : 6 Apr 2015 6:16 pm
Operator : marthav
Sample : op55582-msd
Misc : op55582,sl3631,30.3,,,1,1,soil
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Apr 07 08:04:03 2015
Quant Method : C:\msdchem\1\METHODS\8270da0402.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Thu Apr 02 15:27:09 2015
Response via : Initial Calibration



8270da0402.m Tue Apr 07 08:16:22 2015 Page: 4

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\sx1832\
Data File : x039421.D
Acq On : 7 Apr 2015 2:39 pm
Operator : marthav
Sample : op55584-ms
Misc : op55584,sx1832,30.3,,,1,1,soil
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Apr 09 09:57:56 2015
Quant Method : C:\msdchem\1\METHODS\8270d_03302.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Tue Mar 31 09:29:41 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.923	152	221948	40.00	ppm	0.00
22) Naphthalene-d8	6.019	136	834781	40.00	ppm	0.00
41) Acenaphthene-d10	7.562	164	440772	40.00	ppm	0.00
67) Phenanthrene-d10	8.847	188	661982	40.00	ppm	0.00
83) Chrysene-d12	11.435	240	535039	40.00	ppm	-0.01
92) Perylene-d12	13.691	264	377783	40.00	ppm	-0.01
System Monitoring Compounds						
5) 2-Fluorophenol	3.928	112	558797	70.32	ppm	0.00
Spiked Amount 100.000	Range 40 - 102		Recovery = 70.32%			
9) Phenol-d5	4.718	99	690926	85.49	ppm	0.00
Spiked Amount 100.000	Range 41 - 100		Recovery = 85.49%			
23) Nitrobenzene-d5	5.420	82	314546	35.57	ppm	-0.02
Spiked Amount 50.000	Range 40 - 105		Recovery = 71.14%			
45) 2-Fluorobiphenyl	6.977	172	550570	36.85	ppm	0.00
Spiked Amount 50.000	Range 43 - 107		Recovery = 73.70%			
72) 2,4,6-Tribromophenol	8.264	330	116360	78.25	ppm	0.00
Spiked Amount 100.000	Range 42 - 108		Recovery = 78.25%			
86) Terphenyl-d14	10.279	244	556840	45.55	ppm	0.02
Spiked Amount 50.000	Range 45 - 119		Recovery = 91.10%			
Target Compounds						Qvalue
2) 1,4-Dioxane	2.309	88	99879	28.68	ppm	98
3) N-nitrosodimethylamine	2.652	42	171175	33.79	ppm	91
4) Pyridine	2.644	79	202572	21.89	ppm	95
6) Benzaldehyde	4.562	106	3261	0.38	ppm	89
7) Aniline	4.684	93	388409	33.07	ppm	95
8) bis(2-Chloroethyl)ether	4.738	93	253351	33.22	ppm	85
10) Phenol	4.729	94	371821	35.16	ppm	93
11) 2-Chlorophenol	4.798	128	299070	35.13	ppm	93
12) 1,3-Dichlorobenzene	4.891	146	276485	30.57	ppm	97
13) 1,4-Dichlorobenzene	4.937	146	281378	31.10	ppm	98
14) 1,2-Dichlorobenzene	5.096	146	265805	30.83	ppm	96
15) Benzyl alcohol	5.076	108	197651	36.18	ppm	97
16) 2-Methylphenol	5.218	108	258909	34.93	ppm	92
17) bis(2-chloroisopropyl)...	5.201	45	519372	35.43	ppm	84
18) Acetophenone	5.289	105	394899	35.24	ppm	94
19) N-Nitroso-di-n-propyla...	5.321	70	164973	37.62	ppm	91
20) 3&4-Methylphenol	5.340	108	572649	73.63	ppm	98
21) Hexachloroethane	5.357	117	113534	30.65	ppm	85
24) Nitrobenzene	5.434	77	293736	35.09	ppm	95
25) Isophorone	5.639	82	534220	34.88	ppm	97
26) 2-Nitrophenol	5.710	139	162975	37.53	ppm	93
27) 2,4-Dimethylphenol	5.775	107	307823	38.84	ppm	98
28) bis(2-Chloroethoxy)met...	5.838	93	299735	34.47	ppm	98
29) Benzoic Acid	5.912	105	269556	44.73	ppm	97
30) 2,4-Dichlorophenol	5.940	162	236755	37.01	ppm	98
31) 1,2,4-Trichlorobenzene	5.985	180	209895	32.19	ppm	97
32) Naphthalene	6.037	128	772114	35.88	ppm	90

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\sx1832\
Data File : x039421.D
Acq On : 7 Apr 2015 2:39 pm
Operator : marthav
Sample : op55584-ms
Misc : op55584,sx1832,30.3,,,1,1,soil
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Apr 09 09:57:56 2015
Quant Method : C:\msdchem\1\METHODS\8270d_03302.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Tue Mar 31 09:29:41 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
33) 4-Chloroaniline	6.110	127	338325	34.05	ppm		96
34) 2,6-Dichlorophenol	5.940	162	236755	37.01	ppm		98
35) Hexachlorobutadiene	6.201	225	126953	34.84	ppm		99
36) Caprolactam	6.400	113	92117	35.50	ppm	#	65
37) 4-Chloro-3-methylphenol	6.571	107	260236	37.53	ppm		96
38) 2-Methylnaphthalene	6.636	142	556781	36.45	ppm		99
39) 1-Methylnaphthalene	6.730	142	602495	44.42	ppm		98
40) 1,2,4,5-Tetrachloroben...	6.818	216	205826	32.30	ppm		98
42) Hexachlorocyclopentadiene	6.841	237	112427	28.46	ppm		98
43) 2,4,6-Trichlorophenol	6.920	196	159853	38.32	ppm		96
44) 2,4,5-Trichlorophenol	6.983	196	163457	36.77	ppm		98
46) 1,1'-Biphenyl	7.054	154	610600	36.36	ppm		87
47) 2-Chloronaphthalene	7.059	162	465012	35.84	ppm		94
48) 2-Nitroaniline	7.184	65	197768	40.68	ppm		97
50) Dimethylphthalate	7.372	163	564605	38.65	ppm		95
51) m-Dinitrobenzene	7.381	168	90452	36.63	ppm		88
52) 2,6-Dinitrotoluene	7.429	165	128233	37.43	ppm		88
54) Acenaphthylene	7.426	152	787742	38.56	ppm		89
55) 3-Nitroaniline	7.184	138	199208	40.61	ppm		100
56) Acenaphthene	7.588	153	516641	39.29	ppm		95
57) 2,4-Dinitrophenol	7.636	184	142344	68.44	ppm		98
58) 4-Nitrophenol	7.761	109	178278	76.33	ppm		92
59) Dibenzofuran	7.727	168	688557	37.52	ppm		90
60) 2,4-Dinitrotoluene	7.767	165	172824	37.04	ppm	#	75
62) 2,3,4,6-Tetrachlorophenol	7.886	232	124511	36.31	ppm		97
63) Diethylphthalate	7.997	149	571420	37.88	ppm		98
64) Fluorene	8.028	166	590550	39.30	ppm		99
65) 4-Chlorophenyl-phenyle...	8.034	204	244694	36.02	ppm		88
66) 4-Nitroaniline	8.094	138	149018	40.78	ppm		90
68) 4,6-Dinitro-2-methylph...	8.125	198	203304	76.07	ppm		89
69) Diphenylamine	8.148	169	409636	33.34	ppm		97
70) n-Nitrosodiphenylamine	8.148	169	409636	40.01	ppm		96
71) 1,2-Diphenylhydrazine	8.173	77	586824	39.15	ppm		96
73) 4-Bromophenyl-phenylether	8.457	248	116748	33.76	ppm		85
74) Hexachlorobenzene	8.585	284	107401	32.34	ppm		87
76) Atrazine	8.651	200	144514	35.17	ppm	#	76
77) Pentachlorophenol	8.753	266	199949	93.27	ppm		97
78) Phenanthrene	8.867	178	796737	40.96	ppm		100
79) Anthracene	8.906	178	785977	40.51	ppm		98
80) Carbazole	9.057	167	757907	41.31	ppm		97
81) Di-n-butylphthalate	9.424	149	932835	40.87	ppm		100
82) Fluoranthene	9.918	202	827275	41.15	ppm		97
84) Benzidine	10.043	184	197163	25.12	ppm		97
85) Pyrene	10.114	202	833527	42.14	ppm		89
87) Butylbenzylphthalate	10.824	149	411615	43.56	ppm		97
88) 3,3'-Dichlorobenzidine	11.418	252	172943	40.49	ppm		94
89) Benzo[a]anthracene	11.413	228	687341	44.53	ppm		97
90) Chrysene	11.469	228	634017	43.28	ppm		99
91) bis(2-Ethylhexyl)phtha...	11.600	149	545262	43.59	ppm		99
93) Di-n-octylphthalate	12.558	149	816645	42.21	ppm		98

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\sx1832\
Data File : x039421.D
Acq On : 7 Apr 2015 2:39 pm
Operator : marthav
Sample : op55584-ms
Misc : op55584,sx1832,30.3,,,1,1,soil
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Apr 09 09:57:56 2015
Quant Method : C:\msdchem\1\METHODS\8270d_03302.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Tue Mar 31 09:29:41 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
94) Benzo[b]fluoranthene	13.038	252	515142	42.55 ppm	98
95) Benzo[k]fluoranthene	13.080	252	526438	42.39 ppm	97
96) Benzo[a]pyrene	13.583	252	454666	41.85 ppm	99
97) Indeno[1,2,3-cd]pyrene	15.700	276	294733	40.33 ppm	98
98) Dibenz[a,h]anthracene	15.771	278	297032	43.51 ppm	96
99) Benzo[g,h,i]perylene	16.183	276	348272	43.15 ppm	100

(#) = qualifier out of range (m) = manual integration (+) = signals summed

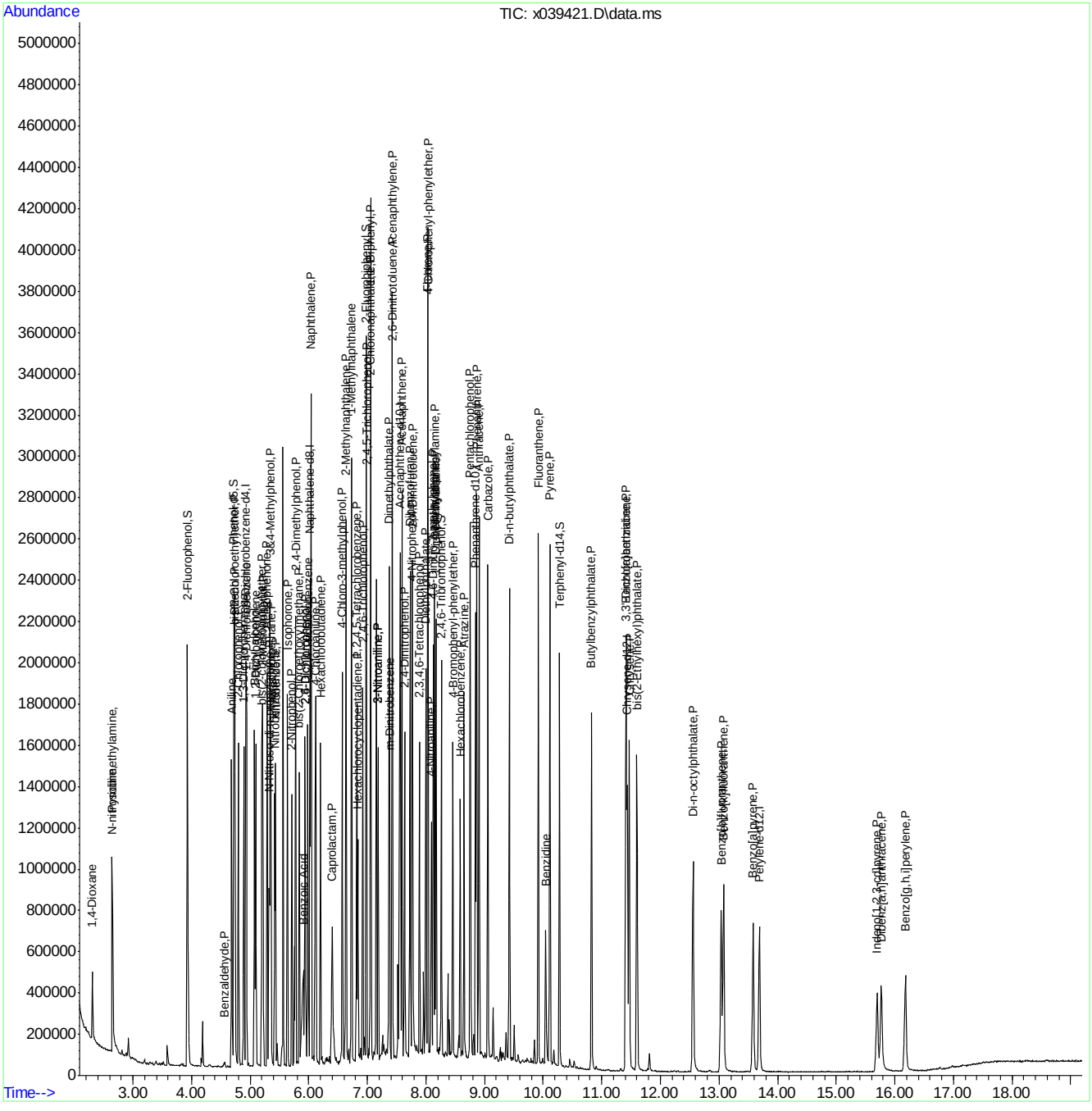
7.4.3

7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\sx1832\
Data File : x039421.D
Acq On : 7 Apr 2015 2:39 pm
Operator : marthav
Sample : op55584-ms
Misc : op55584,sx1832,30.3,,,1,1,soil
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Apr 09 09:57:56 2015
Quant Method : C:\msdchem\1\METHODS\8270d_03302.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Tue Mar 31 09:29:41 2015
Response via : Initial Calibration



ACCUTEST LABORATORIES FA23258

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\sx1832\
Data File : x039422.D
Acq On : 7 Apr 2015 3:04 pm
Operator : marthav
Sample : op55584-msd
Misc : op55584,sx1832,30.4,,,1,1,soil
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Apr 09 09:59:17 2015
Quant Method : C:\msdchem\1\METHODS\8270d_03302.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Tue Mar 31 09:29:41 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.923	152	233398	40.00	ppm	0.00
22) Naphthalene-d8	6.017	136	860751	40.00	ppm	0.00
41) Acenaphthene-d10	7.560	164	463374	40.00	ppm	0.00
67) Phenanthrene-d10	8.847	188	710625	40.00	ppm	0.00
83) Chrysene-d12	11.432	240	552134	40.00	ppm	-0.02
92) Perylene-d12	13.689	264	390962	40.00	ppm	-0.02
System Monitoring Compounds						
5) 2-Fluorophenol	3.928	112	575061	68.82	ppm	0.00
Spiked Amount 100.000	Range 40 - 102		Recovery = 68.82%			
9) Phenol-d5	4.718	99	714193	84.04	ppm	0.00
Spiked Amount 100.000	Range 41 - 100		Recovery = 84.04%			
23) Nitrobenzene-d5	5.417	82	327380	35.91	ppm	-0.02
Spiked Amount 50.000	Range 40 - 105		Recovery = 71.82%			
45) 2-Fluorobiphenyl	6.977	172	576891	36.73	ppm	0.00
Spiked Amount 50.000	Range 43 - 107		Recovery = 73.46%			
72) 2,4,6-Tribromophenol	8.261	330	125319	78.51	ppm	0.00
Spiked Amount 100.000	Range 42 - 108		Recovery = 78.51%			
86) Terphenyl-d14	10.276	244	575542	45.62	ppm	0.01
Spiked Amount 50.000	Range 45 - 119		Recovery = 91.24%			
Target Compounds						Qvalue
2) 1,4-Dioxane	2.314	88	109191	29.81	ppm	93
3) N-nitrosodimethylamine	2.658	42	177215	33.27	ppm	93
4) Pyridine	2.650	79	227972	23.42	ppm	99
6) Benzaldehyde	4.562	106	3074	0.34	ppm	91
7) Aniline	4.684	93	415120	33.61	ppm	96
8) bis(2-Chloroethyl)ether	4.738	93	270483	33.73	ppm	84
10) Phenol	4.730	94	391563	35.21	ppm	91
11) 2-Chlorophenol	4.798	128	316175	35.32	ppm	93
12) 1,3-Dichlorobenzene	4.891	146	294388	30.95	ppm	99
13) 1,4-Dichlorobenzene	4.937	146	308905	32.47	ppm	97
14) 1,2-Dichlorobenzene	5.096	146	282238	31.13	ppm	99
15) Benzyl alcohol	5.076	108	213199	37.12	ppm	99
16) 2-Methylphenol	5.215	108	268079	34.39	ppm	92
17) bis(2-chloroisopropyl)...	5.201	45	544257	35.28	ppm	85
18) Acetophenone	5.289	105	407533	34.58	ppm	95
19) N-Nitroso-di-n-propyla...	5.321	70	172511	37.41	ppm	92
20) 3&4-Methylphenol	5.338	108	601705	73.57	ppm	94
21) Hexachloroethane	5.355	117	121325	31.15	ppm	81
24) Nitrobenzene	5.434	77	309307	35.83	ppm	98
25) Isophorone	5.639	82	572577	36.26	ppm	96
26) 2-Nitrophenol	5.710	139	169940	37.96	ppm	92
27) 2,4-Dimethylphenol	5.775	107	324690	39.74	ppm	98
28) bis(2-Chloroethoxy)met...	5.838	93	316979	35.35	ppm	99
29) Benzoic Acid	5.912	105	282812	45.51	ppm	99
30) 2,4-Dichlorophenol	5.937	162	252913	38.34	ppm	96
31) 1,2,4-Trichlorobenzene	5.985	180	224407	33.38	ppm	98
32) Naphthalene	6.037	128	825088	37.18	ppm	89

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\sx1832\
Data File : x039422.D
Acq On : 7 Apr 2015 3:04 pm
Operator : marthav
Sample : op55584-msd
Misc : op55584,sx1832,30.4,,,1,1,soil
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Apr 09 09:59:17 2015
Quant Method : C:\msdchem\1\METHODS\8270d_03302.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Tue Mar 31 09:29:41 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
33) 4-Chloroaniline	6.108	127	355887	34.73	ppm		95
34) 2,6-Dichlorophenol	5.937	162	252913	38.34	ppm		99
35) Hexachlorobutadiene	6.201	225	139394	37.10	ppm		99
36) Caprolactam	6.400	113	95681	35.76	ppm	#	66
37) 4-Chloro-3-methylphenol	6.571	107	275055	38.47	ppm		90
38) 2-Methylnaphthalene	6.633	142	575201	36.52	ppm		97
39) 1-Methylnaphthalene	6.730	142	639708	45.74	ppm		96
40) 1,2,4,5-Tetrachloroben...	6.818	216	228869	34.84	ppm		97
42) Hexachlorocyclopentadiene	6.838	237	126016	30.35	ppm		97
43) 2,4,6-Trichlorophenol	6.920	196	171567	39.12	ppm		95
44) 2,4,5-Trichlorophenol	6.980	196	176814	37.83	ppm		99
46) 1,1'-Biphenyl	7.051	154	655732	37.14	ppm		86
47) 2-Chloronaphthalene	7.057	162	492863	36.13	ppm		96
48) 2-Nitroaniline	7.182	65	209658	41.03	ppm		95
50) Dimethylphthalate	7.372	163	598457	38.96	ppm		95
51) m-Dinitrobenzene	7.378	168	94851	36.54	ppm	#	75
52) 2,6-Dinitrotoluene	7.426	165	135840	37.71	ppm		79
54) Acenaphthylene	7.423	152	845662	39.37	ppm		89
55) 3-Nitroaniline	7.182	138	210934	40.90	ppm		98
56) Acenaphthene	7.588	153	548885	39.71	ppm		94
57) 2,4-Dinitrophenol	7.633	184	144764	66.57	ppm		94
58) 4-Nitrophenol	7.761	109	187355	76.31	ppm		92
59) Dibenzofuran	7.727	168	745099	38.62	ppm		85
60) 2,4-Dinitrotoluene	7.764	165	180429	36.79	ppm	#	73
62) 2,3,4,6-Tetrachlorophenol	7.886	232	130368	36.16	ppm		98
63) Diethylphthalate	7.997	149	616891	38.90	ppm		97
64) Fluorene	8.028	166	627853	39.74	ppm		100
65) 4-Chlorophenyl-phenyle...	8.034	204	266043	37.25	ppm		89
66) 4-Nitroaniline	8.094	138	154776	40.29	ppm		89
68) 4,6-Dinitro-2-methylph...	8.125	198	206155	72.38	ppm		75
69) Diphenylamine	8.148	169	434486	32.94	ppm		95
70) n-Nitrosodiphenylamine	8.148	169	434486	39.53	ppm		98
71) 1,2-Diphenylhydrazine	8.170	77	627269	38.99	ppm		94
73) 4-Bromophenyl-phenylether	8.457	248	123265	33.21	ppm		88
74) Hexachlorobenzene	8.582	284	114050	31.99	ppm		82
76) Atrazine	8.651	200	145818	33.06	ppm	#	74
77) Pentachlorophenol	8.753	266	208097	90.43	ppm		97
78) Phenanthrene	8.867	178	842308	40.34	ppm		99
79) Anthracene	8.904	178	833410	40.02	ppm		98
80) Carbazole	9.057	167	814944	41.38	ppm		98
81) Di-n-butylphthalate	9.421	149	999166	40.78	ppm		99
82) Fluoranthene	9.915	202	870503	40.33	ppm		96
84) Benzidine	10.040	184	219915	27.15	ppm		98
85) Pyrene	10.114	202	884837	43.35	ppm		89
87) Butylbenzylphthalate	10.822	149	432989	44.41	ppm		97
88) 3,3'-Dichlorobenzidine	11.415	252	180203	40.89	ppm		95
89) Benzo[a]anthracene	11.410	228	695640	43.67	ppm		100
90) Chrysene	11.467	228	664965	43.99	ppm		99
91) bis(2-Ethylhexyl)phtha...	11.597	149	568978	44.07	ppm		98
93) Di-n-octylphthalate	12.555	149	855896	42.75	ppm		98

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\sx1832\
Data File : x039422.D
Acq On : 7 Apr 2015 3:04 pm
Operator : marthav
Sample : op55584-msd
Misc : op55584,sx1832,30.4,,,1,1,soil
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Apr 09 09:59:17 2015
Quant Method : C:\msdchem\1\METHODS\8270d_03302.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Tue Mar 31 09:29:41 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
94) Benzo[b]fluoranthene	13.035	252	540783	43.17 ppm	99
95) Benzo[k]fluoranthene	13.078	252	553721	43.09 ppm	99
96) Benzo[a]pyrene	13.581	252	485042	43.15 ppm	99
97) Indeno[1,2,3-cd]pyrene	15.697	276	313553	41.37 ppm	94
98) Dibenz[a,h]anthracene	15.766	278	310348	43.88 ppm	97
99) Benzo[g,h,i]perylene	16.180	276	370901	44.41 ppm	99

(#) = qualifier out of range (m) = manual integration (+) = signals summed

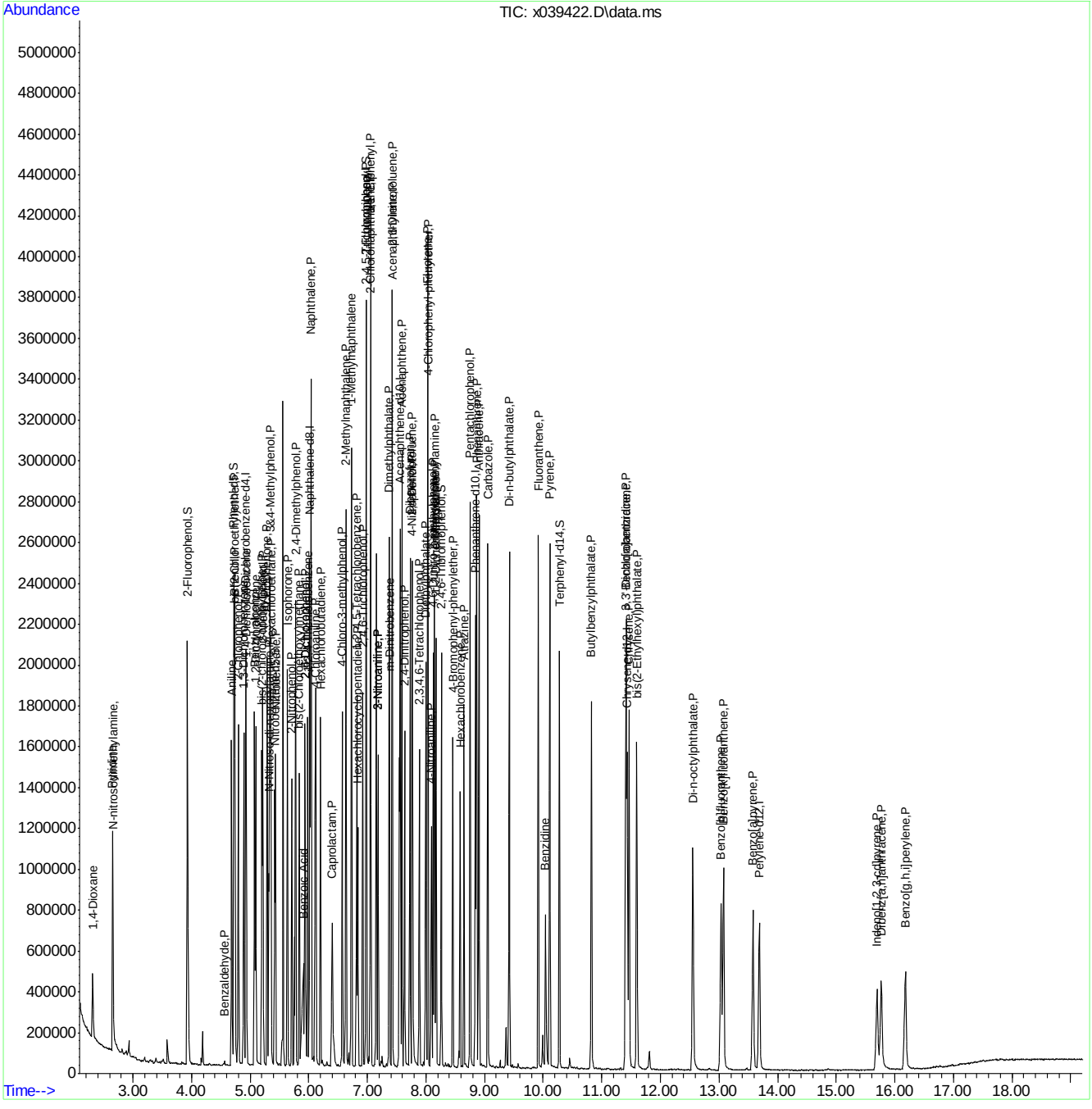
7.4.4

7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\sx1832\
Data File : x039422.D
Acq On : 7 Apr 2015 3:04 pm
Operator : marthav
Sample : op55584-msd
Misc : op55584,sx1832,30.4,,,1,1,soil
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Apr 09 09:59:17 2015
Quant Method : C:\msdchem\1\METHODS\8270d_03302.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Tue Mar 31 09:29:41 2015
Response via : Initial Calibration



ACCUTEST LABORATORIES FA23258

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\st811\
Data File : T017746.D
Acq On : 7 Apr 2015 9:32 pm
Operator : mayrag
Sample : op55593-ms
Misc : op55593,st811,125,,,1,1,water
ALS Vial : 32 Sample Multiplier: 1

Quant Time: Apr 08 09:09:45 2015
Quant Method : C:\msdchem\1\METHODS\SIM_LV.M
Quant Title : PAH's by 8270 SIM
QLast Update : Wed Apr 08 09:06:52 2015
Response via : Initial Calibration

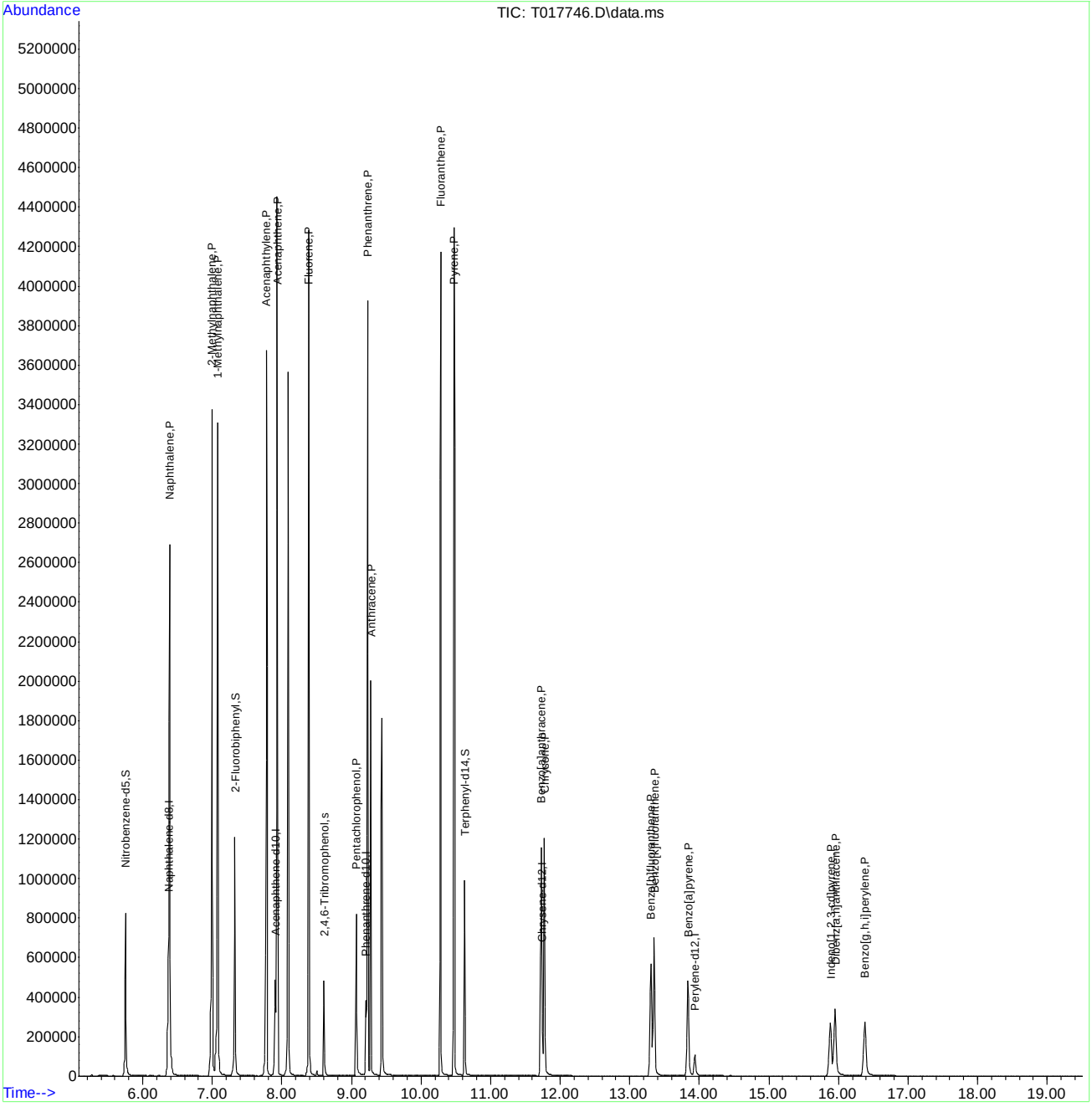
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) Naphthalene-d8	6.369	136	276052	500.00 ppb	0.00
6) Acenaphthene-d10	7.904	164	142309	500.00 ppb	0.00
11) Phenanthrene-d10	9.209	188	239208	500.00 ppb	0.00
17) Chrysene-d12	11.742	240	167136	500.00 ppb	0.00
22) Perylene-d12	13.934	264	130480	500.00 ppb	0.00
System Monitoring Compounds					
2) Nitrobenzene-d5	5.753	82	450911	1768.39 ppb	0.00
Spiked Amount 2000.000	Range 38 - 126		Recovery = 88.42%		
7) 2-Fluorobiphenyl	7.325	172	814874	1756.96 ppb	0.00
Spiked Amount 2000.000	Range 41 - 109		Recovery = 87.85%		
12) 2,4,6-Tribromophenol	8.606	330	165904	2874.82 ppb	0.00
Spiked Amount 4000.000	Range 33 - 118		Recovery = 71.87%		
19) Terphenyl-d14	10.625	244	634864	1973.26 ppb	0.00
Spiked Amount 2000.000	Range 46 - 135		Recovery = 98.66%		
Target Compounds					Qvalue
3) Naphthalene	6.387	128	2329475	3410.01 ppb	100
4) 2-Methylnaphthalene	6.996	142	1455586	3488.21 ppb	98
5) 1-Methylnaphthalene	7.080	142	1438311	3649.72 ppb	97
8) Acenaphthylene	7.781	152	2324696	3536.26 ppb	99
9) Acenaphthene	7.933	153	1441717	3589.57 ppb	95
10) Fluorene	8.391	166	1669143	3898.22 ppb	100
13) Pentachlorophenol	9.071	266	291306	14340.85 ppb	99
14) Phenanthrene	9.233	178	2337879	3712.40 ppb	98
15) Anthracene	9.277	178	1163451	1738.24 ppb	98
16) Fluoranthene	10.280	202	2385873	3863.74 ppb	96
18) Pyrene	10.477	202	2374694	3889.38 ppb	95
20) Benzo[a]anthracene	11.730	228	925591	2081.61 ppb	100
21) Chrysene	11.775	228	911989	2111.29 ppb	100
23) Benzo[b]fluoranthene	13.305	252	730196	1956.64 ppb	99
24) Benzo[k]fluoranthene	13.350	252	752760	1881.83 ppb	99
25) Benzo[a]pyrene	13.839	252	629038	1819.82 ppb	99
26) Indeno[1,2,3-cd]pyrene	15.883	276	382003	1472.11 ppb	96
27) Dibenz[a,h]anthracene	15.951	278	376265	1393.32 ppb	97
28) Benzo[g,h,i]perylene	16.382	276	431422	1477.05 ppb	97

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\st811\
Data File : T017746.D
Acq On : 7 Apr 2015 9:32 pm
Operator : mayrag
Sample : op55593-ms
Misc : op55593,st811,125,,,1,1,water
ALS Vial : 32 Sample Multiplier: 1

Quant Time: Apr 08 09:09:45 2015
Quant Method : C:\msdchem\1\METHODS\SIM_LV.M
Quant Title : PAH's by 8270 SIM
QLast Update : Wed Apr 08 09:06:52 2015
Response via : Initial Calibration



ACCUTEST LABORATORIES FA23258

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\st811\
Data File : T017747.D
Acq On : 7 Apr 2015 10:02 pm
Operator : mayrag
Sample : op55593-msd
Misc : op55593,st811,125,,,1,1,water
ALS Vial : 33 Sample Multiplier: 1

Quant Time: Apr 08 09:09:47 2015
Quant Method : C:\msdchem\1\METHODS\SIM_LV.M
Quant Title : PAH's by 8270 SIM
QLast Update : Wed Apr 08 09:06:52 2015
Response via : Initial Calibration

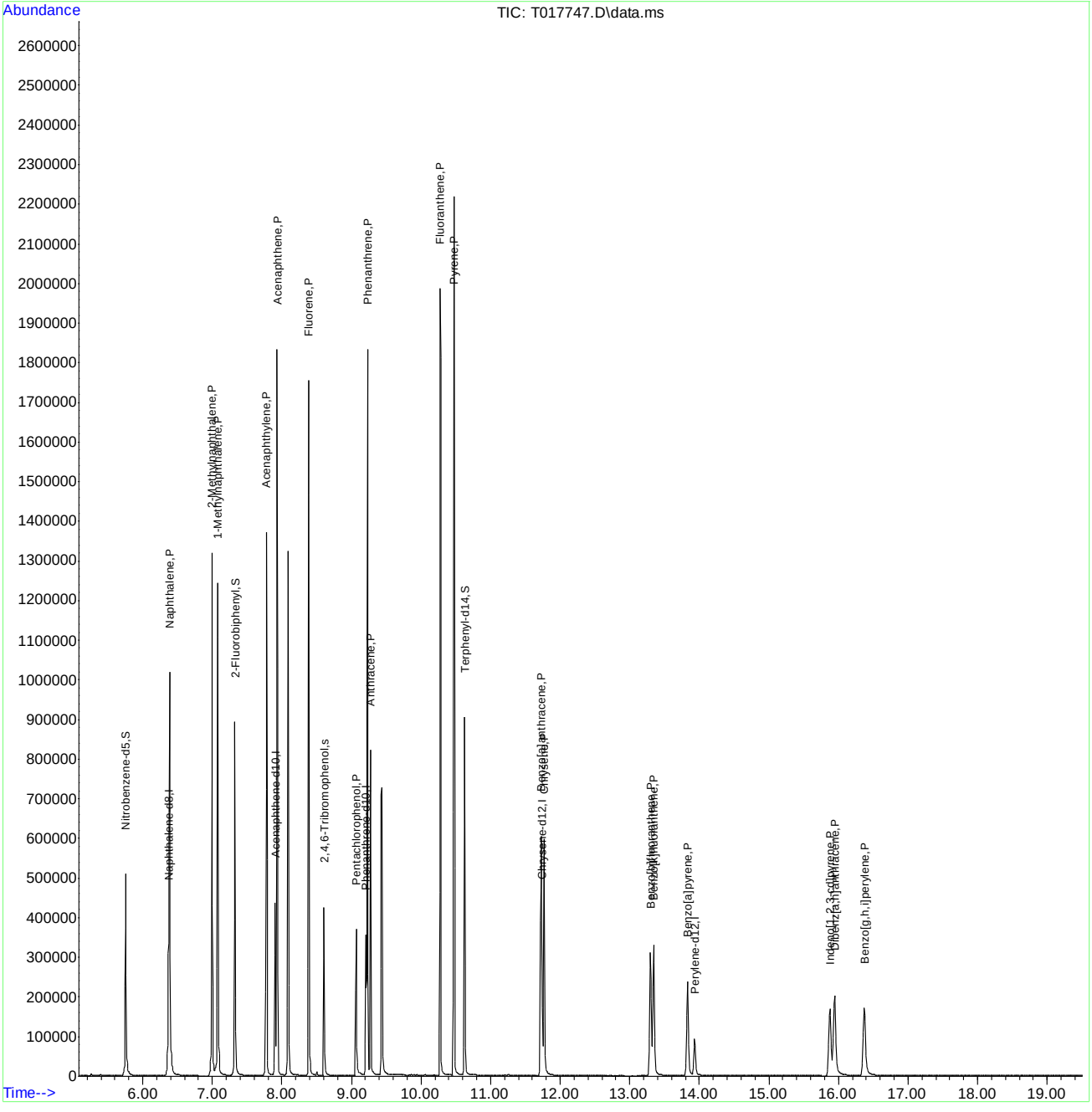
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Naphthalene-d8	6.369	136	260662	500.00	ppb	0.00
6) Acenaphthene-d10	7.904	164	137059	500.00	ppb	0.00
11) Phenanthrene-d10	9.208	188	220615	500.00	ppb	0.00
17) Chrysene-d12	11.737	240	162679	500.00	ppb	0.00
22) Perylene-d12	13.931	264	114132	500.00	ppb	0.00
System Monitoring Compounds						
2) Nitrobenzene-d5	5.753	82	282727	1174.27	ppb	0.00
Spiked Amount 2000.000	Range 38 - 126		Recovery = 58.71%			
7) 2-Fluorobiphenyl	7.324	172	546598	1223.67	ppb	0.00
Spiked Amount 2000.000	Range 41 - 109		Recovery = 61.18%			
12) 2,4,6-Tribromophenol	8.606	330	140167	2632.25	ppb	0.00
Spiked Amount 4000.000	Range 33 - 118		Recovery = 65.81%			
19) Terphenyl-d14	10.625	244	574930	1835.93	ppb	0.00
Spiked Amount 2000.000	Range 46 - 135		Recovery = 91.80%			
Target Compounds						Qvalue
3) Naphthalene	6.387	128	792248	1228.21	ppb	99
4) 2-Methylnaphthalene	6.996	142	496199	1259.31	ppb	98
5) 1-Methylnaphthalene	7.080	142	498179	1338.77	ppb	97
8) Acenaphthylene	7.777	152	841145	1328.54	ppb	97
9) Acenaphthene	7.933	153	544351	1407.23	ppb	96
10) Fluorene	8.388	166	647842	1570.97	ppb	99
13) Pentachlorophenol	9.066	266	119517	7259.10	ppb	98
14) Phenanthrene	9.228	178	999032	1720.09	ppb	98
15) Anthracene	9.272	178	492598	797.99	ppb	99
16) Fluoranthene	10.276	202	1106350	1942.64	ppb	96
18) Pyrene	10.473	202	1122578	1888.98	ppb	96
20) Benzo[a]anthracene	11.727	228	428699	990.54	ppb	99
21) Chrysene	11.770	228	462543	1100.14	ppb	99
23) Benzo[b]fluoranthene	13.297	252	372345	1140.66	ppb	99
24) Benzo[k]fluoranthene	13.342	252	392982	1123.14	ppb	99
25) Benzo[a]pyrene	13.831	252	305416	1010.14	ppb	100
26) Indeno[1,2,3-cd]pyrene	15.878	276	232295	1023.41	ppb	96
27) Dibenz[a,h]anthracene	15.943	278	236758	1002.30	ppb	96
28) Benzo[g,h,i]perylene	16.372	276	271847	1064.03	ppb	97

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\st811\
Data File : T017747.D
Acq On : 7 Apr 2015 10:02 pm
Operator : mayrag
Sample : op55593-msd
Misc : op55593,st811,125,,,1,1,water
ALS Vial : 33 Sample Multiplier: 1

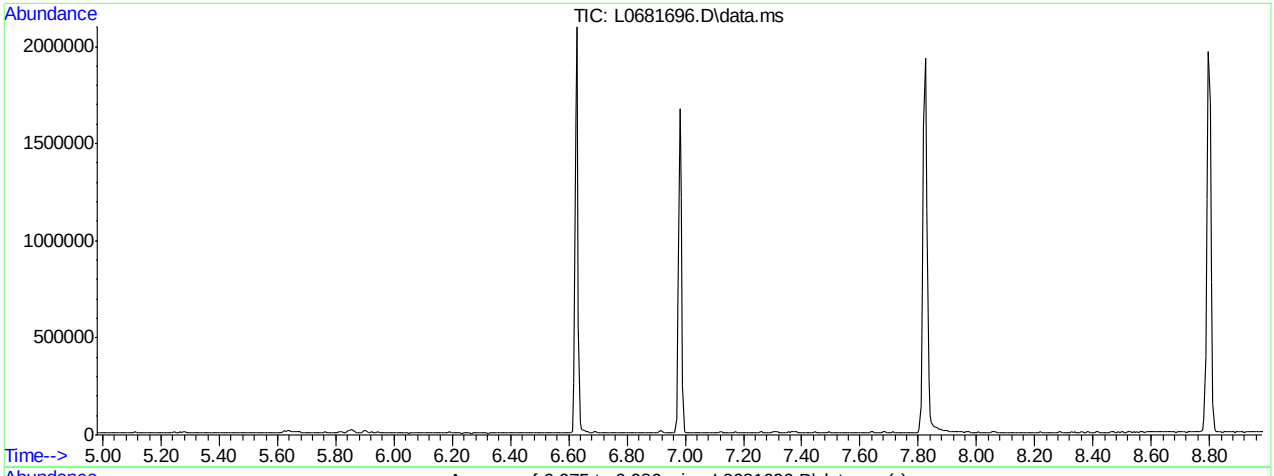
Quant Time: Apr 08 09:09:47 2015
Quant Method : C:\msdchem\1\METHODS\SIM_LV.M
Quant Title : PAH's by 8270 SIM
QLast Update : Wed Apr 08 09:06:52 2015
Response via : Initial Calibration

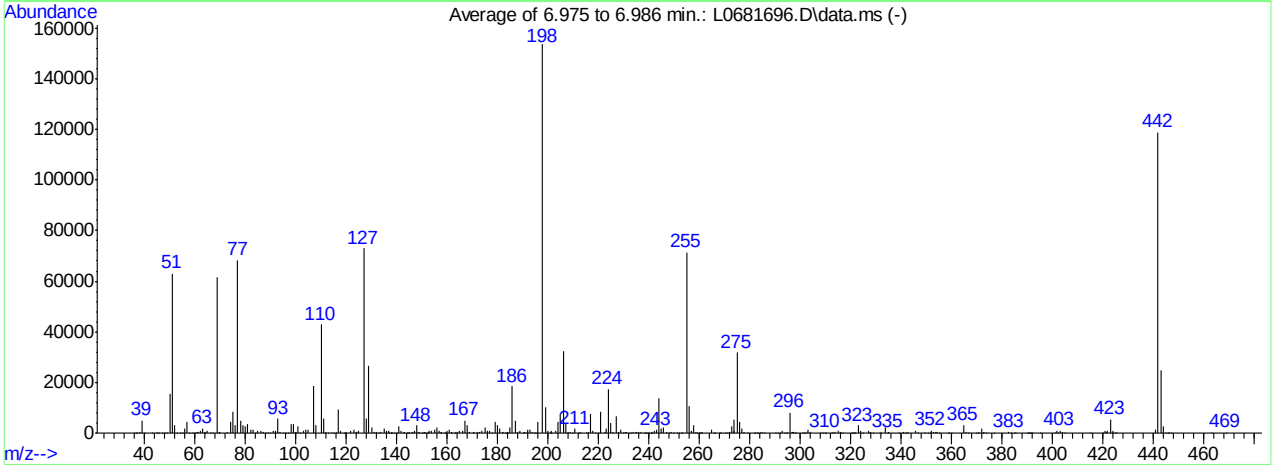


SW-846 Method 8270

Data File : C:\msdchem\1\DATA\sl3629\L0681696.D Vial: 1
Acq On : 2 Apr 2015 10:41 am Operator: nareshj
Sample : dftpp Inst : MSBNA02
Misc : op55410,sl3629,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : C:\msdchem\1\METHODS\dftpp.m (RTE Integrator)
Title : Tune Evaluation





AutoFind: Scans 802, 803, 804; Background Corrected with Scan 798

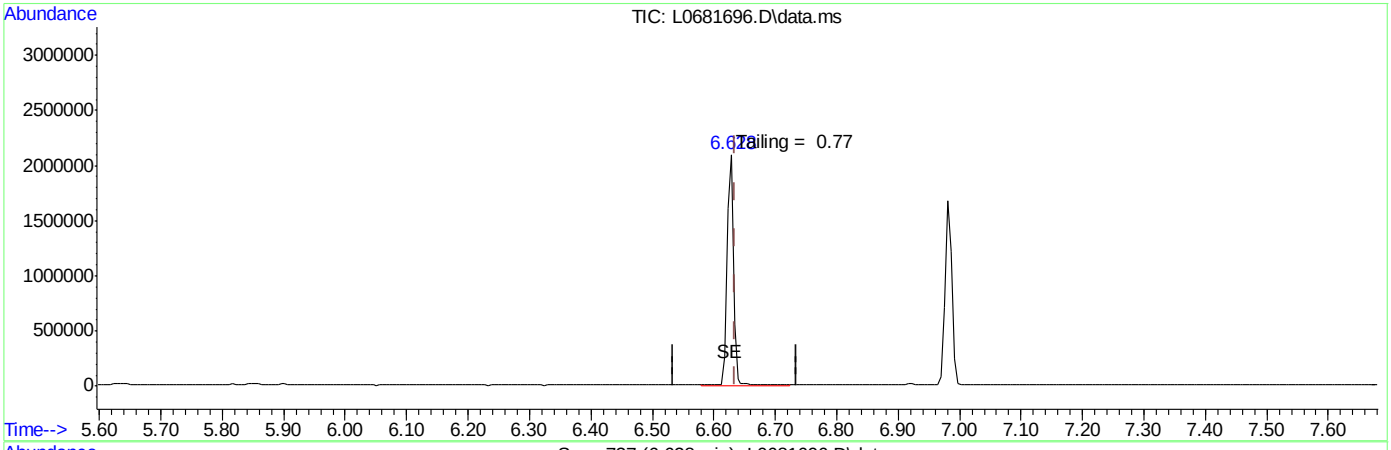
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	41.1	63053	PASS
68	69	0.00	2	0.0	0	PASS
69	198	0.00	100	40.0	61453	PASS
70	69	0.00	2	0.6	339	PASS
127	198	40	60	47.5	72960	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	153541	PASS
199	198	5	9	6.8	10407	PASS
275	198	10	30	20.7	31816	PASS
365	198	1	100	2.1	3298	PASS
441	443	0.01	100	6.0	1503	PASS
442	198	40	100	77.4	118800	PASS
443	442	17	23	21.0	24892	PASS

L0681696.D dftpp.m Fri Apr 03 15:07:46 2015

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\sl3629\
Data File : L0681696.D
Acq On : 2 Apr 2015 10:41 am
Operator : nareshj
Sample : dftpp
Misc : op55410,sl3629,1000,,,1,1,water
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Apr 03 15:08:02 2015
Quant Method : C:\msdchem\1\METHODS\dftpp.m
Quant Title : Tune Evaluation
QLast Update : Tue Mar 31 15:18:45 2015
Response via : Initial Calibration



TIC: L0681696.D\data.ms

(1) Pentachlorophenol

6.628min (-0.007) 61.82

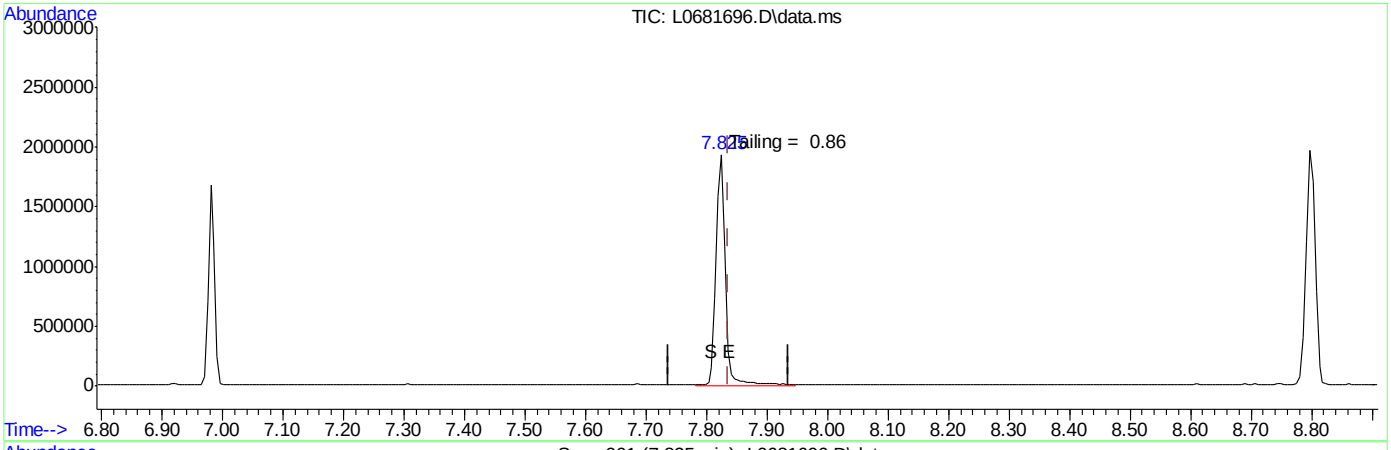
response 1478772

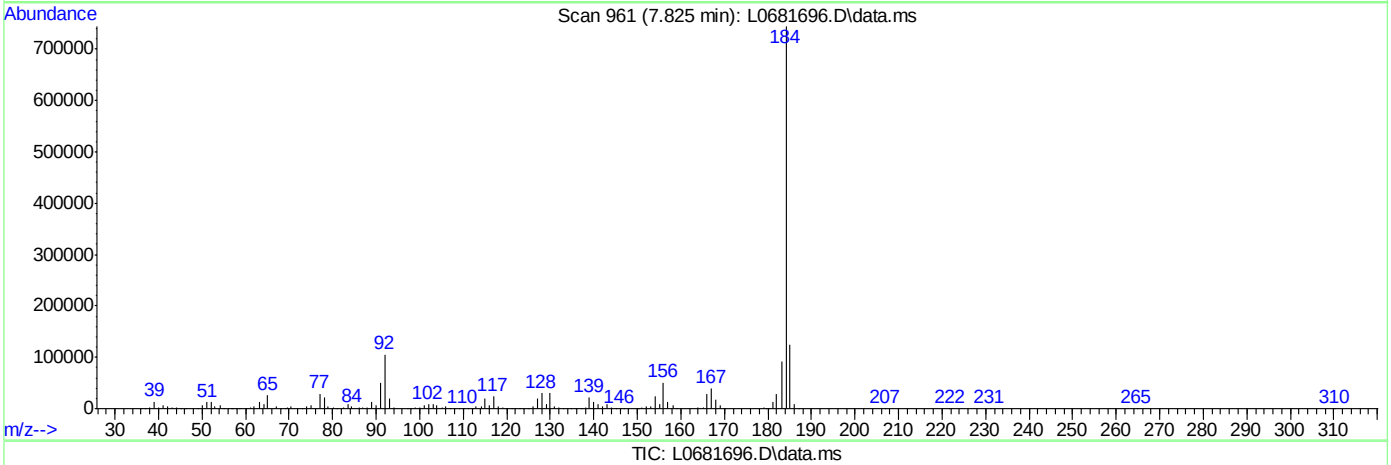
Signal	Exp%	Act%
TIC	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\sl3629\
Data File : L0681696.D
Acq On : 2 Apr 2015 10:41 am
Operator : nareshj
Sample : dftpp
Misc : op55410,sl3629,1000,,,1,1,water
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Apr 03 15:08:02 2015
Quant Method : C:\msdchem\1\METHODS\dftpp.m
Quant Title : Tune Evaluation
QLast Update : Tue Mar 31 15:18:45 2015
Response via : Initial Calibration





TIC: L0681696.D\data.ms

(3) Benzidine

7.825min (-0.013) 46.64

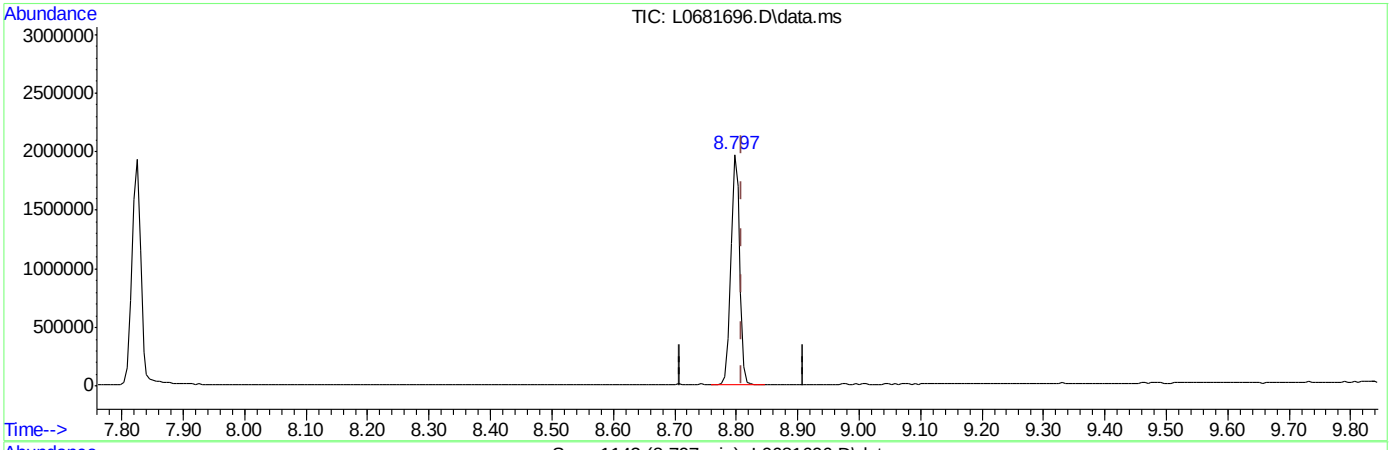
response 1978472

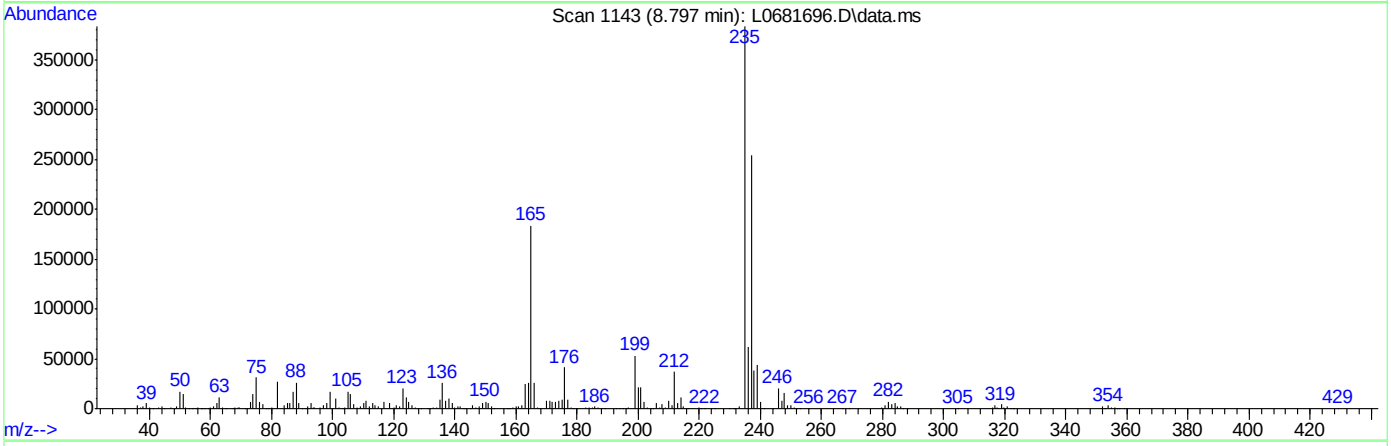
Signal	Exp%	Act%
TIC	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\sl3629\
Data File : L0681696.D
Acq On : 2 Apr 2015 10:41 am
Operator : nareshj
Sample : dftpp
Misc : op55410,sl3629,1000,,,1,1,water
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Apr 03 15:08:02 2015
Quant Method : C:\msdchem\1\METHODS\dftpp.m
Quant Title : Tune Evaluation
QLast Update : Tue Mar 31 15:18:45 2015
Response via : Initial Calibration





TIC: L0681696.D\data.ms

(4) DDT

8.797min (-0.013) 57.59

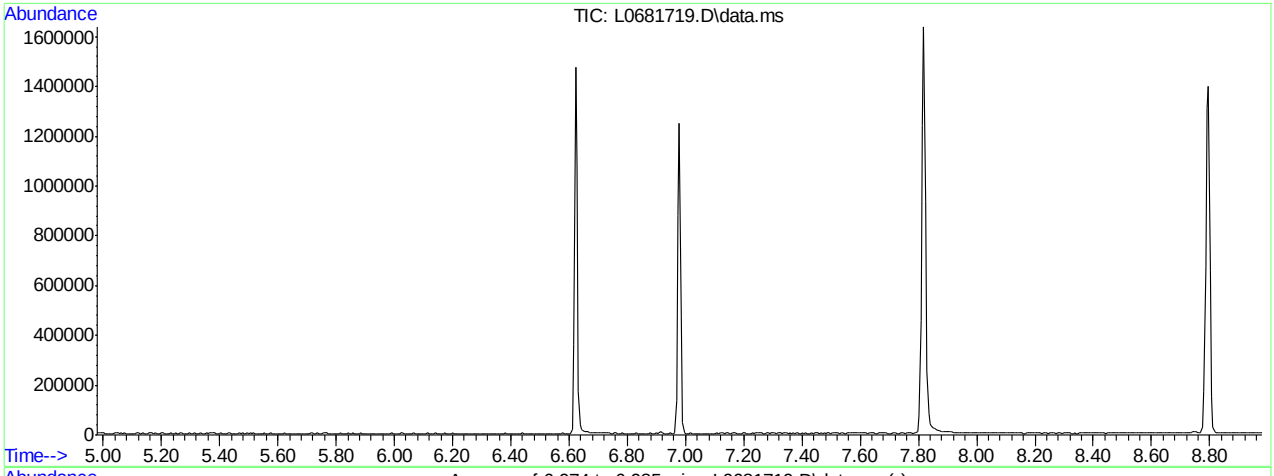
response 2010255

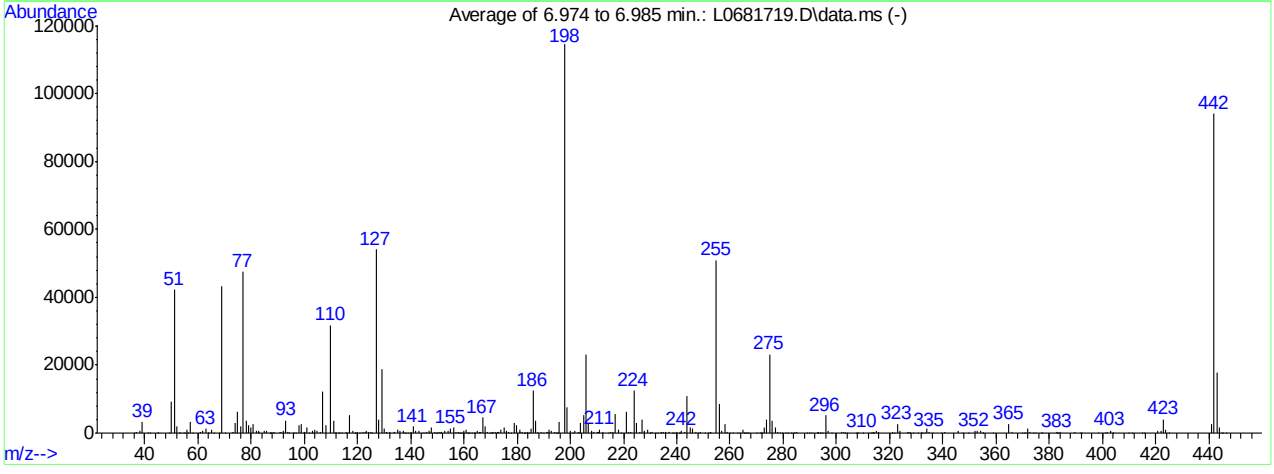
Signal	Exp%	Act%
TIC	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

SW-846 Method 8270

Data File : C:\msdchem\1\DATA\sl3630\L0681719.D Vial: 1
Acq On : 3 Apr 2015 1:25 pm Operator: marthav
Sample : dftpp Inst : MSBNA02
Misc : op55410,sl3630,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : C:\msdchem\1\METHODS\dftpp.m (RTE Integrator)
Title : Tune Evaluation





AutoFind: Scans 802, 803, 804; Background Corrected with Scan 797

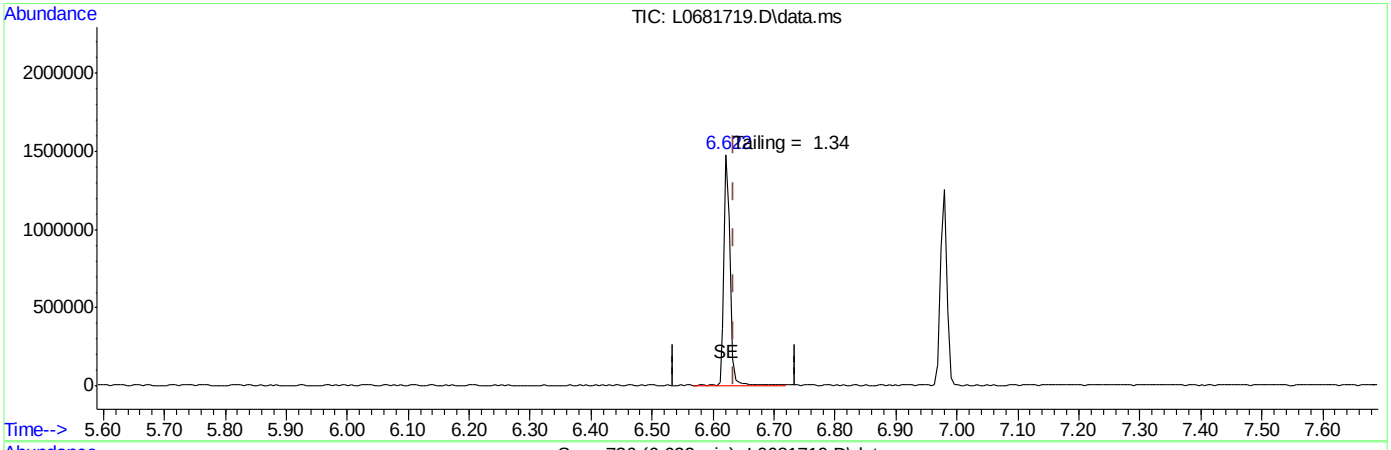
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	36.8	42122	PASS
68	69	0.00	2	0.2	70	PASS
69	198	0.00	100	37.9	43346	PASS
70	69	0.00	2	0.3	144	PASS
127	198	40	60	47.2	54032	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	114445	PASS
199	198	5	9	6.7	7639	PASS
275	198	10	30	20.2	23135	PASS
365	198	1	100	2.4	2783	PASS
441	443	0.01	100	15.3	2706	PASS
442	198	40	100	82.1	93944	PASS
443	442	17	23	18.8	17673	PASS

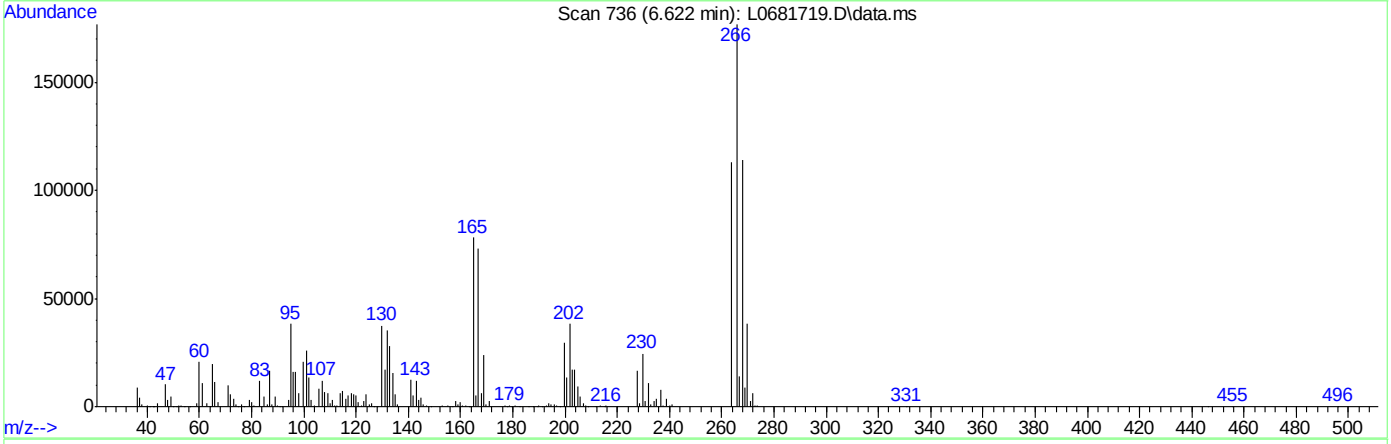
L0681719.D dftpp.m Mon Apr 06 11:44:58 2015

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\sl3630\
Data File : L0681719.D
Acq On : 3 Apr 2015 1:25 pm
Operator : marthav
Sample : dftpp
Misc : op55410,sl3630,1000,,,1,1,water
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Apr 03 13:38:26 2015
Quant Method : C:\msdchem\1\METHODS\dftpp.m
Quant Title : Tune Evaluation
QLast Update : Tue Mar 31 15:18:45 2015
Response via : Initial Calibration





TIC: L0681719.D\data.ms

(1) Pentachlorophenol

6.622min (-0.014) 42.75

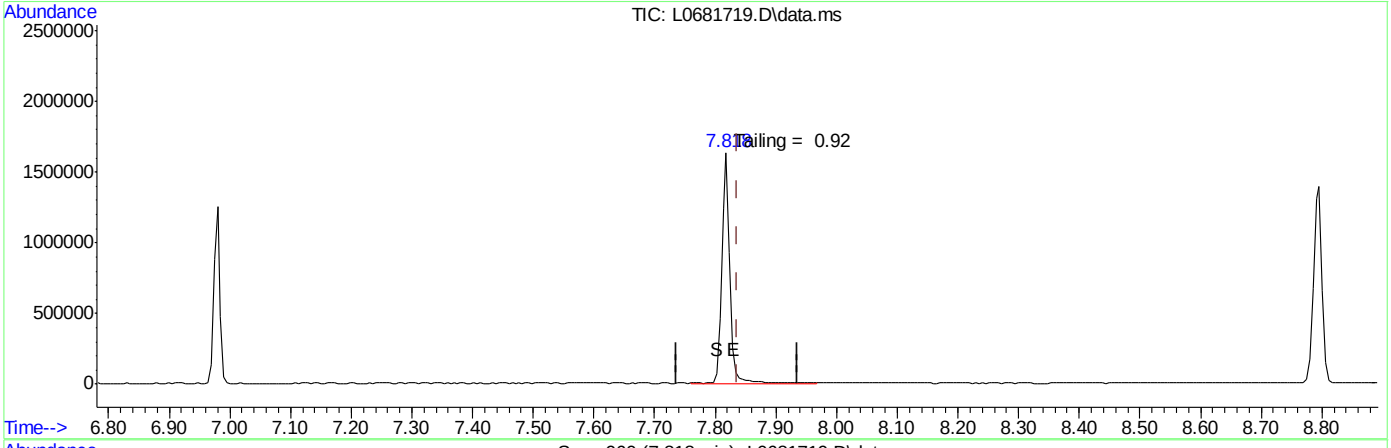
response 1022556

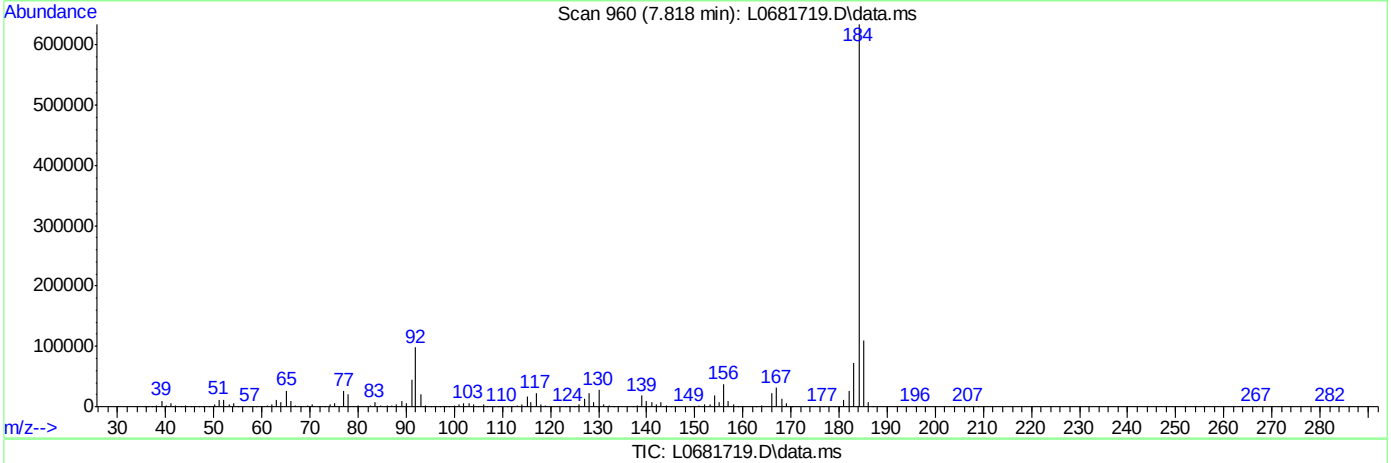
Signal	Exp%	Act%
TIC	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\sl3630\
Data File : L0681719.D
Acq On : 3 Apr 2015 1:25 pm
Operator : marthav
Sample : dftpp
Misc : op55410,sl3630,1000,,,1,1,water
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Apr 03 13:38:26 2015
Quant Method : C:\msdchem\1\METHODS\dftpp.m
Quant Title : Tune Evaluation
QLast Update : Tue Mar 31 15:18:45 2015
Response via : Initial Calibration





TIC: L0681719.D\data.ms

(3) Benzidine

7.818min (-0.019) 36.48

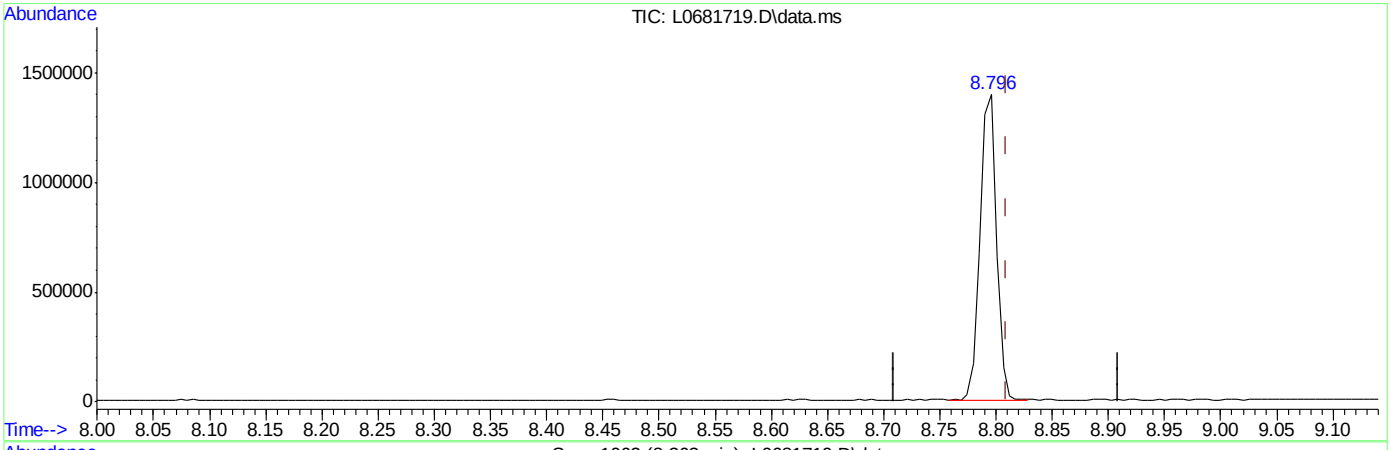
response 1547338

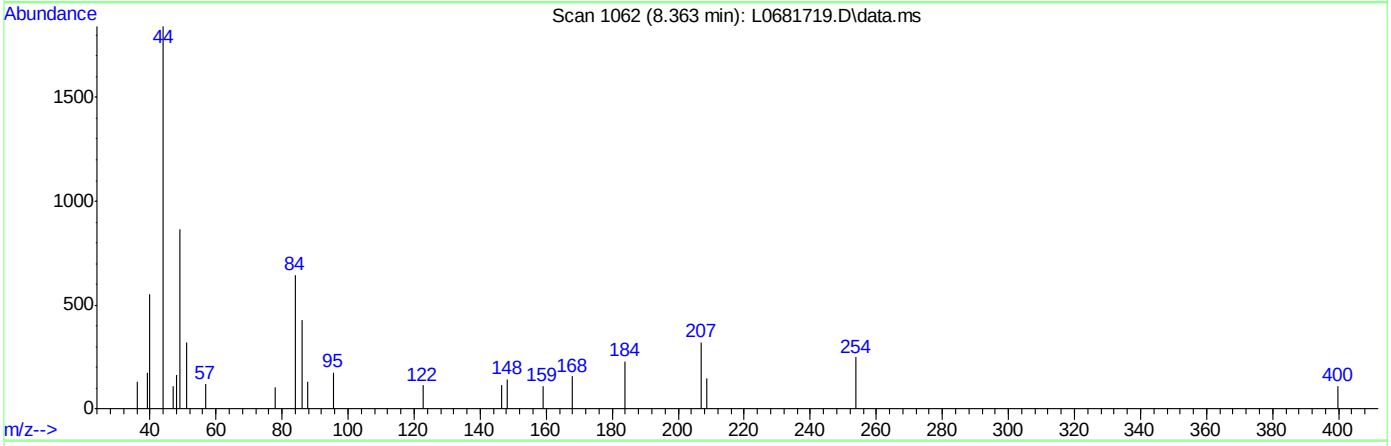
Signal	Exp%	Act%
TIC	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\DATA\sl3630\
Data File : L0681719.D
Acq On    :  3 Apr 2015   1:25 pm
Operator  : marthav
Sample    : dftpp
Misc      : op55410,sl3630,1000,,,1,1,water
ALS Vial  : 1   Sample Multiplier: 1

Quant Time: Apr 03 13:38:26 2015
Quant Method : C:\msdchem\1\METHODS\dftpp.m
Quant Title  : Tune Evaluation
QLast Update : Tue Mar 31 15:18:45 2015
Response via : Initial Calibration
```





TIC: L0681719.D\data.ms

(4) DDT

8.796min (-0.014) 40.18

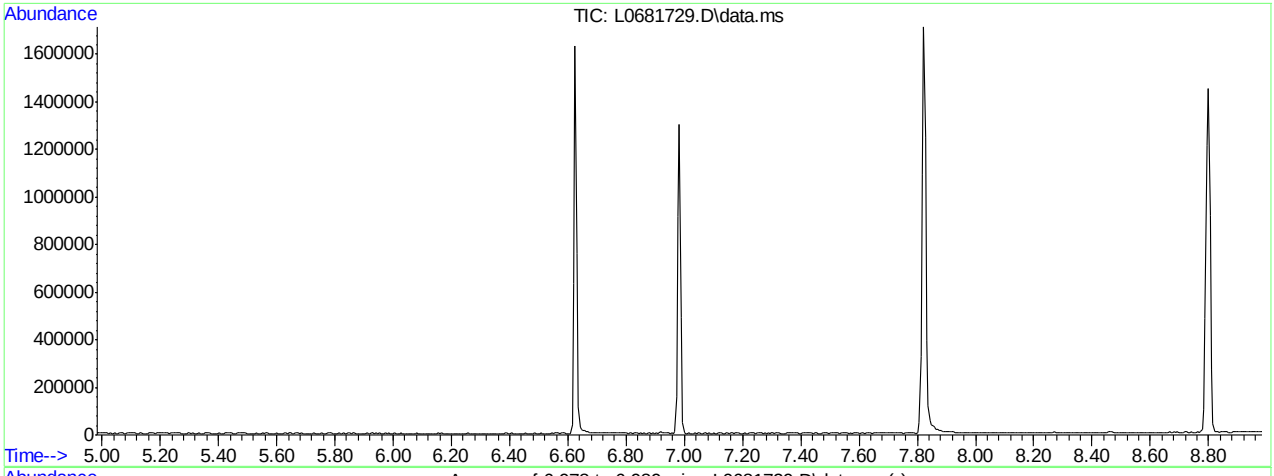
response 1402591

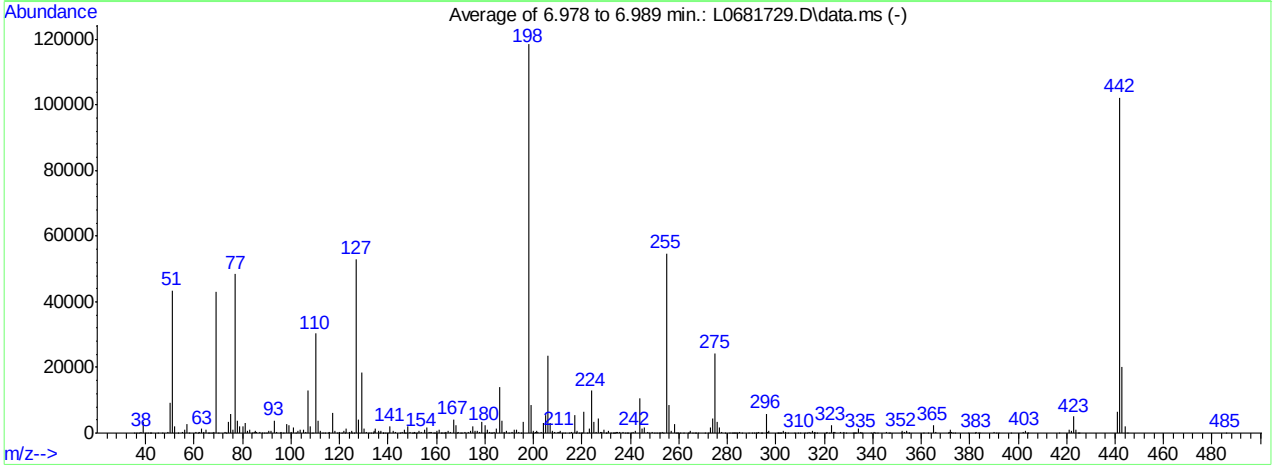
Signal	Exp%	Act%
TIC	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

SW-846 Method 8270

Data File : C:\msdchem\1\DATA\sl3631\L0681729.D Vial: 1
Acq On : 6 Apr 2015 9:43 am Operator: marthav
Sample : dftpp Inst : MSBNA02
Misc : op55582,sl3631,30.0,,,1,1,soil Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : C:\msdchem\1\METHODS\dftpp.m (RTE Integrator)
Title : Tune Evaluation





AutoFind: Scans 803, 804, 805; Background Corrected with Scan 798

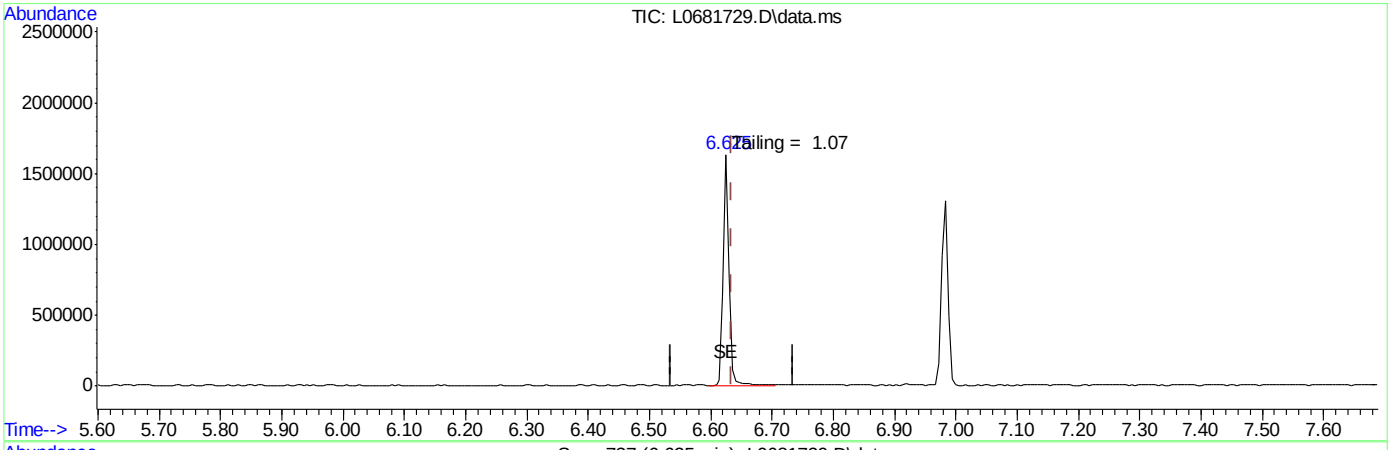
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	36.7	43506	PASS
68	69	0.00	2	0.6	277	PASS
69	198	0.00	100	36.2	42899	PASS
70	69	0.00	2	0.4	171	PASS
127	198	40	60	44.8	53058	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	118453	PASS
199	198	5	9	7.2	8574	PASS
275	198	10	30	20.6	24369	PASS
365	198	1	100	2.1	2446	PASS
441	443	0.01	100	31.9	6474	PASS
442	198	40	100	86.3	102197	PASS
443	442	17	23	19.9	20290	PASS

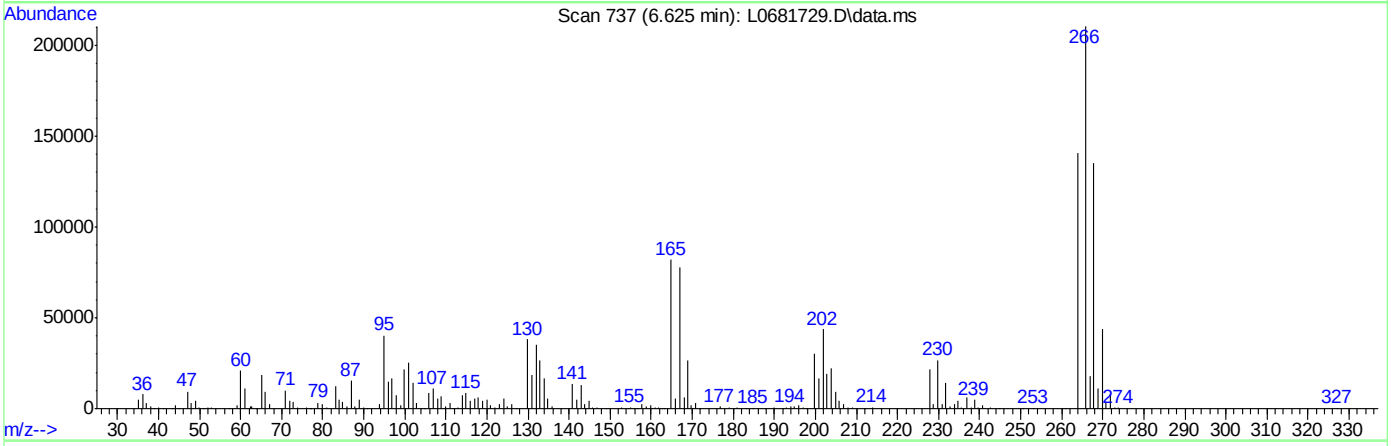
L0681729.D dftpp.m Mon Apr 06 16:12:12 2015

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\sl3631\
Data File : L0681729.D
Acq On : 6 Apr 2015 9:43 am
Operator : marthav
Sample : dftpp
Misc : op55582,sl3631,30.0,,,1,1,soil
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Apr 06 16:12:15 2015
Quant Method : C:\msdchem\1\METHODS\dftpp.m
Quant Title : Tune Evaluation
QLast Update : Tue Mar 31 15:18:45 2015
Response via : Initial Calibration





TIC: L0681729.D\data.ms

(1) Pentachlorophenol

6.625min (-0.010) 43.81

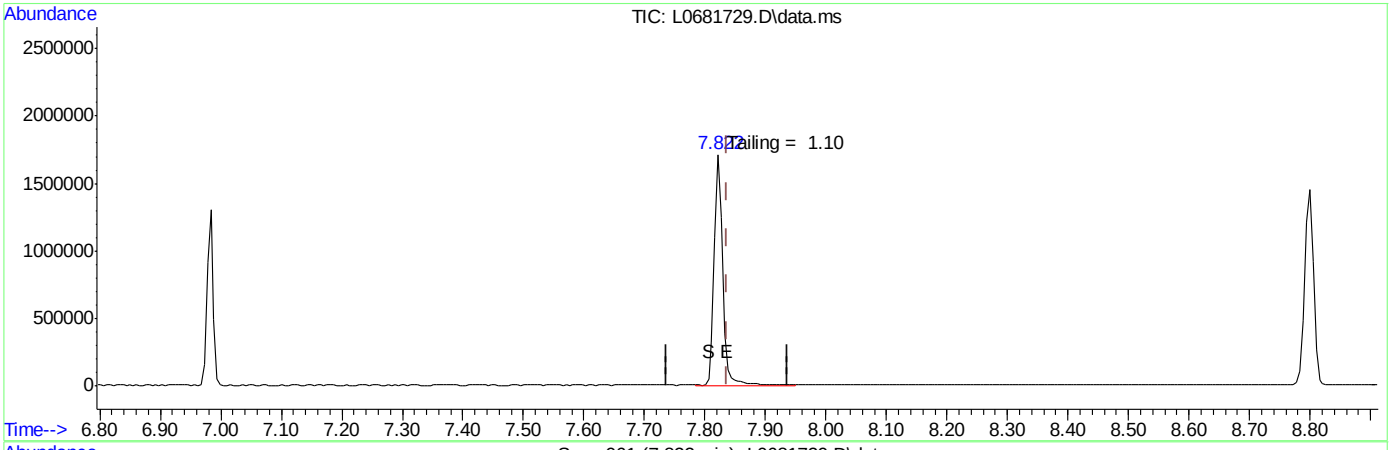
response 1048026

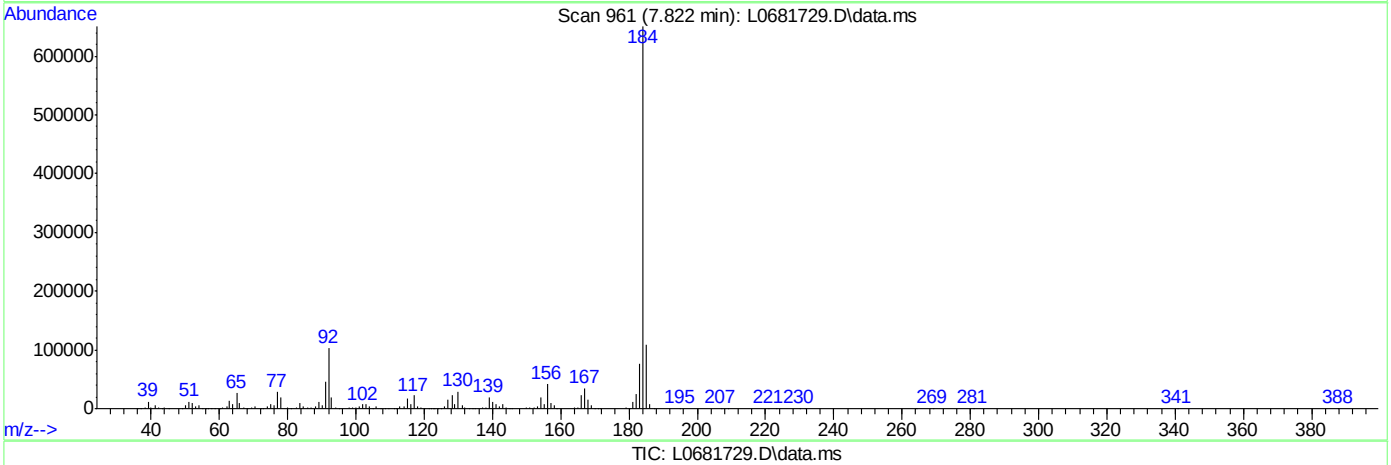
Signal	Exp%	Act%
TIC	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\sl3631\
Data File : L0681729.D
Acq On : 6 Apr 2015 9:43 am
Operator : marthav
Sample : dftpp
Misc : op55582,sl3631,30.0,,,1,1,soil
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Apr 06 16:12:15 2015
Quant Method : C:\msdchem\1\METHODS\dftpp.m
Quant Title : Tune Evaluation
QLast Update : Tue Mar 31 15:18:45 2015
Response via : Initial Calibration





TIC: L0681729.D\data.ms

(3) Benzidine

7.822min (-0.016) 39.11

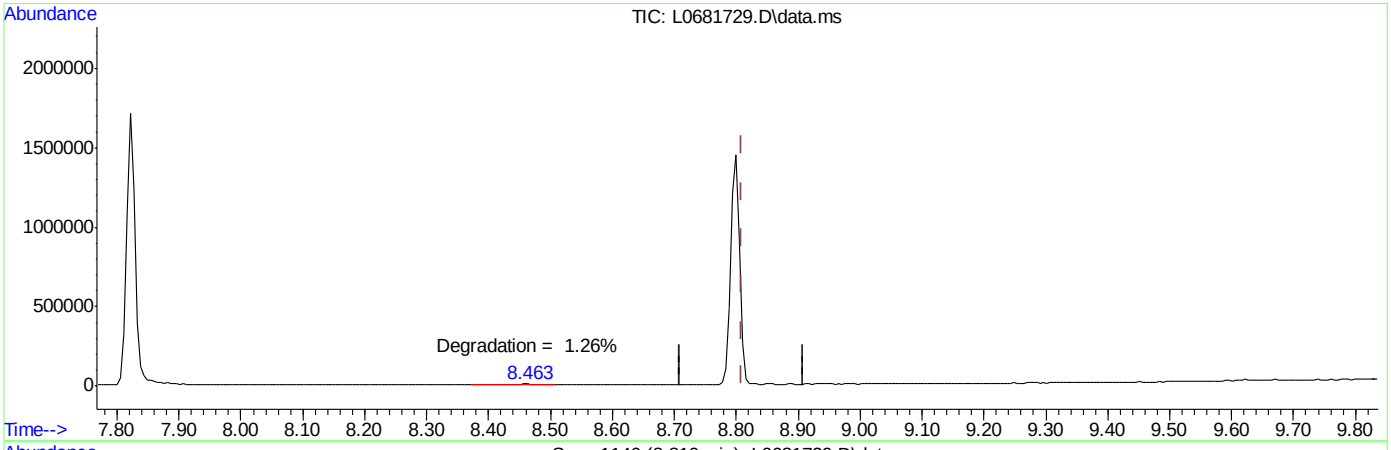
response 1658992

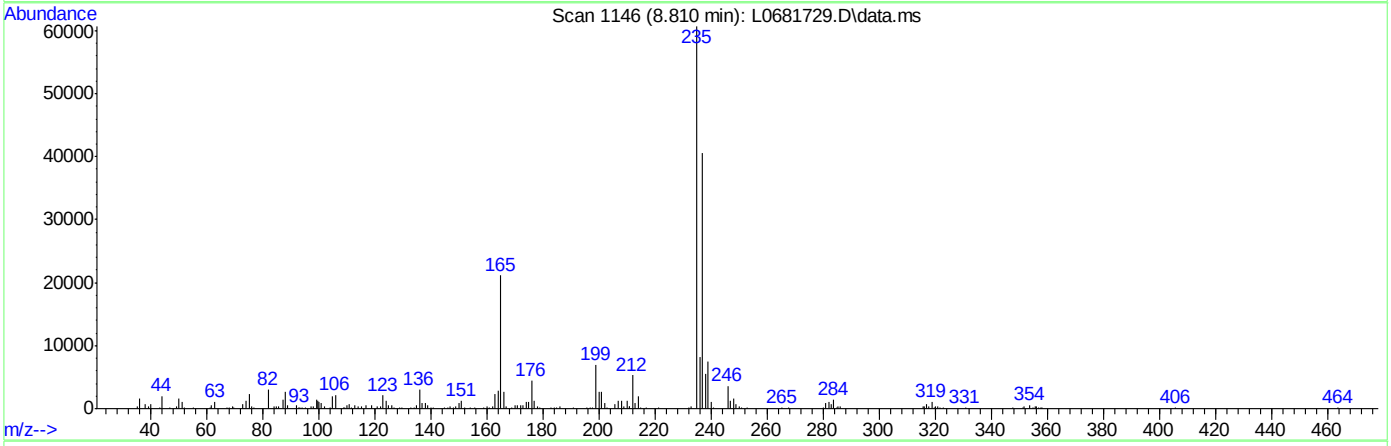
Signal	Exp%	Act%
TIC	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\sl3631\
Data File : L0681729.D
Acq On : 6 Apr 2015 9:43 am
Operator : marthav
Sample : dftpp
Misc : op55582,sl3631,30.0,,,1,1,soil
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Apr 06 16:12:15 2015
Quant Method : C:\msdchem\1\METHODS\dftpp.m
Quant Title : Tune Evaluation
QLast Update : Tue Mar 31 15:18:45 2015
Response via : Initial Calibration





TIC: L0681729.D\data.ms

(4) DDT

8.799min (-0.010) 41.02

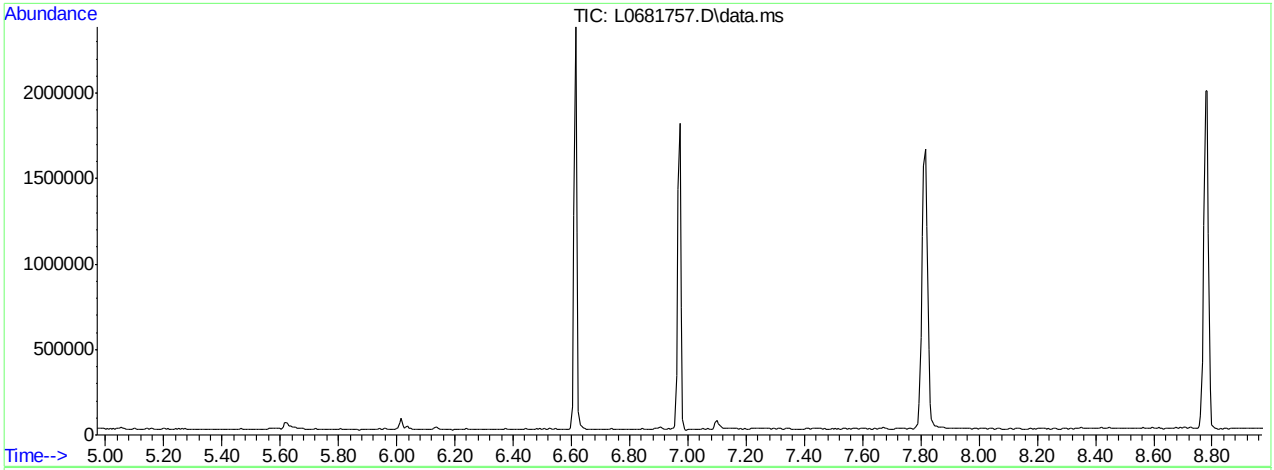
response 1432068

Signal	Exp%	Act%
TIC	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

SW-846 Method 8270

Data File : C:\msdchem\1\DATA\sl3632\L0681757.D Vial: 1
Acq On : 7 Apr 2015 11:53 am Operator: marthav
Sample : dftpp Inst : MSBNA02
Misc : op55582,sl3632,30.0,,,1,1,soil Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : C:\msdchem\1\METHODS\dftpp.m (RTE Integrator)
Title : Tune Evaluation



AutoFind: Scans 801, 802, 803; Background Corrected with Scan 796

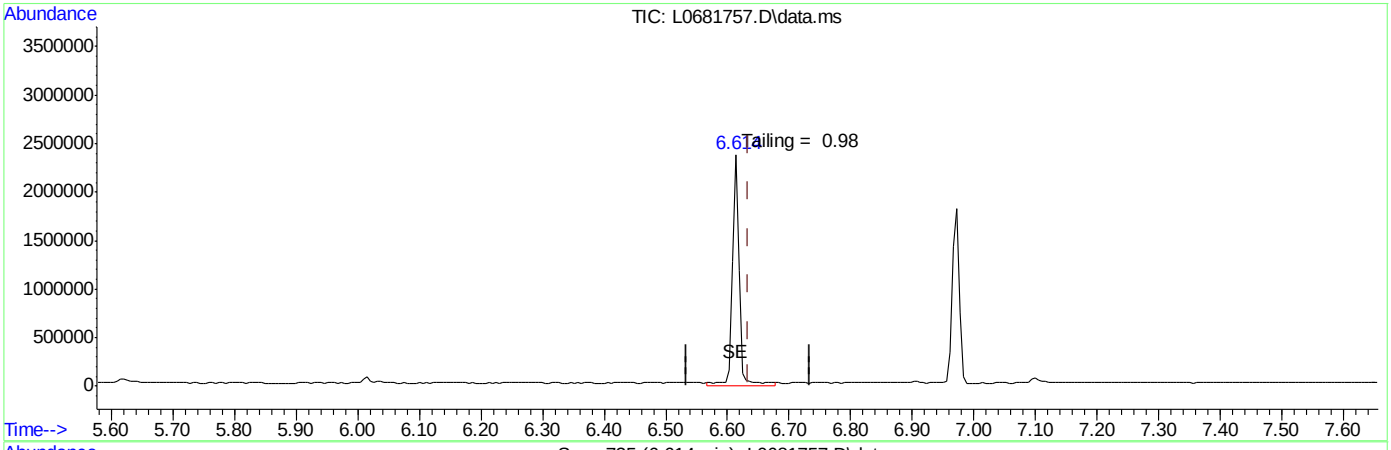
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	37.3	63624	PASS
68	69	0.00	2	0.0	0	PASS
69	198	0.00	100	36.7	62643	PASS
70	69	0.00	2	0.3	179	PASS
127	198	40	60	46.7	79613	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	170653	PASS
199	198	5	9	6.7	11516	PASS
275	198	10	30	20.5	35056	PASS
365	198	1	100	2.5	4211	PASS
441	443	0.01	100	18.0	5443	PASS
442	198	40	100	86.8	148104	PASS
443	442	17	23	20.5	30306	PASS

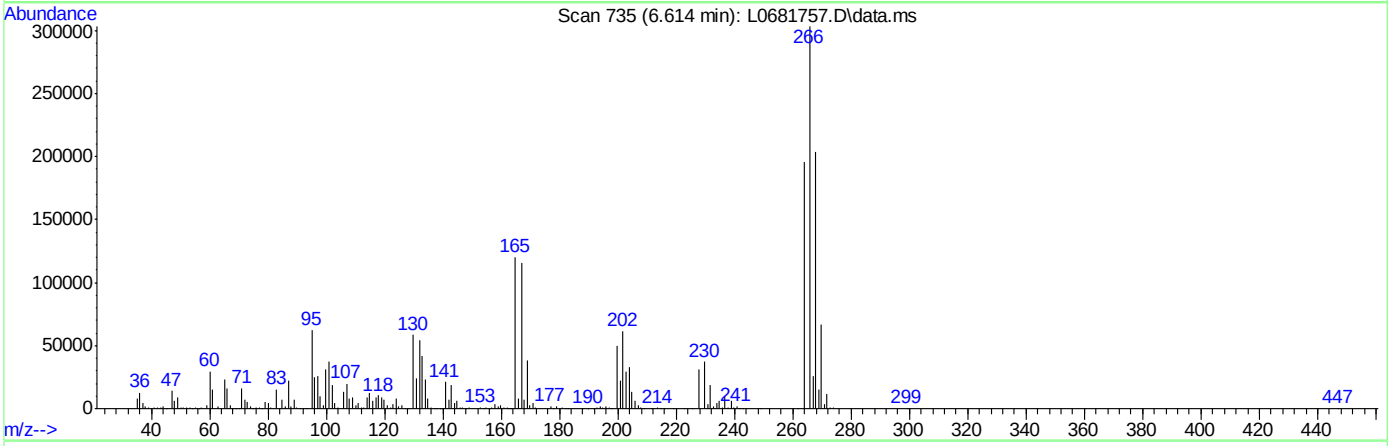
L0681757.D dftpp.m Wed Apr 08 09:30:50 2015

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\sl3632\
Data File : L0681757.D
Acq On : 7 Apr 2015 11:53 am
Operator : marthav
Sample : dftpp
Misc : op55582,sl3632,30.0,,,1,1,soil
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Apr 07 12:05:22 2015
Quant Method : C:\msdchem\1\METHODS\dftpp.m
Quant Title : Tune Evaluation
QLast Update : Tue Mar 31 15:18:45 2015
Response via : Initial Calibration





TIC: L0681757.D\data.ms

(1) Pentachlorophenol

6.614min (-0.022) 67.99

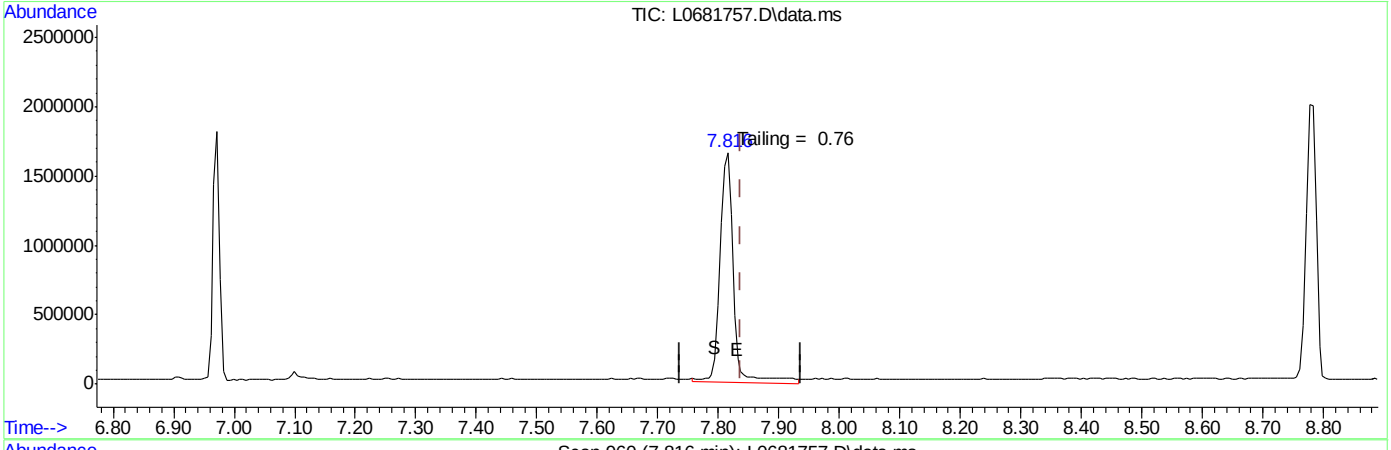
response 1626356

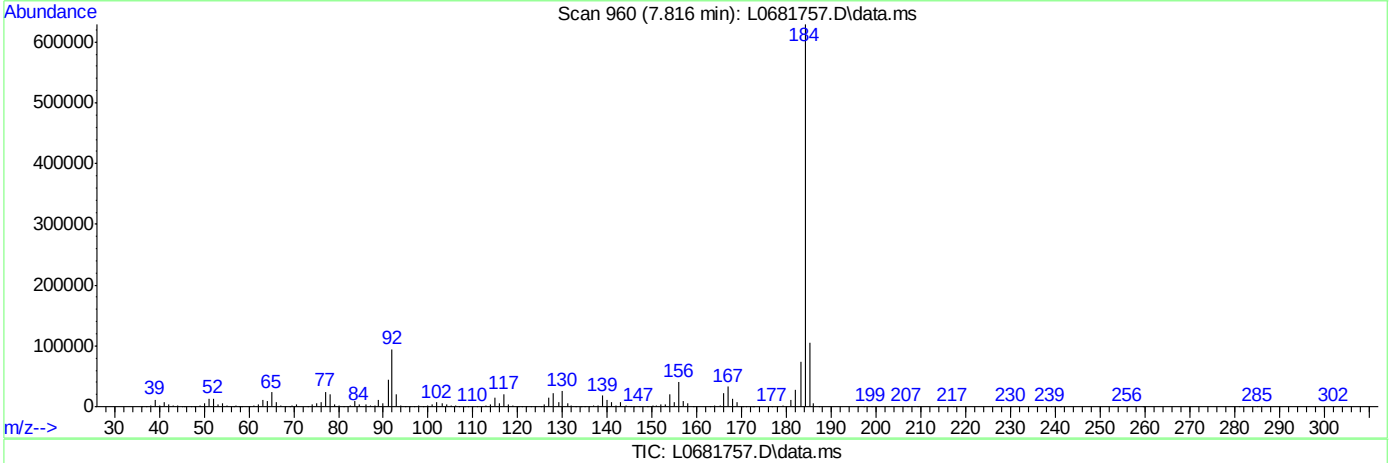
Signal	Exp%	Act%
TIC	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\sl3632\
Data File : L0681757.D
Acq On : 7 Apr 2015 11:53 am
Operator : marthav
Sample : dftpp
Misc : op55582,sl3632,30.0,,,1,1,soil
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Apr 07 12:05:22 2015
Quant Method : C:\msdchem\1\METHODS\dftpp.m
Quant Title : Tune Evaluation
QLast Update : Tue Mar 31 15:18:45 2015
Response via : Initial Calibration





TIC: L0681757.D\data.ms

(3) Benzidine

7.816min (-0.022) 52.90

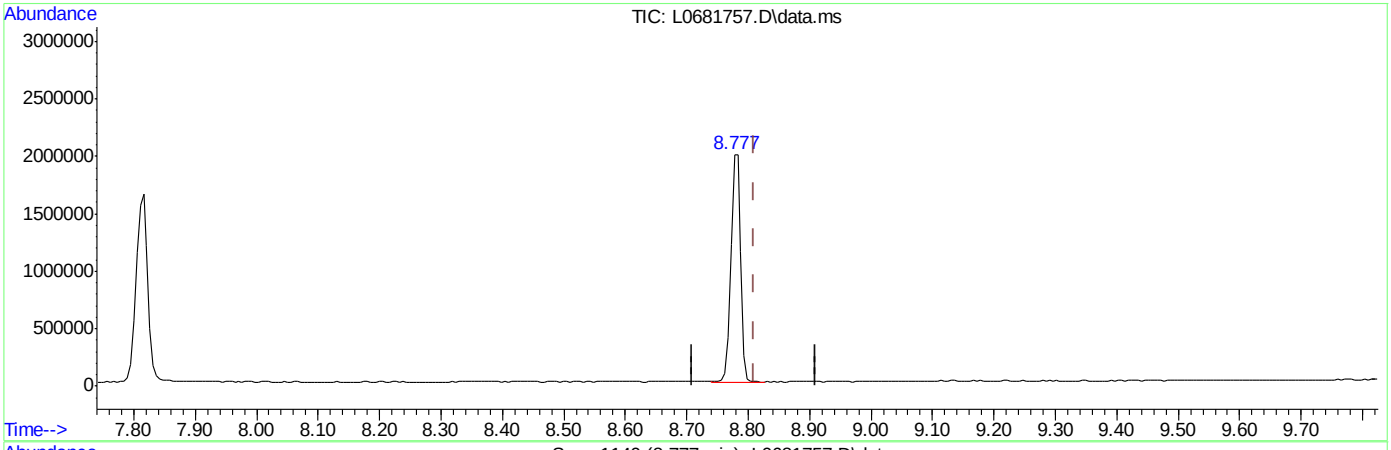
response 2243931

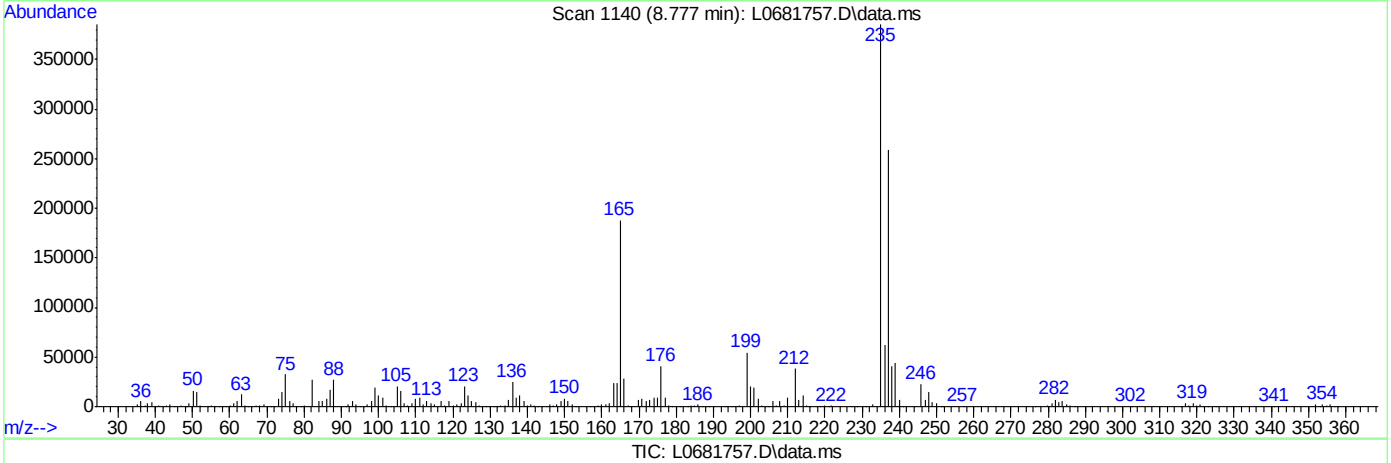
Signal	Exp%	Act%
TIC	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\DATA\sl3632\
Data File : L0681757.D
Acq On    :  7 Apr 2015  11:53 am
Operator  : marthav
Sample    : dftpp
Misc      : op55582,sl3632,30.0,,,1,1,soil
ALS Vial  : 1   Sample Multiplier: 1

Quant Time: Apr 07 12:05:22 2015
Quant Method : C:\msdchem\1\METHODS\dftpp.m
Quant Title  : Tune Evaluation
QLast Update : Tue Mar 31 15:18:45 2015
Response via : Initial Calibration
```





TIC: L0681757.D\data.ms

(4) DDT

8.777min (-0.032) 64.71

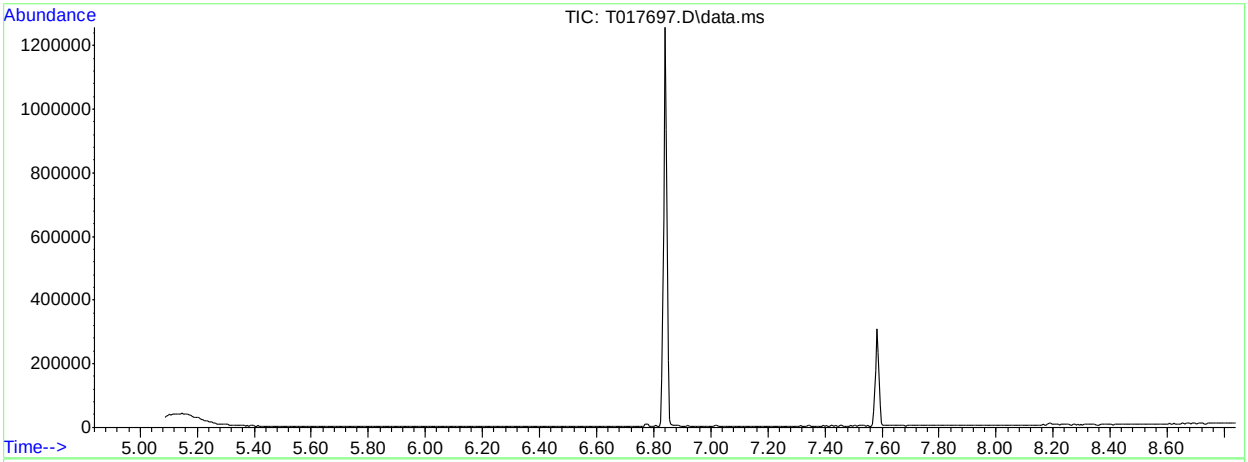
response 2258737

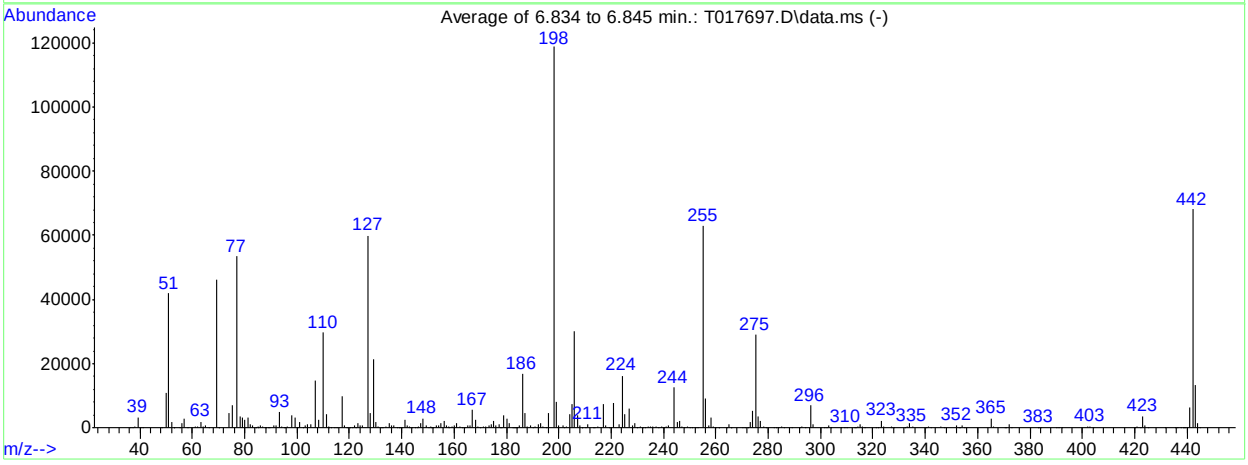
Signal	Exp%	Act%
TIC	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

SW-846 Method 8270

Data File : C:\msdchem\1\DATA\st809\T017697.D Vial: 1
Acq On : 1 Apr 2015 1:13 pm Operator: mayrag
Sample : dftpp Inst : MSBNA06
Misc : op55409,st809,250,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : C:\msdchem\1\METHODS\dftpp.m (RTE Integrator)
Title : Tune Evaluation





AutoFind: Scans 328, 329, 330; Background Corrected with Scan 324

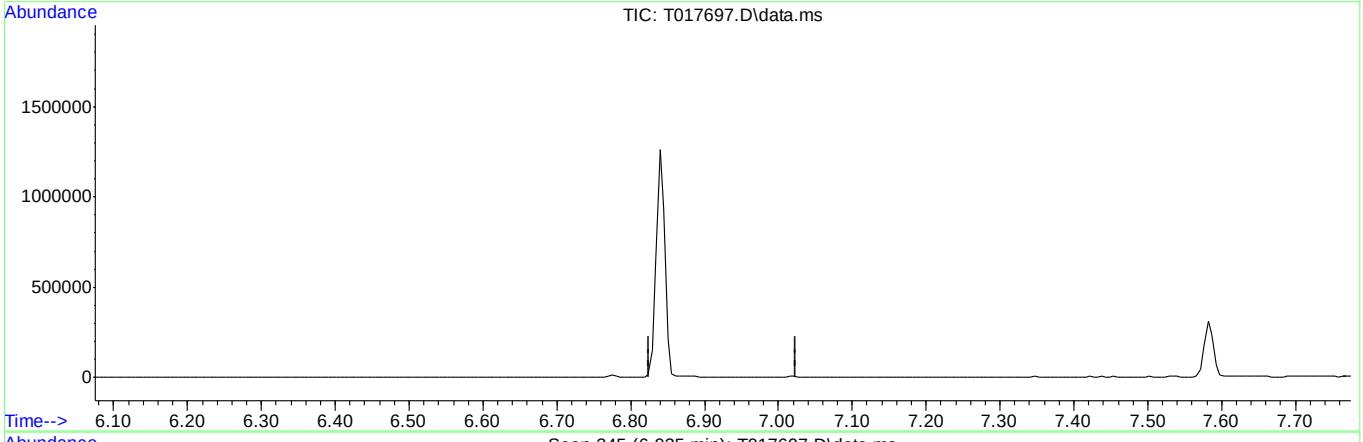
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	35.3	41981	PASS
68	69	0.00	2	0.0	0	PASS
69	198	0.00	100	39.0	46325	PASS
70	69	0.00	2	0.3	123	PASS
127	198	40	60	50.3	59784	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	118845	PASS
199	198	5	9	6.7	7986	PASS
275	198	10	30	24.5	29112	PASS
365	198	1	100	2.4	2815	PASS
441	443	0.01	100	48.7	6542	PASS
442	198	40	100	57.3	68149	PASS
443	442	17	23	19.7	13420	PASS

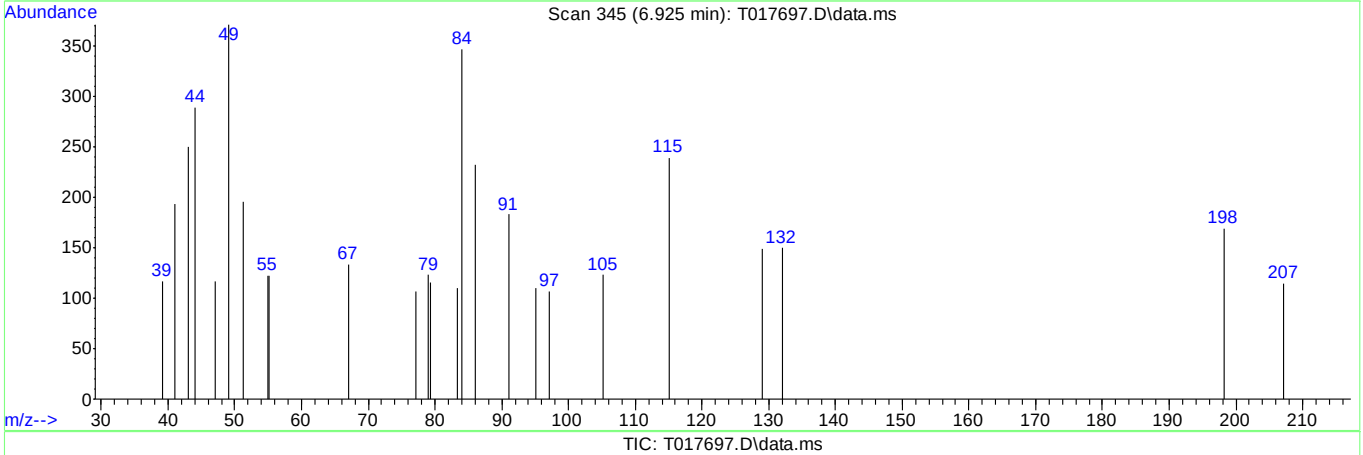
T017697.D dftpp.m Mon Apr 06 14:24:05 2015

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\DATA\st809\
Data File : T017697.D
Acq On    :  1 Apr 2015   1:13 pm
Operator  : mayrag
Sample    : dftpp
Misc      : op55409,st809,250,,,1,1,water
ALS Vial  : 1   Sample Multiplier: 1

Quant Time: Apr 06 14:24:00 2015
Quant Method : C:\msdchem\1\METHODS\dftpp.m
Quant Title  : Tune Evaluation
QLast Update : Thu Mar 26 14:49:44 2015
Response via : Initial Calibration
```





TIC: T017697.D\data.ms

(2) DFTPP

6.925min (-6.925) 0.00

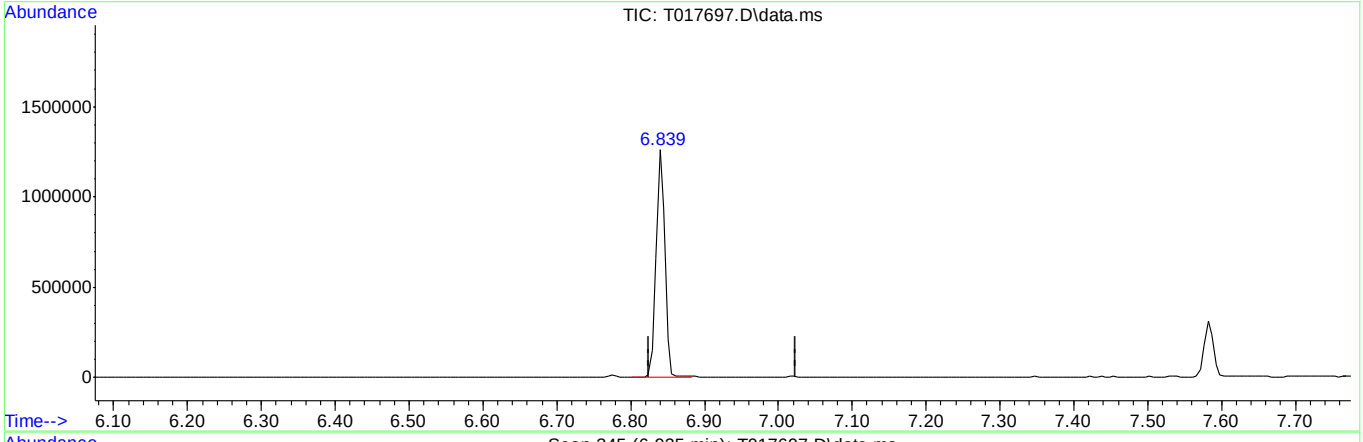
response 0

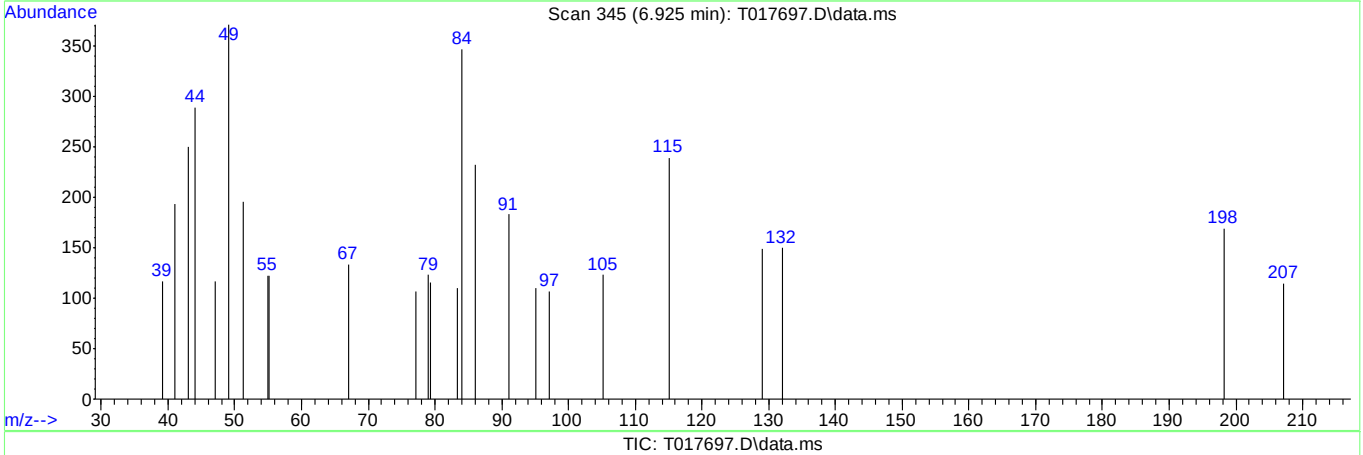
Signal	Exp%	Act%
TIC	100	0.00
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\DATA\st809\
Data File : T017697.D
Acq On    :  1 Apr 2015   1:13 pm
Operator  : mayrag
Sample    : dftpp
Misc      : op55409,st809,250,,,1,1,water
ALS Vial  : 1   Sample Multiplier: 1

Quant Time: Apr 06 14:24:00 2015
Quant Method : C:\msdchem\1\METHODS\dftpp.m
Quant Title  : Tune Evaluation
QLast Update : Thu Mar 26 14:49:44 2015
Response via : Initial Calibration
```





TIC: T017697.D\data.ms

(2) DFTPP

6.839min (-0.086) 37.09 m

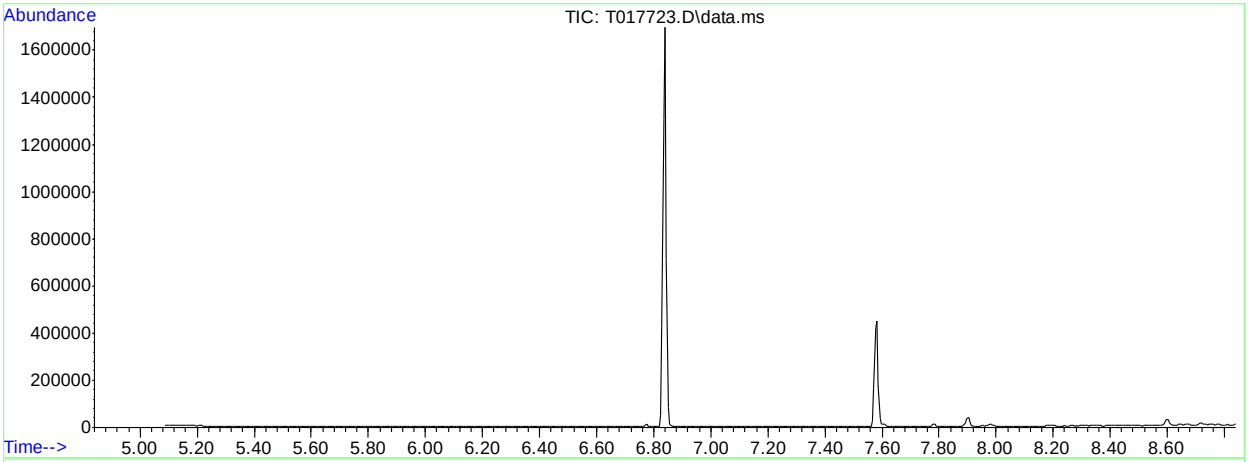
response 1046640

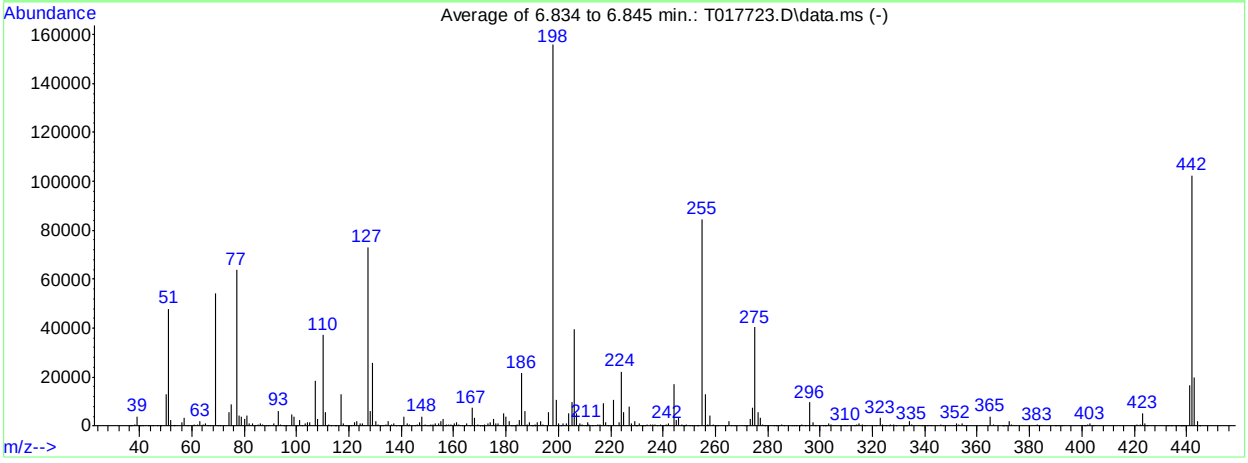
Signal	Exp%	Act%
TIC	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

SW-846 Method 8270

Data File : C:\msdchem\1\DATA\st811\T017723.D Vial: 1
Acq On : 7 Apr 2015 10:07 am Operator: mayrag
Sample : dftpp Inst : MSBNA06
Misc : op55409,st811,250,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : C:\msdchem\1\METHODS\dftpp.m (RTE Integrator)
Title : Tune Evaluation





AutoFind: Scans 328, 329, 330; Background Corrected with Scan 324

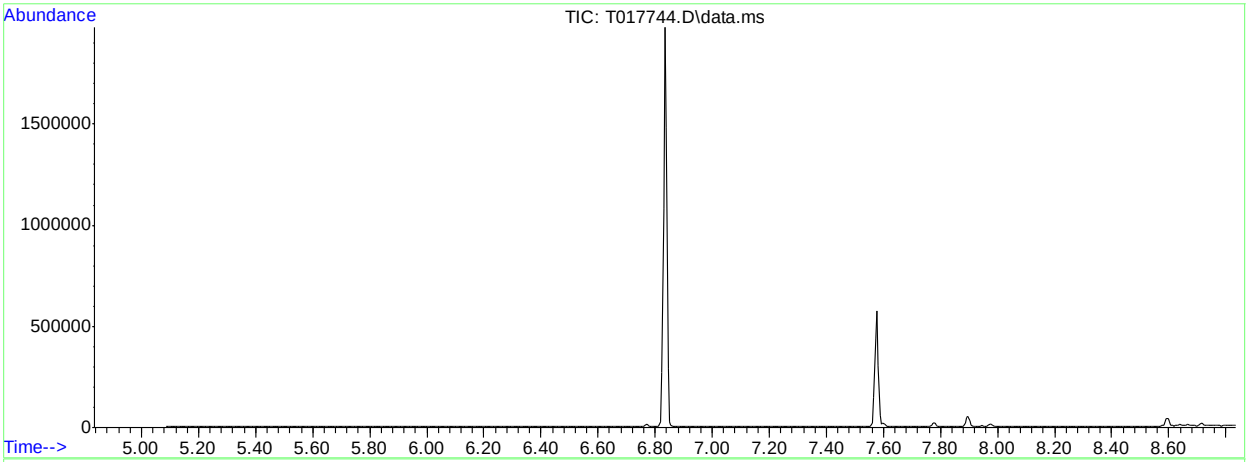
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	30.7	47900	PASS
68	69	0.00	2	0.0	0	PASS
69	198	0.00	100	34.8	54218	PASS
70	69	0.00	2	0.1	80	PASS
127	198	40	60	46.8	72960	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	155970	PASS
199	198	5	9	6.7	10520	PASS
275	198	10	30	25.8	40304	PASS
365	198	1	100	2.5	3906	PASS
441	443	0.01	100	85.0	16823	PASS
442	198	40	100	65.6	102312	PASS
443	442	17	23	19.4	19803	PASS

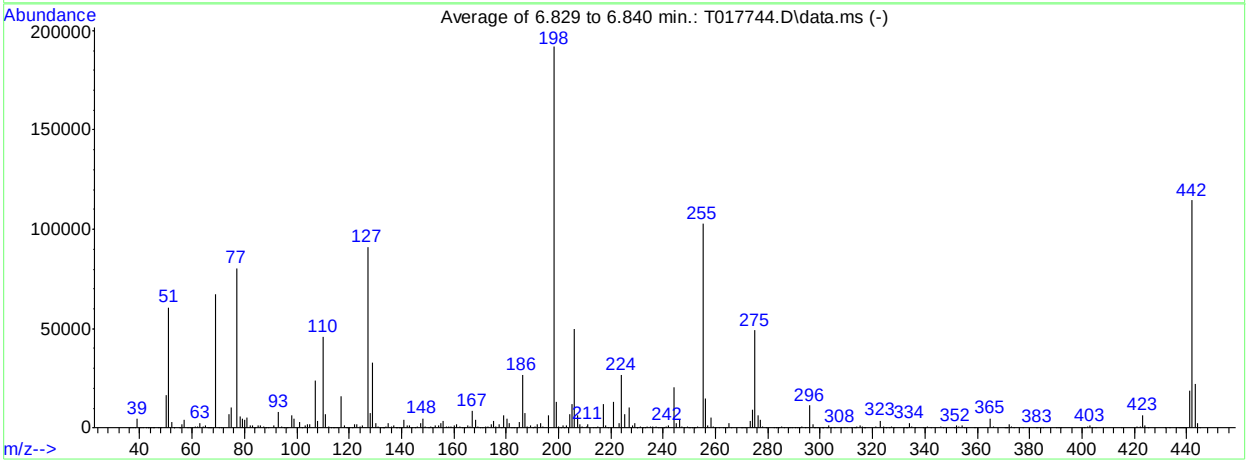
T017723.D dftpp.m Tue Apr 07 11:07:31 2015

SW-846 Method 8270

Data File : C:\msdchem\1\DATA\st811\T017744.D Vial: 1
Acq On : 7 Apr 2015 8:40 pm Operator: mayrag
Sample : dftpp Inst : MSBNA06
Misc : op55409,st811,250,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : C:\msdchem\1\METHODS\dftpp.m (RTE Integrator)
Title : Tune Evaluation





AutoFind: Scans 327, 328, 329; Background Corrected with Scan 323

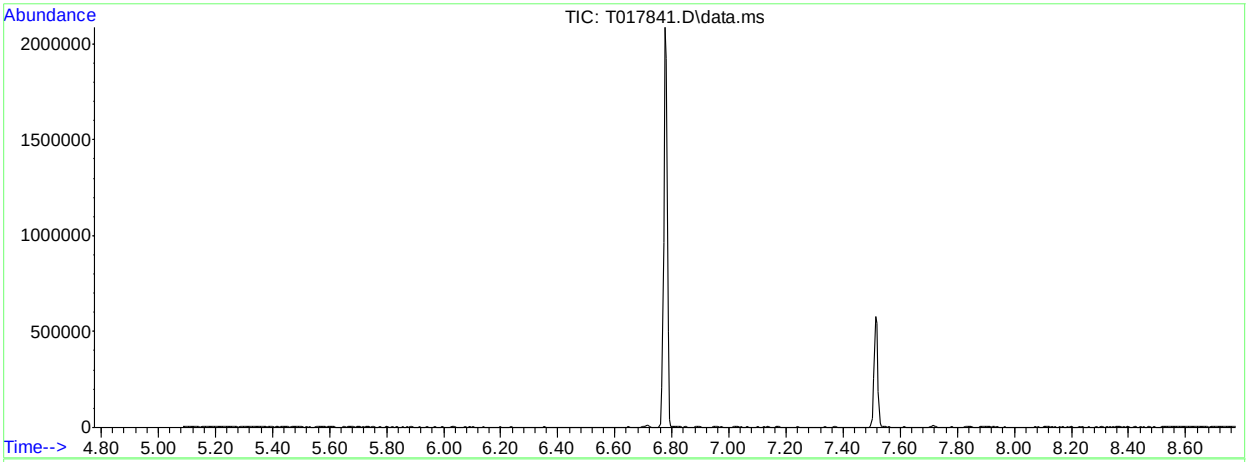
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	31.5	60451	PASS
68	69	0.00	2	0.0	0	PASS
69	198	0.00	100	35.1	67373	PASS
70	69	0.00	2	0.2	149	PASS
127	198	40	60	47.5	91245	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	192021	PASS
199	198	5	9	6.7	12951	PASS
275	198	10	30	25.5	49032	PASS
365	198	1	100	2.4	4604	PASS
441	443	0.01	100	86.5	19042	PASS
442	198	40	100	59.6	114496	PASS
443	442	17	23	19.2	22003	PASS

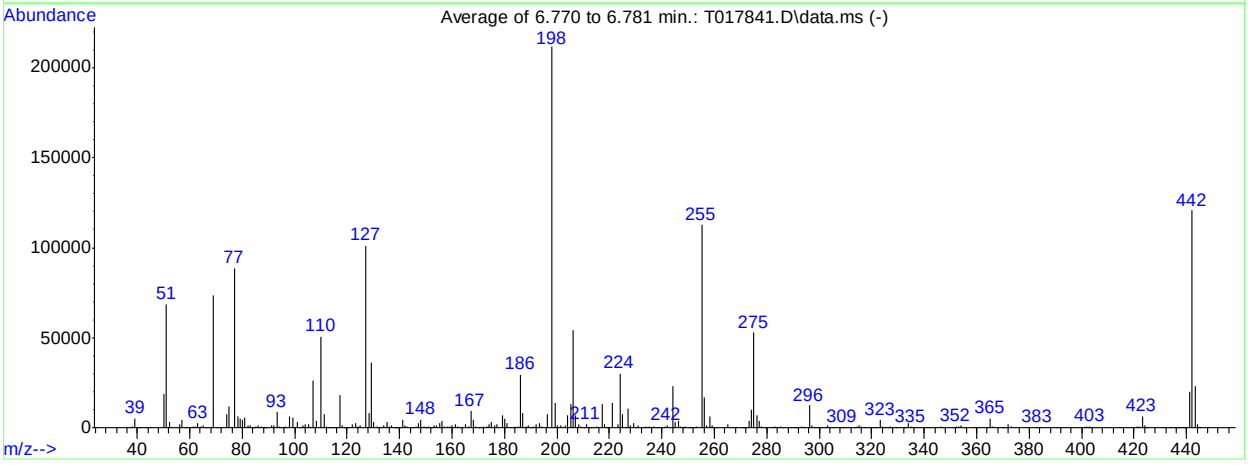
T017744.D dftpp.m Wed Apr 08 13:49:34 2015

SW-846 Method 8270

Data File : C:\msdchem\1\DATA\st813\T017841.D Vial: 1
Acq On : 10 Apr 2015 1:33 pm Operator: mayrag
Sample : dftpp Inst : MSBNA06
Misc : op55409,st813,250,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : C:\msdchem\1\METHODS\dftpp.m (RTE Integrator)
Title : Tune Evaluation





AutoFind: Scans 316, 317, 318; Background Corrected with Scan 312

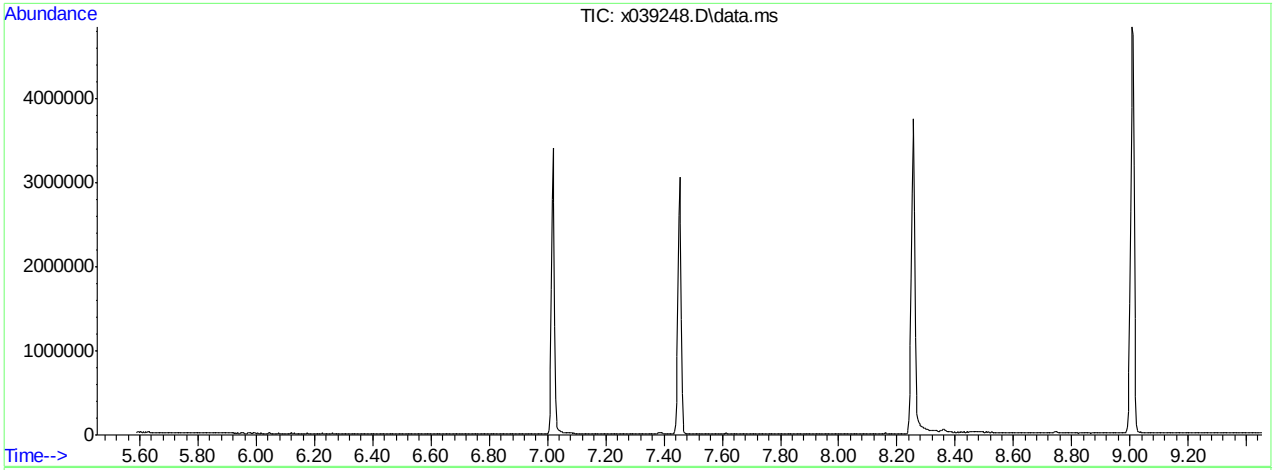
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	32.4	68544	PASS
68	69	0.00	2	0.0	0	PASS
69	198	0.00	100	34.9	73882	PASS
70	69	0.00	2	0.4	284	PASS
127	198	40	60	47.7	101066	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	211701	PASS
199	198	5	9	6.6	14068	PASS
275	198	10	30	25.0	52826	PASS
365	198	1	100	2.4	5043	PASS
441	443	0.01	100	86.2	20034	PASS
442	198	40	100	57.0	120770	PASS
443	442	17	23	19.3	23253	PASS

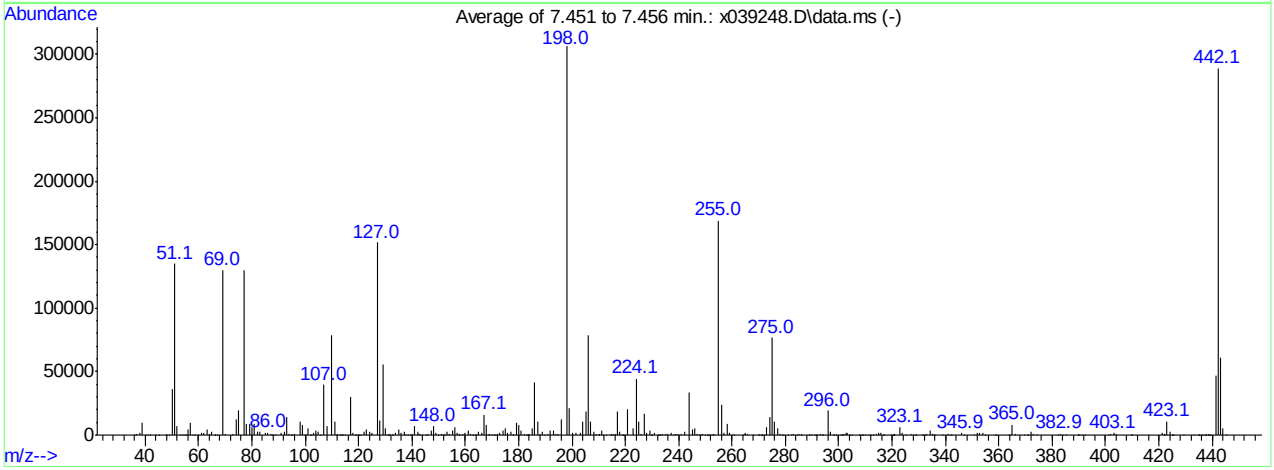
T017841.D dftpp.m Mon Apr 13 10:04:40 2015

SW-846 Method 8270

Data File : C:\msdchem\1\DATA\sx1826\x039248.D Vial: 3
Acq On : 30 Mar 2015 2:50 pm Operator: nareshj
Sample : dftpp Inst : MSBNA05
Misc : op55392,sx1826,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : C:\msdchem\1\METHODS\dftpp.m (RTE Integrator)
Title : Tune Evaluation





AutoFind: Scans 656, 657, 658; Background Corrected with Scan 647

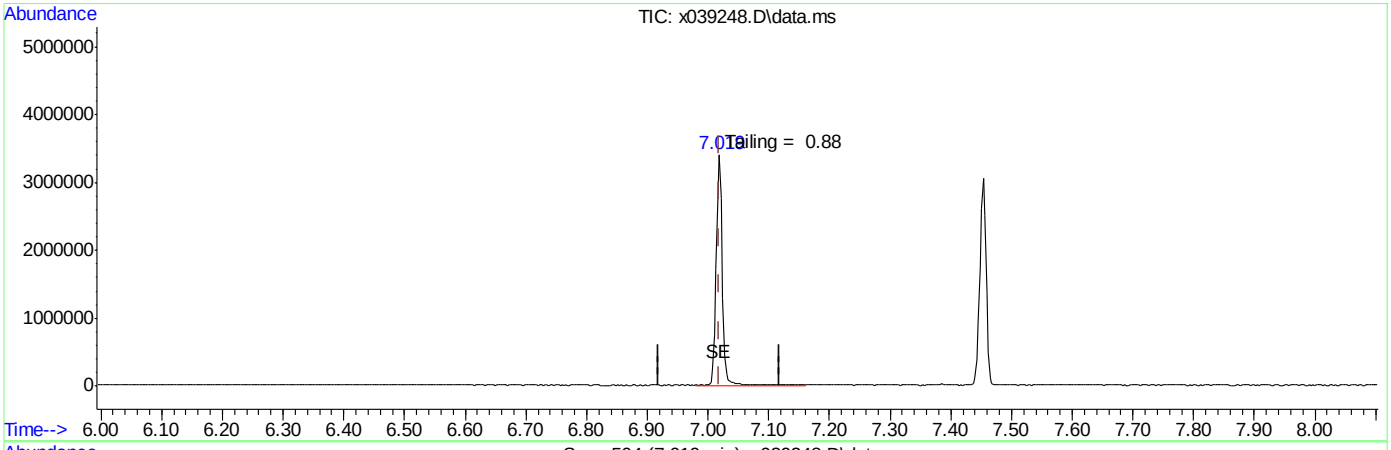
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	44.1	134923	PASS
68	69	0.00	2	0.0	0	PASS
69	198	0.00	100	42.5	130091	PASS
70	69	0.00	2	0.5	591	PASS
127	198	40	60	49.5	151563	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	306112	PASS
199	198	5	9	6.8	20803	PASS
275	198	10	30	25.0	76677	PASS
365	198	1	100	2.6	8040	PASS
441	443	0.01	100	77.4	47275	PASS
442	198	40	100	94.4	288832	PASS
443	442	17	23	21.1	61083	PASS

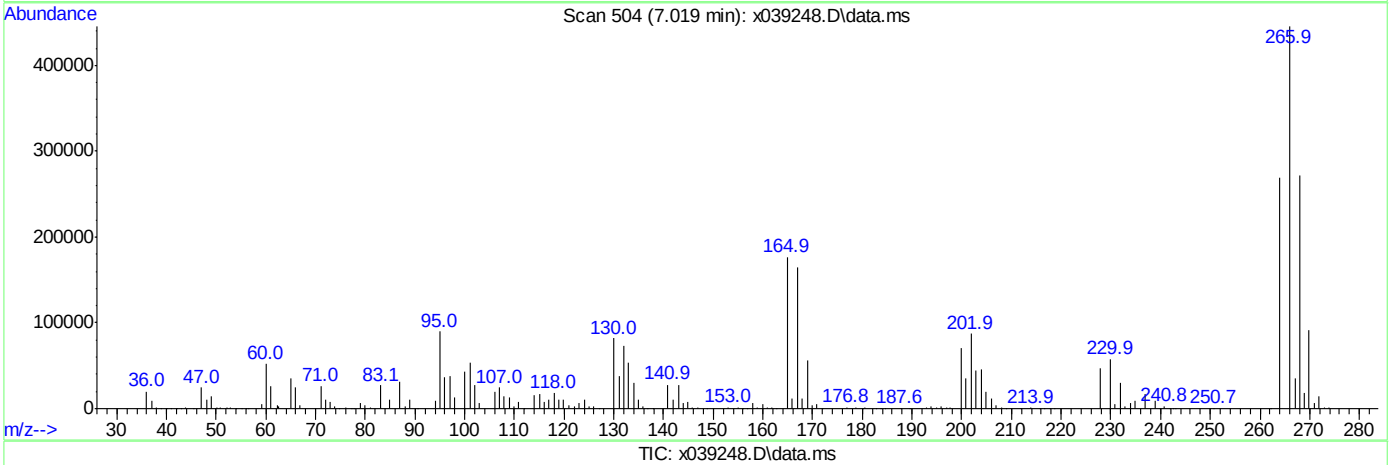
x039248.D dftpp.m Tue Mar 31 09:00:24 2015

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\sx1826\
Data File : x039248.D
Acq On : 30 Mar 2015 2:50 pm
Operator : nareshj
Sample : dftpp
Misc : op55392,sx1826,1000,,,1,1,water
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Mar 31 09:02:03 2015
Quant Method : C:\msdchem\1\METHODS\dftpp.m
Quant Title : Tune Evaluation
QLast Update : Tue Mar 31 09:00:43 2015
Response via : Initial Calibration





TIC: x039248.D\data.ms

(1) Pentachlorophenol

7.019min (0.000) 99.87

response 2388790

Signal	Exp%	Act%
TIC	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

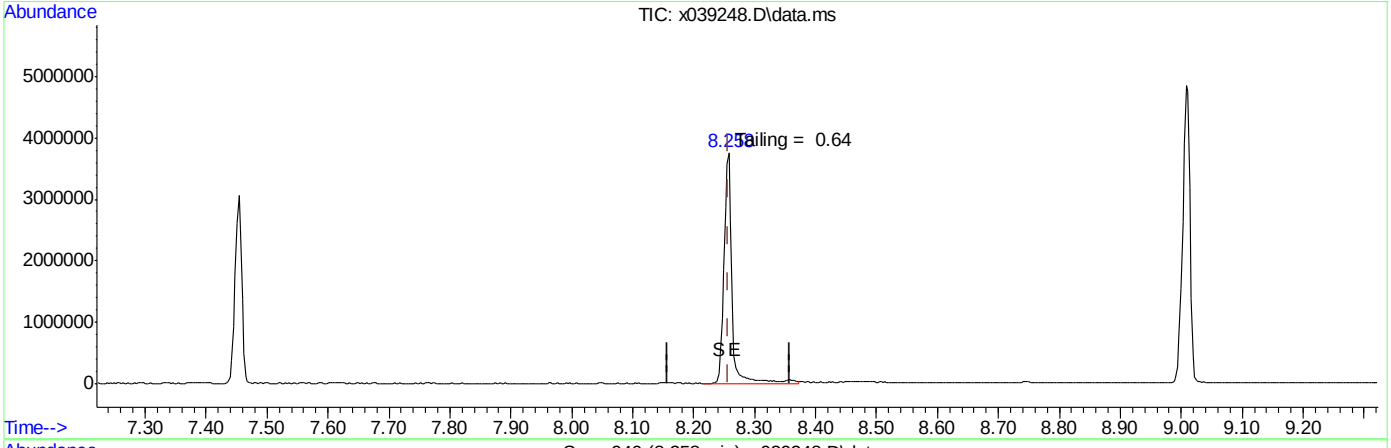
7.5.9.1

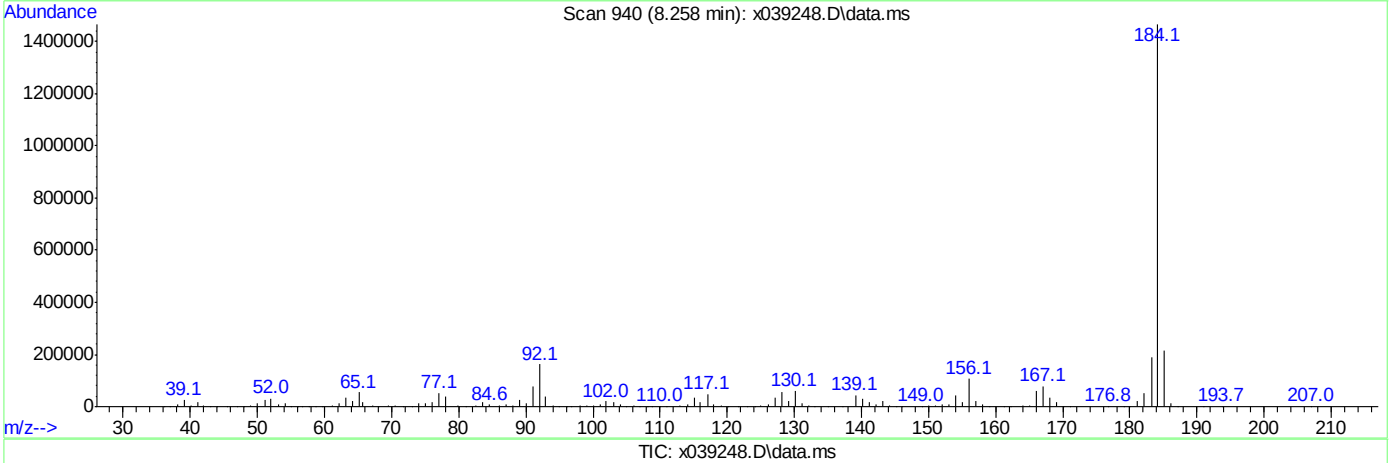
7

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\sx1826\
Data File : x039248.D
Acq On : 30 Mar 2015 2:50 pm
Operator : nareshj
Sample : dftpp
Misc : op55392,sx1826,1000,,,1,1,water
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Mar 31 09:02:03 2015
Quant Method : C:\msdchem\1\METHODS\dftpp.m
Quant Title : Tune Evaluation
QLast Update : Tue Mar 31 09:00:43 2015
Response via : Initial Calibration





TIC: x039248.D\data.ms

(3) Benzidine

8.258min (0.000) 78.85

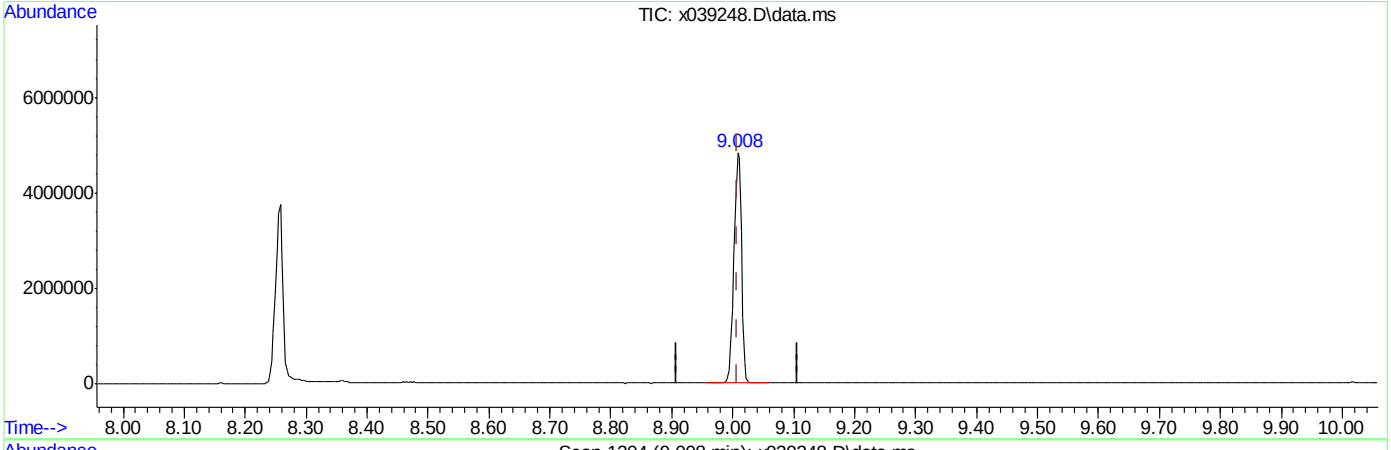
response 3344466

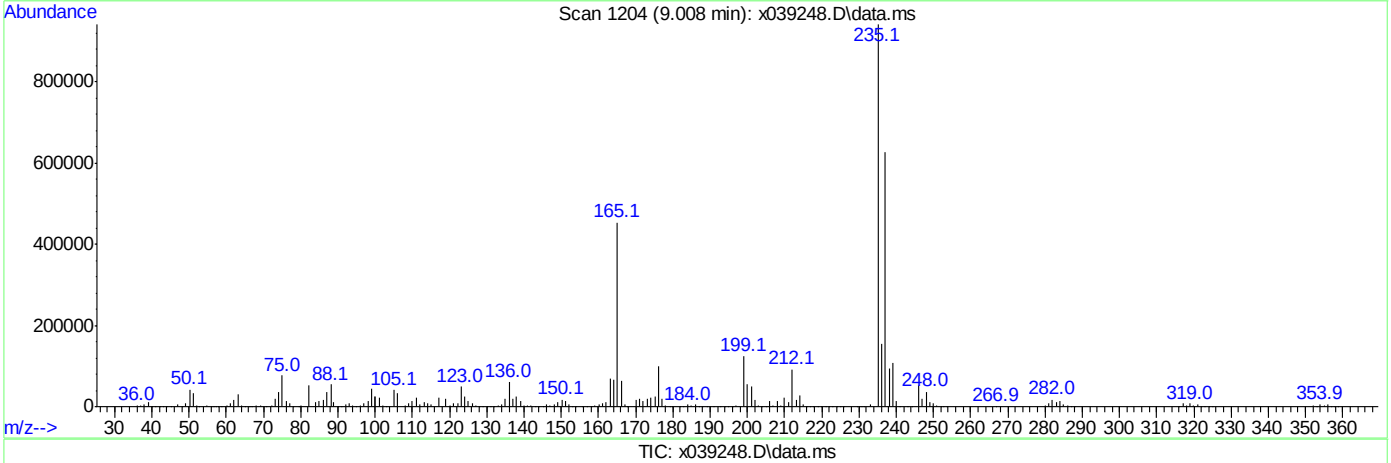
Signal	Exp%	Act%
TIC	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\sx1826\
Data File : x039248.D
Acq On : 30 Mar 2015 2:50 pm
Operator : nareshj
Sample : dftpp
Misc : op55392,sx1826,1000,,,1,1,water
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Mar 31 09:02:03 2015
Quant Method : C:\msdchem\1\METHODS\dftpp.m
Quant Title : Tune Evaluation
QLast Update : Tue Mar 31 09:00:43 2015
Response via : Initial Calibration





TIC: x039248.D\data.ms

(4) DDT

9.008min (0.000) 116.98

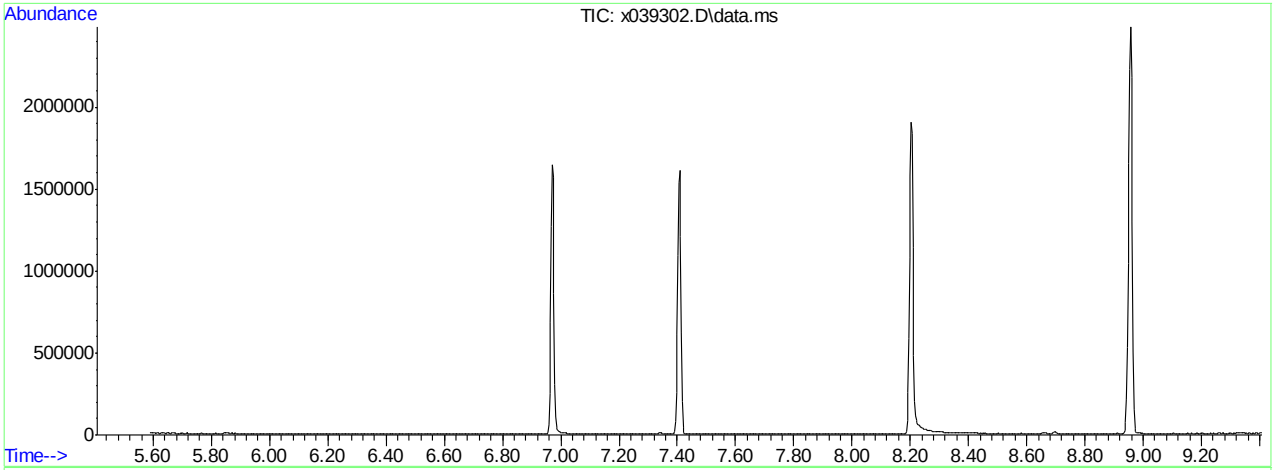
response 4083554

Signal	Exp%	Act%
TIC	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

SW-846 Method 8270

Data File : C:\msdchem\1\DATA\sx1828\x039302.D Vial: 1
Acq On : 1 Apr 2015 9:40 am Operator: marthav
Sample : dftpp Inst : MSBNA05
Misc : op55512,sx1828,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : C:\msdchem\1\METHODS\dftpp.m (RTE Integrator)
Title : Tune Evaluation



AutoFind: Scans 640, 641, 642; Background Corrected with Scan 631

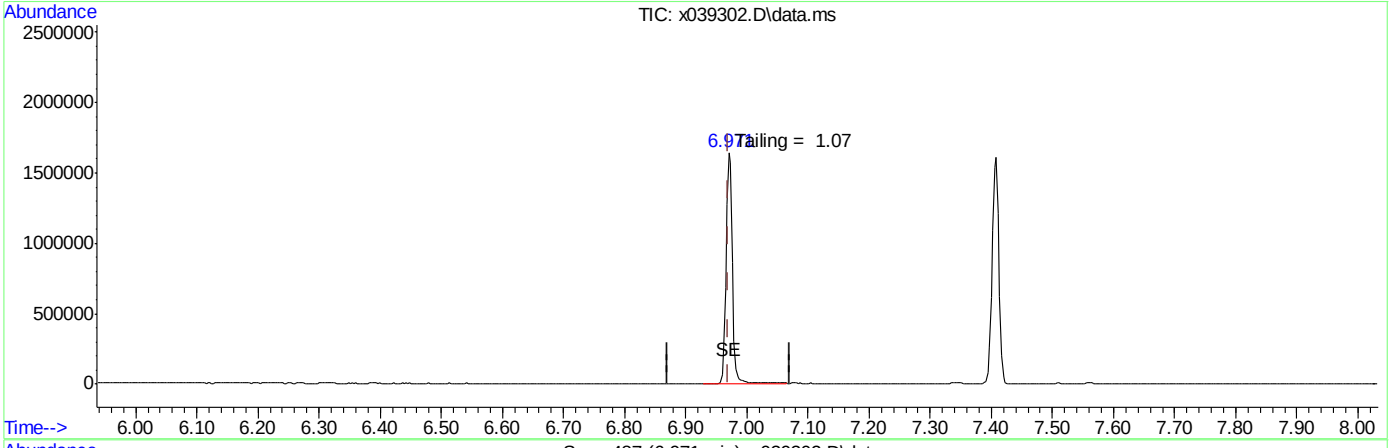
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	45.2	74706	PASS
68	69	0.00	2	0.0	0	PASS
69	198	0.00	100	43.8	72376	PASS
70	69	0.00	2	0.3	244	PASS
127	198	40	60	48.5	80235	PASS
197	198	0.00	1	0.4	665	PASS
198	198	100	100	100.0	165355	PASS
199	198	5	9	6.8	11317	PASS
275	198	10	30	23.4	38731	PASS
365	198	1	100	2.5	4135	PASS
441	443	0.01	100	81.1	26141	PASS
442	198	40	100	95.5	157845	PASS
443	442	17	23	20.4	32221	PASS

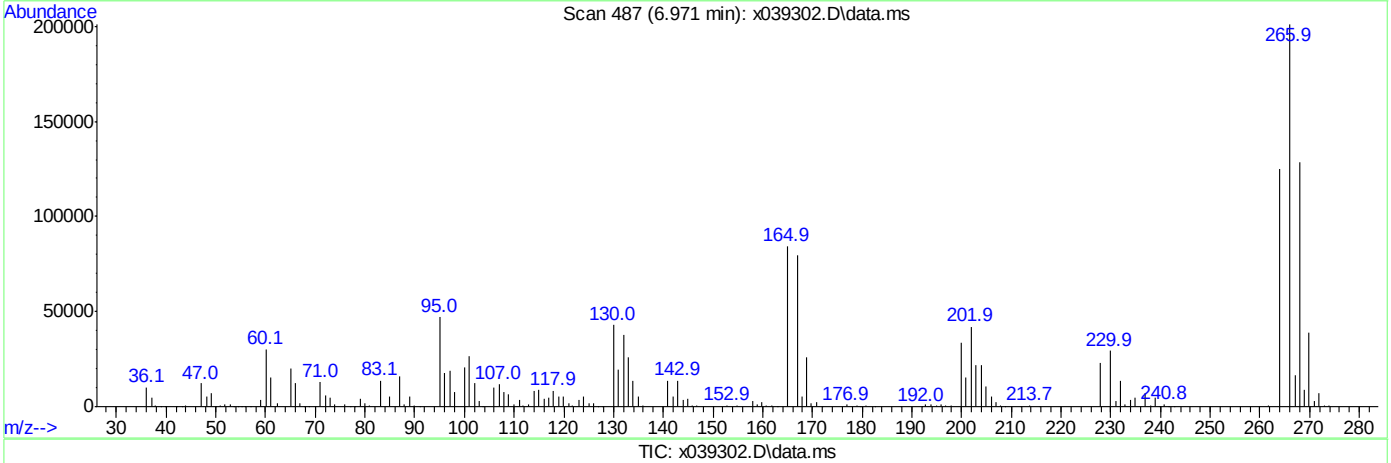
x039302.D dftpp.m Thu Apr 02 14:20:22 2015

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\sx1828\
Data File : x039302.D
Acq On : 1 Apr 2015 9:40 am
Operator : marthav
Sample : dftpp
Misc : op55512,sx1828,1000,,,1,1,water
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Apr 02 09:01:16 2015
Quant Method : C:\msdchem\1\METHODS\dftpp.m
Quant Title : Tune Evaluation
QLast Update : Thu Apr 02 09:00:15 2015
Response via : Initial Calibration





TIC: x039302.D\data.ms

(1) Pentachlorophenol

6.971min (0.000) 49.44

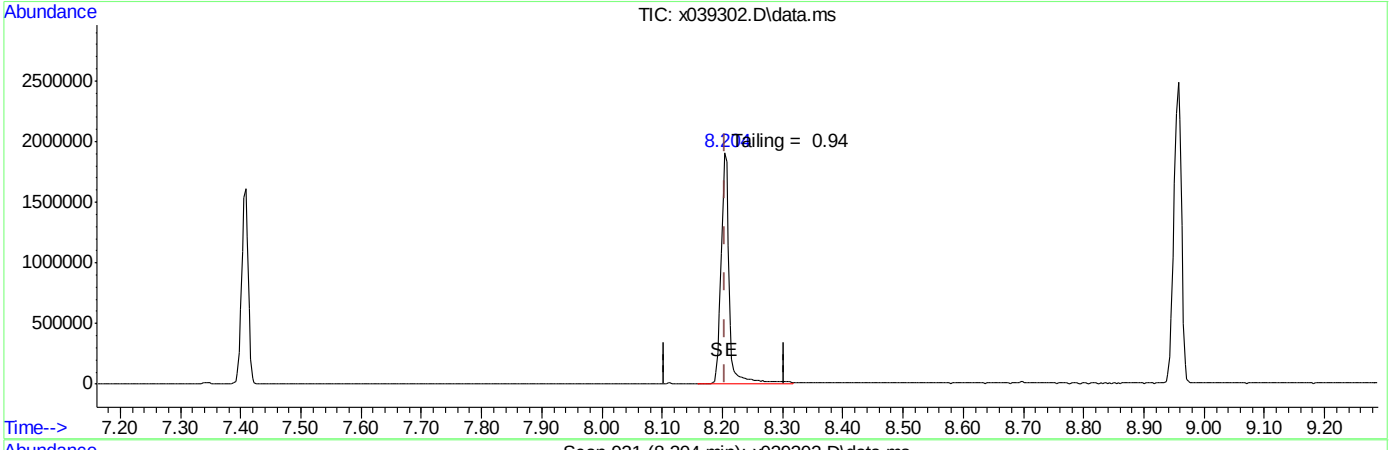
response 1182552

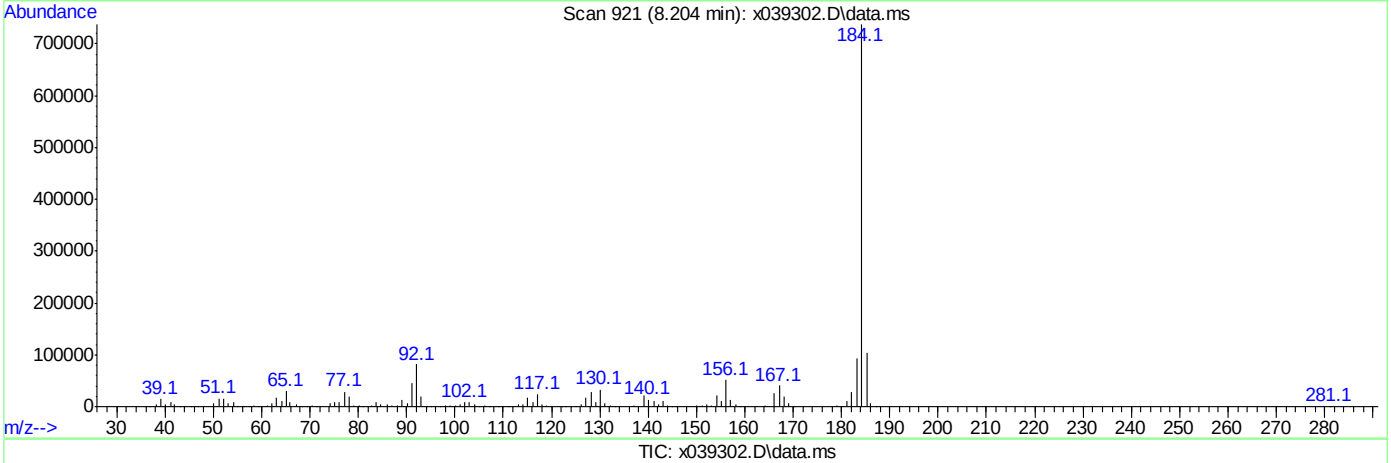
Signal	Exp%	Act%
TIC	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\sx1828\
Data File : x039302.D
Acq On : 1 Apr 2015 9:40 am
Operator : marthav
Sample : dftpp
Misc : op55512,sx1828,1000,,,1,1,water
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Apr 02 09:01:16 2015
Quant Method : C:\msdchem\1\METHODS\dftpp.m
Quant Title : Tune Evaluation
QLast Update : Thu Apr 02 09:00:15 2015
Response via : Initial Calibration





TIC: x039302.D\data.ms

(3) Benzidine

8.204min (0.000) 40.71

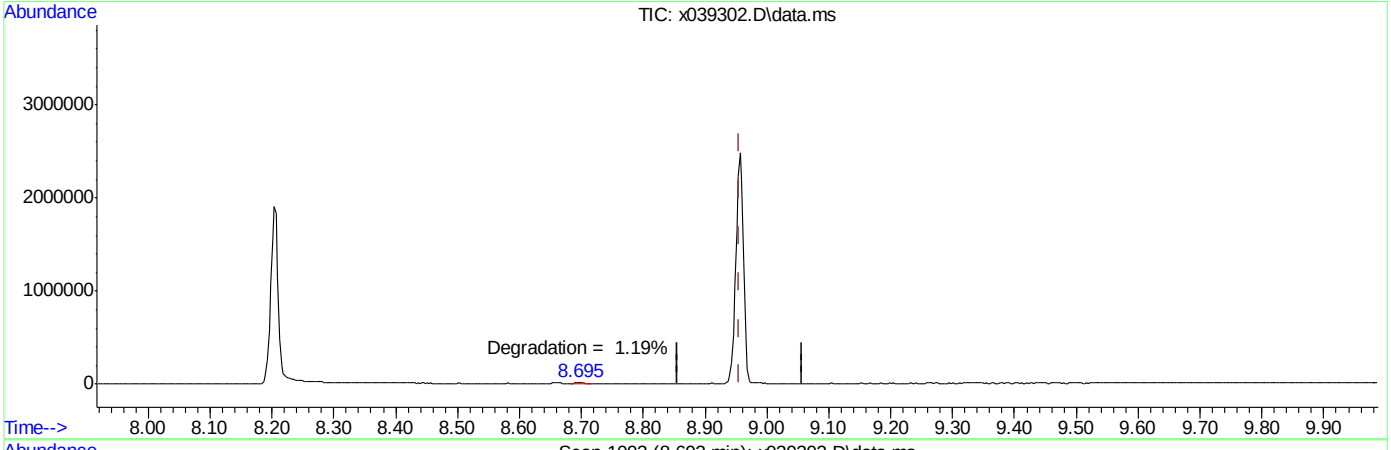
response 1726539

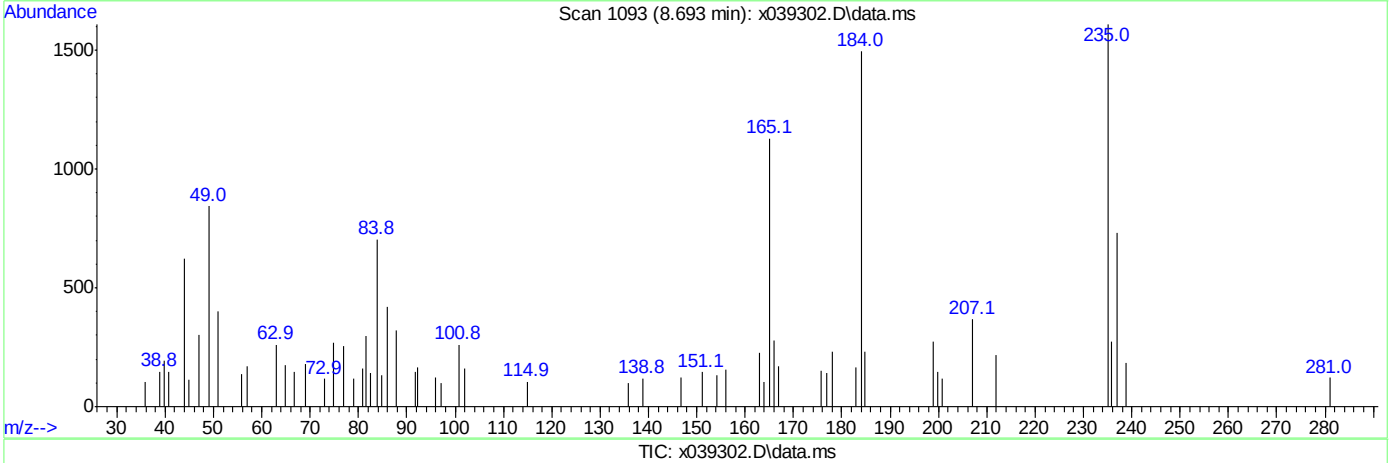
Signal	Exp%	Act%
TIC	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\sx1828\
Data File : x039302.D
Acq On : 1 Apr 2015 9:40 am
Operator : marthav
Sample : dftpp
Misc : op55512,sx1828,1000,,,1,1,water
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Apr 02 09:01:16 2015
Quant Method : C:\msdchem\1\METHODS\dftpp.m
Quant Title : Tune Evaluation
QLast Update : Thu Apr 02 09:00:15 2015
Response via : Initial Calibration





TIC: x039302.D\data.ms

(4) DDT

8.957min (0.000) 60.61

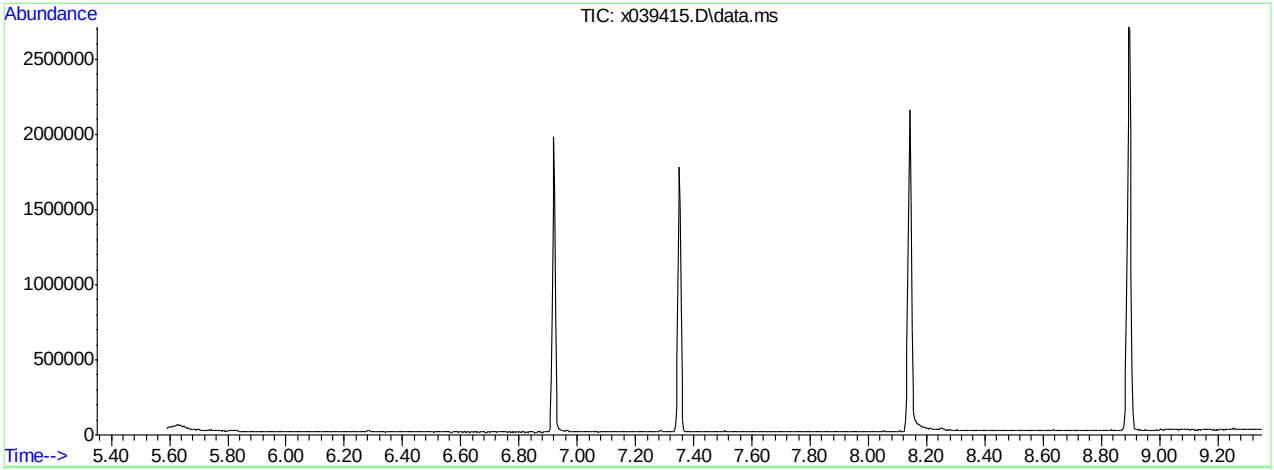
response 2115633

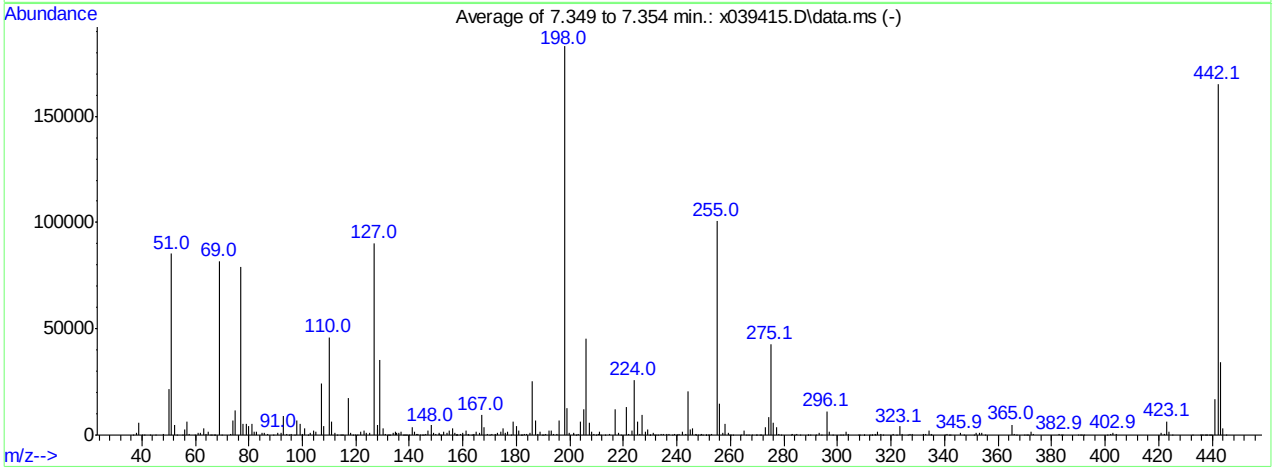
Signal	Exp%	Act%
TIC	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

SW-846 Method 8270

```
Data File : C:\msdchem\1\DATA\sx1832\x039415.D          Vial: 1
Acq On    :  7 Apr 2015  11:37 am                   Operator: marthav
Sample    : dftpp                                   Inst    : MSBNA05
Misc      : op55570,sx1832,1000,,,1,1,water         Multiplr: 1.00
MS Integration Params: RTEINT.P

Method    : C:\msdchem\1\METHODS\dftpp.m (RTE Integrator)
Title     : Tune Evaluation
```





AutoFind: Scans 620, 621, 622; Background Corrected with Scan 611

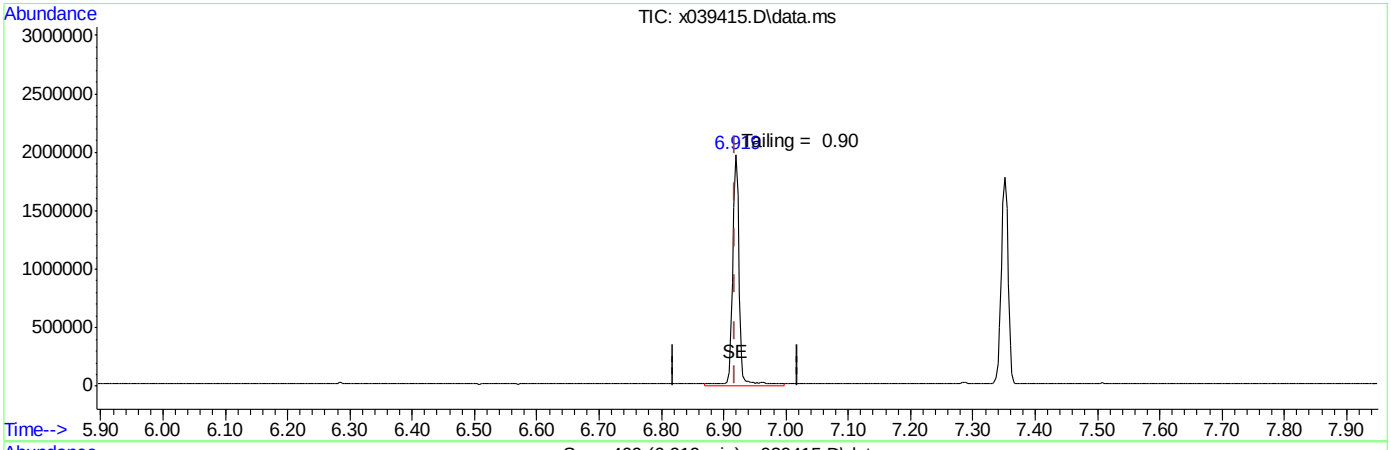
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	46.6	85268	PASS
68	69	0.00	2	0.0	0	PASS
69	198	0.00	100	44.8	81979	PASS
70	69	0.00	2	0.2	202	PASS
127	198	40	60	49.4	90405	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	182848	PASS
199	198	5	9	7.0	12807	PASS
275	198	10	30	23.4	42867	PASS
365	198	1	100	2.6	4797	PASS
441	443	0.01	100	48.6	16789	PASS
442	198	40	100	90.4	165320	PASS
443	442	17	23	20.9	34549	PASS

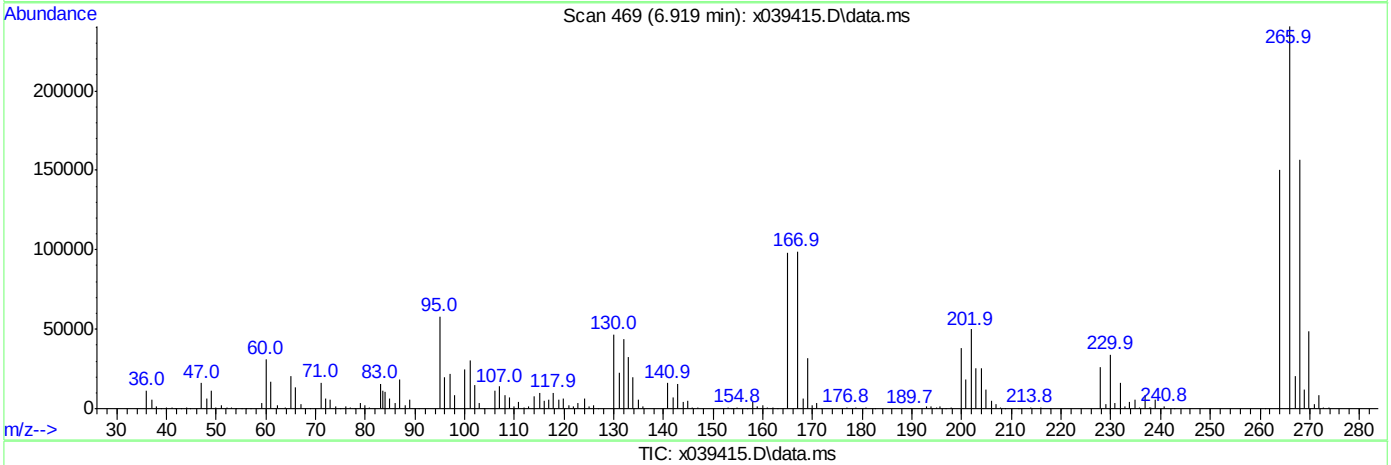
x039415.D dftpp.m Thu Apr 09 09:52:03 2015

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\sx1832\
Data File : x039415.D
Acq On : 7 Apr 2015 11:37 am
Operator : marthav
Sample : dftpp
Misc : op55570,sx1832,1000,,,1,1,water
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Apr 08 14:04:36 2015
Quant Method : C:\msdchem\1\METHODS\dftpp.m
Quant Title : Tune Evaluation
QLast Update : Wed Apr 08 14:04:23 2015
Response via : Initial Calibration





TIC: x039415.D\data.ms

(1) Pentachlorophenol

6.919min (0.000) 54.21

response 1296628

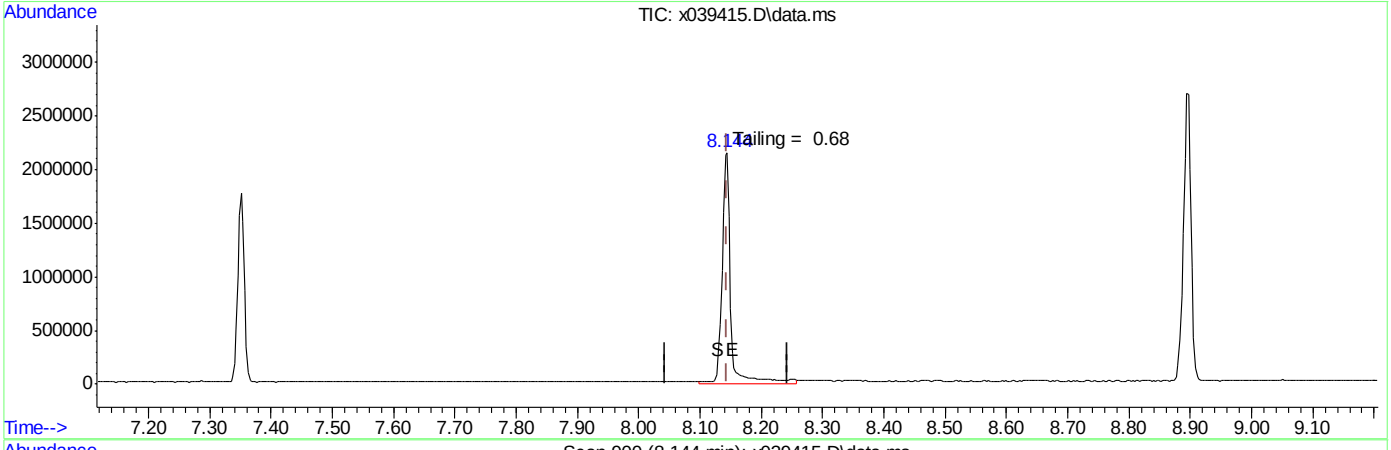
Signal	Exp%	Act%
TIC	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

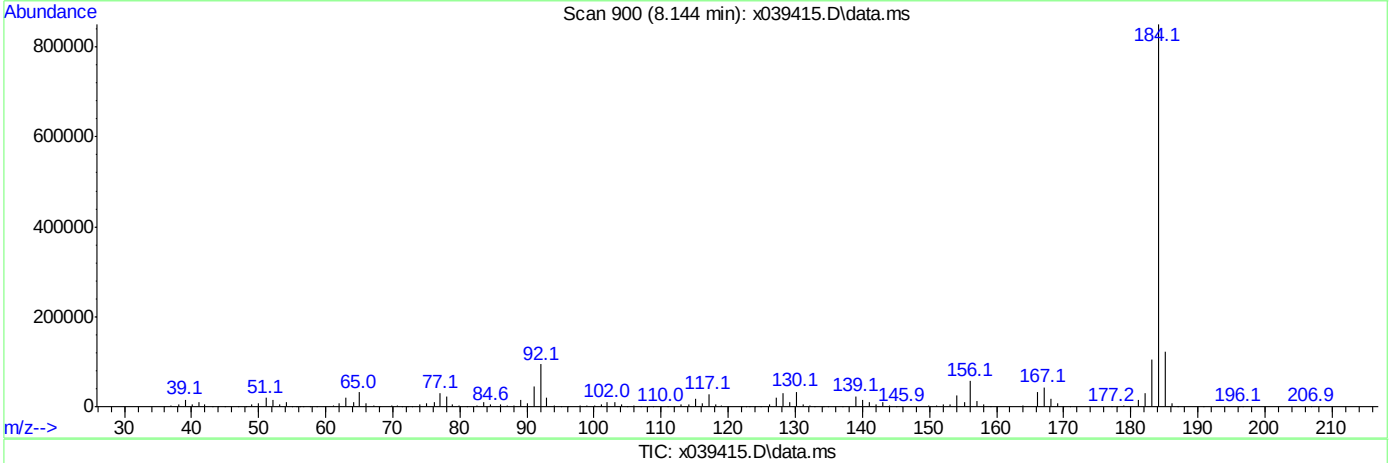
ACCUTEST LABORATORIES FA23258

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\sx1832\
Data File : x039415.D
Acq On : 7 Apr 2015 11:37 am
Operator : marthav
Sample : dftpp
Misc : op55570,sx1832,1000,,,1,1,water
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Apr 08 14:04:36 2015
Quant Method : C:\msdchem\1\METHODS\dftpp.m
Quant Title : Tune Evaluation
QLast Update : Wed Apr 08 14:04:23 2015
Response via : Initial Calibration





TIC: x039415.D\data.ms

(3) Benzidine

8.144min (0.000) 44.26

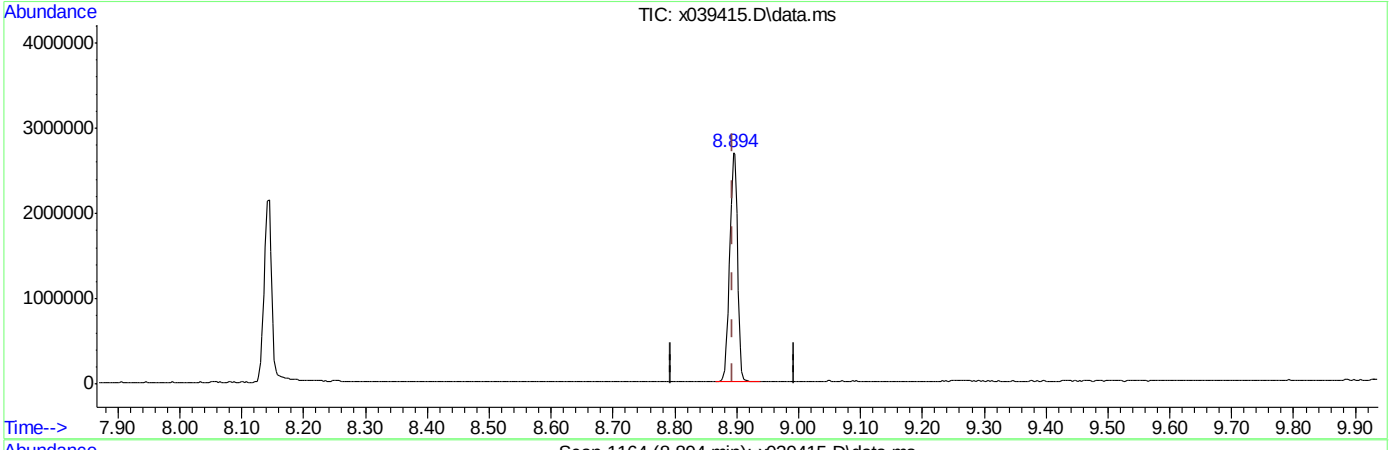
response 1877345

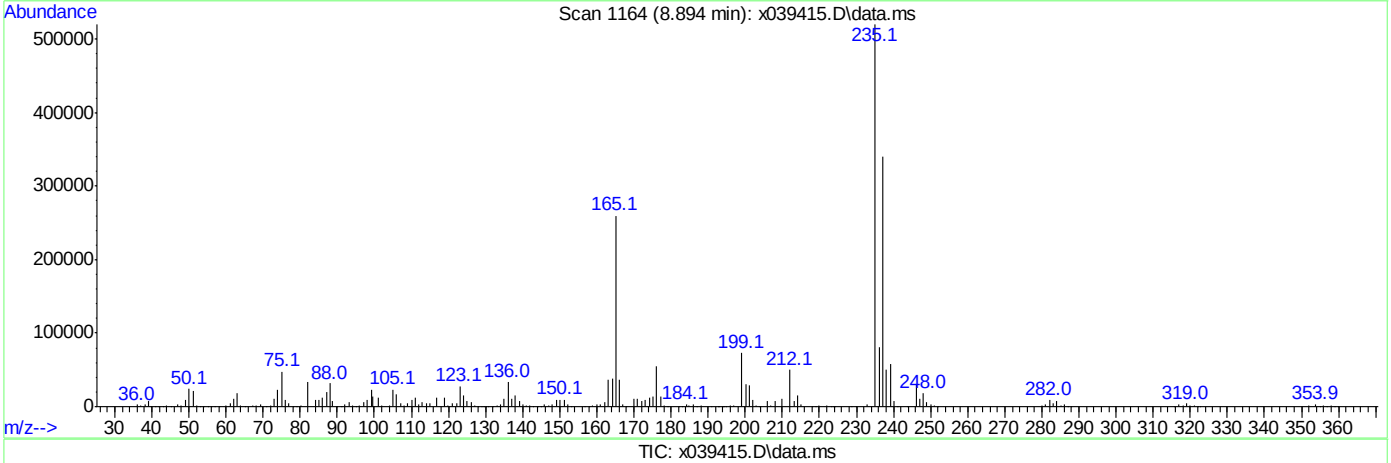
Signal	Exp%	Act%
TIC	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\sx1832\
Data File : x039415.D
Acq On : 7 Apr 2015 11:37 am
Operator : marthav
Sample : dftpp
Misc : op55570,sx1832,1000,,,1,1,water
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Apr 08 14:04:36 2015
Quant Method : C:\msdchem\1\METHODS\dftpp.m
Quant Title : Tune Evaluation
QLast Update : Wed Apr 08 14:04:23 2015
Response via : Initial Calibration





TIC: x039415.D\data.ms

(4) DDT

8.894min (0.000) 67.44

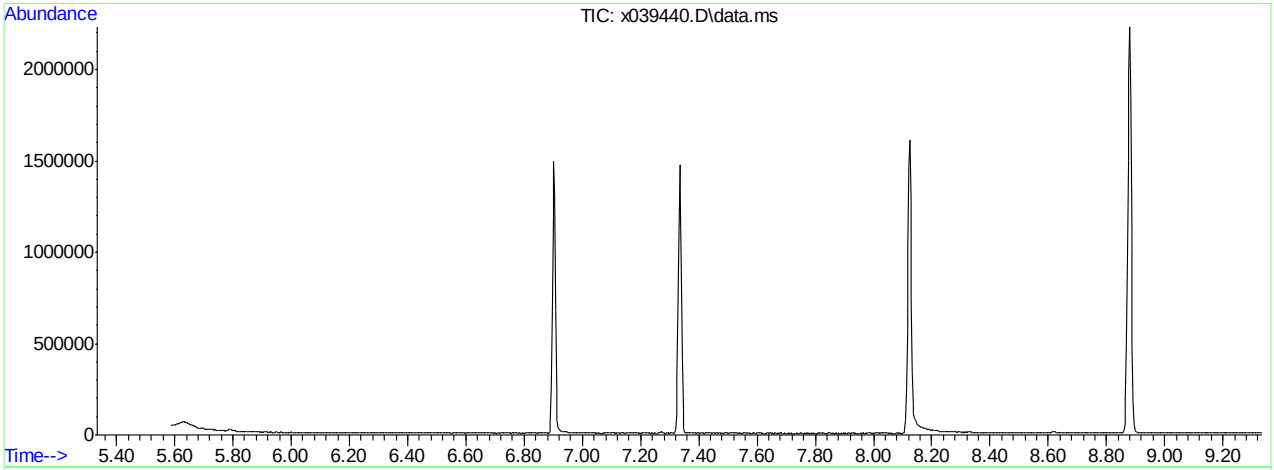
response 2354353

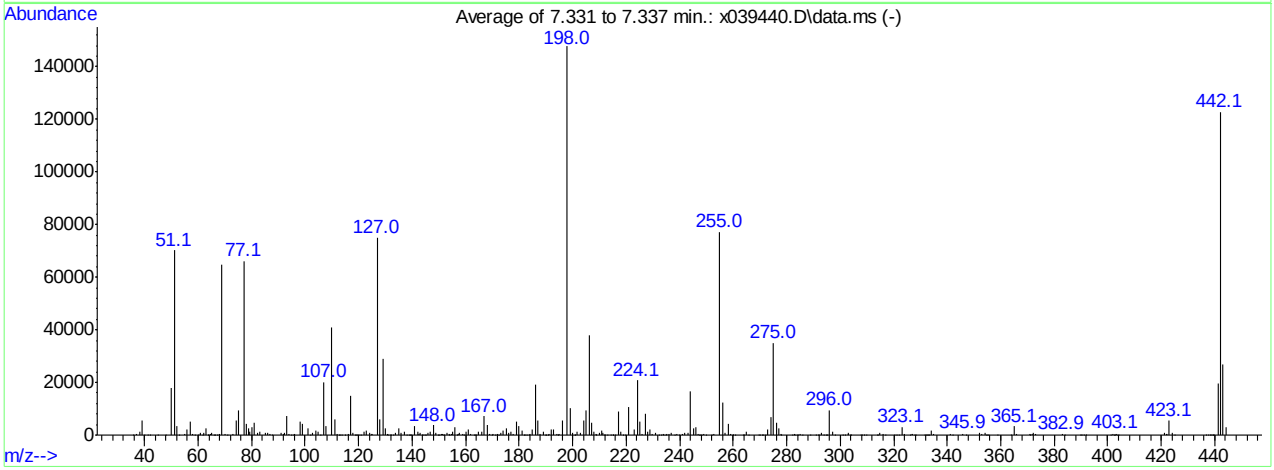
Signal	Exp%	Act%
TIC	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

SW-846 Method 8270

Data File : C:\msdchem\1\DATA\sx1833\x039440.D Vial: 1
Acq On : 8 Apr 2015 2:01 pm Operator: marthav
Sample : dftpp Inst : MSBNA05
Misc : op55570,sx1833,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : C:\msdchem\1\METHODS\dftpp.m (RTE Integrator)
Title : Tune Evaluation





AutoFind: Scans 614, 615, 616; Background Corrected with Scan 606

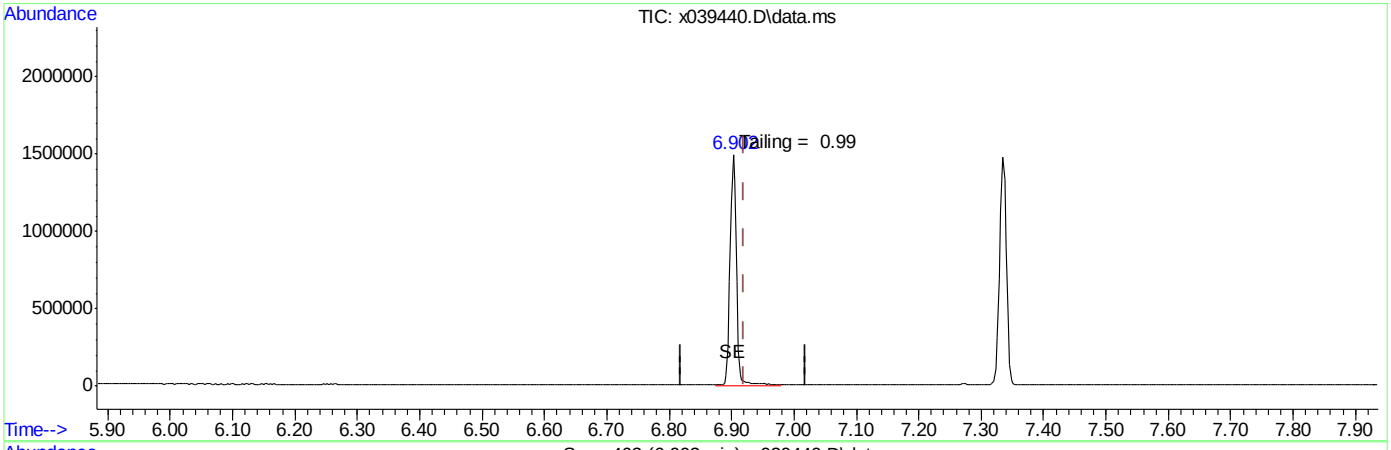
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	47.5	70149	PASS
68	69	0.00	2	0.7	472	PASS
69	198	0.00	100	43.9	64912	PASS
70	69	0.00	2	0.6	371	PASS
127	198	40	60	50.7	74843	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	147715	PASS
199	198	5	9	7.0	10337	PASS
275	198	10	30	23.8	35107	PASS
365	198	1	100	2.3	3373	PASS
441	443	0.01	100	74.1	19757	PASS
442	198	40	100	83.2	122864	PASS
443	442	17	23	21.7	26659	PASS

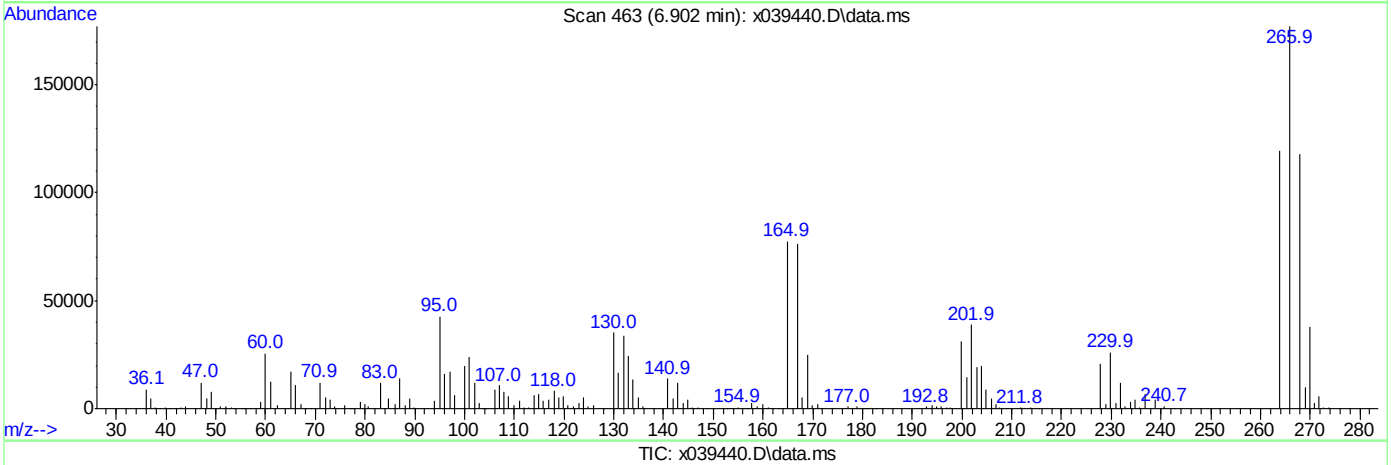
x039440.D dftpp.m Thu Apr 09 15:14:44 2015

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\sx1833\
Data File : x039440.D
Acq On : 8 Apr 2015 2:01 pm
Operator : marthav
Sample : dftpp
Misc : op55570,sx1833,1000,,,1,1,water
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Apr 08 14:15:47 2015
Quant Method : C:\msdchem\1\METHODS\dftpp.m
Quant Title : Tune Evaluation
QLast Update : Wed Apr 08 14:04:23 2015
Response via : Initial Calibration





TIC: x039440.D\data.ms

(1) Pentachlorophenol

6.902min (-0.017) 43.02

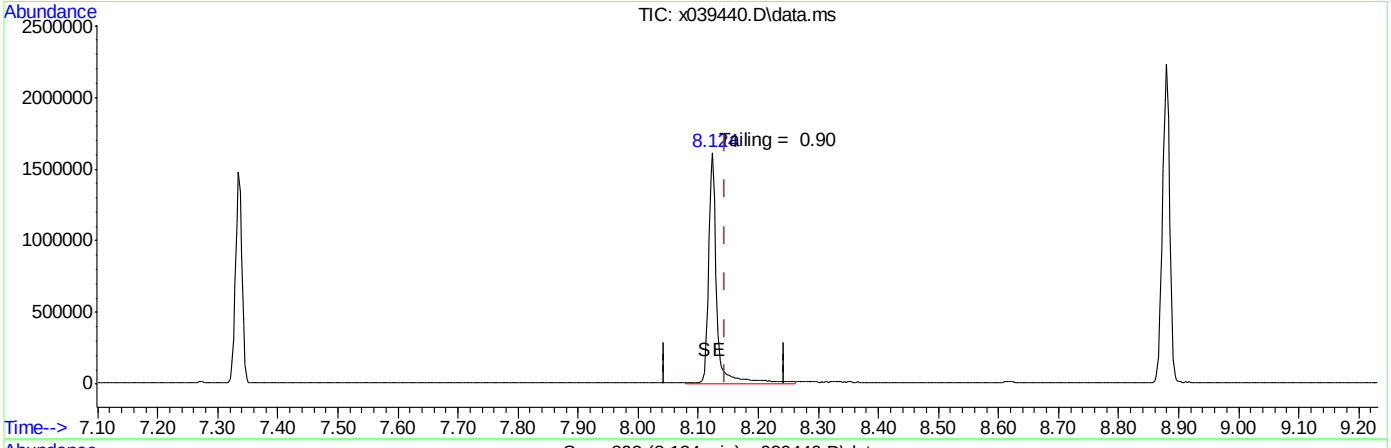
response 1029123

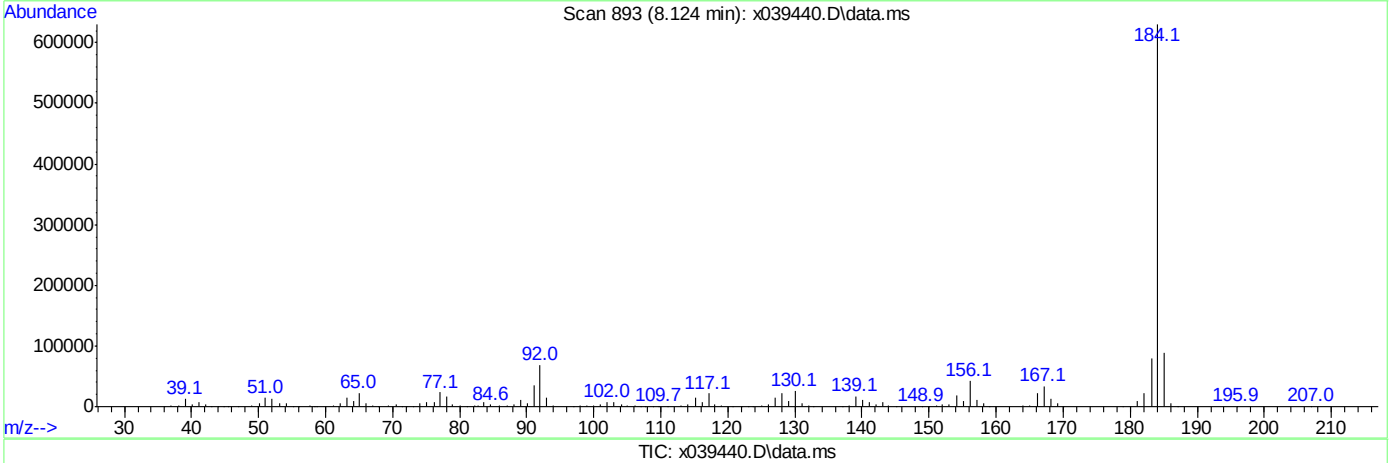
Signal	Exp%	Act%
TIC	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\sx1833\
Data File : x039440.D
Acq On : 8 Apr 2015 2:01 pm
Operator : marthav
Sample : dftpp
Misc : op55570,sx1833,1000,,,1,1,water
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Apr 08 14:15:47 2015
Quant Method : C:\msdchem\1\METHODS\dftpp.m
Quant Title : Tune Evaluation
QLast Update : Wed Apr 08 14:04:23 2015
Response via : Initial Calibration





TIC: x039440.D\data.ms

(3) Benzidine

8.124min (-0.020) 34.30

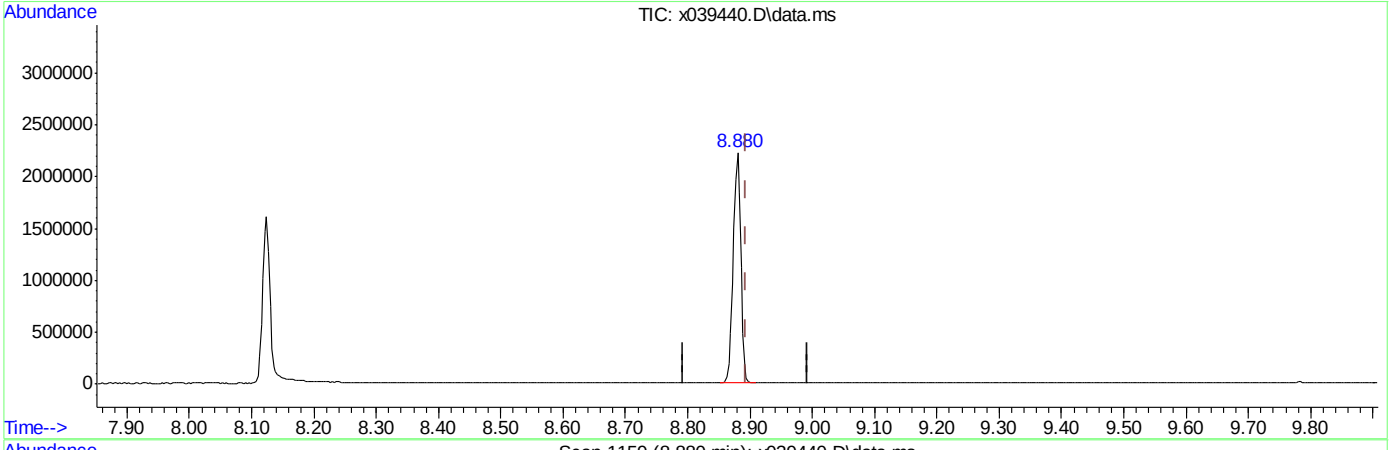
response 1454689

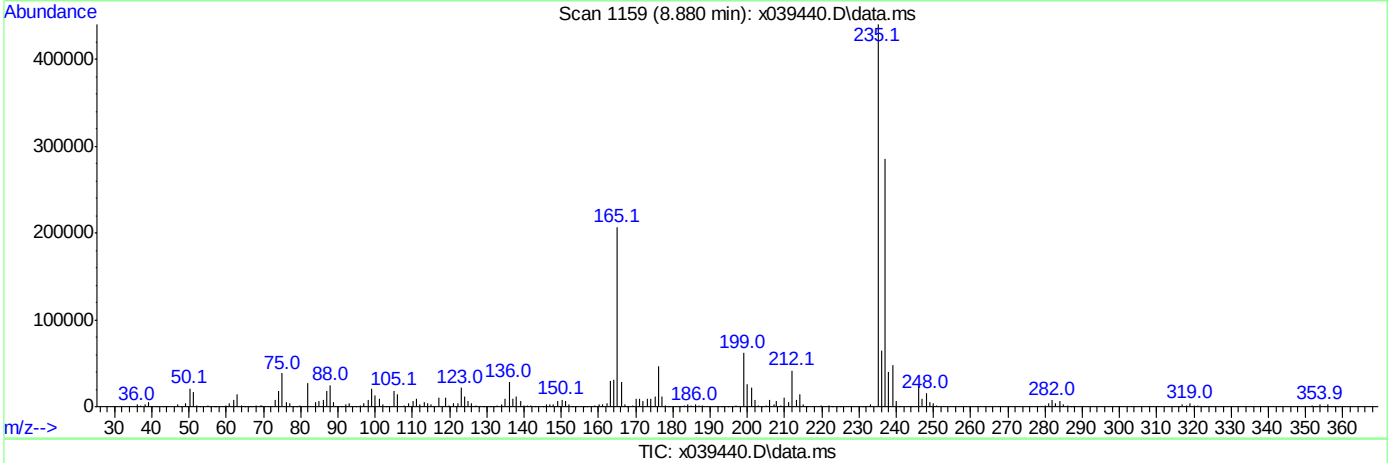
Signal	Exp%	Act%
TIC	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\sx1833\
Data File : x039440.D
Acq On : 8 Apr 2015 2:01 pm
Operator : marthav
Sample : dftpp
Misc : op55570,sx1833,1000,,,1,1,water
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Apr 08 14:15:47 2015
Quant Method : C:\msdchem\1\METHODS\dftpp.m
Quant Title : Tune Evaluation
QLast Update : Wed Apr 08 14:04:23 2015
Response via : Initial Calibration





TIC: x039440.D\data.ms

(4) DDT

8.880min (-0.014) 53.94

response 1882856

Signal	Exp%	Act%
TIC	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\sl3629\
Data File : L0681697.D
Acq On : 2 Apr 2015 11:14 am
Operator : nareshj
Sample : ic3629-5
Misc : op55410,sl3629,1000,,,1,1,water
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Apr 02 13:45:10 2015
Quant Method : C:\msdchem\1\METHODS\8270da.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Thu Apr 02 13:42:57 2015
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	5.146	152	213148	40.00 ppm	0.00
22) Naphthalene-d8	6.327	136	723344	40.00 ppm	0.00
42) Acenaphthene-d10	8.666	164	402577	40.00 ppm	0.00
68) Phenanthrene-d10	11.145	188	650821	40.00 ppm	0.00
84) Chrysene-d12	16.081	240	565895	40.00 ppm	0.00
93) Perylene-d12	18.597	264	477450	40.00 ppm	0.00
System Monitoring Compounds					
7) 2-Fluorophenol	4.190	112	92662	11.92 ppm	0.00
Spiked Amount 100.000	Range 14 - 67		Recovery = 11.92%#		
9) Phenol-d5	4.884	99	103847	11.12 ppm	0.00
Spiked Amount 100.000	Range 10 - 50		Recovery = 11.12%		
23) Nitrobenzene-d5	5.637	82	41405	5.34 ppm	0.00
Spiked Amount 50.000	Range 42 - 108		Recovery = 10.68%#		
46) 2-Fluorobiphenyl	7.673	172	74489	5.77 ppm	0.00
Spiked Amount 50.000	Range 40 - 106		Recovery = 11.54%#		
73) 2,4,6-Tribromophenol	9.975	330	24757	10.51 ppm	0.00
Spiked Amount 100.000	Range 33 - 118		Recovery = 10.51%#		
87) Terphenyl-d14	14.179	244	68046	4.81 ppm	0.00
Spiked Amount 50.000	Range 39 - 121		Recovery = 9.62%#		

Target Compounds					Qvalue
2) 1,4-Dioxane	2.753	88	28738	6.10 ppm	94
3) N-nitrosodimethylamine	3.073	42	33022	6.65 ppm	83
4) Pyridine	3.084	79	70105	6.38 ppm	77
5) Benzaldehyde	4.804	106	43088	6.25 ppm	99
6) Aniline	4.911	93	70597	6.28 ppm	86
8) bis(2-Chloroethyl)ether	4.954	93	44653	5.70 ppm	91
10) Phenol	4.895	94	65513	6.35 ppm	97
11) 2-Chlorophenol	5.007	128	42163	5.73 ppm	93
12) 1,3-Dichlorobenzene	5.119	146	46228	5.74 ppm	97
13) 1,4-Dichlorobenzene	5.157	146	41163	5.44 ppm	96
14) 1,2-Dichlorobenzene	5.317	146	40709	5.45 ppm	97
15) Benzyl alcohol	5.269	108	27146	4.97 ppm	99
16) bis(2-chloroisopropyl)...	5.397	45	86754	6.68 ppm	88
17) 2-Methylphenol	5.370	108	37986	5.39 ppm	94
18) Acetophenone	5.498	105	55690	5.76 ppm	96
19) Hexachloroethane	5.584	117	16458	5.35 ppm	88
20) N-Nitroso-di-n-propyla...	5.515	70	26069	5.33 ppm	86
21) 3&4-Methylphenol	5.493	108	39513	5.23 ppm	97
24) Nitrobenzene	5.653	77	44824	6.05 ppm	90
25) Isophorone	5.862	82	81094	5.59 ppm	88
26) 2-Nitrophenol	5.958	139	19989	5.03 ppm	93
27) 2,4-Dimethylphenol	5.979	107	36586	5.37 ppm	97
28) bis(2-Chloroethoxy)met...	6.075	93	50771	5.74 ppm	91
29) Benzoic Acid	6.038	105	26906	5.71 ppm	98
30) 2,4-Dichlorophenol	6.188	162	30102	5.10 ppm	98
31) 1,2,4-Trichlorobenzene	6.284	180	34838	5.10 ppm	99
33) Naphthalene	6.348	128	99311	5.75 ppm	93
34) 4-Chloroaniline	6.417	127	45638	5.26 ppm	96

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\sl3629\
Data File : L0681697.D
Acq On : 2 Apr 2015 11:14 am
Operator : nareshj
Sample : ic3629-5
Misc : op55410,sl3629,1000,,,1,1,water
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Apr 02 13:45:10 2015
Quant Method : C:\msdchem\1\METHODS\8270da.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Thu Apr 02 13:42:57 2015
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
35) 2,6-Dichlorophenol	6.433	162	28785	5.07	ppm		94
36) Hexachlorobutadiene	6.546	225	17227	4.90	ppm		94
37) Caprolactam	6.749	113	12723	4.96	ppm		94
38) 4-Chloro-3-methylphenol	6.978	107	31828	4.91	ppm		99
39) 2-Methylnaphthalene	7.155	142	75782	5.41	ppm		96
40) 1-Methylnaphthalene	7.293	142	67737	5.31	ppm		92
41) 1,2,4,5-Tetrachloroben...	7.427	216	31821	4.84	ppm		94
43) Hexachlorocyclopentadiene	7.459	237	19790	5.16	ppm		91
44) 2,4,6-Trichlorophenol	7.566	196	20674	4.97	ppm		97
45) 2,4,5-Trichlorophenol	7.614	196	21862	5.09	ppm		95
47) 1,1'-Biphenyl	7.796	154	88066	6.00	ppm		93
48) 2-Chloronaphthalene	7.806	162	62939	5.71	ppm		96
49) 2-Nitroaniline	7.999	65	21075	5.11	ppm		87
50) p-Dinitrobenzene	8.159	75	11907	4.32	ppm		99
51) Acenaphthylene	8.426	152	106261	5.98	ppm		92
52) Dimethylphthalate	8.325	163	69909	5.36	ppm		98
53) m-Dinitrobenzene	8.335	168	10670	4.32	ppm		87
54) 2,6-Dinitrotoluene	8.421	165	14619	4.55	ppm		76
55) o-Dinitrobenzene	8.517	50	12977	5.74	ppm		85
56) Acenaphthene	8.714	153	57967	5.24	ppm		95
57) 3-Nitroaniline	8.624	138	19610	4.80	ppm		96
58) 2,4-Dinitrophenol	8.789	184	5218	2.78	ppm		89
59) Dibenzofuran	8.966	168	88105	5.67	ppm		93
60) 2,4-Dinitrotoluene	9.035	165	17578	4.21	ppm		78
61) 4-Nitrophenol	8.923	109	7034	4.38	ppm	#	80
62) 2,3,5,6-Tetrachlorophenol	9.174	232	18467	4.79	ppm		96
63) 2,3,4,6-Tetrachlorophenol	9.249	232	17630	4.75	ppm		87
64) Fluorene	9.532	166	71426	5.50	ppm		98
65) 4-Chlorophenyl-phenyle...	9.559	204	32486	5.51	ppm		98
66) Diethylphthalate	9.484	149	67566	5.07	ppm		95
67) 4-Nitroaniline	9.628	138	16738	4.32	ppm		90
69) 4,6-Dinitro-2-methylph...	9.708	198	8516	3.77	ppm		80
70) n-Nitrosodiphenylamine	9.767	169	53872	6.50	ppm		97
71) Diphenylamine	9.767	169	53872	5.42	ppm		97
72) 1,2-Diphenylhydrazine	9.820	77	78959	6.56	ppm		91
74) 4-Bromophenyl-phenylether	10.392	248	20750	5.48	ppm		92
75) Hexachlorobenzene	10.622	284	24118	5.36	ppm		88
76) Simazine	10.712	201	9159	15.84	ppm		91
77) Atrazine	10.798	200	17789	5.23	ppm		88
78) Pentachlorophenol	10.947	266	11789	4.10	ppm		71
79) Phenanthrene	11.183	178	95340	5.98	ppm		91
80) Anthracene	11.263	178	93988	5.77	ppm		94
81) Carbazole	11.589	167	97755	6.00	ppm		95
82) Di-n-butylphthalate	12.443	149	112602	5.50	ppm		95
83) Fluoranthene	13.367	202	101508	5.36	ppm		96
85) Benzidine	13.688	184	22918	1.93	ppm		94
86) Pyrene	13.773	202	106444	5.56	ppm		95
88) Butylbenzylphthalate	15.243	149	43890	4.35	ppm		96
89) 3,3'-Dichlorobenzidine	16.103	252	25899	4.08	ppm		90
90) Benzo[a]anthracene	16.055	228	86709	4.84	ppm		94

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\sl3629\
Data File : L0681697.D
Acq On : 2 Apr 2015 11:14 am
Operator : nareshj
Sample : ic3629-5
Misc : op55410,sl3629,1000,,,1,1,water
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Apr 02 13:45:10 2015
Quant Method : C:\msdchem\1\METHODS\8270da.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Thu Apr 02 13:42:57 2015
Response via : Initial Calibration

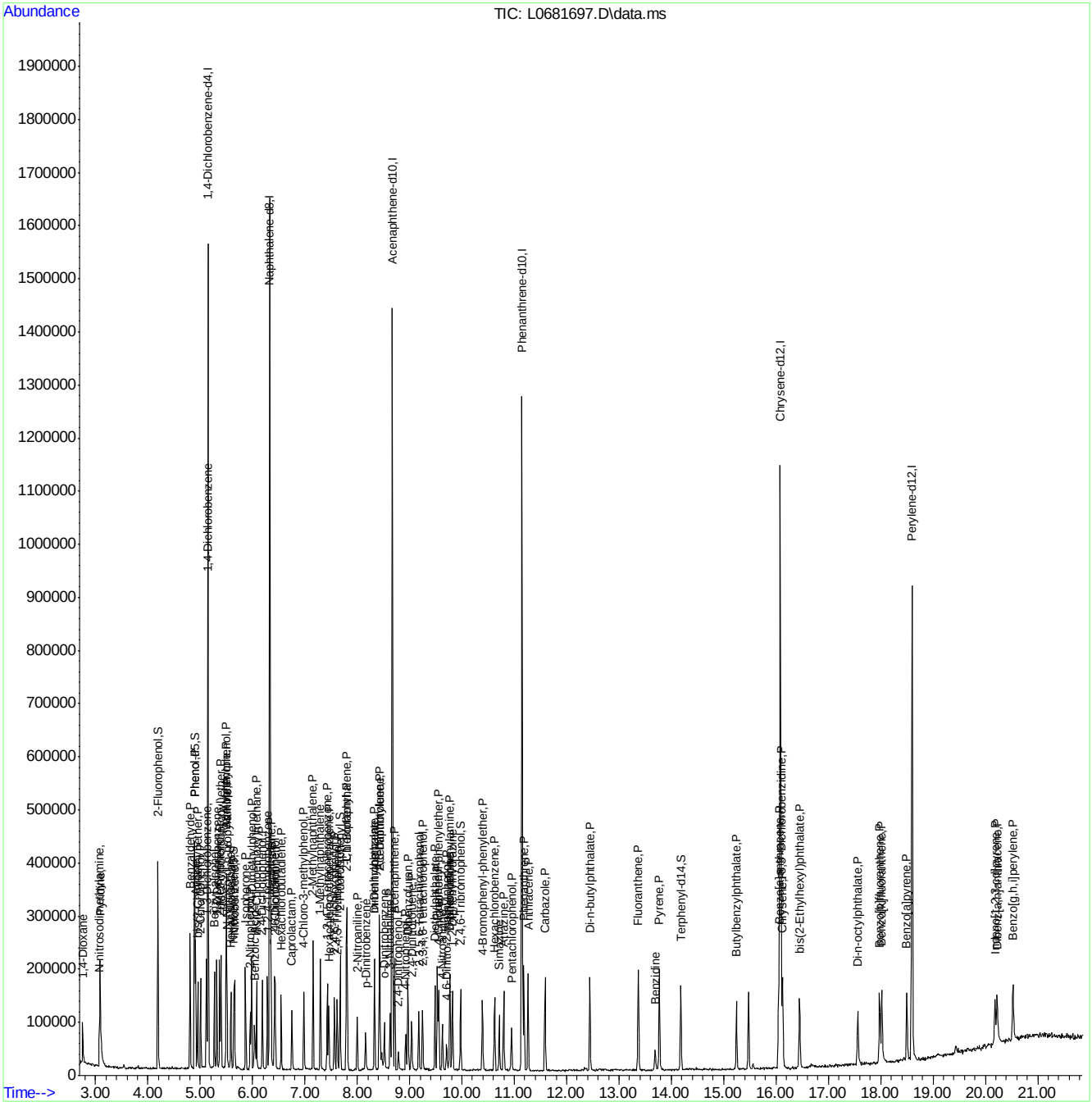
Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
91) Chrysene	16.124	228	69871	4.83 ppm	95
92) bis(2-Ethylhexyl)phtha...	16.450	149	51541	4.30 ppm	91
94) Di-n-octylphthalate	17.561	149	81472	4.48 ppm	97
95) Benzo[b]fluoranthene	17.978	252	73154	4.84 ppm	93
96) Benzo[k]fluoranthene	18.020	252	79834	5.91 ppm	97
97) Benzo[a]pyrene	18.501	252	71244	5.02 ppm	95
98) Indeno[1,2,3-cd]pyrene	20.184	276	48930	4.06 ppm	98
99) Dibenz[a,h]anthracene	20.227	278	53251	4.81 ppm	98
100) Benzo[g,h,i]perylene	20.526	276	59859	4.87 ppm	96

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\sl3629\
Data File : L0681697.D
Acq On : 2 Apr 2015 11:14 am
Operator : nareshj
Sample : ic3629-5
Misc : op55410,sl3629,1000,,,1,1,water
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Apr 02 13:45:10 2015
Quant Method : C:\msdchem\1\METHODS\8270da.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Thu Apr 02 13:42:57 2015
Response via : Initial Calibration



8270da0402.m Fri Apr 03 15:00:14 2015 Page: 4

ACCUTEST LABORATORIES FA23258

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\sl3629\
Data File : L0681698.D
Acq On : 2 Apr 2015 11:41 am
Operator : nareshj
Sample : ic3629-10
Misc : op55410,sl3629,1000,,,1,1,water
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Apr 02 13:45:43 2015
Quant Method : C:\msdchem\1\METHODS\8270da.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Thu Apr 02 13:42:57 2015
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	5.142	152	197429	40.00	ppm	0.00
22) Naphthalene-d8	6.323	136	681456	40.00	ppm	0.00
42) Acenaphthene-d10	8.663	164	390454	40.00	ppm	0.00
68) Phenanthrene-d10	11.142	188	655557	40.00	ppm	0.00
84) Chrysene-d12	16.078	240	586459	40.00	ppm	0.00
93) Perylene-d12	18.594	264	495531	40.00	ppm	0.00

System Monitoring Compounds						
7) 2-Fluorophenol	4.186	112	173024	24.02	ppm	0.00
Spiked Amount 100.000	Range 14 - 67		Recovery = 24.02%			
9) Phenol-d5	4.881	99	182542	21.11	ppm	0.00
Spiked Amount 100.000	Range 10 - 50		Recovery = 21.11%			
23) Nitrobenzene-d5	5.634	82	75919	10.40	ppm	0.00
Spiked Amount 50.000	Range 42 - 108		Recovery = 20.80%#			
46) 2-Fluorobiphenyl	7.664	172	133708	10.68	ppm	0.00
Spiked Amount 50.000	Range 40 - 106		Recovery = 21.36%#			
73) 2,4,6-Tribromophenol	9.966	330	47629	20.07	ppm	-0.02
Spiked Amount 100.000	Range 33 - 118		Recovery = 20.07%#			
87) Terphenyl-d14	14.176	244	132818	9.06	ppm	-0.01
Spiked Amount 50.000	Range 39 - 121		Recovery = 18.12%#			

Target Compounds						Qvalue
2) 1,4-Dioxane	2.749	88	46077	10.56	ppm	97
3) N-nitrosodimethylamine	3.070	42	59102	12.86	ppm	99
4) Pyridine	3.075	79	121346	11.93	ppm	81
5) Benzaldehyde	4.801	106	81608	12.78	ppm	97
6) Aniline	4.907	93	118841	11.42	ppm	86
8) bis(2-Chloroethyl)ether	4.950	93	79092	10.90	ppm	93
10) Phenol	4.891	94	114368	11.97	ppm	96
11) 2-Chlorophenol	5.004	128	71946	10.56	ppm	96
12) 1,3-Dichlorobenzene	5.116	146	82353	11.04	ppm	96
13) 1,4-Dichlorobenzene	5.158	146	74388	10.61	ppm	94
14) 1,2-Dichlorobenzene	5.313	146	75839	10.96	ppm	99
15) Benzyl alcohol	5.265	108	48618	9.62	ppm	94
16) bis(2-chloroisopropyl)...	5.393	45	153081	12.73	ppm	90
17) 2-Methylphenol	5.372	108	66987	10.27	ppm	99
18) Acetophenone	5.495	105	100230	11.20	ppm	94
19) Hexachloroethane	5.580	117	29777	10.45	ppm	87
20) N-Nitroso-di-n-propyla...	5.511	70	48594	10.74	ppm	96
21) 3&4-Methylphenol	5.490	108	72434	10.34	ppm	93
24) Nitrobenzene	5.650	77	77126	11.05	ppm	91
25) Isophorone	5.858	82	144092	10.55	ppm	88
26) 2-Nitrophenol	5.954	139	33829	9.03	ppm	95
27) 2,4-Dimethylphenol	5.976	107	66390	10.35	ppm	89
28) bis(2-Chloroethoxy)met...	6.072	93	90410	10.85	ppm	95
29) Benzoic Acid	6.045	105	47639	10.74	ppm	97
30) 2,4-Dichlorophenol	6.184	162	54059	9.72	ppm	96
31) 1,2,4-Trichlorobenzene	6.280	180	63988	9.94	ppm	95
33) Naphthalene	6.344	128	183589	11.28	ppm	93
34) 4-Chloroaniline	6.414	127	84232	10.30	ppm	98

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\sl3629\
Data File : L0681698.D
Acq On : 2 Apr 2015 11:41 am
Operator : nareshj
Sample : ic3629-10
Misc : op55410,sl3629,1000,,,1,1,water
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Apr 02 13:45:43 2015
Quant Method : C:\msdchem\1\METHODS\8270da.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Thu Apr 02 13:42:57 2015
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
35) 2,6-Dichlorophenol	6.430	162	51990	9.72	ppm		97
36) Hexachlorobutadiene	6.542	225	31958	9.65	ppm		90
37) Caprolactam	6.750	113	22217	9.19	ppm		86
38) 4-Chloro-3-methylphenol	6.975	107	58958	9.65	ppm		97
39) 2-Methylnaphthalene	7.151	142	142526	10.80	ppm		97
40) 1-Methylnaphthalene	7.290	142	118511	9.87	ppm		99
41) 1,2,4,5-Tetrachloroben...	7.423	216	59259	9.57	ppm		98
43) Hexachlorocyclopentadiene	7.456	237	36030	9.68	ppm		99
44) 2,4,6-Trichlorophenol	7.557	196	37365	9.27	ppm		99
45) 2,4,5-Trichlorophenol	7.610	196	41610	9.99	ppm		98
47) 1,1'-Biphenyl	7.787	154	159795	11.23	ppm		93
48) 2-Chloronaphthalene	7.803	162	114914	10.75	ppm		95
49) 2-Nitroaniline	7.990	65	38102	9.52	ppm		88
50) p-Dinitrobenzene	8.155	75	24908	9.33	ppm		88
51) Acenaphthylene	8.422	152	196598	11.40	ppm		91
52) Dimethylphthalate	8.321	163	133394	10.55	ppm		98
53) m-Dinitrobenzene	8.326	168	20312	8.49	ppm	#	52
54) 2,6-Dinitrotoluene	8.417	165	28328	9.09	ppm	#	63
55) o-Dinitrobenzene	8.513	50	23661	10.78	ppm		89
56) Acenaphthene	8.711	153	110698	10.32	ppm		97
57) 3-Nitroaniline	8.620	138	37746	9.53	ppm		98
58) 2,4-Dinitrophenol	8.780	184	11906	6.55	ppm		80
59) Dibenzofuran	8.962	168	168219	11.15	ppm		96
60) 2,4-Dinitrotoluene	9.031	165	36504	9.02	ppm		93
61) 4-Nitrophenol	8.919	109	14452	9.29	ppm	#	81
62) 2,3,5,6-Tetrachlorophenol	9.170	232	34175	9.14	ppm		95
63) 2,3,4,6-Tetrachlorophenol	9.245	232	36352	10.09	ppm		96
64) Fluorene	9.528	166	136210	10.81	ppm		99
65) 4-Chlorophenyl-phenyle...	9.555	204	58453	10.22	ppm		91
66) Diethylphthalate	9.480	149	131513	10.18	ppm		93
67) 4-Nitroaniline	9.624	138	35774	9.51	ppm		97
69) 4,6-Dinitro-2-methylph...	9.705	198	19316	8.49	ppm		90
70) n-Nitrosodiphenylamine	9.763	169	106320	12.74	ppm		96
71) Diphenylamine	9.763	169	106320	10.62	ppm		96
72) 1,2-Diphenylhydrazine	9.811	77	148427	12.24	ppm		86
74) 4-Bromophenyl-phenylether	10.383	248	36247	9.50	ppm		98
75) Hexachlorobenzene	10.618	284	45988	10.15	ppm		97
76) Simazine	10.709	201	17665	30.32	ppm		97
77) Atrazine	10.794	200	34672	10.12	ppm		90
78) Pentachlorophenol	10.944	266	25723	8.87	ppm		99
79) Phenanthrene	11.179	178	178886	11.14	ppm		94
80) Anthracene	11.259	178	178683	10.90	ppm		95
81) Carbazole	11.580	167	182249	11.10	ppm		96
82) Di-n-butylphthalate	12.434	149	224213	10.87	ppm		95
83) Fluoranthene	13.364	202	196873	10.32	ppm		93
85) Benzidine	13.684	184	92213	7.49	ppm		92
86) Pyrene	13.765	202	205370	10.35	ppm		97
88) Butylbenzylphthalate	15.239	149	89543	8.56	ppm		95
89) 3,3'-Dichlorobenzidine	16.099	252	52854	8.04	ppm		98
90) Benzo[a]anthracene	16.046	228	169362	9.12	ppm		96

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\sl3629\
Data File : L0681698.D
Acq On : 2 Apr 2015 11:41 am
Operator : nareshj
Sample : ic3629-10
Misc : op55410,sl3629,1000,,,1,1,water
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Apr 02 13:45:43 2015
Quant Method : C:\msdchem\1\METHODS\8270da.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Thu Apr 02 13:42:57 2015
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
91) Chrysene	16.120	228	139728	9.33 ppm	98
92) bis(2-Ethylhexyl)phtha...	16.441	149	105935	8.53 ppm	95
94) Di-n-octylphthalate	17.552	149	176882	9.38 ppm	94
95) Benzo[b]fluoranthene	17.974	252	152036	9.69 ppm	95
96) Benzo[k]fluoranthene	18.017	252	154531	11.02 ppm	92
97) Benzo[a]pyrene	18.492	252	147427	10.01 ppm	96
98) Indeno[1,2,3-cd]pyrene	20.180	276	103492	8.28 ppm	98
99) Dibenz[a,h]anthracene	20.223	278	104351	9.07 ppm	99
100) Benzo[g,h,i]perylene	20.522	276	117881	9.24 ppm	97

(#) = qualifier out of range (m) = manual integration (+) = signals summed

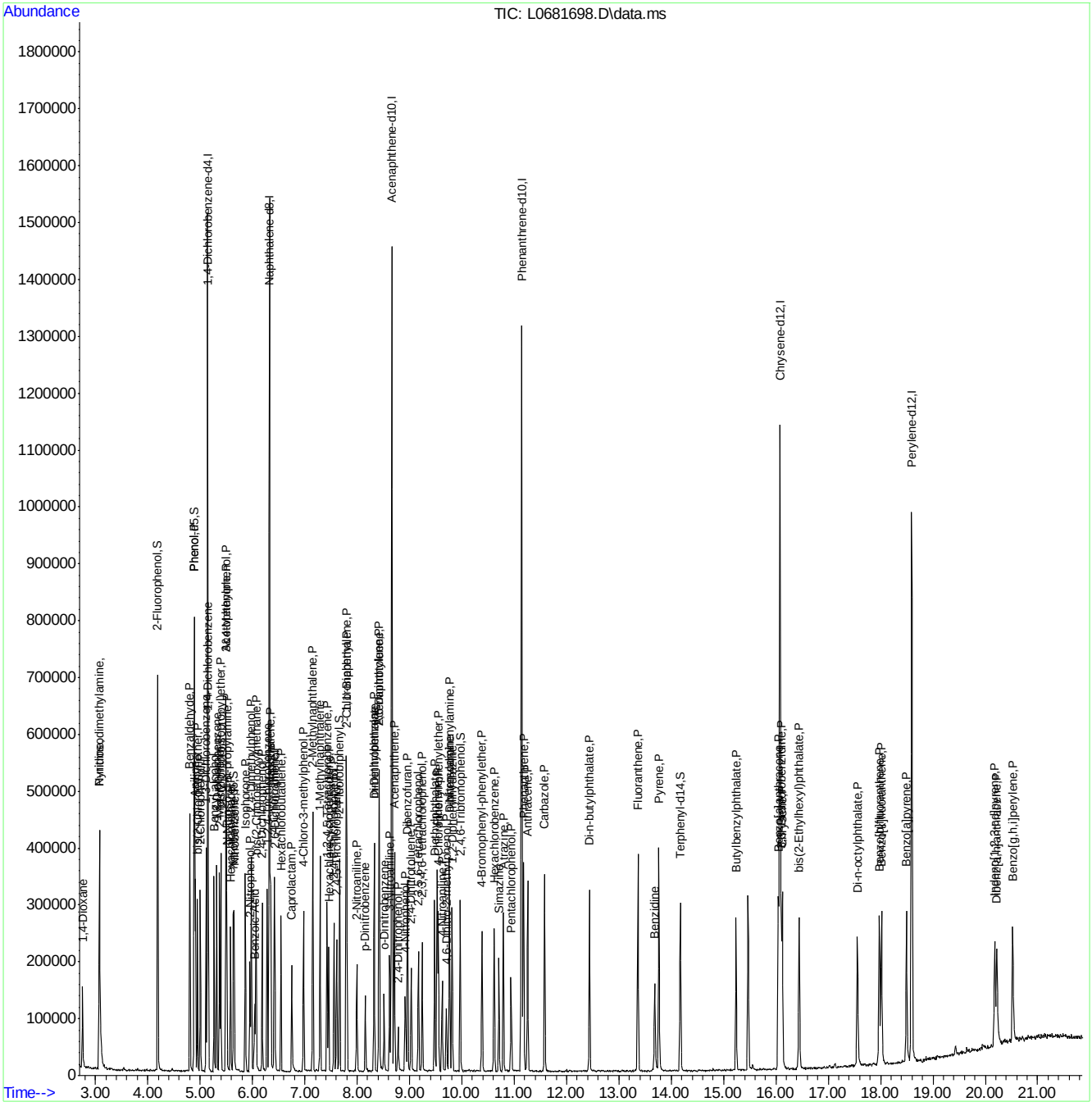
7.6.2

7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\sl3629\
Data File : L0681698.D
Acq On : 2 Apr 2015 11:41 am
Operator : nareshj
Sample : ic3629-10
Misc : op55410,sl3629,1000,,,1,1,water
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Apr 02 13:45:43 2015
Quant Method : C:\msdchem\1\METHODS\8270da.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Thu Apr 02 13:42:57 2015
Response via : Initial Calibration



ACCUTEST LABORATORIES FA23258

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\sl3629\
Data File : L0681699.D
Acq On : 2 Apr 2015 12:08 pm
Operator : nareshj
Sample : ic3629-25
Misc : op55410,sl3629,1000,,,1,1,water
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Apr 02 13:46:04 2015
Quant Method : C:\msdchem\1\METHODS\8270da.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Thu Apr 02 13:42:57 2015
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	5.146	152	256016	40.00 ppm	0.00
22) Naphthalene-d8	6.327	136	874703	40.00 ppm	0.00
42) Acenaphthene-d10	8.667	164	506435	40.00 ppm	0.00
68) Phenanthrene-d10	11.145	188	827898	40.00 ppm	0.00
84) Chrysene-d12	16.081	240	716606	40.00 ppm	0.00
93) Perylene-d12	18.598	264	617733	40.00 ppm	0.00
System Monitoring Compounds					
7) 2-Fluorophenol	4.190	112	514313	55.07 ppm	0.00
Spiked Amount 100.000	Range 14 - 67		Recovery = 55.07%		
9) Phenol-d5	4.884	99	548367	48.89 ppm	0.00
Spiked Amount 100.000	Range 10 - 50		Recovery = 48.89%		
23) Nitrobenzene-d5	5.638	82	243282	25.96 ppm	0.00
Spiked Amount 50.000	Range 42 - 108		Recovery = 51.92%		
46) 2-Fluorobiphenyl	7.668	172	414448	25.52 ppm	0.00
Spiked Amount 50.000	Range 40 - 106		Recovery = 51.04%		
73) 2,4,6-Tribromophenol	9.975	330	164320	54.84 ppm	0.00
Spiked Amount 100.000	Range 33 - 118		Recovery = 54.84%		
87) Terphenyl-d14	14.174	244	433713	24.22 ppm	-0.01
Spiked Amount 50.000	Range 39 - 121		Recovery = 48.44%		

Target Compounds					Qvalue
2) 1,4-Dioxane	2.748	88	144618	25.57 ppm	96
3) N-nitrosodimethylamine	3.068	42	182764	30.66 ppm	86
4) Pyridine	3.068	79	364797	27.66 ppm	81
5) Benzaldehyde	4.804	106	239757	28.95 ppm	97
6) Aniline	4.911	93	353336	26.18 ppm	87
8) bis(2-Chloroethyl)ether	4.948	93	245573	26.11 ppm	92
10) Phenol	4.895	94	335690	27.09 ppm	98
11) 2-Chlorophenol	5.002	128	224392	25.40 ppm	93
12) 1,3-Dichlorobenzene	5.114	146	252278	26.09 ppm	99
13) 1,4-Dichlorobenzene	5.157	146	237496	26.12 ppm	98
14) 1,2-Dichlorobenzene	5.312	146	231995	25.85 ppm	98
15) Benzyl alcohol	5.264	108	169741	25.89 ppm	96
16) bis(2-chloroisopropyl)...	5.397	45	447993	28.72 ppm	94
17) 2-Methylphenol	5.370	108	222967	26.36 ppm	98
18) Acetophenone	5.499	105	314255	27.07 ppm	98
19) Hexachloroethane	5.584	117	95188	25.75 ppm	89
20) N-Nitroso-di-n-propyla...	5.515	70	158248	26.96 ppm	94
21) 3&4-Methylphenol	5.493	108	236420	26.03 ppm	100
24) Nitrobenzene	5.654	77	243100	27.13 ppm	94
25) Isophorone	5.862	82	467017	26.65 ppm	92
26) 2-Nitrophenol	5.953	139	120905	25.14 ppm	93
27) 2,4-Dimethylphenol	5.979	107	217938	26.46 ppm	90
28) bis(2-Chloroethoxy)met...	6.070	93	275929	25.80 ppm	97
29) Benzoic Acid	6.070	105	174436	30.63 ppm	98
30) 2,4-Dichlorophenol	6.183	162	180415	25.26 ppm	98
31) 1,2,4-Trichlorobenzene	6.279	180	202689	24.53 ppm	98
33) Naphthalene	6.348	128	554966	26.56 ppm	96
34) 4-Chloroaniline	6.418	127	271083	25.83 ppm	98

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\sl3629\
Data File : L0681699.D
Acq On : 2 Apr 2015 12:08 pm
Operator : nareshj
Sample : ic3629-25
Misc : op55410,sl3629,1000,,,1,1,water
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Apr 02 13:46:04 2015
Quant Method : C:\msdchem\1\METHODS\8270da.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Thu Apr 02 13:42:57 2015
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
35) 2,6-Dichlorophenol	6.428	162	168428	24.53	ppm		98
36) Hexachlorobutadiene	6.546	225	101231	23.82	ppm		97
37) Caprolactam	6.775	113	75432	24.30	ppm		97
38) 4-Chloro-3-methylphenol	6.978	107	201366	25.68	ppm		99
39) 2-Methylnaphthalene	7.149	142	436177	25.75	ppm		99
40) 1-Methylnaphthalene	7.294	142	377762	24.51	ppm		99
41) 1,2,4,5-Tetrachloroben...	7.427	216	184755	23.24	ppm		99
43) Hexachlorocyclopentadiene	7.454	237	122389	25.36	ppm		98
44) 2,4,6-Trichlorophenol	7.561	196	132071	25.26	ppm		97
45) 2,4,5-Trichlorophenol	7.614	196	133807	24.76	ppm		99
47) 1,1'-Biphenyl	7.790	154	504422	27.33	ppm		98
48) 2-Chloronaphthalene	7.801	162	358229	25.84	ppm		97
49) 2-Nitroaniline	7.993	65	138372	26.66	ppm		93
50) p-Dinitrobenzene	8.159	75	91250	26.34	ppm		96
51) Acenaphthylene	8.421	152	600061	26.82	ppm		96
52) Dimethylphthalate	8.325	163	430967	26.28	ppm		99
53) m-Dinitrobenzene	8.335	168	77201	24.87	ppm		95
54) 2,6-Dinitrotoluene	8.421	165	102774	25.44	ppm		87
55) o-Dinitrobenzene	8.517	50	75686	26.59	ppm		94
56) Acenaphthene	8.715	153	350962	25.21	ppm		97
57) 3-Nitroaniline	8.624	138	129465	25.19	ppm		96
58) 2,4-Dinitrophenol	8.784	184	58675	24.89	ppm		91
59) Dibenzofuran	8.966	168	517019	26.43	ppm		96
60) 2,4-Dinitrotoluene	9.035	165	127791	24.35	ppm		93
61) 4-Nitrophenol	8.918	109	52407	25.97	ppm	#	78
62) 2,3,5,6-Tetrachlorophenol	9.169	232	120512	24.86	ppm		98
63) 2,3,4,6-Tetrachlorophenol	9.244	232	114939	24.60	ppm		94
64) Fluorene	9.527	166	419955	25.70	ppm		98
65) 4-Chlorophenyl-phenyle...	9.553	204	176909	23.84	ppm		98
66) Diethylphthalate	9.484	149	413621	24.68	ppm		96
67) 4-Nitroaniline	9.634	138	117828	24.15	ppm		94
69) 4,6-Dinitro-2-methylph...	9.708	198	73914	25.72	ppm		86
70) n-Nitrosodiphenylamine	9.767	169	334821	31.78	ppm		97
71) Diphenylamine	9.767	169	334821	26.48	ppm		97
72) 1,2-Diphenylhydrazine	9.815	77	451555	29.48	ppm		90
74) 4-Bromophenyl-phenylether	10.387	248	127120	26.37	ppm		96
75) Hexachlorobenzene	10.622	284	150411	26.29	ppm		96
76) Simazine	10.718	201	59380	80.72	ppm		99
77) Atrazine	10.798	200	111568	25.78	ppm		92
78) Pentachlorophenol	10.942	266	94104	25.71	ppm		98
79) Phenanthrene	11.183	178	566586	27.94	ppm		96
80) Anthracene	11.258	178	573581	27.70	ppm		97
81) Carbazole	11.583	167	580357	28.00	ppm		98
82) Di-n-butylphthalate	12.438	149	729455	28.00	ppm		98
83) Fluoranthene	13.368	202	649958	26.99	ppm		98
85) Benzidine	13.683	184	344567	22.90	ppm		98
86) Pyrene	13.768	202	599110	24.71	ppm		98
88) Butylbenzylphthalate	15.237	149	305042	23.85	ppm		91
89) 3,3'-Dichlorobenzidine	16.103	252	185800	23.13	ppm		97
90) Benzo[a]anthracene	16.049	228	555230	24.47	ppm		99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\sl3629\
Data File : L0681699.D
Acq On : 2 Apr 2015 12:08 pm
Operator : nareshj
Sample : ic3629-25
Misc : op55410,sl3629,1000,,,1,1,water
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Apr 02 13:46:04 2015
Quant Method : C:\msdchem\1\METHODS\8270da.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Thu Apr 02 13:42:57 2015
Response via : Initial Calibration

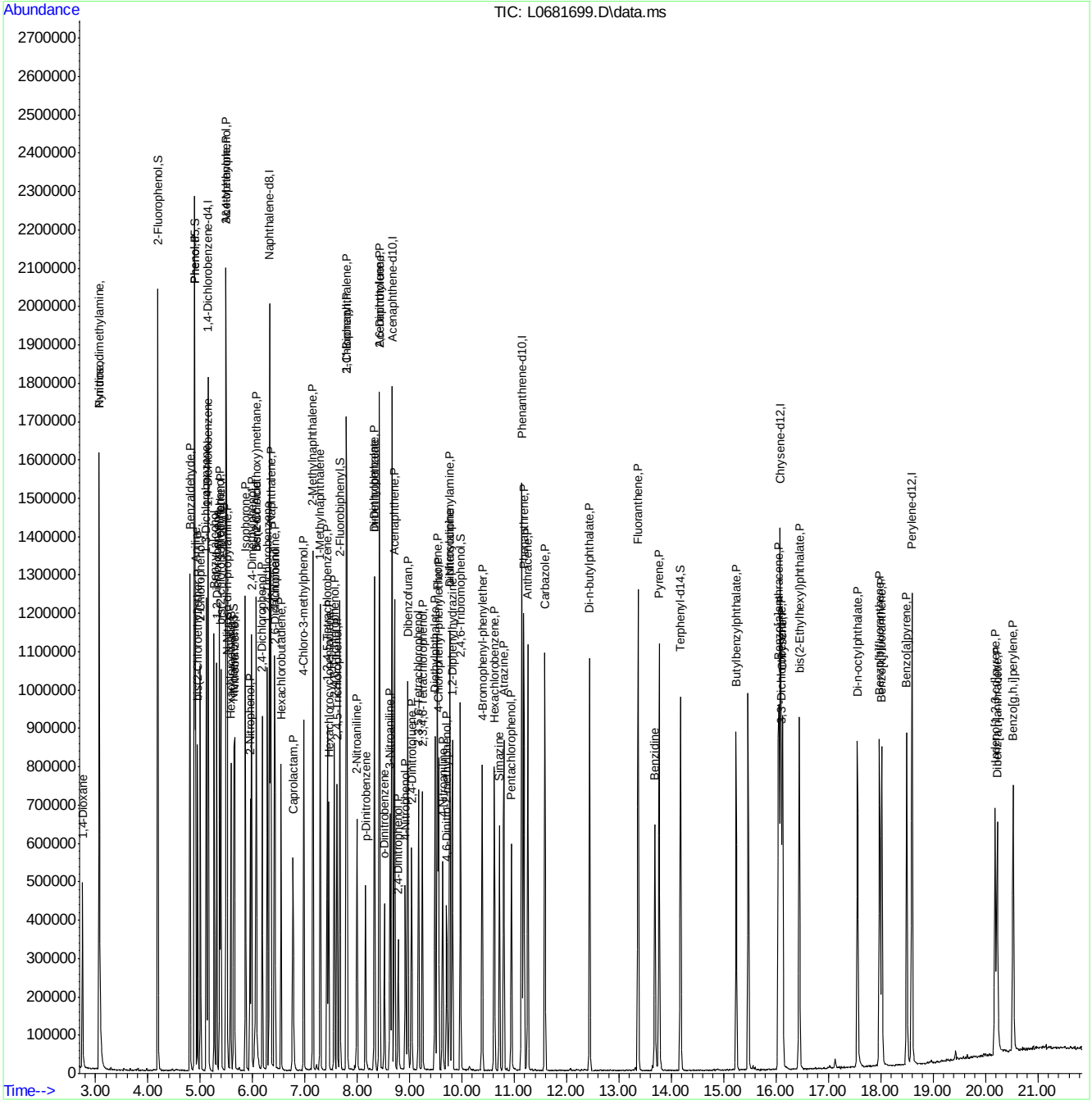
Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
91) Chrysene	16.130	228	431007	23.55 ppm	98
92) bis(2-Ethylhexyl)phtha...	16.445	149	370479	24.41 ppm	97
94) Di-n-octylphthalate	17.556	149	627580	26.70 ppm	97
95) Benzo[b]fluoranthene	17.983	252	506040	25.87 ppm	96
96) Benzo[k]fluoranthene	18.021	252	461918	26.42 ppm	98
97) Benzo[a]pyrene	18.501	252	483132	26.32 ppm	97
98) Indeno[1,2,3-cd]pyrene	20.190	276	370555	23.78 ppm	91
99) Dibenz[a,h]anthracene	20.227	278	351339	24.51 ppm	98
100) Benzo[g,h,i]perylene	20.531	276	394790	24.83 ppm	98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\sl3629\
Data File : L0681699.D
Acq On : 2 Apr 2015 12:08 pm
Operator : nareshj
Sample : ic3629-25
Misc : op55410,sl3629,1000,,,1,1,water
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Apr 02 13:46:04 2015
Quant Method : C:\msdchem\1\METHODS\8270da.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Thu Apr 02 13:42:57 2015
Response via : Initial Calibration



ACCUTEST LABORATORIES FA23258

Manual Integrations APPROVED (compounds with "m" flag)
Mike Eger
04/06/15 16:19

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\sl3629\
Data File : L0681700.D
Acq On : 2 Apr 2015 12:36 pm
Operator : nareshj
Sample : icc3629-50
Misc : op55410,sl3629,1000,,,1,1,water
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Apr 02 13:44:48 2015
Quant Method : C:\msdchem\1\METHODS\8270da.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Thu Apr 02 13:42:57 2015
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	5.145	152	217958	40.00	ppm	0.00
22) Naphthalene-d8	6.325	136	795807	40.00	ppm	0.00
42) Acenaphthene-d10	8.665	164	462211	40.00	ppm	0.00
68) Phenanthrene-d10	11.144	188	799313	40.00	ppm	0.00
84) Chrysene-d12	16.085	240	644669	40.00	ppm	0.00
93) Perylene-d12	18.601	264	569020	40.00	ppm	0.00

System Monitoring Compounds

7) 2-Fluorophenol	4.188	112	833002	104.76	ppm	0.00
Spiked Amount 100.000	Range 14 - 67		Recovery = 104.76%#			
9) Phenol-d5	4.888	99	906306	94.92	ppm	0.00
Spiked Amount 100.000	Range 10 - 50		Recovery = 94.92%#			
23) Nitrobenzene-d5	5.636	82	443183	51.97	ppm	0.00
Spiked Amount 50.000	Range 42 - 108		Recovery = 103.94%			
46) 2-Fluorobiphenyl	7.671	172	742733	50.11	ppm	0.00
Spiked Amount 50.000	Range 40 - 106		Recovery = 100.22%			
73) 2,4,6-Tribromophenol	9.979	330	297744	102.92	ppm	0.00
Spiked Amount 100.000	Range 33 - 118		Recovery = 102.92%			
87) Terphenyl-d14	14.178	244	787818	48.90	ppm	0.00
Spiked Amount 50.000	Range 39 - 121		Recovery = 97.80%			

Target Compounds

						Qvalue
2) 1,4-Dioxane	2.746	88	243614	50.59	ppm	100
3) N-nitrosodimethylamine	3.067	42	284414	56.04	ppm	82
4) Pyridine	3.072	79	592210	52.75	ppm	85
5) Benzaldehyde	4.803	106	405972	57.57	ppm	95
6) Aniline	4.915	93	614041	53.43	ppm	86
8) bis(2-Chloroethyl)ether	4.952	93	429105	53.59	ppm	97
10) Phenol	4.899	94	568746	53.91	ppm	96
11) 2-Chlorophenol	5.006	128	392283	52.16	ppm	97
12) 1,3-Dichlorobenzene	5.118	146	435243	52.87	ppm	99
13) 1,4-Dichlorobenzene	5.161	146	416021	53.74	ppm	99
14) 1,2-Dichlorobenzene	5.316	146	399905	52.33	ppm	99
15) Benzyl alcohol	5.268	108	315120	56.47	ppm	98
16) bis(2-chloroisopropyl)...	5.396	45	744926	56.09	ppm	96
17) 2-Methylphenol	5.374	108	397068	55.14	ppm	99
18) Acetophenone	5.503	105	554426	56.10	ppm	100
19) Hexachloroethane	5.583	117	170610	54.21	ppm	86
20) N-Nitroso-di-n-propyla...	5.519	70	291914	58.42	ppm	96
21) 3&4-Methylphenol	5.497	108	431596	55.82	ppm	99
24) Nitrobenzene	5.657	77	430800	52.84	ppm	95
25) Isophorone	5.866	82	821492	51.52	ppm	98
26) 2-Nitrophenol	5.957	139	231322	52.86	ppm	97
27) 2,4-Dimethylphenol	5.983	107	383290	51.16	ppm	98
28) bis(2-Chloroethoxy)met...	6.074	93	503664	51.75	ppm	99
29) Benzoic Acid	6.096	105	347551m	67.07	ppm	
30) 2,4-Dichlorophenol	6.186	162	329441	50.71	ppm	99
31) 1,2,4-Trichlorobenzene	6.283	180	368583	49.03	ppm	99
33) Naphthalene	6.352	128	973290	51.20	ppm	99
34) 4-Chloroaniline	6.421	127	515933	54.03	ppm	99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\sl3629\
Data File : L0681700.D
Acq On : 2 Apr 2015 12:36 pm
Operator : nareshj
Sample : icc3629-50
Misc : op55410,sl3629,1000,,,1,1,water
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Apr 02 13:44:48 2015
Quant Method : C:\msdchem\1\METHODS\8270da.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Thu Apr 02 13:42:57 2015
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
35) 2,6-Dichlorophenol	6.432	162	315715	50.53	ppm	98
36) Hexachlorobutadiene	6.544	225	189208	48.93	ppm	99
37) Caprolactam	6.795	113	150205	53.19	ppm	89
38) 4-Chloro-3-methylphenol	6.977	107	373076	52.30	ppm	99
39) 2-Methylnaphthalene	7.153	142	765483	49.67	ppm	98
40) 1-Methylnaphthalene	7.292	142	676976	48.28	ppm	99
41) 1,2,4,5-Tetrachloroben...	7.426	216	348320	48.15	ppm	97
43) Hexachlorocyclopentadiene	7.458	237	230328	52.29	ppm	99
44) 2,4,6-Trichlorophenol	7.565	196	250923	52.57	ppm	98
45) 2,4,5-Trichlorophenol	7.613	196	259743	52.66	ppm	96
47) 1,1'-Biphenyl	7.794	154	858888	50.99	ppm	100
48) 2-Chloronaphthalene	7.805	162	649881	51.36	ppm	99
49) 2-Nitroaniline	7.997	65	266252	56.22	ppm	96
50) p-Dinitrobenzene	8.163	75	178936	56.60	ppm	96
51) Acenaphthylene	8.430	152	1030694	50.48	ppm	99
52) Dimethylphthalate	8.334	163	752461	50.28	ppm	100
53) m-Dinitrobenzene	8.339	168	143998	50.83	ppm	91
54) 2,6-Dinitrotoluene	8.425	165	189176	51.30	ppm	88
55) o-Dinitrobenzene	8.526	50	140170	53.96	ppm	93
56) Acenaphthene	8.719	153	655903	51.63	ppm	99
57) 3-Nitroaniline	8.633	138	245768	52.40	ppm	97
58) 2,4-Dinitrophenol	8.788	184	124112	57.68	ppm	93
59) Dibenzofuran	8.970	168	903386	50.60	ppm	99
60) 2,4-Dinitrotoluene	9.044	165	247114	51.59	ppm	96
61) 4-Nitrophenol	8.927	109	100906	54.78	ppm	88
62) 2,3,5,6-Tetrachlorophenol	9.173	232	226835	51.27	ppm	97
63) 2,3,4,6-Tetrachlorophenol	9.247	232	214905	50.40	ppm	95
64) Fluorene	9.536	166	753677	50.54	ppm	99
65) 4-Chlorophenyl-phenyle...	9.557	204	332422	49.08	ppm	98
66) Diethylphthalate	9.493	149	773135	50.55	ppm	99
67) 4-Nitroaniline	9.643	138	233508	52.44	ppm	98
69) 4,6-Dinitro-2-methylph...	9.718	198	152618	55.01	ppm	88
70) n-Nitrosodiphenylamine	9.776	169	615322	60.49	ppm	96
71) Diphenylamine	9.776	169	615322	50.41	ppm	96
72) 1,2-Diphenylhydrazine	9.819	77	784971	53.09	ppm	96
74) 4-Bromophenyl-phenylether	10.391	248	235690	50.65	ppm	97
75) Hexachlorobenzene	10.620	284	269548	48.80	ppm	97
76) Simazine	10.733	201	111816	157.43	ppm	95
77) Atrazine	10.813	200	202979	48.59	ppm	98
78) Pentachlorophenol	10.952	266	180368	51.03	ppm	97
79) Phenanthrene	11.187	178	1021456	52.18	ppm	99
80) Anthracene	11.267	178	1027863	51.41	ppm	99
81) Carbazole	11.593	167	1018934	50.91	ppm	98
82) Di-n-butylphthalate	12.442	149	1237687	49.21	ppm	99
83) Fluoranthene	13.372	202	1161592	49.96	ppm	99
85) Benzidine	13.692	184	688008	50.82	ppm	98
86) Pyrene	13.772	202	1087039	49.83	ppm	98
88) Butylbenzylphthalate	15.241	149	581377	50.54	ppm	96
89) 3,3'-Dichlorobenzidine	16.107	252	373691	51.72	ppm	97
90) Benzo[a]anthracene	16.053	228	1014016	49.69	ppm	99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\sl3629\
Data File : L0681700.D
Acq On : 2 Apr 2015 12:36 pm
Operator : nareshj
Sample : icc3629-50
Misc : op55410,sl3629,1000,,,1,1,water
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Apr 02 13:44:48 2015
Quant Method : C:\msdchem\1\METHODS\8270da.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Thu Apr 02 13:42:57 2015
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
91) Chrysene	16.133	228	814597	49.48 ppm	100
92) bis(2-Ethylhexyl)phtha...	16.443	149	666714	48.82 ppm	97
94) Di-n-octylphthalate	17.560	149	1158179	53.50 ppm	98
95) Benzo[b]fluoranthene	17.987	252	942894	52.32 ppm	99
96) Benzo[k]fluoranthene	18.030	252	817571	50.77 ppm	99
97) Benzo[a]pyrene	18.505	252	875481	51.78 ppm	98
98) Indeno[1,2,3-cd]pyrene	20.193	276	728193	50.73 ppm	99
99) Dibenz[a,h]anthracene	20.236	278	641862	48.61 ppm	99
100) Benzo[g,h,i]perylene	20.541	276	735933	50.24 ppm	98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

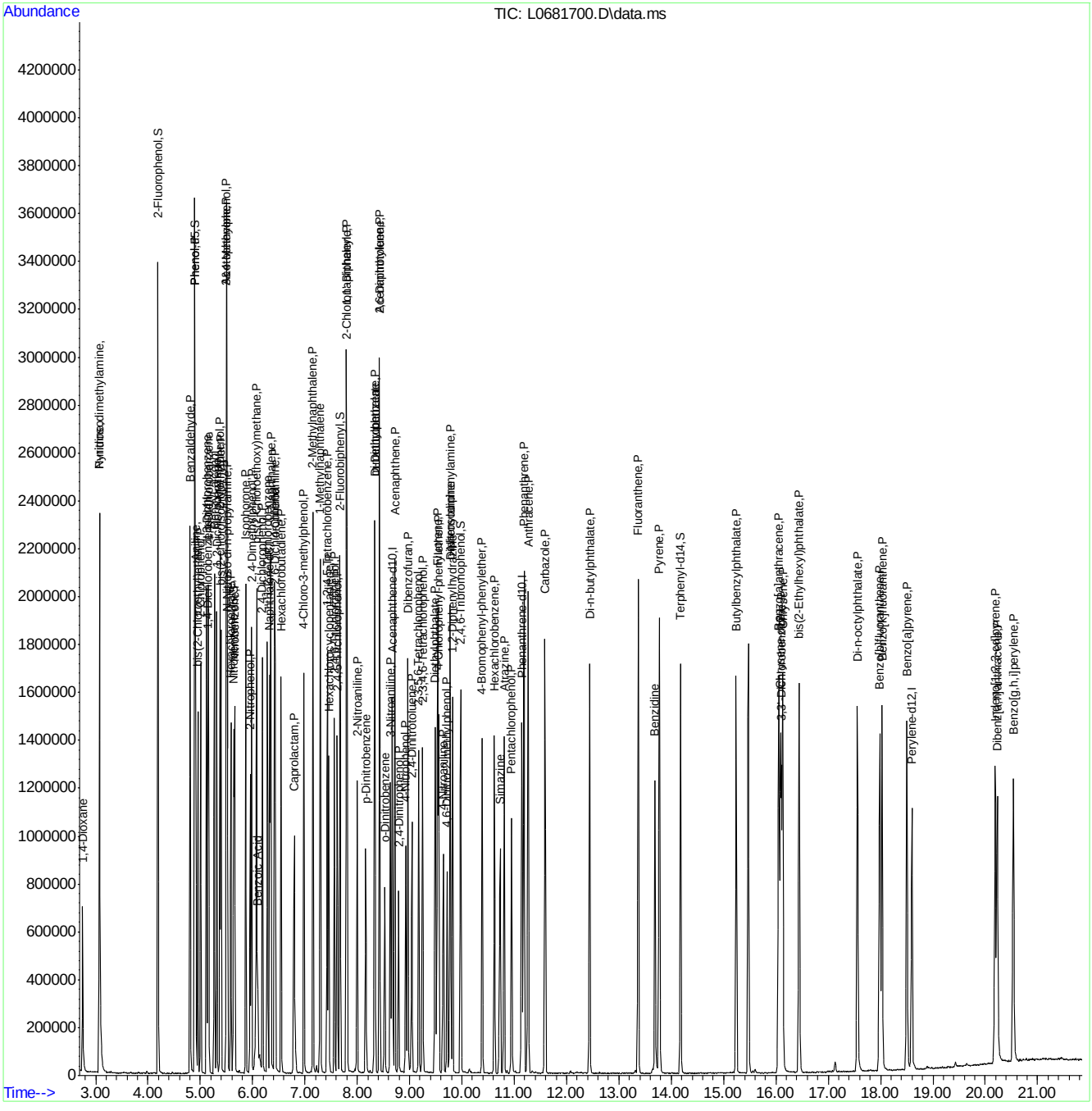
7.6.4

7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\sl3629\
Data File : L0681700.D
Acq On : 2 Apr 2015 12:36 pm
Operator : nareshj
Sample : icc3629-50
Misc : op55410,sl3629,1000,,,1,1,water
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Apr 02 13:44:48 2015
Quant Method : C:\msdchem\1\METHODS\8270da.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Thu Apr 02 13:42:57 2015
Response via : Initial Calibration



Manual Integration Approval Summary

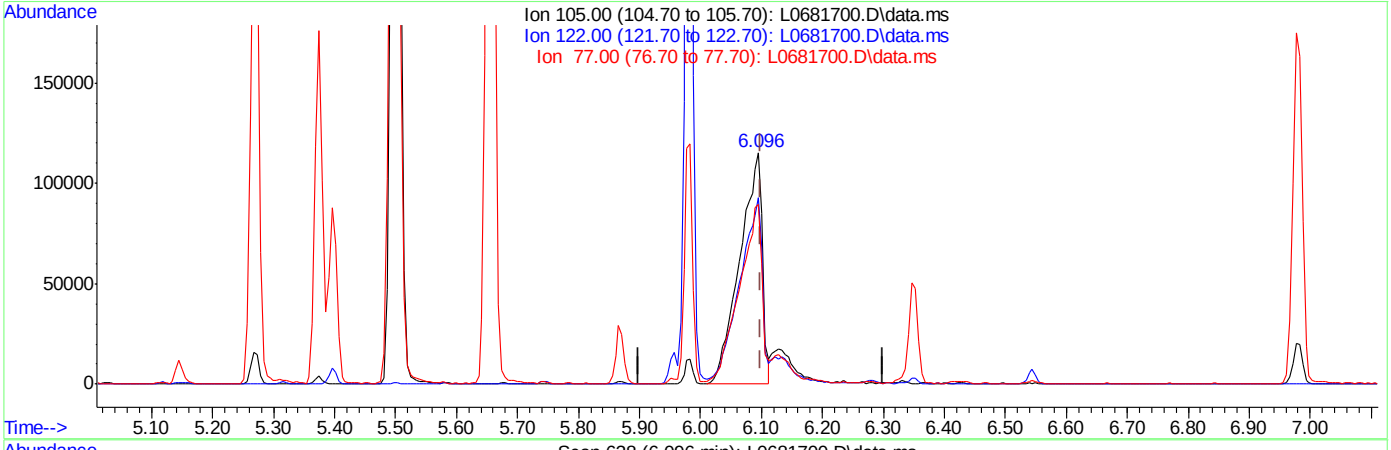
Sample Number:	SL3629-ICC3629	**Method:**	SW846 8270D
Lab FileID:	L0681700.D	**Analyst approved:**	04/06/15 13:56 Martha Valls
Injection Time:	04/02/15 12:36	**Supervisor approved:**	04/06/15 16:19 Mike Eger

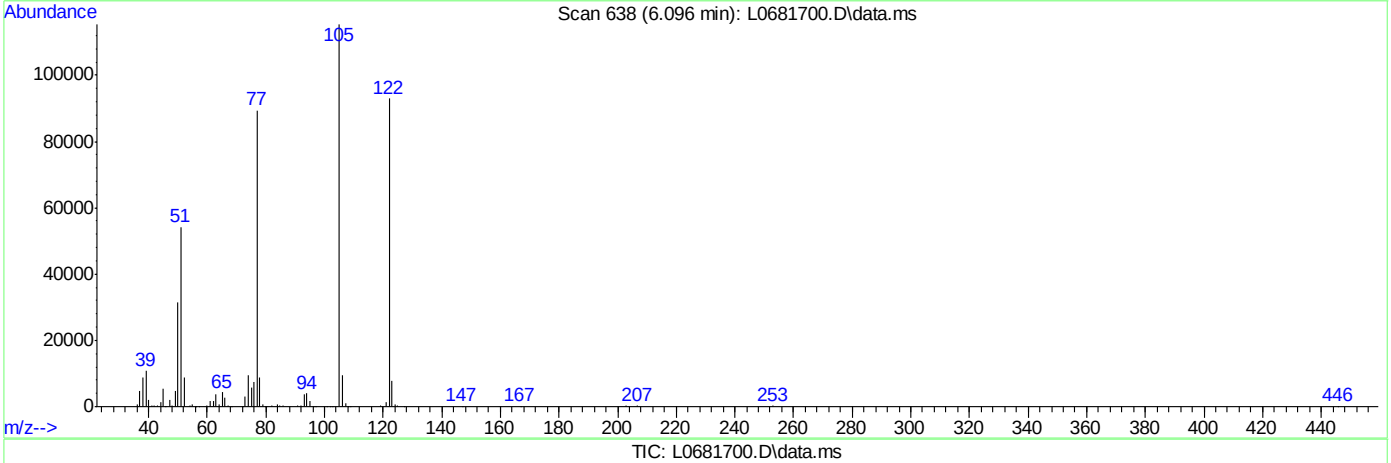
Parameter	CAS	Sig#	R.T. (min.)	Reason
Benzoic Acid	65-85-0		6.10	Split peak

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\sl3629\
Data File : L0681700.D
Acq On : 2 Apr 2015 12:36 pm
Operator : nareshj
Sample : icc3629-50
Misc : op55410,sl3629,1000,,,1,1,water
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Apr 02 13:43:01 2015
Quant Method : C:\msdchem\1\METHODS\8270da.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Thu Apr 02 13:42:57 2015
Response via : Initial Calibration





TIC: L0681700.D\data.ms

(29) Benzoic Acid

6.096min (-0.004) 57.35ppm

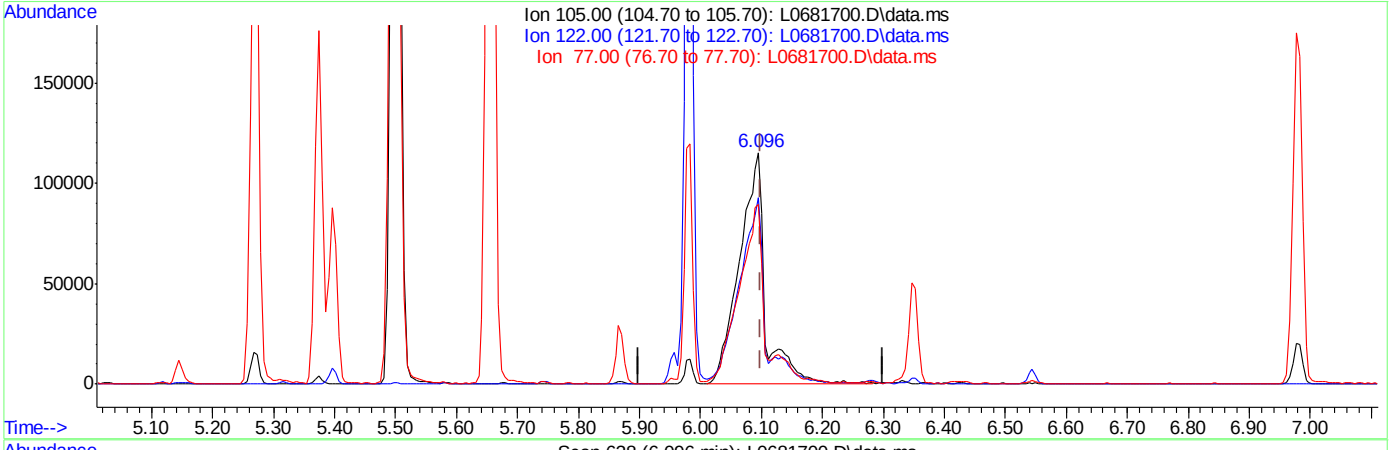
response 297163

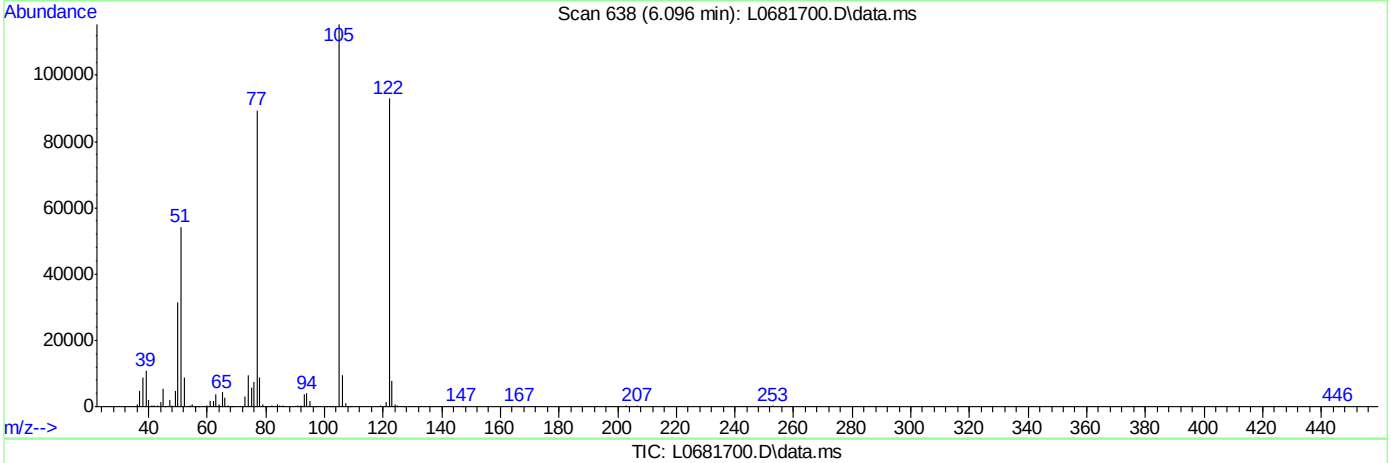
Ion	Exp%	Act%
105.00	100	100
122.00	80.80	79.41
77.00	76.70	75.92
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\sl3629\
Data File : L0681700.D
Acq On : 2 Apr 2015 12:36 pm
Operator : nareshj
Sample : icc3629-50
Misc : op55410,sl3629,1000,,,1,1,water
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Apr 02 13:43:01 2015
Quant Method : C:\msdchem\1\METHODS\8270da.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Thu Apr 02 13:42:57 2015
Response via : Initial Calibration





TIC: L0681700.D\data.ms

(29) Benzoic Acid

6.096min (-0.004) 67.07ppm m

response 347551

Ion	Exp%	Act%
105.00	100	100
122.00	80.80	80.56
77.00	76.70	77.45
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\sl3629\
Data File : L0681701.D
Acq On : 2 Apr 2015 1:03 pm
Operator : nareshj
Sample : ic3629-60
Misc : op55410,sl3629,1000,,,1,1,water
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Apr 02 13:46:46 2015
Quant Method : C:\msdchem\1\METHODS\8270da.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Thu Apr 02 13:42:57 2015
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	5.143	152	200256	40.00 ppm	0.00
22) Naphthalene-d8	6.329	136	669729	40.00 ppm	0.00
42) Acenaphthene-d10	8.669	164	379343	40.00 ppm	0.00
68) Phenanthrene-d10	11.142	188	673047	40.00 ppm	0.00
84) Chrysene-d12	16.084	240	541123	40.00 ppm	0.00
93) Perylene-d12	18.595	264	471163	40.00 ppm	0.00
System Monitoring Compounds					
7) 2-Fluorophenol	4.187	112	885161	121.16 ppm	0.00
Spiked Amount 100.000	Range 14 - 67		Recovery = 121.16%#		
9) Phenol-d5	4.892	99	933240	106.38 ppm	0.00
Spiked Amount 100.000	Range 10 - 50		Recovery = 106.38%#		
23) Nitrobenzene-d5	5.640	82	444669	61.97 ppm	0.00
Spiked Amount 50.000	Range 42 - 108		Recovery = 123.94%#		
46) 2-Fluorobiphenyl	7.670	172	723781	59.50 ppm	0.00
Spiked Amount 50.000	Range 40 - 106		Recovery = 119.00%#		
73) 2,4,6-Tribromophenol	9.978	330	291443	119.65 ppm	0.00
Spiked Amount 100.000	Range 33 - 118		Recovery = 119.65%#		
87) Terphenyl-d14	14.177	244	753444	55.71 ppm	-0.01
Spiked Amount 50.000	Range 39 - 121		Recovery = 111.42%		
Target Compounds					Qvalue
2) 1,4-Dioxane	2.750	88	279435	63.16 ppm	96
3) N-nitrosodimethylamine	3.070	42	302775	64.94 ppm	80
4) Pyridine	3.070	79	636340	61.69 ppm	84
5) Benzaldehyde	4.801	106	387018	59.74 ppm	98
6) Aniline	4.913	93	634537	60.10 ppm	91
8) bis(2-Chloroethyl)ether	4.951	93	439666	59.76 ppm	94
10) Phenol	4.897	94	586251	60.49 ppm	96
11) 2-Chlorophenol	5.004	128	414500	59.98 ppm	97
12) 1,3-Dichlorobenzene	5.116	146	458977	60.68 ppm	96
13) 1,4-Dichlorobenzene	5.159	146	442911	62.27 ppm	100
14) 1,2-Dichlorobenzene	5.314	146	427293	60.86 ppm	98
15) Benzyl alcohol	5.271	108	320845	62.58 ppm	97
16) bis(2-chloroisopropyl)...	5.399	45	766135	62.79 ppm	99
17) 2-Methylphenol	5.373	108	405972	61.37 ppm	99
18) Acetophenone	5.501	105	567972	62.55 ppm	100
19) Hexachloroethane	5.581	117	179663	62.14 ppm	86
20) N-Nitroso-di-n-propyla...	5.517	70	288759	62.89 ppm	93
21) 3&4-Methylphenol	5.496	108	439048	61.81 ppm	97
24) Nitrobenzene	5.656	77	435756	63.50 ppm	98
25) Isophorone	5.870	82	815906	60.80 ppm	98
26) 2-Nitrophenol	5.955	139	233787	63.48 ppm	96
27) 2,4-Dimethylphenol	5.982	107	385139	61.08 ppm	99
28) bis(2-Chloroethoxy)met...	6.073	93	507280	61.94 ppm	99
29) Benzoic Acid	6.099	105	341642	78.34 ppm	100
30) 2,4-Dichlorophenol	6.190	162	331805	60.68 ppm	99
31) 1,2,4-Trichlorobenzene	6.281	180	380142	60.09 ppm	99
33) Naphthalene	6.350	128	983110	61.45 ppm	99
34) 4-Chloroaniline	6.420	127	506485	63.03 ppm	98

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\sl3629\
Data File : L0681701.D
Acq On : 2 Apr 2015 1:03 pm
Operator : nareshj
Sample : ic3629-60
Misc : op55410,sl3629,1000,,,1,1,water
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Apr 02 13:46:46 2015
Quant Method : C:\msdchem\1\METHODS\8270da.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Thu Apr 02 13:42:57 2015
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
35) 2,6-Dichlorophenol	6.430	162	311037	59.15	ppm		98
36) Hexachlorobutadiene	6.543	225	195910	60.20	ppm		98
37) Caprolactam	6.794	113	148148	62.34	ppm		89
38) 4-Chloro-3-methylphenol	6.981	107	359438	59.88	ppm		98
39) 2-Methylnaphthalene	7.152	142	779719	60.12	ppm		98
40) 1-Methylnaphthalene	7.296	142	671495	56.90	ppm		98
41) 1,2,4,5-Tetrachloroben...	7.429	216	345923	56.82	ppm		98
43) Hexachlorocyclopentadiene	7.456	237	231230	63.96	ppm		96
44) 2,4,6-Trichlorophenol	7.563	196	248365	63.41	ppm		100
45) 2,4,5-Trichlorophenol	7.616	196	248084	61.28	ppm		99
47) 1,1'-Biphenyl	7.793	154	871069	63.01	ppm		98
48) 2-Chloronaphthalene	7.809	162	637132	61.36	ppm		99
49) 2-Nitroaniline	7.996	65	258673	66.55	ppm		95
50) p-Dinitrobenzene	8.161	75	174333	67.19	ppm		94
51) Acenaphthylene	8.428	152	1001991	59.80	ppm		100
52) Dimethylphthalate	8.332	163	731497	59.56	ppm		99
53) m-Dinitrobenzene	8.338	168	140645	60.49	ppm		77
54) 2,6-Dinitrotoluene	8.423	165	182321	60.24	ppm		90
55) o-Dinitrobenzene	8.525	50	134880	63.27	ppm		94
56) Acenaphthene	8.717	153	644921	61.86	ppm		97
57) 3-Nitroaniline	8.631	138	238561	61.98	ppm		96
58) 2,4-Dinitrophenol	8.792	184	119961	67.94	ppm		96
59) Dibenzofuran	8.968	168	886887	60.53	ppm		92
60) 2,4-Dinitrotoluene	9.043	165	239069	60.82	ppm		96
61) 4-Nitrophenol	8.925	109	101482	67.13	ppm	#	87
62) 2,3,5,6-Tetrachlorophenol	9.176	232	218848	60.27	ppm		95
63) 2,3,4,6-Tetrachlorophenol	9.246	232	211697	60.49	ppm		95
64) Fluorene	9.534	166	737333	60.25	ppm		99
65) 4-Chlorophenyl-phenyle...	9.556	204	328308	59.06	ppm		98
66) Diethylphthalate	9.492	149	754378	60.10	ppm		98
67) 4-Nitroaniline	9.641	138	221037	60.49	ppm		96
69) 4,6-Dinitro-2-methylph...	9.716	198	151214	64.73	ppm		86
70) n-Nitrosodiphenylamine	9.775	169	601498	70.23	ppm		98
71) Diphenylamine	9.775	169	601498	58.52	ppm		98
72) 1,2-Diphenylhydrazine	9.823	77	767384	61.64	ppm		97
74) 4-Bromophenyl-phenylether	10.389	248	228809	58.40	ppm		97
75) Hexachlorobenzene	10.624	284	264721	56.92	ppm		99
76) Simazine	10.726	201	110564	184.87	ppm		97
77) Atrazine	10.811	200	204597	58.16	ppm		98
78) Pentachlorophenol	10.950	266	180369	60.61	ppm		96
79) Phenanthrene	11.185	178	1004238	60.92	ppm		99
80) Anthracene	11.265	178	983662	58.43	ppm		99
81) Carbazole	11.591	167	995378	59.07	ppm		99
82) Di-n-butylphthalate	12.440	149	1241446	58.62	ppm		100
83) Fluoranthene	13.370	202	1124250	57.42	ppm		99
85) Benzidine	13.690	184	594735	52.34	ppm		98
86) Pyrene	13.771	202	1066938	58.27	ppm		99
88) Butylbenzylphthalate	15.245	149	555892	57.57	ppm		98
89) 3,3'-Dichlorobenzidine	16.105	252	358860	59.17	ppm		99
90) Benzo[a]anthracene	16.057	228	988701	57.72	ppm		99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\sl3629\
Data File : L0681701.D
Acq On : 2 Apr 2015 1:03 pm
Operator : nareshj
Sample : ic3629-60
Misc : op55410,sl3629,1000,,,1,1,water
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Apr 02 13:46:46 2015
Quant Method : C:\msdchem\1\METHODS\8270da.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Thu Apr 02 13:42:57 2015
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
91) Chrysene	16.132	228	775948	56.15 ppm	100
92) bis(2-Ethylhexyl)phtha...	16.447	149	668374	58.31 ppm	98
94) Di-n-octylphthalate	17.558	149	1141555	63.68 ppm	99
95) Benzo[b]fluoranthene	17.986	252	902324	60.47 ppm	98
96) Benzo[k]fluoranthene	18.028	252	772020	57.90 ppm	99
97) Benzo[a]pyrene	18.504	252	865936	61.86 ppm	99
98) Indeno[1,2,3-cd]pyrene	20.192	276	713725	60.04 ppm	96
99) Dibenz[a,h]anthracene	20.235	278	633934	57.98 ppm	97
100) Benzo[g,h,i]perylene	20.539	276	708227	58.39 ppm	97

(#) = qualifier out of range (m) = manual integration (+) = signals summed

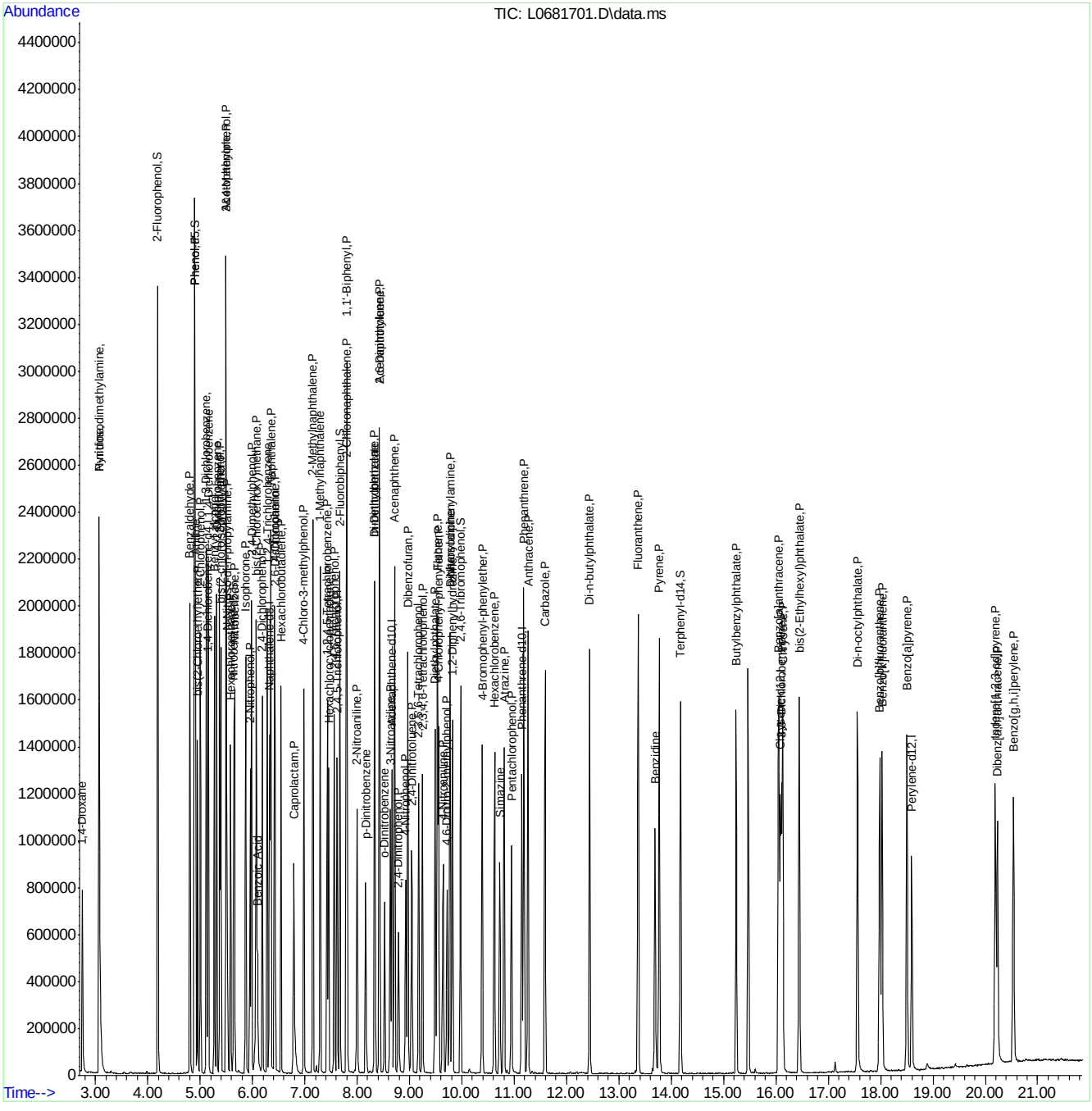
7.6.5

7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\sl3629\
Data File : L0681701.D
Acq On : 2 Apr 2015 1:03 pm
Operator : nareshj
Sample : ic3629-60
Misc : op55410,sl3629,1000,,,1,1,water
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Apr 02 13:46:46 2015
Quant Method : C:\msdchem\1\METHODS\8270da.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Thu Apr 02 13:42:57 2015
Response via : Initial Calibration



ACCUTEST LABORATORIES FA23258

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\sl3629\
Data File : L0681702.D
Acq On : 2 Apr 2015 1:30 pm
Operator : nareshj
Sample : ic3629-75
Misc : op55410,sl3629,1000,,,1,1,water
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Apr 02 14:17:27 2015
Quant Method : C:\msdchem\1\METHODS\8270da.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Thu Apr 02 13:42:57 2015
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	5.146	152	180562	40.00	ppm	0.00
22) Naphthalene-d8	6.326	136	629330	40.00	ppm	0.00
42) Acenaphthene-d10	8.666	164	353388	40.00	ppm	0.00
68) Phenanthrene-d10	11.145	188	631133	40.00	ppm	0.00
84) Chrysene-d12	16.086	240	530996	40.00	ppm	0.00
93) Perylene-d12	18.602	264	471921	40.00	ppm	0.00

System Monitoring Compounds						
7) 2-Fluorophenol	4.189	112	998265	151.55	ppm	0.00
Spiked Amount 100.000	Range 14 - 67		Recovery = 151.55%#			
9) Phenol-d5	4.889	99	1048091	132.50	ppm	0.00
Spiked Amount 100.000	Range 10 - 50		Recovery = 132.50%#			
23) Nitrobenzene-d5	5.637	82	511306	75.82	ppm	0.00
Spiked Amount 50.000	Range 42 - 108		Recovery = 151.64%#			
46) 2-Fluorobiphenyl	7.672	172	812054	71.67	ppm	0.00
Spiked Amount 50.000	Range 40 - 106		Recovery = 143.34%#			
73) 2,4,6-Tribromophenol	9.980	330	330769	144.81	ppm	0.00
Spiked Amount 100.000	Range 33 - 118		Recovery = 144.81%#			
87) Terphenyl-d14	14.179	244	872493	65.74	ppm	0.00
Spiked Amount 50.000	Range 39 - 121		Recovery = 131.48%#			

Target Compounds						Qvalue
2) 1,4-Dioxane	2.747	88	331102	83.00	ppm	97
3) N-nitrosodimethylamine	3.067	42	337844	80.36	ppm	77
4) Pyridine	3.067	79	736547	79.19	ppm	87
5) Benzaldehyde	4.804	106	414811	71.01	ppm	94
6) Aniline	4.910	93	724585	76.11	ppm	92
8) bis(2-Chloroethyl)ether	4.953	93	502222	75.71	ppm	96
10) Phenol	4.900	94	663561	75.93	ppm	93
11) 2-Chlorophenol	5.007	128	471936	75.74	ppm	99
12) 1,3-Dichlorobenzene	5.119	146	531334	77.91	ppm	98
13) 1,4-Dichlorobenzene	5.156	146	500844	78.10	ppm	99
14) 1,2-Dichlorobenzene	5.316	146	479803	75.79	ppm	98
15) Benzyl alcohol	5.268	108	367883	79.58	ppm	99
16) bis(2-chloroisopropyl)...	5.397	45	840317	76.38	ppm	98
17) 2-Methylphenol	5.375	108	464534	77.88	ppm	99
18) Acetophenone	5.503	105	627056	76.59	ppm	98
19) Hexachloroethane	5.584	117	203749	78.15	ppm	94
20) N-Nitroso-di-n-propyla...	5.519	70	322611	77.93	ppm	96
21) 3&4-Methylphenol	5.498	108	506391	79.06	ppm	98
24) Nitrobenzene	5.658	77	493162	76.48	ppm	99
25) Isophorone	5.867	82	903730	71.66	ppm	96
26) 2-Nitrophenol	5.952	139	263178	76.05	ppm	93
27) 2,4-Dimethylphenol	5.979	107	432028	72.91	ppm	99
28) bis(2-Chloroethoxy)met...	6.075	93	562924	73.15	ppm	98
29) Benzoic Acid	6.102	105	407277	99.39	ppm	99
30) 2,4-Dichlorophenol	6.187	162	374147	72.82	ppm	99
31) 1,2,4-Trichlorobenzene	6.283	180	421528	70.91	ppm	97
33) Naphthalene	6.348	128	1106328	73.59	ppm	97
34) 4-Chloroaniline	6.422	127	580609	76.89	ppm	98

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\sl3629\
Data File : L0681702.D
Acq On : 2 Apr 2015 1:30 pm
Operator : nareshj
Sample : ic3629-75
Misc : op55410,sl3629,1000,,,1,1,water
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Apr 02 14:17:27 2015
Quant Method : C:\msdchem\1\METHODS\8270da.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Thu Apr 02 13:42:57 2015
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
35) 2,6-Dichlorophenol	6.433	162	358824	72.62	ppm		99
36) Hexachlorobutadiene	6.545	225	220977	72.26	ppm		98
37) Caprolactam	6.796	113	171120	76.62	ppm		94
38) 4-Chloro-3-methylphenol	6.983	107	420072	74.47	ppm		97
39) 2-Methylnaphthalene	7.154	142	868543	71.27	ppm		97
40) 1-Methylnaphthalene	7.293	142	761310	68.65	ppm		98
41) 1,2,4,5-Tetrachloroben...	7.427	216	392272	68.57	ppm		99
43) Hexachlorocyclopentadiene	7.459	237	257684	76.51	ppm		98
44) 2,4,6-Trichlorophenol	7.566	196	276499	75.77	ppm		99
45) 2,4,5-Trichlorophenol	7.619	196	286995	76.10	ppm		97
47) 1,1'-Biphenyl	7.795	154	961836	74.68	ppm		98
48) 2-Chloronaphthalene	7.806	162	723317	74.77	ppm		99
49) 2-Nitroaniline	7.998	65	294263	81.26	ppm		97
50) p-Dinitrobenzene	8.164	75	198776	82.24	ppm		97
51) Acenaphthylene	8.431	152	1121449	71.84	ppm		99
52) Dimethylphthalate	8.335	163	821555	71.81	ppm		98
53) m-Dinitrobenzene	8.340	168	168022	77.57	ppm		88
54) 2,6-Dinitrotoluene	8.426	165	208747	74.04	ppm		91
55) o-Dinitrobenzene	8.527	50	156332	78.72	ppm		94
56) Acenaphthene	8.719	153	741045	76.29	ppm		99
57) 3-Nitroaniline	8.634	138	272350	75.96	ppm		96
58) 2,4-Dinitrophenol	8.789	184	145035	88.17	ppm		96
59) Dibenzofuran	8.970	168	994831	72.89	ppm		89
60) 2,4-Dinitrotoluene	9.045	165	280812	76.68	ppm		96
61) 4-Nitrophenol	8.928	109	115792	82.22	ppm	#	83
62) 2,3,5,6-Tetrachlorophenol	9.174	232	251451	74.34	ppm		95
63) 2,3,4,6-Tetrachlorophenol	9.248	232	240674	73.82	ppm		96
64) Fluorene	9.537	166	827362	72.57	ppm		100
65) 4-Chlorophenyl-phenyle...	9.558	204	364822	70.45	ppm		99
66) Diethylphthalate	9.494	149	858053	73.38	ppm		99
67) 4-Nitroaniline	9.649	138	265500	77.99	ppm		97
69) 4,6-Dinitro-2-methylph...	9.718	198	177180	80.88	ppm		91
70) n-Nitrosodiphenylamine	9.777	169	672750	83.76	ppm		98
71) Diphenylamine	9.777	169	672750	69.80	ppm		98
72) 1,2-Diphenylhydrazine	9.820	77	857823	73.48	ppm		95
74) 4-Bromophenyl-phenylether	10.386	248	253509	69.00	ppm		99
75) Hexachlorobenzene	10.621	284	306442	70.27	ppm		97
76) Simazine	10.733	201	129247	230.46	ppm		97
77) Atrazine	10.814	200	224916	68.19	ppm		95
78) Pentachlorophenol	10.947	266	210492	75.43	ppm		97
79) Phenanthrene	11.187	178	1162400	75.20	ppm		98
80) Anthracene	11.268	178	1141037	72.28	ppm		99
81) Carbazole	11.588	167	1148725	72.69	ppm		99
82) Di-n-butylphthalate	12.443	149	1394010	70.19	ppm		99
83) Fluoranthene	13.372	202	1286809	70.09	ppm		99
85) Benzidine	13.688	184	715579	64.18	ppm		99
86) Pyrene	13.773	202	1204367	67.02	ppm		97
88) Butylbenzylphthalate	15.242	149	653507	68.97	ppm		98
89) 3,3'-Dichlorobenzidine	16.108	252	440954	74.09	ppm		99
90) Benzo[a]anthracene	16.054	228	1160568	69.04	ppm		99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\sl3629\
Data File : L0681702.D
Acq On : 2 Apr 2015 1:30 pm
Operator : nareshj
Sample : ic3629-75
Misc : op55410,sl3629,1000,,,1,1,water
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Apr 02 14:17:27 2015
Quant Method : C:\msdchem\1\METHODS\8270da.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Thu Apr 02 13:42:57 2015
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
91) Chrysene	16.134	228	955413	70.46 ppm	98
92) bis(2-Ethylhexyl)phtha...	16.444	149	768857	68.36 ppm	99
94) Di-n-octylphthalate	17.561	149	1347619	75.05 ppm	98
95) Benzo[b]fluoranthene	17.993	252	1105036	73.94 ppm	98
96) Benzo[k]fluoranthene	18.036	252	1002406	75.06 ppm	98
97) Benzo[a]pyrene	18.512	252	1087445	77.55 ppm	99
98) Indeno[1,2,3-cd]pyrene	20.200	276	913779	76.75 ppm	98
99) Dibenz[a,h]anthracene	20.237	278	821351	75.00 ppm	94
100) Benzo[g,h,i]perylene	20.547	276	896448	73.79 ppm	99

(#) = qualifier out of range (m) = manual integration (+) = signals summed

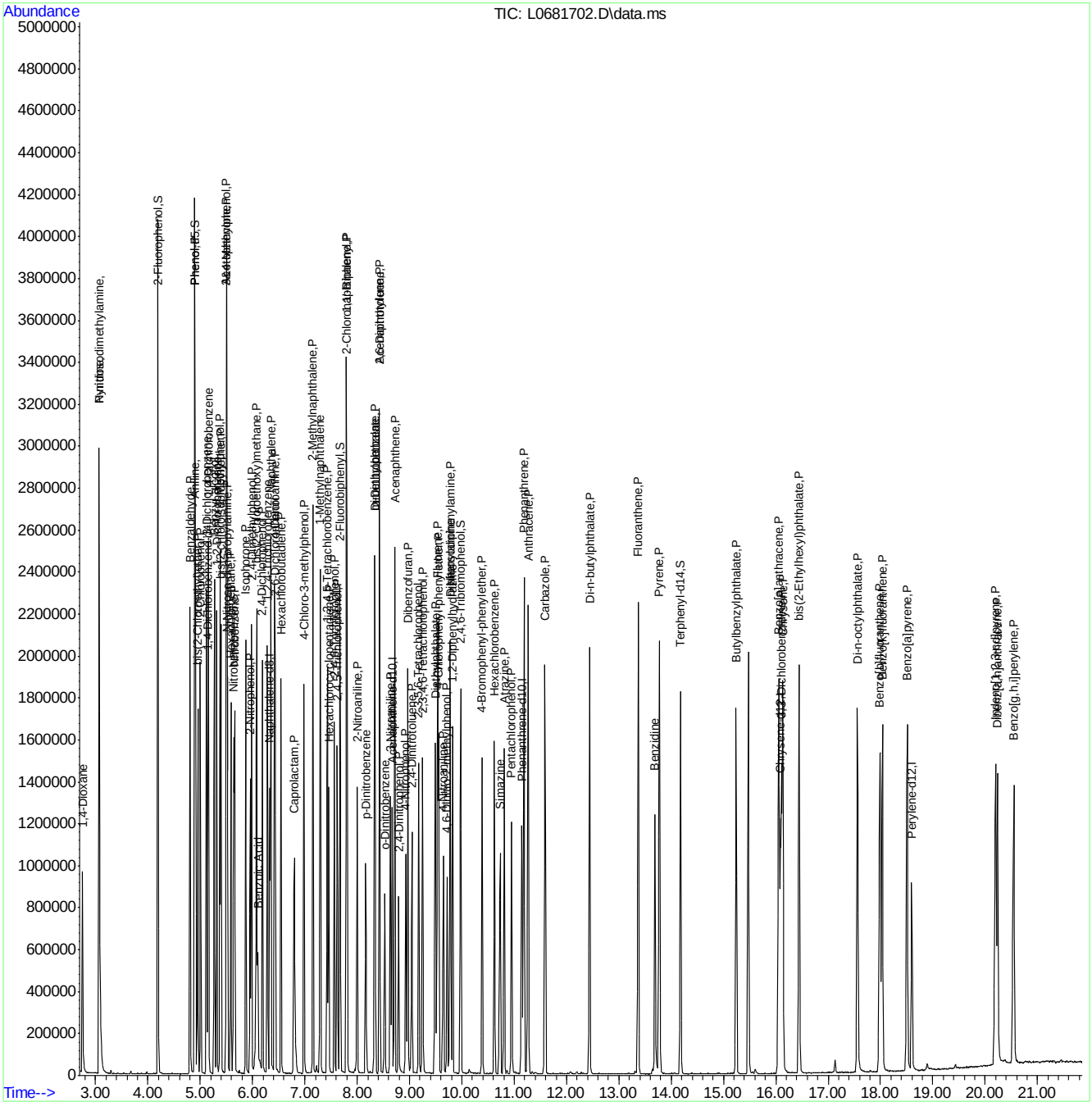
7.6.6

7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\sl3629\
Data File : L0681702.D
Acq On : 2 Apr 2015 1:30 pm
Operator : nareshj
Sample : ic3629-75
Misc : op55410,sl3629,1000,,,1,1,water
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Apr 02 14:17:27 2015
Quant Method : C:\msdchem\1\METHODS\8270da.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Thu Apr 02 13:42:57 2015
Response via : Initial Calibration



ACCUTEST LABORATORIES FA23258

L0681703.D

Manual Integrations APPROVED (compounds with "m" flag)

Mike Eger
04/06/15 16:19

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\sl3629\
Data File : L0681703.D
Acq On : 2 Apr 2015 1:57 pm
Operator : nareshj
Sample : ic3629-100
Misc : op55410,sl3629,1000,,,1,1,water
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Apr 02 14:25:35 2015
Quant Method : C:\msdchem\1\METHODS\8270da.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Thu Apr 02 13:42:57 2015
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	5.146	152	147971	40.00	ppm	0.00
22) Naphthalene-d8	6.326	136	512621	40.00	ppm	0.00
42) Acenaphthene-d10	8.666	164	282461	40.00	ppm	0.00
68) Phenanthrene-d10	11.145	188	504360	40.00	ppm	0.00
84) Chrysene-d12	16.081	240	430708	40.00	ppm	0.00
93) Perylene-d12	18.597	264	381664	40.00	ppm	0.00

System Monitoring Compounds

7) 2-Fluorophenol	4.189	112	1060843	196.52	ppm	0.00
Spiked Amount 100.000	Range 14 - 67		Recovery = 196.52%#			
9) Phenol-d5	4.889	99	1125275	173.59	ppm	0.00
Spiked Amount 100.000	Range 10 - 50		Recovery = 173.59%#			
23) Nitrobenzene-d5	5.637	82	540370	98.38	ppm	0.00
Spiked Amount 50.000	Range 42 - 108		Recovery = 196.76%#			
46) 2-Fluorobiphenyl	7.673	172	860227	94.98	ppm	0.00
Spiked Amount 50.000	Range 40 - 106		Recovery = 189.96%#			
73) 2,4,6-Tribromophenol	9.980	330	355573	194.80	ppm	0.00
Spiked Amount 100.000	Range 33 - 118		Recovery = 194.80%#			
87) Terphenyl-d14	14.179	244	938154	87.15	ppm	0.00
Spiked Amount 50.000	Range 39 - 121		Recovery = 174.30%#			

Target Compounds

						Qvalue
2) 1,4-Dioxane	2.742	88	359237	109.89	ppm	97
3) N-nitrosodimethylamine	3.062	42	354929	103.02	ppm	79
4) Pyridine	3.062	79	770835	101.13	ppm	83
5) Benzaldehyde	4.804	106	384732	80.37	ppm	92
6) Aniline	4.911	93	773850	99.19	ppm	95
8) bis(2-Chloroethyl)ether	4.953	93	538163	99.00	ppm	96
10) Phenol	4.900	94	713664	99.65	ppm	91
11) 2-Chlorophenol	5.007	128	513238	100.51	ppm	98
12) 1,3-Dichlorobenzene	5.119	146	570754	102.12	ppm	98
13) 1,4-Dichlorobenzene	5.156	146	549582	104.57	ppm	99
14) 1,2-Dichlorobenzene	5.317	146	526573	101.50	ppm	97
15) Benzyl alcohol	5.269	108	397498	104.92	ppm	99
16) bis(2-chloroisopropyl)...	5.397	45	888210	98.51	ppm	99
17) 2-Methylphenol	5.375	108	497196	101.71	ppm	99
18) Acetophenone	5.504	105	667891	99.55	ppm	98
19) Hexachloroethane	5.584	117	220078	103.01	ppm	96
20) N-Nitroso-di-n-propyla...	5.520	70	349741	103.09	ppm	97
21) 3&4-Methylphenol	5.498	108	536749	102.26	ppm	99
24) Nitrobenzene	5.659	77	518697	98.76	ppm	100
25) Isophorone	5.867	82	963561	93.81	ppm	99
26) 2-Nitrophenol	5.952	139	282612	100.26	ppm	92
27) 2,4-Dimethylphenol	5.979	107	467295	96.82	ppm	98
28) bis(2-Chloroethoxy)met...	6.075	93	595100	94.93	ppm	97
29) Benzoic Acid	6.107	105	443189m	132.78	ppm	
30) 2,4-Dichlorophenol	6.187	162	400213	95.63	ppm	99
31) 1,2,4-Trichlorobenzene	6.284	180	448338	92.59	ppm	97
33) Naphthalene	6.348	128	1168998	95.47	ppm	96
34) 4-Chloroaniline	6.417	127	612548	99.59	ppm	99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\sl3629\
Data File : L0681703.D
Acq On : 2 Apr 2015 1:57 pm
Operator : nareshj
Sample : ic3629-100
Misc : op55410,sl3629,1000,,,1,1,water
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Apr 02 14:25:35 2015
Quant Method : C:\msdchem\1\METHODS\8270da.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Thu Apr 02 13:42:57 2015
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
35) 2,6-Dichlorophenol	6.433	162	370128	91.96	ppm		98
36) Hexachlorobutadiene	6.545	225	239556	96.17	ppm		97
37) Caprolactam	6.807	113	182261	100.19	ppm		98
38) 4-Chloro-3-methylphenol	6.983	107	444243	96.69	ppm		94
39) 2-Methylnaphthalene	7.154	142	915694	92.25	ppm		98
40) 1-Methylnaphthalene	7.293	142	798445	88.39	ppm		98
41) 1,2,4,5-Tetrachloroben...	7.427	216	412933	88.62	ppm		99
43) Hexachlorocyclopentadiene	7.459	237	277665	103.15	ppm		97
44) 2,4,6-Trichlorophenol	7.560	196	296284	101.58	ppm		98
45) 2,4,5-Trichlorophenol	7.619	196	302990	100.52	ppm		99
47) 1,1'-Biphenyl	7.795	154	994113	96.57	ppm		97
48) 2-Chloronaphthalene	7.806	162	759456	98.22	ppm		98
49) 2-Nitroaniline	7.998	65	312834	108.09	ppm		98
50) p-Dinitrobenzene	8.164	75	220481	114.12	ppm		99
51) Acenaphthylene	8.431	152	1192384	95.57	ppm		98
52) Dimethylphthalate	8.335	163	859534	93.99	ppm		98
53) m-Dinitrobenzene	8.340	168	179266	103.55	ppm		91
54) 2,6-Dinitrotoluene	8.426	165	223835	99.33	ppm		93
55) o-Dinitrobenzene	8.527	50	170109	107.17	ppm		92
56) Acenaphthene	8.720	153	788724	101.59	ppm		98
57) 3-Nitroaniline	8.634	138	299467	104.49	ppm		95
58) 2,4-Dinitrophenol	8.789	184	157039	119.44	ppm		93
59) Dibenzofuran	8.971	168	1045389	95.82	ppm		89
60) 2,4-Dinitrotoluene	9.045	165	290792	99.35	ppm		96
61) 4-Nitrophenol	8.933	109	123268	109.51	ppm	#	86
62) 2,3,5,6-Tetrachlorophenol	9.174	232	268596	99.35	ppm		94
63) 2,3,4,6-Tetrachlorophenol	9.248	232	255930	98.21	ppm		96
64) Fluorene	9.532	166	869852	95.46	ppm		99
65) 4-Chlorophenyl-phenyle...	9.558	204	380595	91.95	ppm		99
66) Diethylphthalate	9.494	149	894405	95.69	ppm		99
67) 4-Nitroaniline	9.649	138	285024	104.75	ppm		96
69) 4,6-Dinitro-2-methylph...	9.724	198	184625	105.46	ppm		88
70) n-Nitrosodiphenylamine	9.777	169	717995	111.87	ppm		97
71) Diphenylamine	9.777	169	717995	93.22	ppm		97
72) 1,2-Diphenylhydrazine	9.820	77	898312	96.28	ppm		97
74) 4-Bromophenyl-phenylether	10.386	248	273783	93.24	ppm		98
75) Hexachlorobenzene	10.621	284	323280	92.76	ppm		96
76) Simazine	10.734	201	135928	303.29	ppm		96
77) Atrazine	10.814	200	240311	91.16	ppm		98
78) Pentachlorophenol	10.947	266	223045	100.01	ppm		99
79) Phenanthrene	11.188	178	1240759	100.45	ppm		99
80) Anthracene	11.268	178	1210156	95.93	ppm		97
81) Carbazole	11.594	167	1209374	95.77	ppm		97
82) Di-n-butylphthalate	12.443	149	1471851	92.74	ppm		99
83) Fluoranthene	13.373	202	1332225	90.80	ppm		98
85) Benzidine	13.688	184	694783	76.82	ppm		98
86) Pyrene	13.773	202	1305736	89.59	ppm		98
88) Butylbenzylphthalate	15.242	149	690237	89.80	ppm		99
89) 3,3'-Dichlorobenzidine	16.108	252	456774	94.62	ppm		99
90) Benzo[a]anthracene	16.054	228	1219791	89.46	ppm		99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\sl3629\
Data File : L0681703.D
Acq On : 2 Apr 2015 1:57 pm
Operator : nareshj
Sample : ic3629-100
Misc : op55410,sl3629,1000,,,1,1,water
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Apr 02 14:25:35 2015
Quant Method : C:\msdchem\1\METHODS\8270da.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Thu Apr 02 13:42:57 2015
Response via : Initial Calibration

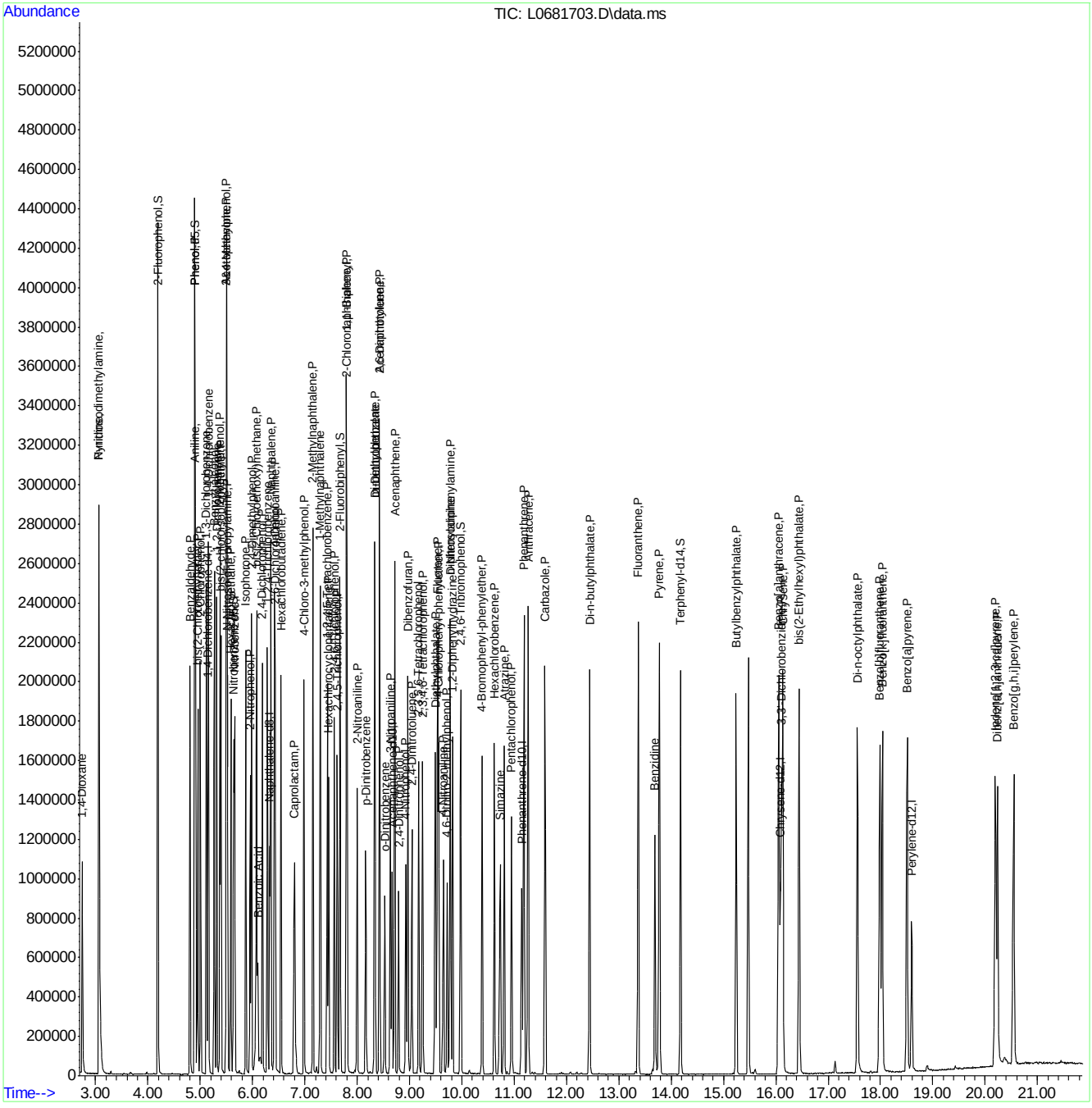
Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
91) Chrysene	16.134	228	1013936	92.19 ppm	97
92) bis(2-Ethylhexyl)phtha...	16.444	149	799719	87.66 ppm	100
94) Di-n-octylphthalate	17.555	149	1365206	94.01 ppm	99
95) Benzo[b]fluoranthene	17.988	252	1160737	96.03 ppm	98
96) Benzo[k]fluoranthene	18.036	252	1023745	94.79 ppm	98
97) Benzo[a]pyrene	18.512	252	1127860	99.46 ppm	98
98) Indeno[1,2,3-cd]pyrene	20.200	276	957751	99.47 ppm	99
99) Dibenz[a,h]anthracene	20.237	278	855405	96.58 ppm	95
100) Benzo[g,h,i]perylene	20.547	276	946073	96.29 ppm	97

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\sl3629\
Data File : L0681703.D
Acq On : 2 Apr 2015 1:57 pm
Operator : nareshj
Sample : ic3629-100
Misc : op55410,sl3629,1000,,,1,1,water
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Apr 02 14:25:35 2015
Quant Method : C:\msdchem\1\METHODS\8270da.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Thu Apr 02 13:42:57 2015
Response via : Initial Calibration



ACCUTEST LABORATORIES FA23258

Manual Integration Approval Summary

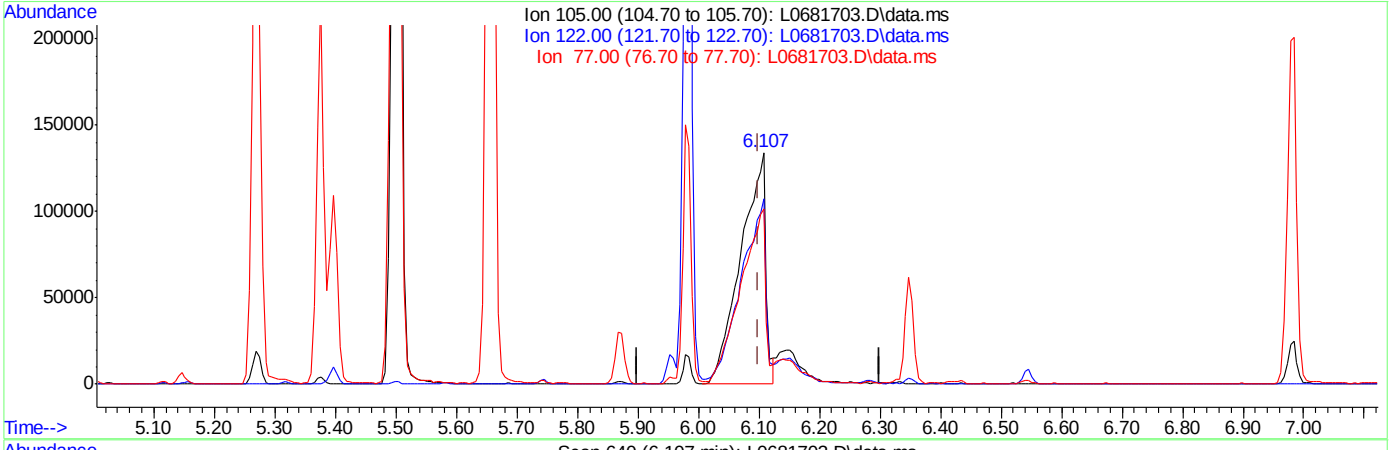
Sample Number:	SL3629-IC3629	**Method:**	SW846 8270D
Lab FileID:	L0681703.D	**Analyst approved:**	04/06/15 13:56 Martha Valls
Injection Time:	04/02/15 13:57	**Supervisor approved:**	04/06/15 16:19 Mike Eger

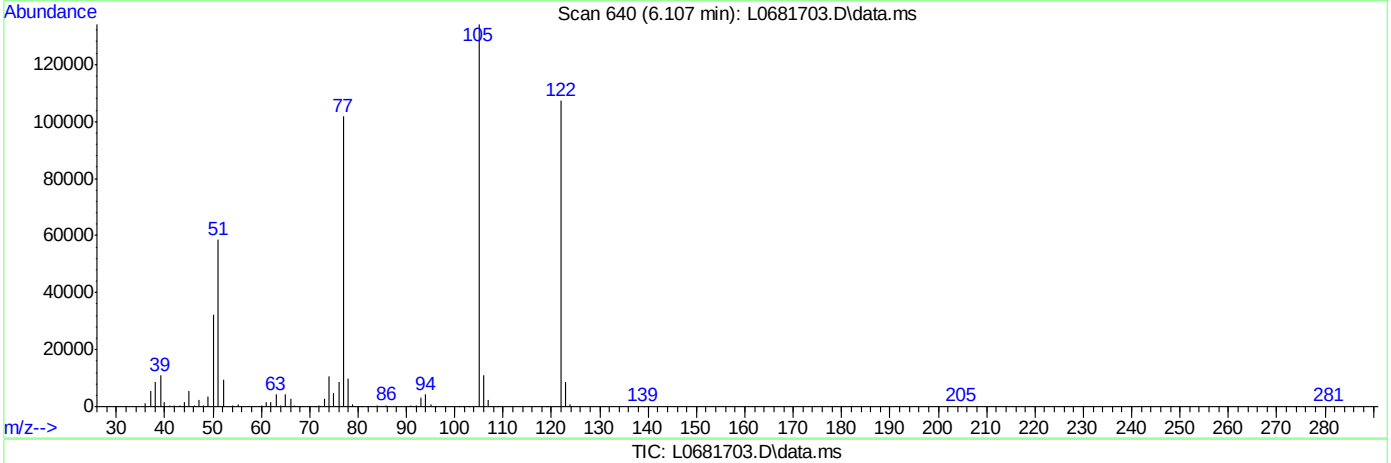
Parameter	CAS	Sig#	R.T. (min.)	Reason
Benzoic Acid	65-85-0		6.11	Split peak

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\sl3629\
Data File : L0681703.D
Acq On : 2 Apr 2015 1:57 pm
Operator : nareshj
Sample : ic3629-100
Misc : op55410,sl3629,1000,,,1,1,water
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Apr 02 14:25:27 2015
Quant Method : C:\msdchem\1\METHODS\8270da.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Thu Apr 02 13:42:57 2015
Response via : Initial Calibration





TIC: L0681703.D\data.ms

(29) Benzoic Acid

6.107min (+0.008) 114.75ppm

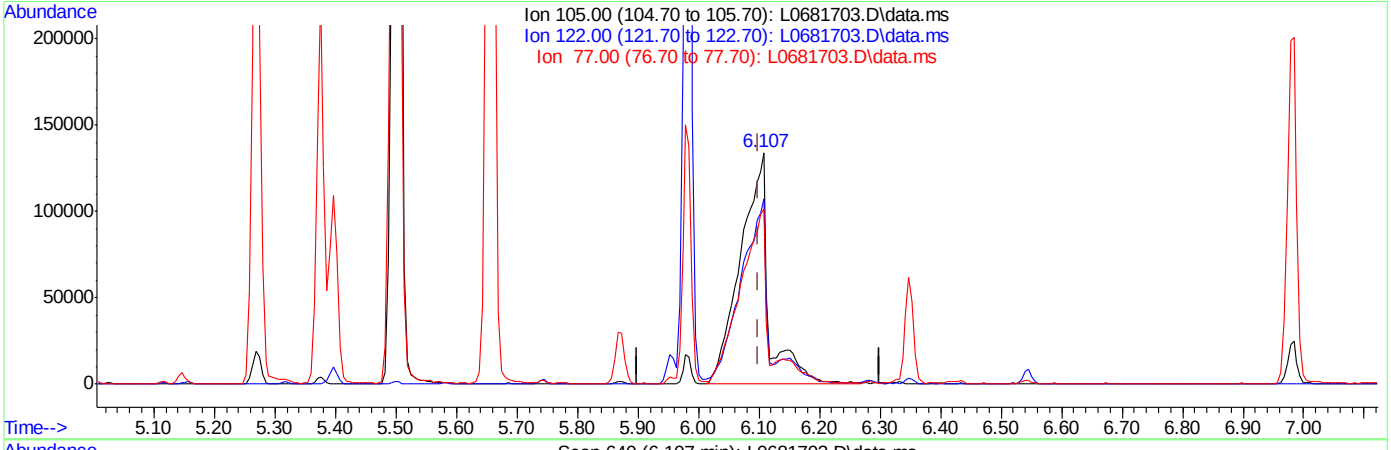
response 383003

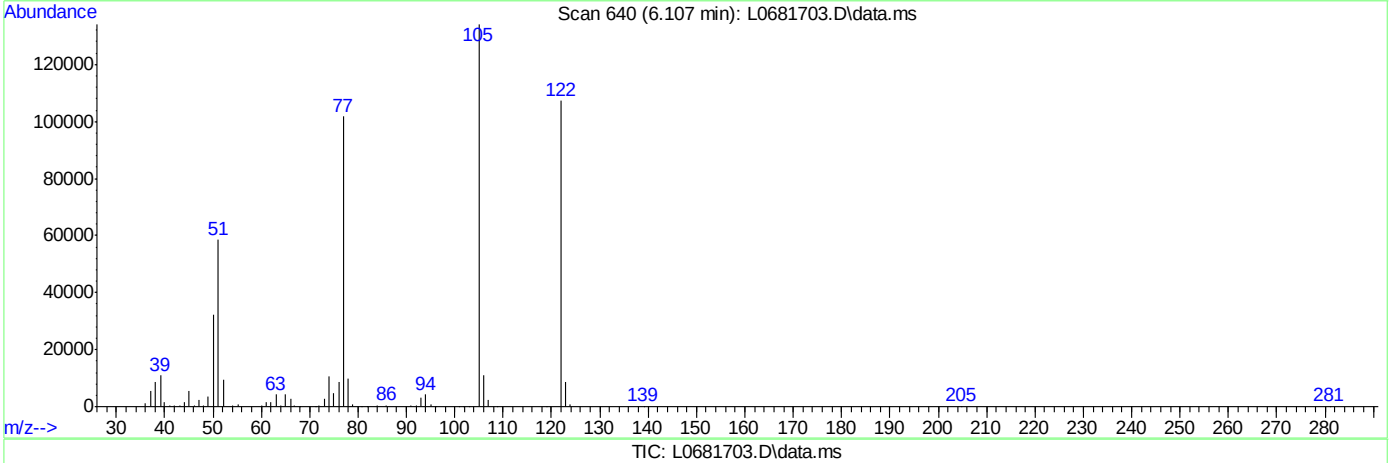
Ion	Exp%	Act%
105.00	100	100
122.00	80.80	79.16
77.00	76.70	75.37
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\sl3629\
Data File : L0681703.D
Acq On : 2 Apr 2015 1:57 pm
Operator : nareshj
Sample : ic3629-100
Misc : op55410,sl3629,1000,,,1,1,water
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Apr 02 14:25:27 2015
Quant Method : C:\msdchem\1\METHODS\8270da.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Thu Apr 02 13:42:57 2015
Response via : Initial Calibration





TIC: L0681703.D\data.ms

(29) Benzoic Acid

6.107min (+0.008) 132.78ppm m

response 443189

Ion	Exp%	Act%
105.00	100	100
122.00	80.80	80.02
77.00	76.70	75.82
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\sl3629\
Data File : L0681704.D
Acq On : 2 Apr 2015 2:34 pm
Operator : nareshj
Sample : icv3629-50
Misc : op55410,sl3629,1000,,,1,1,water
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Apr 03 15:14:36 2015
Quant Method : C:\msdchem\1\METHODS\8270da0402.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Thu Apr 02 14:28:10 2015
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	5.142	152	217745	40.00	ppm	0.00
22) Naphthalene-d8	6.328	136	706326	40.00	ppm	0.00
42) Acenaphthene-d10	8.668	164	407306	40.00	ppm	0.00
68) Phenanthrene-d10	11.147	188	638118	40.00	ppm	0.00
84) Chrysene-d12	16.083	240	547464	40.00	ppm	0.00
93) Perylene-d12	18.599	264	452957	40.00	ppm	0.00

System Monitoring Compounds

7) 2-Fluorophenol	0.000	112	0	0.00	ppm	
Spiked Amount 100.000	Range 14 - 67		Recovery	=	0.00%#	
9) Phenol-d5	0.000	99	0	0.00	ppm	
Spiked Amount 100.000	Range 10 - 50		Recovery	=	0.00%#	
23) Nitrobenzene-d5	0.000	82	0d	0.00	ppm	
Spiked Amount 50.000	Range 42 - 108		Recovery	=	0.00%#	
46) 2-Fluorobiphenyl	0.000	172	0	0.00	ppm	
Spiked Amount 50.000	Range 40 - 106		Recovery	=	0.00%#	
73) 2,4,6-Tribromophenol	0.000	330	0	0.00	ppm	
Spiked Amount 100.000	Range 33 - 118		Recovery	=	0.00%#	
87) Terphenyl-d14	0.000	244	0	0.00	ppm	
Spiked Amount 50.000	Range 39 - 121		Recovery	=	0.00%#	

Target Compounds

						Qvalue
2) 1,4-Dioxane	2.760	88	270439	51.99	ppm	97
3) N-nitrosodimethylamine	3.075	42	306858	52.00	ppm	96
8) bis(2-Chloroethyl)ether	4.950	93	417255	49.73	ppm	98
10) Phenol	4.897	94	514880	44.73	ppm	95
11) 2-Chlorophenol	5.003	128	367423	47.04	ppm	97
12) 1,3-Dichlorobenzene	5.116	146	417503	47.86	ppm	99
13) 1,4-Dichlorobenzene	5.158	146	387226	47.41	ppm	98
14) 1,2-Dichlorobenzene	5.313	146	404114	50.72	ppm	99
16) bis(2-chloroisopropyl)...	5.399	45	696786	46.36	ppm	98
17) 2-Methylphenol	5.372	108	337627	44.75	ppm	98
18) Acetophenone	5.500	105	455759	42.88	ppm	98
19) Hexachloroethane	5.586	117	153563	46.61	ppm	84
20) N-Nitroso-di-n-propyla...	5.516	70	231701	43.29	ppm	98
21) 3&4-Methylphenol	5.495	108	660474	81.50	ppm	98
24) Nitrobenzene	5.655	77	373847	48.08	ppm	98
25) Isophorone	5.869	82	682474	47.03	ppm	99
26) 2-Nitrophenol	5.954	139	188832	48.31	ppm	97
27) 2,4-Dimethylphenol	5.981	107	291618	42.94	ppm	98
28) bis(2-Chloroethoxy)met...	6.077	93	430548	48.08	ppm	98
29) Benzoic Acid	6.120	105	554795	96.60	ppm	98
30) 2,4-Dichlorophenol	6.189	162	259567	45.31	ppm	98
31) 1,2,4-Trichlorobenzene	6.280	180	305564	46.81	ppm	97
33) Naphthalene	6.350	128	839855	47.58	ppm	99
35) 2,6-Dichlorophenol	6.430	162	261216	48.13	ppm	100
36) Hexachlorobutadiene	6.547	225	166003	49.75	ppm	96
37) Caprolactam	6.788	113	111430	44.40	ppm	97
38) 4-Chloro-3-methylphenol	6.980	107	289085	45.80	ppm	99
40) 1-Methylnaphthalene	7.295	142	620507	51.75	ppm	99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\sl3629\
Data File : L0681704.D
Acq On : 2 Apr 2015 2:34 pm
Operator : nareshj
Sample : icv3629-50
Misc : op55410,sl3629,1000,,,1,1,water
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Apr 03 15:14:36 2015
Quant Method : C:\msdchem\1\METHODS\8270da0402.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Thu Apr 02 14:28:10 2015
Response via : Initial Calibration

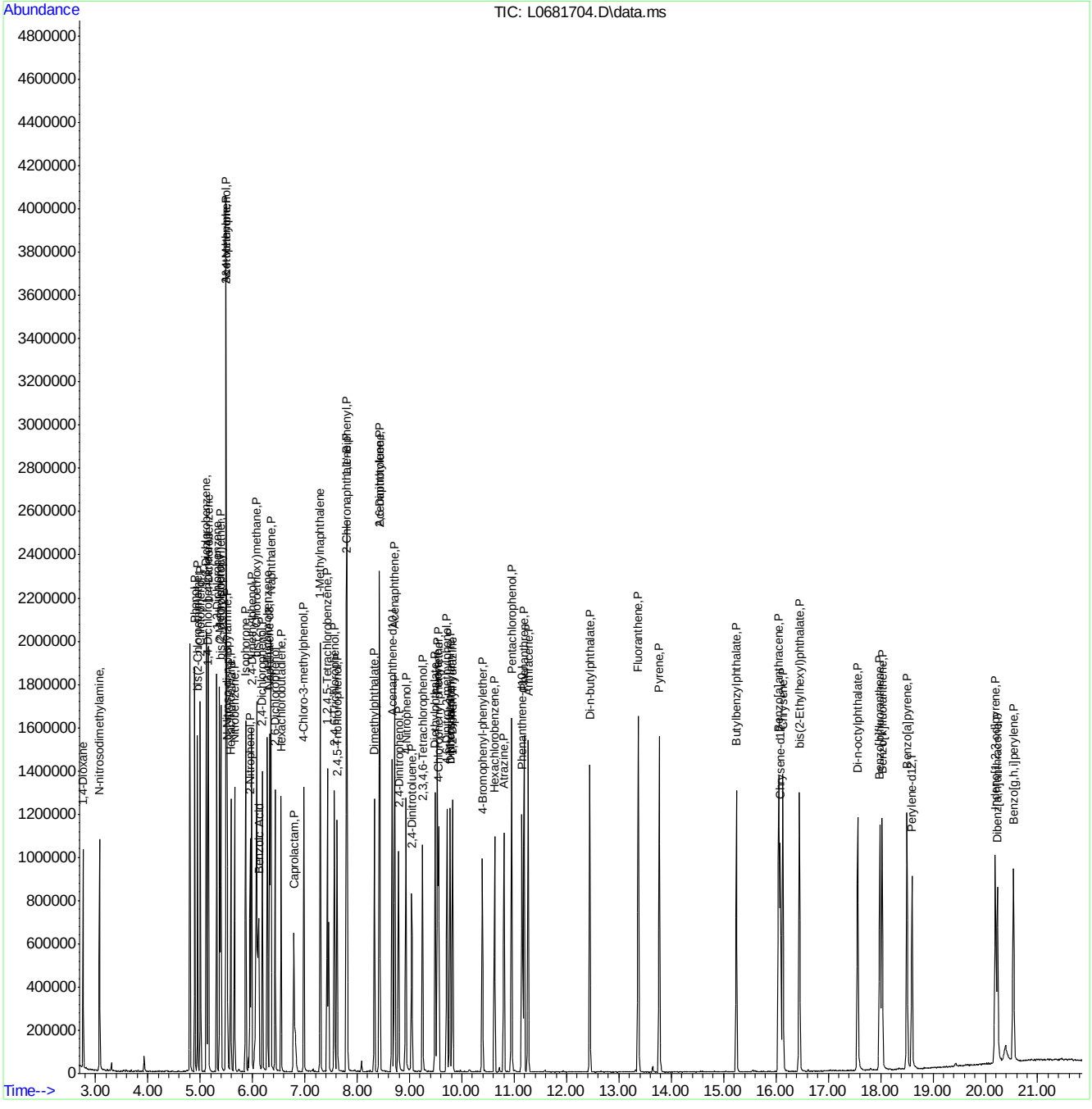
Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) 1,2,4,5-Tetrachloroben...	7.429	216	279424	46.41	ppm		99
44) 2,4,6-Trichlorophenol	7.562	196	201356	47.43	ppm		99
45) 2,4,5-Trichlorophenol	7.616	196	200793	45.54	ppm		97
47) 1,1'-Biphenyl	7.797	154	704369	44.60	ppm		98
48) 2-Chloronaphthalene	7.808	162	527892	45.52	ppm		98
51) Acenaphthylene	8.428	152	845843	44.91	ppm		98
52) Dimethylphthalate	8.332	163	645250	48.41	ppm		99
54) 2,6-Dinitrotoluene	8.422	165	134406	42.28	ppm		98
56) Acenaphthene	8.716	153	541912	47.16	ppm		100
58) 2,4-Dinitrophenol	8.791	184	187307	84.03	ppm		95
60) 2,4-Dinitrotoluene	9.042	165	183313	44.84	ppm		98
61) 4-Nitrophenol	8.930	109	146386	87.07	ppm	#	87
63) 2,3,4,6-Tetrachlorophenol	9.251	232	171645	46.17	ppm		96
64) Fluorene	9.534	166	582970	43.46	ppm		97
65) 4-Chlorophenyl-phenyle...	9.560	204	257187	43.71	ppm		98
66) Diethylphthalate	9.491	149	612421	45.65	ppm		99
69) 4,6-Dinitro-2-methylph...	9.715	198	247578	112.68	ppm		97
70) n-Nitrosodiphenylamine	9.774	169	363272	44.41	ppm		98
71) Diphenylamine	9.774	169	363272	37.00	ppm		98
72) 1,2-Diphenylhydrazine	9.822	77	627956	48.07	ppm		98
74) 4-Bromophenyl-phenylether	10.388	248	161248	43.79	ppm		97
75) Hexachlorobenzene	10.623	284	211745	48.52	ppm		98
77) Atrazine	10.805	200	152124	46.60	ppm		94
78) Pentachlorophenol	10.949	266	284052	104.07	ppm		98
79) Phenanthrene	11.190	178	795100	47.52	ppm		98
80) Anthracene	11.264	178	801862	48.32	ppm		99
82) Di-n-butylphthalate	12.445	149	1026564	50.19	ppm		98
83) Fluoranthene	13.369	202	903874	48.81	ppm		98
86) Pyrene	13.775	202	912959	50.05	ppm		98
88) Butylbenzylphthalate	15.244	149	464975	51.52	ppm		97
90) Benzo[a]anthracene	16.056	228	808454	49.25	ppm		100
91) Chrysene	16.131	228	672018	50.76	ppm		99
92) bis(2-Ethylhexyl)phtha...	16.446	149	526597	49.47	ppm		100
94) Di-n-octylphthalate	17.563	149	914139	53.23	ppm		99
95) Benzo[b]fluoranthene	17.985	252	718592	50.30	ppm		98
96) Benzo[k]fluoranthene	18.028	252	642481	48.26	ppm		98
97) Benzo[a]pyrene	18.503	252	696863	50.67	ppm		99
98) Indeno[1,2,3-cd]pyrene	20.191	276	549200	50.78	ppm		98
99) Dibenz[a,h]anthracene	20.234	278	509016	50.19	ppm		99
100) Benzo[g,h,i]perylene	20.538	276	548395	48.30	ppm		98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\sl3629\
Data File : L0681704.D
Acq On : 2 Apr 2015 2:34 pm
Operator : nareshj
Sample : icv3629-50
Misc : op55410,sl3629,1000,,,1,1,water
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Apr 03 15:14:36 2015
Quant Method : C:\msdchem\1\METHODS\8270da0402.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Thu Apr 02 14:28:10 2015
Response via : Initial Calibration



8270da0402.m Mon Apr 06 16:14:58 2015 Page: 3

ACCUTEST LABORATORIES FA23258

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\sl3629\
Data File : L0681705.D
Acq On : 2 Apr 2015 3:02 pm
Operator : nareshj
Sample : icv3629-50
Misc : op55410,sl3629,1000,,,1,1,water
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Apr 03 13:09:44 2015
Quant Method : C:\msdchem\1\METHODS\8270da0402.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Thu Apr 02 15:27:09 2015
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	5.144	152	225298	40.00 ppm	0.00
22) Naphthalene-d8	6.324	136	885364	40.00 ppm	0.00
42) Acenaphthene-d10	8.664	164	394506	40.00 ppm	0.00
68) Phenanthrene-d10	11.137	188	711403	40.00 ppm	0.00
84) Chrysene-d12	16.073	240	671592	40.00 ppm	0.00
93) Perylene-d12	18.595	264	573358	40.00 ppm	0.00

System Monitoring Compounds

7) 2-Fluorophenol	0.000	112	0	0.00 ppm	
Spiked Amount 100.000	Range 14 - 67		Recovery =	0.00%#	
9) Phenol-d5	0.000	99	0	0.00 ppm	
Spiked Amount 100.000	Range 10 - 50		Recovery =	0.00%#	
23) Nitrobenzene-d5	0.000	82	0	0.00 ppm	
Spiked Amount 50.000	Range 42 - 108		Recovery =	0.00%#	
46) 2-Fluorobiphenyl	0.000	172	0	0.00 ppm	
Spiked Amount 50.000	Range 40 - 106		Recovery =	0.00%#	
73) 2,4,6-Tribromophenol	0.000	330	0	0.00 ppm	
Spiked Amount 100.000	Range 33 - 118		Recovery =	0.00%#	
87) Terphenyl-d14	0.000	244	0	0.00 ppm	
Spiked Amount 50.000	Range 39 - 121		Recovery =	0.00%#	

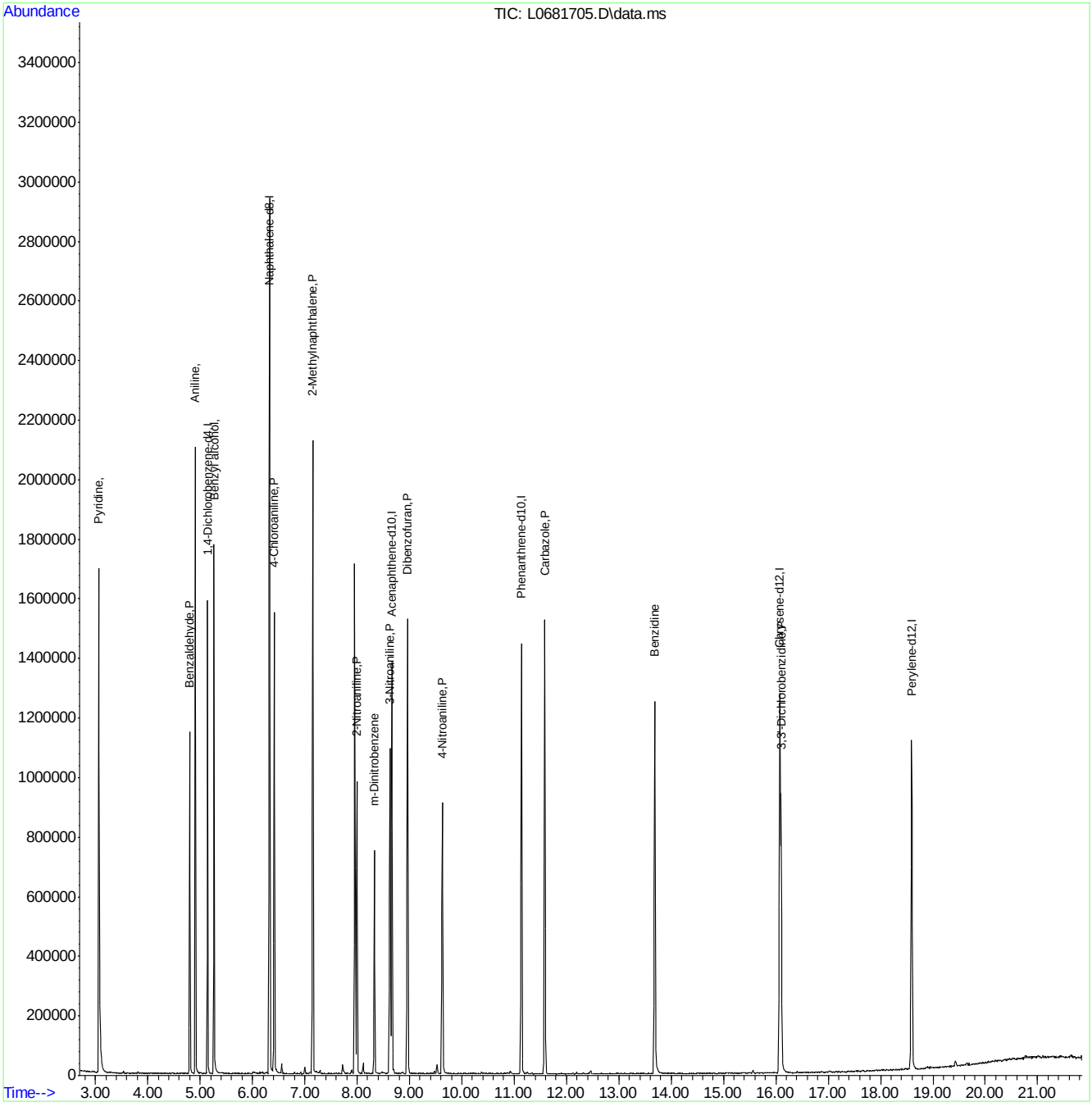
Target Compounds					Qvalue
4) Pyridine	3.065	79	576461	45.00 ppm	96
5) Benzaldehyde	4.802	106	196009	21.60 ppm	98
6) Aniline	4.908	93	614846	48.17 ppm	97
15) Benzyl alcohol	5.266	108	263602	43.97 ppm	96
34) 4-Chloroaniline	6.415	127	426941	38.71 ppm	98
39) 2-Methylnaphthalene	7.152	142	681682	39.42 ppm	99
49) 2-Nitroaniline	7.996	65	202879	47.23 ppm	95
53) m-Dinitrobenzene	8.333	168	112279	47.78 ppm	80
57) 3-Nitroaniline	8.627	138	217966	53.99 ppm	97
59) Dibenzofuran	8.963	168	782548	49.54 ppm	87
67) 4-Nitroaniline	9.631	138	215191	57.24 ppm	99
81) Carbazole	11.586	167	845847	45.17 ppm	98
85) Benzidine	13.686	184	667852	51.31 ppm	98
89) 3,3'-Dichlorobenzidine	16.106	252	311065	44.50 ppm	95

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\sl3629\
Data File : L0681705.D
Acq On : 2 Apr 2015 3:02 pm
Operator : nareshj
Sample : icv3629-50
Misc : op55410,sl3629,1000,,,1,1,water
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Apr 03 13:09:44 2015
Quant Method : C:\msdchem\1\METHODS\8270da0402.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Thu Apr 02 15:27:09 2015
Response via : Initial Calibration



ACCUTEST LABORATORIES FA23258

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\sl3630\
Data File : L0681725.D
Acq On : 3 Apr 2015 4:25 pm
Operator : marthav
Sample : icv3629-50 2-methylnaphtalene
Misc : op55582,sl3630,30.0,,,1,1,soil
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Apr 06 11:43:10 2015
Quant Method : C:\msdchem\1\METHODS\8270da0402.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Thu Apr 02 15:27:09 2015
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	5.140	152	233349	40.00	ppm	0.00
22) Naphthalene-d8	6.321	136	780527	40.00	ppm	0.00
42) Acenaphthene-d10	8.660	164	368149	40.00	ppm	0.00
68) Phenanthrene-d10	11.134	188	640984	40.00	ppm	-0.01
84) Chrysene-d12	16.070	240	530065	40.00	ppm	-0.01
93) Perylene-d12	18.591	264	445815	40.00	ppm	0.00

System Monitoring Compounds

7) 2-Fluorophenol	0.000	112	0	0.00	ppm	
Spiked Amount 100.000	Range 40 - 102		Recovery	=	0.00%#	
9) Phenol-d5	0.000	99	0	0.00	ppm	
Spiked Amount 100.000	Range 41 - 100		Recovery	=	0.00%#	
23) Nitrobenzene-d5	0.000	82	0	0.00	ppm	
Spiked Amount 50.000	Range 40 - 105		Recovery	=	0.00%#	
46) 2-Fluorobiphenyl	0.000	172	0	0.00	ppm	
Spiked Amount 50.000	Range 43 - 107		Recovery	=	0.00%#	
73) 2,4,6-Tribromophenol	0.000	330	0	0.00	ppm	
Spiked Amount 100.000	Range 42 - 108		Recovery	=	0.00%#	
87) Terphenyl-d14	0.000	244	0	0.00	ppm	
Spiked Amount 50.000	Range 45 - 119		Recovery	=	0.00%#	

Target Compounds						Qvalue
39) 2-Methylnaphthalene	7.149	142	723621	47.47	ppm	99

(#) = qualifier out of range (m) = manual integration (+) = signals summed

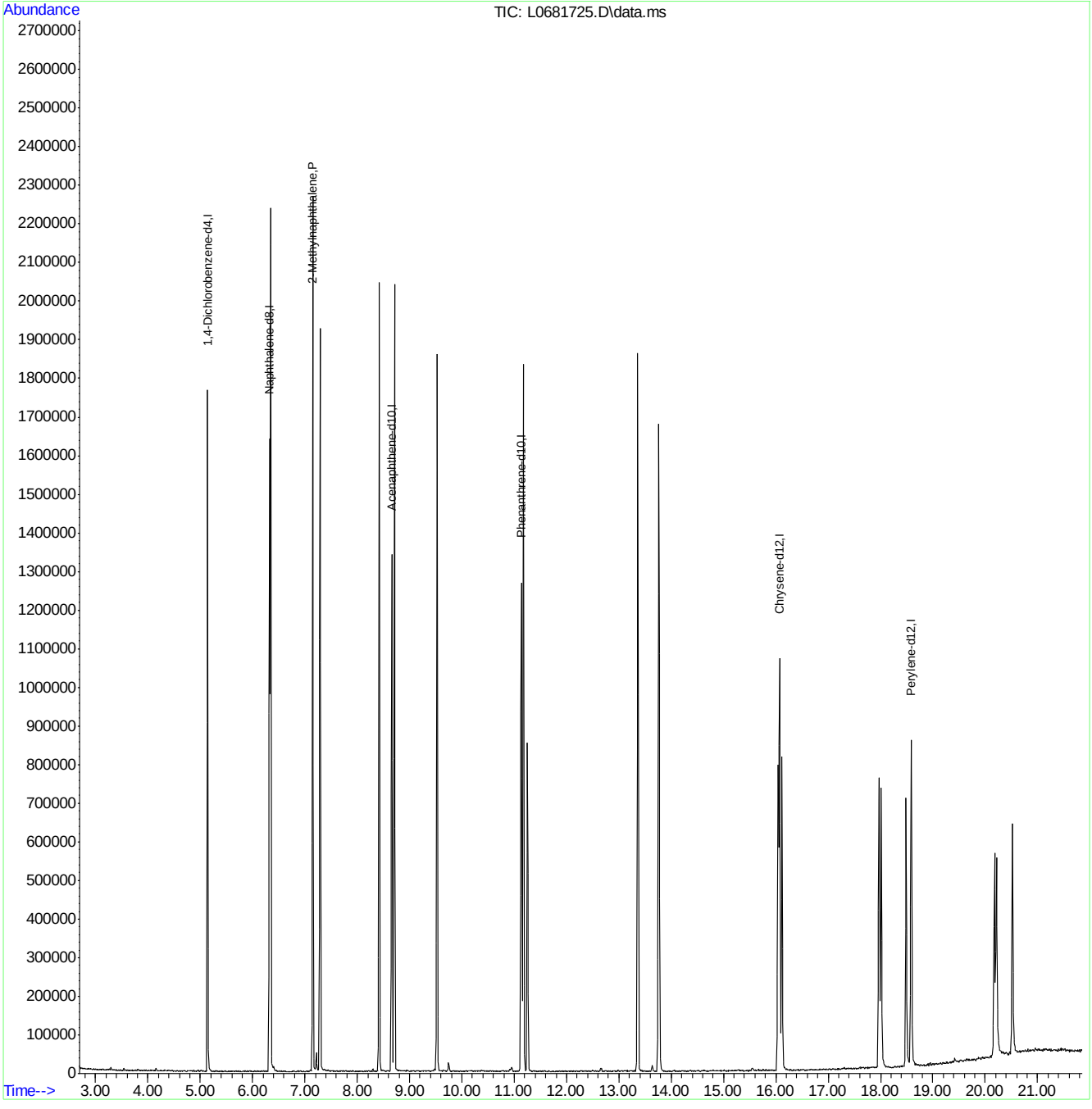
7.6.10

7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\sl3630\
Data File : L0681725.D
Acq On : 3 Apr 2015 4:25 pm
Operator : marthav
Sample : icv3629-50 2-methylnaphtalene
Misc : op55582,sl3630,30.0,,,1,1,soil
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Apr 06 11:43:10 2015
Quant Method : C:\msdchem\1\METHODS\8270da0402.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Thu Apr 02 15:27:09 2015
Response via : Initial Calibration



8270da0402.m Mon Apr 06 13:22:36 2015 Page: 2

Manual Integrations APPROVED (compounds with "m" flag)
Mike Eger
04/07/15 11:34

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\sl3631\
Data File : L0681730.D
Acq On : 6 Apr 2015 9:58 am
Operator : marthav
Sample : cc3629-50
Misc : op55582,sl3631,30.0,,,1,1,soil
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Apr 07 07:52:47 2015
Quant Method : C:\msdchem\1\METHODS\8270da0402.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Thu Apr 02 15:27:09 2015
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	5.141	152	226762	40.00	ppm	0.00
22) Naphthalene-d8	6.327	136	755123	40.00	ppm	0.00
42) Acenaphthene-d10	8.662	164	442706	40.00	ppm	0.00
68) Phenanthrene-d10	11.141	188	811657	40.00	ppm	0.00
84) Chrysene-d12	16.082	240	628562	40.00	ppm	0.00
93) Perylene-d12	18.598	264	550624	40.00	ppm	0.00

System Monitoring Compounds

7) 2-Fluorophenol	4.185	112	892767	100.13	ppm	0.00
Spiked Amount 100.000	Range 40 - 102		Recovery = 100.13%			
9) Phenol-d5	4.885	99	934332	97.79	ppm	0.00
Spiked Amount 100.000	Range 41 - 100		Recovery = 97.79%			
23) Nitrobenzene-d5	5.638	82	424242	50.88	ppm	0.00
Spiked Amount 50.000	Range 40 - 105		Recovery = 101.76%			
46) 2-Fluorobiphenyl	7.668	172	715838	49.42	ppm	0.00
Spiked Amount 50.000	Range 43 - 107		Recovery = 98.84%			
73) 2,4,6-Tribromophenol	9.976	330	291415	97.57	ppm	0.00
Spiked Amount 100.000	Range 42 - 108		Recovery = 97.57%			
87) Terphenyl-d14	14.175	244	769411	52.81	ppm	0.00
Spiked Amount 50.000	Range 45 - 119		Recovery = 105.62%			

Target Compounds						Qvalue
2) 1,4-Dioxane	2.743	88	272185	50.24	ppm	97
3) N-nitrosodimethylamine	3.063	42	303298	49.35	ppm	96
4) Pyridine	3.063	79	637726	49.46	ppm	97
5) Benzaldehyde	4.800	106	418888	53.61	ppm	99
6) Aniline	4.912	93	613600	47.76	ppm	95
8) bis(2-Chloroethyl)ether	4.949	93	424402	48.57	ppm	96
10) Phenol	4.896	94	590011	49.22	ppm	100
11) 2-Chlorophenol	5.003	128	388986	47.82	ppm	96
12) 1,3-Dichlorobenzene	5.115	146	450159	49.55	ppm	99
13) 1,4-Dichlorobenzene	5.157	146	424092	49.86	ppm	98
14) 1,2-Dichlorobenzene	5.312	146	406321	48.97	ppm	99
15) Benzyl alcohol	5.264	108	300836	49.86	ppm	96
16) bis(2-chloroisopropyl)...	5.393	45	742167	47.42	ppm	97
17) 2-Methylphenol	5.371	108	385105	49.02	ppm	98
18) Acetophenone	5.499	105	550711	49.75	ppm	98
19) Hexachloroethane	5.580	117	170869	49.80	ppm	97
20) N-Nitroso-di-n-propyla...	5.515	70	270954	48.61	ppm	95
21) 3&4-Methylphenol	5.494	108	436086	51.67	ppm	99
24) Nitrobenzene	5.654	77	428583	51.55	ppm	98
25) Isophorone	5.863	82	798522	51.47	ppm	97
26) 2-Nitrophenol	5.953	139	212141	50.76	ppm	97
27) 2,4-Dimethylphenol	5.980	107	371730	51.19	ppm	99
28) bis(2-Chloroethoxy)met...	6.071	93	486741	50.85	ppm	99
29) Benzoic Acid	6.087	105	304144m	49.53	ppm	
30) 2,4-Dichlorophenol	6.183	162	304817	49.77	ppm	100
31) 1,2,4-Trichlorobenzene	6.279	180	349177	50.04	ppm	98
33) Naphthalene	6.349	128	951532	50.42	ppm	100
34) 4-Chloroaniline	6.418	127	490685	52.17	ppm	97

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\sl3631\
Data File : L0681730.D
Acq On : 6 Apr 2015 9:58 am
Operator : marthav
Sample : cc3629-50
Misc : op55582,sl3631,30.0,,,1,1,soil
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Apr 07 07:52:47 2015
Quant Method : C:\msdchem\1\METHODS\8270da0402.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Thu Apr 02 15:27:09 2015
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
35) 2,6-Dichlorophenol	6.429	162	296136	51.04	ppm		98
36) Hexachlorobutadiene	6.541	225	184369	51.69	ppm		98
37) Caprolactam	6.787	113	137418	51.22	ppm		93
38) 4-Chloro-3-methylphenol	6.979	107	354185	52.49	ppm		99
39) 2-Methylnaphthalene	7.150	142	753162	51.07	ppm		98
40) 1-Methylnaphthalene	7.294	142	656150	51.19	ppm		98
41) 1,2,4,5-Tetrachloroben...	7.428	216	331319	51.47	ppm		97
43) Hexachlorocyclopentadiene	7.455	237	217501	50.28	ppm		99
44) 2,4,6-Trichlorophenol	7.561	196	230042	49.85	ppm		98
45) 2,4,5-Trichlorophenol	7.615	196	233934	48.81	ppm		97
47) 1,1'-Biphenyl	7.791	154	858464	50.01	ppm		100
48) 2-Chloronaphthalene	7.807	162	617052	48.96	ppm		100
49) 2-Nitroaniline	7.994	65	262941	54.55	ppm		97
50) p-Dinitrobenzene	8.160	75	172800	54.42	ppm		96
51) Acenaphthylene	8.427	152	1015948	49.63	ppm		99
52) Dimethylphthalate	8.331	163	735975	50.80	ppm		100
53) m-Dinitrobenzene	8.336	168	140696	53.35	ppm		95
54) 2,6-Dinitrotoluene	8.422	165	183457	53.10	ppm		96
55) o-Dinitrobenzene	8.523	50	141239	52.67	ppm		95
56) Acenaphthene	8.715	153	606811	48.59	ppm		97
57) 3-Nitroaniline	8.630	138	229061	50.56	ppm		94
58) 2,4-Dinitrophenol	8.785	184	108754	47.65	ppm		91
59) Dibenzofuran	8.966	168	874034	49.31	ppm		99
60) 2,4-Dinitrotoluene	9.041	165	226939	51.07	ppm		94
61) 4-Nitrophenol	8.924	109	96967	53.07	ppm	#	86
62) 2,3,5,6-Tetrachlorophenol	9.169	232	216608	51.99	ppm		97
63) 2,3,4,6-Tetrachlorophenol	9.244	232	206758	51.17	ppm		97
64) Fluorene	9.533	166	726439	49.82	ppm		99
65) 4-Chlorophenyl-phenyle...	9.554	204	316239	49.44	ppm		100
66) Diethylphthalate	9.490	149	745751	51.14	ppm		100
67) 4-Nitroaniline	9.640	138	218370	51.76	ppm		95
69) 4,6-Dinitro-2-methylph...	9.714	198	141271	50.55	ppm		95
70) n-Nitrosodiphenylamine	9.773	169	588512	56.56	ppm		97
71) Diphenylamine	9.773	169	588512	47.13	ppm		97
72) 1,2-Diphenylhydrazine	9.816	77	790940	47.60	ppm		98
74) 4-Bromophenyl-phenylether	10.387	248	222741	47.56	ppm		97
75) Hexachlorobenzene	10.617	284	258613	46.59	ppm		97
76) Simazine	10.724	201	104388	46.55	ppm		95
77) Atrazine	10.804	200	199836	48.13	ppm		92
78) Pentachlorophenol	10.943	266	170902	49.23	ppm		99
79) Phenanthrene	11.183	178	1012421	47.57	ppm		99
80) Anthracene	11.264	178	1000899	47.42	ppm		99
81) Carbazole	11.584	167	1010818	47.31	ppm		99
82) Di-n-butylphthalate	12.439	149	1248698	47.99	ppm		99
83) Fluoranthene	13.368	202	1153974	48.99	ppm		99
85) Benzidine	13.684	184	699712	58.92	ppm		97
86) Pyrene	13.769	202	1055286	50.39	ppm		98
88) Butylbenzylphthalate	15.238	149	580799	56.05	ppm		98
89) 3,3'-Dichlorobenzidine	16.104	252	366111	55.96	ppm		98
90) Benzo[a]anthracene	16.050	228	1005141	53.33	ppm		99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\sl3631\
Data File : L0681730.D
Acq On : 6 Apr 2015 9:58 am
Operator : marthav
Sample : cc3629-50
Misc : op55582,sl3631,30.0,,,1,1,soil
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Apr 07 07:52:47 2015
Quant Method : C:\msdchem\1\METHODS\8270da0402.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Thu Apr 02 15:27:09 2015
Response via : Initial Calibration

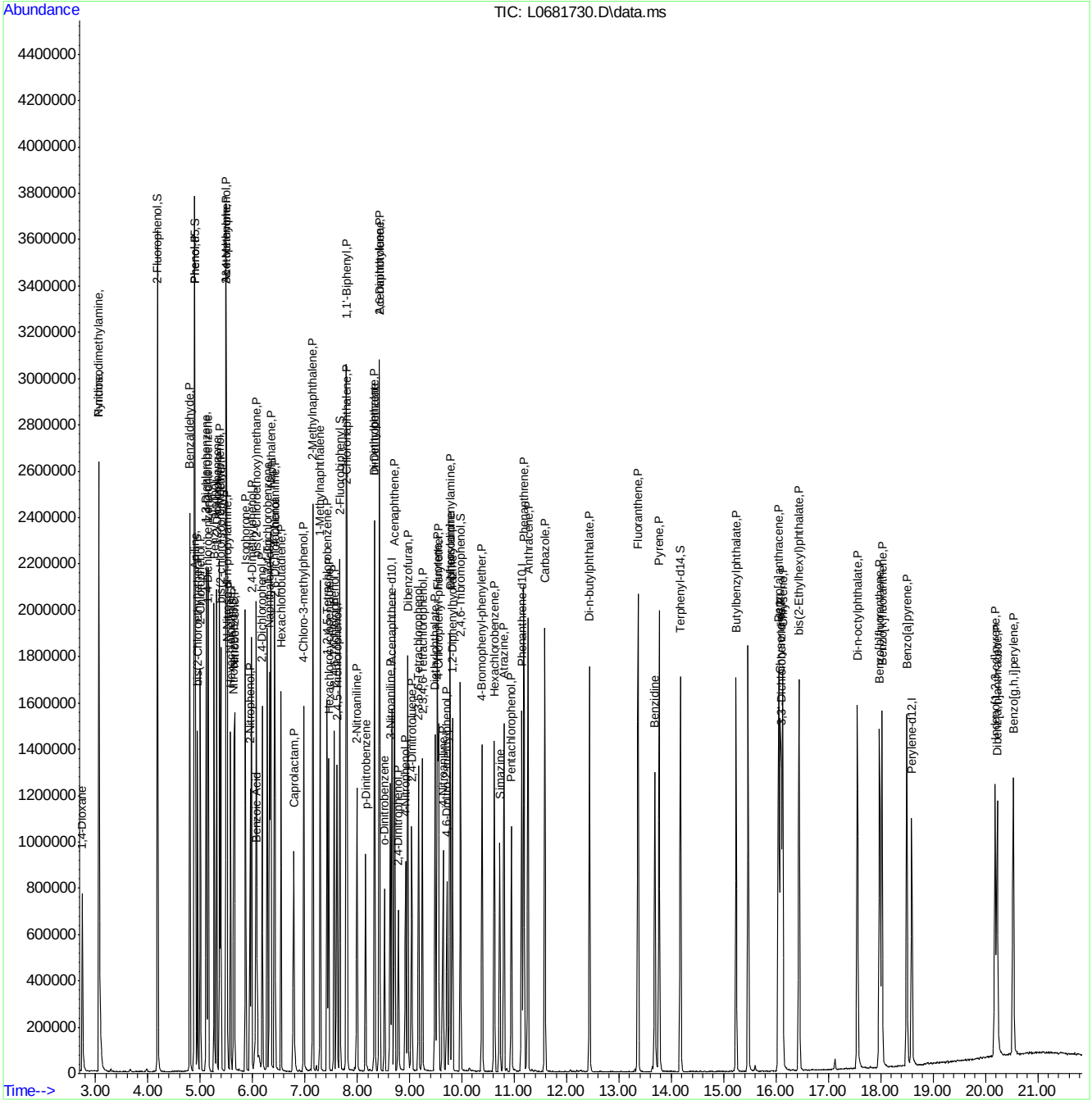
Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
91) Chrysene	16.130	228	798361	52.52 ppm	99
92) bis(2-Ethylhexyl)phtha...	16.440	149	676164	55.33 ppm	99
94) Di-n-octylphthalate	17.551	149	1167659	55.93 ppm	99
95) Benzo[b]fluoranthene	17.984	252	952623	54.85 ppm	99
96) Benzo[k]fluoranthene	18.027	252	808646	49.97 ppm	99
97) Benzo[a]pyrene	18.502	252	883038	52.81 ppm	100
98) Indeno[1,2,3-cd]pyrene	20.190	276	697889	53.09 ppm	99
99) Dibenz[a,h]anthracene	20.228	278	653559	53.02 ppm	97
100) Benzo[g,h,i]perylene	20.538	276	726987	52.67 ppm	97

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\sl3631\
Data File : L0681730.D
Acq On : 6 Apr 2015 9:58 am
Operator : marthav
Sample : cc3629-50
Misc : op55582,sl3631,30.0,,,1,1,soil
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Apr 07 07:52:47 2015
Quant Method : C:\msdchem\1\METHODS\8270da0402.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Thu Apr 02 15:27:09 2015
Response via : Initial Calibration



ACCUTEST LABORATORIES FA23258

Manual Integration Approval Summary

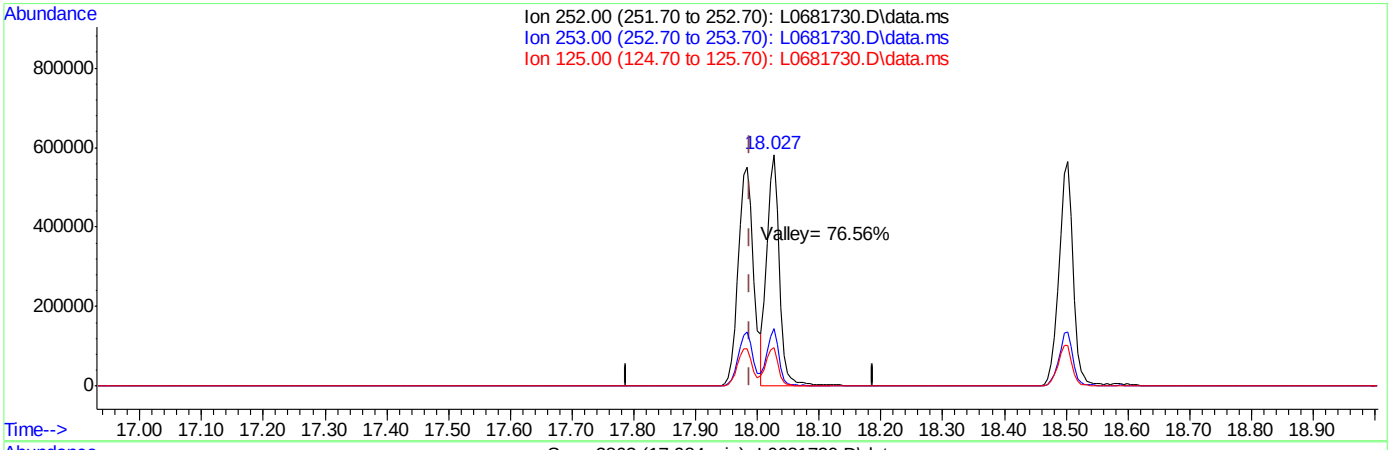
Sample Number:	SL3631-CC3629	**Method:**	SW846 8270D
Lab FileID:	L0681730.D	**Analyst approved:**	04/07/15 08:59 Martha Valls
Injection Time:	04/06/15 09:58	**Supervisor approved:**	04/07/15 11:34 Mike Eger

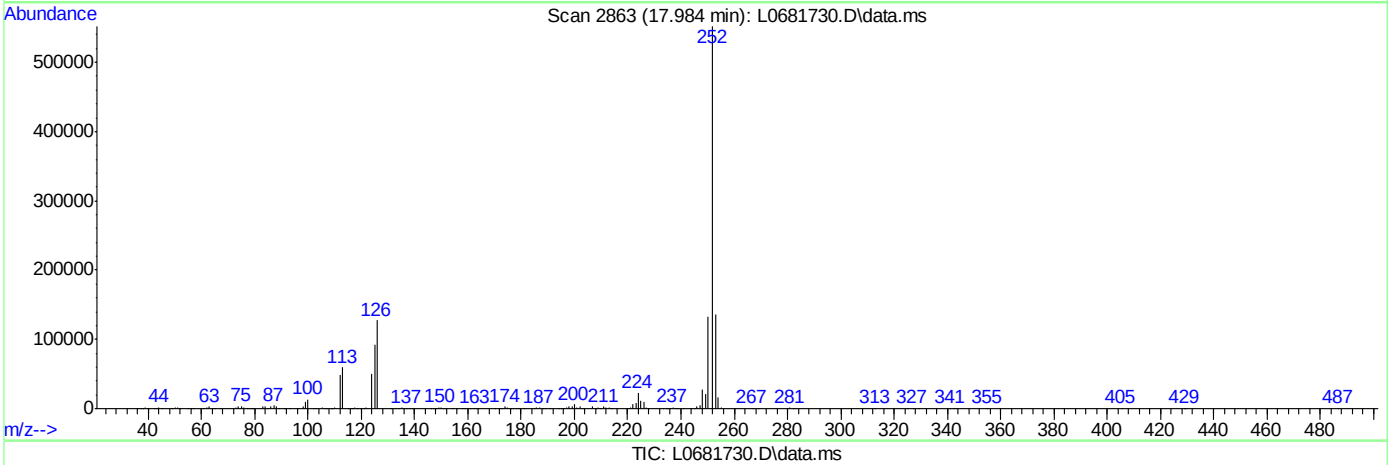
Parameter	CAS	Sig#	R.T. (min.)	Reason
Benzoic Acid	65-85-0		6.09	Split peak

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\sl3631\
Data File : L0681730.D
Acq On : 6 Apr 2015 9:58 am
Operator : marthav
Sample : cc3629-50
Misc : op55582,sl3631,30.0,,,1,1,soil
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Apr 06 10:21:29 2015
Quant Method : C:\msdchem\1\METHODS\8270da0402.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Thu Apr 02 15:27:09 2015
Response via : Initial Calibration





TIC: L0681730.D\data.ms

(95) Benzo[b]fluoranthene (P)

17.984min (-0.004) 54.85ppm

response 952623

Ion	Exp%	Act%
252.00	100	100
253.00	25.20	24.80
125.00	16.70	16.50
0.00	0.00	0.00

Manual Integrations
APPROVED
(compounds with "m" flag)
Mike Eger
04/07/15 13:18

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\sl3631\
Data File : L0681755.D
Acq On : 6 Apr 2015 10:48 pm
Operator : marthav
Sample : ecc3629-50
Misc : op55410,sl3631,1000,,,1,1,water
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Apr 07 08:13:52 2015
Quant Method : C:\msdchem\1\METHODS\8270da0402.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Thu Apr 02 15:27:09 2015
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	5.145	152	199005	40.00	ppm	0.00
22) Naphthalene-d8	6.326	136	702946	40.00	ppm	0.00
42) Acenaphthene-d10	8.666	164	414747	40.00	ppm	0.00
68) Phenanthrene-d10	11.139	188	756121	40.00	ppm	0.00
84) Chrysene-d12	16.081	240	524064	40.00	ppm	0.00
93) Perylene-d12	18.597	264	496892	40.00	ppm	0.00

System Monitoring Compounds

7) 2-Fluorophenol	4.184	112	773017	98.79	ppm	0.00
Spiked Amount 100.000	Range 14 - 67		Recovery = 98.79%#			
9) Phenol-d5	4.889	99	843577	100.61	ppm	0.00
Spiked Amount 100.000	Range 10 - 50		Recovery = 100.61%#			
23) Nitrobenzene-d5	5.637	82	394977	50.89	ppm	0.00
Spiked Amount 50.000	Range 42 - 108		Recovery = 101.78%			
46) 2-Fluorobiphenyl	7.667	172	655819	48.33	ppm	0.00
Spiked Amount 50.000	Range 40 - 106		Recovery = 96.66%			
73) 2,4,6-Tribromophenol	9.975	330	275704	99.09	ppm	0.00
Spiked Amount 100.000	Range 33 - 118		Recovery = 99.09%			
87) Terphenyl-d14	14.174	244	699992	57.63	ppm	0.00
Spiked Amount 50.000	Range 39 - 121		Recovery = 115.26%			

Target Compounds

						Qvalue
2) 1,4-Dioxane	2.741	88	231029	48.59	ppm	96
3) N-nitrosodimethylamine	3.062	42	276821	51.33	ppm	94
4) Pyridine	3.067	79	526561	46.53	ppm	98
5) Benzaldehyde	4.798	106	304763	41.85	ppm	94
6) Aniline	4.910	93	550569	48.83	ppm	94
8) bis(2-Chloroethyl)ether	4.948	93	394943	51.50	ppm	95
10) Phenol	4.894	94	524429	49.85	ppm	100
11) 2-Chlorophenol	5.001	128	350240	49.06	ppm	94
12) 1,3-Dichlorobenzene	5.113	146	387675	48.62	ppm	97
13) 1,4-Dichlorobenzene	5.156	146	383280	51.35	ppm	98
14) 1,2-Dichlorobenzene	5.311	146	371599	51.03	ppm	98
15) Benzyl alcohol	5.268	108	257214	48.57	ppm	99
16) bis(2-chloroisopropyl)...	5.396	45	716563	52.17	ppm	100
17) 2-Methylphenol	5.370	108	351412	50.97	ppm	99
18) Acetophenone	5.498	105	509941	52.49	ppm	99
19) Hexachloroethane	5.578	117	160038	53.15	ppm	92
20) N-Nitroso-di-n-propyla...	5.514	70	264080	53.98	ppm	96
21) 3&4-Methylphenol	5.493	108	387954	52.38	ppm	98
24) Nitrobenzene	5.653	77	386084	49.89	ppm	97
25) Isophorone	5.861	82	740204	51.25	ppm	96
26) 2-Nitrophenol	5.952	139	195952	50.37	ppm	93
27) 2,4-Dimethylphenol	5.979	107	349588	51.72	ppm	98
28) bis(2-Chloroethoxy)met...	6.069	93	471430	52.90	ppm	98
29) Benzoic Acid	6.085	105	273006m	47.76	ppm	
30) 2,4-Dichlorophenol	6.187	162	280505	49.20	ppm	98
31) 1,2,4-Trichlorobenzene	6.278	180	315097	48.50	ppm	98
33) Naphthalene	6.347	128	881054	50.15	ppm	99
34) 4-Chloroaniline	6.417	127	450032	51.39	ppm	96

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\sl3631\
Data File : L0681755.D
Acq On : 6 Apr 2015 10:48 pm
Operator : marthav
Sample : ecc3629-50
Misc : op55410,sl3631,1000,,,1,1,water
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Apr 07 08:13:52 2015
Quant Method : C:\msdchem\1\METHODS\8270da0402.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Thu Apr 02 15:27:09 2015
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
35) 2,6-Dichlorophenol	6.433	162	272430	50.44	ppm		99
36) Hexachlorobutadiene	6.540	225	169048	50.91	ppm		97
37) Caprolactam	6.785	113	127548	51.07	ppm		93
38) 4-Chloro-3-methylphenol	6.978	107	332162	52.88	ppm		100
39) 2-Methylnaphthalene	7.154	142	691750	50.38	ppm		99
40) 1-Methylnaphthalene	7.293	142	588622	49.33	ppm		98
41) 1,2,4,5-Tetrachloroben...	7.426	216	298007	49.73	ppm		100
43) Hexachlorocyclopentadiene	7.453	237	176983	43.67	ppm		99
44) 2,4,6-Trichlorophenol	7.560	196	210477	48.69	ppm		99
45) 2,4,5-Trichlorophenol	7.613	196	217076	48.35	ppm		98
47) 1,1'-Biphenyl	7.790	154	795216	49.45	ppm		99
48) 2-Chloronaphthalene	7.806	162	581761	49.27	ppm		98
49) 2-Nitroaniline	7.993	65	243762	53.98	ppm		95
50) p-Dinitrobenzene	8.158	75	156795	52.71	ppm		96
51) Acenaphthylene	8.425	152	944014	49.22	ppm		100
52) Dimethylphthalate	8.329	163	687928	50.69	ppm		100
53) m-Dinitrobenzene	8.335	168	128044	51.83	ppm		85
54) 2,6-Dinitrotoluene	8.420	165	167069	51.61	ppm		95
55) o-Dinitrobenzene	8.522	50	127273	50.67	ppm		96
56) Acenaphthene	8.714	153	592558	50.65	ppm		99
57) 3-Nitroaniline	8.628	138	214486	50.54	ppm		93
58) 2,4-Dinitrophenol	8.789	184	80033	38.05	ppm		98
59) Dibenzofuran	8.965	168	816974	49.19	ppm		85
60) 2,4-Dinitrotoluene	9.040	165	211661	50.84	ppm		95
61) 4-Nitrophenol	8.928	109	87098	50.88	ppm	#	86
62) 2,3,5,6-Tetrachlorophenol	9.173	232	195985	50.22	ppm		99
63) 2,3,4,6-Tetrachlorophenol	9.248	232	185853	49.10	ppm		96
64) Fluorene	9.531	166	683577	50.04	ppm		100
65) 4-Chlorophenyl-phenyle...	9.553	204	301481	50.31	ppm		99
66) Diethylphthalate	9.483	149	711081	52.05	ppm		99
67) 4-Nitroaniline	9.638	138	202816	51.31	ppm		98
69) 4,6-Dinitro-2-methylph...	9.713	198	110364	42.39	ppm		92
70) n-Nitrosodiphenylamine	9.772	169	555724	57.33	ppm		98
71) Diphenylamine	9.772	169	555724	47.77	ppm		98
72) 1,2-Diphenylhydrazine	9.814	77	741189	47.88	ppm		95
74) 4-Bromophenyl-phenylether	10.386	248	210474	48.24	ppm		99
75) Hexachlorobenzene	10.616	284	244696	47.32	ppm		97
76) Simazine	10.722	201	97193	46.53	ppm		97
77) Atrazine	10.803	200	177548	45.90	ppm		87
78) Pentachlorophenol	10.947	266	154005	47.62	ppm		97
79) Phenanthrene	11.182	178	937600	47.29	ppm		97
80) Anthracene	11.262	178	919552	46.77	ppm		99
81) Carbazole	11.588	167	915451	45.99	ppm		99
82) Di-n-butylphthalate	12.437	149	1183599	48.83	ppm		100
83) Fluoranthene	13.367	202	1048702	47.79	ppm		96
85) Benzidine	13.687	184	537269	53.23	ppm		98
86) Pyrene	13.768	202	964247	55.22	ppm		97
88) Butylbenzylphthalate	15.237	149	519509	60.13	ppm		98
89) 3,3'-Dichlorobenzidine	16.102	252	304693	55.86	ppm		99
90) Benzo[a]anthracene	16.049	228	892628	56.81	ppm		99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\sl3631\
Data File : L0681755.D
Acq On : 6 Apr 2015 10:48 pm
Operator : marthav
Sample : ecc3629-50
Misc : op55410,sl3631,1000,,,1,1,water
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Apr 07 08:13:52 2015
Quant Method : C:\msdchem\1\METHODS\8270da0402.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Thu Apr 02 15:27:09 2015
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
91) Chrysene	16.129	228	706792	55.77 ppm	100
92) bis(2-Ethylhexyl)phtha...	16.439	149	614344	60.29 ppm	100
94) Di-n-octylphthalate	17.550	149	1023361	54.32 ppm	97
95) Benzo[b]fluoranthene	17.982	252	821352	52.41 ppm	98
96) Benzo[k]fluoranthene	18.025	252	697541	47.77 ppm	98
97) Benzo[a]pyrene	18.501	252	775771	51.42 ppm	99
98) Indeno[1,2,3-cd]pyrene	20.189	276	663328	55.91 ppm	99
99) Dibenz[a,h]anthracene	20.226	278	606184	54.49 ppm	97
100) Benzo[g,h,i]perylene	20.536	276	648663	52.08 ppm	99

(#) = qualifier out of range (m) = manual integration (+) = signals summed

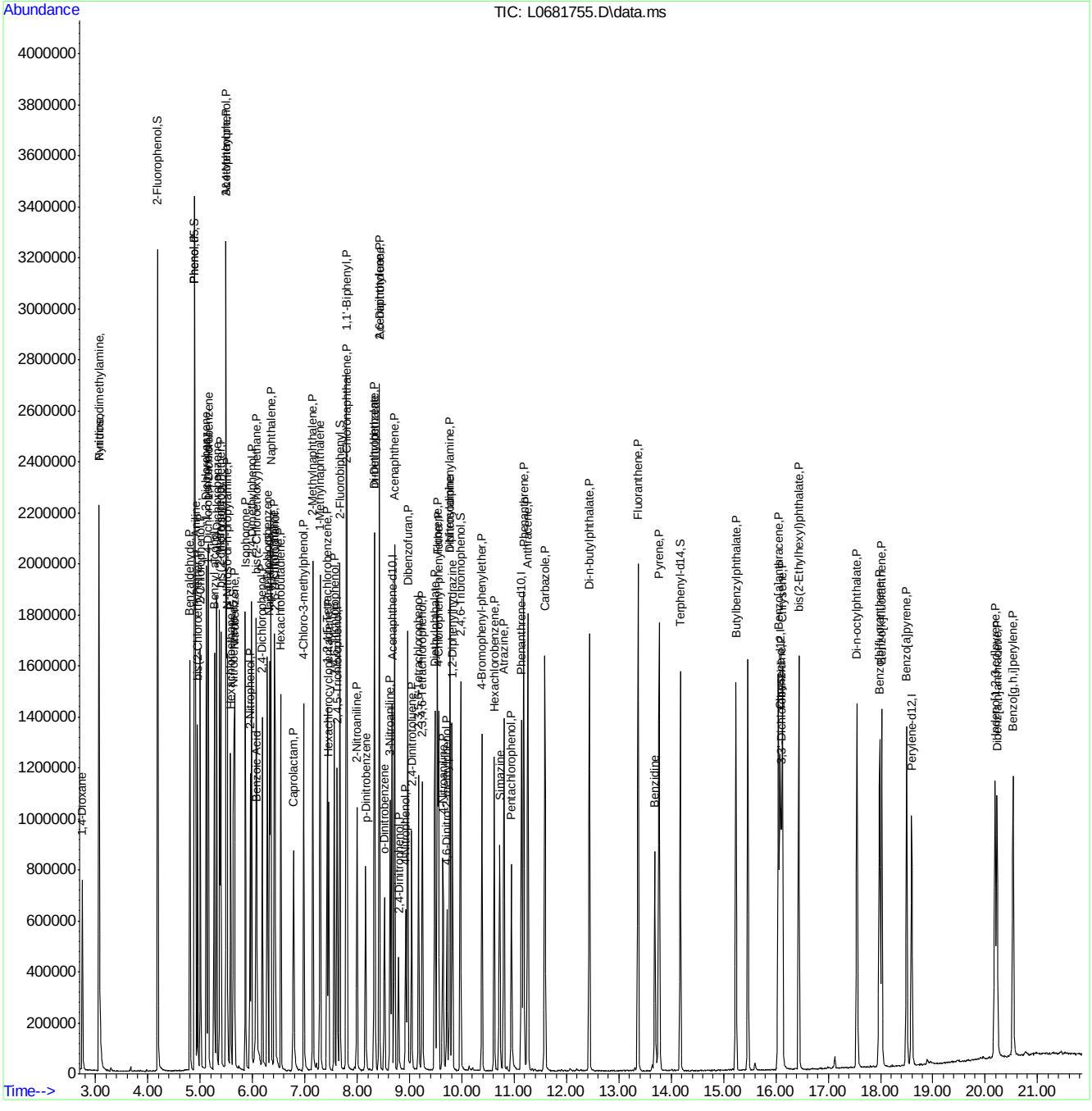
7.6.12

7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\sl3631\
Data File : L0681755.D
Acq On : 6 Apr 2015 10:48 pm
Operator : marthav
Sample : ecc3629-50
Misc : op55410,sl3631,1000,,,1,1,water
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Apr 07 08:13:52 2015
Quant Method : C:\msdchem\1\METHODS\8270da0402.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Thu Apr 02 15:27:09 2015
Response via : Initial Calibration



ACCUTEST LABORATORIES FA23258

Manual Integration Approval Summary

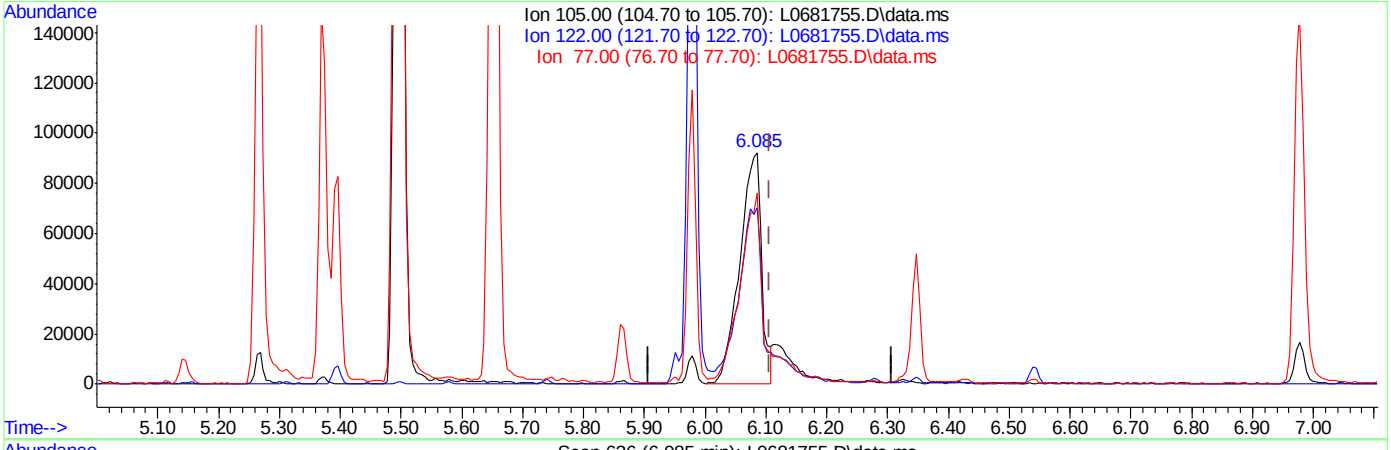
Sample Number:	SL3631-ECC3629	**Method:**	SW846 8270D
Lab FileID:	L0681755.D	**Analyst approved:**	04/07/15 08:59 Martha Valls
Injection Time:	04/06/15 22:48	**Supervisor approved:**	04/07/15 13:18 Mike Eger

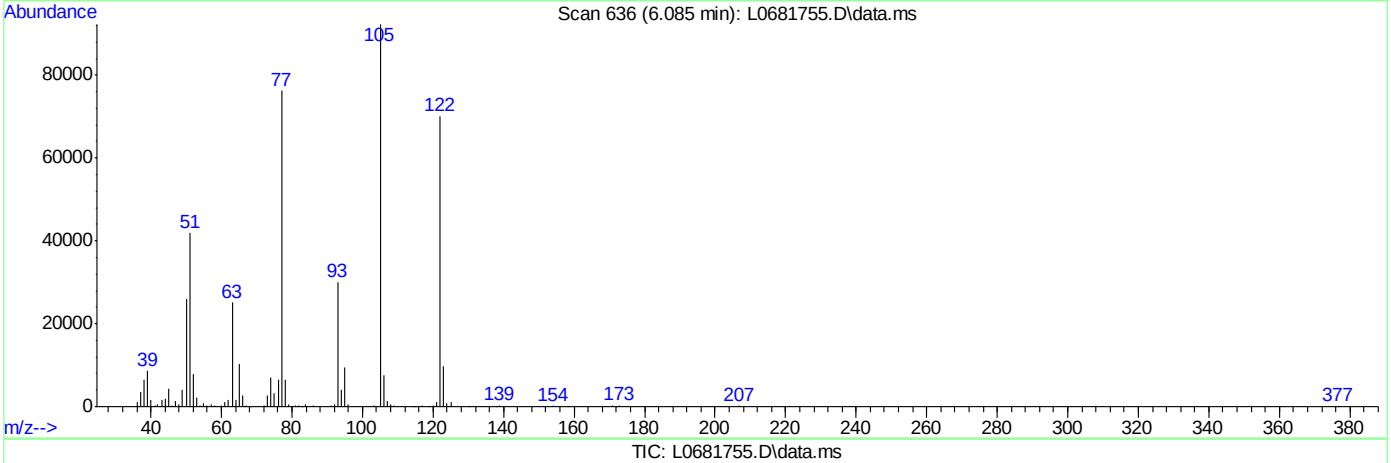
Parameter	CAS	Sig#	R.T. (min.)	Reason
Benzoic Acid	65-85-0		6.09	Split peak

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\sl3631\
Data File : L0681755.D
Acq On : 6 Apr 2015 10:48 pm
Operator : marthav
Sample : ecc3629-50
Misc : op55410,sl3631,1000,,,1,1,water
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Apr 07 07:35:27 2015
Quant Method : C:\msdchem\1\METHODS\8270da0402.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Thu Apr 02 15:27:09 2015
Response via : Initial Calibration





TIC: L0681755.D\data.ms

(29) Benzoic Acid

6.085min (-0.022) 39.57ppm

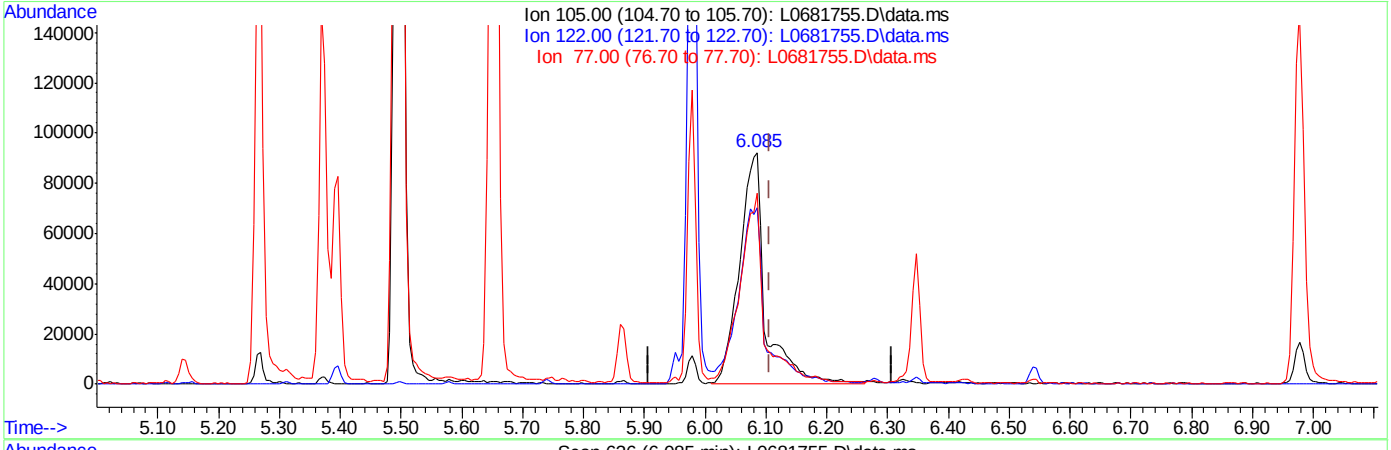
response 226150

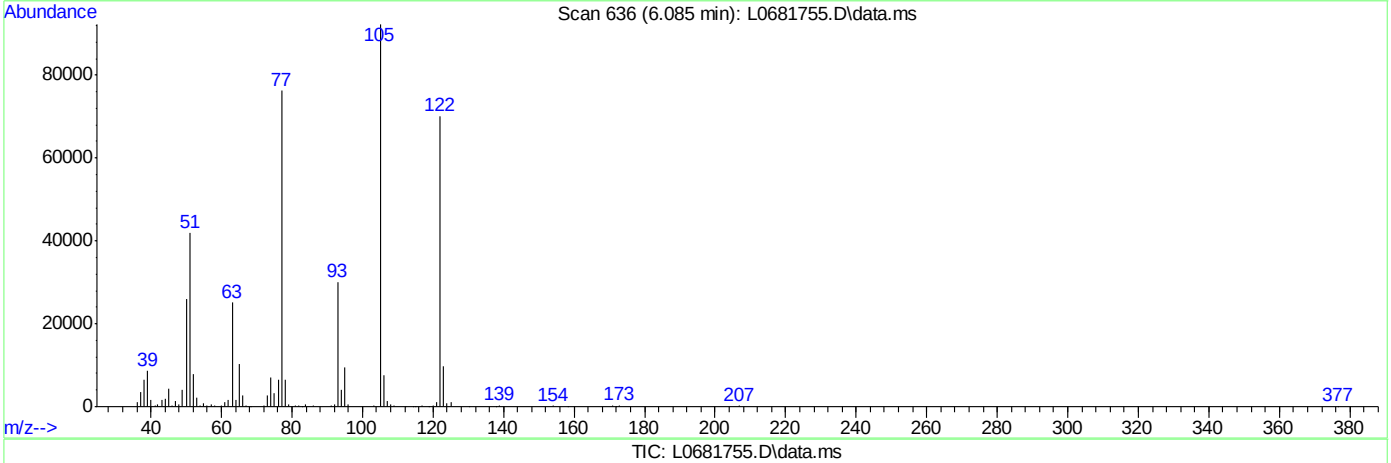
Ion	Exp%	Act%
105.00	100	100
122.00	80.60	71.17
77.00	77.40	81.22
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\sl3631\
Data File : L0681755.D
Acq On : 6 Apr 2015 10:48 pm
Operator : marthav
Sample : ecc3629-50
Misc : op55410,sl3631,1000,,,1,1,water
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Apr 07 07:35:27 2015
Quant Method : C:\msdchem\1\METHODS\8270da0402.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Thu Apr 02 15:27:09 2015
Response via : Initial Calibration





TIC: L0681755.D\data.ms

(29) Benzoic Acid

6.085min (-0.022) 47.76ppm m

response 273006

Ion	Exp%	Act%
105.00	100	100
122.00	80.60	76.03
77.00	77.40	82.58
0.00	0.00	0.00

Manual Integrations APPROVED (compounds with "m" flag)
Mike Eger
04/08/15 17:02

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\sl3632\
Data File : L0681758.D
Acq On : 7 Apr 2015 12:09 pm
Operator : marthav
Sample : cc3629-50
Misc : op55582,sl3632,30.0,,,1,1,soil
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Apr 08 09:31:19 2015
Quant Method : C:\msdchem\1\METHODS\8270da0402.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Thu Apr 02 15:27:09 2015
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	5.130	152	282870	40.00	ppm	-0.02
22) Naphthalene-d8	6.305	136	938058	40.00	ppm	-0.02
42) Acenaphthene-d10	8.645	164	553103	40.00	ppm	-0.02
68) Phenanthrene-d10	11.118	188	980482	40.00	ppm	-0.03
84) Chrysene-d12	16.060	240	745053	40.00	ppm	-0.02
93) Perylene-d12	18.576	264	679161	40.00	ppm	-0.02
System Monitoring Compounds						
7) 2-Fluorophenol	4.173	112	1065241	95.78	ppm	-0.02
Spiked Amount 100.000	Range 40 - 102		Recovery = 95.78%			
9) Phenol-d5	4.873	99	1164696	97.73	ppm	-0.02
Spiked Amount 100.000	Range 41 - 100		Recovery = 97.73%			
23) Nitrobenzene-d5	5.621	82	570017	55.03	ppm	-0.02
Spiked Amount 50.000	Range 40 - 105		Recovery = 110.06%#			
46) 2-Fluorobiphenyl	7.651	172	936538	51.75	ppm	-0.02
Spiked Amount 50.000	Range 43 - 107		Recovery = 103.50%			
73) 2,4,6-Tribromophenol	9.954	330	395690	109.67	ppm	-0.03
Spiked Amount 100.000	Range 42 - 108		Recovery = 109.67%#			
87) Terphenyl-d14	14.152	244	994466	57.59	ppm	-0.03
Spiked Amount 50.000	Range 45 - 119		Recovery = 115.18%			

Target Compounds						Qvalue
2) 1,4-Dioxane	2.736	88	342545	50.69	ppm	95
3) N-nitrosodimethylamine	3.051	42	349447	45.58	ppm	98
4) Pyridine	3.051	79	774621	48.16	ppm	98
5) Benzaldehyde	4.788	106	482143	48.06	ppm	99
6) Aniline	4.894	93	807321	50.37	ppm	87
8) bis(2-Chloroethyl)ether	4.937	93	580199	53.23	ppm	98
10) Phenol	4.884	94	753414	50.38	ppm	94
11) 2-Chlorophenol	4.985	128	525238	51.77	ppm	95
12) 1,3-Dichlorobenzene	5.098	146	584053	51.54	ppm	97
13) 1,4-Dichlorobenzene	5.140	146	556632	52.46	ppm	96
14) 1,2-Dichlorobenzene	5.295	146	537775	51.96	ppm	98
15) Benzyl alcohol	5.252	108	412356	54.78	ppm	96
16) bis(2-chloroisopropyl)...	5.381	45	977547	50.07	ppm	95
17) 2-Methylphenol	5.359	108	532887	54.37	ppm	99
18) Acetophenone	5.482	105	689972	49.97	ppm	99
19) Hexachloroethane	5.562	117	240233	56.12	ppm	99
20) N-Nitroso-di-n-propyla...	5.503	70	374714	53.89	ppm	98
21) 3&4-Methylphenol	5.477	108	580592	55.15	ppm	99
24) Nitrobenzene	5.637	77	550976	53.35	ppm	97
25) Isophorone	5.851	82	1055157	54.75	ppm	96
26) 2-Nitrophenol	5.936	139	300428	57.87	ppm	97
27) 2,4-Dimethylphenol	5.963	107	495087	54.89	ppm	98
28) bis(2-Chloroethoxy)met...	6.054	93	676167	56.86	ppm	98
29) Benzoic Acid	6.086	105	479327m	62.84	ppm	
30) 2,4-Dichlorophenol	6.166	162	431281	56.68	ppm	99
31) 1,2,4-Trichlorobenzene	6.262	180	484431	55.88	ppm	100
33) Naphthalene	6.326	128	1223378	52.18	ppm	97
34) 4-Chloroaniline	6.401	127	660324	56.51	ppm	98

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\sl3632\
Data File : L0681758.D
Acq On : 7 Apr 2015 12:09 pm
Operator : marthav
Sample : cc3629-50
Misc : op55582,sl3632,30.0,,,1,1,soil
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Apr 08 09:31:19 2015
Quant Method : C:\msdchem\1\METHODS\8270da0402.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Thu Apr 02 15:27:09 2015
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
35) 2,6-Dichlorophenol	6.412	162	410468	56.95	ppm		99
36) Hexachlorobutadiene	6.524	225	252128	56.90	ppm		99
37) Caprolactam	6.780	113	186614	55.99	ppm		98
38) 4-Chloro-3-methylphenol	6.962	107	482358	57.55	ppm		97
39) 2-Methylnaphthalene	7.133	142	989915	54.03	ppm		98
40) 1-Methylnaphthalene	7.272	142	863352	54.22	ppm		99
41) 1,2,4,5-Tetrachloroben...	7.405	216	449339	56.19	ppm		97
43) Hexachlorocyclopentadiene	7.432	237	309881	57.33	ppm		97
44) 2,4,6-Trichlorophenol	7.539	196	316548	54.91	ppm		99
45) 2,4,5-Trichlorophenol	7.592	196	317194	52.97	ppm		96
47) 1,1'-Biphenyl	7.774	154	1045844	48.76	ppm		96
48) 2-Chloronaphthalene	7.785	162	823582	52.30	ppm		98
49) 2-Nitroaniline	7.977	65	337975	56.12	ppm		98
50) p-Dinitrobenzene	8.143	75	236148	59.52	ppm		96
51) Acenaphthylene	8.404	152	1286943	50.32	ppm		96
52) Dimethylphthalate	8.313	163	944566	52.19	ppm		98
53) m-Dinitrobenzene	8.319	168	190504	57.82	ppm		97
54) 2,6-Dinitrotoluene	8.404	165	243390	56.38	ppm		95
55) o-Dinitrobenzene	8.506	50	179500	53.58	ppm		97
56) Acenaphthene	8.693	153	838684	53.75	ppm		99
57) 3-Nitroaniline	8.613	138	315022	55.66	ppm		99
58) 2,4-Dinitrophenol	8.768	184	163984	56.65	ppm		97
59) Dibenzofuran	8.944	168	1107301	50.00	ppm		89
60) 2,4-Dinitrotoluene	9.024	165	315184	56.77	ppm		99
61) 4-Nitrophenol	8.906	109	127338	55.78	ppm	#	90
62) 2,3,5,6-Tetrachlorophenol	9.152	232	301838	57.99	ppm		97
63) 2,3,4,6-Tetrachlorophenol	9.227	232	282653	55.99	ppm		96
64) Fluorene	9.510	166	930529	51.08	ppm		99
65) 4-Chlorophenyl-phenyle...	9.537	204	432840	54.17	ppm		98
66) Diethylphthalate	9.467	149	993686	54.55	ppm		99
67) 4-Nitroaniline	9.628	138	290565	55.13	ppm		99
69) 4,6-Dinitro-2-methylph...	9.702	198	202610	60.02	ppm		93
70) n-Nitrosodiphenylamine	9.756	169	769298	61.20	ppm		99
71) Diphenylamine	9.756	169	769298	51.00	ppm		99
72) 1,2-Diphenylhydrazine	9.799	77	1014646	50.55	ppm		95
74) 4-Bromophenyl-phenylether	10.365	248	298836	52.82	ppm		98
75) Hexachlorobenzene	10.600	284	350851	52.32	ppm		98
76) Simazine	10.712	201	138927	51.29	ppm		99
77) Atrazine	10.792	200	246036	49.05	ppm		95
78) Pentachlorophenol	10.926	266	247056	58.91	ppm		98
79) Phenanthrene	11.166	178	1291237	50.23	ppm		98
80) Anthracene	11.241	178	1280942	50.24	ppm		98
81) Carbazole	11.567	167	1264705	49.00	ppm		99
82) Di-n-butylphthalate	12.416	149	1582528	50.35	ppm		97
83) Fluoranthene	13.346	202	1393846	48.99	ppm		98
85) Benzidine	13.666	184	831366	59.09	ppm		98
86) Pyrene	13.752	202	1327097	53.46	ppm		98
88) Butylbenzylphthalate	15.216	149	750090	61.07	ppm		98
89) 3,3'-Dichlorobenzidine	16.081	252	508089	65.52	ppm		97
90) Benzo[a]anthracene	16.028	228	1271439	56.91	ppm		97

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\sl3632\
Data File : L0681758.D
Acq On : 7 Apr 2015 12:09 pm
Operator : marthav
Sample : cc3629-50
Misc : op55582,sl3632,30.0,,,1,1,soil
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Apr 08 09:31:19 2015
Quant Method : C:\msdchem\1\METHODS\8270da0402.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Thu Apr 02 15:27:09 2015
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
91) Chrysene	16.113	228	1043072	57.89 ppm	97
92) bis(2-Ethylhexyl)phtha...	16.417	149	892846	61.63 ppm	97
94) Di-n-octylphthalate	17.534	149	1527228	59.31 ppm	98
95) Benzo[b]fluoranthene	17.961	252	1211175	56.54 ppm	99
96) Benzo[k]fluoranthene	18.009	252	1043157	52.26 ppm	98
97) Benzo[a]pyrene	18.480	252	1133875	54.98 ppm	99
98) Indeno[1,2,3-cd]pyrene	20.173	276	958485	59.11 ppm	98
99) Dibenz[a,h]anthracene	20.210	278	875092	57.55 ppm	95
100) Benzo[g,h,i]perylene	20.520	276	963719	56.61 ppm	98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

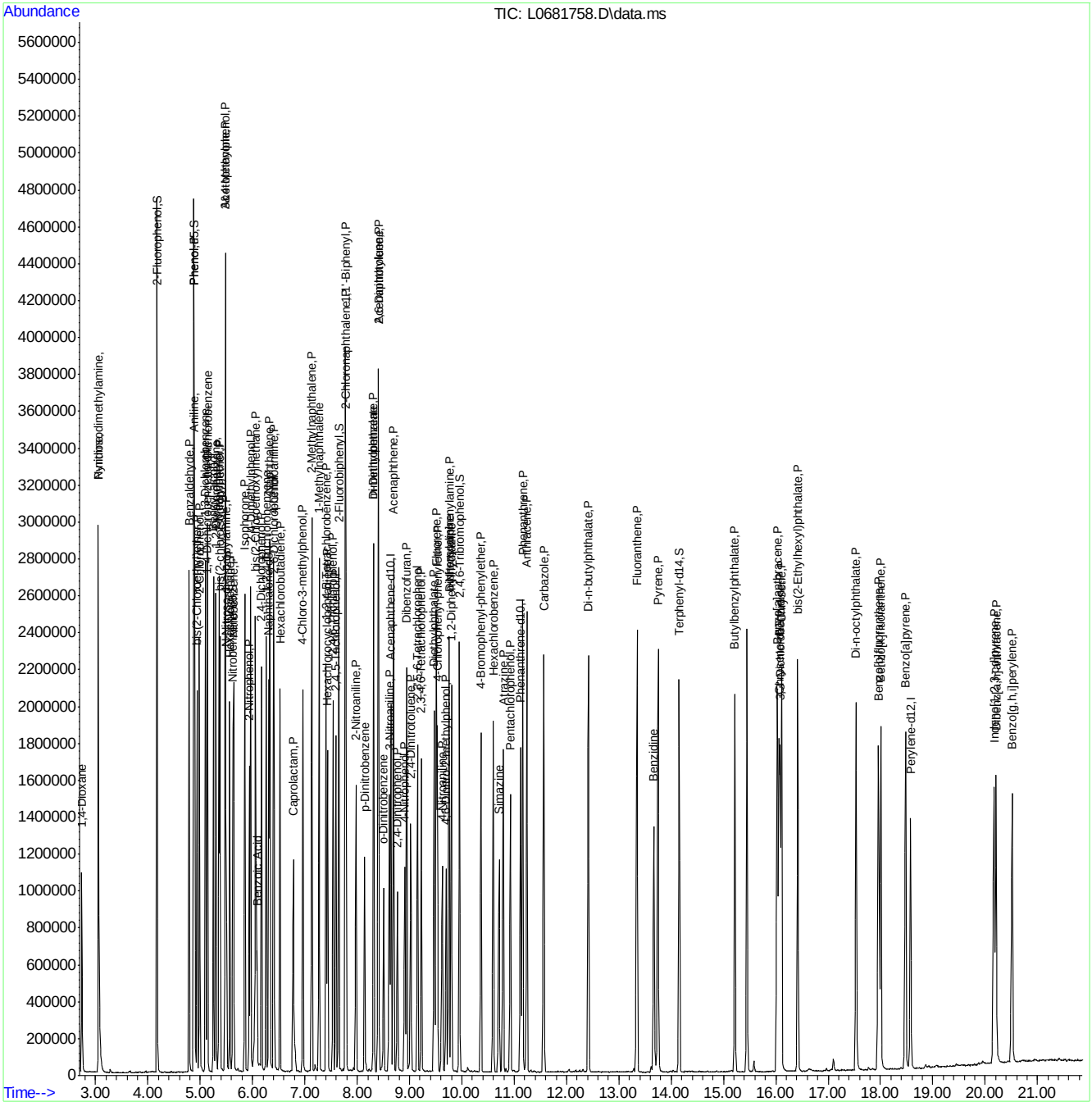
7.6.13

7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\sl3632\
Data File : L0681758.D
Acq On : 7 Apr 2015 12:09 pm
Operator : marthav
Sample : cc3629-50
Misc : op55582,sl3632,30.0,,,1,1,soil
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Apr 08 09:31:19 2015
Quant Method : C:\msdchem\1\METHODS\8270da0402.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Thu Apr 02 15:27:09 2015
Response via : Initial Calibration



ACCUTEST LABORATORIES FA23258

Manual Integration Approval Summary

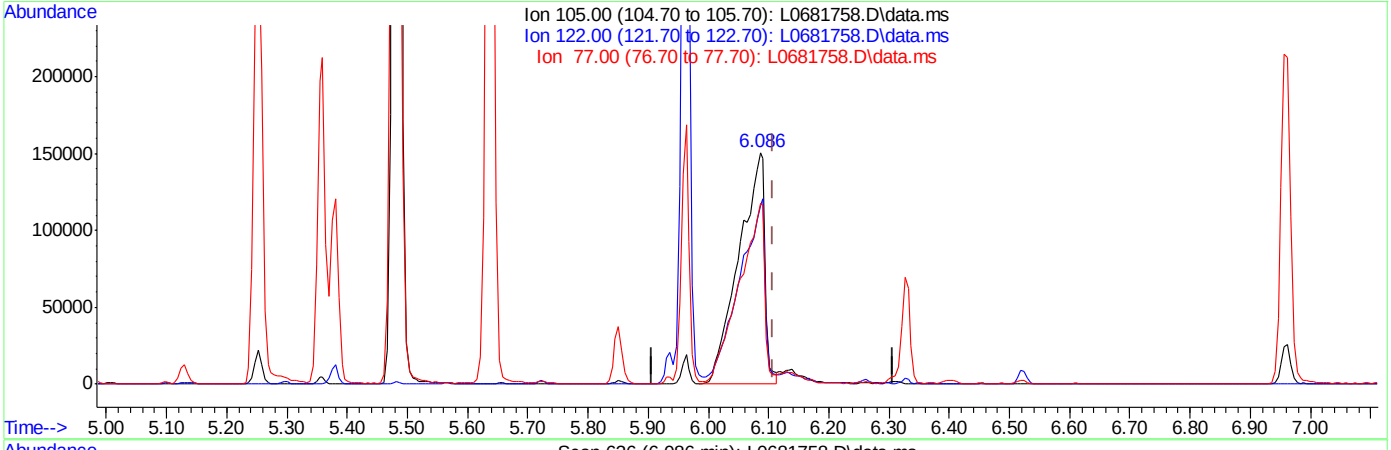
Sample Number:	SL3632-CC3629	**Method:**	SW846 8270D
Lab FileID:	L0681758.D	**Analyst approved:**	04/08/15 10:29 Martha Valls
Injection Time:	04/07/15 12:09	**Supervisor approved:**	04/08/15 17:02 Mike Eger

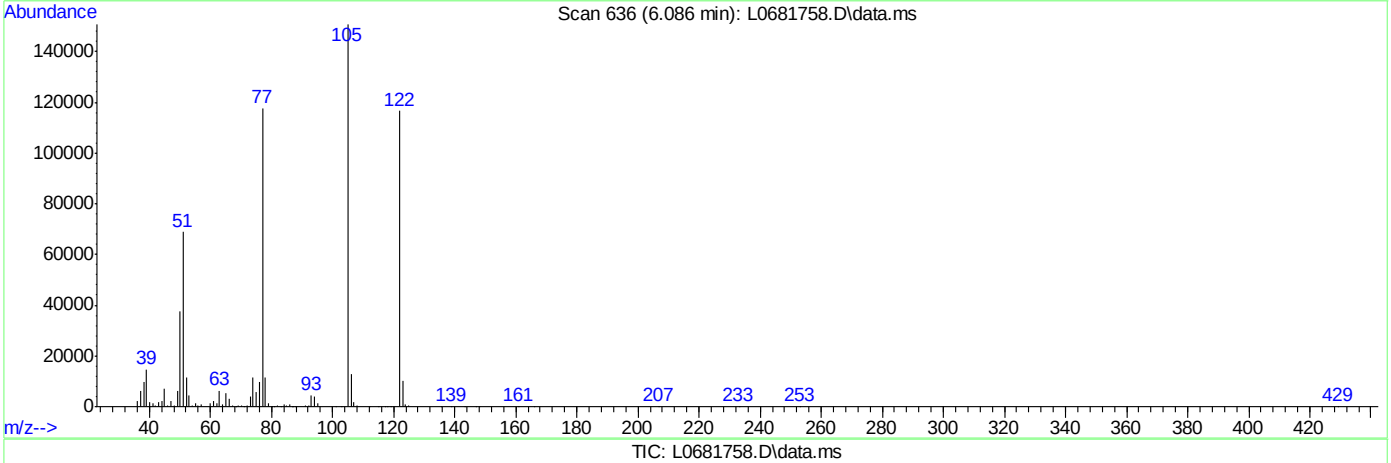
Parameter	CAS	Sig#	R.T. (min.)	Reason
Benzoic Acid	65-85-0		6.09	Split peak

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\sl3632\
Data File : L0681758.D
Acq On : 7 Apr 2015 12:09 pm
Operator : marthav
Sample : cc3629-50
Misc : op55582,sl3632,30.0,,,1,1,soil
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Apr 07 12:31:25 2015
Quant Method : C:\msdchem\1\METHODS\8270da0402.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Thu Apr 02 15:27:09 2015
Response via : Initial Calibration





TIC: L0681758.D\data.ms

(29) Benzoic Acid

6.086min (-0.021) 59.49ppm

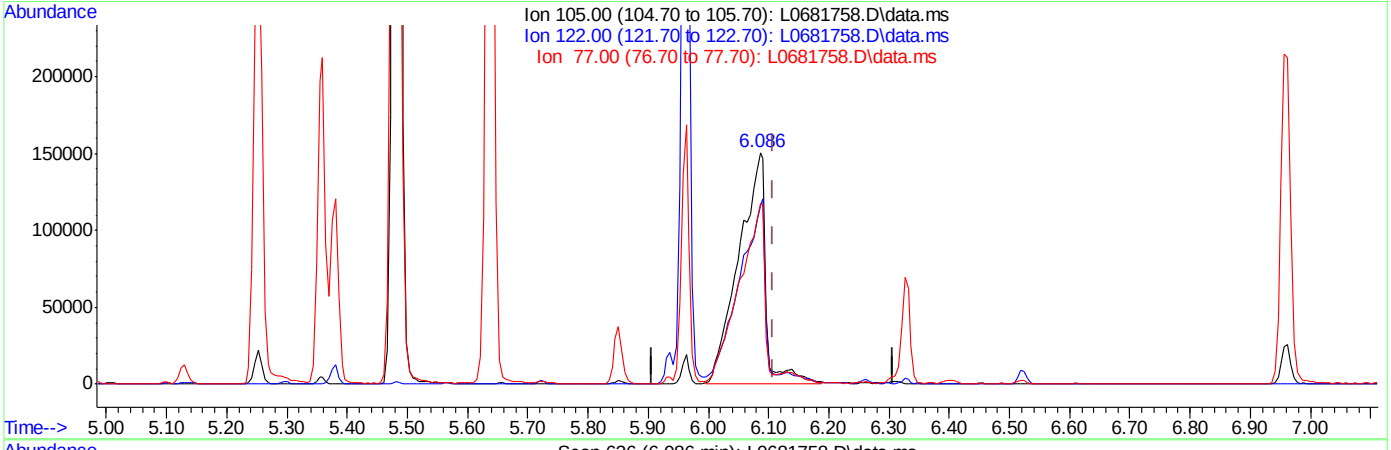
response 453782

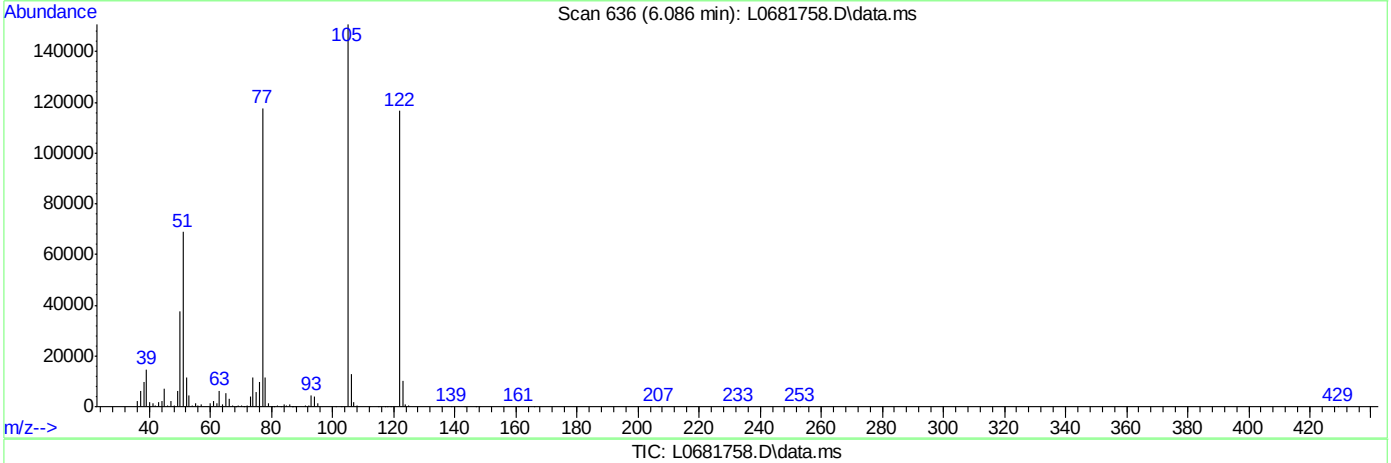
Ion	Exp%	Act%
105.00	100	100
122.00	80.60	75.45
77.00	77.40	77.54
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\sl3632\
Data File : L0681758.D
Acq On : 7 Apr 2015 12:09 pm
Operator : marthav
Sample : cc3629-50
Misc : op55582,sl3632,30.0,,,1,1,soil
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Apr 07 12:31:25 2015
Quant Method : C:\msdchem\1\METHODS\8270da0402.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Thu Apr 02 15:27:09 2015
Response via : Initial Calibration





TIC: L0681758.D\data.ms

(29) Benzoic Acid

6.086min (-0.021) 62.84ppm m

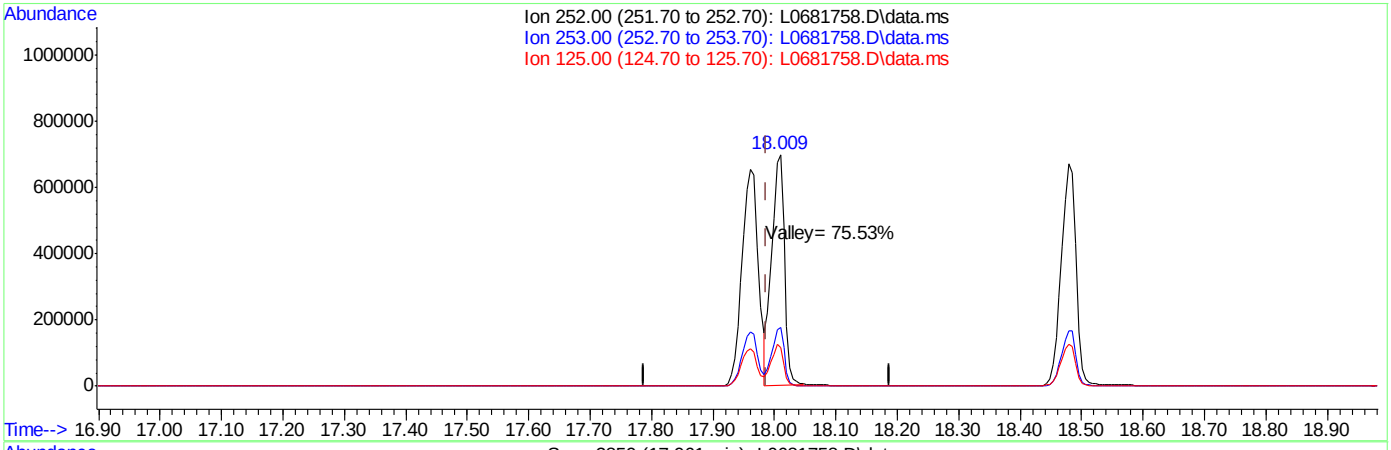
response 479327

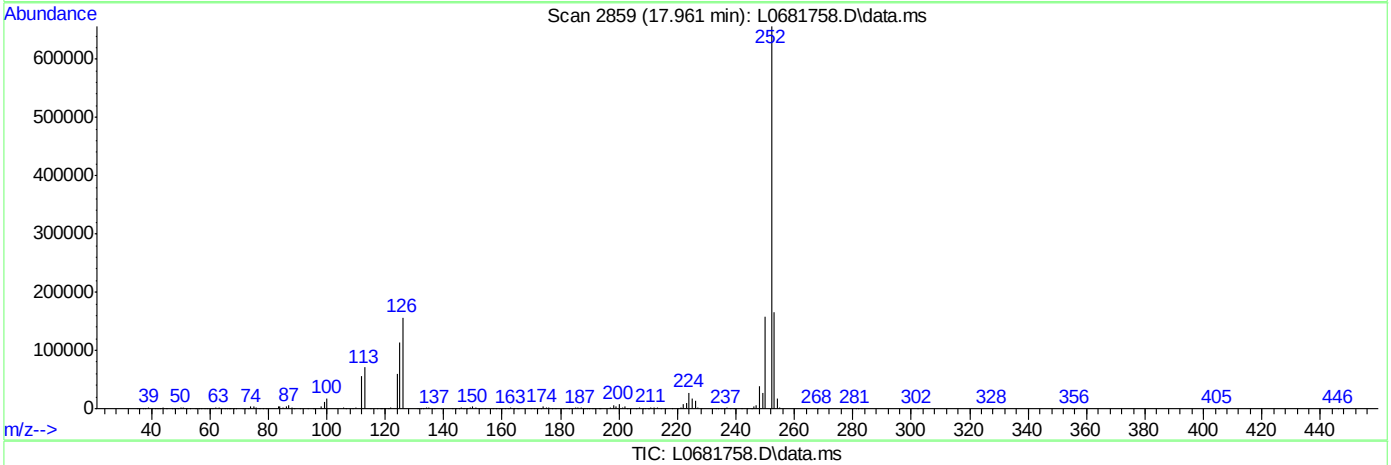
Ion	Exp%	Act%
105.00	100	100
122.00	80.60	77.30
77.00	77.40	78.15
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\sl3632\
Data File : L0681758.D
Acq On : 7 Apr 2015 12:09 pm
Operator : marthav
Sample : cc3629-50
Misc : op55582,sl3632,30.0,,,1,1,soil
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Apr 07 12:31:25 2015
Quant Method : C:\msdchem\1\METHODS\8270da0402.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Thu Apr 02 15:27:09 2015
Response via : Initial Calibration





TIC: L0681758.D\data.ms

(95) Benzo[b]fluoranthene (P)

17.961min (-0.027) 56.54ppm

response 1211175

Ion	Exp%	Act%
252.00	100	100
253.00	25.20	25.62
125.00	16.70	17.29
0.00	0.00	0.00

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\DATA\sl3632\
Data File : L0681778.D
Acq On : 7 Apr 2015 9:16 pm
Operator : marthav
Sample : ecc3629-50
Misc : op55582,sl3632,30.0,,,1,1,soil
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Apr 08 09:12:01 2015
Quant Method : C:\msdchem\1\METHODS\8270da0402.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Thu Apr 02 15:27:09 2015
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	5.129	152	304825	40.00 ppm	-0.02
22) Naphthalene-d8	6.310	136	1030326	40.00 ppm	-0.02
42) Acenaphthene-d10	8.644	164	626933	40.00 ppm	-0.02
68) Phenanthrene-d10	11.123	188	1108587	40.00 ppm	-0.02
84) Chrysene-d12	16.070	240	810716	40.00 ppm	-0.01
93) Perylene-d12	18.581	264	728957	40.00 ppm	-0.02
System Monitoring Compounds					
7) 2-Fluorophenol	4.173	112	1136094	94.79 ppm	-0.02
Spiked Amount 100.000	Range 40 - 102		Recovery = 94.79%		
9) Phenol-d5	4.878	99	1285106	100.06 ppm	-0.01
Spiked Amount 100.000	Range 41 - 100		Recovery = 100.06%#		
23) Nitrobenzene-d5	5.621	82	644162	56.62 ppm	-0.02
Spiked Amount 50.000	Range 40 - 105		Recovery = 113.24%#		
46) 2-Fluorobiphenyl	7.651	172	1036892	50.55 ppm	-0.02
Spiked Amount 50.000	Range 43 - 107		Recovery = 101.10%		
73) 2,4,6-Tribromophenol	9.958	330	450259	110.37 ppm	-0.02
Spiked Amount 100.000	Range 42 - 108		Recovery = 110.37%#		
87) Terphenyl-d14	14.157	244	1149295	61.16 ppm	-0.02
Spiked Amount 50.000	Range 45 - 119		Recovery = 122.32%#		

Target Compounds					Qvalue
2) 1,4-Dioxane	2.731	88	341770	46.93 ppm	97
3) N-nitrosodimethylamine	3.056	42	389776	47.18 ppm	97
4) Pyridine	3.051	79	822347	47.45 ppm	95
5) Benzaldehyde	4.787	106	480671	43.43 ppm	100
6) Aniline	4.894	93	901823	52.22 ppm	73
8) bis(2-Chloroethyl)ether	4.937	93	630477	53.67 ppm	96
10) Phenol	4.889	94	829117	51.45 ppm	80
11) 2-Chlorophenol	4.990	128	574676	52.56 ppm	97
12) 1,3-Dichlorobenzene	5.102	146	629944	51.58 ppm	96
13) 1,4-Dichlorobenzene	5.140	146	606199	53.02 ppm	97
14) 1,2-Dichlorobenzene	5.295	146	587742	52.70 ppm	98
15) Benzyl alcohol	5.252	108	459830	56.69 ppm	97
16) bis(2-chloroisopropyl)...	5.380	45	1060593	50.41 ppm	95
17) 2-Methylphenol	5.359	108	584820	55.37 ppm	100
18) Acetophenone	5.482	105	771508	51.85 ppm	98
19) Hexachloroethane	5.562	117	250335	54.27 ppm	97
20) N-Nitroso-di-n-propyla...	5.503	70	416717	55.61 ppm	98
21) 3&4-Methylphenol	5.482	108	639955	56.41 ppm	98
24) Nitrobenzene	5.637	77	620830	54.73 ppm	100
25) Isophorone	5.850	82	1153006	54.47 ppm	98
26) 2-Nitrophenol	5.936	139	329828	57.84 ppm	97
27) 2,4-Dimethylphenol	5.963	107	555331	56.05 ppm	97
28) bis(2-Chloroethoxy)met...	6.059	93	741664	56.78 ppm	96
29) Benzoic Acid	6.096	105	477077	56.95 ppm	98
30) 2,4-Dichlorophenol	6.171	162	476225	56.99 ppm	97
31) 1,2,4-Trichlorobenzene	6.262	180	534118	56.09 ppm	99
33) Naphthalene	6.331	128	1330799	51.68 ppm	95
34) 4-Chloroaniline	6.401	127	742672	57.87 ppm	97

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\DATA\sl3632\
Data File : L0681778.D
Acq On : 7 Apr 2015 9:16 pm
Operator : marthav
Sample : ecc3629-50
Misc : op55582,sl3632,30.0,,,1,1,soil
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Apr 08 09:12:01 2015
Quant Method : C:\msdchem\1\METHODS\8270da0402.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Thu Apr 02 15:27:09 2015
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
35) 2,6-Dichlorophenol	6.411	162	458363	57.90	ppm		99
36) Hexachlorobutadiene	6.523	225	281792	57.90	ppm		98
37) Caprolactam	6.791	113	201526	55.05	ppm		100
38) 4-Chloro-3-methylphenol	6.962	107	536217	58.24	ppm		99
39) 2-Methylnaphthalene	7.132	142	1082002	53.77	ppm		98
40) 1-Methylnaphthalene	7.271	142	953987	54.55	ppm		99
41) 1,2,4,5-Tetrachloroben...	7.405	216	500316	56.96	ppm		97
43) Hexachlorocyclopentadiene	7.432	237	241267	39.38	ppm		99
44) 2,4,6-Trichlorophenol	7.544	196	357819	54.76	ppm		97
45) 2,4,5-Trichlorophenol	7.597	196	363641	53.58	ppm		94
47) 1,1'-Biphenyl	7.774	154	1152190	47.39	ppm		95
48) 2-Chloronaphthalene	7.784	162	921455	51.63	ppm		97
49) 2-Nitroaniline	7.977	65	392730	57.53	ppm		100
50) p-Dinitrobenzene	8.142	75	268820	59.78	ppm		95
51) Acenaphthylene	8.404	152	1412815	48.73	ppm		95
52) Dimethylphthalate	8.313	163	1057604	51.55	ppm		96
53) m-Dinitrobenzene	8.324	168	215396	57.68	ppm		90
54) 2,6-Dinitrotoluene	8.404	165	271731	55.54	ppm		97
55) o-Dinitrobenzene	8.511	50	201598	53.09	ppm		99
56) Acenaphthene	8.698	153	937560	53.01	ppm		96
57) 3-Nitroaniline	8.618	138	357544	55.73	ppm		99
58) 2,4-Dinitrophenol	8.773	184	105810	33.54	ppm		93
59) Dibenzofuran	8.949	168	1268318	50.52	ppm		88
60) 2,4-Dinitrotoluene	9.029	165	360685	57.32	ppm		98
61) 4-Nitrophenol	8.917	109	148440	57.36	ppm	#	88
62) 2,3,5,6-Tetrachlorophenol	9.157	232	337211	57.16	ppm		95
63) 2,3,4,6-Tetrachlorophenol	9.227	232	321528	56.19	ppm		98
64) Fluorene	9.515	166	1075727	52.10	ppm		99
65) 4-Chlorophenyl-phenyle...	9.536	204	497573	54.94	ppm		97
66) Diethylphthalate	9.472	149	1103686	53.45	ppm		95
67) 4-Nitroaniline	9.633	138	343153	57.44	ppm		97
69) 4,6-Dinitro-2-methylph...	9.702	198	150860	39.52	ppm		97
70) n-Nitrosodiphenylamine	9.755	169	907742	63.87	ppm		99
71) Diphenylamine	9.755	169	907742	53.23	ppm		99
72) 1,2-Diphenylhydrazine	9.798	77	1133904	49.96	ppm		97
74) 4-Bromophenyl-phenylether	10.364	248	348124	54.42	ppm		98
75) Hexachlorobenzene	10.600	284	408940	53.93	ppm		99
76) Simazine	10.717	201	149424	48.79	ppm		98
77) Atrazine	10.797	200	280536	49.47	ppm		95
78) Pentachlorophenol	10.931	266	275693	58.14	ppm		99
79) Phenanthrene	11.166	178	1441680	49.60	ppm		97
80) Anthracene	11.246	178	1448184	50.24	ppm		95
81) Carbazole	11.572	167	1416981	48.56	ppm		98
82) Di-n-butylphthalate	12.421	149	1800288	50.66	ppm		95
83) Fluoranthene	13.351	202	1585989	49.30	ppm		97
85) Benzidine	13.666	184	918592	60.24	ppm		96
86) Pyrene	13.751	202	1496886	55.42	ppm		95
88) Butylbenzylphthalate	15.220	149	857069	64.13	ppm		98
89) 3,3'-Dichlorobenzidine	16.086	252	558263	66.16	ppm		97
90) Benzo[a]anthracene	16.032	228	1433101	58.95	ppm		97

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\DATA\sl3632\
Data File : L0681778.D
Acq On : 7 Apr 2015 9:16 pm
Operator : marthav
Sample : ecc3629-50
Misc : op55582,sl3632,30.0,,,1,1,soil
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Apr 08 09:12:01 2015
Quant Method : C:\msdchem\1\METHODS\8270da0402.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Thu Apr 02 15:27:09 2015
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
91) Chrysene	16.118	228	1146487	58.48 ppm	95
92) bis(2-Ethylhexyl)phtha...	16.422	149	1026150	65.10 ppm	97
94) Di-n-octylphthalate	17.539	149	1681807	60.85 ppm	96
95) Benzo[b]fluoranthene	17.972	252	1288125	56.03 ppm	99
96) Benzo[k]fluoranthene	18.014	252	1089307	50.85 ppm	97
97) Benzo[a]pyrene	18.490	252	1210827	54.70 ppm	98
98) Indeno[1,2,3-cd]pyrene	20.178	276	1045919	60.10 ppm	98
99) Dibenz[a,h]anthracene	20.221	278	955064	58.52 ppm	97
100) Benzo[g,h,i]perylene	20.531	276	1022232	55.95 ppm	97

(#) = qualifier out of range (m) = manual integration (+) = signals summed

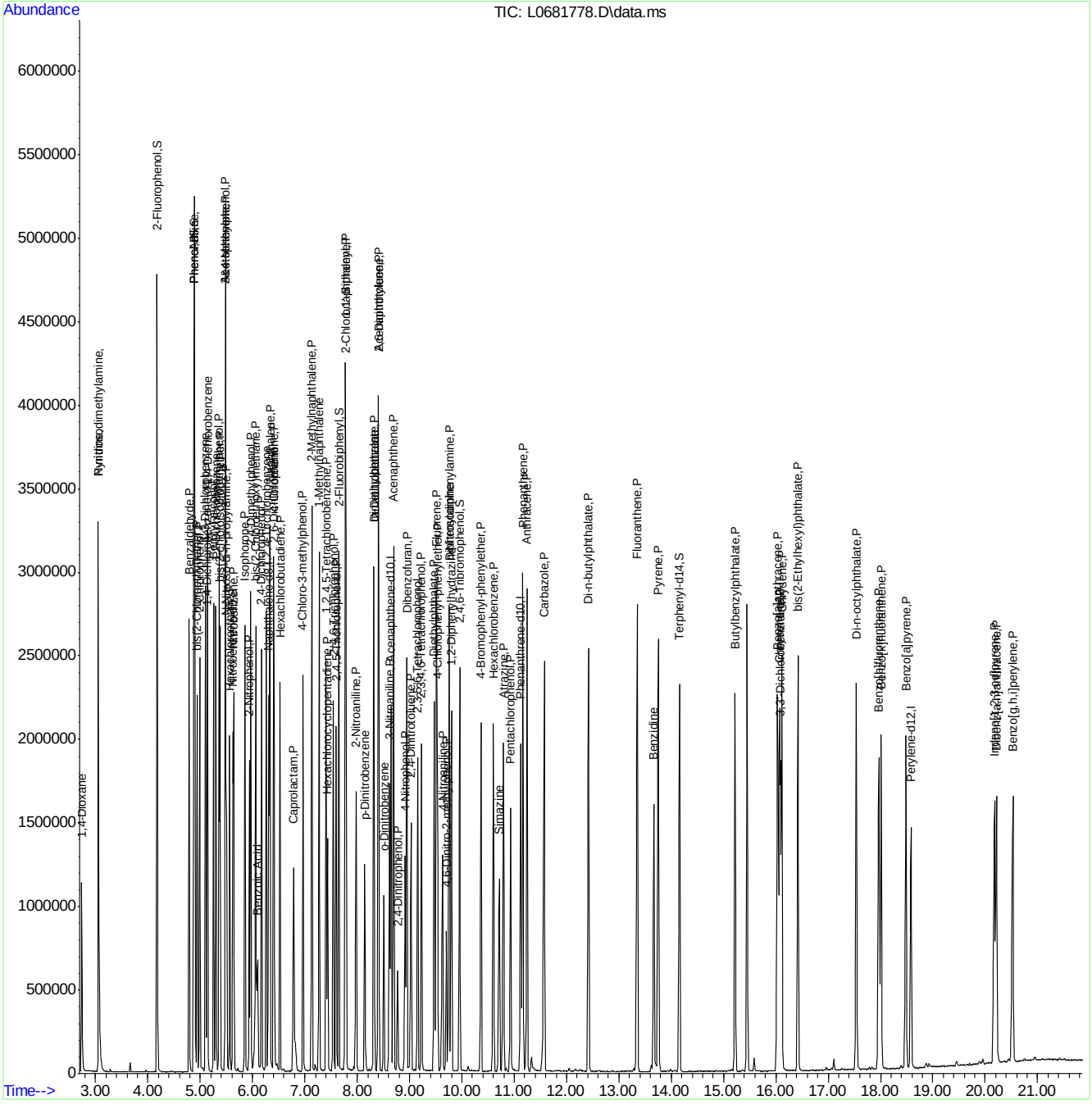
7.6.14

7

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\DATA\sl3632\
Data File : L0681778.D
Acq On : 7 Apr 2015 9:16 pm
Operator : marthav
Sample : ecc3629-50
Misc : op55582,sl3632,30.0,,,1,1,soil
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Apr 08 09:12:01 2015
Quant Method : C:\msdchem\1\METHODS\8270da0402.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Thu Apr 02 15:27:09 2015
Response via : Initial Calibration



ACCUTEST LABORATORIES FA23258

Manual Integrations
APPROVED
(compounds with "m" flag)
Mike Eger
04/06/15 15:36

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\st809\
Data File : T017698.D
Acq On : 1 Apr 2015 1:35 pm
Operator : mayrag
Sample : ic809-1
Misc : op55409,st809,250,,,1,1,water
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Apr 06 09:08:07 2015
Quant Method : C:\msdchem\1\METHODS\SIM_LV.M
Quant Title : PAH's by 8270 SIM
QLast Update : Mon Apr 06 09:07:09 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Naphthalene-d8	6.372	136	299934	500.00	ppb	0.00
6) Acenaphthene-d10	7.908	164	156154	500.00	ppb	0.00
11) Phenanthrene-d10	9.213	188	211278	500.00	ppb	0.00
17) Chrysene-d12	11.745	240	164410	500.00	ppb	0.00
22) Perylene-d12	13.939	264	122335	500.00	ppb	0.00
System Monitoring Compounds						
2) Nitrobenzene-d5	5.759	82	21471	74.87	ppb	0.00
Spiked Amount 2000.000	Range 38 - 126		Recovery = 3.74%#			
7) 2-Fluorobiphenyl	7.329	172	39240	79.94	ppb	0.00
Spiked Amount 2000.000	Range 41 - 109		Recovery = 4.00%#			
12) 2,4,6-Tribromophenol	8.611	330	6605	122.76	ppb	0.00
Spiked Amount 4000.000	Range 33 - 118		Recovery = 3.07%#			
19) Terphenyl-d14	10.629	244	25718	86.17	ppb	0.00
Spiked Amount 2000.000	Range 46 - 135		Recovery = 4.31%#			
Target Compounds						Qvalue
3) Naphthalene	6.390	128	59985	81.24	ppb	99
4) 2-Methylnaphthalene	7.000	142	34166	72.01	ppb	99
5) 1-Methylnaphthalene	7.085	142	32779	76.02	ppb	98
8) Acenaphthylene	7.781	152	54408	77.15	ppb	98
9) Acenaphthene	7.933	153	36911	84.93	ppb	95
10) Fluorene	8.393	166	31665	64.20	ppb	99
13) Pentachlorophenol	9.071	266	989m	58.45	ppb	
14) Phenanthrene	9.233	178	45650	81.29	ppb	97
15) Anthracene	9.277	178	24138	41.55	ppb	96
16) Fluoranthene	10.280	202	46056	81.55	ppb	99
18) Pyrene	10.477	202	48184	83.79	ppb	100
20) Benzo[a]anthracene	11.730	228	17801	40.78	ppb	99
21) Chrysene	11.772	228	17161	40.82	ppb	99
23) Benzo[b]fluoranthene	13.302	252	13193	37.14	ppb	99
24) Benzo[k]fluoranthene	13.347	252	14711	39.96	ppb	99
25) Benzo[a]pyrene	13.836	252	12376	38.24	ppb	100
26) Indeno[1,2,3-cd]pyrene	15.885	276	10181	40.95	ppb	97
27) Dibenz[a,h]anthracene	15.953	278	10058	40.29	ppb	95
28) Benzo[g,h,i]perylene	16.384	276	11937	41.40	ppb	95

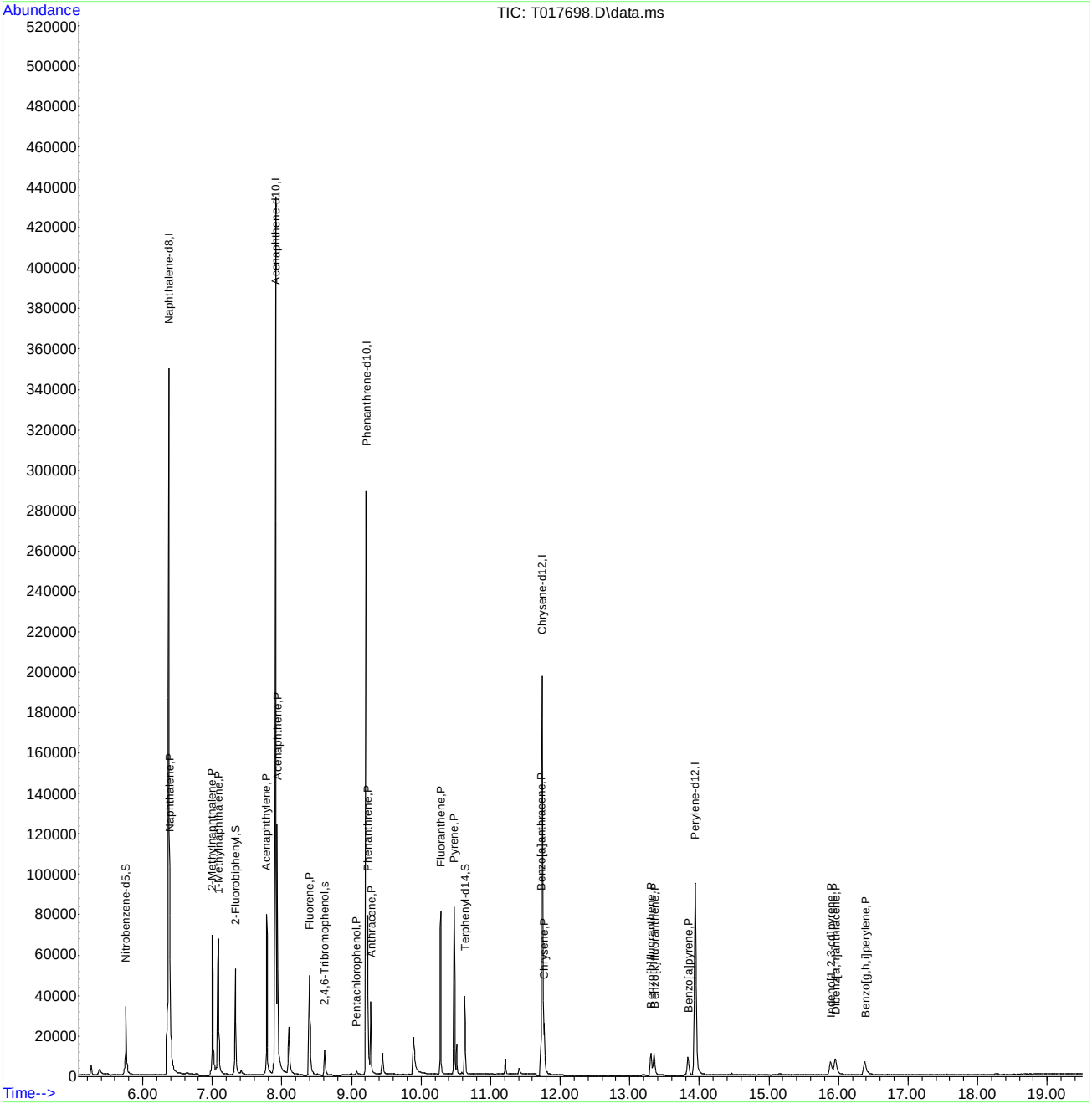
(#) = qualifier out of range (m) = manual integration (+) = signals summed

7.6.15
7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\st809\
Data File : T017698.D
Acq On : 1 Apr 2015 1:35 pm
Operator : mayrag
Sample : ic809-1
Misc : op55409,st809,250,,,1,1,water
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Apr 06 09:08:07 2015
Quant Method : C:\msdchem\1\METHODS\SIM_LV.M
Quant Title : PAH's by 8270 SIM
QLast Update : Mon Apr 06 09:07:09 2015
Response via : Initial Calibration



ACCUTEST LABORATORIES FA23258

Manual Integration Approval Summary

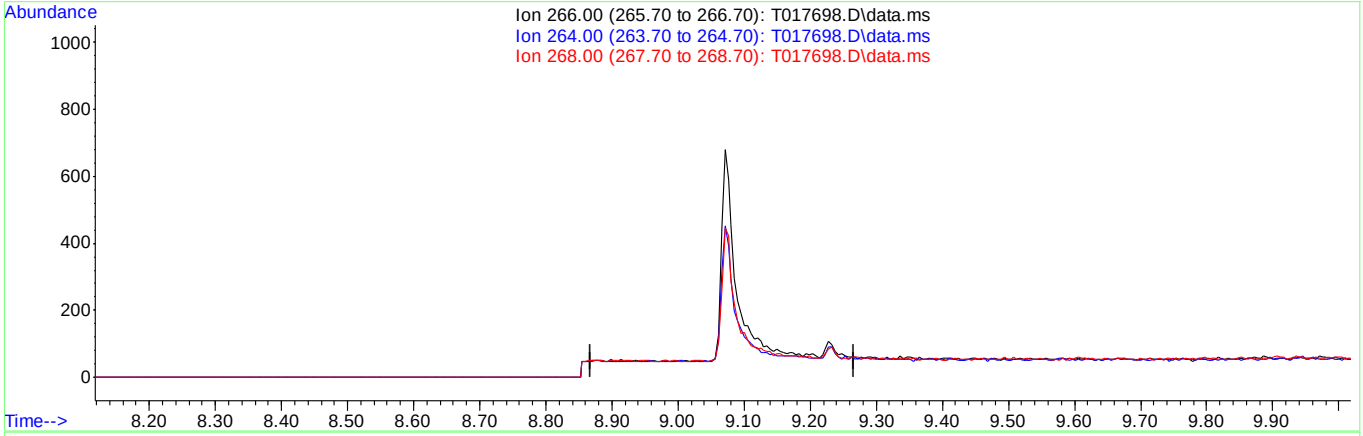
Sample Number:	ST809-IC809	**Method:**	SW846 8270D BY SIM
Lab FileID:	T017698.D	**Analyst approved:**	04/06/15 14:26 Mayra Gonzalez
Injection Time:	04/01/15 13:35	**Supervisor approved:**	04/06/15 15:36 Mike Eger

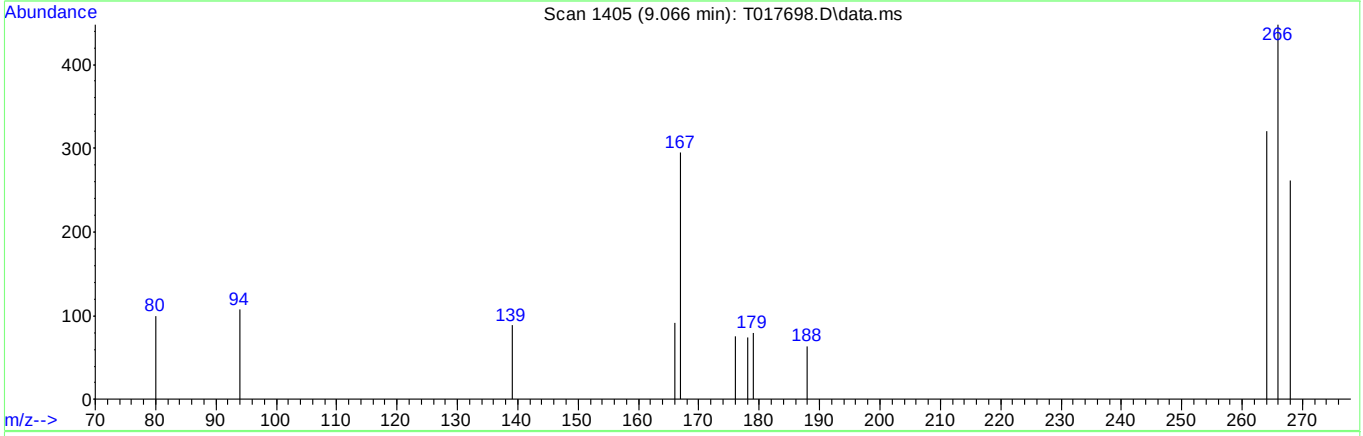
Parameter	CAS	Sig#	R.T. (min.)	Reason
Pentachlorophenol	87-86-5		9.07	Missed peak

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\st809\
Data File : T017698.D
Acq On : 1 Apr 2015 1:35 pm
Operator : mayrag
Sample : ic809-1
Misc : op55409,st809,250,,,1,1,water
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Apr 06 09:07:42 2015
Quant Method : C:\msdchem\1\METHODS\SIM_LV.M
Quant Title : PAH's by 8270 SIM
QLast Update : Mon Apr 06 09:07:09 2015
Response via : Initial Calibration





TIC: T017698.D\data.ms

(13) Pentachlorophenol (P)

9.068min (-9.068) 0.00ppb

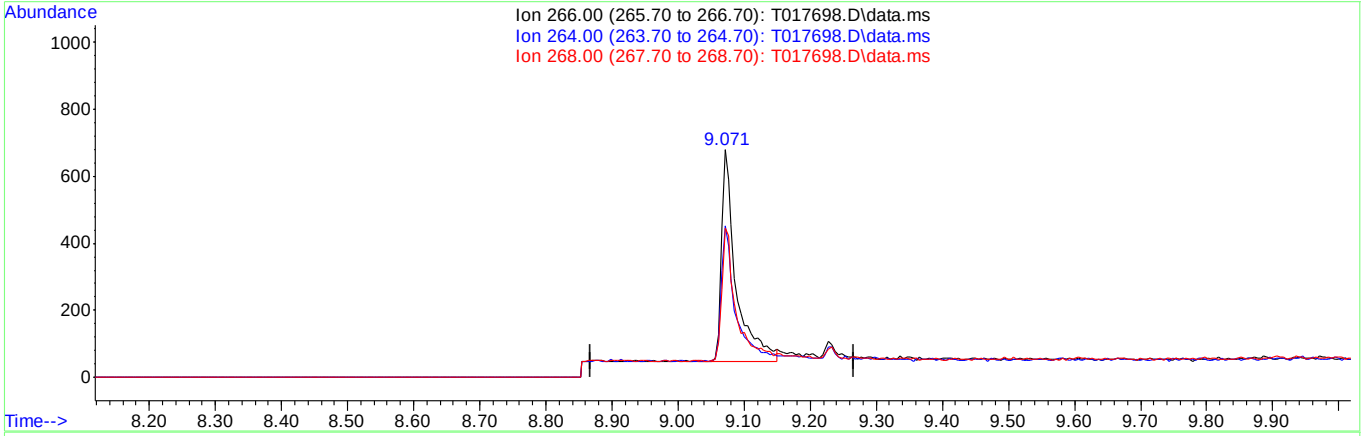
response 0

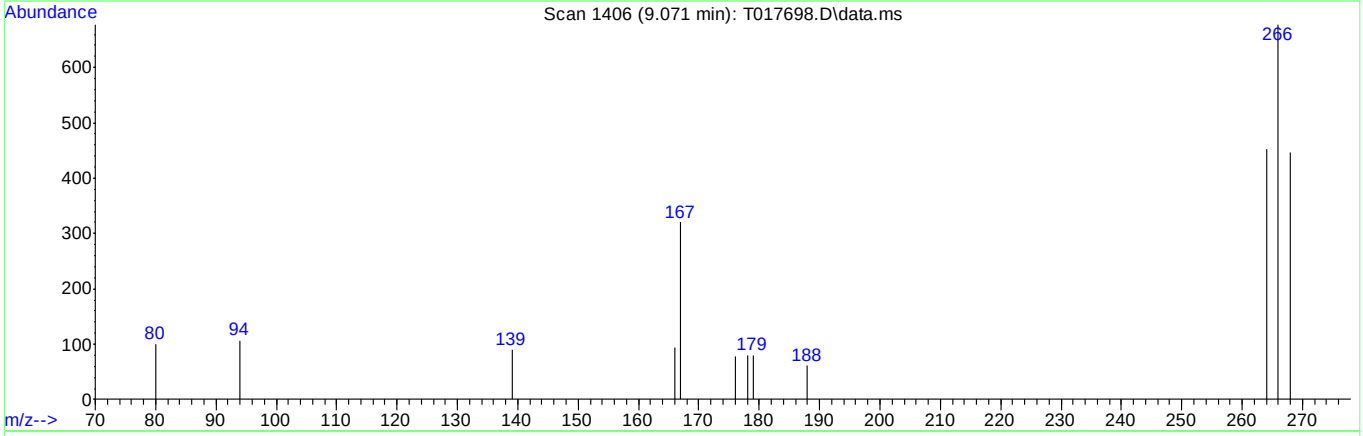
Ion	Exp%	Act%
266.00	100	0.00
264.00	60.90	0.00#
268.00	62.00	0.00#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\st809\
Data File : T017698.D
Acq On : 1 Apr 2015 1:35 pm
Operator : mayrag
Sample : ic809-1
Misc : op55409,st809,250,,,1,1,water
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Apr 06 09:07:42 2015
Quant Method : C:\msdchem\1\METHODS\SIM_LV.M
Quant Title : PAH's by 8270 SIM
QLast Update : Mon Apr 06 09:07:09 2015
Response via : Initial Calibration





TIC: T017698.D\data.ms

(13) Pentachlorophenol (P)

9.071min (+0.003) 58.45ppb m

response 989

Ion	Exp%	Act%
266.00	100	100
264.00	60.90	66.67
268.00	62.00	65.78
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\st809\
Data File : T017699.D
Acq On : 1 Apr 2015 2:05 pm
Operator : mayrag
Sample : ic809-2
Misc : op55409,st809,250,,,1,1,water
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Apr 06 09:09:45 2015
Quant Method : C:\msdchem\1\METHODS\SIM_LV.M
Quant Title : PAH's by 8270 SIM
QLast Update : Mon Apr 06 09:07:09 2015
Response via : Initial Calibration

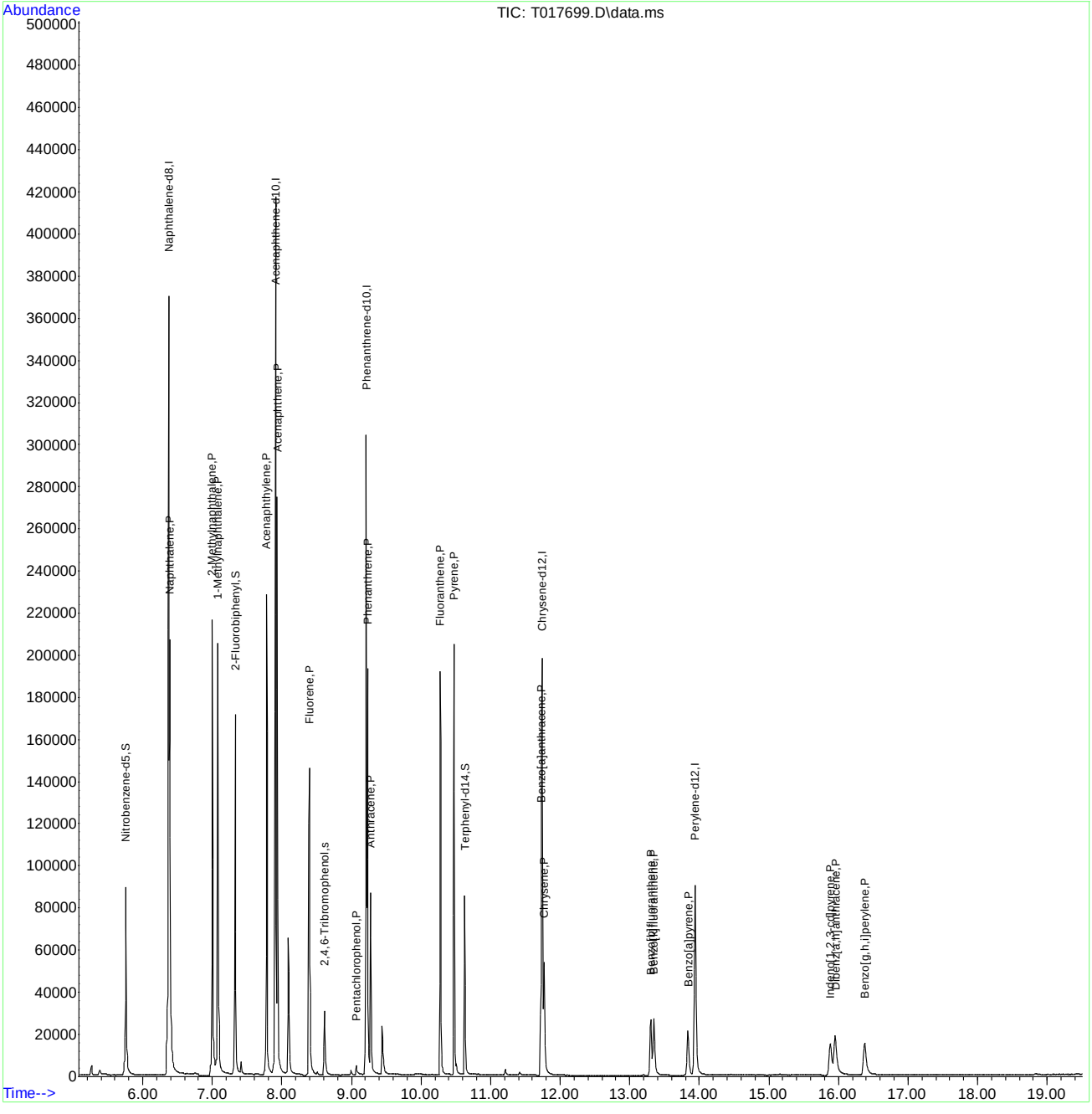
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Naphthalene-d8	6.372	136	298840	500.00	ppb	0.00
6) Acenaphthene-d10	7.908	164	143204	500.00	ppb	0.00
11) Phenanthrene-d10	9.211	188	199760	500.00	ppb	0.00
17) Chrysene-d12	11.742	240	154583	500.00	ppb	0.00
22) Perylene-d12	13.939	264	113944	500.00	ppb	0.00
System Monitoring Compounds						
2) Nitrobenzene-d5	5.759	82	52595	184.08	ppb	0.00
Spiked Amount 2000.000	Range 38 - 126		Recovery = 9.20%#			
7) 2-Fluorobiphenyl	7.327	172	104065	231.17	ppb	0.00
Spiked Amount 2000.000	Range 41 - 109		Recovery = 11.56%#			
12) 2,4,6-Tribromophenol	8.611	330	16033	315.16	ppb	0.00
Spiked Amount 4000.000	Range 33 - 118		Recovery = 7.88%#			
19) Terphenyl-d14	10.627	244	61186	218.04	ppb	0.00
Spiked Amount 2000.000	Range 46 - 135		Recovery = 10.90%#			
Target Compounds						Qvalue
3) Naphthalene	6.390	128	152342	207.07	ppb	99
4) 2-Methylnaphthalene	6.998	142	89854	190.08	ppb	98
5) 1-Methylnaphthalene	7.082	142	89617	208.60	ppb	98
8) Acenaphthylene	7.781	152	143272	221.54	ppb	98
9) Acenaphthene	7.933	153	83378	209.19	ppb	96
10) Fluorene	8.393	166	81163	179.45	ppb	99
13) Pentachlorophenol	9.068	266	2392	149.51	ppb	94
14) Phenanthrene	9.231	178	111120	209.28	ppb	99
15) Anthracene	9.275	178	57993	105.59	ppb	99
16) Fluoranthene	10.278	202	110660	207.25	ppb	97
18) Pyrene	10.475	202	115058	212.80	ppb	98
20) Benzo[a]anthracene	11.730	228	41371	100.81	ppb	100
21) Chrysene	11.772	228	42104	106.51	ppb	99
23) Benzo[b]fluoranthene	13.299	252	31562	95.41	ppb	100
24) Benzo[k]fluoranthene	13.342	252	36381	106.11	ppb	99
25) Benzo[a]pyrene	13.836	252	29573	98.12	ppb	99
26) Indeno[1,2,3-cd]pyrene	15.880	276	23656	102.15	ppb	96
27) Dibenz[a,h]anthracene	15.951	278	24179	103.98	ppb	97
28) Benzo[g,h,i]perylene	16.379	276	28921	107.69	ppb	97

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\st809\
Data File : T017699.D
Acq On : 1 Apr 2015 2:05 pm
Operator : mayrag
Sample : ic809-2
Misc : op55409,st809,250,,,1,1,water
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Apr 06 09:09:45 2015
Quant Method : C:\msdchem\1\METHODS\SIM_LV.M
Quant Title : PAH's by 8270 SIM
QLast Update : Mon Apr 06 09:07:09 2015
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\st809\
Data File : T017700.D
Acq On : 1 Apr 2015 2:35 pm
Operator : mayrag
Sample : ic809-3
Misc : op55409,st809,250,,,1,1,water
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Apr 06 09:10:58 2015
Quant Method : C:\msdchem\1\METHODS\SIM_LV.M
Quant Title : PAH's by 8270 SIM
QLast Update : Mon Apr 06 09:07:09 2015
Response via : Initial Calibration

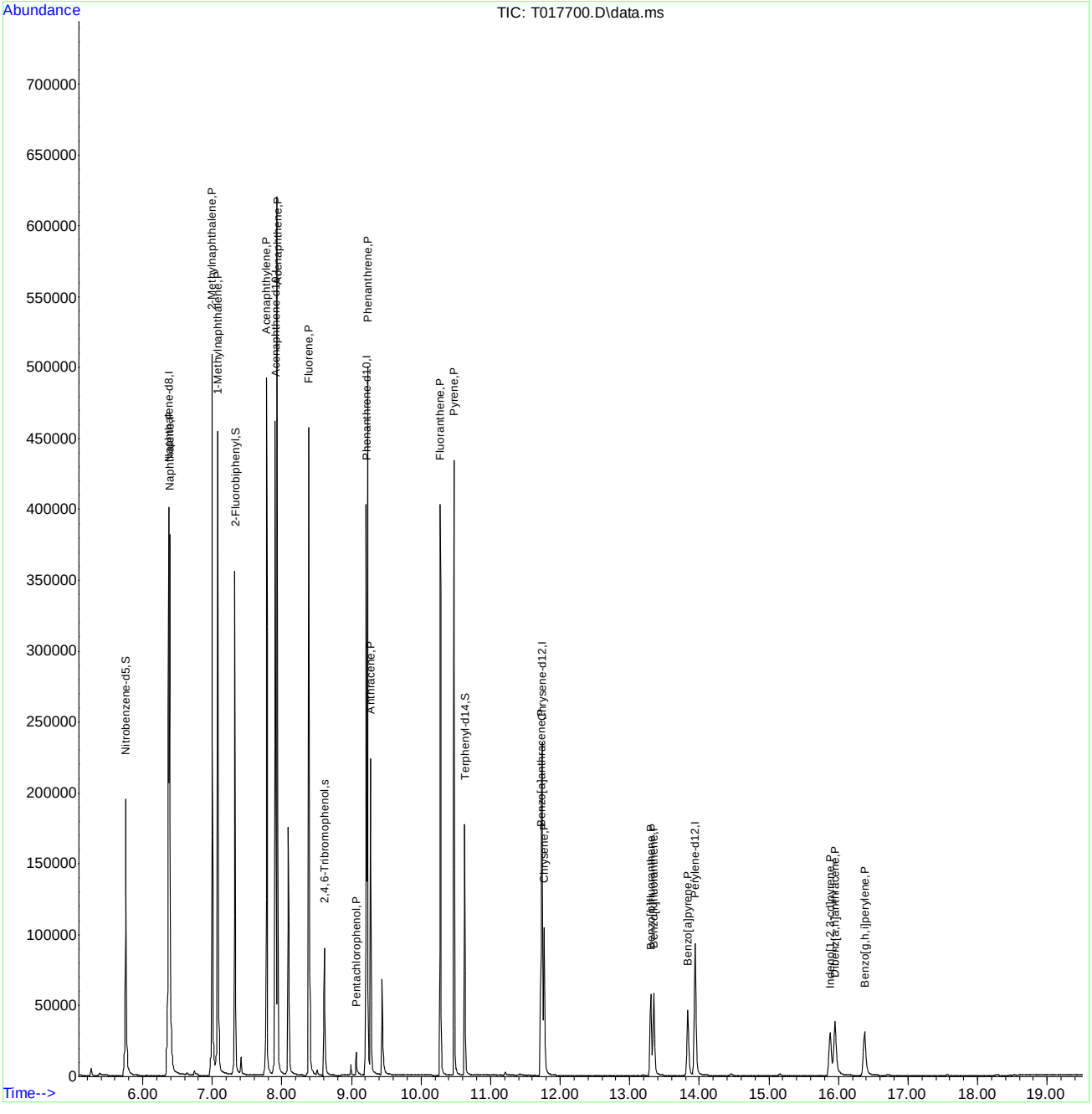
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Naphthalene-d8	6.372	136	312026	500.00	ppb	0.00
6) Acenaphthene-d10	7.904	164	157126	500.00	ppb	0.00
11) Phenanthrene-d10	9.211	188	256582	500.00	ppb	0.00
17) Chrysene-d12	11.742	240	164667	500.00	ppb	0.00
22) Perylene-d12	13.937	264	121657	500.00	ppb	0.00
System Monitoring Compounds						
2) Nitrobenzene-d5	5.756	82	112751	377.95	ppb	0.00
Spiked Amount 2000.000	Range 38 - 126		Recovery = 18.90%#			
7) 2-Fluorobiphenyl	7.325	172	206986	419.06	ppb	0.00
Spiked Amount 2000.000	Range 41 - 109		Recovery = 20.95%#			
12) 2,4,6-Tribromophenol	8.609	330	38555	590.03	ppb	0.00
Spiked Amount 4000.000	Range 33 - 118		Recovery = 14.75%#			
19) Terphenyl-d14	10.627	244	122231	408.89	ppb	0.00
Spiked Amount 2000.000	Range 46 - 135		Recovery = 20.44%#			
Target Compounds						Qvalue
3) Naphthalene	6.390	128	301828	392.92	ppb	100
4) 2-Methylnaphthalene	6.996	142	187635	380.16	ppb	98
5) 1-Methylnaphthalene	7.083	142	179983	401.24	ppb	98
8) Acenaphthylene	7.781	152	288022	405.90	ppb	99
9) Acenaphthene	7.933	153	182746	417.88	ppb	96
10) Fluorene	8.391	166	203723	410.52	ppb	98
13) Pentachlorophenol	9.069	266	7112	346.08	ppb	99
14) Phenanthrene	9.231	178	275044	403.30	ppb	99
15) Anthracene	9.275	178	141863	201.09	ppb	99
16) Fluoranthene	10.278	202	224580	327.46	ppb	97
18) Pyrene	10.475	202	230575	400.33	ppb	98
20) Benzo[a]anthracene	11.727	228	84206	192.62	ppb	99
21) Chrysene	11.773	228	84046	199.58	ppb	99
23) Benzo[b]fluoranthene	13.300	252	66743	188.96	ppb	100
24) Benzo[k]fluoranthene	13.345	252	72458	197.94	ppb	99
25) Benzo[a]pyrene	13.834	252	61647	191.56	ppb	99
26) Indeno[1,2,3-cd]pyrene	15.880	276	43191	174.67	ppb	98
27) Dibenz[a,h]anthracene	15.948	278	44842	180.61	ppb	97
28) Benzo[g,h,i]perylene	16.377	276	49823	173.76	ppb	97

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\st809\
Data File : T017700.D
Acq On : 1 Apr 2015 2:35 pm
Operator : mayrag
Sample : ic809-3
Misc : op55409,st809,250,,,1,1,water
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Apr 06 09:10:58 2015
Quant Method : C:\msdchem\1\METHODS\SIM_LV.M
Quant Title : PAH's by 8270 SIM
QLast Update : Mon Apr 06 09:07:09 2015
Response via : Initial Calibration



ACCUTEST LABORATORIES FA23258

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\st809\
Data File : T017701.D
Acq On : 1 Apr 2015 3:06 pm
Operator : mayrag
Sample : icc809-4
Misc : op55409,st809,250,,,1,1,water
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Apr 06 09:06:57 2015
Quant Method : C:\msdchem\1\METHODS\SIM_LV.M
Quant Title : PAH's by 8270 SIM
QLast Update : Mon Apr 06 09:06:53 2015
Response via : Initial Calibration

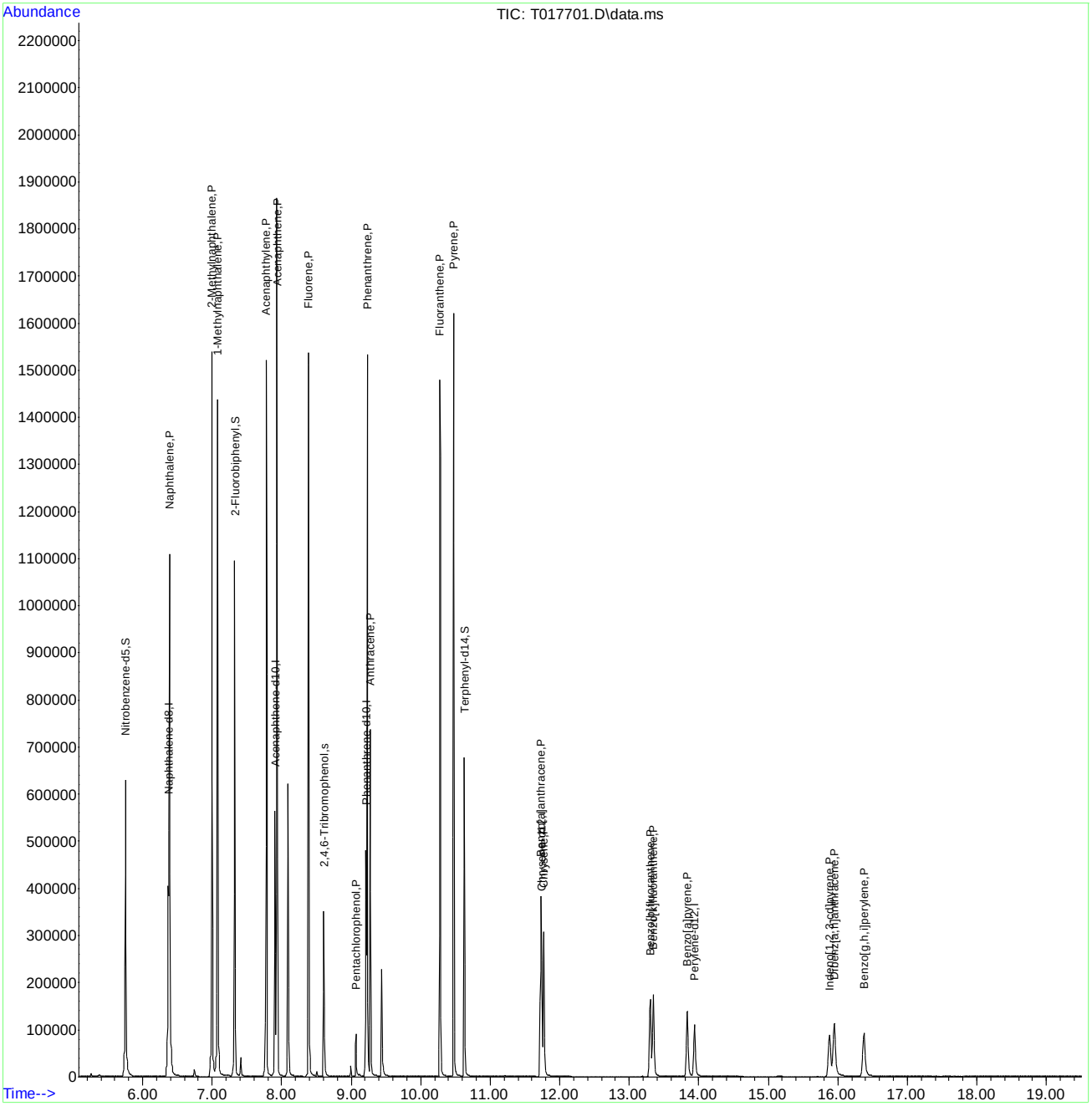
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) Naphthalene-d8	6.369	136	354871	500.00 ppb	0.00
6) Acenaphthene-d10	7.908	164	183614	500.00 ppb	0.00
11) Phenanthrene-d10	9.211	188	297615	500.00 ppb	0.00
17) Chrysene-d12	11.742	240	187477	500.00 ppb	0.00
22) Perylene-d12	13.937	264	138051	500.00 ppb	0.00
System Monitoring Compounds					
2) Nitrobenzene-d5	5.756	82	333112	981.80 ppb	0.00
Spiked Amount 2000.000	Range 38 - 126		Recovery = 49.09%		
7) 2-Fluorobiphenyl	7.325	172	605347	1048.76 ppb	0.00
Spiked Amount 2000.000	Range 41 - 109		Recovery = 52.44%		
12) 2,4,6-Tribromophenol	8.606	330	120971	1874.30 ppb	0.00
Spiked Amount 4000.000	Range 33 - 118		Recovery = 46.86%		
19) Terphenyl-d14	10.627	244	437498	1285.48 ppb	0.00
Spiked Amount 2000.000	Range 46 - 135		Recovery = 64.27%		
Target Compounds					Qvalue
3) Naphthalene	6.387	128	881483	1008.96 ppb	99
4) 2-Methylnaphthalene	6.996	142	549445	978.80 ppb	98
5) 1-Methylnaphthalene	7.080	142	526166	1031.37 ppb	96
8) Acenaphthylene	7.781	152	864165	1042.16 ppb	99
9) Acenaphthene	7.933	153	526388	1030.04 ppb	95
10) Fluorene	8.391	166	582086	1003.74 ppb	98
13) Pentachlorophenol	9.069	266	32595	1324.63 ppb	100
14) Phenanthrene	9.231	178	807023	1020.20 ppb	99
15) Anthracene	9.275	178	418859	511.86 ppb	99
16) Fluoranthene	10.278	202	805526	1012.60 ppb	96
18) Pyrene	10.475	202	831404	1267.88 ppb	98
20) Benzo[a]anthracene	11.730	228	243683	489.60 ppb	100
21) Chrysene	11.772	228	238287	497.01 ppb	100
23) Benzo[b]fluoranthene	13.302	252	194142	484.38 ppb	100
24) Benzo[k]fluoranthene	13.342	252	208907	502.92 ppb	100
25) Benzo[a]pyrene	13.834	252	178517	488.85 ppb	100
26) Indeno[1,2,3-cd]pyrene	15.880	276	128543	449.51 ppb	97
27) Dibenz[a,h]anthracene	15.948	278	136183	484.77 ppb	97
28) Benzo[g,h,i]perylene	16.377	276	145791	448.08 ppb	98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\st809\
Data File : T017701.D
Acq On : 1 Apr 2015 3:06 pm
Operator : mayrag
Sample : icc809-4
Misc : op55409,st809,250,,,1,1,water
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Apr 06 09:06:57 2015
Quant Method : C:\msdchem\1\METHODS\SIM_LV.M
Quant Title : PAH's by 8270 SIM
QLast Update : Mon Apr 06 09:06:53 2015
Response via : Initial Calibration



ACCUTEST LABORATORIES FA23258

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\DATA\st809\
Data File : T017701.D
Acq On    :  1 Apr 2015   3:06 pm
Operator  : mayrag
Sample    : icc809-4
Misc      : op55409,st809,250,,,1,1,water
ALS Vial  : 5   Sample Multiplier: 1

Quant Time: Apr 06 09:06:57 2015
Quant Method : C:\msdchem\1\METHODS\SIM_LV.M
Quant Title  : PAH's by 8270 SIM
QLast Update : Mon Apr 06 09:06:53 2015
Response via : Initial Calibration
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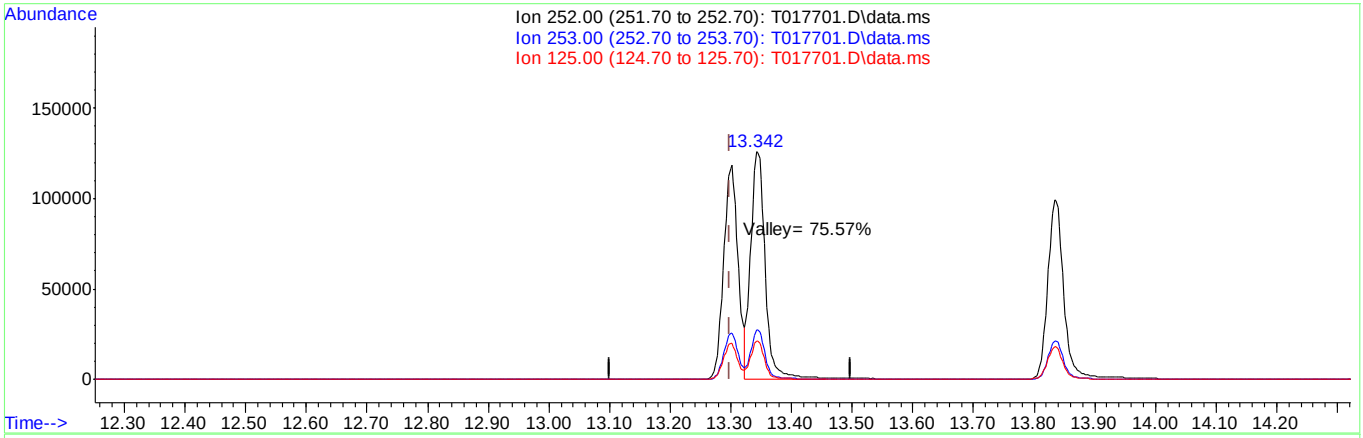
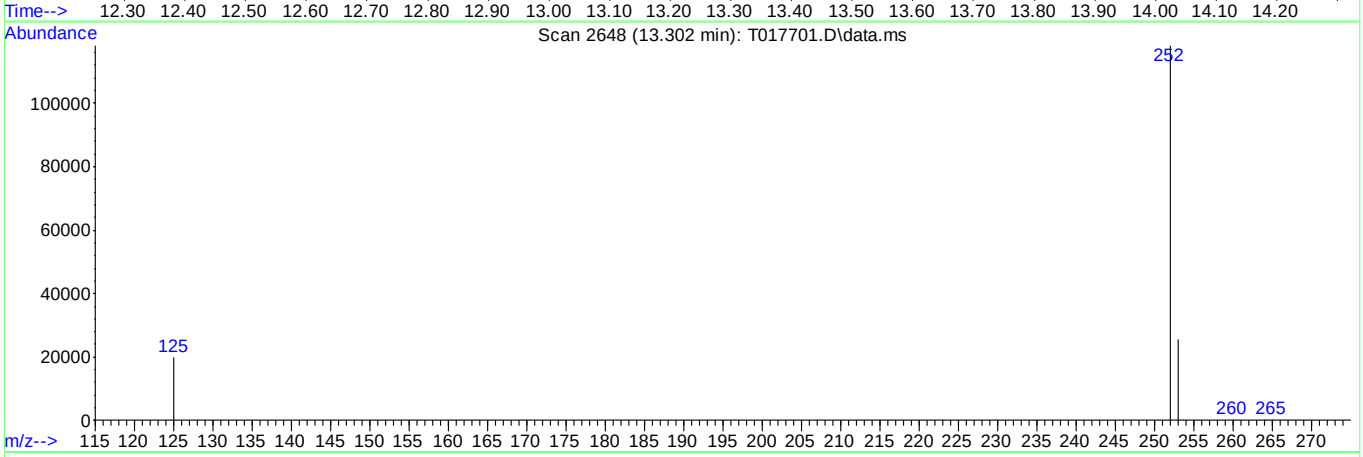




TIC: T017701.D\data.ms

(23) Benzo[b]fluoranthene (P)

13.302min (+0.002) 484.38ppb

response 194142

Ion	Exp%	Act%
252.00	100	100
253.00	21.90	21.65
125.00	16.60	16.66
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\st809\
Data File : T017702.D
Acq On : 1 Apr 2015 3:36 pm
Operator : mayrag
Sample : ic809-5
Misc : op55409,st809,250,,,1,1,water
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Apr 06 09:15:29 2015
Quant Method : C:\msdchem\1\METHODS\SIM_LV.M
Quant Title : PAH's by 8270 SIM
QLast Update : Mon Apr 06 09:07:09 2015
Response via : Initial Calibration

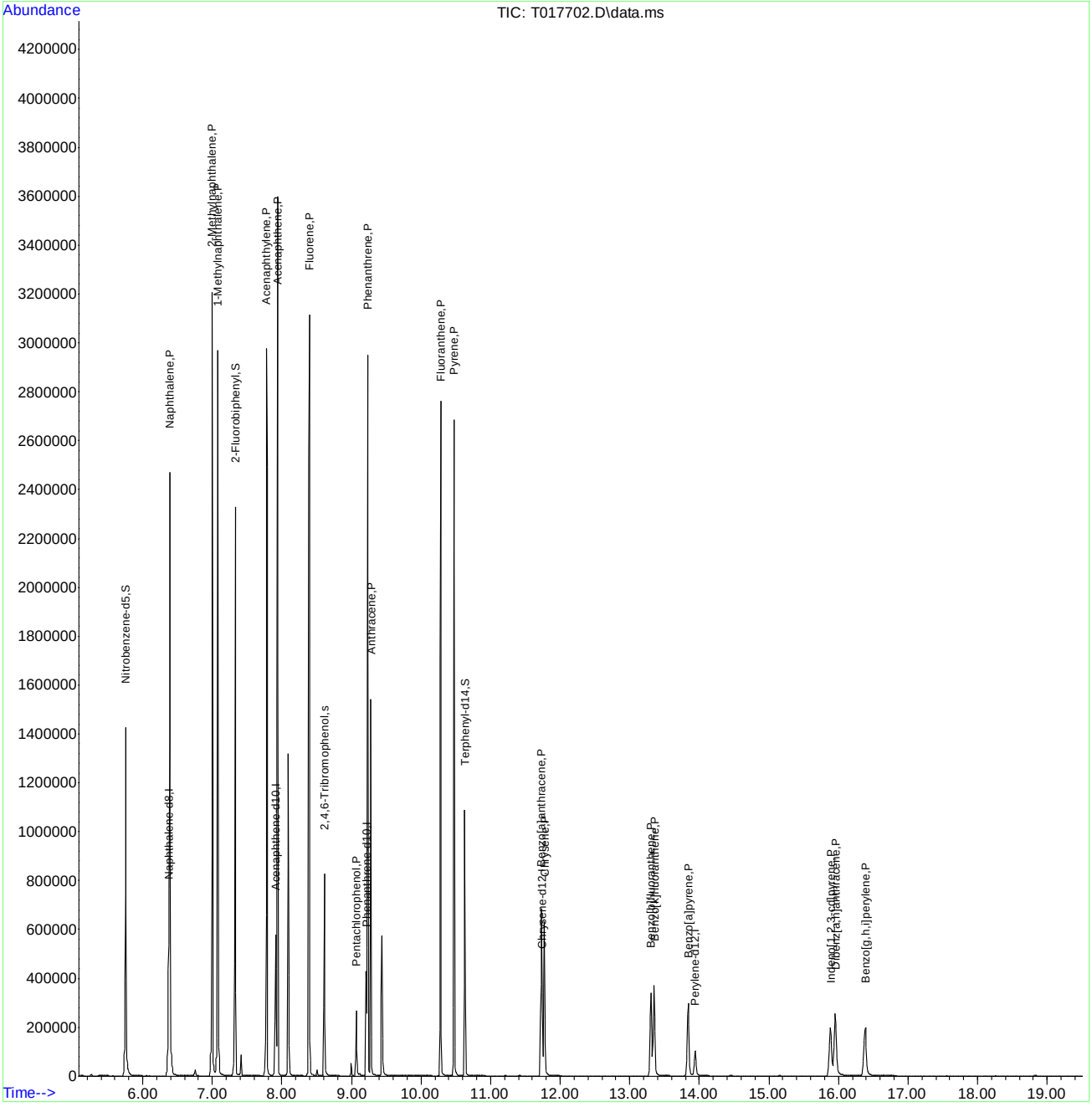
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) Naphthalene-d8	6.372	136	340402	500.00 ppb	0.00
6) Acenaphthene-d10	7.908	164	173261	500.00 ppb	0.00
11) Phenanthrene-d10	9.213	188	287831	500.00 ppb	0.00
17) Chrysene-d12	11.745	240	180579	500.00 ppb	0.00
22) Perylene-d12	13.939	264	131901	500.00 ppb	0.00
System Monitoring Compounds					
2) Nitrobenzene-d5	5.756	82	676259	2077.90 ppb	0.00
Spiked Amount 2000.000	Range 38 - 126		Recovery = 103.90%		
7) 2-Fluorobiphenyl	7.327	172	1212210	2225.65 ppb	0.00
Spiked Amount 2000.000	Range 41 - 109		Recovery = 111.28%#		
12) 2,4,6-Tribromophenol	8.609	330	266918	3641.35 ppb	0.00
Spiked Amount 4000.000	Range 33 - 118		Recovery = 91.03%		
19) Terphenyl-d14	10.629	244	704935	2150.40 ppb	0.00
Spiked Amount 2000.000	Range 46 - 135		Recovery = 107.52%		
Target Compounds					Qvalue
3) Naphthalene	6.390	128	1781964	2126.37 ppb	99
4) 2-Methylnaphthalene	6.998	142	1144830	2126.12 ppb	97
5) 1-Methylnaphthalene	7.082	142	1053741	2153.30 ppb	97
8) Acenaphthylene	7.781	152	1740650	2224.61 ppb	98
9) Acenaphthene	7.937	153	1051975	2181.52 ppb	97
10) Fluorene	8.393	166	1193469	2180.97 ppb	98
13) Pentachlorophenol	9.071	266	92179	3998.55 ppb	99
14) Phenanthrene	9.233	178	1627927	2127.90 ppb	98
15) Anthracene	9.277	178	856321	1082.03 ppb	99
16) Fluoranthene	10.284	202	1579578	2053.13 ppb	97
18) Pyrene	10.477	202	1420458	2248.93 ppb	94
20) Benzo[a]anthracene	11.730	228	505739	1054.92 ppb	100
21) Chrysene	11.775	228	488039	1056.82 ppb	99
23) Benzo[b]fluoranthene	13.304	252	402480	1051.00 ppb	100
24) Benzo[k]fluoranthene	13.350	252	430343	1084.31 ppb	99
25) Benzo[a]pyrene	13.839	252	378966	1086.15 ppb	100
26) Indeno[1,2,3-cd]pyrene	15.883	276	271701	1013.48 ppb	97
27) Dibenz[a,h]anthracene	15.953	278	287188	1066.88 ppb	97
28) Benzo[g,h,i]perylene	16.387	276	299123	962.21 ppb	97

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\st809\
Data File : T017702.D
Acq On : 1 Apr 2015 3:36 pm
Operator : mayrag
Sample : ic809-5
Misc : op55409,st809,250,,,1,1,water
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Apr 06 09:15:29 2015
Quant Method : C:\msdchem\1\METHODS\SIM_LV.M
Quant Title : PAH's by 8270 SIM
QLast Update : Mon Apr 06 09:07:09 2015
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\st809\
Data File : T017703.D
Acq On : 1 Apr 2015 4:07 pm
Operator : mayrag
Sample : ic809-6
Misc : op55409,st809,250,,,1,1,water
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Apr 06 09:15:53 2015
Quant Method : C:\msdchem\1\METHODS\SIM_LV.M
Quant Title : PAH's by 8270 SIM
QLast Update : Mon Apr 06 09:07:09 2015
Response via : Initial Calibration

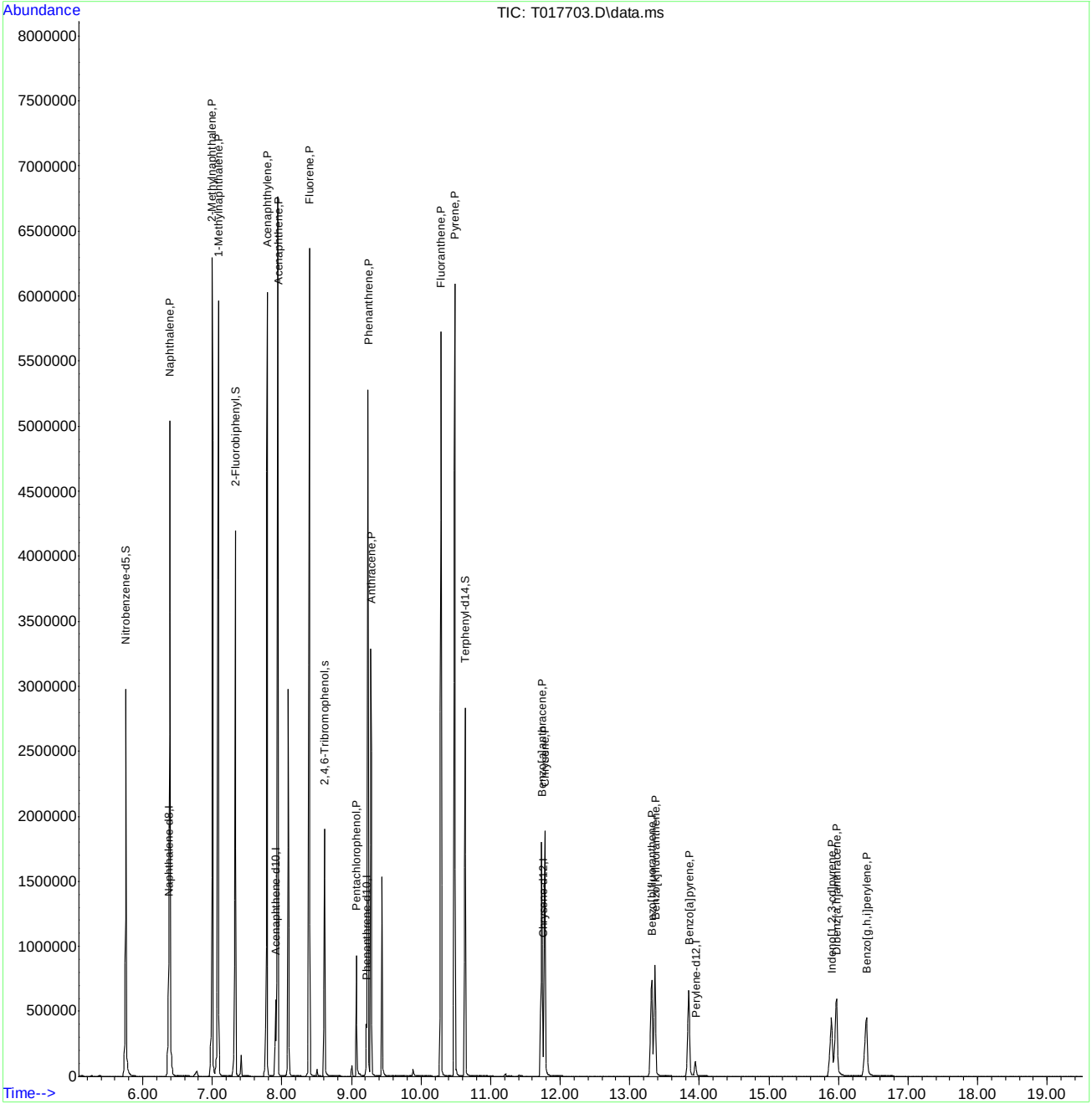
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) Naphthalene-d8	6.372	136	335343	500.00 ppb	0.00
6) Acenaphthene-d10	7.909	164	168882	500.00 ppb	0.00
11) Phenanthrene-d10	9.211	188	275426	500.00 ppb	0.00
17) Chrysene-d12	11.747	240	229074	500.00 ppb	0.00
22) Perylene-d12	13.942	264	131567	500.00 ppb	0.00
System Monitoring Compounds					
2) Nitrobenzene-d5	5.759	82	1582355	4935.37 ppb	0.00
Spiked Amount 2000.000	Range 38 - 126		Recovery = 246.77%#		
7) 2-Fluorobiphenyl	7.329	172	2582383	4864.26 ppb	0.00
Spiked Amount 2000.000	Range 41 - 109		Recovery = 243.21%#		
12) 2,4,6-Tribromophenol	8.614	330	670206	9554.88 ppb	0.00
Spiked Amount 4000.000	Range 33 - 118		Recovery = 238.87%#		
19) Terphenyl-d14	10.635	244	1977687	4755.75 ppb	0.00
Spiked Amount 2000.000	Range 46 - 135		Recovery = 237.79%#		
Target Compounds					Qvalue
3) Naphthalene	6.393	128	4131433	5004.30 ppb	100
4) 2-Methylnaphthalene	7.003	142	2552152	4811.23 ppb	98
5) 1-Methylnaphthalene	7.087	142	2327558	4828.08 ppb	98
8) Acenaphthylene	7.785	152	3828406	5019.71 ppb	98
9) Acenaphthene	7.941	153	2230038	4744.41 ppb	98
10) Fluorene	8.396	166	2571496	4821.05 ppb	99
13) Pentachlorophenol	9.073	266	297171	13471.30 ppb	100
14) Phenanthrene	9.241	178	3441891	4701.60 ppb	97
15) Anthracene	9.280	178	1921595	2537.45 ppb	99
16) Fluoranthene	10.286	202	3636493	4939.58 ppb	96
18) Pyrene	10.483	202	3741136	4669.19 ppb	94
20) Benzo[a]anthracene	11.735	228	1527504	2511.69 ppb	100
21) Chrysene	11.783	228	1442037	2461.58 ppb	100
23) Benzo[b]fluoranthene	13.315	252	958062	2508.14 ppb	99
24) Benzo[k]fluoranthene	13.362	252	989554	2499.66 ppb	98
25) Benzo[a]pyrene	13.849	252	899252	2583.89 ppb	99
26) Indeno[1,2,3-cd]pyrene	15.901	276	666326	2491.78 ppb	96
27) Dibenz[a,h]anthracene	15.971	278	696263	2593.12 ppb	97
28) Benzo[g,h,i]perylene	16.405	276	720231	2322.69 ppb	97

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\st809\
Data File : T017703.D
Acq On : 1 Apr 2015 4:07 pm
Operator : mayrag
Sample : ic809-6
Misc : op55409,st809,250,,,1,1,water
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Apr 06 09:15:53 2015
Quant Method : C:\msdchem\1\METHODS\SIM_LV.M
Quant Title : PAH's by 8270 SIM
QLast Update : Mon Apr 06 09:07:09 2015
Response via : Initial Calibration



T017704.D

Manual Integrations APPROVED (compounds with "m" flag)

Mike Eger 04/06/15 15:36

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\st809\
Data File : T017704.D
Acq On : 1 Apr 2015 4:37 pm
Operator : mayrag
Sample : ic809-7
Misc : op55409,st809,250,,,1,1,water
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Apr 06 09:16:41 2015
Quant Method : C:\msdchem\1\METHODS\SIM_LV.M
Quant Title : PAH's by 8270 SIM
QLast Update : Mon Apr 06 09:07:09 2015
Response via : Initial Calibration

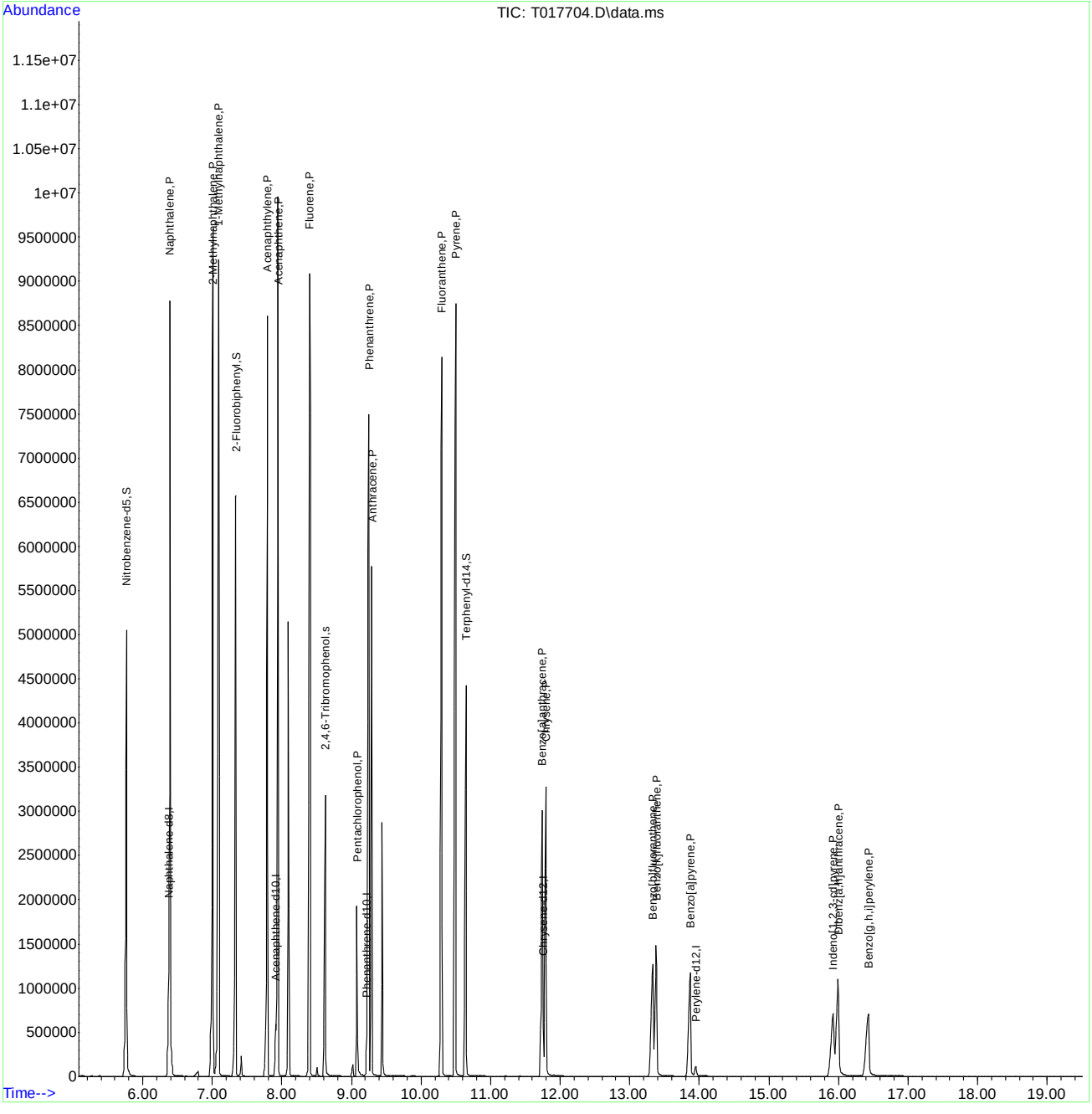
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) Naphthalene-d8	6.372	136	330537	500.00 ppb	0.00
6) Acenaphthene-d10	7.908	164	162978	500.00 ppb	0.00
11) Phenanthrene-d10	9.216	188	287088	500.00 ppb	0.00
17) Chrysene-d12	11.755	240	224107	500.00 ppb	0.01
22) Perylene-d12	13.947	264	128672	500.00 ppb	0.01
System Monitoring Compounds					
2) Nitrobenzene-d5	5.765	82	3013952	9537.20 ppb	0.01
Spiked Amount 2000.000	Range 38 - 126		Recovery = 476.86%#		
7) 2-Fluorobiphenyl	7.335	172	4714092	9201.28 ppb	0.00
Spiked Amount 2000.000	Range 41 - 109		Recovery = 460.06%#		
12) 2,4,6-Tribromophenol	8.621	330	1333777	18242.73 ppb	0.02
Spiked Amount 4000.000	Range 33 - 118		Recovery = 456.07%#		
19) Terphenyl-d14	10.643	244	3748423	9213.61 ppb	0.02
Spiked Amount 2000.000	Range 46 - 135		Recovery = 460.68%#		
Target Compounds					Qvalue
3) Naphthalene	6.396	128	7569187	9301.67 ppb	99
4) 2-Methylnaphthalene	7.007	142	4623354	8842.52 ppb	98
5) 1-Methylnaphthalene	7.093	142	4187583	8812.65 ppb	98
8) Acenaphthylene	7.793	152	6734765	9150.34 ppb	99
9) Acenaphthene	7.945	153	3975270	8763.78 ppb	96
10) Fluorene	8.403	166	4550459	8840.27 ppb	98
13) Pentachlorophenol	9.078	266	717567	31207.24 ppb	96
14) Phenanthrene	9.250	178	6395100	8380.81 ppb	96
15) Anthracene	9.290	178	3563132	4513.96 ppb	98
16) Fluoranthene	10.294	202	6591952	8590.36 ppb	98
18) Pyrene	10.495	202	6839326	8725.13 ppb	96
20) Benzo[a]anthracene	11.742	228	2930679	4925.76 ppb	100
21) Chrysene	11.793	228	2737925	4777.27 ppb	100
23) Benzo[b]fluoranthene	13.327	252	1952555	5226.66 ppb	99
24) Benzo[k]fluoranthene	13.380	252	1920559m	4960.57 ppb	
25) Benzo[a]pyrene	13.869	252	1732199	5089.24 ppb	99
26) Indeno[1,2,3-cd]pyrene	15.921	276	1313500	5022.46 ppb	94
27) Dibenz[a,h]anthracene	15.993	278	1415486	5390.37 ppb	97
28) Benzo[g,h,i]perylene	16.432	276	1334857	4401.67 ppb	96

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\st809\
Data File : T017704.D
Acq On : 1 Apr 2015 4:37 pm
Operator : mayrag
Sample : ic809-7
Misc : op55409,st809,250,,,1,1,water
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Apr 06 09:16:41 2015
Quant Method : C:\msdchem\1\METHODS\SIM_LV.M
Quant Title : PAH's by 8270 SIM
QLast Update : Mon Apr 06 09:07:09 2015
Response via : Initial Calibration



SIM_LV.M Mon Apr 06 09:16:50 2015 Page: 2

Manual Integration Approval Summary

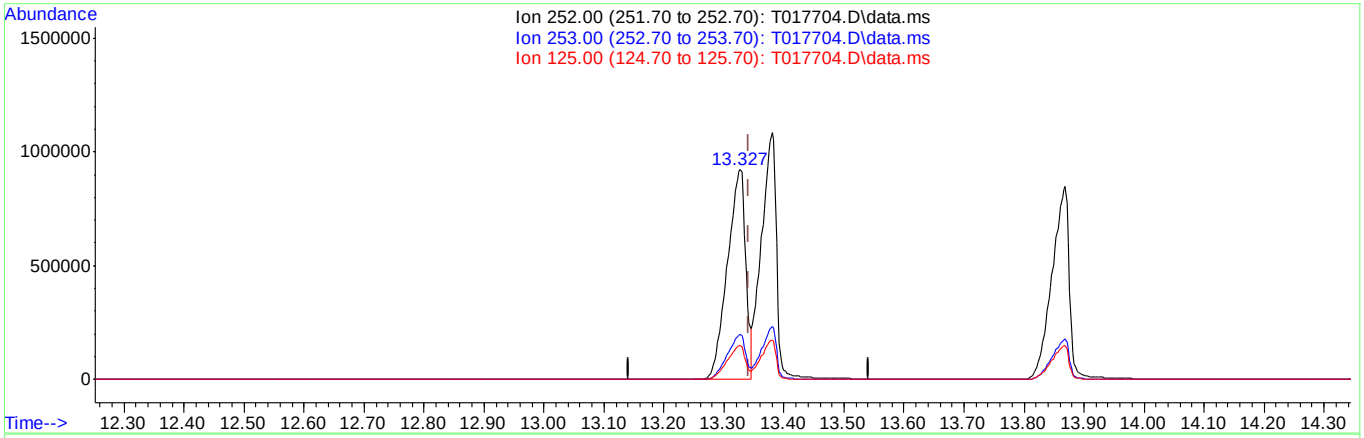
Sample Number:	ST809-IC809	**Method:**	SW846 8270D BY SIM
Lab FileID:	T017704.D	**Analyst approved:**	04/06/15 14:26 Mayra Gonzalez
Injection Time:	04/01/15 16:37	**Supervisor approved:**	04/06/15 15:36 Mike Eger

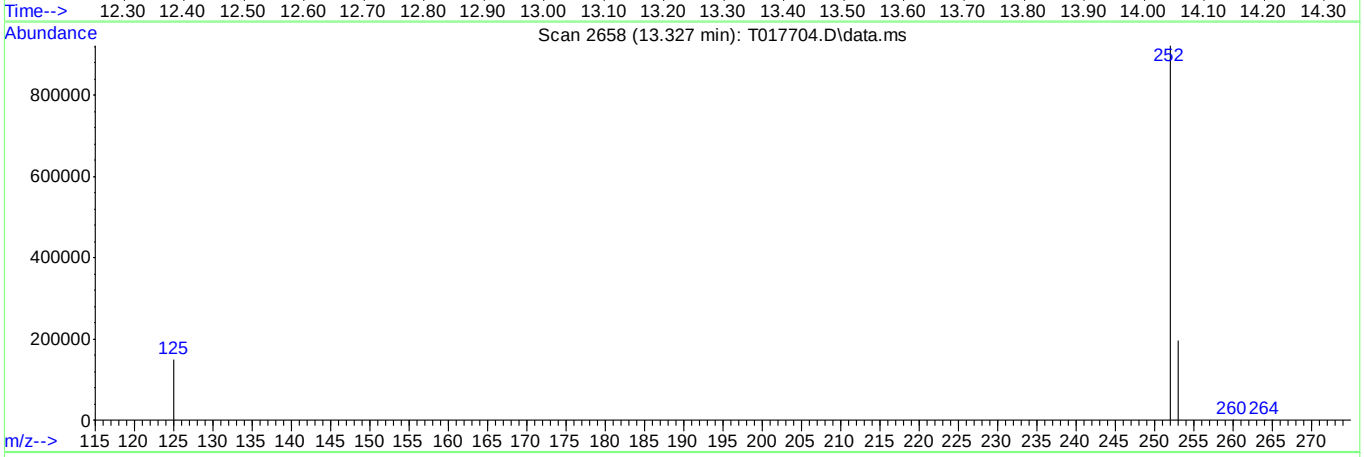
Parameter	CAS	Sig#	R.T. (min.)	Reason
Benzo(k)fluoranthene	207-08-9		13.38	Missed peak

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\st809\
Data File : T017704.D
Acq On : 1 Apr 2015 4:37 pm
Operator : mayrag
Sample : ic809-7
Misc : op55409,st809,250,,,1,1,water
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Apr 06 09:16:20 2015
Quant Method : C:\msdchem\1\METHODS\SIM_LV.M
Quant Title : PAH's by 8270 SIM
QLast Update : Mon Apr 06 09:07:09 2015
Response via : Initial Calibration





TIC: T017704.D\data.ms

(24) Benzo[k]fluoranthene (P)

13.327min (-0.015) 5043.21ppb

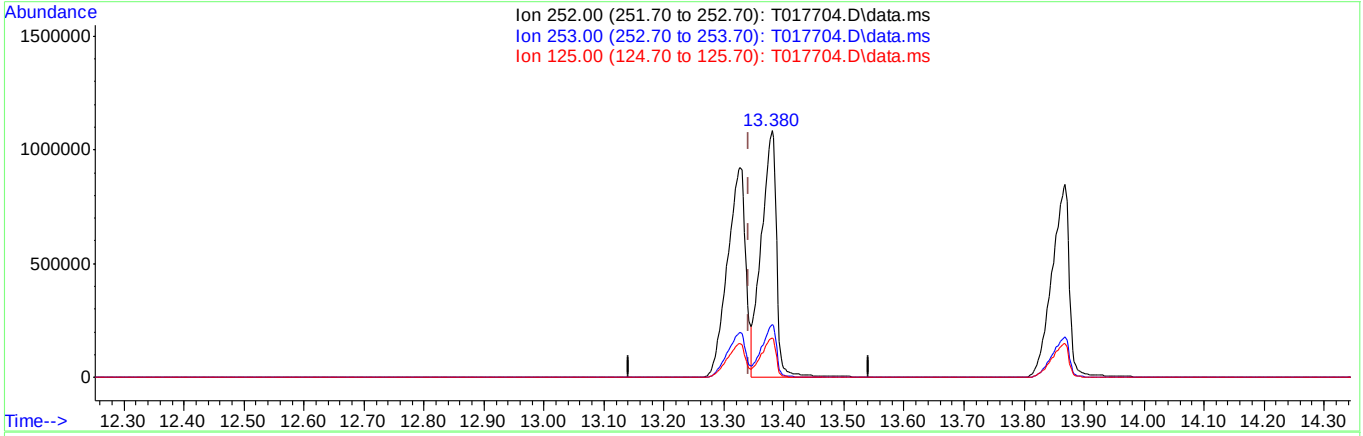
response 1952555

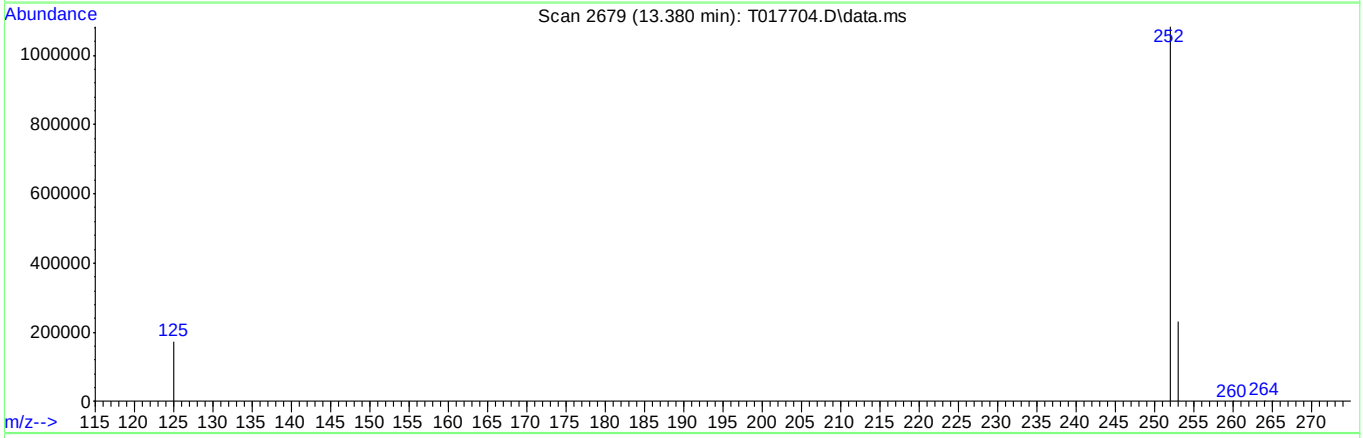
Ion	Exp%	Act%
252.00	100	100
253.00	22.00	21.22
125.00	16.90	16.18
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\st809\
Data File : T017704.D
Acq On : 1 Apr 2015 4:37 pm
Operator : mayrag
Sample : ic809-7
Misc : op55409,st809,250,,,1,1,water
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Apr 06 09:16:20 2015
Quant Method : C:\msdchem\1\METHODS\SIM_LV.M
Quant Title : PAH's by 8270 SIM
QLast Update : Mon Apr 06 09:07:09 2015
Response via : Initial Calibration





TIC: T017704.D\data.ms

(24) Benzo[k]fluoranthene (P)

13.380min (+0.038) 4960.57ppb m

response 1920559

Ion	Exp%	Act%
252.00	100	100
253.00	22.00	21.29
125.00	16.90	16.03
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\st809\
Data File : T017706.D
Acq On : 1 Apr 2015 5:38 pm
Operator : mayrag
Sample : icv809-4
Misc : op55409,st809,250,,,1,1,water
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Apr 06 09:18:29 2015
Quant Method : C:\msdchem\1\METHODS\SIM_LV.M
Quant Title : PAH's by 8270 SIM
QLast Update : Mon Apr 06 09:17:56 2015
Response via : Initial Calibration

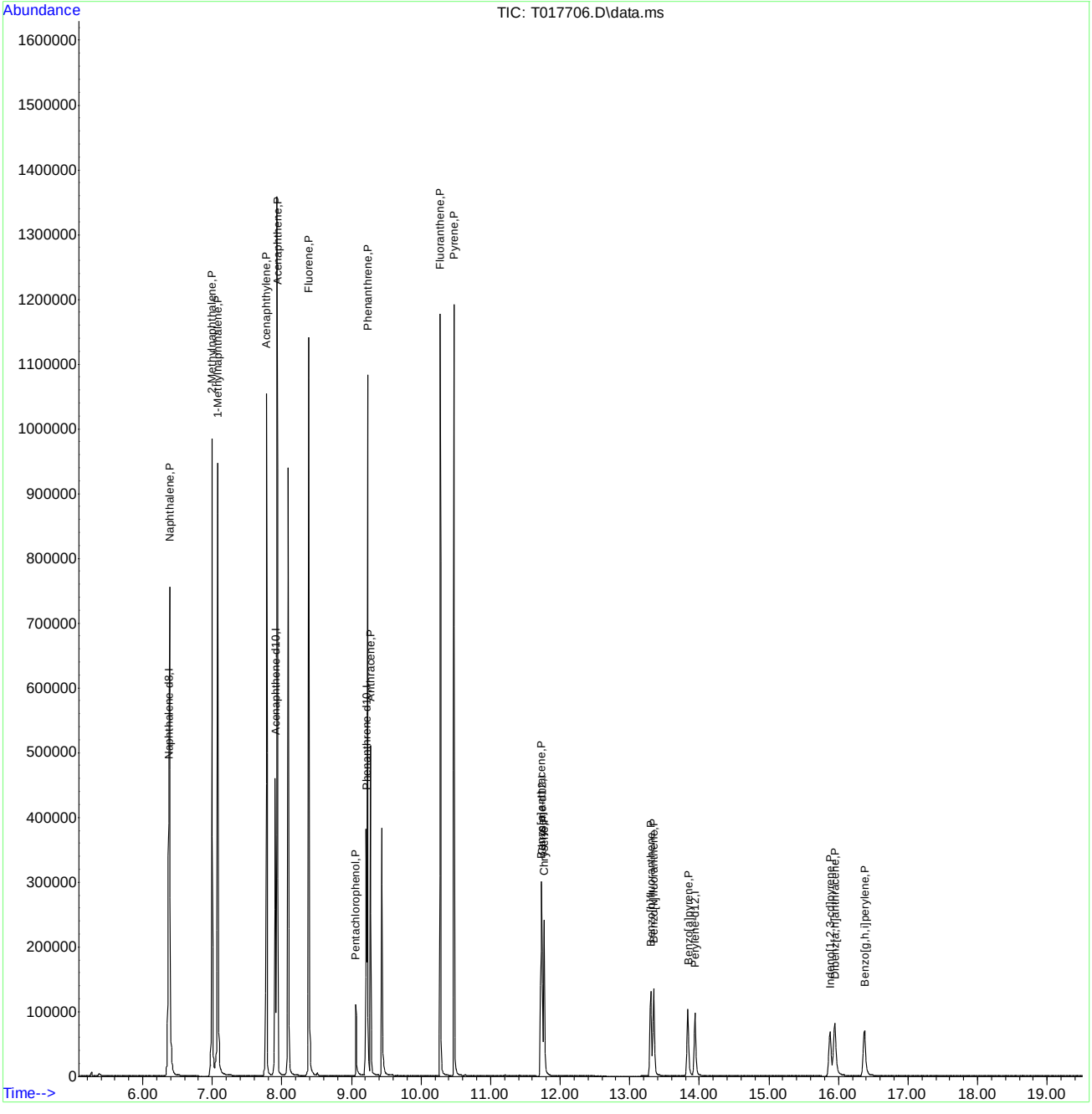
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Naphthalene-d8	6.369	136	297338	500.00	ppb	0.00
6) Acenaphthene-d10	7.904	164	153272	500.00	ppb	0.00
11) Phenanthrene-d10	9.211	188	252694	500.00	ppb	0.00
17) Chrysene-d12	11.740	240	161901	500.00	ppb	0.00
22) Perylene-d12	13.937	264	118657	500.00	ppb	0.00
System Monitoring Compounds						
2) Nitrobenzene-d5	0.000	82	0	0.00	ppb	
Spiked Amount 2000.000	Range 38 - 126		Recovery = 0.00%#			
7) 2-Fluorobiphenyl	0.000	172	0	0.00	ppb	
Spiked Amount 2000.000	Range 41 - 109		Recovery = 0.00%#			
12) 2,4,6-Tribromophenol	0.000	330	0	0.00	ppb	
Spiked Amount 4000.000	Range 33 - 118		Recovery = 0.00%#			
19) Terphenyl-d14	0.000	244	0	0.00	ppb	
Spiked Amount 2000.000	Range 46 - 135		Recovery = 0.00%#			
Target Compounds						Qvalue
3) Naphthalene	6.387	128	662165	899.92	ppb	99
4) 2-Methylnaphthalene	6.996	142	398995	887.71	ppb	98
5) 1-Methylnaphthalene	7.080	142	409654	965.08	ppb	96
8) Acenaphthylene	7.781	152	639565	903.30	ppb	100
9) Acenaphthene	7.933	153	407289	941.53	ppb	97
10) Fluorene	8.388	166	456427	989.72	ppb	99
13) Pentachlorophenol	9.064	266	40381	2366.66	ppb	94
14) Phenanthrene	9.231	178	619012	930.49	ppb	98
15) Anthracene	9.275	178	299518	423.61	ppb	99
16) Fluoranthene	10.278	202	595887	913.49	ppb	99
18) Pyrene	10.475	202	625668	1057.88	ppb	99
20) Benzo[a]anthracene	11.727	228	182315	423.28	ppb	100
21) Chrysene	11.772	228	190214	454.59	ppb	99
23) Benzo[b]fluoranthene	13.299	252	148330	437.07	ppb	99
24) Benzo[k]fluoranthene	13.342	252	163961	450.73	ppb	99
25) Benzo[a]pyrene	13.836	252	131908	419.64	ppb	100
26) Indeno[1,2,3-cd]pyrene	15.880	276	95150	403.21	ppb	97
27) Dibenz[a,h]anthracene	15.946	278	100012	407.25	ppb	97
28) Benzo[g,h,i]perylene	16.372	276	110745	416.93	ppb	97

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\st809\
Data File : T017706.D
Acq On : 1 Apr 2015 5:38 pm
Operator : mayrag
Sample : icv809-4
Misc : op55409,st809,250,,,1,1,water
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Apr 06 09:18:29 2015
Quant Method : C:\msdchem\1\METHODS\SIM_LV.M
Quant Title : PAH's by 8270 SIM
QLast Update : Mon Apr 06 09:17:56 2015
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\st811\
Data File : T017724.D
Acq On : 7 Apr 2015 10:26 am
Operator : mayrag
Sample : cc809-5
Misc : op55409,st811,250,,,1,1,water
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Apr 08 09:06:56 2015
Quant Method : C:\msdchem\1\METHODS\SIM_LV.M
Quant Title : PAH's by 8270 SIM
QLast Update : Wed Apr 08 09:06:52 2015
Response via : Initial Calibration

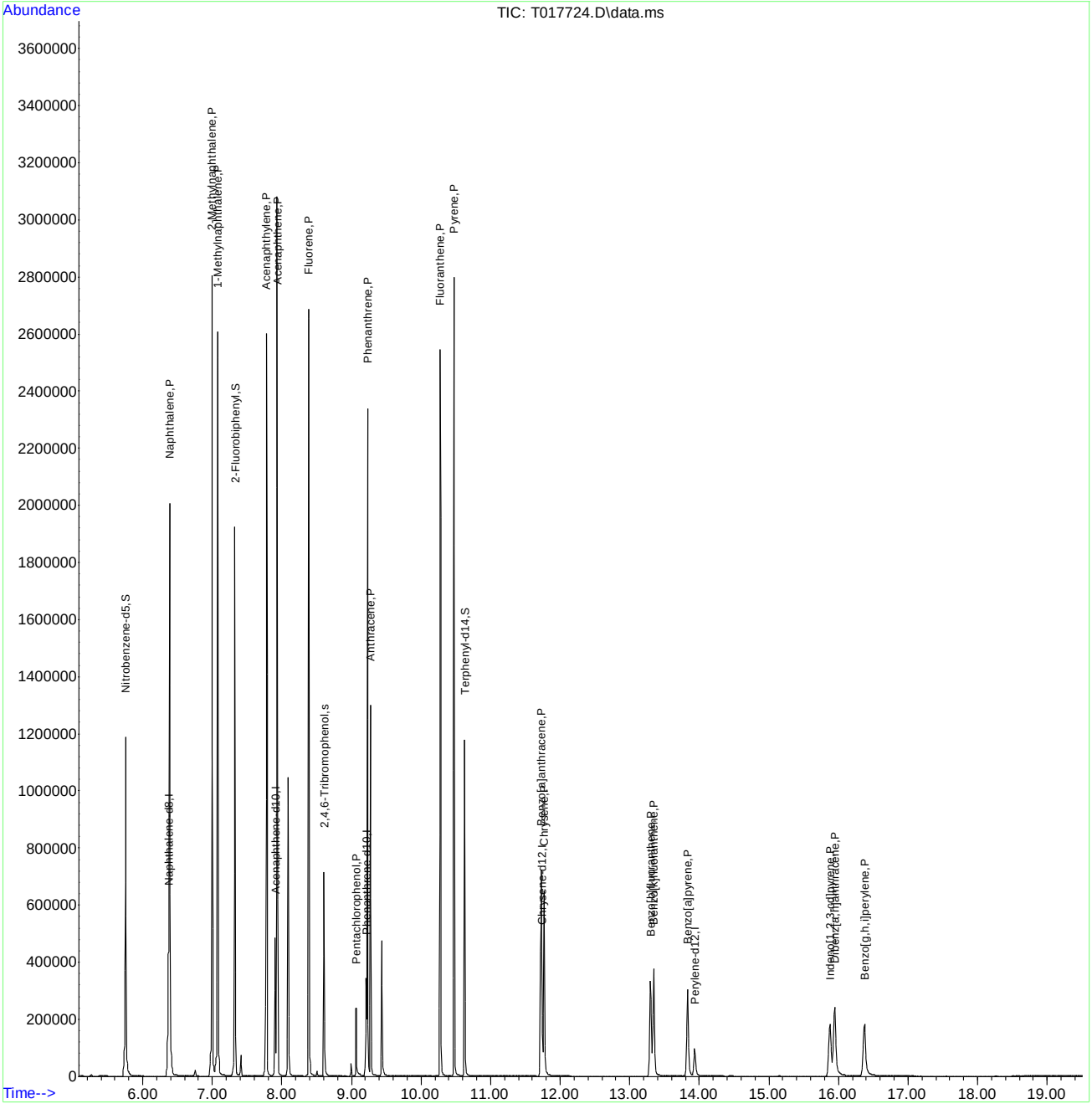
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) Naphthalene-d8	6.369	136	280510	500.00 ppb	0.00
6) Acenaphthene-d10	7.904	164	141501	500.00 ppb	0.00
11) Phenanthrene-d10	9.211	188	229658	500.00 ppb	0.00
17) Chrysene-d12	11.740	240	181883	500.00 ppb	0.00
22) Perylene-d12	13.932	264	124709	500.00 ppb	0.00
System Monitoring Compounds					
2) Nitrobenzene-d5	5.756	82	584910	2257.46 ppb	0.00
Spiked Amount 2000.000	Range 38 - 126		Recovery = 112.87%		
7) 2-Fluorobiphenyl	7.325	172	1061144	2301.01 ppb	0.00
Spiked Amount 2000.000	Range 41 - 109		Recovery = 115.05%#		
12) 2,4,6-Tribromophenol	8.606	330	228105	4127.50 ppb	0.00
Spiked Amount 4000.000	Range 33 - 118		Recovery = 103.19%		
19) Terphenyl-d14	10.627	244	751148	2145.39 ppb	0.00
Spiked Amount 2000.000	Range 46 - 135		Recovery = 107.27%		
Target Compounds					Qvalue
3) Naphthalene	6.390	128	1518897	2188.11 ppb	100
4) 2-Methylnaphthalene	6.996	142	980574	2312.53 ppb	97
5) 1-Methylnaphthalene	7.080	142	919222	2295.46 ppb	96
8) Acenaphthylene	7.781	152	1479791	2263.87 ppb	99
9) Acenaphthene	7.933	153	886781	2220.50 ppb	95
10) Fluorene	8.390	166	993119	2332.64 ppb	98
13) Pentachlorophenol	9.068	266	87091	5284.49 ppb	99
14) Phenanthrene	9.231	178	1336547	2210.60 ppb	98
15) Anthracene	9.275	178	724726	1127.80 ppb	99
16) Fluoranthene	10.278	202	1403786	2367.85 ppb	97
18) Pyrene	10.475	202	1439026	2165.80 ppb	97
20) Benzo[a]anthracene	11.727	228	528509	1092.22 ppb	99
21) Chrysene	11.772	228	502430	1068.84 ppb	100
23) Benzo[b]fluoranthene	13.297	252	402449	1128.31 ppb	100
24) Benzo[k]fluoranthene	13.342	252	436473	1141.64 ppb	99
25) Benzo[a]pyrene	13.834	252	384207	1162.96 ppb	99
26) Indeno[1,2,3-cd]pyrene	15.878	276	269398	1086.21 ppb	96
27) Dibenz[a,h]anthracene	15.943	278	286935	1111.70 ppb	97
28) Benzo[g,h,i]perylene	16.374	276	301289	1079.25 ppb	96

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\st811\
Data File : T017724.D
Acq On : 7 Apr 2015 10:26 am
Operator : mayrag
Sample : cc809-5
Misc : op55409,st811,250,,,1,1,water
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Apr 08 09:06:56 2015
Quant Method : C:\msdchem\1\METHODS\SIM_LV.M
Quant Title : PAH's by 8270 SIM
QLast Update : Wed Apr 08 09:06:52 2015
Response via : Initial Calibration

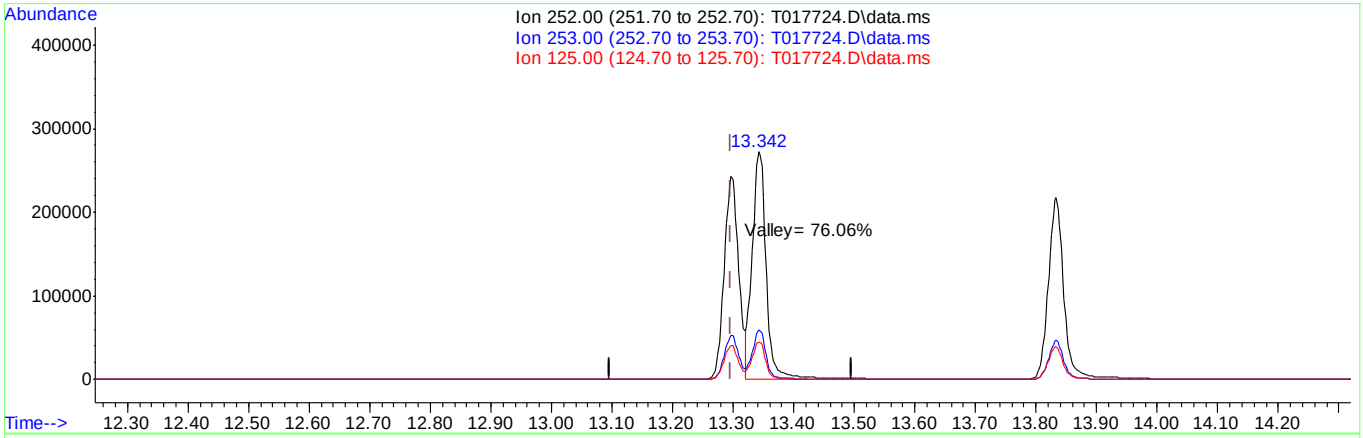


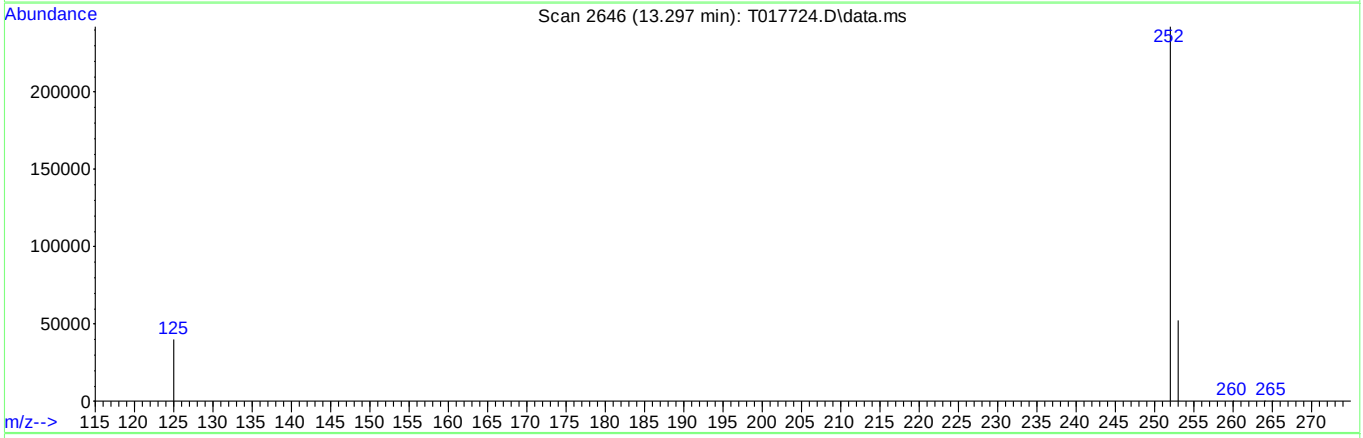
ACCUTEST LABORATORIES FA23258

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\st811\
Data File : T017724.D
Acq On : 7 Apr 2015 10:26 am
Operator : mayrag
Sample : cc809-5
Misc : op55409,st811,250,,,1,1,water
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Apr 08 09:06:56 2015
Quant Method : C:\msdchem\1\METHODS\SIM_LV.M
Quant Title : PAH's by 8270 SIM
QLast Update : Wed Apr 08 09:06:52 2015
Response via : Initial Calibration





TIC: T017724.D\data.ms

(23) Benzo[b]fluoranthene (P)

13.297min (-0.000) 1128.31ppb

response 402449

Ion	Exp%	Act%
252.00	100	100
253.00	21.90	21.65
125.00	16.60	16.65
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\st811\
Data File : T017745.D
Acq On : 7 Apr 2015 9:02 pm
Operator : mayrag
Sample : cc809-5
Misc : op55409,st811,250,,,1,1,water
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Apr 08 09:09:43 2015
Quant Method : C:\msdchem\1\METHODS\SIM_LV.M
Quant Title : PAH's by 8270 SIM
QLast Update : Wed Apr 08 09:06:52 2015
Response via : Initial Calibration

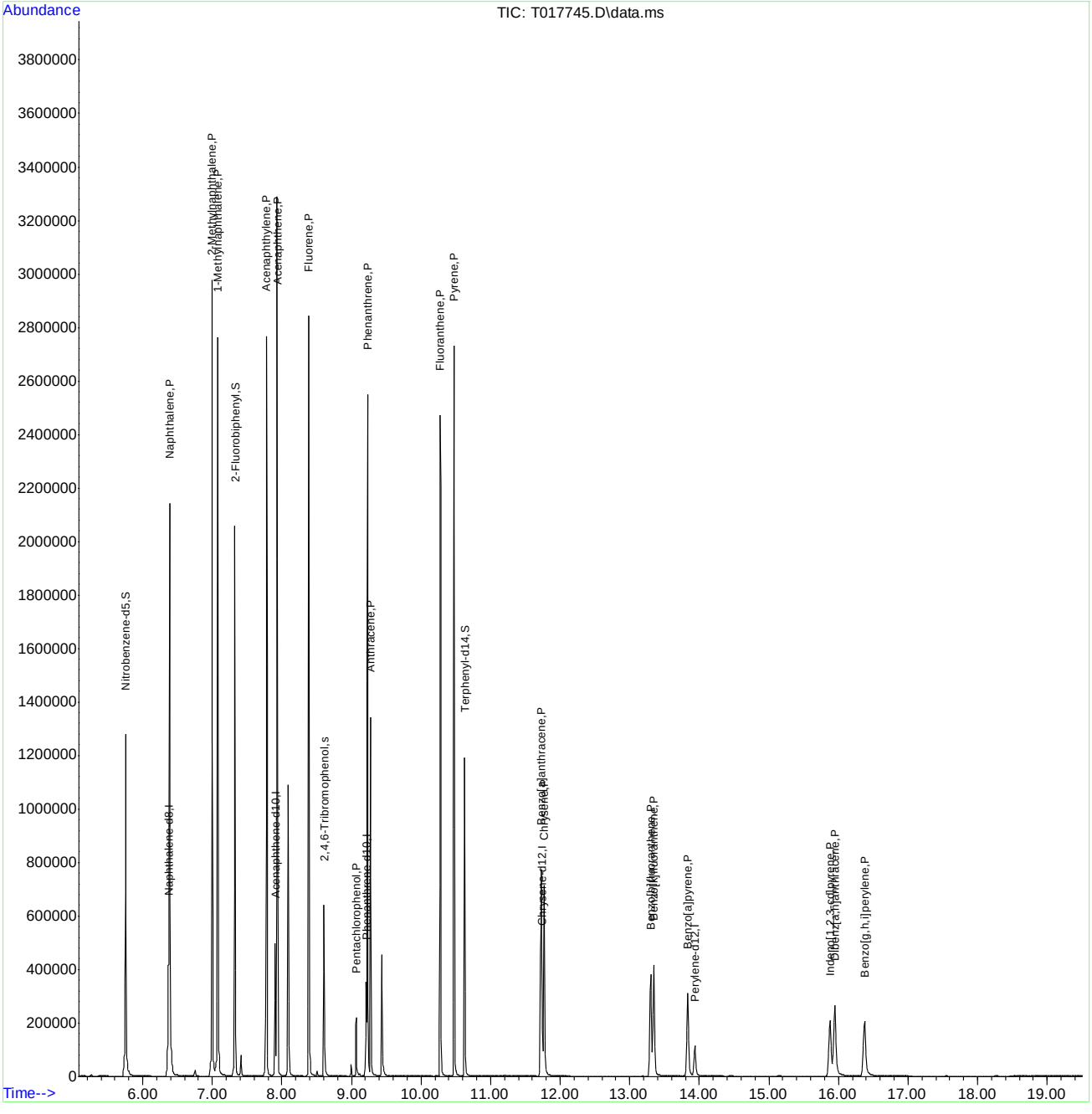
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) Naphthalene-d8	6.369	136	297755	500.00 ppb	0.00
6) Acenaphthene-d10	7.904	164	150604	500.00 ppb	0.00
11) Phenanthrene-d10	9.211	188	239875	500.00 ppb	0.00
17) Chrysene-d12	11.740	240	193542	500.00 ppb	0.00
22) Perylene-d12	13.934	264	140692	500.00 ppb	0.00
System Monitoring Compounds					
2) Nitrobenzene-d5	5.756	82	589511	2143.44 ppb	0.00
Spiked Amount 2000.000	Range 38 - 126		Recovery = 107.17%		
7) 2-Fluorobiphenyl	7.325	172	1108483	2258.37 ppb	0.00
Spiked Amount 2000.000	Range 41 - 109		Recovery = 112.92%#		
12) 2,4,6-Tribromophenol	8.606	330	219327	3797.08 ppb	0.00
Spiked Amount 4000.000	Range 33 - 118		Recovery = 94.93%		
19) Terphenyl-d14	10.627	244	775327	2081.05 ppb	0.00
Spiked Amount 2000.000	Range 46 - 135		Recovery = 104.05%		
Target Compounds					Qvalue
3) Naphthalene	6.387	128	1602847	2175.31 ppb	99
4) 2-Methylnaphthalene	6.998	142	1041694	2314.39 ppb	98
5) 1-Methylnaphthalene	7.080	142	959082	2256.29 ppb	95
8) Acenaphthylene	7.781	152	1546271	2222.59 ppb	99
9) Acenaphthene	7.933	153	943015	2218.59 ppb	94
10) Fluorene	8.391	166	1051260	2319.95 ppb	97
13) Pentachlorophenol	9.069	266	76389	4508.51 ppb	99
14) Phenanthrene	9.231	178	1415800	2241.95 ppb	98
15) Anthracene	9.275	178	747333	1113.44 ppb	99
16) Fluoranthene	10.278	202	1396910	2255.90 ppb	96
18) Pyrene	10.475	202	1426815	2018.06 ppb	95
20) Benzo[a]anthracene	11.727	228	558830	1085.31 ppb	100
21) Chrysene	11.772	228	542595	1084.75 ppb	99
23) Benzo[b]fluoranthene	13.300	252	450035	1118.39 ppb	99
24) Benzo[k]fluoranthene	13.345	252	477421	1106.88 ppb	99
25) Benzo[a]pyrene	13.834	252	418052	1121.65 ppb	99
26) Indeno[1,2,3-cd]pyrene	15.878	276	289662	1035.23 ppb	95
27) Dibenz[a,h]anthracene	15.948	278	303954	1043.85 ppb	96
28) Benzo[g,h,i]perylene	16.380	276	329377	1045.83 ppb	96

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\st811\
Data File : T017745.D
Acq On : 7 Apr 2015 9:02 pm
Operator : mayrag
Sample : cc809-5
Misc : op55409,st811,250,,,1,1,water
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Apr 08 09:09:43 2015
Quant Method : C:\msdchem\1\METHODS\SIM_LV.M
Quant Title : PAH's by 8270 SIM
QLast Update : Wed Apr 08 09:06:52 2015
Response via : Initial Calibration



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Manual Integrations APPROVED (compounds with "m" flag)
Mike Eger
04/13/15 16:31

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\st813\
Data File : T017842.D
Acq On : 10 Apr 2015 1:52 pm
Operator : mayrag
Sample : ic813-1
Misc : op55409,st813,250,,,1,1,water
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Apr 13 09:44:07 2015
Quant Method : C:\msdchem\1\METHODS\SIM_LV.M
Quant Title : PAH's by 8270 SIM
QLast Update : Mon Apr 13 09:42:56 2015
Response via : Initial Calibration

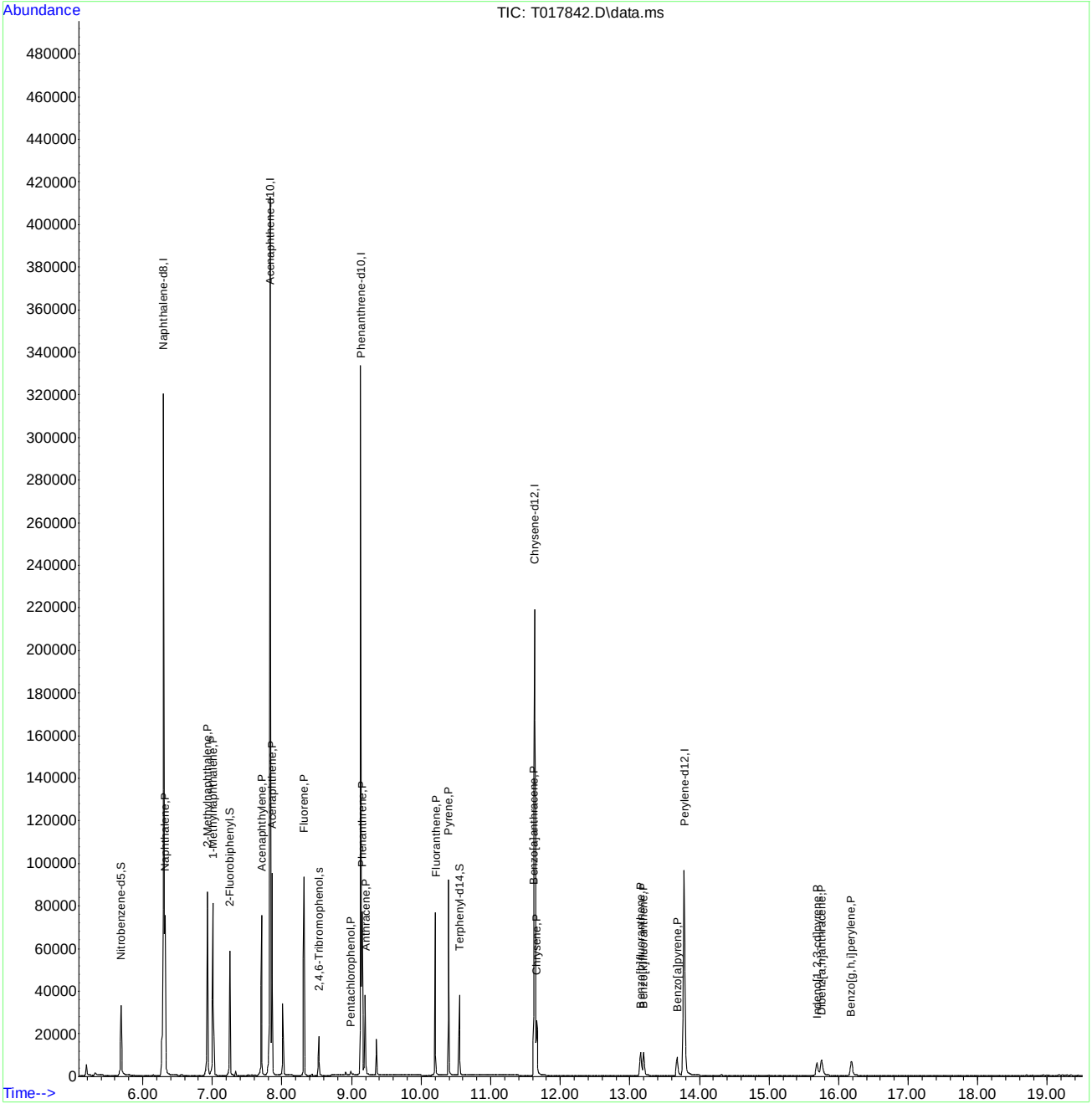
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Naphthalene-d8	6.300	136	247597	500.00	ppb	0.00
6) Acenaphthene-d10	7.831	164	127426	500.00	ppb	0.00
11) Phenanthrene-d10	9.135	188	211772	500.00	ppb	0.00
17) Chrysene-d12	11.633	240	157521	500.00	ppb	0.00
22) Perylene-d12	13.782	264	112093	500.00	ppb	0.00
System Monitoring Compounds						
2) Nitrobenzene-d5	5.686	82	17578	76.86	ppb	0.00
Spiked Amount 2000.000	Range 38 - 126		Recovery = 3.84%#			
7) 2-Fluorobiphenyl	7.252	172	34208	82.37	ppb	0.00
Spiked Amount 2000.000	Range 41 - 109		Recovery = 4.12%#			
12) 2,4,6-Tribromophenol	8.530	330	5553	101.27	ppb	0.00
Spiked Amount 4000.000	Range 33 - 118		Recovery = 2.53%#			
19) Terphenyl-d14	10.552	244	24981	82.38	ppb	0.02
Spiked Amount 2000.000	Range 46 - 135		Recovery = 4.12%#			
Target Compounds						Qvalue
3) Naphthalene	6.317	128	51034	83.29	ppb	100
4) 2-Methylnaphthalene	6.924	142	32751	87.51	ppb	97
5) 1-Methylnaphthalene	7.008	142	29945	84.72	ppb	97
8) Acenaphthylene	7.704	152	43952	74.67	ppb	98
9) Acenaphthene	7.860	153	30115	83.74	ppb	98
10) Fluorene	8.314	166	32267	84.16	ppb	100
13) Pentachlorophenol	8.993	266	905m	73.46	ppb	
14) Phenanthrene	9.155	178	46511	83.42	ppb	98
15) Anthracene	9.199	178	21878	36.92	ppb	98
16) Fluoranthene	10.202	202	42716	78.14	ppb	96
18) Pyrene	10.395	202	46327	80.51	ppb	98
20) Benzo[a]anthracene	11.621	228	18527	44.21	ppb	99
21) Chrysene	11.663	228	18145	44.57	ppb	99
23) Benzo[b]fluoranthene	13.155	252	12411	38.71	ppb	100
24) Benzo[k]fluoranthene	13.198	252	12510	36.40	ppb	99
25) Benzo[a]pyrene	13.682	252	11179	37.65	ppb	99
26) Indeno[1,2,3-cd]pyrene	15.693	276	8162	36.61	ppb	97
27) Dibenz[a,h]anthracene	15.759	278	7958	34.30	ppb	96
28) Benzo[g,h,i]perylene	16.180	276	10187	40.60	ppb	97

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\st813\
Data File : T017842.D
Acq On : 10 Apr 2015 1:52 pm
Operator : mayrag
Sample : ic813-1
Misc : op55409,st813,250,,,1,1,water
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Apr 13 09:44:07 2015
Quant Method : C:\msdchem\1\METHODS\SIM_LV.M
Quant Title : PAH's by 8270 SIM
QLast Update : Mon Apr 13 09:42:56 2015
Response via : Initial Calibration



Manual Integration Approval Summary

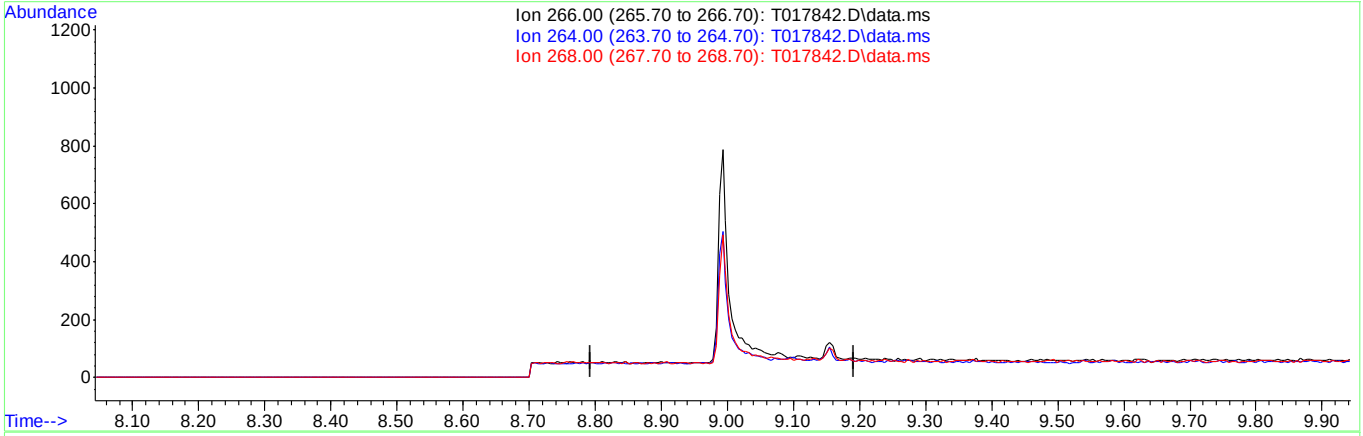
Sample Number:	ST813-IC813	**Method:**	SW846 8270D BY SIM
Lab FileID:	T017842.D	**Analyst approved:**	04/13/15 15:16 Mayra Gonzalez
Injection Time:	04/10/15 13:52	**Supervisor approved:**	04/13/15 16:31 Mike Eger

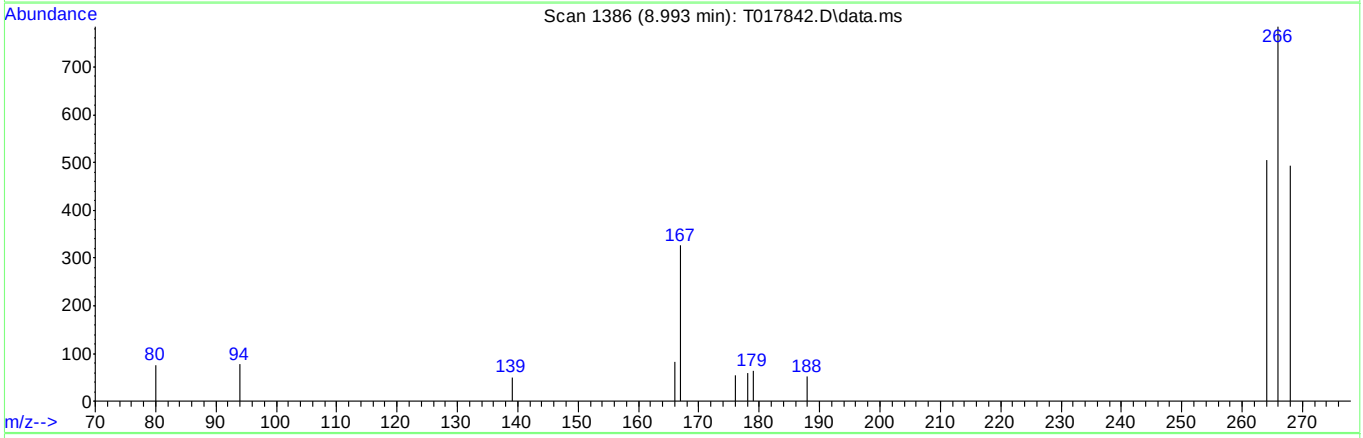
Parameter	CAS	Sig#	R.T. (min.)	Reason
Pentachlorophenol	87-86-5		8.99	Missed peak

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\DATA\st813\
Data File : T017842.D
Acq On    : 10 Apr 2015   1:52 pm
Operator  : mayrag
Sample    : ic813-1
Misc      : op55409,st813,250,,,1,1,water
ALS Vial  : 2   Sample Multiplier: 1

Quant Time: Apr 13 09:43:26 2015
Quant Method : C:\msdchem\1\METHODS\SIM_LV.M
Quant Title  : PAH's by 8270 SIM
QLast Update : Mon Apr 13 09:42:56 2015
Response via : Initial Calibration
```





TIC: T017842.D\data.ms

(13) Pentachlorophenol (P)

8.993min (-8.993) 0.00ppb

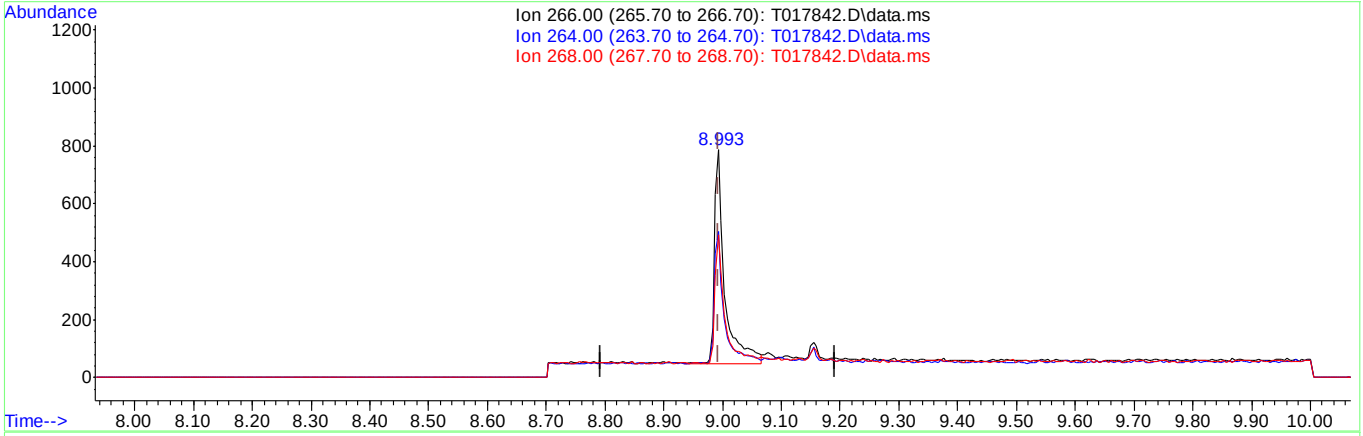
response 0

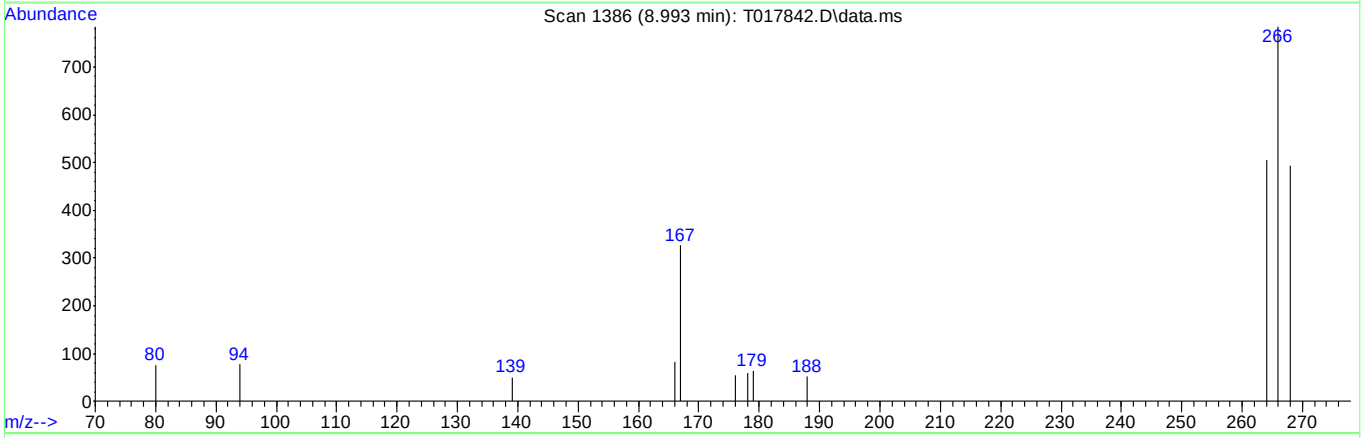
Ion	Exp%	Act%
266.00	100	0.00
264.00	60.90	0.00#
268.00	62.00	0.00#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\st813\
Data File : T017842.D
Acq On : 10 Apr 2015 1:52 pm
Operator : mayrag
Sample : ic813-1
Misc : op55409,st813,250,,,1,1,water
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Apr 13 09:43:26 2015
Quant Method : C:\msdchem\1\METHODS\SIM_LV.M
Quant Title : PAH's by 8270 SIM
QLast Update : Mon Apr 13 09:42:56 2015
Response via : Initial Calibration





TIC: T017842.D\data.ms

(13) Pentachlorophenol (P)

8.993min (-0.001) 73.46ppb m

response 905

Ion	Exp%	Act%
266.00	100	100
264.00	60.90	64.46
268.00	62.00	62.80
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\st813\
Data File : T017843.D
Acq On : 10 Apr 2015 2:23 pm
Operator : mayrag
Sample : ic813-2
Misc : op55409,st813,250,,,1,1,water
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Apr 13 09:45:00 2015
Quant Method : C:\msdchem\1\METHODS\SIM_LV.M
Quant Title : PAH's by 8270 SIM
QLast Update : Mon Apr 13 09:42:56 2015
Response via : Initial Calibration

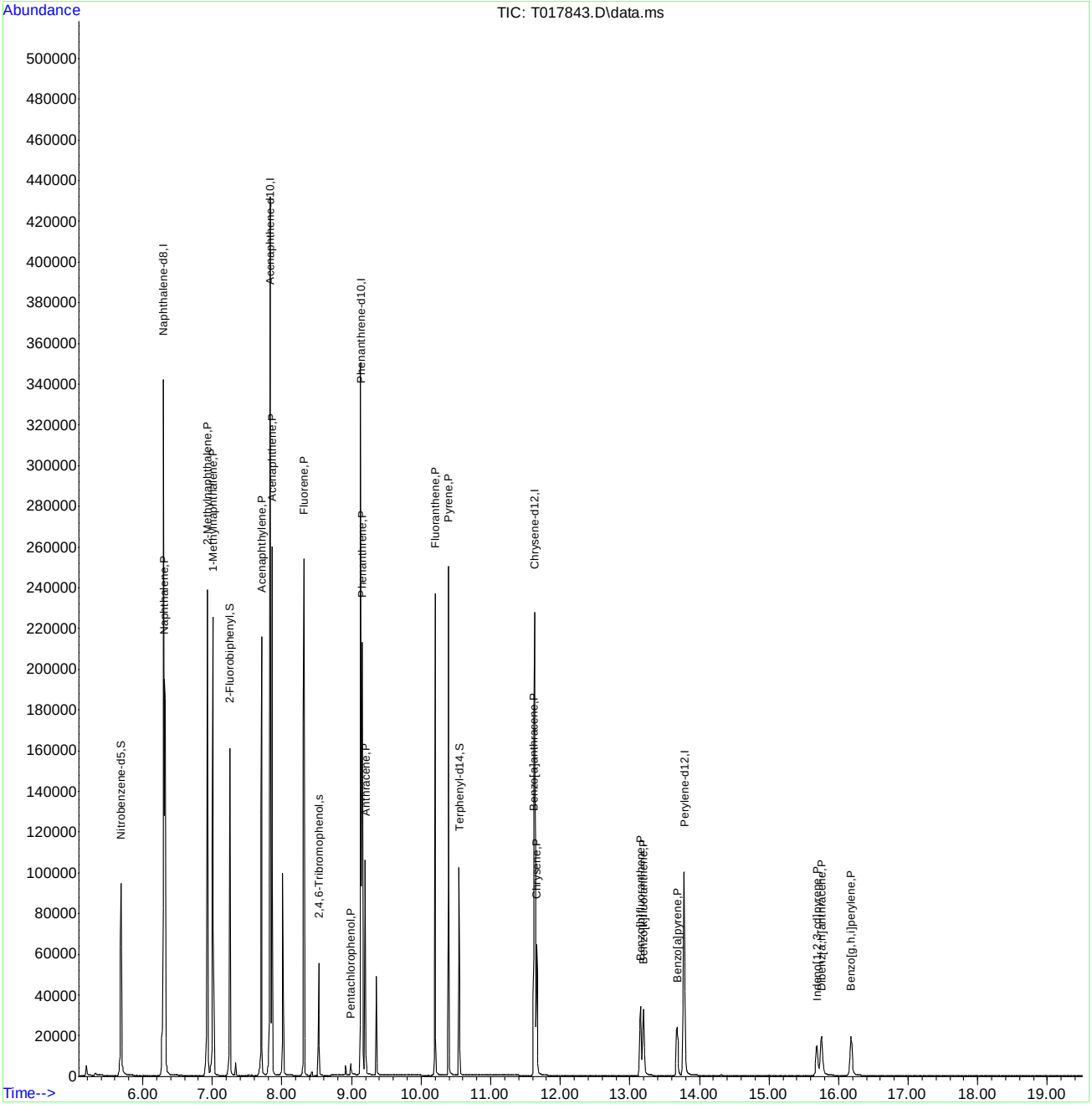
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Naphthalene-d8	6.300	136	254928	500.00	ppb	0.00
6) Acenaphthene-d10	7.831	164	129726	500.00	ppb	0.00
11) Phenanthrene-d10	9.135	188	217152	500.00	ppb	0.00
17) Chrysene-d12	11.633	240	153901	500.00	ppb	0.00
22) Perylene-d12	13.782	264	114304	500.00	ppb	0.00
System Monitoring Compounds						
2) Nitrobenzene-d5	5.686	82	48843	207.43	ppb	0.00
Spiked Amount 2000.000	Range 38 - 126		Recovery = 10.37%#			
7) 2-Fluorobiphenyl	7.252	172	93433	220.99	ppb	0.00
Spiked Amount 2000.000	Range 41 - 109		Recovery = 11.05%#			
12) 2,4,6-Tribromophenol	8.530	330	16371	291.17	ppb	0.00
Spiked Amount 4000.000	Range 33 - 118		Recovery = 7.28%#			
19) Terphenyl-d14	10.552	244	65600	221.43	ppb	0.02
Spiked Amount 2000.000	Range 46 - 135		Recovery = 11.07%#			
Target Compounds						Qvalue
3) Naphthalene	6.314	128	139014	220.36	ppb	99
4) 2-Methylnaphthalene	6.924	142	89931	233.37	ppb	99
5) 1-Methylnaphthalene	7.008	142	82128	225.67	ppb	98
8) Acenaphthylene	7.704	152	124582	207.89	ppb	98
9) Acenaphthene	7.860	153	82607	225.62	ppb	98
10) Fluorene	8.314	166	89412	229.07	ppb	99
13) Pentachlorophenol	8.993	266	2692	213.10	ppb	98
14) Phenanthrene	9.150	178	126509	221.29	ppb	100
15) Anthracene	9.199	178	61273	100.84	ppb	98
16) Fluoranthene	10.198	202	124174	221.51	ppb	98
18) Pyrene	10.395	202	125555	223.32	ppb	99
20) Benzo[a]anthracene	11.621	228	45150	110.27	ppb	99
21) Chrysene	11.663	228	47076	118.35	ppb	98
23) Benzo[b]fluoranthene	13.155	252	37225	113.86	ppb	99
24) Benzo[k]fluoranthene	13.195	252	39097	111.57	ppb	100
25) Benzo[a]pyrene	13.677	252	30784	101.66	ppb	99
26) Indeno[1,2,3-cd]pyrene	15.688	276	21031	92.52	ppb	96
27) Dibenz[a,h]anthracene	15.756	278	20897	88.33	ppb	96
28) Benzo[g,h,i]perylene	16.175	276	28362	110.84	ppb	97

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\st813\
Data File : T017843.D
Acq On : 10 Apr 2015 2:23 pm
Operator : mayrag
Sample : ic813-2
Misc : op55409,st813,250,,,1,1,water
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Apr 13 09:45:00 2015
Quant Method : C:\msdchem\1\METHODS\SIM_LV.M
Quant Title : PAH's by 8270 SIM
QLast Update : Mon Apr 13 09:42:56 2015
Response via : Initial Calibration



ACCUTEST LABORATORIES FA23258

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\st813\
Data File : T017844.D
Acq On : 10 Apr 2015 2:53 pm
Operator : mayrag
Sample : ic813-3
Misc : op55409,st813,250,,,1,1,water
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Apr 13 09:45:35 2015
Quant Method : C:\msdchem\1\METHODS\SIM_LV.M
Quant Title : PAH's by 8270 SIM
QLast Update : Mon Apr 13 09:42:56 2015
Response via : Initial Calibration

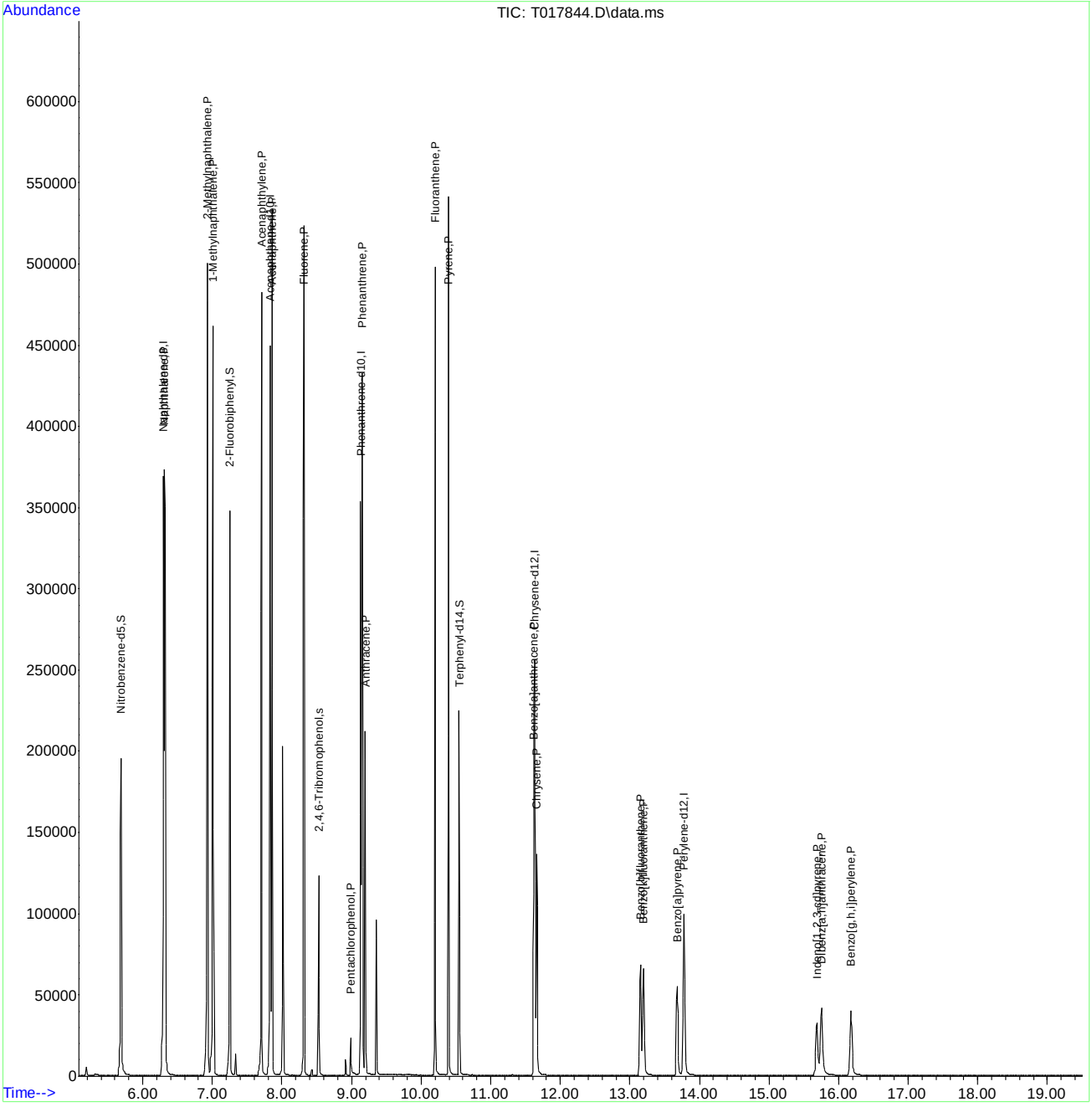
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Naphthalene-d8	6.297	136	258161	500.00	ppb	0.00
6) Acenaphthene-d10	7.831	164	135051	500.00	ppb	0.00
11) Phenanthrene-d10	9.130	188	218556	500.00	ppb	0.00
17) Chrysene-d12	11.633	240	162121	500.00	ppb	0.00
22) Perylene-d12	13.780	264	117539	500.00	ppb	0.00
System Monitoring Compounds						
2) Nitrobenzene-d5	5.683	82	99186	415.95	ppb	0.00
Spiked Amount 2000.000	Range 38 - 126		Recovery = 20.80%#			
7) 2-Fluorobiphenyl	7.252	172	190145	432.01	ppb	0.00
Spiked Amount 2000.000	Range 41 - 109		Recovery = 21.60%#			
12) 2,4,6-Tribromophenol	8.530	330	35763	631.98	ppb	0.00
Spiked Amount 4000.000	Range 33 - 118		Recovery = 15.80%#			
19) Terphenyl-d14	10.552	244	141050	451.97	ppb	0.02
Spiked Amount 2000.000	Range 46 - 135		Recovery = 22.60%#			
Target Compounds						Qvalue
3) Naphthalene	6.314	128	279736	437.87	ppb	99
4) 2-Methylnaphthalene	6.924	142	183974	471.44	ppb	99
5) 1-Methylnaphthalene	7.008	142	166630	452.13	ppb	98
8) Acenaphthylene	7.704	152	262426	420.65	ppb	98
9) Acenaphthene	7.860	153	167374	439.12	ppb	99
10) Fluorene	8.314	166	182489	449.10	ppb	98
13) Pentachlorophenol	8.988	266	8115	638.26	ppb	93
14) Phenanthrene	9.150	178	255677	444.36	ppb	99
15) Anthracene	9.199	178	126184	206.34	ppb	98
16) Fluoranthene	10.198	202	253938	450.09	ppb	98
18) Pyrene	10.395	202	269358	454.81	ppb	99
20) Benzo[a]anthracene	11.621	228	94945	220.13	ppb	99
21) Chrysene	11.663	228	97329	232.29	ppb	99
23) Benzo[b]fluoranthene	13.153	252	75208	223.72	ppb	99
24) Benzo[k]fluoranthene	13.198	252	79561	220.79	ppb	99
25) Benzo[a]pyrene	13.679	252	65337	209.83	ppb	99
26) Indeno[1,2,3-cd]pyrene	15.688	276	44438	190.10	ppb	97
27) Dibenz[a,h]anthracene	15.756	278	45546	187.23	ppb	97
28) Benzo[g,h,i]perylene	16.175	276	56734	215.62	ppb	97

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\st813\
Data File : T017844.D
Acq On : 10 Apr 2015 2:53 pm
Operator : mayrag
Sample : ic813-3
Misc : op55409,st813,250,,,1,1,water
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Apr 13 09:45:35 2015
Quant Method : C:\msdchem\1\METHODS\SIM_LV.M
Quant Title : PAH's by 8270 SIM
QLast Update : Mon Apr 13 09:42:56 2015
Response via : Initial Calibration



SIM_LV.M Mon Apr 13 09:45:54 2015 Page: 2

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\st813\
Data File : T017845.D
Acq On : 10 Apr 2015 3:24 pm
Operator : mayrag
Sample : icc813-4
Misc : op55409,st813,250,,,1,1,water
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Apr 13 09:42:34 2015
Quant Method : C:\msdchem\1\METHODS\SIM_LV.M
Quant Title : PAH's by 8270 SIM
QLast Update : Mon Apr 13 09:42:29 2015
Response via : Initial Calibration

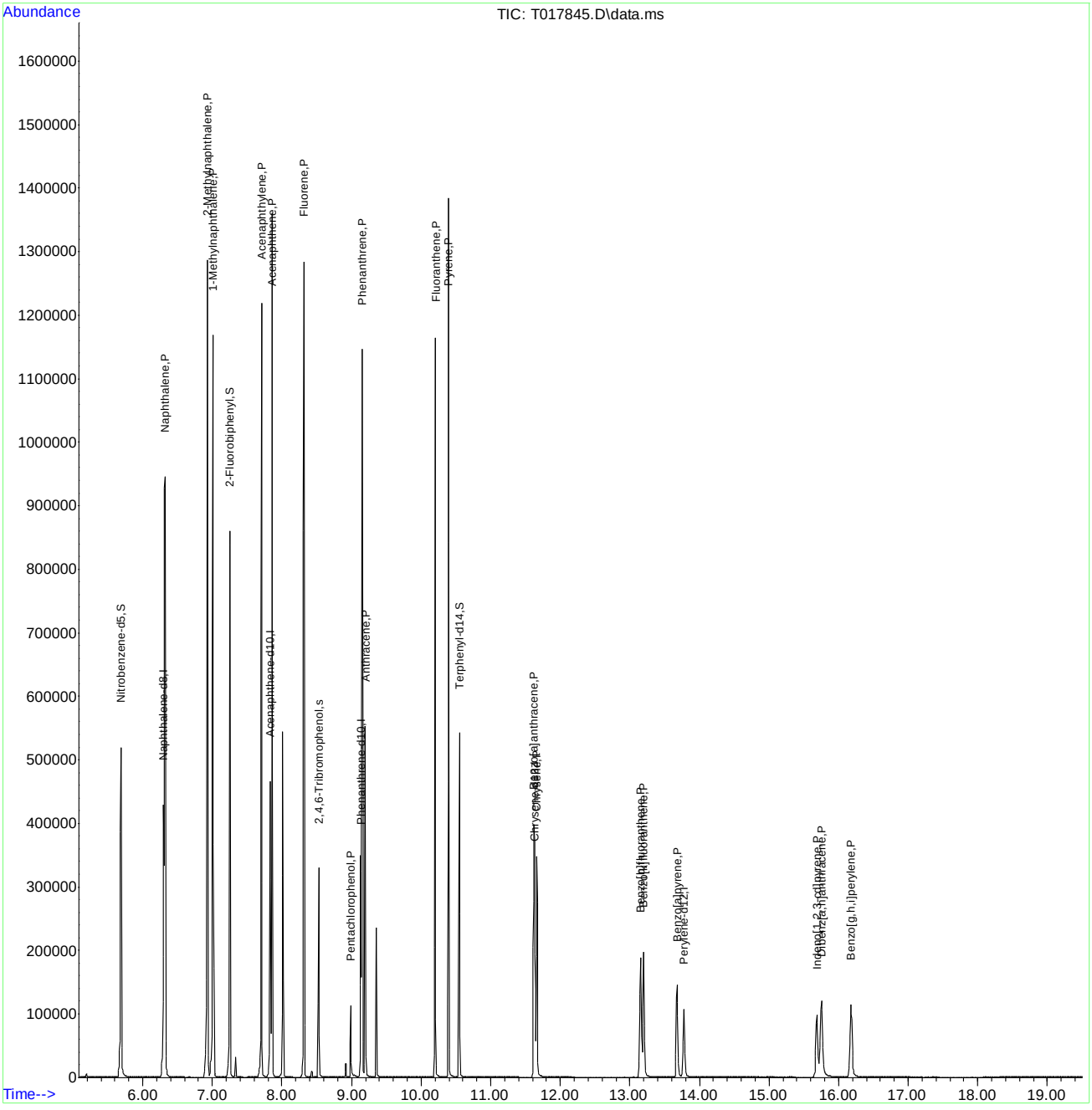
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) Naphthalene-d8	6.300	136	258703	500.00 ppb	0.00
6) Acenaphthene-d10	7.831	164	132523	500.00 ppb	0.00
11) Phenanthrene-d10	9.135	188	222932	500.00 ppb	0.00
17) Chrysene-d12	11.633	240	168542	500.00 ppb	0.00
22) Perylene-d12	13.780	264	120620	500.00 ppb	0.00
System Monitoring Compounds					
2) Nitrobenzene-d5	5.683	82	252749	1057.71 ppb	0.00
Spiked Amount 2000.000	Range 38 - 126		Recovery = 52.89%		
7) 2-Fluorobiphenyl	7.252	172	472661	1094.36 ppb	0.00
Spiked Amount 2000.000	Range 41 - 109		Recovery = 54.72%		
12) 2,4,6-Tribromophenol	8.530	330	98427	1705.19 ppb	0.00
Spiked Amount 4000.000	Range 33 - 118		Recovery = 42.63%		
19) Terphenyl-d14	10.552	244	350067	1078.99 ppb	0.02
Spiked Amount 2000.000	Range 46 - 135		Recovery = 53.95%		
Target Compounds					Qvalue
3) Naphthalene	6.317	128	697382	1089.32 ppb	99
4) 2-Methylnaphthalene	6.924	142	463110	1184.24 ppb	99
5) 1-Methylnaphthalene	7.008	142	414353	1121.93 ppb	97
8) Acenaphthylene	7.704	152	672149	1097.95 ppb	98
9) Acenaphthene	7.860	153	415056	1109.71 ppb	98
10) Fluorene	8.314	166	458215	1149.17 ppb	99
13) Pentachlorophenol	8.988	266	33940	2617.04 ppb	96
14) Phenanthrene	9.155	178	650900	1109.05 ppb	98
15) Anthracene	9.199	178	320970	514.55 ppb	98
16) Fluoranthene	10.202	202	641463	1114.64 ppb	97
18) Pyrene	10.395	202	672919	1092.94 ppb	98
20) Benzo[a]anthracene	11.621	228	251357	560.57 ppb	99
21) Chrysene	11.663	228	249757	573.37 ppb	99
23) Benzo[b]fluoranthene	13.155	252	202370	586.60 ppb	99
24) Benzo[k]fluoranthene	13.198	252	210667	569.70 ppb	99
25) Benzo[a]pyrene	13.679	252	175958	550.66 ppb	100
26) Indeno[1,2,3-cd]pyrene	15.688	276	132530	552.47 ppb	96
27) Dibenz[a,h]anthracene	15.756	278	137695	551.57 ppb	96
28) Benzo[g,h,i]perylene	16.175	276	161800	599.23 ppb	95

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\st813\
Data File : T017845.D
Acq On : 10 Apr 2015 3:24 pm
Operator : mayrag
Sample : icc813-4
Misc : op55409,st813,250,,,1,1,water
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Apr 13 09:42:34 2015
Quant Method : C:\msdchem\1\METHODS\SIM_LV.M
Quant Title : PAH's by 8270 SIM
QLast Update : Mon Apr 13 09:42:29 2015
Response via : Initial Calibration



Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\DATA\st813\
Data File : T017845.D
Acq On    : 10 Apr 2015   3:24 pm
Operator  : mayrag
Sample    : icc813-4
Misc      : op55409,st813,250,,,1,1,water
ALS Vial  : 5   Sample Multiplier: 1

Quant Time: Apr 13 09:42:34 2015
Quant Method : C:\msdchem\1\METHODS\SIM_LV.M
Quant Title  : PAH's by 8270 SIM
QLast Update : Mon Apr 13 09:42:29 2015
Response via : Initial Calibration
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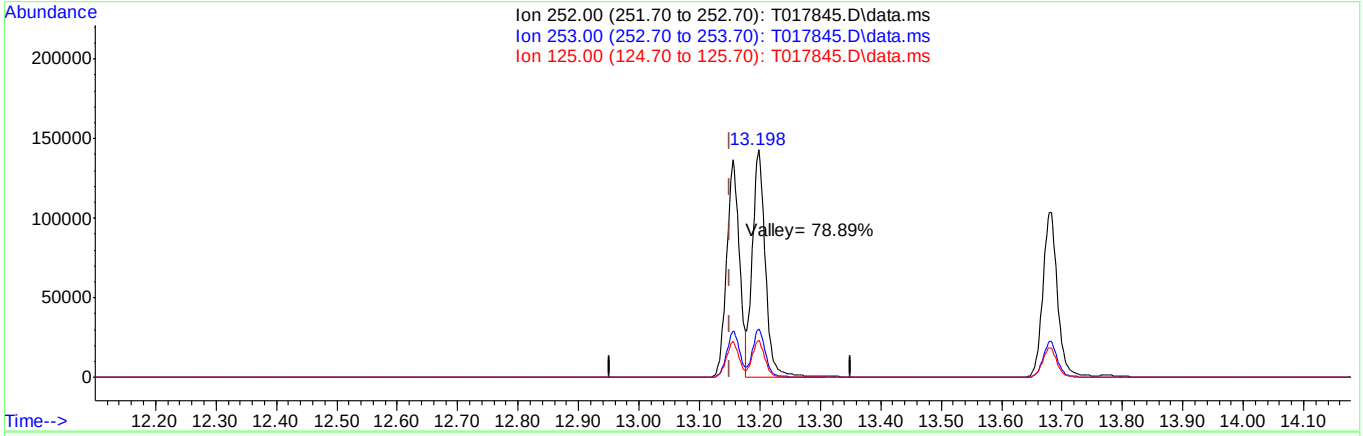
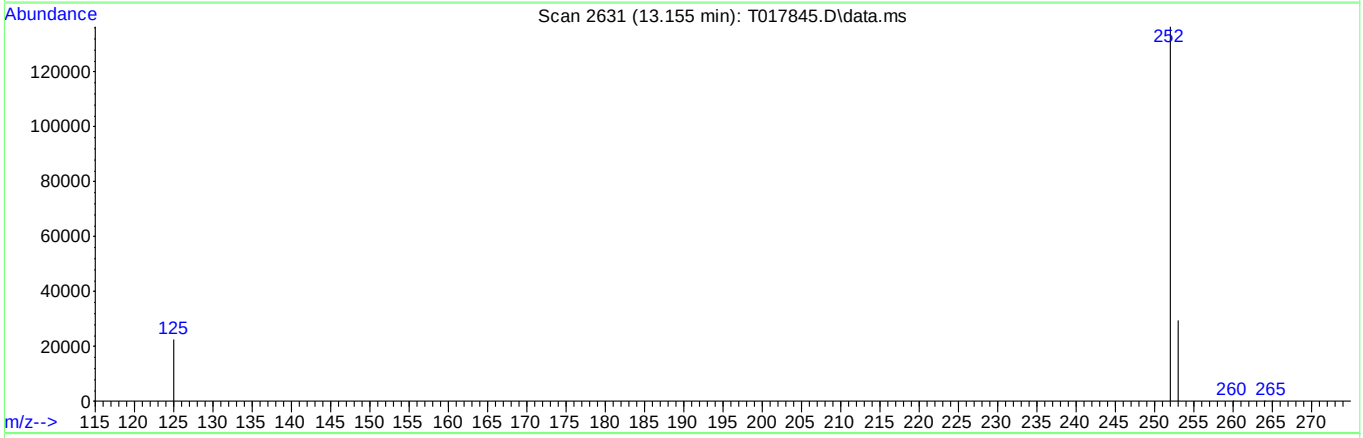




TIC: T017845.D\data.ms

(23) Benzo[b]fluoranthene (P)

13.155min (+0.003) 586.60ppb

response 202370

Ion	Exp%	Act%
252.00	100	100
253.00	21.90	21.48
125.00	16.60	16.55
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\st813\
Data File : T017846.D
Acq On : 10 Apr 2015 4:02 pm
Operator : mayrag
Sample : ic813-5
Misc : op55409,st813,250,,,1,1,water
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Apr 13 09:46:15 2015
Quant Method : C:\msdchem\1\METHODS\SIM_LV.M
Quant Title : PAH's by 8270 SIM
QLast Update : Mon Apr 13 09:42:56 2015
Response via : Initial Calibration

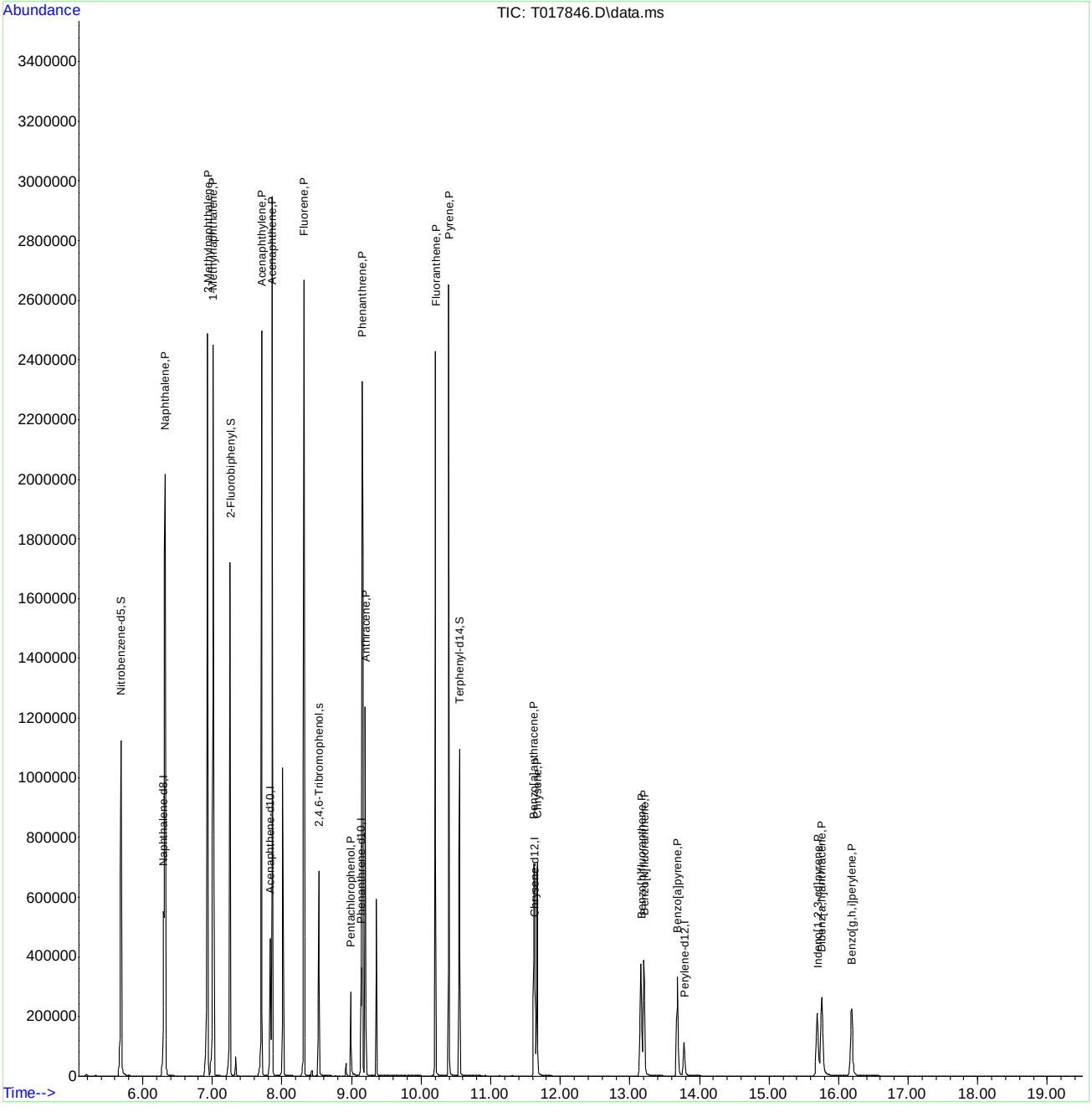
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) Naphthalene-d8	6.300	136	257736	500.00 ppb	0.00
6) Acenaphthene-d10	7.831	164	134273	500.00 ppb	0.00
11) Phenanthrene-d10	9.135	188	218112	500.00 ppb	0.00
17) Chrysene-d12	11.636	240	161896	500.00 ppb	0.00
22) Perylene-d12	13.782	264	127931	500.00 ppb	0.00
System Monitoring Compounds					
2) Nitrobenzene-d5	5.686	82	529421	2223.85 ppb	0.00
Spiked Amount 2000.000	Range 38 - 126		Recovery = 111.19%		
7) 2-Fluorobiphenyl	7.254	172	980311	2240.16 ppb	0.00
Spiked Amount 2000.000	Range 41 - 109		Recovery = 112.01%#		
12) 2,4,6-Tribromophenol	8.532	330	213636	3782.91 ppb	0.00
Spiked Amount 4000.000	Range 33 - 118		Recovery = 94.57%		
19) Terphenyl-d14	10.552	244	701794	2251.89 ppb	0.02
Spiked Amount 2000.000	Range 46 - 135		Recovery = 112.59%		
Target Compounds					Qvalue
3) Naphthalene	6.317	128	1451605	2275.94 ppb	100
4) 2-Methylnaphthalene	6.926	142	958591	2460.45 ppb	98
5) 1-Methylnaphthalene	7.010	142	860454	2338.57 ppb	98
8) Acenaphthylene	7.708	152	1414246	2280.06 ppb	100
9) Acenaphthene	7.860	153	864520	2281.29 ppb	94
10) Fluorene	8.316	166	944214	2337.15 ppb	100
13) Pentachlorophenol	8.993	266	88271	6956.80 ppb	100
14) Phenanthrene	9.155	178	1293889	2253.33 ppb	98
15) Anthracene	9.199	178	665714	1090.80 ppb	99
16) Fluoranthene	10.202	202	1326475	2355.89 ppb	96
18) Pyrene	10.399	202	1364640	2307.41 ppb	97
20) Benzo[a]anthracene	11.623	228	510237	1184.64 ppb	100
21) Chrysene	11.668	228	497640	1189.34 ppb	100
23) Benzo[b]fluoranthene	13.160	252	417678	1141.52 ppb	99
24) Benzo[k]fluoranthene	13.203	252	440123	1122.19 ppb	99
25) Benzo[a]pyrene	13.687	252	396983	1171.37 ppb	99
26) Indeno[1,2,3-cd]pyrene	15.696	276	279664	1099.20 ppb	96
27) Dibenz[a,h]anthracene	15.761	278	287136	1084.46 ppb	96
28) Benzo[g,h,i]perylene	16.188	276	319061	1114.13 ppb	96

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\st813\
Data File : T017846.D
Acq On : 10 Apr 2015 4:02 pm
Operator : mayrag
Sample : ic813-5
Misc : op55409,st813,250,,,1,1,water
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Apr 13 09:46:15 2015
Quant Method : C:\msdchem\1\METHODS\SIM_LV.M
Quant Title : PAH's by 8270 SIM
QLast Update : Mon Apr 13 09:42:56 2015
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\st813\
Data File : T017847.D
Acq On : 10 Apr 2015 4:32 pm
Operator : mayrag
Sample : ic813-6
Misc : op55409,st813,250,,,1,1,water
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Apr 13 09:46:53 2015
Quant Method : C:\msdchem\1\METHODS\SIM_LV.M
Quant Title : PAH's by 8270 SIM
QLast Update : Mon Apr 13 09:42:56 2015
Response via : Initial Calibration

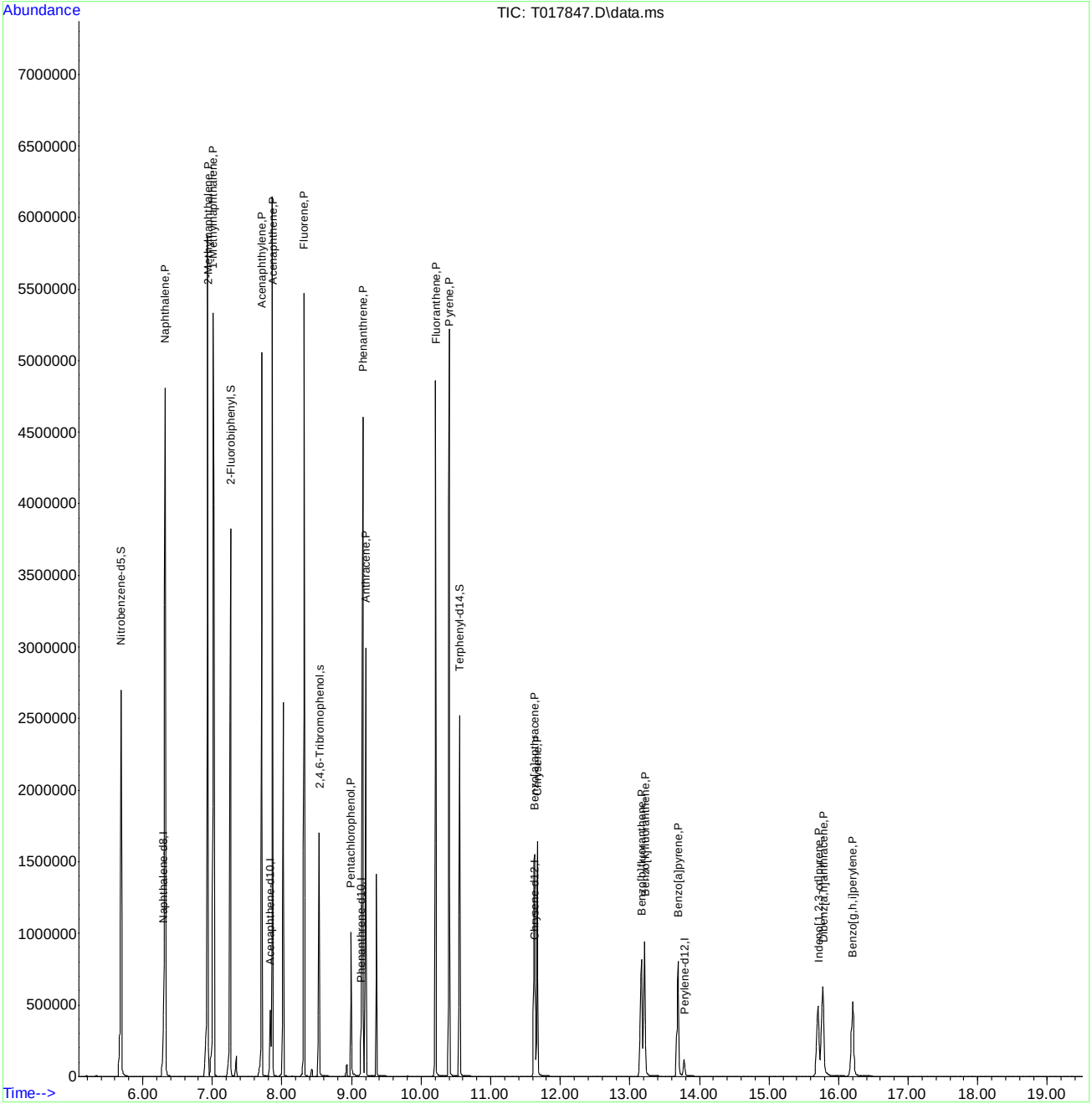
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) Naphthalene-d8	6.300	136	253756	500.00 ppb	0.00
6) Acenaphthene-d10	7.831	164	132375	500.00 ppb	0.00
11) Phenanthrene-d10	9.135	188	220026	500.00 ppb	0.00
17) Chrysene-d12	11.638	240	157254	500.00 ppb	0.00
22) Perylene-d12	13.782	264	127068	500.00 ppb	0.00
System Monitoring Compounds					
2) Nitrobenzene-d5	5.689	82	1291283	5509.14 ppb	0.00
Spiked Amount 2000.000	Range 38 - 126		Recovery = 275.46%#		
7) 2-Fluorobiphenyl	7.259	172	2293533	5316.21 ppb	0.00
Spiked Amount 2000.000	Range 41 - 109		Recovery = 265.81%#		
12) 2,4,6-Tribromophenol	8.537	330	591858	10389.01 ppb	0.00
Spiked Amount 4000.000	Range 33 - 118		Recovery = 259.73%#		
19) Terphenyl-d14	10.556	244	1710276	5649.86 ppb	0.03
Spiked Amount 2000.000	Range 46 - 135		Recovery = 282.49%#		
Target Compounds					Qvalue
3) Naphthalene	6.320	128	3533896	5627.63 ppb	99
4) 2-Methylnaphthalene	6.928	142	2276049	5933.64 ppb	98
5) 1-Methylnaphthalene	7.012	142	2047875	5653.07 ppb	98
8) Acenaphthylene	7.712	152	3334966	5453.76 ppb	99
9) Acenaphthene	7.864	153	1969707	5272.18 ppb	96
10) Fluorene	8.322	166	2213217	5556.78 ppb	97
13) Pentachlorophenol	8.993	266	325348	25418.24 ppb	96
14) Phenanthrene	9.160	178	3077162	5312.32 ppb	98
15) Anthracene	9.204	178	1644045	2670.41 ppb	98
16) Fluoranthene	10.210	202	3181523	5601.40 ppb	96
18) Pyrene	10.408	202	3270881	5693.84 ppb	95
20) Benzo[a]anthracene	11.628	228	1252063	2992.78 ppb	100
21) Chrysene	11.673	228	1227877	3021.21 ppb	100
23) Benzo[b]fluoranthene	13.168	252	1074556	2956.71 ppb	99
24) Benzo[k]fluoranthene	13.216	252	1084239	2783.28 ppb	98
25) Benzo[a]pyrene	13.695	252	1016094	3018.52 ppb	99
26) Indeno[1,2,3-cd]pyrene	15.711	276	735990	2912.41 ppb	94
27) Dibenz[a,h]anthracene	15.779	278	733776	2790.16 ppb	95
28) Benzo[g,h,i]perylene	16.203	276	831491	2923.20 ppb	95

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\st813\
Data File : T017847.D
Acq On : 10 Apr 2015 4:32 pm
Operator : mayrag
Sample : ic813-6
Misc : op55409,st813,250,,,1,1,water
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Apr 13 09:46:53 2015
Quant Method : C:\msdchem\1\METHODS\SIM_LV.M
Quant Title : PAH's by 8270 SIM
QLast Update : Mon Apr 13 09:42:56 2015
Response via : Initial Calibration



ACCUTEST LABORATORIES FA23258

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\st813\
Data File : T017848.D
Acq On : 10 Apr 2015 5:03 pm
Operator : mayrag
Sample : ic813-7
Misc : op55409,st813,250,,,1,1,water
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Apr 13 09:47:47 2015
Quant Method : C:\msdchem\1\METHODS\SIM_LV.M
Quant Title : PAH's by 8270 SIM
QLast Update : Mon Apr 13 09:42:56 2015
Response via : Initial Calibration

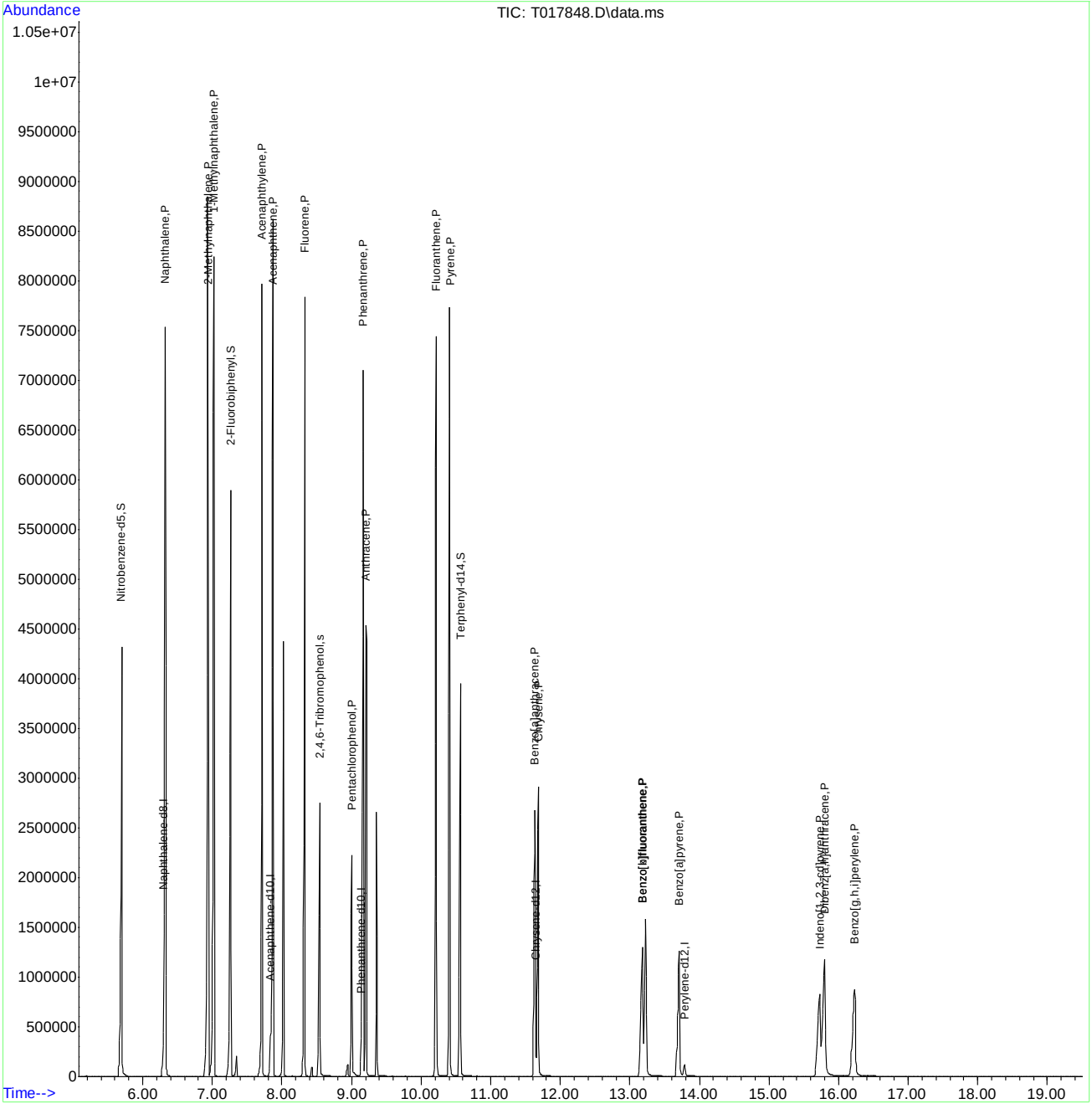
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) Naphthalene-d8	6.303	136	255287	500.00 ppb	0.00
6) Acenaphthene-d10	7.836	164	130102	500.00 ppb	0.00
11) Phenanthrene-d10	9.140	188	223788	500.00 ppb	0.00
17) Chrysene-d12	11.646	240	162470	500.00 ppb	0.01
22) Perylene-d12	13.785	264	128268	500.00 ppb	0.00
System Monitoring Compounds					
2) Nitrobenzene-d5	5.695	82	2493669	10575.21 ppb	0.00
Spiked Amount 2000.000	Range 38 - 126		Recovery = 528.76%#		
7) 2-Fluorobiphenyl	7.263	172	4070142	9599.07 ppb	0.00
Spiked Amount 2000.000	Range 41 - 109		Recovery = 479.95%#		
12) 2,4,6-Tribromophenol	8.542	330	1134856	19585.50 ppb	0.00
Spiked Amount 4000.000	Range 33 - 118		Recovery = 489.64%#		
19) Terphenyl-d14	10.564	244	3244197	10373.06 ppb	0.04
Spiked Amount 2000.000	Range 46 - 135		Recovery = 518.65%#		
Target Compounds					Qvalue
3) Naphthalene	6.323	128	6465026	10233.63 ppb	99
4) 2-Methylnaphthalene	6.935	142	4082331	10578.78 ppb	98
5) 1-Methylnaphthalene	7.019	142	3648707	10011.69 ppb	98
8) Acenaphthylene	7.716	152	5823662	9689.97 ppb	98
9) Acenaphthene	7.873	153	3420706	9315.93 ppb	98
10) Fluorene	8.327	166	3846821	9827.06 ppb	98
13) Pentachlorophenol	9.003	266	751118	57695.60 ppb	98
14) Phenanthrene	9.170	178	5527626	9382.31 ppb	97
15) Anthracene	9.209	178	3061809	4889.67 ppb	98
16) Fluoranthene	10.215	202	5683381	9837.98 ppb	98
18) Pyrene	10.416	202	5950735	10026.28 ppb	94
20) Benzo[a]anthracene	11.633	228	2431372	5625.08 ppb	100
21) Chrysene	11.683	228	2320071	5525.30 ppb	99
23) Benzo[b]fluoranthene	13.178	252	1964152	5353.93 ppb	99
24) Benzo[k]fluoranthene	13.178	252	1964152	4994.88 ppb	98
25) Benzo[a]pyrene	13.712	252	1884615	5546.27 ppb	98
26) Indeno[1,2,3-cd]pyrene	15.729	276	1476867	5789.48 ppb	93
27) Dibenz[a,h]anthracene	15.799	278	1542372	5809.95 ppb	96
28) Benzo[g,h,i]perylene	16.233	276	1602770	5582.00 ppb	95

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\st813\
Data File : T017848.D
Acq On : 10 Apr 2015 5:03 pm
Operator : mayrag
Sample : ic813-7
Misc : op55409,st813,250,,,1,1,water
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Apr 13 09:47:47 2015
Quant Method : C:\msdchem\1\METHODS\SIM_LV.M
Quant Title : PAH's by 8270 SIM
QLast Update : Mon Apr 13 09:42:56 2015
Response via : Initial Calibration



SIM_LV.M Mon Apr 13 09:48:13 2015 Page: 2

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\st813\
Data File : T017849.D
Acq On : 10 Apr 2015 5:34 pm
Operator : mayrag
Sample : icv813-4
Misc : op55409,st813,250,,,1,1,water
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Apr 13 09:48:55 2015
Quant Method : C:\msdchem\1\METHODS\SIM_LV.M
Quant Title : PAH's by 8270 SIM
QLast Update : Mon Apr 13 09:48:51 2015
Response via : Initial Calibration

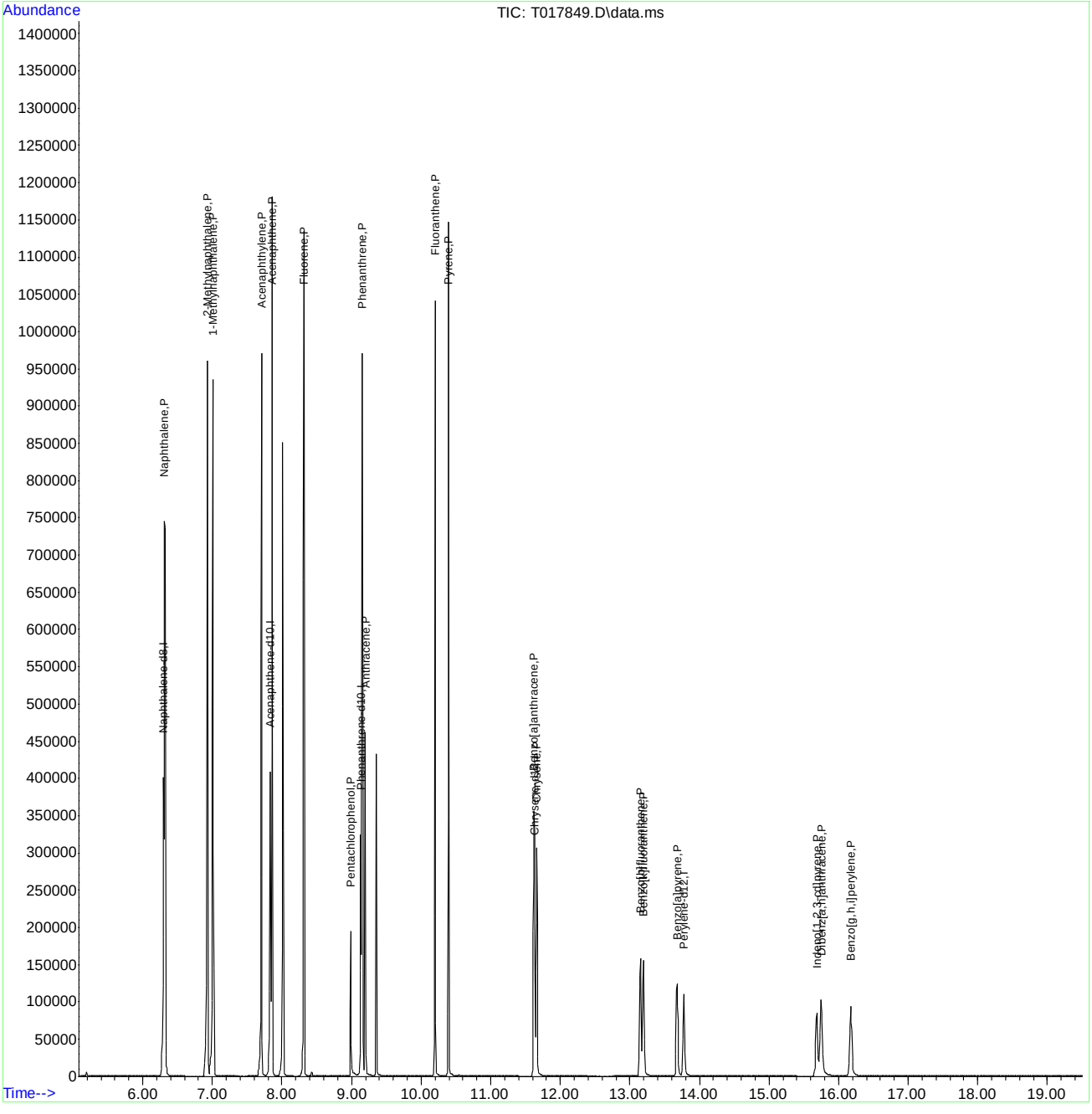
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Naphthalene-d8	6.300	136	242818	500.00	ppb	0.00
6) Acenaphthene-d10	7.831	164	128743	500.00	ppb	0.00
11) Phenanthrene-d10	9.135	188	213308	500.00	ppb	0.00
17) Chrysene-d12	11.633	240	160658	500.00	ppb	0.00
22) Perylene-d12	13.780	264	122893	500.00	ppb	0.00
System Monitoring Compounds						
2) Nitrobenzene-d5	0.000	82	0	0.00	ppb	
Spiked Amount 2000.000	Range 38 - 126		Recovery = 0.00%#			
7) 2-Fluorobiphenyl	0.000	172	0	0.00	ppb	
Spiked Amount 2000.000	Range 41 - 109		Recovery = 0.00%#			
12) 2,4,6-Tribromophenol	0.000	330	0	0.00	ppb	
Spiked Amount 4000.000	Range 33 - 118		Recovery = 0.00%#			
19) Terphenyl-d14	0.000	244	0	0.00	ppb	
Spiked Amount 2000.000	Range 46 - 135		Recovery = 0.00%#			
Target Compounds						Qvalue
3) Naphthalene	6.314	128	589009	901.21	ppb	99
4) 2-Methylnaphthalene	6.924	142	368656	868.16	ppb	98
5) 1-Methylnaphthalene	7.008	142	359778	938.58	ppb	98
8) Acenaphthylene	7.704	152	571257	918.28	ppb	98
9) Acenaphthene	7.860	153	365553	937.86	ppb	97
10) Fluorene	8.314	166	401516	938.42	ppb	99
13) Pentachlorophenol	8.988	266	58723	3739.77	ppb	95
14) Phenanthrene	9.155	178	559159	929.76	ppb	98
15) Anthracene	9.199	178	264166	434.58	ppb	98
16) Fluoranthene	10.198	202	555980	929.22	ppb	97
18) Pyrene	10.395	202	568173	886.07	ppb	97
20) Benzo[a]anthracene	11.621	228	212845	439.22	ppb	100
21) Chrysene	11.663	228	222742	463.09	ppb	100
23) Benzo[b]fluoranthene	13.153	252	169262	432.54	ppb	99
24) Benzo[k]fluoranthene	13.195	252	179069	443.39	ppb	99
25) Benzo[a]pyrene	13.677	252	155411	439.89	ppb	100
26) Indeno[1,2,3-cd]pyrene	15.686	276	112353	439.72	ppb	96
27) Dibenz[a,h]anthracene	15.751	278	113272	436.45	ppb	97
28) Benzo[g,h,i]perylene	16.172	276	132696	432.90	ppb	97

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\st813\
Data File : T017849.D
Acq On : 10 Apr 2015 5:34 pm
Operator : mayrag
Sample : icv813-4
Misc : op55409,st813,250,,,1,1,water
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Apr 13 09:48:55 2015
Quant Method : C:\msdchem\1\METHODS\SIM_LV.M
Quant Title : PAH's by 8270 SIM
QLast Update : Mon Apr 13 09:48:51 2015
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\st813\
Data File : T017895.D
Acq On : 11 Apr 2015 4:11 pm
Operator : mayrag
Sample : ecc813-5
Misc : op55409,st813,250,,,1,1,water
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Apr 13 09:51:45 2015
Quant Method : C:\msdchem\1\METHODS\SIM_LV.M
Quant Title : PAH's by 8270 SIM
QLast Update : Mon Apr 13 09:48:51 2015
Response via : Initial Calibration

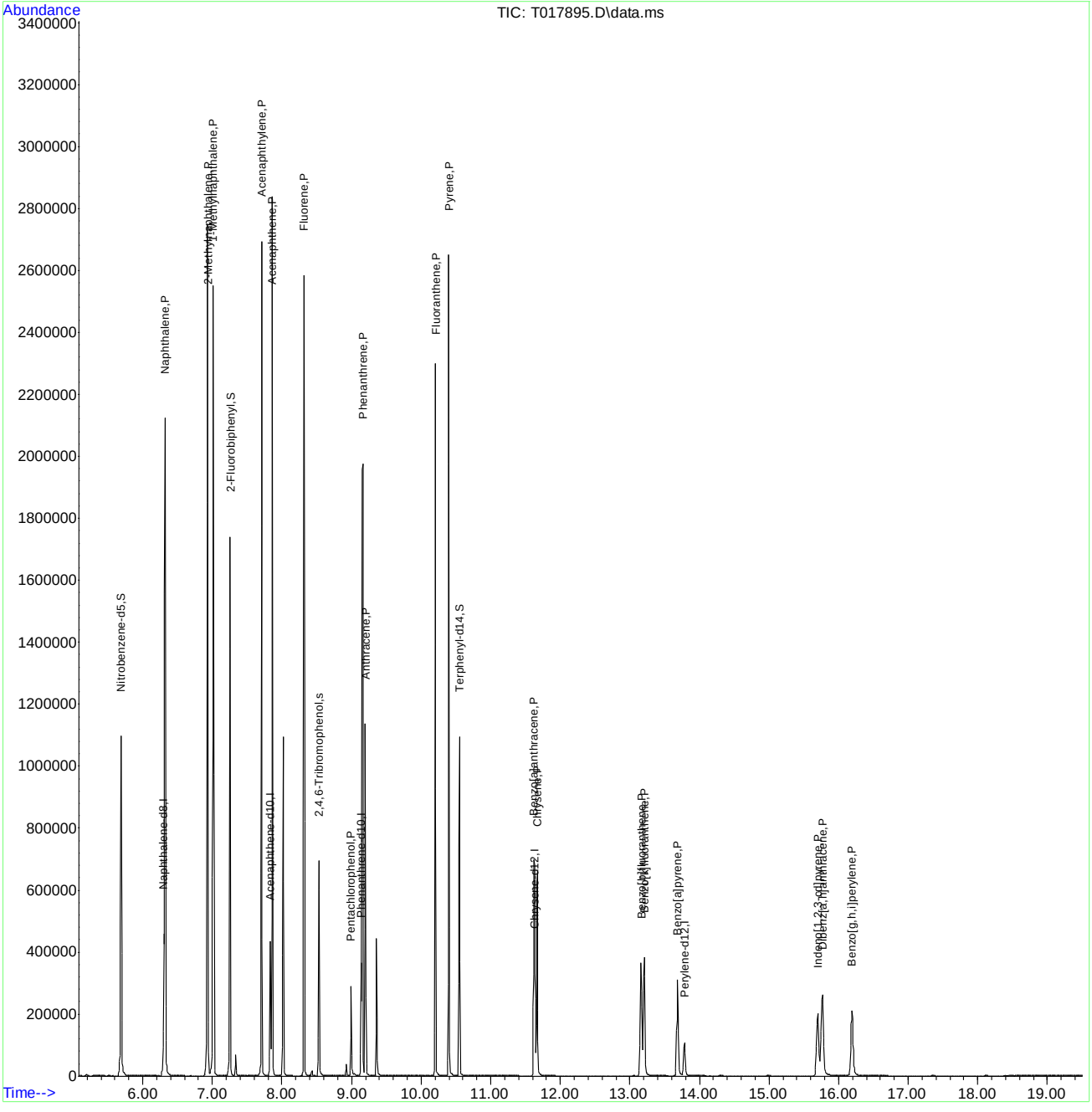
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) Naphthalene-d8	6.300	136	260841	500.00 ppb	0.00
6) Acenaphthene-d10	7.835	164	140891	500.00 ppb	0.00
11) Phenanthrene-d10	9.135	188	225114	500.00 ppb	0.00
17) Chrysene-d12	11.638	240	162138	500.00 ppb	0.00
22) Perylene-d12	13.785	264	125317	500.00 ppb	0.00
System Monitoring Compounds					
2) Nitrobenzene-d5	5.689	82	526619	2076.93 ppb	0.00
Spiked Amount 2000.000	Range 38 - 126		Recovery = 103.85%		
7) 2-Fluorobiphenyl	7.257	172	967704	1979.59 ppb	0.00
Spiked Amount 2000.000	Range 41 - 109		Recovery = 98.98%		
12) 2,4,6-Tribromophenol	8.535	330	219167	3720.26 ppb	0.00
Spiked Amount 4000.000	Range 33 - 118		Recovery = 93.01%		
19) Terphenyl-d14	10.552	244	701742	2060.26 ppb	0.00
Spiked Amount 2000.000	Range 46 - 135		Recovery = 103.01%		
Target Compounds					Qvalue
3) Naphthalene	6.317	128	1451990	2068.10 ppb	99
4) 2-Methylnaphthalene	6.926	142	963338	2111.84 ppb	97
5) 1-Methylnaphthalene	7.010	142	867807	2107.49 ppb	97
8) Acenaphthylene	7.708	152	1444252	2121.43 ppb	98
9) Acenaphthene	7.860	153	860259	2016.76 ppb	93
10) Fluorene	8.319	166	951113	2031.26 ppb	98
13) Pentachlorophenol	8.993	266	88530	5342.34 ppb	95
14) Phenanthrene	9.160	178	1226409	1932.30 ppb	98
15) Anthracene	9.199	178	666357	1038.73 ppb	99
16) Fluoranthene	10.206	202	1312729	2078.93 ppb	97
18) Pyrene	10.399	202	1348003	2083.03 ppb	96
20) Benzo[a]anthracene	11.626	228	505006	1032.59 ppb	100
21) Chrysene	11.668	228	484753	998.62 ppb	100
23) Benzo[b]fluoranthene	13.163	252	415724	1041.82 ppb	99
24) Benzo[k]fluoranthene	13.208	252	431032	1046.63 ppb	99
25) Benzo[a]pyrene	13.687	252	383003	1063.13 ppb	99
26) Indeno[1,2,3-cd]pyrene	15.701	276	284771	1092.97 ppb	95
27) Dibenz[a,h]anthracene	15.771	278	296878	1121.78 ppb	96
28) Benzo[g,h,i]perylene	16.193	276	311560	996.74 ppb	96

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\st813\
Data File : T017895.D
Acq On : 11 Apr 2015 4:11 pm
Operator : mayrag
Sample : ecc813-5
Misc : op55409,st813,250,,,1,1,water
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Apr 13 09:51:45 2015
Quant Method : C:\msdchem\1\METHODS\SIM_LV.M
Quant Title : PAH's by 8270 SIM
QLast Update : Mon Apr 13 09:48:51 2015
Response via : Initial Calibration



Manual Integrations APPROVED (compounds with "m" flag)
Mike Eger
03/31/15 15:24

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\sx1826\
Data File : x039249.D
Acq On : 30 Mar 2015 3:05 pm
Operator : nareshj
Sample : ic1826-5
Misc : op55392,sx1826,1000,,,1,1,water
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Mar 31 09:18:58 2015
Quant Method : C:\msdchem\1\METHODS\8270d_0330.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Fri Mar 27 11:06:47 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	5.045	152	417411	40.00	ppm	0.00
22) Naphthalene-d8	6.142	136	1522698	40.00	ppm	0.00
41) Acenaphthene-d10	7.687	164	825312	40.00	ppm	0.00
67) Phenanthrene-d10	8.974	188	1282900	40.00	ppm	0.00
83) Chrysene-d12	11.623	240	1011153	40.00	ppm	0.00
92) Perylene-d12	13.961	264	685637	40.00	ppm	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	4.013	112	154507	10.52	ppm	0.00
Spiked Amount 100.000	Range 14 - 67		Recovery = 10.52%#			
9) Phenol-d5	4.800	99	166294	10.12	ppm	0.00
Spiked Amount 100.000	Range 10 - 50		Recovery = 10.12%			
23) Nitrobenzene-d5	5.536	82	86079	5.40	ppm	0.00
Spiked Amount 50.000	Range 42 - 108		Recovery = 10.80%#			
45) 2-Fluorobiphenyl	7.096	172	153641	5.48	ppm	0.00
Spiked Amount 50.000	Range 40 - 106		Recovery = 10.96%#			
72) 2,4,6-Tribromophenol	8.383	330	24619	8.26	ppm	0.00
Spiked Amount 100.000	Range 33 - 118		Recovery = 8.26%#			
86) Terphenyl-d14	10.415	244	118012	5.01	ppm	0.00
Spiked Amount 50.000	Range 39 - 121		Recovery = 10.02%#			
Target Compounds						Qvalue
2) 1,4-Dioxane	2.459	88	33203	4.92	ppm	88
3) N-nitrosodimethylamine	2.806	42	48987	5.94	ppm	98
4) Pyridine	2.803	79	87549	5.35	ppm	99
6) Benzaldehyde	4.684	106	68005	5.98	ppm	100
7) Aniline	4.806	93	117561	5.65	ppm #	48
8) bis(2-Chloroethyl)ether	4.857	93	74116	5.32	ppm	88
10) Phenol	4.809	94	106468	5.59	ppm	67
11) 2-Chlorophenol	4.900	128	81272	5.24	ppm	89
12) 1,3-Dichlorobenzene	5.014	146	88878	5.31	ppm	96
13) 1,4-Dichlorobenzene	5.056	146	88420	5.29	ppm	98
14) 1,2-Dichlorobenzene	5.218	146	83478	5.24	ppm	96
15) Benzyl alcohol	5.184	108	50660	5.04	ppm	92
16) 2-Methylphenol	5.306	108	72007	5.43	ppm	93
17) bis(2-chloroisopropyl)...	5.318	45	153834	6.70	ppm	79
18) Acetophenone	5.408	105	114511	5.61	ppm	98
19) N-Nitroso-di-n-propyla...	5.431	70	41060	5.66	ppm	81
20) 3&4-Methylphenol	5.431	108	76305	5.46	ppm	98
21) Hexachloroethane	5.480	117	35333	5.20	ppm	86
24) Nitrobenzene	5.553	77	84300	5.65	ppm	92
25) Isophorone	5.752	82	151987	5.61	ppm	99
26) 2-Nitrophenol	5.829	139	38727	4.78	ppm	93
27) 2,4-Dimethylphenol	5.874	107	78736	5.67	ppm	96
28) bis(2-Chloroethoxy)met...	5.954	93	86390	5.62	ppm	99
29) Benzoic Acid	5.946	105	44967m	4.45	ppm	
30) 2,4-Dichlorophenol	6.036	162	60952	5.23	ppm	96
31) 1,2,4-Trichlorobenzene	6.107	180	61922	5.14	ppm	97
32) Naphthalene	6.156	128	225417	5.84	ppm	94

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\sx1826\
Data File : x039249.D
Acq On : 30 Mar 2015 3:05 pm
Operator : nareshj
Sample : ic1826-5
Misc : op55392,sx1826,1000,,,1,1,water
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Mar 31 09:18:58 2015
Quant Method : C:\msdchem\1\METHODS\8270d_0330.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Fri Mar 27 11:06:47 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
33) 4-Chloroaniline	6.227	127	97365	5.56	ppm		97
34) 2,6-Dichlorophenol	6.036	162	60952	5.23	ppm		92
35) Hexachlorobutadiene	6.321	225	34016	5.04	ppm		98
36) Caprolactam	6.485	113	24405	5.26	ppm	#	67
37) 4-Chloro-3-methylphenol	6.656	107	65738	5.35	ppm		96
38) 2-Methylnaphthalene	6.755	142	155334	5.63	ppm		97
39) 1-Methylnaphthalene	6.852	142	134689	5.53	ppm		97
40) 1,2,4,5-Tetrachloroben...	6.940	216	59823	5.07	ppm		97
42) Hexachlorocyclopentadiene	6.963	237	32190	4.53	ppm		98
43) 2,4,6-Trichlorophenol	7.034	196	39064	5.03	ppm		95
44) 2,4,5-Trichlorophenol	7.068	196	41824	5.02	ppm		97
46) 1,1'-Biphenyl	7.173	154	182511	5.79	ppm		95
47) 2-Chloronaphthalene	7.179	162	136217	5.76	ppm		98
48) 2-Nitroaniline	7.298	65	45503	5.20	ppm		89
49) p-Dinitrobenzene	7.395	75	24980	4.70	ppm	#	86
50) Dimethylphthalate	7.488	163	146150	5.40	ppm		98
51) m-Dinitrobenzene	7.497	168	21623	4.69	ppm	#	55
52) 2,6-Dinitrotoluene	7.542	165	32178	5.06	ppm		90
53) o-Dinitrobenzene	7.599	50	30317	5.69	ppm		87
54) Acenaphthylene	7.548	152	215029	5.74	ppm		99
55) 3-Nitroaniline	7.298	138	44487	4.89	ppm	#	58
56) Acenaphthene	7.713	153	132229	5.49	ppm	#	1
57) 2,4-Dinitrophenol	7.747	184	7410	2.91	ppm		91
58) 4-Nitrophenol	7.824	109	15272	4.07	ppm	#	82
59) Dibenzofuran	7.849	168	186952	5.58	ppm		97
60) 2,4-Dinitrotoluene	7.883	165	42990	5.04	ppm		91
61) 2,3,5,6-Tetrachlorophenol	7.963	232	30588	4.73	ppm		90
62) 2,3,4,6-Tetrachlorophenol	8.000	232	31604	4.96	ppm		90
63) Diethylphthalate	8.108	149	148329	5.35	ppm		98
64) Fluorene	8.153	166	156230	5.66	ppm		96
65) 4-Chlorophenyl-phenyle...	8.156	204	66035	5.22	ppm		90
66) 4-Nitroaniline	8.199	138	29683	4.75	ppm		93
68) 4,6-Dinitro-2-methylph...	8.239	198	16564	4.02	ppm	#	31
69) Diphenylamine	8.264	169	125410	5.34	ppm		97
70) n-Nitrosodiphenylamine	8.264	169	125410	6.41	ppm		93
71) 1,2-Diphenylhydrazine	8.293	77	162241	5.73	ppm		94
73) 4-Bromophenyl-phenylether	8.582	248	33041	4.84	ppm		84
74) Hexachlorobenzene	8.710	284	30625	4.69	ppm		74
75) Simazine	8.727	201	20122	10.39	ppm		99
76) Atrazine	8.764	200	41330	5.17	ppm	#	71
77) Pentachlorophenol	8.869	266	16521	4.16	ppm		96
78) Phenanthrene	8.992	178	208527	5.62	ppm		100
79) Anthracene	9.031	178	203259	5.52	ppm		99
80) Carbazole	9.179	167	182484	5.49	ppm		99
81) Di-n-butylphthalate	9.543	149	243746	5.52	ppm		99
82) Fluoranthene	10.046	202	206883	5.44	ppm		95
84) Benzidine	10.171	184	78372	6.22	ppm		98
85) Pyrene	10.247	202	212772	5.74	ppm		92
87) Butylbenzylphthalate	10.978	149	97515	5.48	ppm		92
88) 3,3'-Dichlorobenzidine	11.597	252	33116	4.16	ppm		96

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\sx1826\
Data File : x039249.D
Acq On : 30 Mar 2015 3:05 pm
Operator : nareshj
Sample : ic1826-5
Misc : op55392,sx1826,1000,,,1,1,water
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Mar 31 09:18:58 2015
Quant Method : C:\msdchem\1\METHODS\8270d_0330.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Fri Mar 27 11:06:47 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
89) Benzo[a]anthracene	11.594	228	146537	5.12 ppm	99
90) Chrysene	11.651	228	142476	5.29 ppm	98
91) bis(2-Ethylhexyl)phtha...	11.779	149	126799	5.30 ppm	99
93) Di-n-octylphthalate	12.771	149	170651	4.77 ppm	95
94) Benzo[b]fluoranthene	13.276	252	103157	4.65 ppm	99
95) Benzo[k]fluoranthene	13.313	252	113003m	5.30 ppm	
96) Benzo[a]pyrene	13.839	252	85335	4.32 ppm	95
97) Indeno[1,2,3-cd]pyrene	16.007	276	46070	3.55 ppm	88
98) Dibenz[a,h]anthracene	16.084	278	38246	3.17 ppm	88
99) Benzo[g,h,i]perylene	16.459	276	61558	4.20 ppm	98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

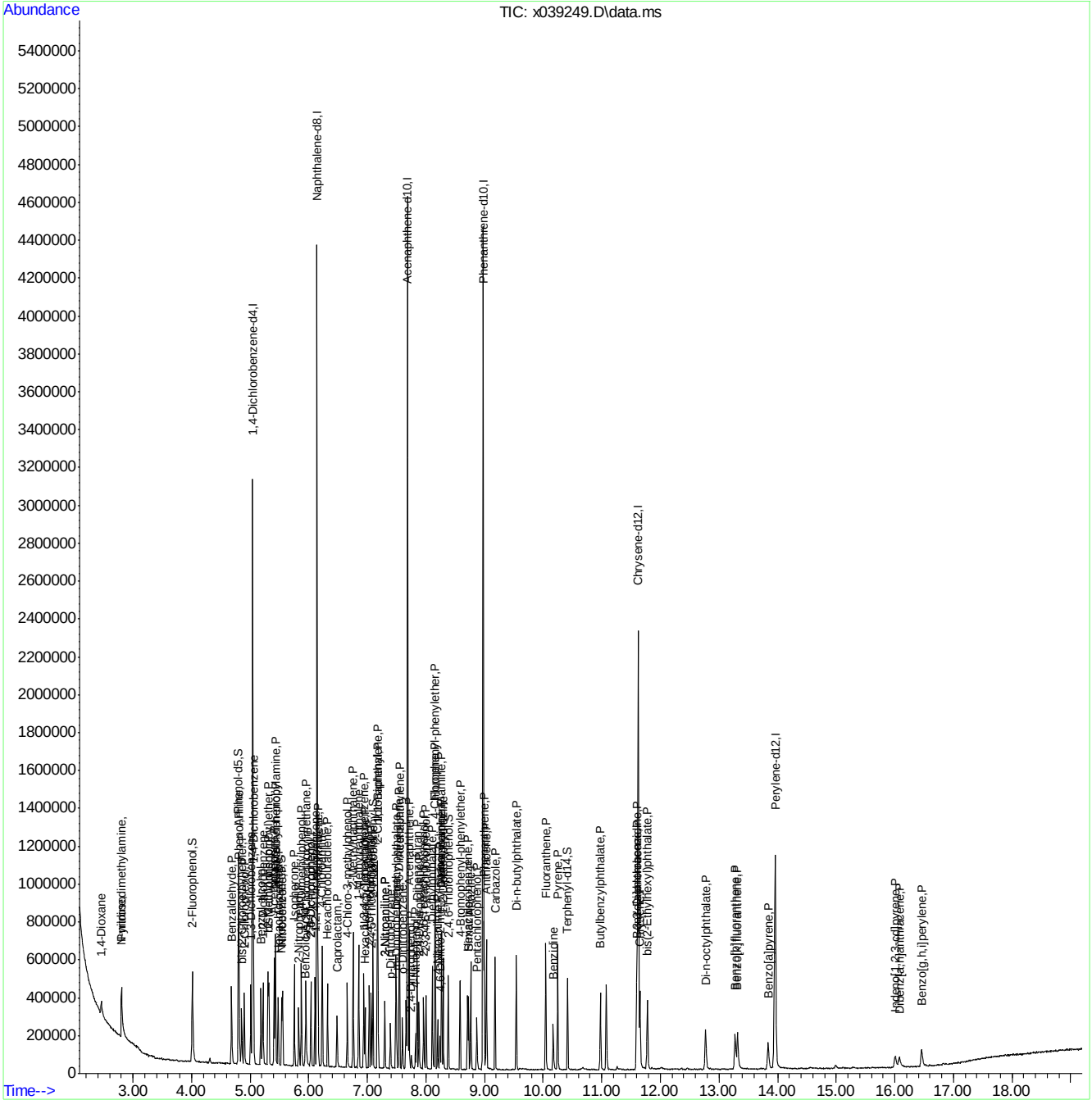
7.6.34

7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\sx1826\
Data File : x039249.D
Acq On : 30 Mar 2015 3:05 pm
Operator : nareshj
Sample : ic1826-5
Misc : op55392,sx1826,1000,,,1,1,water
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Mar 31 09:18:58 2015
Quant Method : C:\msdchem\1\METHODS\8270d_0330.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Fri Mar 27 11:06:47 2015
Response via : Initial Calibration



ACCUTEST LABORATORIES FA23258

Manual Integration Approval Summary

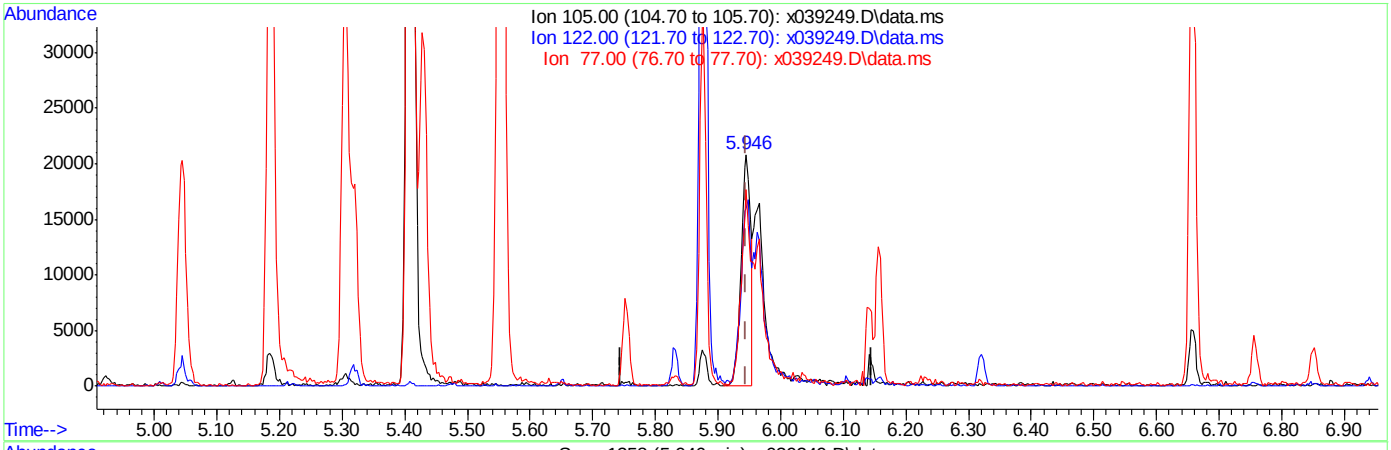
Sample Number:	SX1826-IC1826	**Method:**	SW846 8270D
Lab FileID:	X039249.D	**Analyst approved:**	03/31/15 11:22 Martha Valls
Injection Time:	03/30/15 15:05	**Supervisor approved:**	03/31/15 15:24 Mike Eger

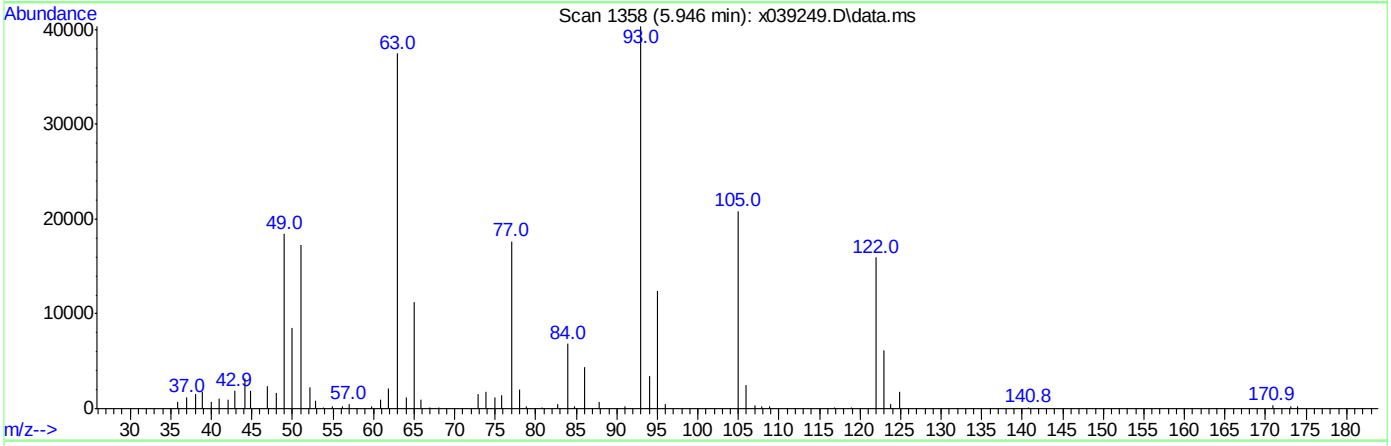
Parameter	CAS	Sig#	R.T. (min.)	Reason
Benzoic Acid	65-85-0		5.95	Split peak
Benzo(k)fluoranthene	207-08-9		13.31	Missed peak

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\sx1826\
Data File : x039249.D
Acq On : 30 Mar 2015 3:05 pm
Operator : nareshj
Sample : ic1826-5
Misc : op55392,sx1826,1000,,,1,1,water
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Mar 31 09:18:30 2015
Quant Method : C:\msdchem\1\METHODS\8270d_0330.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Fri Mar 27 11:06:47 2015
Response via : Initial Calibration





TIC: x039249.D\data.ms

(29) Benzoic Acid

5.946min (0.000) 2.20ppm

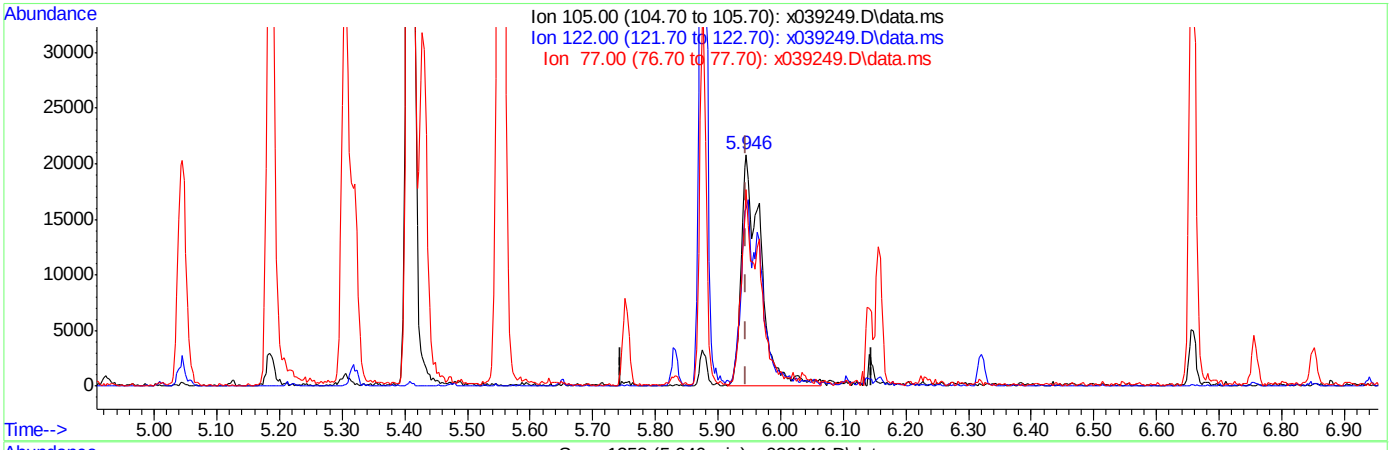
response 22205

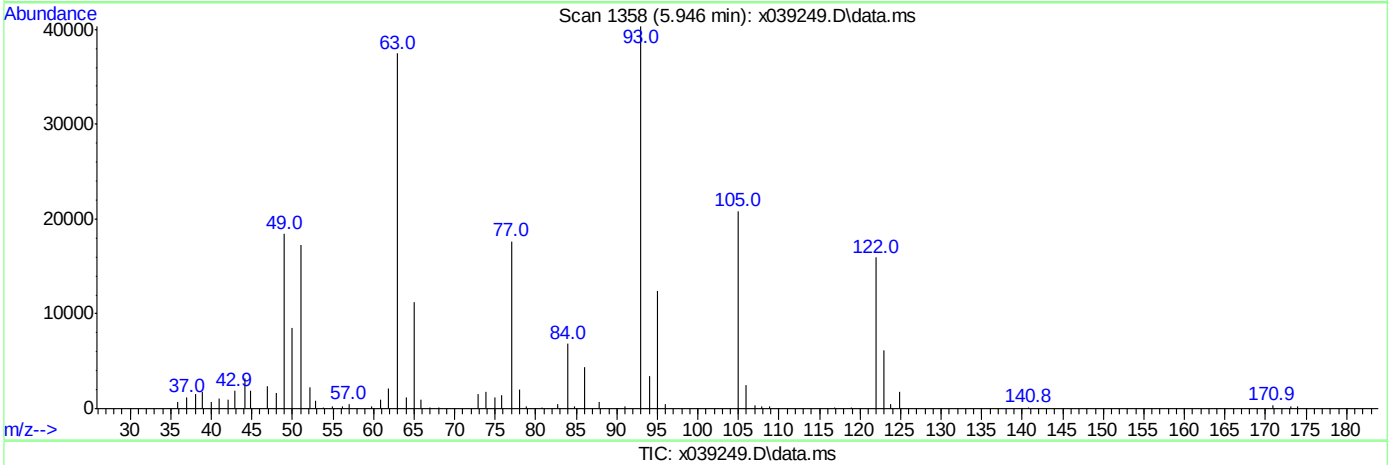
Ion	Exp%	Act%
105.00	100	100
122.00	71.80	73.21
77.00	80.10	83.68
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\sx1826\
Data File : x039249.D
Acq On : 30 Mar 2015 3:05 pm
Operator : nareshj
Sample : ic1826-5
Misc : op55392,sx1826,1000,,,1,1,water
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Mar 31 09:18:30 2015
Quant Method : C:\msdchem\1\METHODS\8270d_0330.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Fri Mar 27 11:06:47 2015
Response via : Initial Calibration





TIC: x039249.D\data.ms

(29) Benzoic Acid

5.946min (0.000) 4.45ppm m

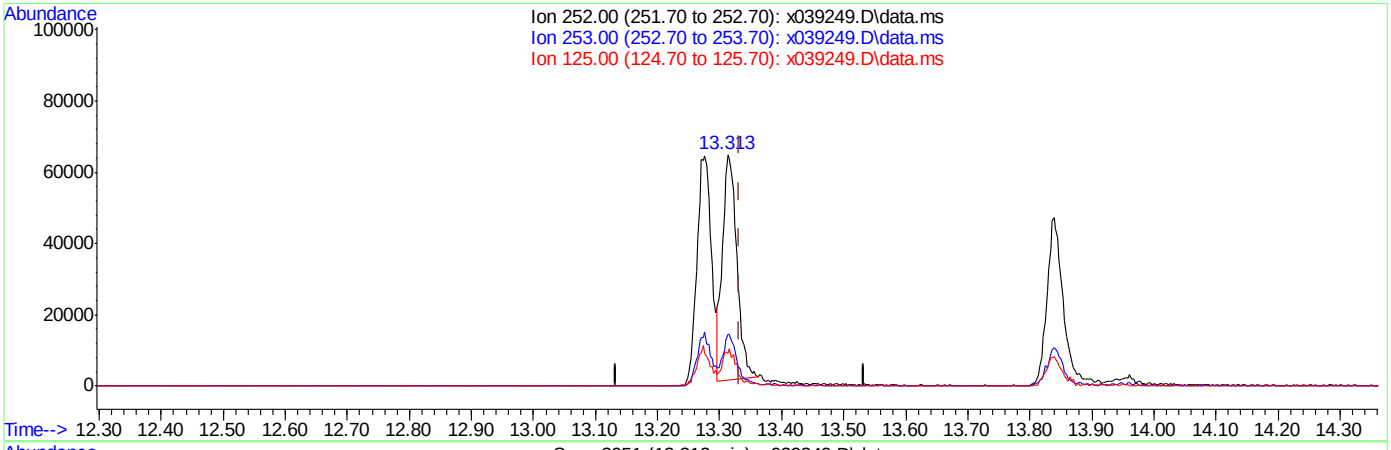
response 44967

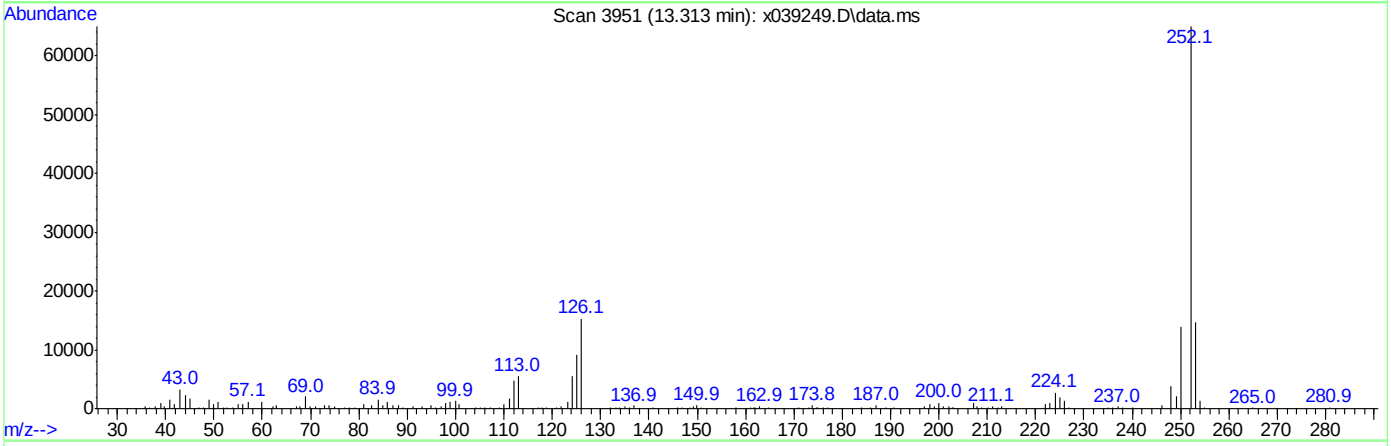
Ion	Exp%	Act%
105.00	100	100
122.00	71.80	76.57
77.00	80.10	84.80
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\sx1826\
Data File : x039249.D
Acq On : 30 Mar 2015 3:05 pm
Operator : nareshj
Sample : ic1826-5
Misc : op55392,sx1826,1000,,,1,1,water
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Mar 31 09:18:30 2015
Quant Method : C:\msdchem\1\METHODS\8270d_0330.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Fri Mar 27 11:06:47 2015
Response via : Initial Calibration





(95) Benzo[k]fluoranthene (P)

13.313min (-0.020) 4.74ppm

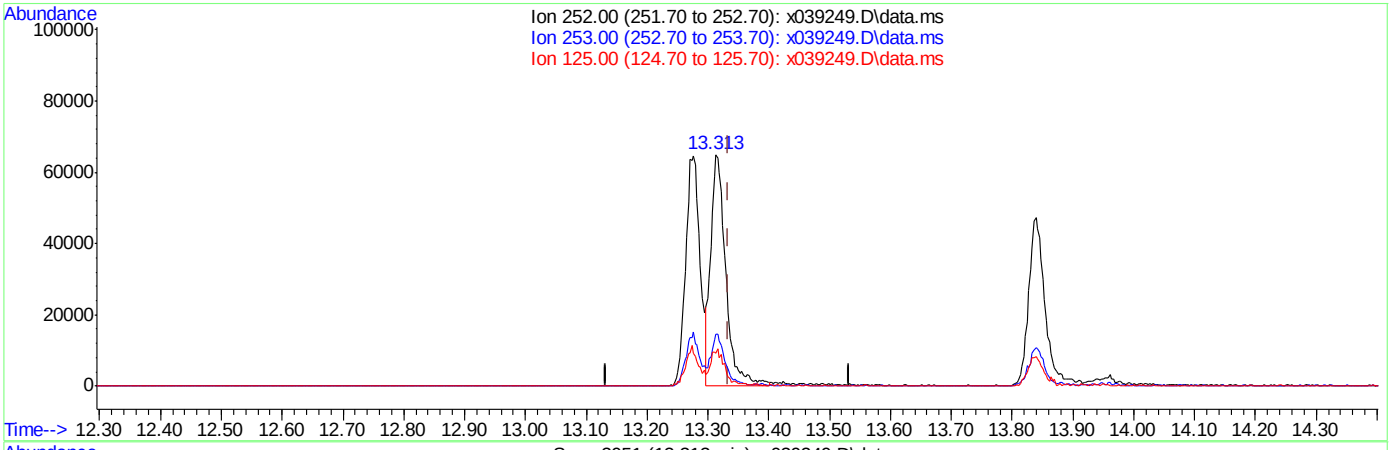
response 101096

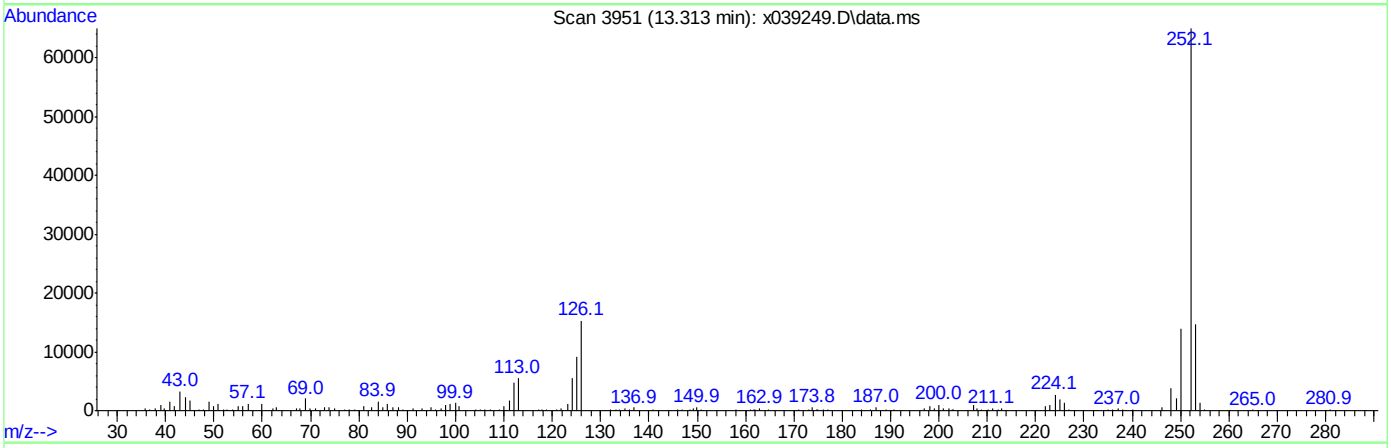
Ion	Exp%	Act%
252.00	100	100
253.00	22.30	22.68
125.00	12.70	13.74
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\sx1826\
Data File : x039249.D
Acq On : 30 Mar 2015 3:05 pm
Operator : nareshj
Sample : ic1826-5
Misc : op55392,sx1826,1000,,,1,1,water
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Mar 31 09:18:58 2015
Quant Method : C:\msdchem\1\METHODS\8270d_0330.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Fri Mar 27 11:06:47 2015
Response via : Initial Calibration





(95) Benzo[k]fluoranthene (P)

13.313min (-0.020) 5.30ppm m

response 113003

Ion	Exp%	Act%
252.00	100	100
253.00	22.30	22.67
125.00	12.70	14.14
0.00	0.00	0.00

Manual Integrations APPROVED (compounds with "m" flag)
Mike Eger
03/31/15 15:24

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\sx1826\
Data File : x039250.D
Acq On : 30 Mar 2015 3:29 pm
Operator : nareshj
Sample : ic1826-10
Misc : op55392,sx1826,1000,,,1,1,water
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Mar 31 09:19:21 2015
Quant Method : C:\msdchem\1\METHODS\8270d_0330.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Fri Mar 27 11:06:47 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	5.045	152	504708	40.00	ppm	0.00
22) Naphthalene-d8	6.142	136	1841740	40.00	ppm	0.00
41) Acenaphthene-d10	7.687	164	1034572	40.00	ppm	0.00
67) Phenanthrene-d10	8.977	188	1597516	40.00	ppm	0.00
83) Chrysene-d12	11.626	240	1325320	40.00	ppm	0.00
92) Perylene-d12	13.964	264	907149	40.00	ppm	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	4.016	112	368634	20.76	ppm	0.00
Spiked Amount 100.000	Range 14 - 67		Recovery = 20.76%			
9) Phenol-d5	4.803	99	376672	18.96	ppm	0.00
Spiked Amount 100.000	Range 10 - 50		Recovery = 18.96%			
23) Nitrobenzene-d5	5.539	82	202630	10.51	ppm	0.00
Spiked Amount 50.000	Range 42 - 108		Recovery = 21.02%#			
45) 2-Fluorobiphenyl	7.099	172	371104	10.56	ppm	0.00
Spiked Amount 50.000	Range 40 - 106		Recovery = 21.12%#			
72) 2,4,6-Tribromophenol	8.383	330	68660	18.50	ppm	0.00
Spiked Amount 100.000	Range 33 - 118		Recovery = 18.50%#			
86) Terphenyl-d14	10.415	244	306627	9.92	ppm	0.00
Spiked Amount 50.000	Range 39 - 121		Recovery = 19.84%#			
Target Compounds						Qvalue
2) 1,4-Dioxane	2.470	88	76197	9.34	ppm	78
3) N-nitrosodimethylamine	2.817	42	106205	10.65	ppm	92
4) Pyridine	2.803	79	201672	10.19	ppm	90
6) Benzaldehyde	4.687	106	164814	11.99	ppm	99
7) Aniline	4.806	93	276405	10.98	ppm	58
8) bis(2-Chloroethyl)ether	4.857	93	175628	10.43	ppm	87
10) Phenol	4.812	94	248743	10.81	ppm	62
11) 2-Chlorophenol	4.900	128	195605	10.43	ppm	91
12) 1,3-Dichlorobenzene	5.014	146	205976	10.18	ppm	96
13) 1,4-Dichlorobenzene	5.059	146	208885	10.34	ppm	100
14) 1,2-Dichlorobenzene	5.218	146	198169	10.29	ppm	97
15) Benzyl alcohol	5.187	108	128140	10.54	ppm	95
16) 2-Methylphenol	5.306	108	173636	10.82	ppm	94
17) bis(2-chloroisopropyl)...	5.320	45	344477	12.41	ppm	82
18) Acetophenone	5.411	105	264390	10.71	ppm	98
19) N-Nitroso-di-n-propyla...	5.434	70	90655	10.34	ppm	90
20) 3&4-Methylphenol	5.431	108	178939	10.59	ppm	98
21) Hexachloroethane	5.482	117	84388	10.27	ppm	81
24) Nitrobenzene	5.556	77	194807	10.79	ppm	94
25) Isophorone	5.755	82	362214	11.05	ppm	99
26) 2-Nitrophenol	5.832	139	99658	10.18	ppm	96
27) 2,4-Dimethylphenol	5.877	107	187850	11.18	ppm	92
28) bis(2-Chloroethoxy)met...	5.954	93	205247	11.05	ppm	97
29) Benzoic Acid	5.963	105	127059m	10.39	ppm	
30) 2,4-Dichlorophenol	6.039	162	150580	10.69	ppm	96
31) 1,2,4-Trichlorobenzene	6.107	180	150838	10.34	ppm	99
32) Naphthalene	6.159	128	528362	11.32	ppm	94

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\sx1826\
Data File : x039250.D
Acq On : 30 Mar 2015 3:29 pm
Operator : nareshj
Sample : ic1826-10
Misc : op55392,sx1826,1000,,,1,1,water
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Mar 31 09:19:21 2015
Quant Method : C:\msdchem\1\METHODS\8270d_0330.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Fri Mar 27 11:06:47 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
33) 4-Chloroaniline	6.227	127	233463	11.02	ppm		96
34) 2,6-Dichlorophenol	6.039	162	150580	10.69	ppm		92
35) Hexachlorobutadiene	6.323	225	81584	10.00	ppm		99
36) Caprolactam	6.500	113	59509	10.59	ppm	#	66
37) 4-Chloro-3-methylphenol	6.659	107	159466	10.72	ppm		94
38) 2-Methylnaphthalene	6.758	142	371849	11.14	ppm		99
39) 1-Methylnaphthalene	6.852	142	320320	10.87	ppm		95
40) 1,2,4,5-Tetrachloroben...	6.943	216	149196	10.45	ppm		98
42) Hexachlorocyclopentadiene	6.963	237	86467	9.71	ppm		96
43) 2,4,6-Trichlorophenol	7.034	196	99561	10.23	ppm		97
44) 2,4,5-Trichlorophenol	7.071	196	105883	10.13	ppm		96
46) 1,1'-Biphenyl	7.173	154	426803	10.80	ppm		98
47) 2-Chloronaphthalene	7.182	162	318668	10.76	ppm		98
48) 2-Nitroaniline	7.301	65	114288	10.43	ppm		91
49) p-Dinitrobenzene	7.398	75	66205	9.94	ppm	#	86
50) Dimethylphthalate	7.491	163	359850	10.60	ppm		99
51) m-Dinitrobenzene	7.497	168	57608	9.97	ppm	#	69
52) 2,6-Dinitrotoluene	7.548	165	82767	10.39	ppm		93
53) o-Dinitrobenzene	7.602	50	71833	10.75	ppm		86
54) Acenaphthylene	7.551	152	514948	10.97	ppm		99
55) 3-Nitroaniline	7.301	138	114910	10.08	ppm	#	59
56) Acenaphthene	7.713	153	323520	10.71	ppm	#	1
57) 2,4-Dinitrophenol	7.750	184	28117	8.80	ppm		94
58) 4-Nitrophenol	7.824	109	40861	8.68	ppm		86
59) Dibenzofuran	7.852	168	462223	11.01	ppm		92
60) 2,4-Dinitrotoluene	7.886	165	108419	10.14	ppm		97
61) 2,3,5,6-Tetrachlorophenol	7.963	232	80502	9.92	ppm		94
62) 2,3,4,6-Tetrachlorophenol	8.003	232	77525	9.70	ppm		89
63) Diethylphthalate	8.111	149	367466	10.58	ppm		98
64) Fluorene	8.153	166	372815	10.78	ppm		99
65) 4-Chlorophenyl-phenyle...	8.156	204	159244	10.04	ppm		85
66) 4-Nitroaniline	8.202	138	72738	9.28	ppm		93
68) 4,6-Dinitro-2-methylph...	8.241	198	48303	9.42	ppm	#	46
69) Diphenylamine	8.267	169	309248	10.57	ppm		99
70) n-Nitrosodiphenylamine	8.267	169	309248	12.69	ppm		95
71) 1,2-Diphenylhydrazine	8.293	77	382364	10.84	ppm		95
73) 4-Bromophenyl-phenylether	8.582	248	84506	9.95	ppm		85
74) Hexachlorobenzene	8.710	284	79022	9.71	ppm		85
75) Simazine	8.733	201	50721	21.03	ppm		97
76) Atrazine	8.767	200	99818	10.02	ppm	#	70
77) Pentachlorophenol	8.869	266	48490	9.80	ppm		97
78) Phenanthrene	8.994	178	500300	10.82	ppm		99
79) Anthracene	9.031	178	506361	11.05	ppm		99
80) Carbazole	9.179	167	465342	11.24	ppm		99
81) Di-n-butylphthalate	9.543	149	610314	11.10	ppm		100
82) Fluoranthene	10.049	202	518845	10.95	ppm		97
84) Benzidine	10.171	184	184133	11.15	ppm		99
85) Pyrene	10.250	202	527104	10.85	ppm		96
87) Butylbenzylphthalate	10.978	149	242664	10.40	ppm		92
88) 3,3'-Dichlorobenzidine	11.597	252	91128	8.74	ppm		94

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\sx1826\
Data File : x039250.D
Acq On : 30 Mar 2015 3:29 pm
Operator : nareshj
Sample : ic1826-10
Misc : op55392,sx1826,1000,,,1,1,water
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Mar 31 09:19:21 2015
Quant Method : C:\msdchem\1\METHODS\8270d_0330.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Fri Mar 27 11:06:47 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
89) Benzo[a]anthracene	11.597	228	372699	9.93 ppm	98
90) Chrysene	11.654	228	366824	10.39 ppm	99
91) bis(2-Ethylhexyl)phtha...	11.779	149	321188	10.23 ppm	99
93) Di-n-octylphthalate	12.771	149	464837	9.82 ppm	94
94) Benzo[b]fluoranthene	13.279	252	281304	9.58 ppm	97
95) Benzo[k]fluoranthene	13.319	252	288245	10.21 ppm	95
96) Benzo[a]pyrene	13.842	252	236471	9.05 ppm	94
97) Indeno[1,2,3-cd]pyrene	16.010	276	130715	7.61 ppm	94
98) Dibenz[a,h]anthracene	16.084	278	116042	7.27 ppm	95
99) Benzo[g,h,i]perylene	16.462	276	164577	8.49 ppm	91

(#) = qualifier out of range (m) = manual integration (+) = signals summed

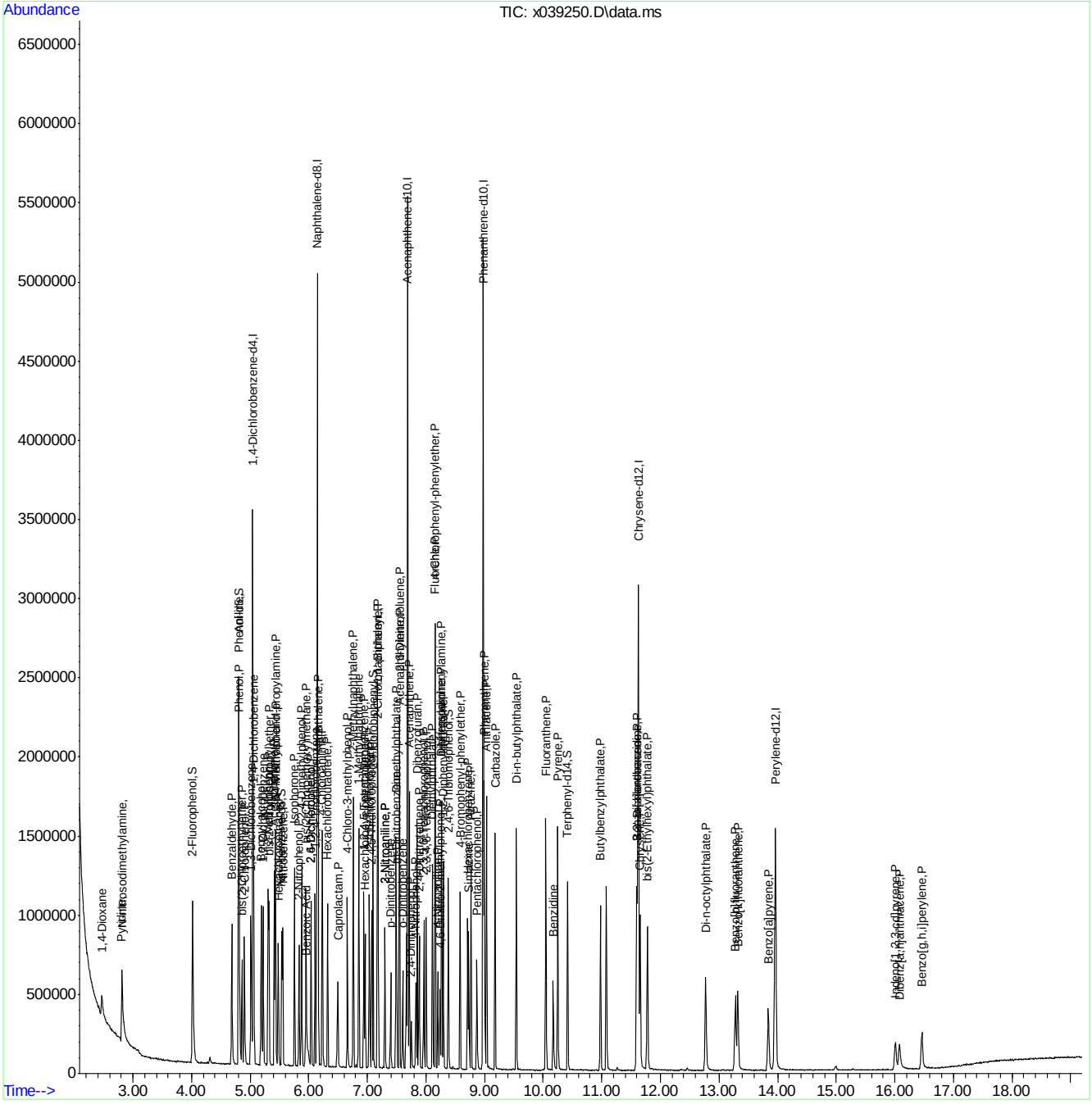
7.6.35

7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\sx1826\
Data File : x039250.D
Acq On : 30 Mar 2015 3:29 pm
Operator : nareshj
Sample : ic1826-10
Misc : op55392,sx1826,1000,,,1,1,water
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Mar 31 09:19:21 2015
Quant Method : C:\msdchem\1\METHODS\8270d_0330.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Fri Mar 27 11:06:47 2015
Response via : Initial Calibration



ACCUTEST LABORATORIES FA23258

Manual Integration Approval Summary

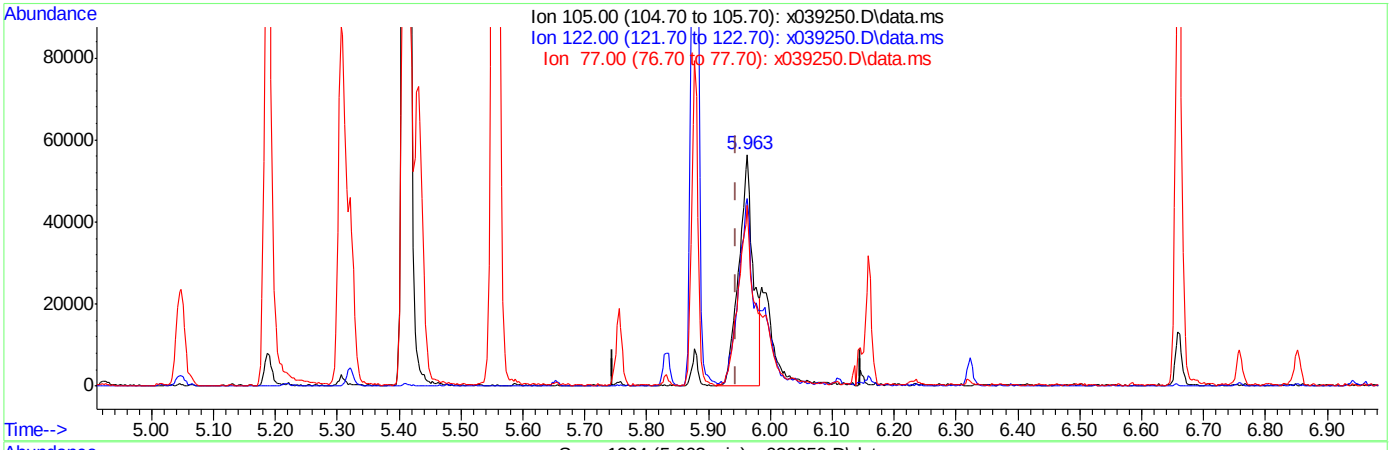
Sample Number:	SX1826-IC1826	**Method:**	SW846 8270D
Lab FileID:	X039250.D	**Analyst approved:**	03/31/15 11:22 Martha Valls
Injection Time:	03/30/15 15:29	**Supervisor approved:**	03/31/15 15:24 Mike Eger

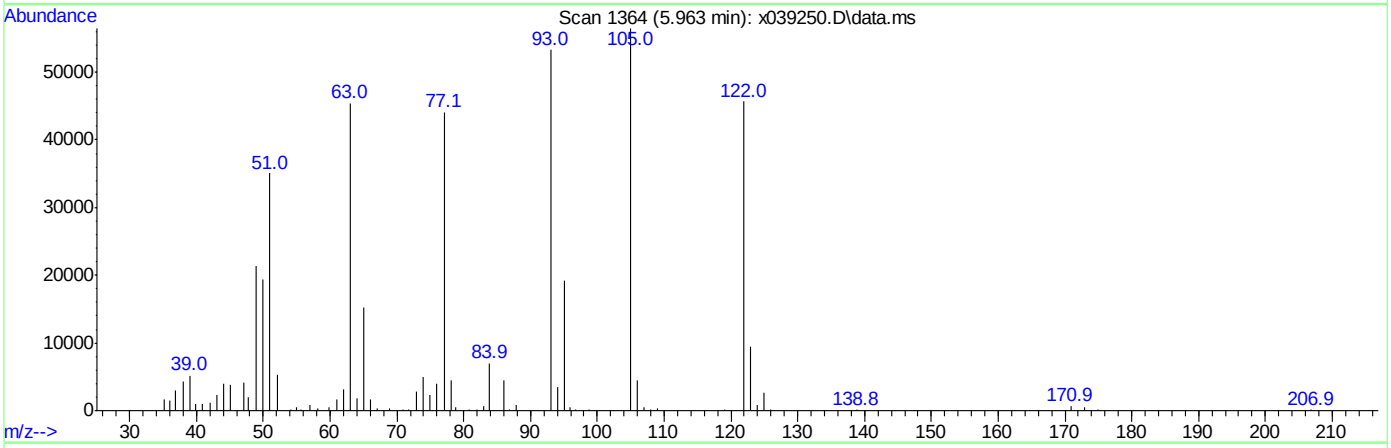
Parameter	CAS	Sig#	R.T. (min.)	Reason
Benzoic Acid	65-85-0		5.96	Split peak

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\sx1826\
Data File : x039250.D
Acq On : 30 Mar 2015 3:29 pm
Operator : nareshj
Sample : ic1826-10
Misc : op55392,sx1826,1000,,,1,1,water
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Mar 31 09:19:14 2015
Quant Method : C:\msdchem\1\METHODS\8270d_0330.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Fri Mar 27 11:06:47 2015
Response via : Initial Calibration





TIC: x039250.D\data.ms

(29) Benzoic Acid

5.963min (+0.017) 7.52ppm

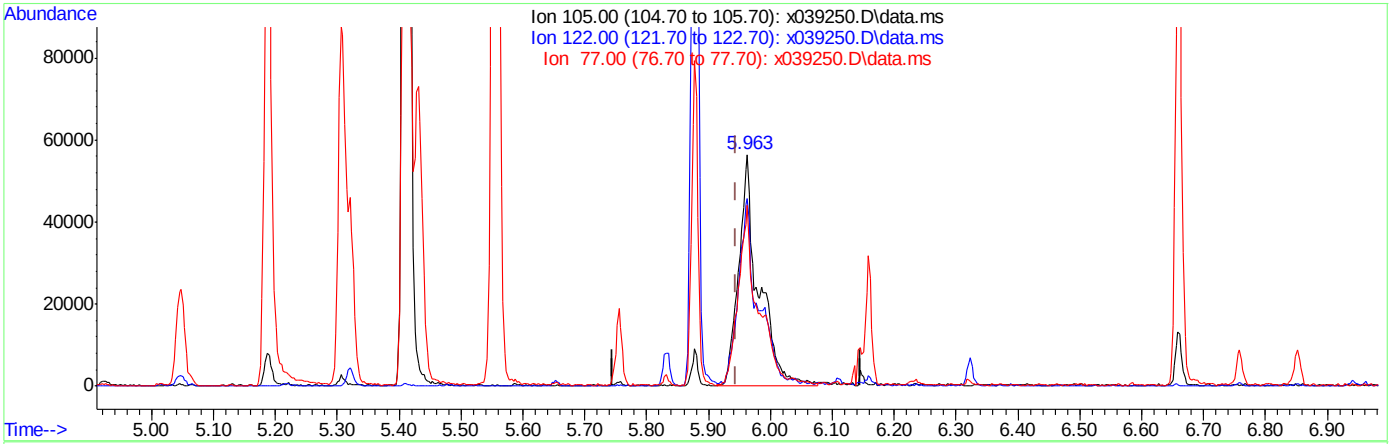
response 91902

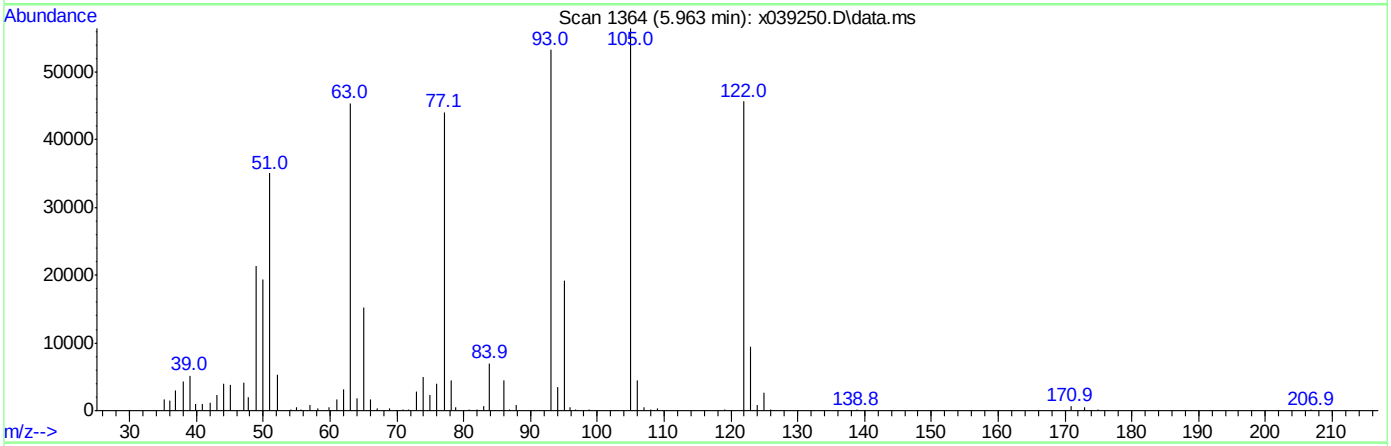
Ion	Exp%	Act%
105.00	100	100
122.00	71.80	78.51
77.00	80.10	76.62
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\sx1826\
Data File : x039250.D
Acq On : 30 Mar 2015 3:29 pm
Operator : nareshj
Sample : ic1826-10
Misc : op55392,sx1826,1000,,,1,1,water
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Mar 31 09:19:14 2015
Quant Method : C:\msdchem\1\METHODS\8270d_0330.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Fri Mar 27 11:06:47 2015
Response via : Initial Calibration





TIC: x039250.D\data.ms

(29) Benzoic Acid

5.963min (+0.017) 10.39ppm m

response 127059

Ion	Exp%	Act%
105.00	100	100
122.00	71.80	80.83
77.00	80.10	78.01
0.00	0.00	0.00

Manual Integrations APPROVED (compounds with "m" flag)
Mike Eger
03/31/15 15:24

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\sx1826\
Data File : x039251.D
Acq On : 30 Mar 2015 3:54 pm
Operator : nareshj
Sample : ic1826-25
Misc : op55392,sx1826,1000,,,1,1,water
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Mar 31 09:20:16 2015
Quant Method : C:\msdchem\1\METHODS\8270d_0330.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Fri Mar 27 11:06:47 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	5.045	152	325288	40.00	ppm	0.00
22) Naphthalene-d8	6.142	136	1258385	40.00	ppm	0.00
41) Acenaphthene-d10	7.687	164	670558	40.00	ppm	0.00
67) Phenanthrene-d10	8.975	188	1035713	40.00	ppm	0.00
83) Chrysene-d12	11.623	240	919264	40.00	ppm	0.00
92) Perylene-d12	13.961	264	604750	40.00	ppm	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	4.011	112	592180	51.75	ppm	0.00
Spiked Amount 100.000	Range 14 - 67		Recovery = 51.75%			
9) Phenol-d5	4.800	99	601025	46.93	ppm	0.00
Spiked Amount 100.000	Range 10 - 50		Recovery = 46.93%			
23) Nitrobenzene-d5	5.539	82	331187	25.13	ppm	0.00
Spiked Amount 50.000	Range 42 - 108		Recovery = 50.26%			
45) 2-Fluorobiphenyl	7.099	172	570130	25.04	ppm	0.00
Spiked Amount 50.000	Range 40 - 106		Recovery = 50.08%			
72) 2,4,6-Tribromophenol	8.386	330	109284	45.42	ppm	0.00
Spiked Amount 100.000	Range 33 - 118		Recovery = 45.42%			
86) Terphenyl-d14	10.418	244	503988	23.52	ppm	0.00
Spiked Amount 50.000	Range 39 - 121		Recovery = 47.04%			
Target Compounds						Qvalue
2) 1,4-Dioxane	2.439	88	123601	23.51	ppm	78
3) N-nitrosodimethylamine	2.786	42	194329	30.23	ppm	96
4) Pyridine	2.775	79	337685	26.47	ppm	94
6) Benzaldehyde	4.681	106	251615	28.41	ppm	98
7) Aniline	4.803	93	432348	26.66	ppm	70
8) bis(2-Chloroethyl)ether	4.854	93	280186	25.82	ppm	87
10) Phenol	4.812	94	389066	26.22	ppm	81
11) 2-Chlorophenol	4.900	128	312167	25.82	ppm	95
12) 1,3-Dichlorobenzene	5.014	146	333044	25.54	ppm	98
13) 1,4-Dichlorobenzene	5.056	146	333383	25.59	ppm	98
14) 1,2-Dichlorobenzene	5.218	146	318949	25.69	ppm	97
15) Benzyl alcohol	5.187	108	199035	25.40	ppm	95
16) 2-Methylphenol	5.306	108	270917	26.20	ppm	93
17) bis(2-chloroisopropyl)...	5.320	45	536197	29.98	ppm	83
18) Acetophenone	5.411	105	405473	25.48	ppm	99
19) N-Nitroso-di-n-propyla...	5.434	70	166397	29.43	ppm	87
20) 3&4-Methylphenol	5.431	108	285766	26.25	ppm	97
21) Hexachloroethane	5.480	117	136012	25.68	ppm	80
24) Nitrobenzene	5.553	77	311781	25.28	ppm	95
25) Isophorone	5.755	82	567741	25.34	ppm	99
26) 2-Nitrophenol	5.832	139	160177	23.94	ppm	97
27) 2,4-Dimethylphenol	5.877	107	291831	25.43	ppm	93
28) bis(2-Chloroethoxy)met...	5.954	93	325902	25.67	ppm	97
29) Benzoic Acid	5.982	105	227758m	27.27	ppm	
30) 2,4-Dichlorophenol	6.036	162	235594	24.47	ppm	96
31) 1,2,4-Trichlorobenzene	6.107	180	237740	23.86	ppm	97
32) Naphthalene	6.159	128	827504	25.94	ppm	94

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\sx1826\
Data File : x039251.D
Acq On : 30 Mar 2015 3:54 pm
Operator : nareshj
Sample : ic1826-25
Misc : op55392,sx1826,1000,,,1,1,water
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Mar 31 09:20:16 2015
Quant Method : C:\msdchem\1\METHODS\8270d_0330.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Fri Mar 27 11:06:47 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
33) 4-Chloroaniline	6.227	127	368429	25.46	ppm		96
34) 2,6-Dichlorophenol	6.036	162	235594	24.47	ppm		92
35) Hexachlorobutadiene	6.323	225	132745	23.81	ppm		97
36) Caprolactam	6.508	113	94281	24.57	ppm	#	66
37) 4-Chloro-3-methylphenol	6.662	107	260434	25.63	ppm		99
38) 2-Methylnaphthalene	6.758	142	569454	24.98	ppm		97
39) 1-Methylnaphthalene	6.852	142	505637	25.11	ppm		96
40) 1,2,4,5-Tetrachloroben...	6.943	216	226128	23.18	ppm		97
42) Hexachlorocyclopentadiene	6.963	237	147640	25.59	ppm		99
43) 2,4,6-Trichlorophenol	7.034	196	153362	24.32	ppm		96
44) 2,4,5-Trichlorophenol	7.071	196	167091	24.66	ppm		100
46) 1,1'-Biphenyl	7.176	154	657594	25.67	ppm		97
47) 2-Chloronaphthalene	7.182	162	488010	25.41	ppm		97
48) 2-Nitroaniline	7.301	65	184528	25.98	ppm		90
49) p-Dinitrobenzene	7.398	75	112795	26.14	ppm		86
50) Dimethylphthalate	7.491	163	558552	25.38	ppm		100
51) m-Dinitrobenzene	7.500	168	91670	24.48	ppm	#	58
52) 2,6-Dinitrotoluene	7.548	165	128690	24.93	ppm		91
53) o-Dinitrobenzene	7.605	50	118048	27.25	ppm		87
54) Acenaphthylene	7.551	152	804647	26.45	ppm		98
55) 3-Nitroaniline	7.301	138	186187	25.20	ppm	#	61
56) Acenaphthene	7.716	153	509351	26.01	ppm	#	1
57) 2,4-Dinitrophenol	7.753	184	62298	30.09	ppm		96
58) 4-Nitrophenol	7.827	109	79853	26.18	ppm	#	87
59) Dibenzofuran	7.852	168	717267	26.36	ppm		92
60) 2,4-Dinitrotoluene	7.886	165	175604	25.33	ppm		93
61) 2,3,5,6-Tetrachlorophenol	7.963	232	126036	23.96	ppm		91
62) 2,3,4,6-Tetrachlorophenol	8.003	232	125785	24.28	ppm		90
63) Diethylphthalate	8.114	149	581587	25.83	ppm		99
64) Fluorene	8.156	166	568617	25.37	ppm		99
65) 4-Chlorophenyl-phenyle...	8.159	204	253268	24.63	ppm		90
66) 4-Nitroaniline	8.207	138	142631	28.09	ppm		89
68) 4,6-Dinitro-2-methylph...	8.244	198	92810	27.92	ppm		82
69) Diphenylamine	8.270	169	482314	25.44	ppm		99
70) n-Nitrosodiphenylamine	8.270	169	482314	30.52	ppm		95
71) 1,2-Diphenylhydrazine	8.295	77	610596	26.70	ppm		95
73) 4-Bromophenyl-phenylether	8.582	248	129730	23.56	ppm		85
74) Hexachlorobenzene	8.710	284	120877	22.92	ppm		79
75) Simazine	8.736	201	81127	51.88	ppm		96
76) Atrazine	8.770	200	151791	23.50	ppm	#	74
77) Pentachlorophenol	8.869	266	80969	25.23	ppm		100
78) Phenanthrene	8.994	178	778061	25.97	ppm		98
79) Anthracene	9.034	178	776288	26.13	ppm		99
80) Carbazole	9.182	167	744715	27.74	ppm		96
81) Di-n-butylphthalate	9.543	149	945513	26.53	ppm		99
82) Fluoranthene	10.046	202	797398	25.95	ppm		95
84) Benzidine	10.171	184	366047	31.95	ppm		99
85) Pyrene	10.250	202	847482	25.16	ppm		95
87) Butylbenzylphthalate	10.978	149	402865	24.90	ppm		93
88) 3,3'-Dichlorobenzidine	11.600	252	186417	25.76	ppm		98

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\sx1826\
Data File : x039251.D
Acq On : 30 Mar 2015 3:54 pm
Operator : nareshj
Sample : ic1826-25
Misc : op55392,sx1826,1000,,,1,1,water
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Mar 31 09:20:16 2015
Quant Method : C:\msdchem\1\METHODS\8270d_0330.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Fri Mar 27 11:06:47 2015
Response via : Initial Calibration

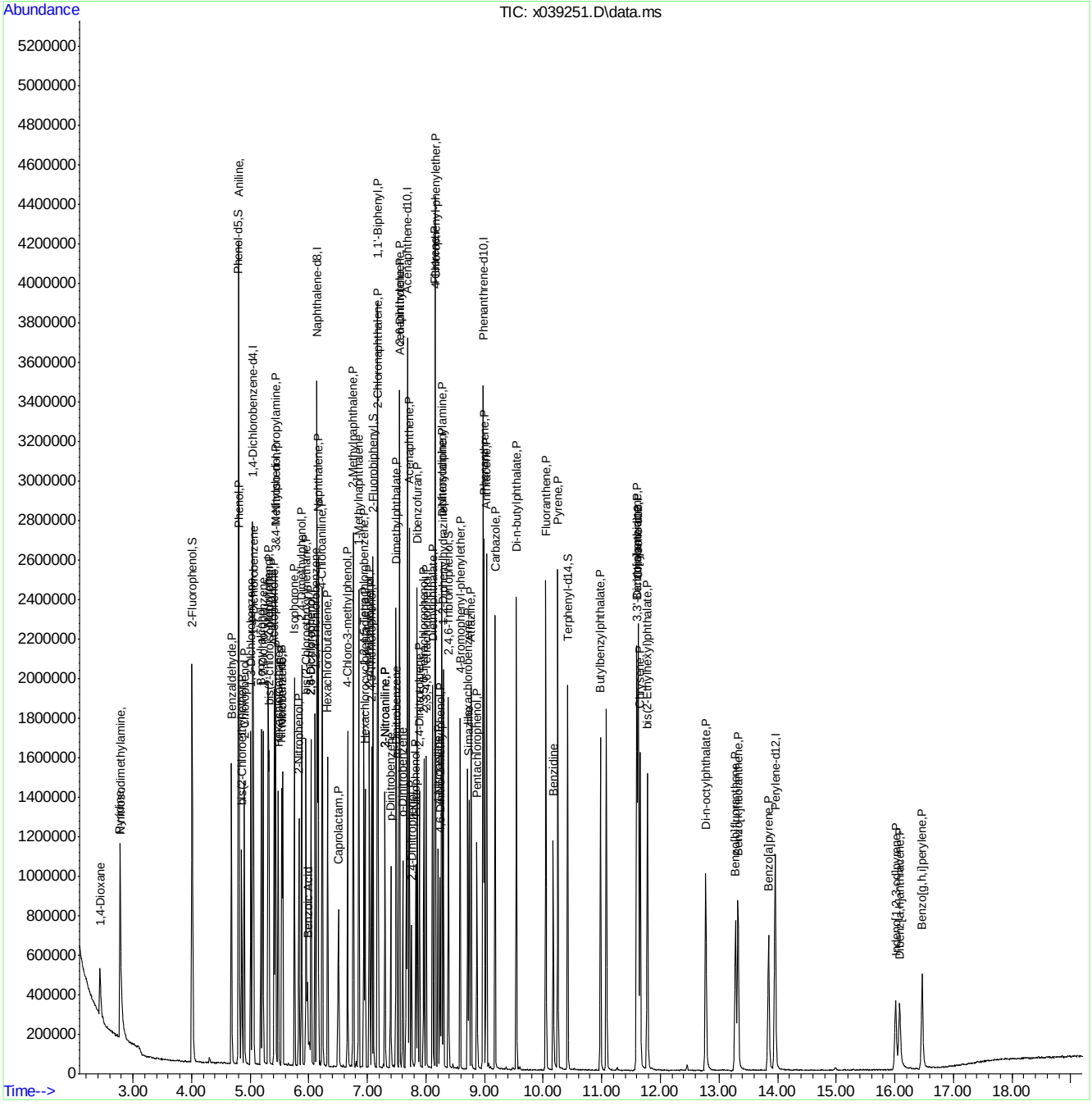
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
89) Benzo[a]anthracene	11.597	228	652845	25.07 ppm	100
90) Chrysene	11.654	228	607891	24.83 ppm	98
91) bis(2-Ethylhexyl)phtha...	11.779	149	526618	24.19 ppm	98
93) Di-n-octylphthalate	12.774	149	787696	24.95 ppm	94
94) Benzo[b]fluoranthene	13.282	252	479184	24.48 ppm	96
95) Benzo[k]fluoranthene	13.325	252	496172	26.38 ppm	97
96) Benzo[a]pyrene	13.845	252	429922	24.68 ppm	95
97) Indeno[1,2,3-cd]pyrene	16.016	276	262435	22.92 ppm	88
98) Dibenz[a,h]anthracene	16.084	278	236189	22.18 ppm	92
99) Benzo[g,h,i]perylene	16.467	276	321798	24.91 ppm	90

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\sx1826\
Data File : x039251.D
Acq On : 30 Mar 2015 3:54 pm
Operator : nareshj
Sample : ic1826-25
Misc : op55392,sx1826,1000,,,1,1,water
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Mar 31 09:20:16 2015
Quant Method : C:\msdchem\1\METHODS\8270d_0330.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Fri Mar 27 11:06:47 2015
Response via : Initial Calibration



Manual Integration Approval Summary

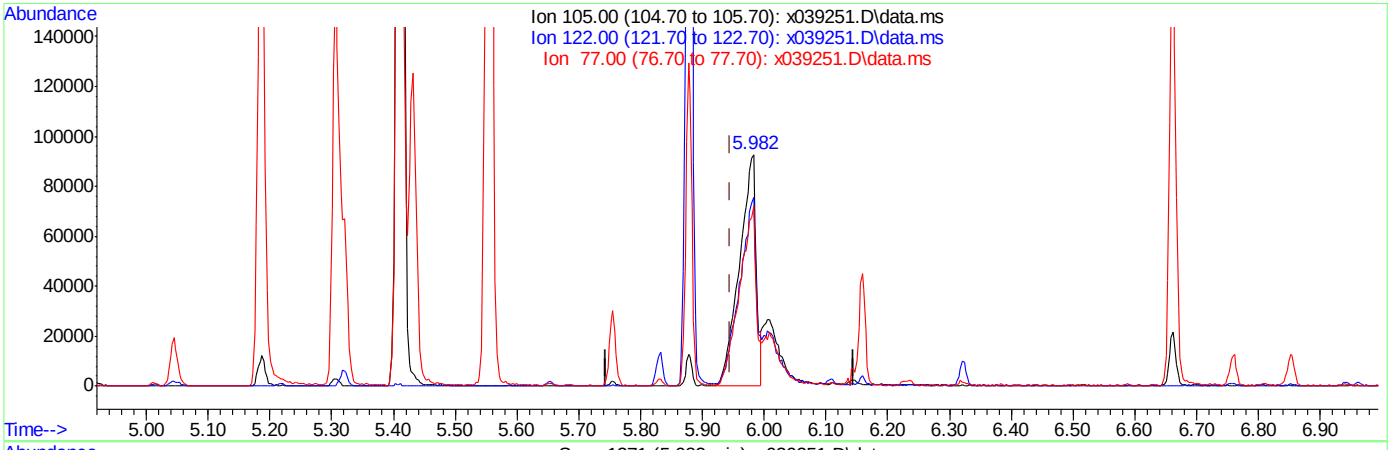
Sample Number:	SX1826-IC1826	**Method:**	SW846 8270D
Lab FileID:	X039251.D	**Analyst approved:**	03/31/15 11:22 Martha Valls
Injection Time:	03/30/15 15:54	**Supervisor approved:**	03/31/15 15:24 Mike Eger

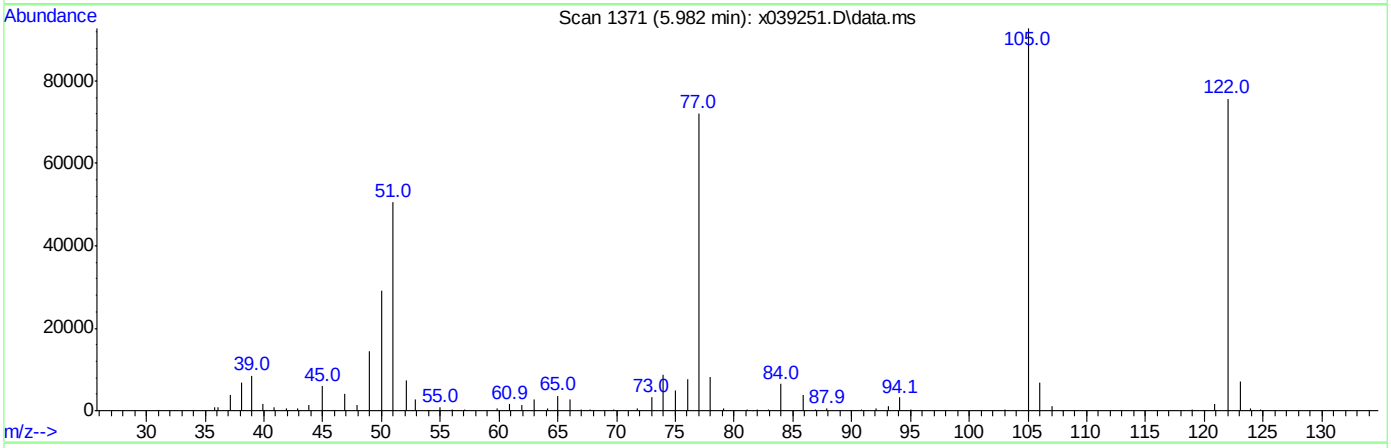
Parameter	CAS	Sig#	R.T. (min.)	Reason
Benzoic Acid	65-85-0		5.98	Split peak

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\sx1826\
Data File : x039251.D
Acq On : 30 Mar 2015 3:54 pm
Operator : nareshj
Sample : ic1826-25
Misc : op55392,sx1826,1000,,,1,1,water
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Mar 31 09:20:05 2015
Quant Method : C:\msdchem\1\METHODS\8270d_0330.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Fri Mar 27 11:06:47 2015
Response via : Initial Calibration





TIC: x039251.D\data.ms

(29) Benzoic Acid

5.982min (+0.037) 20.72ppm

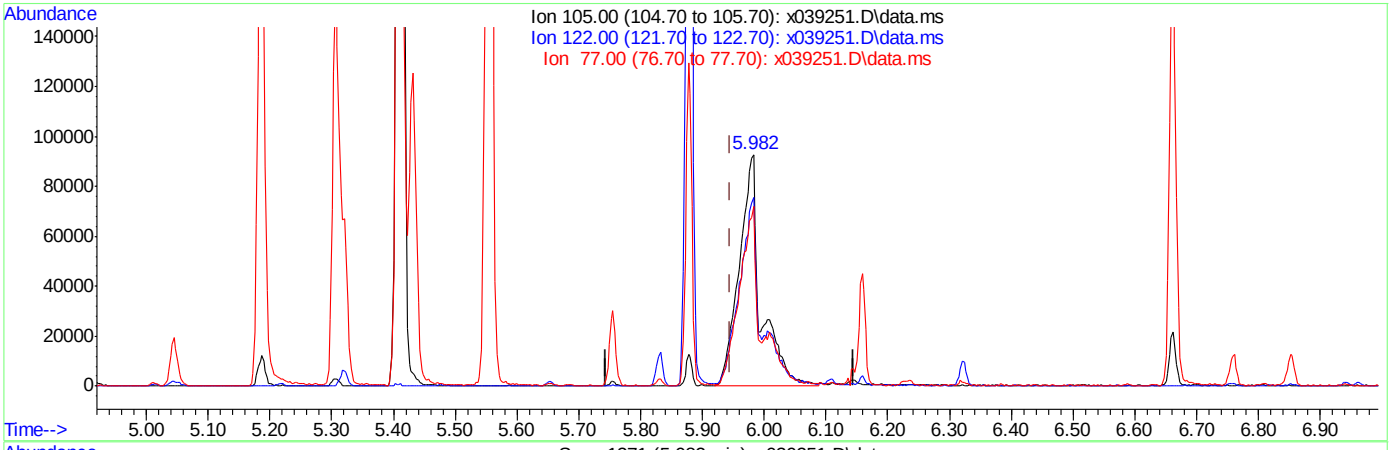
response 173088

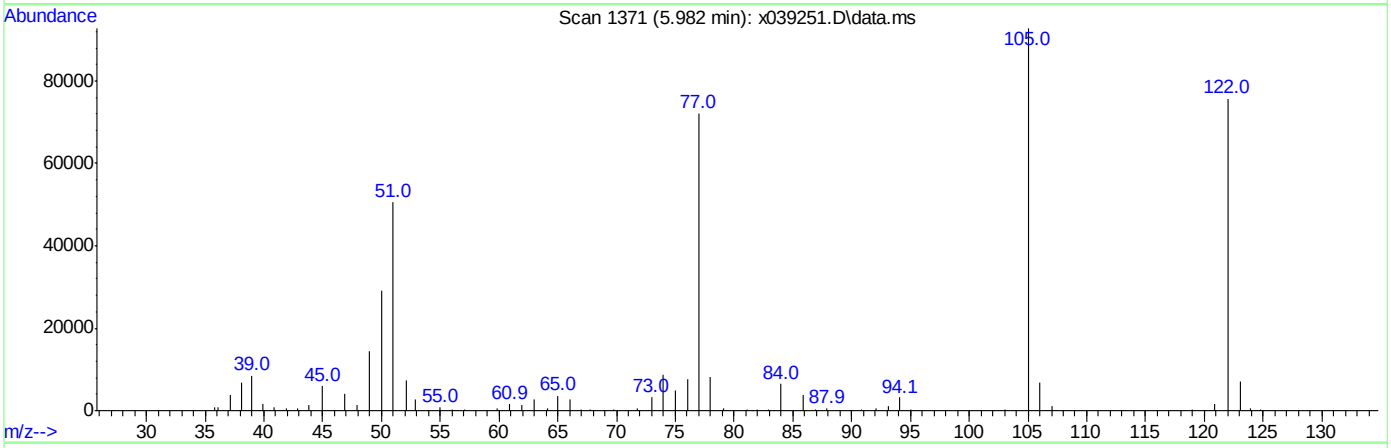
Ion	Exp%	Act%
105.00	100	100
122.00	71.80	79.96
77.00	80.10	77.27
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\sx1826\
Data File : x039251.D
Acq On : 30 Mar 2015 3:54 pm
Operator : nareshj
Sample : ic1826-25
Misc : op55392,sx1826,1000,,,1,1,water
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Mar 31 09:20:05 2015
Quant Method : C:\msdchem\1\METHODS\8270d_0330.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Fri Mar 27 11:06:47 2015
Response via : Initial Calibration





TIC: x039251.D\data.ms

(29) Benzoic Acid

5.982min (+0.037) 27.27ppm m

response 227758

Ion	Exp%	Act%
105.00	100	100
122.00	71.80	81.65
77.00	80.10	77.82
0.00	0.00	0.00

Manual Integrations APPROVED (compounds with "m" flag)
Mike Eger
03/31/15 15:24

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\sx1826\
Data File : x039252.D
Acq On : 30 Mar 2015 4:19 pm
Operator : nareshj
Sample : icc1826-50
Misc : op55392,sx1826,1000,,,1,1,water
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Mar 31 09:18:02 2015
Quant Method : C:\msdchem\1\METHODS\8270d_0330.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Tue Mar 31 09:17:18 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	5.045	152	294565	40.00	ppm	0.00
22) Naphthalene-d8	6.142	136	1158100	40.00	ppm	0.00
41) Acenaphthene-d10	7.690	164	623440	40.00	ppm	0.00
67) Phenanthrene-d10	8.977	188	993506	40.00	ppm	0.00
83) Chrysene-d12	11.628	240	883242	40.00	ppm	0.00
92) Perylene-d12	13.964	264	589324	40.00	ppm	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	4.011	112	1078907	104.11	ppm	0.00
Spiked Amount 100.000	Range 14 - 67		Recovery = 104.11%#			
9) Phenol-d5	4.806	99	1087455	93.78	ppm	0.00
Spiked Amount 100.000	Range 10 - 50		Recovery = 93.78%#			
23) Nitrobenzene-d5	5.542	82	608512	50.17	ppm	0.00
Spiked Amount 50.000	Range 42 - 108		Recovery = 100.34%			
45) 2-Fluorobiphenyl	7.102	172	1068061	50.45	ppm	0.00
Spiked Amount 50.000	Range 40 - 106		Recovery = 100.90%			
72) 2,4,6-Tribromophenol	8.389	330	220057	95.34	ppm	0.00
Spiked Amount 100.000	Range 33 - 118		Recovery = 95.34%			
86) Terphenyl-d14	10.421	244	1000966	48.62	ppm	0.00
Spiked Amount 50.000	Range 39 - 121		Recovery = 97.24%			
Target Compounds						Qvalue
2) 1,4-Dioxane	2.436	88	235386	49.43	ppm #	71
3) N-nitrosodimethylamine	2.783	42	351861	60.45	ppm	97
4) Pyridine	2.775	79	637609	55.19	ppm	93
6) Benzaldehyde	4.681	106	439451	54.80	ppm	95
7) Aniline	4.806	93	789429	53.75	ppm	75
8) bis(2-Chloroethyl)ether	4.857	93	508568	51.76	ppm	83
10) Phenol	4.818	94	707896	52.69	ppm	94
11) 2-Chlorophenol	4.900	128	570584	52.12	ppm	92
12) 1,3-Dichlorobenzene	5.014	146	606729	51.38	ppm	98
13) 1,4-Dichlorobenzene	5.059	146	610809	51.78	ppm	99
14) 1,2-Dichlorobenzene	5.218	146	583549	51.91	ppm	97
15) Benzyl alcohol	5.190	108	363206	51.18	ppm	94
16) 2-Methylphenol	5.309	108	506496	54.10	ppm	95
17) bis(2-chloroisopropyl)...	5.320	45	908904	56.12	ppm	86
18) Acetophenone	5.414	105	748072	51.91	ppm	95
19) N-Nitroso-di-n-propyla...	5.440	70	313993	61.34	ppm	90
20) 3&4-Methylphenol	5.434	108	527441	53.51	ppm	95
21) Hexachloroethane	5.480	117	250647	52.25	ppm	85
24) Nitrobenzene	5.556	77	574311	50.60	ppm	93
25) Isophorone	5.758	82	1050856	50.97	ppm	98
26) 2-Nitrophenol	5.832	139	302777	49.17	ppm	97
27) 2,4-Dimethylphenol	5.880	107	537212	50.86	ppm	93
28) bis(2-Chloroethoxy)met...	5.957	93	596550	51.06	ppm	96
29) Benzoic Acid	6.005	105	456172m	59.35	ppm	
30) 2,4-Dichlorophenol	6.039	162	436715	49.29	ppm	96
31) 1,2,4-Trichlorobenzene	6.110	180	448686	48.93	ppm	96
32) Naphthalene	6.162	128	1492622	50.85	ppm	96

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\sx1826\
Data File : x039252.D
Acq On : 30 Mar 2015 4:19 pm
Operator : nareshj
Sample : icc1826-50
Misc : op55392,sx1826,1000,,,1,1,water
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Mar 31 09:18:02 2015
Quant Method : C:\msdchem\1\METHODS\8270d_0330.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Tue Mar 31 09:17:18 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
33) 4-Chloroaniline	6.230	127	688550	51.70	ppm		97
34) 2,6-Dichlorophenol	6.039	162	436715	49.29	ppm		92
35) Hexachlorobutadiene	6.324	225	249336	48.60	ppm		97
36) Caprolactam	6.534	113	183563	51.97	ppm	#	64
37) 4-Chloro-3-methylphenol	6.664	107	487558	52.14	ppm		98
38) 2-Methylnaphthalene	6.761	142	1043173	49.72	ppm		97
39) 1-Methylnaphthalene	6.855	142	928688	50.12	ppm		98
40) 1,2,4,5-Tetrachloroben...	6.943	216	444571	49.52	ppm		97
42) Hexachlorocyclopentadiene	6.963	237	295158	55.02	ppm		98
43) 2,4,6-Trichlorophenol	7.037	196	299009	50.99	ppm		97
44) 2,4,5-Trichlorophenol	7.074	196	314125	49.87	ppm		99
46) 1,1'-Biphenyl	7.179	154	1189637	49.95	ppm		93
47) 2-Chloronaphthalene	7.184	162	921049	51.59	ppm		97
48) 2-Nitroaniline	7.304	65	363004	54.97	ppm		91
49) p-Dinitrobenzene	7.400	75	222032	55.33	ppm		87
50) Dimethylphthalate	7.497	163	1047679	51.20	ppm		99
51) m-Dinitrobenzene	7.503	168	178397	51.25	ppm	#	63
52) 2,6-Dinitrotoluene	7.551	165	243435	50.72	ppm		95
53) o-Dinitrobenzene	7.611	50	224625	55.78	ppm		89
54) Acenaphthylene	7.554	152	1446540	51.14	ppm		95
55) 3-Nitroaniline	7.304	138	359052	52.26	ppm	#	60
56) Acenaphthene	7.719	153	946449	51.99	ppm	#	1
57) 2,4-Dinitrophenol	7.756	184	145818	75.74	ppm		100
58) 4-Nitrophenol	7.832	109	167618	59.11	ppm	#	71
59) Dibenzofuran	7.855	168	1313341	51.92	ppm		95
60) 2,4-Dinitrotoluene	7.892	165	342442	53.13	ppm		95
61) 2,3,5,6-Tetrachlorophenol	7.966	232	257013	52.56	ppm		91
62) 2,3,4,6-Tetrachlorophenol	8.006	232	250637	52.03	ppm		92
63) Diethylphthalate	8.116	149	1088071	51.99	ppm		98
64) Fluorene	8.159	166	1072956	51.49	ppm		99
65) 4-Chlorophenyl-phenyle...	8.159	204	494244	51.70	ppm		94
66) 4-Nitroaniline	8.216	138	285811	60.54	ppm		88
68) 4,6-Dinitro-2-methylph...	8.250	198	192613	60.40	ppm		82
69) Diphenylamine	8.273	169	924976	50.86	ppm		100
70) n-Nitrosodiphenylamine	8.273	169	924976	61.03	ppm		95
71) 1,2-Diphenylhydrazine	8.298	77	1120063	51.06	ppm		95
73) 4-Bromophenyl-phenylether	8.585	248	255402	48.35	ppm		89
74) Hexachlorobenzene	8.716	284	248739	49.17	ppm		92
75) Simazine	8.744	201	157125	104.74	ppm		96
76) Atrazine	8.776	200	308446	49.78	ppm	#	76
77) Pentachlorophenol	8.875	266	170268	55.32	ppm		99
78) Phenanthrene	8.997	178	1459483	50.78	ppm		96
79) Anthracene	9.037	178	1484054	52.07	ppm		97
80) Carbazole	9.185	167	1424676	55.32	ppm		97
81) Di-n-butylphthalate	9.546	149	1714125	50.14	ppm		98
82) Fluoranthene	10.051	202	1521390	51.61	ppm		95
84) Benzidine	10.177	184	723211	65.70	ppm		99
85) Pyrene	10.256	202	1575500	48.68	ppm		93
87) Butylbenzylphthalate	10.983	149	768382	49.43	ppm		95
88) 3,3'-Dichlorobenzidine	11.603	252	385574	55.46	ppm		98

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\sx1826\
Data File : x039252.D
Acq On : 30 Mar 2015 4:19 pm
Operator : nareshj
Sample : icc1826-50
Misc : op55392,sx1826,1000,,,1,1,water
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Mar 31 09:18:02 2015
Quant Method : C:\msdchem\1\METHODS\8270d_0330.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Tue Mar 31 09:17:18 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
89) Benzo[a]anthracene	11.603	228	1301298	52.02 ppm	97
90) Chrysene	11.663	228	1217596	51.77 ppm	98
91) bis(2-Ethylhexyl)phtha...	11.782	149	1023717	48.95 ppm	98
93) Di-n-octylphthalate	12.776	149	1554097	50.51 ppm	94
94) Benzo[b]fluoranthene	13.291	252	979594	51.36 ppm	96
95) Benzo[k]fluoranthene	13.333	252	1009023	55.04 ppm	97
96) Benzo[a]pyrene	13.856	252	913209	53.79 ppm	96
97) Indeno[1,2,3-cd]pyrene	16.030	276	585549	52.47 ppm	94
98) Dibenz[a,h]anthracene	16.095	278	548221	52.83 ppm	94
99) Benzo[g,h,i]perylene	16.485	276	678515	53.90 ppm	94

(#) = qualifier out of range (m) = manual integration (+) = signals summed

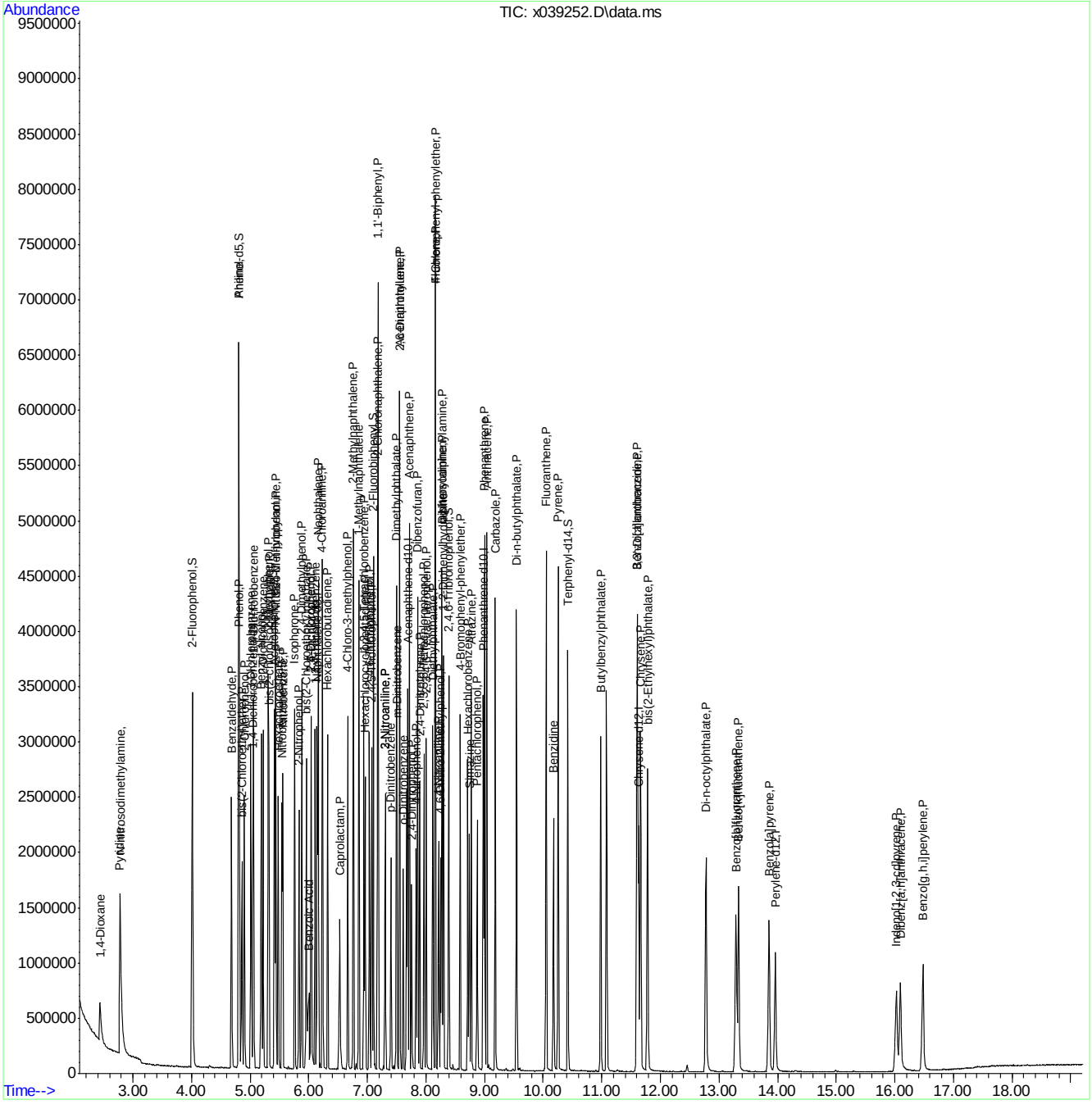
7.6.37

7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\sx1826\
Data File : x039252.D
Acq On : 30 Mar 2015 4:19 pm
Operator : nareshj
Sample : icc1826-50
Misc : op55392,sx1826,1000,,,1,1,water
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Mar 31 09:18:02 2015
Quant Method : C:\msdchem\1\METHODS\8270d_0330.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Tue Mar 31 09:17:18 2015
Response via : Initial Calibration



ACCUTEST LABORATORIES FA23258

Manual Integration Approval Summary

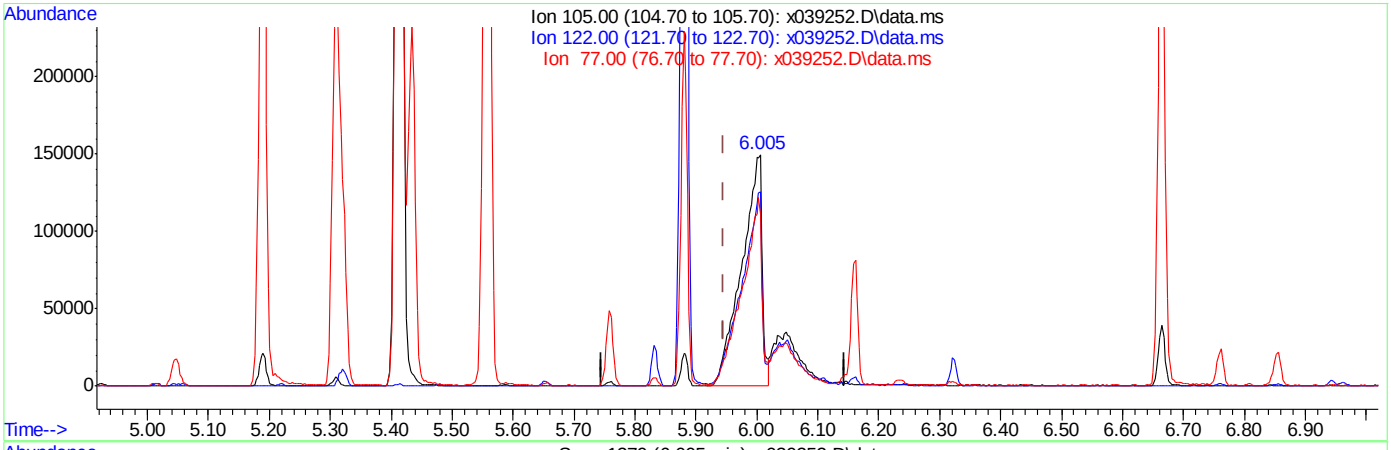
Sample Number:	SX1826-ICC1826	**Method:**	SW846 8270D
Lab FileID:	X039252.D	**Analyst approved:**	03/31/15 11:22 Martha Valls
Injection Time:	03/30/15 16:19	**Supervisor approved:**	03/31/15 15:24 Mike Eger

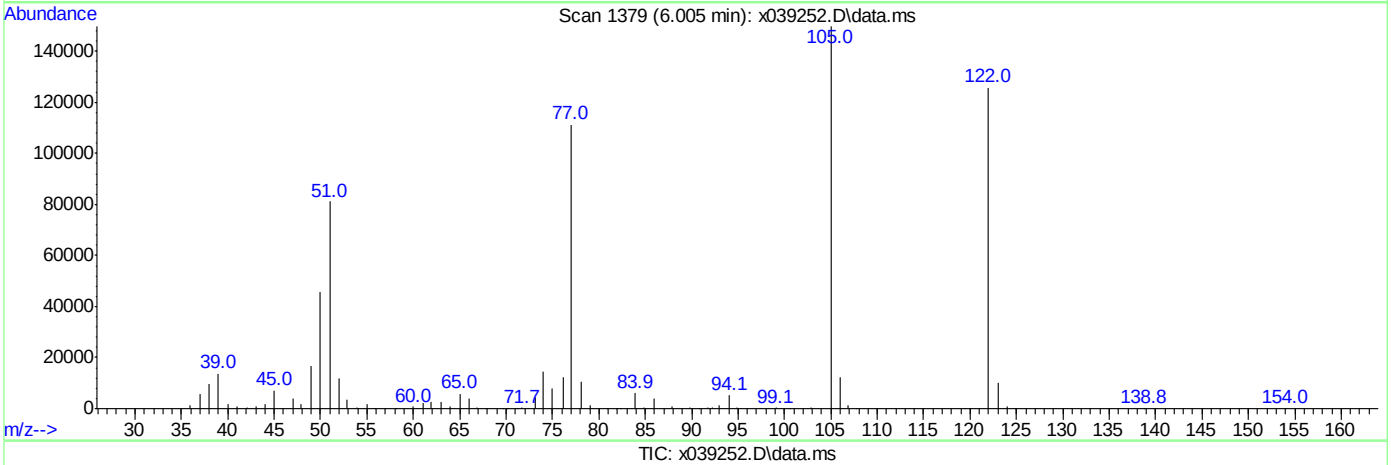
Parameter	CAS	Sig#	R.T. (min.)	Reason
Benzoic Acid	65-85-0		6.01	Split peak

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\sx1826\
Data File : x039252.D
Acq On : 30 Mar 2015 4:19 pm
Operator : nareshj
Sample : icc1826-50
Misc : op55392,sx1826,1000,,,1,1,water
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Mar 31 09:17:21 2015
Quant Method : C:\msdchem\1\METHODS\8270d_0330.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Tue Mar 31 09:17:18 2015
Response via : Initial Calibration





TIC: x039252.D\data.ms

(29) Benzoic Acid

6.005min (+0.060) 45.19ppm

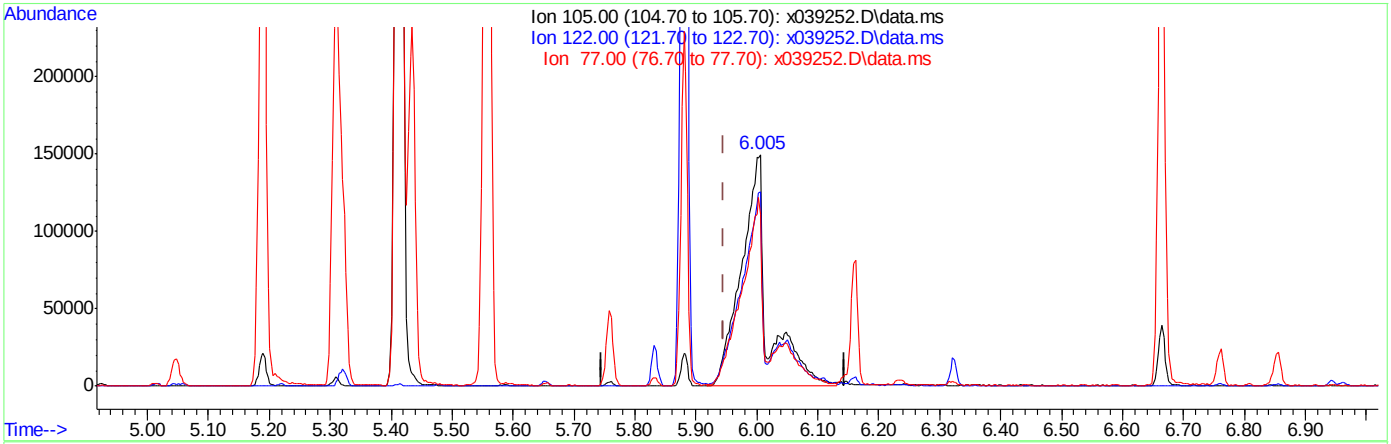
response 347298

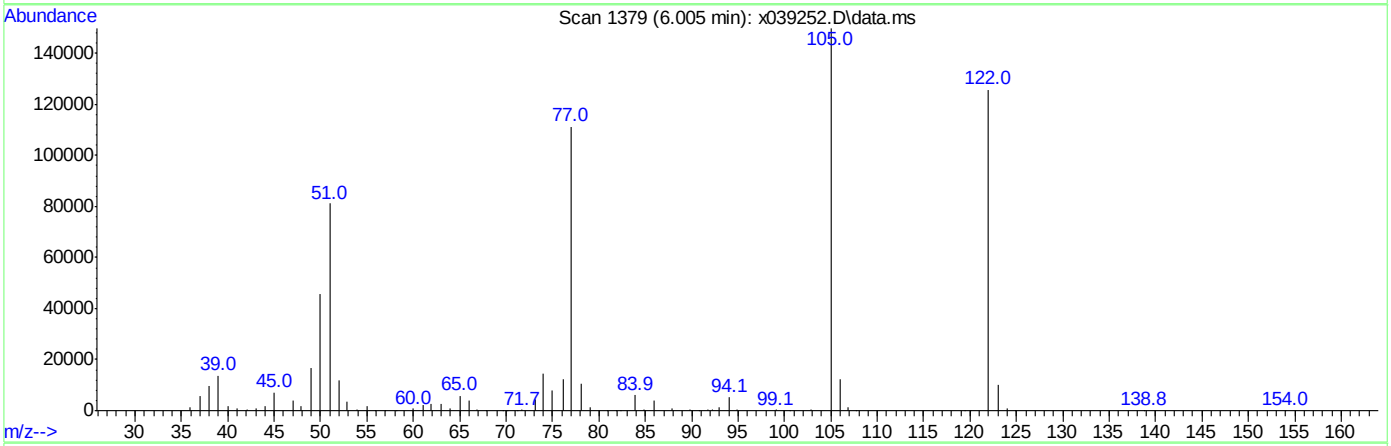
Ion	Exp%	Act%
105.00	100	100
122.00	71.80	83.43
77.00	80.10	73.29
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\sx1826\
Data File : x039252.D
Acq On : 30 Mar 2015 4:19 pm
Operator : nareshj
Sample : icc1826-50
Misc : op55392,sx1826,1000,,,1,1,water
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Mar 31 09:17:21 2015
Quant Method : C:\msdchem\1\METHODS\8270d_0330.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Tue Mar 31 09:17:18 2015
Response via : Initial Calibration





(29) Benzoic Acid

6.005min (+0.060) 59.35ppm m

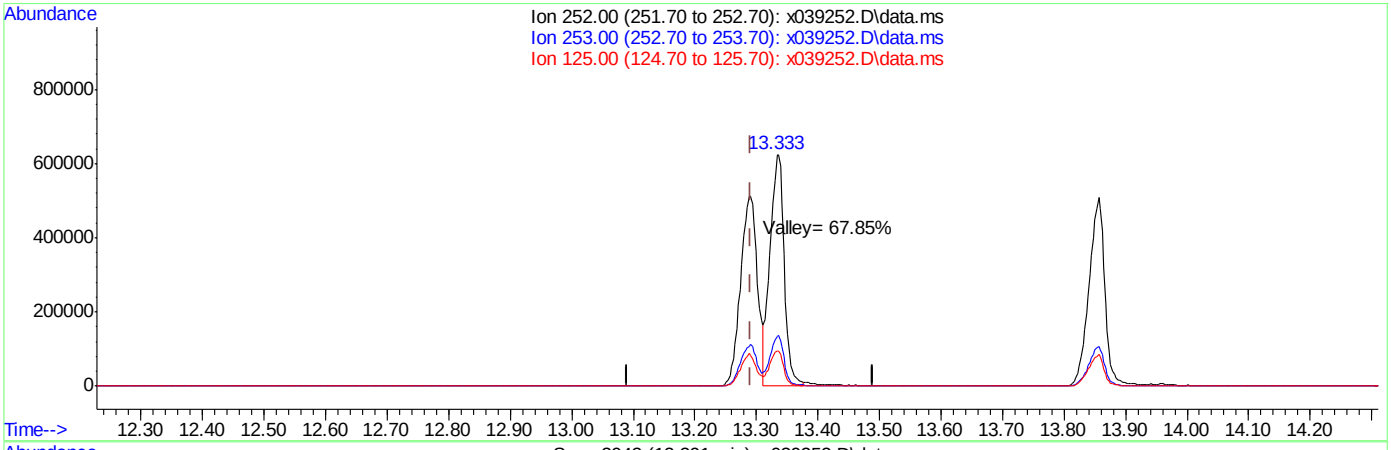
response 456172

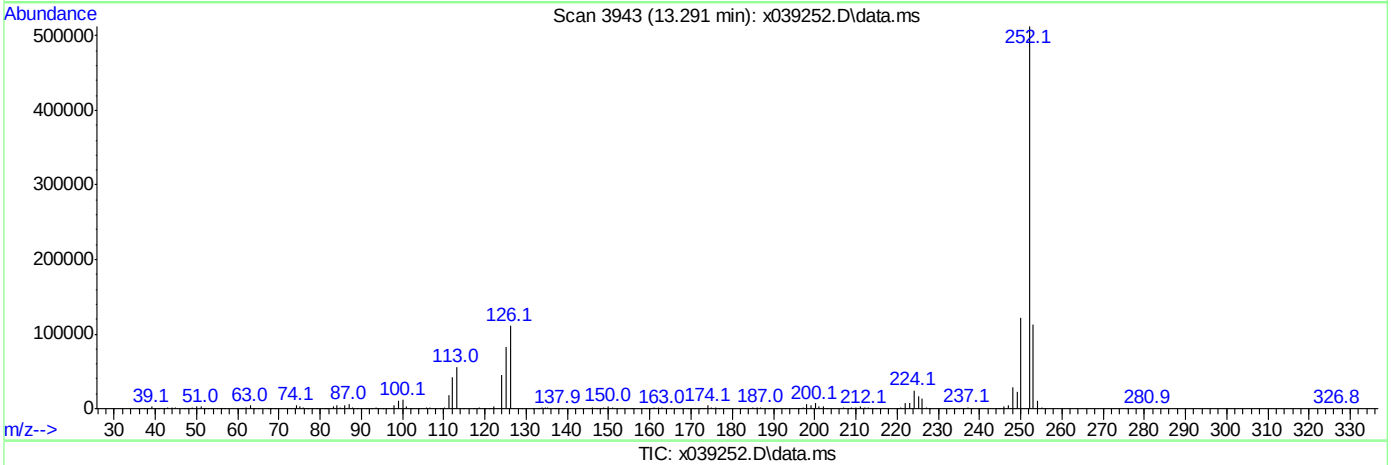
Ion	Exp%	Act%
105.00	100	100
122.00	71.80	83.87
77.00	80.10	74.21
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\sx1826\
Data File : x039252.D
Acq On : 30 Mar 2015 4:19 pm
Operator : nareshj
Sample : icc1826-50
Misc : op55392,sx1826,1000,,,1,1,water
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Mar 31 09:18:02 2015
Quant Method : C:\msdchem\1\METHODS\8270d_0330.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Tue Mar 31 09:17:18 2015
Response via : Initial Calibration





TIC: x039252.D\data.ms

(94) Benzo[b]fluoranthene (P)

13.291min (0.000) 51.36ppm

response 979594

Ion	Exp%	Act%
252.00	100	100
253.00	22.00	22.02
125.00	12.20	16.37
0.00	0.00	0.00

Manual Integrations APPROVED (compounds with "m" flag)
Mike Eger
03/31/15 15:24

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\sx1826\
Data File : x039253.D
Acq On : 30 Mar 2015 4:43 pm
Operator : nareshj
Sample : ic1826-60
Misc : op55392,sx1826,1000,,,1,1,water
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Mar 31 09:21:25 2015
Quant Method : C:\msdchem\1\METHODS\8270d_0330.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Fri Mar 27 11:06:47 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	5.045	152	302313	40.00	ppm	0.00
22) Naphthalene-d8	6.144	136	1158535	40.00	ppm	0.00
41) Acenaphthene-d10	7.690	164	618489	40.00	ppm	0.00
67) Phenanthrene-d10	8.977	188	978604	40.00	ppm	0.00
83) Chrysene-d12	11.626	240	844565	40.00	ppm	0.00
92) Perylene-d12	13.964	264	573628	40.00	ppm	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	4.011	112	1484689	139.59	ppm	0.00
Spiked Amount 100.000	Range 14 - 67		Recovery = 139.59%#			
9) Phenol-d5	4.809	99	1487096	124.95	ppm	0.00
Spiked Amount 100.000	Range 10 - 50		Recovery = 124.95%#			
23) Nitrobenzene-d5	5.545	82	843105	69.49	ppm	0.00
Spiked Amount 50.000	Range 42 - 108		Recovery = 138.98%#			
45) 2-Fluorobiphenyl	7.102	172	1432362	68.20	ppm	0.00
Spiked Amount 50.000	Range 40 - 106		Recovery = 136.40%#			
72) 2,4,6-Tribromophenol	8.392	330	337963	148.65	ppm	0.00
Spiked Amount 100.000	Range 33 - 118		Recovery = 148.65%#			
86) Terphenyl-d14	10.421	244	1393012	70.76	ppm	0.00
Spiked Amount 50.000	Range 39 - 121		Recovery = 141.52%#			
Target Compounds						Qvalue
2) 1,4-Dioxane	2.431	88	338676	69.30	ppm	75
3) N-nitrosodimethylamine	2.780	42	480368	80.41	ppm	94
4) Pyridine	2.769	79	891775	75.22	ppm	100
6) Benzaldehyde	4.681	106	438384	53.26	ppm	97
7) Aniline	4.806	93	1086135	72.06	ppm	84
8) bis(2-Chloroethyl)ether	4.860	93	724306	71.83	ppm	88
10) Phenol	4.820	94	984064	71.37	ppm	98
11) 2-Chlorophenol	4.900	128	801416	71.32	ppm	93
12) 1,3-Dichlorobenzene	5.014	146	871920	71.95	ppm	98
13) 1,4-Dichlorobenzene	5.059	146	859010	70.96	ppm	98
14) 1,2-Dichlorobenzene	5.218	146	825150	71.53	ppm	97
15) Benzyl alcohol	5.193	108	516832	70.97	ppm	91
16) 2-Methylphenol	5.312	108	694608	72.29	ppm	96
17) bis(2-chloroisopropyl)...	5.320	45	1167621	70.25	ppm	91
18) Acetophenone	5.414	105	863555	58.39	ppm	96
19) N-Nitroso-di-n-propyla...	5.446	70	422474	80.41	ppm	92
20) 3&4-Methylphenol	5.437	108	730199	72.18	ppm	97
21) Hexachloroethane	5.480	117	349684	71.03	ppm	85
24) Nitrobenzene	5.559	77	803299	70.75	ppm	93
25) Isophorone	5.761	82	1429950	69.33	ppm	96
26) 2-Nitrophenol	5.835	139	426803	69.28	ppm	87
27) 2,4-Dimethylphenol	5.883	107	754750	71.43	ppm	95
28) bis(2-Chloroethoxy)met...	5.960	93	814255	69.67	ppm	95
29) Benzoic Acid	6.022	105	622010m	80.90	ppm	
30) 2,4-Dichlorophenol	6.042	162	610817	68.91	ppm	97
31) 1,2,4-Trichlorobenzene	6.110	180	632021	68.89	ppm	94
32) Naphthalene	6.162	128	1978107	67.36	ppm	99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\sx1826\
Data File : x039253.D
Acq On : 30 Mar 2015 4:43 pm
Operator : nareshj
Sample : ic1826-60
Misc : op55392,sx1826,1000,,,1,1,water
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Mar 31 09:21:25 2015
Quant Method : C:\msdchem\1\METHODS\8270d_0330.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Fri Mar 27 11:06:47 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
33) 4-Chloroaniline	6.233	127	943361	70.81	ppm		97
34) 2,6-Dichlorophenol	6.042	162	610817	68.91	ppm		92
35) Hexachlorobutadiene	6.324	225	355604	69.29	ppm		97
36) Caprolactam	6.539	113	208180m	58.92	ppm		
37) 4-Chloro-3-methylphenol	6.667	107	670137	71.64	ppm		95
38) 2-Methylnaphthalene	6.761	142	1441394	68.67	ppm		98
39) 1-Methylnaphthalene	6.858	142	1268146	68.41	ppm		98
40) 1,2,4,5-Tetrachloroben...	6.946	216	633904	70.59	ppm		98
42) Hexachlorocyclopentadiene	6.963	237	424252	79.71	ppm		97
43) 2,4,6-Trichlorophenol	7.037	196	422573	72.64	ppm		99
44) 2,4,5-Trichlorophenol	7.074	196	443121	70.91	ppm		98
46) 1,1'-Biphenyl	7.179	154	1369419	57.96	ppm		92
47) 2-Chloronaphthalene	7.187	162	1251462	70.66	ppm		97
48) 2-Nitroaniline	7.307	65	482346	73.62	ppm		95
49) p-Dinitrobenzene	7.403	75	303664	76.28	ppm		91
50) Dimethylphthalate	7.497	163	1425718	70.23	ppm		99
51) m-Dinitrobenzene	7.506	168	254704	73.75	ppm	#	56
52) 2,6-Dinitrotoluene	7.554	165	337952	70.98	ppm		97
53) o-Dinitrobenzene	7.614	50	296177	74.14	ppm		91
54) Acenaphthylene	7.557	152	1956491	69.73	ppm		93
55) 3-Nitroaniline	7.307	138	496326	72.82	ppm	#	58
56) Acenaphthene	7.719	153	1281979	70.98	ppm	#	1
57) 2,4-Dinitrophenol	7.758	184	215319	112.74	ppm		96
58) 4-Nitrophenol	7.835	109	240962	85.66	ppm	#	80
59) Dibenzofuran	7.858	168	1754885	69.93	ppm		95
60) 2,4-Dinitrotoluene	7.895	165	480875	75.20	ppm		96
61) 2,3,5,6-Tetrachlorophenol	7.969	232	361646	74.55	ppm		95
62) 2,3,4,6-Tetrachlorophenol	8.008	232	358489	75.02	ppm		95
63) Diethylphthalate	8.119	149	1479666	71.26	ppm		97
64) Fluorene	8.159	166	1476414	71.42	ppm		98
65) 4-Chlorophenyl-phenyle...	8.162	204	692087	72.98	ppm		97
66) 4-Nitroaniline	8.222	138	401818	85.80	ppm		86
68) 4,6-Dinitro-2-methylph...	8.256	198	280989	89.46	ppm	#	33
69) Diphenylamine	8.276	169	1261972	70.44	ppm		96
70) n-Nitrosodiphenylamine	8.276	169	1261972	84.53	ppm		91
71) 1,2-Diphenylhydrazine	8.298	77	1469145	67.99	ppm		97
73) 4-Bromophenyl-phenylether	8.585	248	376900	72.43	ppm		91
74) Hexachlorobenzene	8.716	284	349984	70.24	ppm		94
75) Simazine	8.747	201	219746	148.72	ppm		99
76) Atrazine	8.779	200	342855	56.18	ppm		83
77) Pentachlorophenol	8.875	266	247911	81.77	ppm		99
78) Phenanthrene	9.000	178	1974689	69.75	ppm		95
79) Anthracene	9.040	178	1943592	69.23	ppm		93
80) Carbazole	9.188	167	1884720	74.30	ppm		95
81) Di-n-butylphthalate	9.546	149	2249772	66.82	ppm		96
82) Fluoranthene	10.051	202	2085975	71.85	ppm		92
84) Benzidine	10.177	184	954696	90.70	ppm		99
85) Pyrene	10.256	202	2122723	68.59	ppm		91
87) Butylbenzylphthalate	10.981	149	1031610	69.40	ppm		95
88) 3,3'-Dichlorobenzidine	11.606	252	552229	83.07	ppm		98

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\sx1826\
Data File : x039253.D
Acq On : 30 Mar 2015 4:43 pm
Operator : nareshj
Sample : ic1826-60
Misc : op55392,sx1826,1000,,,1,1,water
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Mar 31 09:21:25 2015
Quant Method : C:\msdchem\1\METHODS\8270d_0330.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Fri Mar 27 11:06:47 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
89) Benzo[a]anthracene	11.603	228	1778715	74.36	ppm	96
90) Chrysene	11.665	228	1677204	74.58	ppm	97
91) bis(2-Ethylhexyl)phtha...	11.782	149	1387474	69.38	ppm	97
93) Di-n-octylphthalate	12.776	149	2139057	71.43	ppm	96
94) Benzo[b]fluoranthene	13.294	252	1382170	74.45	ppm	97
95) Benzo[k]fluoranthene	13.342	252	1398817	78.39	ppm	98
96) Benzo[a]pyrene	13.862	252	1280914	77.51	ppm	97
97) Indeno[1,2,3-cd]pyrene	16.036	276	870178	80.10	ppm	96
98) Dibenz[a,h]anthracene	16.104	278	803583	79.56	ppm	96
99) Benzo[g,h,i]perylene	16.490	276	986875	80.53	ppm	93

(#) = qualifier out of range (m) = manual integration (+) = signals summed

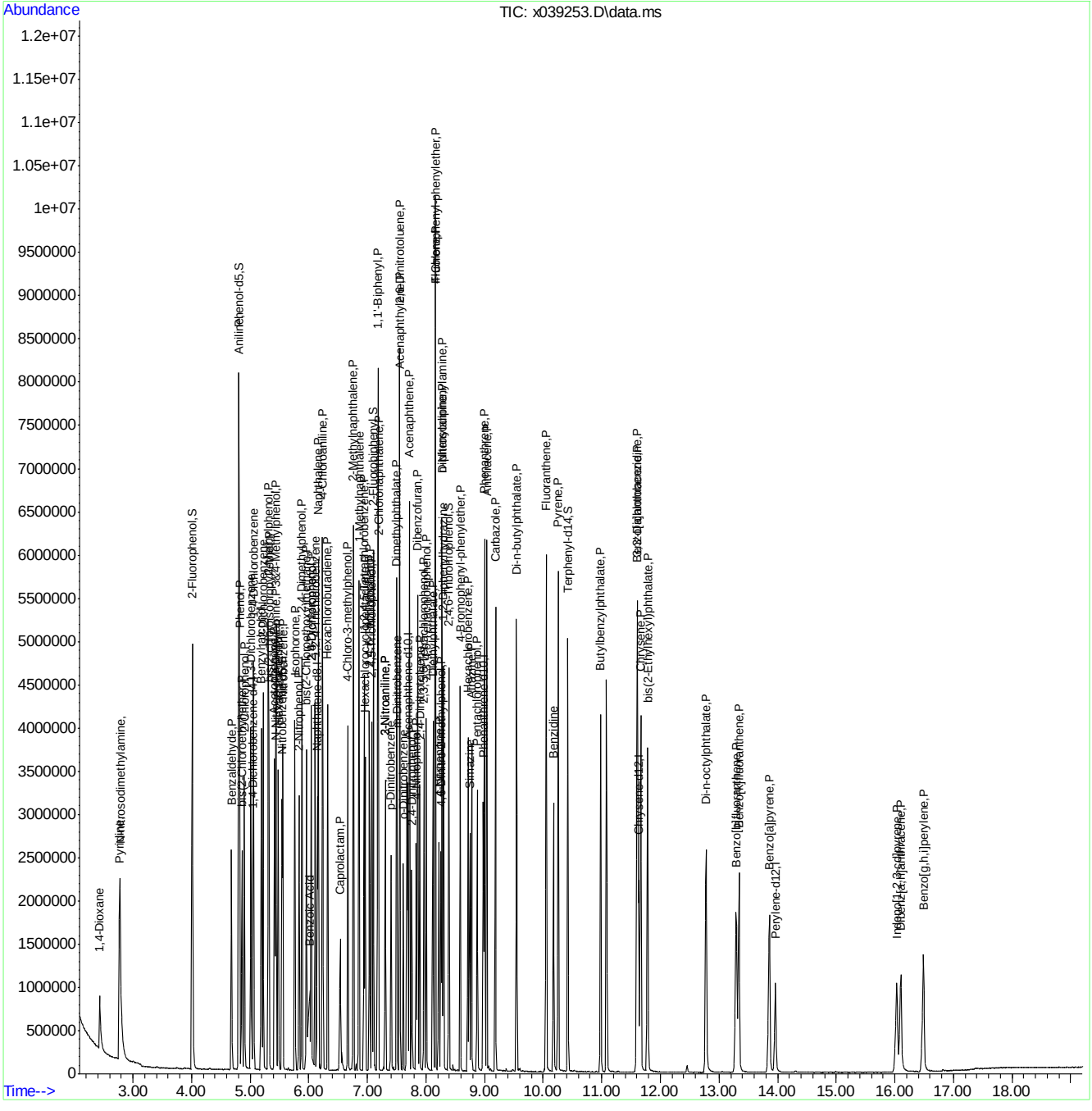
7.6.38

7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\sx1826\
Data File : x039253.D
Acq On : 30 Mar 2015 4:43 pm
Operator : nareshj
Sample : ic1826-60
Misc : op55392,sx1826,1000,,,1,1,water
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Mar 31 09:21:25 2015
Quant Method : C:\msdchem\1\METHODS\8270d_0330.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Fri Mar 27 11:06:47 2015
Response via : Initial Calibration



ACCUTEST LABORATORIES FA23258

Manual Integration Approval Summary

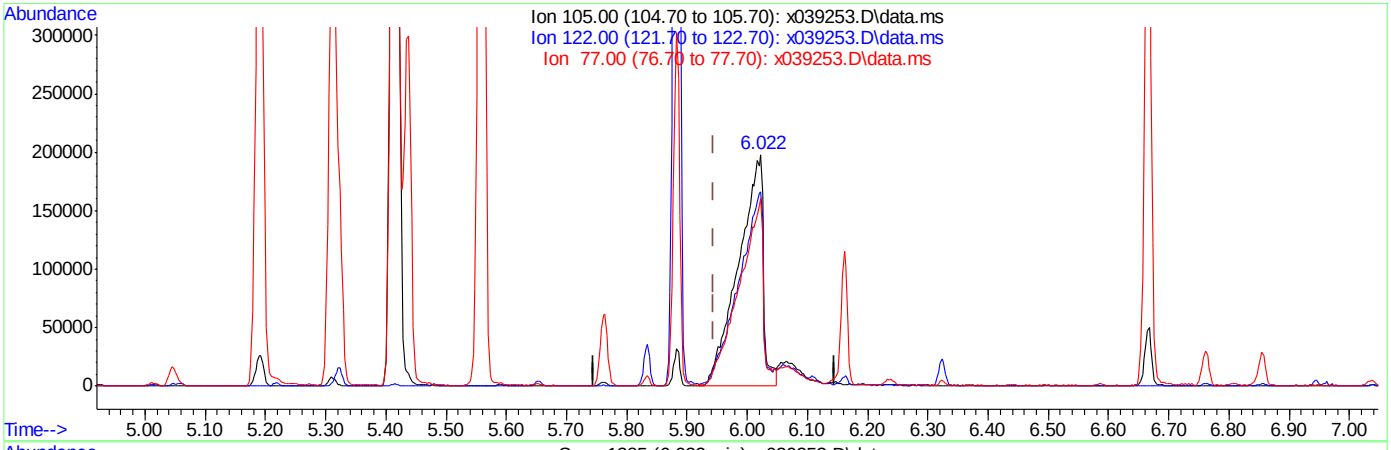
Sample Number:	SX1826-IC1826	**Method:**	SW846 8270D
Lab FileID:	X039253.D	**Analyst approved:**	03/31/15 11:22 Martha Valls
Injection Time:	03/30/15 16:43	**Supervisor approved:**	03/31/15 15:24 Mike Eger

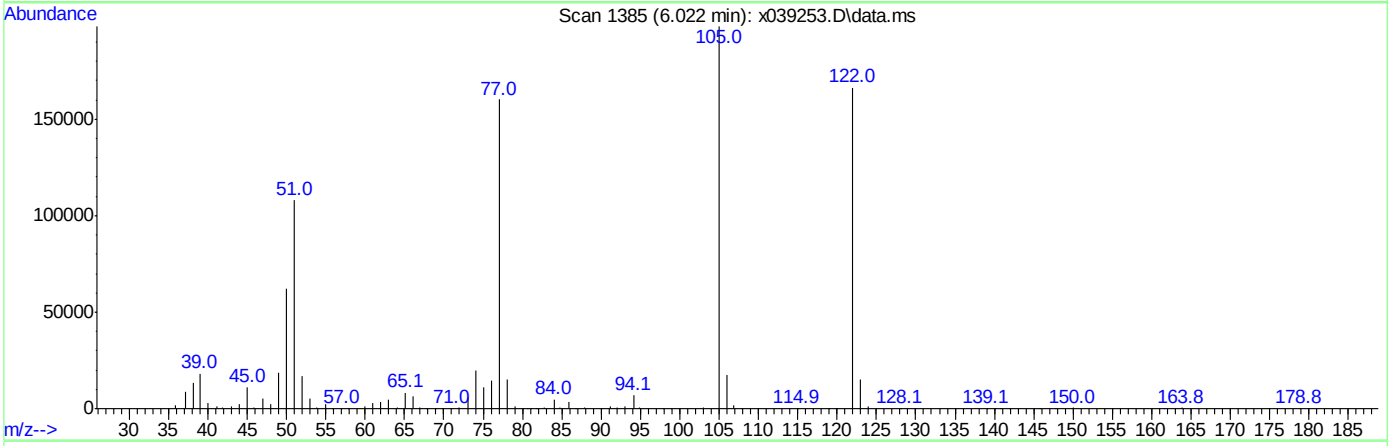
Parameter	CAS	Sig#	R.T. (min.)	Reason
Benzoic Acid	65-85-0		6.02	Split peak
Caprolactam	105-60-2		6.54	Split peak

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\sx1826\
Data File : x039253.D
Acq On : 30 Mar 2015 4:43 pm
Operator : nareshj
Sample : ic1826-60
Misc : op55392,sx1826,1000,,,1,1,water
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Mar 31 09:21:00 2015
Quant Method : C:\msdchem\1\METHODS\8270d_0330.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Fri Mar 27 11:06:47 2015
Response via : Initial Calibration





TIC: x039253.D\data.ms

(29) Benzoic Acid

6.022min (+0.077) 73.38ppm

response 564205

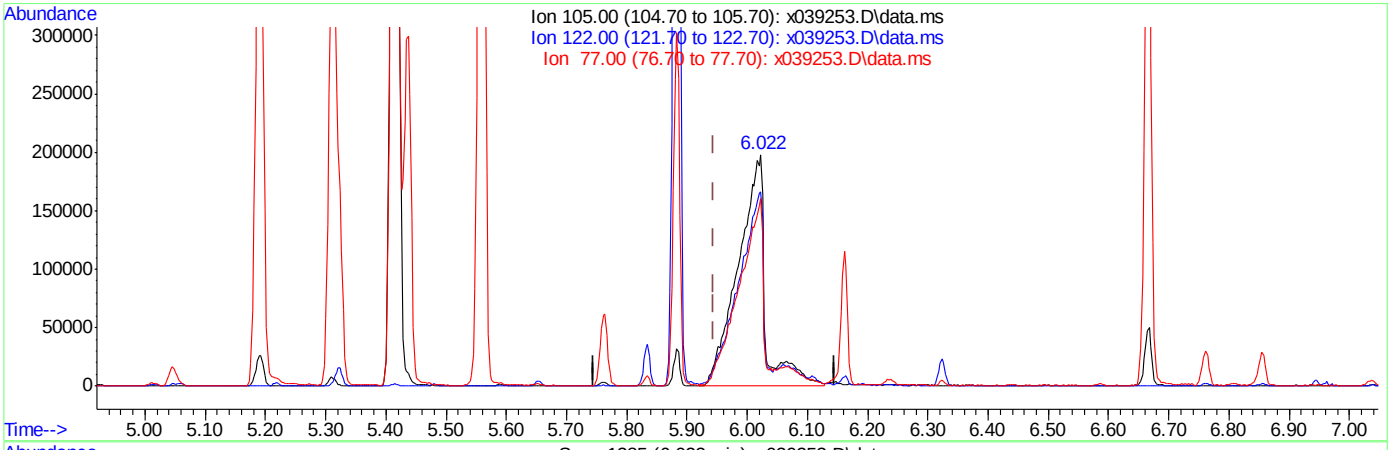
Ion	Exp%	Act%
105.00	100	100
122.00	71.80	83.20
77.00	80.10	80.07
0.00	0.00	0.00

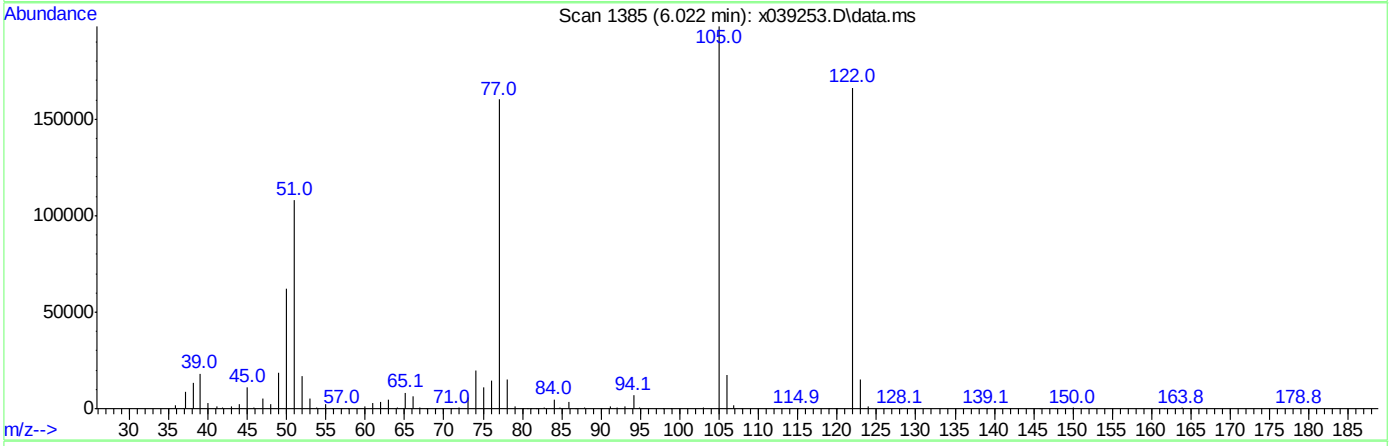
ACCUTEST LABORATORIES FA23258

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\sx1826\
Data File : x039253.D
Acq On : 30 Mar 2015 4:43 pm
Operator : nareshj
Sample : ic1826-60
Misc : op55392,sx1826,1000,,,1,1,water
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Mar 31 09:21:00 2015
Quant Method : C:\msdchem\1\METHODS\8270d_0330.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Fri Mar 27 11:06:47 2015
Response via : Initial Calibration





TIC: x039253.D\data.ms

(29) Benzoic Acid

6.022min (+0.077) 80.90ppm m

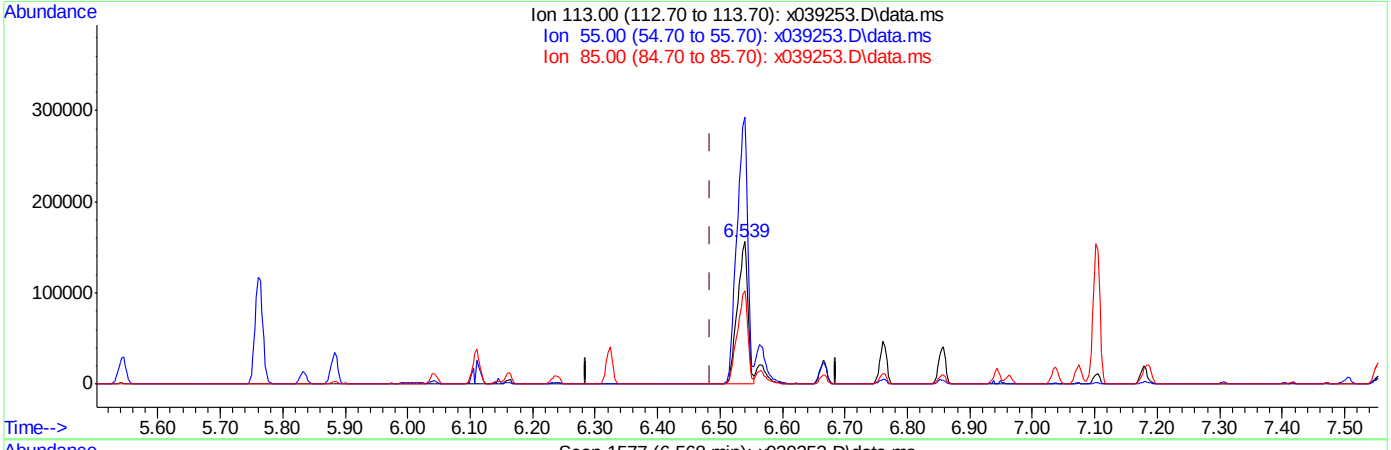
response 622010

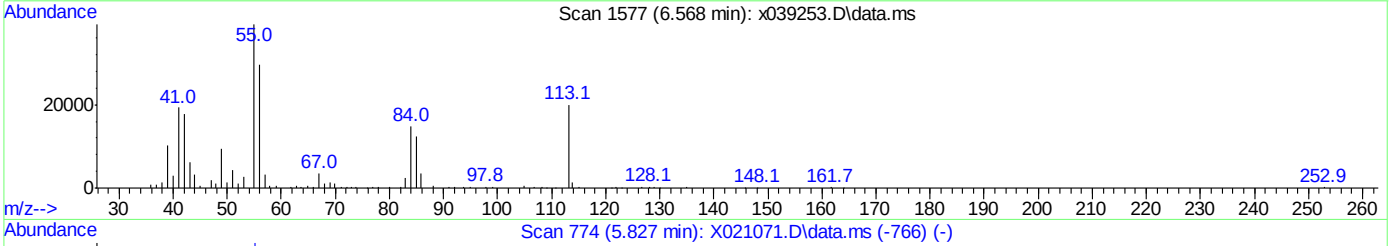
Ion	Exp%	Act%
105.00	100	100
122.00	71.80	83.97
77.00	80.10	80.94
0.00	0.00	0.00

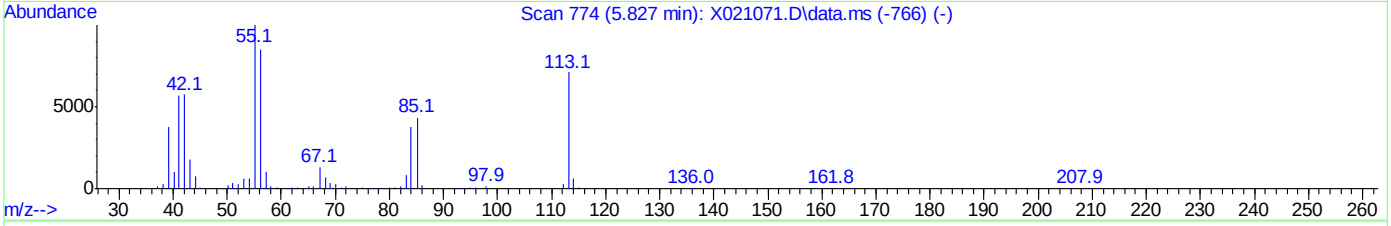
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\sx1826\
Data File : x039253.D
Acq On : 30 Mar 2015 4:43 pm
Operator : nareshj
Sample : ic1826-60
Misc : op55392,sx1826,1000,,,1,1,water
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Mar 31 09:21:00 2015
Quant Method : C:\msdchem\1\METHODS\8270d_0330.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Fri Mar 27 11:06:47 2015
Response via : Initial Calibration







TIC: x039253.D\data.ms

(36) Caprolactam (P)

6.539min (+0.054) 51.59ppm

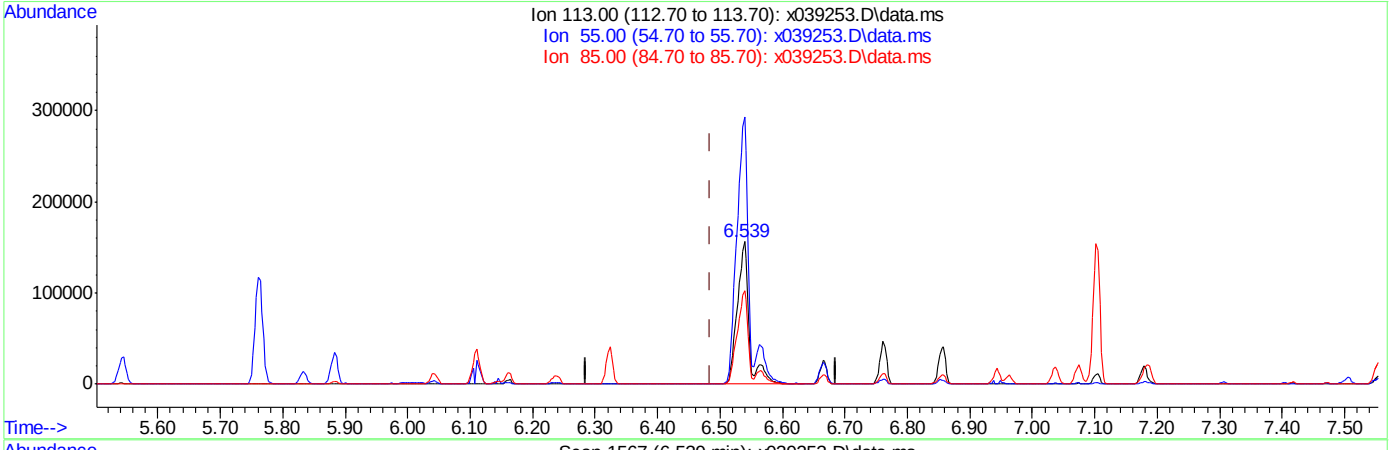
response 182275

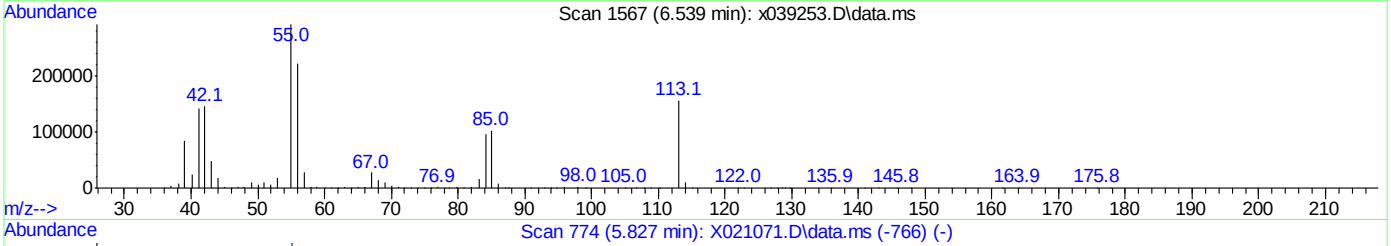
Ion	Exp%	Act%
113.00	100	100
55.00	140.60	186.27#
85.00	61.10	65.54
0.00	0.00	0.00

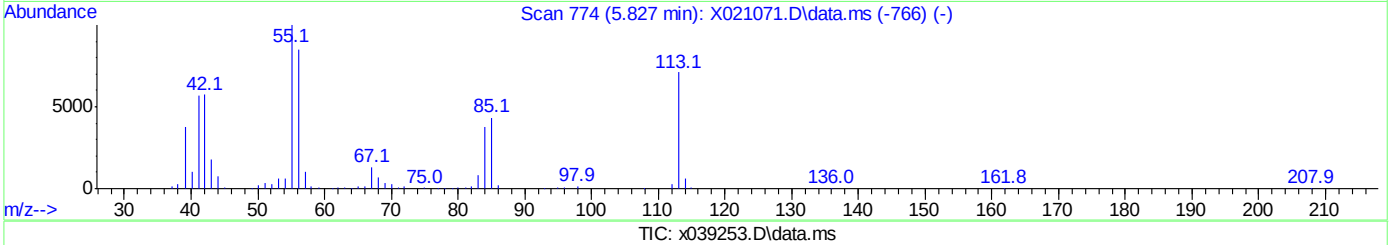
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\sx1826\
Data File : x039253.D
Acq On : 30 Mar 2015 4:43 pm
Operator : nareshj
Sample : ic1826-60
Misc : op55392,sx1826,1000,,,1,1,water
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Mar 31 09:21:00 2015
Quant Method : C:\msdchem\1\METHODS\8270d_0330.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Fri Mar 27 11:06:47 2015
Response via : Initial Calibration







TIC: x039253.D\data.ms

(36) Caprolactam (P)

6.539min (+0.054) 58.92ppm m

response 208180

Ion	Exp%	Act%
113.00	100	100
55.00	140.60	187.12#
85.00	61.10	65.54
0.00	0.00	0.00

Manual Integrations APPROVED (compounds with "m" flag)
Mike Eger
03/31/15 15:24

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\sx1826\
Data File : x039254.D
Acq On : 30 Mar 2015 5:08 pm
Operator : nareshj
Sample : ic1826-75
Misc : op55392,sx1826,1000,,,1,1,water
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Mar 31 09:22:15 2015
Quant Method : C:\msdchem\1\METHODS\8270d_0330.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Fri Mar 27 11:06:47 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	5.045	152	296007	40.00	ppm	0.00
22) Naphthalene-d8	6.144	136	1169028	40.00	ppm	0.00
41) Acenaphthene-d10	7.690	164	643453	40.00	ppm	0.00
67) Phenanthrene-d10	8.977	188	1001306	40.00	ppm	0.00
83) Chrysene-d12	11.626	240	861497	40.00	ppm	0.00
92) Perylene-d12	13.964	264	584364	40.00	ppm	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	4.010	112	1576051	151.34	ppm	0.00
Spiked Amount 100.000	Range 14 - 67		Recovery = 151.34%#			
9) Phenol-d5	4.812	99	1548168	132.85	ppm	0.01
Spiked Amount 100.000	Range 10 - 50		Recovery = 132.85%#			
23) Nitrobenzene-d5	5.545	82	900619	73.57	ppm	0.00
Spiked Amount 50.000	Range 42 - 108		Recovery = 147.14%#			
45) 2-Fluorobiphenyl	7.105	172	1529700	70.00	ppm	0.00
Spiked Amount 50.000	Range 40 - 106		Recovery = 140.00%#			
72) 2,4,6-Tribromophenol	8.392	330	365519	157.13	ppm	0.00
Spiked Amount 100.000	Range 33 - 118		Recovery = 157.13%#			
86) Terphenyl-d14	10.421	244	1505643	74.97	ppm	0.00
Spiked Amount 50.000	Range 39 - 121		Recovery = 149.94%#			
Target Compounds						Qvalue
2) 1,4-Dioxane	2.433	88	362128	75.68	ppm	76
3) N-nitrosodimethylamine	2.783	42	510829	87.33	ppm	94
4) Pyridine	2.772	79	942200	81.16	ppm	98
6) Benzaldehyde	4.681	106	508048	63.04	ppm	98
7) Aniline	4.806	93	1135300	76.92	ppm	84
8) bis(2-Chloroethyl)ether	4.860	93	759011	76.87	ppm	87
10) Phenol	4.820	94	1026108	76.01	ppm	96
11) 2-Chlorophenol	4.903	128	854833	77.70	ppm	97
12) 1,3-Dichlorobenzene	5.013	146	882027	74.33	ppm	96
13) 1,4-Dichlorobenzene	5.059	146	888237	74.93	ppm	96
14) 1,2-Dichlorobenzene	5.218	146	857509	75.92	ppm	97
15) Benzyl alcohol	5.192	108	545960	76.56	ppm	95
16) 2-Methylphenol	5.312	108	734832	78.11	ppm	96
17) bis(2-chloroisopropyl)...	5.323	45	1203174	73.93	ppm	91
18) Acetophenone	5.417	105	1087996	75.14	ppm	96
19) N-Nitroso-di-n-propyla...	5.445	70	455474	88.54	ppm	91
20) 3&4-Methylphenol	5.437	108	762219	76.95	ppm	98
21) Hexachloroethane	5.479	117	371303	77.03	ppm	86
24) Nitrobenzene	5.562	77	837591	73.11	ppm	90
25) Isophorone	5.764	82	1528958	73.47	ppm	96
26) 2-Nitrophenol	5.835	139	452496	72.80	ppm	94
27) 2,4-Dimethylphenol	5.883	107	797308	74.78	ppm	93
28) bis(2-Chloroethoxy)met...	5.960	93	870972	73.86	ppm	94
29) Benzoic Acid	6.025	105	670673m	86.44	ppm	
30) 2,4-Dichlorophenol	6.042	162	646606	72.30	ppm	95
31) 1,2,4-Trichlorobenzene	6.110	180	664352	71.77	ppm	97
32) Naphthalene	6.161	128	2047147	69.09	ppm	100

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\sx1826\
Data File : x039254.D
Acq On : 30 Mar 2015 5:08 pm
Operator : nareshj
Sample : ic1826-75
Misc : op55392,sx1826,1000,,,1,1,water
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Mar 31 09:22:15 2015
Quant Method : C:\msdchem\1\METHODS\8270d_0330.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Fri Mar 27 11:06:47 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
33) 4-Chloroaniline	6.232	127	1009536	75.10	ppm		99
34) 2,6-Dichlorophenol	6.042	162	646606	72.30	ppm		90
35) Hexachlorobutadiene	6.323	225	386706	74.67	ppm		96
36) Caprolactam	6.548	113	265341m	74.42	ppm		
37) 4-Chloro-3-methylphenol	6.667	107	701369	74.30	ppm		97
38) 2-Methylnaphthalene	6.761	142	1505540	71.09	ppm		99
39) 1-Methylnaphthalene	6.858	142	1369277	73.20	ppm		97
40) 1,2,4,5-Tetrachloroben...	6.946	216	660656	72.91	ppm		98
42) Hexachlorocyclopentadiene	6.963	237	452521	81.73	ppm		97
43) 2,4,6-Trichlorophenol	7.037	196	449112	74.21	ppm		100
44) 2,4,5-Trichlorophenol	7.076	196	472593	72.69	ppm		98
46) 1,1'-Biphenyl	7.179	154	1657503	67.43	ppm		88
47) 2-Chloronaphthalene	7.187	162	1318918	71.58	ppm		96
48) 2-Nitroaniline	7.307	65	524351	76.93	ppm		94
49) p-Dinitrobenzene	7.403	75	328264	79.26	ppm		90
50) Dimethylphthalate	7.500	163	1536892	72.77	ppm		98
51) m-Dinitrobenzene	7.508	168	276272	76.90	ppm	#	42
52) 2,6-Dinitrotoluene	7.554	165	371663	75.03	ppm		95
53) o-Dinitrobenzene	7.616	50	317196	76.32	ppm		95
54) Acenaphthylene	7.557	152	2066670	70.80	ppm		93
55) 3-Nitroaniline	7.307	138	538025	75.88	ppm	#	59
56) Acenaphthene	7.719	153	1350748	71.89	ppm	#	1
57) 2,4-Dinitrophenol	7.761	184	234998	118.27	ppm		93
58) 4-Nitrophenol	7.835	109	250497	85.59	ppm	#	62
59) Dibenzofuran	7.858	168	1857617	71.15	ppm		97
60) 2,4-Dinitrotoluene	7.895	165	505726	76.02	ppm		95
61) 2,3,5,6-Tetrachlorophenol	7.969	232	398035	78.87	ppm		93
62) 2,3,4,6-Tetrachlorophenol	8.008	232	383360	77.11	ppm		97
63) Diethylphthalate	8.119	149	1599376	74.04	ppm		96
64) Fluorene	8.159	166	1558625	72.47	ppm		98
65) 4-Chlorophenyl-phenyle...	8.162	204	721863	73.16	ppm		95
66) 4-Nitroaniline	8.224	138	426935	87.62	ppm		87
68) 4,6-Dinitro-2-methylph...	8.256	198	303953	94.58	ppm		84
69) Diphenylamine	8.275	169	1352177	73.76	ppm		98
70) n-Nitrosodiphenylamine	8.275	169	1352177	88.52	ppm		92
71) 1,2-Diphenylhydrazine	8.298	77	1576485	71.30	ppm		98
73) 4-Bromophenyl-phenylether	8.585	248	398051	74.76	ppm		90
74) Hexachlorobenzene	8.716	284	391093	76.71	ppm		96
75) Simazine	8.750	201	238504	157.75	ppm		94
76) Atrazine	8.781	200	443265	70.98	ppm		82
77) Pentachlorophenol	8.875	266	265039	85.44	ppm		100
78) Phenanthrene	9.000	178	2059674	71.10	ppm		93
79) Anthracene	9.040	178	2053330	71.48	ppm		93
80) Carbazole	9.188	167	1977913	76.21	ppm		94
81) Di-n-butylphthalate	9.546	149	2373046	68.88	ppm		96
82) Fluoranthene	10.051	202	2199788	74.05	ppm		91
84) Benzidine	10.174	184	932202	86.82	ppm		99
85) Pyrene	10.256	202	2239463	70.94	ppm		90
87) Butylbenzylphthalate	10.980	149	1102409	72.71	ppm		94
88) 3,3'-Dichlorobenzidine	11.606	252	584340	86.18	ppm		99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\sx1826\
Data File : x039254.D
Acq On : 30 Mar 2015 5:08 pm
Operator : nareshj
Sample : ic1826-75
Misc : op55392,sx1826,1000,,,1,1,water
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Mar 31 09:22:15 2015
Quant Method : C:\msdchem\1\METHODS\8270d_0330.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Fri Mar 27 11:06:47 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
89) Benzo[a]anthracene	11.603	228	1883295	77.18	ppm	95
90) Chrysene	11.665	228	1790367	78.05	ppm	98
91) bis(2-Ethylhexyl)phtha...	11.782	149	1480600	72.58	ppm	96
93) Di-n-octylphthalate	12.779	149	2262707	74.17	ppm	96
94) Benzo[b]fluoranthene	13.293	252	1447102	76.52	ppm	98
95) Benzo[k]fluoranthene	13.342	252	1462272	80.44	ppm	96
96) Benzo[a]pyrene	13.862	252	1364959	81.08	ppm	97
97) Indeno[1,2,3-cd]pyrene	16.038	276	936915	84.66	ppm	95
98) Dibenz[a,h]anthracene	16.106	278	892438	86.74	ppm	95
99) Benzo[g,h,i]perylene	16.496	276	1066443	85.43	ppm	94

(#) = qualifier out of range (m) = manual integration (+) = signals summed

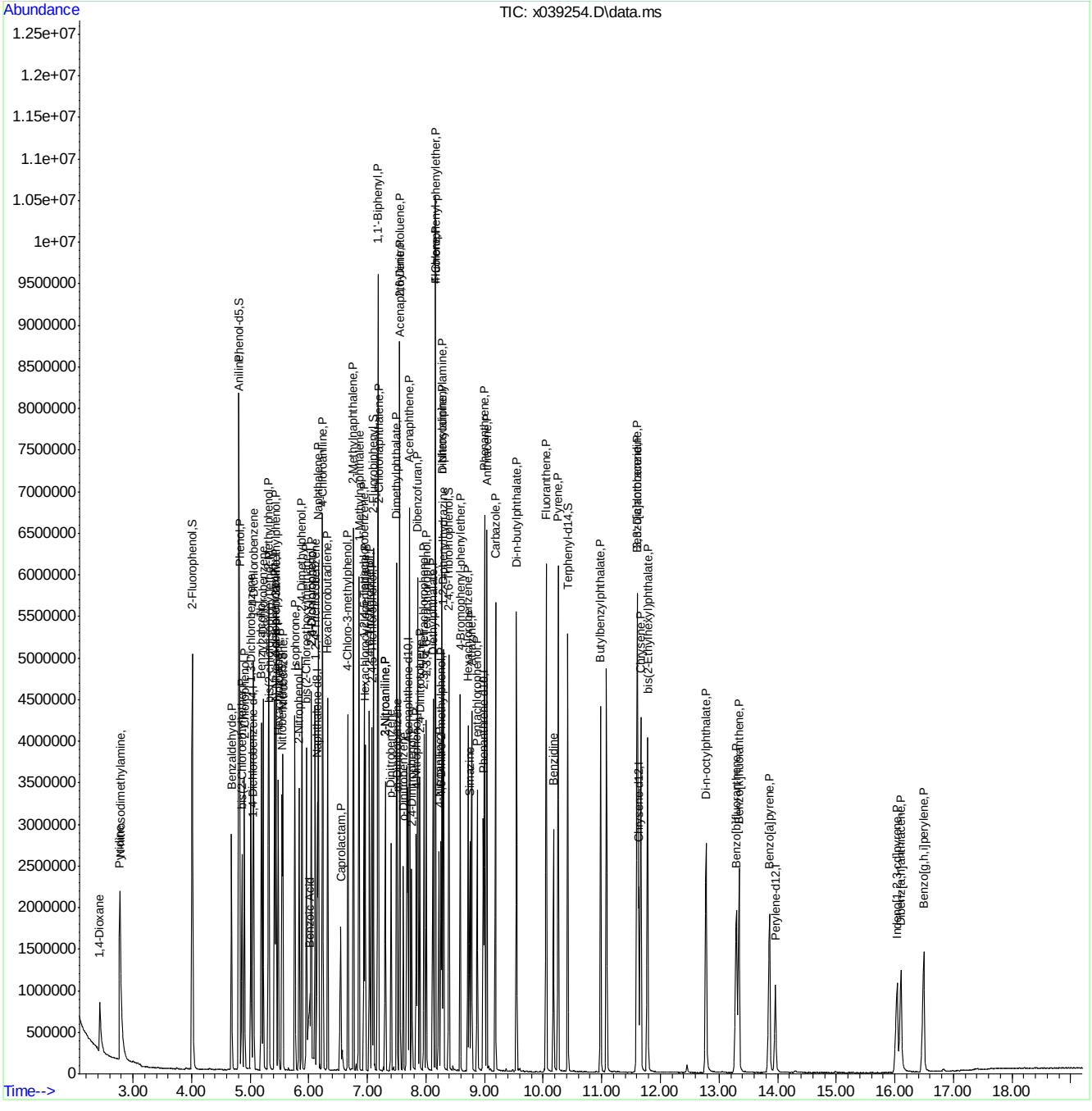
7.6.39

7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\sx1826\
Data File : x039254.D
Acq On : 30 Mar 2015 5:08 pm
Operator : nareshj
Sample : ic1826-75
Misc : op55392,sx1826,1000,,,1,1,water
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Mar 31 09:22:15 2015
Quant Method : C:\msdchem\1\METHODS\8270d_0330.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Fri Mar 27 11:06:47 2015
Response via : Initial Calibration



Manual Integration Approval Summary

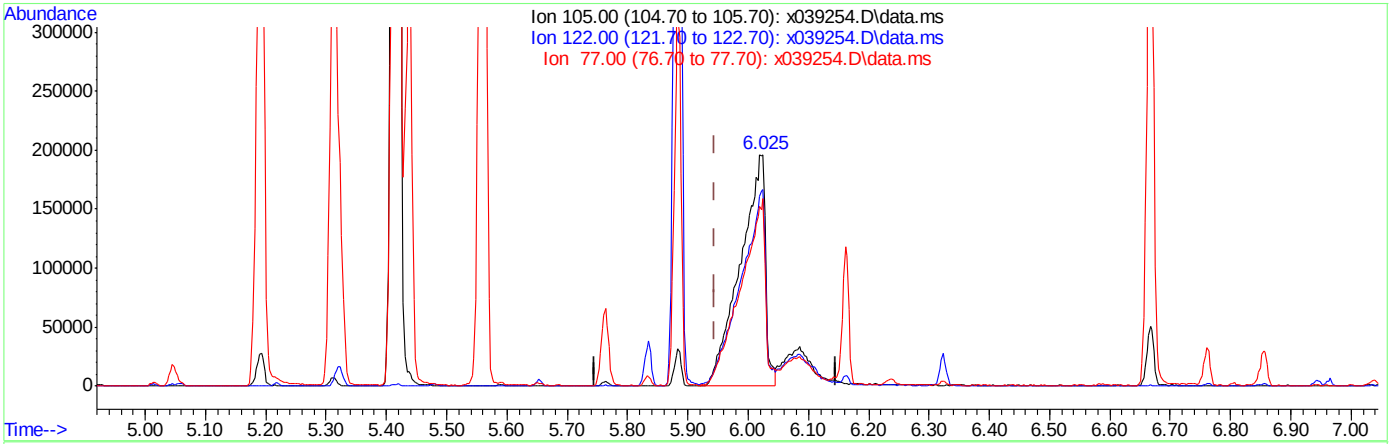
Sample Number:	SX1826-IC1826	**Method:**	SW846 8270D
Lab FileID:	X039254.D	**Analyst approved:**	03/31/15 11:22 Martha Valls
Injection Time:	03/30/15 17:08	**Supervisor approved:**	03/31/15 15:24 Mike Eger

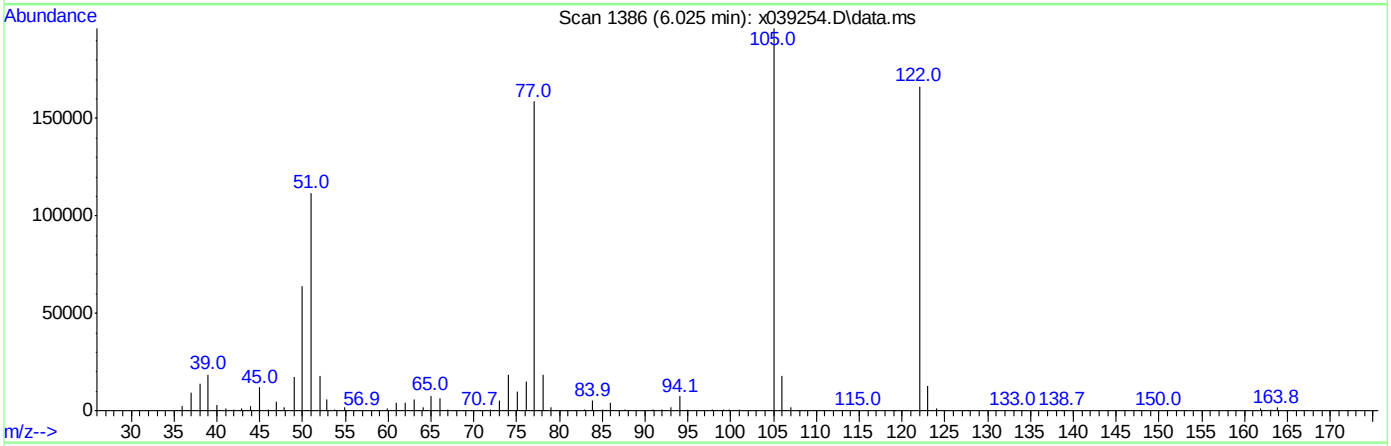
Parameter	CAS	Sig#	R.T. (min.)	Reason
Benzoic Acid	65-85-0		6.03	Split peak
Caprolactam	105-60-2		6.55	Split peak

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\sx1826\
Data File : x039254.D
Acq On : 30 Mar 2015 5:08 pm
Operator : nareshj
Sample : ic1826-75
Misc : op55392,sx1826,1000,,,1,1,water
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Mar 31 09:21:47 2015
Quant Method : C:\msdchem\1\METHODS\8270d_0330.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Fri Mar 27 11:06:47 2015
Response via : Initial Calibration





TIC: x039254.D\data.ms

(29) Benzoic Acid

6.025min (+0.080) 72.93ppm

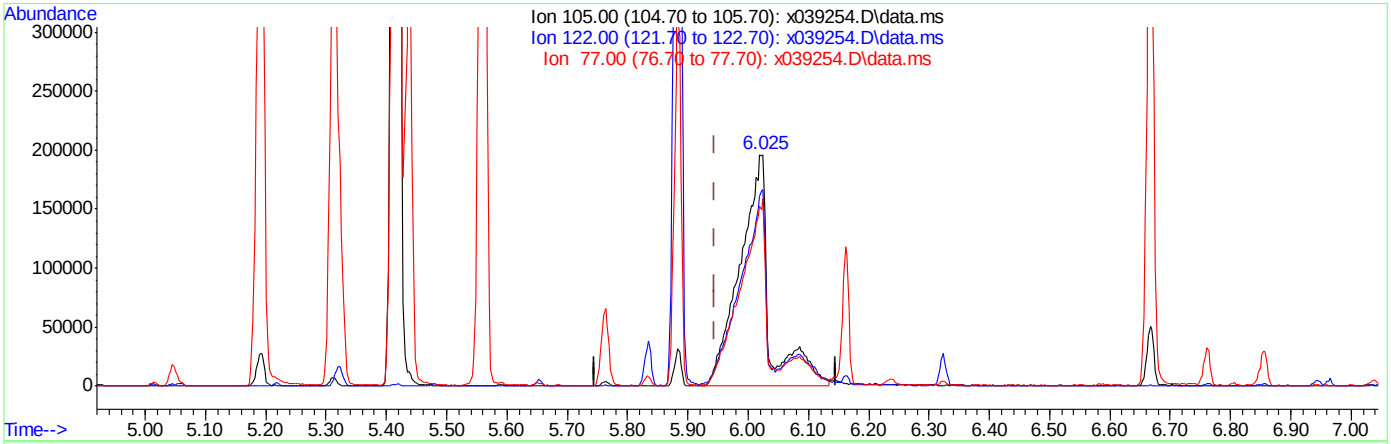
response 565806

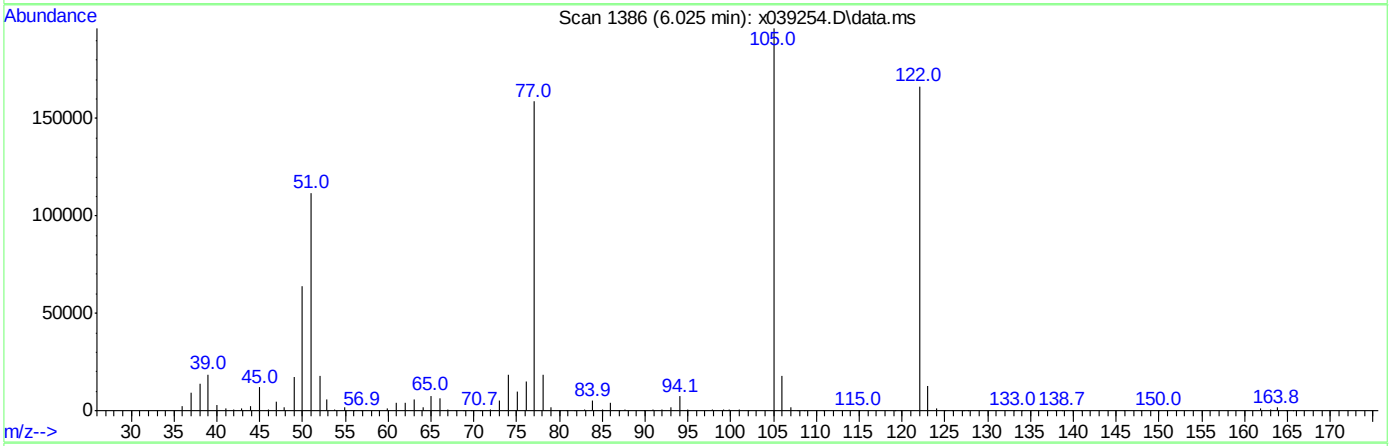
Ion	Exp%	Act%
105.00	100	100
122.00	71.80	84.49
77.00	80.10	80.17
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\sx1826\
Data File : x039254.D
Acq On : 30 Mar 2015 5:08 pm
Operator : nareshj
Sample : ic1826-75
Misc : op55392,sx1826,1000,,,1,1,water
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Mar 31 09:21:47 2015
Quant Method : C:\msdchem\1\METHODS\8270d_0330.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Fri Mar 27 11:06:47 2015
Response via : Initial Calibration





TIC: x039254.D\data.ms

(29) Benzoic Acid

6.025min (+0.080) 86.44ppm m

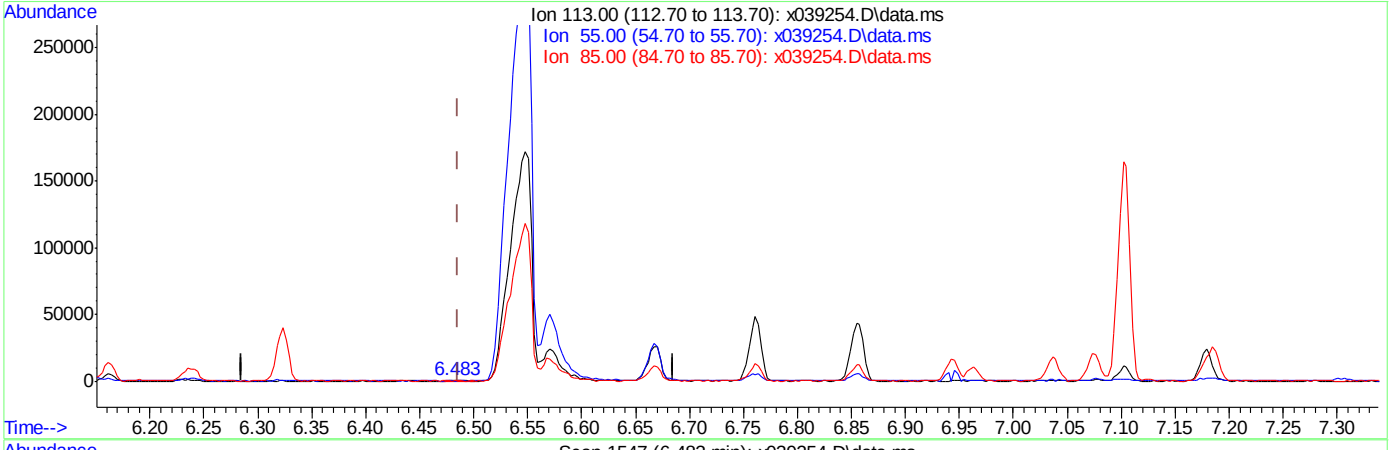
response 670673

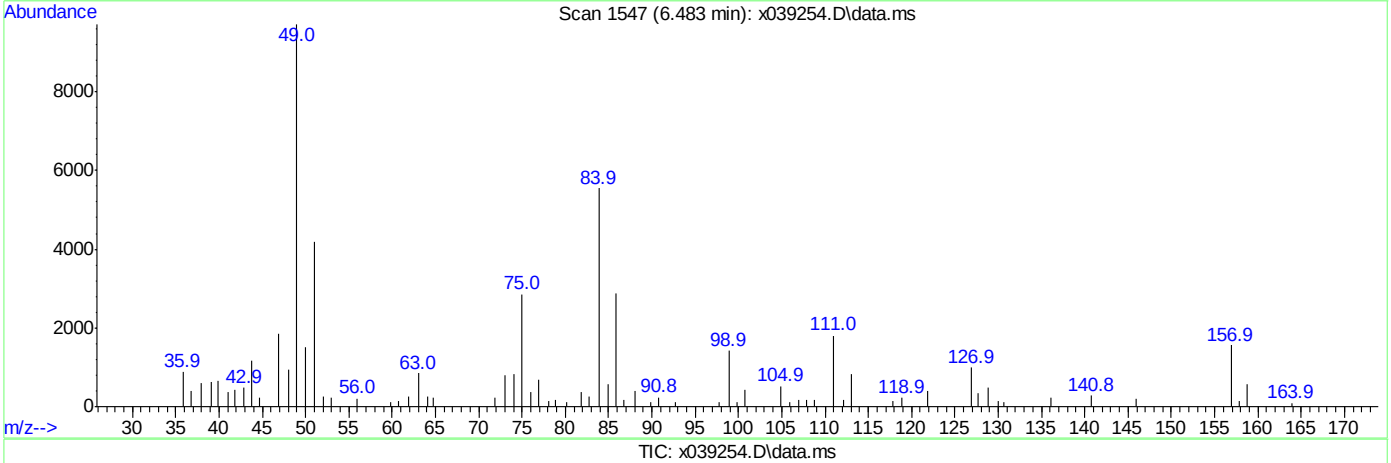
Ion	Exp%	Act%
105.00	100	100
122.00	71.80	84.81
77.00	80.10	80.83
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\sx1826\
Data File : x039254.D
Acq On : 30 Mar 2015 5:08 pm
Operator : nareshj
Sample : ic1826-75
Misc : op55392,sx1826,1000,,,1,1,water
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Mar 31 09:21:47 2015
Quant Method : C:\msdchem\1\METHODS\8270d_0330.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Fri Mar 27 11:06:47 2015
Response via : Initial Calibration





TIC: x039254.D\data.ms

(36) Caprolactam (P)

6.483min (-0.003) 0.16ppm

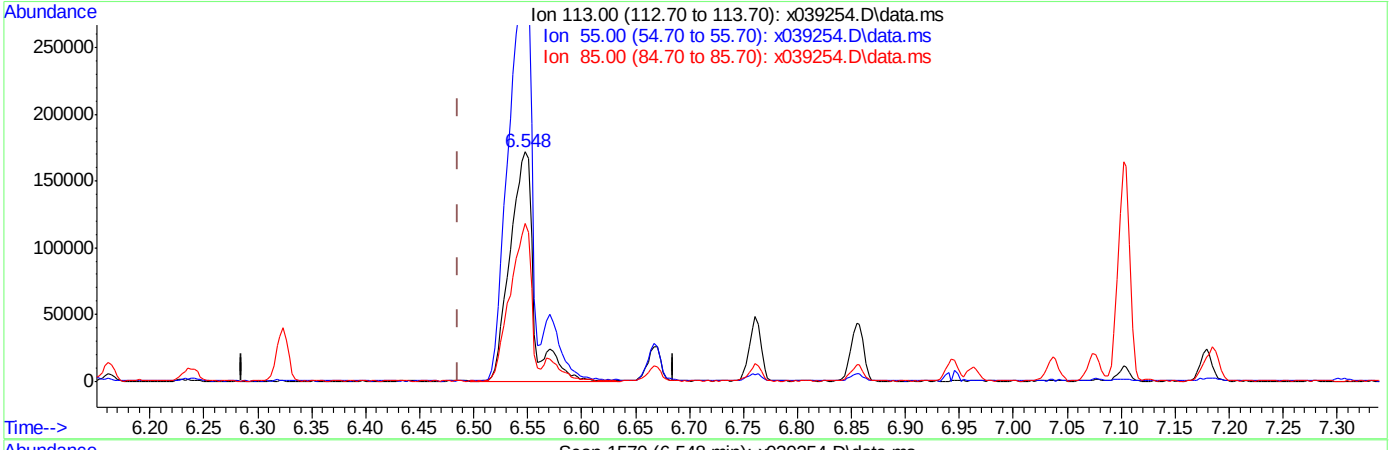
response 569

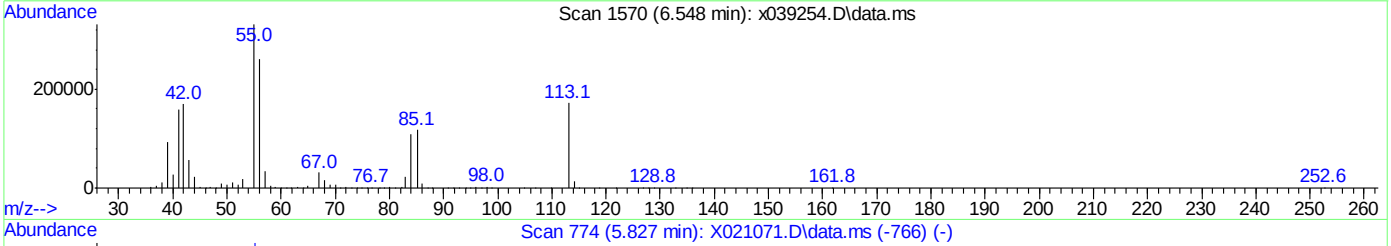
Ion	Exp%	Act%
113.00	100	100
55.00	140.60	0.00#
85.00	61.10	45.27
0.00	0.00	0.00

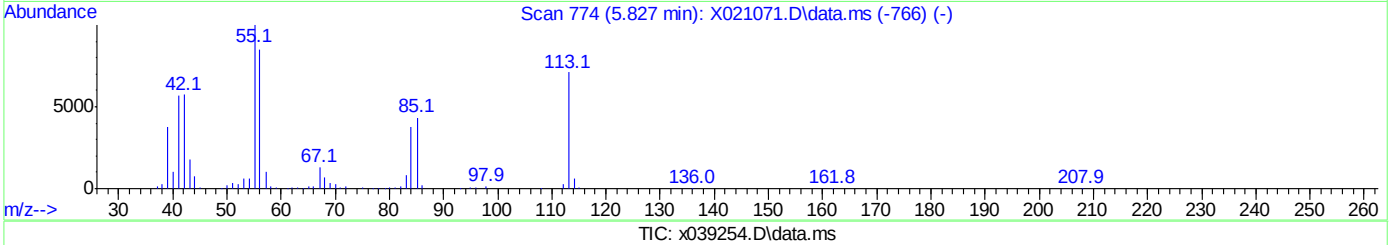
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\sx1826\
Data File : x039254.D
Acq On : 30 Mar 2015 5:08 pm
Operator : nareshj
Sample : ic1826-75
Misc : op55392,sx1826,1000,,,1,1,water
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Mar 31 09:21:47 2015
Quant Method : C:\msdchem\1\METHODS\8270d_0330.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Fri Mar 27 11:06:47 2015
Response via : Initial Calibration







TIC: x039254.D\data.ms

(36) Caprolactam (P)

6.548min (+0.062) 74.42ppm m

response 265341

Ion	Exp%	Act%
113.00	100	100
55.00	140.60	192.59#
85.00	61.10	68.58
0.00	0.00	0.00

X039255.D

Manual Integrations APPROVED (compounds with "m" flag)

Mike Eger
03/31/15 15:24

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\sx1826\
Data File : x039255.D
Acq On : 30 Mar 2015 5:32 pm
Operator : nareshj
Sample : ic1826-100
Misc : op55392,sx1826,1000,,,1,1,water
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Mar 31 09:24:05 2015
Quant Method : C:\msdchem\1\METHODS\8270d_0330.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Tue Mar 31 09:23:25 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	5.048	152	339674	40.00	ppm	0.00
22) Naphthalene-d8	6.147	136	1314705	40.00	ppm	0.00
41) Acenaphthene-d10	7.693	164	710768	40.00	ppm	0.00
67) Phenanthrene-d10	8.980	188	1102913	40.00	ppm	0.00
83) Chrysene-d12	11.631	240	966302	40.00	ppm	0.00
92) Perylene-d12	13.970	264	657770	40.00	ppm	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	4.013	112	2224509	186.15	ppm	0.00
Spiked Amount 100.000	Range 14 - 67		Recovery = 186.15%#			
9) Phenol-d5	4.817	99	2213594	165.54	ppm	0.02
Spiked Amount 100.000	Range 10 - 50		Recovery = 165.54%#			
23) Nitrobenzene-d5	5.548	82	1306523	94.90	ppm	0.01
Spiked Amount 50.000	Range 42 - 108		Recovery = 189.80%#			
45) 2-Fluorobiphenyl	7.108	172	2152761	89.19	ppm	0.01
Spiked Amount 50.000	Range 40 - 106		Recovery = 178.38%#			
72) 2,4,6-Tribromophenol	8.398	330	584752	228.21	ppm	0.00
Spiked Amount 100.000	Range 33 - 118		Recovery = 228.21%#			
86) Terphenyl-d14	10.424	244	2195421	97.46	ppm	0.00
Spiked Amount 50.000	Range 39 - 121		Recovery = 194.92%#			
Target Compounds						Qvalue
2) 1,4-Dioxane	2.436	88	531905	96.87	ppm	82
3) N-nitrosodimethylamine	2.789	42	734924	109.49	ppm	92
4) Pyridine	2.772	79	1394332	104.67	ppm	98
6) Benzaldehyde	4.684	106	597783	64.64	ppm	99
7) Aniline	4.809	93	1648938	97.36	ppm	89
8) bis(2-Chloroethyl)ether	4.863	93	1110513	98.01	ppm	89
10) Phenol	4.826	94	1476540	95.31	ppm	97
11) 2-Chlorophenol	4.903	128	1249967	99.01	ppm	96
12) 1,3-Dichlorobenzene	5.016	146	1332031	97.83	ppm	97
13) 1,4-Dichlorobenzene	5.062	146	1301746	95.70	ppm	97
14) 1,2-Dichlorobenzene	5.221	146	1233691	95.18	ppm	96
15) Benzyl alcohol	5.198	108	824501	100.76	ppm	91
16) 2-Methylphenol	5.318	108	1041716	96.49	ppm	99
17) bis(2-chloroisopropyl)...	5.326	45	1503306	80.50	ppm	98
18) Acetophenone	5.423	105	1564277	94.14	ppm	92
19) N-Nitroso-di-n-propyla...	5.451	70	632455	107.14	ppm	91
20) 3&4-Methylphenol	5.443	108	1119670	98.51	ppm	96
21) Hexachloroethane	5.482	117	543988	98.35	ppm	89
24) Nitrobenzene	5.565	77	1201991	93.29	ppm	90
25) Isophorone	5.769	82	2211141	94.47	ppm	94
26) 2-Nitrophenol	5.838	139	687477	98.34	ppm	93
27) 2,4-Dimethylphenol	5.889	107	1152806	96.14	ppm	92
28) bis(2-Chloroethoxy)met...	5.963	93	1238139	93.36	ppm	95
29) Benzoic Acid	6.051	105	1018091m	116.68	ppm	
30) 2,4-Dichlorophenol	6.048	162	971540	96.59	ppm	98
31) 1,2,4-Trichlorobenzene	6.113	180	1007136	96.74	ppm	95
32) Naphthalene	6.164	128	2755332	82.69	ppm	94

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\sx1826\
Data File : x039255.D
Acq On : 30 Mar 2015 5:32 pm
Operator : nareshj
Sample : ic1826-100
Misc : op55392,sx1826,1000,,,1,1,water
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Mar 31 09:24:05 2015
Quant Method : C:\msdchem\1\METHODS\8270d_0330.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Tue Mar 31 09:23:25 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
33) 4-Chloroaniline	6.238	127	1425602	94.30	ppm		97
34) 2,6-Dichlorophenol	6.048	162	971540	96.59	ppm		93
35) Hexachlorobutadiene	6.326	225	572660	98.33	ppm		98
36) Caprolactam	6.568	113	397408m	99.11	ppm		
37) 4-Chloro-3-methylphenol	6.673	107	1032067	97.22	ppm		96
38) 2-Methylnaphthalene	6.764	142	2091091	87.79	ppm		97
39) 1-Methylnaphthalene	6.860	142	1929683	91.73	ppm		97
40) 1,2,4,5-Tetrachloroben...	6.949	216	977535	95.92	ppm		98
42) Hexachlorocyclopentadiene	6.966	237	707680	115.70	ppm		97
43) 2,4,6-Trichlorophenol	7.042	196	685534	102.54	ppm		99
44) 2,4,5-Trichlorophenol	7.079	196	732858	102.04	ppm		98
46) 1,1'-Biphenyl	7.182	154	2229636	82.12	ppm		83
47) 2-Chloronaphthalene	7.190	162	1907165	93.70	ppm		93
48) 2-Nitroaniline	7.312	65	751871	99.86	ppm		97
49) p-Dinitrobenzene	7.409	75	487096	106.48	ppm		94
50) Dimethylphthalate	7.505	163	2125227	91.10	ppm		95
51) m-Dinitrobenzene	7.514	168	418666	105.49	ppm	#	44
52) 2,6-Dinitrotoluene	7.559	165	544000	99.42	ppm		88
53) o-Dinitrobenzene	7.622	50	449963	98.01	ppm		97
54) Acenaphthylene	7.559	152	2771611	85.95	ppm		85
55) 3-Nitroaniline	7.312	138	790427	100.92	ppm	#	60
56) Acenaphthene	7.724	153	1915306	92.28	ppm	#	1
57) 2,4-Dinitrophenol	7.767	184	362737	165.27	ppm		92
58) 4-Nitrophenol	7.844	109	389286	120.42	ppm	#	72
59) Dibenzofuran	7.861	168	2586684	89.70	ppm		90
60) 2,4-Dinitrotoluene	7.903	165	758578	103.22	ppm		91
61) 2,3,5,6-Tetrachlorophenol	7.971	232	602518	108.08	ppm		95
62) 2,3,4,6-Tetrachlorophenol	8.011	232	571278	104.03	ppm		93
63) Diethylphthalate	8.125	149	2213690	92.77	ppm		91
64) Fluorene	8.165	166	2134343	89.84	ppm		99
65) 4-Chlorophenyl-phenyle...	8.165	204	1078017	98.91	ppm		97
66) 4-Nitroaniline	8.233	138	639603	118.84	ppm		86
68) 4,6-Dinitro-2-methylph...	8.264	198	464983	131.36	ppm		89
69) Diphenylamine	8.281	169	1895846	93.90	ppm		93
70) n-Nitrosodiphenylamine	8.281	169	1895846	112.67	ppm		88
71) 1,2-Diphenylhydrazine	8.304	77	2149917	88.28	ppm		88
73) 4-Bromophenyl-phenylether	8.588	248	600816	102.45	ppm		94
74) Hexachlorobenzene	8.719	284	605827	107.88	ppm		99
75) Simazine	8.759	201	364558	218.91	ppm		92
76) Atrazine	8.787	200	725770	105.52	ppm		86
77) Pentachlorophenol	8.878	266	412029	120.59	ppm		97
78) Phenanthrene	9.003	178	2823391	88.48	ppm		86
79) Anthracene	9.043	178	2785683	88.04	ppm		86
80) Carbazole	9.190	167	2748145	96.13	ppm		89
81) Di-n-butylphthalate	9.548	149	3095516	81.57	ppm		91
82) Fluoranthene	10.057	202	2954238	90.28	ppm		86
84) Benzidine	10.176	184	1150021	95.49	ppm		99
85) Pyrene	10.259	202	3162622	89.32	ppm		83
87) Butylbenzylphthalate	10.983	149	1582003	93.02	ppm		94
88) 3,3'-Dichlorobenzidine	11.611	252	829134	109.02	ppm		99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\sx1826\
Data File : x039255.D
Acq On : 30 Mar 2015 5:32 pm
Operator : nareshj
Sample : ic1826-100
Misc : op55392,sx1826,1000,,,1,1,water
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Mar 31 09:24:05 2015
Quant Method : C:\msdchem\1\METHODS\8270d_0330.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Tue Mar 31 09:23:25 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
89) Benzo[a]anthracene	11.608	228	2799585	102.29 ppm	95
90) Chrysene	11.671	228	2577362	100.17 ppm	94
91) bis(2-Ethylhexyl)phtha...	11.785	149	2122601	92.77 ppm	95
93) Di-n-octylphthalate	12.782	149	3274717	95.36 ppm	94
94) Benzo[b]fluoranthene	13.305	252	2184328	102.61 ppm	97
95) Benzo[k]fluoranthene	13.353	252	2108743	103.06 ppm	96
96) Benzo[a]pyrene	13.873	252	2038822	107.59 ppm	96
97) Indeno[1,2,3-cd]pyrene	16.047	276	1411849	113.34 ppm	95
98) Dibenz[a,h]anthracene	16.121	278	1368336	118.15 ppm	97
99) Benzo[g,h,i]perylene	16.504	276	1541717	109.72 ppm	92

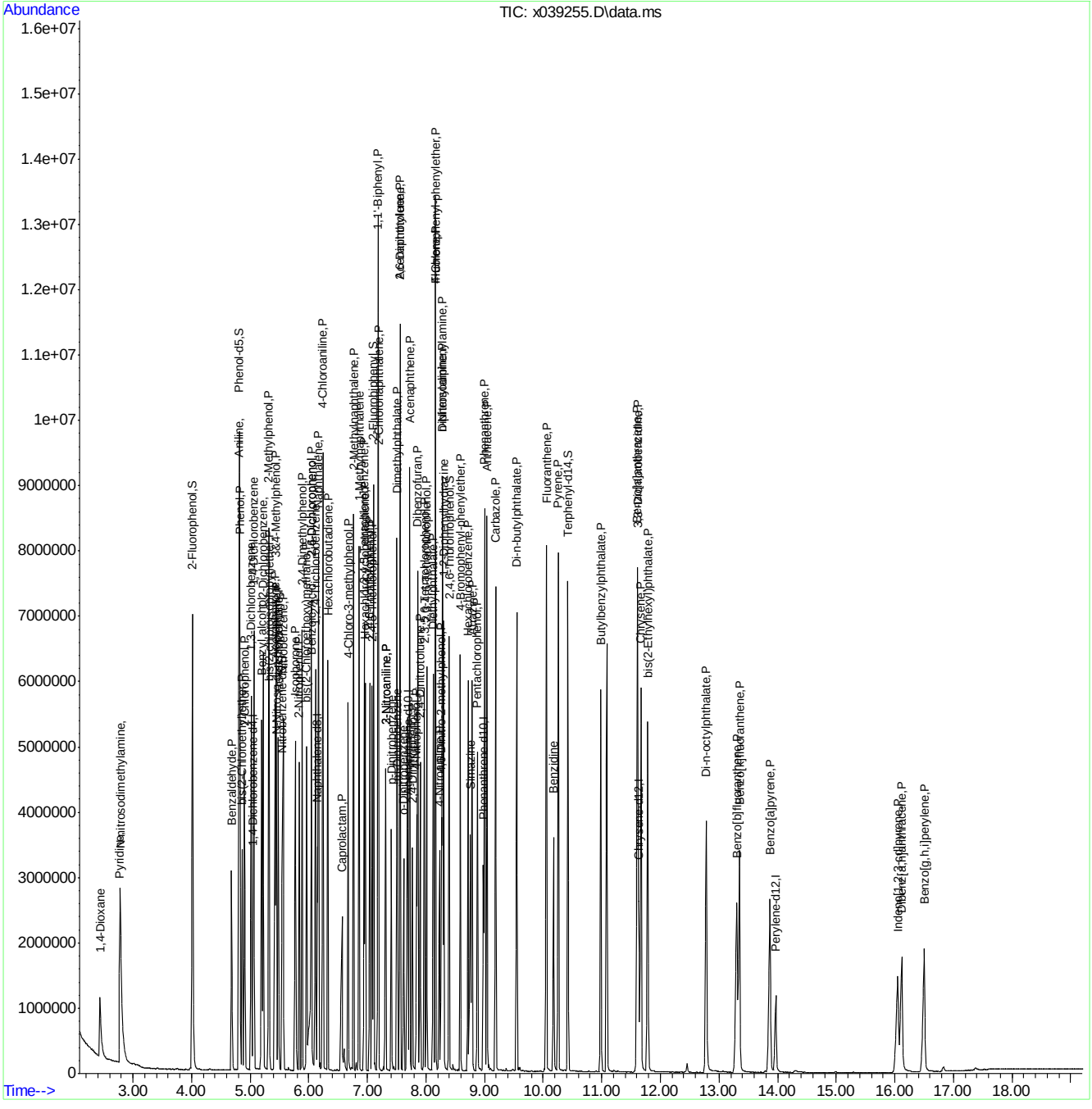
(#) = qualifier out of range (m) = manual integration (+) = signals summed

7.6.40
7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\sx1826\
Data File : x039255.D
Acq On : 30 Mar 2015 5:32 pm
Operator : nareshj
Sample : ic1826-100
Misc : op55392,sx1826,1000,,,1,1,water
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Mar 31 09:24:05 2015
Quant Method : C:\msdchem\1\METHODS\8270d_0330.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Tue Mar 31 09:23:25 2015
Response via : Initial Calibration



ACCUTEST LABORATORIES FA23258

Manual Integration Approval Summary

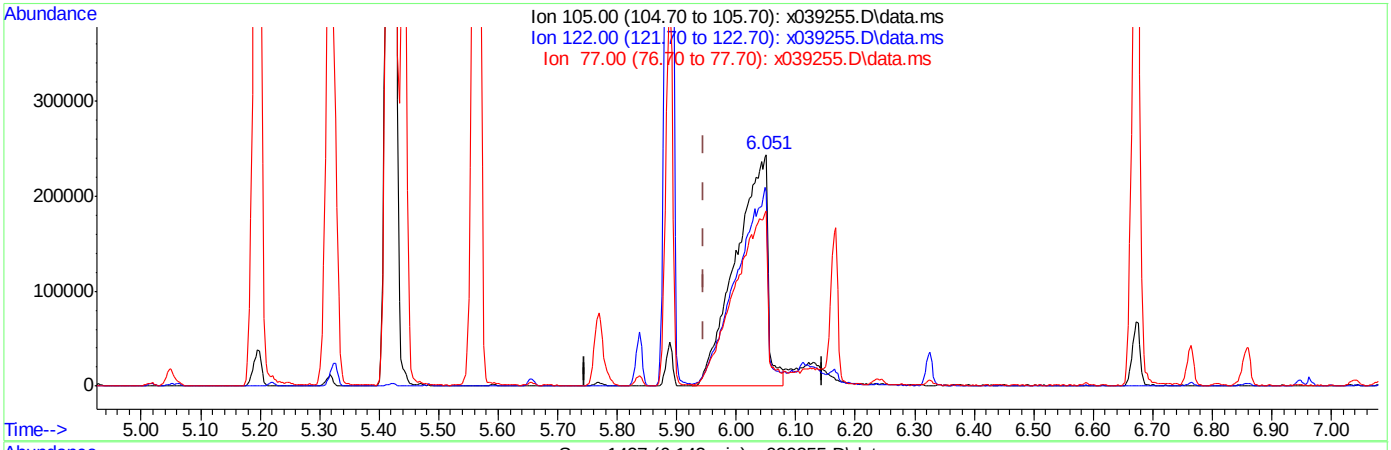
Sample Number:	SX1826-IC1826	**Method:**	SW846 8270D
Lab FileID:	X039255.D	**Analyst approved:**	03/31/15 11:22 Martha Valls
Injection Time:	03/30/15 17:32	**Supervisor approved:**	03/31/15 15:24 Mike Eger

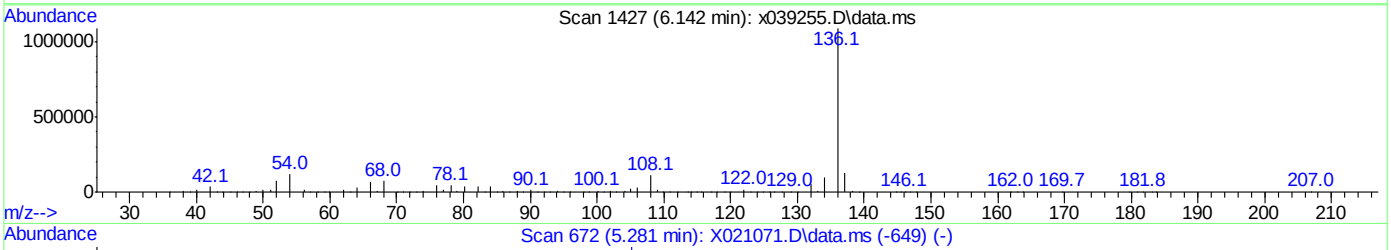
Parameter	CAS	Sig#	R.T. (min.)	Reason
Benzoic Acid	65-85-0		6.05	Split peak
Caprolactam	105-60-2		6.57	Split peak

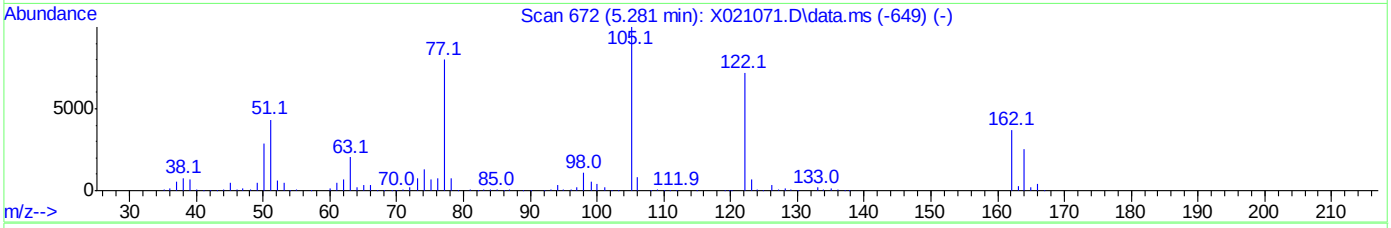
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\sx1826\
Data File : x039255.D
Acq On : 30 Mar 2015 5:32 pm
Operator : nareshj
Sample : ic1826-100
Misc : op55392,sx1826,1000,,,1,1,water
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Mar 31 09:23:37 2015
Quant Method : C:\msdchem\1\METHODS\8270d_0330.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Tue Mar 31 09:23:25 2015
Response via : Initial Calibration







TIC: x039255.D\data.ms

(29) Benzoic Acid

6.051min (+0.105) 104.30ppm

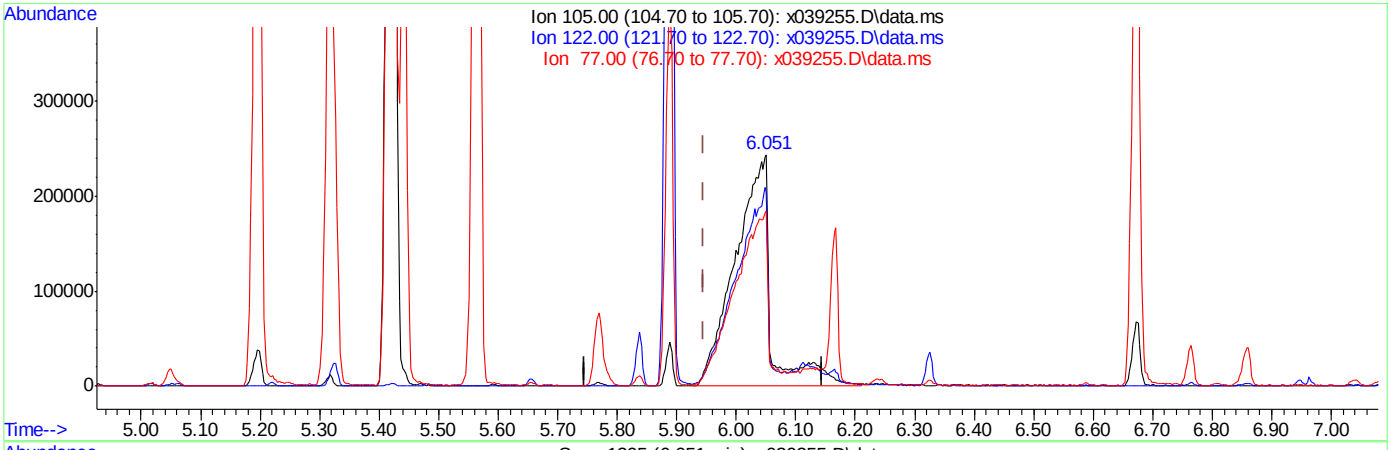
response 910087

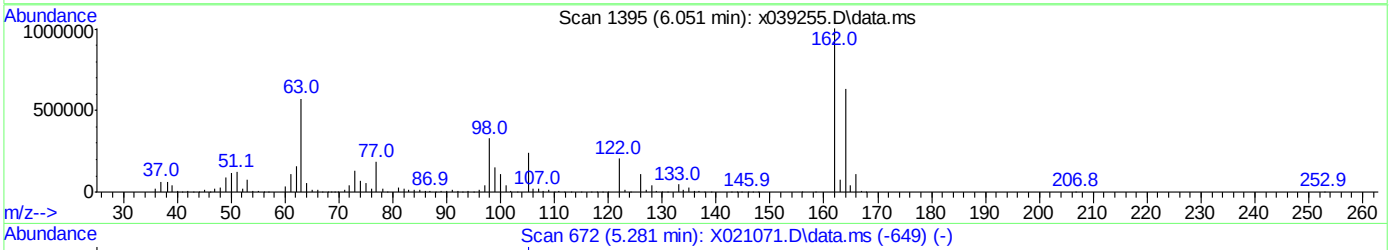
Ion	Exp%	Act%
105.00	100	100
122.00	71.80	83.31
77.00	80.10	74.90
0.00	0.00	0.00

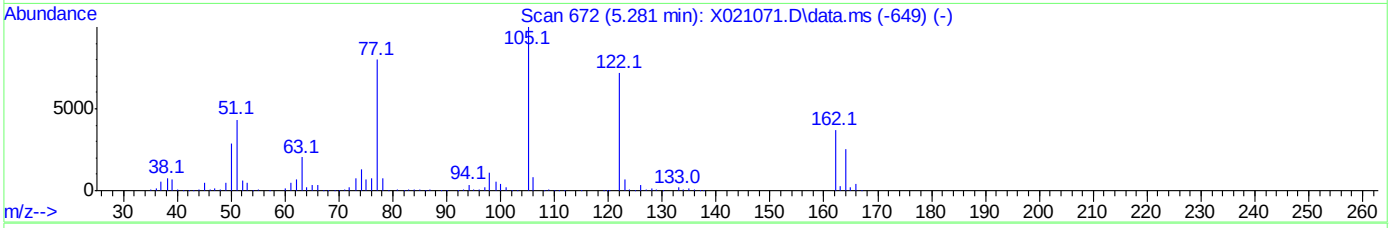
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\sx1826\
Data File : x039255.D
Acq On : 30 Mar 2015 5:32 pm
Operator : nareshj
Sample : ic1826-100
Misc : op55392,sx1826,1000,,,1,1,water
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Mar 31 09:23:37 2015
Quant Method : C:\msdchem\1\METHODS\8270d_0330.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Tue Mar 31 09:23:25 2015
Response via : Initial Calibration







TIC: x039255.D\data.ms

(29) Benzoic Acid

6.051min (+0.105) 116.68ppm m

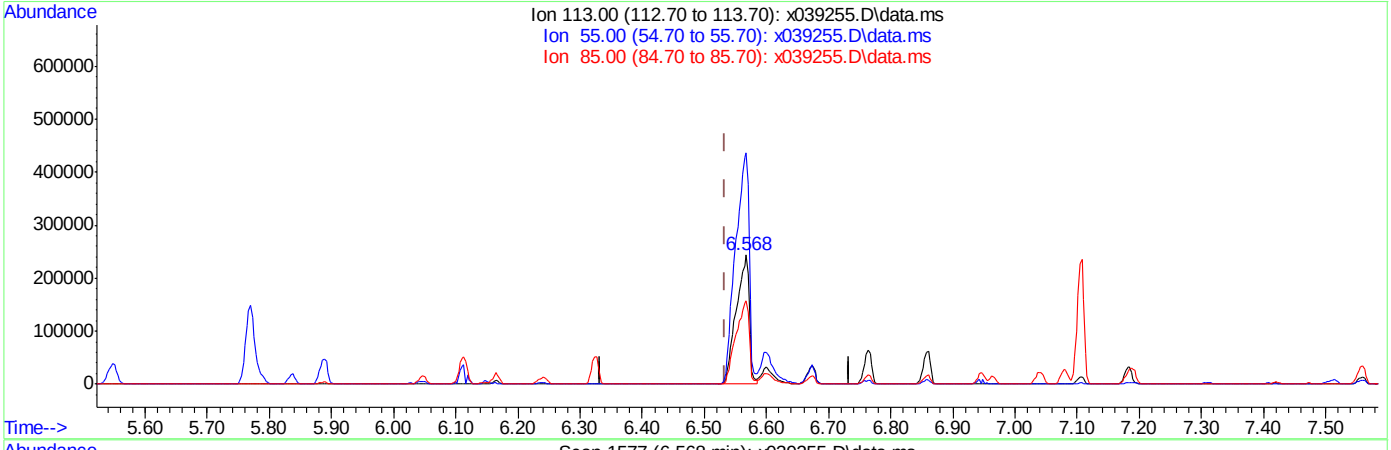
response 1018091

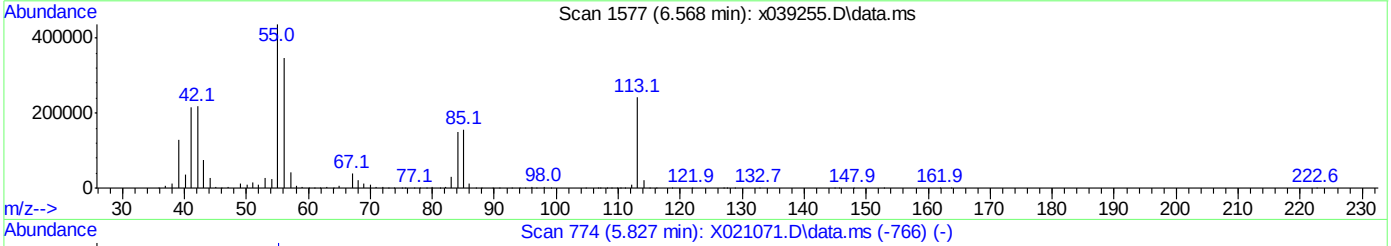
Ion	Exp%	Act%
105.00	100	100
122.00	71.80	83.67
77.00	80.10	75.56
0.00	0.00	0.00

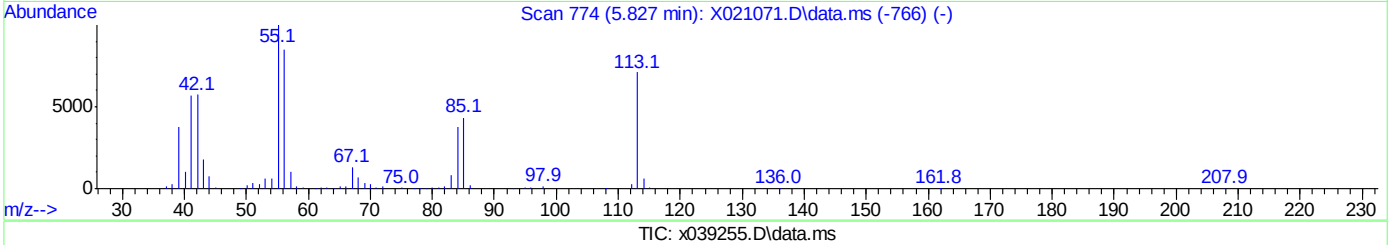
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\sx1826\
Data File : x039255.D
Acq On : 30 Mar 2015 5:32 pm
Operator : nareshj
Sample : ic1826-100
Misc : op55392,sx1826,1000,,,1,1,water
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Mar 31 09:23:37 2015
Quant Method : C:\msdchem\1\METHODS\8270d_0330.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Tue Mar 31 09:23:25 2015
Response via : Initial Calibration







TIC: x039255.D\data.ms

(36) Caprolactam (P)

6.568min (+0.034) 87.65ppm

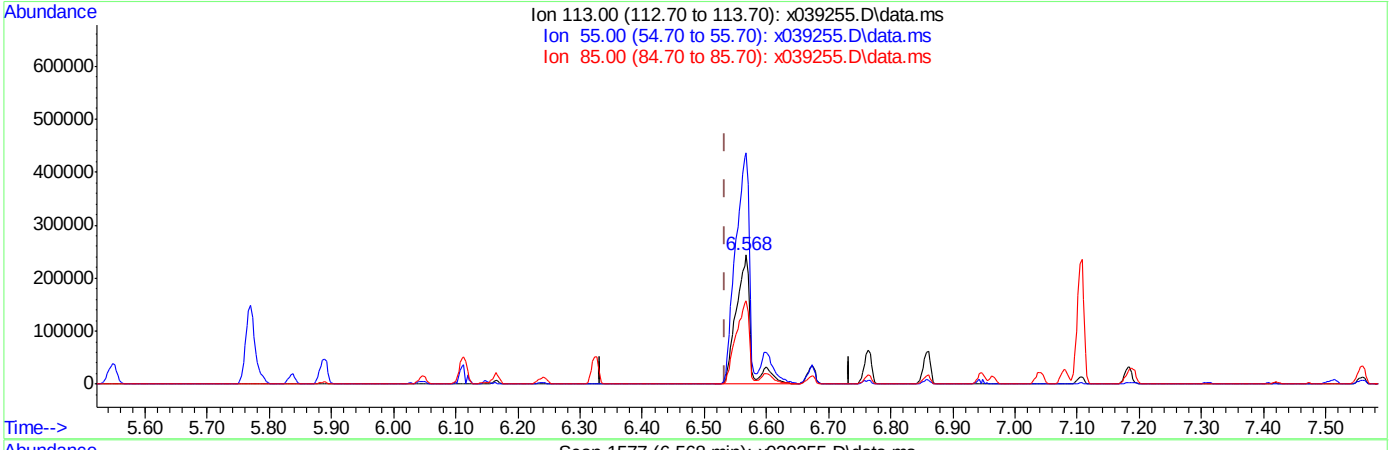
response 351431

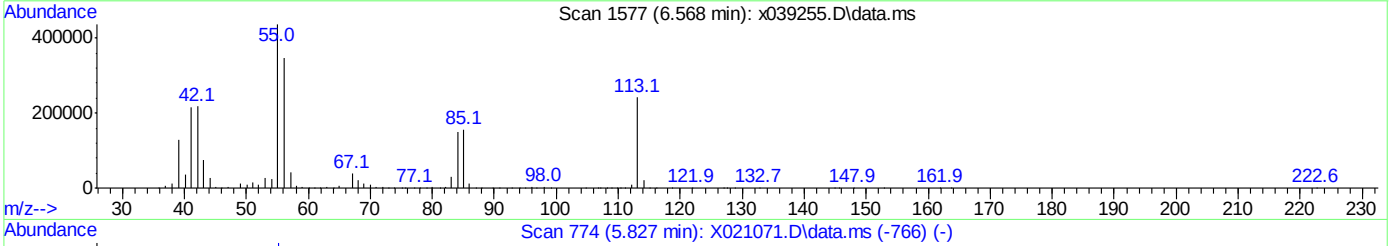
Ion	Exp%	Act%
113.00	100	100
55.00	199.50	178.96
85.00	66.50	64.24
0.00	0.00	0.00

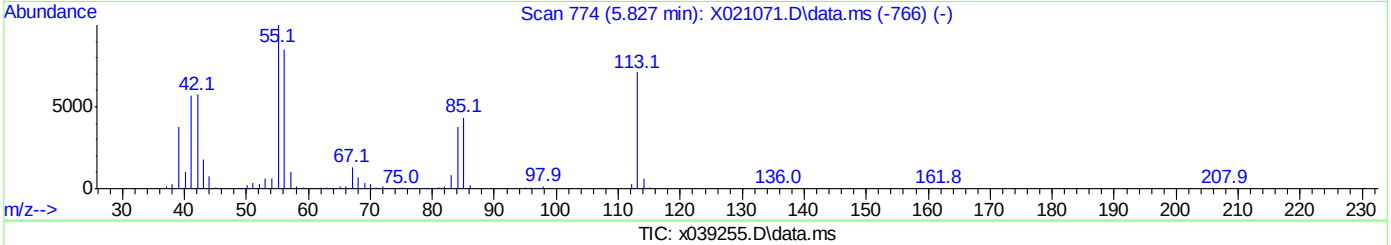
Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\DATA\sx1826\
Data File : x039255.D
Acq On    : 30 Mar 2015   5:32 pm
Operator  : nareshj
Sample    : ic1826-100
Misc      : op55392,sx1826,1000,,,1,1,water
ALS Vial  : 10   Sample Multiplier: 1

Quant Time: Mar 31 09:23:37 2015
Quant Method : C:\msdchem\1\METHODS\8270d_0330.m
Quant Title  : SW846 8270D OR EPA 625
QLast Update : Tue Mar 31 09:23:25 2015
Response via : Initial Calibration
```







TIC: x039255.D\data.ms

(36) Caprolactam (P)

6.568min (+0.034) 99.11ppm m

response 397408

Ion	Exp%	Act%
113.00	100	100
55.00	199.50	179.47
85.00	66.50	64.47
0.00	0.00	0.00

Manual Integrations APPROVED (compounds with "m" flag)
Mike Eger
03/31/15 15:24

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\sx1826\
Data File : x039256.D
Acq On : 30 Mar 2015 5:57 pm
Operator : nareshj
Sample : icv1826-50
Misc : op55392,sx1826,1000,,,1,1,water
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Mar 31 09:35:50 2015
Quant Method : C:\msdchem\1\METHODS\8270d_0330.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Tue Mar 31 09:29:41 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	5.048	152	342000	40.00	ppm	0.00
22) Naphthalene-d8	6.144	136	1266584	40.00	ppm	0.00
41) Acenaphthene-d10	7.687	164	680571	40.00	ppm	0.00
67) Phenanthrene-d10	8.977	188	1052429	40.00	ppm	0.00
83) Chrysene-d12	11.623	240	866594	40.00	ppm	0.00
92) Perylene-d12	13.961	264	597189	40.00	ppm	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	0.000	112	0d	0.00	ppm	
Spiked Amount 100.000	Range 14 - 67		Recovery = 0.00%#			
9) Phenol-d5	0.000	99	0d	0.00	ppm	
Spiked Amount 100.000	Range 10 - 50		Recovery = 0.00%#			
23) Nitrobenzene-d5	0.000	82	0d	0.00	ppm	
Spiked Amount 50.000	Range 42 - 108		Recovery = 0.00%#			
45) 2-Fluorobiphenyl	0.000	172	0d	0.00	ppm	
Spiked Amount 50.000	Range 40 - 106		Recovery = 0.00%#			
72) 2,4,6-Tribromophenol	0.000	330	0	0.00	ppm	
Spiked Amount 100.000	Range 33 - 118		Recovery = 0.00%#			
86) Terphenyl-d14	0.000	244	0d	0.00	ppm	
Spiked Amount 50.000	Range 39 - 121		Recovery = 0.00%#			
Target Compounds						Qvalue
2) 1,4-Dioxane	2.476	88	328385	61.19	ppm	97
3) N-nitrosodimethylamine	2.820	42	379951	48.67	ppm	98
8) bis(2-Chloroethyl)ether	4.860	93	559239	47.59	ppm	98
10) Phenol	4.817	94	747712	45.88	ppm	95
11) 2-Chlorophenol	4.906	128	642835	49.01	ppm	98
12) 1,3-Dichlorobenzene	5.016	146	659601	47.33	ppm	98
13) 1,4-Dichlorobenzene	5.062	146	673353	48.31	ppm	99
14) 1,2-Dichlorobenzene	5.221	146	635722	47.86	ppm	95
16) 2-Methylphenol	5.312	108	532392	46.61	ppm	95
17) bis(2-chloroisopropyl)...	5.323	45	967663	44.99	ppm	90
18) Acetophenone	5.414	105	903257	52.31	ppm	97
19) N-Nitroso-di-n-propyla...	5.443	70	320810	47.47	ppm	97
20) 3&4-Methylphenol	5.440	108	1107342	92.39	ppm	97
21) Hexachloroethane	5.482	117	273758	47.96	ppm	95
24) Nitrobenzene	5.559	77	621402	48.92	ppm	98
25) Isophorone	5.761	82	1058683	45.56	ppm	96
26) 2-Nitrophenol	5.835	139	352134	53.45	ppm	100
27) 2,4-Dimethylphenol	5.883	107	615887	51.22	ppm	98
28) bis(2-Chloroethoxy)met...	5.960	93	635218	48.14	ppm	98
29) Benzoic Acid	6.048	105	981811	107.37	ppm	99
30) 2,4-Dichlorophenol	6.042	162	472209	48.65	ppm	99
31) 1,2,4-Trichlorobenzene	6.110	180	467002	47.20	ppm	98
32) Naphthalene	6.161	128	1633192	50.02	ppm	92
34) 2,6-Dichlorophenol	6.042	162	472209	48.65	ppm	99
35) Hexachlorobutadiene	6.323	225	296407	53.61	ppm	93
36) Caprolactam	6.537	113	177828m	45.16	ppm	
37) 4-Chloro-3-methylphenol	6.664	107	507595	48.24	ppm	98

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\sx1826\
Data File : x039256.D
Acq On : 30 Mar 2015 5:57 pm
Operator : nareshj
Sample : icv1826-50
Misc : op55392,sx1826,1000,,,1,1,water
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Mar 31 09:35:50 2015
Quant Method : C:\msdchem\1\METHODS\8270d_0330.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Tue Mar 31 09:29:41 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) 1-Methylnaphthalene	6.855	142	1218804	59.22	ppm	99
40) 1,2,4,5-Tetrachloroben...	6.943	216	454377	47.00	ppm	96
42) Hexachlorocyclopentadiene	6.963	237	273982	44.92	ppm	96
43) 2,4,6-Trichlorophenol	7.037	196	329085	51.09	ppm	98
44) 2,4,5-Trichlorophenol	7.074	196	342074	49.83	ppm	97
46) 1,1'-Biphenyl	7.176	154	1228149	47.37	ppm	91
47) 2-Chloronaphthalene	7.184	162	953460	47.59	ppm	95
50) Dimethylphthalate	7.491	163	1096698	48.62	ppm	96
52) 2,6-Dinitrotoluene	7.551	165	243456	46.02	ppm	86
54) Acenaphthylene	7.551	152	1597056	50.63	ppm	90
56) Acenaphthene	7.716	153	1004562	49.48	ppm	96
57) 2,4-Dinitrophenol	7.756	184	368334	104.02	ppm	99
58) 4-Nitrophenol	7.835	109	334907	91.09	ppm	94
60) 2,4-Dinitrotoluene	7.889	165	343049	47.62	ppm	86
62) 2,3,4,6-Tetrachlorophenol	8.006	232	245569	46.38	ppm	96
63) Diethylphthalate	8.116	149	1083575	46.52	ppm	95
64) Fluorene	8.159	166	1145413	49.36	ppm	98
65) 4-Chlorophenyl-phenyle...	8.159	204	501598	47.82	ppm	94
68) 4,6-Dinitro-2-methylph...	8.250	198	409570	93.23	ppm	93
69) Diphenylamine	8.273	169	795028	40.70	ppm	94
70) n-Nitrosodiphenylamine	8.273	169	795028	48.85	ppm	94
71) 1,2-Diphenylhydrazine	8.298	77	1105689	46.40	ppm	90
73) 4-Bromophenyl-phenylether	8.582	248	235771	42.89	ppm	88
74) Hexachlorobenzene	8.713	284	210962	39.96	ppm	86
76) Atrazine	8.773	200	277925	42.54	ppm	92
77) Pentachlorophenol	8.875	266	424265	124.48	ppm	96
78) Phenanthrene	8.997	178	1510656	48.86	ppm	90
79) Anthracene	9.037	178	1545009	50.09	ppm	90
81) Di-n-butylphthalate	9.543	149	1706268	47.02	ppm	93
82) Fluoranthene	10.049	202	1555234	48.66	ppm	93
85) Pyrene	10.253	202	1592662	49.72	ppm	91
87) Butylbenzylphthalate	10.981	149	761641	49.77	ppm	99
89) Benzo[a]anthracene	11.600	228	1235419	49.41	ppm	98
90) Chrysene	11.660	228	1185339	49.96	ppm	96
91) bis(2-Ethylhexyl)phtha...	11.779	149	989546	48.84	ppm	97
93) Di-n-octylphthalate	12.774	149	1504657	49.20	ppm	97
94) Benzo[b]fluoranthene	13.285	252	980573	51.24	ppm	100
95) Benzo[k]fluoranthene	13.333	252	979798	49.91	ppm	96
96) Benzo[a]pyrene	13.853	252	874862	50.95	ppm	98
97) Indeno[1,2,3-cd]pyrene	16.024	276	565239	48.15	ppm	99
98) Dibenz[a,h]anthracene	16.095	278	556499	50.53	ppm	97
99) Benzo[g,h,i]perylene	16.482	276	698362	54.74	ppm	99

(#) = qualifier out of range (m) = manual integration (+) = signals summed

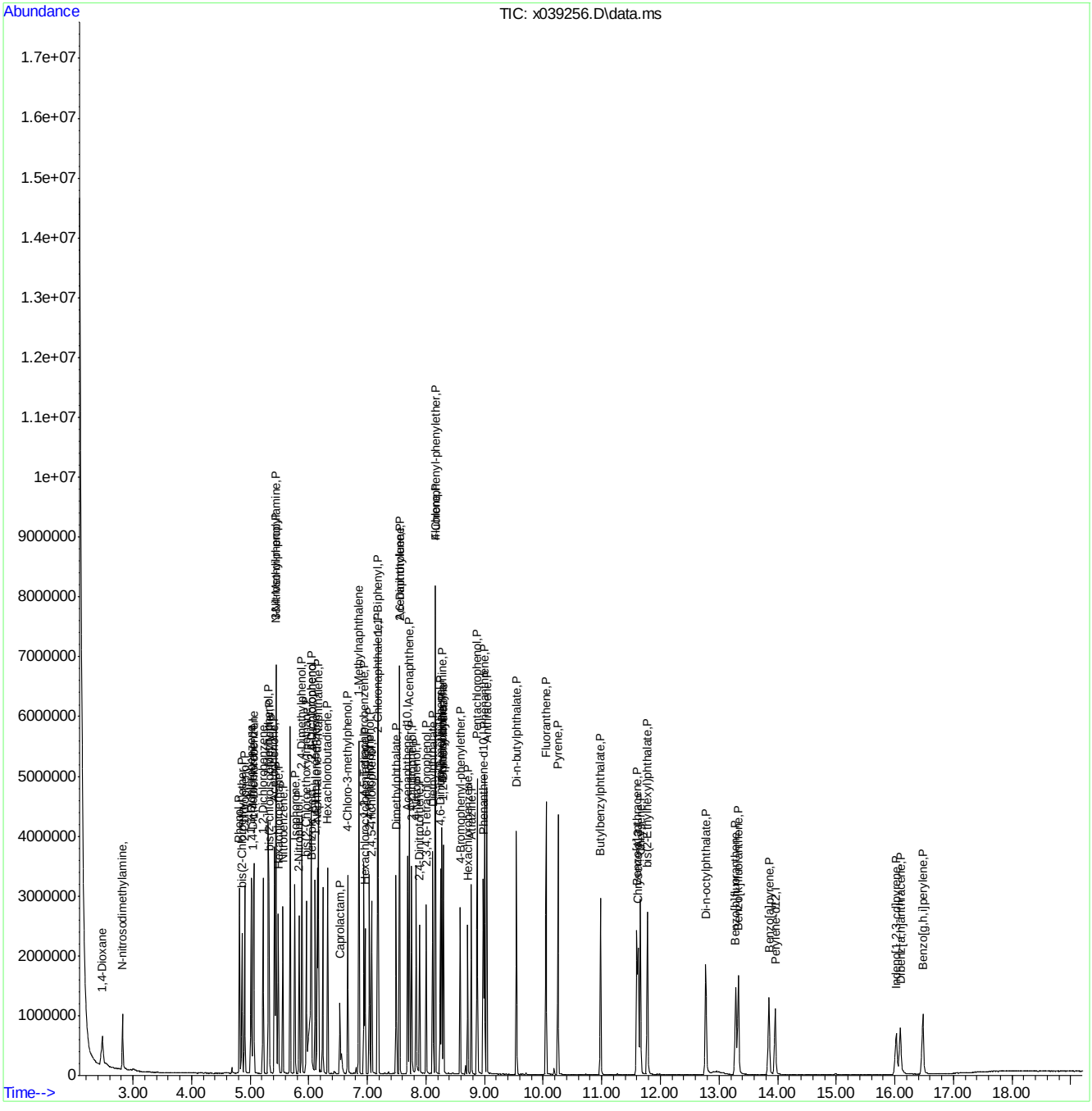
7.6.41

7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\sx1826\
Data File : x039256.D
Acq On : 30 Mar 2015 5:57 pm
Operator : nareshj
Sample : icv1826-50
Misc : op55392,sx1826,1000,,,1,1,water
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Mar 31 09:35:50 2015
Quant Method : C:\msdchem\1\METHODS\8270d_0330.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Tue Mar 31 09:29:41 2015
Response via : Initial Calibration



ACCUTEST LABORATORIES FA23258

Manual Integration Approval Summary

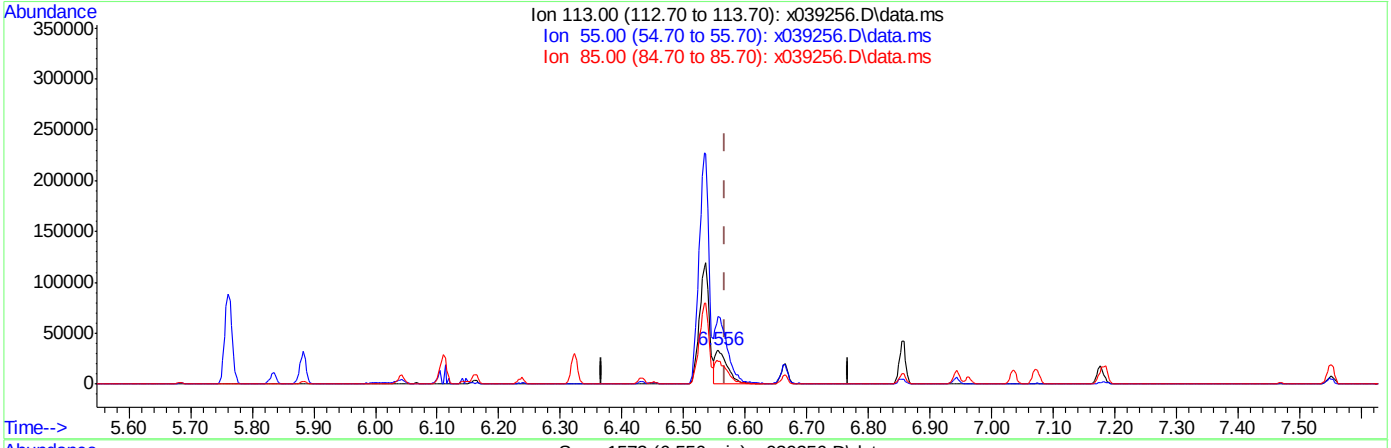
Sample Number:	SX1826-ICV1826	**Method:**	SW846 8270D
Lab FileID:	X039256.D	**Analyst approved:**	03/31/15 11:22 Martha Valls
Injection Time:	03/30/15 17:57	**Supervisor approved:**	03/31/15 15:24 Mike Eger

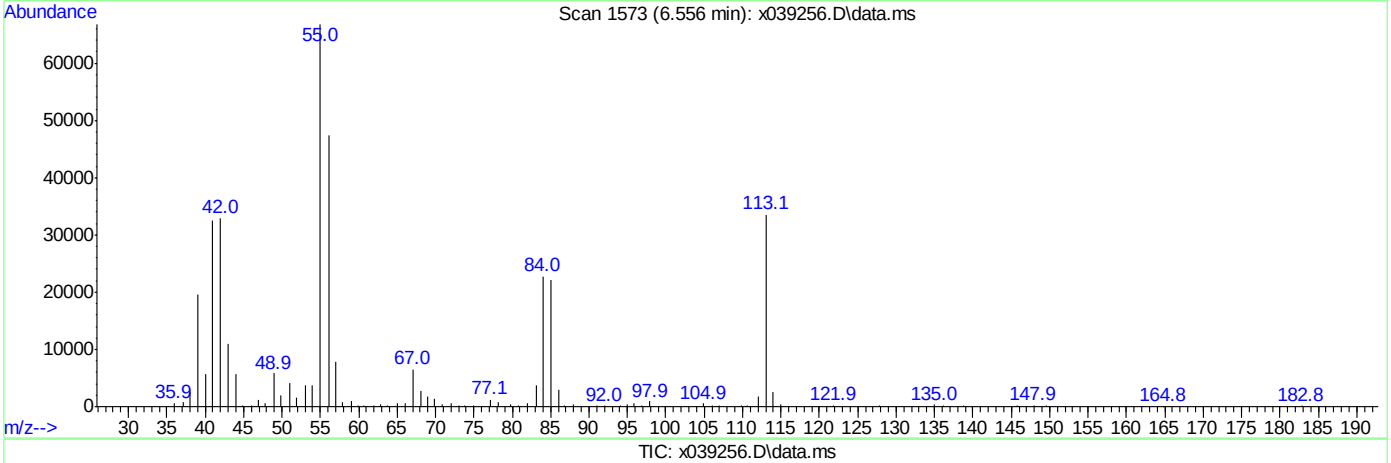
Parameter	CAS	Sig#	R.T. (min.)	Reason
Caprolactam	105-60-2		6.54	Split peak

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\DATA\sx1826\
Data File : x039256.D
Acq On    : 30 Mar 2015   5:57 pm
Operator  : nareshj
Sample    : icv1826-50
Misc      : op55392,sx1826,1000,,,1,1,water
ALS Vial  : 11   Sample Multiplier: 1

Quant Time: Mar 31 09:35:39 2015
Quant Method : C:\msdchem\1\METHODS\8270d_0330.m
Quant Title  : SW846 8270D OR EPA 625
QLast Update : Tue Mar 31 09:29:41 2015
Response via : Initial Calibration
```



TIC: x039256.D\data.ms

(36) Caprolactam (P)

6.556min (-0.012) 12.16ppm

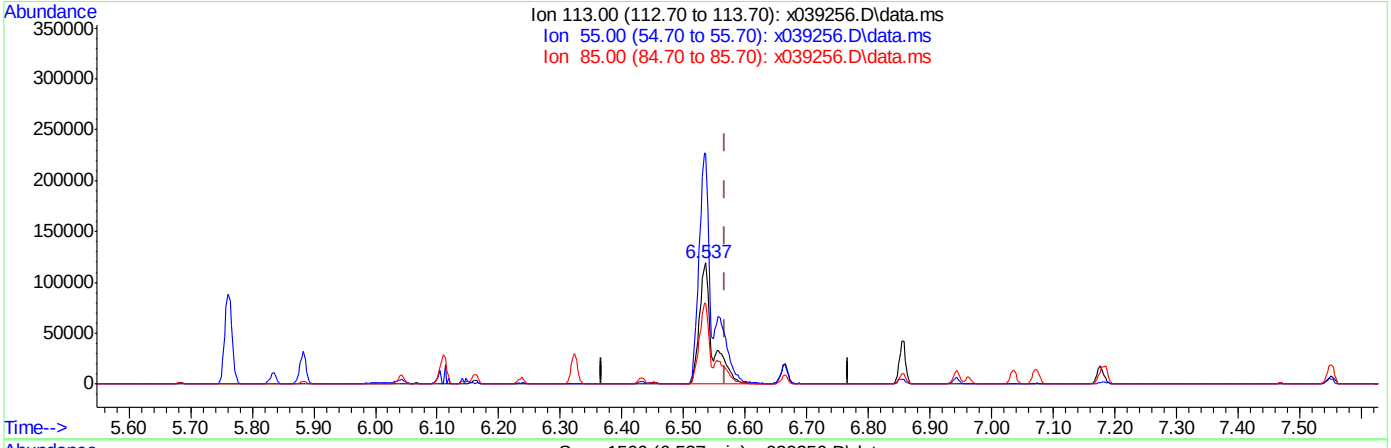
response 47877

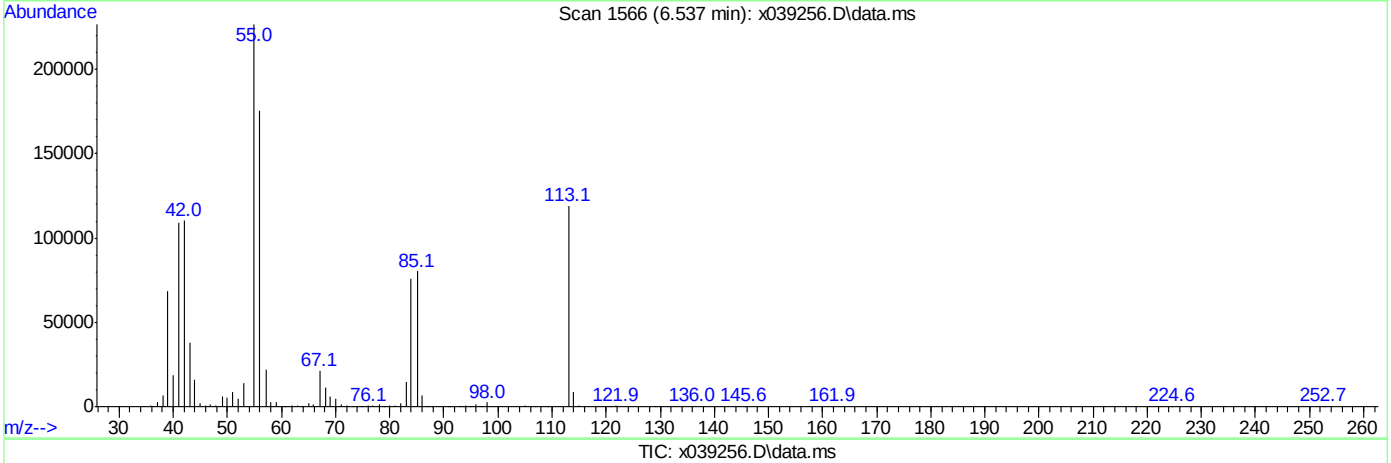
Ion	Exp%	Act%
113.00	100	100
55.00	179.50	200.89
85.00	64.50	64.75
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\sx1826\
Data File : x039256.D
Acq On : 30 Mar 2015 5:57 pm
Operator : nareshj
Sample : icv1826-50
Misc : op55392,sx1826,1000,,,1,1,water
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Mar 31 09:35:39 2015
Quant Method : C:\msdchem\1\METHODS\8270d_0330.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Tue Mar 31 09:29:41 2015
Response via : Initial Calibration





TIC: x039256.D\data.ms

(36) Caprolactam (P)

6.537min (-0.031) 45.16ppm m

response 177828

Ion	Exp%	Act%
113.00	100	100
55.00	179.50	190.57
85.00	64.50	67.47
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\sx1826\
Data File : x039257.D
Acq On : 30 Mar 2015 6:22 pm
Operator : nareshj
Sample : icv1826-50
Misc : op55392,sx1826,1000,,,1,1,water
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Mar 31 09:39:45 2015
Quant Method : C:\msdchem\1\METHODS\8270d_0330.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Tue Mar 31 09:29:41 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	5.042	152	350269	40.00	ppm	0.00
22) Naphthalene-d8	6.139	136	1329846	40.00	ppm	0.00
41) Acenaphthene-d10	7.687	164	717452	40.00	ppm	0.00
67) Phenanthrene-d10	8.972	188	1095139	40.00	ppm	0.00
83) Chrysene-d12	11.617	240	949925	40.00	ppm	-0.01
92) Perylene-d12	13.956	264	598884	40.00	ppm	-0.01
System Monitoring Compounds						
5) 2-Fluorophenol	0.000	112	0	0.00	ppm	
Spiked Amount 100.000	Range 14 - 67		Recovery	=	0.00%#	
9) Phenol-d5	0.000	99	0	0.00	ppm	
Spiked Amount 100.000	Range 10 - 50		Recovery	=	0.00%#	
23) Nitrobenzene-d5	0.000	82	0	0.00	ppm	
Spiked Amount 50.000	Range 42 - 108		Recovery	=	0.00%#	
45) 2-Fluorobiphenyl	0.000	172	0	0.00	ppm	
Spiked Amount 50.000	Range 40 - 106		Recovery	=	0.00%#	
72) 2,4,6-Tribromophenol	0.000	330	0	0.00	ppm	
Spiked Amount 100.000	Range 33 - 118		Recovery	=	0.00%#	
86) Terphenyl-d14	0.000	244	0d	0.00	ppm	
Spiked Amount 50.000	Range 39 - 121		Recovery	=	0.00%#	
Target Compounds						Qvalue
4) Pyridine	2.769	79	647460	44.33	ppm	96
6) Benzaldehyde	4.681	106	466773	45.56	ppm	98
7) Aniline	4.803	93	865967	46.71	ppm	93
15) Benzyl alcohol	5.187	108	391639	45.43	ppm	97
33) 4-Chloroaniline	6.227	127	753027	47.57	ppm	95
38) 2-Methylnaphthalene	6.761	142	1119716	46.02	ppm	96
48) 2-Nitroaniline	7.304	65	367342	46.43	ppm	98
51) m-Dinitrobenzene	7.497	168	180204	44.83	ppm	87
55) 3-Nitroaniline	7.304	138	385906	48.33	ppm	99
59) Dibenzofuran	7.852	168	1384788	46.36	ppm	93
66) 4-Nitroaniline	8.205	138	292712	49.21	ppm	99
80) Carbazole	9.182	167	1495888	49.29	ppm	92
84) Benzidine	10.174	184	822310	59.00	ppm	100
88) 3,3'-Dichlorobenzidine	11.597	252	396203	52.25	ppm	99

(#) = qualifier out of range (m) = manual integration (+) = signals summed

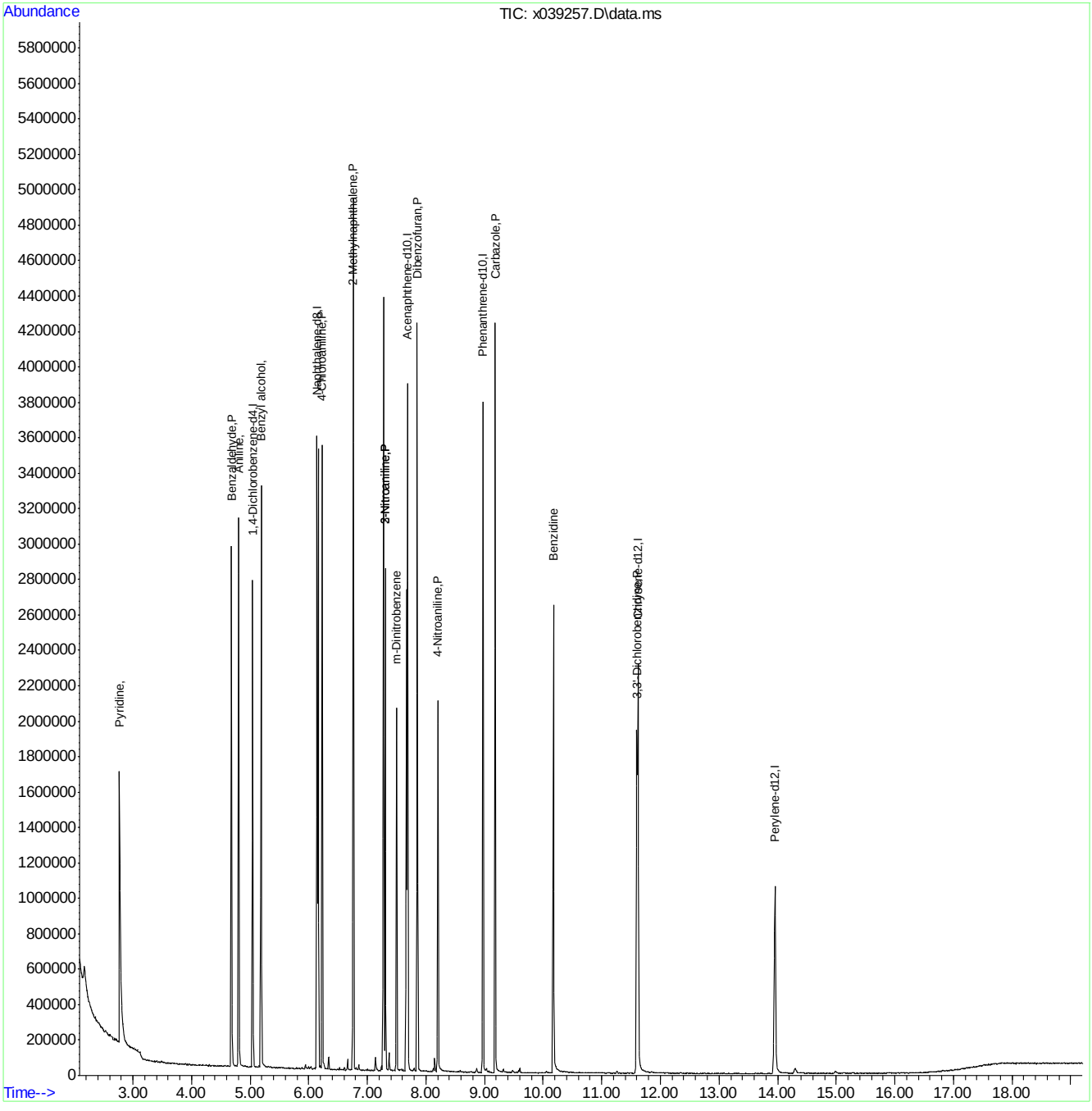
7.6.42

7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\sx1826\
Data File : x039257.D
Acq On : 30 Mar 2015 6:22 pm
Operator : nareshj
Sample : icv1826-50
Misc : op55392,sx1826,1000,,,1,1,water
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Mar 31 09:39:45 2015
Quant Method : C:\msdchem\1\METHODS\8270d_0330.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Tue Mar 31 09:29:41 2015
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\sx1828\
Data File : x039304.D
Acq On : 1 Apr 2015 10:19 am
Operator : marthav
Sample : icv1826-50,hexachlorobenzene
Misc : op55512,sx1828,1000,,,1,1,water
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Apr 02 09:04:53 2015
Quant Method : C:\msdchem\1\METHODS\8270d_03302.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Tue Mar 31 09:29:41 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.988	152	233840	40.00	ppm	0.00
22) Naphthalene-d8	6.085	136	918965	40.00	ppm	0.00
41) Acenaphthene-d10	7.628	164	494225	40.00	ppm	0.00
67) Phenanthrene-d10	8.915	188	733547	40.00	ppm	0.00
83) Chrysene-d12	11.535	240	554431	40.00	ppm	-0.01
92) Perylene-d12	13.839	264	353446	40.00	ppm	-0.01
System Monitoring Compounds						
5) 2-Fluorophenol	0.000	112	0	0.00	ppm	
Spiked Amount 100.000	Range 14 - 67		Recovery = 0.00%#			
9) Phenol-d5	0.000	99	0	0.00	ppm	
Spiked Amount 100.000	Range 10 - 50		Recovery = 0.00%#			
23) Nitrobenzene-d5	0.000	82	0	0.00	ppm	
Spiked Amount 50.000	Range 42 - 108		Recovery = 0.00%#			
45) 2-Fluorobiphenyl	0.000	172	0	0.00	ppm	
Spiked Amount 50.000	Range 40 - 106		Recovery = 0.00%#			
72) 2,4,6-Tribromophenol	0.000	330	0	0.00	ppm	
Spiked Amount 100.000	Range 33 - 118		Recovery = 0.00%#			
86) Terphenyl-d14	0.000	244	0d	0.00	ppm	
Spiked Amount 50.000	Range 39 - 121		Recovery = 0.00%#			
Target Compounds						Qvalue
74) Hexachlorobenzene	8.656	284	155102	42.15	ppm	91

(#) = qualifier out of range (m) = manual integration (+) = signals summed

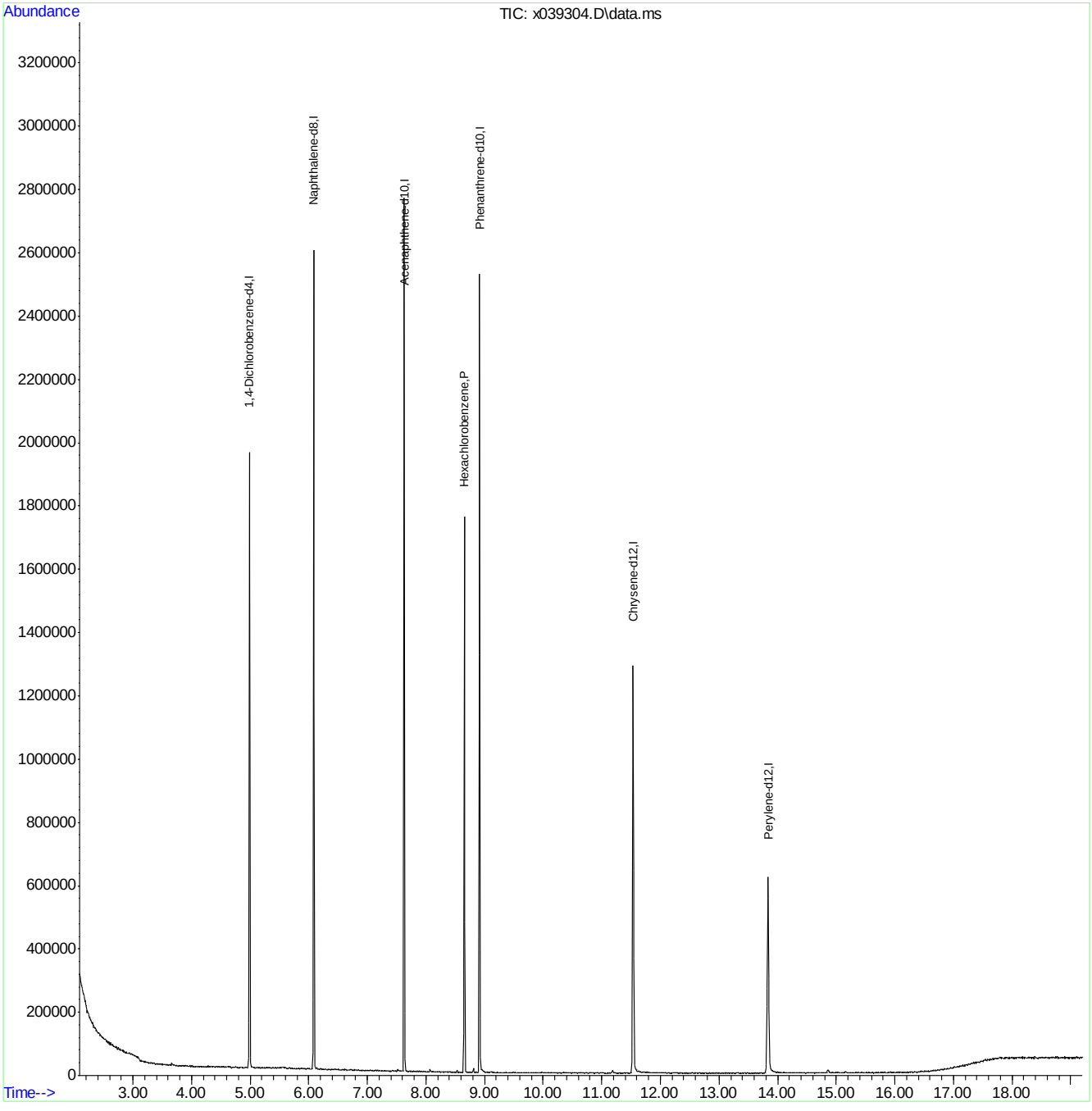
7.6.43

7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\sx1828\
Data File : x039304.D
Acq On : 1 Apr 2015 10:19 am
Operator : marthav
Sample : icv1826-50,hexachlorobenzene
Misc : op55512,sx1828,1000,,,1,1,water
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Apr 02 09:04:53 2015
Quant Method : C:\msdchem\1\METHODS\8270d_03302.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Tue Mar 31 09:29:41 2015
Response via : Initial Calibration



ACCUTEST LABORATORIES FA23258

Manual Integrations APPROVED (compounds with "m" flag)
Naresh Jiawan
04/09/15 11:03

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\sx1832\
Data File : x039417.D
Acq On : 7 Apr 2015 12:55 pm
Operator : marthav
Sample : cc1826-50
Misc : op55570,sx1832,1000,,,1,1,water
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Apr 09 09:56:14 2015
Quant Method : C:\msdchem\1\METHODS\8270d_03302.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Thu Apr 09 09:56:01 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.926	152	336704	40.00	ppm	0.00
22) Naphthalene-d8	6.022	136	1264616	40.00	ppm	0.00
41) Acenaphthene-d10	7.568	164	709094	40.00	ppm	0.00
67) Phenanthrene-d10	8.852	188	1124589	40.00	ppm	0.00
83) Chrysene-d12	11.449	240	929997	40.00	ppm	0.00
92) Perylene-d12	13.706	264	597974	40.00	ppm	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	3.923	112	1234679	102.42	ppm	0.00
Spiked Amount 100.000	Range 14 - 67		Recovery = 102.42%#			
9) Phenol-d5	4.718	99	1232357	100.52	ppm	0.00
Spiked Amount 100.000	Range 10 - 50		Recovery = 100.52%#			
23) Nitrobenzene-d5	5.426	82	688195	51.38	ppm	0.00
Spiked Amount 50.000	Range 42 - 108		Recovery = 102.76%			
45) 2-Fluorobiphenyl	6.983	172	1156029	48.10	ppm	0.00
Spiked Amount 50.000	Range 40 - 106		Recovery = 96.20%			
72) 2,4,6-Tribromophenol	8.270	330	281032	111.25	ppm	0.00
Spiked Amount 100.000	Range 33 - 118		Recovery = 111.25%			
86) Terphenyl-d14	10.290	244	1149172	54.08	ppm	0.03
Spiked Amount 50.000	Range 39 - 121		Recovery = 108.16%			
Target Compounds						Qvalue
2) 1,4-Dioxane	2.331	88	256382	48.52	ppm	96
3) N-nitrosodimethylamine	2.684	42	378498	49.25	ppm	92
4) Pyridine	2.664	79	728898	51.91	ppm	95
6) Benzaldehyde	4.565	106	503221	54.75	ppm	96
7) Aniline	4.690	93	883031	49.55	ppm	79
8) bis(2-Chloroethyl)ether	4.744	93	577192	49.89	ppm	88
10) Phenol	4.727	94	767211	47.82	ppm	96
11) 2-Chlorophenol	4.798	128	640549	49.60	ppm	93
12) 1,3-Dichlorobenzene	4.891	146	676746	49.33	ppm	98
13) 1,4-Dichlorobenzene	4.940	146	680815	49.61	ppm	97
14) 1,2-Dichlorobenzene	5.096	146	647232	49.49	ppm	97
15) Benzyl alcohol	5.079	108	423224	51.07	ppm	96
16) 2-Methylphenol	5.221	108	549952	48.91	ppm	84
17) bis(2-chloroisopropyl)...	5.204	45	1024986	49.60	ppm	87
18) Acetophenone	5.298	105	800535	47.09	ppm	97
19) N-Nitroso-di-n-propyla...	5.329	70	290815	43.71	ppm	95
20) 3&4-Methylphenol	5.340	108	588780	49.90	ppm	95
21) Hexachloroethane	5.357	117	280323	49.89	ppm	80
24) Nitrobenzene	5.440	77	641818	50.61	ppm	96
25) Isophorone	5.644	82	1170443	50.45	ppm	97
26) 2-Nitrophenol	5.715	139	344207	52.33	ppm	93
27) 2,4-Dimethylphenol	5.781	107	575241	47.92	ppm	100
28) bis(2-Chloroethoxy)met...	5.843	93	665881	50.55	ppm	99
29) Benzoic Acid	5.926	105	391967m	42.93	ppm	
30) 2,4-Dichlorophenol	5.940	162	496385	51.22	ppm	97
31) 1,2,4-Trichlorobenzene	5.988	180	493611	49.97	ppm	97
32) Naphthalene	6.039	128	1606243	49.27	ppm	92

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\sx1832\
Data File : x039417.D
Acq On : 7 Apr 2015 12:55 pm
Operator : marthav
Sample : cc1826-50
Misc : op55570,sx1832,1000,,,1,1,water
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Apr 09 09:56:14 2015
Quant Method : C:\msdchem\1\METHODS\8270d_03302.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Thu Apr 09 09:56:01 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
33) 4-Chloroaniline	6.116	127	734966	48.82	ppm		96
34) 2,6-Dichlorophenol	5.940	162	496385	51.22	ppm		100
35) Hexachlorobutadiene	6.204	225	280634	50.84	ppm		98
36) Caprolactam	6.431	113	199520	50.75	ppm	#	66
37) 4-Chloro-3-methylphenol	6.574	107	536433	51.06	ppm		97
38) 2-Methylnaphthalene	6.639	142	1162731	50.25	ppm		99
39) 1-Methylnaphthalene	6.733	142	1028413	50.05	ppm		96
40) 1,2,4,5-Tetrachloroben...	6.824	216	496867	51.48	ppm		98
42) Hexachlorocyclopentadiene	6.844	237	325280	51.19	ppm		100
43) 2,4,6-Trichlorophenol	6.926	196	342004	50.96	ppm		97
44) 2,4,5-Trichlorophenol	6.983	196	350164	48.96	ppm		96
46) 1,1'-Biphenyl	7.057	154	1278490	47.33	ppm		91
47) 2-Chloronaphthalene	7.062	162	1013602	48.56	ppm		96
48) 2-Nitroaniline	7.190	65	407919	52.16	ppm		92
49) p-Dinitrobenzene	7.287	75	254193	53.83	ppm		95
50) Dimethylphthalate	7.383	163	1153898	49.09	ppm		96
51) m-Dinitrobenzene	7.389	168	205983	51.85	ppm		80
52) 2,6-Dinitrotoluene	7.437	165	272413	49.42	ppm		89
53) o-Dinitrobenzene	7.497	50	251287	51.31	ppm		93
54) Acenaphthylene	7.432	152	1598421	48.63	ppm		92
55) 3-Nitroaniline	7.190	138	404966	51.31	ppm		99
56) Acenaphthene	7.596	153	1020172	48.23	ppm		96
57) 2,4-Dinitrophenol	7.642	184	149005	47.41	ppm		95
58) 4-Nitrophenol	7.770	109	177010	48.88	ppm		99
59) Dibenzofuran	7.736	168	1446667	49.01	ppm		87
60) 2,4-Dinitrotoluene	7.776	165	388026	51.70	ppm		84
61) 2,3,5,6-Tetrachlorophenol	7.855	232	295344	52.41	ppm		100
62) 2,3,4,6-Tetrachlorophenol	7.892	232	276149	50.06	ppm		100
63) Diethylphthalate	8.006	149	1198612	49.39	ppm		100
64) Fluorene	8.037	166	1195839	49.47	ppm		100
65) 4-Chlorophenyl-phenyle...	8.040	204	551453	50.45	ppm		96
66) 4-Nitroaniline	8.105	138	273470	46.52	ppm		89
68) 4,6-Dinitro-2-methylph...	8.136	198	221554	51.31	ppm		82
69) Diphenylamine	8.156	169	1012042	48.49	ppm		100
70) n-Nitrosodiphenylamine	8.156	169	1012042	58.19	ppm		92
71) 1,2-Diphenylhydrazine	8.179	77	1241153	48.75	ppm		97
73) 4-Bromophenyl-phenylether	8.463	248	294823	50.19	ppm		91
74) Hexachlorobenzene	8.591	284	284671	50.46	ppm		93
75) Simazine	8.634	201	153254	42.83	ppm		99
76) Atrazine	8.665	200	324730	46.52	ppm		81
77) Pentachlorophenol	8.761	266	197996	54.37	ppm		95
78) Phenanthrene	8.875	178	1613317	48.83	ppm		96
79) Anthracene	8.915	178	1611442	48.89	ppm		94
80) Carbazole	9.066	167	1429026	45.85	ppm		96
81) Di-n-butylphthalate	9.429	149	1864105	48.07	ppm		97
82) Fluoranthene	9.926	202	1694909	49.62	ppm		93
84) Benzidine	10.052	184	532071	39.00	ppm		99
85) Pyrene	10.125	202	1760279	51.20	ppm		92
87) Butylbenzylphthalate	10.836	149	868090	52.86	ppm		100
88) 3,3'-Dichlorobenzidine	11.432	252	399107	53.76	ppm		100

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\sx1832\
Data File : x039417.D
Acq On : 7 Apr 2015 12:55 pm
Operator : marthav
Sample : cc1826-50
Misc : op55570,sx1832,1000,,,1,1,water
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Apr 09 09:56:14 2015
Quant Method : C:\msdchem\1\METHODS\8270d_03302.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Thu Apr 09 09:56:01 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
89) Benzo[a]anthracene	11.424	228	1420528	52.94 ppm	100
90) Chrysene	11.486	228	1347638	52.93 ppm	100
91) bis(2-Ethylhexyl)phtha...	11.609	149	1138462	52.35 ppm	100
93) Di-n-octylphthalate	12.569	149	1776228	58.00 ppm	98
94) Benzo[b]fluoranthene	13.055	252	1074256	56.06 ppm	99
95) Benzo[k]fluoranthene	13.100	252	1055386	53.69 ppm	97
96) Benzo[a]pyrene	13.603	252	940325	54.69 ppm	98
97) Indeno[1,2,3-cd]pyrene	15.723	276	550194	46.92 ppm	99
98) Dibenz[a,h]anthracene	15.791	278	500635	46.00 ppm	96
99) Benzo[g,h,i]perylene	16.203	276	581271	45.50 ppm	98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

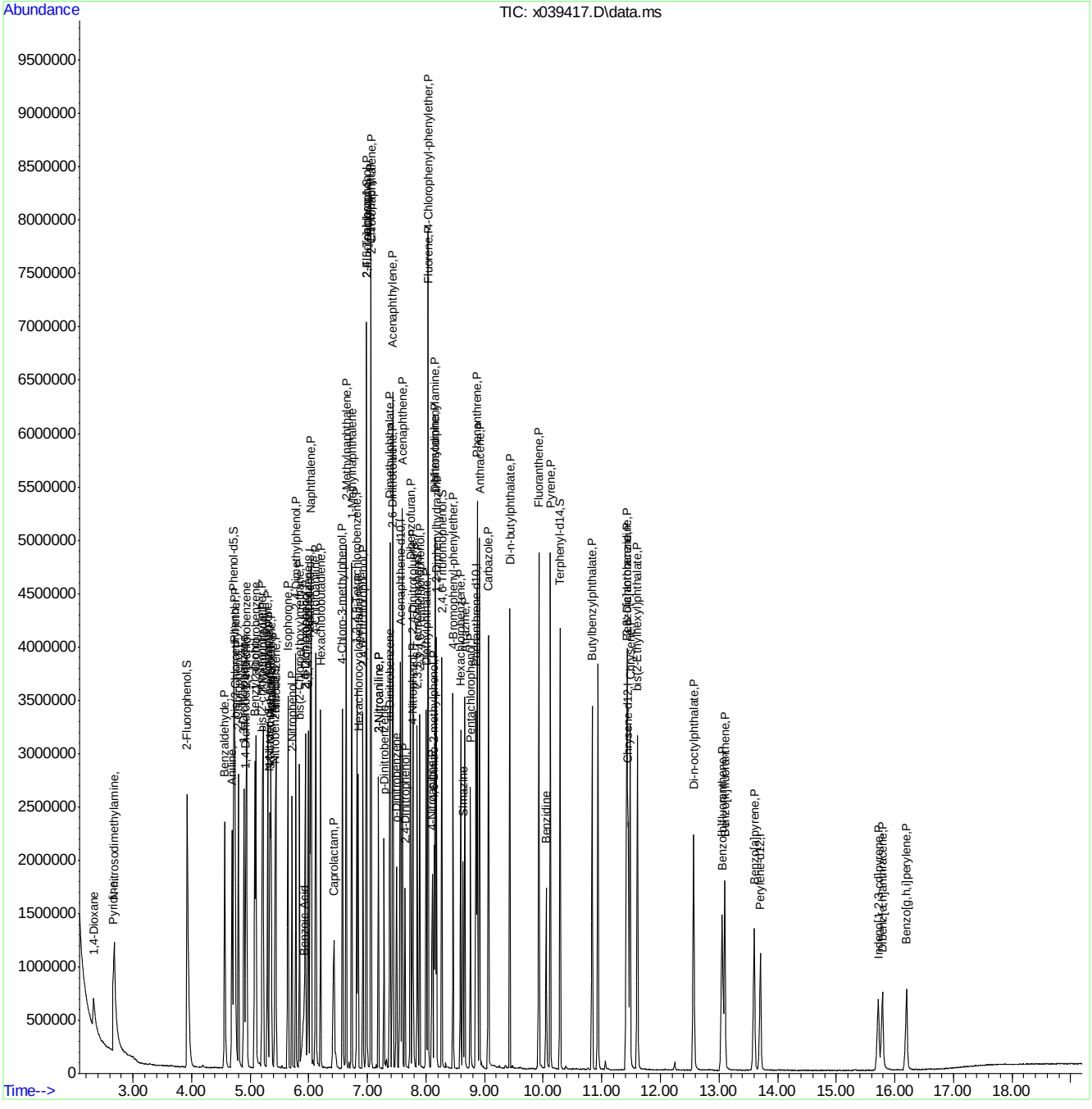
7.6.44

7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\sx1832\
Data File : x039417.D
Acq On : 7 Apr 2015 12:55 pm
Operator : marthav
Sample : cc1826-50
Misc : op55570,sx1832,1000,,,1,1,water
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Apr 09 09:56:14 2015
Quant Method : C:\msdchem\1\METHODS\8270d_03302.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Thu Apr 09 09:56:01 2015
Response via : Initial Calibration



Manual Integration Approval Summary

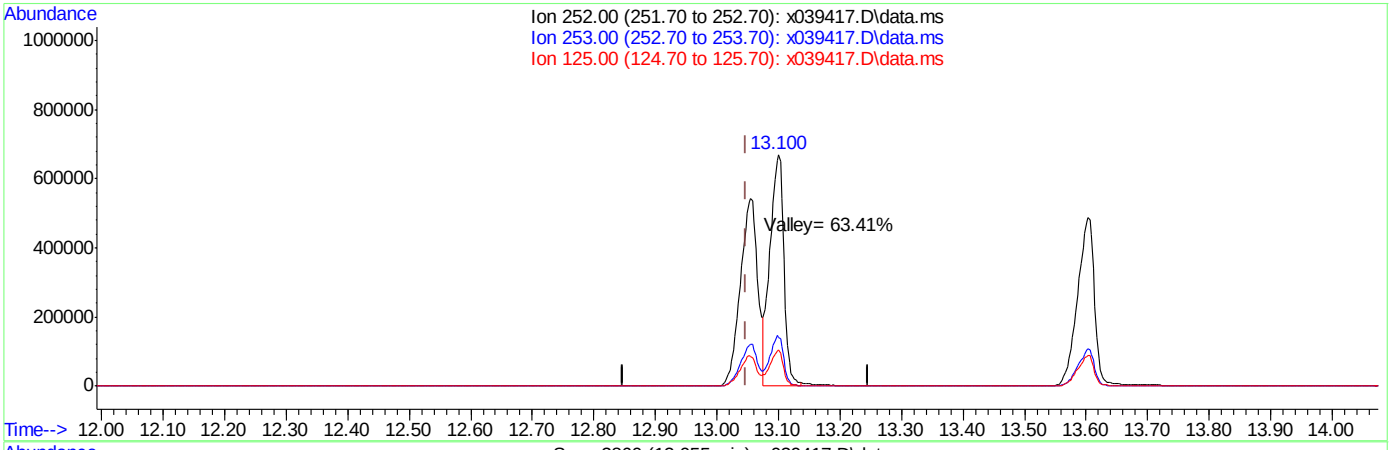
Sample Number:	SX1832-CC1826	**Method:**	SW846 8270D
Lab FileID:	X039417.D	**Analyst approved:**	04/09/15 10:15 Martha Valls
Injection Time:	04/07/15 12:55	**Supervisor approved:**	04/09/15 11:03 Naresh Jiawan

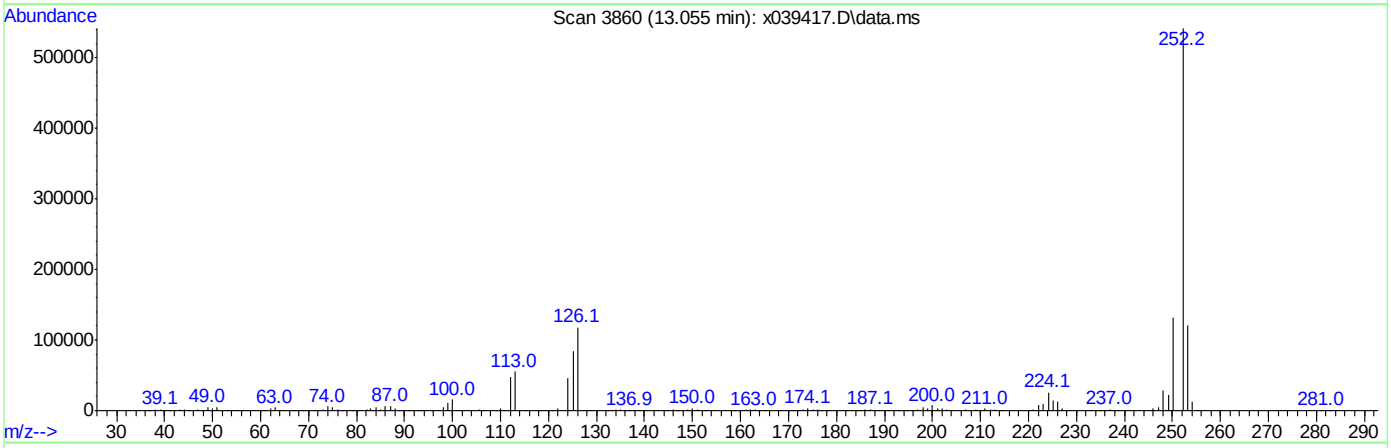
Parameter	CAS	Sig#	R.T. (min.)	Reason
Benzoic Acid	65-85-0		5.93	Split peak

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\sx1832\
Data File : x039417.D
Acq On : 7 Apr 2015 12:55 pm
Operator : marthav
Sample : cc1826-50
Misc : op55570,sx1832,1000,,,1,1,water
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Apr 08 14:12:51 2015
Quant Method : C:\msdchem\1\METHODS\8270d_03302.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Wed Apr 08 14:12:48 2015
Response via : Initial Calibration





TIC: x039417.D\data.ms

(94) Benzo[b]fluoranthene (P)

13.055min (+0.007) 56.06ppm

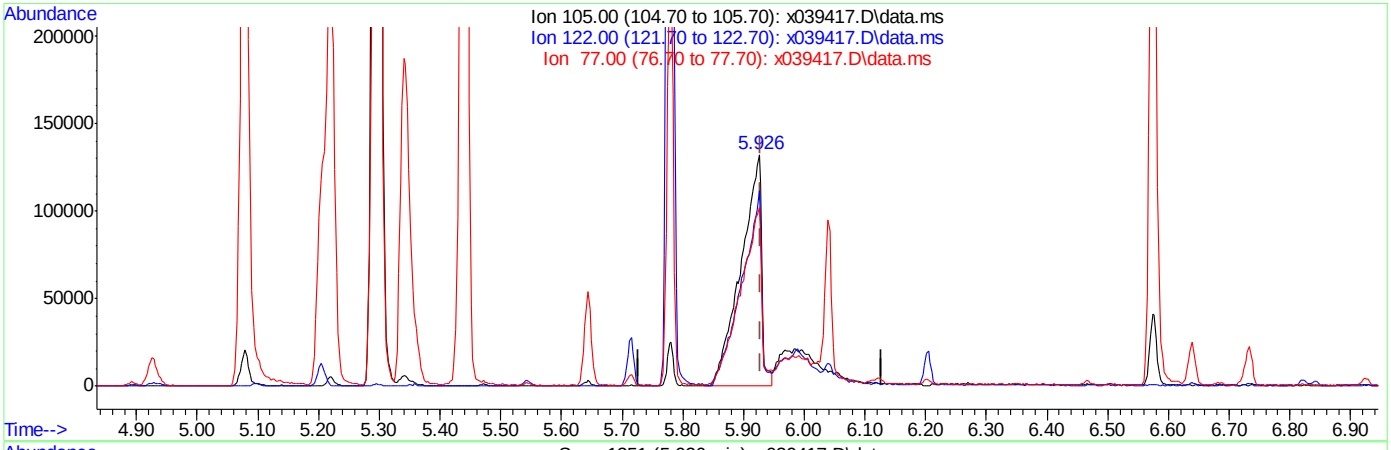
response 1074256

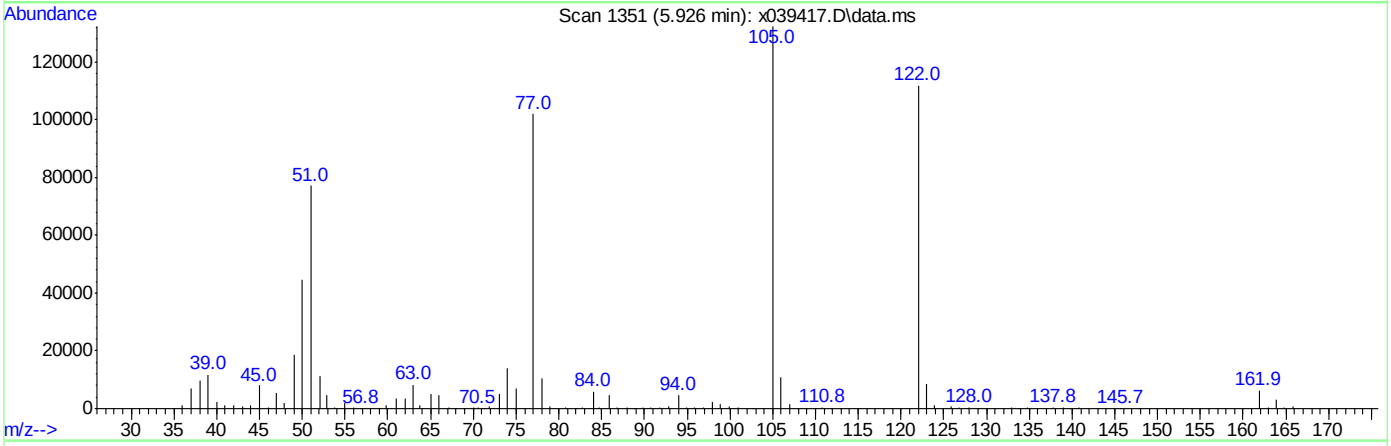
Ion	Exp%	Act%
252.00	100	100
253.00	22.40	22.10
125.00	14.60	15.32
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\sx1832\
Data File : x039417.D
Acq On : 7 Apr 2015 12:55 pm
Operator : marthav
Sample : cc1826-50
Misc : op55570,sx1832,1000,,,1,1,water
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Apr 08 14:14:16 2015
Quant Method : C:\msdchem\1\METHODS\8270d_03302.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Wed Apr 08 14:14:14 2015
Response via : Initial Calibration





TIC: x039417.D\data.ms

(29) Benzoic Acid

5.926min (-0.003) 34.41ppm

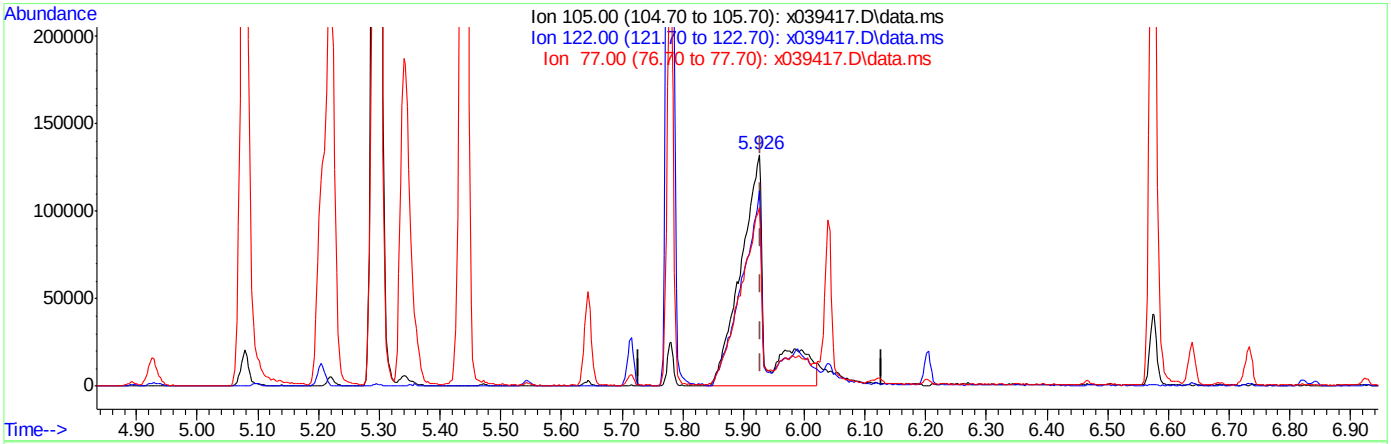
response 314140

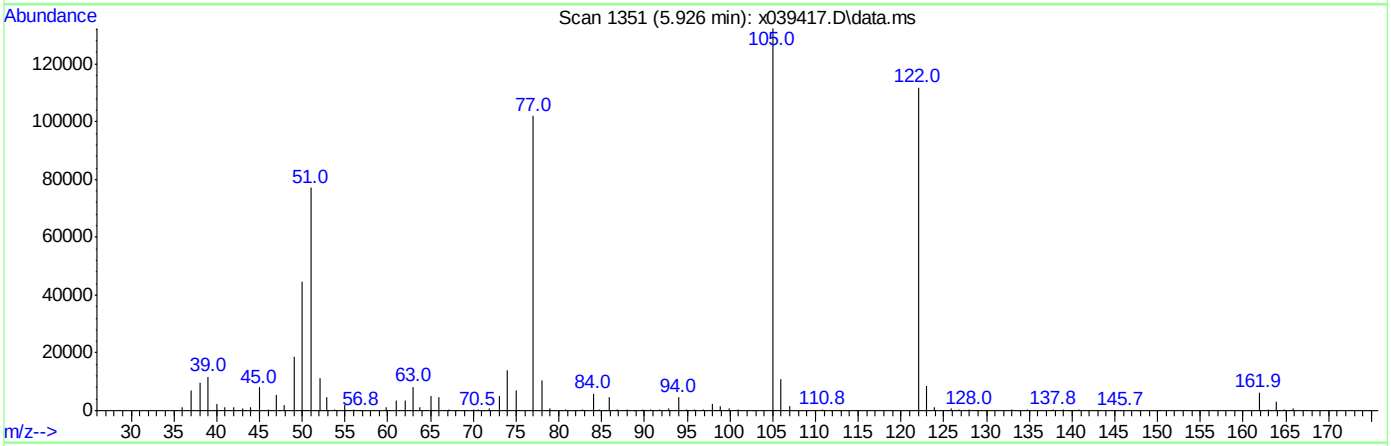
Ion	Exp%	Act%
105.00	100	100
122.00	83.70	84.34
77.00	75.60	75.74
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\sx1832\
Data File : x039417.D
Acq On : 7 Apr 2015 12:55 pm
Operator : marthav
Sample : cc1826-50
Misc : op55570,sx1832,1000,,,1,1,water
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Apr 09 09:56:05 2015
Quant Method : C:\msdchem\1\METHODS\8270d_03302.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Thu Apr 09 09:56:01 2015
Response via : Initial Calibration





TIC: x039417.D\data.ms

(29) Benzoic Acid

5.926min (-0.003) 42.93ppm m

response 391967

Ion	Exp%	Act%
105.00	100	100
122.00	83.70	84.54
77.00	75.60	77.10
0.00	0.00	0.00

Manual Integrations APPROVED (compounds with "m" flag)
Naresh Jiawan
04/09/15 11:03

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\sx1832\
Data File : x039439.D
Acq On : 8 Apr 2015 8:36 am
Operator : marthav
Sample : ecc1826-50
Misc : op55570,sx1832,100,,,1,1,water
ALS Vial : 25 Sample Multiplier: 1

Quant Time: Apr 09 09:59:44 2015
Quant Method : C:\msdchem\1\METHODS\8270d_03302.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Tue Mar 31 09:29:41 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.920	152	214468	40.00	ppm	0.00
22) Naphthalene-d8	6.020	136	824556	40.00	ppm	0.00
41) Acenaphthene-d10	7.565	164	441372	40.00	ppm	0.00
67) Phenanthrene-d10	8.850	188	715992	40.00	ppm	0.00
83) Chrysene-d12	11.444	240	565049	40.00	ppm	0.00
92) Perylene-d12	13.697	264	410594	40.00	ppm	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	3.920	112	788317	102.67	ppm	0.00
Spiked Amount 100.000	Range 14 - 67		Recovery = 102.67%#			
9) Phenol-d5	4.712	99	796518	101.99	ppm	0.00
Spiked Amount 100.000	Range 10 - 50		Recovery = 101.99%#			
23) Nitrobenzene-d5	5.420	82	428337	49.04	ppm	-0.02
Spiked Amount 50.000	Range 42 - 108		Recovery = 98.08%			
45) 2-Fluorobiphenyl	6.980	172	755873	50.53	ppm	0.00
Spiked Amount 50.000	Range 40 - 106		Recovery = 101.06%			
72) 2,4,6-Tribromophenol	8.267	330	161191	100.22	ppm	0.00
Spiked Amount 100.000	Range 33 - 118		Recovery = 100.22%			
86) Terphenyl-d14	10.285	244	709599	54.96	ppm	0.02
Spiked Amount 50.000	Range 39 - 121		Recovery = 109.92%			
Target Compounds						Qvalue
2) 1,4-Dioxane	2.300	88	189203	56.22	ppm	95
3) N-nitrosodimethylamine	2.647	42	263547	53.84	ppm	93
4) Pyridine	2.635	79	467525	52.27	ppm	95
6) Benzaldehyde	4.556	106	255842	38.91	ppm	97
7) Aniline	4.684	93	564757	49.76	ppm	93
8) bis(2-Chloroethyl)ether	4.735	93	357475	48.51	ppm	85
10) Phenol	4.724	94	486499	47.61	ppm	98
11) 2-Chlorophenol	4.792	128	409827	49.82	ppm	96
12) 1,3-Dichlorobenzene	4.889	146	430609	49.27	ppm	98
13) 1,4-Dichlorobenzene	4.934	146	441309	50.48	ppm	99
14) 1,2-Dichlorobenzene	5.093	146	410531	49.28	ppm	98
15) Benzyl alcohol	5.073	108	267656	50.71	ppm	97
16) 2-Methylphenol	5.215	108	351884	49.13	ppm	92
17) bis(2-chloroisopropyl)...	5.201	45	682940	52.79	ppm	86
18) Acetophenone	5.289	105	516105	47.66	ppm	95
19) N-Nitroso-di-n-propyla...	5.321	70	216809	51.16	ppm	90
20) 3&4-Methylphenol	5.340	108	380031	50.56	ppm	95
21) Hexachloroethane	5.355	117	173970	48.61	ppm	84
24) Nitrobenzene	5.434	77	404841	48.96	ppm	97
25) Isophorone	5.636	82	737525	48.75	ppm	97
26) 2-Nitrophenol	5.710	139	217063	50.61	ppm	96
27) 2,4-Dimethylphenol	5.775	107	388435	49.62	ppm	97
28) bis(2-Chloroethoxy)met...	5.838	93	424089	49.37	ppm	98
29) Benzoic Acid	5.900	105	244857m	41.13	ppm	
30) 2,4-Dichlorophenol	5.937	162	313901	49.68	ppm	97
31) 1,2,4-Trichlorobenzene	5.985	180	321080	49.85	ppm	99
32) Naphthalene	6.037	128	1059064	49.82	ppm	90

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\sx1832\
Data File : x039439.D
Acq On : 8 Apr 2015 8:36 am
Operator : marthav
Sample : ecc1826-50
Misc : op55570,sx1832,100,,,1,1,water
ALS Vial : 25 Sample Multiplier: 1

Quant Time: Apr 09 09:59:44 2015
Quant Method : C:\msdchem\1\METHODS\8270d_03302.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Tue Mar 31 09:29:41 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
33) 4-Chloroaniline	6.108	127	476827	48.58	ppm		95
34) 2,6-Dichlorophenol	5.937	162	313901	49.68	ppm		99
35) Hexachlorobutadiene	6.201	225	178612	49.63	ppm		99
36) Caprolactam	6.409	113	123649	48.24	ppm	#	61
37) 4-Chloro-3-methylphenol	6.571	107	333200	48.65	ppm	#	32
38) 2-Methylnaphthalene	6.636	142	752959	49.91	ppm		97
39) 1-Methylnaphthalene	6.730	142	659304	49.21	ppm		97
40) 1,2,4,5-Tetrachloroben...	6.821	216	308329	48.99	ppm		97
42) Hexachlorocyclopentadiene	6.841	237	141492	35.77	ppm		95
43) 2,4,6-Trichlorophenol	6.923	196	216056	51.73	ppm		99
44) 2,4,5-Trichlorophenol	6.983	196	226083	50.78	ppm		95
46) 1,1'-Biphenyl	7.054	154	849551	50.52	ppm		89
47) 2-Chloronaphthalene	7.059	162	644492	49.60	ppm		96
48) 2-Nitroaniline	7.185	65	246866	50.72	ppm		93
49) p-Dinitrobenzene	7.281	75	146146	49.72	ppm		93
50) Dimethylphthalate	7.375	163	746038	50.99	ppm		95
51) m-Dinitrobenzene	7.383	168	123926	50.12	ppm		84
52) 2,6-Dinitrotoluene	7.432	165	172497	50.28	ppm		94
53) o-Dinitrobenzene	7.489	50	150896	49.50	ppm		91
54) Acenaphthylene	7.429	152	1033289	50.51	ppm		90
55) 3-Nitroaniline	7.185	138	247498	50.38	ppm		99
56) Acenaphthene	7.591	153	669589	50.85	ppm		97
57) 2,4-Dinitrophenol	7.636	184	62840	33.55	ppm		94
58) 4-Nitrophenol	7.767	109	108966	48.37	ppm		93
59) Dibenzofuran	7.730	168	938572	51.08	ppm		91
60) 2,4-Dinitrotoluene	7.770	165	236752	50.68	ppm		83
61) 2,3,5,6-Tetrachlorophenol	7.849	232	179299	51.12	ppm		96
62) 2,3,4,6-Tetrachlorophenol	7.889	232	173608	50.56	ppm		98
63) Diethylphthalate	7.997	149	775983	51.37	ppm		98
64) Fluorene	8.031	166	759524	50.47	ppm		98
65) 4-Chlorophenyl-phenyle...	8.037	204	344104	50.58	ppm		93
66) 4-Nitroaniline	8.097	138	191844	52.42	ppm		87
68) 4,6-Dinitro-2-methylph...	8.128	198	101874	38.10	ppm	#	57
69) Diphenylamine	8.153	169	640290	48.19	ppm		99
70) n-Nitrosodiphenylamine	8.153	169	640290	57.82	ppm		92
71) 1,2-Diphenylhydrazine	8.176	77	777858	47.99	ppm		99
73) 4-Bromophenyl-phenylether	8.460	248	182654	48.84	ppm		86
74) Hexachlorobenzene	8.588	284	172862	48.13	ppm		91
75) Simazine	8.625	201	91914	40.35	ppm		97
76) Atrazine	8.656	200	204444	46.00	ppm		79
77) Pentachlorophenol	8.756	266	115520	49.82	ppm		98
78) Phenanthrene	8.869	178	1012995	48.16	ppm		97
79) Anthracene	8.909	178	1041961	49.66	ppm		99
80) Carbazole	9.060	167	996074	50.20	ppm		99
81) Di-n-butylphthalate	9.426	149	1218434	49.35	ppm		99
82) Fluoranthene	9.921	202	1065486	49.00	ppm		96
84) Benzidine	10.046	184	370181	44.65	ppm		99
85) Pyrene	10.120	202	1093176	52.34	ppm		90
87) Butylbenzylphthalate	10.830	149	520413	52.15	ppm		98
88) 3,3'-Dichlorobenzidine	11.424	252	265526	58.87	ppm		97

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\sx1832\
Data File : x039439.D
Acq On : 8 Apr 2015 8:36 am
Operator : marthav
Sample : ecc1826-50
Misc : op55570,sx1832,100,,,1,1,water
ALS Vial : 25 Sample Multiplier: 1

Quant Time: Apr 09 09:59:44 2015
Quant Method : C:\msdchem\1\METHODS\8270d_03302.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Tue Mar 31 09:29:41 2015
Response via : Initial Calibration

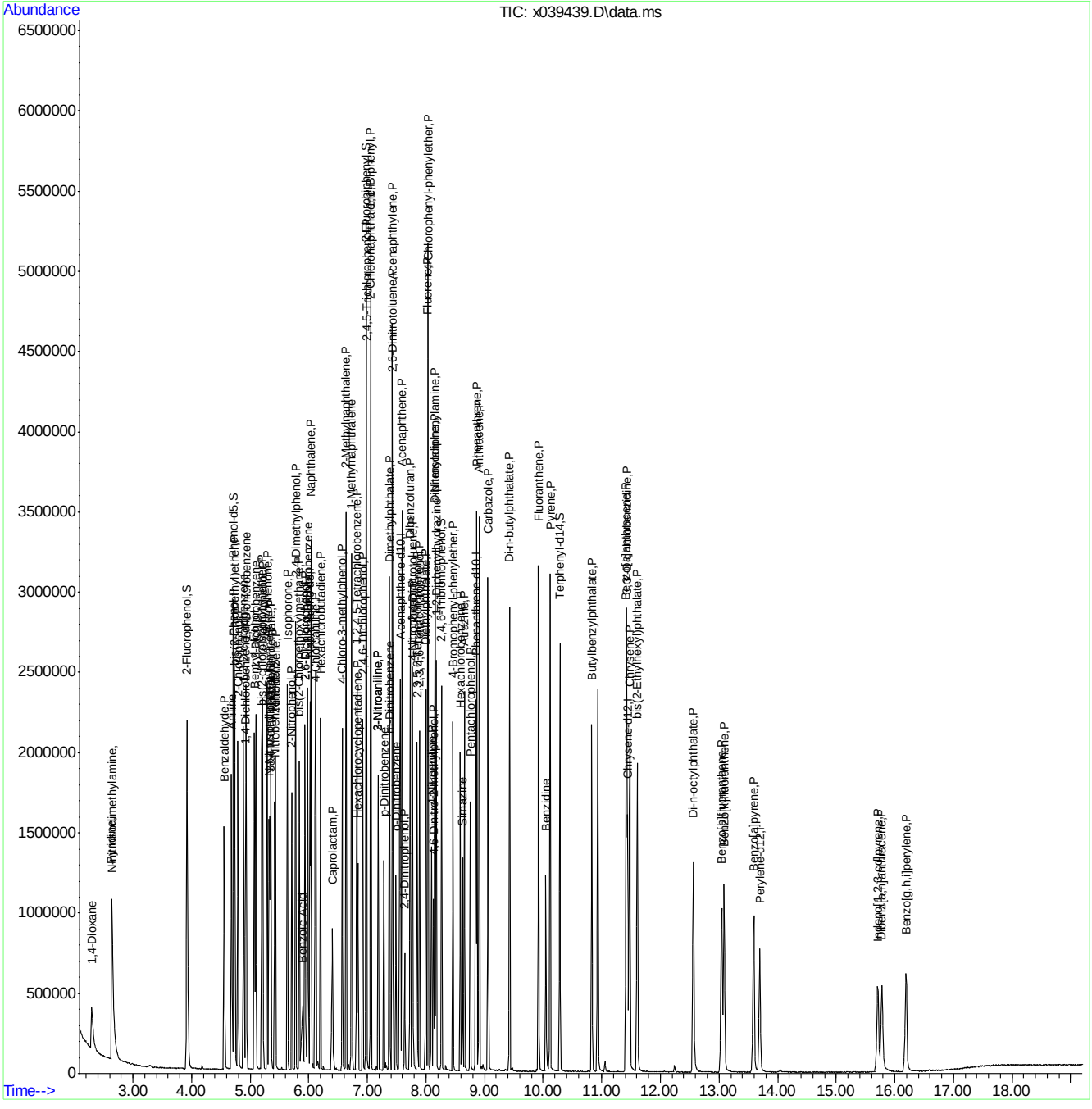
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
89) Benzo[a]anthracene	11.418	228	890301	54.61 ppm	98
90) Chrysene	11.475	228	844980	54.62 ppm	99
91) bis(2-Ethylhexyl)phtha...	11.606	149	702703	53.19 ppm	100
93) Di-n-octylphthalate	12.563	149	1071147	50.94 ppm	97
94) Benzo[b]fluoranthene	13.046	252	689626	52.41 ppm	97
95) Benzo[k]fluoranthene	13.092	252	692256	51.29 ppm	98
96) Benzo[a]pyrene	13.592	252	638348	54.07 ppm	99
97) Indeno[1,2,3-cd]pyrene	15.712	276	439949	53.88 ppm	98
98) Dibenz[a,h]anthracene	15.780	278	406933	53.32 ppm	98
99) Benzo[g,h,i]perylene	16.195	276	469308	53.50 ppm	100

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\sx1832\
Data File : x039439.D
Acq On : 8 Apr 2015 8:36 am
Operator : marthav
Sample : ecc1826-50
Misc : op55570,sx1832,100,,,1,1,water
ALS Vial : 25 Sample Multiplier: 1

Quant Time: Apr 09 09:59:44 2015
Quant Method : C:\msdchem\1\METHODS\8270d_03302.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Tue Mar 31 09:29:41 2015
Response via : Initial Calibration



ACCUTEST LABORATORIES FA23258

Manual Integration Approval Summary

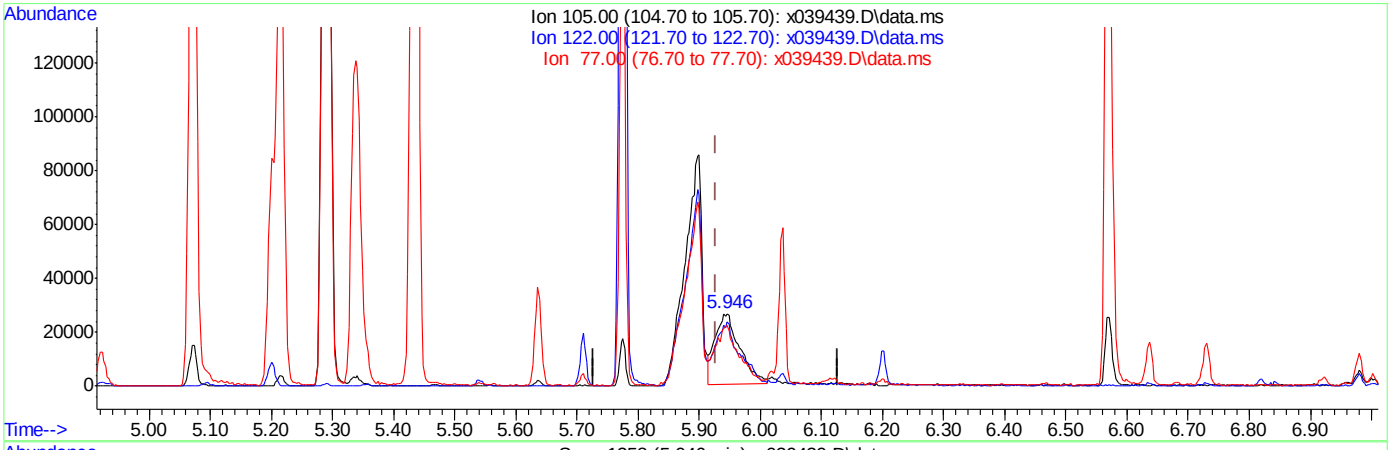
Sample Number:	SX1832-ECC1826	**Method:**	SW846 8270D
Lab FileID:	X039439.D	**Analyst approved:**	04/09/15 10:15 Martha Valls
Injection Time:	04/08/15 08:36	**Supervisor approved:**	04/09/15 11:03 Naresh Jiawan

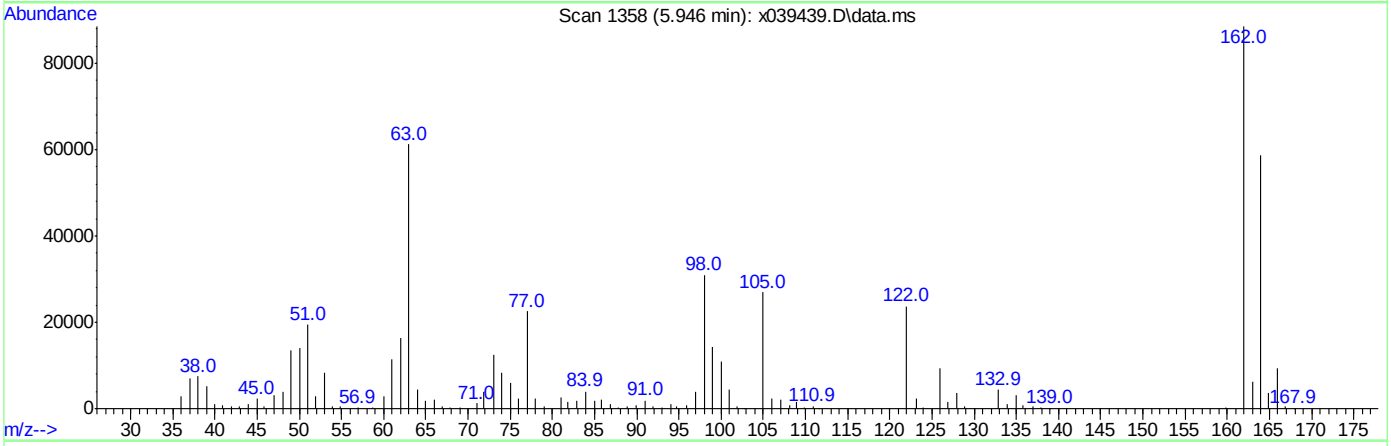
Parameter	CAS	Sig#	R.T. (min.)	Reason
Benzoic Acid	65-85-0		5.90	Split peak

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\sx1832\
Data File : x039439.D
Acq On : 8 Apr 2015 8:36 am
Operator : marthav
Sample : ecc1826-50
Misc : op55570,sx1832,100,,,1,1,water
ALS Vial : 25 Sample Multiplier: 1

Quant Time: Apr 08 14:17:28 2015
Quant Method : C:\msdchem\1\METHODS\8270d_03302.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Tue Mar 31 09:29:41 2015
Response via : Initial Calibration





TIC: x039439.D\data.ms

(29) Benzoic Acid

5.946min (+0.017) 12.53ppm

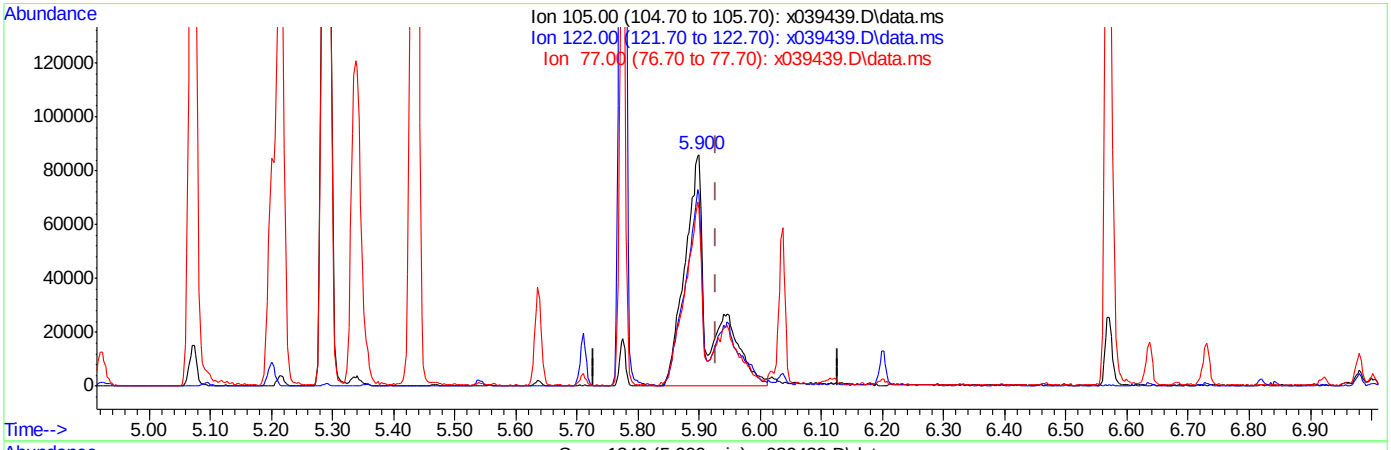
response 74612

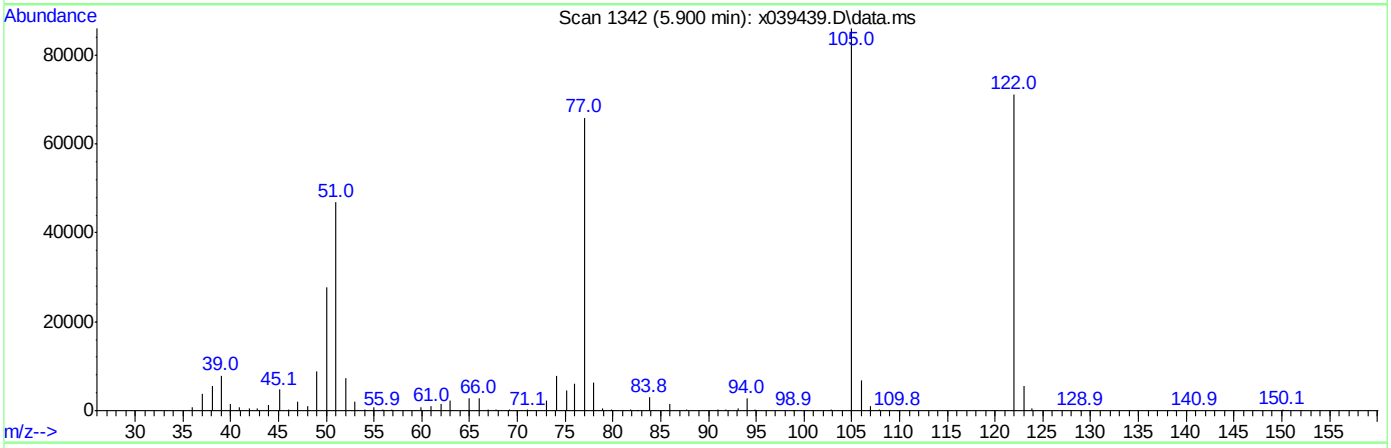
Ion	Exp%	Act%
105.00	100	100
122.00	83.70	91.33
77.00	75.60	81.62
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\sx1832\
Data File : x039439.D
Acq On : 8 Apr 2015 8:36 am
Operator : marthav
Sample : ecc1826-50
Misc : op55570,sx1832,100,,,1,1,water
ALS Vial : 25 Sample Multiplier: 1

Quant Time: Apr 08 14:17:28 2015
Quant Method : C:\msdchem\1\METHODS\8270d_03302.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Tue Mar 31 09:29:41 2015
Response via : Initial Calibration





TIC: x039439.D\data.ms

(29) Benzoic Acid

5.900min (-0.028) 41.19ppm m

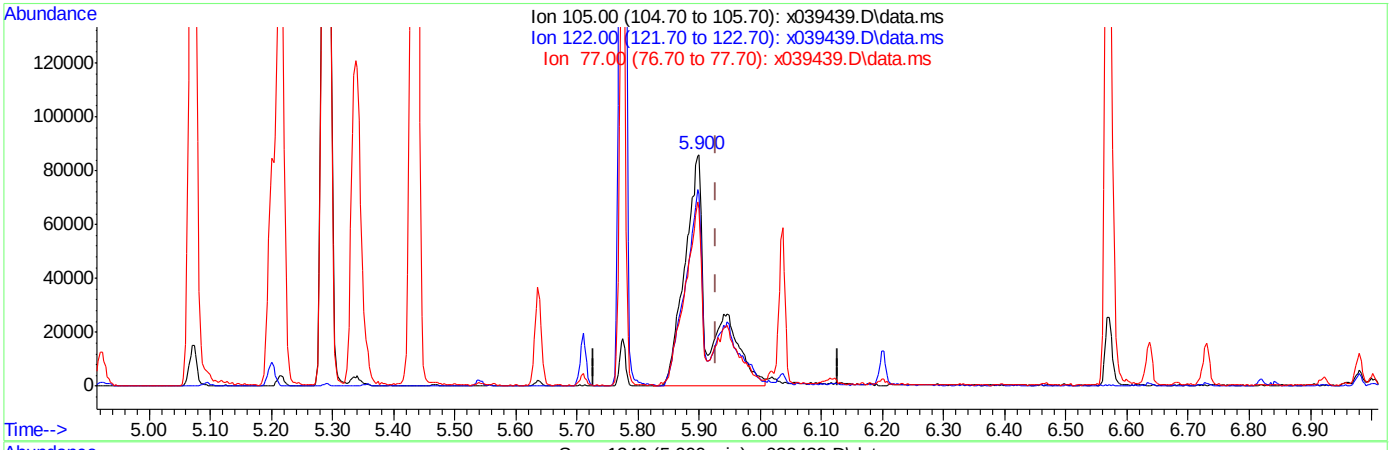
response 245203

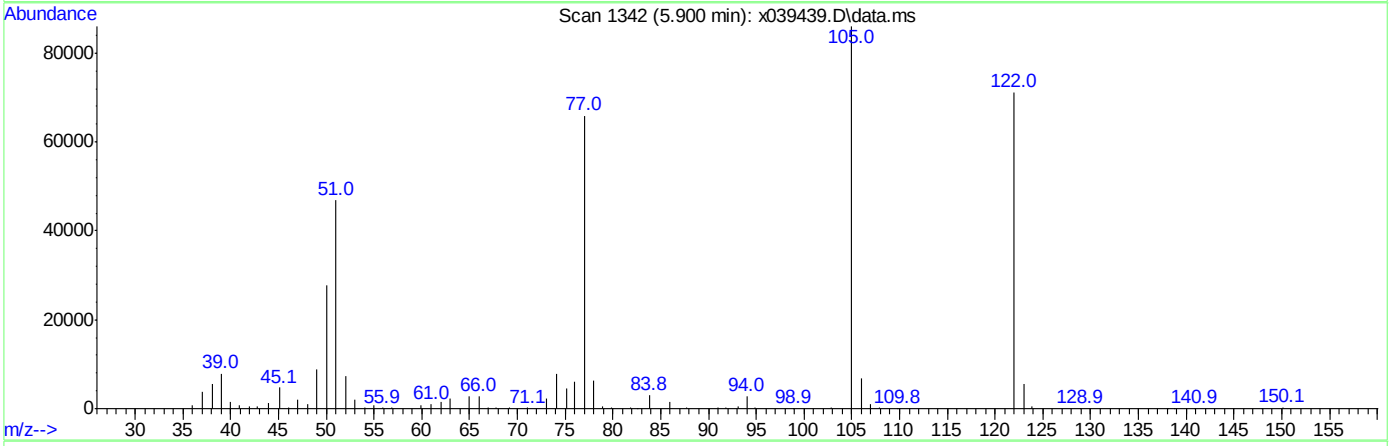
Ion	Exp%	Act%
105.00	100	100
122.00	83.70	82.85
77.00	75.60	76.60
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\sx1832\
Data File : x039439.D
Acq On : 8 Apr 2015 8:36 am
Operator : marthav
Sample : ecc1826-50
Misc : op55570,sx1832,100,,,1,1,water
ALS Vial : 25 Sample Multiplier: 1

Quant Time: Apr 09 09:59:32 2015
Quant Method : C:\msdchem\1\METHODS\8270d_03302.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Tue Mar 31 09:29:41 2015
Response via : Initial Calibration





TIC: x039439.D\data.ms

(29) Benzoic Acid

5.900min (-0.028) 41.13ppm m

response 244857

Ion	Exp%	Act%
105.00	100	100
122.00	83.70	82.85
77.00	75.60	76.60
0.00	0.00	0.00

Manual Integrations APPROVED (compounds with "m" flag)
Mike Eger
04/09/15 15:53

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\sx1833\
Data File : x039441.D
Acq On : 8 Apr 2015 2:17 pm
Operator : marthav
Sample : cc1826-50
Misc : op55570,sx1833,1000,,,1,1,water
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Apr 09 10:48:41 2015
Quant Method : C:\msdchem\1\METHODS\8270d_03302.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Thu Apr 09 10:47:59 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.906	152	277008	40.00	ppm	0.00
22) Naphthalene-d8	6.002	136	1033861	40.00	ppm	0.00
41) Acenaphthene-d10	7.545	164	577856	40.00	ppm	0.00
67) Phenanthrene-d10	8.830	188	911255	40.00	ppm	0.00
83) Chrysene-d12	11.415	240	740063	40.00	ppm	0.00
92) Perylene-d12	13.663	264	494884	40.00	ppm	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	3.903	112	990097	99.83	ppm	0.00
Spiked Amount 100.000	Range 14 - 67		Recovery = 99.83%#			
9) Phenol-d5	4.698	99	997138	98.86	ppm	0.00
Spiked Amount 100.000	Range 10 - 50		Recovery = 98.86%#			
23) Nitrobenzene-d5	5.406	82	549042	50.14	ppm	-0.01
Spiked Amount 50.000	Range 42 - 108		Recovery = 100.28%			
45) 2-Fluorobiphenyl	6.963	172	939067	47.95	ppm	0.00
Spiked Amount 50.000	Range 40 - 106		Recovery = 95.90%			
72) 2,4,6-Tribromophenol	8.247	330	212708	103.91	ppm	0.00
Spiked Amount 100.000	Range 33 - 118		Recovery = 103.91%			
86) Terphenyl-d14	10.262	244	893632	52.85	ppm	0.03
Spiked Amount 50.000	Range 39 - 121		Recovery = 105.70%			
Target Compounds						Qvalue
2) 1,4-Dioxane	2.289	88	236239	54.34	ppm	96
3) N-nitrosodimethylamine	2.644	42	327149	51.74	ppm	95
4) Pyridine	2.627	79	618947	53.58	ppm	99
6) Benzaldehyde	4.545	106	414072	54.76	ppm	96
7) Aniline	4.670	93	710921	48.49	ppm	89
8) bis(2-Chloroethyl)ether	4.724	93	456108	47.92	ppm	93
10) Phenol	4.707	94	620900	47.04	ppm	99
11) 2-Chlorophenol	4.778	128	517083	48.67	ppm	95
12) 1,3-Dichlorobenzene	4.874	146	548564	48.60	ppm	100
13) 1,4-Dichlorobenzene	4.920	146	553056	48.98	ppm	97
14) 1,2-Dichlorobenzene	5.079	146	518172	48.16	ppm	99
15) Benzyl alcohol	5.059	108	343661	50.41	ppm	97
16) 2-Methylphenol	5.198	108	440987	47.67	ppm	94
17) bis(2-chloroisopropyl)...	5.184	45	819112	47.69	ppm	86
18) Acetophenone	5.278	105	668940	47.83	ppm	98
19) N-Nitroso-di-n-propyla...	5.309	70	259325	47.38	ppm	95
20) 3&4-Methylphenol	5.320	108	482628	49.72	ppm	98
21) Hexachloroethane	5.338	117	226751	49.05	ppm	80
24) Nitrobenzene	5.420	77	513417	49.52	ppm	97
25) Isophorone	5.622	82	933259	49.20	ppm	97
26) 2-Nitrophenol	5.696	139	283335	52.69	ppm	96
27) 2,4-Dimethylphenol	5.758	107	478733	48.78	ppm	96
28) bis(2-Chloroethoxy)met...	5.823	93	532554	49.45	ppm	97
29) Benzoic Acid	5.894	105	331373m	44.40	ppm	
30) 2,4-Dichlorophenol	5.920	162	401220	50.64	ppm	98
31) 1,2,4-Trichlorobenzene	5.971	180	401193	49.68	ppm	99
32) Naphthalene	6.019	128	1306898	49.03	ppm	92

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\sx1833\
Data File : x039441.D
Acq On : 8 Apr 2015 2:17 pm
Operator : marthav
Sample : cc1826-50
Misc : op55570,sx1833,1000,,,1,1,water
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Apr 09 10:48:41 2015
Quant Method : C:\msdchem\1\METHODS\8270d_03302.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Thu Apr 09 10:47:59 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
33) 4-Chloroaniline	6.096	127	593648	48.24	ppm		97
34) 2,6-Dichlorophenol	5.920	162	401220	50.64	ppm		99
35) Hexachlorobutadiene	6.184	225	227196	50.35	ppm		98
36) Caprolactam	6.400	113	165532m	51.50	ppm		
37) 4-Chloro-3-methylphenol	6.554	107	428598	49.91	ppm		97
38) 2-Methylnaphthalene	6.619	142	951320	50.29	ppm		99
39) 1-Methylnaphthalene	6.713	142	833130	49.60	ppm		98
40) 1,2,4,5-Tetrachloroben...	6.804	216	403463	51.13	ppm		99
42) Hexachlorocyclopentadiene	6.824	237	262267	50.65	ppm		99
43) 2,4,6-Trichlorophenol	6.906	196	271323	49.61	ppm		97
44) 2,4,5-Trichlorophenol	6.963	196	280314	48.09	ppm		97
46) 1,1'-Biphenyl	7.037	154	1093166	49.66	ppm		89
47) 2-Chloronaphthalene	7.042	162	813220	47.80	ppm		97
48) 2-Nitroaniline	7.167	65	319620	50.15	ppm		94
49) p-Dinitrobenzene	7.264	75	200169	52.01	ppm		95
50) Dimethylphthalate	7.361	163	936887	48.91	ppm		95
51) m-Dinitrobenzene	7.366	168	162880	50.31	ppm	#	69
52) 2,6-Dinitrotoluene	7.415	165	223613	49.78	ppm		95
53) o-Dinitrobenzene	7.474	50	198623	49.77	ppm		95
54) Acenaphthylene	7.409	152	1314878	49.09	ppm		90
55) 3-Nitroaniline	7.167	138	323963	50.37	ppm		99
56) Acenaphthene	7.574	153	848790	49.24	ppm		97
57) 2,4-Dinitrophenol	7.619	184	105319	41.84	ppm		96
58) 4-Nitrophenol	7.744	109	141405	47.97	ppm		91
59) Dibenzofuran	7.713	168	1159830	48.21	ppm		88
60) 2,4-Dinitrotoluene	7.753	165	304030	49.71	ppm		82
61) 2,3,5,6-Tetrachlorophenol	7.832	232	232718	50.68	ppm		99
62) 2,3,4,6-Tetrachlorophenol	7.872	232	228789	50.89	ppm		94
63) Diethylphthalate	7.983	149	975229	49.31	ppm		98
64) Fluorene	8.014	166	965077	48.99	ppm		98
65) 4-Chlorophenyl-phenyle...	8.020	204	449520	50.47	ppm		93
66) 4-Nitroaniline	8.082	138	232114	48.45	ppm		87
68) 4,6-Dinitro-2-methylph...	8.114	198	161962	46.73	ppm	#	31
69) Diphenylamine	8.133	169	815638	48.23	ppm		98
70) n-Nitrosodiphenylamine	8.133	169	815638	57.88	ppm		94
71) 1,2-Diphenylhydrazine	8.156	77	966523	46.85	ppm		98
73) 4-Bromophenyl-phenylether	8.443	248	233443	49.04	ppm		91
74) Hexachlorobenzene	8.568	284	225542	49.34	ppm		88
75) Simazine	8.608	201	122982	42.42	ppm		98
76) Atrazine	8.642	200	275820	48.76	ppm		84
77) Pentachlorophenol	8.736	266	152538	51.69	ppm		97
78) Phenanthrene	8.852	178	1304073	48.71	ppm		96
79) Anthracene	8.892	178	1328693	49.75	ppm		98
80) Carbazole	9.043	167	1232938	48.82	ppm		99
81) Di-n-butylphthalate	9.406	149	1545617	49.19	ppm		98
82) Fluoranthene	9.901	202	1364346	49.30	ppm		94
84) Benzidine	10.026	184	486436	44.80	ppm		99
85) Pyrene	10.097	202	1431844	52.34	ppm		91
87) Butylbenzylphthalate	10.807	149	667343	51.06	ppm		99
88) 3,3'-Dichlorobenzidine	11.398	252	336558	56.97	ppm		94

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\sx1833\
Data File : x039441.D
Acq On : 8 Apr 2015 2:17 pm
Operator : marthav
Sample : cc1826-50
Misc : op55570,sx1833,1000,,,1,1,water
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Apr 09 10:48:41 2015
Quant Method : C:\msdchem\1\METHODS\8270d_03302.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Thu Apr 09 10:47:59 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
89) Benzo[a]anthracene	11.393	228	1174599	55.01 ppm	97
90) Chrysene	11.449	228	1056763	52.16 ppm	98
91) bis(2-Ethylhexyl)phtha...	11.577	149	893445	51.63 ppm	99
93) Di-n-octylphthalate	12.535	149	1366991	53.94 ppm	99
94) Benzo[b]fluoranthene	13.012	252	866908	54.67 ppm	99
95) Benzo[k]fluoranthene	13.058	252	845011	51.95 ppm	97
96) Benzo[a]pyrene	13.558	252	769812	54.10 ppm	99
97) Indeno[1,2,3-cd]pyrene	15.669	276	459405	47.31 ppm	99
98) Dibenz[a,h]anthracene	15.746	278	428062	47.34 ppm	95
99) Benzo[g,h,i]perylene	16.155	276	496134	46.93 ppm	99

(#) = qualifier out of range (m) = manual integration (+) = signals summed

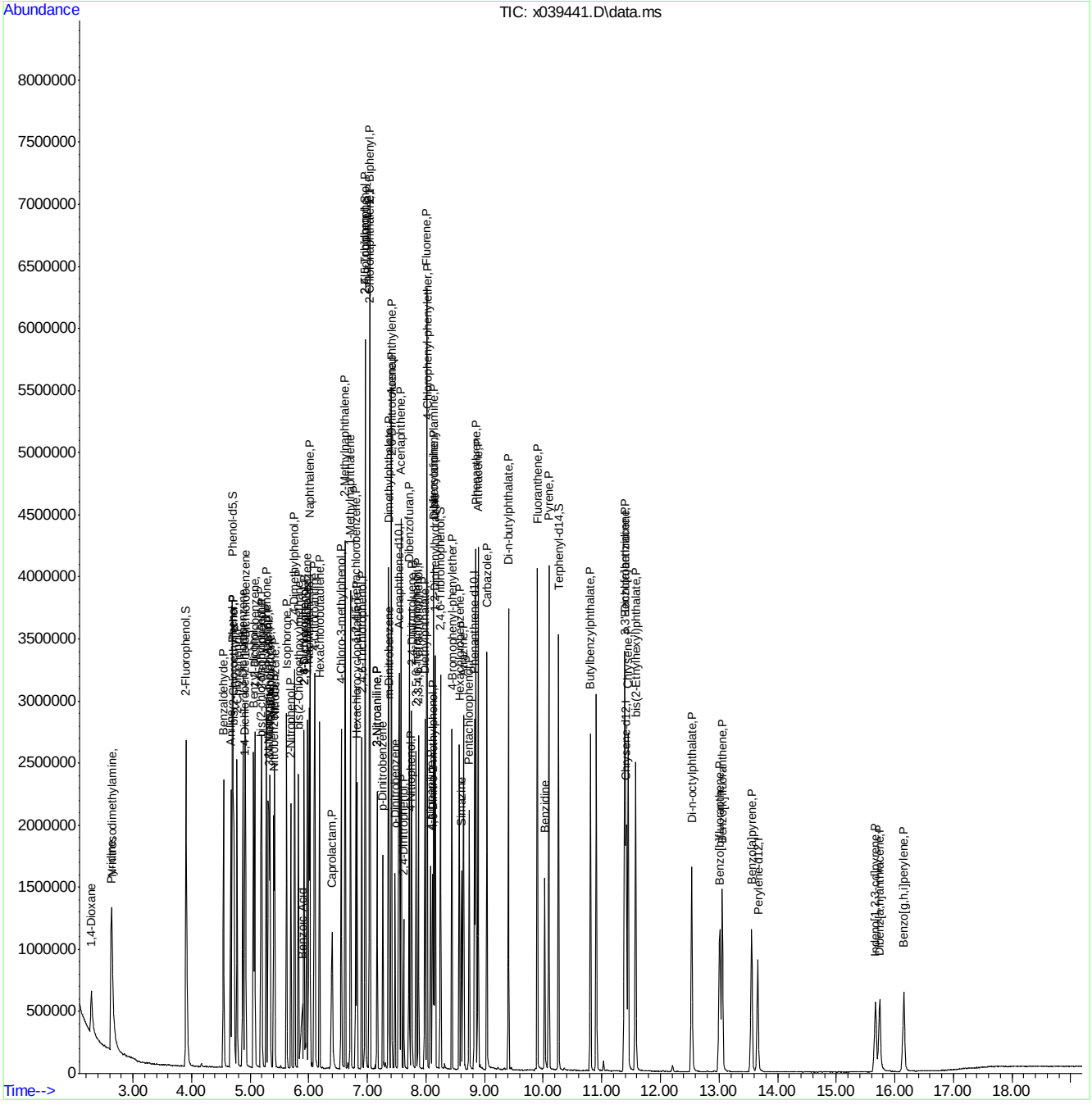
7.6.46

7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\sx1833\
Data File : x039441.D
Acq On : 8 Apr 2015 2:17 pm
Operator : marthav
Sample : cc1826-50
Misc : op55570,sx1833,1000,,,1,1,water
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Apr 09 10:48:41 2015
Quant Method : C:\msdchem\1\METHODS\8270d_03302.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Thu Apr 09 10:47:59 2015
Response via : Initial Calibration



Manual Integration Approval Summary

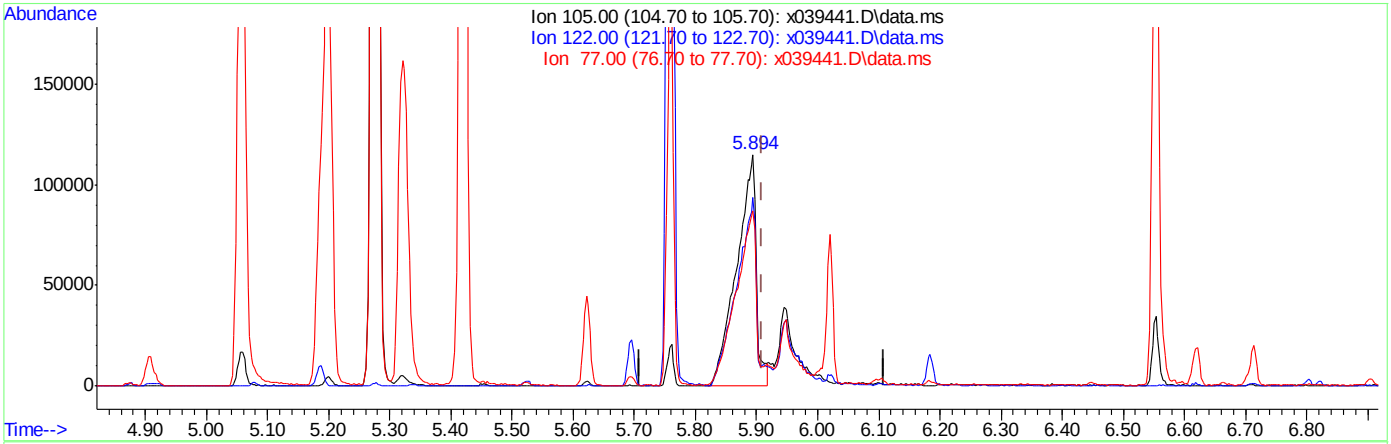
Sample Number:	SX1833-CC1826	**Method:**	SW846 8270D
Lab FileID:	X039441.D	**Analyst approved:**	04/09/15 14:46 Martha Valls
Injection Time:	04/08/15 14:17	**Supervisor approved:**	04/09/15 15:53 Mike Eger

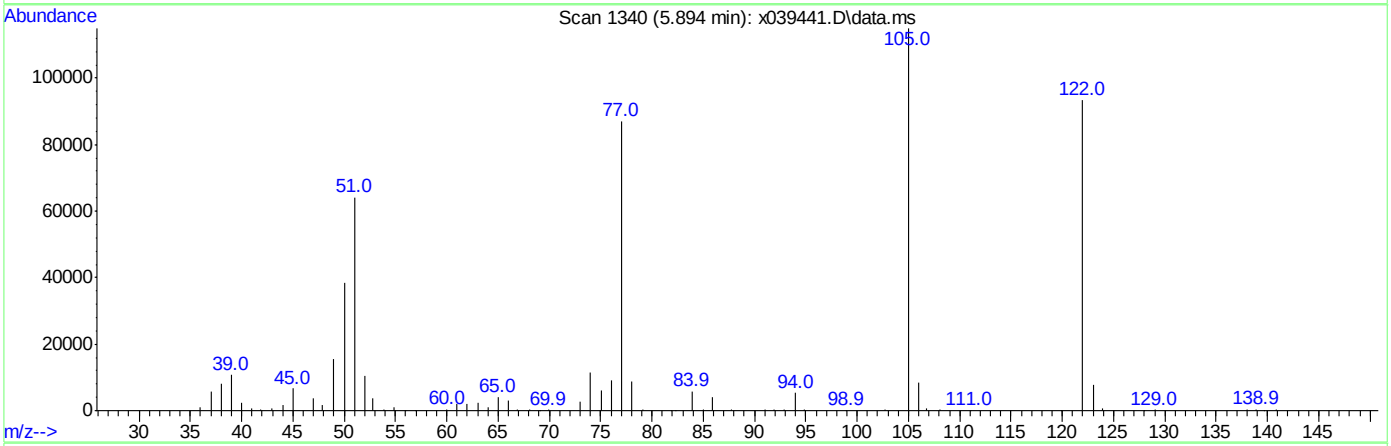
Parameter	CAS	Sig#	R.T. (min.)	Reason
Benzoic Acid	65-85-0		5.89	Split peak
Caprolactam	105-60-2		6.40	Split peak

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\sx1833\
Data File : x039441.D
Acq On : 8 Apr 2015 2:17 pm
Operator : marthav
Sample : cc1826-50
Misc : op55570,sx1833,1000,,,1,1,water
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Apr 09 10:48:04 2015
Quant Method : C:\msdchem\1\METHODS\8270d_03302.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Thu Apr 09 10:47:59 2015
Response via : Initial Calibration





TIC: x039441.D\data.ms

(29) Benzoic Acid

5.894min (-0.014) 34.10ppm

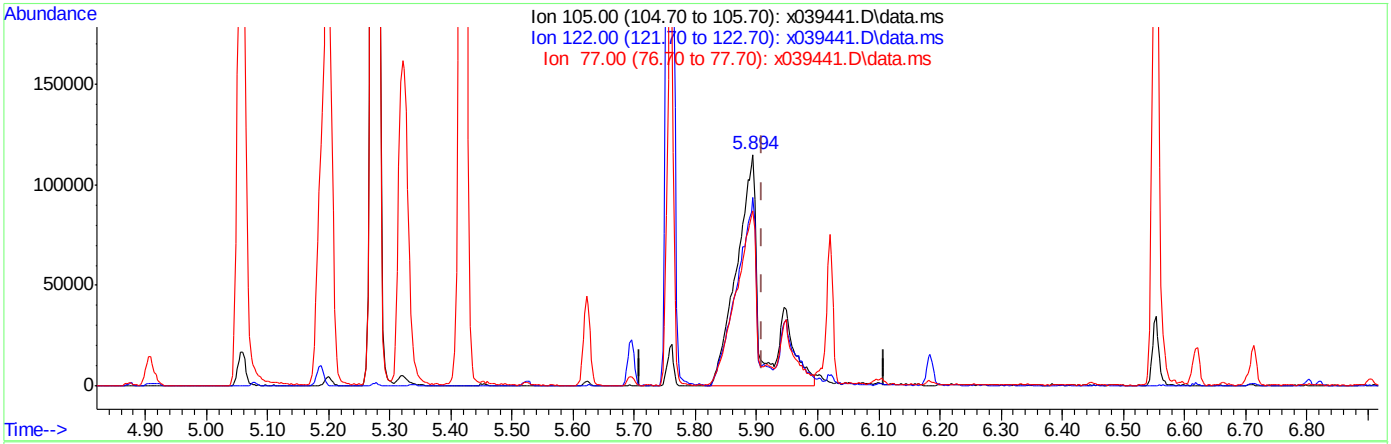
response 254494

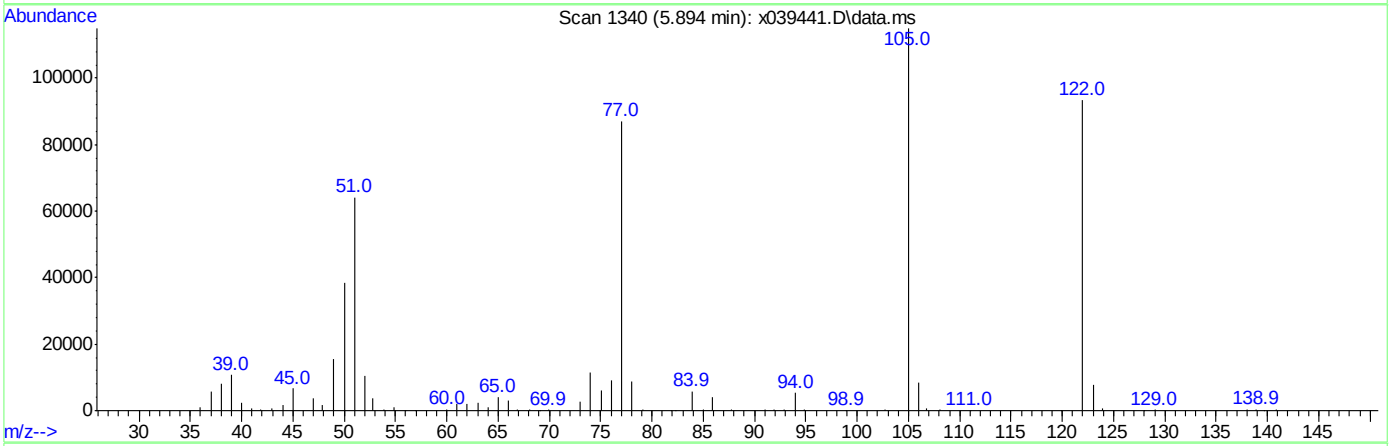
Ion	Exp%	Act%
105.00	100	100
122.00	83.70	81.12
77.00	75.60	74.25
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\sx1833\
Data File : x039441.D
Acq On : 8 Apr 2015 2:17 pm
Operator : marthav
Sample : cc1826-50
Misc : op55570,sx1833,1000,,,1,1,water
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Apr 09 10:48:04 2015
Quant Method : C:\msdchem\1\METHODS\8270d_03302.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Thu Apr 09 10:47:59 2015
Response via : Initial Calibration





TIC: x039441.D\data.ms

(29) Benzoic Acid

5.894min (-0.014) 44.40ppm m

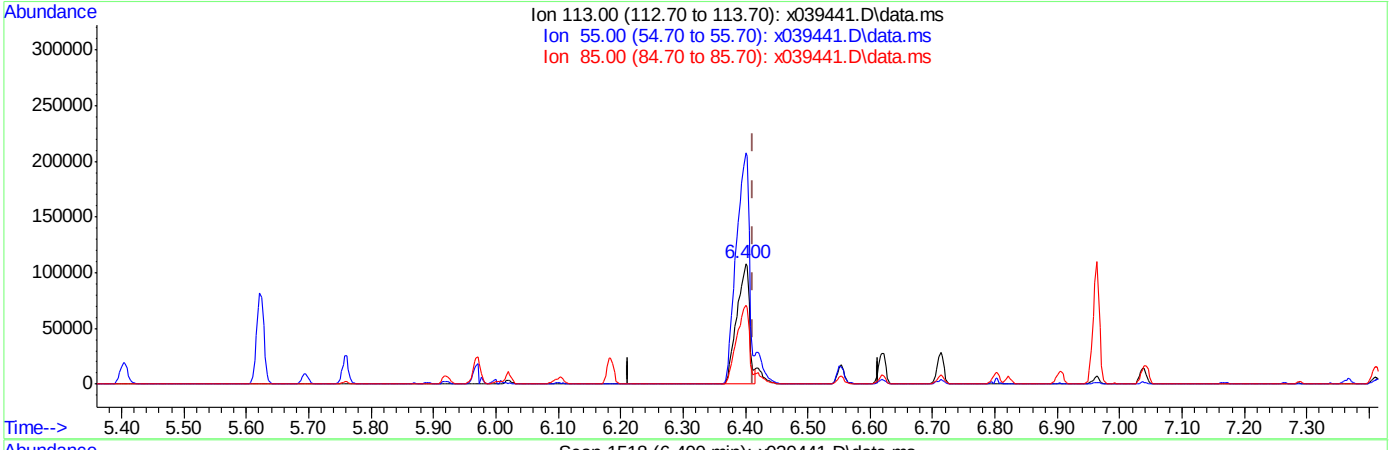
response 331373

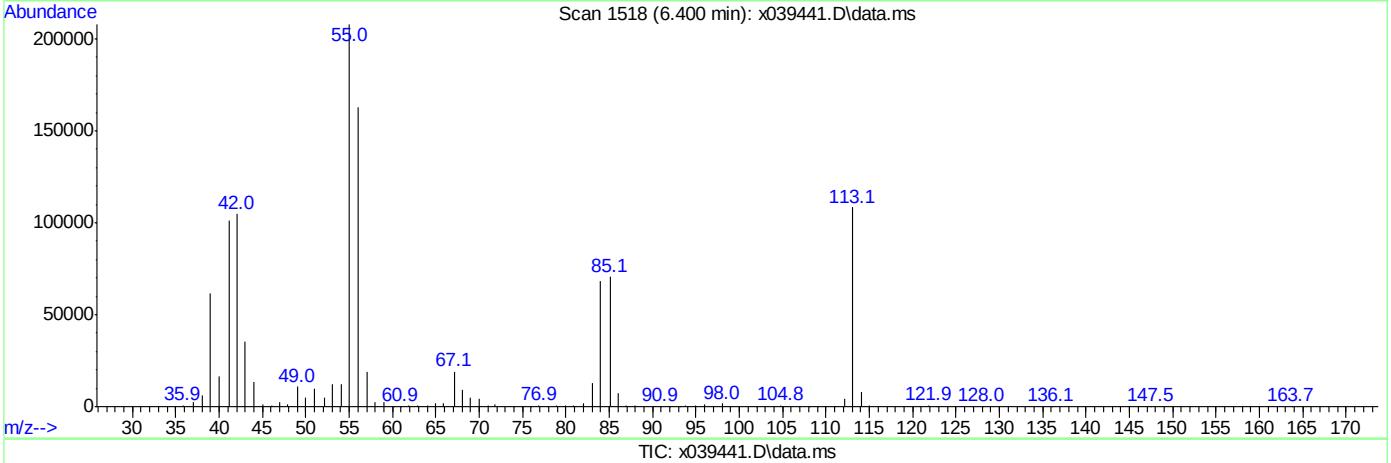
Ion	Exp%	Act%
105.00	100	100
122.00	83.70	81.37
77.00	75.60	75.70
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\sx1833\
Data File : x039441.D
Acq On : 8 Apr 2015 2:17 pm
Operator : marthav
Sample : cc1826-50
Misc : op55570,sx1833,1000,,,1,1,water
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Apr 09 10:48:04 2015
Quant Method : C:\msdchem\1\METHODS\8270d_03302.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Thu Apr 09 10:47:59 2015
Response via : Initial Calibration





TIC: x039441.D\data.ms

(36) Caprolactam (P)

6.400min (-0.013) 47.36ppm

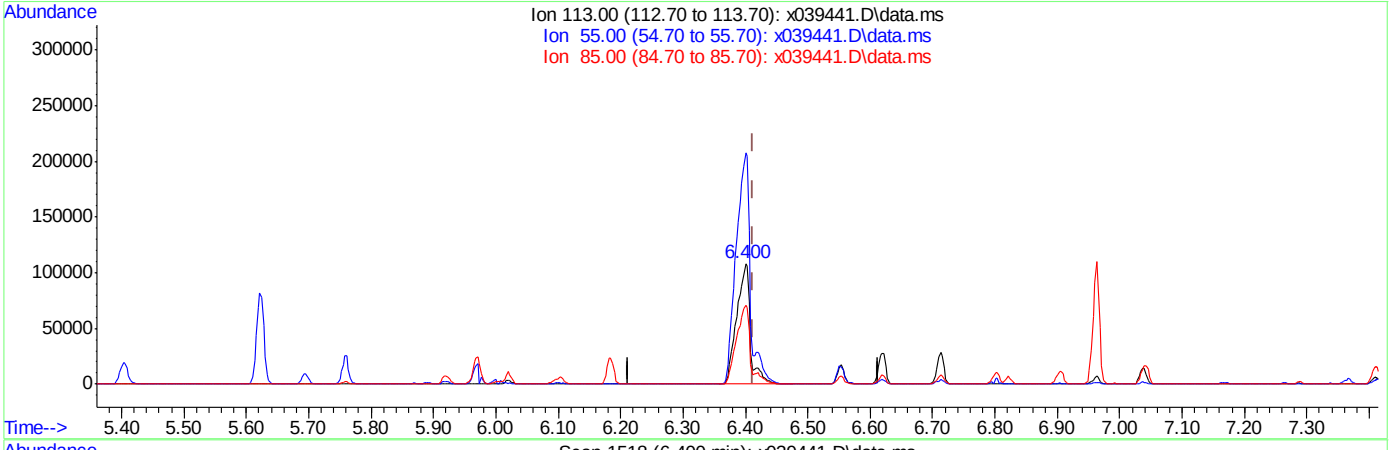
response 152212

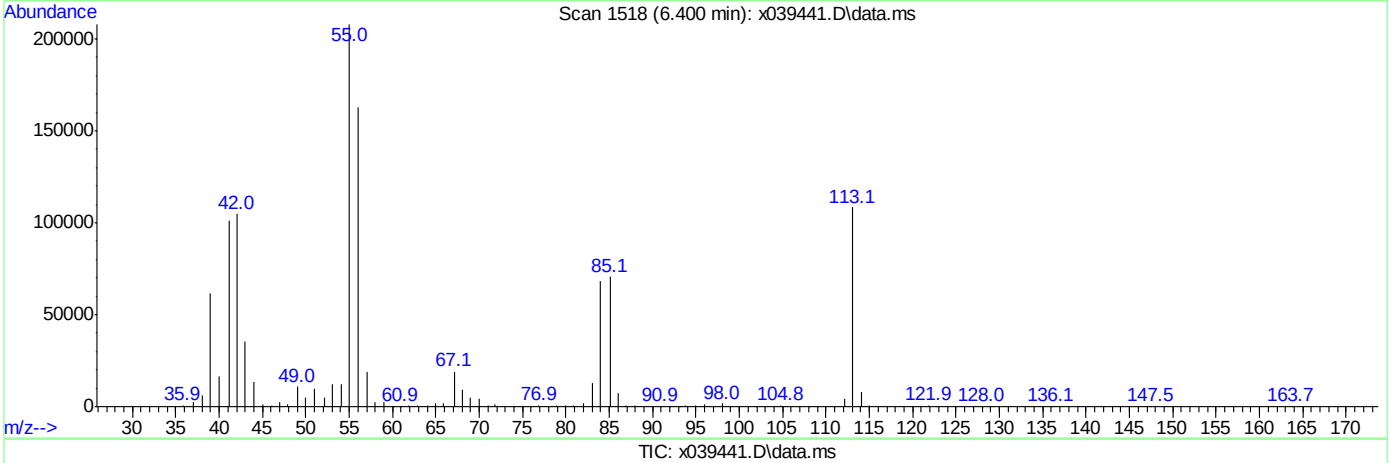
Ion	Exp%	Act%
113.00	100	100
55.00	140.60	191.87#
85.00	61.10	64.63
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\sx1833\
Data File : x039441.D
Acq On : 8 Apr 2015 2:17 pm
Operator : marthav
Sample : cc1826-50
Misc : op55570,sx1833,1000,,,1,1,water
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Apr 09 10:48:04 2015
Quant Method : C:\msdchem\1\METHODS\8270d_03302.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Thu Apr 09 10:47:59 2015
Response via : Initial Calibration





TIC: x039441.D\data.ms

(36) Caprolactam (P)

6.400min (-0.013) 51.50ppm m

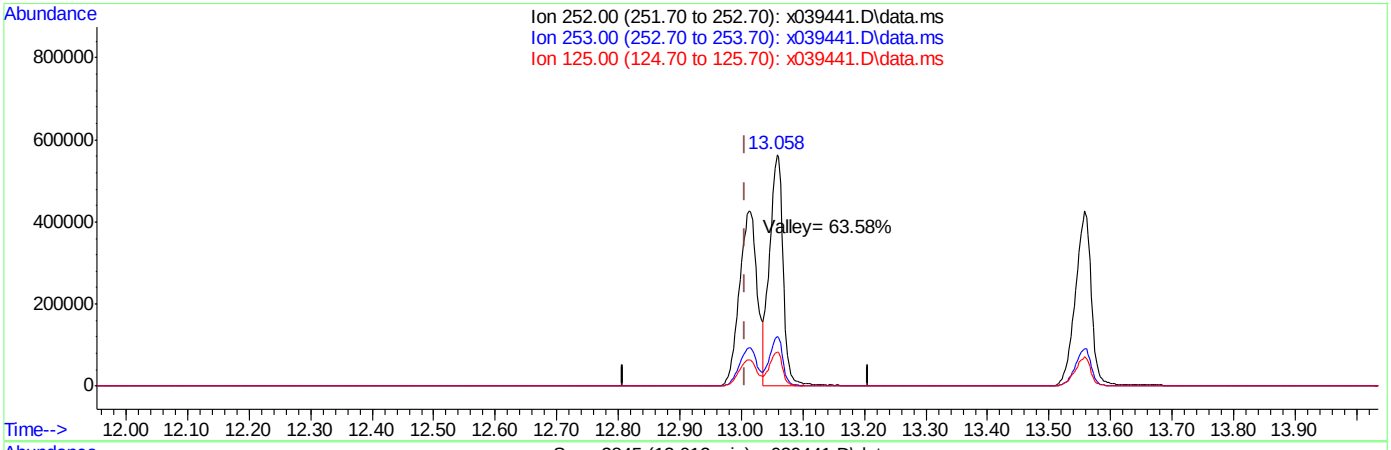
response 165532

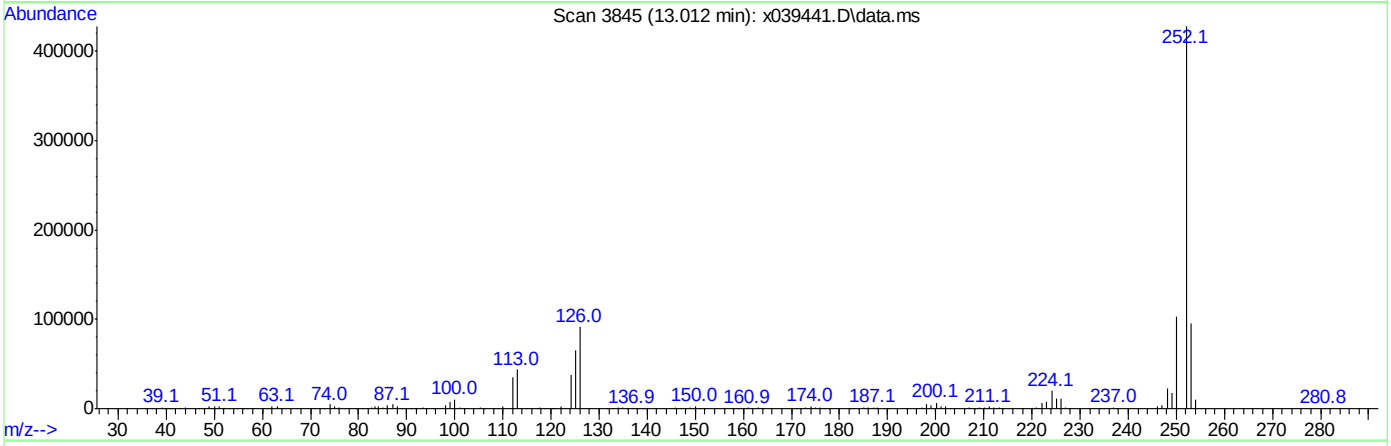
Ion	Exp%	Act%
113.00	100	100
55.00	140.60	191.79#
85.00	61.10	65.21
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\sx1833\
Data File : x039441.D
Acq On : 8 Apr 2015 2:17 pm
Operator : marthav
Sample : cc1826-50
Misc : op55570,sx1833,1000,,,1,1,water
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Apr 09 10:48:04 2015
Quant Method : C:\msdchem\1\METHODS\8270d_03302.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Thu Apr 09 10:47:59 2015
Response via : Initial Calibration





(94) Benzo[b]fluoranthene (P)

13.012min (+0.005) 54.67ppm

response 866908

Ion	Exp%	Act%
252.00	100	100
253.00	22.40	22.11
125.00	14.60	15.14
0.00	0.00	0.00

Manual Integrations APPROVED (compounds with "m" flag)
Mike Eger
04/09/15 15:53

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\sx1833\
Data File : x039475.D
Acq On : 9 Apr 2015 4:12 am
Operator : marthav
Sample : Ecc1826-50
Misc : op55570,sx1833,1000,,,1,1,water
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Apr 09 13:45:59 2015
Quant Method : C:\msdchem\1\METHODS\8270d_03302.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Tue Mar 31 09:29:41 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.903	152	229364	40.00	ppm	0.00
22) Naphthalene-d8	6.000	136	878219	40.00	ppm	0.00
41) Acenaphthene-d10	7.548	164	478348	40.00	ppm	0.00
67) Phenanthrene-d10	8.838	188	749299	40.00	ppm	0.00
83) Chrysene-d12	11.458	240	603330	40.00	ppm	0.04
92) Perylene-d12	13.768	264	399995	40.00	ppm	0.11
System Monitoring Compounds						
5) 2-Fluorophenol	3.900	112	824937	100.46	ppm	0.00
Spiked Amount 100.000	Range 14 - 67		Recovery = 100.46%#			
9) Phenol-d5	4.695	99	828614	99.21	ppm	0.00
Spiked Amount 100.000	Range 10 - 50		Recovery = 99.21%#			
23) Nitrobenzene-d5	5.403	82	457911	49.22	ppm	-0.01
Spiked Amount 50.000	Range 42 - 108		Recovery = 98.44%			
45) 2-Fluorobiphenyl	6.966	172	784754	48.40	ppm	0.00
Spiked Amount 50.000	Range 40 - 106		Recovery = 96.80%			
72) 2,4,6-Tribromophenol	8.253	330	167484	99.51	ppm	0.00
Spiked Amount 100.000	Range 33 - 118		Recovery = 99.51%			
86) Terphenyl-d14	10.282	244	732841	53.16	ppm	0.05
Spiked Amount 50.000	Range 39 - 121		Recovery = 106.32%			
Target Compounds						Qvalue
2) 1,4-Dioxane	2.280	88	200019	55.57	ppm	94
3) N-nitrosodimethylamine	2.632	42	274358	52.41	ppm	90
4) Pyridine	2.618	79	482163	50.41	ppm	100
6) Benzaldehyde	4.542	106	288786	41.95	ppm	97
7) Aniline	4.667	93	600892	49.50	ppm	88
8) bis(2-Chloroethyl)ether	4.721	93	380887	48.33	ppm	91
10) Phenol	4.704	94	514084	47.04	ppm	98
11) 2-Chlorophenol	4.772	128	420896	47.84	ppm	92
12) 1,3-Dichlorobenzene	4.871	146	462490	49.48	ppm	98
13) 1,4-Dichlorobenzene	4.917	146	456812	48.86	ppm	99
14) 1,2-Dichlorobenzene	5.076	146	433671	48.68	ppm	97
15) Benzyl alcohol	5.053	108	276018	48.90	ppm	96
16) 2-Methylphenol	5.193	108	370005	48.30	ppm	95
17) bis(2-chloroisopropyl)...	5.184	45	694419	49.24	ppm	90
18) Acetophenone	5.275	105	555043	47.92	ppm	97
19) N-Nitroso-di-n-propyla...	5.303	70	225763	49.82	ppm	91
20) 3&4-Methylphenol	5.318	108	392661	48.85	ppm	99
21) Hexachloroethane	5.337	117	185782	48.53	ppm	85
24) Nitrobenzene	5.417	77	430405	48.87	ppm	95
25) Isophorone	5.619	82	780641	48.45	ppm	97
26) 2-Nitrophenol	5.693	139	227768	49.86	ppm	94
27) 2,4-Dimethylphenol	5.755	107	395441	47.43	ppm	99
28) bis(2-Chloroethoxy)met...	5.820	93	448185	48.99	ppm	96
29) Benzoic Acid	5.889	105	283308m	44.68	ppm	
30) 2,4-Dichlorophenol	5.917	162	324586	48.23	ppm	98
31) 1,2,4-Trichlorobenzene	5.968	180	332144	48.42	ppm	97
32) Naphthalene	6.017	128	1133746	50.08	ppm	90

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\sx1833\
Data File : x039475.D
Acq On : 9 Apr 2015 4:12 am
Operator : marthav
Sample : Ecc1826-50
Misc : op55570,sx1833,1000,,,1,1,water
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Apr 09 13:45:59 2015
Quant Method : C:\msdchem\1\METHODS\8270d_03302.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Tue Mar 31 09:29:41 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
33) 4-Chloroaniline	6.090	127	501110	47.93	ppm		95
34) 2,6-Dichlorophenol	5.917	162	324586	48.23	ppm		98
35) Hexachlorobutadiene	6.181	225	186862	48.75	ppm		99
36) Caprolactam	6.400	113	133259	48.81	ppm	#	59
37) 4-Chloro-3-methylphenol	6.551	107	354131	48.54	ppm		99
38) 2-Methylnaphthalene	6.619	142	795435	49.50	ppm		98
39) 1-Methylnaphthalene	6.713	142	704286	49.36	ppm		97
40) 1,2,4,5-Tetrachloroben...	6.804	216	327610	48.88	ppm		98
42) Hexachlorocyclopentadiene	6.824	237	202080	47.14	ppm		98
43) 2,4,6-Trichlorophenol	6.906	196	220620	48.74	ppm		98
44) 2,4,5-Trichlorophenol	6.963	196	228644	47.39	ppm		99
46) 1,1'-Biphenyl	7.039	154	922787	50.64	ppm		90
47) 2-Chloronaphthalene	7.042	162	683751	48.56	ppm		96
48) 2-Nitroaniline	7.170	65	263194	49.89	ppm		94
49) p-Dinitrobenzene	7.267	75	159113	49.95	ppm		95
50) Dimethylphthalate	7.363	163	775747	48.93	ppm		96
51) m-Dinitrobenzene	7.369	168	130156	48.57	ppm	#	67
52) 2,6-Dinitrotoluene	7.417	165	178370	47.97	ppm		93
53) o-Dinitrobenzene	7.477	50	164979	49.93	ppm		94
54) Acenaphthylene	7.412	152	1104177	49.80	ppm		90
55) 3-Nitroaniline	7.170	138	262502	49.30	ppm		98
56) Acenaphthene	7.577	153	702865	49.25	ppm		96
57) 2,4-Dinitrophenol	7.622	184	87742	42.07	ppm		89
58) 4-Nitrophenol	7.750	109	115813	47.50	ppm		92
59) Dibenzofuran	7.716	168	977019	49.06	ppm		86
60) 2,4-Dinitrotoluene	7.758	165	241684	47.73	ppm		84
61) 2,3,5,6-Tetrachlorophenol	7.835	232	184750	48.60	ppm		97
62) 2,3,4,6-Tetrachlorophenol	7.875	232	180518	48.51	ppm		96
63) Diethylphthalate	7.989	149	791123	48.32	ppm		98
64) Fluorene	8.017	166	816786	50.08	ppm		100
65) 4-Chlorophenyl-phenyle...	8.023	204	361845	49.08	ppm		91
66) 4-Nitroaniline	8.088	138	196049	49.43	ppm		89
68) 4,6-Dinitro-2-methylph...	8.119	198	134345	47.11	ppm	#	67
69) Diphenylamine	8.139	169	685310	49.28	ppm		96
70) n-Nitrosodiphenylamine	8.139	169	685310	59.14	ppm		97
71) 1,2-Diphenylhydrazine	8.162	77	828920	48.86	ppm		96
73) 4-Bromophenyl-phenylether	8.449	248	192382	49.15	ppm		89
74) Hexachlorobenzene	8.577	284	188121	50.05	ppm		92
75) Simazine	8.616	201	69883	29.31	ppm		92
76) Atrazine	8.651	200	231150	49.69	ppm		78
77) Pentachlorophenol	8.744	266	121626	50.12	ppm		100
78) Phenanthrene	8.858	178	1095710	49.77	ppm		98
79) Anthracene	8.898	178	1099266	50.06	ppm		98
80) Carbazole	9.051	167	1038872	50.03	ppm		98
81) Di-n-butylphthalate	9.423	149	1298916	50.27	ppm		100
82) Fluoranthene	9.915	202	1132036	49.74	ppm		95
84) Benzidine	10.043	184	351739	39.74	ppm		99
85) Pyrene	10.111	202	1196385	53.64	ppm		90
87) Butylbenzylphthalate	10.844	149	552307	51.84	ppm		96
88) 3,3'-Dichlorobenzidine	11.449	252	256417	53.24	ppm		94

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\sx1833\
Data File : x039475.D
Acq On : 9 Apr 2015 4:12 am
Operator : marthav
Sample : Ecc1826-50
Misc : op55570,sx1833,1000,,,1,1,water
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Apr 09 13:45:59 2015
Quant Method : C:\msdchem\1\METHODS\8270d_03302.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Tue Mar 31 09:29:41 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
89) Benzo[a]anthracene	11.435	228	918949	52.80 ppm	98
90) Chrysene	11.492	228	883085	53.46 ppm	96
91) bis(2-Ethylhexyl)phtha...	11.645	149	744374	52.77 ppm	98
93) Di-n-octylphthalate	12.657	149	1105057	53.95 ppm	98
94) Benzo[b]fluoranthene	13.103	252	687169	53.61 ppm	96
95) Benzo[k]fluoranthene	13.140	252	712621m	54.20 ppm	
96) Benzo[a]pyrene	13.651	252	633255	55.06 ppm	98
97) Indeno[1,2,3-cd]pyrene	15.811	276	421229	53.04 ppm	91
98) Dibenz[a,h]anthracene	15.913	278	382455	51.68 ppm	95
99) Benzo[g,h,i]perylene	16.331	276	451325	52.82 ppm	98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

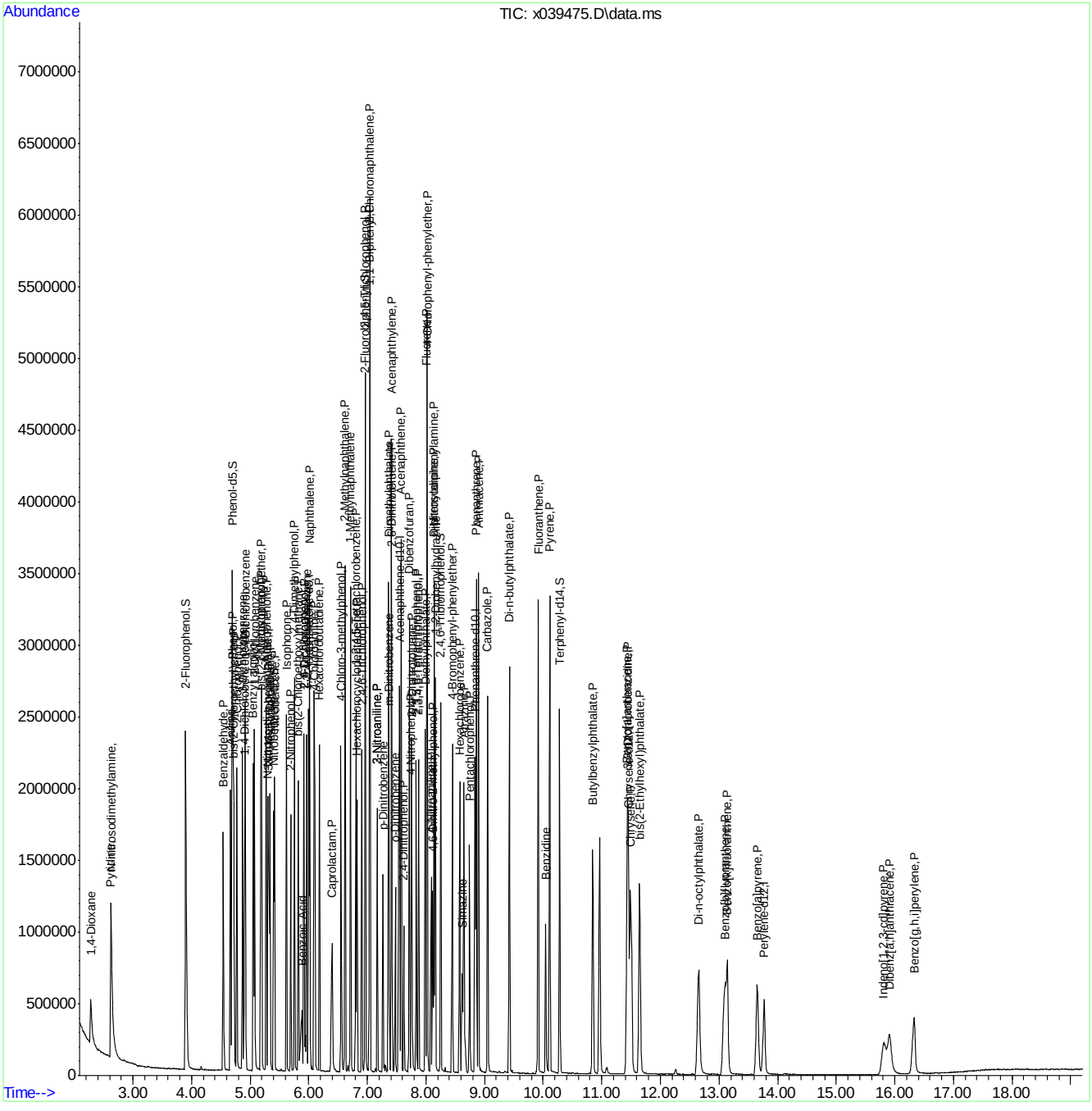
7.6.47

7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\sx1833\
Data File : x039475.D
Acq On : 9 Apr 2015 4:12 am
Operator : marthav
Sample : Ecc1826-50
Misc : op55570,sx1833,1000,,,1,1,water
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Apr 09 13:45:59 2015
Quant Method : C:\msdchem\1\METHODS\8270d_03302.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Tue Mar 31 09:29:41 2015
Response via : Initial Calibration



Manual Integration Approval Summary

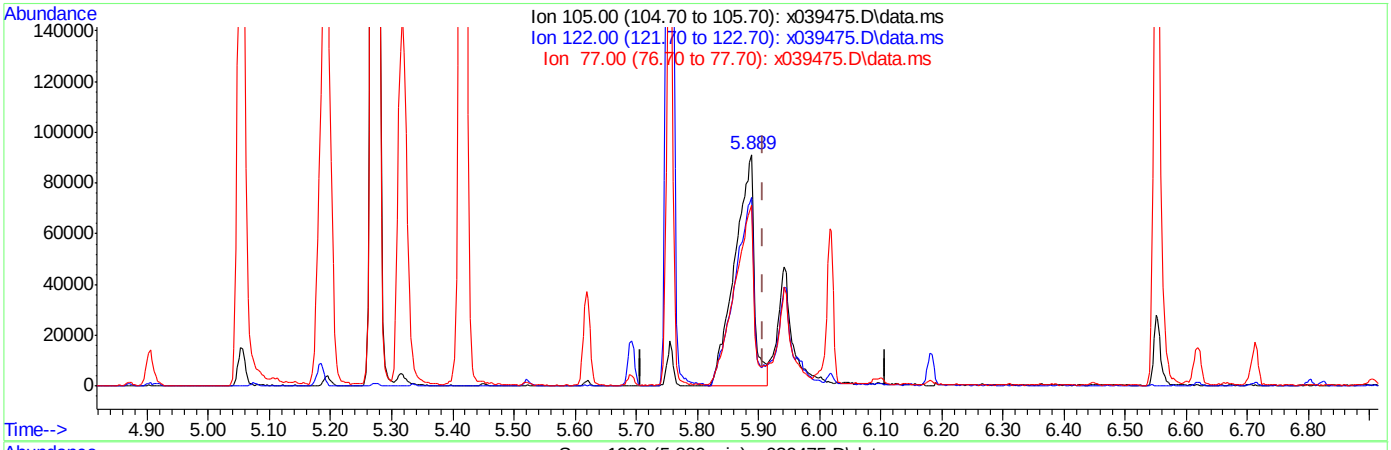
Sample Number:	SX1833-ECC1826	**Method:**	SW846 8270D
Lab FileID:	X039475.D	**Analyst approved:**	04/09/15 14:49 Martha Valls
Injection Time:	04/09/15 04:12	**Supervisor approved:**	04/09/15 15:53 Mike Eger

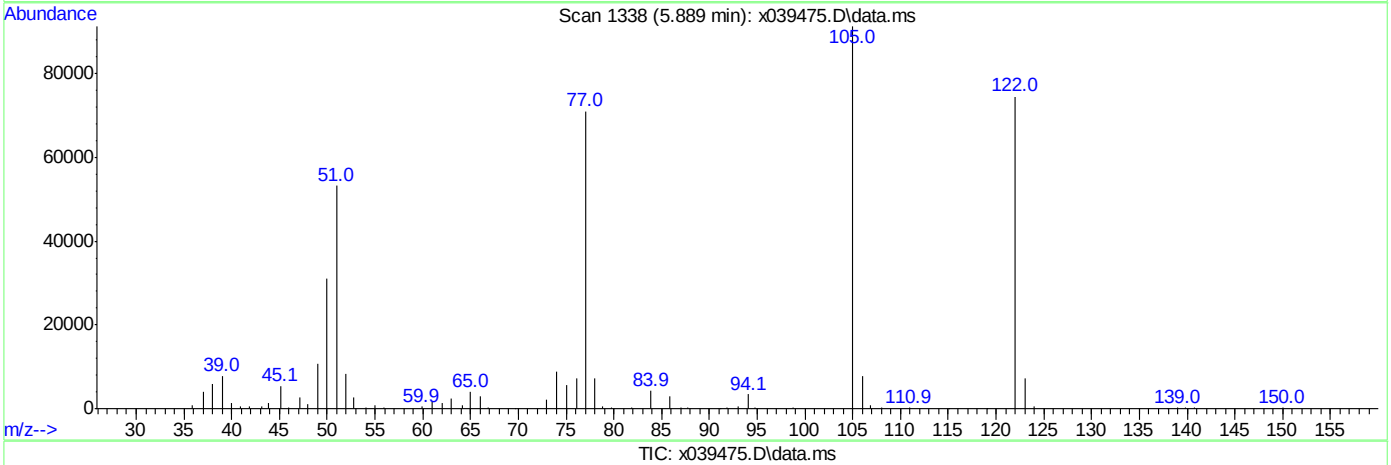
Parameter	CAS	Sig#	R.T. (min.)	Reason
Benzoic Acid	65-85-0		5.89	Split peak
Benzo(k)fluoranthene	207-08-9		13.14	Missed peak

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\sx1833\
Data File : x039475.D
Acq On : 9 Apr 2015 4:12 am
Operator : marthav
Sample : Ecc1826-50
Misc : op55570,sx1833,1000,,,1,1,water
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Apr 09 10:50:25 2015
Quant Method : C:\msdchem\1\METHODS\8270d_03302.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Tue Mar 31 09:29:41 2015
Response via : Initial Calibration





TIC: x039475.D\data.ms

(29) Benzoic Acid

5.889min (-0.020) 32.38ppm

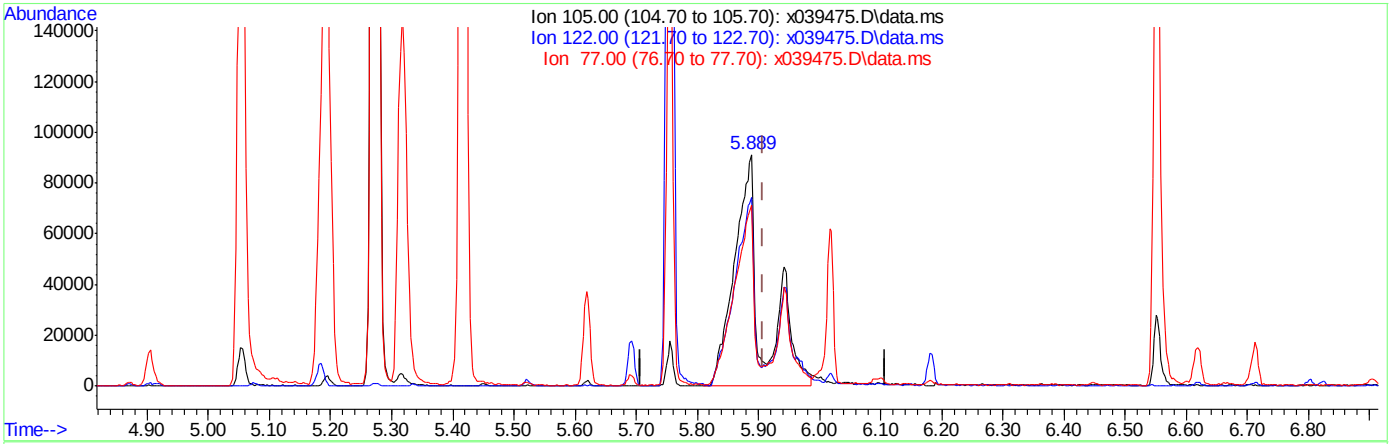
response 205287

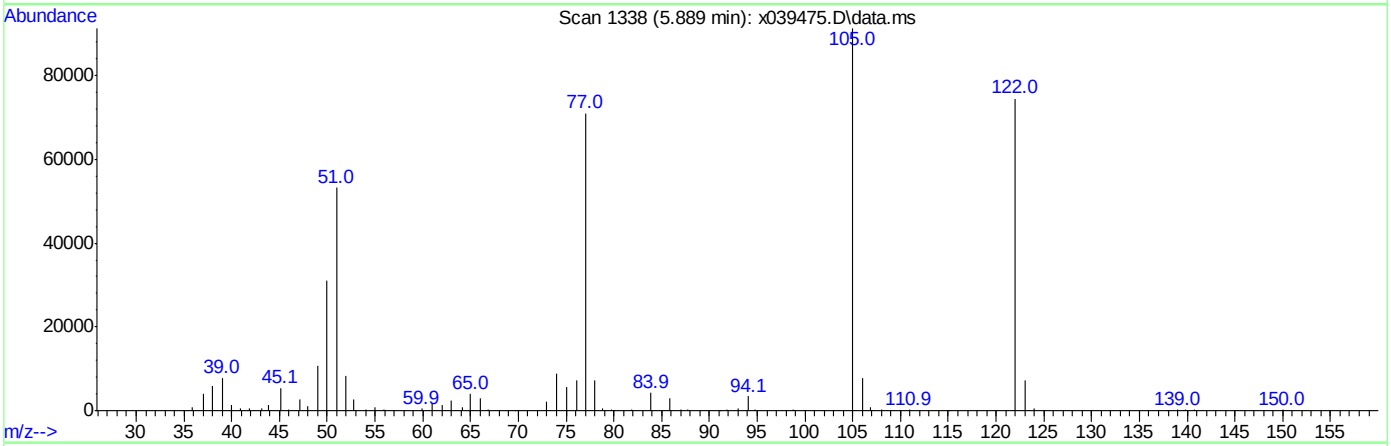
Ion	Exp%	Act%
105.00	100	100
122.00	83.70	80.59
77.00	75.60	76.48
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\sx1833\
Data File : x039475.D
Acq On : 9 Apr 2015 4:12 am
Operator : marthav
Sample : Ecc1826-50
Misc : op55570,sx1833,1000,,,1,1,water
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Apr 09 10:50:25 2015
Quant Method : C:\msdchem\1\METHODS\8270d_03302.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Tue Mar 31 09:29:41 2015
Response via : Initial Calibration





TIC: x039475.D\data.ms

(29) Benzoic Acid

5.889min (-0.020) 44.68ppm m

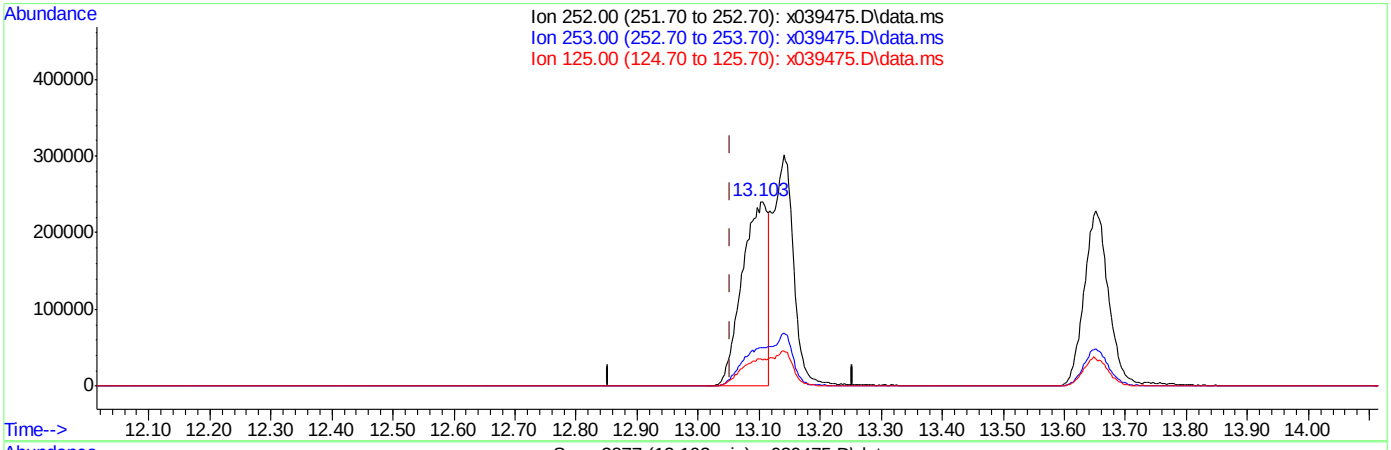
response 283308

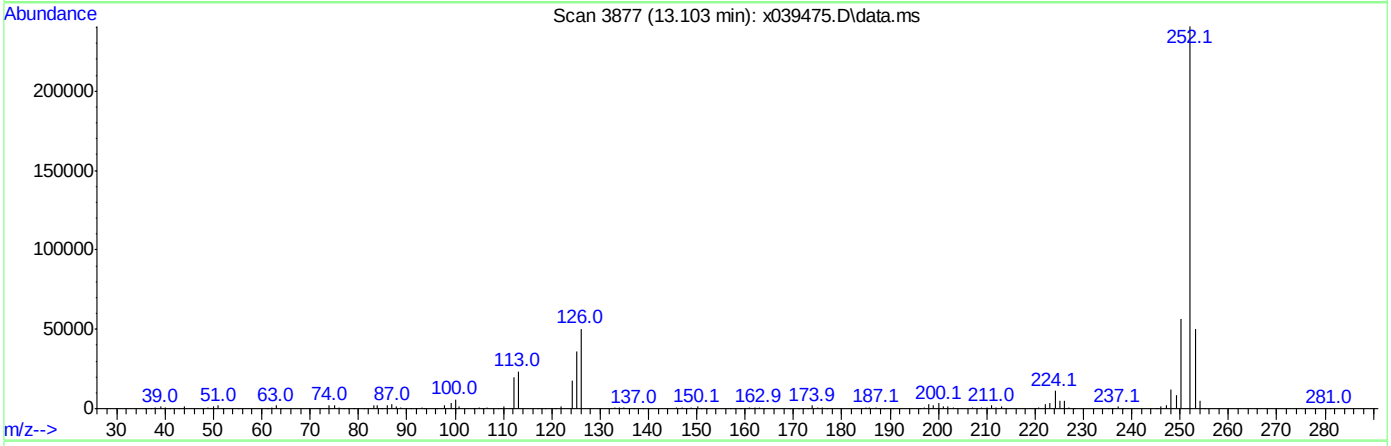
Ion	Exp%	Act%
105.00	100	100
122.00	83.70	81.63
77.00	75.60	77.85
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\sx1833\
Data File : x039475.D
Acq On : 9 Apr 2015 4:12 am
Operator : marthav
Sample : Ecc1826-50
Misc : op55570,sx1833,1000,,,1,1,water
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Apr 09 10:50:25 2015
Quant Method : C:\msdchem\1\METHODS\8270d_03302.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Tue Mar 31 09:29:41 2015
Response via : Initial Calibration





TIC: x039475.D\data.ms

(95) Benzo[k]fluoranthene (P)

13.103min (+0.049) 52.26ppm

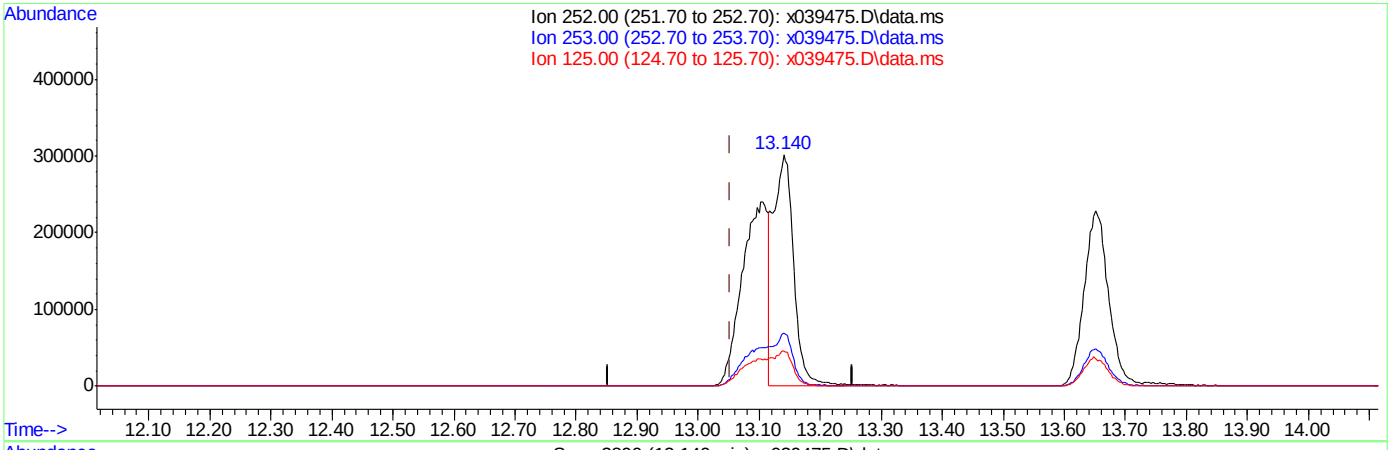
response 687169

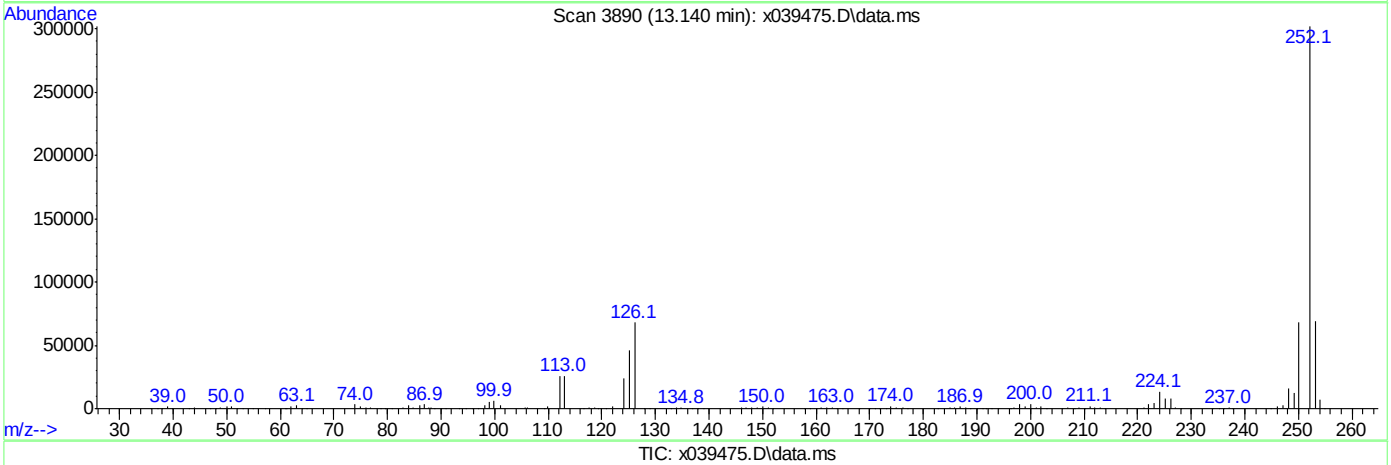
Ion	Exp%	Act%
252.00	100	100
253.00	23.20	19.13
125.00	15.40	14.44
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\sx1833\
Data File : x039475.D
Acq On : 9 Apr 2015 4:12 am
Operator : marthav
Sample : Ecc1826-50
Misc : op55570,sx1833,1000,,,1,1,water
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Apr 09 10:50:25 2015
Quant Method : C:\msdchem\1\METHODS\8270d_03302.m
Quant Title : SW846 8270D OR EPA 625
QLast Update : Tue Mar 31 09:29:41 2015
Response via : Initial Calibration





TIC: x039475.D\data.ms

(95) Benzo[k]fluoranthene (P)

13.140min (+0.086) 54.20ppm m

response 712621

Ion	Exp%	Act%
252.00	100	100
253.00	23.20	22.83
125.00	15.40	15.34
0.00	0.00	0.00

ACCUTEST LABORATORIES SE

DATE:	4/2/15
COLUMN TYPE:	TG-5MS
AMOUNT INJECTED:	2 ul
INSTRUMENT:	MSBNA02-L

MS BNA02-L ANALYSIS LOG

METHODS*:	8270D/625
ACQ. METHOD:	ACQ-BNA
PROC. METHOD:	8270DA0402-M
CALIB. DATE:	04-02-15
RUN BATCH:	SL 3629

ANALYST:	M-U
MECL2 LOT #:	149480
DFTPP RESPONSE:	1255718
EM VOLTAGE:	1776

I.S: 7188D

DATA FILE	ALS #	SAMPLE ID	SAMPLE METHOD	OP BATCH	DF	MANUALLY INTEGRATED PEAKS RATIONALE, PEAK #	COMMENTS
L 06816960	1	dftpp	DFTPP	55131	1X		Pass
L 97	2	ic 3629 -5	8270	5542 55120	10+10 380		Curve Pass DOD
L 98	3	-10			20+20 360		
L 99	4	-25			50+50 300		
L 06817000	5	-50			100+100 200		
L 01	6	-60			120+120 160		
L 02	7	-75			150+150 100		
L 03	8	-100			200+200		
L 04	9	icv 3629 -50		7208G	2X		PASS ~~Hexa-~~ Diphenyl ↓ DOD 20NL DOD 4-chloroaniline 23% ↓ 2-methylnaph. Hexachlorocyclopentadiene
L 05	10	icv 3629 -50		7193C 6732 7148B	20NL 10NL 10NL		
L 06	11	icv 3629 -50		7269A ~~7208G~~	20NL		
L 07	12	FA21372-1		55391	1X		✓
L 08	13						✓
L 09	14						✓
L 10	15						✓
L 11	16						✓
L 12	17						✓
L 13	18						✓
L 14	19	MDL Vel 1					✓
L 15	20	MDL Vel 2					✓

* For NELAC purposes, Method 625 includes analytes by SOP MS004 and 8270 includes analytes by SOP MS006
Manual Integration Rationale SOP QA029: MP Missed Peak, OP Overlapping Peak, SP Split Peak, PDB Poorly Defined Baseline, BR Baseline Ripple, PII Poor Instrument Integration
All strikeouts must be initialed and dated. If correction was not due to a transcription error, then list the reason for correction.

msbna02_l_log.xls NF rev. 08/09

Analyst's Signature: M-U

ACCUTEST LABORATORIES SE

DATE:	4/2/15
COLUMN TYPE:	TG-5MS
AMOUNT INJECTED:	2 ul
INSTRUMENT:	MSBNA02-L

MS BNA02-L ANALYSIS LOG

METHODS*:	8270D/625
ACQ. METHOD:	ACQ-BNA
PROC. METHOD:	8270DA0402.M
CALIB. DATE:	04-02-15
RUN BATCH:	SL 3629

ANALYST:	NW
MECL2 LOT #:	149480
DFTPP RESPONSE:	1255718
EM VOLTAGE:	1776

DATA FILE	ALS #	SAMPLE ID	SAMPLE METHOD	OP BATCH	DF	MANUALLY INTEGRATED PEAKS RATIONALE, PEAK #	COMMENTS
L 0681716	21	RL Vol 1	8270	55391	1X		✓
L 17	22	RL Vol 2	↓	↓	↓		✓
L 18	23	Solvent Test	↓		↓		✓
L							
L							
L							
L							
L							
L							
L							
L							
L							
L					NW		
L							
L							
L							
L							
L							
L							
L							

* For NELAC purposes, Method 625 includes analytes by SOP MS004 and 8270 includes analytes by SOP MS006
Manual Integration Rationale SOP QA029: MP Missed Peak, OP Overlapping Peak, SP Split Peak, PDB Poorly Defined Baseline, BR Baseline Ripple, PII Poor Instrument Integration
All strikeouts must be initialed and dated. If correction was not due to a transcription error, then list the reason for correction.

msbna02_l_log.xls NF rev. 08/09

Analyst's Signature: NW

ACCUTEST LABORATORIES SE

DATE:	4-03-15
COLUMN TYPE:	TG-5MS
AMOUNT INJECTED:	2ul
INSTRUMENT:	MSBNA02-L

MS BNA02-L ANALYSIS LOG

METHODS*:	8270D
ACQ. METHOD:	ACQ-BNA
PROC. METHOD:	8270DA 0402.M
CALIB. DATE:	04-02-2015
RUN BATCH:	SL 3630

ANALYST:	M. Vallo
MECL2 LOT #:	149480
DFTPP RESPONSE:	896483
EM VOLTAGE:	1776

DATA FILE	ALS #	SAMPLE ID	SAMPLE METHOD	OP BATCH	DF	MANUALLY INTEGRATED PEAKS RATIONALE, PEAK #	COMMENTS
L0681719	1	dftppr	8270	55131	1X		PASS
L 20	2	cc3629-50		55142 55120	100+100 200		PASS
L 21	3	op55582-bs		55582	1X		RR
L 22	4	op55582 mb					RR
L 23	5	tet 7321A		7321A	2X		— off line — RR
L 24	5	tet 7321A		↓	↓		
L 25	6	icv 3629-50 2methyl.		7075C	100X 5 500		Pass
L 26	7	op55582-bs		55582	1X		DNR-RR
L 27	8	op55582-mb					RR
L 28	9	FA23258-33				→ stop.	— stop at 12min
L 29	10	op55582-ms					— off line —
L 30	11	op55582-msd					
L 31	12	FA23230-2					
L 32	13	FA23230-8					
L 33	14	FA23258-1					
L 34	15	FA23258-3					
L 35	16	FA23258-5					
L 36	17	FA23258-7					
L 37	18	FA23258-8					
L 38	19	FA23258 +0					

* For NELAC purposes, Method 625 includes analytes by SOP MS004 and 8270 includes analytes by SOP MS006
Manual Integration Rationale SOP.QA029: **MP** Missed Peak, **OP** Overlapping Peak, **SP** Split Peak, **PDB** Poorly Defined Baseline, **BR** Baseline Ripple, **PII** Poor Instrument Integration
All strikeouts must be initialed and dated. If correction was not due to a transcription error, then list the reason for correction.

msbna02_l_log.xls NF rev. 08/09

Analyst's Signature: MV

39 — 50

ACCUTEST LABORATORIES SE

DATE:	4/6/15
COLUMN TYPE:	TG - 5MS
AMOUNT INJECTED:	1 ul
INSTRUMENT:	MSBNA02-L

MS BNA02-L ANALYSIS LOG

METHODS*:	8270D / 625
ACQ. METHOD:	ACQ - BNA
PROC. METHOD:	8270DA0402.M
CALIB. DATE:	04-02-15
RUN BATCH:	SL 3631

ANALYST:	M. Valle
MECL2 LOT #:	149480
DFTPP RESPONSE:	935681
EM VOLTAGE:	1776

Int. Std = 55147

DATA FILE	ALS #	SAMPLE ID	SAMPLE METHOD	OP BATCH	DF	MANUALLY INTEGRATED PEAKS RATIONALE, PEAK #	COMMENTS
L 06817 29	1	dftpp	DFTPP	55131	1X		Pass 0% degradation
L 30	2	cc 3629 - 50	8270	55142 55120	100 to 100 / 200		Pass
L 31	3	op55582 - bs		55582	1X		✓
L 32	4	↓ - mb		↓			ND
L 33	5	op55578 - bs		55578			✓
L 34	6	↓ - mb		↓	↓		ND
L 35	7	FA23096 - 5		55512	4X 100:400		✓
L 36	8	FA23230 - 5		55578	1X		✓
L 37	9	FA23230 - 10					✓
L 38	10	↓ - 20					✓
L 39	11	op55578 - ms					✓
L 40	12	↓ - msd		↓			✓
L 41	13	FA23230 - 2		55582	↓		✓
L 42	14	↓ - 8			4X 100:400		RR 1X
L 43	15	FA23258 - 33			1X		✓
L 44	16	op55582 - ms					✓
L 45	17	↓ - msd		↓			✓
L 46	18	FA23252 - 1		55578			✓
L 47	19	- 2					✓ RR to confirm 4-Methyl ↓
L ↓ 48	20	↓ - 3	↓	↓	↓		✓ RR to confirm ↓

* For NELAC purposes, Method 625 includes analytes by SOP MS004 and 8270 includes analytes by SOP MS006

Manual Integration Rationale SOP QA029: MP Missed Peak, OP Overlapping Peak, SP Split Peak, PDB Poorly Defined Baseline, BR Baseline Ripple, PII Poor Instrument Integration

All strikeouts must be initialed and dated. If correction was not due to a transcription error, then list the reason for correction.

msbna02_l_log.xls NF rev. 08/09

Analyst's Signature: M. Valle

ACCUTEST LABORATORIES SE

DATE:	4/16/15
COLUMN TYPE:	TG-5MS
AMOUNT INJECTED:	2 ul
INSTRUMENT:	MSBNA02-L

MS BNA02-L ANALYSIS LOG

METHODS*:	8270D/1625
ACQ. METHOD:	ACQ_BNA
PROC. METHOD:	8270DAD402.m
CALIB. DATE:	4-2-15
RUN BATCH:	SL 3631

ANALYST:	M. Vallo
MECL2 LOT #:	149480
DFTPP RESPONSE:	935/681
EM VOLTAGE:	1776

DATA FILE	ALS #	SAMPLE ID	SAMPLE METHOD	OP BATCH	DF	MANUALLY INTEGRATED PEAKS RATIONALE, PEAK #	COMMENTS
L 0681749	21	FA23252-4	8270	55578	1X		✓
L 50	22	FA23258-1		55582			✓
L 51	23	-3					✓
L 52	24	-5					✓
L 53	25	-7					~~Fine~~ >10hr RR
L 54	26	-8					~~Fine~~
L 55	2	ecc 3629-50		55142 55120	100+100 / 200		Pass 58, 88, 92 ↓
L							
L							
L							
L							
L							
L							
L							
L							
L							
L							
L							
L							
L							

M.V.

* For NELAC purposes, Method 625 includes analytes by SOP MS004 and 8270 includes analytes by SOP MS006
Manual Integration Rationale SOP QA029: MP Missed Peak, OP Overlapping Peak, SP Split Peak, PDB Poorly Defined Baseline, BR Baseline Ripple, PII Poor Instrument Integration
All strikeouts must be initialed and dated. If correction was not due to a transcription error, then list the reason for correction.

msbna02_l_log.xls NF rev. 08/09

Analyst's Signature: M.V.

ACCUTEST LABORATORIES SE

DATE:	4/7/15
COLUMN TYPE:	TG-SMS
AMOUNT INJECTED:	2 ul
INSTRUMENT:	MSBNA02-L

MS BNA02-L ANALYSIS LOG

METHODS*:	8270D/625
ACQ. METHOD:	ACQ-BNA
PROC. METHOD:	8270DA0402.m
CALIB. DATE:	4-2-15
RUN BATCH:	SL 3632

ANALYST:	M. Valle
MECL2 LOT #:	149480
DFTPP RESPONSE:	1403003
EM VOLTAGE:	1776

I.S = S5147

DATA FILE	ALS #	SAMPLE ID	SAMPLE METHOD	OP BATCH	DF	MANUALLY INTEGRATED PEAKS RATIONALE, PEAK #	COMMENTS
L 06817 56	1	dftpp	DFTPP	S5131	1X		RR
L 57	1	dftpp	↓	↓	↓		Pass 0% degradation
L 58	2	CC3629-50	8270D	S5142 S5120	100+100 200		Benzoic A 88,89,92 ↑ mR Pass DPH
L 59	3	OP55582-bs		55582	1X		✓
L 60	4	↓ -mb					MD
L 61	5	FA23230-8					✓
L 62	6	FA23258-7					✓
L 63	7	-8					✓
L 64	8	-10					✓
L 65	9	-12					✓
L 66	10	-15					✓
L 67	11	-17					✓
L 68	12	-19					✓
L 69	13	-21					✓
L 70	14	-22					✓
L 71	15	-23					✓
L 72	16	-25					✓
L 73	17	-~~29~~					✓
L 74	18	-29 31					✓
L 75	19	~~FA23252-2~~ FA23258-31					✓

* For NELAC purposes, Method 625 includes analytes by SOP MS004 and 8270 includes analytes by SOP MS006

Manual Integration Rationale SOP QA029: MP Missed Peak, OP Overlapping Peak, SP Split Peak, PDB Poorly Defined Baseline, BR Baseline Ripple, PII Poor Instrument Integration

All strikeouts must be initialed and dated. If correction was not due to a transcription error, then list the reason for correction.

msbna02_l_log.xls NF rev. 08/09

Analyst's Signature: M.V.

ACCUTEST LABORATORIES SE

DATE:	4/7/15
COLUMN TYPE:	TG-5MS
AMOUNT INJECTED:	2 ul
INSTRUMENT:	MSBNA02-L

MS BNA02-L ANALYSIS LOG

METHODS*:	8270D/625
ACQ. METHOD:	ACQ-BNA
PROC. METHOD:	8270DA0402.M
CALIB. DATE:	4-2-15
RUN BATCH:	SL 3632

ANALYST:	M Valls
MECL2 LOT #:	149480
DFTPP RESPONSE:	1403003
EM VOLTAGE:	1776

DATA FILE	ALS #	SAMPLE ID	SAMPLE METHOD	OP BATCH	DF	MANUALLY INTEGRATED PEAKS RATIONALE, PEAK #	COMMENTS
L 0681776	20	FA23252-2	8270	55578 ~~55580~~	1X		Confirm low conc
L 77	21	↓ -3	↓	↓	1X		↓
L 78	2	ecc3629-50		55140 55120	100+100 200		43, 58, 69 ↓ 85, 87-89, 93, 94, 98 ↑
L							
L							
L							
L							
L							
L							
L							
L							
L					mw 4/7/15		
L							
L							
L							
L							
L							
L							
L							
L							

* For NELAC purposes, Method 625 includes analytes by SOP MS004 and 8270 includes analytes by SOP MS006
Manual Integration Rationale SOP QA029: MP Missed Peak, OP Overlapping Peak, SP Split Peak, PDB Poorly Defined Baseline, BR Baseline Ripple, PII Poor Instrument Integration
All strikeouts must be initialed and dated. If correction was not due to a transcription error, then list the reason for correction.

msbna02_l_log.xls NF rev. 08/09

Analyst's Signature: M. Valls

ACCUTEST LABORATORIES SE

DATE:	09-01-15
COLUMN TYPE:	7 65 MS
AMOUNT INJECTED:	5 ul
INSTRUMENT:	MSBNA06-T

MS BNA06-T ANALYSIS LOG

METHODS*:	8270D SMPAH
ACQ. METHOD:	ACQ_PAH
PROC. METHOD:	STMLW
CALIB. DATE:	09-01-15
RUN BATCH: ST	809

ANALYST:	MA
MECL2 LOT #:	085533
DFTPP RESPONSE:	1046640
EM VOLTAGE:	2165

	DATA FILE	ALS #	SAMPLE ID	SAMPLE METHOD	OP BATCH	DF	MANUALLY INTEGRATED PEAKS RATIONALE, PEAK #	COMMENTS I 5 5 J-110
T	017697	1	DFTPP	DFTPP	55131	1x		
T	98	2	ic809-1	8270	55136	1x 81592	#13 MP	Pass PCB Aroclor
T	99	3	-2			5x 10x490		
T	017700	4	-3			20x 20x980		
T	01	5	ic809 -4			10x 40x980		
T	02	6	ic809 -5			5x 100x490		
T	03	7	-6			2x 200x980		
T	04	8	-7			1x	#26 MP	
T	05	9	ic809-4		55137	20x 20x980		in w/ MW
T	06	9						Pass
T								
T								
T								
T								
T								
T								
T								
T								
T								
T								

MLA 09/01/15

MLA 09/01/15

* For NELAC purposes, Method 625 includes analytes by SOP MS004 and 8270 includes analytes by SOP MS006

Manual Integration Rationale SOP QA029: MP Missed Peak; OP Overlapping Peak; SP Split Peak; PDB Poorly Defined Baseline; BR Baseline Ripple; PII Poor Instrument Integration

All strikeouts must be initialed and dated. If correction was not due to a transcription error, then list the reason for correction.

msbna06_t_log.xls NF rev. 08/11

Analyst's Signature: [signature]

ACCUTEST LABORATORIES SE

DATE:	04-01-15
COLUMN TYPE:	7681MS
AMOUNT INJECTED:	5 ul
INSTRUMENT:	MSBNA06-T

MS BNA06-T ANALYSIS LOG

METHODS*:	8270D SIMPAH
ACQ. METHOD:	ACQ-PAH
PROC. METHOD:	STD
CALIB. DATE:	02-01-15
RUN BATCH:	ST 811

ANALYST:	MA
MECL2 LOT #:	0825223
DFTPP RESPONSE:	1367218
EM VOLTAGE:	2165

DATA FILE	ALS #	SAMPLE ID	SAMPLE METHOD	OP BATCH	DF	MANUALLY INTEGRATED PEAKS RATIONALE, PEAK #	COMMENTS I S S 5149
T 017723	1	DFTPP	DFTPP	55135	1X		Pass
T 24	2	CC809-5	8270	55136	5X 100+400		Pass
T 25	3	OP55540-BS		OP55540	1X		—
T 26	4	-MB					NO
T 27	16	Fa23193-4					NO
T 28	17	Fa23161-1					M 10x only IS fail
T 29	18	-2					MMX only IS fail
T 30	19	-3					
T 31	20	-4					
T 32	21	-5					M 10 x only IS fail
T 33	22	Fa23196-2					NO
T 34	23	Fa23199-1			40x 10+360		— Rep. 1X & 40X
T 35	24	Fa23193-1			10x 40+360		—
T 36	26	Fa23230-7		OP55560	1X		NO Reprep.
T 37	25	OP55505-MS		OP55505	4X 100+300		—
T 38	26	-MSD					—
T 39	27	Fa23221-3		OP55560	10X 40+360		—
T 40	28	OP55593-BS		OP55593	1X		— NO Reprep low
T 41	29	-MB					NO
T 42	30	Fa23228-14					

* For NELAC purposes, Method 625 includes analytes by SOP MS004 and 8270 includes analytes by SOP MS006
Manual Integration Rationale SOP QA029: MP Missed Peak, OP Overlapping Peak, SP Split Peak, PDB Poorly Defined Baseline, BR Baseline Ripple, PII Poor Instrument Integration
All strikeouts must be initialed and dated. If correction was not due to a transcription error, then list the reason for correction.

msbna06_t_log.xls NF rev. 08/11

Analyst's Signature: Maynd.

ACCUTEST LABORATORIES SE

DATE:	04-01-15
COLUMN TYPE:	7.65 ms
AMOUNT INJECTED:	5 ul
INSTRUMENT:	MSBNA06-T

MS BNA06-T ANALYSIS LOG

METHODS*:	8270 D SIM
ACQ. METHOD:	ACG-DAW
PROC. METHOD:	SIM.W
CALIB. DATE:	04-01-15
RUN BATCH:	ST 811

ANALYST:	MGA
MECL2 LOT #:	082533
DFTPP RESPONSE:	1367718
EM VOLTAGE:	2165

DATA FILE	ALS #	SAMPLE ID	SAMPLE METHOD	OP BATCH	DF	MANUALLY INTEGRATED PEAKS RATIONALE, PEAK #	COMMENTS
T017743	31	FC23271-13	8270	OP55593	1X		NO
T 44	1	dftpp	dftpp	55135	1X		Pass
T 45	2	CL05-5	8270	55136			Pass
T 46	32	OP55593MS	8270	OP55593	1X		—
T 47	33	-MSD					—
T 48	34	OP55576-BS		OP55576			—
T 49	35	-MB					NO
T 50	36	FC23230-10					NO
T 51	37	-12					NO
T 52	38	-20					NO
T 53	39	FC23262-2					NO
T 54	40	OP55576MS					—
T 55	41	-MSD					—
T 56	42	FC23262-1					NO
T 57	43	-3					NO
T 58	44	-4					NO
T 59	45	-5				emp	—
T 60	46	-6					~~Mz Low Only JSFK~~
T 61	47	-7					Mz Low Only JSFK
T 62	48	-8					Mz Low Only JSFK

* For NELAC purposes, Method 625 includes analytes by SOP MS004 and 8270 includes analytes by SOP MS006
Manual Integration Rationale SOP QA029: MP Missed Peak, OP Overlapping Peak, SP Split Peak, PDB Poorly Defined Baseline, BR Baseline Ripple, PII Poor Instrument Integration
All strikeouts must be initialed and dated. If correction was not due to a transcription error, then list the reason for correction.

msbna06_t_log.xls NF rev. 08/11

Analyst's Signature: MGA

ACCUTEST LABORATORIES SE

DATE:	04-07-15
COLUMN TYPE:	T6TMS
AMOUNT INJECTED:	5 ul
INSTRUMENT:	MSBNA06-T

MS BNA06-T ANALYSIS LOG

METHODS*:	8270D SIM/MH
ACQ. METHOD:	ACQ-MAW
PROC. METHOD:	SIM LV
CALIB. DATE:	04-01-15
RUN BATCH:	ST 811

ANALYST:	MAW
MECL2 LOT #:	0 875 33
DFTPP RESPONSE:	136 7318
EM VOLTAGE:	2165

DATA FILE	ALS #	SAMPLE ID	SAMPLE METHOD	OP BATCH	DF	MANUALLY INTEGRATED PEAKS RATIONALE, PEAK #	COMMENTS
T 017763	49	FA23262-9	8270	OP55576	1X		M 10X Rep. 1X & 10X
T 64	50	-10					
T 65	51	-11					M 25X only
T 66	~~52~~	DFTPP	DFTPP	55135			Pass
T 67	2	CLB05-5	8270	55136	SP 1:01400		Pass
T 68	52	FA23262-12		OP55576	1X		
T 69	53	FA23271-3					NO
T 70	54	-4					NO
T 71	55	-5					NO
T 72	76	FA23230-7		OP55360			NO
T 73	77	OP55593-BS		OP55593			NO Spk.
T 74	56	FA23276-4		OP55576			NO
T 75	57	-5			1X		NO
T 76	58	FA23271-6		OP55593			NO
T 77	59	-7					NO
T 78	60	-8					NO
T 79	61	-9					NO
T 80	62	-10					NO
T 81	63	-11					NO
T 82	64	~~FA23305-1~~ FA23280-3					NO

MAW 04-08-15

* For NELAC purposes, Method 625 includes analytes by SOP MS004 and 8270 includes analytes by SOP MS006
Manual Integration Rationale SOP QA029: MP Missed Peak, OP Overlapping Peak, SP Split Peak, PDB Poorly Defined Baseline, BR Baseline Ripple, PII Poor Instrument Integration
All strikeouts must be initialed and dated. If correction was not due to a transcription error, then list the reason for correction.

msbna06_t_log.xls NF rev. 08/11

Analyst's Signature: MAW

ACCUTEST LABORATORIES SE

DATE:	04-07-15
COLUMN TYPE:	7 65 MS
AMOUNT INJECTED:	5 ul
INSTRUMENT:	MSBNA06-T

MS BNA06-T ANALYSIS LOG

METHODS*:	8270 TUNE MS
ACQ. METHOD:	ACQ-BAN
PROC. METHOD:	STN_W
CALIB. DATE:	04-01-15
RUN BATCH:	ST 811

ANALYST:	MG
MECL2 LOT #:	083533
DFTPP RESPONSE:	1267518
EM VOLTAGE:	2165

DATA FILE	ALS #	SAMPLE ID	SAMPLE METHOD	OP BATCH	DF	MANUALLY INTEGRATED PEAKS RATIONALE, PEAK #	COMMENTS
T 017783	65	Fa23280-4	8270	OP55593	1x		—
T 04	66	-5					No
T 85	67	-6					No
T 86	68	Fa23291-3					—
T 87	69	Fa23305-1					MS25X Only IS Fail.
T 88	1	dftpp	dftpp	55135	1x		Pass
T 89	2	CC805.5	8270	55136	4x 100+400		Pass
T 90	70	Fa23264-1		OP55593	1x		—
T 91	71	-2					No
T 92	72	-3					—
T 93	73	-4					MS25X (Hg, IS Fail)
T 94	74	-5					No
T 95	75	-6					—
T 96	78	Fa23144-1		OP55590	10x 40+360		— D.F. CQ IS Fail.
T 97	79	-2			4x 100+300		ND D.F. CQ IS Fail.
T 98	80	-3					—
T 99	81	-4					—
T 017800	82	-5			10x 40+360		—
T 01	03	Fa23142-1		OP55594	100x 5+495		—
T 02	84	-8			20x 20+380		MPCYP 25X

* For NELAC purposes, Method 625 includes analytes by SOP MS004 and 8270 includes analytes by SOP MS006
Manual Integration Rationale SOP QA029: MP Missed Peak, OP Overlapping Peak, SP Split Peak, PDB Poorly Defined Baseline, BR Baseline Ripple, PII Poor Instrument Integration
All strikeouts must be initialed and dated. If correction was not due to a transcription error, then list the reason for correction.

msbna06_t_log.xls NF rev. 08/11

Analyst's Signature: Mary M

ACCUTEST LABORATORIES SE

DATE:	04-07-15
COLUMN TYPE:	TG5MS
AMOUNT INJECTED:	5 ul
INSTRUMENT:	MSBNA06-T

MS BNA06-T ANALYSIS LOG

METHODS*:	8270D SIMPAH
ACQ. METHOD:	ACQ-PAH
PROC. METHOD:	STM-LV
CALIB. DATE:	04-01-15
RUN BATCH: ST	811

ANALYST:	MB
MECL2 LOT #:	082573
DFTPP RESPONSE:	1367318
EM VOLTAGE:	2165

DATA FILE	ALS #	SAMPLE ID	SAMPLE METHOD	OP BATCH	DF	MANUALLY INTEGRATED PEAKS RATIONALE, PEAK #	COMMENTS
T 017803	85	FA23262-9	8270	OP55476	10X 40+360		
T 04	86	-11			20X 20+480		
T 05	1	dFkgp		55135	1X		PASS
T 06	2	CC809-5		55136	5X 100+400		PASS
T 07	87	OP55607-BS		OP55607	1X		
T 08	88	-MB					NO
T 09	89	FA23254-4					NO
T 10	90	-5					NO
T 11	91	FA23254-4304-1					NO
T 12	92	OP55607-MS					
T 13	93	-MSD					
T 14		FA23314-2			5X 100+400	24mp	MSOX (Mp. Sample)
T 15							
T 16							
T 17							
T 18							
T 19							
T 20							
T 21							
T 22							

* For NELAC purposes, Method 625 includes analytes by SOP MS004 and 8270 includes analytes by SOP MS006
Manual Integration Rationale SOP QA029: MP Missed Peak, OP Overlapping Peak, SP Split Peak, PDB Poorly Defined Baseline, BR Baseline Ripple, PII Poor Instrument Integration
All strikeouts must be initialed and dated. If correction was not due to a transcription error, then list the reason for correction.

msbna06_t_log.xls NF rev. 08/11

Analyst's Signature: MB

ACCUTEST LABORATORIES SE

DATE:	04-07-15
COLUMN TYPE:	7 65m
AMOUNT INJECTED:	5 ul
INSTRUMENT:	MSBNA06-T

MS BNA06-T ANALYSIS LOG

METHODS*:	8270D SIMPAH
ACQ. METHOD:	ACQ PAH
PROC. METHOD:	PSHA.LV
CALIB. DATE:	04-01-15
RUN BATCH:	ST 811

ANALYST:	MHA
MECL2 LOT #:	083533
DFTPP RESPONSE:	1363318
EM VOLTAGE:	2165

DATA FILE	ALS #	SAMPLE ID	SAMPLE METHOD	OP BATCH	DF	MANUALLY INTEGRATED PEAKS RATIONALE, PEAK #	COMMENTS
T 017823	5	FG23358-1	8270	DP55160	1x		ND
T 24	6	-2					—
T 25	7	-3				#2 mp	—
T 26	8	-4					ND
T 27	9	-5					— Mn 20x (hyp. 1X & 20x)
T 28	10	-6				#2 mp	— Mn 10X (hyp. 1X & 10X)
T 29	11	-7					— MMX only IS & i.l.
T 30	12	-8					— (Fails in window)
T 31	2	e 16809-5		55136	5x 100ml		
T							
T							
T							
T							
T							
T							
T							
T							
T							
T							

MHA 04-09-15

* For NELAC purposes, Method 625 includes analytes by SOP MS004 and 8270 includes analytes by SOP MS006
Manual Integration Rationale SOP QA029: **MP** Missed Peak, **OP** Overlapping Peak, **SP** Split Peak, **PDB** Poorly Defined Baseline, **BR** Baseline Ripple, **PII** Poor Instrument Integration
All strikeouts must be initialed and dated. If correction was not due to a transcription error, then list the reason for correction.

msbna06_t_log.xls NF rev. 08/11

Analyst's Signature: MHA

ACCUTEST LABORATORIES SE

DATE:	04-10-15
COLUMN TYPE:	7 65m
AMOUNT INJECTED:	5 ul
INSTRUMENT:	MSBNA06-T

MS BNA06-T ANALYSIS LOG

METHODS*:	8270 Mod
ACQ. METHOD:	A 10-PAH
PROC. METHOD:	5m-LV
CALIB. DATE:	04-10-15
RUN BATCH: ST	813

ANALYST:	MGD
MECL2 LOT #:	150358
DFTPP RESPONSE:	1839150
EM VOLTAGE:	2165

DATA FILE	ALS #	SAMPLE ID	SAMPLE METHOD	OP BATCH	DF	MANUALLY INTEGRATED PEAKS RATIONALE, PEAK #	COMMENTS
							IS 55149
T G9841	1	dftpp	dftpp	55135	1x	—	Pass
T 42	2	ic813-1	8270	55136	125x 25+490	#13 MP	
T 43	3	-2			50x 10+490		
T 44	4	-3			25x 25+490		
T 45	5	ic813-4			10x 40+360		
T 46	6	-5			5x 100+400		
T 47	7	-6			2x 200+200		
T 48	8	-7			1x		
T 49	9	ic813-4		55054	20x 20+380		
T 50	10	OP55593-BS		OP55593 650	1x		
T 51	11	-MB					NO
T 52	12	Fa23358-14					NO
T 53	13	Fa23264-1					
T 54	14	-2					NO
T 55	15	-3					
T 56	16	-4					Mg. 1x of 1000
T 57	17	-6					
T 58	18	Fa23271-6				#24 MP	
T 59	19	-7					
T 60	20	-8					NO

* For NELAC purposes, Method 625 includes analytes by SOP MS004 and 8270 includes analytes by SOP MS006
Manual Integration Rationale SOP QA029: MP Missed Peak, OP Overlapping Peak, SP Split Peak, PDB Poorly Defined Baseline, BR Baseline Ripple, PII Poor Instrument Integration
All strikeouts must be initialed and dated. If correction was not due to a transcription error, then list the reason for correction.

msbna06_t_log.xls NF rev. 08/11

Analyst's Signature: [signature]

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ACCUTEST LABORATORIES
FA23258

ACCUTEST LABORATORIES SE

DATE:	04-10-15
COLUMN TYPE:	Rtx-5MS
AMOUNT INJECTED:	5 ul
INSTRUMENT:	MSBNA06-T

MS BNA06-T ANALYSIS LOG

METHODS*:	8270 SIM
ACQ. METHOD:	A CQ 04H
PROC. METHOD:	STM-LK
CALIB. DATE:	04-10-15
RUN BATCH:	ST 813

ANALYST:	MA
MECL2 LOT #:	01507558
DFTPP RESPONSE:	1839150
EM VOLTAGE:	2165

DATA FILE	ALS #	SAMPLE ID	SAMPLE METHOD	OP BATCH	DF	MANUALLY INTEGRATED PEAKS RATIONALE, PEAK #	COMMENTS
T 017861	1	dftpp	dftpp	55135	1X		Pass
T 62	2	CC813-5	8270	55136	5X 100+400		Pass
T 63	21	Fa23271-9		Op55650	1X		No
T 64	22	-10					No
T 65	23	-11					No
T 66	24	Fa23280-3					No
T 67	25	-4					—
T 68	26	-5					No
T 69	27	-6					No
T 70	28	Fa23264-4			10X 40+200		—
T 71	29	Op55650-BS		Op55650	1X		—
T 72	30	-MB					No
T 73	31	Fa23368-1					No
T 74	32	-2					No
T 75	33	-3					— pm 10x (IS Fail)
T 76	34	Op55650-MS					
T 77	35	-MSD					
T 78	36	Op55553-BS		Op55553			—
T 79	37	-MB					No
T 80	38	Fa23291-3					pm 10x only (IS Fail)

* For NELAC purposes, Method 625 includes analytes by SOP MS004 and 8270 includes analytes by SOP MS006

Manual Integration Rationale SOP QA029: MP Missed Peak, OP Overlapping Peak, SP Split Peak, PDB Poorly Defined Baseline, BR Baseline Ripple, PII Poor Instrument Integration

All strikeouts must be initialed and dated. If correction was not due to a transcription error, then list the reason for correction.

msbna06_t_log.xls NF rev. 08/11

Analyst's Signature: MA

Instrument Run Log ST813 page 2 of 3

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ACCUTEST LABORATORIES FA23258

ACCUTEST LABORATORIES SE

DATE:	04-10-15
COLUMN TYPE:	7 ul
AMOUNT INJECTED:	5 ul
INSTRUMENT:	MSBNA06-T

MS BNA06-T ANALYSIS LOG

METHODS*:	8270 D SIM
ACQ. METHOD:	A Q
PROC. METHOD:	SIM LK
CALIB. DATE:	04/10/15
RUN BATCH: ST	813

ANALYST:	MG
MECL2 LOT #:	1403 58
DFTPP RESPONSE:	189150
EM VOLTAGE:	2165

DATA FILE	ALS #	SAMPLE ID	SAMPLE METHOD	OP BATCH	DF	MANUALLY INTEGRATED PEAKS RATIONALE, PEAK #	COMMENTS
T 017881	1	dfpp	dfpp	55135	1X		PASS
T 82	2	CC813-5	8270	55136	5X 100+400		PASS
T 83	39	Fa23305-1		Op55593	1X		—
T 84	40	Fa23358-5		Op55607	20X 20+380		—
T 85	41	Fa23358-6			10X 40+360		—
T 86	42	-7			4X 100+300		—
T 87	43	-8			1X		—
T 88	44	-10		Op55614	1X		—
T 89	45	Fa23306-4		Op55621			—
T 90	46	-5					—
T 91	47	Fa23344-1			10X 40+360	*6op *3 Mp	—
T 92	48	-8			1X	*24pp	—
T 93	49	-9			50X 10+490		—
T 94	50	Fa23352-1			1X		—
T 95	2	CC813-5		55136	5X 100+400		—
T							
T							
T							
T							
T							

MMN 4/13/15

* For NELAC purposes, Method 625 includes analytes by SOP MS004 and 8270 includes analytes by SOP MS006
Manual Integration Rationale SOP QA029: MP Missed Peak, OP Overlapping Peak, SP Split Peak, PDB Poorly Defined Baseline, BR Baseline Ripple, PII Poor Instrument Integration
All strikeouts must be initialed and dated. If correction was not due to a transcription error, then list the reason for correction.

msbna06_t_log.xls NF rev. 08/11

Analyst's Signature: MG

ACCUTEST LABORATORIES SE

DATE:	03/30/15
COLUMN TYPE:	7G-5MS
AMOUNT INJECTED:	1 ul
INSTRUMENT:	MSBNA05-X

MS BNA05-X ANALYSIS LOG

METHODS*:	8270D/625
ACQ. METHOD:	ACQ-BNA
PROC. METHOD:	8270D-0330
CALIB. DATE:	3/30/15
RUN BATCH:	SX 1826

ANALYST:	MAT
MECL2 LOT #:	149480
DFTPP RESPONSE:	22607082
EM VOLTAGE:	1600

DATA FILE	ALS #	SAMPLE ID	SAMPLE METHOD	OP BATCH	DF	MANUALLY INTEGRATED PEAKS RATIONALE, PEAK #	COMMENTS
X 039245	1	dftpp	8270	55131	1X		RR
X 46	1	dftpp					↓
X 47	2	IC1826-5		55142 55120	100+100 200		DNR
X 48	3	dftpp		55131	1X		PASS 0% degradation
X 49	4	IC1826-5		55142 55120	10+10	29=SP, 95=PII	Curve Pass
X 50	5	IC1826-10			20+20	29=SP	Level 60 Not used.
X 51	6	IC1826-25			50+50	29=SP	
X 52	7	ICC1826-50			100+100	29=SP	✓
X 53	8	IC1826-60			120+120	29, 36=SP	
X 54	9	IC1826-75			150+150	29=SP, 36=MP	
X 55	10	IC1826-100			200+200		↓
X 56	11	ICV1826-50		4new 7208E	2X		#2, #77↑, 74↓ pentachlorophenol → Hexachlorobenzene
X 57	12	ICV1826-50		7013C+6732 7142B	20+20+10		
X 58	13	ICV1826-50, 1 meth*		7075C	100X 5:500		Not use. *methylnaphthalene
X 59	14	op55454-bs		55454	1X	94=MP, 95=PII	~~94~~ ✓
X 60	15	op55454-mb			1X		ND
X 61	16	FA22854-1			50X 10:500		ND Dil. due to m.
X 62	17	op55475-bs		55475	1X	98=PII, 94=MP, 95=PII	✓
X 63	18	op55475-mb			1X		ND
X 64	19	FA22959-1			50X 10:500		✓

* For NELAC purposes, Method 625 includes analytes by SOP MS004 and 8270 includes analytes by SOP MS006
Manual Integration Rationale SOP QA029: MP Missed Peak, OP Overlapping Peak, SP Split Peak, PDB Poorly Defined Baseline, BR Baseline Ripple, PII Poor Instrument Integration
All strikeouts must be initialed and dated. If correction was not due to a transcription error, then list the reason for correction.

Analyst's Signature: M.V

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ACCUTEST LABORATORIES FA23258
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ACCUTEST LABORATORIES SE

DATE:	03/30/15
COLUMN TYPE:	TG-5MS
AMOUNT INJECTED:	1 ul
INSTRUMENT:	MSBNA05-X

MS BNA05-X ANALYSIS LOG

METHODS*:	8270D/625
ACQ. METHOD:	ACQ-BNA
PROC. METHOD:	8270D-0330
CALIB. DATE:	3/30/15
RUN BATCH: SX	1826

ANALYST:	MW
MECL2 LOT #:	149480
DFTPP RESPONSE:	2267082
EM VOLTAGE:	1600

	DATA FILE	ALS #	SAMPLE ID	SAMPLE METHOD	OP BATCH	DF	MANUALLY INTEGRATED PEAKS RATIONALE, PEAK #	COMMENTS
X	039265	20	FA22904-2L	8270	55483	~~10X~~ 100:500	5X	Approve 10X
X	66	21	FA22904-2L			10X 50:500	Comb.	✓
X	67	22	FA22970-4		55452	50X 10:500		✓
X	68	23	FA22970-3			100X 5:500		✓
X	69	24	FA22970-5			100X 5:500		✓
X								
X								
X								
X								
X								
X								
X								
X								
X								
X								
X								
X								
X								
X								
X								

MW 03/31/15

* For NELAC purposes, Method 625 includes analytes by SOP MS004 and 8270 includes analytes by SOP MS006
Manual Integration Rationale SOP QA029: MP Missed Peak, OP Overlapping Peak, SP Split Peak, PDB Poorly Defined Baseline, BR Baseline Ripple, PII Poor Instrument Integration
All strikeouts must be initialed and dated. If correction was not due to a transcription error, then list the reason for correction.

msbna05_x_log.xls NF rev. 08/09

Analyst's Signature: MW

ACCUTEST LABORATORIES SE

DATE:	04/01/15
COLUMN TYPE:	TG-5MS
AMOUNT INJECTED:	1 ul
INSTRUMENT:	MSBNA05-X

MS BNA05-X ANALYSIS LOG

METHODS*:	8270D/625
ACQ. METHOD:	ACQ-BNA
PROC. METHOD:	8270D-03302-M
CALIB. DATE:	03-30-15
RUN BATCH: SX	1828

ANALYST:	M-Valle
MECL2 LOT #:	149480
DFTPP RESPONSE:	1240747
EM VOLTAGE:	1565

I.S = 7188C

DATA FILE	ALS #	SAMPLE ID	SAMPLE METHOD	OP BATCH	DF	MANUALLY INTEGRATED PEAKS RATIONALE, PEAK #	COMMENTS
X 039300	1	dftpp	DFTPP	S5131	1X		Pass
X 01	2	cc1826-50	8270	S5142 S5120	100+100 / 200		RR
X 02	1	dftpp	DFTPP	S5131	1X		Pass
X 03	2	cc1826-50	8270	S5142 S5120	100+100 / 200	29=SP	Pass
X 04	3	icv1826-50					Hexachlorobenzene - Pass
X 05	4	op55531-bs		55531	1X	30=SP	✓
X 06	5	↓ -mb					ND
X 07	6	FA23041-1					✓
X 08	7	↓ -2					✓
X 09	8	FA23189-13					✓
X 10	9	-14					✓
X 11	10	-16					✓
X 12	11	-18					✓
X 13	12	-20					✓
X 14	13	-22					✓
X 15	14	-24					✓
X 16	15	-25					✓
X 17	16	-27					✓
X 18	17	↓ -29					✓
X ↓ 19	18	op55531-ms	↓	↓	↓		✓

* For NELAC purposes, Method 625 includes analytes by SOP MS004 and 8270 includes analytes by SOP MS006
Manual Integration Rationale SOP QA029: MP Missed Peak, OP Overlapping Peak, SP Split Peak, PDB Poorly Defined Baseline, BR Baseline Ripple, PII Poor Instrument Integration
All strikeouts must be initialed and dated. If correction was not due to a transcription error, then list the reason for correction.

msbna05_x_log.xls NF rev. 08/09

Analyst's Signature: M-V.

Instrument Run Log SX1828 page 1 of 2
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ACCUTEST LABORATORIES
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ACCUTEST LABORATORIES SE

DATE:	04/01/15
COLUMN TYPE:	TG-5MS
AMOUNT INJECTED:	1 ul
INSTRUMENT:	MSBNA05-X

MS BNA05-X ANALYSIS LOG

METHODS*:	8270D
ACQ. METHOD:	~~8270P~~ mw ACQ-BNA
PROC. METHOD:	8270D-03302.M
CALIB. DATE:	03-30-15
RUN BATCH:	SX 1828

ANALYST:	MW
MECL2 LOT #:	149480
DFTPP RESPONSE:	1240747
EM VOLTAGE:	1565

DATA FILE	ALS #	SAMPLE ID	SAMPLE METHOD	OP BATCH	DF	MANUALLY INTEGRATED PEAKS RATIONALE, PEAK #	COMMENTS
X 039320	19	op55531-MSD	8270	55531	1X		✓
X 21	20	FA23189-31					✓
X 22	21	-33					✓
X 23	22	-35					✓
X 24	23	-37					✓
X 25	24	-39					✓
X 26	25	-41					✓
X 27	2	ecc1826 -50					Pass
X							
X							
X							
X							
X							
X							
X						mw 4/2/15	
X							
X							
X							
X							
X							

* For NELAC purposes, Method 625 includes analytes by SOP MS004 and 8270 includes analytes by SOP MS006
Manual Integration Rationale SOP QA029: MP Missed Peak, OP Overlapping Peak, SP Split Peak, PDB Poorly Defined Baseline, BR Baseline Ripple, PII Poor Instrument Integration
All strikeouts must be initialed and dated. If correction was not due to a transcription error, then list the reason for correction.

msbna05_x_log.xls NF rev. 08/09

Analyst's Signature: M Valle

ACCUTEST LABORATORIES SE

DATE:	4/7/15
COLUMN TYPE:	TG-5MS
AMOUNT INJECTED:	2ul
INSTRUMENT:	MSBNA05-X

MS BNA05-X ANALYSIS LOG

METHODS*:	8270D
ACQ. METHOD:	ACQ-BNA
PROC. METHOD:	8270D-03302
CALIB. DATE:	3-30-15
RUN BATCH:	SX 1832

ANALYST:	M. Valle
MECL2 LOT #:	149480
DFTPP RESPONSE:	1335209
EM VOLTAGE:	1510.5

DATA FILE	ALS #	SAMPLE ID	SAMPLE METHOD	OP BATCH	DF	MANUALLY INTEGRATED PEAKS RATIONALE, PEAK #	COMMENTS
X 039413	1	dftpp	DFTPP	S5131	1X		RR
X 14	2	CC1826 – 50	8270	S5142 S5120	100+100 200		RR – due to Tune
X 15	1	dftpp	DFTPP	S5131	1X		PASS % degradation
X 16	2	CC1826 – 50	8270	S5142 S5120	100+100 200		– RR
X 17	3	CC1826 – 50		↓	↓		~~4-Nitrophenol~~ PASS # 84 ↓
X 18	4	op55584-bs		55584	1X		✓
X 19	5	↓ -mb					MD
X 20	6	FA23258-35					✓ RR Int. Std. fail
X 21	7	op55584-MS					✓
X 22	8	↓ -MSD					✓
X 23	9	FA23258-37					✓
X 24	10	-39					✓
X 25	11	↓ -41					✓
X 26	12	FA23276-1					✓
X 27	13	-2					✓
X 28	14	↓ -3			↓		RR 10X
X 29	15	FA23293-1			10X 50:500		✓ + 20X 2-methylen-
X 30	16	-2					✓ + 20X 2-methyl..
X 31	17	-3			↓		RR no internal-
X ↓ 32	18	↓ -4	↓	↓	1X		✓

* For NELAC purposes, Method 625 includes analytes by SOP MS004 and 8270 includes analytes by SOP MS006
Manual Integration Rationale SOP QA029: MP Missed Peak, OP Overlapping Peak, SP Split Peak, PDB Poorly Defined Baseline, BR Baseline Ripple, PII Poor Instrument Integration
All strikeouts must be initialed and dated. If correction was not due to a transcription error, then list the reason for correction.

msbna05_x_log.xls NF rev. 08/09

Analyst's Signature: M. Valle

ACCUTEST LABORATORIES SE

DATE:	4/7/15
COLUMN TYPE:	TG-5MS
AMOUNT INJECTED:	2 ul
INSTRUMENT:	MSBNA05-X

MS BNA05-X ANALYSIS LOG

METHODS*:	8270D
ACQ. METHOD:	ACQ-BNA
PROC. METHOD:	8270D-03302
CALIB. DATE:	3-30-15
RUN BATCH:	SX 1832

ANALYST:	MVallz
MECL2 LOT #:	149480
DFTPP RESPONSE:	1335209
EM VOLTAGE:	1565

	DATA FILE	ALS #	SAMPLE ID	SAMPLE METHOD	OP BATCH	DF	MANUALLY INTEGRATED PEAKS RATIONALE, PEAK #	COMMENTS
X	039433	19	FA23293-5	8270	55584	1X		✓
X	34	20	FA23181-1L		55570			✓
X	35	21	~~FA23140-1L~~ mv				FA23140-1	✓
X	36	22	op55570-bs					✓
X	37	23	ccc1826-50					Data not acquire - RR
X	38	3						
X	39	25	ccc1826-50		55142 55120	100/100 200		6 ↓ 42, 57, 68 ↓
X								
X								
X								
X								
X								
X								
X								
X								
X							MV	
X								
X								
X								
X								
X								

* For NELAC purposes, Method 625 includes analytes by SOP MS004 and 8270 includes analytes by SOP MS006
Manual Integration Rationale SOP QA029: MP Missed Peak, OP Overlapping Peak, SP Split Peak, PDB Poorly Defined Baseline, BR Baseline Ripple, PII Poor Instrument Integration
All strikeouts must be initialed and dated. If correction was not due to a transcription error, then list the reason for correction.

msbna05_x_log.xls NF rev. 08/09

Analyst's Signature: MVallz

ACCUTEST LABORATORIES SE

DATE:	4/8/15
COLUMN TYPE:	TG-5MS
AMOUNT INJECTED:	1 µl
INSTRUMENT:	MSBNA05-X

MS BNA05-X ANALYSIS LOG

METHODS*:	8270D/625
ACQ. METHOD:	ACQ-BNA
PROC. METHOD:	8270D-03302-M
CALIB. DATE:	03-30-15
RUN BATCH: SX	1833

ANALYST:	M Valle
MECL2 LOT #:	150358
DFTPP RESPONSE:	1107394
EM VOLTAGE:	1565

Intern. std: S5147

	DATA FILE	ALS #	SAMPLE ID	SAMPLE METHOD	OP BATCH	DF	MANUALLY INTEGRATED PEAKS RATIONALE, PEAK #	COMMENTS
X	039440	1	dftpp	DFTPP	S5131	1X		Pass 0% degradation
X	41	2	cc1826-50	8270	S5142 S5120	100+100 / 200		Pass
X	42	3	op556626-bs		556626	1X		low
X	43	4	op55578-bs		55578			✓
X	44	5	↓ -mb					ND
X	45	6	FA23280-1		↓			✓
X	46	7	op55599-bs		55599			✓
X	47	8	↓ -mb					ND
X	48	9	FA23318-1					✓
X	49	10	op55599-ms					✓
X	50	11	↓ -msd		↓			✓
X	51	35	FA23258-35		55584	↓		✓
X	52	12	FA23293-1			20X 25:50	Combine	✓
X	53	13	-2			↓	↓	✓
X	54	14	↓ -3		↓	10X 50:50		✓
X	55	15	FA23318-2		55599	1X		✓
X	56	16	-3					✓
X	57	17	-4					✓
X	58	18	↓ -5					ND
X	↓ 59	19	FA23338-12	↓	↓	↓		ND

* For NELAC purposes, Method 625 includes analytes by SOP MS004 and 8270 includes analytes by SOP MS006
Manual Integration Rationale SOP QA029: MP Missed Peak, OP Overlapping Peak, SP Split Peak, PDB Poorly Defined Baseline, BR Baseline Ripple, PII Poor Instrument Integration
All strikeouts must be initialed and dated. If correction was not due to a transcription error, then list the reason for correction.

msbna05_x_log.xls NF rev. 08/09

Analyst's Signature: M. Valle

ACCUTEST LABORATORIES SE

DATE:	4/8/15
COLUMN TYPE:	7b-5ms
AMOUNT INJECTED:	1 ul
INSTRUMENT:	MSBNA05-X

MS BNA05-X ANALYSIS LOG

METHODS*:	8270D/625
ACQ. METHOD:	ACQ-BNA
PROC. METHOD:	8270D-05302.M
CALIB. DATE:	03-30-15
RUN BATCH:	SX 1833

ANALYST:	M.Valle
MECL2 LOT #:	150358
DFTPP RESPONSE:	1107394
EM VOLTAGE:	1565

	DATA FILE	ALS #	SAMPLE ID	SAMPLE METHOD	OP BATCH	DF	MANUALLY INTEGRATED PEAKS RATIONALE, PEAK #	COMMENTS
X	0394060	20	FA23338-20	8270D	55599	1X		✓
X	61	21	↓ -21					✓
X	62	22	FA23237-1					ND
X	63	23	-2					✓
X	64	24	-3					✓
X	65	25	-4					✓
X	66	26	-5					✓
X	67	27	↓ -6					BDL
X	68	28	FA23274-1					✓
X	69	29	-2					ND
X	70	30	-3					>12hr RR 50X
X	71	31	↓ -4					>12hr RR 1X
X	72	32	FA23276-4					
X	73	33	-5					
X	74	34	↓ -6					↓
X	75	2	ECC1826-50		55142 55120 mw	100+102 2000		Pass
X								
X								
X						mw		
X								

* For NELAC purposes, Method 625 includes analytes by SOP MS004 and 8270 includes analytes by SOP MS006

Manual Integration Rationale SOP QA029: MP Missed Peak, OP Overlapping Peak, SP Split Peak, PDB Poorly Defined Baseline, BR Baseline Ripple, PII Poor Instrument Integration

All strikeouts must be initialed and dated. If correction was not due to a transcription error, then list the reason for correction.

msbna05_x_log.xls NF rev. 08/09

Analyst's Signature: M.Valle

ACCUTEST LABORATORIES SE

SOLID SAMPLE PREP REPORT

Date/Time: 04/03/15 9:35
Started {mm/dd/yy 24:00}

Date/Time: 04/03/15 13:15
Finished {mm/dd/yy 24:00}

Batch#: OP55582

Prep Method: 3550C 3580A or Method (circle)

Analytical Method: 8270

Ext. By: JC, BC Conc. By: ACM Vialed By: AA Balance ID: ADVP120 8

Sample ID	Bottle Number	Amount Extracted (g)	Surrogate Amount	Spike Amount	Final Volume (ml)	Comments
OP 55582 MB	X	30.0	0.5 ml		1.0 ml	
OP 55582 BS	X	30.0		0.5 ml 0.5 ml		
FA23230-2	5	30.3				
-8	5	30.4				
FA23258-1	1	30.2				
-3	1	29.8				
-5	1	29.8				
-7	1	29.7				
-8	1	29.8				
-10	1	29.7				
-12	1	29.8				
-15	1	30.4				
-17	1	29.9				
-19	1	30.1				
-21	1	30.4				
-22	1	30.4				
-23	1	30.3				
-25	1	30.3				
-27	1	30.4				
-29	1	30.5				
-31	1	30.0				
-33	1	30.4				MS, MSD
FA23258-33 MS	1	30.2		0.5 ml		
↓ MSD		30.3	↓		↓	
DUP						

Comments:

Surr. ID: ES110 Conc: 200/100ppm Exp. Date: 03/11/15 Inj. By: JC Ver. By: BC

Spk. ID: 7208E Conc: 100ppm Exp. Date: 09/30/15 Inj. By: JC Ver. By: BC

ES101.B 100ppm 09/02/15 JC BC

Initial Bath Temp (Therm ID): IV#8 Exchange Bath/N-Evap Temp (Therm ID): —

Observed Temp °C: 40°C Corr. Temp °C: — Observed Temp °C: — Corr. Temp °C: —

CH2CL2 Lot # 087533 Hexane Lot # — Na2SO4 Lot# 1955

Acetonitrile Lot # — Methanol Lot # — Acetone Lot# 701419

Syringe Filter Lot# — Filter Paper # 5966 Reagent # —

Copper Lot # — If Sulfur Cleaning is performed in Extractions (3660B)

Relinquished By: [signature] Date: 04/03/15

Accepted By: [signature] Date: 4/3/15 1:30pm

NF rev. 09/14/12 extsolid 091412.xls

7.8.1

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ACCUTEST LABORATORIES SE

SOLID SAMPLE PREP REPORT

Date/Time: 04/03/15 13:15
Started {mm/dd/yy 24:00}

Prep Method: 3550C 3580A or Method (circle)

Date/Time: 04/03/15 14:22 Batch#: OP55584
Finished {mm/dd/yy 24:00}

Analytical Method: 8270

Ext. By: JC,BC Conc. By: ACH Vialed By: ~~AA~~ MV 4-3-15 MV Balance ID: ADVFR08

Sample ID	Bottle Number	Amount Extracted (g)	Surrogate Amount	Spike Amount	Final Volume (ml)	Comments
OP 55584 MB	X	30.0	0.5mL		1.0mL	
OP 55584 BS	X	30.0		0.5mL 0.5mL		
FA23258-35	1	30.3				MS, MSD
-37	1	30.2				
-39	1	30.2				
-41	1	29.9				
FA23276-1	5	30.0				
-2	5	30.0				
-3	6	29.8				
FA23293-1	7	29.9				
-2	7	30.3				
-3	7	30.0				
-4	7	30.1				
-5	7	30.0				
					AA 04/03/15	
FA23258-35 MS	1	30.3	0.5mL	0.5mL	1.0mL	
MSD	1	30.4				
DUP						

Comments: Split Batch with OP55583

Surr. ID: E5110 Conc: 200/100ppm Exp. Date: 03/11/15 Inj. By: JC Ver. By BC

Spk. ID: 7208C Conc: 100 ppm Exp. Date: 09/30/15 Inj. By: JC Ver. By BC

E5101-B 100ppm 09/02/15 JC BC

Initial Bath Temp (Therm ID): TV#5 | Exchange Bath/N-Evap Temp (Therm ID): ✓

Observed Temp °C: 40C Corr. Temp °C: ✓ | Observed Temp °C: ✓ Corr. Temp °C: ✓

CH2CL2 Lot # 087533 Hexane Lot # ✓ Na2SO4 Lot# 551955

Acetonitrile Lot # ✓ Methanol Lot # ✓ Acetone Lot# 701419

Syringe Filter Lot# ✓ Filter Paper # 5966 Reagent # ✓

Copper Lot # ✓ If Sulfur Cleaning is performed in Extractions (3660B)

Relinquished By: [signature] Date: 04/03/15

Accepted By: [signature] Date: 4/3/15 1474

NF rev. 09/14/12 extsolid 091412.xls

7.8.2

7

ACCUTEST LABORATORIES SE

LIQUID SAMPLE PREP REPORT

Date/Time Started: 04/03/15 16:15 (mm/dd/yy 24:00)

Date/Time Finished: 04/04/15 1800 (mm/dd/yy 24:00)

Prep Method: 3510C 3580A or Method (circle)

Analytical Method: 8270 SIM PAH LVI 04/04/15 SP

Batch#: 55593 Ext. By: MJJ, JT, YFS, SP Conc. By: SP Vialed By: SP

Sample ID	Bottle Number	Amount Extracted (ml)	Initial pH	Adjusted pH	Surrogate Amount	Spike Amount	Final Volume (ml)	Comments
OP 55593 MB		250	6	<2,7 11	0.5mL		1.0	
OP BS		250	6			0.1mL		
FA23258-14	1	230						
FA23271-6	6	250						
-7	6	240						
-8	5	260						
-9	6	250						
-10	5	250						
-11	5	250						
-13	5	250						
FA23305-1	10	230						
FA23264-1	5	250						
-2	6	250						
-3	5	250						
-4	5	250						
-5	5	250						
-6	6	250						
FA23280-3	6	266						
-4	5	250						
-5	5	260						
-6	5	250						
FA23291-3	4	266						
FA23271-13 MS	6	125				0.1mL		
MSD	6	125						
DUP								SP 04/04/15

Comments:

Surr. ID: E51114 Conc: 8/4ppm Exp. Date: 09/12/15 Inj. By: SP Ver. By MJJ

Spk. ID: E5093-C Conc: 20/40ppm Exp. Date: 08/18/15 Inj. By: SP Ver. By MJJ

Initial Bath Temp (Therm ID): TV #5

Observed Temp °C: 45 Corr. Temp °C: —

Exchange Bath/N-Evap Temp (Therm ID): —

Observed Temp °C: — Corr. Temp °C: —

CH2CL2 Lot # 150358

Hexane Lot # —

Na2SO4 Lot# —

Acetonitrile Lot # —

Methanol Lot # —

Acetone Lot# —

Syringe Filter Lot# —

Na2SO4 Reagent # 410227

NaOH Reagent # GN16442

Copper Lot # — If Sulfur Cleaning is performed in Extractions (3660B)

Relinquished By: [signature] Date: ~~04/04/15~~ 04/03/15 DC

Accepted By: [signature] Date: 04/06/15

NF rev. 09/14/12 extwater 091412.xls

7.8.3

7

ACCUTEST LABORATORIES SE

LIQUID SAMPLE PREP REPORT

Date/Time: 04/08/15 1530
Started {mm/dd/yy 24:00}

Date/Time: 04/08/15 1700
Finished {mm/dd/yy 24:00}

Prep Method: 3510C 3580A or Method (circle)

Analytical Method: SmLVi

Batch#: 555650 Ext. By: MSJ JT, SP Conc. By: JT Vialed By: JT

Sample ID	Bottle Number	Amount Extracted (ml)	Initial pH	Adjusted pH	Surrogate Amount	Spike Amount	Final Volume (ml)	Comments
OP 555650 MB	X	250	6	<2, >11	0.5mL		1.0mL	nacl 140952
OP 555650 BS	X	250				0.1mL		nacl 140952
FA23258-14	2	240						
FA23271-6	5	240						
-7	5	240						
-8	6	240						
-9	5	240						
-10	6	240						
-11	6	240						
FA23264-1	6	240						
-2	5	240	6					
-3	6	240						
-4	6	240						
* -5	6	240						*sample lost
-6	5	240						
FA23280-3	5	260						
-4	6	260						
-5	6	260						
-6	6	260						
FA23368-1	12	200						
-2	12	200						
-3	12	200						
FA23348-3 MS	11	125	6			0.1mL		
-3 MSD	11	125	6					
DUP								

Comments:

Surr. ID: ES111F Conc: 8/4ppm Exp. Date: 09/12/15 Inj. By: MSJ Ver. By JT

Spk. ID: ES093L Conc: 20/40ppm Exp. Date: 08/18/15 Inj. By: MSJ Ver. By JT

Initial Bath Temp (Therm ID): TV # 5
Observed Temp °C: 45° Corr. Temp °C: —

Exchange Bath/N-Evap Temp (Therm ID): —
Observed Temp °C: — Corr. Temp °C: —

CH2CL2 Lot # 150358 Hexane Lot # — Na2SO4 Lot#

Acetonitrile Lot # — Methanol Lot # — Acetone Lot# —

Syringe Filter Lot# H2SO4 Reagent # 410227 NaOH Reagent # GN16442

Copper Lot # — If Sulfur Cleaning is performed in Extractions (3660B)

Relinquished By: Date: 04/08/15

Accepted By: Date: 04/09/15

NF rev. 09/14/12 extwater 091412.xls

7.8.4

7

Southeast ACCUTEST LABORATORIES

Metals Analysis

QC Data Summaries

Includes the following where applicable:

- Instrument Runlogs
- Initial and Continuing Calibration Blanks
- Initial and Continuing Calibration Checks
- High and Low Check Standards
- Interfering Element Check Standards
- Method Blank Summaries
- Matrix Spike and Duplicate Summaries
- Blank Spike and Lab Control Sample Summaries
- Serial Dilution Summaries
- IDL and Linear Range Summaries

Accutest Laboratories Instrument Runlog
Inorganics Analyses

Login Number: FA23258
Account: FPMRNYR - FPM Remediations
Project: HM-AZ PBR Holloman AFB; Alamogordo, NM

File ID: SA040315M1.ICP Date Analyzed: 04/03/15 Methods: SW846 6010C
Analyst: LM Run ID: MA12317
Parameters: Sb,As,Cu,Pb,Zn

Time	Sample Description	Dilution Factor	PS Recov	Comments
07:16	MA12317-STD1	1		STDA
07:19	MA12317-STD2	1		STDB
07:23	MA12317-STD3	1		STDC
07:26	MA12317-STD4	1		STDD
07:30	MA12317-HSTD1	1		
07:34	MA12317-ICV1	1		
07:39	MA12317-ICB1	1		
07:43	MA12317-CRIA1	1		
07:47	MA12317-CRIA2	1		
07:52	MA12317-ICSA1	1		
07:58	MA12317-ICSAB1	1		
08:02	MA12317-CCV1	1		
08:07	MA12317-CCB1	1		
08:11	MP28748-MB1	1		
08:15	MP28748-B1	1		
08:20	FA23034-3	1		(sample used for QC only; not part of login FA23258)
08:24	MP28748-D1	1		
08:29	MP28748-SD1	5		
08:33	MP28748-S1	1		
08:37	MP28748-S2	1		
08:42	ZZZZZZ	1		
08:46	ZZZZZZ	1		
08:51	ZZZZZZ	1		
08:55	MA12317-CCV2	1		
09:00	MA12317-CCB2	1		
09:24	MA12317-CCV3	1		
09:30	MA12317-CCB3	1		
09:34	ZZZZZZ	1		
09:39	ZZZZZZ	1		
09:43	ZZZZZZ	1		
09:48	ZZZZZZ	1		
09:52	ZZZZZZ	1		
09:56	ZZZZZZ	1		

Accutest Laboratories Instrument Runlog
Inorganics Analyses

Login Number: FA23258
Account: FPMRNYR - FPM Remediations
Project: HM-AZ PBR Holloman AFB; Alamogordo, NM

File ID: SA040315M1.ICP Date Analyzed: 04/03/15 Methods: SW846 6010C
Analyst: LM Run ID: MA12317
Parameters: Sb,As,Cu,Pb,Zn

Time	Sample Description	Dilution Factor	PS Recov	Comments
10:01	ZZZZZZ	1		
10:05	ZZZZZZ	1		
10:10	FA23181-1L	1		(sample used for QC only; not part of login FA23258)
10:14	ZZZZZZ	1		
10:19	MA12317-CCV4	1		
10:23	MA12317-CCB4	1		
11:05	MP28748-D2	1		
11:10	MP28748-MB2	1		
11:14	MP28748-B2	1		
11:18	MP28748-MB3	1		
11:23	MP28748-B3	1		
11:27	MP28748-MB4	1		
11:32	MP28748-B4	1		
11:36	MP28748-MB5	1		
11:41	MP28748-B5	1		
11:45	ZZZZZZ	4		
11:49	MA12317-CCV5	1		
11:54	MA12317-CCB5	1		
11:58	ZZZZZZ	10		
12:03	ZZZZZZ	10		
12:07	ZZZZZZ	25		
12:12	ZZZZZZ	20		
12:16	ZZZZZZ	25		
12:21	FA22818-1	10		(sample used for QC only; not part of login FA23258)
12:26	MP28745-D1	10		
12:30	MP28745-D2	10		
12:35	MP28745-S1	10		
12:40	MP28745-S2	10		
12:44	MA12317-CCV6	1		
12:49	MA12317-CCB6	1		
12:53	MP28745-PS1	10		
12:58	MP28745-SD1	50		
13:02	MP28752-MB1	1		

Accutest Laboratories Instrument Runlog
Inorganics Analyses

Login Number: FA23258
Account: FPMRNYR - FPM Remediations
Project: HM-AZ PBR Holloman AFB; Alamogordo, NM

File ID: SA040315M1.ICP Date Analyzed: 04/03/15 Methods: SW846 6010C
Analyst: LM Run ID: MA12317
Parameters: Sb,As,Cu,Pb,Zn

Time	Sample Description	Dilution Factor	PS Recov	Comments
13:07	MP28752-B1	1		
13:40	MA12317-CCV7	1		
13:44	MA12317-CCB7	1		
14:07	MA12317-CCV8	1		
14:17	MA12317-CCB8	1		
16:07	MA12317-CCV9	1		
16:14	MA12317-CCB9	1		
16:18	FA23258-1	10		
16:23	FA23258-3	10		
16:27	FA23258-7	10		
16:32	FA23258-8	10		
16:36	FA23258-10	10		
16:41	FA23258-12	10		
16:45	FA23258-15	10		
16:50	FA23258-17	10		
16:54	FA23258-19	10		
16:59	FA23258-21	10		
17:03	MA12317-CCV10	1		
17:08	MA12317-CCB10	1		
17:12	FA23258-22	10		
17:17	FA23258-23	10		
17:22	FA23258-25	10		
17:26	FA23258-27	10		
17:31	FA23258-29	10		
17:35	FA23258-31	10		
17:40	FA23258-33	10		
---------->	Last reportable sample/prep for job FA23258			
17:44	ZZZZZZ	10		
17:49	ZZZZZZ	10		
17:54	MP28754-MB1	1		
17:58	MA12317-CCV11	1		
18:03	MA12317-CCB11	1		
18:07	MP28754-B1	1		
18:52	MA12317-CCV12	1		

Accutest Laboratories Instrument Runlog
Inorganics Analyses

Login Number: FA23258
Account: FPMRNYR - FPM Remediations
Project: HM-AZ PBR Holloman AFB; Alamogordo, NM

File ID: SA040315M1.ICP Date Analyzed: 04/03/15 Methods: SW846 6010C
Analyst: LM Run ID: MA12317
Parameters: Sb,As,Cu,Pb,Zn

Time	Sample Description	Dilution Factor	PS Recov	Comments
18:56	MA12317-CCB12	1		
19:46	MA12317-CCV13	1		
19:50	MA12317-CCB13	1		
19:59	ZZZZZZ	1		
20:04	ZZZZZZ	1		
20:08	ZZZZZZ	1		
20:13	ZZZZZZ	1		
20:17	ZZZZZZ	1		
20:22	MA12317-CRIA3	1		
20:26	MA12317-ICSA2	1		
20:31	MA12317-ICSAB2	1		
20:35	MA12317-CCV14	1		
20:40	MA12317-CCB14	1		

----------> Last reportable CCB for job FA23258
Refer to raw data for calibration curve and standards.

INTERNAL STANDARD SUMMARY

Login Number: FA23258
Account: FPMRNYR - FPM Remediations
Project: HM-AZ PBR Holloman AFB; Alamogordo, NM

File ID: SA040315M1.ICP Date Analyzed: 04/03/15 Methods: SW846 6010C
Analyst: LM Run ID: MA12317
Parameters: Sb,As,Cu,Pb,Zn

Time	Sample Description	Istd#1	Istd#2	Istd#3	Istd#4
07:16	MA12317-STD1	8461	56554	2412	3763
07:19	MA12317-STD2	8301	55409	2422	3507
07:23	MA12317-STD3	7844	52269	2342	3155
07:26	MA12317-STD4	7648	51189	2291	2991
07:30	MA12317-HSTD1	7591	51307	2308	2970
07:34	MA12317-ICV1	7872	53091	2326	3176
07:39	MA12317-ICB1	8151 R	55057 R	2360 R	3668 R
07:43	MA12317-CRIA1	8052			
07:47	MA12317-CRIA2	8012	53913	2353	3472
07:52	MA12317-ICSA1	7353	47733	2172	2876
07:58	MA12317-ICSAB1	7287	47574	2210	2829
08:02	MA12317-CCV1	7754	52003	2268	3140
08:07	MA12317-CCB1	8156	55236	2341	3694
08:11	MP28748-MB1	8235	56135	2354	3699
08:15	MP28748-B1	7950	53671	2357	3333
08:20	FA23034-3	7979	53145	2367	3326
08:24	MP28748-D1	7940	52492	2361	3321
08:29	MP28748-SD1	8037	53963	2303	3483
08:33	MP28748-S1	7902	51781	2274	3188
08:37	MP28748-S2	8085	52675	2299	3255
08:42	ZZZZZZ	7953	52568	2240	3314
08:46	ZZZZZZ	7924	51879	2210	3289
08:51	ZZZZZZ	7911	50910	2097	3271
08:55	MA12317-CCV2	7608	50097	2070	3109
09:00	MA12317-CCB2	7971	52466	2061	3615
09:24	MA12317-CCV3	7569	49867	2052	3100
09:30	MA12317-CCB3	8164	54058	2158	3715
09:34	ZZZZZZ	7820	50775	2126	3255
09:39	ZZZZZZ	7778	50459	2103	3241
09:43	ZZZZZZ	7811	50925	2108	3255
09:48	ZZZZZZ	7841	50304	2105	3276
09:52	ZZZZZZ	7704	49966	2121	3204
09:56	ZZZZZZ	7692	50103	2097	3236

INTERNAL STANDARD SUMMARY

Login Number: FA23258
Account: FPMRNYR - FPM Remediations
Project: HM-AZ PBR Holloman AFB; Alamogordo, NM

File ID: SA040315M1.ICP Date Analyzed: 04/03/15 Methods: SW846 6010C
Analyst: LM Run ID: MA12317
Parameters: Sb,As,Cu,Pb,Zn

Time	Sample Description	Istd#1	Istd#2	Istd#3	Istd#4
10:01	ZZZZZZ	7688	49518	2080	3203
10:05	ZZZZZZ	7724	49882	2059	3229
10:10	FA23181-1L	7747	49635	2062	3195
10:14	ZZZZZZ	7930	54022	2218	3599
10:19	MA12317-CCV4	7850	52386	2209	3221
10:23	MA12317-CCB4	8175	54694	2228	3729
11:05	MP28748-D2	7956	52341	2236	3308
11:10	MP28748-MB2	7970	53008	2247	3381
11:14	MP28748-B2	7982	52056	2212	3270
11:18	MP28748-MB3	7934	51760	2203	3333
11:23	MP28748-B3	7900	50828	2171	3218
11:27	MP28748-MB4	7944	52322	2210	3327
11:32	MP28748-B4	7950	51329	2145	3231
11:36	MP28748-MB5	8358	55867	2163	3753
11:41	MP28748-B5	8067	52547	2151	3382
11:45	ZZZZZZ	6947	43753	2051	2720
11:49	MA12317-CCV5	7971	52172	2137	3243
11:54	MA12317-CCB5	8398	55661	2208	3790
11:58	ZZZZZZ	7925	52003	2166	3204
12:03	ZZZZZZ	8614	56146	2255	3406
12:07	ZZZZZZ	9255	60935	2393	3686
12:12	ZZZZZZ	9027	59535	2342	3714
12:16	ZZZZZZ	8917	58615	2300	3710
12:21	FA22818-1	8925	57989	2398	3282
12:26	MP28745-D1	9041	58235	2420	3309
12:30	MP28745-D2	8943	58174	2399	3266
12:35	MP28745-S1	8811	57149	2358	3277
12:40	MP28745-S2	9028	58728	2424	3210
12:44	MA12317-CCV6	7761	51119	2083	3179
12:49	MA12317-CCB6	8177	54165	2138	3723
12:53	MP28745-PS1	8868	57462	2380	3285
12:58	MP28745-SD1	8280	54203	2184	3508
13:02	MP28752-MB1	8305	56079	2183	3758

INTERNAL STANDARD SUMMARY

Login Number: FA23258
Account: FPMRNYR - FPM Remediations
Project: HM-AZ PBR Holloman AFB; Alamogordo, NM

File ID: SA040315M1.ICP Date Analyzed: 04/03/15 Methods: SW846 6010C
Analyst: LM Run ID: MA12317
Parameters: Sb,As,Cu,Pb,Zn

Time	Sample Description	Istd#1	Istd#2	Istd#3	Istd#4
13:07	MP28752-B1	7939	52728	2111	3335
13:40	MA12317-CCV7	8552	53002	1830	3435
13:44	MA12317-CCB7	9127	57304	1975	4052
14:07	MA12317-CCV8	8712	55152	2021	3501
14:17	MA12317-CCB8	9167	58122	2087	4083
16:07	MA12317-CCV9	8067	53755	2278	2698
16:14	MA12317-CCB9	8363	55882	2316	3087
16:18	FA23258-1	7850	52263	2204	2672
16:23	FA23258-3	7693	50310	2113	2617
16:27	FA23258-7	7798	50102	2064	2639
16:32	FA23258-8	7905	50564	2067	2674
16:36	FA23258-10	7824	50580	2064	2655
16:41	FA23258-12	7859	51050	2093	2624
16:45	FA23258-15	7973	51021	2076	2698
16:50	FA23258-17	8278	52636	2161	2759
16:54	FA23258-19	7963	50802	2052	2696
16:59	FA23258-21	7948	50943	2070	2653
17:03	MA12317-CCV10	7809	50155	1982	2628
17:08	MA12317-CCB10	8313	53097	2088	3034
17:12	FA23258-22	7976	51033	2100	2654
17:17	FA23258-23	8018	50933	2082	2673
17:22	FA23258-25	8106	50867	2069	2689
17:26	FA23258-27	8034	50544	2083	2681
17:31	FA23258-29	8044	50612	2033	2658
17:35	FA23258-31	8448	52201	2089	2806
17:40	FA23258-33	8488	51429	2097	2850
17:44	ZZZZZZ	8131	50209	2009	2723
17:49	ZZZZZZ	8291	51270	2062	2744
17:54	MP28754-MB1	8852	55415	2134	3157
17:58	MA12317-CCV11	8166	51447	2064	2699
18:03	MA12317-CCB11	8602	53971	2082	3081
18:07	MP28754-B1	8471	53214	2072	2847
18:52	MA12317-CCV12	8198	51539	2011	2664

INTERNAL STANDARD SUMMARY

Login Number: FA23258
Account: FPMRNYR - FPM Remediations
Project: HM-AZ PBR Holloman AFB; Alamogordo, NM

File ID: SA040315M1.ICP Date Analyzed: 04/03/15 Methods: SW846 6010C
Analyst: LM Run ID: MA12317
Parameters: Sb,As,Cu,Pb,Zn

Time	Sample Description	Istd#1	Istd#2	Istd#3	Istd#4
18:56	MA12317-CCB12	8615	53990	2031	3036
19:46	MA12317-CCV13	8146	51200	1970	2616
19:50	MA12317-CCB13	8558	53333	2006	2994
19:59	ZZZZZZ	9127	56136	2136	2869
20:04	ZZZZZZ	9341	57817	2241	2757
20:08	ZZZZZZ	9401	58616	2280	2707
20:13	ZZZZZZ	8715	53615	2113	2691
20:17	ZZZZZZ	9254	57420	2224	2819
20:22	MA12317-CRIA3	8533	53441	2000	2888
20:26	MA12317-ICSA2	7783	47452	1910	2493
20:31	MA12317-ICSAB2	7776	47958	1939	2461
20:35	MA12317-CCV14	8260	51408	1975	2647
20:40	MA12317-CCB14	8791	54146	2067	3057

R = Reference for ISTD limits. ! = Outside limits.

LEGEND:

Istd#	Parameter	Limits
Istd#1	Yttrium (2243)	60-125 %
Istd#2	Yttrium (3600)	60-125 %
Istd#3	Yttrium (3710)	60-125 %
Istd#4	Indium	60-125 %

BLANK RESULTS SUMMARY
Part 1 - Initial and Continuing Calibration Blanks

Login Number: FA23258
Account: FPMRNYR - FPM Remediations
Project: HM-AZ PBR Holloman AFB; Alamogordo, NM

File ID: SA040315M1.ICP Date Analyzed: 04/03/15 Methods: SW846 6010C
QC Limits: result < RL Run ID: MA12317 Units: ug/l

Time:			07:39		08:07		09:00		09:30	
Sample ID:			ICB1		CCB1		CCB2		CCB3	
Metal	RL	IDL	raw	final	raw	final	raw	final	raw	final
Aluminum	200	14	anr							
Antimony	6.0	1	0.20	<6.0	-0.20	<6.0	0.50	<6.0	2.5	<6.0
Arsenic	10	1.3	1.2	<10	1.4	<10	0.30	<10	0.40	<10
Barium	200	1	anr							
Beryllium	4.0	.2								
Cadmium	5.0	.2	anr							
Calcium	1000	50								
Chromium	10	1	anr							
Cobalt	50	.2								
Copper	25	1	0.0	<25	0.0	<25	-0.30	<25	0.20	<25
Iron	300	17	anr							
Lead	5.0	1	-0.30	<5.0	-1.1	<5.0	-1.1	<5.0	0.20	<5.0
Magnesium	5000	35								
Manganese	15	.5	anr							
Molybdenum	50	.3								
Nickel	40	.4								
Potassium	10000	200								
Selenium	10	2.4	anr							
Silver	10	.7	anr							
Sodium	10000	500	anr							
Strontium	10	.5								
Thallium	10	1.1	anr							
Tin	50	.9								
Titanium	10	.5								
Vanadium	50	.5								
Zinc	20	3	-0.20	<20	-0.10	<20	-0.10	<20	0.10	<20

(*) Outside of QC limits
(anr) Analyte not requested

BLANK RESULTS SUMMARY
Part 1 - Initial and Continuing Calibration Blanks

Login Number: FA23258
Account: FPMRNYR - FPM Remediations
Project: HM-AZ PBR Holloman AFB; Alamogordo, NM

File ID: SA040315M1.ICP Date Analyzed: 04/03/15 Methods: SW846 6010C
QC Limits: result < RL Run ID: MA12317 Units: ug/l

Time:			10:23		11:54		12:49		13:44	
Sample ID:			CCB4		CCB5		CCB6		CCB7	
Metal	RL	IDL	raw	final	raw	final	raw	final	raw	final
Aluminum	200	14	anr							
Antimony	6.0	1	-0.60	<6.0	1.0	<6.0	-0.50	<6.0	1.0	<6.0
Arsenic	10	1.3	0.70	<10	-0.60	<10	-0.50	<10	-0.60	<10
Barium	200	1	anr							
Beryllium	4.0	.2								
Cadmium	5.0	.2	anr							
Calcium	1000	50								
Chromium	10	1	anr							
Cobalt	50	.2								
Copper	25	1	0.30	<25	0.10	<25	0.40	<25	-0.50	<25
Iron	300	17	anr							
Lead	5.0	1	0.60	<5.0	0.0	<5.0	0.20	<5.0	0.30	<5.0
Magnesium	5000	35								
Manganese	15	.5	anr							
Molybdenum	50	.3								
Nickel	40	.4								
Potassium	10000	200								
Selenium	10	2.4	anr							
Silver	10	.7	anr							
Sodium	10000	500	anr							
Strontium	10	.5								
Thallium	10	1.1	anr							
Tin	50	.9								
Titanium	10	.5								
Vanadium	50	.5								
Zinc	20	3	0.10	<20	0.10	<20	0.10	<20	0.10	<20

(*) Outside of QC limits
(anr) Analyte not requested

BLANK RESULTS SUMMARY
Part 1 - Initial and Continuing Calibration Blanks

Login Number: FA23258
Account: FPMRNYR - FPM Remediations
Project: HM-AZ PBR Holloman AFB; Alamogordo, NM

File ID: SA040315M1.ICP Date Analyzed: 04/03/15 Methods: SW846 6010C
QC Limits: result < RL Run ID: MA12317 Units: ug/l

Time:			14:17		16:14		17:08		18:03	
Sample ID:			CCB8		CCB9		CCB10		CCB11	
Metal	RL	IDL	raw	final	raw	final	raw	final	raw	final
Aluminum	200	14	anr							
Antimony	6.0	1	2.5	<6.0	1.9	<6.0	1.8	<6.0	1.4	<6.0
Arsenic	10	1.3	-0.40	<10	0.60	<10	1.1	<10	1.2	<10
Barium	200	1	anr							
Beryllium	4.0	.2								
Cadmium	5.0	.2	anr							
Calcium	1000	50								
Chromium	10	1	anr							
Cobalt	50	.2								
Copper	25	1	0.40	<25	0.90	<25	0.50	<25	0.10	<25
Iron	300	17	anr							
Lead	5.0	1	1.1	<5.0	-1.1	<5.0	-0.70	<5.0	-0.90	<5.0
Magnesium	5000	35								
Manganese	15	.5	anr							
Molybdenum	50	.3								
Nickel	40	.4								
Potassium	10000	200								
Selenium	10	2.4	anr							
Silver	10	.7	anr							
Sodium	10000	500	anr							
Strontium	10	.5								
Thallium	10	1.1	anr							
Tin	50	.9								
Titanium	10	.5								
Vanadium	50	.5								
Zinc	20	3	0.20	<20	0.30	<20	0.30	<20	0.20	<20

(*) Outside of QC limits
(anr) Analyte not requested

BLANK RESULTS SUMMARY
Part 1 - Initial and Continuing Calibration Blanks

Login Number: FA23258
Account: FPMRNYR - FPM Remediations
Project: HM-AZ PBR Holloman AFB; Alamogordo, NM

File ID: SA040315M1.ICP Date Analyzed: 04/03/15 Methods: SW846 6010C
QC Limits: result < RL Run ID: MA12317 Units: ug/l

Time:			18:56		19:50		20:40	
Sample ID:			CCB12		CCB13		CCB14	
Metal	RL	IDL	raw	final	raw	final	raw	final
Aluminum	200	14	anr					
Antimony	6.0	1	1.2	<6.0	1.5	<6.0	2.4	<6.0
Arsenic	10	1.3	1.9	<10	1.0	<10	1.6	<10
Barium	200	1	anr					
Beryllium	4.0	.2						
Cadmium	5.0	.2	anr					
Calcium	1000	50						
Chromium	10	1	anr					
Cobalt	50	.2						
Copper	25	1	-0.10	<25	-0.10	<25	-0.50	<25
Iron	300	17	anr					
Lead	5.0	1	-0.70	<5.0	-1.7	<5.0	-0.50	<5.0
Magnesium	5000	35						
Manganese	15	.5	anr					
Molybdenum	50	.3						
Nickel	40	.4						
Potassium	10000	200						
Selenium	10	2.4	anr					
Silver	10	.7	anr					
Sodium	10000	500	anr					
Strontium	10	.5						
Thallium	10	1.1	anr					
Tin	50	.9						
Titanium	10	.5						
Vanadium	50	.5						
Zinc	20	3	0.20	<20	0.20	<20	0.20	<20

(*) Outside of QC limits
(anr) Analyte not requested

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: FA23258
Account: FPMRNYR - FPM Remediations
Project: HM-AZ PBR Holloman AFB; Alamogordo, NM

File ID: SA040315M1.ICP Date Analyzed: 04/03/15 Methods: SW846 6010C
QC Limits: 90 to 110 % Recovery Run ID: MA12317 Units: ug/l

Time:		07:34			08:02			08:55	
Sample ID:	ICV	ICV1		CCV	CCV1		CCV	CCV2	
Metal	True	Results	% Rec	True	Results	% Rec	True	Results	% Rec
Aluminum	anr								
Antimony	2000	2020	101.0	2000	2080	104.0	2000	2140	107.0
Arsenic	2000	2020	101.0	2000	2090	104.5	2000	2190	109.5
Barium	anr								
Beryllium									
Cadmium	anr								
Calcium									
Chromium	anr								
Cobalt									
Copper	2000	1990	99.5	2000	2010	100.5	2000	2060	103.0
Iron	anr								
Lead	2000	1990	99.5	2000	2000	100.0	2000	2070	103.5
Magnesium									
Manganese	anr								
Molybdenum									
Nickel									
Potassium									
Selenium	anr								
Silver	anr								
Sodium	anr								
Strontium									
Thallium	anr								
Tin									
Titanium									
Vanadium									
Zinc	2000	2020	101.0	2000	2060	103.0	2000	2160	108.0

(*) Outside of QC limits
(anr) Analyte not requested

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: FA23258
Account: FPMRNYR - FPM Remediations
Project: HM-AZ PBR Holloman AFB; Alamogordo, NM

File ID: SA040315M1.ICP Date Analyzed: 04/03/15 Methods: SW846 6010C
QC Limits: 90 to 110 % Recovery Run ID: MA12317 Units: ug/l

Time:		09:24			10:19			11:49	
Sample ID:	CCV	CCV3		CCV	CCV4		CCV	CCV5	
Metal	True	Results	% Rec	True	Results	% Rec	True	Results	% Rec
Aluminum	anr								
Antimony	2000	2020	101.0	2000	1980	99.0	2000	1960	98.0
Arsenic	2000	2020	101.0	2000	1960	98.0	2000	1960	98.0
Barium	anr								
Beryllium									
Cadmium	anr								
Calcium									
Chromium	anr								
Cobalt									
Copper	2000	2030	101.5	2000	1980	99.0	2000	2000	100.0
Iron	anr								
Lead	2000	1990	99.5	2000	1910	95.5	2000	1960	98.0
Magnesium									
Manganese	anr								
Molybdenum									
Nickel									
Potassium									
Selenium	anr								
Silver	anr								
Sodium	anr								
Strontium									
Thallium	anr								
Tin									
Titanium									
Vanadium									
Zinc	2000	2030	101.5	2000	1940	97.0	2000	1970	98.5

(*) Outside of QC limits
(anr) Analyte not requested

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: FA23258
Account: FPMRNYR - FPM Remediations
Project: HM-AZ PBR Holloman AFB; Alamogordo, NM

File ID: SA040315M1.ICP Date Analyzed: 04/03/15 Methods: SW846 6010C
QC Limits: 90 to 110 % Recovery Run ID: MA12317 Units: ug/l

Time:		12:44			13:40			14:07	
Sample ID:	CCV	CCV6		CCV	CCV7		CCV	CCV8	
Metal	True	Results	% Rec	True	Results	% Rec	True	Results	% Rec
Aluminum	anr								
Antimony	2000	1980	99.0	2000	2040	102.0	2000	2000	100.0
Arsenic	2000	1970	98.5	2000	2160	108.0	2000	1990	99.5
Barium	anr								
Beryllium									
Cadmium	anr								
Calcium									
Chromium	anr								
Cobalt									
Copper	2000	2000	100.0	2000	2050	102.5	2000	2020	101.0
Iron	anr								
Lead	2000	1930	96.5	2000	2190	109.5	2000	1990	99.5
Magnesium									
Manganese	anr								
Molybdenum									
Nickel									
Potassium									
Selenium	anr								
Silver	anr								
Sodium	anr								
Strontium									
Thallium	anr								
Tin									
Titanium									
Vanadium									
Zinc	2000	1960	98.0	2000	2190	109.5	2000	2020	101.0

(*) Outside of QC limits
(anr) Analyte not requested

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: FA23258
Account: FPMRNYR - FPM Remediations
Project: HM-AZ PBR Holloman AFB; Alamogordo, NM

File ID: SA040315M1.ICP Date Analyzed: 04/03/15 Methods: SW846 6010C
QC Limits: 90 to 110 % Recovery Run ID: MA12317 Units: ug/l

Time:		16:07			17:03			17:58	
Sample ID:	CCV	CCV9		CCV	CCV10		CCV	CCV11	
Metal	True	Results	% Rec	True	Results	% Rec	True	Results	% Rec
Aluminum	anr								
Antimony	2000	2030	101.5	2000	2070	103.5	2000	2070	103.5
Arsenic	2000	2040	102.0	2000	2130	106.5	2000	2150	107.5
Barium	anr								
Beryllium									
Cadmium	anr								
Calcium									
Chromium	anr								
Cobalt									
Copper	2000	2030	101.5	2000	2080	104.0	2000	2100	105.0
Iron	anr								
Lead	2000	1970	98.5	2000	2090	104.5	2000	2210	110.5*(a
Magnesium									
Manganese	anr								
Molybdenum									
Nickel									
Potassium									
Selenium	anr								
Silver	anr								
Sodium	anr								
Strontium									
Thallium	anr								
Tin									
Titanium									
Vanadium									
Zinc	2000	2020	101.0	2000	2170	108.5	2000	2250	112.5*(b

(*) Outside of QC limits
(anr) Analyte not requested
(a) No samples for Pb_ reported in the area bracketed by this QC.
(b) No samples for Zn_ reported in the area bracketed by this QC.

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: FA23258
Account: FPMRNYR - FPM Remediations
Project: HM-AZ PBR Holloman AFB; Alamogordo, NM

File ID: SA040315M1.ICP Date Analyzed: 04/03/15 Methods: SW846 6010C
QC Limits: 90 to 110 % Recovery Run ID: MA12317 Units: ug/l

Time:		18:52			19:46			20:35	
Sample ID:	CCV	CCV12		CCV	CCV13		CCV	CCV14	
Metal	True	Results	% Rec	True	Results	% Rec	True	Results	% Rec
Aluminum	anr								
Antimony	2000	2010	100.5	2000	2040	102.0	2000	1980	99.0
Arsenic	2000	2090	104.5	2000	2110	105.5	2000	2050	102.5
Barium	anr								
Beryllium									
Cadmium	anr								
Calcium									
Chromium	anr								
Cobalt									
Copper	2000	2090	104.5	2000	2130	106.5	2000	2090	104.5
Iron	anr								
Lead	2000	2230	111.5*(a	2000	2310	115.5*(a	2000	2260	113.0*(a
Magnesium									
Manganese	anr								
Molybdenum									
Nickel									
Potassium									
Selenium	anr								
Silver	anr								
Sodium	anr								
Strontium									
Thallium	anr								
Tin									
Titanium									
Vanadium									
Zinc	2000	2230	111.5*(b	2000	2280	114.0*(b	2000	2230	111.5*(b

(*) Outside of QC limits
(anr) Analyte not requested
(a) No samples for Pb_ reported in the area bracketed by this QC.
(b) No samples for Zn_ reported in the area bracketed by this QC.

HIGH STANDARD CHECK SUMMARY

Login Number: FA23258
Account: FPMRNYR - FPM Remediations
Project: HM-AZ PBR Holloman AFB; Alamogordo, NM

File ID: SA040315M1.ICP Date Analyzed: 04/03/15 Methods: SW846 6010C
QC Limits: 95 to 105 % Recovery Run ID: MA12317 Units: ug/l

Time:		07:30	
Sample ID:	HSTD	HSTD1	
Metal	True	Results	% Rec
Aluminum	anr		
Antimony	4000	4070	101.8
Arsenic	4000	4090	102.3
Barium	anr		
Beryllium			
Cadmium	anr		
Calcium			
Chromium	anr		
Cobalt			
Copper	4000	3960	99.0
Iron	anr		
Lead	4000	4060	101.5
Magnesium			
Manganese	anr		
Molybdenum			
Nickel			
Potassium			
Selenium	anr		
Silver	anr		
Sodium	anr		
Strontium			
Thallium	anr		
Tin			
Titanium			
Vanadium			
Zinc	4000	4020	100.5

(*) Outside of QC limits
(anr) Analyte not requested

LOW CALIBRATION CHECK STANDARDS SUMMARY

Login Number: FA23258
Account: FPMRNYR - FPM Remediations
Project: HM-AZ PBR Holloman AFB; Alamogordo, NM

File ID: SA040315M1.ICP Date Analyzed: 04/03/15 Methods: SW846 6010C
QC Limits: CRI 70-130% CRIA 70-130% Run ID: MA12317 Units: ug/l

Time:			07:43		07:47		20:22	
Sample ID:	CRI	CRIA	CRIA1		CRIA2		CRIA3	
Metal	True	True	Results	% Rec	Results	% Rec	Results	% Rec
Aluminum	400	200						
Antimony	10	5.0	4.3	86.0			4.7	94.0
Arsenic	20	10			10.4	104.0	11.5	115.0
Barium	400	200						
Beryllium	10	5.0						
Cadmium	10	5.0						
Calcium	2000	1000						
Chromium	20	10						
Cobalt	100	50						
Copper	50	25			26.5	106.0	26.7	106.8
Iron	600	300						
Lead	10	5.0			4.8	96.0	4.3	86.0
Magnesium	10000	5000						
Manganese	30	15						
Molybdenum	100	50						
Nickel	80	40						
Potassium	20000	10000						
Selenium	20	10						
Silver	20	10						
Sodium	20000	10000						
Strontium	20	10						
Thallium	20	10						
Tin	100	50						
Titanium	20	10						
Vanadium	100	50						
Zinc	40	20			21.9	109.5	23.3	116.5

(*) Outside of QC limits
(anr) Analyte not requested

INTERFERING ELEMENT CHECK STANDARDS SUMMARY
Part 1 - ICSA and ICSAB Standards

Login Number: FA23258
Account: FPMRNYR - FPM Remediations
Project: HM-AZ PBR Holloman AFB; Alamogordo, NM

File ID: SA040315M1.ICP Date Analyzed: 04/03/15 Methods: SW846 6010C
QC Limits: 80 to 120 % Recovery Run ID: MA12317 Units: ug/l

Time:			07:52		07:58		20:26		20:31	
Sample ID:	ICSA	ICSAB	ICSA1		ICSAB1		ICSA2		ICSAB2	
Metal	True	True	Results	% Rec	Results	% Rec	Results	% Rec	Results	% Rec
Aluminum	500000	500000	500000	100.0	491000	98.2	526000	105.2	512000	102.4
Antimony		1000	0.0		1100	110.0	2.2		1050	105.0
Arsenic		1000	0.50		1100	110.0	-0.60		1080	108.0
Barium		500	0.10		519	103.8	-0.60		542	108.4
Beryllium		500	-0.10		497	99.4	-0.20		518	103.6
Cadmium		1000	0.0		974	97.4	-1.0		967	96.7
Calcium	500000	500000	481000	96.2	473000	94.6	506000	101.2	496000	99.2
Chromium		500	0.90		506	101.2	-0.30		531	106.2
Cobalt		500	0.0		495	99.0	0.0		496	99.2
Copper		500	0.0		538	107.6	-3.9		549	109.8
Iron	200000	200000	188000	94.0	189000	94.5	190000	95.0	189000	94.5
Lead		1000	-0.80		971	97.1	14.5*(a)		1090	109.0
Magnesium	500000	500000	484000	96.8	475000	95.0	515000	103.0	504000	100.8
Manganese		500	-0.80		510	102.0	-1.6		527	105.4
Molybdenum		1000	-0.10		979	97.9	0.20		963	96.3
Nickel		1000	0.0		988	98.8	0.0		1030	103.0
Potassium			482		243		-400		-410	
Selenium		1000	0.0		1060	106.0	0.10		1080	108.0
Silver		1000	0.0		1030	103.0	2.6		1060	106.0
Sodium			371		309		73.2		66.9	
Strontium		1000	0.30		998	99.8	0.90		1080	108.0
Thallium		1000	0.0		979	97.9	-1.3		1040	104.0
Tin		1000	1.0		996	99.6	1.1		1040	104.0
Titanium		1000	0.10		1010	101.0	-0.40		1030	103.0
Vanadium		500	0.0		476	95.2	-0.60		522	104.4
Zinc		1000	2.3		994	99.4	1.4		1080	108.0

(*) Outside of QC limits
(anr) Analyte not requested
(a) Possible instrument baseline drift.

Accutest Laboratories Instrument Runlog
Inorganics Analyses

Login Number: FA23258
Account: FPMRNYR - FPM Remediations
Project: HM-AZ PBR Holloman AFB; Alamogordo, NM

File ID: SB040315M1.ICP Date Analyzed: 04/03/15 Methods: SW846 6010C
Analyst: LM Run ID: MA12318
Parameters: Sb,As,Cu,Pb,Zn

Time	Sample Description	Dilution Factor	PS Recov	Comments
07:16	MA12318-STD1	1		STDA
07:19	MA12318-STD2	1		STDB
07:22	MA12318-STD3	1		STDC
07:26	MA12318-STD4	1		STDD
07:30	MA12318-HSTD1	1		
07:33	MA12318-ICV1	1		
07:40	MA12318-ICB1	1		
07:47	MA12318-CRIA1	1		
07:51	MA12318-ICSA1	1		
07:55	MA12318-ICSAB1	1		
08:01	MA12318-CCV1	1		
08:07	MA12318-CCB1	1		
08:11	MP28744-MB1	1		
08:15	MP28744-B1	1		
08:19	FA22972-5	1		(sample used for QC only; not part of login FA23258)
08:23	MP28744-D1	1		
08:27	MP28744-SD1	5		
08:31	MP28744-PS1	1		
08:35	MP28744-S1	1		
08:39	MP28744-S2	1		
08:43	ZZZZZZ	1		
08:47	ZZZZZZ	1		
08:51	MA12318-CCV2	1		
08:55	MA12318-CCB2	1		
09:00	ZZZZZZ	1		
09:04	ZZZZZZ	1		
09:08	ZZZZZZ	1		
09:12	ZZZZZZ	1		
09:16	ZZZZZZ	1		
09:20	ZZZZZZ	1		
09:24	ZZZZZZ	1		
09:29	ZZZZZZ	1		
09:33	ZZZZZZ	1		

Accutest Laboratories Instrument Runlog
Inorganics Analyses

Login Number: FA23258
Account: FPMRNYR - FPM Remediations
Project: HM-AZ PBR Holloman AFB; Alamogordo, NM

File ID: SB040315M1.ICP Date Analyzed: 04/03/15 Methods: SW846 6010C
Analyst: LM Run ID: MA12318
Parameters: Sb,As,Cu,Pb,Zn

Time	Sample Description	Dilution Factor	PS Recov	Comments
09:37	ZZZZZZ	1		
09:41	MA12318-CCV3	1		
09:45	MA12318-CCB3	1		
09:49	ZZZZZZ	1		
09:53	ZZZZZZ	1		
09:58	ZZZZZZ	1		
10:02	ZZZZZZ	1		
10:06	MP28746-MB1	1		
10:10	MP28746-B1	1		
10:14	FA23223-1	1		(sample used for QC only; not part of login FA23258)
10:18	MP28746-D1	1		
10:22	MP28746-SD1	5		
10:27	MP28746-PS1	1		
10:31	MA12318-CCV4	1		
10:35	MA12318-CCB4	1		
10:39	MP28746-S1	1		
10:43	MP28746-S2	1		
10:47	ZZZZZZ	1		
10:51	ZZZZZZ	1		
10:55	ZZZZZZ	1		
10:59	ZZZZZZ	1		
11:03	ZZZZZZ	1		
11:07	ZZZZZZ	1		
11:12	ZZZZZZ	1		
11:16	ZZZZZZ	1		
11:20	MA12318-CCV5	1		
11:24	MA12318-CCB5	1		
11:28	ZZZZZZ	1		
11:32	ZZZZZZ	1		
11:36	ZZZZZZ	1		
11:41	ZZZZZZ	1		
11:45	ZZZZZZ	1		
11:49	ZZZZZZ	1		

Accutest Laboratories Instrument Runlog
Inorganics Analyses

Login Number: FA23258
Account: FPMRNYR - FPM Remediations
Project: HM-AZ PBR Holloman AFB; Alamogordo, NM

File ID: SB040315M1.ICP Date Analyzed: 04/03/15 Methods: SW846 6010C
Analyst: LM Run ID: MA12318
Parameters: Sb,As,Cu,Pb,Zn

Time	Sample Description	Dilution Factor	PS Recov	Comments
11:53	ZZZZZZ	1		
11:57	ZZZZZZ	1		
12:01	ZZZZZZ	1		
12:05	ZZZZZZ	1		
12:09	MA12318-CCV6	1		
12:13	MA12318-CCB6	1		
12:31	ZZZZZZ	1		
12:36	MP28753-MB1	1		
12:40	MP28753-B1	1		
12:44	FA23243-1	1		(sample used for QC only; not part of login FA23258)
12:48	MP28753-D1	1		
12:52	MP28753-SD1	1		
12:56	MP28753-PS1	1		
13:00	MP28753-S1	1		
13:04	MP28753-S2	1		
13:08	ZZZZZZ	1		
13:12	MA12318-CCV7	1		
13:16	MA12318-CCB7	1		
13:43	MA12318-CCV8	1		
13:50	MA12318-CCB8	1		
13:54	ZZZZZZ	1		
13:58	ZZZZZZ	1		
14:02	ZZZZZZ	1		
14:06	ZZZZZZ	1		
14:10	ZZZZZZ	1		
14:14	ZZZZZZ	1		
14:18	ZZZZZZ	1		
14:31	ZZZZZZ	1		
14:35	MA12318-CCV9	1		
14:39	MA12318-CCB9	1		
15:00	MA12318-CCV10	1		
15:08	MA12318-CCB10	1		
15:15	ZZZZZZ	1		

Accutest Laboratories Instrument Runlog
Inorganics Analyses

Login Number: FA23258
Account: FPMRNYR - FPM Remediations
Project: HM-AZ PBR Holloman AFB; Alamogordo, NM

File ID: SB040315M1.ICP Date Analyzed: 04/03/15 Methods: SW846 6010C
Analyst: LM Run ID: MA12318
Parameters: Sb,As,Cu,Pb,Zn

Time	Sample Description	Dilution Factor	PS Recov	Comments
15:19	ZZZZZZ	1		
15:23	ZZZZZZ	1		
15:27	ZZZZZZ	1		
15:31	ZZZZZZ	1		
15:40	ZZZZZZ	1		
15:44	ZZZZZZ	1		
15:48	MP28755-MB1	1		
15:52	MP28755-B1	1		
15:56	MA12318-CCV11	1		
16:00	MA12318-CCB11	1		
16:04	FA23275-8	1		(sample used for QC only; not part of login FA23258)
16:08	MP28755-D1	1		
16:12	MP28755-SD1	5		
16:16	MP28755-PS1	1		
16:20	MP28755-S1	1		
16:24	MP28755-S2	1		
16:28	ZZZZZZ	1		
16:33	ZZZZZZ	1		
16:37	ZZZZZZ	1		
16:41	ZZZZZZ	1		
16:45	MA12318-CCV12	1		
16:49	MA12318-CCB12	1		
16:53	ZZZZZZ	1		
16:57	ZZZZZZ	1		
17:01	FA23258-35	10		
17:06	FA23258-37	10		
17:10	FA23258-39	10		
17:14	FA23258-41	10		
----------> Last reportable sample/prep for job FA23258				
17:18	ZZZZZZ	1		
17:22	ZZZZZZ	1		
17:27	ZZZZZZ	1		
17:31	ZZZZZZ	1		
17:35	MA12318-CCV13	1		

Accutest Laboratories Instrument Runlog
Inorganics Analyses

Login Number: FA23258
Account: FPMRNYR - FPM Remediations
Project: HM-AZ PBR Holloman AFB; Alamogordo, NM

File ID: SB040315M1.ICP Date Analyzed: 04/03/15 Methods: SW846 6010C
Analyst: LM Run ID: MA12318
Parameters: Sb,As,Cu,Pb,Zn

Time	Sample Description	Dilution Factor	PS Recov	Comments
17:39	MA12318-CCB13	1		
17:43	ZZZZZZ	1		
17:47	ZZZZZZ	1		
17:51	ZZZZZZ	1		
17:56	ZZZZZZ	1		
18:00	ZZZZZZ	1		
18:05	MA12318-CRIA2	1		
18:09	MA12318-ICSA2	1		
18:13	MA12318-ICSAB2	1		
18:17	MA12318-CCV14	1		
18:21	MA12318-CCB14	1		

----------> Last reportable CCB for job FA23258
Refer to raw data for calibration curve and standards.

INTERNAL STANDARD SUMMARY

Login Number: FA23258
Account: FPMRNYR - FPM Remediations
Project: HM-AZ PBR Holloman AFB; Alamogordo, NM

File ID: SB040315M1.ICP Date Analyzed: 04/03/15 Methods: SW846 6010C
Analyst: LM Run ID: MA12318
Parameters: Sb,As,Cu,Pb,Zn

Time	Sample Description	Istd#1	Istd#2	Istd#3	Istd#4
07:16	MA12318-STD1	7537	45380	3428	3081
07:19	MA12318-STD2	7450	44223	3371	2854
07:22	MA12318-STD3	7166	42287	3303	2577
07:26	MA12318-STD4	6930	41300	3278	2401
07:30	MA12318-HSTD1	6903	40907	3306	2404
07:33	MA12318-ICV1	7152	42753	3322	2578
07:40	MA12318-ICB1	7445 R	44580 R	3319 R	3034 R
07:47	MA12318-CRIA1	7324	44539	3342	2898
07:51	MA12318-ICSA1	6472	37985	3160	2228
07:55	MA12318-ICSAB1	6429	38086	3163	2195
08:01	MA12318-CCV1	6958	42577	3233	2538
08:07	MA12318-CCB1	7269	44998	3311	3004
08:11	MP28744-MB1	7229	44995	3267	2970
08:15	MP28744-B1	6998	42808	3200	2648
08:19	FA22972-5	7122	44418	3244	2901
08:23	MP28744-D1	7143	44604	3339	2901
08:27	MP28744-SD1	7321	45011	3341	3007
08:31	MP28744-PS1	7075	43620	3256	2790
08:35	MP28744-S1	6927	43117	3264	2653
08:39	MP28744-S2	6921	43064	3286	2641
08:43	ZZZZZZ	6617	41148	3269	2488
08:47	ZZZZZZ	6806	41543	3273	2512
08:51	MA12318-CCV2	6940	42946	3288	2547
08:55	MA12318-CCB2	7249	45567	3347	3015
09:00	ZZZZZZ	6800	41389	3254	2514
09:04	ZZZZZZ	6708	41167	3257	2490
09:08	ZZZZZZ	7130	44975	3276	2972
09:12	ZZZZZZ	6634	41584	3282	2477
09:16	ZZZZZZ	6861	42953	3291	2615
09:20	ZZZZZZ	6761	42190	3295	2577
09:24	ZZZZZZ	7143	45416	3338	2994
09:29	ZZZZZZ	6850	43475	3331	2689
09:33	ZZZZZZ	7016	44741	3360	2829

INTERNAL STANDARD SUMMARY

Login Number: FA23258
Account: FPMRNYR - FPM Remediations
Project: HM-AZ PBR Holloman AFB; Alamogordo, NM

File ID: SB040315M1.ICP Date Analyzed: 04/03/15 Methods: SW846 6010C
Analyst: LM Run ID: MA12318
Parameters: Sb,As,Cu,Pb,Zn

Time	Sample Description	Istd#1	Istd#2	Istd#3	Istd#4
09:37	ZZZZZZ	6664	41553	3306	2503
09:41	MA12318-CCV3	6862	43093	3326	2529
09:45	MA12318-CCB3	7215	45310	3316	3001
09:49	ZZZZZZ	6864	43060	3315	2687
09:53	ZZZZZZ	7137	45420	3348	2998
09:58	ZZZZZZ	7051	44487	3317	2834
10:02	ZZZZZZ	7148	45008	3318	2995
10:06	MP28746-MB1	7199	45174	3263	2981
10:10	MP28746-B1	6935	43274	3265	2640
10:14	FA23223-1	7203	45422	3313	3002
10:18	MP28746-D1	7184	45549	3315	2998
10:22	MP28746-SD1	7238	45294	3306	3017
10:27	MP28746-PS1	7079	44259	3279	2836
10:31	MA12318-CCV4	6877	42649	3244	2527
10:35	MA12318-CCB4	7197	45002	3288	2989
10:39	MP28746-S1	6990	43021	3257	2634
10:43	MP28746-S2	6979	43264	3226	2635
10:47	ZZZZZZ	6372	39376	3189	2366
10:51	ZZZZZZ	6979	43162	3278	2698
10:55	ZZZZZZ	6895	42880	3267	2716
10:59	ZZZZZZ	6622	41273	3243	2531
11:03	ZZZZZZ	6771	41852	3230	2617
11:07	ZZZZZZ	6753	41005	3242	2461
11:12	ZZZZZZ	6844	42529	3232	2668
11:16	ZZZZZZ	6706	41032	3193	2453
11:20	MA12318-CCV5	6898	42367	3228	2516
11:24	MA12318-CCB5	7243	44617	3284	2989
11:28	ZZZZZZ	6784	41679	3209	2517
11:32	ZZZZZZ	7074	43329	3287	2728
11:36	ZZZZZZ	6483	39298	3173	2336
11:41	ZZZZZZ	6480	39238	3188	2335
11:45	ZZZZZZ	6607	40372	3207	2404
11:49	ZZZZZZ	6589	40428	3174	2403

INTERNAL STANDARD SUMMARY

Login Number: FA23258
Account: FPMRNYR - FPM Remediations
Project: HM-AZ PBR Holloman AFB; Alamogordo, NM

File ID: SB040315M1.ICP Date Analyzed: 04/03/15 Methods: SW846 6010C
Analyst: LM Run ID: MA12318
Parameters: Sb,As,Cu,Pb,Zn

Time	Sample Description	Istd#1	Istd#2	Istd#3	Istd#4
11:53	ZZZZZZ	6328	39303	3116	2350
11:57	ZZZZZZ	6929	42907	3195	2697
12:01	ZZZZZZ	6843	42656	3197	2691
12:05	ZZZZZZ	6613	40760	3125	2501
12:09	MA12318-CCV6	6883	41578	3147	2501
12:13	MA12318-CCB6	7187	44363	3195	2960
12:31	ZZZZZZ	6724	40899	3064	2570
12:36	MP28753-MB1	7202	43815	3182	2955
12:40	MP28753-B1	6986	41752	3130	2602
12:44	FA23243-1	8925	52690	3947	2622
12:48	MP28753-D1	8856	52470	3981	2623
12:52	MP28753-SD1	7686	45103	3339	2832
12:56	MP28753-PS1	8900	52082	3913	2583
13:00	MP28753-S1	8606	49798	3804	2482
13:04	MP28753-S2	8725	50222	3717	2485
13:08	ZZZZZZ	9317 !	53876	4052	2615
13:12	MA12318-CCV7	6910	40257	3051	2473
13:16	MA12318-CCB7	7255	42201	3035	2932
13:43	MA12318-CCV8	6865	41251	3076	2485
13:50	MA12318-CCB8	7183	44019	3146	2959
13:54	ZZZZZZ	7575	46318	3422	2628
13:58	ZZZZZZ	7665	46431	3640	2284
14:02	ZZZZZZ	7581	46782	3410	2719
14:06	ZZZZZZ	7595	47129	3405	2836
14:10	ZZZZZZ	7407	46023	3332	2897
14:14	ZZZZZZ	7501	47015	3405	2792
14:18	ZZZZZZ	8343	51955	3812	2787
14:31	ZZZZZZ	6394	39644	3387	1806 !
14:35	MA12318-CCV9	6833	42371	3138	2506
14:39	MA12318-CCB9	7165	44709	3183	2974
15:00	MA12318-CCV10	6823	42136	3126	2498
15:08	MA12318-CCB10	7174	44480	3152	2973
15:15	ZZZZZZ	7061	43603	3299	2334

INTERNAL STANDARD SUMMARY

Login Number: FA23258
Account: FPMRNYR - FPM Remediations
Project: HM-AZ PBR Holloman AFB; Alamogordo, NM

File ID: SB040315M1.ICP Date Analyzed: 04/03/15 Methods: SW846 6010C
Analyst: LM Run ID: MA12318
Parameters: Sb,As,Cu,Pb,Zn

Time	Sample Description	Istd#1	Istd#2	Istd#3	Istd#4
15:19	ZZZZZZ	7693	47743	3393	2790
15:23	ZZZZZZ	7351	45675	3208	2888
15:27	ZZZZZZ	8712	52989	3881	2657
15:31	ZZZZZZ	8741	53486	4390 !	1828
15:40	ZZZZZZ	7068	43630	3102	2666
15:44	ZZZZZZ	7065	44096	3097	2710
15:48	MP28755-MB1	7120	44331	3076	2952
15:52	MP28755-B1	6905	42382	3021	2603
15:56	MA12318-CCV11	6822	41356	3000	2477
16:00	MA12318-CCB11	7152	43856	3017	2927
16:04	FA23275-8	7878	46008	3355	2616
16:08	MP28755-D1	7790	45810	3384	2619
16:12	MP28755-SD1	7454	44351	3147	2798
16:16	MP28755-PS1	7813	45347	3352	2574
16:20	MP28755-S1	7567	43832	3261	2482
16:24	MP28755-S2	7671	44233	3278	2497
16:28	ZZZZZZ	7394	45136	3185	2776
16:33	ZZZZZZ	7286	44275	3167	2629
16:37	ZZZZZZ	7340	44509	3188	2663
16:41	ZZZZZZ	6753	40909	3132	2172
16:45	MA12318-CCV12	6854	41400	2957	2481
16:49	MA12318-CCB12	7166	43655	3016	2943
16:53	ZZZZZZ	7295	43562	3214	2430
16:57	ZZZZZZ	7461	44002	3190	2478
17:01	FA23258-35	6491	38879	2897	2386
17:06	FA23258-37	6594	40335	2991	2400
17:10	FA23258-39	6567	40071	3005	2398
17:14	FA23258-41	6679	40413	2987	2440
17:18	ZZZZZZ	6638	40586	2991	2462
17:22	ZZZZZZ	7347	45262	3173	2774
17:27	ZZZZZZ	6929	42263	3000	2680
17:31	ZZZZZZ	7003	42734	3023	2683
17:35	MA12318-CCV13	6864	41066	2949	2479

INTERNAL STANDARD SUMMARY

Login Number: FA23258
Account: FPMRNYR - FPM Remediations
Project: HM-AZ PBR Holloman AFB; Alamogordo, NM

File ID: SB040315M1.ICP Date Analyzed: 04/03/15 Methods: SW846 6010C
Analyst: LM Run ID: MA12318
Parameters: Sb,As,Cu,Pb,Zn

Time	Sample Description	Istd#1	Istd#2	Istd#3	Istd#4
17:39	MA12318-CCB13	7180	43298	2965	2937
17:43	ZZZZZZ	10040 !	60405 !	4313 !	2550
17:47	ZZZZZZ	8550	51111	3964	2056
17:51	ZZZZZZ	8626	51671	3911	2139
17:56	ZZZZZZ	5541	33240	2750	1691 !
18:00	ZZZZZZ	7329	43389	3289	2111
18:05	MA12318-CRIA2	7091	42028	2864	2790
18:09	MA12318-ICSA2	6313	36238	2714	2152
18:13	MA12318-ICSAB2	6310	36140	2694	2125
18:17	MA12318-CCV14	6861	40060	2796	2459
18:21	MA12318-CCB14	7198	42888	2881	2924

R = Reference for ISTD limits. ! = Outside limits.

LEGEND:

Istd#	Parameter	Limits
Istd#1	Yttrium (2243)	60-125 %
Istd#2	Yttrium (3600)	60-125 %
Istd#3	Yttrium (3710)	60-125 %
Istd#4	Indium	60-125 %

BLANK RESULTS SUMMARY
Part 1 - Initial and Continuing Calibration Blanks

Login Number: FA23258
Account: FPMRNYR - FPM Remediations
Project: HM-AZ PBR Holloman AFB; Alamogordo, NM

File ID: SB040315M1.ICP Date Analyzed: 04/03/15 Methods: SW846 6010C
QC Limits: result < RL Run ID: MA12318 Units: ug/l

Time:			07:40		08:07		08:55		09:45	
Sample ID:			ICB1		CCB1		CCB2		CCB3	
Metal	RL	IDL	raw	final	raw	final	raw	final	raw	final
Aluminum	200	14	anr							
Antimony	6.0	1	0.80	<6.0	-1.3	<6.0	-1.5	<6.0	-2.0	<6.0
Arsenic	10	1.3	0.10	<10	-0.60	<10	-0.20	<10	0.10	<10
Barium	200	1	anr							
Beryllium	4.0	.2	anr							
Cadmium	5.0	.2	anr							
Calcium	1000	50	anr							
Chromium	10	1	anr							
Cobalt	50	.2	anr							
Copper	25	1	0.30	<25	0.10	<25	0.10	<25	0.80	<25
Iron	300	17	anr							
Lead	5.0	1	-0.70	<5.0	-0.10	<5.0	-0.30	<5.0	0.10	<5.0
Magnesium	5000	35	anr							
Manganese	15	.5	anr							
Molybdenum	50	.3								
Nickel	40	.4	anr							
Potassium	10000	200	anr							
Selenium	10	2.4	anr							
Silver	10	.7	anr							
Sodium	10000	500	anr							
Strontium	10	.5								
Thallium	10	1.1	anr							
Tin	50	.9								
Titanium	10	.5								
Vanadium	50	.5	anr							
Zinc	20	3	0.0	<20	0.10	<20	0.20	<20	0.20	<20

(*) Outside of QC limits
(anr) Analyte not requested

BLANK RESULTS SUMMARY
Part 1 - Initial and Continuing Calibration Blanks

Login Number: FA23258
Account: FPMRNYR - FPM Remediations
Project: HM-AZ PBR Holloman AFB; Alamogordo, NM

File ID: SB040315M1.ICP Date Analyzed: 04/03/15 Methods: SW846 6010C
QC Limits: result < RL Run ID: MA12318 Units: ug/l

Time:			10:35		11:24		12:13		13:16	
Sample ID:			CCB4		CCB5		CCB6		CCB7	
Metal	RL	IDL	raw	final	raw	final	raw	final	raw	final
Aluminum	200	14	anr							
Antimony	6.0	1	-1.7	<6.0	-2.1	<6.0	-2.3	<6.0	-1.7	<6.0
Arsenic	10	1.3	-0.10	<10	-0.20	<10	-1.0	<10	0.0	<10
Barium	200	1	anr							
Beryllium	4.0	.2	anr							
Cadmium	5.0	.2	anr							
Calcium	1000	50	anr							
Chromium	10	1	anr							
Cobalt	50	.2	anr							
Copper	25	1	0.30	<25	0.20	<25	0.30	<25	0.30	<25
Iron	300	17	anr							
Lead	5.0	1	0.10	<5.0	0.20	<5.0	0.20	<5.0	0.10	<5.0
Magnesium	5000	35	anr							
Manganese	15	.5	anr							
Molybdenum	50	.3								
Nickel	40	.4	anr							
Potassium	10000	200	anr							
Selenium	10	2.4	anr							
Silver	10	.7	anr							
Sodium	10000	500	anr							
Strontium	10	.5								
Thallium	10	1.1	anr							
Tin	50	.9								
Titanium	10	.5								
Vanadium	50	.5	anr							
Zinc	20	3	0.10	<20	0.10	<20	0.0	<20	0.40	<20

(*) Outside of QC limits
(anr) Analyte not requested

BLANK RESULTS SUMMARY
Part 1 - Initial and Continuing Calibration Blanks

Login Number: FA23258
Account: FPMRNYR - FPM Remediations
Project: HM-AZ PBR Holloman AFB; Alamogordo, NM

File ID: SB040315M1.ICP Date Analyzed: 04/03/15 Methods: SW846 6010C
QC Limits: result < RL Run ID: MA12318 Units: ug/l

Time:			13:50		14:39		15:08		16:00	
Sample ID:			CCB8		CCB9		CCB10		CCB11	
Metal	RL	IDL	raw	final	raw	final	raw	final	raw	final
Aluminum	200	14	anr							
Antimony	6.0	1	2.4	<6.0	1.3	<6.0	2.4	<6.0	1.1	<6.0
Arsenic	10	1.3	0.50	<10	-0.20	<10	0.70	<10	0.90	<10
Barium	200	1	anr							
Beryllium	4.0	.2	anr							
Cadmium	5.0	.2	anr							
Calcium	1000	50	anr							
Chromium	10	1	anr							
Cobalt	50	.2	anr							
Copper	25	1	0.30	<25	0.0	<25	0.20	<25	-0.10	<25
Iron	300	17	anr							
Lead	5.0	1	0.80	<5.0	0.60	<5.0	0.30	<5.0	0.20	<5.0
Magnesium	5000	35	anr							
Manganese	15	.5	anr							
Molybdenum	50	.3								
Nickel	40	.4	anr							
Potassium	10000	200	anr							
Selenium	10	2.4	anr							
Silver	10	.7	anr							
Sodium	10000	500	anr							
Strontium	10	.5								
Thallium	10	1.1	anr							
Tin	50	.9								
Titanium	10	.5								
Vanadium	50	.5	anr							
Zinc	20	3	0.20	<20	0.10	<20	0.30	<20	0.20	<20

(*) Outside of QC limits
(anr) Analyte not requested

BLANK RESULTS SUMMARY
Part 1 - Initial and Continuing Calibration Blanks

Login Number: FA23258
Account: FPMRNYR - FPM Remediations
Project: HM-AZ PBR Holloman AFB; Alamogordo, NM

File ID: SB040315M1.ICP Date Analyzed: 04/03/15 Methods: SW846 6010C
QC Limits: result < RL Run ID: MA12318 Units: ug/l

Time:			16:49		17:39		18:21	
Sample ID:			CCB12		CCB13		CCB14	
Metal	RL	IDL	raw	final	raw	final	raw	final
Aluminum	200	14	anr					
Antimony	6.0	1	0.20	<6.0	0.20	<6.0	-0.10	<6.0
Arsenic	10	1.3	0.40	<10	0.60	<10	0.20	<10
Barium	200	1	anr					
Beryllium	4.0	.2	anr					
Cadmium	5.0	.2	anr					
Calcium	1000	50	anr					
Chromium	10	1	anr					
Cobalt	50	.2	anr					
Copper	25	1	-0.20	<25	-0.10	<25	-0.50	<25
Iron	300	17	anr					
Lead	5.0	1	0.20	<5.0	0.50	<5.0	0.50	<5.0
Magnesium	5000	35	anr					
Manganese	15	.5	anr					
Molybdenum	50	.3						
Nickel	40	.4	anr					
Potassium	10000	200	anr					
Selenium	10	2.4	anr					
Silver	10	.7	anr					
Sodium	10000	500	anr					
Strontium	10	.5						
Thallium	10	1.1	anr					
Tin	50	.9						
Titanium	10	.5						
Vanadium	50	.5	anr					
Zinc	20	3	0.10	<20	0.10	<20	0.10	<20

(*) Outside of QC limits
(anr) Analyte not requested

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: FA23258
Account: FPMRNYR - FPM Remediations
Project: HM-AZ PBR Holloman AFB; Alamogordo, NM

File ID: SB040315M1.ICP Date Analyzed: 04/03/15 Methods: SW846 6010C
QC Limits: 90 to 110 % Recovery Run ID: MA12318 Units: ug/l

Time:		07:33			08:01			08:51	
Sample ID:	ICV	ICV1		CCV	CCV1		CCV	CCV2	
Metal	True	Results	% Rec	True	Results	% Rec	True	Results	% Rec
Aluminum	anr								
Antimony	2000	2010	100.5	2000	2070	103.5	2000	2100	105.0
Arsenic	2000	2010	100.5	2000	2080	104.0	2000	2090	104.5
Barium	anr								
Beryllium	anr								
Cadmium	anr								
Calcium	anr								
Chromium	anr								
Cobalt	anr								
Copper	2000	2010	100.5	2000	2010	100.5	2000	2020	101.0
Iron	anr								
Lead	2000	1990	99.5	2000	2000	100.0	2000	1990	99.5
Magnesium	anr								
Manganese	anr								
Molybdenum									
Nickel	anr								
Potassium	anr								
Selenium	anr								
Silver	anr								
Sodium	anr								
Strontium									
Thallium	anr								
Tin									
Titanium									
Vanadium	anr								
Zinc	2000	2030	101.5	2000	2070	103.5	2000	2070	103.5

(*) Outside of QC limits
(anr) Analyte not requested

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: FA23258
Account: FPMRNYR - FPM Remediations
Project: HM-AZ PBR Holloman AFB; Alamogordo, NM

File ID: SB040315M1.ICP Date Analyzed: 04/03/15 Methods: SW846 6010C
QC Limits: 90 to 110 % Recovery Run ID: MA12318 Units: ug/l

Time:		09:41			10:31			11:20	
Sample ID:	CCV	CCV3		CCV	CCV4		CCV	CCV5	
Metal	True	Results	% Rec	True	Results	% Rec	True	Results	% Rec
Aluminum	anr								
Antimony	2000	2120	106.0	2000	2120	106.0	2000	2120	106.0
Arsenic	2000	2130	106.5	2000	2130	106.5	2000	2120	106.0
Barium	anr								
Beryllium	anr								
Cadmium	anr								
Calcium	anr								
Chromium	anr								
Cobalt	anr								
Copper	2000	2010	100.5	2000	2040	102.0	2000	2050	102.5
Iron	anr								
Lead	2000	2010	100.5	2000	2020	101.0	2000	2040	102.0
Magnesium	anr								
Manganese	anr								
Molybdenum									
Nickel	anr								
Potassium	anr								
Selenium	anr								
Silver	anr								
Sodium	anr								
Strontium									
Thallium	anr								
Tin									
Titanium									
Vanadium	anr								
Zinc	2000	2090	104.5	2000	2100	105.0	2000	2110	105.5

(*) Outside of QC limits
(anr) Analyte not requested

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: FA23258
Account: FPMRNYR - FPM Remediations
Project: HM-AZ PBR Holloman AFB; Alamogordo, NM

File ID: SB040315M1.ICP Date Analyzed: 04/03/15 Methods: SW846 6010C
QC Limits: 90 to 110 % Recovery Run ID: MA12318 Units: ug/l

Time:		12:09			13:12			13:43	
Sample ID:	CCV	CCV6		CCV	CCV7		CCV	CCV8	
Metal	True	Results	% Rec	True	Results	% Rec	True	Results	% Rec
Aluminum	anr								
Antimony	2000	2110	105.5	2000	2070	103.5	2000	2020	101.0
Arsenic	2000	2100	105.0	2000	2040	102.0	2000	2040	102.0
Barium	anr								
Beryllium	anr								
Cadmium	anr								
Calcium	anr								
Chromium	anr								
Cobalt	anr								
Copper	2000	2080	104.0	2000	2140	107.0	2000	1990	99.5
Iron	anr								
Lead	2000	2040	102.0	2000	2070	103.5	2000	2000	100.0
Magnesium	anr								
Manganese	anr								
Molybdenum									
Nickel	anr								
Potassium	anr								
Selenium	anr								
Silver	anr								
Sodium	anr								
Strontium									
Thallium	anr								
Tin									
Titanium									
Vanadium	anr								
Zinc	2000	2110	105.5	2000	2100	105.0	2000	2020	101.0

(*) Outside of QC limits
(anr) Analyte not requested

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: FA23258
Account: FPMRNYR - FPM Remediations
Project: HM-AZ PBR Holloman AFB; Alamogordo, NM

File ID: SB040315M1.ICP Date Analyzed: 04/03/15 Methods: SW846 6010C
QC Limits: 90 to 110 % Recovery Run ID: MA12318 Units: ug/l

Time:		14:35			15:00			15:56	
Sample ID:	CCV	CCV9		CCV	CCV10		CCV	CCV11	
Metal	True	Results	% Rec	True	Results	% Rec	True	Results	% Rec
Aluminum	anr								
Antimony	2000	2060	103.0	2000	2020	101.0	2000	1990	99.5
Arsenic	2000	2090	104.5	2000	2020	101.0	2000	1990	99.5
Barium	anr								
Beryllium	anr								
Cadmium	anr								
Calcium	anr								
Chromium	anr								
Cobalt	anr								
Copper	2000	1950	97.5	2000	2010	100.5	2000	2040	102.0
Iron	anr								
Lead	2000	1990	99.5	2000	2000	100.0	2000	2000	100.0
Magnesium	anr								
Manganese	anr								
Molybdenum									
Nickel	anr								
Potassium	anr								
Selenium	anr								
Silver	anr								
Sodium	anr								
Strontium									
Thallium	anr								
Tin									
Titanium									
Vanadium	anr								
Zinc	2000	2040	102.0	2000	2040	102.0	2000	2020	101.0

(*) Outside of QC limits
(anr) Analyte not requested

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: FA23258
Account: FPMRNYR - FPM Remediations
Project: HM-AZ PBR Holloman AFB; Alamogordo, NM

File ID: SB040315M1.ICP Date Analyzed: 04/03/15 Methods: SW846 6010C
QC Limits: 90 to 110 % Recovery Run ID: MA12318 Units: ug/l

Time:		16:45			17:35			18:17	
Sample ID:	CCV	CCV12		CCV	CCV13		CCV	CCV14	
Metal	True	Results	% Rec	True	Results	% Rec	True	Results	% Rec
Aluminum	anr								
Antimony	2000	1990	99.5	2000	1990	99.5	2000	1960	98.0
Arsenic	2000	1990	99.5	2000	1990	99.5	2000	1960	98.0
Barium	anr								
Beryllium	anr								
Cadmium	anr								
Calcium	anr								
Chromium	anr								
Cobalt	anr								
Copper	2000	2050	102.5	2000	2050	102.5	2000	2080	104.0
Iron	anr								
Lead	2000	2010	100.5	2000	2020	101.0	2000	2030	101.5
Magnesium	anr								
Manganese	anr								
Molybdenum									
Nickel	anr								
Potassium	anr								
Selenium	anr								
Silver	anr								
Sodium	anr								
Strontium									
Thallium	anr								
Tin									
Titanium									
Vanadium	anr								
Zinc	2000	2020	101.0	2000	2020	101.0	2000	2020	101.0

(*) Outside of QC limits
(anr) Analyte not requested

HIGH STANDARD CHECK SUMMARY

Login Number: FA23258
Account: FPMRNYR - FPM Remediations
Project: HM-AZ PBR Holloman AFB; Alamogordo, NM

File ID: SB040315M1.ICP Date Analyzed: 04/03/15 Methods: SW846 6010C
QC Limits: 95 to 105 % Recovery Run ID: MA12318 Units: ug/l

Time:		07:30	
Sample ID:	HSTD	HSTD1	
Metal	True	Results	% Rec
Aluminum	anr		
Antimony	4000	4030	100.8
Arsenic	4000	4040	101.0
Barium	anr		
Beryllium	anr		
Cadmium	anr		
Calcium	anr		
Chromium	anr		
Cobalt	anr		
Copper	4000	4060	101.5
Iron	anr		
Lead	4000	4030	100.8
Magnesium	anr		
Manganese	anr		
Molybdenum			
Nickel	anr		
Potassium	anr		
Selenium	anr		
Silver	anr		
Sodium	anr		
Strontium			
Thallium	anr		
Tin			
Titanium			
Vanadium	anr		
Zinc	4000	3990	99.8

(*) Outside of QC limits
(anr) Analyte not requested

LOW CALIBRATION CHECK STANDARDS SUMMARY

Login Number: FA23258
Account: FPMRNYR - FPM Remediations
Project: HM-AZ PBR Holloman AFB; Alamogordo, NM

File ID: SB040315M1.ICP Date Analyzed: 04/03/15 Methods: SW846 6010C
QC Limits: CRI 70-130% CRIA 70-130% Run ID: MA12318 Units: ug/l

Time:			07:47		18:05	
Sample ID:	CRI	CRIA	CRIA1		CRIA2	
Metal	True	True	Results	% Rec	Results	% Rec
Aluminum	400	200	anr			
Antimony	10	5.0	4.1	82.0	4.2	84.0
Arsenic	20	10	9.9	99.0	10.1	101.0
Barium	400	200	anr			
Beryllium	10	5.0	anr			
Cadmium	10	5.0	anr			
Calcium	2000	1000	anr			
Chromium	20	10	anr			
Cobalt	100	50	anr			
Copper	50	25	26.4	105.6	26.7	106.8
Iron	600	300	anr			
Lead	10	5.0	4.8	96.0	4.9	98.0
Magnesium	10000	5000	anr			
Manganese	30	15	anr			
Molybdenum	100	50				
Nickel	80	40	anr			
Potassium	20000	10000	anr			
Selenium	20	10	anr			
Silver	20	10	anr			
Sodium	20000	10000	anr			
Strontium	20	10				
Thallium	20	10	anr			
Tin	100	50				
Titanium	20	10				
Vanadium	100	50	anr			
Zinc	40	20	22.1	110.5	21.7	108.5

(*) Outside of QC limits
(anr) Analyte not requested

INTERFERING ELEMENT CHECK STANDARDS SUMMARY
Part 1 - ICSA and ICSAB Standards

Login Number: FA23258
Account: FPMRNYR - FPM Remediations
Project: HM-AZ PBR Holloman AFB; Alamogordo, NM

File ID: SB040315M1.ICP Date Analyzed: 04/03/15 Methods: SW846 6010C
QC Limits: 80 to 120 % Recovery Run ID: MA12318 Units: ug/l

Time:			07:51		07:55		18:09		18:13	
Sample ID:	ICSA	ICSAB	ICSA1		ICSAB1		ICSA2		ICSAB2	
Metal	True	True	Results	% Rec	Results	% Rec	Results	% Rec	Results	% Rec
Aluminum	500000	500000	506000	101.2	501000	100.2	525000	105.0	524000	104.8
Antimony		1000	-0.80		1080	108.0	-2.8		1040	104.0
Arsenic		1000	-1.8		1070	107.0	0.20		1020	102.0
Barium		500	0.60		517	103.4	0.70		529	105.8
Beryllium		500	0.20		516	103.2	0.0		515	103.0
Cadmium		1000	0.60		938	93.8	-0.10		923	92.3
Calcium	500000	500000	484000	96.8	477000	95.4	495000	99.0	496000	99.2
Chromium		500	0.70		486	97.2	0.90		520	104.0
Cobalt		500	-0.20		481	96.2	-0.40		474	94.8
Copper		500	0.20		539	107.8	-0.90		556	111.2
Iron	200000	200000	186000	93.0	188000	94.0	187000	93.5	191000	95.5
Lead		1000	0.10		966	96.6	-7.0		970	97.0
Magnesium	500000	500000	496000	99.2	491000	98.2	486000	97.2	485000	97.0
Manganese		500	0.0		498	99.6	-0.10		522	104.4
Molybdenum		1000	-0.70		961	96.1	0.10		944	94.4
Nickel		1000	0.20		971	97.1	0.60		936	93.6
Potassium			-5.5		3.2		148		117	
Selenium		1000	-0.40		1040	104.0	4.5		996	99.6
Silver		1000	0.20		965	96.5	0.10		1000	100.0
Sodium			191		188		170		165	
Strontium		1000	0.10		1020	102.0	0.20		1060	106.0
Thallium		1000	0.60		963	96.3	0.20		974	97.4
Tin		1000	0.70		984	98.4	0.70		917	91.7
Titanium		1000	0.70		1010	101.0	1.1		1070	107.0
Vanadium		500	-0.10		485	97.0	0.10		486	97.2
Zinc		1000	-1.7		968	96.8	-2.4		949	94.9

(*) Outside of QC limits
(anr) Analyte not requested

Accutest Laboratories Instrument Runlog
Inorganics Analyses

Login Number: FA23258
Account: FPMRNYR - FPM Remediations
Project: HM-AZ PBR Holloman AFB; Alamogordo, NM

File ID: SB040615M1.ICP Date Analyzed: 04/06/15 Methods: SW846 6010C
Analyst: LM Run ID: MA12320
Parameters: Sb,As,Cu,Pb,Zn

Time	Sample Description	Dilution Factor	PS Recov	Comments
09:31	MA12320-STD1	1		STDA
09:36	MA12320-STD2	1		STDB
09:39	MA12320-STD3	1		STDC
09:42	MA12320-STD4	1		STDD
09:45	MA12320-HSTD1	1		
09:51	MA12320-ICV1	1		
09:57	MA12320-ICB1	1		
10:01	MA12320-CRIA1	1		
10:08	MA12320-ICSA1	1		
10:13	MA12320-ICSAB1	1		
10:21	MA12320-CCV1	1		
10:31	MA12320-CCB1	1		
10:41	FA23258-5	10		
10:45	MP28752-D1	10		
10:49	MP28752-S1	10		
10:54	MP28752-S2	10		
10:58	MP28752-PS1	10		
11:02	MP28752-SD1	50		
11:06	FA23258-22	10		
11:11	FA23258-23	10		
11:15	FA23258-25	10		
11:19	MA12320-CCV2	1		
11:23	MA12320-CCB2	1		
11:27	FA23258-27	10		
11:32	FA23258-29	10		
11:36	FA23258-31	10		
11:40	FA23258-33	10		
---------->	Last reportable sample/prep for job FA23258			
11:44	ZZZZZZ	10		
11:49	ZZZZZZ	10		
11:53	FA23243-19	5		(sample used for QC only; not part of login FA23258)
11:57	MP28754-D1	5		
12:01	MP28754-S1	5		
12:05	MP28754-S2	5		

Accutest Laboratories Instrument Runlog
Inorganics Analyses

Login Number: FA23258
Account: FPMRNYR - FPM Remediations
Project: HM-AZ PBR Holloman AFB; Alamogordo, NM

File ID: SB040615M1.ICP Date Analyzed: 04/06/15 Methods: SW846 6010C
Analyst: LM Run ID: MA12320
Parameters: Sb,As,Cu,Pb,Zn

Time	Sample Description	Dilution Factor	PS Recov	Comments
12:09	MA12320-CCV3	1		
12:13	MA12320-CCB3	1		
12:17	MP28754-PS1	5		
12:21	MP28754-SD1	25		
12:25	ZZZZZZ	5		
12:29	ZZZZZZ	5		
12:33	ZZZZZZ	5		
12:37	ZZZZZZ	5		
12:41	ZZZZZZ	5		
12:45	ZZZZZZ	5		
12:49	ZZZZZZ	5		
12:53	ZZZZZZ	5		
12:58	MA12320-CCV4	1		
13:02	MA12320-CCB4	1		
13:06	ZZZZZZ	5		
13:10	ZZZZZZ	5		
13:14	ZZZZZZ	5		
13:18	ZZZZZZ	5		
13:22	ZZZZZZ	5		
13:26	ZZZZZZ	10		
13:30	MP28760-MB1	1		
13:35	MP28760-B1	1		
13:39	FA23132-1	1		(sample used for QC only; not part of login FA23258)
13:43	MP28760-D1	1		
13:47	MA12320-CCV5	1		
13:51	MA12320-CCB5	1		
14:25	MA12320-CCV6	1		
14:31	MA12320-CCB6	1		
14:35	MP28760-SD1	5		
14:40	MP28760-PS1	1		
14:44	MP28760-S1	1		
14:48	MP28760-S2	1		
14:52	ZZZZZZ	1		

Accutest Laboratories Instrument Runlog
Inorganics Analyses

Login Number: FA23258
Account: FPMRNYR - FPM Remediations
Project: HM-AZ PBR Holloman AFB; Alamogordo, NM

File ID: SB040615M1.ICP Date Analyzed: 04/06/15 Methods: SW846 6010C
Analyst: LM Run ID: MA12320
Parameters: Sb,As,Cu,Pb,Zn

Time	Sample Description	Dilution Factor	PS Recov	Comments
14:56	ZZZZZZ	1		
15:00	ZZZZZZ	1		
15:04	ZZZZZZ	1		
15:09	ZZZZZZ	1		
15:13	ZZZZZZ	1		
15:17	MA12320-CCV7	1		
15:21	MA12320-CCB7	1		
15:25	ZZZZZZ	1		
15:30	ZZZZZZ	1		
15:34	ZZZZZZ	1		
15:38	ZZZZZZ	1		
15:42	ZZZZZZ	1		
15:46	ZZZZZZ	1		
15:50	ZZZZZZ	1		
15:55	ZZZZZZ	1		
15:59	ZZZZZZ	1		
16:03	ZZZZZZ	1		
16:07	MA12320-CCV8	1		
16:11	MA12320-CCB8	1		
16:15	ZZZZZZ	1		
16:20	ZZZZZZ	1		
16:24	ZZZZZZ	1		
16:28	MP28760-MB2A	1		
16:32	MP28761-MB1	1		
16:36	MP28761-B1	1		
16:40	FA23271-1	1		(sample used for QC only; not part of login FA23258)
16:45	MP28761-D1	1		
16:49	MP28761-SD1	5		
16:53	MP28761-PS1	1		
16:57	MA12320-CCV9	1		
17:01	MA12320-CCB9	1		
17:05	MP28761-S1	1		
17:09	MP28761-S2	1		

Accutest Laboratories Instrument Runlog
Inorganics Analyses

Login Number: FA23258
Account: FPMRNYR - FPM Remediations
Project: HM-AZ PBR Holloman AFB; Alamogordo, NM

File ID: SB040615M1.ICP Date Analyzed: 04/06/15 Methods: SW846 6010C
Analyst: LM Run ID: MA12320
Parameters: Sb,As,Cu,Pb,Zn

Time	Sample Description	Dilution Factor	PS Recov	Comments
17:13	ZZZZZZ	1		
17:17	ZZZZZZ	1		
17:21	ZZZZZZ	1		
17:25	ZZZZZZ	1		
17:30	ZZZZZZ	1		
17:34	ZZZZZZ	1		
17:38	ZZZZZZ	1		
17:43	ZZZZZZ	1		
17:47	MA12320-CCV10	1		
17:51	MA12320-CCB10	1		
17:55	ZZZZZZ	1		
18:00	ZZZZZZ	1		
18:04	ZZZZZZ	1		
18:08	ZZZZZZ	5		
18:13	ZZZZZZ	5		
18:17	ZZZZZZ	1		
18:21	ZZZZZZ	1		
18:25	ZZZZZZ	1		
18:30	ZZZZZZ	1		
18:34	ZZZZZZ	1		
18:38	MA12320-CCV11	1		
18:42	MA12320-CCB11	1		
18:46	ZZZZZZ	1		
18:51	MA12320-CRIA2	1		
18:55	MA12320-ICSA2	1		
18:59	MA12320-ICSAB2	1		
19:04	MA12320-CCV12	1		
19:08	MA12320-CCB12	1		

----------> Last reportable CCB for job FA23258
Refer to raw data for calibration curve and standards.

INTERNAL STANDARD SUMMARY

Login Number: FA23258
Account: FPMRNYR - FPM Remediations
Project: HM-AZ PBR Holloman AFB; Alamogordo, NM

File ID: SB040615M1.ICP Date Analyzed: 04/06/15 Methods: SW846 6010C
Analyst: LM Run ID: MA12320
Parameters: Sb,As,Cu,Pb,Zn

Time	Sample Description	Istd#1	Istd#2	Istd#3	Istd#4
09:31	MA12320-STD1	7644	46541	4007	3147
09:36	MA12320-STD2	7574	46396	4052	2918
09:39	MA12320-STD3	7274	43952	3962	2630
09:42	MA12320-STD4	6947	42320	3890	2421
09:45	MA12320-HSTD1	6972	42724	3914	2431
09:51	MA12320-ICV1	7150	42769	3903	2584
09:57	MA12320-ICB1	7505 R	46652 R	4034 R	3108 R
10:01	MA12320-CRIA1	7380	45016	3977	2925
10:08	MA12320-ICSA1	6627	39405	3862	2291
10:13	MA12320-ICSAB1	6558	39254	3826	2255
10:21	MA12320-CCV1	7145	43492	3931	2597
10:31	MA12320-CCB1	7497	46579	4076	3117
10:41	FA23258-5	6971	43418	4094	2563
10:45	MP28752-D1	7059	44001	4120	2626
10:49	MP28752-S1	7007	43917	4207	2579
10:54	MP28752-S2	7028	44353	4217	2584
10:58	MP28752-PS1	7021	44587	4276	2612
11:02	MP28752-SD1	7315	46610	4322	2879
11:06	FA23258-22	7042	44707	4309	2625
11:11	FA23258-23	7061	44710	4294	2612
11:15	FA23258-25	7048	44796	4332	2618
11:19	MA12320-CCV2	7201	45958	4307	2656
11:23	MA12320-CCB2	7577	48462	4329	3175
11:27	FA23258-27	7033	44354	4286	2598
11:32	FA23258-29	6984	43802	4227	2568
11:36	FA23258-31	6993	44295	4243	2612
11:40	FA23258-33	6919	44118	4277	2615
11:44	ZZZZZZ	6893	43896	4229	2606
11:49	ZZZZZZ	6920	44085	4280	2586
11:53	FA23243-19	8551	54084	5085 !	2746
11:57	MP28754-D1	8481	53564	5031	2689
12:01	MP28754-S1	8345	53124	4961	2671
12:05	MP28754-S2	8381	53412	4968	2736

INTERNAL STANDARD SUMMARY

Login Number: FA23258
Account: FPMRNYR - FPM Remediations
Project: HM-AZ PBR Holloman AFB; Alamogordo, NM

File ID: SB040615M1.ICP Date Analyzed: 04/06/15 Methods: SW846 6010C
Analyst: LM Run ID: MA12320
Parameters: Sb,As,Cu,Pb,Zn

Time	Sample Description	Istd#1	Istd#2	Istd#3	Istd#4
12:09	MA12320-CCV3	7118	45340	4277	2626
12:13	MA12320-CCB3	7468	48003	4304	3136
12:17	MP28754-PS1	8478	53749	5044 !	2723
12:21	MP28754-SD1	7896	50393	4576	2870
12:25	ZZZZZZ	8472	53894	4914	2953
12:29	ZZZZZZ	8681	54275	5123 !	2642
12:33	ZZZZZZ	8423	53067	4964	2654
12:37	ZZZZZZ	8574	53339	5081 !	2576
12:41	ZZZZZZ	8416	52282	4924	2644
12:45	ZZZZZZ	8601	53008	5001	2720
12:49	ZZZZZZ	8660	54040	4944	2822
12:53	ZZZZZZ	8361	51787	5002	2439
12:58	MA12320-CCV4	7094	44541	4146	2601
13:02	MA12320-CCB4	7461	47045	4209	3106
13:06	ZZZZZZ	8683	54049	5209 !	2440
13:10	ZZZZZZ	8251	51377	4679	2970
13:14	ZZZZZZ	9216	57053	5276 !	2813
13:18	ZZZZZZ	9108	56167	5198 !	2727
13:22	ZZZZZZ	9174	57212	5220 !	2905
13:26	ZZZZZZ	8666	54078	4921	2891
13:30	MP28760-MB1	7520	47697	4205	3118
13:35	MP28760-B1	7237	45119	4164	2732
13:39	FA23132-1	7391	44841	4251	2684
13:43	MP28760-D1	7421	44467	4202	2676
13:47	MA12320-CCV5	7189	43014	4004	2581
13:51	MA12320-CCB5	7559	45160	4016	3080
14:25	MA12320-CCV6	7145	43013	4020	2579
14:31	MA12320-CCB6	7474	45339	4063	3070
14:35	MP28760-SD1	7462	45056	4151	2887
14:40	MP28760-PS1	7332	43845	4142	2631
14:44	MP28760-S1	7300	43192	4094	2555
14:48	MP28760-S2	7304	43676	4108	2561
14:52	ZZZZZZ	7210	43229	4055	2718

INTERNAL STANDARD SUMMARY

Login Number: FA23258
Account: FPMRNYR - FPM Remediations
Project: HM-AZ PBR Holloman AFB; Alamogordo, NM

File ID: SB040615M1.ICP Date Analyzed: 04/06/15 Methods: SW846 6010C
Analyst: LM Run ID: MA12320
Parameters: Sb,As,Cu,Pb,Zn

Time	Sample Description	Istd#1	Istd#2	Istd#3	Istd#4
14:56	ZZZZZZ	7378	43497	4007	2811
15:00	ZZZZZZ	7440	43325	3971	2861
15:04	ZZZZZZ	7342	43636	4109	2784
15:09	ZZZZZZ	7325	44013	4083	2802
15:13	ZZZZZZ	7397	43648	3998	2829
15:17	MA12320-CCV7	7219	41875	3890	2570
15:21	MA12320-CCB7	7614	44559	3970	3077
15:25	ZZZZZZ	7127	41341	3967	2597
15:30	ZZZZZZ	7364	42802	3998	2745
15:34	ZZZZZZ	7372	43114	3987	2844
15:38	ZZZZZZ	7415	43394	3989	2872
15:42	ZZZZZZ	7477	44047	3993	2911
15:46	ZZZZZZ	7311	42733	3945	2810
15:50	ZZZZZZ	7438	43472	3955	2887
15:55	ZZZZZZ	7584	43949	4076	2834
15:59	ZZZZZZ	7383	43164	3989	2841
16:03	ZZZZZZ	7353	42486	3934	2705
16:07	MA12320-CCV8	7162	41626	3872	2555
16:11	MA12320-CCB8	7528	43959	3951	3041
16:15	ZZZZZZ	7352	42858	3998	2744
16:20	ZZZZZZ	7630	43894	4095	2701
16:24	ZZZZZZ	7470	43284	4010	2706
16:28	MP28760-MB2A	7587	44268	3934	3055
16:32	MP28761-MB1	7631	44914	3954	3081
16:36	MP28761-B1	7371	42240	3903	2704
16:40	FA23271-1	8323	47587	4308	2911
16:45	MP28761-D1	8240	47468	4276	2937
16:49	MP28761-SD1	7795	44899	4032	3013
16:53	MP28761-PS1	8242	46925	4242	2799
16:57	MA12320-CCV9	7193	41223	3797	2556
17:01	MA12320-CCB9	7543	43214	3869	3037
17:05	MP28761-S1	8029	45915	4266	2679
17:09	MP28761-S2	8070	46064	4232	2680

INTERNAL STANDARD SUMMARY

Login Number: FA23258
Account: FPMRNYR - FPM Remediations
Project: HM-AZ PBR Holloman AFB; Alamogordo, NM

File ID: SB040615M1.ICP Date Analyzed: 04/06/15 Methods: SW846 6010C
Analyst: LM Run ID: MA12320
Parameters: Sb,As,Cu,Pb,Zn

Time	Sample Description	Istd#1	Istd#2	Istd#3	Istd#4
17:13	ZZZZZZ	8471	48609	4413	2856
17:17	ZZZZZZ	8178	46774	4271	2827
17:21	ZZZZZZ	6688	39060	4120	1953
17:25	ZZZZZZ	7578	43838	4551	1997
17:30	ZZZZZZ	6858	39600	4060	2031
17:34	ZZZZZZ	7612	44704	4681	1814 !
17:38	ZZZZZZ	7580	44734	4706	1741 !
17:43	ZZZZZZ	6739	39520	4173	1783 !
17:47	MA12320-CCV10	7161	41610	3766	2552
17:51	MA12320-CCB10	7509	43831	3807	3036
17:55	ZZZZZZ	6010	35179	3722	1753 !
18:00	ZZZZZZ	5825	34535	3694	1727 !
18:04	ZZZZZZ	6018	35588	3704	1796 !
18:08	ZZZZZZ	5418	32442	3529	1605 !
18:13	ZZZZZZ	5243	32523	3581	1499 !
18:17	ZZZZZZ	5810	34252	3604	1731 !
18:21	ZZZZZZ	7097	41424	3782	2491
18:25	ZZZZZZ	7188	41978	3827	2504
18:30	ZZZZZZ	5601	33160	3555	1688 !
18:34	ZZZZZZ	7015	41104	3820	2458
18:38	MA12320-CCV11	7147	42180	3790	2557
18:42	MA12320-CCB11	7501	44101	3789	3037
18:46	ZZZZZZ	7157	42071	4083	2242
18:51	MA12320-CRIA2	7378	43348	3769	2884
18:55	MA12320-ICSA2	6576	38128	3667	2244
18:59	MA12320-ICSAB2	6533	37466	3592	2202
19:04	MA12320-CCV12	7122	41538	3683	2543
19:08	MA12320-CCB12	7456	44220	3750	3031

R = Reference for ISTD limits. ! = Outside limits.

LEGEND:

Istd#	Parameter	Limits
Istd#1	Yttrium (2243)	60-125 %
Istd#2	Yttrium (3600)	60-125 %
Istd#3	Yttrium (3710)	60-125 %
Istd#4	Indium	60-125 %

BLANK RESULTS SUMMARY
Part 1 - Initial and Continuing Calibration Blanks

Login Number: FA23258
Account: FPMRNYR - FPM Remediations
Project: HM-AZ PBR Holloman AFB; Alamogordo, NM

File ID: SB040615M1.ICP Date Analyzed: 04/06/15 Methods: SW846 6010C
QC Limits: result < RL Run ID: MA12320 Units: ug/l

Time:			09:57		10:31		11:23		12:13	
Sample ID:			ICB1		CCB1		CCB2		CCB3	
Metal	RL	IDL	raw	final	raw	final	raw	final	raw	final
Aluminum	200	14	anr							
Antimony	6.0	1	-0.10	<6.0	-0.10	<6.0	-0.40	<6.0	-0.40	<6.0
Arsenic	10	1.3	-0.90	<10	0.20	<10	-0.30	<10	-0.40	<10
Barium	200	1	anr							
Beryllium	4.0	.2								
Cadmium	5.0	.2	anr							
Calcium	1000	50								
Chromium	10	1	anr							
Cobalt	50	.2								
Copper	25	1	-0.40	<25	0.20	<25	0.0	<25	-0.10	<25
Iron	300	17	anr							
Lead	5.0	1	0.30	<5.0	0.60	<5.0	1.2	<5.0	0.50	<5.0
Magnesium	5000	35								
Manganese	15	.5	anr							
Molybdenum	50	.3	anr							
Nickel	40	.4	anr							
Potassium	10000	200								
Selenium	10	2.4	anr							
Silver	10	.7	anr							
Sodium	10000	500								
Strontium	10	.5								
Thallium	10	1.1								
Tin	50	.9								
Titanium	10	.5								
Vanadium	50	.5								
Zinc	20	3	-0.30	<20	-0.10	<20	-0.20	<20	-0.20	<20

(*) Outside of QC limits
(anr) Analyte not requested

BLANK RESULTS SUMMARY
Part 1 - Initial and Continuing Calibration Blanks

Login Number: FA23258
Account: FPMRNYR - FPM Remediations
Project: HM-AZ PBR Holloman AFB; Alamogordo, NM

File ID: SB040615M1.ICP Date Analyzed: 04/06/15 Methods: SW846 6010C
QC Limits: result < RL Run ID: MA12320 Units: ug/l

Time:			13:02		13:51		14:31		15:21	
Sample ID:			CCB4		CCB5		CCB6		CCB7	
Metal	RL	IDL	raw	final	raw	final	raw	final	raw	final
Aluminum	200	14	anr							
Antimony	6.0	1	0.30	<6.0	0.0	<6.0	2.2	<6.0	1.7	<6.0
Arsenic	10	1.3	-0.60	<10	-0.30	<10	0.20	<10	0.10	<10
Barium	200	1	anr							
Beryllium	4.0	.2								
Cadmium	5.0	.2	anr							
Calcium	1000	50								
Chromium	10	1	anr							
Cobalt	50	.2								
Copper	25	1	0.0	<25	-0.30	<25	0.0	<25	0.20	<25
Iron	300	17	anr							
Lead	5.0	1	1.0	<5.0	0.10	<5.0	-0.20	<5.0	1.0	<5.0
Magnesium	5000	35								
Manganese	15	.5	anr							
Molybdenum	50	.3	anr							
Nickel	40	.4	anr							
Potassium	10000	200								
Selenium	10	2.4	anr							
Silver	10	.7	anr							
Sodium	10000	500								
Strontium	10	.5								
Thallium	10	1.1								
Tin	50	.9								
Titanium	10	.5								
Vanadium	50	.5								
Zinc	20	3	-0.30	<20	-0.30	<20	0.20	<20	0.40	<20

(*) Outside of QC limits
(anr) Analyte not requested

BLANK RESULTS SUMMARY
Part 1 - Initial and Continuing Calibration Blanks

Login Number: FA23258
Account: FPMRNYR - FPM Remediations
Project: HM-AZ PBR Holloman AFB; Alamogordo, NM

File ID: SB040615M1.ICP Date Analyzed: 04/06/15 Methods: SW846 6010C
QC Limits: result < RL Run ID: MA12320 Units: ug/l

Time:			16:11		17:01		17:51		18:42	
Sample ID:			CCB8		CCB9		CCB10		CCB11	
Metal	RL	IDL	raw	final	raw	final	raw	final	raw	final
Aluminum	200	14	anr							
Antimony	6.0	1	2.4	<6.0	1.9	<6.0	2.5	<6.0	0.80	<6.0
Arsenic	10	1.3	0.80	<10	0.90	<10	0.10	<10	0.40	<10
Barium	200	1	anr							
Beryllium	4.0	.2								
Cadmium	5.0	.2	anr							
Calcium	1000	50								
Chromium	10	1	anr							
Cobalt	50	.2								
Copper	25	1	0.0	<25	-0.20	<25	0.10	<25	0.0	<25
Iron	300	17	anr							
Lead	5.0	1	0.80	<5.0	0.40	<5.0	0.40	<5.0	0.20	<5.0
Magnesium	5000	35								
Manganese	15	.5	anr							
Molybdenum	50	.3	anr							
Nickel	40	.4	anr							
Potassium	10000	200								
Selenium	10	2.4	anr							
Silver	10	.7	anr							
Sodium	10000	500								
Strontium	10	.5								
Thallium	10	1.1								
Tin	50	.9								
Titanium	10	.5								
Vanadium	50	.5								
Zinc	20	3	0.40	<20	0.30	<20	0.40	<20	0.30	<20

(*) Outside of QC limits
(anr) Analyte not requested

BLANK RESULTS SUMMARY
Part 1 - Initial and Continuing Calibration Blanks

Login Number: FA23258
Account: FPMRNYR - FPM Remediations
Project: HM-AZ PBR Holloman AFB; Alamogordo, NM

File ID: SB040615M1.ICP Date Analyzed: 04/06/15 Methods: SW846 6010C
QC Limits: result < RL Run ID: MA12320 Units: ug/l

Time:			19:08	
Sample ID:			CCB12	
Metal	RL	IDL	raw	final
Aluminum	200	14	anr	
Antimony	6.0	1	1.0	<6.0
Arsenic	10	1.3	0.40	<10
Barium	200	1	anr	
Beryllium	4.0	.2		
Cadmium	5.0	.2	anr	
Calcium	1000	50		
Chromium	10	1	anr	
Cobalt	50	.2		
Copper	25	1	-0.10	<25
Iron	300	17	anr	
Lead	5.0	1	-0.20	<5.0
Magnesium	5000	35		
Manganese	15	.5	anr	
Molybdenum	50	.3	anr	
Nickel	40	.4	anr	
Potassium	10000	200		
Selenium	10	2.4	anr	
Silver	10	.7	anr	
Sodium	10000	500		
Strontium	10	.5		
Thallium	10	1.1		
Tin	50	.9		
Titanium	10	.5		
Vanadium	50	.5		
Zinc	20	3	0.20	<20

(*) Outside of QC limits
(anr) Analyte not requested

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: FA23258
Account: FPMRNYR - FPM Remediations
Project: HM-AZ PBR Holloman AFB; Alamogordo, NM

File ID: SB040615M1.ICP Date Analyzed: 04/06/15 Methods: SW846 6010C
QC Limits: 90 to 110 % Recovery Run ID: MA12320 Units: ug/l

Time:		09:51			10:21			11:19	
Sample ID:	ICV	ICV1		CCV	CCV1		CCV	CCV2	
Metal	True	Results	% Rec	True	Results	% Rec	True	Results	% Rec
Aluminum	anr								
Antimony	2000	2050	102.5	2000	2010	100.5	2000	2090	104.5
Arsenic	2000	2050	102.5	2000	2000	100.0	2000	2080	104.0
Barium	anr								
Beryllium									
Cadmium	anr								
Calcium									
Chromium	anr								
Cobalt									
Copper	2000	2040	102.0	2000	2010	100.5	2000	2010	100.5
Iron	anr								
Lead	2000	2040	102.0	2000	1980	99.0	2000	1950	97.5
Magnesium									
Manganese	anr								
Molybdenum	anr								
Nickel	anr								
Potassium									
Selenium	anr								
Silver	anr								
Sodium									
Strontium									
Thallium									
Tin									
Titanium									
Vanadium									
Zinc	2000	2080	104.0	2000	2010	100.5	2000	2000	100.0

(*) Outside of QC limits
(anr) Analyte not requested

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: FA23258
Account: FPMRNYR - FPM Remediations
Project: HM-AZ PBR Holloman AFB; Alamogordo, NM

File ID: SB040615M1.ICP Date Analyzed: 04/06/15 Methods: SW846 6010C
QC Limits: 90 to 110 % Recovery Run ID: MA12320 Units: ug/l

Time:		12:09			12:58			13:47	
Sample ID:	CCV	CCV3		CCV	CCV4		CCV	CCV5	
Metal	True	Results	% Rec	True	Results	% Rec	True	Results	% Rec
Aluminum	anr								
Antimony	2000	2130	106.5	2000	2120	106.0	2000	2080	104.0
Arsenic	2000	2120	106.0	2000	2100	105.0	2000	2030	101.5
Barium	anr								
Beryllium									
Cadmium	anr								
Calcium									
Chromium	anr								
Cobalt									
Copper	2000	2050	102.5	2000	2080	104.0	2000	2150	107.5
Iron	anr								
Lead	2000	1980	99.0	2000	2000	100.0	2000	2050	102.5
Magnesium									
Manganese	anr								
Molybdenum	anr								
Nickel	anr								
Potassium									
Selenium	anr								
Silver	anr								
Sodium									
Strontium									
Thallium									
Tin									
Titanium									
Vanadium									
Zinc	2000	2030	101.5	2000	2040	102.0	2000	2040	102.0

(*) Outside of QC limits
(anr) Analyte not requested

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: FA23258
Account: FPMRNYR - FPM Remediations
Project: HM-AZ PBR Holloman AFB; Alamogordo, NM

File ID: SB040615M1.ICP Date Analyzed: 04/06/15 Methods: SW846 6010C
QC Limits: 90 to 110 % Recovery Run ID: MA12320 Units: ug/l

Time:		14:25			15:17			16:07	
Sample ID:	CCV	CCV6		CCV	CCV7		CCV	CCV8	
Metal	True	Results	% Rec	True	Results	% Rec	True	Results	% Rec
Aluminum	anr								
Antimony	2000	1980	99.0	2000	1930	96.5	2000	1950	97.5
Arsenic	2000	1980	99.0	2000	1910	95.5	2000	1930	96.5
Barium	anr								
Beryllium									
Cadmium	anr								
Calcium									
Chromium	anr								
Cobalt									
Copper	2000	1990	99.5	2000	2030	101.5	2000	2040	102.0
Iron	anr								
Lead	2000	1970	98.5	2000	1980	99.0	2000	1990	99.5
Magnesium									
Manganese	anr								
Molybdenum	anr								
Nickel	anr								
Potassium									
Selenium	anr								
Silver	anr								
Sodium									
Strontium									
Thallium									
Tin									
Titanium									
Vanadium									
Zinc	2000	1990	99.5	2000	1980	99.0	2000	2000	100.0

(*) Outside of QC limits
(anr) Analyte not requested

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: FA23258
Account: FPMRNYR - FPM Remediations
Project: HM-AZ PBR Holloman AFB; Alamogordo, NM

File ID: SB040615M1.ICP Date Analyzed: 04/06/15 Methods: SW846 6010C
QC Limits: 90 to 110 % Recovery Run ID: MA12320 Units: ug/l

Time:		16:57			17:47			18:38	
Sample ID:	CCV	CCV9		CCV	CCV10		CCV	CCV11	
Metal	True	Results	% Rec	True	Results	% Rec	True	Results	% Rec
Aluminum	anr								
Antimony	2000	1930	96.5	2000	1950	97.5	2000	1970	98.5
Arsenic	2000	1910	95.5	2000	1930	96.5	2000	1950	97.5
Barium	anr								
Beryllium									
Cadmium	anr								
Calcium									
Chromium	anr								
Cobalt									
Copper	2000	2060	103.0	2000	2050	102.5	2000	2040	102.0
Iron	anr								
Lead	2000	1990	99.5	2000	2000	100.0	2000	2000	100.0
Magnesium									
Manganese	anr								
Molybdenum	anr								
Nickel	anr								
Potassium									
Selenium	anr								
Silver	anr								
Sodium									
Strontium									
Thallium									
Tin									
Titanium									
Vanadium									
Zinc	2000	1990	99.5	2000	2000	100.0	2000	2000	100.0

(*) Outside of QC limits
(anr) Analyte not requested

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: FA23258
Account: FPMRNYR - FPM Remediations
Project: HM-AZ PBR Holloman AFB; Alamogordo, NM

File ID: SB040615M1.ICP Date Analyzed: 04/06/15 Methods: SW846 6010C
QC Limits: 90 to 110 % Recovery Run ID: MA12320 Units: ug/l

Time:		19:04	
Sample ID:	CCV	CCV12	
Metal	True	Results	% Rec
Aluminum	anr		
Antimony	2000	1960	98.0
Arsenic	2000	1940	97.0
Barium	anr		
Beryllium			
Cadmium	anr		
Calcium			
Chromium	anr		
Cobalt			
Copper	2000	2050	102.5
Iron	anr		
Lead	2000	1990	99.5
Magnesium			
Manganese	anr		
Molybdenum	anr		
Nickel	anr		
Potassium			
Selenium	anr		
Silver	anr		
Sodium			
Strontium			
Thallium			
Tin			
Titanium			
Vanadium			
Zinc	2000	1990	99.5

(*) Outside of QC limits
(anr) Analyte not requested

HIGH STANDARD CHECK SUMMARY

Login Number: FA23258
Account: FPMRNYR - FPM Remediations
Project: HM-AZ PBR Holloman AFB; Alamogordo, NM

File ID: SB040615M1.ICP Date Analyzed: 04/06/15 Methods: SW846 6010C
QC Limits: 95 to 105 % Recovery Run ID: MA12320 Units: ug/l

Time:		09:45	
Sample ID:	HSTD	HSTD1	
Metal	True	Results	% Rec
Aluminum	anr		
Antimony	4000	4020	100.5
Arsenic	4000	4010	100.3
Barium	anr		
Beryllium			
Cadmium	anr		
Calcium			
Chromium	anr		
Cobalt			
Copper	4000	3990	99.8
Iron	anr		
Lead	4000	4040	101.0
Magnesium			
Manganese	anr		
Molybdenum	anr		
Nickel	anr		
Potassium			
Selenium	anr		
Silver	anr		
Sodium			
Strontium			
Thallium			
Tin			
Titanium			
Vanadium			
Zinc	4000	3970	99.3

(*) Outside of QC limits
(anr) Analyte not requested

LOW CALIBRATION CHECK STANDARDS SUMMARY

Login Number: FA23258
Account: FPMRNYR - FPM Remediations
Project: HM-AZ PBR Holloman AFB; Alamogordo, NM

File ID: SB040615M1.ICP Date Analyzed: 04/06/15 Methods: SW846 6010C
QC Limits: CRI 70-130% CRIA 70-130% Run ID: MA12320 Units: ug/l

Time:			10:01		18:51	
Sample ID:	CRI	CRIA	CRIA1		CRIA2	
Metal	True	True	Results	% Rec	Results	% Rec
Aluminum	400	200	anr			
Antimony	10	5.0	4.8	96.0	5.0	100.0
Arsenic	20	10	10.3	103.0	10.2	102.0
Barium	400	200	anr			
Beryllium	10	5.0				
Cadmium	10	5.0	anr			
Calcium	2000	1000				
Chromium	20	10	anr			
Cobalt	100	50				
Copper	50	25	27.0	108.0	27.4	109.6
Iron	600	300	anr			
Lead	10	5.0	5.4	108.0	5.0	100.0
Magnesium	10000	5000				
Manganese	30	15	anr			
Molybdenum	100	50	anr			
Nickel	80	40	anr			
Potassium	20000	10000				
Selenium	20	10	anr			
Silver	20	10	anr			
Sodium	20000	10000				
Strontium	20	10				
Thallium	20	10				
Tin	100	50				
Titanium	20	10				
Vanadium	100	50				
Zinc	40	20	22.1	110.5	22.3	111.5

(*) Outside of QC limits
(anr) Analyte not requested

INTERFERING ELEMENT CHECK STANDARDS SUMMARY
Part 1 - ICSA and ICSAB Standards

Login Number: FA23258
Account: FPMRNYR - FPM Remediations
Project: HM-AZ PBR Holloman AFB; Alamogordo, NM

File ID: SB040615M1.ICP Date Analyzed: 04/06/15 Methods: SW846 6010C
QC Limits: 80 to 120 % Recovery Run ID: MA12320 Units: ug/l

Time:			10:08		10:13		18:55		18:59	
Sample ID:	ICSA	ICSAB	ICSA1		ICSAB1		ICSA2		ICSAB2	
Metal	True	True	Results	% Rec	Results	% Rec	Results	% Rec	Results	% Rec
Aluminum	500000	500000	509000	101.8	495000	99.0	516000	103.2	521000	104.2
Antimony		1000	-0.20		1080	108.0	-0.80		1050	105.0
Arsenic		1000	-1.6		1070	107.0	1.8		1030	103.0
Barium		500	0.10		519	103.8	0.40		524	104.8
Beryllium		500	0.0		519	103.8	0.0		513	102.6
Cadmium		1000	0.60		939	93.9	0.40		928	92.8
Calcium	500000	500000	478000	95.6	479000	95.8	481000	96.2	492000	98.4
Chromium		500	0.40		492	98.4	0.80		512	102.4
Cobalt		500	-0.50		483	96.6	-0.20		476	95.2
Copper		500	-0.60		546	109.2	-1.2		555	111.0
Iron	200000	200000	186000	93.0	189000	94.5	179000	89.5	185000	92.5
Lead		1000	0.20		970	97.0	-13* (a)		956	95.6
Magnesium	500000	500000	493000	98.6	493000	98.6	472000	94.4	476000	95.2
Manganese		500	-0.10		504	100.8	-0.10		517	103.4
Molybdenum		1000	0.0		964	96.4	2.0		946	94.6
Nickel		1000	0.40		974	97.4	2.4		941	94.1
Potassium			27.1		18.4		90.4		45.6	
Selenium		1000	1.2		1040	104.0	1.3		1010	101.0
Silver		1000	0.50		976	97.6	-0.50		984	98.4
Sodium			173		186		187		153	
Strontium		1000	-0.10		1020	102.0	0.0		1060	106.0
Thallium		1000	-1.3		968	96.8	-1.2		965	96.5
Tin		1000	0.10		974	97.4	0.90		915	91.5
Titanium		1000	0.40		1020	102.0	1.1		1050	105.0
Vanadium		500	-0.20		485	97.0	0.40		481	96.2
Zinc		1000	-2.3		967	96.7	-2.5		949	94.9

(*) Outside of QC limits
(anr) Analyte not requested
(a) Possible instrument baseline drift.

Accutest Laboratories Instrument Runlog
Inorganics Analyses

Login Number: FA23258
Account: FPMRNYR - FPM Remediations
Project: HM-AZ PBR Holloman AFB; Alamogordo, NM

File ID: SA040715M1.ICP Date Analyzed: 04/07/15 Methods: SW846 6010C
Analyst: LM Run ID: MA12324
Parameters: Sb,As,Cu,Pb,Zn

Time	Sample Description	Dilution Factor	PS Recov	Comments
09:45	MA12324-STD1	1		STDA
09:49	MA12324-STD2	1		STDB
09:52	MA12324-STD3	1		STDC
09:56	MA12324-STD4	1		STDD
10:00	MA12324-HSTD1	1		
10:07	MA12324-ICV1	1		
10:14	MA12324-ICB1	1		
10:19	MA12324-CRIA1	1		
10:25	MA12324-ICSA1	1		
10:33	MA12324-ICSAB1	1		
10:40	MA12324-CCV1	1		
10:48	MA12324-CCB1	1		
10:52	MP28764-MB1	1		
10:56	MP28764-B1	1		
11:00	FA23126-1	1		(sample used for QC only; not part of login FA23258)
11:05	MP28764-D1	1		
11:09	MP28764-SD1	5		
11:14	MP28764-PS1	1		
11:18	MP28764-S1	1		
11:23	MP28764-S2	1		
11:27	ZZZZZZ	1		
11:31	ZZZZZZ	1		
11:36	MA12324-CCV2	1		
11:40	MA12324-CCB2	1		
11:45	ZZZZZZ	1		
11:49	ZZZZZZ	1		
11:54	ZZZZZZ	1		
11:58	FA23258-14	1		
----------> Last reportable sample/prep for job FA23258				
12:03	ZZZZZZ	1		
12:07	ZZZZZZ	1		
12:11	ZZZZZZ	1		
12:22	ZZZZZZ	1		
12:27	MP28766-MB1	1		

Accutest Laboratories Instrument Runlog
Inorganics Analyses

Login Number: FA23258
Account: FPMRNYR - FPM Remediations
Project: HM-AZ PBR Holloman AFB; Alamogordo, NM

File ID: SA040715M1.ICP Date Analyzed: 04/07/15 Methods: SW846 6010C
Analyst: LM Run ID: MA12324
Parameters: Sb,As,Cu,Pb,Zn

Time	Sample Description	Dilution Factor	PS Recov	Comments
12:31	MP28766-B1	1		
12:35	MA12324-CCV3	1		
12:40	MA12324-CCB3	1		
12:44	FA23342-1	1		(sample used for QC only; not part of login FA23258)
12:49	MP28766-D1	1		
12:53	MP28766-SD1	5		
12:58	MP28766-PS1	1		
13:02	MP28766-S1	1		
13:07	MP28766-S2	1		
13:11	ZZZZZZ	1		
13:16	ZZZZZZ	1		
13:20	ZZZZZZ	1		
13:25	ZZZZZZ	1		
13:29	MA12324-CCV4	1		
13:34	MA12324-CCB4	1		
14:05	MA12324-CCV5	1		
14:11	MA12324-CCB5	1		
14:15	ZZZZZZ	1		
14:20	ZZZZZZ	1		
14:24	ZZZZZZ	1		
14:29	ZZZZZZ	1		
14:33	ZZZZZZ	1		
14:38	ZZZZZZ	1		
14:42	ZZZZZZ	1		
14:47	ZZZZZZ	1		
14:51	ZZZZZZ	1		
14:56	ZZZZZZ	1		
15:00	MA12324-CCV6	1		
15:05	MA12324-CCB6	1		
15:09	ZZZZZZ	1		
15:14	ZZZZZZ	1		
15:18	ZZZZZZ	1		
15:23	ZZZZZZ	1		

Accutest Laboratories Instrument Runlog
Inorganics Analyses

Login Number: FA23258
Account: FPMRNYR - FPM Remediations
Project: HM-AZ PBR Holloman AFB; Alamogordo, NM

File ID: SA040715M1.ICP Date Analyzed: 04/07/15 Methods: SW846 6010C
Analyst: LM Run ID: MA12324
Parameters: Sb,As,Cu,Pb,Zn

Time	Sample Description	Dilution Factor	PS Recov	Comments
15:28	ZZZZZZ	1		
15:32	MP28767-MB1	1		
15:37	MP28767-B1	1		
15:41	MP28767-B2	1		
15:45	ZZZZZZ	1		
15:50	ZZZZZZ	1		
15:54	MA12324-CCV7	1		
15:59	MA12324-CCB7	1		
16:03	ZZZZZZ	1		
16:08	MA12324-CRIA2	1		
16:12	MA12324-ICSA2	1		
16:17	MA12324-ICSAB2	1		
16:22	MA12324-CCV8	1		
16:26	MA12324-CCB8	1		

----------> Last reportable CCB for job FA23258
Refer to raw data for calibration curve and standards.

INTERNAL STANDARD SUMMARY

Login Number: FA23258
Account: FPMRNYR - FPM Remediations
Project: HM-AZ PBR Holloman AFB; Alamogordo, NM

File ID: SA040715M1.ICP Date Analyzed: 04/07/15 Methods: SW846 6010C
Analyst: LM Run ID: MA12324
Parameters: Sb,As,Cu,Pb,Zn

Time	Sample Description	Istd#1	Istd#2	Istd#3	Istd#4
09:45	MA12324-STD1	8203	58958	5838	3843
09:49	MA12324-STD2	8017	56982	5757	3501
09:52	MA12324-STD3	7708	54998	5712	3180
09:56	MA12324-STD4	7405	53400	5642	2951
10:00	MA12324-HSTD1	7390	53599	5621	2950
10:07	MA12324-ICV1	7661	54287	5614	3171
10:14	MA12324-ICB1	8046 R	57809 R	5706 R	3789 R
10:19	MA12324-CRIA1	7963	56897	5686	3579
10:25	MA12324-ICSA1	7148	49396	5387	2842
10:33	MA12324-ICSAB1	7159	49465	5265	2822
10:40	MA12324-CCV1	7703	54897	5548	3194
10:48	MA12324-CCB1	8094	58513	5626	3838
10:52	MP28764-MB1	8067	58273	5636	3779
10:56	MP28764-B1	7689	54482	5466	3306
11:00	FA23126-1	7640	54208	5498	3299
11:05	MP28764-D1	7607	53896	5460	3291
11:09	MP28764-SD1	8047	57473	5698	3657
11:14	MP28764-PS1	7588	54120	5508	3253
11:18	MP28764-S1	7444	52814	5455	3134
11:23	MP28764-S2	7439	52922	5393	3127
11:27	ZZZZZZ	7575	53499	5506	3274
11:31	ZZZZZZ	8228	58936	5854	3422
11:36	MA12324-CCV2	7609	54625	5524	3176
11:40	MA12324-CCB2	8024	57534	5553	3806
11:45	ZZZZZZ	7569	53813	5443	3269
11:49	ZZZZZZ	7506	53407	5397	3278
11:54	ZZZZZZ	8062	57428	5760	3387
11:58	FA23258-14	8009	57822	5568	3787
12:03	ZZZZZZ	7881	56284	5580	3463
12:07	ZZZZZZ	7554	54078	5486	3316
12:11	ZZZZZZ	7781	56084	5492	3480
12:22	ZZZZZZ	7490	53844	5483	3295
12:27	MP28766-MB1	8060	58596	5577	3777

INTERNAL STANDARD SUMMARY

Login Number: FA23258
Account: FPMRNYR - FPM Remediations
Project: HM-AZ PBR Holloman AFB; Alamogordo, NM

File ID: SA040715M1.ICP Date Analyzed: 04/07/15 Methods: SW846 6010C
Analyst: LM Run ID: MA12324
Parameters: Sb,As,Cu,Pb,Zn

Time	Sample Description	Istd#1	Istd#2	Istd#3	Istd#4
12:31	MP28766-B1	7693	54890	5423	3302
12:35	MA12324-CCV3	7662	54599	5412	3183
12:40	MA12324-CCB3	8043	57976	5571	3808
12:44	FA23342-1	7988	57059	5568	3540
12:49	MP28766-D1	7968	56895	5516	3520
12:53	MP28766-SD1	8025	57396	5608	3698
12:58	MP28766-PS1	7933	56096	5624	3462
13:02	MP28766-S1	7706	54284	5413	3238
13:07	MP28766-S2	7747	55066	5400	3244
13:11	ZZZZZZ	8114	57558	5600	3513
13:16	ZZZZZZ	8004	57003	5554	3391
13:20	ZZZZZZ	8118	57624	5533	3602
13:25	ZZZZZZ	8475	59559	5826	3472
13:29	MA12324-CCV4	7470	53089	5303	3112
13:34	MA12324-CCB4	7981	57290	5444	3775
14:05	MA12324-CCV5	7593	53863	5357	3158
14:11	MA12324-CCB5	8051	57652	5504	3803
14:15	ZZZZZZ	8177	57108	5586	3377
14:20	ZZZZZZ	7927	56362	5466	3586
14:24	ZZZZZZ	8016	56776	5549	3530
14:29	ZZZZZZ	8114	57413	5531	3520
14:33	ZZZZZZ	8157	57299	5534	3545
14:38	ZZZZZZ	8033	57415	5434	3655
14:42	ZZZZZZ	8218	57463	5483	3492
14:47	ZZZZZZ	8137	57585	5500	3587
14:51	ZZZZZZ	7822	55900	5340	3430
14:56	ZZZZZZ	7667	54384	5321	3407
15:00	MA12324-CCV6	7650	54139	5334	3173
15:05	MA12324-CCB6	8022	57900	5491	3787
15:09	ZZZZZZ	6644	44753	5110	2623
15:14	ZZZZZZ	7889	56403	5417	3577
15:18	ZZZZZZ	7200	51220	5223	3064
15:23	ZZZZZZ	7912	56321	5381	3587

INTERNAL STANDARD SUMMARY

Login Number: FA23258
Account: FPMRNYR - FPM Remediations
Project: HM-AZ PBR Holloman AFB; Alamogordo, NM

File ID: SA040715M1.ICP Date Analyzed: 04/07/15 Methods: SW846 6010C
Analyst: LM Run ID: MA12324
Parameters: Sb,As,Cu,Pb,Zn

Time	Sample Description	Istd#1	Istd#2	Istd#3	Istd#4
15:28	ZZZZZZ	7879	56086	5343	3581
15:32	MP28767-MB1	8128	58868	5530	3818
15:37	MP28767-B1	7809	54549	5351	3336
15:41	MP28767-B2	7784	54799	5299	3319
15:45	ZZZZZZ	8027	58058	5493	3758
15:50	ZZZZZZ	8021	57860	5434	3745
15:54	MA12324-CCV7	7584	54034	5271	3148
15:59	MA12324-CCB7	8021	57196	5423	3785
16:03	ZZZZZZ	8037	58236	5467	3765
16:08	MA12324-CRIA2	7854	55738	5374	3559
16:12	MA12324-ICSA2	7054	48238	5047	2824
16:17	MA12324-ICSAB2	7022	48654	5022	2776
16:22	MA12324-CCV8	7580	53773	5285	3151
16:26	MA12324-CCB8	8078	57423	5444	3824

R = Reference for ISTD limits. ! = Outside limits.

LEGEND:

Istd#	Parameter	Limits
Istd#1	Yttrium (2243)	60-125 %
Istd#2	Yttrium (3600)	60-125 %
Istd#3	Yttrium (3710)	60-125 %
Istd#4	Indium	60-125 %

BLANK RESULTS SUMMARY
Part 1 - Initial and Continuing Calibration Blanks

Login Number: FA23258
Account: FPMRNYR - FPM Remediations
Project: HM-AZ PBR Holloman AFB; Alamogordo, NM

File ID: SA040715M1.ICP Date Analyzed: 04/07/15 Methods: SW846 6010C
QC Limits: result < RL Run ID: MA12324 Units: ug/l

Time:			10:14		10:48		11:40		12:40	
Sample ID:			ICB1		CCB1		CCB2		CCB3	
Metal	RL	IDL	raw	final	raw	final	raw	final	raw	final
Aluminum	200	14	anr							
Antimony	6.0	1	1.7	<6.0	0.0	<6.0	0.90	<6.0	2.1	<6.0
Arsenic	10	1.3	0.80	<10	-0.30	<10	0.40	<10	0.20	<10
Barium	200	1	anr							
Beryllium	4.0	.2	anr							
Cadmium	5.0	.2	anr							
Calcium	1000	50								
Chromium	10	1	anr							
Cobalt	50	.2	anr							
Copper	25	1	-0.10	<25	-0.10	<25	0.40	<25	0.70	<25
Iron	300	17	anr							
Lead	5.0	1	-0.40	<5.0	-0.60	<5.0	-0.60	<5.0	-0.70	<5.0
Magnesium	5000	35								
Manganese	15	.5	anr							
Molybdenum	50	.3								
Nickel	40	.4								
Potassium	10000	200								
Selenium	10	2.4	anr							
Silver	10	.7	anr							
Sodium	10000	500								
Strontium	10	.5								
Thallium	10	1.1								
Tin	50	.9	anr							
Titanium	10	.5								
Vanadium	50	.5								
Zinc	20	3	-0.20	<20	-0.20	<20	-0.10	<20	-0.20	<20

(*) Outside of QC limits
(anr) Analyte not requested

BLANK RESULTS SUMMARY
Part 1 - Initial and Continuing Calibration Blanks

Login Number: FA23258
Account: FPMRNYR - FPM Remediations
Project: HM-AZ PBR Holloman AFB; Alamogordo, NM

File ID: SA040715M1.ICP Date Analyzed: 04/07/15 Methods: SW846 6010C
QC Limits: result < RL Run ID: MA12324 Units: ug/l

Time:			13:34		14:11		15:05		15:59	
Sample ID:			CCB4		CCB5		CCB6		CCB7	
Metal	RL	IDL	raw	final	raw	final	raw	final	raw	final
Aluminum	200	14	anr							
Antimony	6.0	1	0.10	<6.0	2.1	<6.0	3.1	<6.0*(a)	2.9	<6.0
Arsenic	10	1.3	-0.30	<10	0.10	<10	-0.20	<10	0.80	<10
Barium	200	1	anr							
Beryllium	4.0	.2	anr							
Cadmium	5.0	.2	anr							
Calcium	1000	50								
Chromium	10	1	anr							
Cobalt	50	.2	anr							
Copper	25	1	0.50	<25	0.20	<25	0.40	<25	0.20	<25
Iron	300	17	anr							
Lead	5.0	1	-0.60	<5.0	0.20	<5.0	-0.20	<5.0	-0.50	<5.0
Magnesium	5000	35								
Manganese	15	.5	anr							
Molybdenum	50	.3								
Nickel	40	.4								
Potassium	10000	200								
Selenium	10	2.4	anr							
Silver	10	.7	anr							
Sodium	10000	500								
Strontium	10	.5								
Thallium	10	1.1								
Tin	50	.9	anr							
Titanium	10	.5								
Vanadium	50	.5								
Zinc	20	3	-0.10	<20	0.0	<20	0.0	<20	0.10	<20

(*) Outside of QC limits
(anr) Analyte not requested
(a) All associated samples with results >MDL "B" coded.

BLANK RESULTS SUMMARY
Part 1 - Initial and Continuing Calibration Blanks

Login Number: FA23258
Account: FPMRNYR - FPM Remediations
Project: HM-AZ PBR Holloman AFB; Alamogordo, NM

File ID: SA040715M1.ICP Date Analyzed: 04/07/15 Methods: SW846 6010C
QC Limits: result < RL Run ID: MA12324 Units: ug/l

Time:			16:26	
Sample ID:			CCB8	
Metal	RL	IDL	raw	final
Aluminum	200	14	anr	
Antimony	6.0	1	2.4	<6.0
Arsenic	10	1.3	0.10	<10
Barium	200	1	anr	
Beryllium	4.0	.2	anr	
Cadmium	5.0	.2	anr	
Calcium	1000	50		
Chromium	10	1	anr	
Cobalt	50	.2	anr	
Copper	25	1	-0.10	<25
Iron	300	17	anr	
Lead	5.0	1	0.10	<5.0
Magnesium	5000	35		
Manganese	15	.5	anr	
Molybdenum	50	.3		
Nickel	40	.4		
Potassium	10000	200		
Selenium	10	2.4	anr	
Silver	10	.7	anr	
Sodium	10000	500		
Strontium	10	.5		
Thallium	10	1.1		
Tin	50	.9	anr	
Titanium	10	.5		
Vanadium	50	.5		
Zinc	20	3	0.10	<20

(*) Outside of QC limits
(anr) Analyte not requested

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: FA23258
Account: FPMRNYR - FPM Remediations
Project: HM-AZ PBR Holloman AFB; Alamogordo, NM

File ID: SA040715M1.ICP Date Analyzed: 04/07/15 Methods: SW846 6010C
QC Limits: 90 to 110 % Recovery Run ID: MA12324 Units: ug/l

Time:		10:07			10:40			11:36	
Sample ID:	ICV	ICV1		CCV	CCV1		CCV	CCV2	
Metal	True	Results	% Rec	True	Results	% Rec	True	Results	% Rec
Aluminum	anr								
Antimony	2000	2030	101.5	2000	2000	100.0	2000	2060	103.0
Arsenic	2000	2050	102.5	2000	2000	100.0	2000	2060	103.0
Barium	anr								
Beryllium	anr								
Cadmium	anr								
Calcium									
Chromium	anr								
Cobalt	anr								
Copper	2000	2020	101.0	2000	2010	100.5	2000	2040	102.0
Iron	anr								
Lead	2000	2020	101.0	2000	1980	99.0	2000	2020	101.0
Magnesium									
Manganese	anr								
Molybdenum									
Nickel									
Potassium									
Selenium	anr								
Silver	anr								
Sodium									
Strontium									
Thallium									
Tin	anr								
Titanium									
Vanadium									
Zinc	2000	2070	103.5	2000	2010	100.5	2000	2030	101.5

(*) Outside of QC limits
(anr) Analyte not requested

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: FA23258
Account: FPMRNYR - FPM Remediations
Project: HM-AZ PBR Holloman AFB; Alamogordo, NM

File ID: SA040715M1.ICP Date Analyzed: 04/07/15 Methods: SW846 6010C
QC Limits: 90 to 110 % Recovery Run ID: MA12324 Units: ug/l

Time:		12:35			13:29			14:05	
Sample ID:	CCV	CCV3		CCV	CCV4		CCV	CCV5	
Metal	True	Results	% Rec	True	Results	% Rec	True	Results	% Rec
Aluminum	anr								
Antimony	2000	2050	102.5	2000	2090	104.5	2000	1950	97.5
Arsenic	2000	2050	102.5	2000	2090	104.5	2000	1940	97.0
Barium	anr								
Beryllium	anr								
Cadmium	anr								
Calcium									
Chromium	anr								
Cobalt	anr								
Copper	2000	2050	102.5	2000	2110	105.5	2000	1970	98.5
Iron	anr								
Lead	2000	2020	101.0	2000	2060	103.0	2000	1940	97.0
Magnesium									
Manganese	anr								
Molybdenum									
Nickel									
Potassium									
Selenium	anr								
Silver	anr								
Sodium									
Strontium									
Thallium									
Tin	anr								
Titanium									
Vanadium									
Zinc	2000	2050	102.5	2000	2100	105.0	2000	1970	98.5

(*) Outside of QC limits
(anr) Analyte not requested

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: FA23258
Account: FPMRNYR - FPM Remediations
Project: HM-AZ PBR Holloman AFB; Alamogordo, NM

File ID: SA040715M1.ICP Date Analyzed: 04/07/15 Methods: SW846 6010C
QC Limits: 90 to 110 % Recovery Run ID: MA12324 Units: ug/l

Time:		15:00			15:54			16:22	
Sample ID:	CCV	CCV6		CCV	CCV7		CCV	CCV8	
Metal	True	Results	% Rec	True	Results	% Rec	True	Results	% Rec
Aluminum	anr								
Antimony	2000	1930	96.5	2000	1950	97.5	2000	1960	98.0
Arsenic	2000	1930	96.5	2000	1960	98.0	2000	1970	98.5
Barium	anr								
Beryllium	anr								
Cadmium	anr								
Calcium									
Chromium	anr								
Cobalt	anr								
Copper	2000	1980	99.0	2000	2000	100.0	2000	2000	100.0
Iron	anr								
Lead	2000	1920	96.0	2000	1950	97.5	2000	1960	98.0
Magnesium									
Manganese	anr								
Molybdenum									
Nickel									
Potassium									
Selenium	anr								
Silver	anr								
Sodium									
Strontium									
Thallium									
Tin	anr								
Titanium									
Vanadium									
Zinc	2000	1970	98.5	2000	1990	99.5	2000	2000	100.0

(*) Outside of QC limits
(anr) Analyte not requested

HIGH STANDARD CHECK SUMMARY

Login Number: FA23258
Account: FPMRNYR - FPM Remediations
Project: HM-AZ PBR Holloman AFB; Alamogordo, NM

File ID: SA040715M1.ICP Date Analyzed: 04/07/15 Methods: SW846 6010C
QC Limits: 95 to 105 % Recovery Run ID: MA12324 Units: ug/l

Time:		10:00	
Sample ID:	HSTD	HSTD1	
Metal	True	Results	% Rec
Aluminum	anr		
Antimony	4000	4040	101.0
Arsenic	4000	4050	101.3
Barium	anr		
Beryllium	anr		
Cadmium	anr		
Calcium			
Chromium	anr		
Cobalt	anr		
Copper	4000	4000	100.0
Iron	anr		
Lead	4000	4060	101.5
Magnesium			
Manganese	anr		
Molybdenum			
Nickel			
Potassium			
Selenium	anr		
Silver	anr		
Sodium			
Strontium			
Thallium			
Tin	anr		
Titanium			
Vanadium			
Zinc	4000	4010	100.3

(*) Outside of QC limits
(anr) Analyte not requested

LOW CALIBRATION CHECK STANDARDS SUMMARY

Login Number: FA23258
Account: FPMRNYR - FPM Remediations
Project: HM-AZ PBR Holloman AFB; Alamogordo, NM

File ID: SA040715M1.ICP Date Analyzed: 04/07/15 Methods: SW846 6010C
QC Limits: CRI 70-130% CRIA 70-130% Run ID: MA12324 Units: ug/l

Time:			10:19		16:08	
Sample ID:	CRI	CRIA	CRIA1		CRIA2	
Metal	True	True	Results	% Rec	Results	% Rec
Aluminum	400	200	anr			
Antimony	10	5.0	5.9	118.0	6.4	128.0
Arsenic	20	10	10.3	103.0	10.0	100.0
Barium	400	200	anr			
Beryllium	10	5.0	anr			
Cadmium	10	5.0	anr			
Calcium	2000	1000				
Chromium	20	10	anr			
Cobalt	100	50	anr			
Copper	50	25	27.5	110.0	27.5	110.0
Iron	600	300	anr			
Lead	10	5.0	4.7	94.0	4.6	92.0
Magnesium	10000	5000				
Manganese	30	15	anr			
Molybdenum	100	50				
Nickel	80	40				
Potassium	20000	10000				
Selenium	20	10	anr			
Silver	20	10	anr			
Sodium	20000	10000				
Strontium	20	10				
Thallium	20	10				
Tin	100	50	anr			
Titanium	20	10				
Vanadium	100	50				
Zinc	40	20	22.3	111.5	24.2	121.0

(*) Outside of QC limits
(anr) Analyte not requested

INTERFERING ELEMENT CHECK STANDARDS SUMMARY
Part 1 - ICSA and ICSAB Standards

Login Number: FA23258
Account: FPMRNYR - FPM Remediations
Project: HM-AZ PBR Holloman AFB; Alamogordo, NM

File ID: SA040715M1.ICP Date Analyzed: 04/07/15 Methods: SW846 6010C
QC Limits: 80 to 120 % Recovery Run ID: MA12324 Units: ug/l

Time:			10:25		10:33		16:12		16:17	
Sample ID:	ICSA	ICSAB	ICSA1		ICSAB1		ICSA2		ICSAB2	
Metal	True	True	Results	% Rec	Results	% Rec	Results	% Rec	Results	% Rec
Aluminum	500000	500000	509000	101.8	507000	101.4	508000	101.6	494000	98.8
Antimony		1000	0.0		1080	108.0	0.50		1050	105.0
Arsenic		1000	-0.20		1070	107.0	0.50		1050	105.0
Barium		500	-0.70		530	106.0	-0.80		521	104.2
Beryllium		500	-0.10		517	103.4	0.0		505	101.0
Cadmium		1000	0.0		946	94.6	0.10		930	93.0
Calcium	500000	500000	482000	96.4	499000	99.8	482000	96.4	481000	96.2
Chromium		500	0.30		505	101.0	1.0		492	98.4
Cobalt		500	0.10		486	97.2	0.0		478	95.6
Copper		500	0.90		550	110.0	-0.10		535	107.0
Iron	200000	200000	189000	94.5	197000	98.5	185000	92.5	188000	94.0
Lead		1000	-0.40		968	96.8	-5.8		954	95.4
Magnesium	500000	500000	495000	99.0	501000	100.2	488000	97.6	484000	96.8
Manganese		500	0.60		517	103.4	0.90		509	101.8
Molybdenum		1000	0.0		962	96.2	0.40		947	94.7
Nickel		1000	-0.20		979	97.9	-0.20		969	96.9
Potassium			58.6		82.1		466		336	
Selenium		1000	0.0		1040	104.0	-0.70		1020	102.0
Silver		1000	0.70		1030	103.0	0.60		1020	102.0
Sodium			862		903		656		587	
Strontium		1000	0.50		1060	106.0	0.60		1030	103.0
Thallium		1000	-1.1		974	97.4	2.0		955	95.5
Tin		1000	0.80		969	96.9	0.80		959	95.9
Titanium		1000	-0.50		1030	103.0	-0.30		1030	103.0
Vanadium		500	0.0		480	96.0	0.0		476	95.2
Zinc		1000	0.60		980	98.0	1.1		971	97.1

(*) Outside of QC limits
(anr) Analyte not requested

BLANK RESULTS SUMMARY
Part 2 - Method Blanks

Login Number: FA23258
Account: FPMRNYR - FPM Remediations
Project: HM-AZ PBR Holloman AFB; Alamogordo, NM

QC Batch ID: MP28752
Matrix Type: SOLID

Methods: SW846 6010C
Units: mg/kg

Prep Date: 04/03/15

Metal	RL	IDL	MDL	MB raw	final
Aluminum	10	.7	1.8		
Antimony	1.0	.05	.065	-0.080	<1.0
Arsenic	0.50	.065	.1	-0.035	<0.50
Barium	10	.05	.05		
Beryllium	0.25	.01	.025		
Cadmium	0.20	.01	.025		
Calcium	250	2.5	2.5		
Chromium	0.50	.05	.05		
Cobalt	2.5	.01	.025		
Copper	1.3	.05	.05	0.025	<1.3
Iron	15	.85	.85		
Lead	1.0	.05	.05	-0.015	<1.0
Magnesium	250	1.8	1.8		
Manganese	0.75	.025	.025		
Molybdenum	2.5	.015	.025		
Nickel	2.0	.02	.025		
Potassium	500	10	10		
Selenium	1.0	.12	.12		
Silver	0.50	.035	.041		
Sodium	500	25	25		
Strontium	0.50	.025	.025		
Thallium	0.50	.055	.055		
Tin	2.5	.045	.045		
Titanium	0.50	.025	.025		
Vanadium	2.5	.025	.025		
Zinc	1.0	.15	.15	0.025	<1.0

Associated samples MP28752: FA23258-1, FA23258-3, FA23258-5, FA23258-7, FA23258-8, FA23258-10, FA23258-12, FA23258-15, FA23258-17, FA23258-19, FA23258-21, FA23258-22, FA23258-23, FA23258-25, FA23258-27, FA23258-29, FA23258-31, FA23258-33

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: FA23258
Account: FPMRNYR - FPM Remediations
Project: HM-AZ PBR Holloman AFB; Alamogordo, NM

QC Batch ID: MP28752
Matrix Type: SOLID

Methods: SW846 6010C
Units: mg/kg

Prep Date:			04/03/15					04/03/15	
Metal	FA23258-5 Original	DUP	RPD	QC Limits	FA23258-5 Original	MS	Spikelot MPFLICP2	% Rec	QC Limits
Aluminum									
Antimony	0.0	0.0 (a)	NC	0-20	0.0	5.5 (a)	23.7	23.2N(c)	80-120
Arsenic	0.91	0.0 (a)	200.0(b)	0-20	0.91	98.1 (a)	95	102.3	80-120
Barium									
Beryllium									
Cadmium									
Calcium									
Chromium									
Cobalt									
Copper	3.2	2.9 (a)	9.8	0-20	3.2	15.0 (a)	11.9	99.4	80-120
Iron									
Lead	2.6	2.2 (a)	16.7	0-20	2.6	24.4 (a)	23.7	91.8	80-120
Magnesium									
Manganese									
Molybdenum									
Nickel									
Potassium									
Selenium									
Silver									
Sodium									
Strontium									
Thallium									
Tin									
Titanium									
Vanadium									
Zinc	11.3	10.5 (a)	7.3	0-20	11.3	34.5 (a)	23.7	97.7	80-120

Associated samples MP28752: FA23258-1, FA23258-3, FA23258-5, FA23258-7, FA23258-8, FA23258-10, FA23258-12, FA23258-15, FA23258-17, FA23258-19, FA23258-21, FA23258-22, FA23258-23, FA23258-25, FA23258-27, FA23258-29, FA23258-31, FA23258-33

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits
(anr) Analyte not requested
(a) Elevated reporting limit(s) due to matrix interference.
(b) RPD acceptable due to low duplicate and sample concentrations.
(c) Spike recovery indicates possible matrix interference and/or sample non-homogeneity.

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: FA23258
Account: FPMRNYR - FPM Remediations
Project: HM-AZ PBR Holloman AFB; Alamogordo, NM

QC Batch ID: MP28752 Methods: SW846 6010C
Matrix Type: SOLID Units: mg/kg

Prep Date: 04/03/15

Metal	FA23258-5 Original	MSD	Spikelot MPFLICP2	% Rec	MSD RPD	QC Limit
Aluminum						
Antimony	0.0	5.6 (a)	23.6	23.8N(b)	1.8	20
Arsenic	0.91	99.5 (a)	94.2	104.6	1.4	20
Barium						
Beryllium						
Cadmium						
Calcium						
Chromium						
Cobalt						
Copper	3.2	15.3 (a)	11.8	102.7	2.0	20
Iron						
Lead	2.6	24.2 (a)	23.6	91.7	0.8	20
Magnesium						
Manganese						
Molybdenum						
Nickel						
Potassium						
Selenium						
Silver						
Sodium						
Strontium						
Thallium						
Tin						
Titanium						
Vanadium						
Zinc	11.3	34.6 (a)	23.6	98.9	0.3	20

Associated samples MP28752: FA23258-1, FA23258-3, FA23258-5, FA23258-7, FA23258-8, FA23258-10, FA23258-12, FA23258-15, FA23258-17, FA23258-19, FA23258-21, FA23258-22, FA23258-23, FA23258-25, FA23258-27, FA23258-29, FA23258-31, FA23258-33

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits
(anr) Analyte not requested
(a) Elevated reporting limit(s) due to matrix interference.
(b) Spike recovery indicates possible matrix interference and/or sample non-homogeneity.

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: FA23258
Account: FPMRNYR - FPM Remediations
Project: HM-AZ PBR Holloman AFB; Alamogordo, NM

QC Batch ID: MP28752
Matrix Type: SOLID

Methods: SW846 6010C
Units: mg/kg

Prep Date: 04/03/15

Metal	BSP Result	Spikelot MPFLICP2	% Rec	QC Limits
Aluminum				
Antimony	24.9	25	99.6	80-120
Arsenic	101	100	101.0	80-120
Barium				
Beryllium				
Cadmium				
Calcium				
Chromium				
Cobalt				
Copper	13.1	12.5	104.8	80-120
Iron				
Lead	24.2	25	96.8	80-120
Magnesium				
Manganese				
Molybdenum				
Nickel				
Potassium				
Selenium				
Silver				
Sodium				
Strontium				
Thallium				
Tin				
Titanium				
Vanadium				
Zinc	25.1	25	100.4	80-120

Associated samples MP28752: FA23258-1, FA23258-3, FA23258-5, FA23258-7, FA23258-8, FA23258-10, FA23258-12, FA23258-15, FA23258-17, FA23258-19, FA23258-21, FA23258-22, FA23258-23, FA23258-25, FA23258-27, FA23258-29, FA23258-31, FA23258-33

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

SERIAL DILUTION RESULTS SUMMARY

Login Number: FA23258
Account: FPMRNYR - FPM Remediations
Project: HM-AZ PBR Holloman AFB; Alamogordo, NM

QC Batch ID: MP28752
Matrix Type: SOLID

Methods: SW846 6010C
Units: ug/l

Prep Date: 04/03/15

Metal	FA23258-5 Original	SDL 10:50%	DIF	QC Limits
Aluminum				
Antimony	0.00	0.00	NC	0-10
Arsenic	18.5	0.00	100.0(a)	0-10
Barium				
Beryllium				
Cadmium				
Calcium				
Chromium				
Cobalt				
Copper	64.8	67.7	4.5	0-10
Iron				
Lead	52.5	109	106.7(a)	0-10
Magnesium				
Manganese				
Molybdenum				
Nickel				
Potassium				
Selenium				
Silver				
Sodium				
Strontium				
Thallium				
Tin				
Titanium				
Vanadium				
Zinc	230	323	40.4 (a)	0-10

Associated samples MP28752: FA23258-1, FA23258-3, FA23258-5, FA23258-7, FA23258-8, FA23258-10, FA23258-12, FA23258-15, FA23258-17, FA23258-19, FA23258-21, FA23258-22, FA23258-23, FA23258-25, FA23258-27, FA23258-29, FA23258-31, FA23258-33

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested
(a) Percent difference acceptable due to low initial sample concentration (< 50 times IDL).

POST DIGESTATE SPIKE SUMMARY

Login Number: FA23258
Account: FPMRNYR - FPM Remediations
Project: HM-AZ PBR Holloman AFB; Alamogordo, NM

QC Batch ID: MP28752
Matrix Type: SOLID

Methods: SW846 6010C
Units: ug/l

Prep Date: 04/03/15

Metal	Sample ml	Final ml	FA23258-5 Raw	Corr.**	PS ug/l	Spike ml	Spike ug/ml	Spike ug/l	% Rec	QC Limits
Aluminum										
Antimony	9.8	10			87.6	0.2	5	100	87.6	80-120
Arsenic	9.8	10	18.5	18.13	128.5	0.2	5	100	110.4	80-120
Barium										
Beryllium										
Cadmium										
Calcium										
Chromium										
Cobalt										
Copper	9.8	10	64.8	63.504	171.9	0.2	5	100	108.4	80-120
Iron										
Lead	9.8	10	52.5	51.45	99.7	0.2	2.5	50	96.5	80-120
Magnesium										
Manganese										
Molybdenum										
Nickel										
Potassium										
Selenium										
Silver										
Sodium										
Strontium										
Thallium										
Tin										
Titanium										
Vanadium										
Zinc	9.8	10	230	225.4	489.4	0.2	12.5	250	105.6	80-120

Associated samples MP28752: FA23258-1, FA23258-3, FA23258-5, FA23258-7, FA23258-8, FA23258-10, FA23258-12, FA23258-15, FA23258-17, FA23258-19, FA23258-21, FA23258-22, FA23258-23, FA23258-25, FA23258-27, FA23258-29, FA23258-31, FA23258-33

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(**) Corr. sample result = Raw * (sample volume / final volume)
(anr) Analyte not requested

BLANK RESULTS SUMMARY
Part 2 - Method Blanks

Login Number: FA23258
Account: FPMRNYR - FPM Remediations
Project: HM-AZ PBR Holloman AFB; Alamogordo, NM

QC Batch ID: MP28755
Matrix Type: SOLID

Methods: SW846 6010C
Units: mg/kg

Prep Date: 04/03/15

Metal	RL	IDL	MDL	MB raw	final
Aluminum	10	.7	1.8		
Antimony	1.0	.05	.065	0.035	<1.0
Arsenic	0.50	.065	.1	-0.015	<0.50
Barium	10	.05	.05		
Beryllium	0.25	.01	.025		
Cadmium	0.20	.01	.025		
Calcium	250	2.5	2.5		
Chromium	0.50	.05	.05		
Cobalt	2.5	.01	.025		
Copper	1.3	.05	.05	0.035	<1.3
Iron	15	.85	.85		
Lead	1.0	.05	.05	0.025	<1.0
Magnesium	250	1.8	1.8		
Manganese	0.75	.025	.025		
Molybdenum	2.5	.015	.025		
Nickel	2.0	.02	.025		
Potassium	500	10	10		
Selenium	1.0	.12	.12		
Silver	0.50	.035	.041		
Sodium	500	25	25		
Strontium	0.50	.025	.025		
Thallium	0.50	.055	.055		
Tin	2.5	.045	.045		
Titanium	0.50	.025	.025		
Vanadium	2.5	.025	.025		
Zinc	1.0	.15	.15	0.085	<1.0

Associated samples MP28755: FA23258-35, FA23258-37, FA23258-39, FA23258-41

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: FA23258
Account: FPMRNYR - FPM Remediations
Project: HM-AZ PBR Holloman AFB; Alamogordo, NM

QC Batch ID: MP28755
Matrix Type: SOLID

Methods: SW846 6010C
Units: mg/kg

Prep Date:			04/03/15					04/03/15	
Metal	FA23275-8 Original	DUP	RPD	QC Limits	FA23275-8 Original	MS	Spikelot MPFLICP2	% Rec	QC Limits
Aluminum									
Antimony	0.0	0.0	NC	0-20	0.0	6.3	23	27.4N(b)	80-120
Arsenic	1.8	2.0	10.5	0-20	1.8	81.8	92.1	86.9	80-120
Barium	anr								
Beryllium	anr								
Cadmium	anr								
Calcium									
Chromium									
Cobalt									
Copper	3.7	4.2	12.7	0-20	3.7	15.0	11.5	98.2	80-120
Iron									
Lead	3.8	4.2	10.0	0-20	3.8	26.1	23	96.9	80-120
Magnesium									
Manganese									
Molybdenum									
Nickel	anr								
Potassium									
Selenium									
Silver									
Sodium									
Strontium									
Thallium	anr								
Tin									
Titanium									
Vanadium									
Zinc	8.7	10.8	21.5*(a)	0-20	8.7	29.2	23	89.1	80-120

Associated samples MP28755: FA23258-35, FA23258-37, FA23258-39, FA23258-41

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits
(anr) Analyte not requested
(a) High RPD due to possible sample non-homogeneity.
(b) Spike recovery indicates possible matrix interference and/or sample non-homogeneity.

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: FA23258
Account: FPMRNYR - FPM Remediations
Project: HM-AZ PBR Holloman AFB; Alamogordo, NM

QC Batch ID: MP28755
Matrix Type: SOLID

Methods: SW846 6010C
Units: mg/kg

Prep Date: 04/03/15

Metal	FA23275-8 Original	MSD	Spikelot MPFLICP2	% Rec	MSD RPD	QC Limit
Aluminum						
Antimony	0.0	7.1	26.3	27.0N(a)	11.9	20
Arsenic	1.8	91.4	105	85.1	11.1	20
Barium	anr					
Beryllium	anr					
Cadmium	anr					
Calcium						
Chromium						
Cobalt						
Copper	3.7	16.8	13.2	99.6	11.3	20
Iron						
Lead	3.8	29.4	26.3	97.3	11.9	20
Magnesium						
Manganese						
Molybdenum						
Nickel	anr					
Potassium						
Selenium						
Silver						
Sodium						
Strontium						
Thallium	anr					
Tin						
Titanium						
Vanadium						
Zinc	8.7	32.7	26.3	91.2	11.3	20

Associated samples MP28755: FA23258-35, FA23258-37, FA23258-39, FA23258-41

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits
(anr) Analyte not requested
(a) Spike recovery indicates possible matrix interference and/or sample non-homogeneity.

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: FA23258
Account: FPMRNYR - FPM Remediations
Project: HM-AZ PBR Holloman AFB; Alamogordo, NM

QC Batch ID: MP28755
Matrix Type: SOLID

Methods: SW846 6010C
Units: mg/kg

Prep Date: 04/03/15

Metal	BSP Result	Spikelot MPFLICP2	% Rec	QC Limits
Aluminum				
Antimony	24.9	25	99.6	80-120
Arsenic	100	100	100.0	80-120
Barium	anr			
Beryllium	anr			
Cadmium	anr			
Calcium				
Chromium				
Cobalt				
Copper	13.1	12.5	104.8	80-120
Iron				
Lead	24.5	25	98.0	80-120
Magnesium				
Manganese				
Molybdenum				
Nickel	anr			
Potassium				
Selenium				
Silver				
Sodium				
Strontium				
Thallium	anr			
Tin				
Titanium				
Vanadium				
Zinc	25.5	25	102.0	80-120

Associated samples MP28755: FA23258-35, FA23258-37, FA23258-39, FA23258-41

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

SERIAL DILUTION RESULTS SUMMARY

Login Number: FA23258
Account: FPMRNYR - FPM Remediations
Project: HM-AZ PBR Holloman AFB; Alamogordo, NM

QC Batch ID: MP28755
Matrix Type: SOLID

Methods: SW846 6010C
Units: ug/l

Prep Date: 04/03/15

Metal	FA23275-8 Original	SDL 1:5	%DIF	QC Limits
Aluminum				
Antimony	0.00	0.00	NC	0-10
Arsenic	40.0	50.3	25.8 (a)	0-10
Barium	anr			
Beryllium	anr			
Cadmium	anr			
Calcium				
Chromium				
Cobalt				
Copper	84.2	99.1	17.7*(b)	0-10
Iron				
Lead	86.4	82.9	4.1	0-10
Magnesium				
Manganese				
Molybdenum				
Nickel	anr			
Potassium				
Selenium				
Silver				
Sodium				
Strontium				
Thallium	anr			
Tin				
Titanium				
Vanadium				
Zinc	198	245	23.7*(b)	0-10

Associated samples MP28755: FA23258-35, FA23258-37, FA23258-39, FA23258-41

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested
(a) Percent difference acceptable due to low initial sample concentration (< 50 times IDL).
(b) Serial dilution indicates possible matrix interference.

POST DIGESTATE SPIKE SUMMARY

Login Number: FA23258
Account: FPMRNYR - FPM Remediations
Project: HM-AZ PBR Holloman AFB; Alamogordo, NM

QC Batch ID: MP28755
Matrix Type: SOLID

Methods: SW846 6010C
Units: ug/l

Prep Date: 04/03/15

Metal	Sample ml	Final ml	FA23275-8 Raw	Corr.**	PS ug/l	Spike ml	Spike ug/ml	Spike ug/l	% Rec	QC Limits
Aluminum										
Antimony	9.8	10			85	0.2	5	100	85.0	80-120
Arsenic	9.8	10	40	39.2	129.3	0.2	5	100	90.1	80-120
Barium										
Beryllium										
Cadmium										
Calcium										
Chromium										
Cobalt										
Copper	9.8	10	84.2	82.516	180.3	0.2	5	100	97.8	80-120
Iron										
Lead	9.8	10	86.4	84.672	134.3	0.2	2.5	50	99.3	80-120
Magnesium										
Manganese										
Molybdenum										
Nickel										
Potassium										
Selenium										
Silver										
Sodium										
Strontium										
Thallium										
Tin										
Titanium										
Vanadium										
Zinc	9.8	10	197.8	193.844	420.8	0.2	12.5	250	90.8	80-120

Associated samples MP28755: FA23258-35, FA23258-37, FA23258-39, FA23258-41

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(**) Corr. sample result = Raw * (sample volume / final volume)
(anr) Analyte not requested

BLANK RESULTS SUMMARY
Part 2 - Method Blanks

Login Number: FA23258
Account: FPMRNYR - FPM Remediations
Project: HM-AZ PBR Holloman AFB; Alamogordo, NM

QC Batch ID: MP28764
Matrix Type: AQUEOUS

Methods: SW846 6010C
Units: ug/l

Prep Date: 04/07/15

Metal	RL	IDL	MDL	MB raw	final
Aluminum	200	14	14		
Antimony	6.0	1	1	1.2	<6.0
Arsenic	10	1.3	1.3	-0.40	<10
Barium	200	1	1		
Beryllium	4.0	.2	.2		
Cadmium	5.0	.2	.2		
Calcium	1000	50	50		
Chromium	10	1	1		
Cobalt	50	.2	.2		
Copper	25	1	1	0.0	<25
Iron	300	17	17		
Lead	5.0	1	1.1	-0.80	<5.0
Magnesium	5000	35	35		
Manganese	15	.5	1		
Molybdenum	50	.3	.3		
Nickel	40	.4	.4		
Potassium	10000	200	200		
Selenium	10	2.4	2.9		
Silver	10	.7	.7		
Sodium	10000	500	500		
Strontium	10	.5	.5		
Thallium	10	1.1	1.4		
Tin	50	.9	1		
Titanium	10	.5	1		
Vanadium	50	.5	.6		
Zinc	20	3	4.4	0.10	<20

Associated samples MP28764: FA23258-14

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: FA23258
Account: FPMRNYR - FPM Remediations
Project: HM-AZ PBR Holloman AFB; Alamogordo, NM

QC Batch ID: MP28764
Matrix Type: AQUEOUS

Methods: SW846 6010C
Units: ug/l

Prep Date:			04/07/15					04/07/15	
Metal	FA23126-1 Original	DUP	RPD	QC Limits	FA23126-1 Original	MS	Spikelot MPFLICP2	% Rec	QC Limits
Aluminum									
Antimony	1.5	1.1	30.8 (a)	0-20	1.5	556	500	110.9	80-120
Arsenic	1.7	1.7	0.0	0-20	1.7	2240	2000	111.9	80-120
Barium									
Beryllium									
Cadmium									
Calcium									
Chromium									
Cobalt									
Copper	0.0	0.0	NC	0-20	0.0	278	250	111.2	80-120
Iron	anr								
Lead	1.1	0.0	200.0(a)	0-20	1.1	536	500	107.0	80-120
Magnesium									
Manganese									
Molybdenum									
Nickel									
Potassium									
Selenium									
Silver									
Sodium									
Strontium									
Thallium									
Tin									
Titanium									
Vanadium									
Zinc	6.4	6.4	0.0	0-20	6.4	548	500	108.3	80-120

Associated samples MP28764: FA23258-14

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits
(anr) Analyte not requested
(a) RPD acceptable due to low duplicate and sample concentrations.

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: FA23258
Account: FPMRNYR - FPM Remediations
Project: HM-AZ PBR Holloman AFB; Alamogordo, NM

QC Batch ID: MP28764
Matrix Type: AQUEOUS

Methods: SW846 6010C
Units: ug/l

Prep Date: 04/07/15

Metal	FA23126-1 Original	MSD	Spikelot MPFLICP2	% Rec	MSD RPD	QC Limit
Aluminum						
Antimony	1.5	553	500	110.3	0.5	20
Arsenic	1.7	2240	2000	111.9	0.0	20
Barium						
Beryllium						
Cadmium						
Calcium						
Chromium						
Cobalt						
Copper	0.0	279	250	111.6	0.4	20
Iron	anr					
Lead	1.1	536	500	107.0	0.0	20
Magnesium						
Manganese						
Molybdenum						
Nickel						
Potassium						
Selenium						
Silver						
Sodium						
Strontium						
Thallium						
Tin						
Titanium						
Vanadium						
Zinc	6.4	549	500	108.5	0.2	20

Associated samples MP28764: FA23258-14

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits
(anr) Analyte not requested

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: FA23258
Account: FPMRNYR - FPM Remediations
Project: HM-AZ PBR Holloman AFB; Alamogordo, NM

QC Batch ID: MP28764
Matrix Type: AQUEOUS

Methods: SW846 6010C
Units: ug/l

Prep Date: 04/07/15

Metal	BSP Result	Spikelot MPFLICP2	% Rec	QC Limits
Aluminum				
Antimony	541	500	108.2	80-120
Arsenic	2170	2000	108.5	80-120
Barium				
Beryllium				
Cadmium				
Calcium				
Chromium				
Cobalt				
Copper	277	250	110.8	80-120
Iron	anr			
Lead	528	500	105.6	80-120
Magnesium				
Manganese				
Molybdenum				
Nickel				
Potassium				
Selenium				
Silver				
Sodium				
Strontium				
Thallium				
Tin				
Titanium				
Vanadium				
Zinc	540	500	108.0	80-120

Associated samples MP28764: FA23258-14

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

SERIAL DILUTION RESULTS SUMMARY

Login Number: FA23258
Account: FPMRNYR - FPM Remediations
Project: HM-AZ PBR Holloman AFB; Alamogordo, NM

QC Batch ID: MP28764
Matrix Type: AQUEOUS

Methods: SW846 6010C
Units: ug/l

Prep Date: 04/07/15

Metal	FA23126-1 Original	SDL 1:5	%DIF	QC Limits
Aluminum				
Antimony	1.50	0.00	100.0(a)	0-10
Arsenic	1.70	0.00	100.0(a)	0-10
Barium				
Beryllium				
Cadmium				
Calcium				
Chromium				
Cobalt				
Copper	0.00	0.00	NC	0-10
Iron	anr			
Lead	1.10	0.00	100.0(a)	0-10
Magnesium				
Manganese				
Molybdenum				
Nickel				
Potassium				
Selenium				
Silver				
Sodium				
Strontium				
Thallium				
Tin				
Titanium				
Vanadium				
Zinc	6.40	0.00	100.0(a)	0-10

Associated samples MP28764: FA23258-14

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested
(a) Percent difference acceptable due to low initial sample concentration (< 50 times IDL).

POST DIGESTATE SPIKE SUMMARY

Login Number: FA23258
Account: FPMRNYR - FPM Remediations
Project: HM-AZ PBR Holloman AFB; Alamogordo, NM

QC Batch ID: MP28764
Matrix Type: AQUEOUS

Methods: SW846 6010C
Units: ug/l

Prep Date: 04/07/15

Metal	Sample ml	Final ml	FA23126-1 Raw	Corr.**	PS ug/l	Spike ml	Spike ug/ml	Spike ug/l	% Rec	QC Limits
Aluminum										
Antimony	9.8	10	1.5	1.47	114.3	0.2	5	100	112.8	80-120
Arsenic	9.8	10	1.7	1.666	115.4	0.2	5	100	113.7	80-120
Barium										
Beryllium										
Cadmium										
Calcium										
Chromium										
Cobalt										
Copper	9.8	10			113	0.2	5	100	113.0	80-120
Iron										
Lead	9.8	10	1.1	1.078	55.3	0.2	2.5	50	108.4	80-120
Magnesium										
Manganese										
Molybdenum										
Nickel										
Potassium										
Selenium										
Silver										
Sodium										
Strontium										
Thallium										
Tin										
Titanium										
Vanadium										
Zinc	9.8	10	6.4	6.272	286.8	0.2	12.5	250	112.2	80-120

Associated samples MP28764: FA23258-14

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(**) Corr. sample result = Raw * (sample volume / final volume)
(anr) Analyte not requested

Instrument Detection Limits

Job Number: FA23258
Account: FPMRNYR FPM Remediations
Project: HM-AZ PBR Holloman AFB; Alamogordo, NM

Instrument ID: SSTRACE1 **Effective Date:** 01/27/15

Analyte	IDL ug/l
Aluminum	14
Antimony	1
Arsenic	1.3
Barium	1
Beryllium	.2
Cadmium	.2
Calcium	50
Chromium	1
Cobalt	.2
Copper	1
Iron	17
Lead	1
Magnesium	35
Manganese	.5
Molybdenum	.3
Nickel	.4
Potassium	200
Selenium	2.4
Silicon	5
Silver	.7
Sodium	500
Strontium	.5
Sulfur	5
Thallium	1.1
Tin	.9
Titanium	.5
Vanadium	.5
Zinc	3

The above applies to the following instrument runs:
MA12317,MA12324

Instrument Detection Limits

Job Number: FA23258
Account: FPMRNYR FPM Remediations
Project: HM-AZ PBR Holloman AFB; Alamogordo, NM

Instrument ID: SSTRACE2 **Effective Date:** 01/27/15

Analyte	IDL ug/l
Aluminum	14
Antimony	1
Arsenic	1.3
Barium	1
Beryllium	.2
Cadmium	.2
Calcium	50
Chromium	1
Cobalt	.2
Copper	1
Iron	17
Lead	1
Magnesium	35
Manganese	.5
Molybdenum	.3
Nickel	.4
Potassium	200
Selenium	2.4
Silicon	5
Silver	.7
Sodium	500
Strontium	.5
Sulfur	5
Thallium	1.1
Tin	.9
Titanium	.5
Vanadium	.5
Zinc	3

The above applies to the following instrument runs:
MA12318,MA12320

Instrument Linear Ranges

Job Number: FA23258
Account: FPMRNYR FPM Remediations
Project: HM-AZ PBR Holloman AFB; Alamogordo, NM

Instrument ID: SSTRACE1 **Effective Date:** 08/13/13

Analyte	Linear Range ug/l
Aluminum	500000
Antimony	10000
Arsenic	10000
Barium	10000
Beryllium	10000
Cadmium	10000
Calcium	500000
Chromium	10000
Cobalt	10000
Copper	10000
Iron	500000
Lead	10000
Magnesium	500000
Manganese	10000
Molybdenum	10000
Nickel	10000
Potassium	80000
Selenium	10000
Silver	1000
Sodium	80000
Strontium	10000
Sulfur	10000
Thallium	10000
Tin	10000
Titanium	10000
Vanadium	10000
Zinc	10000

The above applies to the following instrument runs:
MA12317,MA12324

Instrument Linear Ranges

Job Number: FA23258
Account: FPMRNYR FPM Remediations
Project: HM-AZ PBR Holloman AFB; Alamogordo, NM

Instrument ID: SSTRACE2 **Effective Date:** 10/22/10

Analyte	Linear Range ug/l
Aluminum	500000
Antimony	10000
Arsenic	10000
Barium	10000
Beryllium	10000
Cadmium	10000
Calcium	500000
Chromium	10000
Cobalt	10000
Copper	10000
Iron	500000
Lead	10000
Magnesium	500000
Manganese	10000
Molybdenum	10000
Nickel	10000
Potassium	80000
Selenium	10000
Silver	1000
Sodium	80000
Strontium	10000
Thallium	10000
Tin	10000
Titanium	10000
Vanadium	10000
Zinc	10000

The above applies to the following instrument runs:
MA12318,MA12320

Southeast ACCUTEST LABORATORIES

Metals Analysis

Raw Data

Zoom In
Zoom Out

Sample Name: Blank Acquired: 4/3/2015 7:16:32 Type: Cal
Method: 60102007_042011(v209) Mode: IR Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.0028	.0077	-.0003	-.0052	.0012	.0087	-.0016	-.0007	-.0005
Stddev	.0003	.0026	.0001	.0048	.0021	.0015	.0003	.0001	.0002
%RSD	11.09	34.14	30.22	92.74	181.4	16.96	20.71	18.70	47.93
#1	.0025	.0056	-.0002	.0003	.0010	.0092	-.0014	-.0006	-.0004
#2	.0031	.0106	-.0003	-.0084	-.0009	.0100	-.0014	-.0008	-.0004
#3	.0028	.0069	-.0002	-.0076	.0033	.0071	-.0020	-.0007	-.0008

Elem	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.0025	.0030	-.0208	-.0003	.0008	.0013	-.0608	.0016	.0002
Stddev	.0003	.0013	.0034	.0005	.0000	.0002	.0073	.0002	.0006
%RSD	10.92	44.25	16.29	184.8	6.407	12.38	12.03	13.58	289.5
#1	.0023	.0032	-.0185	-.0008	.0008	.0014	-.0556	.0017	.0004
#2	.0025	.0042	-.0193	.0001	.0008	.0014	-.0575	.0014	.0008
#3	.0028	.0016	-.0247	.0000	.0007	.0011	-.0691	.0018	-.0005

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.0017	-.0008	.0037	.0008	.0040	.0032	-.0030	-.0010	.0010
Stddev	.0003	.0003	.0001	.0002	.0013	.0001	.0001	.0002	.0001
%RSD	17.01	38.62	1.702	22.94	33.52	2.777	4.065	19.94	13.55
#1	.0014	-.0012	.0038	.0011	.0036	.0032	-.0030	-.0008	.0011
#2	.0018	-.0006	.0037	.0007	.0054	.0033	-.0031	-.0010	.0010
#3	.0019	-.0006	.0036	.0008	.0029	.0032	-.0029	-.0012	.0008

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3763.2	8461.0	56554.	2412.4
Stddev	3.5	13.7	438.	42.5
%RSD	.09365	.16194	.77428	1.7632
#1	3762.9	8470.9	56103.	2419.6
#2	3766.9	8466.7	56583.	2450.9
#3	3759.9	8445.4	56977.	2366.8

Zoom In
Zoom Out

Sample Name: LowStd Acquired: 4/3/2015 7:19:58 Type: Cal
Method: 60102007_042011(v209) Mode: IR Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.0346	1.669	.0790	4.063	4.217	2.577	2.386	1.184	.2534	.3241
Stddev	.0003	.007	.0003	.009	.003	.013	.006	.002	.0005	.0007
%RSD	.7875	.4303	.3793	.2144	.0707	.5068	.2355	.1957	.2110	.2273
#1	.0346	1.661	.0793	4.066	4.215	2.578	2.389	1.184	.2531	.3243
#2	.0343	1.674	.0787	4.053	4.216	2.564	2.379	1.181	.2531	.3233
#3	.0348	1.674	.0789	4.070	4.220	2.590	2.389	1.186	.2540	.3247

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1.683	.9629	.3404	1.325	.4930	3.055	.6723	.4454	.0916	.0604
Stddev	.003	.0152	.0008	.001	.0007	.017	.0011	.0009	.0004	.0004
%RSD	.2035	1.576	.2361	.0914	.1407	.5574	.1637	.2127	.4070	.6723
#1	1.682	.9604	.3411	1.325	.4930	3.049	.6727	.4448	.0914	.0604
#2	1.687	.9492	.3405	1.324	.4924	3.041	.6711	.4449	.0914	.0600
#3	1.681	.9792	.3395	1.326	.4938	3.074	.6732	.4465	.0921	.0608

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.2301	.2405	6.335	.7925	.1497	.2942	1.638
Stddev	.0232	.0001	.021	.0011	.0006	.0010	.003
%RSD	10.07	.0216	.3385	.1435	.4062	.3430	.1759
#1	.2168	.2406	6.331	.7929	.1496	.2946	1.638
#2	.2568	.2405	6.317	.7912	.1492	.2930	1.636
#3	.2166	.2405	6.359	.7933	.1504	.2949	1.641

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3506.7	8300.9	55409.	2422.4
Stddev	16.0	35.2	124.	13.7
%RSD	.45485	.42377	.22451	.56631
#1	3518.8	8315.6	55344.	2408.9
#2	3512.5	8326.3	55552.	2421.9
#3	3488.6	8260.7	55331.	2436.3

Zoom In
Zoom Out

Sample Name: MidStd Acquired: 4/3/2015 7:23:16 Type: Cal
Method: 60102007_042011(v209) Mode: IR Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.1308	7.161	.3379	16.81	17.46	11.03	9.913	4.889	1.053	1.323
Stddev	.0008	.079	.0006	.18	.19	.14	.012	.004	.002	.004
%RSD	.6357	1.099	.1777	1.093	1.100	1.232	.1223	.0706	.2273	.2657
#1	.1315	7.072	.3373	16.60	17.25	10.89	9.901	4.885	1.056	1.327
#2	.1299	7.189	.3378	16.86	17.51	11.03	9.911	4.891	1.052	1.321
#3	.1311	7.222	.3385	16.96	17.63	11.16	9.925	4.890	1.051	1.321

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	7.336	4.293	1.466	5.456	1.997	13.23	2.761	1.901	.3803	.2582
Stddev	.079	.051	.014	.045	.003	.15	.002	.004	.0004	.0008
%RSD	1.072	1.195	.9510	.8289	.1600	1.141	.0569	.1938	.1132	.3077
#1	7.246	4.236	1.450	5.489	1.993	13.07	2.760	1.905	.3803	.2574
#2	7.371	4.305	1.472	5.473	1.999	13.24	2.761	1.898	.3807	.2584
#3	7.391	4.337	1.476	5.404	1.998	13.37	2.763	1.899	.3799	.2589

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.5671	.9502	25.19	3.196	.6384	1.183	6.780
Stddev	.0006	.0007	.27	.008	.0006	.004	.001
%RSD	.1109	.0779	1.084	.2629	.0983	.3760	.0184
#1	.5668	.9499	24.87	3.206	.6391	1.188	6.778
#2	.5667	.9496	25.30	3.194	.6379	1.181	6.780
#3	.5678	.9510	25.38	3.189	.6381	1.179	6.781

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3155.2	7843.7	52269.	2341.7
Stddev	9.6	29.8	302.	37.4
%RSD	.30509	.38046	.57796	1.5975
#1	3147.3	7846.0	51923.	2379.7
#2	3165.9	7872.4	52480.	2340.5
#3	3152.4	7812.8	52404.	2304.9

Zoom In
Zoom Out

Sample Name: HighStd Acquired: 4/3/2015 7:26:41 Type: Cal
Method: 60102007_042011(v209) Mode: IR Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.2605	14.13	.6744	33.28	34.14	21.69	19.40	9.556	2.069	2.601
Stddev	.0006	.08	.0013	.24	.21	.14	.01	.006	.004	.004
%RSD	.2399	.5551	.1933	.7198	.6254	.6624	.0747	.0679	.1987	.1647
#1	.2598	14.21	.6730	33.51	34.34	21.85	19.41	9.562	2.065	2.597
#2	.2611	14.05	.6745	33.03	33.91	21.58	19.39	9.549	2.073	2.600
#3	.2606	14.12	.6756	33.31	34.15	21.64	19.42	9.558	2.069	2.605

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	14.32	8.481	2.888	10.42	3.911	25.91	5.371	3.811	.7569	.5137
Stddev	.09	.061	.021	.20	.004	.17	.007	.009	.0005	.0004
%RSD	.6291	.7205	.7354	1.881	.0985	.6707	.1391	.2442	.0633	.0735
#1	14.41	8.547	2.909	10.20	3.915	26.11	5.376	3.814	.7564	.5140
#2	14.24	8.427	2.866	10.50	3.907	25.78	5.363	3.800	.7572	.5133
#3	14.30	8.469	2.889	10.57	3.912	25.85	5.375	3.818	.7572	.5139

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.9955	1.865	49.49	6.173	1.257	2.363	13.23
Stddev	.0005	.003	.37	.005	.003	.003	.02
%RSD	.0518	.1649	.7380	.0797	.2205	.1360	.1572
#1	.9958	1.867	49.87	6.174	1.260	2.360	13.24
#2	.9949	1.862	49.14	6.168	1.254	2.362	13.21
#3	.9958	1.867	49.46	6.178	1.258	2.366	13.25

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2991.3	7647.9	51189.	2290.5
Stddev	10.9	26.8	280.	14.9
%RSD	.36600	.35078	.54742	.65031
#1	2994.5	7656.8	51484.	2274.9
#2	3000.3	7669.2	51156.	2292.2
#3	2979.1	7617.8	50926.	2304.5

Zoom In
Zoom Out

Sample Name: HSTD Acquired: 4/3/2015 7:30:31 Type: QC
Method: 60102007_042011(v209) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4996	79.12	4.089	3.929	3.897	78.80	4.042	4.019	3.987	3.959
Stddev	.0006	.55	.012	.022	.017	.36	.006	.005	.004	.004
%RSD	.1277	.6917	.2843	.5568	.4360	.4588	.1612	.1353	.1009	.0940
#1	.5002	79.49	4.098	3.946	3.909	79.05	4.050	4.025	3.984	3.963
#2	.4997	78.49	4.076	3.904	3.878	78.39	4.038	4.016	3.985	3.956
#3	.4989	79.38	4.094	3.937	3.905	78.97	4.038	4.015	3.991	3.959
Check ?	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass
Value										
Range										

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	79.17	78.93	78.64	3.941	4.017	78.11	3.997	4.057	4.071	4.072
Stddev	.47	.46	.48	.065	.009	.30	.003	.011	.009	.010
%RSD	.5909	.5770	.6083	1.640	.2270	.3788	.0692	.2789	.2103	.2359
#1	79.39	79.30	78.90	4.009	4.028	78.30	3.999	4.061	4.080	4.080
#2	78.63	78.42	78.09	3.881	4.012	77.77	3.998	4.044	4.063	4.073
#3	79.48	79.06	78.94	3.933	4.012	78.26	3.994	4.066	4.071	4.061
Check ?	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass
Value										
Range										

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	3.665	4.013	3.907	3.894	4.014	3.974	4.015
Stddev	.007	.003	.019	.022	.007	.002	.004
%RSD	.1804	.0797	.4843	.5757	.1633	.0567	.0871
#1	3.672	4.016	3.918	3.919	4.021	3.977	4.019
#2	3.661	4.013	3.885	3.887	4.013	3.973	4.014
#3	3.661	4.010	3.917	3.876	4.009	3.972	4.013
Check ?	None	Chk	Pass	Chk	Pass	Chk	Pass
Value							
Range							

Zoom In
Zoom Out

Sample Name: HSTD Acquired: 4/3/2015 7:30:31 Type: QC
Method: 60102007_042011(v209) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2969.9	7591.3	51307.	2307.6
Stddev	10.1	8.7	227.	14.4
%RSD	.34099	.11470	.44201	.62365
#1	2968.8	7593.0	51045.	2295.7
#2	2980.5	7599.0	51441.	2323.6
#3	2960.3	7581.8	51434.	2303.4

Zoom In
Zoom Out

Sample Name: ICV Acquired: 4/3/2015 7:34:11 Type: QC
Method: 60102007_042011(v209) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2481	39.54	2.023	1.971	1.953	39.39	2.042	2.024	2.010	1.991
Stddev	.0013	.10	.015	.001	.007	.12	.013	.012	.007	.006
%RSD	.5239	.2514	.7543	.0633	.3542	.3060	.6507	.5936	.3539	.3116
#1	.2496	39.65	2.008	1.972	1.957	39.51	2.033	2.018	2.013	1.992
#2	.2470	39.47	2.022	1.969	1.946	39.27	2.036	2.017	2.016	1.996
#3	.2478	39.50	2.038	1.972	1.958	39.38	2.057	2.038	2.002	1.984
Check ?	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass
Value										
Range										

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	40.06	39.55	39.63	1.985	2.022	39.32	2.015	1.986	2.015	2.027
Stddev	.12	.21	.10	.033	.011	.22	.012	.014	.010	.012
%RSD	.2983	.5258	.2480	1.635	.5464	.5548	.6049	.7074	.4777	.6013
#1	40.12	39.77	39.59	1.969	2.015	39.50	2.010	1.982	2.008	2.021
#2	39.92	39.35	39.56	2.022	2.016	39.07	2.007	1.974	2.012	2.020
#3	40.13	39.54	39.74	1.964	2.034	39.38	2.029	2.002	2.026	2.041
Check ?	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass
Value										
Range										

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.061	2.012	1.957	2.002	1.997	1.960	2.024
Stddev	.010	.012	.003	.004	.021	.011	.013
%RSD	.5013	.5857	.1652	.2216	1.038	.5475	.6493
#1	2.054	2.005	1.961	2.005	1.987	1.961	2.017
#2	2.056	2.005	1.954	2.004	1.983	1.970	2.015
#3	2.072	2.025	1.957	1.997	2.020	1.949	2.039
Check ?	None	Chk	Pass	Chk	Pass	Chk	Pass
Value							
Range							

Zoom In
Zoom Out

Sample Name: ICV Acquired: 4/3/2015 7:34:11 Type: QC
Method: 60102007_042011(v209) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3175.6	7871.5	53091.	2325.7
Stddev	27.6	64.4	708.	25.6
%RSD	.86826	.81870	1.3328	1.1019
#1	3184.3	7900.9	53186.	2300.7
#2	3197.8	7916.0	52340.	2351.9
#3	3144.7	7797.6	53746.	2324.6

Zoom In Zoom Out

Sample Name: ICB Acquired: 4/3/2015 7:39:57 Type: QC
Method: 60102007_042011(v209) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0006	.0130	.0012	.0001	.0001	-.0076	.0000	.0001	-.0002
Stddev	.0004	.0207	.0006	.0006	.0001	.0029	.000	.0001	.0002
%RSD	64.28	158.7	47.84	531.6	115.0	37.98	75.87	118.0	92.84
#1	.0002	.0339	.0010	-.0003	.0000	-.0106	.0000	.0001	.0000
#2	.0008	.0128	.0007	.0008	.0002	-.0073	-.0001	.0000	-.0002
#3	.0008	-.0075	.0018	-.0002	.0002	-.0049	.0000	.0000	-.0003
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000	.0018	.0327	.0028	.0000	F.0012	.0332	.0000	-.0003
Stddev	.0003	.0032	.0779	.0226	.000	.0005	.0238	.000	.0009
%RSD	608.3	182.7	237.9	808.0	260.7	44.89	71.62	635.3	332.4
#1	.0001	.0053	-.0212	.0284	.0001	.0017	.0407	-.0001	-.0011
#2	.0003	-.0011	-.0027	-.0146	.0000	.0013	.0066	.0001	.0007
#3	-.0002	.0011	.1220	-.0053	-.0001	.0006	.0523	-.0001	-.0004
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit						.0010			
Low Limit						-.0010			

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0002	-.0014	.0010	.0004	-.0001	.0008	.0009	-.0002	-.0002
Stddev	.0022	.0014	.0004	.0003	.0000	.0001	.0002	.0002	.0001
%RSD	1068.	101.5	36.51	60.23	32.17	15.56	23.21	87.52	28.14
#1	-.0013	-.0002	.0009	.0007	-.0001	.0008	.0011	-.0005	-.0002
#2	-.0008	-.0030	.0014	.0005	-.0002	.0008	.0007	-.0001	-.0002
#3	.0027	-.0011	.0007	.0001	-.0001	.0006	.0010	-.0002	-.0003
Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Zoom In Zoom Out

Sample Name: ICB Acquired: 4/3/2015 7:39:57 Type: QC
Method: 60102007_042011(v209) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3667.5	8150.8	55057.	2360.4
Stddev	9.3	26.2	289.	8.3
%RSD	.25485	.32203	.52430	.35201
#1	3678.2	8177.1	55315.	2365.0
#2	3660.9	8124.6	55111.	2365.3
#3	3663.5	8150.7	54745.	2350.8

Zoom In Zoom Out

Sample Name: CRIA Acquired: 4/3/2015 7:43:46 Type: QC
Method: 60102007_042011(v209) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Sb2068
Units	ppm
Avg	.0043
Stddev	.0015
%RSD	35.13
#1	.0045
#2	.0057
#3	.0027
Check ?	Chk Pass
Value	
Range	

Int. Std.	Y_2243
Units	Cts/S
Avg	8051.6
Stddev	11.4
%RSD	.14160
#1	8059.9
#2	8056.4
#3	8038.6

Zoom In Zoom Out

Sample Name: CRIA Acquired: 4/3/2015 7:47:59 Type: QC
Method: 60102007_042011(v209) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0113	.2099	.0104	.2061	.0051	1.016	.0053	.0542	.0106	.0265
Stddev	.0000	.0192	.0012	.0020	.0000	.011	.0000	.0000	.0003	.0005
%RSD	.2254	9.171	11.63	.9637	.8783	1.107	.8836	.0516	2.924	1.822
#1	.0113	.1891	.0090	.2083	.0052	1.029	.0053	.0542	.0109	.0270
#2	.0112	.2270	.0110	.2056	.0051	1.007	.0053	.0542	.0104	.0260
#3	.0113	.2135	.0112	.2044	.0051	1.013	.0054	.0541	.0104	.0266
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value										
Range										

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Se1960	Si2124
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.3043	10.17	5.121	.0160	.0506	10.27	.0433	.0048	.0082	.0462
Stddev	.0082	.07	.072	.0000	.0002	.08	.0001	.0008	.0010	.0011
%RSD	2.681	.6612	1.406	.1874	.3684	.7646	.3213	17.63	12.25	2.369
#1	.3137	10.24	5.194	.0160	.0506	10.37	.0435	.0045	.0092	.0462
#2	.2997	10.10	5.117	.0160	.0505	10.24	.0434	.0042	.0081	.0451
#3	.2994	10.18	5.051	.0160	.0508	10.22	.0432	.0058	.0072	.0473
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None
Value										
Range										

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0548	.0097	.0098	.0091	.0490	.0219
Stddev	.0005	.0004	.0003	.0002	.0002	.0001
%RSD	.9535	4.103	3.005	2.698	.4163	.3183
#1	.0548	.0092	.0101	.0088	.0490	.0219
#2	.0553	.0100	.0095	.0092	.0488	.0218
#3	.0543	.0097	.0097	.0093	.0492	.0218
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Zoom In Zoom Out

Sample Name: CRIA Acquired: 4/3/2015 7:47:59 Type: QC
Method: 60102007_042011(v209) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3471.7	8012.0	53913.	2353.3
Stddev	9.3	20.5	257.	26.8
%RSD	.26723	.25636	.47651	1.1401
#1	3476.6	8027.8	54192.	2322.5
#2	3477.6	8019.4	53687.	2365.9
#3	3461.1	7988.8	53860.	2371.6

Zoom In Zoom Out

Sample Name: ICSA Acquired: 4/3/2015 7:52:17 Type: QC
Method: 60102007_042011(v210) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000	499.5	.0005	.0001	-.0001	481.2	.0000	.0000	.0009	.0000
Stddev	.001	1.6	.0021	.0011	.0002	6.6	.000	.000	.0004	.0001
%RSD	4020.	.3265	407.9	857.7	152.9	1.378	696.8	179.9	41.12	920.7
#1	-.0007	498.3	.0023	-.0011	-.0003	473.7	.0001	.0000	.0011	-.0001
#2	-.0002	498.8	-.0019	.0006	.0000	486.4	.0000	-.0001	.0011	.0001
#3	.0008	501.3	.0011	.0008	.0000	483.3	-.0001	.0000	.0005	.0000
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	188.4	.4821	483.6	-.0008	-.0001	.3714	.0000	-.0008	.0000	.0000
Stddev	.5	.0229	1.6	.0001	.0001	.0082	.000	.0014	.0009	.0027
%RSD	.2585	4.750	.3389	7.966	60.83	2.213	1687.	165.3	1964.	51510.
#1	187.9	.4680	482.6	-.0008	-.0001	.3755	.0000	-.0012	-.0007	.0028
#2	188.4	.4698	482.7	-.0008	-.0002	.3768	.0001	-.0019	-.0001	-.0025
#3	188.9	.5085	485.5	-.0009	-.0001	.3620	-.0001	.0007	.0010	-.0003
Check ?	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0512	.0010	.0003	.0001	.0000	.0000	.0023
Stddev	.0018	.0001	.0001	.0002	.001	.0009	.0000
%RSD	3.454	11.13	28.47	304.6	5960.	23010.	.9133
#1	.0523	.0011	.0004	.0003	-.0003	-.0005	.0023
#2	.0491	.0009	.0003	-.0001	.0006	-.0006	.0023
#3	.0521	.0009	.0002	.0000	-.0003	.0010	.0023
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Zoom In Zoom Out

Sample Name: ICSA Acquired: 4/3/2015 7:52:17 Type: QC
Method: 60102007_042011(v210) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2876.0	7352.8	47733.	2172.2
Stddev	12.3	22.6	92.	10.5
%RSD	.42919	.30742	.19346	.48458
#1	2889.9	7374.6	47837.	2183.0
#2	2871.4	7329.4	47663.	2171.8
#3	2866.5	7354.5	47698.	2161.9

Zoom In Zoom Out

Sample Name: ICSAB Acquired: 4/3/2015 7:58:24 Type: QC
Method: 60102007_042011(v210) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.034	491.3	1.098	.5186	.4972	473.1	.9739	.4951	.5061	.5376
Stddev	.002	1.9	.004	.0016	.0027	5.5	.0012	.0004	.0020	.0017
%RSD	.1752	.3789	.3967	.3007	.5499	1.170	.1225	.0859	.3914	.3179
#1	1.035	492.2	1.095	.5180	.4995	477.4	.9746	.4953	.5054	.5394
#2	1.032	492.7	1.103	.5204	.4978	475.1	.9746	.4953	.5046	.5361
#3	1.034	489.2	1.096	.5175	.4942	466.8	.9725	.4946	.5083	.5373
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value										
Range										

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	189.4	.2430	475.0	.5103	.9785	.3091	.9878	.9707	1.102	1.062
Stddev	.6	.0634	1.7	.0007	.0008	.0242	.0008	.0007	.005	.002
%RSD	.2997	26.08	.3670	.1439	.0796	7.815	.0823	.0772	.4802	.2028
#1	189.8	.2277	475.6	.5110	.9779	.3369	.9881	.9713	1.103	1.061
#2	189.7	.3126	476.3	.5095	.9794	.2927	.9884	.9709	1.108	1.064
#3	188.7	.1886	473.0	.5103	.9781	.2978	.9869	.9698	1.097	1.060
Check ?	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value										
Range										

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1172	.9958	.9979	1.013	.9789	.4762	.9944
Stddev	.0014	.0023	.0047	.001	.0024	.0012	.0010
%RSD	1.212	.2319	.4736	.1423	.2426	.2614	.1008
#1	.1165	.9949	1.001	1.015	.9814	.4766	.9944
#2	.1189	.9985	1.001	1.013	.9767	.4748	.9954
#3	.1163	.9941	.9924	1.012	.9785	.4772	.9934
Check ?	None	Chk Pass	None	None	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Zoom In Zoom Out

Sample Name: ICSAB Acquired: 4/3/2015 7:58:24 Type: QC
Method: 60102007_042011(v210) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2828.9	7287.1	47574.	2209.8
Stddev	4.8	4.9	313.	14.8
%RSD	.17075	.06741	.65874	.67170
#1	2828.0	7288.8	47422.	2196.6
#2	2834.1	7290.9	47934.	2225.9
#3	2824.5	7281.6	47365.	2206.9

Zoom In Zoom Out

Sample Name: CCV Acquired: 4/3/2015 8:02:16 Type: QC
Method: 60102007_042011(v210) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2505	39.81	2.093	2.003	1.941	39.24	2.106	2.076	2.041	2.013
Stddev	.0010	.31	.007	.011	.009	.19	.005	.007	.002	.003
%RSD	.4076	.7867	.3604	.5416	.4893	.4831	.2532	.3250	.1041	.1520
#1	.2515	39.90	2.085	2.003	1.935	39.19	2.100	2.070	2.039	2.010
#2	.2505	40.06	2.093	2.014	1.952	39.45	2.106	2.075	2.043	2.014
#3	.2494	39.46	2.100	1.992	1.935	39.08	2.111	2.083	2.042	2.016
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value										
Range										

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	40.56	39.78	39.63	2.001	2.060	39.44	2.050	2.001	2.082	2.092
Stddev	.16	.11	.18	.011	.007	.22	.006	.005	.006	.004
%RSD	.4006	.2862	.4466	.5326	.3294	.5500	.2935	.2534	.3136	.2103
#1	40.49	39.78	39.59	2.010	2.054	39.35	2.045	1.996	2.075	2.087
#2	40.75	39.89	39.82	2.003	2.059	39.69	2.048	2.002	2.083	2.095
#3	40.45	39.67	39.48	1.989	2.068	39.28	2.056	2.006	2.087	2.094
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value										
Range										

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.125	2.058	1.960	2.009	2.019	1.958	2.058
Stddev	.006	.006	.008	.002	.009	.002	.007
%RSD	.3013	.3027	.4208	.0935	.4622	.1240	.3340
#1	2.120	2.052	1.961	2.008	2.010	1.956	2.051
#2	2.124	2.058	1.968	2.007	2.019	1.959	2.057
#3	2.132	2.065	1.951	2.011	2.029	1.960	2.065
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Zoom In Zoom Out

Sample Name: CCV Acquired: 4/3/2015 8:02:16 Type: QC
Method: 60102007_042011(v210) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3139.6	7754.1	52003.	2267.9
Stddev	7.1	18.0	327.	20.9
%RSD	.22719	.23240	.62856	.92277
#1	3147.8	7774.5	52128.	2286.3
#2	3135.9	7747.2	51632.	2245.1
#3	3135.0	7740.5	52249.	2272.1

Zoom In Zoom Out

Sample Name: CCB Acquired: 4/3/2015 8:07:24 Type: QC
Method: 60102007_042011(v210) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0004	.0087	.0014	.0002	.0000	-.0090	.0000	.0000
Stddev	.0006	.0243	.0003	.0005	.000	.0029	.0001	.0001
%RSD	146.1	278.7	18.69	205.6	2730.	31.58	319.1	660.5
#1	.0006	.0016	.0014	-.0003	.0001	-.0114	.0000	.0001
#2	-.0003	.0358	.0011	.0007	-.0002	-.0059	.0000	.0000
#3	.0008	-.0112	.0016	.0003	.0000	-.0099	.0001	.0000
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Cr2677	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0002	.0000	.0018	.0171	-.0094	-.0001	.0003	.0189
Stddev	.0004	.000	.0020	.0445	.0211	.0000	.0003	.0141
%RSD	247.2	683.4	113.2	260.5	223.9	40.54	109.8	74.35
#1	.0003	.0002	.0037	.0193	-.0313	-.0001	.0005	.0307
#2	-.0003	.0000	.0019	-.0285	-.0079	-.0001	-.0001	.0227
#3	-.0005	-.0004	-.0003	.0604	.0109	.0000	.0005	.0033
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Ni2316	Pb2203	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000	F-.0011	-.0002	-.0017	.0011	.0002	-.0002	-.0002
Stddev	.000	.0008	.0011	.0007	.0003	.0002	.0002	.0001
%RSD	653.8	71.78	673.2	40.31	30.46	111.3	96.34	36.18
#1	-.0001	-.0008	-.0005	-.0020	.0007	.0000	-.0004	-.0003
#2	.0001	-.0020	.0011	-.0021	.0014	.0004	-.0003	-.0002
#3	.0000	-.0005	-.0011	-.0009	.0012	.0002	.0000	-.0002
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass
High Limit		.0010						
Low Limit		-.0010						

Zoom In Zoom Out

Sample Name: CCB Acquired: 4/3/2015 8:07:24 Type: QC
Method: 60102007_042011(v210) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm
Avg	.0008	-.0002	-.0001
Stddev	.0014	.0002	.0000
%RSD	173.6	143.0	56.42
#1	.0023	.0001	-.0001
#2	.0005	-.0004	-.0001
#3	-.0004	-.0002	.0000
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3693.8	8155.9	55236.	2340.9
Stddev	7.4	21.1	86.	8.6
%RSD	.20013	.25840	.15483	.36579
#1	3702.0	8180.3	55217.	2349.9
#2	3692.0	8144.3	55329.	2332.8
#3	3687.6	8143.3	55161.	2339.9

Zoom In Zoom Out

Sample Name: MP28748-MB1 Acquired: 4/3/2015 8:11:18 Type: QC
Method: 60102007_042011(v210) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0002	.0067	-.0003	-.0002	-.0001	.4609	-.0001	-.0001	.0001	-.0002
Stddev	.0006	.0237	.0003	.0002	.0000	.0195	.0000	.0001	.0001	.0002
%RSD	354.9	356.6	121.5	114.8	52.31	4.233	6.401	71.72	111.1	142.4
#1	.0008	.0299	-.0006	.0001	-.0001	.4400	-.0001	-.0001	.0003	.0000
#2	-.0003	.0075	-.0001	-.0003	-.0001	.4640	-.0001	.0000	.0002	-.0005
#3	.0000	-.0175	.0000	-.0004	-.0001	.4787	-.0001	-.0001	.0000	.0000
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0051	-.0479	-.0107	.0000	-.0002	.0079	-.0003	-.0003	.0000	-.0015
Stddev	.0050	.0771	.0127	.000	.0003	.0204	.0001	.0005	.0014	.0008
%RSD	99.10	160.8	118.7	1002.	160.0	256.7	48.37	150.4	3233.	49.51
#1	-.0008	-.1253	.0002	.0001	-.0001	-.0128	-.0002	-.0004	-.0005	-.0008
#2	-.0106	.0289	-.0246	-.0001	.0001	.0279	-.0004	-.0008	-.0009	-.0024
#3	-.0038	-.0475	-.0077	.0000	-.0005	.0088	-.0002	.0002	.0016	-.0014
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0212	.0003	.0000	-.0004	.0006	-.0001	.0002
Stddev	.0007	.0002	.0000	.0001	.0010	.0002	.0000
%RSD	3.358	76.37	112.4	14.75	175.5	116.9	9.454
#1	.0207	.0004	.0001	-.0004	.0005	-.0003	.0002
#2	.0220	.0000	.0001	-.0004	.0016	.0000	.0002
#3	.0210	.0003	.0000	-.0005	-.0004	-.0001	.0002
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Zoom In Zoom Out

Sample Name: MP28748-MB1 Acquired: 4/3/2015 8:11:18 Type: QC
Method: 60102007_042011(v210) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3699.1	8234.8	56135.	2354.0
Stddev	3.2	15.3	195.	11.1
%RSD	.08523	.18617	.34775	.47027
#1	3695.6	8251.7	55932.	2344.5
#2	3700.0	8231.1	56153.	2351.3
#3	3701.7	8221.7	56322.	2366.1

Zoom In Zoom Out

Sample Name: MP28748-B1 Acquired: 4/3/2015 8:15:46 Type: QC
Method: 60102007_042011(v210) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0501	27.54	2.145	2.068	.0505	25.05	.0535	.5315	.2162	.2643
Stddev	.0005	.18	.004	.009	.0006	.17	.0002	.0008	.0013	.0002
%RSD	.9479	.6627	.1991	.4163	1.184	.6958	.2934	.1548	.5844	.0677
#1	.0498	27.47	2.142	2.067	.0502	24.96	.0535	.5316	.2172	.2644
#2	.0498	27.74	2.150	2.078	.0511	25.26	.0533	.5306	.2165	.2644
#3	.0506	27.40	2.145	2.061	.0501	24.95	.0536	.5322	.2148	.2641
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value										
Range										

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	26.97	25.29	25.15	.5189	.5147	25.23	.5313	.4950	.5312	2.118
Stddev	.20	.23	.18	.0003	.0012	.21	.0006	.0020	.0004	.001
%RSD	.7530	.8938	.7312	.0624	.2273	.8236	.1206	.4035	.0827	.0548
#1	26.87	25.22	25.07	.5191	.5141	25.10	.5315	.4971	.5311	2.119
#2	27.20	25.55	25.36	.5191	.5139	25.47	.5306	.4932	.5309	2.117
#3	26.83	25.11	25.02	.5185	.5160	25.12	.5318	.4946	.5317	2.118
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value										
Range										

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0301	.5312	.4923	.4994	2.014	.4916	.5248
Stddev	.0004	.0008	.0021	.0003	.002	.0011	.0007
%RSD	1.184	.1423	.4286	.0523	.1149	.2260	.1278
#1	.0299	.5318	.4918	.4997	2.016	.4927	.5251
#2	.0298	.5304	.4947	.4993	2.013	.4904	.5241
#3	.0305	.5315	.4905	.4993	2.012	.4916	.5253
Check ?	None	Chk Pass	None	None	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Zoom In Zoom Out

Sample Name: MP28748-B1 Acquired: 4/3/2015 8:15:46 Type: QC
Method: 60102007_042011(v210) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3332.9	7949.5	53671.	2357.4
Stddev	5.4	17.1	188.	27.0
%RSD	.16086	.21478	.35020	1.1438
#1	3326.9	7940.7	53485.	2361.0
#2	3337.2	7969.2	53666.	2328.9
#3	3334.6	7938.7	53861.	2382.4

Zoom In Zoom Out

Sample Name: FA23034-3 Acquired: 4/3/2015 8:20:08 Type: Unk
Method: 60102007_042011(v210) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)
Avg	.0000	.0442	-.0004	.0062	-.0001	5.615	.0108	.0001	.0036
Stddev	.001	.0318	.0015	.0004	.0003	.051	.0001	.0000	.0005
%RSD	1831.	72.05	362.4	7.212	210.3	.9079	.5667	29.42	13.27
#1	.0006	.0095	.0005	.0067	-.0004	5.629	.0108	.0001	.0032
#2	-.0002	.0511	-.0022	.0060	.0001	5.658	.0108	.0001	.0034
#3	-.0004	.0720	.0004	.0059	-.0001	5.559	.0107	.0002	.0041

Elem	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
IS Ref	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)
Avg	.0006	.0883	.6913	.9201	.0229	.0219	F159.8	.0025	.0003
Stddev	.0006	.0021	.0007	.0171	.0001	.0001	1.1	.0005	.0009
%RSD	93.17	2.434	.0996	1.854	.6219	.2586	.6618	18.36	308.1
#1	.0000	.0902	.6918	.9146	.0229	.0220	160.5	.0020	-.0001
#2	.0011	.0860	.6905	.9392	.0228	.0219	160.2	.0029	-.0004
#3	.0007	.0886	.6915	.9065	.0230	.0219	158.6	.0024	.0014

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	.0042	-.0004	.0758	.0004	.1492	.0000	-.0006	.0000	1.102
Stddev	.0017	.0045	.0010	.0002	.0010	.000	.0017	.000	.002
%RSD	40.99	1082.	1.366	55.20	.6881	1768.	255.8	957.9	.1772
#1	.0051	-.0037	.0769	.0003	.1492	.0001	-.0016	-.0004	1.104
#2	.0022	-.0023	.0748	.0006	.1503	.0001	-.0016	.0000	1.100
#3	.0053	.0047	.0757	.0002	.1482	-.0002	.0013	.0003	1.102

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	3325.8	7978.9	53145.	2367.2
Stddev	11.2	27.6	210.	25.9
%RSD	.33754	.34648	.39433	1.0962
#1	3315.2	7949.8	53091.	2341.0
#2	3324.5	7982.1	52968.	2367.7
#3	3337.6	8004.9	53377.	2392.9

Zoom In Zoom Out

Sample Name: MP28748-D1 Acquired: 4/3/2015 8:24:35 Type: Unk
Method: 60102007_042011(v210) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)
Avg	.0004	.0361	.0008	.0067	-.0002	5.329	.0105	.0001	.0035
Stddev	.0002	.0154	.0005	.0008	.0001	.031	.0000	.0001	.0004
%RSD	50.13	42.72	60.38	12.48	70.54	.5836	.2494	110.8	11.68
#1	.0002	.0519	.0012	.0057	-.0002	5.293	.0105	.0002	.0035
#2	.0005	.0352	.0009	.0070	-.0003	5.351	.0106	.0001	.0040
#3	.0005	.0211	.0003	.0073	-.0001	5.342	.0105	.0000	.0032

Elem	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
IS Ref	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)
Avg	.0002	.0853	.6897	.9106	.0224	.0212	F154.2	.0026	-.0010
Stddev	.0001	.0025	.0642	.0081	.0001	.0001	.2	.0001	.0005
%RSD	45.00	2.942	9.314	.8843	.2469	.5382	.1588	4.914	44.89
#1	.0003	.0873	.6275	.9130	.0224	.0211	154.0	.0025	-.0011
#2	.0001	.0825	.6858	.9172	.0225	.0213	154.2	.0027	-.0014
#3	.0003	.0862	.7558	.9017	.0224	.0211	154.5	.0027	-.0005

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	.0043	-.0006	.0762	.0005	.1454	-.0003	-.0009	-.0004	1.086
Stddev	.0006	.0011	.0009	.0002	.0005	.0002	.0003	.0002	.000
%RSD	14.38	185.6	1.165	43.85	.3274	58.55	31.62	65.61	.0318
#1	.0037	.0003	.0770	.0008	.1449	-.0003	-.0011	-.0003	1.086
#2	.0042	-.0017	.0764	.0004	.1454	-.0005	-.0009	-.0006	1.087
#3	.0050	-.0003	.0753	.0004	.1458	-.0002	-.0006	-.0002	1.086

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	3320.7	7940.4	52492.	2361.3
Stddev	6.2	3.8	461.	5.9
%RSD	.18680	.04842	.87774	.24967
#1	3317.3	7942.2	52750.	2364.7
#2	3317.0	7936.0	51961.	2354.5
#3	3327.9	7943.0	52767.	2364.7

Zoom In Zoom Out

Sample Name: MP28748-SD1 Acquired: 4/3/2015 8:29:02 Type: Unk
Method: 60102007_042011(v210) Mode: CONC Corr. Factor: 5.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	.0047	.0325	.0035	.0107	-.0005	5.991	.0106	-.0001	.0025	-.0009
Stddev	.0033	.0683	.0044	.0010	.0005	.040	.0003	.0007	.0001	.0010
%RSD	70.38	210.2	126.3	9.519	95.29	.6637	2.941	694.4	5.402	107.8
#1	.0081	.0710	-.0007	.0111	-.0002	5.952	.0108	-.0009	.0025	-.0015
#2	.0016	.0729	.0031	.0114	-.0011	6.032	.0102	.0006	.0024	.0002
#3	.0043	-.0464	.0082	.0095	-.0003	5.989	.0108	.0000	.0026	-.0015

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	.0654	.2371	.8824	.0230	.0189	167.9	.0027	-.0053	-.0086	-.0025
Stddev	.0048	.2495	.1683	.0002	.0009	.3	.0002	.0020	.0041	.0073
%RSD	7.325	105.2	19.07	.8985	4.670	.2039	5.514	37.36	47.77	293.6
#1	.0599	-.0193	.9702	.0227	.0195	168.2	.0029	-.0070	-.0120	-.0091
#2	.0689	.4790	.9887	.0231	.0194	168.0	.0026	-.0031	-.0098	.0053
#3	.0673	.2517	.6884	.0231	.0179	167.5	.0027	-.0057	-.0041	-.0037

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	.0867	.0004	.1520	-.0039	-.0057	-.0010	1.135
Stddev	.0033	.0010	.0010	.0004	.0060	.0038	.002
%RSD	3.798	233.4	.6736	9.245	105.1	375.6	.1356
#1	.0886	-.0004	.1524	-.0038	.0012	.0017	1.134
#2	.0886	.0015	.1528	-.0042	-.0088	-.0053	1.135
#3	.0829	.0001	.1509	-.0035	-.0096	.0006	1.137

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	3483.0	8037.4	53963.	2302.9
Stddev	7.8	25.4	156.	18.5
%RSD	.22284	.31572	.28924	.80154
#1	3485.5	8023.6	53958.	2281.8
#2	3474.2	8021.8	53809.	2310.3
#3	3489.1	8066.7	54121.	2316.4

Zoom In
Zoom Out

Sample Name: MP28748-S1 Acquired: 4/3/2015 8:33:30 Type: Unk
Method: 60102007_042011(v210) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)
Avg	.0498	27.09	2.187	2.020	.0490	29.94	.0637	.5202	.2194
Stddev	.0008	.01	.011	.006	.0002	.10	.0002	.0003	.0002
%RSD	1.619	.0449	.4959	.2801	.3500	.3306	.2995	.0585	.0799
#1	.0489	27.08	2.180	2.025	.0491	30.05	.0638	.5200	.2195
#2	.0505	27.10	2.200	2.014	.0490	29.91	.0639	.5205	.2195
#3	.0500	27.11	2.182	2.021	.0488	29.86	.0635	.5200	.2192

Elem	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
IS Ref	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)
Avg	.2556	26.54	25.78	25.43	.5344	.5306	F178.2	.5231	.5056
Stddev	.0009	.03	.06	.03	.0012	.0006	.8	.0006	.0018
%RSD	.3397	.1087	.2386	.1348	.2286	.1184	.4211	.1216	.3605
#1	.2549	26.51	25.74	25.45	.5332	.5299	179.0	.5224	.5035
#2	.2565	26.54	25.75	25.39	.5357	.5312	177.9	.5237	.5067
#3	.2552	26.57	25.85	25.45	.5344	.5307	177.6	.5232	.5067

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	.5332	2.173	.0862	.5276	.6291	.4941	2.000	.4872	1.605
Stddev	.0017	.003	.0003	.0007	.0005	.0008	.009	.0014	.001
%RSD	.3189	.1272	.3995	.1266	.0720	.1540	.4678	.2842	.0654
#1	.5332	2.170	.0861	.5271	.6294	.4939	1.990	.4861	1.604
#2	.5315	2.175	.0865	.5274	.6286	.4949	2.008	.4888	1.605
#3	.5349	2.174	.0859	.5283	.6293	.4935	2.003	.4868	1.606

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	3188.3	7902.0	51781.	2274.1
Stddev	5.2	13.3	329.	26.0
%RSD	.16262	.16780	.63531	1.1424
#1	3191.5	7895.1	52161.	2247.8
#2	3191.1	7917.3	51606.	2274.9
#3	3182.3	7893.7	51578.	2299.7

Zoom In
Zoom Out

Sample Name: MP28748-S2 Acquired: 4/3/2015 8:37:52 Type: Unk
Method: 60102007_042011(v210) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)
Avg	.0503	27.17	2.218	2.036	.0494	30.30	.0647	.5247	.2220
Stddev	.0004	.36	.006	.014	.0001	.15	.0002	.0003	.0010
%RSD	.7317	1.317	.2804	.6918	.2823	.4867	.2396	.0617	.4299
#1	.0504	27.13	2.221	2.029	.0494	30.23	.0648	.5244	.2224
#2	.0499	27.54	2.210	2.052	.0494	30.47	.0648	.5250	.2210
#3	.0506	26.83	2.221	2.027	.0492	30.20	.0645	.5247	.2228

Elem	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
IS Ref	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)
Avg	.2588	26.88	26.26	25.79	.5416	.5348	F177.8	.5282	.5152
Stddev	.0007	.14	.23	.12	.0003	.0001	1.1	.0004	.0027
%RSD	.2785	.5167	.8768	.4513	.0579	.0233	.6440	.0729	.5276
#1	.2589	26.84	26.08	25.81	.5414	.5349	177.6	.5285	.5123
#2	.2580	27.03	26.52	25.89	.5419	.5347	179.1	.5278	.5157
#3	.2594	26.76	26.17	25.66	.5413	.5348	176.9	.5282	.5176

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	.5358	2.214	.0854	.5333	.6360	.5004	2.025	.4956	1.625
Stddev	.0031	.003	.0017	.0007	.0051	.0010	.009	.0016	.002
%RSD	.5697	.1334	1.970	.1287	.8082	.1911	.4672	.3236	.0978
#1	.5388	2.213	.0873	.5341	.6331	.5001	2.021	.4946	1.623
#2	.5358	2.211	.0843	.5329	.6419	.4997	2.018	.4975	1.625
#3	.5327	2.217	.0845	.5329	.6329	.5015	2.036	.4948	1.626

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	3254.5	8085.4	52675.	2298.8
Stddev	4.0	26.5	40.	12.9
%RSD	.12289	.32822	.07521	.56092
#1	3253.4	8059.3	52691.	2291.3
#2	3258.9	8084.4	52630.	2291.4
#3	3251.1	8112.4	52703.	2313.7

Zoom In
Zoom Out

Sample Name: FA23034-1 Acquired: 4/3/2015 8:42:14 Type: Unk
Method: 60102007_042011(v210) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)
Avg	.0014	.1107	.0010	.0190	-.0003	6.593	.0104	.0009	.0007
Stddev	.0011	.0390	.0007	.0004	.0001	.035	.0001	.0000	.0002
%RSD	76.58	35.21	71.03	2.024	36.96	.5338	1.030	5.215	27.54
#1	.0013	.1544	.0004	.0194	-.0004	6.592	.0105	.0008	.0006
#2	.0004	.0985	.0009	.0186	-.0003	6.628	.0104	.0009	.0010
#3	.0025	.0793	.0018	.0188	-.0002	6.557	.0103	.0008	.0007

Elem	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
IS Ref	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)
Avg	.0594	.0564	.8668	.3465	.0442	.0218	F150.4	.0067	.0287
Stddev	.0010	.0016	.0771	.0258	.0001	.0003	1.1	.0001	.0013
%RSD	1.757	2.856	8.896	7.447	.3292	1.345	.7391	1.990	4.565
#1	.0594	.0575	.7794	.3762	.0444	.0216	150.3	.0066	.0280
#2	.0583	.0546	.8962	.3330	.0442	.0221	151.6	.0065	.0279
#3	.0604	.0572	.9249	.3302	.0441	.0216	149.4	.0068	.0302

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	.0078	.0012	.1468	.0010	.0168	.0018	-.0015	.0000	1.156
Stddev	.0004	.0002	.0013	.0005	.0003	.0001	.0007	.0003	.003
%RSD	4.648	20.03	.9032	43.01	1.974	8.014	48.50	7202.	.2684
#1	.0080	.0012	.1483	.0013	.0167	.0017	-.0023	.0003	1.159
#2	.0074	.0013	.1461	.0005	.0172	.0020	-.0013	-.0002	1.153
#3	.0080	.0009	.1460	.0013	.0166	.0018	-.0009	-.0001	1.154

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	3313.7	7952.6	52568.	2240.3
Stddev	8.9	11.1	126.	13.4
%RSD	.26798	.13957	.23983	.59592
#1	3304.1	7939.9	52696.	2241.9
#2	3315.3	7960.6	52562.	2226.2
#3	3321.6	7957.3	52444.	2252.8

Zoom In
Zoom Out

Sample Name: FA23034-2 Acquired: 4/3/2015 8:46:41 Type: Unk
Method: 60102007_042011(v210) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)
Avg	.0012	.0448	.0002	.1938	-.0003	13.47	.0529	.0037	.0015
Stddev	.0002	.0342	.0008	.0020	.0001	.08	.0001	.0001	.0003
%RSD	14.23	76.23	492.9	1.028	32.37	.5930	.2051	2.398	22.05
#1	.0012	.0765	.0011	.1960	-.0004	13.45	.0529	.0037	.0016
#2	.0014	.0086	-.0005	.1922	-.0003	13.40	.0529	.0036	.0018
#3	.0010	.0493	-.0001	.1931	-.0003	13.55	.0531	.0036	.0011

Elem	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
IS Ref	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)
Avg	.0430	2.109	.5580	.8462	.1041	.0006	F157.0	.0173	.0315
Stddev	.0003	.021	.0871	.0484	.0003	.0002	.7	.0002	.0008
%RSD	.7588	.9963	15.61	5.718	.2539	38.12	.4570	1.055	2.490
#1	.0429	2.133	.6435	.8783	.1044	.0006	157.5	.0175	.0323
#2	.0428	2.094	.4694	.7906	.1040	.0007	156.2	.0172	.0317
#3	.0434	2.101	.5610	.8699	.1040	.0003	157.4	.0172	.0307

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	.0036	-.0028	.1880	.0038	.0461	.0002	-.0028	-.0006	1.172
Stddev	.0014	.0036	.0009	.0004	.0002	.0003	.0007	.0002	.002
%RSD	37.77	129.6	.4600	11.03	.3613	115.4	23.82	37.15	.1623
#1	.0024	.0001	.1889	.0037	.0460	.0003	-.0033	-.0007	1.170
#2	.0051	-.0067	.1877	.0033	.0459	-.0001	-.0021	-.0004	1.171
#3	.0033	-.0017	.1873	.0042	.0462	.0005	-.0031	-.0008	1.174

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	3288.9	7924.0	51879.	2209.5
Stddev	15.8	39.2	311.	20.6
%RSD	.47975	.49509	.59938	.93341
#1	3294.7	7937.5	51530.	2217.7
#2	3301.0	7954.8	51981.	2224.8
#3	3271.1	7879.9	52127.	2186.0

Zoom In Zoom Out

Sample Name: FA23034-4 Acquired: 4/3/2015 8:51:07 Type: Unk
Method: 60102007_042011(v210) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)
Avg	.0024	.0497	-.0007	.0096	-.0002	5.635	.0050	.0068	.0013
Stddev	.0007	.0188	.0008	.0005	.0001	.022	.0001	.0001	.0002
%RSD	29.35	37.79	122.8	4.896	37.04	.3901	1.499	1.672	17.05
#1	.0029	.0302	-.0013	.0091	-.0002	5.654	.0050	.0069	.0015
#2	.0026	.0676	.0003	.0098	-.0003	5.611	.0049	.0067	.0013
#3	.0016	.0512	-.0010	.0100	-.0001	5.639	.0050	.0069	.0011

Elem	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
IS Ref	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)
Avg	.0018	35.72	.5500	1.654	.4538	-.0007	F165.4	.0093	-.0001
Stddev	.0004	.11	.1610	.058	.0007	.0001	1.1	.0002	.0021
%RSD	22.88	.3059	29.26	3.474	.1481	12.17	.6391	2.523	2178.
#1	.0018	35.84	.4689	1.720	.4543	-.0007	166.7	.0094	.0023
#2	.0014	35.64	.7354	1.624	.4531	-.0006	164.7	.0090	-.0010
#3	.0022	35.67	.4457	1.617	.4542	-.0008	164.9	.0094	-.0015

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	.0000	-.0027	.0761	.0005	.2165	-.0002	-.0027	-.0006	.1496
Stddev	.002	.0010	.0013	.0003	.0027	.0002	.0018	.0003	.0002
%RSD	6863.	39.23	1.735	69.07	1.244	83.62	66.08	56.68	.1579
#1	-.0007	-.0016	.0754	.0008	.2196	-.0001	-.0044	-.0010	.1493
#2	.0018	-.0027	.0754	.0006	.2144	-.0001	-.0009	-.0004	.1497
#3	-.0012	-.0037	.0777	.0001	.2156	-.0004	-.0027	-.0004	.1498

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	3270.9	7911.4	50910.	2097.2
Stddev	7.7	10.5	217.	8.1
%RSD	.23457	.13230	.42677	.38665
#1	3266.0	7907.7	50769.	2105.4
#2	3267.0	7903.3	50801.	2089.2
#3	3279.7	7923.3	51160.	2097.0

Zoom In Zoom Out

Sample Name: CCV Acquired: 4/3/2015 8:55:32 Type: QC
Method: 60102007_042011(v210) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2578	40.07	2.194	1.962	1.889	39.74	F2.200	2.122	2.160
Stddev	.0009	.29	.006	.015	.013	.34	.002	.002	.002
%RSD	.3441	.7330	.2553	.7448	.6855	.8527	.0674	.1012	.1028
#1	.2586	39.93	2.189	1.949	1.878	39.52	2.201	2.121	2.158
#2	.2569	39.88	2.200	1.957	1.886	39.56	2.198	2.120	2.159
#3	.2579	40.41	2.193	1.978	1.903	40.13	2.201	2.124	2.162
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass
Value							2.000		
Range							10.00%		

Elem	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.058	41.11	40.62	40.17	2.054	2.093	39.45	2.085	2.072
Stddev	.004	.32	.32	.30	.011	.005	.34	.003	.005
%RSD	.2153	.7805	.7783	.7350	.5568	.2227	.8586	.1317	.2270
#1	2.061	40.84	40.38	40.12	2.066	2.089	39.21	2.083	2.069
#2	2.053	41.03	40.50	39.91	2.051	2.092	39.30	2.083	2.069
#3	2.061	41.46	40.98	40.49	2.044	2.098	39.83	2.088	2.077
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value									
Range									

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.141	2.192	2.176	2.136	1.939	2.027	2.039	2.027	2.161
Stddev	.002	.002	.001	.002	.013	.002	.001	.003	.002
%RSD	.0845	.0976	.0325	.1102	.6894	.0717	.0415	.1455	.0786
#1	2.141	2.194	2.176	2.134	1.928	2.029	2.039	2.028	2.160
#2	2.143	2.191	2.175	2.135	1.936	2.027	2.039	2.023	2.160
#3	2.140	2.191	2.176	2.138	1.954	2.026	2.038	2.029	2.163
Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value									
Range									

Zoom In Zoom Out

Sample Name: CCV Acquired: 4/3/2015 8:55:32 Type: QC
Method: 60102007_042011(v210) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3109.2	7608.0	50097.	2069.5
Stddev	10.1	26.3	565.	43.3
%RSD	.32610	.34633	1.1275	2.0899
#1	3115.3	7614.8	49540.	2095.0
#2	3097.5	7579.0	50670.	2094.0
#3	3114.7	7630.3	50081.	2019.6

Zoom In Zoom Out

Sample Name: CCB Acquired: 4/3/2015 9:00:02 Type: QC
Method: 60102007_042011(v210) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F.0021	-.0108	.0003	-.0006	.0001	-.0059	-.0002	.0000
Stddev	.0010	.0412	.0004	.0006	.0001	.0025	.0000	.000
%RSD	46.59	382.5	132.0	94.36	133.4	42.85	25.57	305.3
#1	.0020	.0349	.0007	-.0011	.0002	-.0088	-.0001	.0000
#2	.0031	-.0218	.0001	.0000	.0001	-.0043	-.0002	.0001
#3	.0011	-.0454	.0000	-.0007	.0000	-.0046	-.0002	-.0001
Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	.0010							
Low Limit	-.0010							

Elem	Cr2677	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0001	-.0003	.0075	-.0221	-.0258	-.0001	F.0011	.0917
Stddev	.0002	.0004	.0082	.0631	.0187	.0002	.0003	.0289
%RSD	205.9	124.2	109.2	285.5	72.28	210.6	27.05	31.54
#1	.0003	-.0008	.0160	.0392	-.0430	.0001	.0014	.0784
#2	.0001	.0000	.0068	-.0187	-.0060	-.0001	.0011	.1248
#3	-.0001	-.0002	-.0003	-.0868	-.0284	-.0002	.0008	.0718
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit							.0010	
Low Limit							-.0010	

Elem	Ni2316	Pb2203	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0001	F-.0011	.0005	F-.0044	.0027	.0005	-.0002	.0006
Stddev	.0002	.0009	.0022	.0012	.0019	.0004	.0000	.0001
%RSD	222.7	77.90	453.3	27.66	69.28	85.43	6.567	25.03
#1	.0003	-.0003	.0024	-.0034	.0046	.0010	-.0002	.0007
#2	-.0001	-.0020	.0010	-.0058	.0027	.0002	-.0002	.0004
#3	.0001	-.0011	-.0019	-.0041	.0008	.0003	-.0002	.0006
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Fail	None	Chk Pass	Chk Pass	Chk Pass
High Limit		.0010		.0020				
Low Limit		-.0010		-.0020				

Zoom In Zoom Out

Sample Name: CCB Acquired: 4/3/2015 9:00:02 Type: QC
Method: 60102007_042011(v210) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm
Avg	-.0016	-.0008	-.0001
Stddev	.0006	.0004	.0001
%RSD	40.21	47.02	77.40
#1	-.0010	-.0011	-.0003
#2	-.0023	-.0008	-.0001
#3	-.0014	-.0004	-.0001
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3615.2	7971.0	52466.	2061.2
Stddev	5.8	21.8	117.	25.5
%RSD	.16050	.27321	.22208	1.2387
#1	3609.7	7947.3	52360.	2032.1
#2	3621.3	7990.1	52591.	2079.8
#3	3614.6	7975.6	52447.	2071.6

Zoom In Zoom Out

Sample Name: CCV Acquired: 4/3/2015 9:24:48 Type: QC
Method: 60102007_042011(v210) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2498	40.58	2.015	2.017	2.020	40.52	2.032	2.027	2.033	2.029
Stddev	.0014	.16	.005	.009	.010	.17	.003	.001	.010	.006
%RSD	.5521	.3885	.2632	.4437	.5121	.4105	.1231	.0518	.4844	.2805
#1	.2514	40.66	2.021	2.027	2.032	40.70	2.031	2.026	2.037	2.032
#2	.2492	40.67	2.013	2.014	2.017	40.47	2.031	2.027	2.022	2.022
#3	.2489	40.39	2.012	2.010	2.012	40.38	2.035	2.028	2.040	2.032
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value										
Range										

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	40.76	40.82	40.39	2.060	2.023	40.66	2.023	1.988	2.018	2.020
Stddev	.19	.13	.21	.061	.003	.19	.002	.002	.003	.008
%RSD	.4716	.3111	.5256	2.966	.1325	.4691	.1075	.0978	.1560	.4018
#1	40.96	40.96	40.48	2.082	2.019	40.87	2.021	1.987	2.017	2.019
#2	40.76	40.78	40.54	1.991	2.024	40.59	2.025	1.990	2.015	2.012
#3	40.57	40.72	40.15	2.107	2.024	40.51	2.022	1.987	2.021	2.028
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value										
Range										

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.073	2.012	2.014	2.041	2.007	2.003	2.025
Stddev	.001	.002	.011	.005	.005	.009	.002
%RSD	.0595	.0933	.5470	.2636	.2328	.4762	.1020
#1	2.072	2.011	2.027	2.046	2.002	2.010	2.023
#2	2.072	2.014	2.009	2.035	2.011	1.992	2.027
#3	2.074	2.011	2.007	2.042	2.007	2.006	2.024
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Zoom In Zoom Out

Sample Name: CCV Acquired: 4/3/2015 9:24:48 Type: QC
Method: 60102007_042011(v210) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3100.1	7569.1	49867.	2051.8
Stddev	2.6	10.1	726.	16.3
%RSD	.08317	.13317	1.4568	.79667
#1	3097.8	7561.4	49162.	2066.2
#2	3102.9	7580.5	50613.	2034.0
#3	3099.6	7565.4	49826.	2055.1

Zoom In Zoom Out

Sample Name: CCB Acquired: 4/3/2015 9:30:30 Type: QC
Method: 60102007_042011(v210) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0001	-.0194	.0004	.0004	.0000	.0029	.0000	.0001	.0004
Stddev	.0006	.0299	.0003	.0008	.0002	.0012	.0000	.0001	.0005
%RSD	463.2	154.3	75.68	211.8	648.2	41.84	116.3	86.53	135.5
#1	.0003	-.0479	.0006	.0013	-.0001	.0032	.0000	.0001	-.0001
#2	-.0006	.0117	.0001	-.0001	.0000	.0040	.0000	.0000	.0009
#3	.0006	-.0219	.0005	-.0001	.0002	.0016	.0000	.0001	.0004
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0002	.0084	.1995	.0165	.0001	F.0011	.0255	.0002	.0002
Stddev	.0006	.0055	.0432	.0111	.0001	.0002	.0228	.0002	.0010
%RSD	349.3	65.91	21.66	67.29	68.02	19.21	89.40	96.75	534.3
#1	.0008	.0089	.2426	.0037	.0000	.0011	.0243	.0004	.0012
#2	-.0003	.0026	.1562	.0229	.0001	.0014	.0033	.0003	-.0007
#3	.0000	.0136	.1999	.0229	.0001	.0010	.0488	.0000	.0000
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit						.0010			
Low Limit						-.0010			

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F.0025	.0011	.0000	.0002	.0001	.0008	-.0006	-.0002	.0001
Stddev	.0014	.0011	.001	.0004	.0005	.0000	.0013	.0005	.0001
%RSD	57.01	95.59	2232.	190.0	424.5	5.439	225.3	200.1	68.61
#1	.0042	.0003	-.0009	.0006	.0006	.0008	-.0005	-.0007	.0002
#2	.0015	.0023	.0003	.0001	.0002	.0008	-.0019	-.0003	.0000
#3	.0019	.0007	.0005	-.0001	-.0004	.0008	.0007	.0002	.0002
Check ?	Chk Fail	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	.0020								
Low Limit	-.0020								

Zoom In
Zoom Out

Sample Name: CCB Acquired: 4/3/2015 9:30:30 Type: QC
Method: 60102007_042011(v210) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3715.0	8164.3	54058.	2157.7
Stddev	8.9	21.6	127.	12.9
%RSD	.24012	.26512	.23482	.59847
#1	3713.5	8183.8	54122.	2165.9
#2	3706.9	8141.0	53912.	2164.4
#3	3724.6	8168.2	54140.	2142.8

Zoom In
Zoom Out

Sample Name: FA23034-5 Acquired: 4/3/2015 9:34:43 Type: Unk
Method: 60102007_042011(v210) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)
Avg	.0014	.1454	.0009	.0146	-.0001	5.364	.1361	.1750	.0120
Stddev	.0010	.0225	.0006	.0008	.0001	.026	.0002	.0003	.0005
%RSD	73.48	15.48	65.03	5.290	191.3	.4941	.1188	.1702	4.271
#1	.0025	.1657	.0005	.0155	-.0002	5.376	.1359	.1746	.0116
#2	.0006	.1492	.0015	.0142	-.0001	5.333	.1362	.1752	.0118
#3	.0010	.1212	.0006	.0141	.0001	5.382	.1362	.1751	.0125

Elem	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
IS Ref	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)
Avg	.1653	.0568	5.035	1.120	.0313	.1326	F171.9	.3345	.0102
Stddev	.0003	.0043	.060	.009	.0001	.0003	1.3	.0005	.0014
%RSD	.1784	7.492	1.190	.7855	.3112	.2532	.7704	.1400	13.69
#1	.1655	.0595	5.090	1.127	.0312	.1327	173.3	.3340	.0086
#2	.1655	.0519	5.043	1.110	.0313	.1322	170.6	.3346	.0111
#3	.1650	.0591	4.971	1.122	.0314	.1329	171.8	.3350	.0111

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	.4376	.0040	.1249	.0010	.1794	.0091	-.0024	.0019	.0935
Stddev	.0034	.0028	.0003	.0002	.0012	.0001	.0006	.0003	.0002
%RSD	.7721	70.14	.2127	25.51	.6636	.6915	25.53	13.83	.1901
#1	.4339	.0012	.1251	.0012	.1804	.0091	-.0026	.0016	.0933
#2	.4404	.0069	.1246	.0007	.1781	.0092	-.0029	.0019	.0936
#3	.4385	.0040	.1250	.0010	.1797	.0091	-.0017	.0021	.0935

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	3254.9	7820.3	50775.	2125.9
Stddev	2.7	6.3	228.	6.5
%RSD	.08191	.08021	.44858	.30548
#1	3254.9	7820.4	50988.	2124.3
#2	3257.5	7814.0	50803.	2133.0
#3	3252.2	7826.5	50535.	2120.3

Zoom In
Zoom Out

Sample Name: FA23034-6 Acquired: 4/3/2015 9:39:10 Type: Unk
Method: 60102007_042011(v210) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)
Avg	.0011	.1728	-.0010	.1024	.0004	6.428	.3112	.0106	.0182
Stddev	.0015	.0089	.0010	.0016	.0001	.040	.0004	.0001	.0004
%RSD	131.3	5.148	95.71	1.582	17.51	.6255	.1359	.8783	1.981
#1	.0029	.1699	-.0002	.1038	.0004	6.452	.3117	.0107	.0186
#2	.0002	.1658	-.0008	.1006	.0004	6.382	.3108	.0105	.0180
#3	.0003	.1828	-.0021	.1028	.0005	6.451	.3112	.0105	.0181

Elem	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
IS Ref	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)
Avg	.1416	.0221	6.978	.8978	.1094	.0140	F165.3	.0209	.0087
Stddev	.0004	.0017	.095	.0278	.0002	.0002	1.1	.0001	.0012
%RSD	.2621	7.688	1.354	3.096	.1468	1.417	.6389	.6049	13.41
#1	.1412	.0206	6.892	.9207	.1092	.0140	166.5	.0209	.0078
#2	.1419	.0239	6.963	.8669	.1093	.0138	164.5	.0210	.0084
#3	.1418	.0219	7.079	.9058	.1095	.0141	165.0	.0208	.0100

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	.1660	.0015	.1598	.0004	.1657	.0010	-.0025	.0000	.1660
Stddev	.0012	.0027	.0003	.0001	.0009	.0001	.0008	.001	.0002
%RSD	.7511	177.4	.1602	26.79	.5141	12.24	33.42	1837.	.1059
#1	.1649	-.0012	.1597	.0004	.1667	.0009	-.0034	.0006	.1658
#2	.1673	.0042	.1600	.0003	.1650	.0011	-.0018	-.0001	.1660
#3	.1659	.0015	.1595	.0005	.1655	.0011	-.0022	-.0005	.1661

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	3240.5	7778.1	50459.	2102.6
Stddev	16.4	45.8	473.	13.1
%RSD	.50567	.58916	.93729	.62108
#1	3222.3	7726.2	50930.	2089.6
#2	3254.2	7813.1	49984.	2102.4
#3	3244.9	7795.1	50462.	2115.8

Zoom In
Zoom Out

Sample Name: FA23034-7 Acquired: 4/3/2015 9:43:36 Type: Unk
Method: 60102007_042011(v210) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)
Avg	.0007	.1118	-.0014	.0488	.0000	4.410	.4439	.0016	.0218
Stddev	.0004	.0147	.0011	.0004	.0001	.038	.0007	.0003	.0003
%RSD	54.47	13.13	78.42	.7888	522.6	.8533	.1469	16.38	1.169
#1	.0007	.1013	-.0027	.0493	-.0001	4.427	.4445	.0017	.0216
#2	.0003	.1055	-.0009	.0488	.0001	4.367	.4432	.0017	.0221
#3	.0011	.1286	-.0007	.0485	.0001	4.436	.4438	.0013	.0217

Elem	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
IS Ref	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)
Avg	.0030	.1319	3.781	.6710	.0405	.0079	F162.4	.0109	.0078
Stddev	.0004	.0025	.058	.0414	.0002	.0001	1.4	.0001	.0005
%RSD	14.58	1.863	1.529	6.165	.4934	1.372	.8658	.6300	6.558
#1	.0029	.1291	3.782	.6977	.0404	.0080	162.9	.0109	.0079
#2	.0035	.1336	3.722	.6919	.0404	.0080	160.9	.0109	.0072
#3	.0027	.1331	3.838	.6233	.0407	.0078	163.6	.0110	.0082

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	.0974	.0013	.0992	.0002	.2582	.0007	-.0010	-.0002	.1871
Stddev	.0016	.0027	.0007	.0004	.0025	.0001	.0008	.0003	.0002
%RSD	1.676	208.0	.7385	219.8	.9842	14.22	86.36	146.6	.0926
#1	.0991	.0042	.1000	.0003	.2584	.0008	-.0004	.0001	.1873
#2	.0958	.0005	.0985	.0005	.2555	.0007	-.0019	-.0005	.1870
#3	.0973	-.0009	.0992	-.0003	.2606	.0006	-.0005	-.0002	.1871

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	3254.9	7810.7	50925.	2107.5
Stddev	9.7	19.6	306.	13.4
%RSD	.29682	.25143	.60058	.63705
#1	3249.2	7793.8	50573.	2116.1
#2	3266.1	7832.2	51071.	2114.3
#3	3249.4	7805.9	51131.	2092.0

Zoom In Zoom Out

Sample Name: FA23034-8 Acquired: 4/3/2015 9:48:01 Type: Unk
Method: 60102007_042011(v210) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)
Avg	.0004	.0226	-.0003	.0060	.0000	3.680	.0395	.0002	.0034
Stddev	.0006	.0135	.0010	.0009	.000	.009	.0001	.0002	.0005
%RSD	128.3	59.51	298.9	15.59	50.46	.2396	.2323	79.75	14.84
#1	-.0002	.0082	.0007	.0062	.0000	3.688	.0394	.0002	.0033
#2	.0005	.0348	-.0005	.0069	.0000	3.670	.0394	.0004	.0039
#3	.0010	.0249	-.0013	.0050	-.0001	3.682	.0396	.0000	.0030

Elem	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
IS Ref	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)
Avg	.0185	.2266	.9871	.6136	.0208	.0008	F164.9	.0156	.0008
Stddev	.0003	.0094	.0621	.0018	.0002	.0002	1.1	.0004	.0019
%RSD	1.887	4.157	6.291	.2860	.8226	20.27	.6538	2.290	235.4
#1	.0182	.2314	1.008	.6153	.0208	.0007	165.4	.0155	.0000
#2	.0189	.2327	.9173	.6118	.0207	.0007	165.6	.0153	.0030
#3	.0184	.2158	1.036	.6138	.0210	.0010	163.7	.0160	-.0005

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	.0023	.0003	.0721	.0005	.1084	.0004	-.0023	-.0002	.0838
Stddev	.0025	.0032	.0003	.0001	.0006	.0003	.0010	.0003	.0002
%RSD	108.5	950.4	.4283	22.35	.5620	63.63	42.98	129.9	.2680
#1	.0022	-.0033	.0721	.0007	.1087	.0005	-.0034	-.0004	.0839
#2	-.0001	.0023	.0717	.0005	.1088	.0006	-.0019	-.0004	.0835
#3	.0048	.0020	.0724	.0004	.1077	.0001	-.0015	.0001	.0839

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	3275.6	7841.3	50304.	2105.3
Stddev	15.8	34.9	593.	12.0
%RSD	.48213	.44526	1.1781	.57068
#1	3259.2	7801.8	50933.	2105.1
#2	3290.7	7868.1	50224.	2093.4
#3	3276.8	7854.0	49756.	2117.5

Zoom In Zoom Out

Sample Name: FA23034-9 Acquired: 4/3/2015 9:52:27 Type: Unk
Method: 60102007_042011(v210) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)
Avg	.0006	.0014	-.0008	.0136	-.0002	4.259	.0005	.0000	.0059
Stddev	.0002	.0058	.0012	.0005	.0000	.050	.0001	.0001	.0001
%RSD	28.48	413.7	148.7	3.349	5.920	1.176	11.07	386.1	1.862
#1	.0006	.0005	.0004	.0136	-.0002	4.204	.0005	.0000	.0060
#2	.0005	-.0039	-.0009	.0141	-.0002	4.302	.0004	.0001	.0058
#3	.0008	.0077	-.0019	.0132	-.0002	4.272	.0005	.0000	.0057

Elem	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
IS Ref	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)
Avg	.0002	.1919	.8303	.4231	.0263	.2064	F159.7	.0002	.0011
Stddev	.0006	.0023	.1146	.0417	.0001	.0007	.7	.0004	.0002
%RSD	264.1	1.223	13.80	9.848	.4345	.3621	.4583	211.8	14.55
#1	-.0004	.1919	.8309	.4671	.0262	.2065	159.2	.0004	.0009
#2	.0009	.1943	.7154	.3842	.0262	.2071	160.6	.0005	.0012
#3	.0002	.1896	.9445	.4180	.0264	.2056	159.4	-.0003	.0012

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	.0021	-.0011	.1693	.0000	.1030	.0018	-.0019	-.0001	1.241
Stddev	.0021	.0019	.0011	.0003	.0005	.0003	.0012	.0004	.002
%RSD	97.94	176.0	.6358	1021.	.4780	19.45	61.56	390.0	.1197
#1	.0045	-.0003	.1686	.0003	.1031	.0014	-.0018	.0004	1.242
#2	.0013	-.0032	.1689	-.0002	.1033	.0020	-.0031	-.0005	1.241
#3	.0006	.0003	.1706	-.0001	.1024	.0018	-.0008	-.0003	1.239

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	3204.0	7704.3	49966.	2120.7
Stddev	8.4	20.8	361.	18.9
%RSD	.26077	.27044	.72221	.89238
#1	3201.0	7697.3	49717.	2129.9
#2	3213.5	7727.7	50380.	2133.2
#3	3197.6	7687.9	49801.	2098.9

Zoom In Zoom Out

Sample Name: FA23034-10 Acquired: 4/3/2015 9:56:52 Type: Unk
Method: 60102007_042011(v210) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)
Avg	-.0002	.0722	.0001	3.874	-.0001	12.51	.3896	.0030	.0128
Stddev	.0007	.0296	.0013	.001	.0000	.02	.0005	.0000	.0002
%RSD	403.8	40.94	975.8	.0239	40.93	.1290	.1223	1.048	1.258
#1	-.0006	.0871	-.0013	3.875	-.0002	12.53	.3901	.0030	.0128
#2	-.0005	.0382	.0013	3.873	-.0001	12.50	.3892	.0030	.0126
#3	.0006	.0913	.0004	3.875	-.0001	12.50	.3894	.0029	.0129

Elem	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
IS Ref	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)
Avg	F12.34	.1296	1.311	.9936	.2268	.2160	F162.9	.0268	.0268
Stddev	.14	.0038	.046	.0373	.0003	.0004	.2	.0002	.0002
%RSD	1.098	2.917	3.515	3.756	.1389	.2023	.1483	.7264	.8992
#1	12.48	.1256	1.261	.9981	.2265	.2165	163.1	.0270	.0270
#2	12.21	.1331	1.351	1.028	.2271	.2159	162.8	.0266	.0265
#3	12.33	.1302	1.323	.9542	.2269	.2157	162.7	.0267	.0269

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	.1690	.0042	.4408	.0001	.3189	.0014	-.0009	.0002	.8460
Stddev	.0022	.0018	.0003	.0002	.0007	.0002	.0014	.0004	.0017
%RSD	1.312	42.22	.0573	227.9	.2324	16.67	157.5	246.8	.1971
#1	.1714	.0037	.4410	.0003	.3193	.0016	-.0025	-.0001	.8479
#2	.1670	.0027	.4408	-.0002	.3193	.0015	-.0001	.0000	.8453
#3	.1687	.0061	.4405	.0002	.3180	.0011	-.0001	.0006	.8448

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	3235.7	7691.8	50103.	2097.0
Stddev	9.5	16.9	615.	17.3
%RSD	.29491	.21983	1.2274	.82285
#1	3233.2	7682.3	50430.	2077.1
#2	3227.7	7681.8	50485.	2106.3
#3	3246.3	7711.4	49393.	2107.6

Zoom In Zoom Out

Sample Name: FA23034-11 Acquired: 4/3/2015 10:01:26 Type: Unk
Method: 60102007_042011(v210) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)
Avg	.0005	.1642	-.0006	.0220	.0000	8.047	.2232	.0005	.0199
Stddev	.0004	.0295	.0014	.0011	.000	.036	.0001	.0002	.0003
%RSD	82.38	17.94	237.0	4.796	2253.	.4430	.0345	34.13	1.704
#1	.0009	.1634	-.0015	.0217	.0000	8.088	.2231	.0007	.0196
#2	.0001	.1941	-.0013	.0231	.0001	8.028	.2232	.0004	.0202
#3	.0004	.1352	.0010	.0211	-.0001	8.026	.2231	.0003	.0199

Elem	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
IS Ref	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)
Avg	.0252	.0442	1.074	1.226	.0412	.0031	F165.5	.0106	.0009
Stddev	.0004	.0020	.017	.043	.0000	.0001	1.6	.0003	.0008
%RSD	1.777	4.443	1.589	3.546	.0944	4.058	.9398	3.117	92.54
#1	.0247	.0464	1.055	1.194	.0412	.0031	167.1	.0105	.0018
#2	.0252	.0428	1.080	1.275	.0412	.0029	165.2	.0104	.0006
#3	.0256	.0432	1.088	1.208	.0411	.0032	164.1	.0110	.0002

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	.0070	-.0003	.1403	.0004	.2067	.0011	-.0020	.0001	.0975
Stddev	.0005	.0009	.0006	.0001	.0017	.0002	.0009	.0009	.0001
%RSD	7.278	284.7	.4520	22.26	.8293	19.77	45.65	917.0	.0984
#1	.0071	.0007	.1409	.0004	.2081	.0009	-.0024	.0007	.0976
#2	.0064	-.0009	.1397	.0003	.2072	.0011	-.0026	-.0009	.0974
#3	.0074	-.0007	.1401	.0005	.2048	.0014	-.0009	.0005	.0974

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	3202.7	7688.1	49518.	2080.2
Stddev	3.4	10.3	74.	8.3
%RSD	.10492	.13395	.14934	.39746
#1	3203.8	7700.0	49552.	2075.2
#2	3205.4	7682.5	49568.	2075.5
#3	3199.0	7681.8	49433.	2089.7

Zoom In Zoom Out

Sample Name: FA23034-12 Acquired: 4/3/2015 10:05:52 Type: Unk
Method: 60102007_042011(v210) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)
Avg	.0012	.0796	-.0010	.0380	-.0001	13.19	.0916	.0001	.7373
Stddev	.0005	.0579	.0008	.0002	.0002	.07	.0001	.0001	.0004
%RSD	44.82	72.79	75.11	.4011	210.7	.5639	.1567	103.4	.0491
#1	.0017	.0675	-.0018	.0381	.0001	13.12	.0917	.0000	.7371
#2	.0013	.0287	-.0004	.0381	-.0001	13.27	.0915	.0002	.7370
#3	.0006	.1426	-.0008	.0378	-.0002	13.17	.0917	.0001	.7377

Elem	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
IS Ref	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)
Avg	.0100	.1263	.8938	.8628	.2152	.0004	F163.3	.0033	.0014
Stddev	.0003	.0031	.0161	.0092	.0005	.0002	.5	.0001	.0006
%RSD	2.599	2.458	1.802	1.063	.2137	54.00	.3143	4.518	42.06
#1	.0101	.1294	.9114	.8543	.2147	.0003	162.8	.0033	.0008
#2	.0102	.1232	.8903	.8616	.2156	.0007	163.8	.0031	.0020
#3	.0097	.1263	.8798	.8725	.2153	.0003	163.3	.0034	.0014

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	.0047	.0017	.1122	.0002	1.479	.0015	-.0020	-.0003	.0603
Stddev	.0003	.0006	.0017	.0006	.006	.0001	.0011	.0008	.0001
%RSD	7.389	35.88	1.503	276.4	.4311	5.343	55.40	253.0	.1309
#1	.0050	.0015	.1119	.0002	1.473	.0014	-.0008	-.0011	.0603
#2	.0044	.0012	.1140	-.0004	1.485	.0015	-.0030	.0004	.0603
#3	.0046	.0024	.1106	.0008	1.479	.0016	-.0023	-.0002	.0602

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	3228.6	7723.8	49882.	2058.7
Stddev	8.8	18.1	84.	16.9
%RSD	.27172	.23370	.16829	.81913
#1	3218.5	7703.6	49978.	2075.2
#2	3233.9	7738.2	49844.	2059.4
#3	3233.4	7729.6	49823.	2041.4

Zoom In Zoom Out

Sample Name: FA23181-1L Acquired: 4/3/2015 10:10:17 Type: Unk
Method: 60102007_042011(v210) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)
Avg	.0010	.0183	-.0011	.2170	.0000	31.68	.0000	.0077	.0009
Stddev	.0005	.0334	.0008	.0005	.0002	.12	.000	.0002	.0003
%RSD	47.24	182.6	72.78	.2328	960.0	.3771	177.5	2.279	27.60
#1	.0013	-.0124	-.0012	.2175	.0001	31.72	-.0001	.0077	.0008
#2	.0005	.0539	-.0003	.2169	-.0002	31.55	.0000	.0079	.0007
#3	.0014	.0134	-.0019	.2165	.0002	31.78	.0000	.0076	.0012

Elem	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
IS Ref	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)
Avg	.0017	.1031	.5571	3.047	1.351	.0000	F163.8	.0070	-.0004
Stddev	.0005	.0055	.0200	.044	.003	.0002	.5	.0002	.0010
%RSD	28.71	5.382	3.598	1.442	.2490	1910.	.3082	2.684	255.6
#1	.0023	.1093	.5347	3.092	1.354	-.0001	164.1	.0068	-.0009
#2	.0014	.1014	.5631	3.046	1.352	.0002	163.2	.0071	.0007
#3	.0015	.0986	.5734	3.004	1.348	.0000	164.0	.0072	-.0010

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	-.0001	.0029	.2126	.0003	.0228	.0019	-.0024	-.0002	.0062
Stddev	.0023	.0011	.0044	.0001	.0002	.0002	.0006	.0002	.0000
%RSD	1909.	38.14	2.070	39.65	.8146	10.42	27.13	108.0	.4344
#1	.0025	.0023	.2110	.0002	.0230	.0021	-.0016	-.0005	.0062
#2	-.0012	.0042	.2093	.0004	.0226	.0017	-.0028	-.0002	.0062
#3	-.0016	.0023	.2176	.0004	.0228	.0019	-.0026	.0000	.0062

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	3195.3	7746.9	49635.	2062.3
Stddev	15.4	31.7	266.	5.6
%RSD	.48058	.40859	.53580	.26992
#1	3181.8	7716.9	49441.	2065.5
#2	3192.1	7743.7	49525.	2065.4
#3	3212.0	7780.0	49938.	2055.8

Zoom In Zoom Out

Sample Name: FA23204-1 Acquired: 4/3/2015 10:14:45 Type: Unk
Method: 60102007_042011(v210) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	-.0009	.0381	-.0019	.0033	.0000	4.006	.0003	.0170	1.948	.0044
Stddev	.0006	.0102	.0005	.0005	.000	.033	.0000	.0001	.005	.0005
%RSD	70.53	26.71	26.97	14.57	5029.	.8201	9.923	.3052	.2461	11.09
#1	-.0015	.0299	-.0014	.0027	.0000	3.975	.0003	.0170	1.954	.0039
#2	-.0003	.0350	-.0024	.0037	.0002	4.001	.0003	.0170	1.946	.0049
#3	-.0008	.0495	-.0020	.0033	-.0002	4.040	.0003	.0169	1.945	.0045

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	88.79	.4351	2.103	1.271	.0302	13.07	.9518	.0088	-.0014	.0099
Stddev	.37	.0396	.064	.003	.0001	.05	.0006	.0010	.0012	.0011
%RSD	.4200	9.098	3.022	.2386	.4408	.3832	.0598	11.66	86.64	11.32
#1	88.40	.4042	2.067	1.275	.0303	13.01	.9512	.0089	-.0028	.0089
#2	88.81	.4797	2.066	1.269	.0301	13.09	.9519	.0098	-.0007	.0099
#3	89.15	.4214	2.177	1.270	.0302	13.11	.9523	.0078	-.0007	.0111

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	1.205	.0016	.0400	.0071	-.0036	.0068	1.527
Stddev	.002	.0004	.0002	.0002	.0018	.0006	.001
%RSD	.1549	22.36	.5569	2.310	50.80	8.984	.0550
#1	1.207	.0019	.0401	.0072	-.0031	.0069	1.528
#2	1.204	.0017	.0397	.0070	-.0020	.0061	1.528
#3	1.203	.0012	.0401	.0073	-.0056	.0073	1.526

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	3598.6	7929.8	54022.	2218.4
Stddev	12.0	28.6	476.	36.0
%RSD	.33432	.36099	.88200	1.6228
#1	3609.5	7949.5	53478.	2218.9
#2	3585.7	7897.0	54363.	2254.2
#3	3600.6	7942.9	54226.	2182.2

Zoom In Zoom Out

Sample Name: CCV Acquired: 4/3/2015 10:19:10 Type: QC
Method: 60102007_042011(v210) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2415	39.67	1.964	1.978	1.982	39.29	1.974	1.977	1.969	1.982
Stddev	.0001	.24	.005	.014	.013	.23	.002	.001	.004	.004
%RSD	.0602	.5993	.2674	.7144	.6738	.5783	.1221	.0439	.1925	.2085
#1	.2416	39.48	1.967	1.969	1.974	39.13	1.974	1.977	1.973	1.986
#2	.2415	39.94	1.958	1.994	1.997	39.55	1.972	1.976	1.967	1.983
#3	.2413	39.61	1.967	1.970	1.974	39.19	1.977	1.977	1.967	1.978
Check ?	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass
Value										
Range										

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	39.92	39.75	39.15	1.968	1.978	39.72	1.965	1.908	1.979	1.962
Stddev	.24	.23	.24	.012	.004	.27	.002	.003	.003	.003
%RSD	.6028	.5734	.6148	.6262	.2112	.6883	.0992	.1504	.1387	.1648
#1	39.75	39.52	39.03	1.959	1.974	39.57	1.967	1.905	1.975	1.961
#2	40.19	39.98	39.42	1.963	1.977	40.04	1.963	1.907	1.980	1.966
#3	39.81	39.76	38.98	1.982	1.982	39.55	1.964	1.911	1.980	1.959
Check ?	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass
Value										
Range										

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.032	1.939	1.974	1.983	1.942	1.944	1.943
Stddev	.001	.003	.012	.006	.002	.005	.001
%RSD	.0445	.1328	.5893	.3030	.0761	.2401	.0624
#1	2.031	1.942	1.966	1.990	1.942	1.949	1.944
#2	2.032	1.937	1.987	1.980	1.944	1.941	1.941
#3	2.033	1.939	1.969	1.979	1.941	1.941	1.942
Check ?	None	Chk	Pass	Chk	Pass	Chk	Pass
Value							
Range							

Zoom In
Zoom Out

Sample Name: CCV Acquired: 4/3/2015 10:19:10 Type: QC
Method: 60102007_042011(v210) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3220.5	7850.3	52386.	2209.1
Stddev	14.2	38.0	375.	15.6
%RSD	.44135	.48456	.71639	.70681
#1	3221.1	7838.9	52086.	2205.5
#2	3234.3	7892.8	52266.	2226.1
#3	3205.9	7819.3	52807.	2195.5

Zoom In
Zoom Out

Sample Name: CCB Acquired: 4/3/2015 10:23:41 Type: QC
Method: 60102007_042011(v210) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0001	.0210	.0007	.0007	-.0001	-.0038	.0001	.0001	.0003
Stddev	.0007	.0232	.0004	.0006	.0001	.0011	.0000	.0001	.0001
%RSD	1379.	110.3	62.23	80.47	106.6	30.55	58.44	63.14	44.01
#1	.0003	.0244	.0011	.0013	.0000	-.0045	.0001	.0001	.0003
#2	.0004	-.0037	.0009	.0006	-.0002	-.0024	.0001	.0001	.0005
#3	-.0008	.0423	.0002	.0002	-.0002	-.0044	.0000	.0000	.0002
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0003	.0098	.1486	.0116	.0000	F.0018	.0895	.0002	.0006
Stddev	.0001	.0047	.0551	.0139	.000	.0003	.0118	.0003	.0006
%RSD	34.06	48.48	37.08	119.1	520.2	15.39	13.14	122.0	101.1
#1	.0003	.0150	.1868	-.0022	-.0001	.0021	.0762	-.0001	.0002
#2	.0002	.0086	.0854	.0117	.0000	.0017	.0987	.0004	.0012
#3	.0004	.0057	.1734	.0255	.0000	.0016	.0936	.0003	.0003
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit						.0010			
Low Limit						-.0010			

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0006	F.0022	.0009	.0004	-.0003	.0009	.0004	.0003	.0001
Stddev	.0008	.0032	.0007	.0002	.0002	.0001	.0005	.0007	.0000
%RSD	125.1	146.6	76.10	58.29	84.04	11.17	144.4	255.7	43.90
#1	-.0001	.0014	.0002	.0006	-.0002	.0010	.0000	.0004	.0001
#2	-.0003	-.0006	.0016	.0002	-.0001	.0010	.0002	.0008	.0002
#3	-.0016	.0057	.0010	.0004	-.0005	.0008	.0009	-.0005	.0001
Check ?	Chk Pass	Chk Fail	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit		.0020							
Low Limit		-.0020							

Zoom In
Zoom Out

Sample Name: CCB Acquired: 4/3/2015 10:23:41 Type: QC
Method: 60102007_042011(v210) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3729.1	8175.0	54694.	2227.7
Stddev	3.7	8.4	454.	28.8
%RSD	.09885	.10317	.83007	1.2938
#1	3724.9	8167.3	54972.	2194.5
#2	3731.9	8173.6	54170.	2246.5
#3	3730.4	8184.0	54939.	2242.1

Zoom In
Zoom Out

Sample Name: MP28748-D2 Acquired: 4/3/2015 11:05:33 Type: Unk
Method: 60102007_042011(v210) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)
Avg	.0001	.0275	-.0017	.1893	.0003	13.51	.0000	.0078	.0003
Stddev	.0004	.0091	.0016	.0005	.0000	.08	.000	.0002	.0002
%RSD	606.7	33.03	98.34	.2573	7.942	.6249	197.1	2.200	67.56
#1	-.0002	.0376	.0002	.1888	.0003	13.48	-.0001	.0077	.0001
#2	-.0001	.0250	-.0028	.1898	.0004	13.61	.0000	.0077	.0006
#3	.0006	.0199	-.0024	.1892	.0003	13.45	-.0001	.0080	.0004

Elem	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
IS Ref	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)
Avg	.0027	.2635	.5305	2.879	.9006	.0000	F162.9	.0066	.0000
Stddev	.0004	.0132	.0366	.026	.0007	.000	1.2	.0002	.001
%RSD	16.01	5.004	6.894	.8952	.0815	7828.	.7206	3.376	2786.
#1	.0027	.2782	.4884	2.886	.8999	-.0003	162.8	.0068	-.0007
#2	.0022	.2527	.5545	2.900	.9007	.0000	164.1	.0067	.0003
#3	.0031	.2596	.5486	2.850	.9013	.0003	161.8	.0064	.0003

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	-.0009	.0037	.1990	.0003	.0140	.0008	-.0014	.0004	.0058
Stddev	.0001	.0036	.0003	.0002	.0004	.0001	.0015	.0003	.0001
%RSD	9.756	97.06	.1731	72.66	2.951	13.27	107.2	68.60	1.663
#1	-.0008	.0001	.1988	.0004	.0144	.0008	-.0004	.0001	.0058
#2	-.0009	.0039	.1994	.0001	.0141	.0007	-.0007	.0005	.0057
#3	-.0009	.0073	.1987	.0005	.0136	.0009	-.0032	.0006	.0059

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	3308.1	7955.9	52341.	2236.1
Stddev	5.4	18.7	175.	26.0
%RSD	.16385	.23503	.33447	1.1649
#1	3302.0	7944.8	52184.	2256.1
#2	3310.0	7945.5	52530.	2206.6
#3	3312.3	7977.5	52310.	2245.5

Zoom In
Zoom Out

Sample Name: MP28748-MB2 Acquired: 4/3/2015 11:10:00 Type: Unk
Method: 60102007_042011(v210) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)
Avg	-.0001	.0107	-.0012	.0008	-.0002	.0345	-.0001	.0000	.0003
Stddev	.0003	.0019	.0011	.0005	.0001	.0053	.0000	.0001	.0001
%RSD	326.9	17.40	89.31	64.43	35.70	15.20	14.29	1266.	26.03
#1	-.0003	.0093	-.0013	.0010	-.0002	.0301	-.0001	.0001	.0003
#2	-.0002	.0100	-.0001	.0002	-.0003	.0404	-.0001	-.0001	.0003
#3	.0002	.0128	-.0022	.0013	-.0002	.0331	-.0001	.0000	.0002

Elem	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
IS Ref	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)
Avg	.0005	-.0022	.1467	-.0272	.0000	-.0002	F99.00	.0010	.0006
Stddev	.0003	.0007	.0212	.0047	.000	.0002	.19	.0000	.0008
%RSD	50.97	30.23	14.46	17.23	647.8	69.95	.1879	2.532	139.4
#1	.0002	-.0016	.1347	-.0256	.0000	-.0003	98.87	.0010	.0014
#2	.0006	-.0029	.1342	-.0325	.0000	-.0004	98.92	.0010	.0000
#3	.0008	-.0021	.1712	-.0236	.0000	-.0001	99.21	.0010	.0002

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	-.0005	.0020	.0218	.0003	.0000	-.0002	-.0016	.0004	.0010
Stddev	.0028	.0007	.0007	.0001	.0000	.0002	.0013	.0005	.0001
%RSD	579.9	38.36	3.293	35.08	166.2	100.5	79.88	142.8	10.35
#1	-.0018	.0017	.0212	.0003	.0001	-.0001	-.0001	-.0002	.0010
#2	.0027	.0028	.0226	.0002	.0000	-.0004	-.0022	.0004	.0009
#3	-.0024	.0014	.0217	.0003	.0000	.0000	-.0025	.0009	.0012

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	3380.5	7969.8	53008.	2247.3
Stddev	21.3	43.6	110.	39.6
%RSD	.62933	.54704	.20694	1.7615
#1	3403.8	8017.2	52883.	2290.0
#2	3362.1	7931.4	53087.	2240.3
#3	3375.6	7960.7	53054.	2211.7

Zoom In
Zoom Out

Sample Name: MP28748-B2 Acquired: 4/3/2015 11:14:29 Type: Unk
Method: 60102007_042011(v210) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)
Avg	.0475	27.49	2.038	2.060	.0525	25.38	.0500	.5046	.2098
Stddev	.0005	.05	.002	.004	.0001	.03	.0001	.0002	.0002
%RSD	1.079	.1859	.1128	.1676	.2567	.1303	.2509	.0304	.0900
#1	.0469	27.45	2.040	2.059	.0527	25.42	.0498	.5045	.2099
#2	.0478	27.55	2.039	2.064	.0524	25.37	.0500	.5048	.2096
#3	.0477	27.47	2.036	2.057	.0524	25.35	.0501	.5045	.2100

Elem	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
IS Ref	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)
Avg	.2595	26.49	25.92	24.93	.5171	.4963	F125.6	.5152	.4932
Stddev	.0012	.07	.10	.18	.0010	.0005	.2	.0004	.0020
%RSD	.4461	.2510	.4035	.7413	.2022	.1056	.1704	.0815	.3982
#1	.2581	26.49	25.84	24.78	.5161	.4965	125.6	.5153	.4935
#2	.2602	26.56	25.89	24.87	.5171	.4967	125.3	.5148	.4912
#3	.2601	26.43	26.04	25.13	.5182	.4957	125.7	.5156	.4951

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	.5041	2.038	.0310	.5060	.5029	.5042	1.991	.4957	.5081
Stddev	.0017	.002	.0013	.0008	.0007	.0015	.005	.0006	.0004
%RSD	.3345	.0897	4.085	.1630	.1489	.2966	.2576	.1258	.0758
#1	.5022	2.036	.0305	.5052	.5023	.5026	1.985	.4950	.5077
#2	.5052	2.040	.0301	.5068	.5027	.5045	1.994	.4960	.5082
#3	.5050	2.039	.0324	.5060	.5037	.5055	1.994	.4961	.5084

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	3269.8	7981.9	52056.	2211.8
Stddev	8.4	7.9	362.	19.2
%RSD	.25803	.09956	.69511	.86682
#1	3275.4	7990.8	52466.	2211.1
#2	3273.9	7975.5	51783.	2231.3
#3	3260.1	7979.5	51918.	2193.0

Zoom In
Zoom Out

Sample Name: MP28748-MB3 Acquired: 4/3/2015 11:18:50 Type: Unk
Method: 60102007_042011(v210) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)
Avg	-.0002	.0031	-.0001	.0006	-.0002	.0213	-.0001	-.0001	.0001
Stddev	.0006	.0102	.0007	.0008	.0000	.0072	.0000	.0002	.0000
%RSD	363.9	323.2	507.3	147.4	17.55	33.99	45.78	345.7	25.92
#1	-.0008	.0052	-.0009	.0000	-.0002	.0131	-.0001	-.0002	.0001
#2	-.0001	.0121	.0004	.0015	-.0002	.0267	-.0001	.0002	.0002
#3	.0004	-.0079	.0001	.0001	-.0002	.0241	-.0001	-.0001	.0001

Elem	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
IS Ref	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)
Avg	.0021	.0106	.3525	.0069	.0001	.0001	F150.3	.0002	-.0002
Stddev	.0002	.0019	.0269	.0181	.0001	.0003	.6	.0001	.0010
%RSD	11.86	18.41	7.627	262.7	128.1	193.7	.3869	57.74	678.3
#1	.0023	.0128	.3505	-.0075	.0000	.0005	151.0	.0003	-.0003
#2	.0018	.0091	.3804	.0272	.0001	.0000	150.0	.0002	-.0011
#3	.0021	.0099	.3267	.0010	.0002	.0000	149.9	.0001	.0009

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	-.0017	.0018	.0213	.0002	.0000	.0002	-.0011	.0002	.0026
Stddev	.0008	.0031	.0007	.0004	.000	.0002	.0007	.0009	.0000
%RSD	46.44	172.3	3.513	168.7	346.4	155.0	67.50	512.3	.6267
#1	-.0008	.0051	.0221	.0007	-.0002	-.0001	-.0019	.0005	.0026
#2	-.0023	.0015	.0213	.0000	-.0001	.0001	-.0007	-.0009	.0026
#3	-.0019	-.0012	.0206	.0000	.0001	.0004	-.0006	.0009	.0026

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	3333.1	7933.6	51760.	2203.2
Stddev	13.4	59.3	442.	18.1
%RSD	.40079	.74732	.85455	.82214
#1	3341.5	7978.8	52269.	2184.3
#2	3317.7	7866.5	51470.	2205.1
#3	3340.0	7955.5	51541.	2220.3

Zoom In
Zoom Out

Sample Name: MP28748-B3 Acquired: 4/3/2015 11:23:17 Type: Unk
Method: 60102007_042011(v210) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)
Avg	.0491	27.65	2.061	2.065	.0525	25.73	.0504	.5043	.2124
Stddev	.0006	.22	.003	.018	.0006	.25	.0002	.0005	.0004
%RSD	1.206	.7859	.1556	.8780	1.089	.9709	.4188	.0911	.2078
#1	.0493	27.46	2.059	2.049	.0521	25.49	.0502	.5038	.2129
#2	.0496	27.89	2.065	2.084	.0532	25.98	.0503	.5043	.2121
#3	.0485	27.60	2.061	2.061	.0523	25.71	.0506	.5047	.2121

Elem	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
IS Ref	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)
Avg	.2595	26.68	26.51	25.15	.5192	.4978	F174.6	.5146	.4994
Stddev	.0006	.24	.22	.23	.0008	.0004	1.4	.0006	.0032
%RSD	.2284	.8836	.8163	.9208	.1557	.0837	.7963	.1104	.6507
#1	.2599	26.45	26.31	24.90	.5187	.4975	173.3	.5141	.4958
#2	.2598	26.92	26.74	25.36	.5202	.4976	176.1	.5143	.5001
#3	.2588	26.68	26.48	25.19	.5188	.4982	174.3	.5152	.5022

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	.5060	2.065	.0277	.5083	.5048	.5062	1.996	.5001	.5127
Stddev	.0007	.001	.0012	.0003	.0045	.0013	.004	.0017	.0004
%RSD	.1338	.0572	4.321	.0572	.8895	.2570	.1970	.3477	.0774
#1	.5054	2.066	.0288	.5080	.5013	.5056	1.991	.4994	.5124
#2	.5058	2.064	.0264	.5082	.5099	.5077	1.998	.5021	.5125
#3	.5068	2.066	.0280	.5086	.5032	.5053	1.998	.4988	.5131

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	3218.0	7899.8	50828.	2171.1
Stddev	12.1	31.1	185.	24.3
%RSD	.37742	.39366	.36417	1.1197
#1	3227.1	7917.6	50675.	2196.2
#2	3204.2	7863.9	50774.	2169.3
#3	3222.8	7918.0	51034.	2147.7

Zoom In
Zoom Out

Sample Name: MP28748-MB4 Acquired: 4/3/2015 11:27:40 Type: Unk
Method: 60102007_042011(v210) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)
Avg	-.0004	.0346	-.0013	.0009	-.0001	.0111	-.0001	.0000	.0005
Stddev	.0002	.0225	.0007	.0006	.0001	.0009	.0000	.0001	.0000
%RSD	63.64	64.91	55.09	73.18	127.4	7.960	23.36	1945.	3.012
#1	-.0003	.0602	-.0021	.0007	-.0003	.0110	-.0001	.0002	.0005
#2	-.0007	.0181	-.0007	.0016	.0000	.0120	.0000	.0000	.0005
#3	-.0002	.0255	-.0011	.0003	-.0001	.0103	-.0001	-.0001	.0005

Elem	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
IS Ref	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)
Avg	.0000	.0053	.4788	-.0260	.0000	.0001	F164.3	.0003	-.0001
Stddev	.001	.0060	.0989	.0135	.0001	.0001	.5	.0002	.0013
%RSD	2488.	113.7	20.65	51.93	195.9	54.12	.3029	71.58	940.9
#1	.0006	.0091	.5434	-.0403	.0001	.0001	163.8	.0002	-.0007
#2	.0001	-.0017	.3650	-.0242	.0000	.0001	164.7	.0005	.0013
#3	-.0008	.0085	.5279	-.0135	.0000	.0002	164.4	.0002	-.0010

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	-.0017	.0019	.0203	.0001	.0001	.0001	-.0019	.0001	.0015
Stddev	.0017	.0030	.0006	.0003	.0004	.0003	.0010	.0004	.0000
%RSD	97.63	161.0	3.089	401.1	344.7	250.5	49.93	342.2	2.966
#1	-.0020	-.0016	.0199	-.0002	-.0001	.0004	-.0029	-.0002	.0014
#2	-.0032	.0039	.0210	.0000	-.0001	.0000	-.0019	.0006	.0015
#3	.0001	.0034	.0200	.0004	.0006	-.0001	-.0010	.0000	.0015

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	3327.0	7943.5	52322.	2209.8
Stddev	17.5	41.0	239.	6.3
%RSD	.52750	.51643	.45611	.28733
#1	3338.5	7967.2	52122.	2205.3
#2	3335.7	7967.1	52586.	2217.1
#3	3306.8	7896.1	52257.	2207.0

Zoom In
Zoom Out

Sample Name: MP28748-B4 Acquired: 4/3/2015 11:32:09 Type: Unk
Method: 60102007_042011(v210) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)
Avg	.0484	27.22	2.023	2.030	.0517	25.22	.0495	.4948	.2075
Stddev	.0006	.33	.005	.020	.0007	.27	.0002	.0004	.0009
%RSD	1.143	1.205	.2404	.9663	1.372	1.064	.3410	.0900	.4169
#1	.0479	26.91	2.024	2.010	.0513	24.94	.0493	.4943	.2085
#2	.0490	27.19	2.017	2.032	.0514	25.25	.0497	.4950	.2069
#3	.0483	27.57	2.027	2.049	.0525	25.47	.0495	.4951	.2070

Elem	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
IS Ref	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)
Avg	.2534	26.24	26.24	24.66	.5125	.4865	F187.0	.5052	.4907
Stddev	.0009	.26	.28	.32	.0004	.0006	1.9	.0005	.0005
%RSD	.3628	1.002	1.050	1.310	.0833	.1233	1.041	.0999	.0948
#1	.2530	26.00	25.99	24.32	.5129	.4858	185.0	.5049	.4913
#2	.2544	26.20	26.20	24.69	.5124	.4869	187.2	.5058	.4904
#3	.2527	26.52	26.53	24.96	.5121	.4868	188.9	.5049	.4906

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	.4954	2.030	.0308	.4986	.4946	.4961	1.960	.4897	.5056
Stddev	.0024	.002	.0013	.0003	.0051	.0002	.001	.0013	.0007
%RSD	.4936	.0921	4.263	.0694	1.037	.0318	.0711	.2696	.1296
#1	.4927	2.032	.0297	.4989	.4890	.4963	1.961	.4912	.5052
#2	.4958	2.028	.0304	.4982	.4956	.4961	1.959	.4886	.5053
#3	.4976	2.030	.0322	.4986	.4991	.4960	1.959	.4893	.5064

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	3231.2	7949.9	51329.	2145.3
Stddev	6.7	25.1	115.	41.9
%RSD	.20862	.31603	.22500	1.9510
#1	3234.9	7968.1	51403.	2192.5
#2	3235.3	7960.3	51196.	2130.7
#3	3223.4	7921.2	51389.	2112.7

Zoom In
Zoom Out

Sample Name: MP28748-MB5 Acquired: 4/3/2015 11:36:32 Type: Unk
Method: 60102007_042011(v210) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	-.0010	-.0038	-.0018	.0001	-.0001	.0078	-.0001	.0000	.0004	.0002
Stddev	.0007	.0497	.0003	.0009	.0001	.0083	.0000	.000	.0002	.0004
%RSD	69.58	1311.	16.97	1617.	113.8	107.4	41.50	90.19	50.94	244.3
#1	-.0017	-.0570	-.0019	.0011	-.0002	.0099	-.0001	-.0001	.0006	.0006
#2	-.0005	.0415	-.0015	-.0002	-.0002	.0148	-.0001	.0000	.0005	-.0003
#3	-.0007	.0041	-.0021	-.0007	.0000	-.0014	.0000	.0000	.0002	.0003

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	.0079	.1642	.0140	-.0001	.0000	.2586	.0001	.0001	-.0025	.0014
Stddev	.0062	.0248	.0276	.0001	.0001	.0163	.0001	.0014	.0007	.0006
%RSD	78.48	15.11	196.9	131.9	279.8	6.308	117.1	2573.	30.21	40.54
#1	.0128	.1922	.0378	.0000	.0001	.2475	.0000	-.0014	-.0017	.0021
#2	.0009	.1449	.0204	-.0002	-.0001	.2773	.0002	.0001	-.0024	.0012
#3	.0099	.1555	-.0162	-.0001	.0000	.2509	.0003	.0015	-.0032	.0009

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	.0219	-.0002	.0000	.0001	.0005	-.0002	.0004
Stddev	.0008	.0002	.0001	.0002	.0003	.0003	.0001
%RSD	3.806	102.2	411.3	337.8	62.66	177.3	16.46
#1	.0224	-.0003	.0001	.0001	.0009	.0001	.0005
#2	.0224	-.0002	-.0001	-.0002	.0002	-.0001	.0004
#3	.0210	.0000	.0001	.0002	.0005	-.0005	.0004

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	3752.8	8357.6	55867.	2162.5
Stddev	5.0	10.3	258.	11.6
%RSD	.13306	.12282	.46131	.53791
#1	3748.0	8354.1	55648.	2174.9
#2	3758.0	8369.2	56151.	2160.9
#3	3752.5	8349.6	55801.	2151.8

Zoom In
Zoom Out

Sample Name: MP28748-B5 Acquired: 4/3/2015 11:41:00 Type: Unk
Method: 60102007_042011(v210) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	.0473	27.38	1.976	2.050	.0518	25.35	.0493	.5002	.2065	.2581
Stddev	.0003	.08	.003	.004	.0004	.13	.0003	.0004	.0005	.0016
%RSD	.7069	.3058	.1541	.2180	.7324	.5187	.6491	.0838	.2435	.6046
#1	.0470	27.33	1.973	2.051	.0514	25.21	.0490	.4997	.2069	.2567
#2	.0473	27.48	1.975	2.046	.0519	25.48	.0496	.5005	.2066	.2598
#3	.0477	27.34	1.979	2.054	.0521	25.36	.0494	.5003	.2059	.2577

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	26.30	25.69	25.13	.5137	.4889	26.09	.5093	.4811	.4912	1.972
Stddev	.11	.08	.07	.0009	.0004	.09	.0014	.0007	.0006	.002
%RSD	.4111	.3204	.2882	.1800	.0764	.3371	.2677	.1495	.1315	.0935
#1	26.22	25.60	25.05	.5127	.4885	25.99	.5095	.4803	.4905	1.971
#2	26.42	25.75	25.18	.5140	.4890	26.15	.5079	.4815	.4917	1.974
#3	26.26	25.73	25.17	.5145	.4892	26.13	.5106	.4815	.4914	1.972

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	.0318	.5036	.5017	.4975	1.965	.4848	.4988
Stddev	.0006	.0004	.0014	.0003	.005	.0008	.0007
%RSD	2.035	.0891	.2767	.0528	.2673	.1747	.1428
#1	.0316	.5032	.5002	.4974	1.968	.4845	.4986
#2	.0314	.5041	.5030	.4973	1.959	.4858	.4981
#3	.0326	.5036	.5018	.4978	1.969	.4842	.4995

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	3382.3	8066.9	52547.	2151.4
Stddev	2.8	14.8	320.	3.3
%RSD	.08152	.18296	.60888	.15461
#1	3379.1	8052.3	52862.	2151.1
#2	3384.1	8081.8	52223.	2154.9
#3	3383.6	8066.6	52557.	2148.2

Zoom In Zoom Out

Sample Name: FA23172-5 Acquired: 4/3/2015 11:45:23 Type: Unk
Method: 60102007_042011(v210) Mode: CONC Corr. Factor: 4.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)
Avg	.0046	.3585	-.0020	.3590	-.0002	950.1	-.0005	.0009	.0081
Stddev	.0028	.0670	.0083	.0035	.0004	6.5	.0002	.0008	.0014
%RSD	60.46	18.70	414.5	.9845	183.0	.6869	31.15	86.30	17.24
#1	.0075	.4097	.0050	.3631	-.0003	957.5	-.0004	.0000	.0068
#2	.0019	.3832	-.0111	.3575	-.0006	945.1	-.0004	.0014	.0078
#3	.0044	.2827	.0001	.3565	.0002	947.8	-.0007	.0012	.0096

Elem	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
IS Ref	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)
Avg	-.0052	2.041	139.8	1151.	.6405	.0021	F4336.	.0028	-.0003
Stddev	.0007	.020	2.1	8.	.0020	.0010	113.	.0008	.0038
%RSD	13.78	.9557	1.523	.6790	.3072	46.63	2.596	28.71	1228.
#1	-.0044	2.059	142.1	1160.	.6398	.0027	4460.	.0032	-.0042
#2	-.0057	2.043	138.0	1146.	.6428	.0010	4307.	.0019	.0034
#3	-.0054	2.020	139.1	1146.	.6390	.0027	4241.	.0033	-.0001

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	.0053	.0053	4.693	-.0003	9.050	.0131	-.0064	.0144	.0107
Stddev	.0057	.0055	.012	.0015	.052	.0015	.0002	.0020	.0004
%RSD	106.0	103.6	.2493	486.6	.5706	11.65	2.953	13.55	4.143
#1	.0035	.0108	4.683	-.0013	9.107	.0128	-.0063	.0137	.0112
#2	.0008	-.0002	4.690	-.0010	9.006	.0118	-.0066	.0130	.0106
#3	.0117	.0053	4.706	.0014	9.039	.0148	-.0063	.0167	.0103

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	2720.0	6947.1	43753.	2051.4
Stddev	4.1	7.6	176.	22.8
%RSD	.15059	.10966	.40225	1.1092
#1	2720.9	6938.7	43945.	2025.1
#2	2723.6	6953.5	43716.	2064.8
#3	2715.6	6949.1	43599.	2064.2

Zoom In Zoom Out

Sample Name: CCV Acquired: 4/3/2015 11:49:58 Type: QC
Method: 60102007_042011(v210) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2450	40.02	1.957	2.004	2.006	39.98	1.972	1.975	1.989	1.996
Stddev	.0011	.10	.007	.001	.004	.11	.003	.001	.005	.002
%RSD	.4693	.2516	.3697	.0454	.1755	.2627	.1635	.0611	.2714	.0858
#1	.2457	40.03	1.962	2.003	2.005	39.89	1.972	1.974	1.993	1.998
#2	.2457	39.92	1.962	2.005	2.003	39.94	1.975	1.976	1.991	1.995
#3	.2437	40.12	1.949	2.005	2.010	40.09	1.968	1.975	1.983	1.997
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value										
Range										

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	40.13	41.06	39.72	2.035	1.972	39.24	1.983	1.957	1.960	1.977
Stddev	.12	.09	.19	.017	.003	.14	.004	.006	.004	.005
%RSD	.2941	.2122	.4755	.8147	.1520	.3557	.2281	.3150	.1977	.2323
#1	40.06	41.09	39.75	2.039	1.968	39.25	1.978	1.954	1.960	1.978
#2	40.07	40.96	39.51	2.049	1.974	39.09	1.985	1.953	1.964	1.980
#3	40.27	41.13	39.88	2.016	1.973	39.37	1.987	1.964	1.956	1.972
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value										
Range										

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.018	1.957	2.005	2.008	1.980	1.973	1.971
Stddev	.003	.002	.004	.003	.005	.004	.003
%RSD	.1562	.0741	.2153	.1391	.2386	.2240	.1737
#1	2.017	1.957	2.008	2.012	1.974	1.977	1.967
#2	2.021	1.959	2.000	2.007	1.981	1.968	1.973
#3	2.015	1.956	2.008	2.007	1.983	1.974	1.973
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Zoom In Zoom Out

Sample Name: CCV Acquired: 4/3/2015 11:49:58 Type: QC
Method: 60102007_042011(v210) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3243.3	7971.2	52172.	2136.8
Stddev	8.5	30.0	275.	26.4
%RSD	.26346	.37584	.52764	1.2367
#1	3245.2	7973.8	51943.	2125.9
#2	3234.0	7940.1	52094.	2166.9
#3	3250.8	7999.8	52477.	2117.6

Zoom In Zoom Out

Sample Name: CCB Acquired: 4/3/2015 11:54:28 Type: QC
Method: 60102007_042011(v210) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0003	-.0046	-.0006	.0007	.0001	.0032	.0001	.0001	.0004
Stddev	.0011	.0286	.0011	.0004	.0000	.0059	.0000	.0002	.0003
%RSD	339.3	627.2	165.3	58.68	43.21	185.9	33.91	158.6	71.85
#1	-.0006	.0236	-.0007	.0005	.0000	.0011	.0001	.0001	.0003
#2	.0009	-.0337	-.0017	.0012	.0001	.0098	.0001	-.0001	.0007
#3	-.0013	-.0036	.0004	.0004	.0001	-.0014	.0001	.0002	.0002
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0001	.0177	.1634	-.0129	.0000	F.0015	.3866	-.0001	.0000
Stddev	.0002	.0026	.0564	.0109	.000	.0003	.0427	.0003	.000
%RSD	191.6	14.87	34.50	84.32	2492.	19.39	11.04	233.8	114400.
#1	.0002	.0206	.2009	-.0225	.0000	.0017	.4249	-.0004	-.0003
#2	.0002	.0154	.0986	-.0150	-.0001	.0017	.3406	-.0001	-.0001
#3	-.0001	.0173	.1908	-.0011	.0000	.0012	.3944	.0002	.0004
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit						.0010			
Low Limit						-.0010			

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0010	.0010	.0008	.0001	-.0002	.0011	.0009	-.0001	.0001
Stddev	.0002	.0025	.0005	.0004	.0001	.0002	.0006	.0004	.0000
%RSD	23.97	255.9	64.02	290.9	32.59	15.21	65.17	358.5	16.13
#1	.0010	.0009	.0009	.0000	-.0002	.0010	.0016	.0004	.0001
#2	.0013	.0036	.0013	.0006	-.0003	.0013	.0006	-.0005	.0001
#3	.0008	-.0015	.0003	-.0002	-.0003	.0010	.0006	-.0002	.0001
Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Zoom In
Zoom Out

Sample Name: CCB Acquired: 4/3/2015 11:54:28 Type: QC
Method: 60102007_042011(v210) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3790.4	8397.5	55661.	2208.1
Stddev	5.2	16.4	112.	29.6
%RSD	.13645	.19552	.20202	1.3405
#1	3784.8	8378.9	55738.	2209.1
#2	3791.5	8409.9	55713.	2178.1
#3	3795.0	8403.8	55532.	2237.2

Zoom In
Zoom Out

Sample Name: FA23189-27 Acquired: 4/3/2015 11:58:57 Type: Unk
Method: 60102007_042011(v210) Mode: CONC Corr. Factor: 10.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	-.0082	222.8	.0539	1.939	.0082	3448.	.0024	.0730	.2180	.1822
Stddev	.0127	1.5	.0067	.011	.0028	24.	.0006	.0005	.0045	.0029
%RSD	154.9	.6841	12.41	.5410	33.74	.6836	26.66	.6347	2.080	1.571
#1	-.0062	221.4	.0464	1.929	.0109	3430.	.0029	.0725	.2180	.1797
#2	-.0217	222.5	.0592	1.938	.0054	3440.	.0017	.0734	.2134	.1817
#3	.0034	224.4	.0562	1.950	.0083	3474.	.0025	.0731	.2225	.1853

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	189.2	80.02	138.0	3.204	.0182	87.99	.1848	.1202	.0013	.0352
Stddev	1.5	.82	.9	.010	.0033	.46	.0011	.0324	.0021	.0195
%RSD	.7732	1.025	.6254	.2994	18.21	.5253	.5799	26.97	159.6	55.40
#1	187.8	80.67	137.4	3.214	.0168	87.51	.1859	.1533	.0006	.0567
#2	189.2	79.10	137.6	3.195	.0158	88.02	.1838	.1188	.0037	.0188
#3	190.7	80.30	139.0	3.203	.0220	88.43	.1845	.0885	-.0003	.0299

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	13.84	.0213	11.90	3.663	-.0076	.3741	.5550
Stddev	.03	.0029	.08	.010	.0223	.0042	.0013
%RSD	.1941	13.66	.6509	.2807	291.1	1.134	.2280
#1	13.82	.0211	11.83	3.673	.0170	.3693	.5536
#2	13.84	.0243	11.89	3.652	-.0262	.3773	.5553
#3	13.87	.0185	11.98	3.662	-.0138	.3757	.5561

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	3204.2	7925.3	52003.	2166.1
Stddev	10.5	34.5	131.	10.3
%RSD	.32633	.43580	.25128	.47404
#1	3211.7	7950.3	52154.	2171.4
#2	3208.6	7939.7	51933.	2172.5
#3	3192.3	7885.9	51922.	2154.2

Zoom In
Zoom Out

Sample Name: FA23201-7 Acquired: 4/3/2015 12:03:21 Type: Unk
Method: 60102007_042011(v210) Mode: CONC Corr. Factor: 10.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	-.0091	117.8	.0046	.3276	.0083	219.1	.0044	.0247	.5232	.0804
Stddev	.0048	.7	.0081	.0070	.0026	1.2	.0004	.0010	.0035	.0029
%RSD	52.61	.5878	178.0	2.128	31.22	.5566	8.765	4.242	.6765	3.581
#1	-.0123	117.1	.0119	.3204	.0055	217.7	.0049	.0237	.5270	.0823
#2	-.0036	118.4	-.0041	.3343	.0086	219.9	.0042	.0258	.5200	.0771
#3	-.0114	118.1	.0059	.3281	.0106	219.6	.0042	.0247	.5226	.0819

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	29.17	10.60	5.595	15.72	.0018	444.4	.0734	.0919	-.0107	.0294
Stddev	.04	.58	.050	.13	.0009	1.7	.0029	.0057	.0093	.0135
%RSD	.1452	5.466	.8877	.8161	48.28	.3874	3.981	6.220	87.06	46.00
#1	29.22	10.19	5.582	15.80	.0028	442.5	.0764	.0985	-.0060	.0291
#2	29.15	11.27	5.554	15.57	.0011	444.8	.0733	.0889	-.0214	.0160
#3	29.13	10.35	5.650	15.78	.0015	445.9	.0706	.0883	-.0047	.0431

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	51.08	-.0007	4.193	.1856	-.0141	.1274	.1417
Stddev	.02	.0024	.021	.0005	.0106	.0021	.0006
%RSD	.0316	370.5	.4955	.2935	74.79	1.611	.4230
#1	51.09	.0019	4.172	.1861	-.0230	.1251	.1424
#2	51.08	-.0009	4.213	.1851	-.0170	.1281	.1412
#3	51.06	-.0029	4.194	.1857	-.0024	.1290	.1414

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	3405.9	8613.8	56146.	2254.6
Stddev	9.2	22.5	194.	9.1
%RSD	.26889	.26158	.34566	.40531
#1	3413.0	8630.6	55928.	2265.0
#2	3395.6	8588.2	56299.	2248.2
#3	3409.1	8622.5	56210.	2250.4

Zoom In
Zoom Out

Sample Name: FA23224-4 Acquired: 4/3/2015 12:07:55 Type: Unk
Method: 60102007_042011(v210) Mode: CONC Corr. Factor: 25.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	-.0328	91.19	.0362	2.474	.0115	34.36	.0815	.0222	.2744	.0495
Stddev	.0037	.33	.0161	.011	.0038	.13	.0010	.0028	.0045	.0078
%RSD	11.13	.3599	44.36	.4242	33.26	.3818	1.265	12.67	1.644	15.75
#1	-.0370	90.83	.0370	2.485	.0090	34.39	.0810	.0251	.2694	.0468
#2	-.0309	91.46	.0198	2.473	.0159	34.46	.0827	.0195	.2756	.0433
#3	-.0305	91.27	.0519	2.464	.0096	34.21	.0809	.0219	.2781	.0582

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	15.53	4.762	3.104	.0379	.0143	36.34	.0296	.1442	-.0430	.0813
Stddev	.17	1.572	.309	.0007	.0057	.03	.0086	.0109	.0365	.0242
%RSD	1.064	33.02	9.937	1.877	39.43	.0729	29.10	7.590	84.98	29.78
#1	15.43	5.254	2.784	.0385	.0139	36.34	.0237	.1370	-.0471	.0777
#2	15.72	6.031	3.129	.0382	.0202	36.37	.0256	.1568	-.0046	.0590
#3	15.44	3.003	3.400	.0371	.0089	36.32	.0395	.1389	-.0773	.1071

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	37.71	-.0059	5.196	.2165	.0219	.1832	.1240
Stddev	.02	.0089	.021	.0053	.0251	.0060	.0007
%RSD	.0616	149.5	.4123	2.444	114.8	3.283	.5875
#1	37.68	-.0113	5.195	.2207	.0468	.1866	.1246
#2	37.71	.0043	5.217	.2183	-.0034	.1763	.1243
#3	37.73	-.0107	5.174	.2106	.0223	.1868	.1232

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	3685.5	9254.9	60935.	2393.0
Stddev	6.1	12.1	194.	23.6
%RSD	.16580	.13027	.31810	.98826
#1	3678.7	9242.1	60927.	2366.7
#2	3687.1	9266.0	61133.	2399.8
#3	3690.6	9256.6	60746.	2412.5

Zoom In Zoom Out

Sample Name: FA23224-5 Acquired: 4/3/2015 12:12:23 Type: Unk
Method: 60102007_042011(v210) Mode: CONC Corr. Factor: 20.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	-.0258	41.56	.0228	1.467	.0048	18.82	.0517	.0128	.1307	.0232
Stddev	.0075	.30	.0307	.012	.0031	.08	.0008	.0030	.0093	.0045
%RSD	28.90	.7205	134.7	.8052	64.54	.4254	1.584	23.61	7.144	19.38
#1	-.0342	41.78	.0463	1.476	.0058	18.76	.0513	.0143	.1410	.0284
#2	-.0198	41.22	-.0120	1.453	.0074	18.80	.0527	.0148	.1281	.0204
#3	-.0236	41.67	.0341	1.471	.0014	18.91	.0512	.0093	.1229	.0208

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	8.714	2.140	1.266	.0201	.0010	32.64	.0129	.0821	-.0289	.0824
Stddev	.122	1.025	.808	.0004	.0000	.51	.0015	.0033	.0509	.0416
%RSD	1.394	47.91	63.82	1.987	1.156	1.566	11.62	4.069	176.4	50.44
#1	8.788	1.273	2.196	.0206	.0010	32.28	.0145	.0783	-.0416	.0825
#2	8.574	3.272	.7414	.0198	.0010	32.41	.0116	.0837	-.0722	.1240
#3	8.780	1.877	.8601	.0200	.0011	33.22	.0125	.0844	.0272	.0408

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	22.93	-.0081	3.009	.1318	.0038	.0950	.0823
Stddev	.00	.0032	.017	.0039	.0351	.0039	.0008
%RSD	.0132	39.20	.5567	2.981	922.4	4.129	.9780
#1	22.93	-.0051	3.021	.1282	.0240	.0905	.0815
#2	22.92	-.0079	2.990	.1312	-.0367	.0975	.0831
#3	22.93	-.0114	3.015	.1360	.0242	.0969	.0824

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	3713.5	9027.2	59535.	2341.9
Stddev	9.5	25.4	408.	12.5
%RSD	.25487	.28098	.68467	.53431
#1	3724.0	9056.3	59330.	2329.5
#2	3705.5	9015.7	60004.	2354.5
#3	3711.1	9009.7	59270.	2341.7

Zoom In Zoom Out

Sample Name: FA23224-7 Acquired: 4/3/2015 12:16:52 Type: Unk
Method: 60102007_042011(v210) Mode: CONC Corr. Factor: 25.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	-.0310	40.07	-.0084	1.515	.0034	16.71	.0610	.0123	.1204	.0227
Stddev	.0139	.88	.0048	.012	.0032	.11	.0013	.0004	.0060	.0091
%RSD	44.84	2.206	57.22	.7681	93.69	.6555	2.061	3.548	5.002	40.19
#1	-.0383	40.50	-.0029	1.512	.0062	16.59	.0601	.0122	.1207	.0144
#2	-.0398	40.66	-.0116	1.528	.0000	16.78	.0603	.0119	.1262	.0325
#3	-.0150	39.05	-.0108	1.505	.0040	16.77	.0624	.0128	.1142	.0211

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	9.063	3.481	1.094	.0168	.0003	33.80	.0181	.0747	-.0327	.1255
Stddev	.106	1.876	.241	.0019	.0062	.19	.0051	.0135	.0169	.0468
%RSD	1.165	53.90	22.07	11.03	1826.	.5678	28.02	18.09	51.67	37.25
#1	8.992	1.334	1.143	.0174	.0050	33.91	.0154	.0663	-.0522	.0933
#2	9.013	4.805	.8316	.0147	-.0067	33.90	.0149	.0903	-.0241	.1041
#3	9.185	4.305	1.307	.0183	.0026	33.57	.0240	.0676	-.0218	.1792

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	21.08	-.0040	3.227	.1190	-.0061	.0760	.0620
Stddev	.03	.0089	.016	.0028	.0227	.0073	.0006
%RSD	.1518	223.0	.5054	2.381	371.4	9.575	.9961
#1	21.10	-.0107	3.225	.1223	.0188	.0843	.0613
#2	21.04	.0061	3.245	.1179	-.0257	.0724	.0624
#3	21.09	-.0074	3.212	.1170	-.0114	.0712	.0623

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	3710.4	8917.0	58615.	2299.8
Stddev	11.8	32.5	288.	11.7
%RSD	.31870	.36422	.49180	.50818
#1	3698.1	8899.5	58533.	2287.7
#2	3721.7	8954.5	58935.	2311.1
#3	3711.3	8897.0	58376.	2300.7

Zoom In Zoom Out

Sample Name: FA22818-1 Acquired: 4/3/2015 12:21:21 Type: Unk
Method: 60102007_042011(v210) Mode: CONC Corr. Factor: 10.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)
Avg	-.0127	839.9	.1262	2.866	.0087	2257.	.1005	.2804	2.439
Stddev	.0063	1.7	.0008	.015	.0010	6.	.0009	.0005	.002
%RSD	49.70	.2034	.6658	.5253	11.89	.2519	.9197	.1906	.0667
#1	-.0057	839.0	.1270	2.872	.0075	2253.	.1000	.2801	2.438
#2	-.0180	838.7	.1264	2.849	.0091	2254.	.1015	.2801	2.441
#3	-.0146	841.8	.1253	2.877	.0094	2264.	.0998	.2810	2.438

Elem	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
IS Ref	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)
Avg	1.271	903.2	21.92	37.70	37.75	.1047	9.553	.4373	1.137
Stddev	.003	2.9	.40	.51	.36	.0018	.402	.0045	.013
%RSD	.2580	.3228	1.809	1.360	.9409	1.673	4.211	1.035	1.110
#1	1.274	902.1	22.37	37.25	38.16	.1063	9.472	.4403	1.148
#2	1.269	901.0	21.60	37.59	37.61	.1049	9.197	.4321	1.139
#3	1.268	906.5	21.79	38.25	37.49	.1028	9.989	.4394	1.123

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	.0423	.0450	9.182	.0206	F53.21	29.50	-.0325	.6569	12.32
Stddev	.0103	.0215	.004	.0054	.07	.15	.0195	.0059	.02
%RSD	24.43	47.87	.0378	26.48	.1299	.5250	60.08	.8934	.1435
#1	.0448	.0698	9.180	.0186	53.24	29.51	-.0115	.6581	12.30
#2	.0511	.0336	9.180	.0267	53.13	29.64	-.0501	.6505	12.33
#3	.0309	.0316	9.186	.0164	53.26	29.33	-.0359	.6621	12.33

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	3282.1	8924.8	57989.	2398.0
Stddev	1.1	21.0	152.	27.1
%RSD	.03306	.23528	.26177	1.1320
#1	3280.9	8938.7	57823.	2419.0
#2	3282.9	8900.7	58024.	2407.8
#3	3282.6	8935.2	58121.	2367.4

Zoom In Zoom Out

Sample Name: MP28745-D1 Acquired: 4/3/2015 12:26:04 Type: Unk
Method: 60102007_042011(v210) Mode: CONC Corr. Factor: 10.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)
Avg	.0005	880.8	.1385	3.040	.0102	2049.	.1058	.3010	2.653
Stddev	.0086	1.0	.0064	.012	.0004	2.	.0006	.0005	.009
%RSD	1738.	.1190	4.602	.4024	4.234	.1143	.5331	.1749	.3387
#1	-.0023	880.2	.1320	3.030	.0100	2047.	.1058	.3005	2.659
#2	.0101	882.1	.1388	3.053	.0099	2052.	.1053	.3012	2.642
#3	-.0063	880.3	.1447	3.035	.0107	2048.	.1064	.3015	2.656

Elem	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
IS Ref	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)
Avg	1.495	1068.	22.99	37.70	F40.01	.2934	9.835	.5794	.8865
Stddev	.004	2.	.45	.25	.34	.0047	.185	.0008	.0062
%RSD	.2519	.1790	1.973	.6648	.8503	1.608	1.878	.1425	.7021
#1	1.496	1066.	22.61	37.87	40.37	.2974	9.623	.5800	.8933
#2	1.490	1070.	22.87	37.41	39.69	.2882	9.923	.5785	.8850
#3	1.497	1068.	23.49	37.81	39.98	.2946	9.959	.5798	.8811

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	.0349	.0562	7.068	.0242	F55.27	30.52	-.0302	.6587	12.14
Stddev	.0213	.0386	.022	.0013	.18	.43	.0131	.0063	.01
%RSD	61.14	68.66	.3065	5.355	.3256	1.424	43.30	.9578	.0701
#1	.0126	.0187	7.090	.0242	55.15	31.00	-.0164	.6568	12.15
#2	.0551	.0541	7.047	.0229	55.48	30.16	-.0316	.6536	12.14
#3	.0370	.0959	7.067	.0255	55.18	30.39	-.0424	.6657	12.13

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	3308.9	9040.7	58235.	2420.4
Stddev	6.8	6.4	280.	16.0
%RSD	.20466	.07045	.48035	.65936
#1	3312.6	9045.7	58017.	2408.7
#2	3301.1	9033.5	58551.	2414.0
#3	3312.9	9042.8	58137.	2438.6

Zoom In Zoom Out

Sample Name: MP28745-D2 Acquired: 4/3/2015 12:30:46 Type: Unk
Method: 60102007_042011(v210) Mode: CONC Corr. Factor: 10.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)
Avg	-.0094	879.2	.1527	3.018	.0095	2238.	.1054	.2968	2.573
Stddev	.0103	6.5	.0109	.014	.0028	19.	.0011	.0021	.010
%RSD	110.2	.7437	7.126	.4677	29.66	.8654	1.069	.7196	.3831
#1	-.0023	877.5	.1507	3.006	.0063	2229.	.1058	.2991	2.580
#2	-.0212	873.6	.1645	3.016	.0110	2225.	.1062	.2950	2.562
#3	-.0047	886.4	.1430	3.034	.0113	2261.	.1041	.2962	2.577

Elem	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
IS Ref	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)
Avg	1.398	992.3	22.49	38.11	39.55	.1357	9.469	.5167	1.030
Stddev	.004	8.6	.20	.40	.30	.0022	.188	.0042	.011
%RSD	.2767	.8691	.8848	1.048	.7659	1.618	1.987	.8207	1.042
#1	1.395	989.5	22.28	37.73	39.29	.1367	9.268	.5172	1.042
#2	1.396	985.3	22.68	38.07	39.89	.1332	9.641	.5122	1.022
#3	1.402	1002.	22.50	38.53	39.48	.1373	9.498	.5206	1.026

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	.0502	.0306	7.329	.0208	F55.59	30.50	-.0278	.6720	12.40
Stddev	.0172	.0206	.014	.0022	.52	.44	.0028	.0025	.02
%RSD	34.26	67.21	.1911	10.48	.9352	1.449	10.02	.3691	.1769
#1	.0309	.0198	7.345	.0208	55.35	30.08	-.0310	.6747	12.42
#2	.0560	.0176	7.318	.0186	55.24	30.45	-.0270	.6712	12.38
#3	.0638	.0543	7.325	.0230	56.19	30.96	-.0256	.6700	12.42

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	3265.6	8943.3	58174.	2399.3
Stddev	10.6	22.6	427.	28.4
%RSD	.32598	.25299	.73475	1.1839
#1	3273.3	8950.7	58189.	2398.1
#2	3270.0	8961.4	58594.	2428.3
#3	3253.5	8917.9	57740.	2371.5

Zoom In Zoom Out

Sample Name: MP28745-S1 Acquired: 4/3/2015 12:35:29 Type: Unk
Method: 60102007_042011(v210) Mode: CONC Corr. Factor: 10.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)
Avg	.0270	805.4	1.542	4.208	.0448	1890.	.1308	.6279	2.422
Stddev	.0041	.6	.013	.036	.0014	4.	.0003	.0026	.004
%RSD	15.32	.0798	.8306	.8635	3.203	.2268	.2202	.4151	.1443
#1	.0255	806.1	1.553	4.187	.0432	1895.	.1311	.6261	2.418
#2	.0237	805.1	1.528	4.187	.0461	1888.	.1309	.6309	2.424
#3	.0316	804.9	1.546	4.250	.0450	1887.	.1305	.6268	2.424

Elem	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
IS Ref	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)
Avg	1.403	978.4	38.66	51.27	36.41	.4228	28.01	.7777	1.396
Stddev	.004	.9	.78	.39	.18	.0015	.16	.0046	.006
%RSD	.2794	.0963	2.011	.7567	.4925	.3458	.5851	.5868	.4250
#1	1.405	979.2	38.22	51.46	36.28	.4212	28.20	.7824	1.397
#2	1.406	977.4	39.56	50.82	36.62	.4232	27.92	.7773	1.390
#3	1.398	978.6	38.21	51.52	36.34	.4241	27.90	.7733	1.402

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	.1661	1.451	5.286	.3714	F49.92	26.70	1.437	.9612	15.13
Stddev	.0169	.017	.007	.0024	.11	.03	.009	.0024	.02
%RSD	10.16	1.159	.1279	.6376	.2188	.1203	.6297	.2534	.1513
#1	.1772	1.447	5.293	.3722	50.04	26.70	1.429	.9637	15.11
#2	.1743	1.437	5.280	.3687	49.88	26.67	1.447	.9588	15.12
#3	.1466	1.469	5.284	.3732	49.83	26.74	1.435	.9611	15.15

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	3277.2	8810.7	57149.	2358.4
Stddev	11.5	23.3	233.	3.4
%RSD	.35217	.26484	.40830	.14431
#1	3287.4	8826.6	57137.	2362.2
#2	3279.6	8821.6	56921.	2357.3
#3	3264.7	8783.9	57388.	2355.7

Zoom In Zoom Out

Sample Name: MP28745-S2 Acquired: 4/3/2015 12:40:02 Type: Unk
Method: 60102007_042011(v210) Mode: CONC Corr. Factor: 10.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)
Avg	.0330	1037.	1.683	5.135	.0499	2552.	.1583	.7231	3.024
Stddev	.0019	5.	.017	.007	.0008	13.	.0006	.0015	.009
%RSD	5.670	.4812	1.013	.1304	1.530	.4993	.3931	.2042	.2883
#1	.0339	1031.	1.702	5.138	.0507	2538.	.1576	.7248	3.019
#2	.0342	1040.	1.672	5.139	.0492	2560.	.1585	.7227	3.034
#3	.0309	1039.	1.674	5.127	.0499	2560.	.1588	.7219	3.020

Elem	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
IS Ref	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)
Avg	1.773	1087.	46.98	62.74	F45.68	.4632	31.99	.9125	1.407
Stddev	.004	5.	.56	.60	.94	.0021	.10	.0020	.014
%RSD	.2243	.4776	1.195	.9633	2.063	.4462	.3271	.2164	.9584
#1	1.778	1082.	47.32	62.36	45.50	.4608	32.01	.9126	1.421
#2	1.772	1092.	47.28	62.42	46.70	.4645	32.08	.9145	1.407
#3	1.770	1088.	46.33	63.44	44.84	.4642	31.88	.9105	1.394

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	.1972	1.549	6.275	.3854	F64.78	34.39	1.570	1.170	14.03
Stddev	.0149	.002	.006	.0051	.38	.09	.011	.002	.00
%RSD	7.579	.1417	.0959	1.328	.5820	.2751	.7231	.1897	.0281
#1	.1809	1.549	6.276	.3853	64.36	34.28	1.583	1.168	14.03
#2	.2103	1.546	6.280	.3906	65.10	34.46	1.561	1.172	14.02
#3	.2004	1.550	6.268	.3803	64.86	34.41	1.567	1.169	14.03

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	3210.3	9028.4	58728.	2424.3
Stddev	4.6	10.8	407.	24.8
%RSD	.14271	.11993	.69291	1.0221
#1	3205.1	9018.9	59132.	2447.7
#2	3212.2	9026.1	58318.	2398.3
#3	3213.7	9040.2	58734.	2426.9

Zoom In Zoom Out

Sample Name: CCV Acquired: 4/3/2015 12:44:43 Type: QC
Method: 60102007_042011(v210) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2433	39.90	1.971	1.993	1.968	39.37	1.986	1.983	1.987	1.995
Stddev	.0007	.44	.006	.017	.017	.30	.006	.006	.006	.003
%RSD	.2964	1.115	.3165	.8510	.8688	.7686	.2927	.3111	.3282	.1601
#1	.2426	40.30	1.966	2.010	1.987	39.71	1.985	1.980	1.979	1.992
#2	.2432	39.42	1.969	1.976	1.955	39.12	1.981	1.978	1.991	1.995
#3	.2441	39.97	1.978	1.992	1.961	39.28	1.992	1.990	1.991	1.998
Check ?	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass
Value										
Range										

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	39.96	40.67	39.21	2.016	1.980	40.63	1.978	1.932	1.978	1.977
Stddev	.17	.36	.55	.006	.007	.21	.008	.010	.006	.006
%RSD	.4181	.8759	1.403	.2971	.3478	.5178	.3822	.5204	.3187	.3296
#1	40.14	41.08	39.83	2.019	1.975	40.84	1.975	1.927	1.972	1.976
#2	39.82	40.41	38.78	2.019	1.978	40.42	1.973	1.926	1.979	1.972
#3	39.93	40.52	39.03	2.009	1.988	40.62	1.987	1.944	1.984	1.984
Check ?	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass
Value										
Range										

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.035	1.958	1.980	1.993	1.961	1.954	1.963
Stddev	.007	.006	.012	.001	.011	.005	.007
%RSD	.3416	.3343	.6189	.0473	.5344	.2756	.3389
#1	2.036	1.956	1.993	1.993	1.951	1.948	1.960
#2	2.027	1.952	1.968	1.994	1.961	1.958	1.958
#3	2.041	1.965	1.979	1.993	1.972	1.956	1.971
Check ?	None	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass
Value							
Range							

Zoom In
Zoom Out

Sample Name: CCV Acquired: 4/3/2015 12:44:43 Type: QC
Method: 60102007_042011(v210) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3179.1	7761.4	51119.	2082.8
Stddev	10.2	21.3	167.	32.6
%RSD	.32143	.27492	.32636	1.5674
#1	3181.6	7761.4	51226.	2050.8
#2	3187.9	7782.8	50927.	2081.6
#3	3167.9	7740.1	51204.	2116.0

Zoom In
Zoom Out

Sample Name: CCB Acquired: 4/3/2015 12:49:12 Type: QC
Method: 60102007_042011(v210) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0007	.0117	-.0005	.0004	-.0001	-.0020	.0000	.0000	.0004
Stddev	.0005	.0070	.0001	.0008	.0002	.0040	.0000	.0002	.0001
%RSD	65.39	59.82	24.38	202.0	220.1	205.9	223.8	390.4	24.21
#1	-.0010	.0052	-.0004	-.0002	-.0003	.0011	.0000	.0001	.0003
#2	-.0010	.0191	-.0006	.0013	-.0001	-.0005	.0000	.0002	.0005
#3	-.0002	.0109	-.0006	.0001	.0001	-.0065	.0000	-.0002	.0003
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0004	.0119	.1086	-.0114	.0000	F.0015	.0414	.0002	.0002
Stddev	.0002	.0019	.0545	.0261	.0000	.0002	.0255	.0001	.0010
%RSD	51.52	16.03	50.16	228.7	163.7	15.92	61.62	60.89	652.4
#1	.0002	.0126	.0626	-.0164	.0000	.0018	.0378	.0001	.0013
#2	.0006	.0133	.1688	.0169	.0001	.0014	.0685	.0002	-.0001
#3	.0004	.0097	.0944	-.0347	.0000	.0014	.0179	.0004	-.0007
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit						.0010			
Low Limit						-.0010			

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0005	.0007	.0011	-.0001	-.0001	.0012	-.0015	.0001	.0001
Stddev	.0011	.0007	.0008	.0002	.0002	.0002	.0005	.0005	.0000
%RSD	222.8	100.7	78.54	382.8	308.2	14.16	31.85	335.7	88.85
#1	-.0016	.0001	.0016	.0002	-.0001	.0011	-.0012	.0002	.0001
#2	-.0003	.0006	.0015	-.0002	.0001	.0010	-.0020	.0006	.0000
#3	.0005	.0014	.0001	-.0002	-.0002	.0013	-.0012	-.0004	.0000
Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Zoom In
Zoom Out

Sample Name: CCB Acquired: 4/3/2015 12:49:12 Type: QC
Method: 60102007_042011(v210) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3722.5	8176.9	54165.	2138.4
Stddev	11.1	26.7	176.	13.9
%RSD	.29788	.32646	.32509	.64881
#1	3732.8	8199.2	54057.	2130.8
#2	3724.1	8184.2	54071.	2154.4
#3	3710.8	8147.3	54369.	2130.0

Zoom In
Zoom Out

Sample Name: MP28745-PS1 Acquired: 4/3/2015 12:53:40 Type: Unk
Method: 60102007_042011(v210) Mode: CONC Corr. Factor: 10.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)
Avg	.0412	803.4	.2249	2.990	.0577	2149.	.1439	.3145	2.385
Stddev	.0015	2.2	.0082	.009	.0022	3.	.0007	.0009	.004
%RSD	3.727	.2748	3.625	.3119	3.882	.1176	.4921	.2816	.1829
#1	.0413	802.3	.2196	2.988	.0579	2146.	.1432	.3136	2.385
#2	.0396	801.8	.2209	2.982	.0598	2149.	.1440	.3144	2.381
#3	.0427	805.9	.2343	3.001	.0553	2151.	.1446	.3154	2.389

Elem	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
IS Ref	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)
Avg	1.312	864.7	32.16	40.14	35.67	.1984	19.69	.5156	1.105
Stddev	.004	1.6	.58	.05	.27	.0024	.16	.0029	.005
%RSD	.3141	.1862	1.814	.1305	.7498	1.201	.7977	.5627	.4337
#1	1.308	864.4	32.59	40.18	35.84	.1969	19.87	.5124	1.105
#2	1.310	863.3	32.40	40.08	35.81	.1972	19.60	.5165	1.110
#3	1.316	866.5	31.50	40.15	35.36	.2012	19.60	.5180	1.100

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	.1221	.1492	8.887	.0658	F50.64	28.23	.0733	.6736	11.95
Stddev	.0066	.0180	.015	.0017	.09	.15	.0118	.0065	.02
%RSD	5.430	12.08	.1734	2.541	.1739	.5229	16.13	.9647	.1443
#1	.1164	.1416	8.869	.0677	50.57	28.20	.0851	.6778	11.94
#2	.1294	.1363	8.894	.0646	50.62	28.39	.0614	.6661	11.94
#3	.1206	.1698	8.898	.0651	50.74	28.10	.0734	.6769	11.97

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	3284.5	8868.0	57462.	2379.5
Stddev	16.8	51.5	179.	9.7
%RSD	.51157	.58020	.31089	.40955
#1	3296.2	8888.5	57653.	2369.5
#2	3292.2	8906.0	57434.	2380.0
#3	3265.3	8809.4	57299.	2388.9

Zoom In Zoom Out

Sample Name: MP28745-SD1 Acquired: 4/3/2015 12:58:22 Type: Unk
Method: 60102007_042011(v210) Mode: CONC Corr. Factor: 50.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	-.0217	1026.	.1692	3.522	.0038	2728.	.1263	.3554	3.001	1.543
Stddev	.0131	7.	.0758	.051	.0181	18.	.0020	.0040	.026	.021
%RSD	60.22	.7062	44.78	1.448	470.7	.6512	1.592	1.114	.8789	1.340
#1	-.0347	1022.	.1371	3.547	.0221	2718.	.1277	.3517	3.031	1.541
#2	-.0220	1022.	.1148	3.463	-.0140	2717.	.1240	.3550	2.990	1.565
#3	-.0085	1035.	.2558	3.556	.0035	2748.	.1272	.3596	2.982	1.524

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	1121.	29.49	48.15	47.05	.1314	11.26	.5484	1.157	-.0066	.0314
Stddev	8.	.44	3.93	.12	.0079	.60	.0193	.018	.0727	.0819
%RSD	.6856	1.495	8.167	.2449	6.038	5.321	3.521	1.598	1109.	260.7
#1	1118.	28.99	50.86	47.19	.1326	10.56	.5371	1.171	.0732	-.0374
#2	1116.	29.69	43.64	46.98	.1229	11.59	.5374	1.163	-.0237	.1220
#3	1130.	29.80	49.94	46.99	.1386	11.61	.5707	1.136	-.0692	.0097

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	22.56	.0188	64.23	37.28	-.0641	.7948	15.20
Stddev	.23	.0077	.50	.19	.0238	.0153	.02
%RSD	1.022	41.01	.7707	.5206	37.19	1.927	.1046
#1	22.33	.0219	64.00	37.33	-.0898	.8020	15.20
#2	22.57	.0245	63.90	37.45	-.0600	.7772	15.19
#3	22.79	.0100	64.80	37.07	-.0426	.8053	15.22

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	3508.3	8280.2	54203.	2183.5
Stddev	9.6	33.0	414.	27.2
%RSD	.27410	.39799	.76339	1.2464
#1	3518.6	8302.7	54400.	2198.5
#2	3506.9	8295.5	54482.	2200.0
#3	3499.5	8242.4	53728.	2152.1

Zoom In Zoom Out

Sample Name: MP28752-MB1 Acquired: 4/3/2015 13:02:49 Type: QC
Method: 60102007_042011(v210) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0010	.0087	-.0007	.0001	.0000	.0281	.0000	.0000	.0009	.0005
Stddev	.0006	.0250	.0006	.0006	.000	.0066	.000	.0002	.0001	.0003
%RSD	62.26	286.2	83.58	621.6	89.61	23.68	134.3	1029.	12.54	55.02
#1	-.0004	-.0104	-.0006	-.0005	-.0001	.0266	.0000	-.0001	.0010	.0002
#2	-.0017	.0370	-.0012	.0002	.0000	.0353	.0000	.0002	.0008	.0008
#3	-.0009	-.0005	-.0002	.0006	.0000	.0223	-.0001	-.0001	.0009	.0006
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0270	.0713	.0301	.0002	.0000	.0369	.0003	-.0003	-.0016	.0036
Stddev	.0028	.1071	.0391	.0001	.0001	.0063	.0001	.0006	.0006	.0024
%RSD	10.53	150.2	129.8	43.13	1239.	17.05	43.60	191.2	40.99	66.73
#1	.0298	.1947	.0099	.0002	.0001	.0438	.0004	-.0006	-.0008	.0011
#2	.0241	.0161	.0053	.0001	-.0001	.0315	.0002	.0004	-.0020	.0059
#3	.0271	.0031	.0751	.0002	.0000	.0354	.0004	-.0007	-.0019	.0038
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0145	.0218	-.0001	.0014	-.0017	-.0001	.0005
Stddev	.0003	.0002	.0001	.0001	.0005	.0004	.0001
%RSD	1.947	.8396	112.7	4.565	31.47	622.0	12.71
#1	.0148	.0216	-.0001	.0014	-.0011	-.0005	.0005
#2	.0143	.0218	.0000	.0013	-.0019	-.0001	.0006
#3	.0143	.0220	-.0002	.0013	-.0021	.0004	.0006
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Zoom In Zoom Out

Sample Name: MP28752-MB1 Acquired: 4/3/2015 13:02:49 Type: QC
Method: 60102007_042011(v210) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3758.3	8305.2	56079.	2182.5
Stddev	3.9	13.9	450.	29.4
%RSD	.10495	.16707	.80292	1.3483
#1	3762.4	8321.1	55571.	2185.1
#2	3754.5	8295.5	56235.	2210.5
#3	3757.9	8298.9	56430.	2151.8

Zoom In Zoom Out

Sample Name: MP28752-B1 Acquired: 4/3/2015 13:07:18 Type: QC
Method: 60102007_042011(v210) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0473	27.70	2.012	2.074	.0514	25.44	.0503	.5081	.2101	.2619
Stddev	.0001	.02	.007	.008	.0004	.05	.0003	.0012	.0000	.0007
%RSD	.2169	.0867	.3516	.3698	.8605	.1918	.5171	.2414	.0232	.2649
#1	.0472	27.70	2.007	2.068	.0511	25.43	.0502	.5073	.2100	.2612
#2	.0472	27.69	2.008	2.071	.0512	25.39	.0501	.5074	.2101	.2618
#3	.0474	27.73	2.020	2.082	.0519	25.49	.0506	.5095	.2101	.2626
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value										
Range										

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	26.73	26.02	25.22	.5152	.5002	26.34	.5148	.4846	.4977	1.998
Stddev	.05	.05	.08	.0006	.0014	.11	.0010	.0014	.0015	.004
%RSD	.2018	.2053	.3038	.1162	.2815	.4245	.1887	.2891	.3015	.2011
#1	26.68	25.96	25.28	.5145	.5001	26.24	.5147	.4832	.4960	2.001
#2	26.73	26.04	25.13	.5156	.4988	26.31	.5139	.4847	.4981	1.993
#3	26.78	26.07	25.23	.5155	.5017	26.46	.5159	.4860	.4990	2.000
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value										
Range										

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0189	.5316	.5032	.5026	1.980	.4875	.5027
Stddev	.0003	.0010	.0014	.0007	.005	.0005	.0010
%RSD	1.416	.1913	.2812	.1408	.2590	.0925	.2046
#1	.0188	.5309	.5020	.5032	1.985	.4870	.5021
#2	.0187	.5311	.5029	.5018	1.975	.4877	.5020
#3	.0192	.5327	.5048	.5028	1.981	.4879	.5039
Check ?	None	Chk Pass	None	None	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Zoom In Zoom Out

Sample Name: MP28752-B1 Acquired: 4/3/2015 13:07:18 Type: QC
Method: 60102007_042011(v210) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3334.8	7938.7	52728.	2111.3
Stddev	4.0	11.7	220.	2.9
%RSD	.11889	.14784	.41777	.13547
#1	3337.8	7949.7	52980.	2113.5
#2	3330.3	7926.3	52574.	2112.4
#3	3336.3	7940.1	52630.	2108.1

Zoom In Zoom Out

Sample Name: FA23258-5 Acquired: 4/3/2015 13:11:43 Type: Unk
Method: 60102007_042011(v210) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)
Avg	.0002	94.54	.0223	1.129	.0034	F3000.	.0005	.0293	.0859
Stddev	.0014	.33	.0015	.003	.0002	77.	.0001	.0002	.0001
%RSD	645.8	.3455	6.621	.2868	5.846	2.578	23.84	.5960	.1067
#1	.0018	94.92	.0216	1.132	.0036	3027.	.0004	.0294	.0860
#2	-.0004	94.41	.0212	1.125	.0033	2912.	.0006	.0291	.0859
#3	-.0007	94.30	.0240	1.129	.0032	3060.	.0004	.0293	.0859

Elem	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
IS Ref	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)
Avg	.0568	77.43	29.41	114.3	1.747	.0132	25.85	.0652	.0682
Stddev	.0002	.32	.32	.2	.002	.0002	.04	.0003	.0006
%RSD	.2950	.4076	1.098	.1999	.0903	1.383	.1615	.4376	.8261
#1	.0567	77.72	29.32	114.4	1.745	.0134	25.84	.0655	.0688
#2	.0570	77.09	29.13	114.0	1.748	.0132	25.81	.0652	.0676
#3	.0566	77.49	29.76	114.5	1.747	.0131	25.89	.0650	.0682

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	.0225	.0036	2.555	.0194	F38.46	2.024	-.0001	.1659	.2127
Stddev	.0016	.0018	.004	.0004	1.24	.002	.0012	.0004	.0003
%RSD	7.104	50.16	.1741	2.293	3.229	.0725	1187.	.2248	.1290
#1	.0232	.0018	2.550	.0196	39.36	2.023	-.0012	.1656	.2127
#2	.0207	.0037	2.555	.0198	37.04	2.026	-.0003	.1659	.2129
#3	.0236	.0054	2.559	.0189	38.97	2.024	.0012	.1663	.2124

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	2689.5	7685.3	46777.	2014.4
Stddev	53.7	164.5	538.	24.1
%RSD	1.9949	2.1401	1.1502	1.1963
#1	2627.7	7495.6	46224.	2029.3
#2	2716.5	7788.0	47299.	2027.3
#3	2724.3	7772.2	46810.	1986.6

Zoom In Zoom Out

Sample Name: MP28752-D1 Acquired: 4/3/2015 13:16:23 Type: Unk
Method: 60102007_042011(v210) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)
Avg	-.0003	88.60	.0206	1.063	.0031	F2796.	.0005	.0275	.0819
Stddev	.0004	.15	.0010	.003	.0001	24.	.0001	.0002	.0005
%RSD	144.2	.1735	4.834	.2881	2.486	.8730	16.55	.7593	.6493
#1	.0000	88.46	.0208	1.062	.0031	2778.	.0005	.0276	.0813
#2	-.0007	88.76	.0195	1.066	.0031	2823.	.0004	.0272	.0824
#3	-.0001	88.59	.0215	1.060	.0030	2786.	.0004	.0275	.0820

Elem	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
IS Ref	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)
Avg	.0526	71.55	28.76	104.6	1.646	.0128	23.99	.0615	.0652
Stddev	.0004	.16	.16	.0	.005	.0003	.11	.0003	.0015
%RSD	.7312	.2270	.5608	.0376	.3117	2.563	.4637	.4717	2.298
#1	.0524	71.39	28.66	104.6	1.641	.0124	24.04	.0618	.0635
#2	.0524	71.71	28.67	104.6	1.650	.0127	23.86	.0613	.0657
#3	.0530	71.56	28.95	104.6	1.649	.0131	24.06	.0613	.0664

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	.0211	.0039	2.697	.0201	F36.25	1.985	-.0003	.1575	.2048
Stddev	.0014	.0007	.004	.0001	1.47	.003	.0032	.0004	.0028
%RSD	6.535	18.45	.1616	.6719	4.051	.1370	1115.	.2562	1.345
#1	.0217	.0034	2.694	.0201	36.57	1.983	.0004	.1570	.2023
#2	.0195	.0037	2.702	.0199	37.53	1.984	.0025	.1577	.2045
#3	.0220	.0047	2.696	.0201	34.64	1.988	-.0038	.1577	.2078

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	2774.4	7946.3	51933.	2126.5
Stddev	13.2	25.4	364.	21.0
%RSD	.47552	.31905	.70122	.98564
#1	2780.9	7960.4	52097.	2144.9
#2	2783.0	7961.4	52186.	2130.8
#3	2759.2	7917.0	51515.	2103.7

Zoom In Zoom Out

Sample Name: MP28752-SD1 Acquired: 4/3/2015 13:21:05 Type: Unk
Method: 60102007_042011(v210) Mode: CONC Corr. Factor: 5.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)
Avg	-.0003	99.09	.0181	1.226	.0032	F3605.	.0004	.0337	.0988
Stddev	.0009	.24	.0020	.005	.0003	23.	.0001	.0005	.0020
%RSD	276.1	.2427	11.14	.3925	10.18	.6441	26.07	1.631	2.011
#1	.0001	99.21	.0189	1.221	.0028	3621.	.0005	.0332	.1010
#2	-.0013	99.24	.0196	1.229	.0033	3616.	.0005	.0343	.0982
#3	.0003	98.81	.0158	1.229	.0034	3578.	.0003	.0337	.0972

Elem	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
IS Ref	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)
Avg	.0629	86.09	32.74	128.8	1.963	.0155	29.02	.0775	.0669
Stddev	.0011	.25	.23	.4	.004	.0009	.14	.0010	.0028
%RSD	1.783	.2852	.7104	.3044	.2210	5.951	.4752	1.256	4.223
#1	.0639	86.13	32.84	129.2	1.967	.0161	28.92	.0764	.0642
#2	.0631	86.32	32.91	128.9	1.965	.0145	29.18	.0782	.0667
#3	.0617	85.83	32.47	128.4	1.959	.0161	28.96	.0780	.0698

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	.0156	.0106	2.688	.0211	F42.64	2.223	-.0057	.1798	.2535
Stddev	.0005	.0078	.007	.0020	.27	.002	.0076	.0026	.0010
%RSD	3.083	73.73	.2589	9.575	.6385	.0798	133.0	1.435	.3994
#1	.0161	.0172	2.682	.0224	42.70	2.223	.0023	.1769	.2528
#2	.0155	.0020	2.695	.0188	42.88	2.225	-.0065	.1816	.2532
#3	.0151	.0125	2.686	.0221	42.35	2.222	-.0129	.1810	.2547

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	3422.4	8748.0	54925.	2185.8
Stddev	39.7	99.0	577.	18.1
%RSD	1.1611	1.1313	1.0504	.82581
#1	3407.3	8711.4	55576.	2173.7
#2	3392.3	8672.5	54477.	2206.6
#3	3467.4	8860.0	54722.	2177.2

Zoom In Zoom Out

Sample Name: MP28752-PS1 Acquired: 4/3/2015 13:25:38 Type: Unk
Method: 60102007_042011(v210) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)
Avg	.0527	93.55	.1424	1.388	.0471	F2920.	.0484	.0743	.1342
Stddev	.0013	.50	.0015	.010	.0005	52.	.0001	.0003	.0007
%RSD	2.479	.5361	1.058	.7311	1.118	1.763	.3000	.3534	.5239
#1	.0512	93.92	.1430	1.395	.0474	2933.	.0485	.0743	.1343
#2	.0530	92.98	.1407	1.376	.0465	2863.	.0482	.0741	.1334
#3	.0538	93.77	.1435	1.392	.0474	2964.	.0483	.0746	.1348

Elem	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
IS Ref	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)
Avg	.1527	78.58	43.49	114.1	1.778	.1053	36.31	.1587	.1292
Stddev	.0008	.34	.31	.7	.033	.0003	.38	.0008	.0025
%RSD	.5130	.4360	.7222	.6389	1.833	.2654	1.051	.5127	1.900
#1	.1536	78.82	43.85	114.5	1.742	.1051	36.61	.1597	.1318
#2	.1522	78.19	43.24	113.3	1.787	.1056	35.88	.1583	.1270
#3	.1523	78.73	43.39	114.5	1.805	.1051	36.44	.1582	.1288

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	.1263	.1246	2.552	.0660	F37.38	2.089	.1005	.2111	.4738
Stddev	.0007	.0013	.011	.0008	1.65	.004	.0053	.0019	.0055
%RSD	.5501	1.055	.4113	1.207	4.418	.1770	5.225	.8957	1.153
#1	.1271	.1261	2.543	.0668	39.03	2.086	.1064	.2103	.4801
#2	.1258	.1236	2.550	.0659	35.73	2.088	.0988	.2097	.4713
#3	.1260	.1241	2.564	.0652	37.38	2.093	.0963	.2133	.4700

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	2893.3	8327.8	51535.	2135.0
Stddev	94.9	265.1	1553.	32.8
%RSD	3.2813	3.1839	3.0130	1.5382
#1	2788.5	8043.1	53132.	2154.9
#2	2917.8	8372.6	51442.	2097.1
#3	2973.6	8567.7	50030.	2152.9

Zoom In Zoom Out

Sample Name: MP28752-S1 Acquired: 4/3/2015 13:30:27 Type: Unk
Method: 60102007_042011(v210) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)
Avg	.0489	126.6	2.292	3.085	.0449	F3058.	.0460	.4607	.2870
Stddev	.0013	.8	.022	.018	.0002	103.	.0002	.0015	.0017
%RSD	2.579	.6328	.9519	.5898	.3399	3.352	.3602	.3174	.5842
#1	.0495	126.5	2.289	3.069	.0448	2993.	.0459	.4606	.2869
#2	.0475	127.4	2.316	3.105	.0450	3176.	.0462	.4621	.2853
#3	.0498	125.8	2.273	3.081	.0451	3004.	.0459	.4592	.2887

Elem	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
IS Ref	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)
Avg	.2929	104.6	67.08	135.9	2.345	.4364	51.30	.5155	.6129
Stddev	.0008	.8	1.50	.8	.028	.0010	.33	.0026	.0050
%RSD	.2655	.7501	2.231	.5598	1.203	.2212	.6386	.5056	.8236
#1	.2935	103.7	65.38	135.0	2.349	.4365	50.97	.5160	.6152
#2	.2920	105.1	67.65	136.3	2.372	.4373	51.62	.5178	.6164
#3	.2933	105.1	68.20	136.4	2.315	.4354	51.30	.5127	.6071

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	.1497	2.473	3.057	.4733	F39.38	2.716	1.967	.6319	.7354
Stddev	.0006	.037	.008	.0020	.76	.002	.011	.0024	.0057
%RSD	.4252	1.499	.2574	.4205	1.940	.0764	.5396	.3803	.7803
#1	.1498	2.465	3.057	.4736	40.26	2.714	1.974	.6301	.7335
#2	.1503	2.513	3.065	.4750	38.95	2.716	1.973	.6311	.7419
#3	.1490	2.440	3.049	.4711	38.93	2.718	1.955	.6347	.7309

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	2869.8	8404.8	52691.	2071.5
Stddev	16.7	75.7	541.	39.2
%RSD	.58219	.90101	1.0269	1.8938
#1	2884.7	8483.8	52700.	2110.9
#2	2872.8	8397.8	53228.	2032.4
#3	2851.8	8332.9	52146.	2071.2

Zoom In Zoom Out

Sample Name: MP28752-S2 Acquired: 4/3/2015 13:35:17 Type: Unk
Method: 60102007_042011(v210) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)
Avg	.0534	130.0	2.357	3.173	.0456	F3214.	.0473	.4714	.2916
Stddev	.0006	.5	.054	.009	.0004	100.	.0006	.0011	.0007
%RSD	1.133	.4073	2.289	.2689	.7897	3.114	1.177	.2410	.2554
#1	.0527	130.5	2.326	3.181	.0460	3117.	.0470	.4716	.2915
#2	.0535	130.1	2.326	3.173	.0452	3317.	.0470	.4702	.2909
#3	.0539	129.4	2.419	3.164	.0456	3208.	.0480	.4725	.2924

Elem	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
IS Ref	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)
Avg	.3022	107.0	70.45	140.7	2.427	.4482	52.61	.5298	.6468
Stddev	.0011	.4	.62	.7	.012	.0007	.44	.0037	.0148
%RSD	.3512	.4150	.8761	.5227	.4763	.1647	.8347	.6966	2.296
#1	.3034	107.5	71.10	141.5	2.439	.4486	53.08	.5279	.6357
#2	.3013	106.8	69.87	140.5	2.425	.4474	52.56	.5275	.6410
#3	.3020	106.7	70.39	140.0	2.416	.4487	52.20	.5341	.6636

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	.1571	2.535	3.158	.4917	F42.70	2.785	2.060	.6536	.7645
Stddev	.0018	.075	.005	.0071	.86	.007	.021	.0027	.0195
%RSD	1.143	2.950	.1647	1.444	2.008	.2610	1.011	.4125	2.547
#1	.1581	2.486	3.159	.4873	42.72	2.783	2.050	.6528	.7520
#2	.1551	2.497	3.152	.4880	43.55	2.778	2.047	.6514	.7545
#3	.1583	2.621	3.162	.4999	41.83	2.793	2.084	.6566	.7869

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	2604.0	7713.9	46452.	1814.0
Stddev	72.7	184.1	260.	22.1
%RSD	2.7901	2.3872	.56007	1.2190
#1	2662.1	7847.5	46749.	1823.0
#2	2627.4	7790.3	46266.	1830.3
#3	2522.6	7503.8	46340.	1788.8

Zoom In Zoom Out

Sample Name: CCV Acquired: 4/3/2015 13:40:07 Type: QC
Method: 60102007_042011(v210) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2579	38.53	2.161	2.011	1.822	39.95	2.114	2.026	2.104
Stddev	.0010	.18	.006	.007	.009	.17	.004	.002	.004
%RSD	.3745	.4697	.2834	.3525	.4930	.4159	.2069	.1175	.1847
#1	.2589	38.51	2.167	2.006	1.816	39.90	2.117	2.028	2.107
#2	.2577	38.72	2.162	2.019	1.832	40.13	2.116	2.026	2.104
#3	.2570	38.36	2.155	2.008	1.817	39.81	2.109	2.024	2.100
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value									
Range									

Elem	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.046	40.73	F44.66	38.98	2.107	1.999	39.27	2.053	2.185
Stddev	.004	.02	.22	.24	.029	.002	.26	.002	.004
%RSD	.1905	.0584	.4819	.6218	1.370	.1069	.6530	.1035	.1893
#1	2.051	40.74	44.47	38.72	2.075	1.997	39.05	2.055	2.189
#2	2.043	40.75	44.89	39.20	2.131	2.001	39.55	2.052	2.185
#3	2.045	40.70	44.62	39.02	2.116	1.998	39.20	2.051	2.181
Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value			40.00						
Range			10.00%						

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.042	F2.234	2.092	2.125	1.985	2.048	2.105	2.054	2.194
Stddev	.001	.004	.005	.002	.009	.006	.006	.005	.003
%RSD	.0320	.1916	.2335	.1099	.4688	.3009	.2915	.2329	.1148
#1	2.042	2.236	2.098	2.128	1.980	2.055	2.112	2.059	2.196
#2	2.042	2.238	2.089	2.125	1.995	2.046	2.100	2.052	2.194
#3	2.041	2.230	2.090	2.123	1.978	2.043	2.103	2.050	2.191
Check ?	Chk Pass	Chk Fail	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value		2.000							
Range		10.00%							

Zoom In
Zoom Out

Sample Name: CCV Acquired: 4/3/2015 13:40:07 Type: QC
Method: 60102007_042011(v210) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3435.4	8551.6	53002.	1829.6
Stddev	2.4	11.8	120.	21.6
%RSD	.06896	.13776	.22598	1.1787
#1	3437.1	8558.0	52872.	1836.3
#2	3432.7	8538.0	53027.	1805.5
#3	3436.4	8558.7	53107.	1847.0

Zoom In
Zoom Out

Sample Name: CCB Acquired: 4/3/2015 13:44:36 Type: QC
Method: 60102007_042011(v210) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F.0011	.0125	-.0006	.0008	-.0001	.0059	.0000	.0001
Stddev	.0005	.0212	.0007	.0005	.0001	.0067	.000	.0000
%RSD	45.65	169.2	110.4	64.80	103.2	114.1	87.53	53.45
#1	.0017	.0335	-.0011	.0004	.0000	-.0017	-.0001	.0000
#2	.0009	-.0089	.0002	.0015	-.0003	.0081	.0000	.0001
#3	.0008	.0130	-.0010	.0006	-.0001	.0112	.0000	.0001
Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	.0010							
Low Limit	-.0010							

Elem	Cr2677	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0001	-.0005	.0065	.2346	-.0147	.0001	F.0019	.0327
Stddev	.0000	.0004	.0073	.0141	.0538	.0000	.0003	.0175
%RSD	45.02	74.57	113.6	6.013	367.3	41.32	15.64	53.52
#1	-.0001	-.0008	.0137	.2502	-.0483	.0001	.0023	.0511
#2	-.0001	-.0007	.0067	.2309	.0474	.0001	.0018	.0307
#3	-.0001	-.0001	-.0010	.2227	-.0431	.0001	.0017	.0162
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit							.0010	
Low Limit							-.0010	

Elem	Ni2316	Pb2203	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0002	.0003	.0010	.0004	-.0003	.0002	-.0002	.0010
Stddev	.0003	.0001	.0011	.0018	.0006	.0003	.0003	.0004
%RSD	191.5	34.65	110.0	431.5	230.5	178.7	135.7	38.69
#1	.0003	.0004	.0000	.0024	.0005	.0003	-.0003	.0011
#2	.0004	.0002	.0008	.0000	-.0005	.0003	-.0005	.0013
#3	-.0002	.0003	.0021	-.0012	-.0008	-.0002	.0001	.0006
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Zoom In
Zoom Out

Sample Name: CCB Acquired: 4/3/2015 13:44:36 Type: QC
Method: 60102007_042011(v210) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm
Avg	F-.0027	-.0003	.0001
Stddev	.0013	.0004	.0001
%RSD	50.22	113.5	39.50
#1	-.0019	-.0002	.0001
#2	-.0018	.0000	.0001
#3	-.0042	-.0008	.0002
Check ?	Chk Fail	Chk Pass	Chk Pass
High Limit	.0020		
Low Limit	-.0020		

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4051.8	9126.7	57304.	1975.4
Stddev	19.8	56.2	505.	30.7
%RSD	.48927	.61603	.88052	1.5564
#1	4072.6	9188.6	57850.	1998.5
#2	4033.1	9078.7	57206.	1940.5
#3	4049.7	9113.0	56855.	1987.1

Zoom In
Zoom Out

Sample Name: CCV Acquired: 4/3/2015 14:07:44 Type: QC
Method: 60102007_042011(v210) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2480	40.50	1.993	2.027	2.030	40.50	2.016	2.019	2.018	2.020
Stddev	.0008	.15	.006	.012	.003	.05	.003	.003	.002	.004
%RSD	.3249	.3816	.3006	.5725	.1697	.1267	.1701	.1641	.0960	.1909
#1	.2476	40.32	2.000	2.016	2.026	40.44	2.020	2.022	2.020	2.020
#2	.2475	40.59	1.991	2.039	2.033	40.54	2.015	2.017	2.016	2.017
#3	.2490	40.59	1.989	2.025	2.031	40.51	2.014	2.017	2.018	2.024
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value										
Range										

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	40.71	40.70	40.40	2.054	2.013	41.13	2.021	1.990	1.999	2.001
Stddev	.08	.11	.24	.044	.001	.11	.002	.002	.003	.004
%RSD	.2064	.2662	.6003	2.140	.0677	.2618	.0974	.1150	.1525	.2156
#1	40.61	40.61	40.45	2.098	2.013	41.00	2.023	1.987	2.003	2.003
#2	40.75	40.68	40.61	2.055	2.011	41.19	2.020	1.991	1.997	2.004
#3	40.76	40.82	40.13	2.010	2.014	41.19	2.019	1.991	1.997	1.996
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value										
Range										

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.061	2.003	2.023	2.039	2.014	1.993	2.017
Stddev	.004	.004	.009	.005	.005	.005	.002
%RSD	.1961	.2088	.4217	.2373	.2302	.2752	.1200
#1	2.065	2.008	2.019	2.044	2.012	1.997	2.019
#2	2.059	2.000	2.033	2.036	2.019	1.987	2.015
#3	2.058	2.001	2.018	2.037	2.010	1.996	2.015
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Zoom In
Zoom Out

Sample Name: CCV Acquired: 4/3/2015 14:07:44 Type: QC
Method: 60102007_042011(v210) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3501.3	8711.7	55152.	2021.3
Stddev	10.7	24.6	681.	10.4
%RSD	.30467	.28255	1.2356	.51658
#1	3512.7	8725.3	54411.	2032.9
#2	3499.6	8726.6	55294.	2018.0
#3	3491.6	8683.3	55751.	2012.8

Zoom In
Zoom Out

Sample Name: CCB Acquired: 4/3/2015 14:17:51 Type: QC
Method: 60102007_042011(v210) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0006	.0007	-.0004	-.0004	.0002	-.0147	.0001	.0001	-.0002
Stddev	.0009	.0349	.0005	.0004	.0002	.0052	.0000	.0001	.0002
%RSD	153.2	5147.	117.6	87.91	140.9	35.75	17.15	106.0	88.91
#1	-.0001	.0233	-.0007	-.0004	.0002	-.0130	.0001	.0002	-.0003
#2	.0016	.0181	-.0007	-.0009	-.0001	-.0105	.0000	.0000	.0000
#3	.0002	-.0395	.0001	-.0001	.0004	-.0206	.0001	.0001	-.0003
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0004	.0005	-.0639	-.0199	.0000	.0001	-.0053	.0000	F.0011
Stddev	.0002	.0043	.0127	.0147	.0000	.0002	.0118	.000	.0006
%RSD	52.43	788.9	19.82	73.74	74.97	169.3	223.3	1344.	57.88
#1	.0006	.0044	-.0772	-.0047	.0000	-.0001	.0061	-.0002	.0013
#2	.0003	.0013	-.0519	-.0210	.0001	.0002	-.0045	-.0002	.0004
#3	.0003	-.0040	-.0627	-.0341	.0000	.0003	-.0174	.0003	.0017
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit									.0010
Low Limit									-.0010

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F.0025	-.0001	-.0014	-.0004	-.0001	-.0001	-.0007	-.0005	.0002
Stddev	.0004	.0004	.0002	.0003	.0002	.0001	.0010	.0004	.0001
%RSD	15.84	472.4	13.82	77.13	405.7	127.0	146.1	80.37	22.24
#1	.0022	-.0005	-.0014	-.0004	.0002	.0000	-.0018	-.0005	.0002
#2	.0029	-.0002	-.0011	-.0001	-.0002	-.0001	.0000	-.0008	.0003
#3	.0022	.0004	-.0015	-.0007	-.0001	-.0002	-.0003	-.0001	.0003
Check ?	Chk Fail	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	.0020								
Low Limit	-.0020								

Zoom In
Zoom Out

Sample Name: CCB Acquired: 4/3/2015 14:17:51 Type: QC
Method: 60102007_042011(v210) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4083.2	9167.1	58122.	2087.1
Stddev	6.3	13.8	318.	.5
%RSD	.15413	.15060	.54658	.02499
#1	4081.4	9159.1	58487.	2087.3
#2	4078.0	9159.2	57967.	2087.5
#3	4090.2	9183.1	57911.	2086.5

Zoom In
Zoom Out

Sample Name: CCV Acquired: 4/3/2015 16:07:55 Type: QC
Method: 60102007_042011(v210) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2486	40.21	2.037	1.990	1.999	39.89	2.037	2.024	2.040	2.027
Stddev	.0015	.10	.004	.002	.002	.13	.002	.002	.003	.003
%RSD	.5844	.2446	.1879	.1075	.0989	.3244	.1155	.0727	.1332	.1517
#1	.2475	40.31	2.041	1.989	1.999	39.87	2.035	2.022	2.037	2.024
#2	.2480	40.19	2.037	1.988	2.002	39.77	2.039	2.024	2.041	2.029
#3	.2502	40.11	2.033	1.992	1.998	40.03	2.036	2.025	2.042	2.029
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value										
Range										

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	40.60	40.15	40.22	2.048	2.022	39.81	2.017	1.972	2.030	2.028
Stddev	.08	.05	.16	.008	.003	.21	.001	.001	.002	.000
%RSD	.2074	.1188	.3944	.3966	.1561	.5245	.0536	.0581	.0980	.0080
#1	40.69	40.09	40.40	2.047	2.019	39.86	2.016	1.972	2.031	2.028
#2	40.52	40.18	40.10	2.056	2.024	39.58	2.017	1.974	2.028	2.028
#3	40.58	40.17	40.16	2.040	2.024	39.99	2.018	1.971	2.032	2.028
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value										
Range										

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.080	2.012	1.994	2.065	1.988	1.999	2.020
Stddev	.002	.001	.003	.004	.007	.003	.002
%RSD	.1107	.0322	.1368	.1716	.3667	.1690	.0798
#1	2.079	2.012	1.992	2.064	1.992	1.996	2.019
#2	2.078	2.012	1.997	2.062	1.993	2.002	2.020
#3	2.082	2.013	1.992	2.069	1.980	1.997	2.022
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Zoom In Zoom Out

Sample Name: CCV Acquired: 4/3/2015 16:07:55 Type: QC
Method: 60102007_042011(v210) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2697.8	8066.9	53755.	2277.9
Stddev	2.3	11.5	220.	13.5
%RSD	.08554	.14307	.40973	.59208
#1	2697.6	8065.3	53978.	2271.9
#2	2695.5	8079.2	53538.	2293.3
#3	2700.1	8056.3	53749.	2268.4

Zoom In Zoom Out

Sample Name: CCB Acquired: 4/3/2015 16:14:10 Type: QC
Method: 60102007_042011(v210) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0007	-.0102	.0006	.0003	.0001	-.0120	.0001	.0001
Stddev	.0010	.0091	.0010	.0001	.0001	.0037	.0001	.0002
%RSD	143.8	88.93	158.6	46.49	114.3	30.68	50.45	206.2
#1	.0012	-.0067	-.0001	.0004	.0002	-.0077	.0002	.0004
#2	.0013	-.0206	.0018	.0004	.0002	-.0140	.0001	.0000
#3	-.0005	-.0034	.0002	.0002	.0000	-.0142	.0001	.0000
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Cr2677	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0003	.0009	.0057	-.2994	.0167	.0002	F.0012	-.0215
Stddev	.0002	.0001	.0032	.0538	.0292	.0000	.0002	.0169
%RSD	83.55	15.59	57.03	17.98	174.8	10.81	20.49	78.49
#1	.0001	.0009	.0090	-.2675	-.0018	.0002	.0012	-.0405
#2	.0002	.0010	.0025	-.2692	.0015	.0002	.0014	-.0156
#3	.0006	.0007	.0055	-.3615	.0503	.0002	.0010	-.0084
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit							.0010	
Low Limit							-.0010	

Elem	Ni2316	Pb2203	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0001	F-.0011	.0019	.0005	.0022	.0005	.0005	.0008
Stddev	.0001	.0003	.0009	.0022	.0013	.0001	.0001	.0001
%RSD	129.4	30.89	48.14	440.1	60.29	12.39	20.22	10.26
#1	.0000	-.0008	.0030	-.0007	.0034	.0006	.0005	.0009
#2	.0001	-.0015	.0013	.0030	.0008	.0005	.0006	.0007
#3	.0001	-.0011	.0015	-.0008	.0022	.0005	.0004	.0008
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass
High Limit		.0010						
Low Limit		-.0010						

Zoom In Zoom Out

Sample Name: CCB Acquired: 4/3/2015 16:14:10 Type: QC
Method: 60102007_042011(v210) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm
Avg	.0009	.0004	.0003
Stddev	.0018	.0004	.0000
%RSD	203.1	100.9	11.53
#1	-.0009	.0000	.0002
#2	.0008	.0004	.0002
#3	.0027	.0007	.0003
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3087.0	8363.2	55882.	2315.9
Stddev	9.9	22.6	102.	27.9
%RSD	.31980	.27064	.18207	1.2032
#1	3095.1	8382.0	55805.	2346.3
#2	3076.0	8338.1	55997.	2309.8
#3	3089.9	8369.4	55843.	2291.6

Zoom In Zoom Out

Sample Name: FA23258-1 Acquired: 4/3/2015 16:18:29 Type: Unk
Method: 60102007_042011(v210) Mode: CONC Corr. Factor: 10.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	.0089	60.77	.0298	.6643	.0010	3478.	-.0001	.0224	.0600	.0424
Stddev	.0054	.15	.0078	.0091	.0019	32.	.0003	.0012	.0011	.0052
%RSD	60.92	.2520	26.34	1.370	194.7	.9071	401.3	5.548	1.817	12.24
#1	.0150	60.87	.0375	.6613	-.0011	3494.	-.0002	.0224	.0591	.0476
#2	.0050	60.84	.0301	.6571	.0015	3498.	.0002	.0237	.0612	.0372
#3	.0066	60.59	.0218	.6745	.0024	3441.	-.0002	.0212	.0597	.0424

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	52.36	13.97	88.96	1.166	.0164	3.567	.0529	.0288	.0232	-.0138
Stddev	.16	.87	.54	.001	.0029	.139	.0020	.0146	.0203	.0092
%RSD	.2984	6.212	.6026	.1158	17.83	3.902	3.873	50.68	87.41	67.08
#1	52.25	14.17	88.69	1.166	.0197	3.425	.0529	.0359	.0314	-.0220
#2	52.28	13.02	89.58	1.167	.0151	3.572	.0549	.0120	.0382	-.0155
#3	52.54	14.73	88.62	1.164	.0143	3.703	.0508	.0385	.0001	-.0038

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	3.688	.0252	23.58	1.462	-.0103	.1125	.1505
Stddev	.007	.0013	.00	.005	.0095	.0024	.0006
%RSD	.1819	5.154	.0053	.3651	92.30	2.169	.3704
#1	3.681	.0239	23.58	1.468	-.0114	.1137	.1501
#2	3.690	.0264	23.58	1.458	-.0192	.1097	.1503
#3	3.694	.0252	23.58	1.459	-.0003	.1142	.1512

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	2672.0	7850.3	52263.	2203.5
Stddev	15.2	41.8	136.	30.3
%RSD	.56732	.53216	.25987	1.3752
#1	2682.5	7889.4	52117.	2238.5
#2	2678.8	7855.1	52386.	2185.8
#3	2654.6	7806.3	52286.	2186.2

Zoom In
Zoom Out

Sample Name: FA23258-3 Acquired: 4/3/2015 16:23:00 Type: Unk
Method: 60102007_042011(v210) Mode: CONC Corr. Factor: 10.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	.0144	35.17	.0132	.5021	-.0001	3922.	.0004	.0132	.0327	.0365
Stddev	.0009	.48	.0060	.0098	.0014	61.	.0004	.0005	.0041	.0046
%RSD	6.025	1.371	45.61	1.960	2061.	1.550	82.72	3.862	12.50	12.50
#1	.0137	35.09	.0084	.5081	.0016	3862.	.0008	.0134	.0364	.0349
#2	.0154	34.73	.0112	.4908	-.0009	3920.	.0005	.0136	.0334	.0417
#3	.0142	35.68	.0200	.5075	-.0009	3984.	.0000	.0126	.0283	.0330

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	27.90	8.970	68.52	.6084	.0128	34.32	.0314	.0145	.0176	.0081
Stddev	.41	1.183	.48	.0011	.0007	.39	.0016	.0035	.0064	.0109
%RSD	1.457	13.19	.7031	.1870	5.694	1.139	4.999	23.83	36.35	134.8
#1	27.58	10.28	68.11	.6074	.0127	33.94	.0309	.0175	.0240	.0171
#2	27.77	8.641	68.40	.6083	.0120	34.30	.0301	.0153	.0174	-.0040
#3	28.36	7.987	69.05	.6097	.0135	34.72	.0331	.0107	.0113	.0112

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	3.094	.0251	35.43	.8180	-.0039	.0781	.0903
Stddev	.011	.0071	.34	.0044	.0111	.0027	.0009
%RSD	.3554	28.28	.9678	.5335	285.9	3.472	1.028
#1	3.106	.0182	35.13	.8147	.0080	.0775	.0914
#2	3.084	.0248	35.34	.8229	-.0141	.0758	.0900
#3	3.091	.0324	35.80	.8164	-.0056	.0811	.0896

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	2617.3	7692.9	50310.	2113.2
Stddev	6.6	30.2	53.	39.1
%RSD	.25306	.39219	.10563	1.8506
#1	2609.9	7658.6	50249.	2146.9
#2	2619.1	7705.0	50333.	2122.5
#3	2622.8	7715.2	50348.	2070.3

Zoom In
Zoom Out

Sample Name: FA23258-7 Acquired: 4/3/2015 16:27:34 Type: Unk
Method: 60102007_042011(v210) Mode: CONC Corr. Factor: 10.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	.0156	61.21	.0201	.8601	-.0009	4453.	.0001	.0220	.0540	.0629
Stddev	.0060	.46	.0075	.0015	.0019	40.	.0006	.0018	.0006	.0045
%RSD	38.29	.7551	37.47	.1711	214.8	.9065	794.0	8.243	1.035	7.152
#1	.0089	61.35	.0198	.8617	-.0012	4407.	.0002	.0213	.0535	.0585
#2	.0172	60.69	.0127	.8596	.0012	4477.	.0005	.0206	.0539	.0675
#3	.0205	61.58	.0278	.8589	-.0026	4476.	-.0006	.0241	.0546	.0628

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	49.38	18.16	147.7	1.087	.0137	23.91	.0520	.0181	.0404	.0295
Stddev	.34	.33	.4	.003	.0008	.24	.0010	.0015	.0104	.0060
%RSD	.6856	1.811	.2517	.2375	6.028	1.003	1.831	8.279	25.79	20.31
#1	49.03	18.23	147.6	1.089	.0143	24.16	.0531	.0174	.0465	.0228
#2	49.43	17.80	147.5	1.085	.0140	23.68	.0514	.0198	.0284	.0343
#3	49.70	18.45	148.2	1.085	.0128	23.89	.0514	.0171	.0464	.0313

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	4.083	.0218	33.77	1.522	.0048	.1336	.1472
Stddev	.004	.0029	.08	.002	.0107	.0020	.0002
%RSD	.0966	13.22	.2280	.1078	223.0	1.470	.1202
#1	4.084	.0198	33.70	1.522	.0046	.1316	.1471
#2	4.086	.0251	33.76	1.524	-.0058	.1356	.1474
#3	4.078	.0205	33.85	1.521	.0156	.1337	.1471

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	2638.5	7797.7	50102.	2064.4
Stddev	13.0	40.7	244.	37.8
%RSD	.49351	.52171	.48729	1.8319
#1	2628.8	7786.0	49851.	2097.3
#2	2633.5	7764.2	50116.	2072.9
#3	2653.3	7843.0	50339.	2023.1

Zoom In
Zoom Out

Sample Name: FA23258-8 Acquired: 4/3/2015 16:32:09 Type: Unk
Method: 60102007_042011(v210) Mode: CONC Corr. Factor: 10.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	.0168	64.69	.0155	.9663	-.0002	3882.	.0005	.0212	.0618	.0599
Stddev	.0053	.53	.0062	.0135	.0006	5.	.0004	.0000	.0025	.0033
%RSD	31.50	.8186	39.97	1.400	341.4	.1165	85.21	.2184	4.060	5.537
#1	.0215	64.21	.0111	.9798	-.0004	3887.	.0001	.0212	.0591	.0574
#2	.0179	64.60	.0128	.9665	-.0006	3878.	.0010	.0212	.0641	.0636
#3	.0111	65.26	.0225	.9527	.0005	3881.	.0004	.0212	.0622	.0586

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	52.09	17.68	144.7	1.192	.0135	22.48	.0553	.0193	.0190	-.0160
Stddev	.28	.67	1.1	.004	.0020	.20	.0015	.0047	.0148	.0208
%RSD	.5365	3.781	.7422	.3716	14.65	.8961	2.785	24.17	77.62	129.8
#1	52.41	18.30	145.5	1.197	.0132	22.64	.0568	.0229	.0224	.0062
#2	51.87	16.97	143.4	1.192	.0157	22.56	.0553	.0209	.0029	-.0349
#3	52.00	17.77	145.0	1.188	.0117	22.26	.0537	.0140	.0319	-.0193

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	3.928	.0226	37.75	1.565	-.0094	.1320	.1563
Stddev	.011	.0021	.20	.005	.0154	.0048	.0004
%RSD	.2698	9.235	.5182	.3193	163.7	3.635	.2466
#1	3.928	.0247	37.92	1.570	-.0202	.1284	.1564
#2	3.917	.0205	37.53	1.560	.0082	.1301	.1566
#3	3.939	.0227	37.79	1.564	-.0162	.1374	.1559

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	2674.0	7905.3	50564.	2066.9
Stddev	7.6	23.1	185.	21.7
%RSD	.28551	.29263	.36567	1.0492
#1	2668.9	7884.8	50373.	2055.9
#2	2670.4	7900.6	50576.	2091.8
#3	2682.8	7930.4	50742.	2052.8

Zoom In
Zoom Out

Sample Name: FA23258-10 Acquired: 4/3/2015 16:36:45 Type: Unk
Method: 60102007_042011(v210) Mode: CONC Corr. Factor: 10.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	.0146	55.16	.0168	.7012	-.0004	3910.	.0001	.0212	.0550	.0558
Stddev	.0077	.29	.0033	.0054	.0005	91.	.0004	.0014	.0018	.0050
%RSD	52.29	.5329	19.76	.7644	125.8	2.331	350.8	6.805	3.202	9.010
#1	.0204	54.82	.0178	.7044	-.0009	3805.	.0002	.0196	.0547	.0601
#2	.0175	55.31	.0196	.7043	-.0002	3962.	.0005	.0216	.0569	.0503
#3	.0060	55.35	.0131	.6950	.0000	3963.	-.0003	.0223	.0534	.0571

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	49.17	14.37	96.43	1.219	.0101	11.01	.0491	.0282	.0393	-.0133
Stddev	.28	.54	.82	.003	.0017	.20	.0020	.0111	.0122	.0361
%RSD	.5715	3.751	.8500	.2082	16.49	1.777	4.044	39.50	31.08	272.0
#1	49.09	14.89	97.35	1.219	.0085	10.94	.0514	.0159	.0253	-.0344
#2	49.48	13.81	96.17	1.221	.0100	10.85	.0479	.0376	.0474	-.0339
#3	48.93	14.41	95.77	1.216	.0118	11.23	.0480	.0309	.0452	.0284

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	3.423	.0263	30.10	1.539	-.0052	.1142	.1542
Stddev	.028	.0036	.07	.003	.0099	.0056	.0011
%RSD	.8027	13.66	.2361	.1754	188.6	4.897	.7347
#1	3.450	.0222	30.18	1.537	.0061	.1170	.1553
#2	3.424	.0291	30.09	1.537	-.0096	.1179	.1542
#3	3.395	.0275	30.04	1.542	-.0121	.1078	.1530

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	2655.0	7823.7	50580.	2063.8
Stddev	12.2	31.3	245.	13.9
%RSD	.45943	.39958	.48373	.67369
#1	2658.1	7830.0	50350.	2079.9
#2	2641.5	7789.7	50554.	2055.3
#3	2665.2	7851.2	50837.	2056.3

Zoom In Zoom Out

Sample Name: FA23258-12 Acquired: 4/3/2015 16:41:18 Type: Unk
Method: 60102007_042011(v210) Mode: CONC Corr. Factor: 10.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	.0137	116.7	.0327	1.242	.0042	4431.	.0015	.0445	.1137	.0816
Stddev	.0037	.1	.0060	.004	.0013	82.	.0004	.0006	.0044	.0044
%RSD	27.04	.0466	18.38	.3450	31.84	1.855	29.01	1.295	3.909	5.443
#1	.0115	116.7	.0282	1.238	.0057	4352.	.0013	.0445	.1125	.0772
#2	.0116	116.7	.0395	1.243	.0037	4516.	.0011	.0439	.1186	.0815
#3	.0180	116.8	.0303	1.246	.0032	4423.	.0019	.0450	.1100	.0861

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	106.8	36.01	121.3	2.717	.0138	9.834	.1011	.0602	.0239	-.0049
Stddev	.4	.44	.7	.004	.0024	.201	.0015	.0233	.0141	.0007
%RSD	.3818	1.212	.5625	.1597	17.80	2.043	1.496	38.71	58.94	14.00
#1	106.4	35.68	121.4	2.715	.0119	10.03	.0995	.0834	.0083	-.0041
#2	106.8	36.51	120.6	2.714	.0129	9.632	.1025	.0604	.0356	-.0054
#3	107.3	35.85	122.0	2.722	.0165	9.836	.1012	.0368	.0277	-.0052

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	4.690	.0257	23.04	2.481	-.0013	.2123	.3219
Stddev	.012	.0038	.10	.007	.0157	.0031	.0010
%RSD	.2534	14.66	.4416	.2910	1190.	1.474	.3162
#1	4.677	.0277	22.92	2.482	-.0166	.2111	.3209
#2	4.695	.0214	23.07	2.474	.0148	.2099	.3218
#3	4.699	.0280	23.11	2.488	-.0021	.2158	.3229

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	2624.3	7858.7	51050.	2092.6
Stddev	20.4	48.9	205.	14.5
%RSD	.77761	.62220	.40067	.69355
#1	2644.0	7909.0	51220.	2099.6
#2	2603.3	7811.3	50823.	2075.9
#3	2625.7	7855.8	51107.	2102.3

Zoom In Zoom Out

Sample Name: FA23258-15 Acquired: 4/3/2015 16:45:55 Type: Unk
Method: 60102007_042011(v210) Mode: CONC Corr. Factor: 10.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	.0218	83.33	.0292	.9089	.0024	3250.	.0006	.0321	.0806	.0633
Stddev	.0080	.63	.0123	.0071	.0029	4.	.0008	.0005	.0037	.0030
%RSD	36.78	.7590	42.21	.7824	122.1	.1208	132.6	1.482	4.572	4.805
#1	.0175	84.04	.0292	.9087	.0051	3254.	.0011	.0316	.0777	.0600
#2	.0169	82.84	.0169	.9161	.0028	3246.	.0011	.0321	.0794	.0659
#3	.0311	83.11	.0416	.9019	-.0007	3249.	-.0003	.0326	.0848	.0641

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	77.79	28.27	69.14	1.981	.0075	22.20	.0757	.0336	.0113	-.0012
Stddev	.27	.31	.41	.002	.0029	.10	.0024	.0104	.0182	.0200
%RSD	.3431	1.080	.5872	.0944	38.79	.4298	3.151	30.83	160.2	1711.
#1	77.51	28.48	69.45	1.983	.0096	22.13	.0764	.0284	-.0011	-.0201
#2	77.83	28.40	68.68	1.979	.0087	22.17	.0776	.0268	.0322	.0197
#3	78.04	27.92	69.29	1.981	.0042	22.31	.0730	.0455	.0029	-.0031

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	4.108	.0202	15.63	1.907	-.0057	.1347	.2414
Stddev	.004	.0035	.04	.003	.0099	.0056	.0004
%RSD	.0885	17.39	.2706	.1332	173.9	4.187	.1560
#1	4.105	.0163	15.68	1.909	-.0123	.1338	.2417
#2	4.112	.0210	15.59	1.904	-.0104	.1408	.2410
#3	4.107	.0232	15.62	1.909	.0057	.1296	.2414

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	2697.8	7973.4	51021.	2075.9
Stddev	7.3	5.3	296.	17.8
%RSD	.26905	.06661	.58054	.85769
#1	2689.9	7967.6	51018.	2060.7
#2	2699.3	7974.3	50726.	2071.5
#3	2704.1	7978.1	51319.	2095.5

Zoom In Zoom Out

Sample Name: FA23258-17 Acquired: 4/3/2015 16:50:22 Type: Unk
Method: 60102007_042011(v210) Mode: CONC Corr. Factor: 10.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	.0119	93.86	.0248	.9320	.0021	3885.	.0003	.0340	.0901	.0713
Stddev	.0017	.50	.0035	.0024	.0017	46.	.0002	.0006	.0002	.0011
%RSD	14.61	.5345	14.17	.2527	82.99	1.195	70.95	1.672	.2581	1.544
#1	.0118	93.98	.0246	.9308	.0020	3841.	.0006	.0338	.0899	.0725
#2	.0138	93.31	.0214	.9305	.0004	3934.	.0002	.0346	.0903	.0703
#3	.0103	94.29	.0284	.9347	.0039	3881.	.0002	.0335	.0901	.0712

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	85.32	26.90	113.2	2.122	.0128	45.02	.0816	.0416	.0156	.0057
Stddev	.13	.86	.2	.007	.0045	.37	.0022	.0093	.0136	.0295
%RSD	.1488	3.180	.2197	.3311	35.39	.8305	2.666	22.40	87.02	515.1
#1	85.20	27.83	113.3	2.115	.0151	44.63	.0815	.0522	.0075	.0396
#2	85.45	26.72	113.4	2.122	.0076	45.37	.0839	.0379	.0081	-.0083
#3	85.32	26.15	112.9	2.129	.0157	45.06	.0795	.0347	.0312	-.0141

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	4.886	.0287	18.72	2.293	.0005	.1561	.2645
Stddev	.020	.0008	.02	.003	.0022	.0058	.0014
%RSD	.3994	2.630	.1169	.1168	430.2	3.723	.5358
#1	4.871	.0295	18.72	2.290	-.0011	.1557	.2634
#2	4.908	.0280	18.69	2.294	.0030	.1504	.2640
#3	4.878	.0287	18.73	2.295	-.0004	.1620	.2661

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	2759.0	8277.5	52636.	2161.0
Stddev	7.9	36.9	210.	5.7
%RSD	.28774	.44559	.39884	.26397
#1	2762.3	8288.7	52877.	2164.8
#2	2764.7	8307.5	52499.	2154.4
#3	2749.9	8236.3	52531.	2163.7

Zoom In Zoom Out

Sample Name: FA23258-19 Acquired: 4/3/2015 16:54:59 Type: Unk
Method: 60102007_042011(v210) Mode: CONC Corr. Factor: 10.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	.0184	67.19	.0176	.8289	.0006	3195.	.0002	.0235	.0619	.0583
Stddev	.0043	.30	.0046	.0079	.0025	10.	.0008	.0009	.0046	.0024
%RSD	23.51	.4413	26.19	.9546	413.3	.3226	407.9	3.739	7.410	4.098
#1	.0176	67.27	.0204	.8363	.0034	3203.	-.0004	.0231	.0669	.0610
#2	.0231	67.45	.0123	.8299	-.0004	3197.	.0011	.0229	.0610	.0570
#3	.0146	66.87	.0201	.8205	-.0012	3183.	.0000	.0245	.0578	.0567

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	57.69	14.70	115.8	1.336	.0107	4.528	.0540	.0320	.0167	-.0170
Stddev	.19	.63	.2	.004	.0007	.133	.0014	.0083	.0175	.0102
%RSD	.3241	4.271	.1625	.2863	6.367	2.933	2.556	25.95	104.6	60.25
#1	57.68	14.32	115.8	1.340	.0113	4.382	.0552	.0393	.0343	-.0067
#2	57.88	14.36	116.0	1.336	.0099	4.642	.0542	.0336	-.0006	-.0172
#3	57.51	15.43	115.7	1.333	.0109	4.560	.0525	.0230	.0164	-.0271

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	3.918	.0234	30.85	1.733	-.0063	.1279	.1817
Stddev	.011	.0002	.08	.002	.0065	.0017	.0004
%RSD	.2881	.9358	.2754	.0943	102.3	1.316	.2221
#1	3.917	.0235	30.95	1.732	.0000	.1271	.1813
#2	3.908	.0235	30.79	1.733	-.0061	.1298	.1818
#3	3.930	.0231	30.81	1.735	-.0129	.1267	.1821

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	2696.4	7962.8	50802.	2052.0
Stddev	13.7	42.6	362.	12.2
%RSD	.50805	.53527	.71259	.59384
#1	2682.2	7916.3	50393.	2042.8
#2	2697.4	7972.0	51083.	2047.4
#3	2709.5	8000.0	50930.	2065.8

Zoom In Zoom Out

Sample Name: FA23258-21 Acquired: 4/3/2015 16:59:27 Type: Unk
Method: 60102007_042011(v210) Mode: CONC Corr. Factor: 10.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	.0229	111.2	.0276	1.119	.0018	3877.	.0011	.0384	.1046	.0794
Stddev	.0023	.2	.0062	.006	.0005	27.	.0003	.0013	.0028	.0032
%RSD	10.08	.1658	22.51	.5680	27.83	.7017	25.08	3.266	2.648	3.985
#1	.0246	111.4	.0342	1.123	.0020	3849.	.0014	.0396	.1055	.0805
#2	.0202	111.1	.0218	1.112	.0012	3879.	.0009	.0371	.1068	.0818
#3	.0238	111.1	.0268	1.123	.0021	3903.	.0010	.0385	.1015	.0758

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	96.84	29.82	126.7	2.489	.0113	5.419	.0858	.0519	.0231	-.0272
Stddev	.38	.09	.7	.005	.0022	.194	.0016	.0042	.0151	.0191
%RSD	.3917	.2985	.5564	.2210	19.37	3.573	1.816	8.110	65.37	70.04
#1	96.98	29.72	127.4	2.491	.0110	5.641	.0852	.0568	.0251	-.0300
#2	96.41	29.87	126.0	2.483	.0092	5.328	.0846	.0493	.0371	-.0069
#3	97.12	29.88	126.7	2.494	.0136	5.287	.0875	.0498	.0071	-.0447

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	4.726	.0223	18.23	2.329	-.0102	.1776	.3161
Stddev	.001	.0011	.05	.010	.0033	.0035	.0007
%RSD	.0302	5.020	.2960	.4260	32.74	1.987	.2368
#1	4.728	.0219	18.25	2.339	-.0121	.1754	.3154
#2	4.725	.0216	18.17	2.319	-.0122	.1757	.3169
#3	4.727	.0236	18.28	2.327	-.0064	.1816	.3161

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	2653.0	7948.4	50943.	2070.0
Stddev	12.1	33.6	128.	17.7
%RSD	.45778	.42260	.25117	.85558
#1	2652.6	7958.4	50921.	2090.2
#2	2665.3	7975.8	50827.	2057.1
#3	2641.1	7910.9	51080.	2062.7

Zoom In Zoom Out

Sample Name: CCV Acquired: 4/3/2015 17:03:58 Type: QC
Method: 60102007_042011(v210) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2593	41.05	2.125	2.010	1.985	40.74	2.143	2.087	2.171	2.076
Stddev	.0004	.24	.005	.014	.012	.28	.002	.001	.003	.001
%RSD	.1534	.5771	.2462	.6877	.5918	.6972	.0897	.0592	.1353	.0562
#1	.2595	40.92	2.123	2.002	1.980	40.54	2.144	2.088	2.167	2.075
#2	.2596	40.91	2.121	2.002	1.977	40.62	2.141	2.086	2.173	2.074
#3	.2588	41.33	2.131	2.026	1.999	41.07	2.144	2.085	2.172	2.077
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value										
Range										

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	41.54	42.03	41.72	2.129	2.054	40.36	2.077	2.092	2.069	2.131
Stddev	.26	.24	.31	.035	.003	.31	.003	.010	.007	.004
%RSD	.6180	.5705	.7440	1.629	.1204	.7734	.1549	.4575	.3547	.1929
#1	41.48	41.82	41.55	2.150	2.052	40.09	2.079	2.099	2.071	2.126
#2	41.32	41.98	41.52	2.148	2.053	40.28	2.078	2.095	2.061	2.133
#3	41.82	42.29	42.07	2.089	2.056	40.70	2.073	2.081	2.075	2.134
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value										
Range										

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.121	2.118	2.022	2.140	2.043	2.093	2.170
Stddev	.004	.002	.013	.001	.007	.001	.004
%RSD	.2072	.0697	.6274	.0599	.3584	.0433	.1721
#1	2.123	2.119	2.020	2.138	2.049	2.092	2.173
#2	2.116	2.118	2.010	2.141	2.044	2.094	2.171
#3	2.124	2.116	2.035	2.141	2.035	2.094	2.166
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Zoom In Zoom Out

Sample Name: CCV Acquired: 4/3/2015 17:03:58 Type: QC
Method: 60102007_042011(v210) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2627.5	7808.7	50155.	1982.4
Stddev	17.4	31.3	81.	27.8
%RSD	.66102	.40038	.16197	1.4035
#1	2611.9	7778.4	50166.	2011.7
#2	2624.2	7806.8	50231.	1979.1
#3	2646.2	7840.8	50069.	1956.3

Zoom In Zoom Out

Sample Name: CCB Acquired: 4/3/2015 17:08:28 Type: QC
Method: 60102007_042011(v210) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F.0032	.0112	.0011	.0003	.0001	-.0100	.0001	.0003	-.0001
Stddev	.0012	.0160	.0002	.0007	.0000	.0051	.0001	.0002	.0003
%RSD	37.18	142.9	15.26	258.1	30.09	51.26	72.79	62.44	513.2
#1	.0027	.0087	.0011	-.0005	.0001	-.0041	.0002	.0001	-.0004
#2	.0024	-.0034	.0012	.0006	.0001	-.0122	.0001	.0005	.0001
#3	.0046	.0282	.0009	.0007	.0001	-.0136	.0000	.0002	.0001
Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	.0010								
Low Limit	-.0010								

Elem	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0005	.0180	-.4365	.0184	.0002	F.0023	-.0675	.0005	-.0007
Stddev	.0001	.0047	.0804	.0246	.0000	.0006	.0240	.0001	.0011
%RSD	28.46	26.16	18.42	133.7	30.69	25.10	35.57	22.47	158.9
#1	.0006	.0217	-.4004	.0405	.0001	.0029	-.0398	.0004	-.0001
#2	.0003	.0197	-.3805	.0229	.0002	.0023	-.0808	.0005	-.0019
#3	.0005	.0127	-.5287	-.0081	.0002	.0018	-.0818	.0006	.0000
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit						.0010			
Low Limit						-.0010			

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0018	-.0014	.0009	.0007	.0000	.0011	.0003	-.0001	.0003
Stddev	.0008	.0004	.0008	.0002	.0002	.0001	.0007	.0001	.0001
%RSD	44.08	26.55	86.40	26.59	585.9	10.50	246.9	167.1	36.56
#1	.0013	-.0017	.0000	.0005	.0003	.0011	.0010	.0000	.0002
#2	.0013	-.0015	.0012	.0008	.0000	.0010	.0000	.0000	.0004
#3	.0026	-.0010	.0015	.0008	-.0002	.0013	-.0002	-.0002	.0002
Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Zoom In
Zoom Out

Sample Name: CCB Acquired: 4/3/2015 17:08:28 Type: QC
Method: 60102007_042011(v210) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3033.5	8312.6	53097.	2088.0
Stddev	2.8	13.7	279.	3.3
%RSD	.09223	.16504	.52609	.15862
#1	3035.8	8299.6	53262.	2091.1
#2	3030.4	8311.2	52774.	2084.5
#3	3034.3	8327.0	53253.	2088.4

Zoom In
Zoom Out

Sample Name: FA23258-22 Acquired: 4/3/2015 17:12:56 Type: Unk
Method: 60102007_042011(v210) Mode: CONC Corr. Factor: 10.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	.0239	112.3	.0210	1.386	.0018	3733.	-.0005	.0363	.1077	.0817
Stddev	.0051	.9	.0065	.010	.0004	73.	.0001	.0004	.0037	.0012
%RSD	21.43	.8192	31.06	.7474	21.79	1.968	23.81	1.216	3.480	1.476
#1	.0279	111.6	.0284	1.378	.0022	3648.	-.0004	.0358	.1074	.0829
#2	.0181	112.0	.0182	1.383	.0016	3775.	-.0005	.0363	.1116	.0818
#3	.0255	113.4	.0163	1.398	.0015	3776.	-.0006	.0367	.1041	.0805

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	93.17	26.00	261.8	2.112	.0212	22.36	.0840	.0518	.0116	-.0310
Stddev	1.17	.42	4.0	.010	.0016	.13	.0002	.0137	.0240	.0216
%RSD	1.253	1.603	1.546	.4571	7.376	.6021	.2740	26.54	206.7	69.86
#1	91.84	25.55	257.2	2.101	.0230	22.27	.0838	.0674	-.0160	-.0115
#2	93.71	26.06	263.9	2.116	.0205	22.51	.0839	.0461	.0235	-.0271
#3	93.98	26.38	264.4	2.119	.0201	22.29	.0843	.0418	.0273	-.0543

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	4.477	.0276	36.42	2.688	-.0160	.1910	.2938
Stddev	.004	.0055	.34	.017	.0172	.0084	.0008
%RSD	.0954	20.05	.9219	.6250	107.1	4.407	.2677
#1	4.474	.0238	36.03	2.670	-.0151	.1842	.2944
#2	4.476	.0339	36.61	2.690	.0006	.2004	.2929
#3	4.482	.0251	36.62	2.703	-.0337	.1884	.2940

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	2654.3	7975.6	51033.	2100.4
Stddev	17.1	28.8	202.	21.7
%RSD	.64448	.36153	.39599	1.0341
#1	2642.3	7963.5	51252.	2120.3
#2	2646.7	7954.8	50994.	2103.8
#3	2673.9	8008.5	50853.	2077.2

Zoom In
Zoom Out

Sample Name: FA23258-23 Acquired: 4/3/2015 17:17:30 Type: Unk
Method: 60102007_042011(v210) Mode: CONC Corr. Factor: 10.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	.0228	126.3	.0350	1.321	.0033	4263.	.0004	.0480	.1274	.0893
Stddev	.0011	1.0	.0046	.009	.0017	19.	.0005	.0015	.0046	.0026
%RSD	4.643	.7916	13.07	.6707	50.06	.4430	106.4	3.178	3.646	2.944
#1	.0221	126.9	.0377	1.327	.0024	4268.	.0010	.0493	.1258	.0917
#2	.0240	126.8	.0376	1.325	.0053	4242.	.0004	.0483	.1326	.0865
#3	.0222	125.1	.0297	1.311	.0023	4279.	.0000	.0463	.1238	.0896

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	119.9	41.82	108.5	3.140	.0142	31.42	.1160	.0615	.0229	.0019
Stddev	.1	.17	.4	.011	.0007	.17	.0006	.0051	.0119	.0145
%RSD	.0687	.3958	.3566	.3417	5.220	.5522	.5516	8.264	51.84	760.2
#1	119.8	41.98	108.8	3.152	.0139	31.57	.1154	.0557	.0336	-.0142
#2	119.9	41.83	108.1	3.131	.0138	31.48	.1167	.0634	.0250	.0061
#3	119.8	41.65	108.6	3.136	.0151	31.23	.1159	.0653	.0101	.0139

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	4.290	.0286	20.60	2.617	-.0100	.2060	.3705
Stddev	.009	.0035	.07	.005	.0149	.0048	.0006
%RSD	.2021	12.21	.3599	.2114	147.9	2.341	.1728
#1	4.285	.0325	20.63	2.623	.0027	.2098	.3707
#2	4.300	.0275	20.65	2.615	-.0264	.2006	.3709
#3	4.286	.0258	20.51	2.613	-.0064	.2076	.3697

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	2672.5	8018.4	50933.	2081.6
Stddev	16.1	56.7	321.	19.7
%RSD	.60228	.70715	.62974	.94417
#1	2671.8	8041.9	50871.	2088.5
#2	2656.7	7953.7	50647.	2096.9
#3	2688.9	8059.5	51280.	2059.5

Zoom In
Zoom Out

Sample Name: FA23258-25 Acquired: 4/3/2015 17:22:04 Type: Unk
Method: 60102007_042011(v210) Mode: CONC Corr. Factor: 10.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)
Avg	.0262	120.2	.0303	1.351	.0040	4239.	.0000	.0405	.1157
Stddev	.0068	.8	.0031	.012	.0011	30.	.001	.0012	.0042
%RSD	26.06	.6708	10.34	.8532	26.71	.7019	1945.	2.895	3.627
#1	.0209	119.5	.0267	1.340	.0033	4253.	.0002	.0395	.1157
#2	.0339	121.1	.0318	1.363	.0053	4259.	.0006	.0418	.1199
#3	.0238	120.0	.0324	1.351	.0035	4205.	-.0009	.0403	.1116

Elem	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
IS Ref	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)
Avg	.0824	101.1	32.51	225.4	2.479	.0263	62.27	.0960	.0659
Stddev	.0024	.7	.85	1.1	.001	.0013	.59	.0023	.0063
%RSD	2.875	.7030	2.620	.5067	.0341	4.894	.9404	2.401	9.577
#1	.0806	100.3	31.91	224.1	2.480	.0251	61.67	.0935	.0620
#2	.0815	101.5	33.49	226.0	2.478	.0277	62.30	.0979	.0625
#3	.0851	101.5	32.14	226.2	2.479	.0262	62.84	.0967	.0732

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	.0227	-.0100	4.405	.0286	F50.20	2.712	-.0101	.2026	.3131
Stddev	.0101	.0200	.019	.0008	.34	.004	.0077	.0025	.0006
%RSD	44.41	199.5	.4223	2.796	.6736	.1321	76.52	1.243	.1944
#1	.0136	-.0270	4.422	.0291	49.81	2.716	-.0051	.2025	.3131
#2	.0336	-.0152	4.385	.0277	50.39	2.709	-.0189	.2002	.3125
#3	.0211	.0121	4.406	.0289	50.40	2.710	-.0061	.2052	.3137

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	2689.4	8105.8	50867.	2069.0
Stddev	.6	6.6	264.	13.1
%RSD	.02347	.08160	.51907	.63479
#1	2688.7	8111.4	50613.	2081.7
#2	2689.8	8098.5	51140.	2069.9
#3	2689.6	8107.5	50847.	2055.4

Zoom In
Zoom Out

Sample Name: FA23258-27 Acquired: 4/3/2015 17:26:38 Type: Unk
Method: 60102007_042011(v210) Mode: CONC Corr. Factor: 10.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	.0278	102.6	.0286	1.022	.0017	4207.	-.0007	.0362	.0992	.0677
Stddev	.0039	.7	.0129	.001	.0022	49.	.0003	.0017	.0054	.0028
%RSD	14.10	.6765	45.19	.1102	130.2	1.176	45.76	4.621	5.464	4.091
#1	.0261	103.3	.0397	1.022	.0028	4173.	-.0004	.0347	.0938	.0648
#2	.0251	102.3	.0144	1.023	-.0009	4264.	-.0010	.0358	.1046	.0703
#3	.0323	102.0	.0317	1.021	.0032	4185.	-.0006	.0380	.0993	.0679

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	88.29	27.46	153.6	2.078	.0176	23.46	.0879	.0347	.0226	.0069
Stddev	.18	1.07	.5	.003	.0025	.10	.0012	.0100	.0036	.0163
%RSD	.2046	3.906	.3555	.1455	14.00	.4288	1.394	28.81	16.13	236.2
#1	88.35	26.22	153.3	2.080	.0155	23.35	.0869	.0232	.0203	.0256
#2	88.09	28.15	153.4	2.075	.0170	23.46	.0892	.0413	.0268	-.0010
#3	88.44	28.00	154.3	2.080	.0203	23.55	.0875	.0397	.0206	-.0039

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	4.632	.0449	30.86	2.598	-.0221	.1808	.2572
Stddev	.011	.0013	.14	.005	.0069	.0036	.0004
%RSD	.2458	2.937	.4647	.1951	31.00	2.014	.1513
#1	4.631	.0464	30.97	2.603	-.0223	.1771	.2568
#2	4.644	.0442	30.70	2.594	-.0152	.1810	.2572
#3	4.622	.0440	30.92	2.596	-.0289	.1843	.2576

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	2680.8	8034.2	50544.	2083.4
Stddev	8.9	27.5	337.	31.2
%RSD	.33157	.34197	.66681	1.4994
#1	2691.0	8062.6	50901.	2065.3
#2	2674.5	8007.7	50498.	2119.5
#3	2676.9	8032.3	50232.	2065.5

Zoom In
Zoom Out

Sample Name: FA23258-29 Acquired: 4/3/2015 17:31:13 Type: Unk
Method: 60102007_042011(v210) Mode: CONC Corr. Factor: 10.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	.0277	150.4	.0524	1.609	.0035	4787.	.0005	.0549	.1486	.1046
Stddev	.0077	1.0	.0169	.004	.0028	72.	.0006	.0017	.0029	.0049
%RSD	27.79	.6915	32.30	.2567	80.65	1.500	108.8	3.110	1.976	4.657
#1	.0352	149.4	.0553	1.613	.0017	4766.	.0005	.0535	.1452	.1077
#2	.0198	151.5	.0677	1.605	.0020	4728.	.0011	.0544	.1502	.1071
#3	.0279	150.3	.0342	1.608	.0067	4867.	.0000	.0568	.1503	.0990

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	134.8	46.52	171.9	3.184	.0174	35.73	.1252	.0716	.0288	-.0318
Stddev	.7	1.00	.4	.001	.0021	.22	.0016	.0102	.0395	.0160
%RSD	.5453	2.155	.2107	.0211	12.01	.6066	1.252	14.19	137.3	50.31
#1	133.9	46.46	171.6	3.183	.0155	35.56	.1270	.0673	.0639	-.0152
#2	135.2	47.55	172.3	3.184	.0196	35.65	.1244	.0832	-.0140	-.0471
#3	135.2	45.55	171.8	3.185	.0170	35.97	.1241	.0643	.0365	-.0332

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	5.184	.0300	32.57	3.485	-.0148	.2892	.4134
Stddev	.003	.0016	.12	.003	.0054	.0032	.0022
%RSD	.0549	5.396	.3785	.0747	36.44	1.120	.5317
#1	5.181	.0312	32.45	3.486	-.0192	.2899	.4111
#2	5.186	.0282	32.70	3.487	-.0088	.2856	.4136
#3	5.183	.0307	32.55	3.483	-.0166	.2920	.4154

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	2658.1	8043.5	50612.	2032.5
Stddev	4.5	10.6	154.	7.2
%RSD	.16951	.13129	.30504	.35341
#1	2662.8	8047.4	50497.	2040.1
#2	2653.8	8031.5	50551.	2025.8
#3	2657.9	8051.5	50787.	2031.5

Zoom In
Zoom Out

Sample Name: FA23258-31 Acquired: 4/3/2015 17:35:47 Type: Unk
Method: 60102007_042011(v210) Mode: CONC Corr. Factor: 10.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	.0293	111.3	.0409	1.232	.0024	4065.	.0009	.0373	.1139	.0723
Stddev	.0021	.5	.0025	.011	.0017	113.	.0003	.0009	.0031	.0039
%RSD	7.320	.4441	6.231	.8906	70.87	2.791	29.31	2.298	2.716	5.333
#1	.0298	110.8	.0384	1.219	.0043	4097.	.0008	.0373	.1138	.0737
#2	.0312	111.5	.0408	1.237	.0021	3939.	.0007	.0382	.1171	.0753
#3	.0270	111.7	.0435	1.239	.0009	4159.	.0012	.0365	.1109	.0680

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	95.84	31.21	124.8	2.354	.0167	46.81	.0921	.0621	.0292	-.0056
Stddev	.90	.38	.6	.005	.0007	.32	.0018	.0021	.0084	.0255
%RSD	.9438	1.209	.4604	.2221	4.306	.6807	1.957	3.433	28.91	452.9
#1	94.82	31.62	124.1	2.360	.0165	46.45	.0903	.0629	.0266	-.0316
#2	96.16	30.88	124.9	2.352	.0175	46.99	.0939	.0597	.0223	.0194
#3	96.55	31.14	125.2	2.351	.0161	47.00	.0921	.0637	.0386	-.0047

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	4.629	.0265	27.94	2.475	-.0077	.1883	.3181
Stddev	.007	.0013	.25	.005	.0146	.0061	.0016
%RSD	.1592	4.822	.8853	.2133	188.6	3.219	.5045
#1	4.622	.0278	27.65	2.477	-.0092	.1849	.3168
#2	4.637	.0253	28.08	2.478	.0075	.1953	.3177
#3	4.629	.0263	28.08	2.469	-.0216	.1846	.3199

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	2805.6	8448.4	52201.	2088.5
Stddev	3.0	12.1	169.	.2
%RSD	.10858	.14274	.32417	.01193
#1	2802.7	8438.4	52108.	2088.4
#2	2808.8	8445.0	52099.	2088.3
#3	2805.2	8461.8	52397.	2088.8

Zoom In
Zoom Out

Sample Name: FA23258-33 Acquired: 4/3/2015 17:40:21 Type: Unk
Method: 60102007_042011(v210) Mode: CONC Corr. Factor: 10.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	.0269	27.81	.0088	.3738	-.0002	4030.	-.0005	.0116	.0307	.0319
Stddev	.0134	.42	.0057	.0039	.0006	20.	.0003	.0010	.0036	.0019
%RSD	49.98	1.523	64.72	1.054	252.2	.4871	55.24	8.843	11.65	6.020
#1	.0364	27.39	.0060	.3717	-.0003	4013.	-.0003	.0112	.0331	.0335
#2	.0115	27.80	.0050	.3713	-.0008	4052.	-.0004	.0107	.0326	.0326
#3	.0327	28.24	.0154	.3783	.0004	4027.	-.0008	.0127	.0266	.0298

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	23.15	5.253	68.43	.5990	.0112	42.82	.0282	.0107	.0145	-.0194
Stddev	.17	1.131	.93	.0022	.0011	.50	.0036	.0116	.0218	.0103
%RSD	.7219	21.53	1.364	.3704	10.12	1.161	12.70	108.6	151.2	52.89
#1	22.96	4.350	67.57	.5972	.0124	42.25	.0318	.0223	.0349	-.0276
#2	23.21	6.522	68.29	.5984	.0112	43.07	.0281	-.0010	-.0085	-.0079
#3	23.28	4.887	69.42	.6015	.0101	43.14	.0247	.0108	.0169	-.0227

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	2.638	.0303	28.41	.7415	-.0175	.0556	.0777
Stddev	.009	.0027	.20	.0049	.0079	.0061	.0006
%RSD	.3207	8.757	.6998	.6603	44.88	10.91	.7681
#1	2.645	.0330	28.30	.7377	-.0246	.0623	.0780
#2	2.628	.0303	28.29	.7397	-.0190	.0505	.0771
#3	2.639	.0277	28.64	.7470	-.0090	.0539	.0782

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	2850.0	8488.4	51429.	2096.8
Stddev	27.8	88.7	474.	50.0
%RSD	.97710	1.0454	.92199	2.3849
#1	2818.5	8386.7	51073.	2139.8
#2	2860.1	8528.7	51247.	2108.8
#3	2871.4	8550.0	51967.	2041.9

Zoom In Zoom Out

Sample Name: FA23189-39 Acquired: 4/3/2015 17:44:57 Type: Unk
Method: 60102007_042011(v210) Mode: CONC Corr. Factor: 10.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)
Avg	.0263	34.23	.0265	.5904	.0000	4145.	-.0005	.0170	.0316
Stddev	.0029	.25	.0126	.0086	.001	8.	.0003	.0006	.0022
%RSD	10.96	.7257	47.69	1.463	12090.	.2026	67.10	3.762	6.917
#1	.0250	34.49	.0411	.5949	.0004	4153.	-.0009	.0169	.0314
#2	.0296	33.99	.0188	.5804	.0004	4146.	-.0004	.0177	.0295
#3	.0243	34.21	.0196	.5958	-.0009	4136.	-.0002	.0164	.0338

Elem	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
IS Ref	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)
Avg	.0393	26.87	7.183	78.70	.6418	.0112	55.41	.0357	.0145
Stddev	.0033	.10	.621	.17	.0018	.0018	.26	.0036	.0076
%RSD	8.266	.3802	8.646	.2182	.2742	15.69	.4604	9.980	52.53
#1	.0427	26.84	7.871	78.74	.6425	.0092	55.70	.0364	.0061
#2	.0391	26.98	6.664	78.85	.6431	.0125	55.23	.0318	.0210
#3	.0362	26.78	7.014	78.51	.6398	.0120	55.29	.0388	.0164

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	.0216	-.0056	2.789	.0242	F42.27	.8337	-.0214	.0761	.0944
Stddev	.0218	.0124	.010	.0011	.34	.0039	.0213	.0056	.0006
%RSD	101.3	221.7	.3609	4.519	.7962	.4734	99.39	7.399	.6334
#1	.0349	-.0148	2.800	.0242	42.65	.8381	.0031	.0811	.0938
#2	-.0036	-.0106	2.782	.0252	42.18	.8305	-.0354	.0700	.0943
#3	.0334	.0086	2.783	.0231	41.99	.8325	-.0320	.0771	.0950

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	2722.6	8131.0	50209.	2008.9
Stddev	5.8	28.2	492.	19.8
%RSD	.21268	.34728	.98011	.98669
#1	2716.2	8099.4	49719.	2027.7
#2	2727.6	8153.8	50203.	1988.2
#3	2724.0	8139.8	50704.	2010.9

Zoom In Zoom Out

Sample Name: FA23189-41 Acquired: 4/3/2015 17:49:28 Type: Unk
Method: 60102007_042011(v210) Mode: CONC Corr. Factor: 10.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	.0245	78.89	.0368	.9361	.0006	4469.	.0003	.0322	.0772	.0510
Stddev	.0078	.46	.0106	.0109	.0030	90.	.0004	.0011	.0017	.0024
%RSD	31.64	.5783	28.69	1.162	498.7	2.017	135.5	3.418	2.242	4.670
#1	.0302	78.63	.0253	.9243	.0041	4436.	.0006	.0317	.0757	.0502
#2	.0157	79.42	.0391	.9382	-.0015	4571.	.0004	.0335	.0766	.0491
#3	.0277	78.63	.0461	.9457	-.0007	4400.	-.0001	.0315	.0791	.0537

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	64.41	23.53	131.5	1.299	.0149	81.93	.0667	.0495	.0147	-.0152
Stddev	.35	1.26	1.4	.003	.0015	.61	.0024	.0105	.0056	.0134
%RSD	.5393	5.364	1.080	.2627	10.15	.7495	3.568	21.31	38.24	88.06
#1	64.04	23.81	129.8	1.298	.0166	81.34	.0647	.0373	.0124	-.0134
#2	64.72	22.15	132.5	1.296	.0140	82.57	.0693	.0550	.0105	-.0294
#3	64.48	24.62	132.0	1.303	.0141	81.88	.0661	.0561	.0210	-.0028

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	3.888	.0249	31.25	1.944	-.0245	.1639	.2053
Stddev	.181	.0013	.19	.003	.0114	.0045	.0000
%RSD	4.658	5.212	.6037	.1443	46.70	2.718	.0106
#1	4.097	.0264	31.04	1.946	-.0296	.1596	.2053
#2	3.789	.0244	31.40	1.941	-.0325	.1685	.2053
#3	3.778	.0239	31.32	1.945	-.0114	.1636	.2053

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	2743.9	8290.5	51270.	2062.4
Stddev	8.5	11.6	109.	7.5
%RSD	.31033	.13965	.21281	.36148
#1	2739.9	8280.8	51297.	2068.6
#2	2753.6	8303.3	51150.	2064.5
#3	2738.1	8287.4	51363.	2054.2

Zoom In Zoom Out

Sample Name: MP28754-MB1 Acquired: 4/3/2015 17:54:02 Type: QC
Method: 60102007_042011(v210) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0023	-.0203	.0007	.0005	-.0002	.0264	-.0001	.0000	.0003	.0003
Stddev	.0002	.0313	.0005	.0005	.0003	.0128	.0000	.000	.0002	.0006
%RSD	7.805	154.3	75.70	85.26	196.1	48.64	43.31	856.4	79.50	186.9
#1	.0023	-.0560	.0003	.0011	-.0005	.0406	-.0001	.0001	.0005	.0005
#2	.0021	-.0078	.0005	.0002	.0002	.0228	-.0001	-.0002	.0000	.0008
#3	.0024	.0028	.0013	.0003	-.0002	.0157	.0000	.0000	.0004	-.0003
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0207	-.4045	.0517	.0002	.0000	-.0725	.0007	-.0013	.0017	-.0015
Stddev	.0015	.0673	.0389	.0000	.0001	.0200	.0002	.0015	.0010	.0017
%RSD	7.098	16.65	75.38	12.82	387.4	27.55	30.81	109.1	55.81	117.6
#1	.0212	-.3559	.0903	.0002	.0000	-.0536	.0005	-.0002	.0028	-.0030
#2	.0190	-.4814	.0124	.0003	.0001	-.0935	.0006	-.0030	.0014	.0004
#3	.0218	-.3762	.0523	.0002	-.0001	-.0705	.0009	-.0008	.0010	-.0018
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0146	.0241	-.0002	.0007	-.0007	-.0001	.0027
Stddev	.0002	.0003	.0002	.0000	.0013	.0005	.0000
%RSD	1.047	1.202	124.9	5.822	202.0	426.3	.6994
#1	.0148	.0239	-.0001	.0006	-.0013	-.0007	.0027
#2	.0145	.0244	.0000	.0007	.0009	.0003	.0028
#3	.0146	.0239	-.0004	.0007	-.0016	.0000	.0027
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Zoom In Zoom Out

Sample Name: MP28754-MB1 Acquired: 4/3/2015 17:54:02 Type: QC
Method: 60102007_042011(v210) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3157.4	8851.6	55415.	2134.0
Stddev	5.4	11.6	268.	30.7
%RSD	.17092	.13138	.48323	1.4364
#1	3154.7	8853.4	55210.	2106.5
#2	3153.9	8839.2	55316.	2128.5
#3	3163.6	8862.2	55718.	2167.0

Zoom In Zoom Out

Sample Name: CCV Acquired: 4/3/2015 17:58:30 Type: QC
Method: 60102007_042011(v210) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2639	41.11	2.154	2.024	1.987	40.77	2.164	2.104	F2.216
Stddev	.0007	.11	.005	.008	.008	.21	.002	.003	.008
%RSD	.2509	.2574	.2307	.3867	.3874	.5252	.0910	.1527	.3530
#1	.2634	41.23	2.159	2.031	1.995	41.02	2.165	2.108	2.214
#2	.2647	41.07	2.149	2.016	1.985	40.64	2.164	2.103	2.225
#3	.2638	41.03	2.154	2.024	1.980	40.66	2.161	2.101	2.209
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
Value									2.000
Range									10.00%

Elem	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.098	41.50	42.81	42.02	2.176	2.059	39.98	2.122	F2.205
Stddev	.003	.28	.34	.23	.017	.001	.15	.002	.005
%RSD	.1509	.6663	.7961	.5570	.7849	.0371	.3672	.1043	.2439
#1	2.097	41.79	43.19	42.27	2.192	2.058	40.15	2.124	2.202
#2	2.101	41.46	42.69	41.96	2.180	2.058	39.90	2.121	2.202
#3	2.095	41.24	42.55	41.81	2.158	2.060	39.89	2.120	2.211
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
Value									2.000
Range									10.00%

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.067	2.185	2.125	2.167	2.051	2.141	2.122	2.151	F2.252
Stddev	.002	.007	.003	.002	.008	.005	.008	.006	.002
%RSD	.0937	.3020	.1552	.1026	.3752	.2442	.3612	.2824	.0798
#1	2.069	2.192	2.128	2.169	2.059	2.142	2.113	2.147	2.254
#2	2.068	2.183	2.124	2.165	2.044	2.146	2.127	2.158	2.250
#3	2.065	2.179	2.122	2.165	2.049	2.136	2.127	2.148	2.251
Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
Value									2.000
Range									10.00%

Zoom In Zoom Out

Sample Name: CCV Acquired: 4/3/2015 17:58:30 Type: QC
Method: 60102007_042011(v210) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2698.9	8166.0	51447.	2063.9
Stddev	18.8	35.3	337.	16.9
%RSD	.69697	.43254	.65483	.82023
#1	2717.6	8195.5	51273.	2044.4
#2	2699.3	8175.6	51233.	2072.5
#3	2680.0	8126.8	51835.	2074.8

Zoom In Zoom Out

Sample Name: CCB Acquired: 4/3/2015 18:03:00 Type: QC
Method: 60102007_042011(v210) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F.0028	.0216	.0012	.0008	.0000	-.0028	.0000	.0002
Stddev	.0002	.0024	.0007	.0004	.0002	.0053	.0000	.0001
%RSD	8.548	11.13	56.97	46.21	690.1	188.7	1424.	59.54
#1	.0029	.0192	.0018	.0009	-.0002	-.0010	.0000	.0003
#2	.0030	.0216	.0004	.0004	.0002	-.0088	.0000	.0001
#3	.0025	.0240	.0014	.0011	.0001	.0014	.0000	.0001
Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	.0010							
Low Limit	-.0010							

Elem	Cr2677	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0003	.0001	.0179	-.4530	.0490	.0004	F.0025	-.0821
Stddev	.0004	.0004	.0086	.0958	.0134	.0001	.0004	.0224
%RSD	125.8	682.8	48.04	21.15	27.27	33.03	17.73	27.29
#1	-.0001	.0005	.0258	-.4109	.0612	.0005	.0029	-.1055
#2	-.0001	-.0002	.0191	-.3854	.0510	.0003	.0024	-.0608
#3	-.0007	-.0001	.0087	-.5626	.0348	.0002	.0021	-.0801
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit							.0010	
Low Limit							-.0010	

Elem	Ni2316	Pb2203	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0006	-.0009	.0014	F-.0022	.0004	.0007	.0003	.0012
Stddev	.0002	.0002	.0006	.0008	.0003	.0002	.0002	.0003
%RSD	32.03	22.63	45.31	36.99	79.39	22.43	50.53	24.30
#1	.0006	-.0012	.0016	-.0031	.0004	.0008	.0005	.0015
#2	.0007	-.0007	.0019	-.0016	.0001	.0008	.0002	.0013
#3	.0004	-.0010	.0007	-.0020	.0007	.0005	.0002	.0009
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	None	Chk Pass	Chk Pass	Chk Pass
High Limit				.0020				
Low Limit				-.0020				

Zoom In Zoom Out

Sample Name: CCB Acquired: 4/3/2015 18:03:00 Type: QC
Method: 60102007_042011(v210) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm
Avg	-.0008	.0001	.0002
Stddev	.0004	.0005	.0000
%RSD	46.85	347.7	13.16
#1	-.0006	.0003	.0002
#2	-.0006	.0005	.0002
#3	-.0013	-.0004	.0002
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3080.9	8601.6	53971.	2081.6
Stddev	10.6	16.4	130.	24.8
%RSD	.34548	.19031	.24145	1.1905
#1	3076.9	8584.0	53842.	2071.1
#2	3072.8	8616.3	54103.	2109.9
#3	3093.0	8604.4	53968.	2063.9

Zoom In
Zoom Out

Sample Name: MP28754-B1 Acquired: 4/3/2015 18:07:29 Type: QC
Method: 60102007_042011(v210) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0525	27.78	2.124	2.060	.0510	25.75	.0531	.5236	.2256	.2678
Stddev	.0008	.10	.009	.005	.0004	.04	.0001	.0006	.0018	.0020
%RSD	1.437	.3433	.4251	.2590	.8532	.1542	.1522	.1074	.8068	.7308
#1	.0517	27.67	2.131	2.054	.0510	25.71	.0530	.5240	.2272	.2699
#2	.0532	27.85	2.127	2.064	.0514	25.73	.0532	.5237	.2259	.2672
#3	.0524	27.83	2.114	2.061	.0505	25.79	.0531	.5230	.2236	.2661
Check ?	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass
Value										
Range										

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	26.84	26.50	26.37	.5491	.5047	25.36	.5382	.5418	.5052	2.150
Stddev	.08	.11	.07	.0012	.0009	.06	.0010	.0018	.0011	.005
%RSD	.2930	.4097	.2543	.2181	.1824	.2247	.1776	.3236	.2124	.2311
#1	26.75	26.47	26.44	.5504	.5053	25.31	.5376	.5400	.5063	2.155
#2	26.88	26.62	26.38	.5487	.5052	25.42	.5393	.5435	.5050	2.152
#3	26.90	26.41	26.30	.5481	.5037	25.36	.5376	.5420	.5042	2.145
Check ?	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass
Value										
Range										

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0207	.5735	.5112	.5268	2.102	.5246	.5622
Stddev	.0015	.0011	.0023	.0019	.004	.0032	.0006
%RSD	7.073	.1983	.4406	.3547	.1963	.6122	.1078
#1	.0201	.5739	.5100	.5289	2.099	.5281	.5628
#2	.0223	.5744	.5138	.5263	2.107	.5237	.5624
#3	.0195	.5722	.5099	.5253	2.100	.5219	.5616
Check ?	None	Chk	Pass	None	None	Chk	Pass
Value							
Range							

Zoom In
Zoom Out

Sample Name: MP28754-B1 Acquired: 4/3/2015 18:07:29 Type: QC
Method: 60102007_042011(v210) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2846.5	8471.3	53214.	2072.1
Stddev	13.1	47.7	493.	9.6
%RSD	.46064	.56297	.92602	.46532
#1	2836.6	8425.4	52735.	2082.9
#2	2841.5	8468.0	53720.	2068.8
#3	2861.3	8520.6	53189.	2064.5

Zoom In
Zoom Out

Sample Name: FA23243-19 Acquired: 4/3/2015 18:11:52 Type: Unk
Method: 60102007_042011(v210) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	-.0019	80.49	.0469	.4820	.0050	327.3	.0008	.0089	.1377	.0511
Stddev	.0001	.29	.0004	.0021	.0001	9.3	.0000	.0000	.0003	.0004
%RSD	7.232	.3598	.9492	.4385	2.781	2.840	4.103	.3394	.2367	.8470
#1	-.0018	80.77	.0470	.4840	.0049	338.0	.0009	.0089	.1376	.0511
#2	-.0020	80.51	.0472	.4822	.0052	321.6	.0008	.0089	.1381	.0515
#3	-.0020	80.20	.0464	.4798	.0050	322.2	.0008	.0088	.1375	.0506

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	36.79	1.791	106.8	.3200	.0018	1.534	.0407	.1552	-.0007	.0044
Stddev	.12	.018	.3	.0004	.0002	.012	.0001	.0013	.0010	.0016
%RSD	.3161	.9807	.2731	.1126	11.57	.7937	.3625	.8463	138.3	36.10
#1	36.91	1.811	107.1	.3200	.0017	1.547	.0408	.1567	-.0004	.0028
#2	36.79	1.779	106.8	.3197	.0020	1.525	.0406	.1541	.0001	.0059
#3	36.67	1.782	106.5	.3204	.0016	1.528	.0409	.1550	-.0018	.0045

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	2.647	.0147	1.584	.0950	-.0093	.0867	.0544
Stddev	.004	.0002	.006	.0005	.0019	.0004	.0002
%RSD	.1591	1.699	.3920	.5127	20.84	.4672	.2930
#1	2.651	.0145	1.587	.0955	-.0088	.0871	.0543
#2	2.645	.0146	1.588	.0946	-.0076	.0868	.0545
#3	2.643	.0149	1.577	.0949	-.0114	.0863	.0545

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	2598.8	14055.	87112.	3534.2
Stddev	12.9	17.	21.	30.7
%RSD	.49769	.11848	.02382	.86901
#1	2612.7	14074.	87090.	3505.9
#2	2596.7	14046.	87116.	3566.8
#3	2587.1	14046.	87130.	3529.8

Zoom In
Zoom Out

Sample Name: MP28754-D1 Acquired: 4/3/2015 18:16:25 Type: Unk
Method: 60102007_042011(v210) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	-.0018	88.29	.0489	.5035	.0050	464.1	.0010	.0100	.1537	.0571
Stddev	.0002	.19	.0003	.0009	.0001	.9	.0001	.0001	.0003	.0002
%RSD	11.75	.2109	.6493	.1746	1.422	.1832	5.150	.9045	.1645	.4048
#1	-.0017	88.50	.0489	.5045	.0050	465.1	.0010	.0101	.1539	.0572
#2	-.0016	88.15	.0492	.5034	.0049	463.6	.0010	.0099	.1537	.0568
#3	-.0020	88.22	.0486	.5027	.0050	463.6	.0011	.0100	.1534	.0572

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	40.73	2.137	130.5	.4042	.0018	1.889	.0473	.1618	-.0008	.0050
Stddev	.11	.028	.5	.0009	.0001	.005	.0002	.0026	.0007	.0010
%RSD	.2666	1.319	.3596	.2198	6.387	.2849	.3848	1.581	81.78	20.63
#1	40.85	2.111	130.9	.4048	.0017	1.895	.0475	.1640	-.0015	.0059
#2	40.63	2.167	130.0	.4045	.0019	1.884	.0474	.1623	-.0008	.0039
#3	40.71	2.134	130.4	.4031	.0017	1.889	.0471	.1590	-.0001	.0053

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	2.910	.0145	1.705	.1084	-.0075	.1050	.0624
Stddev	.002	.0003	.002	.0002	.0014	.0004	.0001
%RSD	.0675	2.230	.1245	.2109	18.11	.3538	.2202
#1	2.910	.0146	1.707	.1086	-.0060	.1049	.0625
#2	2.908	.0142	1.704	.1085	-.0086	.1054	.0623
#3	2.912	.0149	1.703	.1082	-.0080	.1046	.0625

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	2549.6	13962.	86605.	3506.8
Stddev	5.9	15.	674.	28.9
%RSD	.23057	.11090	.77820	.82485
#1	2543.7	13946.	86462.	3505.8
#2	2555.4	13976.	86014.	3536.2
#3	2549.8	13965.	87339.	3478.4

Zoom In
Zoom Out

Sample Name: MP28754-SD1 Acquired: 4/3/2015 18:20:57 Type: Unk
Method: 60102007_042011(v210) Mode: CONC Corr. Factor: 5.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	.0049	129.2	.0764	.7765	.0071	547.0	.0010	.0147	.2243	.0976
Stddev	.0032	.3	.0012	.0055	.0010	1.4	.0002	.0005	.0013	.0020
%RSD	64.45	.2080	1.578	.7123	13.80	.2491	15.23	3.233	.5662	2.101
#1	.0051	129.5	.0751	.7814	.0082	547.9	.0009	.0143	.2254	.0977
#2	.0080	129.0	.0768	.7774	.0062	547.7	.0011	.0152	.2229	.0995
#3	.0017	129.2	.0774	.7705	.0070	545.5	.0012	.0145	.2246	.0954

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	60.21	1.766	176.6	.5264	.0027	3.033	.0701	.1405	-.0045	.0063
Stddev	.04	.110	.4	.0012	.0007	.015	.0006	.0042	.0075	.0086
%RSD	.0684	6.224	.2178	.2323	25.82	.4791	.9071	2.968	168.6	136.6
#1	60.26	1.707	176.4	.5263	.0033	3.016	.0701	.1435	.0021	.0163
#2	60.18	1.893	176.3	.5252	.0027	3.039	.0707	.1422	-.0028	.0021
#3	60.19	1.698	177.0	.5277	.0020	3.043	.0694	.1357	-.0126	.0006

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	4.244	.0266	2.545	.1576	-.0180	.1359	.1084
Stddev	.013	.0012	.007	.0007	.0039	.0011	.0008
%RSD	.2968	4.596	.2730	.4543	21.68	.8134	.7628
#1	4.258	.0279	2.551	.1576	-.0149	.1350	.1089
#2	4.234	.0256	2.537	.1569	-.0224	.1356	.1089
#3	4.239	.0261	2.547	.1583	-.0166	.1372	.1075

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	2836.5	9804.2	60601.	2391.3
Stddev	10.5	35.8	350.	12.7
%RSD	.37138	.36523	.57706	.53214
#1	2824.7	9770.3	60978.	2381.2
#2	2839.6	9800.7	60287.	2387.0
#3	2845.1	9841.7	60538.	2405.6

Zoom In
Zoom Out

Sample Name: MP28754-PS1 Acquired: 4/3/2015 18:25:22 Type: Unk
Method: 60102007_042011(v210) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	.0306	80.35	.1132	.6300	.0357	317.4	.0319	.0389	.1686	.1145
Stddev	.0006	.22	.0009	.0020	.0003	1.7	.0001	.0001	.0003	.0005
%RSD	1.918	.2690	.7565	.3172	.8075	.5227	.2805	.2394	.1806	.4800
#1	.0313	80.39	.1123	.6319	.0360	319.2	.0318	.0389	.1686	.1151
#2	.0301	80.54	.1133	.6301	.0358	316.1	.0319	.0388	.1689	.1144
#3	.0305	80.12	.1140	.6279	.0354	316.8	.0320	.0390	.1683	.1141

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	37.71	8.675	107.1	.3471	.0615	8.253	.1018	.2071	.0607	.0686
Stddev	.08	.036	.5	.0004	.0002	.047	.0002	.0008	.0009	.0005
%RSD	.2227	.4182	.4732	.1061	.3888	.5692	.2244	.4030	1.515	.7472
#1	37.71	8.688	107.4	.3467	.0612	8.307	.1018	.2062	.0606	.0680
#2	37.80	8.704	107.4	.3474	.0615	8.226	.1016	.2072	.0599	.0689
#3	37.63	8.635	106.5	.3471	.0617	8.225	.1020	.2078	.0617	.0688

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	2.636	.0452	1.579	.1557	.0975	.1162	.2163
Stddev	.004	.0002	.007	.0002	.0007	.0006	.0005
%RSD	.1393	.3790	.4510	.1427	.7528	.4844	.2184
#1	2.631	.0450	1.580	.1554	.0974	.1167	.2162
#2	2.637	.0453	1.585	.1558	.0968	.1163	.2160
#3	2.638	.0454	1.571	.1558	.0982	.1156	.2169

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	2624.1	14084.	87445.	3590.6
Stddev	11.6	45.	315.	32.0
%RSD	.44192	.31783	.36064	.89051
#1	2629.0	14088.	87082.	3557.5
#2	2632.5	14126.	87599.	3621.4
#3	2610.9	14037.	87653.	3593.0

Zoom In
Zoom Out

Sample Name: MP28754-S1 Acquired: 4/3/2015 18:29:53 Type: Unk
Method: 60102007_042011(v210) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	.0297	122.8	1.331	1.713	.0354	408.7	.0313	.3083	.3179	.2156
Stddev	.0006	.2	.004	.005	.0001	.7	.0001	.0001	.0008	.0005
%RSD	1.866	.1455	.2621	.2724	.3583	.1655	.2790	.0469	.2635	.2100
#1	.0301	122.9	1.335	1.718	.0352	409.4	.0313	.3083	.3183	.2151
#2	.0298	122.8	1.330	1.713	.0354	408.1	.0314	.3085	.3185	.2161
#3	.0291	122.6	1.329	1.709	.0354	408.7	.0312	.3083	.3169	.2156

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	64.79	19.79	138.6	.7128	.2663	18.08	.3544	.6814	.1126	1.300
Stddev	.02	.06	.4	.0015	.0003	.04	.0003	.0019	.0011	.003
%RSD	.0378	.3149	.2652	.2117	.1016	.2097	.0825	.2746	.9663	.1896
#1	64.82	19.86	138.2	.7141	.2666	18.12	.3544	.6829	.1114	1.302
#2	64.77	19.78	138.5	.7130	.2664	18.04	.3546	.6793	.1132	1.297
#3	64.79	19.74	138.9	.7112	.2660	18.07	.3541	.6819	.1133	1.300

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	2.990	.3200	1.852	.2884	1.993	.4231	.3881
Stddev	.002	.0010	.006	.0004	.003	.0002	.0001
%RSD	.0701	.2977	.3199	.1500	.1381	.0573	.0281
#1	2.987	.3209	1.856	.2886	1.995	.4229	.3881
#2	2.990	.3190	1.854	.2887	1.990	.4234	.3882
#3	2.992	.3200	1.845	.2879	1.995	.4231	.3880

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	2569.6	13334.	83055.	3367.6
Stddev	5.6	36.	647.	8.1
%RSD	.21925	.26879	.77955	.24143
#1	2575.6	13364.	82359.	3376.4
#2	2564.5	13294.	83164.	3366.1
#3	2568.7	13343.	83640.	3360.3

Zoom In
Zoom Out

Sample Name: MP28754-S2 Acquired: 4/3/2015 18:34:24 Type: Unk
Method: 60102007_042011(v210) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	.0293	116.0	1.292	1.706	.0350	308.7	.0307	.3042	.2985	.2053
Stddev	.0003	.3	.000	.004	.0002	4.0	.0001	.0002	.0011	.0008
%RSD	.9975	.2222	.0102	.2519	.4362	1.294	.4662	.0671	.3695	.3978
#1	.0291	115.7	1.292	1.701	.0348	312.7	.0309	.3043	.2981	.2061
#2	.0296	116.3	1.293	1.707	.0351	308.7	.0306	.3039	.2977	.2045
#3	.0291	115.9	1.292	1.709	.0350	304.7	.0307	.3043	.2997	.2054

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	60.93	18.75	111.4	.6281	.2541	17.08	.3454	.6854	.1016	1.263
Stddev	.22	.05	.5	.0008	.0003	.06	.0005	.0035	.0003	.001
%RSD	.3590	.2495	.4215	.1337	.1248	.3401	.1315	.5083	.3158	.1019
#1	60.70	18.72	111.0	.6272	.2544	17.02	.3448	.6828	.1013	1.264
#2	61.13	18.80	111.9	.6281	.2540	17.07	.3456	.6840	.1019	1.262
#3	60.96	18.73	111.4	.6289	.2538	17.14	.3457	.6893	.1015	1.263

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	2.778	.3142	1.797	.2241	1.992	.3957	.3794
Stddev	.003	.0001	.004	.0003	.007	.0014	.0002
%RSD	.1075	.0251	.1974	.1228	.3620	.3587	.0462
#1	2.781	.3143	1.793	.2241	1.990	.3946	.3795
#2	2.776	.3142	1.800	.2239	1.986	.3952	.3792
#3	2.776	.3141	1.798	.2244	2.000	.3973	.3795

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	2610.0	13678.	84678.	3405.6
Stddev	3.9	19.	94.	34.7
%RSD	.15000	.13832	.11109	1.0188
#1	2612.0	13658.	84570.	3371.1
#2	2612.5	13696.	84737.	3440.5
#3	2605.5	13681.	84729.	3405.0

Zoom In Zoom Out

Sample Name: FA23243-20 Acquired: 4/3/2015 18:38:56 Type: Unk
Method: 60102007_042011(v210) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	-.0005	57.41	.0387	.4618	.0043	64.58	.0007	.0062	.1141	.3622
Stddev	.0001	.27	.0004	.0015	.0002	.26	.0000	.0001	.0002	.0009
%RSD	13.63	.4638	.9901	.3164	4.051	.4083	5.993	1.319	.1794	.2440
#1	-.0006	57.16	.0387	.4608	.0042	64.28	.0007	.0063	.1139	.3618
#2	-.0005	57.69	.0392	.4635	.0045	64.68	.0007	.0062	.1143	.3632
#3	-.0005	57.40	.0384	.4612	.0042	64.78	.0007	.0061	.1141	.3616

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	26.46	.6272	20.38	.4311	.0007	.2749	.0264	.2042	-.0020	.0018
Stddev	.12	.0630	.08	.0006	.0002	.0073	.0001	.0011	.0010	.0007
%RSD	.4677	10.05	.4108	.1434	21.18	2.654	.2982	.5266	50.10	35.73
#1	26.32	.6629	20.29	.4313	.0007	.2833	.0265	.2041	-.0031	.0013
#2	26.55	.6644	20.40	.4304	.0006	.2716	.0264	.2032	-.0013	.0017
#3	26.52	.5544	20.45	.4316	.0009	.2698	.0265	.2054	-.0014	.0025

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	2.024	.0161	1.075	.0674	-.0065	.0407	.0685
Stddev	.001	.0001	.005	.0005	.0013	.0001	.0002
%RSD	.0641	.4787	.4818	.7414	19.93	.2820	.2218
#1	2.022	.0160	1.072	.0675	-.0051	.0406	.0687
#2	2.025	.0160	1.081	.0668	-.0077	.0408	.0684
#3	2.024	.0161	1.073	.0678	-.0067	.0407	.0685

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	2904.7	13409.	82938.	3267.4
Stddev	15.4	46.	238.	9.4
%RSD	.53164	.34039	.28685	.28678
#1	2899.1	13393.	82664.	3260.5
#2	2922.1	13461.	83071.	3263.7
#3	2892.8	13374.	83081.	3278.1

Zoom In Zoom Out

Sample Name: FA23243-21 Acquired: 4/3/2015 18:43:20 Type: Unk
Method: 60102007_042011(v210) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)
Avg	-.0024	117.4	.0542	.5962	.0051	476.2	.0009	.0132
Stddev	.0003	.3	.0006	.0018	.0001	7.8	.0000	.0001
%RSD	12.69	.2881	1.073	.3090	2.717	1.630	3.410	.5770
#1	-.0021	117.4	.0549	.5969	.0051	472.3	.0010	.0132
#2	-.0027	117.1	.0540	.5941	.0052	471.1	.0009	.0131
#3	-.0025	117.8	.0537	.5976	.0049	485.1	.0009	.0131

Elem	Cr2677	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)
Avg	.2260	.0218	57.81	2.832	141.9	.4122	.0020	2.625
Stddev	.0002	.0005	.27	.050	.4	.0005	.0000	.018
%RSD	.0768	2.153	.4720	1.776	.2862	.1294	2.341	.6716
#1	.2262	.0215	57.87	2.776	142.1	.4128	.0020	2.644
#2	.2259	.0216	57.51	2.871	141.5	.4118	.0020	2.609
#3	.2259	.0223	58.04	2.850	142.2	.4120	.0019	2.622

Elem	Ni2316	Pb2203	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)
Avg	.0603	.2058	.0007	.0057	2.619	.0139	1.895	.2885
Stddev	.0002	.0005	.0011	.0010	.003	.0002	.004	.0003
%RSD	.3744	.2662	156.8	18.33	.1043	1.399	.2270	.1029
#1	.0600	.2060	.0019	.0065	2.618	.0137	1.892	.2887
#2	.0604	.2062	.0002	.0060	2.621	.0141	1.892	.2885
#3	.0603	.2052	-.0001	.0045	2.616	.0139	1.900	.2882

Elem	Tl1908	V_2924	Zn2062
IS Ref	(In2306)	(Y_3600)	(Y_2243)
Avg	F-.0107	.1441	.1056
Stddev	.0000	.0005	.0001
%RSD	.0190	.3594	.0696
#1	-.0107	.1444	.1056
#2	-.0107	.1435	.1057
#3	-.0107	.1443	.1055

Zoom In Zoom Out

Sample Name: FA23243-21 Acquired: 4/3/2015 18:43:20 Type: Unk
Method: 60102007_042011(v210) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	2551.0	15091.	93136.	3773.1
Stddev	2.7	51.	538.	9.8
%RSD	.10667	.33798	.57740	.25969
#1	2551.0	15140.	92531.	3766.6
#2	2553.7	15095.	93560.	3768.3
#3	2548.2	15038.	93318.	3784.3

Zoom In Zoom Out

Sample Name: FA23243-22 Acquired: 4/3/2015 18:47:54 Type: Unk
Method: 60102007_042011(v210) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)
Avg	-.0022	105.5	.0554	.5306	.0045	F530.9	.0008	.0119	.2066
Stddev	.0005	.2	.0012	.0010	.0000	4.9	.0000	.0001	.0004
%RSD	23.07	.1912	2.098	.1889	.9485	.9173	5.795	.4289	.2115
#1	-.0019	105.7	.0541	.5317	.0045	527.1	.0007	.0120	.2070
#2	-.0028	105.3	.0564	.5299	.0045	536.4	.0008	.0119	.2065
#3	-.0020	105.5	.0556	.5301	.0046	529.3	.0008	.0119	.2062

Elem	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
IS Ref	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)
Avg	.0101	52.60	2.539	142.9	.4349	.0018	2.638	.0541	.1656
Stddev	.0000	.03	.015	.3	.0009	.0001	.013	.0000	.0021
%RSD	.3915	.0640	.5912	.1926	.2182	6.300	.5058	.0477	1.258
#1	.0101	52.59	2.538	143.2	.4355	.0019	2.624	.0541	.1675
#2	.0101	52.57	2.554	142.9	.4354	.0017	2.641	.0541	.1659
#3	.0102	52.64	2.524	142.6	.4338	.0017	2.650	.0541	.1634

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	-.0009	.0062	2.687	.0142	1.666	.2853	-.0092	.1355	.0778
Stddev	.0006	.0016	.005	.0003	.003	.0005	.0012	.0004	.0000
%RSD	61.24	25.84	.1851	2.294	.1898	.1866	12.69	.3186	.0386
#1	-.0005	.0046	2.684	.0141	1.670	.2854	-.0104	.1360	.0778
#2	-.0015	.0061	2.693	.0139	1.665	.2858	-.0091	.1354	.0778
#3	-.0008	.0078	2.685	.0145	1.664	.2847	-.0081	.1351	.0778

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	2512.0	14134.	87378.	3519.5
Stddev	3.7	6.	826.	29.5
%RSD	.14736	.04191	.94500	.83792
#1	2511.0	14133.	87985.	3485.7
#2	2508.8	14129.	86438.	3533.3
#3	2516.1	14141.	87712.	3539.6

Zoom In Zoom Out

Sample Name: CCV Acquired: 4/3/2015 18:52:26 Type: QC
Method: 60102007_042011(v210) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2621	41.14	2.089	2.039	2.001	41.10	2.109	2.069	2.182
Stddev	.0008	.59	.006	.027	.020	.56	.004	.003	.005
%RSD	.3158	1.434	.2716	1.311	.9785	1.372	.1895	.1441	.2252
#1	.2620	41.81	2.096	2.068	2.022	41.74	2.111	2.071	2.188
#2	.2613	40.87	2.086	2.035	1.996	40.90	2.111	2.071	2.180
#3	.2629	40.73	2.086	2.015	1.984	40.67	2.105	2.066	2.178
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value									
Range									

Elem	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.090	41.10	43.01	42.03	2.122	2.024	40.40	2.105	F2.225
Stddev	.002	.48	.65	.48	.026	.001	.64	.002	.001
%RSD	.1092	1.162	1.512	1.138	1.247	.0500	1.586	.0771	.0348
#1	2.088	41.65	43.76	42.58	2.153	2.025	41.12	2.105	2.225
#2	2.092	40.86	42.68	41.77	2.109	2.025	40.20	2.106	2.226
#3	2.091	40.79	42.59	41.74	2.105	2.023	39.89	2.103	2.224
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
Value									2.000
Range									10.00%

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.010	2.126	2.071	2.137	2.073	2.097	2.150	2.153	F2.230
Stddev	.004	.005	.004	.004	.024	.004	.006	.001	.003
%RSD	.1720	.2298	.2009	.1692	1.159	.2120	.2936	.0670	.1145
#1	2.012	2.131	2.076	2.140	2.099	2.102	2.151	2.154	2.232
#2	2.012	2.126	2.069	2.137	2.069	2.093	2.155	2.154	2.232
#3	2.006	2.121	2.068	2.133	2.051	2.095	2.143	2.152	2.227
Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
Value									2.000
Range									10.00%

Zoom In Zoom Out

Sample Name: CCV Acquired: 4/3/2015 18:52:26 Type: QC
Method: 60102007_042011(v210) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2664.2	8198.3	51539.	2011.0
Stddev	5.8	13.6	166.	57.4
%RSD	.21683	.16562	.32262	2.8531
#1	2670.8	8214.0	51669.	1946.7
#2	2660.3	8190.6	51352.	2057.1
#3	2661.5	8190.3	51597.	2029.1

Zoom In Zoom Out

Sample Name: CCB Acquired: 4/3/2015 18:56:55 Type: QC
Method: 60102007_042011(v210) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F.0026	-.0049	.0019	.0005	.0002	-.0033	.0001	.0001
Stddev	.0006	.0218	.0008	.0005	.0002	.0054	.0000	.0000
%RSD	24.42	441.4	42.54	95.00	71.79	162.2	18.37	33.19
#1	.0031	.0117	.0025	.0002	.0003	-.0032	.0001	.0001
#2	.0028	.0031	.0021	.0003	.0000	.0020	.0001	.0001
#3	.0019	-.0296	.0010	.0010	.0003	-.0088	.0001	.0001
Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	.0010							
Low Limit	-.0010							

Elem	Cr2677	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0003	-.0001	.0195	-.4458	.0399	.0003	F.0026	-.0959
Stddev	.0003	.0002	.0035	.0940	.0052	.0001	.0003	.0121
%RSD	97.68	243.7	17.66	21.07	12.99	23.97	11.15	12.60
#1	-.0006	.0001	.0232	-.5497	.0404	.0003	.0030	-.1099
#2	.0000	-.0003	.0191	-.3668	.0344	.0003	.0025	-.0884
#3	-.0004	-.0001	.0163	-.4210	.0447	.0002	.0024	-.0895
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit							.0010	
Low Limit							-.0010	

Elem	Ni2316	Pb2203	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0006	-.0007	.0012	F-.0044	.0006	.0009	.0003	.0010
Stddev	.0005	.0005	.0017	.0011	.0003	.0001	.0002	.0001
%RSD	81.03	76.21	141.0	24.62	54.28	11.20	51.09	9.318
#1	.0011	-.0009	-.0007	-.0038	.0009	.0008	.0004	.0010
#2	.0005	-.0001	.0017	-.0038	.0002	.0010	.0004	.0011
#3	.0001	-.0011	.0027	-.0056	.0007	.0009	.0001	.0009
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	None	Chk Pass	Chk Pass	Chk Pass
High Limit				.0020				
Low Limit				-.0020				

Zoom In Zoom Out

Sample Name: CCB Acquired: 4/3/2015 18:56:55 Type: QC
Method: 60102007_042011(v210) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm
Avg	-.0005	.0004	.0002
Stddev	.0020	.0005	.0000
%RSD	373.4	144.6	13.00
#1	.0003	.0005	.0002
#2	.0009	.0009	.0002
#3	-.0028	-.0002	.0003
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3036.3	8615.3	53990.	2030.7
Stddev	6.5	12.0	140.	30.5
%RSD	.21361	.13889	.25994	1.4999
#1	3035.8	8601.7	54111.	1998.4
#2	3043.0	8624.3	53836.	2034.6
#3	3030.1	8619.9	54023.	2059.0

Zoom In
Zoom Out

Sample Name: FA23243-23 Acquired: 4/3/2015 19:01:23 Type: Unk
Method: 60102007_042011(v210) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)
Avg	-.0020	106.0	.1219	.4856	.0045	F632.1	.0019	.0163	.2377
Stddev	.0001	.3	.0008	.0034	.0001	10.5	.0000	.0001	.0010
%RSD	4.252	.2667	.6813	.7073	2.361	1.667	.9918	.5838	.4007
#1	-.0020	106.0	.1221	.4857	.0046	643.2	.0019	.0164	.2366
#2	-.0020	106.3	.1226	.4889	.0044	630.7	.0018	.0162	.2383
#3	-.0021	105.8	.1210	.4821	.0045	622.2	.0019	.0163	.2382

Elem	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
IS Ref	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)
Avg	.1587	62.76	4.660	221.7	.6811	.0104	4.049	.0798	.1868
Stddev	.0002	.14	.050	.8	.0011	.0001	.047	.0002	.0020
%RSD	.1077	.2221	1.081	.3446	.1572	1.057	1.155	.1934	1.082
#1	.1589	62.76	4.609	221.2	.6800	.0104	4.014	.0799	.1887
#2	.1585	62.90	4.662	222.5	.6809	.0103	4.102	.0796	.1872
#3	.1587	62.62	4.710	221.2	.6822	.0105	4.030	.0797	.1847

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	.0017	.0064	3.069	.0138	1.934	.3175	-.0082	.2545	.2086
Stddev	.0004	.0024	.005	.0003	.007	.0004	.0031	.0013	.0002
%RSD	25.77	37.81	.1554	2.179	.3801	.1225	37.26	.5269	.0799
#1	.0021	.0058	3.073	.0138	1.933	.3170	-.0111	.2529	.2088
#2	.0017	.0043	3.064	.0141	1.942	.3176	-.0084	.2552	.2086
#3	.0012	.0090	3.069	.0135	1.928	.3178	-.0050	.2552	.2085

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	2451.4	14695.	90478.	3640.9
Stddev	9.2	29.	963.	4.1
%RSD	.37590	.19934	1.0640	.11186
#1	2450.9	14718.	91586.	3637.6
#2	2442.5	14662.	90002.	3639.8
#3	2460.9	14705.	89845.	3645.5

Zoom In
Zoom Out

Sample Name: FA23243-24 Acquired: 4/3/2015 19:05:55 Type: Unk
Method: 60102007_042011(v210) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	-.0020	101.9	.0709	.5003	.0042	493.8	.0014	.0113	.2178	.1990
Stddev	.0006	.1	.0001	.0017	.0002	7.8	.0000	.0000	.0005	.0006
%RSD	28.74	.0863	.1940	.3308	3.612	1.586	3.147	.3208	.2248	.2784
#1	-.0025	101.8	.0708	.4985	.0042	485.9	.0014	.0112	.2184	.1991
#2	-.0014	102.0	.0708	.5017	.0044	501.6	.0014	.0113	.2176	.1994
#3	-.0019	102.0	.0710	.5006	.0041	493.8	.0014	.0113	.2175	.1984

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	55.48	3.169	152.1	.5978	.0095	2.904	.0530	.1757	.0003	.0036
Stddev	.15	.043	.3	.0009	.0000	.032	.0003	.0008	.0005	.0020
%RSD	.2647	1.348	.2092	.1571	.2721	1.104	.6094	.4424	182.1	55.12
#1	55.52	3.208	152.3	.5974	.0095	2.868	.0533	.1763	.0000	.0051
#2	55.60	3.124	152.2	.5971	.0095	2.913	.0527	.1748	.0000	.0043
#3	55.31	3.176	151.7	.5988	.0095	2.931	.0529	.1760	.0009	.0013

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	2.968	.0146	1.871	.2790	-.0093	.1699	.1446
Stddev	.002	.0002	.005	.0003	.0016	.0003	.0000
%RSD	.0710	1.196	.2603	.0953	16.83	.1864	.0114
#1	2.965	.0147	1.865	.2787	-.0075	.1699	.1446
#2	2.968	.0147	1.874	.2792	-.0100	.1703	.1446
#3	2.970	.0144	1.873	.2790	-.0103	.1696	.1445

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	2512.5	13856.	85677.	3386.8
Stddev	7.2	27.	42.	29.1
%RSD	.28853	.19511	.04940	.86005
#1	2504.2	13831.	85694.	3411.6
#2	2516.1	13853.	85628.	3354.7
#3	2517.3	13885.	85708.	3394.2

Zoom In
Zoom Out

Sample Name: FA23243-25 Acquired: 4/3/2015 19:10:27 Type: Unk
Method: 60102007_042011(v210) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	-.0015	91.47	.0563	.6679	.0045	376.5	.0012	.0109	.1985	.3136
Stddev	.0001	.04	.0008	.0006	.0000	4.7	.0001	.0001	.0005	.0007
%RSD	7.027	.0440	1.448	.0929	.0850	1.243	5.103	.8992	.2547	.2320
#1	-.0014	91.44	.0556	.6686	.0045	371.6	.0012	.0109	.1991	.3129
#2	-.0016	91.47	.0562	.6678	.0045	377.0	.0012	.0108	.1982	.3137
#3	-.0015	91.52	.0572	.6674	.0045	380.9	.0013	.0109	.1984	.3143

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	49.05	2.463	67.86	.6576	.0035	2.330	.0425	.2415	-.0004	.0058
Stddev	.04	.016	.14	.0007	.0001	.003	.0001	.0008	.0011	.0024
%RSD	.0748	.6372	.2039	.1093	3.042	.1338	.2597	.3439	252.5	40.77
#1	49.05	2.449	67.78	.6584	.0036	2.326	.0425	.2417	.0003	.0039
#2	49.01	2.462	68.02	.6573	.0035	2.332	.0426	.2423	-.0017	.0084
#3	49.08	2.480	67.77	.6570	.0034	2.331	.0424	.2406	.0001	.0051

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	2.499	.0156	2.712	.1707	-.0084	.1073	.1644
Stddev	.003	.0002	.005	.0004	.0017	.0004	.0000
%RSD	.1175	1.371	.1684	.2592	20.09	.3895	.0218
#1	2.496	.0153	2.716	.1711	-.0076	.1074	.1643
#2	2.499	.0157	2.707	.1709	-.0073	.1069	.1643
#3	2.502	.0157	2.711	.1702	-.0103	.1077	.1644

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	2609.3	14447.	88120.	3481.4
Stddev	10.0	39.	350.	24.8
%RSD	.38211	.26883	.39716	.71125
#1	2598.2	14408.	87943.	3489.7
#2	2612.2	14446.	87894.	3500.9
#3	2617.6	14486.	88523.	3453.5

Zoom In
Zoom Out

Sample Name: FA23243-26 Acquired: 4/3/2015 19:14:59 Type: Unk
Method: 60102007_042011(v210) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)
Avg	-.0019	104.2	.0390	.7960	.0050	185.7	.0007	.0109
Stddev	.0002	.2	.0009	.0020	.0001	.1	.0000	.0000
%RSD	8.547	.2253	2.227	.2523	1.099	.0624	4.029	.4117
#1	-.0017	104.2	.0385	.7957	.0051	185.6	.0008	.0109
#2	-.0020	104.0	.0400	.7941	.0050	185.6	.0008	.0109
#3	-.0019	104.4	.0385	.7981	.0050	185.8	.0007	.0110

Elem	Cr2677	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)
Avg	.2098	.3130	52.60	1.557	39.93	.3653	.0014	.9586
Stddev	.0005	.0011	.05	.031	.11	.0007	.0002	.0171
%RSD	.2242	.3400	.0923	2.013	.2776	.1780	16.89	1.782
#1	.2094	.3126	52.57	1.577	39.88	.3649	.0012	.9415
#2	.2103	.3142	52.57	1.521	39.85	.3661	.0014	.9756
#3	.2096	.3121	52.65	1.574	40.05	.3649	.0017	.9587

Elem	Ni2316	Pb2203	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)
Avg	.0394	.2781	-.0022	.0038	1.959	.0160	2.295	.1602
Stddev	.0003	.0015	.0008	.0011	.003	.0004	.004	.0003
%RSD	.6505	.5362	37.89	28.20	.1524	2.548	.1748	.1955
#1	.0397	.2798	-.0016	.0036	1.959	.0156	2.299	.1603
#2	.0392	.2770	-.0032	.0049	1.962	.0160	2.291	.1604
#3	.0394	.2775	-.0018	.0028	1.956	.0164	2.295	.1598

Elem	Tl1908	V_2924	Zn2062
IS Ref	(In2306)	(Y_3600)	(Y_2243)
Avg	F-.0101	.0932	.1314
Stddev	.0005	.0003	.0001
%RSD	4.989	.3333	.1045
#1	-.0107	.0933	.1313
#2	-.0100	.0935	.1314
#3	-.0097	.0929	.1315

Zoom In Zoom Out

Sample Name: FA23243-26 Acquired: 4/3/2015 19:14:59 Type: Unk
Method: 60102007_042011(v210) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	2715.8	15039.	92485.	3652.5
Stddev	5.9	30.	375.	15.7
%RSD	.21724	.20160	.40570	.43046
#1	2711.3	15035.	92875.	3668.9
#2	2722.5	15010.	92452.	3637.6
#3	2713.7	15071.	92127.	3651.1

Zoom In Zoom Out

Sample Name: FA23243-27 Acquired: 4/3/2015 19:19:24 Type: Unk
Method: 60102007_042011(v210) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)
Avg	-.0023	77.44	.0583	.4317	.0036	F1147.	.0019	.0094	.1863
Stddev	.0007	.26	.0002	.0011	.0001	23.	.0000	.0000	.0007
%RSD	30.04	.3298	.3528	.2593	4.093	2.032	1.678	.5162	.3530
#1	-.0031	77.33	.0582	.4314	.0038	1160.	.0018	.0094	.1869
#2	-.0019	77.27	.0581	.4308	.0035	1120.	.0018	.0094	.1862
#3	-.0019	77.74	.0585	.4330	.0036	1161.	.0019	.0094	.1856

Elem	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
IS Ref	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)
Avg	.0146	46.11	2.802	263.9	.9303	.0061	9.052	.0469	.1188
Stddev	.0002	.11	.047	1.1	.0009	.0002	.036	.0001	.0028
%RSD	1.531	.2462	1.673	.4084	.0999	3.063	.3929	.1660	2.397
#1	.0148	45.99	2.845	263.1	.9293	.0061	9.020	.0470	.1217
#2	.0143	46.12	2.810	263.5	.9312	.0059	9.044	.0470	.1185
#3	.0146	46.22	2.752	265.1	.9303	.0063	9.090	.0468	.1160

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	.0061	.0035	2.283	.0124	F4.884	.2950	-.0070	.1801	.0656
Stddev	.0011	.0011	.001	.0002	.005	.0001	.0007	.0009	.0001
%RSD	18.27	32.56	.0349	1.602	.0949	.0461	9.680	.4955	.1506
#1	.0058	.0044	2.282	.0124	4.883	.2952	-.0077	.1807	.0656
#2	.0052	.0022	2.283	.0126	4.880	.2949	-.0064	.1806	.0657
#3	.0073	.0038	2.283	.0122	4.890	.2950	-.0067	.1791	.0655

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	2300.8	14187.	86735.	3570.3
Stddev	.5	42.	536.	24.3
%RSD	.02070	.29689	.61753	.68164
#1	2301.2	14234.	87257.	3568.8
#2	2300.3	14175.	86187.	3595.4
#3	2300.9	14153.	86761.	3546.8

Zoom In Zoom Out

Sample Name: FA23243-28 Acquired: 4/3/2015 19:23:56 Type: Unk
Method: 60102007_042011(v210) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)
Avg	-.0025	57.98	.0615	.2936	.0032	F970.1	.0022	.0082
Stddev	.0002	.05	.0006	.0004	.0000	6.2	.0000	.0000
%RSD	7.455	.0929	.9848	.1281	.6354	.6389	.9539	.1195
#1	-.0025	57.98	.0622	.2932	.0032	963.3	.0022	.0082
#2	-.0026	58.04	.0611	.2939	.0032	975.5	.0022	.0082
#3	-.0023	57.93	.0613	.2936	.0032	971.4	.0022	.0082

Elem	Cr2677	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)
Avg	.1688	.0030	37.63	2.801	311.0	1.095	.0068	8.456
Stddev	.0009	.0004	.06	.047	.5	.021	.0001	.027
%RSD	.5061	12.75	.1511	1.677	.1514	1.885	1.404	.3142
#1	.1688	.0034	37.62	2.748	310.5	1.079	.0069	8.426
#2	.1680	.0030	37.69	2.815	311.5	1.088	.0067	8.476
#3	.1697	.0027	37.58	2.839	311.1	1.119	.0067	8.468

Elem	Ni2316	Pb2203	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)
Avg	.0452	.1079	.0036	.0029	1.898	.0105	2.675	.3018
Stddev	.0000	.0020	.0004	.0014	.003	.0001	.005	.0005
%RSD	.0906	1.890	10.73	49.57	.1786	1.165	.1968	.1634
#1	.0452	.1070	.0037	.0027	1.897	.0105	2.672	.3014
#2	.0453	.1102	.0039	.0016	1.902	.0107	2.682	.3016
#3	.0452	.1064	.0032	.0044	1.896	.0104	2.673	.3023

Elem	Tl1908	V_2924	Zn2062
IS Ref	(In2306)	(Y_3600)	(Y_2243)
Avg	F-.0115	.1774	.0627
Stddev	.0021	.0004	.0001
%RSD	18.65	.2291	.1098
#1	-.0104	.1773	.0628
#2	-.0139	.1770	.0627
#3	-.0101	.1778	.0627

Zoom In Zoom Out

Sample Name: FA23243-28 Acquired: 4/3/2015 19:23:56 Type: Unk
Method: 60102007_042011(v210) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	2270.8	15742.	98088.	3974.6
Stddev	5.0	4.	423.	.7
%RSD	.22026	.02510	.43130	.01760
#1	2268.4	15746.	97850.	3974.7
#2	2276.6	15742.	98577.	3975.3
#3	2267.5	15738.	97838.	3973.9

Zoom In
Zoom Out

Sample Name: FA23243-29 Acquired: 4/3/2015 19:28:36 Type: Unk
Method: 60102007_042011(v210) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	-.0002	55.72	.0123	.4902	.0035	52.26	.0004	.0049	.0887	.0191
Stddev	.0004	.45	.0011	.0028	.0000	.31	.0001	.0000	.0002	.0003
%RSD	195.7	.8077	8.893	.5752	.5870	.5929	13.77	.6366	.1775	1.621
#1	-.0004	56.22	.0131	.4932	.0035	52.56	.0004	.0049	.0887	.0194
#2	-.0005	55.62	.0111	.4898	.0035	52.28	.0005	.0049	.0889	.0187
#3	.0002	55.33	.0129	.4876	.0035	51.94	.0004	.0049	.0886	.0191

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	21.52	.6230	10.50	.1094	.0016	.2990	.0285	.1384	-.0022	.0064
Stddev	.15	.0443	.06	.0002	.0001	.0015	.0001	.0010	.0003	.0022
%RSD	.6749	7.113	.5899	.1823	5.230	.4988	.4710	.7193	16.07	33.62
#1	21.66	.6399	10.57	.1096	.0016	.2974	.0286	.1392	-.0024	.0057
#2	21.53	.5727	10.47	.1095	.0017	.2995	.0284	.1373	-.0018	.0089
#3	21.37	.6564	10.45	.1092	.0015	.3003	.0286	.1388	-.0023	.0047

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	2.550	.0177	1.051	.0898	-.0065	.0511	.0509
Stddev	.002	.0003	.004	.0001	.0012	.0002	.0002
%RSD	.0699	1.618	.4321	.1573	19.10	.4643	.3737
#1	2.548	.0180	1.057	.0897	-.0079	.0513	.0507
#2	2.551	.0174	1.050	.0897	-.0055	.0508	.0510
#3	2.550	.0177	1.048	.0899	-.0062	.0511	.0510

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	2854.3	12429.	77208.	2958.8
Stddev	11.0	54.	145.	36.8
%RSD	.38371	.43148	.18835	1.2449
#1	2866.8	12491.	77111.	2920.8
#2	2846.7	12401.	77137.	2961.3
#3	2849.3	12396.	77375.	2994.4

Zoom In
Zoom Out

Sample Name: FA23243-30 Acquired: 4/3/2015 19:33:01 Type: Unk
Method: 60102007_042011(v210) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)
Avg	-.0028	124.5	.0369	.7724	.0069	135.6	.0006	.0153
Stddev	.0002	.3	.0003	.0014	.0001	.3	.0000	.0000
%RSD	5.823	.2293	.8318	.1853	.9334	.2246	1.477	.1895
#1	-.0026	124.7	.0367	.7732	.0069	135.8	.0006	.0153
#2	-.0029	124.2	.0373	.7732	.0068	135.8	.0006	.0153
#3	-.0029	124.7	.0368	.7707	.0069	135.3	.0006	.0153

Elem	Cr2677	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)
Avg	.2482	.0047	79.52	2.004	19.14	.1557	.0080	1.529
Stddev	.0006	.0001	.08	.010	.07	.0004	.0001	.007
%RSD	.2453	2.907	.1062	.4935	.3433	.2486	1.357	.4727
#1	.2484	.0048	79.60	2.009	19.19	.1561	.0081	1.537
#2	.2475	.0047	79.43	1.993	19.17	.1557	.0080	1.527
#3	.2487	.0045	79.52	2.011	19.06	.1553	.0079	1.523

Elem	Ni2316	Pb2203	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)
Avg	.0480	.2340	-.0033	.0087	1.816	.0134	2.058	.1663
Stddev	.0001	.0013	.0002	.0003	.001	.0002	.004	.0004
%RSD	.2588	.5705	6.590	3.132	.0537	1.131	.1780	.2535
#1	.0482	.2348	-.0031	.0086	1.815	.0134	2.062	.1667
#2	.0480	.2347	-.0035	.0084	1.817	.0135	2.054	.1662
#3	.0480	.2325	-.0035	.0089	1.815	.0132	2.058	.1659

Elem	Tl1908	V_2924	Zn2062
IS Ref	(In2306)	(Y_3600)	(Y_2243)
Avg	F-.0149	.2432	.0520
Stddev	.0025	.0001	.0002
%RSD	16.46	.0359	.3555
#1	-.0131	.2433	.0520
#2	-.0177	.2432	.0518
#3	-.0139	.2431	.0522

Zoom In
Zoom Out

Sample Name: FA23243-30 Acquired: 4/3/2015 19:33:01 Type: Unk
Method: 60102007_042011(v210) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	2719.8	17048.	105110.	4103.2
Stddev	2.4	28.	583.	29.3
%RSD	.08700	.16136	.55454	.71376
#1	2719.6	17071.	104480.	4069.4
#2	2717.5	17018.	105200.	4118.7
#3	2722.2	17056.	105630.	4121.5

Zoom In
Zoom Out

Sample Name: FA23243-31 Acquired: 4/3/2015 19:37:25 Type: Unk
Method: 60102007_042011(v210) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)
Avg	-.0029	150.7	.0473	.8121	.0065	230.4	.0009	.0169
Stddev	.0003	.4	.0004	.0025	.0001	1.9	.0000	.0001
%RSD	9.516	.2986	.7969	.3088	1.563	.8406	2.370	.4239
#1	-.0030	151.1	.0474	.8143	.0066	229.9	.0009	.0169
#2	-.0025	150.7	.0469	.8125	.0065	228.8	.0009	.0170
#3	-.0030	150.2	.0476	.8094	.0064	232.5	.0010	.0168

Elem	Cr2677	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)
Avg	.2877	.0024	78.66	3.115	55.20	.2105	.0074	2.391
Stddev	.0005	.0002	.22	.020	.29	.0005	.0001	.004
%RSD	.1867	8.888	.2809	.6453	.5300	.2482	1.543	.1575
#1	.2878	.0021	78.91	3.133	55.54	.2101	.0075	2.394
#2	.2872	.0025	78.60	3.119	55.05	.2104	.0073	2.392
#3	.2882	.0025	78.48	3.093	55.02	.2111	.0073	2.387

Elem	Ni2316	Pb2203	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)
Avg	.0513	.2575	-.0037	.0071	1.915	.0137	2.426	.2427
Stddev	.0003	.0016	.0004	.0011	.001	.0001	.012	.0004
%RSD	.6560	.6246	11.88	14.94	.0271	.8000	.4974	.1581
#1	.0510	.2562	-.0042	.0065	1.915	.0138	2.435	.2425
#2	.0517	.2570	-.0037	.0065	1.916	.0137	2.431	.2425
#3	.0513	.2592	-.0033	.0083	1.915	.0135	2.413	.2432

Elem	Tl1908	V_2924	Zn2062
IS Ref	(In2306)	(Y_3600)	(Y_2243)
Avg	F-.0146	.2769	.0590
Stddev	.0013	.0009	.0001
%RSD	8.887	.3102	.1823
#1	-.0132	.2764	.0590
#2	-.0148	.2764	.0591
#3	-.0158	.2779	.0589

Zoom In Zoom Out

Sample Name: FA23243-31 Acquired: 4/3/2015 19:37:25 Type: Unk
Method: 60102007_042011(v210) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	2605.1	16622.	103010.	4037.7
Stddev	8.1	53.	582.	39.2
%RSD	.31091	.31968	.56530	.97112
#1	2595.8	16566.	102350.	4009.9
#2	2609.3	16630.	103440.	4082.5
#3	2610.3	16671.	103240.	4020.6

Zoom In Zoom Out

Sample Name: FA23243-32 Acquired: 4/3/2015 19:41:58 Type: Unk
Method: 60102007_042011(v210) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	-.0026	58.60	.0173	.5452	.0040	76.87	.0006	.0051	.1190	.0081
Stddev	.0001	.17	.0006	.0030	.0001	.38	.0001	.0000	.0004	.0001
%RSD	2.620	.2974	3.317	.5537	3.006	.4984	8.460	.4641	.3159	.8052
#1	-.0027	58.55	.0170	.5455	.0040	76.75	.0006	.0051	.1192	.0081
#2	-.0026	58.79	.0170	.5481	.0041	77.30	.0006	.0051	.1191	.0081
#3	-.0026	58.46	.0180	.5421	.0038	76.56	.0005	.0051	.1185	.0080

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	26.51	.4457	8.601	.1105	.0012	.6263	.0242	.1301	-.0025	.0060
Stddev	.12	.0229	.034	.0004	.0001	.0091	.0001	.0012	.0003	.0012
%RSD	.4505	5.146	.3984	.3960	11.17	1.452	.3955	.9548	12.95	19.53
#1	26.42	.4321	8.574	.1107	.0010	.6365	.0241	.1309	-.0029	.0053
#2	26.64	.4328	8.640	.1108	.0013	.6232	.0243	.1287	-.0025	.0052
#3	26.47	.4722	8.590	.1100	.0012	.6191	.0242	.1308	-.0022	.0073

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	2.260	.0123	1.347	.0930	-.0093	.0590	.0351
Stddev	.005	.0004	.003	.0004	.0020	.0002	.0001
%RSD	.2405	3.252	.2408	.4648	21.17	.3089	.1732
#1	2.266	.0123	1.347	.0930	-.0104	.0592	.0352
#2	2.258	.0119	1.350	.0934	-.0105	.0590	.0351
#3	2.256	.0127	1.344	.0926	-.0070	.0589	.0350

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	2797.8	16880.	103920.	3999.0
Stddev	10.2	83.	701.	33.8
%RSD	.36463	.49019	.67500	.84544
#1	2786.7	16786.	103410.	4001.9
#2	2806.8	16912.	103620.	3963.8
#3	2799.8	16941.	104720.	4031.2

Zoom In Zoom Out

Sample Name: CCV Acquired: 4/3/2015 19:46:22 Type: QC
Method: 60102007_042011(v210) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2695	42.16	2.111	2.108	2.064	42.24	2.136	2.108	F2.213
Stddev	.0022	.12	.007	.005	.007	.18	.004	.004	.001
%RSD	.8299	.2865	.3161	.2401	.3477	.4168	.1874	.2082	.0594
#1	.2705	42.26	2.106	2.105	2.070	42.44	2.131	2.103	2.214
#2	.2711	42.03	2.109	2.105	2.056	42.20	2.139	2.111	2.211
#3	.2670	42.18	2.119	2.114	2.066	42.09	2.138	2.110	2.214
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
Value									2.000
Range									10.00%

Elem	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.131	41.62	F44.47	42.96	2.131	2.061	41.64	2.161	F2.313
Stddev	.002	.22	.25	.09	.012	.005	.07	.005	.006
%RSD	.1147	.5215	.5596	.2020	.5686	.2483	.1565	.2189	.2803
#1	2.129	41.78	44.46	43.06	2.145	2.056	41.68	2.156	2.305
#2	2.134	41.37	44.23	42.91	2.122	2.065	41.56	2.164	2.316
#3	2.132	41.71	44.73	42.92	2.125	2.063	41.67	2.164	2.317
Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
Value			40.00						2.000
Range			10.00%						10.00%

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.036	2.155	2.100	2.184	2.148	2.108	F2.227	F2.205	F2.283
Stddev	.004	.003	.004	.006	.010	.002	.002	.003	.005
%RSD	.2129	.1326	.1839	.2796	.4838	.0766	.0898	.1502	.2288
#1	2.034	2.157	2.096	2.177	2.151	2.106	2.225	2.201	2.277
#2	2.034	2.156	2.102	2.188	2.137	2.109	2.226	2.206	2.285
#3	2.041	2.152	2.102	2.187	2.157	2.108	2.229	2.207	2.286
Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Fail	Chk Fail
Value							2.000	2.000	2.000
Range							10.00%	10.00%	10.00%

Zoom In Zoom Out

Sample Name: CCV Acquired: 4/3/2015 19:46:22 Type: QC
Method: 60102007_042011(v210) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2616.2	8145.8	51200.	1969.7
Stddev	7.9	22.4	127.	32.8
%RSD	.30356	.27458	.24718	1.6630
#1	2619.8	8161.7	51315.	1934.5
#2	2621.8	8155.5	51219.	1975.4
#3	2607.2	8120.2	51065.	1999.3

Zoom In Zoom Out

Sample Name: CCB Acquired: 4/3/2015 19:50:52 Type: QC
Method: 60102007_042011(v210) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F.0033	-.0237	.0010	.0002	-.0001	-.0068	.0001	.0000
Stddev	.0004	.0335	.0009	.0012	.0001	.0014	.0000	.0001
%RSD	11.19	141.6	94.88	577.6	152.9	21.32	53.33	419.9
#1	.0030	.0073	.0017	.0012	.0001	-.0084	.0001	.0001
#2	.0031	-.0190	.0012	.0007	-.0001	-.0061	.0000	-.0001
#3	.0037	-.0592	-.0001	-.0012	-.0002	-.0058	.0000	.0001
Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	.0010							
Low Limit	-.0010							

Elem	Cr2677	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0005	-.0001	.0173	F-.5030	.0308	.0002	F.0026	-.1010
Stddev	.0003	.0006	.0156	.0220	.0671	.0001	.0005	.0251
%RSD	58.83	735.6	90.58	4.368	217.9	48.60	18.34	24.84
#1	-.0002	-.0002	.0353	-.4886	.0674	.0003	.0031	-.0748
#2	-.0008	.0006	.0069	-.5283	.0716	.0003	.0025	-.1248
#3	-.0005	-.0006	.0096	-.4922	-.0466	.0001	.0022	-.1034
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit				.5000			.0010	
Low Limit				-.5000			-.0010	

Elem	Ni2316	Pb2203	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0004	F-.0017	.0015	F-.0039	.0010	.0007	-.0001	.0010
Stddev	.0003	.0002	.0008	.0015	.0010	.0003	.0003	.0001
%RSD	75.86	9.913	50.72	37.85	99.40	45.60	309.4	14.25
#1	.0007	-.0017	.0023	-.0023	.0021	.0009	-.0001	.0012
#2	.0005	-.0018	.0013	-.0051	.0008	.0009	.0002	.0009
#3	.0001	-.0015	.0008	-.0044	.0001	.0003	-.0004	.0009
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Fail	None	Chk Pass	Chk Pass	Chk Pass
High Limit		.0010		.0020				
Low Limit		-.0010		-.0020				

Zoom In Zoom Out

Sample Name: CCB Acquired: 4/3/2015 19:50:52 Type: QC
Method: 60102007_042011(v210) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm
Avg	-.0017	.0000	.0002
Stddev	.0005	.001	.0001
%RSD	32.73	2140.	26.72
#1	-.0017	.0009	.0003
#2	-.0011	.0000	.0002
#3	-.0022	-.0011	.0003
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2993.7	8557.6	53333.	2006.0
Stddev	4.6	18.7	353.	21.0
%RSD	.15417	.21822	.66165	1.0462
#1	2993.7	8557.1	52942.	1985.4
#2	2998.3	8576.5	53627.	2005.3
#3	2989.0	8539.1	53431.	2027.3

Zoom In Zoom Out

Sample Name: FA23243-33 Acquired: 4/3/2015 19:55:19 Type: Unk
Method: 60102007_042011(v210) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)
Avg	-.0037	119.6	.0329	.8582	.0056	142.1	.0005	.0100
Stddev	.0001	.2	.0008	.0032	.0000	1.2	.0000	.0001
%RSD	3.445	.1839	2.549	.3676	.3961	.8548	1.879	.5383
#1	-.0036	119.5	.0325	.8546	.0056	142.8	.0005	.0099
#2	-.0038	119.5	.0323	.8603	.0056	140.7	.0005	.0101
#3	-.0037	119.9	.0338	.8598	.0056	142.9	.0005	.0100

Elem	Cr2677	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)
Avg	.2405	.0008	56.21	1.271	17.60	.1340	.0027	2.031
Stddev	.0009	.0002	.14	.015	.03	.0002	.0001	.008
%RSD	.3570	25.08	.2562	1.154	.1769	.1764	3.360	.3797
#1	.2400	.0006	56.21	1.268	17.63	.1340	.0026	2.029
#2	.2415	.0010	56.07	1.287	17.57	.1342	.0026	2.025
#3	.2399	.0008	56.36	1.259	17.59	.1338	.0028	2.040

Elem	Ni2316	Pb2203	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)
Avg	.0393	.2825	-.0042	.0067	1.787	.0098	2.432	.1714
Stddev	.0001	.0033	.0008	.0006	.004	.0002	.005	.0004
%RSD	.2529	1.181	18.36	8.988	.2161	1.903	.2112	.2065
#1	.0392	.2864	-.0034	.0074	1.787	.0096	2.426	.1714
#2	.0392	.2804	-.0045	.0063	1.792	.0100	2.433	.1717
#3	.0394	.2808	-.0049	.0065	1.784	.0098	2.436	.1710

Elem	Tl1908	V_2924	Zn2062
IS Ref	(In2306)	(Y_3600)	(Y_2243)
Avg	F-.0163	.1358	.0556
Stddev	.0011	.0005	.0001
%RSD	6.758	.3349	.1167
#1	-.0150	.1357	.0556
#2	-.0168	.1362	.0556
#3	-.0170	.1353	.0557

Zoom In Zoom Out

Sample Name: FA23243-33 Acquired: 4/3/2015 19:55:19 Type: Unk
Method: 60102007_042011(v210) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	2631.5	23007.	141910.	5589.5
Stddev	7.1	32.	1204.	73.3
%RSD	.26878	.13894	.84860	1.3122
#1	2625.6	23042.	140870.	5539.4
#2	2639.3	22979.	141640.	5673.7
#3	2629.5	23000.	143230.	5555.5

Zoom In
Zoom Out

Sample Name: FA23001-29R Acquired: 4/3/2015 19:59:45 Type: Unk
Method: 60102007_042011(v210) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	.0033	29.11	.0480	.1192	.0007	112.0	.0043	.0058	.1166	.2903
Stddev	.0007	.08	.0004	.0011	.0002	.1	.0001	.0000	.0007	.0001
%RSD	22.27	.2602	.8021	.9209	24.43	.1205	2.219	.7294	.6323	.0499
#1	.0031	29.20	.0476	.1196	.0005	112.1	.0044	.0058	.1167	.2902
#2	.0027	29.08	.0481	.1180	.0007	111.9	.0044	.0058	.1173	.2903
#3	.0041	29.06	.0484	.1201	.0008	112.1	.0042	.0058	.1158	.2905

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	26.75	1.019	5.373	1.548	.0045	.6634	.0336	.1342	.0029	.0026
Stddev	.10	.059	.031	.005	.0004	.0120	.0002	.0006	.0009	.0026
%RSD	.3593	5.736	.5714	.3347	9.123	1.808	.7250	.4323	32.12	99.77
#1	26.85	1.005	5.408	1.553	.0050	.6766	.0337	.1336	.0033	-.0003
#2	26.66	1.084	5.351	1.545	.0041	.6532	.0338	.1347	.0034	.0033
#3	26.75	.9694	5.361	1.544	.0045	.6604	.0333	.1343	.0018	.0046

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	1.987	.0296	.5029	.2183	-.0031	.0418	.5962
Stddev	.006	.0004	.0018	.0005	.0005	.0004	.0021
%RSD	.3042	1.404	.3511	.2402	15.78	.8711	.3465
#1	1.993	.0293	.5049	.2188	-.0036	.0420	.5986
#2	1.981	.0296	.5023	.2181	-.0026	.0421	.5948
#3	1.988	.0301	.5016	.2178	-.0033	.0414	.5953

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	2868.5	9127.2	56136.	2136.4
Stddev	20.3	73.1	597.	13.9
%RSD	.70905	.80086	1.0627	.65162
#1	2845.0	9044.6	55492.	2148.3
#2	2881.1	9153.6	56247.	2139.9
#3	2879.4	9183.5	56669.	2121.1

Zoom In
Zoom Out

Sample Name: FA23001-30R Acquired: 4/3/2015 20:04:09 Type: Unk
Method: 60102007_042011(v210) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	.0015	33.84	.0256	.1183	.0011	257.2	.0008	.0040	.0557	.1180
Stddev	.0008	.28	.0012	.0012	.0002	2.3	.0000	.0001	.0006	.0005
%RSD	55.58	.8338	4.750	.9885	15.05	.8998	4.121	2.533	1.019	.4107
#1	.0005	33.54	.0269	.1172	.0012	254.9	.0008	.0041	.0553	.1184
#2	.0019	33.89	.0244	.1182	.0009	257.2	.0008	.0039	.0555	.1182
#3	.0020	34.10	.0256	.1195	.0011	259.5	.0009	.0041	.0564	.1175

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	15.84	.7300	1.870	.2460	.0012	1.686	.0292	.0612	.0019	.0020
Stddev	.15	.0233	.026	.0008	.0000	.018	.0001	.0013	.0010	.0016
%RSD	.9277	3.193	1.391	.3274	.8075	1.085	.3641	2.057	54.25	79.62
#1	15.69	.7034	1.899	.2463	.0012	1.685	.0291	.0621	.0014	.0004
#2	15.85	.7401	1.863	.2451	.0012	1.705	.0292	.0616	.0012	.0036
#3	15.99	.7466	1.849	.2466	.0012	1.669	.0293	.0597	.0031	.0019

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	2.419	.0224	1.356	.3002	-.0041	.1125	.1029
Stddev	.001	.0005	.011	.0006	.0013	.0007	.0003
%RSD	.0277	2.272	.8242	.1995	31.82	.6279	.2448
#1	2.418	.0229	1.344	.3003	-.0026	.1120	.1032
#2	2.419	.0223	1.356	.2996	-.0051	.1133	.1029
#3	2.419	.0219	1.367	.3008	-.0046	.1121	.1027

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	2756.8	9340.8	57817.	2240.5
Stddev	2.9	12.4	401.	33.1
%RSD	.10375	.13292	.69321	1.4778
#1	2759.2	9347.1	57450.	2272.0
#2	2753.6	9326.5	58244.	2206.0
#3	2757.6	9348.9	57756.	2243.7

Zoom In
Zoom Out

Sample Name: FA23001-31R Acquired: 4/3/2015 20:08:35 Type: Unk
Method: 60102007_042011(v210) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)
Avg	.0012	59.93	.0437	.1887	.0017	289.3	.0049	.0086	.1362
Stddev	.0006	.34	.0013	.0011	.0001	1.0	.0001	.0001	.0008
%RSD	46.11	.5716	3.078	.5744	3.295	.3341	1.342	.8799	.5628
#1	.0009	60.20	.0433	.1893	.0017	290.0	.0049	.0085	.1370
#2	.0008	60.04	.0426	.1875	.0017	289.6	.0048	.0086	.1362
#3	.0018	59.55	.0452	.1894	.0016	288.2	.0049	.0086	.1355

Elem	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
IS Ref	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)
Avg	F5.205	23.68	1.895	3.372	.5675	.0106	2.534	.0574	.3242
Stddev	.010	.09	.084	.049	.0008	.0002	.013	.0001	.0005
%RSD	.1846	.3989	4.455	1.440	.1471	2.224	.5190	.2035	.1632
#1	5.208	23.77	1.946	3.349	.5675	.0109	2.548	.0575	.3236
#2	5.212	23.69	1.798	3.427	.5683	.0104	2.522	.0574	.3243
#3	5.194	23.58	1.942	3.339	.5667	.0105	2.534	.0572	.3246

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	.0014	.0056	2.736	.0266	1.440	.3213	-.0057	.1266	.7121
Stddev	.0009	.0026	.002	.0003	.009	.0006	.0006	.0007	.0005
%RSD	61.77	46.08	.0797	.9871	.6522	.1775	11.18	.5611	.0679
#1	.0024	.0083	2.736	.0268	1.451	.3219	-.0055	.1265	.7126
#2	.0009	.0054	2.734	.0266	1.436	.3214	-.0065	.1273	.7116
#3	.0009	.0032	2.739	.0263	1.434	.3207	-.0052	.1259	.7121

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	2707.0	9400.6	58616.	2280.1
Stddev	7.5	15.2	266.	19.6
%RSD	.27827	.16220	.45314	.85813
#1	2713.8	9390.3	58502.	2271.8
#2	2708.4	9418.1	58919.	2266.1
#3	2698.9	9393.4	58426.	2302.5

Zoom In
Zoom Out

Sample Name: FA23001-32R Acquired: 4/3/2015 20:13:01 Type: Unk
Method: 60102007_042011(v210) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	.0025	32.57	.0588	.1633	.0007	362.1	.0063	.0043	.1314	.4161
Stddev	.0008	.13	.0008	.0014	.0002	8.5	.0001	.0001	.0007	.0008
%RSD	30.15	.4060	1.283	.8783	21.12	2.359	1.792	1.404	.5683	.1949
#1	.0034	32.47	.0579	.1631	.0007	352.4	.0064	.0044	.1320	.4167
#2	.0020	32.52	.0590	.1620	.0009	365.4	.0062	.0043	.1306	.4152
#3	.0022	32.72	.0594	.1649	.0006	368.4	.0063	.0044	.1316	.4165

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	16.83	1.416	2.271	1.649	.0061	4.199	.0259	.1289	.0048	.0047
Stddev	.09	.011	.029	.016	.0002	.024	.0001	.0014	.0006	.0011
%RSD	.5467	.7468	1.291	.9378	2.607	.5755	.3716	1.080	13.29	23.49
#1	16.84	1.404	2.239	1.632	.0063	4.201	.0259	.1288	.0056	.0034
#2	16.73	1.420	2.276	1.652	.0060	4.173	.0258	.1304	.0045	.0055
#3	16.91	1.423	2.297	1.662	.0061	4.221	.0259	.1276	.0044	.0052

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	1.668	.0395	1.681	.2061	-.0041	.0315	.8046
Stddev	.002	.0004	.005	.0004	.0011	.0008	.0003
%RSD	.0965	1.127	.2917	.1980	27.52	2.676	.0321
#1	1.669	.0396	1.681	.2061	-.0054	.0321	.8043
#2	1.668	.0390	1.676	.2066	-.0032	.0305	.8046
#3	1.666	.0399	1.686	.2057	-.0037	.0318	.8048

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	2690.7	8715.1	53615.	2112.7
Stddev	1.0	18.5	89.	10.1
%RSD	.03788	.21186	.16641	.47912
#1	2691.0	8693.9	53711.	2120.3
#2	2689.5	8727.1	53598.	2116.6
#3	2691.5	8724.4	53535.	2101.2

Zoom In
Zoom Out

Sample Name: FA23001-33R Acquired: 4/3/2015 20:17:35 Type: Unk
Method: 60102007_042011(v210) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)
Avg	.0037	65.99	.1365	.4362	.0021	92.83	.0254	.0181	.5415
Stddev	.0012	.20	.0007	.0006	.0002	.21	.0001	.0001	.0011
%RSD	33.86	.3010	.4866	.1460	8.566	.2312	.1969	.7471	.1969
#1	.0050	65.78	.1366	.4359	.0020	92.66	.0254	.0182	.5423
#2	.0034	65.99	.1357	.4369	.0023	93.07	.0254	.0181	.5419
#3	.0026	66.18	.1370	.4357	.0020	92.77	.0254	.0180	.5403

Elem	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
IS Ref	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)
Avg	1.714	43.05	3.069	4.420	F4.994	.0084	1.767	.0718	.5643
Stddev	.003	.09	.074	.045	.044	.0002	.013	.0001	.0016
%RSD	.1695	.2201	2.427	1.020	.8917	1.868	.7179	.1546	.2784
#1	1.717	42.98	3.146	4.369	5.045	.0082	1.779	.0717	.5660
#2	1.715	43.01	3.064	4.455	4.962	.0084	1.769	.0719	.5628
#3	1.711	43.16	2.997	4.435	4.975	.0085	1.754	.0718	.5641

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	.0084	.0098	2.653	.0443	.8233	.3449	-.0047	.0754	2.927
Stddev	.0007	.0014	.002	.0003	.0013	.0003	.0018	.0003	.001
%RSD	8.293	14.12	.0911	.6575	.1548	.0811	37.16	.3879	.0354
#1	.0090	.0105	2.651	.0446	.8242	.3450	-.0059	.0751	2.926
#2	.0085	.0107	2.656	.0441	.8219	.3445	-.0056	.0754	2.928
#3	.0076	.0082	2.652	.0442	.8239	.3450	-.0027	.0757	2.928

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	2818.6	9254.1	57420.	2224.4
Stddev	2.6	17.4	312.	20.3
%RSD	.09310	.18798	.54290	.91401
#1	2815.6	9274.2	57463.	2247.7
#2	2819.7	9243.1	57709.	2210.3
#3	2820.5	9245.1	57090.	2215.2

Zoom In
Zoom Out

Sample Name: CRIA Acquired: 4/3/2015 20:22:08 Type: Unk
Method: 60102007_042011(v210) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	.0137	.2187	.0115	.2064	.0047	1.031	.0050	.0515	.0100	.0267
Stddev	.0008	.0145	.0006	.0009	.0001	.004	.0000	.0001	.0006	.0007
%RSD	5.807	6.640	5.192	.4537	3.061	.4030	.1609	.2863	5.647	2.504
#1	.0133	.2159	.0109	.2071	.0047	1.032	.0050	.0514	.0101	.0262
#2	.0147	.2058	.0121	.2054	.0048	1.034	.0050	.0516	.0105	.0275
#3	.0133	.2344	.0114	.2069	.0045	1.026	.0051	.0514	.0094	.0265

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	.3102	10.34	5.296	.0163	.0479	10.32	.0433	.0043	.0047	.0069
Stddev	.0072	.06	.032	.0001	.0002	.05	.0001	.0002	.0016	.0019
%RSD	2.315	.5675	.6011	.5569	.3651	.4443	.1623	4.110	34.54	28.00
#1	.3185	10.40	5.311	.0164	.0481	10.27	.0432	.0041	.0042	.0048
#2	.3061	10.28	5.317	.0164	.0477	10.33	.0434	.0044	.0033	.0087
#3	.3060	10.33	5.259	.0162	.0480	10.36	.0434	.0045	.0065	.0073

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	.0671	.0540	.0103	.0103	.0068	.0513	.0233
Stddev	.0002	.0003	.0002	.0000	.0010	.0002	.0002
%RSD	.3702	.5466	1.856	.1762	15.39	.3041	.6463
#1	.0668	.0537	.0104	.0102	.0066	.0511	.0235
#2	.0672	.0541	.0105	.0103	.0079	.0514	.0232
#3	.0672	.0543	.0101	.0103	.0059	.0512	.0233

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	2888.2	8532.6	53441.	2000.2
Stddev	7.2	10.4	275.	14.1
%RSD	.25042	.12132	.51462	.70447
#1	2895.0	8544.5	53505.	1987.6
#2	2889.0	8527.5	53140.	2015.4
#3	2880.6	8525.7	53679.	1997.5

Zoom In
Zoom Out

Sample Name: ICSA Acquired: 4/3/2015 20:26:34 Type: Unk
Method: 60102007_042011(v210) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)
Avg	.0026	F525.6	-.0006	-.0006	-.0002	F506.1	-.0010	.0000	-.0003
Stddev	.0011	1.5	.0033	.0001	.0002	4.0	.0001	.000	.0003
%RSD	42.34	.2798	539.7	10.42	114.5	.7951	6.771	138.1	112.0
#1	.0024	523.9	.0017	-.0005	-.0001	503.1	-.0010	.0000	-.0001
#2	.0038	526.7	.0009	-.0006	-.0005	504.6	-.0010	.0000	-.0006
#3	.0016	526.1	-.0044	-.0005	.0000	510.7	-.0009	-.0001	-.0001

Elem	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
IS Ref	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)
Avg	-.0039	190.1	-.4029	F514.7	-.0016	.0002	.0732	.0000	.0145
Stddev	.0005	.8	.0096	1.1	.0001	.0004	.0274	.0004	.0029
%RSD	11.65	.4410	2.382	.2158	7.916	216.3	37.41	1229.	20.17
#1	-.0044	189.2	-.4011	513.5	-.0016	-.0003	.0499	.0003	.0142
#2	-.0038	190.7	-.4133	515.7	-.0014	.0003	.0663	-.0004	.0175
#3	-.0036	190.5	-.3943	514.9	-.0016	.0004	.1034	.0002	.0117

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	.0022	.0001	.0495	.0011	.0009	-.0004	-.0013	-.0006	.0014
Stddev	.0018	.0013	.0012	.0001	.0001	.0002	.0012	.0003	.0001
%RSD	85.17	1724.	2.399	13.41	10.59	36.46	88.87	61.42	7.573
#1	.0027	.0011	.0500	.0010	.0008	-.0006	-.0005	-.0008	.0014
#2	.0037	-.0014	.0482	.0010	.0010	-.0003	-.0008	-.0007	.0015
#3	.0001	.0005	.0504	.0012	.0010	-.0003	-.0026	-.0002	.0013

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	2492.6	7782.5	47452.	1909.6
Stddev	9.2	28.3	206.	10.2
%RSD	.36816	.36406	.43498	.53186
#1	2485.8	7784.9	47515.	1913.1
#2	2503.1	7809.5	47222.	1898.1
#3	2489.0	7753.0	47620.	1917.5

Zoom In
Zoom Out

Sample Name: ICSAB Acquired: 4/3/2015 20:31:08 Type: Unk
Method: 60102007_042011(v210) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)
Avg	F1.059	F511.7	1.081	.5421	.5183	496.0	.9674	.4955	.5311
Stddev	.001	1.6	.002	.0029	.0016	10.1	.0008	.0005	.0014
%RSD	.0624	.3037	.1417	.5320	.3125	2.033	.0824	.1008	.2552
#1	1.058	510.1	1.083	.5454	.5164	484.7	.9682	.4959	.5299
#2	1.059	511.7	1.080	.5401	.5188	504.3	.9666	.4955	.5308
#3	1.059	513.2	1.081	.5407	.5195	498.8	.9673	.4949	.5326

Elem	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
IS Ref	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)
Avg	.5486	189.4	-.4114	F504.2	.5271	.9630	.0669	1.026	1.090
Stddev	.0012	.7	.0705	1.6	.0004	.0006	.0167	.002	.006
%RSD	.2173	.3477	17.12	.3256	.0695	.0583	24.99	.1663	.5146
#1	.5479	188.8	-.4163	502.4	.5267	.9628	.0549	1.025	1.085
#2	.5479	189.4	-.4793	504.5	.5274	.9626	.0598	1.028	1.090
#3	.5500	190.1	-.3387	505.7	.5271	.9636	.0860	1.026	1.096

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	1.050	1.075	.1137	1.035	1.084	1.030	1.039	.5217	1.080
Stddev	.004	.004	.0009	.002	.004	.000	.003	.0014	.002
%RSD	.3847	.3706	.7822	.1549	.3293	.0246	.3309	.2665	.1455
#1	1.051	1.070	.1129	1.035	1.080	1.030	1.037	.5201	1.078
#2	1.053	1.077	.1147	1.034	1.084	1.030	1.037	.5222	1.079
#3	1.045	1.077	.1135	1.037	1.087	1.030	1.043	.5228	1.081

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	2461.1	7775.9	47958.	1939.3
Stddev	4.7	10.6	80.	13.3
%RSD	.19175	.13612	.16727	.68439
#1	2466.2	7783.0	48051.	1953.7
#2	2460.0	7781.0	47910.	1927.5
#3	2457.0	7763.7	47914.	1936.8

Zoom In Zoom Out

Sample Name: CCV Acquired: 4/3/2015 20:35:39 Type: QC
Method: 60102007_042011(v210) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2629	41.65	2.047	2.082	2.035	41.60	2.071	2.051	2.160
Stddev	.0010	.31	.005	.017	.015	.21	.004	.003	.006
%RSD	.3856	.7537	.2672	.8317	.7431	.5006	.1694	.1362	.2853
#1	.2633	42.00	2.048	2.101	2.052	41.84	2.073	2.053	2.162
#2	.2617	41.54	2.041	2.076	2.026	41.46	2.067	2.048	2.153
#3	.2636	41.40	2.052	2.068	2.026	41.49	2.072	2.051	2.164
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value									
Range									

Elem	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.085	40.54	43.74	42.20	2.080	2.008	41.18	2.106	F2.262
Stddev	.007	.36	.28	.27	.023	.004	.27	.003	.005
%RSD	.3166	.8920	.6325	.6398	1.106	.1772	.6618	.1241	.2034
#1	2.085	40.96	44.04	42.46	2.065	2.008	41.49	2.109	2.258
#2	2.078	40.33	43.70	42.21	2.069	2.004	41.05	2.104	2.267
#3	2.091	40.34	43.49	41.92	2.107	2.011	40.99	2.105	2.260
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
Value									2.000
Range									10.00%

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.976	2.093	2.038	2.124	2.128	2.055	2.184	2.165	F2.227
Stddev	.007	.003	.005	.004	.017	.002	.008	.008	.002
%RSD	.3322	.1571	.2373	.1675	.7990	.0822	.3647	.3638	.0982
#1	1.978	2.093	2.043	2.126	2.146	2.054	2.183	2.169	2.229
#2	1.968	2.089	2.033	2.120	2.126	2.054	2.192	2.155	2.225
#3	1.981	2.096	2.038	2.127	2.112	2.057	2.177	2.169	2.227
Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
Value									2.000
Range									10.00%

Zoom In Zoom Out

Sample Name: CCV Acquired: 4/3/2015 20:35:39 Type: QC
Method: 60102007_042011(v210) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2646.9	8260.2	51408.	1974.7
Stddev	7.9	15.7	255.	6.9
%RSD	.29663	.18964	.49523	.34748
#1	2643.1	8244.0	51414.	1968.2
#2	2641.7	8261.4	51660.	1974.0
#3	2656.0	8275.3	51151.	1981.9

Zoom In Zoom Out

Sample Name: CCB Acquired: 4/3/2015 20:40:10 Type: QC
Method: 60102007_042011(v210) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F.0024	F.0250	.0016	.0004	.0000	-.0076	.0001	.0000
Stddev	.0006	.0251	.0019	.0006	.0002	.0036	.0000	.0001
%RSD	26.59	100.3	124.4	149.7	775.7	47.01	52.43	233.7
#1	.0030	.0036	-.0006	.0010	-.0002	-.0066	.0001	.0000
#2	.0024	.0189	.0032	.0000	.0000	-.0115	.0000	.0001
#3	.0017	.0526	.0020	.0001	.0003	-.0046	.0000	.0000
Check ?	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	.0010	.0250						
Low Limit	-.0010	-.0250						

Elem	Cr2677	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0005	-.0005	.0187	F-.5232	.0078	.0002	F.0027	-.1349
Stddev	.0002	.0003	.0085	.0849	.0495	.0001	.0004	.0191
%RSD	38.83	63.98	45.20	16.23	639.0	23.63	14.11	14.19
#1	-.0007	-.0009	.0279	-.5266	.0642	.0002	.0030	-.1171
#2	-.0005	-.0005	.0171	-.6064	-.0288	.0003	.0028	-.1325
#3	-.0003	-.0002	.0112	-.4366	-.0121	.0002	.0023	-.1551
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit				.5000			.0010	
Low Limit				-.5000			-.0010	

Elem	Ni2316	Pb2203	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0004	-.0005	F.0024	-.0020	.0006	.0007	.0000	.0012
Stddev	.0002	.0012	.0013	.0010	.0011	.0001	.000	.0000
%RSD	48.63	215.7	57.18	51.05	178.5	19.33	602.6	1.908
#1	.0003	-.0013	.0011	-.0022	.0004	.0005	.0000	.0012
#2	.0006	-.0011	.0022	-.0009	.0018	.0007	-.0003	.0012
#3	.0003	.0008	.0038	-.0028	-.0004	.0008	.0002	.0012
Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass
High Limit			.0020					
Low Limit			-.0020					

Zoom In Zoom Out

Sample Name: CCB Acquired: 4/3/2015 20:40:10 Type: QC
Method: 60102007_042011(v210) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm
Avg	-.0014	-.0004	.0002
Stddev	.0009	.0003	.0001
%RSD	65.74	80.20	29.04
#1	-.0006	-.0006	.0002
#2	-.0011	.0000	.0002
#3	-.0024	-.0005	.0003
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3056.7	8791.2	54146.	2067.3
Stddev	11.8	38.1	277.	19.9
%RSD	.38461	.43374	.51102	.96116
#1	3043.2	8750.2	54038.	2088.0
#2	3064.6	8825.6	53939.	2048.4
#3	3062.2	8797.8	54460.	2065.4

Element, Wavelength and Order	Use?	# IECs	IEC	k1	k2	Calc-in-fit?
Ag 328.068 {103}	☒	2	V	-0.005817	0.000000	No
			Fe	0.000005	0.000000	No
Al 396.152 { 85}	☒	1	Mo	0.040330	0.000000	No
As 189.042 {478}	☒	4	Fe	-0.000091	0.000000	No
			Cr	-0.000653	0.000000	No
			Mo	0.000444	0.000000	No
			Al	0.000001	0.000000	No
Ba 455.403 { 74}	☒	1	Fe	0.000007	0.000000	No
Be 313.042 {108}	☒	2	V	0.000625	0.000000	No
			Ti	-0.000289	0.000000	No
Ca 317.933 {106}	☒	None				
Cd 226.502 {449}	☒	4	Fe	0.000055	0.000000	No
			Ca	-0.000000	0.000000	No
			Al	-0.000002	0.000000	No
			Ti	0.000103	0.000000	No
Co 228.616 {447}	☒	3	Mo	-0.001220	0.000000	No
			Ti	0.002210	0.000000	No
			Fe	0.000001	0.000000	No
Cr 267.716 {126}	☒	4	Al	0.000001	0.000000	No
			Fe	-0.000002	0.000000	No
			Ca	-0.000000	0.000000	No
			Cd	-0.000120	0.000000	No
Cu 324.754 {104}	☒	10	Mo	0.000189	0.000000	No
			Sn	-0.000012	0.000000	No
			V	-0.000158	0.000000	No
			Al	0.000003	0.000000	No
			Mg	0.000003	0.000000	No
			Co	-0.000547	0.000000	No
			Cd	0.000190	0.000000	No
			Fe	-0.000176	0.000000	No
			Ca	0.000001	0.000000	No
			Ti	-0.000268	0.000000	No
Fe 259.940 {130}	☒	None				
In 230.606 {446}*	☒	None				
K 766.490 { 44}	☒	None				
Mg 279.079 {121}	☒	None				
Mn 257.610 {131}	☒	2	Fe	0.000001	0.000000	No
			Mg	0.000000	0.000000	No
Mo 202.030 {467}	☒	1	Fe	-0.000002	0.000000	No
Na 589.592 { 57}	☒	None				
Ni 231.604 {445}	☒	7	Fe	-0.000037	0.000000	No
			Co	0.000112	0.000000	No
			Mo	0.000980	0.000000	No
			Sb	-0.000120	0.000000	No
			Al	-0.000000	0.000000	No
			Be	-0.000304	0.000000	No
			Tl	0.000172	0.000000	No
Pb 220.353 {453}	☒	8	Al	0.000499	0.000000	No
			Fe	-0.000514	0.000000	No
			Mo	-0.002189	0.000000	No
			Cu	0.000467	0.000000	No
			Ti	0.000036	0.000000	No
			Si	0.000178	0.000000	No
			Ca	-0.000005	0.000000	No
			Cr	-0.000260	0.000000	No
Sb 206.833 {463}	☒	11	Fe	0.000078	0.000000	No
			Cr	0.011486	0.000000	No

Element, Wavelength and Order	Use?	# IECs	IEC	k1	k2	Calc-in-fit?
			Mo	-0.003944	0.000000	No
			V	-0.000441	0.000000	No
			Sn	-0.008695	0.000000	No
			Ti	0.000278	0.000000	No
			Ca	-0.000009	0.000000	No
			Ni	-0.000818	0.000000	No
			Al	0.000006	0.000000	No
			Mn	-0.000133	0.000000	No
			Mg	-0.000000	0.000000	No
Se 196.090 {472}	X	12	Fe	0.000000	0.000000	No
			Ca	0.000004	0.000000	No
			Mn	0.000331	0.000000	No
			Mo	0.000111	0.000000	No
			Al	-0.000025	0.000000	No
			V	0.000000	0.000000	No
			Zn	0.000000	0.000000	No
			Sr	-0.000111	0.000000	No
			As	0.000125	0.000000	No
			Cd	-0.000250	0.000000	No
			Mg	0.000001	0.000000	No
			Cr	-0.000326	0.000000	No
Si 212.412 {459}	X	1	Mo	0.019120	0.000000	No
Sn 189.989 {477}	X	None				
Sr 407.771 { 83}	X	1	Ca	0.000012	0.000000	No
Ti 334.941 {101}	X	1	Ca	-0.000013	0.000000	No
Tl 190.856 {477}	X	10	Co	0.004099	0.000000	No
			Fe	0.000044	0.000000	No
			Al	-0.000018	0.000000	No
			Ba	-0.000051	0.000000	No
			Ti	-0.000648	0.000000	No
			Sb	0.000167	0.000000	No
			Ca	-0.000004	0.000000	No
			Cr	0.000340	0.000000	No
			Mg	-0.000001	0.000000	No
			V	0.000015	0.000000	No
V 292.402 {115}	X	5	Fe	0.000016	0.000000	No
			Cr	-0.003634	0.000000	No
			Mo	-0.009536	0.000000	No
			Ti	0.000303	0.000000	No
			Mn	-0.000333	0.000000	No
Y 224.306 {450}*	X	None				
Y 360.073 { 94}*	X	None				
Y 371.030 { 91}*	X	None				
Zn 206.200 {463}	X	5	Cr	-0.001305	0.000000	No
			Al	0.000000	0.000000	No
			Ca	0.000003	0.000000	No
			Fe	0.000000	0.000000	No
			As	0.001105	0.000000	No

	Element, Wavelength and Order	Date of Fit	Date of Cal.	Type of Fit	Weighting	A0	A1	A2	n (Exponent)
	Ag 328.068 {103}	4/3/2015 7:30:13	4/3/2015 7:30:13	Linear	1/Conc	0.002793	0.538527	0.000000	1.000000
	Al 396.152 { 85}	4/3/2015 7:30:13	4/3/2015 7:30:13	Linear	1/Conc	0.007621	0.176051	0.000000	1.000000
	As 189.042 {478}	4/3/2015 7:30:13	4/3/2015 7:30:13	Linear	1/Conc	-0.000255	0.168330	0.000000	1.000000
	Ba 455.403 { 74}	4/3/2015 7:30:13	4/3/2015 7:30:13	Linear	1/Conc	-0.005274	8.332650	0.000000	1.000000
	Be 313.042 {108}	4/3/2015 7:30:13	4/3/2015 7:30:13	Linear	1/Conc	0.001123	8.583669	0.000000	1.000000
	Ca 317.933 {106}	4/3/2015 7:30:13	4/3/2015 7:30:13	Linear	1/Conc	0.008640	0.271314	0.000000	1.000000
	Cd 226.502 {449}	4/3/2015 7:30:13	4/3/2015 7:30:13	Linear	1/Conc	-0.001658	4.872456	0.000000	1.000000
	Co 228.616 {447}	4/3/2015 7:30:13	4/3/2015 7:30:13	Linear	1/Conc	-0.000708	2.402391	0.000000	1.000000
	Cr 267.716 {126}	4/3/2015 7:30:13	4/3/2015 7:30:13	Linear	1/Conc	-0.000523	0.519578	0.000000	1.000000
	Cu 324.754 {104}	4/3/2015 7:30:13	4/3/2015 7:30:13	Linear	1/Conc	0.002530	0.655019	0.000000	1.000000
	Fe 259.940 {130}	4/3/2015 7:30:13	4/3/2015 7:30:13	Linear	1/Conc	0.002903	0.179452	0.000000	1.000000
	In 230.606 {446}*	4/3/2015 7:13:55	5/5/2010 12:30:54	Linear	1/Conc	0.000000	0.000000	0.000000	1.000000
	K 766.490 { 44}	4/3/2015 7:30:13	4/3/2015 7:30:13	Linear	1/Conc	-0.020878	0.106148	0.000000	1.000000
	Mg 279.079 {121}	4/3/2015 7:30:13	4/3/2015 7:30:13	Linear	1/Conc	-0.000275	0.036117	0.000000	1.000000
	Mn 257.610 {131}	4/3/2015 7:30:13	4/3/2015 7:30:13	Linear	1/Conc	0.000788	2.645987	0.000000	1.000000
	Mo 202.030 {467}	4/3/2015 7:30:13	4/3/2015 7:30:13	Linear	1/Conc	0.001304	0.984237	0.000000	1.000000
	Na 589.592 { 57}	4/3/2015 7:30:13	4/3/2015 7:30:13	Linear	1/Conc	-0.060854	0.325943	0.000000	1.000000
	Ni 231.604 {445}	4/3/2015 7:30:13	4/3/2015 7:30:13	Linear	1/Conc	0.001614	1.353710	0.000000	1.000000
	Pb 220.353 {453}	4/3/2015 7:30:13	4/3/2015 7:30:13	Linear	1/Conc	0.000196	0.949221	0.000000	1.000000
	Sb 206.833 {463}	4/3/2015 7:30:13	4/3/2015 7:30:13	Linear	1/Conc	0.001685	0.188416	0.000000	1.000000
	Se 196.090 {472}	4/3/2015 7:30:13	4/3/2015 7:30:13	Linear	1/Conc	-0.000819	0.128491	0.000000	1.000000
	Si 212.412 {459}	4/3/2015 7:30:13	4/3/2015 7:30:13	Linear	1/Conc	0.003795	0.268902	0.000000	1.000000
	Sn 189.989 {477}	4/3/2015 7:30:13	4/3/2015 7:30:13	Linear	1/Conc	0.000839	0.469768	0.000000	1.000000
	Sr 407.771 { 83}	4/3/2015 7:30:13	4/3/2015 7:30:13	Linear	1/Conc	0.004074	12.458447	0.000000	1.000000
	Ti 334.941 {101}	4/3/2015 7:30:13	4/3/2015 7:30:13	Linear	1/Conc	0.003220	1.562343	0.000000	1.000000
	Tl 190.856 {477}	4/3/2015 7:30:13	4/3/2015 7:30:13	Linear	1/Conc	-0.002978	0.314648	0.000000	1.000000
	V 292.402 {115}	4/3/2015 7:30:13	4/3/2015 7:30:13	Linear	1/Conc	-0.000976	0.598882	0.000000	1.000000
	Y 224.306 {450}*	<not fit>	<Never Calibrated>	Linear	1/Conc	0.000000	0.000000	0.000000	1.000000
	Y 360.073 { 94}*	<not fit>	<Never Calibrated>	Linear	1/Conc	0.000000	0.000000	0.000000	1.000000
	Y 371.030 { 91}*	<not fit>	<Never Calibrated>	Linear	1/Conc	0.000000	0.000000	0.000000	1.000000
	Zn 206.200 {463}	4/3/2015 7:30:13	4/3/2015 7:30:13	Linear	1/Conc	0.000967	3.330306	0.000000	1.000000

Element, Wavelength and Order	Correlation	Std Error of Est	Predicted MDL	Predicted MQL	Status	Reslope		QC Norm	
						Slope	Y-int	Slope factor	Offset
Ag 328.068 {103}	0.999992	0.000021	0.000544	0.001813	OK.	1.000000	0.000000	1	0
Al 396.152 { 85}	0.999841	0.005063	0.016710	0.055700	OK.	1.000000	0.000000	1	0
As 189.042 {478}	0.999864	0.000223	0.000933	0.003111	OK.	1.000000	0.000000	1	0
Ba 455.403 { 74}	0.999966	0.005510	0.000456	0.001521	OK.	1.000000	0.000000	1	0
Be 313.042 {108}	0.999932	0.008042	0.000144	0.000480	OK.	1.000000	0.000000	1	0
Ca 317.933 {106}	0.999855	0.007448	0.005229	0.017429	OK.	1.000000	0.000000	1	0
Cd 226.502 {449}	0.999933	0.004541	0.000052	0.000173	OK.	1.000000	0.000000	1	0
Co 228.616 {447}	0.999936	0.002185	0.000118	0.000394	OK.	1.000000	0.000000	1	0
Cr 267.716 {126}	0.999946	0.000434	0.000339	0.001131	OK.	1.000000	0.000000	1	0
Cu 324.754 {104}	0.999963	0.000449	0.000403	0.001342	OK.	1.000000	0.000000	1	0
Fe 259.940 {130}	0.999770	0.006206	0.004191	0.013971	OK.	1.000000	0.000000	1	0
In 230.606 {446}*	0.000000	0.000000	-1.000000	-1.000000	Warnin	1.000000	0.000000	1	0
K 766.490 { 44}	0.999754	0.003790	0.050119	0.167062	OK.	1.000000	0.000000	1	0
Mg 279.079 {121}	0.999842	0.001036	0.026733	0.089112	OK.	1.000000	0.000000	1	0
Mn 257.610 {131}	0.999781	0.004462	0.000061	0.000202	OK.	1.000000	0.000000	1	0
Mo 202.030 {467}	0.999957	0.000736	0.000169	0.000564	OK.	1.000000	0.000000	1	0
Na 589.592 { 57}	0.999864	0.008653	0.017501	0.058337	OK.	1.000000	0.000000	1	0
Ni 231.604 {445}	0.999918	0.001395	0.000212	0.000707	OK.	1.000000	0.000000	1	0
Pb 220.353 {453}	0.999850	0.001322	0.000588	0.001961	OK.	1.000000	0.000000	1	0
Sb 206.833 {463}	0.999917	0.000196	0.001402	0.004673	OK.	1.000000	0.000000	1	0
Se 196.090 {472}	0.999903	0.000144	0.001865	0.006216	OK.	1.000000	0.000000	1	0
Si 212.412 {459}	0.981277	0.004332	0.000687	0.002289	OK.	1.000000	0.000000	1	0
Sn 189.989 {477}	0.999949	0.000384	0.000286	0.000954	OK.	1.000000	0.000000	1	0
Sr 407.771 { 83}	0.999957	0.009288	0.000191	0.000638	OK.	1.000000	0.000000	1	0
Ti 334.941 {101}	0.999872	0.002009	0.000176	0.000587	OK.	1.000000	0.000000	1	0
Tl 190.856 {477}	0.999920	0.000322	0.001006	0.003352	OK.	1.000000	0.000000	1	0
V 292.402 {115}	1.000000	0.000043	0.000370	0.001234	OK.	1.000000	0.000000	1	0
Y 224.306 {450}*	0.000000	0.000000	-1.000000	-1.000000	Warnin	1.000000	0.000000	1	0
Y 360.073 { 94}*	0.000000	0.000000	-1.000000	-1.000000	Warnin	1.000000	0.000000	1	0
Y 371.030 { 91}*	0.000000	0.000000	-1.000000	-1.000000	Warnin	1.000000	0.000000	1	0
Zn 206.200 {463}	0.999926	0.003263	0.000058	0.000193	OK.	1.000000	0.000000	1	0

Zoom In
Zoom Out

Sample Name: Blank Acquired: 4/3/2015 7:16:36 Type: Cal
Method: 60102007_041712(v213) Mode: IR Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.0004	.0026	-.0002	.0082	-.0011	.0058	-.0006	.0002	.0000
Stddev	.0003	.0006	.0002	.0032	.0006	.0005	.0003	.0003	.0001
%RSD	70.84	25.03	65.07	39.24	57.43	9.055	46.94	143.1	505.0
#1	.0005	.0020	-.0004	.0072	-.0018	.0054	-.0003	.0001	.0001
#2	.0001	.0025	-.0003	.0056	-.0007	.0057	-.0009	.0005	-.0001
#3	.0006	.0033	-.0001	.0118	-.0007	.0064	-.0007	.0000	.0000

Elem	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.0031	.0024	-.0004	-.0002	.0001	.0019	.0217	-.0001	-.0030
Stddev	.0001	.0004	.0056	.0002	.0001	.0003	.0048	.0001	.0006
%RSD	2.462	15.20	1409.	90.83	55.39	13.80	22.23	84.46	19.95
#1	.0032	.0028	.0059	-.0004	.0001	.0022	.0240	-.0001	-.0031
#2	.0031	.0021	-.0048	-.0003	.0002	.0018	.0249	-.0002	-.0036
#3	.0030	.0022	-.0023	.0000	.0001	.0017	.0161	.0000	-.0024

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.0011	-.0006	.0082	.0004	-.0011	.0025	-.0036	-.0002	.0018
Stddev	.0001	.0000	.0002	.0000	.0008	.0003	.0003	.0001	.0001
%RSD	9.403	5.214	2.429	7.095	69.54	10.71	7.539	76.29	6.922
#1	.0012	-.0006	.0084	.0004	-.0020	.0027	-.0039	-.0003	.0019
#2	.0012	-.0006	.0080	.0004	-.0005	.0027	-.0036	-.0003	.0017
#3	.0010	-.0006	.0082	.0004	-.0008	.0022	-.0034	.0000	.0018

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3081.3	7537.4	45380.	3427.5
Stddev	6.3	5.7	277.	21.6
%RSD	.20533	.07547	.61149	.62941
#1	3086.1	7530.8	45366.	3430.2
#2	3074.1	7540.3	45110.	3404.7
#3	3083.7	7541.0	45664.	3447.6

Zoom In
Zoom Out

Sample Name: LowStd Acquired: 4/3/2015 7:19:52 Type: Cal
Method: 60102007_041712(v213) Mode: IR Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.0343	1.759	.0982	5.416	4.059	2.436	2.526	1.207	.2586	.3992
Stddev	.0002	.005	.0002	.013	.007	.012	.002	.002	.0008	.0006
%RSD	.4757	.2699	.1700	.2351	.1726	.4731	.0729	.1226	.3287	.1620
#1	.0343	1.763	.0983	5.424	4.067	2.449	2.526	1.208	.2576	.3985
#2	.0345	1.760	.0982	5.401	4.056	2.427	2.528	1.207	.2592	.3997
#3	.0342	1.753	.0980	5.423	4.055	2.432	2.524	1.205	.2590	.3995

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1.138	1.580	.2070	1.494	.6184	5.198	.6919	.5863	.1218	.0714
Stddev	.005	.004	.0017	.006	.0004	.018	.0009	.0006	.0003	.0002
%RSD	.4037	.2235	.8307	.4211	.0654	.3375	.1360	.0990	.2825	.3347
#1	1.142	1.582	.2066	1.487	.6181	5.217	.6919	.5861	.1220	.0712
#2	1.133	1.581	.2055	1.498	.6188	5.183	.6928	.5859	.1220	.0717
#3	1.141	1.576	.2088	1.497	.6182	5.194	.6910	.5870	.1214	.0714

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.3009	.2407	9.544	.9856	.2925	.3526	1.535
Stddev	.0004	.0004	.030	.0033	.0004	.0008	.000
%RSD	.1266	.1615	.3198	.3330	.1320	.2189	.0068
#1	.3011	.2410	9.579	.9819	.2921	.3517	1.535
#2	.3010	.2408	9.525	.9869	.2926	.3532	1.534
#3	.3004	.2403	9.529	.9880	.2928	.3529	1.535

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2853.8	7450.4	44223.	3370.5
Stddev	5.4	6.5	95.	24.3
%RSD	.19006	.08783	.21438	.72017
#1	2858.2	7457.0	44327.	3355.8
#2	2855.6	7443.9	44200.	3398.5
#3	2847.7	7450.4	44142.	3357.2

Zoom In
Zoom Out

Sample Name: MidStd Acquired: 4/3/2015 7:22:51 Type: Cal
Method: 60102007_041712(v213) Mode: IR Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.1339	7.424	.4025	22.12	16.43	10.19	10.14	4.797	1.043	1.596
Stddev	.0004	.012	.0003	.02	.01	.01	.01	.004	.001	.003
%RSD	.3255	.1644	.0817	.0976	.0883	.0831	.1095	.0744	.0654	.1759
#1	.1335	7.411	.4026	22.12	16.42	10.19	10.13	4.794	1.043	1.593
#2	.1339	7.435	.4029	22.14	16.45	10.20	10.15	4.801	1.042	1.596
#3	.1343	7.428	.4022	22.10	16.43	10.19	10.14	4.795	1.043	1.598

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4.819	6.738	.8655	5.997	2.417	22.03	2.739	2.453	.4896	.2924
Stddev	.007	.005	.0012	.008	.009	.01	.002	.001	.0014	.0005
%RSD	.1439	.0790	.1372	.1373	.3712	.0259	.0687	.0493	.2869	.1804
#1	4.818	6.743	.8651	5.998	2.407	22.02	2.737	2.454	.4890	.2925
#2	4.827	6.739	.8669	5.988	2.421	22.03	2.741	2.452	.4912	.2928
#3	4.813	6.733	.8646	6.005	2.424	22.03	2.739	2.454	.4886	.2918

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.7627	.9091	37.31	3.923	1.204	1.369	6.132
Stddev	.0012	.0010	.03	.006	.002	.001	.006
%RSD	.1589	.1140	.0908	.1457	.1628	.0449	.1052
#1	.7621	.9085	37.28	3.920	1.206	1.369	6.125
#2	.7641	.9103	37.30	3.919	1.204	1.370	6.134
#3	.7620	.9085	37.35	3.929	1.202	1.369	6.138

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2577.2	7166.4	42287.	3303.4
Stddev	5.9	13.6	70.	17.5
%RSD	.22957	.18976	.16560	.53006
#1	2577.2	7175.8	42221.	3288.4
#2	2583.1	7172.7	42279.	3299.2
#3	2571.2	7150.8	42360.	3322.6

Zoom In
Zoom Out

Sample Name: HighStd Acquired: 4/3/2015 7:26:19 Type: Cal
Method: 60102007_041712(v213) Mode: IR Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.2680	14.78	.8028	43.63	32.18	20.01	19.85	9.405	2.051	3.159
Stddev	.0005	.01	.0008	.06	.02	.02	.03	.008	.005	.005
%RSD	.1729	.1004	.0937	.1281	.0622	.1083	.1392	.0819	.2481	.1508
#1	.2682	14.79	.8020	43.65	32.21	20.02	19.85	9.400	2.053	3.164
#2	.2675	14.78	.8035	43.57	32.17	20.01	19.82	9.401	2.046	3.154
#3	.2684	14.76	.8029	43.68	32.17	19.98	19.88	9.414	2.055	3.158

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	9.367	13.47	1.700	11.44	4.784	43.77	5.335	4.965	.9763	.5813
Stddev	.009	.02	.003	.03	.007	.03	.004	.013	.0014	.0008
%RSD	.0923	.1266	.1637	.2851	.1451	.0657	.0668	.2571	.1466	.1397
#1	9.373	13.48	1.702	11.48	4.776	43.75	5.331	4.979	.9748	.5804
#2	9.357	13.46	1.697	11.42	4.786	43.75	5.336	4.954	.9776	.5818
#3	9.372	13.45	1.702	11.42	4.789	43.80	5.338	4.962	.9766	.5818

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1.323	1.776	73.87	7.562	2.376	2.728	12.01
Stddev	.001	.004	.11	.030	.006	.004	.02
%RSD	.0941	.2006	.1486	.3980	.2434	.1616	.1631
#1	1.322	1.772	73.95	7.527	2.382	2.732	12.00
#2	1.324	1.776	73.91	7.579	2.371	2.724	11.99
#3	1.323	1.779	73.74	7.580	2.373	2.728	12.03

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2401.0	6930.4	41300.	3277.9
Stddev	7.9	14.0	56.	12.9
%RSD	.33022	.20206	.13605	.39248
#1	2394.2	6931.9	41269.	3267.3
#2	2409.7	6943.7	41365.	3292.2
#3	2399.0	6915.8	41266.	3274.1

Zoom In Zoom Out

Sample Name: HSTD Acquired: 4/3/2015 7:30:01 Type: QC
Method: 60102007_041712(v213) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5049	80.47	4.040	3.992	3.987	79.95	3.996	3.991	4.039	4.061
Stddev	.0168	.22	.006	.008	.013	.29	.002	.003	.135	.143
%RSD	3.328	.2730	.1492	.2114	.3267	.3678	.0576	.0656	3.353	3.522
#1	.5243	80.33	4.035	3.987	3.984	79.73	3.994	3.988	4.195	4.226
#2	.4944	80.72	4.037	4.002	4.002	80.28	3.998	3.993	3.969	3.977
#3	.4961	80.35	4.046	3.987	3.976	79.84	3.996	3.992	3.953	3.980
Check ?	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass
Value										
Range										

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	79.73	81.14	79.74	4.021	4.007	80.43	3.981	4.027	4.033	4.032
Stddev	.22	.17	.15	.219	.003	.23	.004	.001	.006	.006
%RSD	.2739	.2105	.1851	5.438	.0695	.2896	.0921	.0234	.1420	.1516
#1	79.58	81.01	79.70	4.270	4.004	80.34	3.977	4.026	4.028	4.025
#2	79.98	81.33	79.91	3.929	4.010	80.69	3.983	4.028	4.031	4.037
#3	79.62	81.07	79.62	3.863	4.006	80.25	3.983	4.027	4.039	4.034
Check ?	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass
Value										
Range										

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	3.647	3.994	4.003	4.021	3.988	4.067	3.992
Stddev	.004	.005	.012	.160	.007	.137	.004
%RSD	.1144	.1179	.3037	3.983	.1870	3.372	.0884
#1	3.642	3.989	4.000	4.198	3.996	4.226	3.988
#2	3.649	3.997	4.017	3.977	3.985	3.991	3.995
#3	3.650	3.997	3.993	3.887	3.982	3.985	3.992
Check ?	None	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass
Value							
Range							

Zoom In Zoom Out

Sample Name: HSTD Acquired: 4/3/2015 7:30:01 Type: QC
Method: 60102007_041712(v213) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2404.0	6903.3	40907.	3305.8
Stddev	2.1	8.5	1138.	8.7
%RSD	.08707	.12270	2.7809	.26263
#1	2405.2	6911.9	39598.	3314.8
#2	2401.6	6894.9	41475.	3297.5
#3	2405.2	6903.0	41650.	3305.3

Zoom In Zoom Out

Sample Name: ICV Acquired: 4/3/2015 7:33:46 Type: QC
Method: 60102007_041712(v213) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2459	40.40	2.010	2.006	2.026	40.60	2.036	2.031	2.015	2.005
Stddev	.0006	.05	.003	.003	.003	.05	.003	.003	.002	.003
%RSD	.2253	.1186	.1664	.1330	.1447	.1318	.1496	.1551	.1118	.1361
#1	.2463	40.41	2.007	2.009	2.028	40.66	2.033	2.028	2.013	2.002
#2	.2462	40.44	2.014	2.004	2.027	40.60	2.038	2.033	2.018	2.008
#3	.2453	40.35	2.010	2.005	2.023	40.55	2.038	2.033	2.014	2.006
Check ?	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass
Value										
Range										

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	40.74	40.50	40.40	2.030	2.041	40.56	2.029	1.989	2.013	2.015
Stddev	.06	.09	.15	.005	.003	.09	.003	.001	.005	.002
%RSD	.1512	.2191	.3825	.2347	.1512	.2195	.1236	.0472	.2359	.0909
#1	40.81	40.60	40.44	2.035	2.044	40.65	2.027	1.989	2.016	2.017
#2	40.71	40.43	40.23	2.029	2.041	40.56	2.032	1.990	2.016	2.015
#3	40.70	40.46	40.53	2.025	2.038	40.47	2.029	1.988	2.008	2.013
Check ?	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass
Value										
Range										

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.065	2.025	2.015	2.025	2.017	1.994	2.033
Stddev	.001	.002	.002	.003	.006	.002	.004
%RSD	.0685	.1099	.1028	.1444	.2822	.0843	.2084
#1	2.064	2.025	2.017	2.028	2.011	1.993	2.028
#2	2.065	2.027	2.016	2.026	2.022	1.996	2.037
#3	2.067	2.023	2.013	2.022	2.019	1.992	2.033
Check ?	None	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass
Value							
Range							

Zoom In Zoom Out

Sample Name: ICV Acquired: 4/3/2015 7:33:46 Type: QC
Method: 60102007_041712(v213) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2578.0	7152.2	42753.	3321.7
Stddev	6.7	19.6	148.	9.8
%RSD	.26081	.27399	.34655	.29374
#1	2581.6	7170.6	42639.	3317.0
#2	2570.2	7131.6	42701.	3332.9
#3	2582.1	7154.5	42921.	3315.1

Zoom In Zoom Out

Sample Name: ICB Acquired: 4/3/2015 7:40:06 Type: QC
Method: 60102007_041712(v213) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0005	-.0078	.0001	.0003	.0000	.0070	.0000	.0000	.0001
Stddev	.0002	.0072	.0001	.0003	.0001	.0020	.000	.0001	.0001
%RSD	41.13	93.24	277.0	82.00	220.4	29.03	72.00	129.8	91.38
#1	-.0004	-.0023	.0000	.0002	.0000	.0048	.0000	.0000	.0001
#2	-.0007	-.0160	.0002	.0006	.0000	.0074	.0000	.0000	.0001
#3	-.0004	-.0050	-.0001	.0001	.0002	.0088	-.0001	.0001	.0000
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0003	-.0006	.0205	-.0013	.0000	F.0017	-.0305	-.0002	-.0007
Stddev	.0002	.0019	.0352	.0291	.0000	.0006	.0019	.0002	.0003
%RSD	60.07	347.8	172.0	2221.	989.8	33.71	6.231	132.4	43.11
#1	.0004	-.0020	.0470	.0116	.0000	.0023	-.0305	-.0004	-.0004
#2	.0004	.0016	-.0195	.0190	.0000	.0014	-.0286	.0001	-.0010
#3	.0001	-.0013	.0338	-.0346	.0000	.0013	-.0323	-.0002	-.0007
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit						.0010			
Low Limit						-.0010			

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0008	-.0014	.0015	.0002	.0001	.0003	.0005	.0000	.0000
Stddev	.0008	.0024	.0002	.0002	.0001	.0001	.0004	.000	.0000
%RSD	105.3	175.6	15.97	109.0	103.4	40.72	82.45	95.76	86.26
#1	.0015	-.0005	.0015	.0002	.0002	.0003	.0002	.0000	.0000
#2	.0010	-.0040	.0017	.0004	.0000	.0003	.0009	-.0001	.0000
#3	-.0001	.0005	.0012	.0000	.0000	.0001	.0004	.0000	.0000
Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Zoom In Zoom Out

Sample Name: ICB Acquired: 4/3/2015 7:40:06 Type: QC
Method: 60102007_041712(v213) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3033.5	7444.7	44580.	3319.1
Stddev	4.0	14.9	116.	10.3
%RSD	.13060	.20005	.26101	.31167
#1	3029.0	7430.9	44695.	3331.1
#2	3036.5	7460.5	44463.	3313.8
#3	3034.9	7442.8	44582.	3312.6

Zoom In Zoom Out

Sample Name: CRIA Acquired: 4/3/2015 7:47:53 Type: QC
Method: 60102007_041712(v213) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0095	.1954	.0099	.2046	.0054	1.049	.0053	.0542	.0104	.0264
Stddev	.0003	.0044	.0004	.0008	.0000	.009	.0001	.0001	.0003	.0005
%RSD	2.934	2.235	3.623	.3771	.4820	.8310	1.071	.1824	2.850	1.734
#1	.0097	.1924	.0101	.2052	.0054	1.055	.0053	.0543	.0106	.0267
#2	.0093	.1985	.0096	.2041	.0053	1.043	.0053	.0542	.0102	.0260
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value										
Range										

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.3044	10.37	5.179	.0156	.0496	10.38	.0437	.0048	.0041	.0093
Stddev	.0050	.06	.035	.0001	.0003	.07	.0001	.0001	.0002	.0008
%RSD	1.652	.5896	.6705	.6175	.6167	.6625	.3179	1.943	4.015	8.170
#1	.3080	10.42	5.203	.0155	.0498	10.43	.0436	.0049	.0040	.0087
#2	.3009	10.33	5.154	.0157	.0494	10.33	.0438	.0047	.0043	.0098
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value										
Range										

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0462	.0553	.0101	.0097	.0096	.0498	.0221
Stddev	.0004	.0004	.0002	.0001	.0002	.0002	.0000
%RSD	.9659	.7776	1.740	1.157	2.154	.3199	.1201
#1	.0465	.0550	.0103	.0096	.0097	.0499	.0221
#2	.0459	.0556	.0100	.0097	.0094	.0497	.0221
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Zoom In Zoom Out

Sample Name: CRIA Acquired: 4/3/2015 7:47:53 Type: QC
Method: 60102007_041712(v213) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2897.6	7324.2	44539.	3341.8
Stddev	4.3	9.7	64.	36.7
%RSD	.14698	.13224	.14307	1.0978
#1	2900.6	7331.1	44584.	3315.9
#2	2894.6	7317.4	44494.	3367.8

Zoom In Zoom Out

Sample Name: ICSA Acquired: 4/3/2015 7:51:29 Type: QC
Method: 60102007_041712(v214) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0002	505.6	-.0018	.0006	.0002	483.9	.0006	-.0002	.0007	.0002
Stddev	.0004	8.8	.0011	.0007	.0000	3.7	.0001	.0001	.0001	.0001
%RSD	214.4	1.749	57.77	128.8	5.126	.7645	14.60	40.15	12.11	70.62
#1	-.0001	514.8	-.0029	.0013	.0002	488.1	.0005	-.0002	.0006	.0003
#2	.0000	504.6	-.0019	-.0001	.0002	481.6	.0006	-.0003	.0007	.0001
#3	.0006	497.2	-.0008	.0004	.0002	481.9	.0006	-.0001	.0008	.0002
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	186.0	-.0055	496.0	.0000	-.0007	.1908	.0002	.0001	-.0008	-.0004
Stddev	.8	.0203	2.3	.000	.0001	.0058	.0001	.0026	.0012	.0017
%RSD	.4181	370.7	.4734	223.6	18.10	3.019	85.97	2935.	147.3	386.8
#1	186.7	-.0232	498.2	-.0001	-.0007	.1898	.0002	-.0028	-.0020	.0012
#2	186.1	-.0099	496.3	.0000	-.0009	.1970	.0000	.0008	-.0009	-.0022
#3	185.2	.0167	493.5	.0000	-.0006	.1856	.0002	.0023	.0004	-.0003
Check ?	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0502	.0007	.0001	.0007	.0006	-.0001	-.0017
Stddev	.0011	.0005	.0002	.0001	.0011	.0001	.0002
%RSD	2.137	80.06	198.1	20.80	198.1	43.36	11.08
#1	.0495	.0006	-.0001	.0006	-.0005	-.0001	-.0019
#2	.0515	.0002	.0002	.0005	.0004	-.0002	-.0017
#3	.0498	.0012	.0001	.0008	.0018	-.0001	-.0015
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Zoom In Zoom Out

Sample Name: ICSA Acquired: 4/3/2015 7:51:29 Type: QC
Method: 60102007_041712(v214) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2227.9	6471.7	37985.	3160.0
Stddev	1.3	8.9	234.	25.5
%RSD	.05927	.13681	.61536	.80791
#1	2229.4	6473.8	38001.	3141.2
#2	2226.9	6462.0	37744.	3149.7
#3	2227.4	6479.3	38210.	3189.0

Zoom In Zoom Out

Sample Name: ICSAB Acquired: 4/3/2015 7:55:33 Type: QC
Method: 60102007_041712(v214) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.9647	500.7	1.071	.5172	.5159	476.9	.9379	.4811	.4864	.5386
Stddev	.0027	2.3	.003	.0020	.0024	3.9	.0017	.0007	.0011	.0005
%RSD	.2756	.4680	.2470	.3927	.4559	.8176	.1763	.1377	.2360	.0876
#1	.9619	498.6	1.071	.5154	.5135	476.5	.9397	.4818	.4865	.5381
#2	.9671	500.2	1.069	.5168	.5160	473.1	.9364	.4805	.4852	.5390
#3	.9651	503.2	1.074	.5194	.5182	480.9	.9376	.4811	.4875	.5388
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value										
Range										

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	187.5	.0032	490.6	.4981	.9612	.1884	.9709	.9656	1.075	1.037
Stddev	.8	.0132	2.0	.0009	.0011	.0049	.0010	.0023	.001	.005
%RSD	.4097	411.7	.4103	.1795	.1151	2.614	.1017	.2366	.0722	.4708
#1	186.8	.0042	488.8	.4973	.9609	.1910	.9720	.9679	1.075	1.039
#2	187.3	.0159	490.3	.4979	.9603	.1827	.9705	.9656	1.074	1.040
#3	188.3	-.0105	492.8	.4991	.9625	.1914	.9701	.9633	1.076	1.031
Check ?	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value										
Range										

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1080	.9840	1.024	1.009	.9628	.4848	.9677
Stddev	.0006	.0004	.005	.002	.0029	.0002	.0016
%RSD	.5145	.0427	.5282	.1654	.3056	.0432	.1686
#1	.1077	.9842	1.018	1.008	.9645	.4846	.9695
#2	.1086	.9842	1.024	1.010	.9646	.4847	.9663
#3	.1076	.9835	1.029	1.011	.9594	.4850	.9675
Check ?	None	Chk Pass	None	None	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Zoom In Zoom Out

Sample Name: ICSAB Acquired: 4/3/2015 7:55:33 Type: QC
Method: 60102007_041712(v214) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2194.8	6429.0	38086.	3163.4
Stddev	4.9	9.8	162.	18.3
%RSD	.22246	.15181	.42407	.57918
#1	2190.3	6417.7	38147.	3166.0
#2	2194.1	6434.6	38207.	3180.3
#3	2200.0	6434.6	37902.	3143.9

Zoom In Zoom Out

Sample Name: CCV Acquired: 4/3/2015 8:01:42 Type: QC
Method: 60102007_041712(v214) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2478	40.44	2.075	2.040	2.032	40.53	2.069	2.069	1.994	2.013
Stddev	.0009	.15	.003	.008	.007	.17	.001	.002	.007	.002
%RSD	.3681	.3709	.1306	.3797	.3329	.4165	.0337	.0745	.3651	.0727
#1	.2489	40.60	2.072	2.049	2.040	40.71	2.068	2.067	1.992	2.012
#2	.2475	40.40	2.076	2.036	2.030	40.48	2.069	2.070	2.002	2.012
#3	.2471	40.31	2.078	2.035	2.027	40.39	2.070	2.070	1.989	2.014
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value Range										

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	40.93	41.33	40.91	2.033	2.058	41.05	2.089	1.998	2.066	2.078
Stddev	.13	.16	.13	.008	.007	.18	.002	.001	.001	.003
%RSD	.3199	.3888	.3144	.3856	.3204	.4409	.0997	.0446	.0654	.1549
#1	41.03	41.51	41.06	2.038	2.050	41.26	2.088	1.999	2.065	2.074
#2	40.78	41.23	40.80	2.036	2.060	40.96	2.088	1.997	2.067	2.080
#3	40.96	41.25	40.89	2.024	2.063	40.93	2.092	1.998	2.067	2.080
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value Range										

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.130	2.111	2.028	2.018	2.029	2.021	2.069
Stddev	.004	.005	.009	.008	.003	.002	.002
%RSD	.2109	.2490	.4359	.3792	.1661	.1023	.0738
#1	2.124	2.106	2.038	2.024	2.033	2.021	2.067
#2	2.132	2.111	2.027	2.020	2.026	2.024	2.069
#3	2.132	2.116	2.020	2.009	2.029	2.020	2.070
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Pass
Value Range							

Zoom In Zoom Out

Sample Name: CCV Acquired: 4/3/2015 8:01:42 Type: QC
Method: 60102007_041712(v214) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2537.5	6957.6	42577.	3233.4
Stddev	5.1	8.1	202.	27.7
%RSD	.20075	.11599	.47543	.85574
#1	2532.5	6951.0	42545.	3219.4
#2	2542.7	6966.6	42392.	3265.3
#3	2537.5	6955.1	42793.	3215.6

Zoom In Zoom Out

Sample Name: CCB Acquired: 4/3/2015 8:07:09 Type: QC
Method: 60102007_041712(v214) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0001	.0054	-.0006	.0002	.0001	.0044	.0001	.0002	.0003	.0001
Stddev	.0002	.0096	.0009	.0004	.0001	.0002	.0000	.0000	.0000	.0001
%RSD	261.8	178.7	155.3	201.2	63.78	5.263	36.86	13.40	14.67	79.46
#1	.0002	.0156	-.0010	.0006	.0000	.0042	.0002	.0002	.0002	.0003
#2	-.0002	.0040	.0004	-.0002	.0001	.0046	.0001	.0002	.0003	.0000
#3	-.0002	-.0035	-.0011	.0002	.0001	.0045	.0001	.0002	.0003	.0001
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0054	-.0363	.0052	.0002	.0001	-.0261	.0000	-.0001	-.0013	-.0014
Stddev	.0014	.0315	.0293	.0001	.0003	.0042	.0001	.0003	.0003	.0013
%RSD	25.48	86.68	567.8	32.91	301.9	15.98	2162.	473.9	22.46	95.16
#1	.0068	-.0296	.0321	.0001	.0005	-.0242	.0000	.0001	-.0013	-.0021
#2	.0041	-.0088	.0095	.0002	.0000	-.0309	-.0001	.0001	-.0015	-.0022
#3	.0052	-.0707	-.0261	.0002	-.0001	-.0232	.0001	-.0004	-.0010	.0001
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0027	-.0001	.0001	-.0001	.0005	.0001	.0001
Stddev	.0002	.0001	.0000	.0000	.0001	.0002	.0000
%RSD	9.254	112.4	33.32	41.95	23.08	295.8	39.11
#1	.0027	.0000	.0002	.0000	.0006	.0002	.0002
#2	.0024	-.0002	.0001	-.0001	.0006	.0000	.0001
#3	.0029	-.0001	.0002	-.0001	.0004	.0000	.0001
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Zoom In Zoom Out

Sample Name: CCB Acquired: 4/3/2015 8:07:09 Type: QC
Method: 60102007_041712(v214) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3003.7	7268.6	44998.	3310.7
Stddev	5.0	13.0	234.	13.1
%RSD	.16666	.17944	.51949	.39605
#1	3004.4	7267.7	45002.	3324.2
#2	2998.3	7256.0	45231.	3309.9
#3	3008.3	7282.0	44763.	3298.0

Zoom In Zoom Out

Sample Name: MP28744-MB1 Acquired: 4/3/2015 8:11:07 Type: QC
Method: 60102007_041712(v214) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000	.0129	-.0004	.0003	.0001	.0568	.0000	-.0001	.0001	.0003
Stddev	.0001	.0119	.0002	.0003	.0001	.0017	.000	.0001	.0001	.0002
%RSD	1114.	92.19	44.29	94.63	130.3	2.977	116.4	76.37	134.8	59.36
#1	-.0001	.0079	-.0006	.0000	.0001	.0572	.0000	.0000	.0000	.0002
#2	.0000	.0265	-.0002	.0005	.0001	.0583	-.0001	-.0001	.0001	.0005
#3	.0001	.0043	-.0004	.0005	.0000	.0550	.0000	-.0002	.0002	.0002
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0083	-.0400	.0262	.0003	-.0008	-.0362	-.0001	.0001	-.0021	.0009
Stddev	.0023	.0098	.0268	.0000	.0001	.0075	.0001	.0002	.0007	.0014
%RSD	27.71	24.59	102.3	14.24	15.56	20.81	127.5	241.1	31.44	155.8
#1	.0057	-.0514	-.0026	.0003	-.0006	-.0298	.0000	.0000	-.0014	-.0001
#2	.0091	-.0345	.0504	.0002	-.0009	-.0344	.0000	.0003	-.0027	.0003
#3	.0101	-.0341	.0309	.0003	-.0008	-.0445	-.0002	.0000	-.0021	.0025
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0238	.0004	.0003	-.0004	-.0008	-.0002	.0005
Stddev	.0001	.0002	.0000	.0000	.0009	.0001	.0000
%RSD	.6050	50.07	6.437	10.57	113.9	81.19	8.412
#1	.0237	.0005	.0003	-.0004	-.0004	-.0001	.0005
#2	.0239	.0003	.0002	-.0005	-.0002	-.0001	.0005
#3	.0236	.0002	.0003	-.0004	-.0019	-.0003	.0006
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Zoom In Zoom Out

Sample Name: MP28744-MB1 Acquired: 4/3/2015 8:11:07 Type: QC
Method: 60102007_041712(v214) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2969.8	7228.6	44995.	3267.4
Stddev	7.2	15.8	205.	31.9
%RSD	.24339	.21872	.45553	.97764
#1	2967.4	7216.6	45170.	3241.3
#2	2964.1	7222.6	45045.	3303.0
#3	2977.9	7246.5	44770.	3257.7

Zoom In Zoom Out

Sample Name: MP28744-B1 Acquired: 4/3/2015 8:15:18 Type: QC
Method: 60102007_041712(v214) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0493	27.58	2.090	2.094	.0527	25.80	.0521	.5261	.2070	.2590
Stddev	.0002	.13	.005	.006	.0002	.11	.0001	.0008	.0006	.0009
%RSD	.4298	.4804	.2315	.2729	.4680	.4282	.2002	.1596	.3112	.3350
#1	.0494	27.70	2.085	2.100	.0529	25.89	.0521	.5266	.2071	.2581
#2	.0495	27.60	2.090	2.095	.0528	25.85	.0519	.5251	.2063	.2599
#3	.0491	27.44	2.095	2.088	.0524	25.68	.0521	.5266	.2076	.2589
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value										
Range										

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	26.87	26.10	25.88	.5132	.5096	26.07	.5395	.4924	.5204	2.067
Stddev	.08	.13	.14	.0009	.0006	.10	.0013	.0006	.0017	.006
%RSD	.2888	.5003	.5589	.1843	.1210	.3909	.2498	.1127	.3172	.2917
#1	26.87	26.18	25.85	.5121	.5096	26.17	.5394	.4923	.5199	2.063
#2	26.95	26.17	26.04	.5140	.5090	26.07	.5382	.4919	.5191	2.063
#3	26.80	25.95	25.75	.5134	.5102	25.96	.5408	.4930	.5223	2.074
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value										
Range										

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0317	.5454	.5052	.4923	2.007	.5015	.5241
Stddev	.0002	.0025	.0024	.0008	.003	.0010	.0011
%RSD	.5506	.4607	.4846	.1552	.1601	.2033	.2024
#1	.0316	.5440	.5078	.4915	2.008	.5004	.5244
#2	.0316	.5440	.5049	.4930	2.003	.5024	.5229
#3	.0319	.5483	.5030	.4924	2.009	.5017	.5250
Check ?	None	Chk Pass	None	None	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Zoom In Zoom Out

Sample Name: MP28744-B1 Acquired: 4/3/2015 8:15:18 Type: QC
Method: 60102007_041712(v214) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2647.6	6998.0	42808.	3200.2
Stddev	.7	13.4	70.	23.9
%RSD	.02613	.19188	.16300	.74563
#1	2648.4	7002.0	42863.	3200.4
#2	2647.4	7009.0	42832.	3176.2
#3	2647.1	6983.1	42730.	3223.9

Zoom In
Zoom Out

Sample Name: FA22972-5 Acquired: 4/3/2015 8:19:16 Type: Unk
Method: 60102007_041712(v214) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	.0001	.0205	-.0005	.0413	.0000	6.042	.0002	.0034	.0010	.0010
Stddev	.0002	.0159	.0007	.0002	.000	.011	.0000	.0001	.0003	.0003
%RSD	241.8	77.76	134.8	.6046	4932.	.1876	20.00	2.054	29.18	33.14
#1	.0001	.0022	-.0001	.0412	.0000	6.048	.0001	.0033	.0014	.0013
#2	.0002	.0313	-.0001	.0412	.0000	6.029	.0002	.0033	.0009	.0010
#3	-.0001	.0279	-.0012	.0416	.0001	6.049	.0002	.0034	.0009	.0006

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	8.707	2.353	4.735	.1426	-.0009	3.954	.0015	-.0008	-.0014	.0009
Stddev	.025	.020	.045	.0002	.0003	.009	.0002	.0004	.0010	.0015
%RSD	.2833	.8569	.9456	.1594	31.79	.2275	10.21	59.67	66.64	176.7
#1	8.719	2.341	4.697	.1428	-.0006	3.948	.0017	-.0008	-.0019	.0004
#2	8.679	2.376	4.723	.1424	-.0010	3.965	.0014	-.0012	-.0020	-.0004
#3	8.724	2.341	4.785	.1428	-.0011	3.951	.0014	-.0003	-.0003	.0025

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	4.461	-.0006	.1282	.0003	-.0005	.0003	.0160
Stddev	.005	.0002	.0005	.0001	.0005	.0001	.0001
%RSD	.1164	39.13	.3611	20.78	102.6	45.08	.3270
#1	4.456	-.0006	.1280	.0002	.0001	.0001	.0160
#2	4.460	-.0009	.1279	.0004	-.0009	.0004	.0161
#3	4.466	-.0004	.1287	.0003	-.0007	.0003	.0159

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	2900.9	7121.8	44418.	3244.3
Stddev	4.1	12.5	98.	20.2
%RSD	.13989	.17538	.22170	.62288
#1	2897.2	7107.3	44305.	3232.5
#2	2905.2	7129.3	44482.	3232.7
#3	2900.3	7128.7	44468.	3267.6

Zoom In
Zoom Out

Sample Name: MP28744-D1 Acquired: 4/3/2015 8:23:21 Type: Unk
Method: 60102007_041712(v214) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	.0000	.0203	-.0008	.0417	.0000	6.110	.0002	.0033	.0012	.0011
Stddev	.000	.0035	.0008	.0000	.000	.027	.0000	.0001	.0001	.0003
%RSD	1380.	17.19	97.49	.0693	237.5	.4427	24.90	2.719	9.108	26.36
#1	.0002	.0212	-.0014	.0417	.0001	6.080	.0002	.0032	.0013	.0013
#2	-.0003	.0164	.0001	.0416	-.0001	6.116	.0001	.0032	.0012	.0007
#3	.0000	.0232	-.0011	.0416	-.0001	6.133	.0001	.0033	.0010	.0012

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	8.808	2.323	4.730	.1433	-.0011	4.019	.0012	-.0003	-.0016	.0002
Stddev	.029	.026	.012	.0005	.0001	.016	.0001	.0007	.0006	.0005
%RSD	.3291	1.119	.2557	.3421	6.374	.3930	11.29	235.2	39.83	262.2
#1	8.780	2.347	4.744	.1435	-.0012	4.001	.0012	-.0006	-.0020	.0004
#2	8.838	2.328	4.725	.1437	-.0011	4.031	.0011	.0005	-.0008	.0006
#3	8.806	2.295	4.721	.1427	-.0012	4.025	.0014	-.0007	-.0019	-.0004

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	4.475	-.0008	.1304	.0000	-.0004	.0002	.0142
Stddev	.002	.0001	.0002	.0001	.0002	.0002	.0001
%RSD	.0377	15.92	.1328	218.9	37.19	116.3	.3626
#1	4.476	-.0007	.1305	.0001	-.0006	.0000	.0142
#2	4.474	-.0009	.1304	.0001	-.0003	.0003	.0141
#3	4.473	-.0007	.1302	-.0001	-.0005	.0002	.0142

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	2900.7	7142.8	44604.	3338.5
Stddev	2.1	6.8	130.	39.1
%RSD	.07166	.09580	.29113	1.1725
#1	2900.6	7138.2	44623.	3383.7
#2	2898.7	7150.6	44466.	3316.8
#3	2902.8	7139.5	44724.	3315.1

Zoom In
Zoom Out

Sample Name: MP28744-SD1 Acquired: 4/3/2015 8:27:28 Type: Unk
Method: 60102007_041712(v214) Mode: CONC Corr. Factor: 5.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	.0003	-.0178	-.0028	.0424	.0003	6.523	-.0001	.0031	.0024	.0016
Stddev	.0005	.0729	.0030	.0019	.0002	.032	.0002	.0003	.0006	.0011
%RSD	174.1	408.9	106.5	4.565	87.13	.4951	255.1	10.61	24.17	70.96
#1	-.0002	-.1008	-.0058	.0409	.0000	6.537	-.0004	.0028	.0023	.0021
#2	.0008	.0113	-.0028	.0418	.0005	6.546	.0000	.0033	.0018	.0003
#3	.0003	.0360	.0002	.0446	.0004	6.486	.0001	.0034	.0029	.0024

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	8.746	2.066	4.612	.1434	-.0079	3.662	.0017	-.0005	-.0133	-.0064
Stddev	.032	.080	.232	.0002	.0005	.057	.0002	.0023	.0028	.0055
%RSD	.3686	3.853	5.032	.1611	5.699	1.558	10.59	498.7	20.75	86.73
#1	8.763	1.981	4.523	.1431	-.0078	3.596	.0015	-.0002	-.0105	-.0112
#2	8.709	2.078	4.437	.1435	-.0075	3.697	.0017	.0017	-.0134	-.0004
#3	8.766	2.139	4.875	.1435	-.0084	3.692	.0018	-.0028	-.0160	-.0075

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	4.340	-.0021	.1262	-.0027	-.0020	.0003	.0171
Stddev	.005	.0006	.0006	.0017	.0035	.0014	.0002
%RSD	.1103	29.48	.4689	62.66	175.4	463.7	1.430
#1	4.342	-.0025	.1268	-.0040	-.0056	.0017	.0173
#2	4.335	-.0014	.1262	-.0008	.0013	.0001	.0168
#3	4.344	-.0023	.1257	-.0033	-.0016	-.0010	.0170

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	3007.1	7320.9	45011.	3341.3
Stddev	4.2	14.7	158.	5.4
%RSD	.13894	.20131	.35031	.16257
#1	3003.2	7323.8	45132.	3335.0
#2	3011.5	7333.9	45068.	3343.8
#3	3006.5	7304.9	44833.	3345.0

Zoom In
Zoom Out

Sample Name: MP28744-PS1 Acquired: 4/3/2015 8:31:36 Type: Unk
Method: 60102007_041712(v214) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	.0476	2.578	.1090	.3033	.0533	11.12	.0540	.0577	.0531	.1070
Stddev	.0003	.024	.0004	.0006	.0002	.01	.0000	.0000	.0001	.0006
%RSD	.6382	.9127	.3970	.2110	.2891	.1171	.0188	.0361	.2219	.5770
#1	.0473	2.554	.1089	.3040	.0534	11.14	.0540	.0577	.0531	.1064
#2	.0475	2.601	.1095	.3028	.0533	11.12	.0540	.0577	.0532	.1069
#3	.0479	2.580	.1086	.3031	.0531	11.11	.0540	.0578	.0530	.1077

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	11.62	12.58	9.516	.1914	.1048	14.73	.1133	.0478	.1047	.1140
Stddev	.01	.03	.035	.0004	.0002	.02	.0002	.0005	.0008	.0010
%RSD	.1075	.2636	.3650	.2189	.2273	.1465	.1334	1.050	.7392	.8548
#1	11.63	12.58	9.478	.1911	.1049	14.76	.1133	.0478	.1056	.1129
#2	11.61	12.54	9.524	.1913	.1045	14.71	.1132	.0483	.1044	.1142
#3	11.63	12.61	9.547	.1919	.1048	14.73	.1135	.0473	.1041	.1148

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	4.351	.0536	.1779	.1017	.1010	.0518	.2868
Stddev	.005	.0002	.0003	.0002	.0004	.0002	.0000
%RSD	.1201	.3439	.1672	.1507	.4416	.3830	.0152
#1	4.348	.0538	.1780	.1019	.1007	.0520	.2869
#2	4.348	.0534	.1775	.1016	.1008	.0517	.2868
#3	4.357	.0535	.1780	.1016	.1015	.0517	.2868

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	2789.7	7074.9	43620.	3256.0
Stddev	5.8	10.0	96.	21.5
%RSD	.20666	.14191	.21955	.66163
#1	2783.6	7063.3	43561.	3272.5
#2	2790.3	7080.5	43730.	3231.7
#3	2795.1	7080.9	43568.	3263.9

Zoom In Zoom Out

Sample Name: MP28744-S1 Acquired: 4/3/2015 8:35:38 Type: Unk
Method: 60102007_041712(v214) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	.0493	27.44	2.171	2.154	.0536	31.49	.0529	.5379	.2054	.2665
Stddev	.0001	.11	.002	.013	.0005	.11	.0000	.0002	.0008	.0005
%RSD	.2131	.4046	.0842	.6132	.8755	.3376	.0479	.0287	.3659	.1727
#1	.0494	27.31	2.169	2.140	.0531	31.37	.0530	.5378	.2046	.2660
#2	.0492	27.47	2.173	2.156	.0536	31.53	.0529	.5381	.2056	.2666
#3	.0493	27.52	2.171	2.166	.0540	31.57	.0529	.5379	.2060	.2669

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	35.46	28.84	30.45	.6512	.5183	30.27	.5526	.4851	.5312	2.336
Stddev	.15	.12	.11	.0027	.0004	.10	.0008	.0009	.0008	.003
%RSD	.4262	.4055	.3748	.4095	.0765	.3384	.1451	.1932	.1565	.1128
#1	35.33	28.71	30.33	.6484	.5179	30.16	.5517	.4858	.5305	2.334
#2	35.42	28.88	30.46	.6537	.5187	30.29	.5530	.4840	.5310	2.335
#3	35.62	28.92	30.56	.6514	.5182	30.37	.5531	.4854	.5321	2.339

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	4.387	.5553	.6358	.4949	1.990	.5050	.5506
Stddev	.003	.0018	.0029	.0019	.005	.0017	.0005
%RSD	.0668	.3325	.4554	.3740	.2338	.3336	.0980
#1	4.386	.5536	.6327	.4928	1.994	.5033	.5500
#2	4.385	.5551	.6362	.4963	1.991	.5067	.5511
#3	4.390	.5572	.6384	.4956	1.985	.5051	.5508

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	2653.3	6926.7	43117.	3263.6
Stddev	3.4	4.0	247.	22.4
%RSD	.12945	.05795	.57231	.68511
#1	2649.6	6926.0	43301.	3239.8
#2	2656.3	6923.1	42837.	3267.0
#3	2654.1	6931.0	43214.	3284.2

Zoom In Zoom Out

Sample Name: MP28744-S2 Acquired: 4/3/2015 8:39:34 Type: Unk
Method: 60102007_041712(v214) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	.0487	27.33	2.166	2.144	.0536	31.46	.0531	.5375	.2057	.2645
Stddev	.0006	.14	.005	.006	.0001	.18	.0001	.0005	.0007	.0009
%RSD	1.233	.5237	.2182	.2797	.2659	.5687	.1774	.0889	.3400	.3314
#1	.0492	27.40	2.169	2.149	.0536	31.52	.0531	.5381	.2064	.2636
#2	.0489	27.16	2.169	2.138	.0535	31.26	.0531	.5373	.2058	.2647
#3	.0480	27.42	2.161	2.147	.0538	31.61	.0530	.5372	.2050	.2653

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	35.42	28.94	30.39	.6497	.5171	30.16	.5504	.4867	.5307	2.331
Stddev	.16	.08	.12	.0024	.0003	.16	.0004	.0010	.0006	.003
%RSD	.4611	.2596	.3811	.3716	.0563	.5252	.0676	.1989	.1106	.1445
#1	35.50	28.90	30.40	.6525	.5174	30.23	.5507	.4864	.5311	2.335
#2	35.23	28.90	30.28	.6484	.5171	29.98	.5506	.4878	.5300	2.328
#3	35.53	29.03	30.51	.6482	.5168	30.27	.5500	.4859	.5309	2.331

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	4.413	.5536	.6375	.4936	1.993	.5062	.5512
Stddev	.007	.0011	.0030	.0016	.002	.0003	.0008
%RSD	.1503	.1943	.4653	.3309	.1049	.0541	.1371
#1	4.421	.5548	.6385	.4955	1.992	.5064	.5518
#2	4.411	.5532	.6342	.4929	1.992	.5062	.5515
#3	4.409	.5528	.6399	.4925	1.995	.5059	.5504

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	2641.3	6920.6	43064.	3285.8
Stddev	4.2	11.0	101.	16.6
%RSD	.16085	.15950	.23494	.50410
#1	2637.3	6912.3	42953.	3301.1
#2	2640.9	6916.3	43150.	3287.9
#3	2645.7	6933.1	43089.	3268.2

Zoom In Zoom Out

Sample Name: FA22972-1 Acquired: 4/3/2015 8:43:31 Type: Unk
Method: 60102007_041712(v214) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)
Avg	.0003	.0202	.0583	.3990	.0001	104.4	.0006	.0037	.0102
Stddev	.0002	.0177	.0004	.0005	.0000	.5	.0001	.0001	.0004
%RSD	62.73	87.29	.6758	.1202	33.89	.4617	9.375	2.881	3.579
#1	.0002	.0045	.0581	.3991	.0001	104.5	.0006	.0038	.0102
#2	.0005	.0393	.0581	.3994	.0002	104.8	.0006	.0036	.0105
#3	.0001	.0168	.0588	.3985	.0001	103.9	.0007	.0037	.0098

Elem	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
IS Ref	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)
Avg	.0024	74.96	14.78	78.92	1.983	-.0008	F148.6	.0008	-.0034
Stddev	.0002	.27	.05	.20	.007	.0002	.6	.0002	.0003
%RSD	6.549	.3609	.3516	.2514	.3637	22.04	.3737	21.17	8.056
#1	.0024	74.93	14.82	78.79	1.986	-.0007	148.6	.0010	-.0032
#2	.0023	75.24	14.79	79.15	1.988	-.0008	149.1	.0006	-.0037
#3	.0026	74.70	14.72	78.82	1.975	-.0011	148.0	.0008	-.0032

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	-.0018	.0031	20.03	.0000	.7791	.0035	.0007	.0069	.0066
Stddev	.0010	.0022	.03	.000	.0033	.0001	.0007	.0001	.0000
%RSD	57.04	71.27	.1593	1912.	.4298	2.252	94.40	1.631	.6188
#1	-.0024	.0006	20.07	.0000	.7801	.0036	.0015	.0070	.0066
#2	-.0006	.0038	20.01	-.0001	.7818	.0034	.0003	.0069	.0067
#3	-.0024	.0048	20.02	.0001	.7753	.0034	.0004	.0068	.0066

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	2488.1	6616.8	41148.	3268.7
Stddev	2.0	17.9	224.	10.1
%RSD	.08084	.27078	.54516	.30895
#1	2487.2	6598.3	41002.	3258.2
#2	2486.7	6634.0	41036.	3269.5
#3	2490.4	6618.3	41406.	3278.4

Zoom In Zoom Out

Sample Name: FA22972-2 Acquired: 4/3/2015 8:47:37 Type: Unk
Method: 60102007_041712(v214) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)
Avg	.0001	.0153	-.0001	.1260	.0000	25.35	.0000	.0041	.0023
Stddev	.0005	.0034	.0003	.0004	.000	.06	.000	.0001	.0001
%RSD	809.2	21.98	321.8	.3508	3188.	.2180	235.9	1.935	3.301
#1	.0006	.0114	.0002	.1255	.0000	25.40	.0000	.0040	.0022
#2	-.0003	.0176	-.0003	.1264	.0000	25.36	.0000	.0040	.0023
#3	-.0001	.0167	-.0001	.1261	.0001	25.30	-.0001	.0042	.0024

Elem	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
IS Ref	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)
Avg	.0015	8.142	5.797	4.385	.0720	-.0007	F236.7	.0013	-.0024
Stddev	.0001	.014	.018	.013	.0001	.0001	2.9	.0001	.0004
%RSD	4.766	.1741	.3166	.2946	.1829	15.34	1.242	8.894	16.35
#1	.0014	8.148	5.806	4.400	.0719	-.0005	238.5	.0012	-.0022
#2	.0014	8.152	5.809	4.377	.0720	-.0007	238.3	.0014	-.0029
#3	.0015	8.126	5.776	4.379	.0721	-.0007	233.3	.0013	-.0022

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	-.0021	-.0010	4.578	-.0010	1.188	.0008	-.0005	.0000	.0080
Stddev	.0006	.0010	.004	.0002	.001	.0001	.0008	.0001	.0001
%RSD	26.18	109.0	.0974	25.18	.1164	7.309	144.6	421.9	1.362
#1	-.0024	-.0018	4.578	-.0012	1.189	.0009	-.0005	.0002	.0079
#2	-.0025	-.0013	4.573	-.0009	1.186	.0008	.0002	-.0001	.0079
#3	-.0015	.0002	4.582	-.0007	1.188	.0007	-.0014	.0000	.0081

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	2511.8	6805.7	41543.	3272.7
Stddev	6.5	18.3	58.	26.5
%RSD	.25778	.26821	.13953	.81077
#1	2507.1	6798.5	41610.	3265.4
#2	2519.2	6826.5	41507.	3250.7
#3	2509.2	6792.2	41513.	3302.2

Zoom In
Zoom Out

Sample Name: CCV Acquired: 4/3/2015 8:51:53 Type: QC
Method: 60102007_041712(v214) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2474	40.18	2.094	2.040	2.028	40.20	2.078	2.083	1.983	2.021
Stddev	.0008	.16	.003	.007	.010	.26	.003	.003	.003	.003
%RSD	.3221	.3995	.1617	.3529	.5145	.6384	.1487	.1403	.1405	.1630
#1	.2481	40.22	2.098	2.045	2.032	40.34	2.080	2.085	1.981	2.017
#2	.2475	40.32	2.091	2.044	2.035	40.36	2.074	2.080	1.986	2.024
#3	.2465	40.01	2.093	2.032	2.016	39.91	2.078	2.083	1.981	2.022
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value										
Range										

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	40.65	41.53	40.63	2.014	2.068	40.73	2.102	1.990	2.097	2.094
Stddev	.27	.16	.27	.001	.007	.20	.004	.004	.004	.004
%RSD	.6569	.3852	.6737	.0540	.3326	.4980	.1659	.2276	.2113	.1900
#1	40.82	41.56	40.87	2.014	2.062	40.80	2.106	1.994	2.100	2.098
#2	40.79	41.67	40.69	2.015	2.067	40.89	2.099	1.990	2.092	2.090
#3	40.34	41.35	40.33	2.013	2.076	40.50	2.101	1.985	2.098	2.095
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value										
Range										

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.157	2.133	2.026	2.001	2.032	2.029	2.071
Stddev	.003	.004	.005	.001	.001	.004	.003
%RSD	.1570	.1922	.2525	.0712	.0697	.1713	.1654
#1	2.156	2.135	2.027	2.000	2.034	2.031	2.075
#2	2.154	2.128	2.031	2.002	2.032	2.030	2.068
#3	2.161	2.135	2.021	2.001	2.031	2.025	2.070
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Zoom In
Zoom Out

Sample Name: CCV Acquired: 4/3/2015 8:51:53 Type: QC
Method: 60102007_041712(v214) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2547.3	6940.1	42946.	3288.3
Stddev	.5	8.4	176.	52.1
%RSD	.01949	.12067	.40983	1.5852
#1	2546.8	6934.2	42980.	3246.0
#2	2547.7	6949.7	42755.	3272.3
#3	2547.5	6936.4	43102.	3346.5

Zoom In
Zoom Out

Sample Name: CCB Acquired: 4/3/2015 8:55:49 Type: QC
Method: 60102007_041712(v214) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0001	-.0162	-.0002	.0002	.0002	.0055	.0002	.0002	.0003
Stddev	.0004	.0135	.0002	.0001	.0001	.0030	.0000	.0001	.0003
%RSD	402.5	83.04	139.1	28.37	31.09	55.20	25.77	46.18	110.7
#1	-.0003	-.0060	-.0001	.0002	.0002	.0035	.0002	.0002	.0005
#2	.0004	-.0315	.0000	.0003	.0001	.0090	.0002	.0003	-.0001
#3	-.0004	-.0112	-.0004	.0002	.0003	.0040	.0001	.0001	.0004
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0001	.0176	.0260	.0120	.0002	F.0023	.0048	.0002	-.0003
Stddev	.0001	.0023	.0077	.0290	.0000	.0011	.0108	.0001	.0007
%RSD	71.66	13.12	29.71	240.4	9.774	48.15	223.0	54.43	229.0
#1	.0001	.0199	.0172	-.0047	.0002	.0034	.0107	.0003	-.0010
#2	.0001	.0176	.0317	.0455	.0002	.0023	.0114	.0001	.0003
#3	.0002	.0153	.0291	-.0047	.0002	.0012	-.0076	.0001	-.0001
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit						.0010			
Low Limit						-.0010			

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0015	-.0005	.0044	.0004	.0002	.0007	.0008	.0002	.0002
Stddev	.0003	.0013	.0003	.0003	.0001	.0001	.0005	.0002	.0000
%RSD	17.60	246.6	7.891	63.42	36.02	10.37	63.68	109.7	24.60
#1	-.0014	.0009	.0047	.0005	.0002	.0008	.0003	.0002	.0002
#2	-.0018	-.0008	.0045	.0006	.0003	.0007	.0007	.0000	.0002
#3	-.0014	-.0016	.0040	.0001	.0002	.0007	.0014	.0004	.0001
Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Zoom In
Zoom Out

Sample Name: CCB Acquired: 4/3/2015 8:55:49 Type: QC
Method: 60102007_041712(v214) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3015.1	7249.4	45567.	3346.9
Stddev	7.6	9.4	226.	13.8
%RSD	.25222	.12997	.49491	.41247
#1	3012.2	7244.8	45770.	3350.8
#2	3009.3	7243.1	45607.	3331.6
#3	3023.7	7260.2	45324.	3358.3

Zoom In Zoom Out

Sample Name: FA22972-3 Acquired: 4/3/2015 9:00:00 Type: Unk
Method: 60102007_041712(v214) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)
Avg	.0004	.0048	-.0008	.1241	.0001	24.21	.0000	.0009	.0006
Stddev	.0003	.0025	.0008	.0007	.0001	.12	.0000	.0001	.0002
%RSD	84.01	52.34	97.98	.5604	129.6	.4974	119.2	10.91	36.38
#1	.0008	.0068	-.0015	.1248	.0000	24.28	.0000	.0009	.0004
#2	.0004	.0020	.0000	.1234	.0000	24.07	.0000	.0008	.0008
#3	.0001	.0056	-.0009	.1241	.0001	24.28	.0000	.0010	.0006

Elem	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
IS Ref	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)
Avg	.0009	8.186	5.773	4.362	.0680	-.0003	F237.3	.0002	-.0012
Stddev	.0003	.040	.059	.047	.0001	.0003	3.2	.0001	.0002
%RSD	35.14	.4888	1.025	1.074	.2032	91.62	1.334	55.35	13.15
#1	.0013	8.208	5.755	4.386	.0679	.0000	240.9	.0001	-.0011
#2	.0007	8.140	5.726	4.308	.0681	-.0003	234.8	.0002	-.0014
#3	.0008	8.211	5.840	4.392	.0681	-.0006	236.2	.0002	-.0012

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	-.0016	.0005	4.451	-.0009	1.177	.0007	-.0011	.0001	.0086
Stddev	.0005	.0013	.007	.0001	.006	.0001	.0003	.0001	.0000
%RSD	33.26	290.0	.1548	9.088	.5404	15.61	27.46	107.2	.3781
#1	-.0023	.0018	4.459	-.0009	1.181	.0007	-.0008	.0001	.0085
#2	-.0015	.0005	4.451	-.0008	1.170	.0006	-.0014	.0000	.0086
#3	-.0012	-.0009	4.445	-.0009	1.179	.0008	-.0011	.0001	.0086

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	2514.1	6800.4	41389.	3253.7
Stddev	.9	6.4	128.	17.6
%RSD	.03497	.09411	.30970	.54153
#1	2513.2	6793.1	41373.	3233.4
#2	2514.1	6803.6	41269.	3264.4
#3	2514.9	6804.6	41524.	3263.4

Zoom In Zoom Out

Sample Name: FA22972-4 Acquired: 4/3/2015 9:04:16 Type: Unk
Method: 60102007_041712(v214) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)
Avg	.0020	.0103	-.0008	.0260	.0001	168.6	.0003	.0260	.0105
Stddev	.0002	.0075	.0001	.0003	.0000	.2	.0000	.0001	.0002
%RSD	9.482	72.60	7.250	1.062	69.18	.1249	.5029	.2032	2.322
#1	.0022	.0048	-.0009	.0262	.0000	168.5	.0003	.0260	.0105
#2	.0019	.0188	-.0008	.0257	.0000	168.5	.0003	.0260	.0107
#3	.0018	.0073	-.0008	.0262	.0001	168.9	.0003	.0261	.0102

Elem	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
IS Ref	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)
Avg	.0010	.1571	12.18	96.04	F25.88	-.0027	64.59	.0055	.0004
Stddev	.0003	.0011	.03	.24	.14	.0001	.08	.0001	.0001
%RSD	36.24	.6891	.2094	.2500	.5528	3.525	.1240	1.408	36.43
#1	.0010	.1583	12.20	95.78	25.90	-.0026	64.56	.0054	.0003
#2	.0013	.1566	12.19	96.09	25.73	-.0028	64.52	.0055	.0003
#3	.0006	.1563	12.15	96.25	26.02	-.0027	64.68	.0056	.0005

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	-.0024	.0046	1.688	-.0012	.5853	.0012	.0152	.0047	.0123
Stddev	.0006	.0026	.002	.0001	.0001	.0001	.0002	.0003	.0000
%RSD	26.50	55.75	.0869	10.44	.0142	8.830	1.164	6.732	.3105
#1	-.0031	.0043	1.688	-.0012	.5853	.0012	.0150	.0049	.0124
#2	-.0018	.0022	1.687	-.0011	.5852	.0013	.0154	.0043	.0124
#3	-.0023	.0073	1.690	-.0014	.5853	.0011	.0151	.0048	.0123

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	2489.8	6708.4	41167.	3256.5
Stddev	6.1	2.4	277.	6.4
%RSD	.24563	.03516	.67245	.19554
#1	2482.9	6705.6	41223.	3262.3
#2	2491.7	6709.7	41411.	3257.6
#3	2494.7	6709.7	40866.	3249.7

Zoom In Zoom Out

Sample Name: FA22972-6 Acquired: 4/3/2015 9:08:30 Type: Unk
Method: 60102007_041712(v214) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	.0001	-.0121	-.0007	.0004	.0000	.0367	.0000	.0000	.0000	.0002
Stddev	.0002	.0135	.0006	.0002	.000	.0017	.000	.0001	.0001	.0001
%RSD	228.5	112.3	85.66	64.79	227.3	4.580	50.66	209.2	274.6	42.62
#1	-.0002	.0028	-.0002	.0002	.0000	.0357	.0000	.0000	.0001	.0002
#2	.0002	-.0236	-.0005	.0007	.0000	.0386	.0000	.0000	.0001	.0001
#3	.0002	-.0154	-.0013	.0003	-.0001	.0358	.0000	.0001	-.0001	.0002

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	-.0123	-.0122	.0158	.0014	-.0014	.0758	-.0001	.0005	-.0020	-.0017
Stddev	.0021	.0209	.0168	.0002	.0000	.0043	.0001	.0004	.0004	.0009
%RSD	17.26	170.9	106.4	10.77	2.095	5.625	130.1	89.06	21.06	51.30
#1	-.0140	-.0361	.0055	.0015	-.0015	.0799	-.0002	.0000	-.0021	-.0008
#2	-.0131	-.0033	.0352	.0014	-.0014	.0714	-.0002	.0008	-.0023	-.0018
#3	-.0099	.0028	.0068	.0012	-.0014	.0762	.0001	.0006	-.0015	-.0025

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	.0288	-.0008	.0002	-.0007	-.0013	.0000	.0071
Stddev	.0005	.0002	.0000	.0001	.0006	.000	.0001
%RSD	1.777	18.32	10.41	9.373	46.46	1087.	.9933
#1	.0287	-.0008	.0002	-.0007	-.0011	.0000	.0070
#2	.0284	-.0007	.0002	-.0008	-.0008	-.0004	.0071
#3	.0294	-.0010	.0003	-.0008	-.0020	.0003	.0071

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	2972.0	7130.1	44975.	3276.4
Stddev	3.3	2.0	55.	34.3
%RSD	.11091	.02788	.12140	1.0474
#1	2968.9	7128.2	45018.	3281.0
#2	2971.7	7132.1	44914.	3240.1
#3	2975.5	7130.1	44993.	3308.3

Zoom In Zoom Out

Sample Name: FA22972-7 Acquired: 4/3/2015 9:12:41 Type: Unk
Method: 60102007_041712(v214) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)
Avg	.0004	.0170	.0580	.2190	.0000	104.6	.0007	.0037	.0099
Stddev	.0002	.0021	.0008	.0004	.0000	.1	.0000	.0001	.0001
%RSD	57.91	12.33	1.326	.1747	122.2	.0742	6.378	3.441	.6482
#1	.0006	.0189	.0571	.2186	.0000	104.6	.0007	.0035	.0098
#2	.0004	.0148	.0581	.2194	.0001	104.7	.0007	.0038	.0099
#3	.0002	.0173	.0586	.2189	.0000	104.6	.0008	.0036	.0100

Elem	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
IS Ref	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)
Avg	.0028	74.41	15.02	79.61	1.986	-.0014	F148.7	.0007	-.0033
Stddev	.0002	.03	.03	.14	.006	.0001	.2	.0001	.0004
%RSD	5.760	.0367	.1783	.1741	.2918	3.945	.1019	21.05	11.33
#1	.0027	74.40	15.05	79.66	1.981	-.0013	148.8	.0007	-.0030
#2	.0030	74.44	15.00	79.45	1.985	-.0014	148.8	.0006	-.0032
#3	.0027	74.39	15.01	79.71	1.992	-.0014	148.6	.0009	-.0037

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	-.0042	.0026	20.44	-.0007	.7701	.0033	.0001	.0065	.0092
Stddev	.0004	.0010	.02	.0001	.0021	.0002	.0008	.0002	.0000
%RSD	9.788	40.36	.0856	16.16	.2742	4.936	1376.	2.541	.1913
#1	-.0038	.0020	20.42	-.0007	.7719	.0034	.0008	.0065	.0093
#2	-.0042	.0038	20.44	-.0008	.7706	.0031	-.0008	.0063	.0092
#3	-.0046	.0019	20.45	-.0006	.7677	.0034	.0002	.0067	.0093

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	2477.0	6634.0	41584.	3282.3
Stddev	1.8	.1	153.	12.8
%RSD	.07461	.00135	.36695	.39091
#1	2475.0	6634.1	41416.	3294.3
#2	2477.7	6634.0	41715.	3283.9
#3	2478.5	6633.9	41620.	3268.8

Zoom In Zoom Out

Sample Name: FA22972-8 Acquired: 4/3/2015 9:16:46 Type: Unk
Method: 60102007_041712(v214) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)
Avg	.0001	.0322	.0072	.1015	.0001	30.00	.0002	.0025	.0008
Stddev	.0001	.0068	.0004	.0007	.0000	.07	.0001	.0000	.0003
%RSD	147.3	21.19	5.972	.6824	32.21	.2419	29.60	1.868	32.18
#1	.0000	.0298	.0067	.1017	.0001	30.01	.0002	.0024	.0005
#2	.0000	.0399	.0073	.1020	.0001	30.07	.0001	.0025	.0009
#3	.0002	.0269	.0075	.1007	.0002	29.93	.0002	.0025	.0010

Elem	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
IS Ref	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)
Avg	.0011	17.82	6.854	9.339	.1756	-.0016	F114.0	.0003	-.0017
Stddev	.0002	.11	.032	.049	.0008	.0001	.4	.0002	.0004
%RSD	19.78	.6428	.4593	.5235	.4385	3.433	.3427	74.71	24.82
#1	.0009	17.82	6.830	9.389	.1765	-.0017	114.1	.0006	-.0022
#2	.0013	17.94	6.890	9.291	.1750	-.0016	114.4	.0003	-.0018
#3	.0013	17.71	6.843	9.336	.1755	-.0017	113.6	.0001	-.0013

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	-.0026	-.0009	9.782	-.0006	.9038	.0012	-.0008	.0002	.0055
Stddev	.0003	.0017	.006	.0001	.0038	.0001	.0006	.0002	.0000
%RSD	10.94	179.6	.0622	19.82	.4251	5.479	77.98	110.5	.5729
#1	-.0024	.0008	9.789	-.0007	.9050	.0012	-.0003	.0001	.0055
#2	-.0029	-.0011	9.778	-.0007	.9069	.0011	-.0005	.0000	.0054
#3	-.0024	-.0025	9.780	-.0005	.8995	.0012	-.0015	.0003	.0055

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	2614.5	6860.8	42953.	3290.6
Stddev	4.8	6.5	188.	5.8
%RSD	.18384	.09425	.43786	.17626
#1	2617.4	6858.7	42780.	3294.9
#2	2609.0	6855.7	43153.	3293.0
#3	2617.2	6868.1	42926.	3284.0

Zoom In Zoom Out

Sample Name: FA22972-9 Acquired: 4/3/2015 9:20:53 Type: Unk
Method: 60102007_041712(v214) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	.0003	.0188	.0121	.1173	.0001	73.63	.0004	.0121	.0013	.0015
Stddev	.0001	.0081	.0007	.0002	.0001	.20	.0000	.0001	.0002	.0002
%RSD	19.44	42.93	5.623	.1871	69.66	.2751	7.387	.8224	18.55	12.05
#1	.0003	.0281	.0127	.1171	.0001	73.46	.0004	.0121	.0013	.0016
#2	.0003	.0135	.0114	.1176	.0000	73.58	.0005	.0122	.0010	.0013
#3	.0004	.0149	.0121	.1172	.0001	73.85	.0004	.0121	.0014	.0017

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	47.26	8.524	68.96	.6996	-.0011	70.29	.0066	-.0025	-.0035	.0000
Stddev	.14	.011	.22	.0016	.0000	.22	.0002	.0003	.0009	.000
%RSD	.2900	.1310	.3187	.2241	4.073	.3061	3.219	12.59	26.17	1435.
#1	47.17	8.526	68.74	.6979	-.0012	70.07	.0064	-.0023	-.0045	-.0002
#2	47.20	8.512	68.95	.7009	-.0011	70.29	.0068	-.0029	-.0027	.0000
#3	47.42	8.534	69.18	.7001	-.0011	70.51	.0068	-.0024	-.0034	.0002

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	4.022	-.0009	.5002	.0011	-.0002	.0011	.0074
Stddev	.010	.0001	.0009	.0000	.0002	.0004	.0000
%RSD	.2410	12.20	.1875	.0501	83.24	37.99	.4316
#1	4.034	-.0009	.4991	.0011	-.0001	.0009	.0074
#2	4.017	-.0008	.5008	.0011	-.0001	.0008	.0073
#3	4.017	-.0010	.5006	.0011	-.0005	.0015	.0074

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	2576.5	6761.4	42190.	3295.4
Stddev	4.1	12.4	144.	23.9
%RSD	.15728	.18372	.34092	.72379
#1	2571.8	6749.9	42354.	3302.6
#2	2578.6	6774.6	42129.	3314.8
#3	2579.0	6759.6	42086.	3268.7

Zoom In Zoom Out

Sample Name: FA22972-10 Acquired: 4/3/2015 9:24:59 Type: Unk
Method: 60102007_041712(v214) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	-.0002	.0103	-.0009	.0001	.0000	.0871	.0000	-.0001	.0001	.0003
Stddev	.0002	.0044	.0004	.0001	.0001	.0010	.000	.0000	.0002	.0003
%RSD	112.2	42.33	40.03	144.0	1274.	1.100	171.8	33.00	163.7	104.9
#1	-.0002	.0152	-.0006	.0002	.0000	.0861	-.0001	-.0001	.0002	.0004
#2	.0000	.0089	-.0008	-.0001	.0001	.0875	.0000	-.0001	.0002	.0004
#3	-.0004	.0068	-.0013	.0002	-.0001	.0879	.0000	-.0001	-.0001	-.0001

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	.0333	-.0124	.0153	.0005	-.0014	.0872	.0001	.0002	-.0025	.0006
Stddev	.0075	.0226	.0354	.0000	.0001	.0028	.0000	.0004	.0009	.0013
%RSD	22.44	181.7	230.9	5.713	8.012	3.176	21.07	229.3	35.91	228.6
#1	.0411	-.0328	.0177	.0005	-.0013	.0900	.0001	.0000	-.0024	.0008
#2	.0324	.0118	.0494	.0005	-.0014	.0844	.0001	-.0001	-.0035	.0017
#3	.0263	-.0163	-.0212	.0005	-.0015	.0871	.0001	.0006	-.0017	-.0008

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	.0456	-.0004	.0007	-.0004	-.0009	-.0002	.0069
Stddev	.0004	.0002	.0001	.0000	.0001	.0002	.0000
%RSD	.9434	57.92	17.40	5.750	13.83	120.5	.1435
#1	.0453	-.0001	.0006	-.0004	-.0008	-.0001	.0069
#2	.0461	-.0005	.0007	-.0004	-.0009	.0000	.0069
#3	.0454	-.0006	.0008	-.0005	-.0011	-.0004	.0069

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	2993.6	7142.8	45416.	3337.9
Stddev	4.1	3.3	95.	5.2
%RSD	.13773	.04583	.20815	.15666
#1	2989.4	7141.8	45395.	3331.9
#2	2997.7	7146.5	45520.	3341.7
#3	2993.5	7140.2	45334.	3340.1

Zoom In Zoom Out

Sample Name: FA23062-1 Acquired: 4/3/2015 9:29:10 Type: Unk
Method: 60102007_041712(v214) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	.0004	.1993	.0012	.1611	.0001	56.04	.0004	.0038	.0094	.0025
Stddev	.0003	.0210	.0003	.0004	.0001	.11	.0000	.0001	.0002	.0001
%RSD	73.87	10.54	26.13	.2418	249.4	.1878	4.133	2.732	1.838	4.812
#1	.0001	.1832	.0012	.1614	-.0001	56.12	.0004	.0037	.0096	.0024
#2	.0007	.2231	.0009	.1613	.0002	56.08	.0004	.0039	.0093	.0026
#3	.0003	.1915	.0015	.1607	.0001	55.92	.0004	.0037	.0094	.0026

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	38.51	6.018	11.81	.2444	-.0003	32.56	.0056	-.0021	-.0043	.0003
Stddev	.05	.061	.03	.0010	.0001	.12	.0002	.0003	.0005	.0013
%RSD	.1188	1.019	.2294	.4200	19.79	.3630	3.564	15.39	12.90	410.0
#1	38.54	5.982	11.80	.2446	-.0004	32.57	.0055	-.0019	-.0043	.0006
#2	38.52	6.088	11.79	.2453	-.0004	32.67	.0058	-.0019	-.0037	-.0011
#3	38.45	5.983	11.84	.2433	-.0003	32.43	.0055	-.0025	-.0048	.0015

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	4.214	-.0008	.6525	.0083	-.0001	.0007	.0111
Stddev	.005	.0001	.0019	.0004	.0002	.0003	.0001
%RSD	.1082	16.93	.2942	5.291	199.2	39.28	.5296
#1	4.208	-.0009	.6532	.0080	-.0002	.0009	.0111
#2	4.217	-.0007	.6540	.0088	-.0003	.0009	.0112
#3	4.215	-.0007	.6503	.0082	.0002	.0004	.0111

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	2689.0	6850.2	43475.	3331.4
Stddev	4.6	4.4	172.	15.2
%RSD	.17128	.06436	.39589	.45511
#1	2684.0	6852.7	43472.	3319.8
#2	2690.1	6845.1	43305.	3325.9
#3	2693.0	6852.7	43649.	3348.6

Zoom In Zoom Out

Sample Name: FA23062-2 Acquired: 4/3/2015 9:33:16 Type: Unk
Method: 60102007_041712(v214) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	.0004	.0065	.0002	.0457	.0001	16.57	.0000	.0026	.0008	.0004
Stddev	.0003	.0102	.0005	.0000	.0000	.07	.0000	.0001	.0003	.0003
%RSD	70.00	158.4	215.8	.0175	30.68	.4282	94.92	2.532	32.62	83.99
#1	.0006	.0123	.0006	.0457	.0001	16.50	.0000	.0025	.0011	.0008
#2	.0001	.0124	.0003	.0457	.0001	16.58	.0000	.0025	.0005	.0002
#3	.0006	-.0054	-.0003	.0457	.0002	16.64	.0001	.0026	.0009	.0003

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	3.858	3.705	3.616	.1075	-.0015	12.02	.0005	-.0009	-.0034	.0010
Stddev	.021	.040	.026	.0000	.0001	.02	.0001	.0010	.0005	.0017
%RSD	.5454	1.090	.7251	.0203	6.261	.2046	30.40	111.0	13.52	161.1
#1	3.873	3.699	3.586	.1075	-.0016	12.00	.0005	-.0003	-.0029	.0004
#2	3.834	3.668	3.636	.1075	-.0014	12.01	.0003	-.0022	-.0038	.0029
#3	3.868	3.748	3.627	.1075	-.0015	12.04	.0005	-.0004	-.0035	-.0002

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	3.547	-.0006	.2195	.0002	-.0010	.0000	.0091
Stddev	.005	.0003	.0003	.0001	.0002	.0001	.0000
%RSD	.1508	47.76	.1406	68.12	20.10	169.5	.4664
#1	3.551	-.0003	.2191	.0000	-.0009	.0000	.0090
#2	3.541	-.0010	.2195	.0003	-.0012	.0000	.0091
#3	3.550	-.0007	.2197	.0003	-.0008	.0001	.0091

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	2828.7	7016.0	44741.	3359.5
Stddev	4.5	7.8	146.	30.3
%RSD	.15876	.11050	.32600	.90271
#1	2833.8	7024.8	44573.	3386.9
#2	2825.3	7013.2	44812.	3364.8
#3	2827.0	7010.1	44838.	3326.9

Zoom In Zoom Out

Sample Name: FA23062-3 Acquired: 4/3/2015 9:37:23 Type: Unk
Method: 60102007_041712(v214) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)
Avg	.0007	.0417	-.0027	.2323	.0001	69.27	.0012	.0033
Stddev	.0004	.0150	.0003	.0011	.0001	.15	.0000	.0001
%RSD	54.71	36.08	9.759	.4723	45.14	.2160	3.476	2.514
#1	.0010	.0273	-.0027	.2326	.0001	69.27	.0012	.0032
#2	.0010	.0405	-.0030	.2311	.0002	69.13	.0013	.0033
#3	.0003	.0573	-.0024	.2332	.0001	69.43	.0013	.0032

Elem	Cr2677	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)
Avg	.0025	.0039	121.8	6.738	38.72	F6.353	-.0006	F207.8
Stddev	.0002	.0003	.4	.022	.10	.037	.0001	1.5
%RSD	6.569	7.648	.3144	.3256	.2677	.5887	22.47	.7285
#1	.0024	.0036	121.8	6.757	38.77	6.348	-.0006	206.5
#2	.0026	.0038	121.4	6.714	38.60	6.319	-.0005	207.4
#3	.0027	.0042	122.2	6.743	38.78	6.393	-.0007	209.5

Elem	Ni2316	Pb2203	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)
Avg	-.0006	-.0020	F-.0057	.0013	13.95	-.0004	.6809	.0017
Stddev	.0001	.0010	.0016	.0007	.02	.0002	.0025	.0001
%RSD	8.724	46.68	27.05	54.76	.1121	47.39	.3681	6.702
#1	-.0006	-.0012	-.0075	.0006	13.93	-.0005	.6795	.0017
#2	-.0007	-.0031	-.0053	.0014	13.97	-.0004	.6793	.0015
#3	-.0006	-.0018	-.0044	.0021	13.94	-.0002	.6838	.0017

Elem	Tl1908	V_2924	Zn2062
IS Ref	(In2306)	(Y_3600)	(Y_2243)
Avg	.0021	.0025	.0102
Stddev	.0010	.0002	.0001
%RSD	47.17	8.570	.4938
#1	.0010	.0027	.0101
#2	.0029	.0023	.0102
#3	.0026	.0025	.0102

Zoom In Zoom Out

Sample Name: FA23062-3 Acquired: 4/3/2015 9:37:23 Type: Unk
Method: 60102007_041712(v214) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	2503.2	6664.2	41553.	3306.2
Stddev	3.0	10.0	107.	17.7
%RSD	.11991	.14946	.25829	.53459
#1	2503.1	6661.6	41438.	3288.3
#2	2506.3	6655.8	41569.	3323.6
#3	2500.3	6675.2	41651.	3306.6

Zoom In Zoom Out

Sample Name: CCV Acquired: 4/3/2015 9:41:45 Type: QC
Method: 60102007_041712(v214) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2491	39.50	2.131	2.064	2.006	39.53	2.088	2.093	1.957	2.014
Stddev	.0004	.05	.002	.004	.001	.06	.001	.001	.005	.005
%RSD	.1488	.1381	.1032	.1924	.0476	.1592	.0336	.0312	.2404	.2598
#1	.2490	39.56	2.134	2.069	2.007	39.60	2.087	2.093	1.958	2.017
#2	.2488	39.46	2.131	2.061	2.007	39.52	2.088	2.093	1.952	2.008
#3	.2495	39.48	2.130	2.063	2.005	39.47	2.087	2.094	1.961	2.018
Check ?	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass
Value										
Range										

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	40.41	41.29	40.66	2.031	2.089	40.26	2.139	2.005	2.117	2.123
Stddev	.09	.05	.13	.005	.008	.04	.002	.002	.000	.002
%RSD	.2145	.1201	.3171	.2554	.3827	.1018	.0792	.0803	.0212	.0719
#1	40.51	41.33	40.72	2.031	2.080	40.30	2.139	2.007	2.117	2.121
#2	40.35	41.23	40.74	2.025	2.091	40.25	2.140	2.005	2.117	2.124
#3	40.37	41.30	40.51	2.036	2.096	40.22	2.137	2.004	2.118	2.123
Check ?	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass
Value										
Range										

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.186	2.184	2.010	2.005	2.040	2.042	2.087
Stddev	.001	.004	.002	.004	.003	.000	.002
%RSD	.0508	.1667	.1128	.2139	.1296	.0083	.1004
#1	2.186	2.185	2.013	2.006	2.042	2.042	2.087
#2	2.185	2.187	2.009	2.000	2.040	2.042	2.088
#3	2.188	2.180	2.009	2.008	2.037	2.041	2.084
Check ?	None	Chk	Pass	Chk	Pass	Chk	Pass
Value							
Range							

Zoom In
Zoom Out

Sample Name: CCV Acquired: 4/3/2015 9:41:45 Type: QC
Method: 60102007_041712(v214) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2528.7	6862.2	43093.	3325.9
Stddev	.8	4.6	87.	7.7
%RSD	.03188	.06761	.20104	.23195
#1	2528.9	6860.6	43119.	3330.9
#2	2527.9	6858.5	43164.	3317.0
#3	2529.5	6867.4	42997.	3329.9

Zoom In
Zoom Out

Sample Name: CCB Acquired: 4/3/2015 9:45:41 Type: QC
Method: 60102007_041712(v214) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0003	-.0163	.0001	.0006	.0001	.0055	.0002	.0002	.0003
Stddev	.0003	.0150	.0002	.0004	.0001	.0012	.0001	.0001	.0002
%RSD	106.9	92.09	271.4	62.88	55.97	21.57	58.65	33.77	81.26
#1	.0001	-.0265	.0002	.0002	.0001	.0055	.0002	.0002	.0005
#2	.0002	.0009	-.0002	.0008	.0002	.0044	.0001	.0003	.0000
#3	.0007	-.0232	.0002	.0009	.0001	.0067	.0001	.0002	.0003
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0008	.0267	-.0560	.0026	.0003	F.0032	.0142	.0002	.0001
Stddev	.0001	.0094	.0319	.0071	.0000	.0013	.0062	.0001	.0003
%RSD	11.96	35.37	57.08	266.9	8.570	40.04	43.28	47.82	272.8
#1	.0007	.0366	-.0728	.0101	.0003	.0046	.0212	.0001	.0004
#2	.0007	.0257	-.0760	.0016	.0002	.0032	.0119	.0002	-.0002
#3	.0009	.0178	-.0191	-.0039	.0002	.0020	.0096	.0002	.0002
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit						.0010			
Low Limit						-.0010			

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0020	-.0004	.0050	.0002	.0003	.0008	.0008	.0003	.0002
Stddev	.0002	.0010	.0001	.0002	.0001	.0002	.0001	.0001	.0000
%RSD	10.33	234.6	1.044	99.61	30.62	19.07	17.64	28.96	11.57
#1	-.0022	.0006	.0050	.0003	.0002	.0007	.0010	.0004	.0002
#2	-.0018	-.0005	.0049	.0001	.0003	.0007	.0008	.0002	.0002
#3	-.0020	-.0013	.0050	.0001	.0004	.0010	.0007	.0004	.0002
Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Zoom In
Zoom Out

Sample Name: CCB Acquired: 4/3/2015 9:45:41 Type: QC
Method: 60102007_041712(v214) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3000.7	7215.2	45310.	3316.1
Stddev	6.0	14.2	205.	10.1
%RSD	.20137	.19642	.45190	.30458
#1	2994.7	7203.2	45089.	3312.0
#2	3006.8	7230.8	45494.	3308.7
#3	3000.5	7211.6	45346.	3327.6

Zoom In
Zoom Out

Sample Name: FA23062-4 Acquired: 4/3/2015 9:49:53 Type: Unk
Method: 60102007_041712(v214) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	.0002	.1635	.0011	.1737	.0001	55.27	.0004	.0038	.0093	.0020
Stddev	.0004	.0052	.0010	.0006	.0001	.01	.0000	.0001	.0004	.0002
%RSD	168.2	3.203	87.68	.3269	42.68	.0261	9.076	2.505	3.942	8.691
#1	-.0002	.1583	.0021	.1742	.0001	55.25	.0004	.0038	.0097	.0022
#2	.0006	.1688	.0001	.1738	.0001	55.28	.0004	.0037	.0091	.0018
#3	.0002	.1633	.0012	.1731	.0002	55.27	.0003	.0038	.0091	.0021

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	37.92	5.951	11.58	.2402	.0006	32.20	.0056	-.0021	-.0038	-.0004
Stddev	.06	.010	.04	.0005	.0003	.04	.0002	.0007	.0006	.0016
%RSD	.1502	.1696	.3462	.1992	46.15	.1334	3.674	32.75	16.38	411.3
#1	37.88	5.942	11.54	.2405	.0008	32.22	.0058	-.0027	-.0043	.0011
#2	37.98	5.951	11.58	.2405	.0005	32.23	.0054	-.0024	-.0031	-.0021
#3	37.88	5.962	11.62	.2397	.0004	32.15	.0056	-.0013	-.0039	-.0002

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	4.072	-.0007	.6450	.0070	-.0006	.0010	.0103
Stddev	.002	.0001	.0008	.0002	.0004	.0002	.0000
%RSD	.0454	9.022	.1256	2.456	71.51	21.65	.0919
#1	4.071	-.0007	.6446	.0071	-.0011	.0011	.0103
#2	4.071	-.0006	.6459	.0068	-.0004	.0011	.0103
#3	4.074	-.0007	.6444	.0072	-.0004	.0007	.0103

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	2686.6	6864.4	43060.	3314.7
Stddev	7.0	11.0	210.	27.4
%RSD	.26186	.16006	.48669	.82571
#1	2686.9	6864.4	43113.	3288.7
#2	2693.4	6875.4	42829.	3343.3
#3	2679.4	6853.5	43238.	3312.2

Zoom In Zoom Out

Sample Name: FA23062-5 Acquired: 4/3/2015 9:53:59 Type: Unk
Method: 60102007_041712(v214) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	.0002	.0116	-.0006	.0003	.0000	.0695	.0000	.0000	.0002	-.0001
Stddev	.0003	.0053	.0001	.0002	.0000	.0024	.000	.000	.0003	.0001
%RSD	136.6	46.00	23.36	69.47	110.6	3.470	151.1	4335.	161.2	214.9
#1	-.0001	.0061	-.0004	.0001	.0000	.0670	.0000	-.0001	.0001	.0001
#2	.0004	.0168	-.0006	.0004	.0000	.0696	.0000	.0000	.0004	-.0002
#3	.0002	.0119	-.0007	.0003	.0001	.0718	.0000	.0001	-.0001	-.0001

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	.0252	.0115	.0133	.0007	-.0013	.0405	.0003	-.0001	-.0026	-.0007
Stddev	.0051	.0324	.0152	.0000	.0001	.0026	.0001	.0004	.0008	.0013
%RSD	20.22	283.2	114.9	3.258	6.235	6.456	52.63	572.3	30.78	177.5
#1	.0308	.0483	.0089	.0007	-.0012	.0412	.0004	.0001	-.0019	.0006
#2	.0238	-.0010	.0007	.0007	-.0013	.0427	.0002	.0003	-.0023	-.0008
#3	.0209	-.0129	.0302	.0007	-.0014	.0376	.0002	-.0005	-.0035	-.0020

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	.0563	-.0008	.0004	-.0005	-.0014	-.0002	.0068
Stddev	.0004	.0001	.0000	.0001	.0001	.0000	.0000
%RSD	.6629	12.91	7.804	9.926	4.719	13.59	.2349
#1	.0565	-.0009	.0005	-.0006	-.0014	-.0002	.0068
#2	.0559	-.0007	.0004	-.0005	-.0014	-.0002	.0068
#3	.0566	-.0008	.0004	-.0006	-.0015	-.0002	.0068

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	2997.7	7136.6	45420.	3347.8
Stddev	5.4	7.7	128.	6.6
%RSD	.18180	.10841	.28197	.19591
#1	2992.0	7136.5	45273.	3340.9
#2	2998.4	7128.9	45488.	3354.0
#3	3002.8	7144.4	45501.	3348.5

Zoom In Zoom Out

Sample Name: FA23062-6 Acquired: 4/3/2015 9:58:09 Type: Unk
Method: 60102007_041712(v214) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	.0003	.2876	-.0002	.0517	.0000	15.56	.0001	.0040	.0039	.0012
Stddev	.0003	.0150	.0005	.0004	.0000	.04	.0001	.0001	.0005	.0004
%RSD	104.2	5.231	337.7	.8449	743.4	.2526	82.19	1.559	11.93	35.91
#1	.0003	.2765	-.0007	.0520	.0000	15.60	.0001	.0040	.0040	.0014
#2	.0006	.2816	.0003	.0512	.0000	15.57	.0001	.0041	.0035	.0007
#3	.0000	.3048	.0000	.0518	.0001	15.52	.0000	.0041	.0044	.0016

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	7.163	3.231	3.396	.0721	-.0011	8.676	.0035	-.0009	-.0032	-.0008
Stddev	.005	.010	.027	.0000	.0001	.028	.0002	.0006	.0009	.0006
%RSD	.0641	.2959	.7861	.0533	7.131	.3232	6.370	71.43	29.09	72.23
#1	7.161	3.240	3.421	.0721	-.0011	8.708	.0033	-.0015	-.0041	-.0005
#2	7.168	3.231	3.368	.0721	-.0010	8.661	.0037	-.0009	-.0023	-.0015
#3	7.159	3.221	3.399	.0722	-.0012	8.658	.0035	-.0003	-.0033	-.0005

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	4.047	-.0010	.2082	.0101	-.0003	.0010	.0106
Stddev	.001	.0002	.0008	.0006	.0002	.0001	.0000
%RSD	.0351	15.99	.3806	5.757	65.53	13.17	.4103
#1	4.048	-.0008	.2090	.0094	-.0001	.0010	.0106
#2	4.046	-.0011	.2082	.0104	-.0004	.0008	.0106
#3	4.049	-.0010	.2075	.0104	-.0005	.0011	.0107

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	2833.8	7050.9	44487.	3317.0
Stddev	2.4	7.8	74.	5.3
%RSD	.08385	.11059	.16715	.16097
#1	2834.8	7046.0	44572.	3316.5
#2	2831.1	7046.8	44442.	3311.8
#3	2835.6	7059.9	44445.	3322.5

Zoom In Zoom Out

Sample Name: FA23062-7 Acquired: 4/3/2015 10:02:16 Type: Unk
Method: 60102007_041712(v214) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	.0000	.0181	-.0008	.0008	.0000	.0546	.0000	.0002	.0005	.0029
Stddev	.000	.0054	.0002	.0003	.0001	.0023	.0000	.0001	.0003	.0001
%RSD	5054.	29.71	26.37	40.64	683.0	4.301	66.12	65.24	58.37	3.701
#1	-.0001	.0244	-.0010	.0010	.0001	.0546	.0001	.0001	.0006	.0030
#2	.0003	.0146	-.0007	.0008	-.0001	.0522	.0000	.0003	.0007	.0028
#3	-.0002	.0155	-.0007	.0004	.0000	.0569	.0000	.0001	.0002	.0028

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	.0321	.0175	.0182	.0013	-.0015	.3116	.0003	-.0004	-.0034	-.0002
Stddev	.0053	.0275	.0349	.0000	.0001	.0030	.0001	.0003	.0004	.0010
%RSD	16.43	157.0	191.9	3.417	10.14	.9480	23.47	64.11	11.35	484.7
#1	.0382	-.0105	.0220	.0013	-.0016	.3142	.0003	-.0002	-.0036	.0008
#2	.0298	.0444	.0510	.0013	-.0013	.3122	.0003	-.0004	-.0036	-.0002
#3	.0284	.0187	-.0185	.0012	-.0015	.3084	.0004	-.0007	-.0029	-.0012

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	.0984	.0010	.0003	-.0001	-.0011	.0003	.0352
Stddev	.0012	.0000	.0001	.0000	.0003	.0003	.0001
%RSD	1.252	4.601	29.70	26.20	30.95	113.3	.2560
#1	.0977	.0009	.0003	-.0002	-.0007	.0006	.0351
#2	.0978	.0010	.0002	-.0001	-.0013	.0001	.0353
#3	.0998	.0010	.0004	-.0001	-.0013	.0001	.0352

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	2995.3	7147.7	45008.	3318.0
Stddev	6.9	11.9	293.	12.9
%RSD	.23187	.16711	.65101	.38807
#1	2997.0	7142.2	45326.	3316.6
#2	3001.2	7161.4	44750.	3331.5
#3	2987.7	7139.5	44947.	3305.9

Zoom In Zoom Out

Sample Name: MP28746-MB1 Acquired: 4/3/2015 10:06:25 Type: QC
Method: 60102007_041712(v214) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0001	.0063	-.0010	.0002	.0001	.0130	.0000	.0000
Stddev	.0003	.0137	.0006	.0002	.0000	.0055	.000	.000
%RSD	328.2	217.3	59.21	117.3	44.27	41.88	65.24	217.2
#1	-.0003	.0195	-.0004	.0000	.0000	.0103	-.0001	.0000
#2	.0003	-.0078	-.0009	.0001	.0001	.0095	-.0001	.0000
#3	.0004	.0072	-.0016	.0005	.0001	.0193	.0000	-.0001
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Cr2677	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0001	.0004	-.0162	-.0053	.0094	.0000	-.0016	-.0287
Stddev	.0002	.0002	.0014	.0177	.0133	.000	.0000	.0048
%RSD	180.5	62.80	8.671	331.1	141.2	205.6	1.254	16.72
#1	.0000	.0003	-.0178	-.0221	-.0058	.0000	-.0016	-.0235
#2	.0004	.0006	-.0157	-.0070	.0154	.0000	-.0016	-.0330
#3	.0000	.0002	-.0151	.0131	.0186	.0000	-.0016	-.0296
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Ni2316	Pb2203	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0001	.0003	F-.0029	-.0005	.0256	-.0005	.0001	-.0010
Stddev	.0000	.0004	.0014	.0016	.0006	.0001	.0001	.0000
%RSD	25.51	159.9	46.68	308.3	2.275	24.33	210.1	5.075
#1	-.0001	.0000	-.0017	.0014	.0253	-.0004	.0000	-.0010
#2	-.0001	.0007	-.0044	-.0014	.0252	-.0006	.0002	-.0010
#3	-.0001	.0000	-.0027	-.0016	.0263	-.0006	.0000	-.0009
Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass
High Limit			.0025					
Low Limit			-.0025					

Zoom In Zoom Out

Sample Name: MP28746-MB1 Acquired: 4/3/2015 10:06:25 Type: QC
Method: 60102007_041712(v214) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm
Avg	-.0011	.0000	.0005
Stddev	.0008	.0000	.0000
%RSD	77.09	98.70	2.737
#1	-.0005	.0000	.0005
#2	-.0007	.0000	.0005
#3	-.0020	.0001	.0005
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2980.7	7199.1	45174.	3262.6
Stddev	5.1	6.9	130.	13.0
%RSD	.17250	.09594	.28844	.39797
#1	2985.4	7202.1	45303.	3249.2
#2	2981.4	7203.9	45042.	3275.2
#3	2975.2	7191.2	45177.	3263.3

Zoom In Zoom Out

Sample Name: MP28746-B1 Acquired: 4/3/2015 10:10:36 Type: QC
Method: 60102007_041712(v214) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0503	27.63	2.180	2.154	.0532	25.75	.0536	.5418	.2076	.2651
Stddev	.0004	.01	.004	.002	.0002	.02	.0001	.0007	.0006	.0007
%RSD	.7669	.0411	.1640	.0926	.3308	.0711	.2559	.1309	.2893	.2625
#1	.0507	27.62	2.177	2.152	.0530	25.77	.0535	.5412	.2073	.2644
#2	.0500	27.64	2.181	2.156	.0533	25.73	.0537	.5416	.2083	.2658
#3	.0501	27.62	2.184	2.154	.0533	25.76	.0538	.5426	.2073	.2649
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value										
Range										

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	27.01	26.49	25.94	.5219	.5267	26.26	.5585	.5044	.5415	2.154
Stddev	.05	.05	.08	.0003	.0008	.03	.0005	.0011	.0011	.004
%RSD	.1845	.1769	.2933	.0650	.1539	.1166	.0895	.2137	.2011	.1729
#1	26.96	26.50	25.90	.5221	.5258	26.26	.5580	.5043	.5418	2.155
#2	27.00	26.45	26.03	.5221	.5273	26.24	.5586	.5034	.5423	2.151
#3	27.06	26.54	25.90	.5215	.5270	26.30	.5590	.5056	.5403	2.158
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value										
Range										

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0331	.5691	.5129	.5011	2.061	.5127	.5384
Stddev	.0006	.0009	.0009	.0002	.005	.0013	.0009
%RSD	1.794	.1597	.1750	.0340	.2611	.2536	.1604
#1	.0331	.5682	.5127	.5012	2.060	.5112	.5378
#2	.0325	.5693	.5122	.5013	2.056	.5134	.5380
#3	.0337	.5700	.5139	.5009	2.066	.5134	.5394
Check ?	None	Chk Pass	None	None	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Zoom In Zoom Out

Sample Name: MP28746-B1 Acquired: 4/3/2015 10:10:36 Type: QC
Method: 60102007_041712(v214) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2639.9	6935.3	43274.	3265.4
Stddev	6.3	5.9	68.	17.1
%RSD	.23905	.08540	.15682	.52448
#1	2638.1	6939.2	43252.	3250.1
#2	2646.9	6938.1	43350.	3262.1
#3	2634.7	6928.5	43220.	3283.9

Zoom In Zoom Out

Sample Name: FA23223-1 Acquired: 4/3/2015 10:14:36 Type: Unk
Method: 60102007_041712(v214) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	.0003	.0062	-.0010	.0002	.0000	.0597	-.0001	.0000	.0001	.0025
Stddev	.0002	.0056	.0006	.0000	.0001	.0021	.0000	.000	.0001	.0003
%RSD	71.47	90.44	58.58	14.38	401.5	3.571	9.382	235.0	91.10	10.75
#1	.0004	.0052	-.0005	.0002	.0002	.0585	-.0001	.0000	.0000	.0022
#2	.0004	.0123	-.0016	.0003	.0001	.0585	-.0001	.0000	.0001	.0026
#3	.0000	.0011	-.0009	.0002	-.0001	.0622	-.0001	.0000	.0001	.0027

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	.0162	-.0086	.0215	.0002	-.0014	-.0169	-.0001	.0003	-.0030	-.0005
Stddev	.0069	.0300	.0093	.0000	.0001	.0092	.0001	.0006	.0005	.0003
%RSD	42.60	350.0	43.46	20.02	9.062	54.48	77.08	227.1	16.66	61.99
#1	.0238	.0250	.0178	.0002	-.0012	-.0077	-.0002	-.0002	-.0028	-.0007
#2	.0142	-.0326	.0146	.0002	-.0014	-.0261	.0000	.0010	-.0027	-.0001
#3	.0105	-.0180	.0321	.0002	-.0015	-.0170	-.0002	.0001	-.0036	-.0006

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	.0318	-.0003	.0001	-.0005	-.0004	.0000	.0090
Stddev	.0005	.0001	.0001	.0000	.0004	.0002	.0001
%RSD	1.419	32.07	67.41	7.326	96.48	3602.	.9203
#1	.0316	-.0004	.0001	-.0005	-.0008	.0002	.0089
#2	.0315	-.0003	.0002	-.0005	.0000	-.0002	.0091
#3	.0323	-.0002	.0000	-.0006	-.0005	.0000	.0091

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	3002.4	7203.3	45422.	3313.4
Stddev	4.4	3.4	41.	9.5
%RSD	.14703	.04767	.09095	.28654
#1	2999.1	7207.3	45458.	3324.2
#2	3000.6	7201.5	45431.	3309.8
#3	3007.4	7201.2	45377.	3306.3

Zoom In
Zoom Out

Sample Name: MP28746-D1 Acquired: 4/3/2015 10:18:46 Type: Unk
Method: 60102007_041712(v214) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	.0000	-.0117	-.0014	.0003	.0001	.0580	.0000	.0000	.0000	.0026
Stddev	.000	.0120	.0006	.0003	.0001	.0024	.000	.0001	.0002	.0002
%RSD	3665.	101.8	39.91	117.5	87.61	4.169	98.11	2541.	321.8	9.570
#1	.0001	-.0040	-.0018	-.0001	.0001	.0581	.0000	.0000	.0000	.0028
#2	.0003	-.0057	-.0008	.0004	.0000	.0603	.0000	.0001	.0000	.0023
#3	-.0004	-.0255	-.0017	.0005	.0001	.0555	-.0001	-.0001	.0002	.0027

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	-.0107	-.0224	.0110	.0000	-.0015	-.0293	-.0003	-.0003	-.0038	.0002
Stddev	.0032	.0323	.0391	.0000	.0001	.0059	.0001	.0003	.0010	.0003
%RSD	29.44	143.8	355.0	216.7	5.288	20.24	56.80	95.74	27.23	138.8
#1	-.0139	.0089	.0560	.0000	-.0015	-.0294	-.0001	-.0001	-.0026	.0005
#2	-.0106	-.0206	-.0084	.0000	-.0015	-.0352	-.0003	-.0006	-.0046	-.0001
#3	-.0076	-.0555	-.0146	.0000	-.0016	-.0233	-.0004	-.0001	-.0042	.0002

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	.0345	-.0004	.0001	-.0009	-.0014	-.0003	.0078
Stddev	.0007	.0001	.0002	.0001	.0006	.0003	.0000
%RSD	2.082	27.02	197.3	10.35	45.40	81.74	.0176
#1	.0338	-.0003	.0003	-.0009	-.0008	-.0004	.0078
#2	.0352	-.0005	-.0001	-.0008	-.0020	.0000	.0078
#3	.0344	-.0004	.0000	-.0010	-.0013	-.0005	.0078

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	2997.8	7183.5	45549.	3315.1
Stddev	9.5	20.9	86.	16.3
%RSD	.31741	.29151	.18960	.49300
#1	2990.5	7165.4	45486.	3318.4
#2	2994.4	7178.6	45514.	3329.5
#3	3008.6	7206.4	45647.	3297.4

Zoom In
Zoom Out

Sample Name: MP28746-SD1 Acquired: 4/3/2015 10:22:56 Type: Unk
Method: 60102007_041712(v214) Mode: CONC Corr. Factor: 5.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	-.0006	-.0194	-.0001	.0024	.0000	.6914	.0000	.0001	.0005	.0028
Stddev	.0013	.0556	.0027	.0019	.000	.0133	.0002	.0006	.0013	.0001
%RSD	225.2	286.8	2247.	78.16	2615.	1.925	2320.	595.8	295.0	4.205
#1	-.0020	-.0285	-.0028	.0005	.0001	.7013	.0001	.0007	.0019	.0027
#2	-.0001	.0402	-.0001	.0025	-.0004	.6967	-.0002	-.0001	.0003	.0029
#3	.0004	-.0699	.0025	.0043	.0002	.6763	.0002	-.0003	-.0008	.0027

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	-.0803	-.1926	-.0899	.0003	-.0083	-.1763	-.0008	-.0026	-.0152	-.0068
Stddev	.0087	.1130	.0759	.0002	.0004	.0351	.0003	.0033	.0019	.0008
%RSD	10.78	58.66	84.51	67.66	5.357	19.89	41.57	128.8	12.48	11.37
#1	-.0744	-.2125	-.1775	.0005	-.0085	-.1460	-.0012	-.0014	-.0140	-.0060
#2	-.0762	-.0710	-.0473	.0001	-.0078	-.1683	-.0005	.0000	-.0142	-.0071
#3	-.0902	-.2943	-.0447	.0003	-.0086	-.2147	-.0008	-.0063	-.0174	-.0074

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	.0525	-.0013	.0002	-.0042	-.0001	-.0006	.0119
Stddev	.0006	.0010	.0002	.0003	.0025	.0004	.0001
%RSD	1.154	81.98	89.40	6.385	2781.	58.42	.9546
#1	.0524	-.0020	.0000	-.0044	.0028	-.0009	.0120
#2	.0519	-.0017	.0002	-.0039	-.0015	-.0002	.0117
#3	.0531	-.0001	.0005	-.0043	-.0016	-.0007	.0119

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	3016.9	7237.7	45294.	3306.3
Stddev	5.4	3.3	85.	11.6
%RSD	.17858	.04618	.18659	.35102
#1	3020.5	7239.7	45281.	3297.5
#2	3010.7	7233.9	45217.	3319.4
#3	3019.4	7239.6	45385.	3301.9

Zoom In
Zoom Out

Sample Name: MP28746-PS1 Acquired: 4/3/2015 10:27:07 Type: Unk
Method: 60102007_041712(v214) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	.0480	2.565	.1080	.2662	.0528	5.259	.0551	.0560	.0523	.1091
Stddev	.0003	.012	.0002	.0012	.0002	.023	.0000	.0001	.0001	.0009
%RSD	.6241	.4811	.2296	.4460	.4688	.4343	.0366	.1207	.2612	.8302
#1	.0477	2.574	.1080	.2674	.0530	5.271	.0551	.0561	.0521	.1082
#2	.0483	2.570	.1077	.2650	.0526	5.274	.0551	.0559	.0523	.1089
#3	.0481	2.551	.1082	.2662	.0526	5.233	.0551	.0560	.0524	.1100

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	3.060	10.35	5.008	.0534	.1061	10.87	.1156	.0472	.1055	.1050
Stddev	.005	.02	.054	.0001	.0004	.04	.0001	.0003	.0006	.0006
%RSD	.1498	.2400	1.071	.2494	.3396	.3291	.1285	.6489	.6081	.5500
#1	3.057	10.35	4.990	.0532	.1062	10.91	.1158	.0475	.1054	.1051
#2	3.059	10.32	5.068	.0534	.1064	10.85	.1156	.0472	.1049	.1044
#3	3.066	10.37	4.965	.0535	.1057	10.84	.1155	.0469	.1062	.1055

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	.0393	.0561	.0516	.1005	.1027	.0520	.2844
Stddev	.0006	.0001	.0003	.0003	.0004	.0004	.0003
%RSD	1.427	.2016	.5716	.2908	.3634	.7777	.1126
#1	.0394	.0562	.0519	.1002	.1024	.0518	.2840
#2	.0398	.0562	.0515	.1007	.1031	.0524	.2846
#3	.0387	.0560	.0513	.1006	.1025	.0517	.2846

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	2835.7	7079.3	44259.	3278.8
Stddev	4.1	5.7	260.	12.2
%RSD	.14478	.08019	.58809	.37246
#1	2839.7	7085.6	44558.	3268.6
#2	2831.5	7074.8	44087.	3292.3
#3	2836.0	7077.3	44131.	3275.4

Zoom In
Zoom Out

Sample Name: CCV Acquired: 4/3/2015 10:31:10 Type: QC
Method: 60102007_041712(v214) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2511	40.46	2.130	2.082	2.043	40.50	2.105	2.107	1.994	2.036
Stddev	.0008	.06	.005	.004	.002	.06	.001	.001	.002	.003
%RSD	.3263	.1359	.2366	.1984	.1026	.1467	.0535	.0595	.1111	.1270
#1	.2518	40.42	2.124	2.078	2.041	40.44	2.105	2.107	1.993	2.038
#2	.2514	40.44	2.134	2.082	2.045	40.56	2.103	2.105	1.992	2.036
#3	.2502	40.53	2.132	2.086	2.042	40.50	2.105	2.108	1.996	2.033
Check ?	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass
Value										
Range										

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	41.09	42.02	41.15	2.048	2.094	41.52	2.137	2.020	2.121	2.126
Stddev	.09	.12	.23	.002	.010	.08	.001	.002	.007	.004
%RSD	.2160	.2971	.5595	.1139	.4580	.1983	.0296	.0740	.3342	.1628
#1	41.07	41.88	41.09	2.051	2.085	41.42	2.136	2.021	2.114	2.124
#2	41.01	42.09	40.95	2.046	2.094	41.58	2.136	2.018	2.121	2.125
#3	41.18	42.09	41.40	2.048	2.104	41.54	2.137	2.019	2.128	2.130
Check ?	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass
Value										
Range										

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.189	2.174	2.047	2.027	2.052	2.051	2.098
Stddev	.004	.001	.004	.002	.001	.003	.003
%RSD	.1888	.0541	.2022	.0794	.0444	.1453	.1353
#1	2.185	2.172	2.043	2.028	2.052	2.054	2.102
#2	2.190	2.174	2.052	2.026	2.051	2.049	2.097
#3	2.193	2.174	2.047	2.028	2.052	2.050	2.097
Check ?	None	Chk	Pass	Chk	Pass	Chk	Pass
Value							
Range							

Zoom In
Zoom Out

Sample Name: CCV Acquired: 4/3/2015 10:31:10 Type: QC
Method: 60102007_041712(v214) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2526.9	6877.1	42649.	3243.7
Stddev	6.0	12.7	103.	29.0
%RSD	.23647	.18509	.24233	.89284
#1	2520.3	6862.5	42664.	3260.2
#2	2528.5	6883.3	42744.	3260.6
#3	2531.9	6885.5	42539.	3210.2

Zoom In
Zoom Out

Sample Name: CCB Acquired: 4/3/2015 10:35:05 Type: QC
Method: 60102007_041712(v214) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0001	-.0069	-.0001	.0003	.0001	.0080	.0001	.0001	.0002
Stddev	.0004	.0028	.0004	.0003	.0001	.0024	.0001	.0000	.0001
%RSD	337.5	40.05	484.7	96.21	101.6	30.27	61.07	28.77	60.45
#1	.0006	-.0047	.0002	.0001	.0000	.0058	.0001	.0002	.0001
#2	-.0002	-.0060	.0001	.0007	.0001	.0106	.0000	.0001	.0004
#3	.0000	-.0100	-.0005	.0002	.0001	.0077	.0001	.0001	.0003
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0003	.0241	-.0219	.0070	.0001	F.0025	-.0334	.0000	.0001
Stddev	.0001	.0085	.0424	.0413	.0000	.0014	.0038	.0002	.0003
%RSD	42.40	35.26	194.2	593.0	8.557	53.80	11.28	513.8	246.3
#1	.0005	.0335	-.0535	-.0308	.0001	.0040	-.0314	.0001	.0001
#2	.0004	.0218	-.0384	.0511	.0001	.0024	-.0377	.0002	.0004
#3	.0002	.0170	.0264	.0006	.0001	.0013	-.0310	-.0002	-.0001
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit						.0010			
Low Limit						-.0010			

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0017	-.0007	.0050	.0001	.0002	.0009	.0002	.0000	.0001
Stddev	.0010	.0015	.0005	.0001	.0000	.0002	.0003	.0002	.0001
%RSD	60.63	199.1	10.56	39.47	5.515	17.66	132.7	399.7	102.5
#1	-.0005	.0008	.0056	.0001	.0002	.0011	.0006	.0000	.0001
#2	-.0023	-.0008	.0045	.0002	.0002	.0010	.0000	-.0001	.0001
#3	-.0022	-.0021	.0050	.0002	.0002	.0008	.0001	.0002	.0000
Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Zoom In
Zoom Out

Sample Name: CCB Acquired: 4/3/2015 10:35:05 Type: QC
Method: 60102007_041712(v214) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2989.2	7197.2	45002.	3287.9
Stddev	3.2	12.8	149.	7.5
%RSD	.10655	.17776	.33091	.22827
#1	2986.2	7195.0	45174.	3281.8
#2	2992.5	7185.6	44922.	3296.3
#3	2988.8	7210.9	44912.	3285.6

Zoom In
Zoom Out

Sample Name: MP28746-S1 Acquired: 4/3/2015 10:39:17 Type: Unk
Method: 60102007_041712(v214) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	.0509	27.80	2.160	2.159	.0535	25.98	.0531	.5361	.2092	.2686
Stddev	.0000	.07	.003	.006	.0002	.01	.0000	.0001	.0005	.0009
%RSD	.0256	.2365	.1275	.2896	.3710	.0492	.0790	.0136	.2287	.3498
#1	.0509	27.87	2.161	2.152	.0535	25.98	.0530	.5361	.2090	.2675
#2	.0509	27.74	2.157	2.160	.0533	25.97	.0531	.5361	.2097	.2691
#3	.0509	27.78	2.163	2.164	.0537	25.99	.0531	.5362	.2088	.2692

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	27.19	26.61	26.06	.5261	.5249	26.57	.5507	.5065	.5366	2.124
Stddev	.06	.04	.13	.0022	.0004	.02	.0011	.0011	.0001	.001
%RSD	.2224	.1516	.4839	.4137	.0808	.0842	.1980	.2260	.0192	.0421
#1	27.12	26.66	26.02	.5236	.5245	26.59	.5513	.5052	.5365	2.123
#2	27.22	26.59	25.96	.5276	.5248	26.54	.5494	.5074	.5365	2.125
#3	27.24	26.59	26.20	.5271	.5253	26.57	.5513	.5068	.5367	2.125

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	.0392	.5633	.5175	.5068	2.059	.5134	.5399
Stddev	.0007	.0007	.0004	.0017	.003	.0006	.0006
%RSD	1.886	.1223	.0789	.3279	.1388	.1076	.1067
#1	.0398	.5629	.5172	.5050	2.056	.5130	.5399
#2	.0395	.5628	.5180	.5081	2.061	.5140	.5394
#3	.0384	.5641	.5174	.5075	2.060	.5131	.5406

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	2633.8	6990.0	43021.	3257.0
Stddev	2.6	6.0	240.	10.0
%RSD	.09804	.08548	.55883	.30806
#1	2636.8	6993.5	43241.	3251.5
#2	2632.7	6993.4	42765.	3268.5
#3	2631.9	6983.1	43057.	3250.9

Zoom In Zoom Out

Sample Name: MP28746-S2 Acquired: 4/3/2015 10:43:16 Type: Unk
Method: 60102007_041712(v214) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	.0504	28.10	2.176	2.170	.0538	26.19	.0536	.5404	.2098	.2692
Stddev	.0002	.04	.006	.005	.0001	.02	.0001	.0003	.0006	.0013
%RSD	.3539	.1407	.2792	.2195	.1279	.0710	.2248	.0551	.2879	.4917
#1	.0502	28.14	2.171	2.176	.0539	26.20	.0535	.5401	.2095	.2704
#2	.0505	28.07	2.183	2.169	.0538	26.17	.0535	.5405	.2105	.2695
#3	.0504	28.08	2.174	2.167	.0538	26.20	.0537	.5406	.2094	.2678

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	27.40	26.97	26.37	.5276	.5274	26.77	.5546	.5075	.5422	2.145
Stddev	.02	.08	.07	.0013	.0003	.07	.0006	.0019	.0015	.002
%RSD	.0684	.2982	.2739	.2524	.0612	.2528	.1092	.3822	.2825	.0974
#1	27.42	27.04	26.32	.5274	.5272	26.84	.5546	.5054	.5425	2.143
#2	27.38	26.89	26.45	.5290	.5278	26.72	.5552	.5092	.5406	2.147
#3	27.41	26.99	26.33	.5263	.5272	26.74	.5540	.5078	.5436	2.145

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	.0397	.5682	.5199	.5063	2.073	.5164	.5447
Stddev	.0002	.0007	.0013	.0016	.003	.0010	.0002
%RSD	.5275	.1249	.2577	.3122	.1504	.1873	.0400
#1	.0395	.5690	.5214	.5065	2.069	.5164	.5444
#2	.0399	.5679	.5188	.5079	2.074	.5174	.5448
#3	.0398	.5677	.5196	.5047	2.075	.5155	.5448

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	2635.4	6979.3	43264.	3226.2
Stddev	5.9	9.7	128.	3.7
%RSD	.22382	.13862	.29605	.11585
#1	2636.8	6971.0	43407.	3226.6
#2	2629.0	6976.9	43225.	3222.2
#3	2640.5	6989.9	43160.	3229.7

Zoom In Zoom Out

Sample Name: FA23223-2 Acquired: 4/3/2015 10:47:14 Type: Unk
Method: 60102007_041712(v214) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)
Avg	.0001	.0601	-.0007	.0077	.0001	329.3	-.0003	.0002	.0018
Stddev	.0004	.0187	.0005	.0003	.0002	.6	.0000	.0001	.0003
%RSD	601.7	31.13	76.96	3.637	225.0	.1774	4.310	27.93	15.98
#1	.0005	.0747	-.0004	.0076	.0000	330.0	-.0003	.0001	.0019
#2	.0001	.0665	-.0013	.0075	.0002	329.1	-.0003	.0003	.0015
#3	-.0004	.0390	-.0004	.0081	-.0001	328.9	-.0003	.0002	.0020

Elem	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
IS Ref	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)
Avg	-.0002	2.568	3.365	72.35	.0695	-.0018	F202.1	.0007	-.0041
Stddev	.0002	.015	.023	.19	.0000	.0001	2.1	.0000	.0004
%RSD	118.7	.5852	.6922	.2652	.0675	7.658	1.061	4.916	9.281
#1	-.0004	2.582	3.346	72.18	.0695	-.0017	203.5	.0007	-.0037
#2	.0000	2.569	3.357	72.31	.0696	-.0017	199.7	.0007	-.0040
#3	-.0002	2.552	3.391	72.56	.0695	-.0019	203.3	.0007	-.0045

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	-.0025	.0011	5.553	-.0004	.2839	.0009	-.0009	.0029	.0058
Stddev	.0015	.0001	.007	.0001	.0007	.0001	.0003	.0005	.0000
%RSD	58.69	11.80	.1321	33.53	.2614	7.476	35.72	16.49	.4716
#1	-.0026	.0010	5.561	-.0003	.2845	.0010	-.0006	.0031	.0058
#2	-.0039	.0012	5.546	-.0003	.2841	.0009	-.0010	.0033	.0058
#3	-.0010	.0013	5.551	-.0006	.2831	.0008	-.0012	.0024	.0058

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	2365.8	6371.9	39376.	3188.6
Stddev	3.4	11.8	80.	12.9
%RSD	.14369	.18538	.20200	.40449
#1	2368.6	6376.8	39431.	3190.3
#2	2366.8	6380.4	39412.	3200.5
#3	2362.0	6358.4	39285.	3174.9

Zoom In Zoom Out

Sample Name: FA23223-3 Acquired: 4/3/2015 10:51:30 Type: Unk
Method: 60102007_041712(v214) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	.0001	.2486	.0009	.0095	.0002	32.21	.0001	.0011	.0024	.0002
Stddev	.0004	.0171	.0007	.0002	.0000	.17	.0000	.0000	.0001	.0000
%RSD	396.0	6.888	81.79	1.625	26.69	.5318	42.97	4.054	5.892	16.06
#1	.0005	.2303	.0001	.0095	.0001	32.04	.0001	.0012	.0023	.0002
#2	-.0004	.2643	.0011	.0097	.0002	32.19	.0001	.0011	.0024	.0002
#3	.0002	.2512	.0015	.0094	.0002	32.39	.0000	.0011	.0026	.0003

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	8.993	.7596	3.467	.0212	-.0012	50.41	.0001	-.0017	-.0028	-.0003
Stddev	.043	.0442	.025	.0000	.0001	.20	.0000	.0001	.0009	.0007
%RSD	.4824	5.819	.7259	.1803	5.927	.3880	65.96	8.761	32.02	257.9
#1	8.951	.8055	3.442	.0212	-.0012	50.22	.0000	-.0015	-.0018	-.0008
#2	8.992	.7558	3.466	.0212	-.0011	50.39	.0001	-.0017	-.0035	-.0005
#3	9.037	.7174	3.492	.0212	-.0011	50.61	.0001	-.0018	-.0032	.0005

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	2.691	-.0006	.0335	.0042	-.0003	.0028	.0073
Stddev	.001	.0002	.0003	.0003	.0005	.0001	.0001
%RSD	.0514	39.18	.7768	7.593	189.5	4.894	.8410
#1	2.692	-.0008	.0332	.0041	.0000	.0027	.0074
#2	2.691	-.0003	.0335	.0040	.0001	.0030	.0073
#3	2.690	-.0006	.0337	.0046	-.0009	.0028	.0074

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	2697.9	6979.0	43162.	3278.0
Stddev	8.0	17.6	211.	11.3
%RSD	.29755	.25150	.48975	.34486
#1	2695.6	6966.3	42980.	3290.6
#2	2706.9	6999.0	43394.	3274.5
#3	2691.3	6971.7	43113.	3268.8

Zoom In Zoom Out

Sample Name: FA23223-4 Acquired: 4/3/2015 10:55:37 Type: Unk
Method: 60102007_041712(v214) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	.0003	.0530	-.0009	.0156	.0000	67.80	.0000	-.0002	.0006	.0001
Stddev	.0001	.0062	.0010	.0003	.0000	.29	.0000	.0001	.0001	.0003
%RSD	46.26	11.70	106.1	2.193	54.73	.4252	88.03	23.52	18.73	231.4
#1	.0002	.0490	-.0020	.0152	.0000	67.47	.0000	-.0002	.0007	.0004
#2	.0004	.0601	-.0006	.0156	.0001	68.00	.0000	-.0003	.0006	-.0001
#3	.0002	.0498	-.0001	.0159	.0000	67.93	.0000	-.0002	.0005	.0001

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	7.493	1.170	28.57	.1312	-.0019	16.36	-.0003	-.0025	-.0030	-.0009
Stddev	.023	.016	.26	.0003	.0001	.06	.0002	.0008	.0009	.0015
%RSD	.3122	1.352	.9017	.2053	4.922	.3840	72.55	30.39	29.64	163.3
#1	7.466	1.152	28.39	.1312	-.0020	16.29	-.0001	-.0031	-.0029	.0003
#2	7.511	1.176	28.87	.1309	-.0018	16.41	-.0004	-.0026	-.0022	-.0026
#3	7.501	1.182	28.46	.1315	-.0019	16.38	-.0003	-.0017	-.0040	-.0005

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	7.857	-.0004	.0897	.0004	.0001	.0008	.0092
Stddev	.002	.0001	.0002	.0001	.0009	.0001	.0000
%RSD	.0208	27.43	.2746	32.13	746.5	12.16	.4367
#1	7.855	-.0003	.0894	.0005	-.0009	.0008	.0092
#2	7.857	-.0005	.0899	.0003	.0004	.0007	.0092
#3	7.858	-.0005	.0898	.0004	.0008	.0008	.0093

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	2715.6	6895.3	42880.	3267.3
Stddev	10.1	7.5	80.	31.0
%RSD	.37243	.10807	.18616	.95000
#1	2727.2	6903.9	42956.	3293.9
#2	2710.2	6890.7	42888.	3233.2
#3	2709.3	6891.3	42797.	3274.8

Zoom In Zoom Out

Sample Name: FA23223-5 Acquired: 4/3/2015 10:59:44 Type: Unk
Method: 60102007_041712(v214) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	-.0001	.0227	.0010	.0270	.0001	175.2	.0001	.0052	.0007	.0003
Stddev	.0004	.0104	.0006	.0002	.0000	.2	.0000	.0000	.0003	.0002
%RSD	608.0	45.83	60.14	.5783	79.93	.1331	64.74	.4552	33.88	59.45
#1	-.0005	.0143	.0017	.0271	.0000	175.2	.0001	.0053	.0006	.0005
#2	.0001	.0195	.0007	.0268	.0001	175.4	.0000	.0053	.0010	.0003
#3	.0003	.0343	.0006	.0271	.0000	174.9	.0001	.0052	.0006	.0001

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	24.38	2.222	82.64	.4353	-.0015	50.57	.0190	-.0039	-.0042	-.0002
Stddev	.02	.031	.09	.0012	.0001	.05	.0001	.0001	.0004	.0015
%RSD	.0963	1.404	.1110	.2833	8.722	.0959	.4374	1.905	9.003	798.5
#1	24.40	2.231	82.75	.4344	-.0017	50.59	.0189	-.0040	-.0042	.0014
#2	24.36	2.247	82.57	.4367	-.0014	50.61	.0190	-.0039	-.0046	-.0003
#3	24.37	2.187	82.61	.4347	-.0015	50.52	.0190	-.0039	-.0039	-.0016

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	10.69	-.0005	.1863	.0001	-.0003	.0004	.0084
Stddev	.01	.0003	.0004	.0001	.0011	.0002	.0000
%RSD	.0622	55.63	.2394	77.33	358.0	53.72	.4002
#1	10.69	-.0007	.1867	.0001	-.0001	.0006	.0083
#2	10.70	-.0002	.1864	.0002	.0007	.0005	.0084
#3	10.69	-.0005	.1858	.0000	-.0014	.0002	.0084

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	2531.1	6621.5	41273.	3243.1
Stddev	6.1	13.8	83.	10.4
%RSD	.23927	.20814	.20076	.32139
#1	2526.1	6618.0	41206.	3254.6
#2	2529.4	6609.8	41247.	3234.2
#3	2537.8	6636.7	41366.	3240.5

Zoom In Zoom Out

Sample Name: FA23223-6 Acquired: 4/3/2015 11:03:51 Type: Unk
Method: 60102007_041712(v214) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	.0004	.0036	.0009	.0088	.0001	96.71	.0000	.0003	.0005	.0004
Stddev	.0001	.0165	.0008	.0001	.0001	.39	.000	.0000	.0004	.0004
%RSD	32.72	457.6	92.73	1.631	49.25	.4056	86.42	5.922	75.94	113.1
#1	.0005	-.0073	.0018	.0090	.0002	96.91	.0000	.0003	.0009	.0005
#2	.0004	-.0045	.0001	.0088	.0001	96.95	-.0001	.0004	.0006	-.0001
#3	.0003	.0226	.0008	.0087	.0001	96.25	.0000	.0003	.0001	.0007

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	9.463	1.605	52.96	.1474	-.0020	30.20	.0068	-.0032	-.0039	.0003
Stddev	.033	.014	.17	.0003	.0001	.11	.0002	.0007	.0001	.0019
%RSD	.3518	.8916	.3142	.2193	3.176	.3798	2.501	20.78	2.622	722.3
#1	9.489	1.597	53.05	.1470	-.0020	30.23	.0067	-.0032	-.0040	.0022
#2	9.475	1.596	53.05	.1476	-.0019	30.30	.0068	-.0025	-.0040	.0002
#3	9.425	1.621	52.77	.1475	-.0019	30.07	.0070	-.0038	-.0038	-.0016

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	13.15	-.0005	.0919	.0003	-.0001	.0002	.0066
Stddev	.01	.0002	.0006	.0002	.0003	.0003	.0001
%RSD	.0538	36.01	.6742	54.40	183.8	186.2	.7874
#1	13.15	-.0006	.0919	.0004	-.0002	.0001	.0066
#2	13.16	-.0006	.0925	.0001	-.0003	-.0001	.0067
#3	13.15	-.0003	.0913	.0005	.0001	.0005	.0066

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	2617.4	6771.2	41852.	3229.9
Stddev	6.2	14.0	97.	15.0
%RSD	.23685	.20685	.23130	.46311
#1	2610.5	6760.8	41839.	3212.7
#2	2619.0	6765.7	41955.	3239.3
#3	2622.6	6787.2	41762.	3237.8

Zoom In Zoom Out

Sample Name: FA23223-7 Acquired: 4/3/2015 11:07:58 Type: Unk
Method: 60102007_041712(v214) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)
Avg	.0009	.0954	.0379	.0006	.0001	64.06	.0004	.0043	.0053
Stddev	.0003	.0149	.0004	.0001	.0000	.18	.0000	.0000	.0002
%RSD	32.75	15.64	1.047	18.41	17.54	.2733	7.388	.4185	3.514
#1	.0010	.0823	.0375	.0006	.0001	64.24	.0004	.0043	.0055
#2	.0011	.1116	.0380	.0007	.0001	64.04	.0004	.0043	.0051
#3	.0005	.0922	.0382	.0005	.0001	63.89	.0004	.0043	.0053

Elem	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
IS Ref	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)
Avg	.0023	.0147	8.857	32.22	.1301	.0079	F227.0	.0297	-.0031
Stddev	.0002	.0009	.043	.20	.0002	.0001	1.8	.0002	.0009
%RSD	9.530	6.284	.4882	.6297	.1780	1.752	.8074	.5698	30.04
#1	.0021	.0136	8.897	32.46	.1302	.0080	227.1	.0295	-.0033
#2	.0022	.0154	8.811	32.12	.1298	.0078	228.8	.0298	-.0020
#3	.0025	.0150	8.862	32.09	.1302	.0080	225.1	.0298	-.0038

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	-.0018	.0107	36.14	-.0006	.0270	.0004	.0021	.1053	.0098
Stddev	.0011	.0013	.02	.0002	.0001	.0000	.0006	.0002	.0001
%RSD	59.15	12.34	.0650	33.49	.2141	13.59	26.93	.2180	.5198
#1	-.0009	.0112	36.13	-.0005	.0270	.0004	.0015	.1053	.0098
#2	-.0030	.0117	36.12	-.0008	.0270	.0003	.0026	.1050	.0099
#3	-.0015	.0092	36.17	-.0004	.0269	.0004	.0023	.1055	.0099

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	2461.2	6753.0	41005.	3242.2
Stddev	3.5	3.8	20.	14.3
%RSD	.14213	.05599	.04853	.44025
#1	2457.1	6748.8	40986.	3231.0
#2	2463.2	6753.9	41025.	3237.4
#3	2463.2	6756.3	41004.	3258.3

Zoom In Zoom Out

Sample Name: FA23223-8 Acquired: 4/3/2015 11:12:13 Type: Unk
Method: 60102007_041712(v214) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	.0003	.0057	.0003	.0080	.0001	76.64	.0000	-.0002	.0004	.0004
Stddev	.0002	.0052	.0005	.0002	.0001	.15	.0001	.0001	.0002	.0002
%RSD	85.22	90.41	180.9	2.258	78.60	.2016	184.1	54.88	49.01	57.73
#1	.0005	-.0001	-.0001	.0082	.0000	76.65	.0001	-.0003	.0006	.0006
#2	.0002	.0098	.0001	.0079	.0002	76.48	.0000	-.0001	.0004	.0001
#3	.0001	.0075	.0009	.0079	.0001	76.78	.0000	-.0001	.0002	.0005

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	13.14	1.428	35.28	.1790	-.0018	28.79	.0048	-.0028	-.0034	.0005
Stddev	.04	.045	.01	.0003	.0001	.02	.0001	.0007	.0003	.0019
%RSD	.3039	3.169	.0355	.1821	4.714	.0782	2.596	25.52	9.572	381.8
#1	13.12	1.382	35.29	.1787	-.0017	28.79	.0047	-.0029	-.0032	.0025
#2	13.11	1.473	35.28	.1793	-.0018	28.77	.0049	-.0021	-.0038	.0003
#3	13.18	1.430	35.27	.1789	-.0019	28.81	.0050	-.0035	-.0033	-.0013

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	10.51	-.0004	.0654	.0002	-.0006	.0004	.0080
Stddev	.00	.0001	.0002	.0002	.0002	.0002	.0000
%RSD	.0174	29.73	.2393	97.08	37.73	52.85	.5060
#1	10.51	-.0005	.0652	.0000	-.0009	.0003	.0080
#2	10.51	-.0003	.0655	.0003	-.0006	.0003	.0080
#3	10.52	-.0004	.0655	.0001	-.0004	.0006	.0080

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	2668.4	6844.0	42529.	3231.7
Stddev	2.1	14.6	110.	6.1
%RSD	.07754	.21364	.25963	.18980
#1	2666.0	6827.1	42550.	3229.3
#2	2669.6	6853.4	42410.	3238.7
#3	2669.6	6851.4	42628.	3227.2

Zoom In Zoom Out

Sample Name: FA23223-9 Acquired: 4/3/2015 11:16:20 Type: Unk
Method: 60102007_041712(v214) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)
Avg	.0004	.0134	.0122	.0024	.0001	151.6	.0003	.0005	.0018
Stddev	.0001	.0072	.0010	.0000	.0001	.4	.0000	.0001	.0001
%RSD	23.01	53.63	7.950	1.942	122.5	.2667	3.930	10.53	7.133
#1	.0005	.0214	.0131	.0025	.0002	151.5	.0003	.0005	.0018
#2	.0004	.0073	.0112	.0025	.0001	151.3	.0003	.0006	.0020
#3	.0003	.0116	.0124	.0024	.0000	152.1	.0004	.0005	.0017

Elem	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
IS Ref	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)
Avg	.0015	10.14	5.663	64.47	.2588	.0101	F174.7	.0218	-.0040
Stddev	.0002	.04	.024	.21	.0007	.0001	2.1	.0002	.0006
%RSD	15.09	.3953	.4193	.3278	.2682	.9977	1.184	1.093	15.60
#1	.0014	10.13	5.680	64.47	.2584	.0100	175.3	.0216	-.0046
#2	.0018	10.11	5.636	64.25	.2584	.0102	172.4	.0217	-.0038
#3	.0014	10.19	5.672	64.68	.2596	.0100	176.5	.0221	-.0034

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	-.0027	.0028	22.78	-.0007	.1207	.0003	.0001	.0102	.0089
Stddev	.0010	.0012	.03	.0002	.0004	.0001	.0004	.0001	.0001
%RSD	37.48	42.87	.1443	28.48	.3515	40.35	293.3	.7710	.7951
#1	-.0024	.0041	22.81	-.0005	.1205	.0002	.0001	.0102	.0088
#2	-.0018	.0025	22.79	-.0008	.1203	.0004	-.0003	.0102	.0089
#3	-.0038	.0018	22.74	-.0008	.1211	.0003	.0006	.0103	.0090

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	2452.9	6705.6	41032.	3193.2
Stddev	6.9	5.2	42.	16.4
%RSD	.28215	.07781	.10337	.51494
#1	2460.7	6710.0	41005.	3189.6
#2	2450.4	6706.8	41081.	3211.2
#3	2447.6	6699.8	41010.	3178.9

Zoom In Zoom Out

Sample Name: CCV Acquired: 4/3/2015 11:20:34 Type: QC
Method: 60102007_041712(v214) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2514	41.25	2.123	2.094	2.069	41.21	2.116	2.116	2.031	2.054
Stddev	.0007	.14	.004	.004	.006	.12	.000	.001	.003	.006
%RSD	.2754	.3474	.1730	.1880	.2759	.2988	.0130	.0410	.1569	.2748
#1	.2508	41.33	2.121	2.093	2.070	41.27	2.116	2.117	2.028	2.047
#2	.2514	41.34	2.121	2.098	2.074	41.28	2.116	2.116	2.030	2.058
#3	.2521	41.09	2.127	2.090	2.063	41.07	2.117	2.115	2.034	2.056
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value										
Range										

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	41.44	42.66	41.40	2.056	2.098	41.99	2.131	2.041	2.118	2.121
Stddev	.07	.16	.13	.009	.008	.17	.001	.004	.003	.002
%RSD	.1715	.3790	.3026	.4601	.3897	.3990	.0624	.1728	.1223	.1089
#1	41.40	42.72	41.44	2.051	2.089	42.07	2.132	2.039	2.120	2.122
#2	41.52	42.78	41.50	2.051	2.100	42.11	2.129	2.040	2.115	2.123
#3	41.39	42.47	41.26	2.067	2.105	41.80	2.131	2.045	2.119	2.118
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value										
Range										

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.191	2.154	2.084	2.046	2.074	2.060	2.106
Stddev	.003	.001	.004	.007	.006	.002	.001
%RSD	.1433	.0614	.2158	.3556	.2700	.0853	.0379
#1	2.191	2.153	2.086	2.040	2.073	2.059	2.106
#2	2.188	2.155	2.088	2.043	2.069	2.059	2.107
#3	2.194	2.153	2.079	2.054	2.080	2.062	2.106
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Zoom In Zoom Out

Sample Name: CCV Acquired: 4/3/2015 11:20:34 Type: QC
Method: 60102007_041712(v214) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2515.6	6897.7	42367.	3228.0
Stddev	4.5	2.0	60.	20.7
%RSD	.17936	.02897	.14079	.64225
#1	2516.6	6895.4	42399.	3207.3
#2	2519.5	6899.0	42404.	3227.9
#3	2510.7	6898.8	42298.	3248.8

Zoom In Zoom Out

Sample Name: CCB Acquired: 4/3/2015 11:24:30 Type: QC
Method: 60102007_041712(v214) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0001	-.0013	-.0002	.0003	.0001	.0096	.0001	.0001
Stddev	.0004	.0054	.0010	.0002	.0001	.0018	.0000	.0000
%RSD	606.0	420.9	466.6	62.63	88.91	18.67	61.81	30.12
#1	-.0002	-.0073	-.0003	.0003	.0002	.0076	.0001	.0001
#2	.0004	.0004	-.0012	.0005	.0000	.0109	.0000	.0001
#3	-.0004	.0031	.0009	.0001	.0001	.0104	.0001	.0002
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Cr2677	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0002	.0002	.0290	-.0091	-.0333	.0001	F.0028	.0345
Stddev	.0002	.0003	.0057	.0246	.0169	.0000	.0012	.0021
%RSD	89.64	137.3	19.79	271.1	50.63	27.06	44.83	6.221
#1	.0003	-.0001	.0354	-.0369	-.0517	.0001	.0041	.0339
#2	.0000	.0002	.0270	.0097	-.0297	.0001	.0026	.0328
#3	.0004	.0006	.0245	-.0001	-.0185	.0002	.0016	.0369
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit							.0010	
Low Limit							-.0010	

Elem	Ni2316	Pb2203	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000	.0002	F-.0021	.0007	.0054	.0002	.0002	.0009
Stddev	.000	.0006	.0007	.0008	.0005	.0003	.0000	.0001
%RSD	259.6	328.2	33.69	114.8	9.476	174.1	19.73	7.146
#1	.0000	.0003	-.0026	.0004	.0051	.0003	.0001	.0010
#2	.0000	.0007	-.0013	.0001	.0060	.0003	.0002	.0009
#3	-.0001	-.0004	-.0024	.0016	.0051	-.0002	.0002	.0009
Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass
High Limit			.0020					
Low Limit			-.0020					

Zoom In Zoom Out

Sample Name: CCB Acquired: 4/3/2015 11:24:30 Type: QC
Method: 60102007_041712(v214) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm
Avg	.0001	.0000	.0001
Stddev	.0002	.0004	.0000
%RSD	367.0	1017.	47.00
#1	-.0001	-.0002	.0001
#2	.0000	.0006	.0000
#3	.0003	-.0002	.0001
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2989.1	7242.6	44617.	3284.2
Stddev	5.5	8.0	109.	28.1
%RSD	.18410	.11018	.24429	.85543
#1	2983.3	7247.0	44500.	3301.9
#2	2994.2	7247.4	44715.	3298.9
#3	2989.9	7233.4	44635.	3251.9

Zoom In Zoom Out

Sample Name: FA23223-10 Acquired: 4/3/2015 11:28:42 Type: Unk
Method: 60102007_041712(v214) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)
Avg	-.0001	.0202	-.0003	.0168	.0001	135.2	.0001	.0017	.0016
Stddev	.0003	.0128	.0004	.0005	.0001	.4	.0000	.0000	.0001
%RSD	287.0	63.65	151.6	3.182	56.46	.2894	32.83	.9154	5.565
#1	.0002	.0140	-.0006	.0171	.0001	135.0	.0001	.0017	.0017
#2	-.0003	.0115	.0002	.0162	.0002	135.7	.0001	.0017	.0016
#3	-.0003	.0349	-.0005	.0172	.0001	135.0	.0000	.0017	.0016

Elem	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
IS Ref	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)
Avg	.0007	27.43	3.005	59.03	.3886	-.0011	F103.5	.0172	-.0027
Stddev	.0001	.05	.012	.14	.0013	.0001	.4	.0001	.0004
%RSD	18.30	.1747	.3869	.2310	.3381	8.490	.3426	.5173	14.73
#1	.0008	27.42	3.001	58.89	.3884	-.0010	103.4	.0173	-.0032
#2	.0006	27.49	3.019	59.17	.3900	-.0011	103.9	.0172	-.0024
#3	.0009	27.39	2.997	59.03	.3874	-.0012	103.2	.0171	-.0026

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	-.0033	.0014	23.94	-.0005	.1234	.0010	-.0010	.0027	.0090
Stddev	.0007	.0012	.03	.0001	.0007	.0000	.0010	.0001	.0001
%RSD	21.93	83.31	.1150	15.09	.5357	2.551	96.26	1.928	.6365
#1	-.0027	.0027	23.97	-.0005	.1234	.0010	-.0015	.0026	.0090
#2	-.0030	.0009	23.92	-.0004	.1240	.0009	.0001	.0027	.0091
#3	-.0041	.0006	23.93	-.0005	.1227	.0010	-.0017	.0027	.0090

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	2516.7	6784.4	41679.	3209.1
Stddev	5.2	12.9	125.	14.1
%RSD	.20715	.19083	.30070	.44026
#1	2519.4	6788.0	41557.	3221.7
#2	2510.7	6770.0	41673.	3211.7
#3	2520.0	6795.1	41807.	3193.8

Zoom In Zoom Out

Sample Name: FA23223-11 Acquired: 4/3/2015 11:32:48 Type: Unk
Method: 60102007_041712(v214) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	.0003	.5765	.0049	.0165	.0001	3.685	.0000	.0006	.0049	.0004
Stddev	.0005	.0084	.0004	.0003	.0001	.006	.0000	.0001	.0003	.0002
%RSD	177.5	1.455	8.359	1.824	79.59	.1769	125.3	12.11	6.092	49.84
#1	.0004	.5861	.0048	.0161	.0002	3.691	.0000	.0005	.0050	.0006
#2	.0007	.5732	.0045	.0167	.0000	3.678	.0000	.0006	.0046	.0002
#3	-.0003	.5703	.0053	.0165	.0001	3.686	.0000	.0006	.0052	.0004

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	3.710	4.638	3.760	.0223	.0002	57.51	.0074	-.0007	-.0029	.0012
Stddev	.010	.025	.046	.0001	.0001	.13	.0003	.0001	.0007	.0002
%RSD	.2808	.5368	1.234	.3090	30.12	.2209	3.393	9.314	22.97	18.07
#1	3.720	4.610	3.707	.0223	.0003	57.46	.0072	-.0007	-.0023	.0011
#2	3.699	4.645	3.780	.0224	.0002	57.42	.0073	-.0006	-.0036	.0014
#3	3.711	4.658	3.793	.0223	.0002	57.66	.0077	-.0007	-.0028	.0010

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	13.65	-.0003	.0210	.0110	-.0009	.0079	.0093
Stddev	.01	.0001	.0001	.0002	.0003	.0001	.0001
%RSD	.0688	32.36	.2884	1.602	34.87	.9201	.5484
#1	13.65	-.0002	.0210	.0109	-.0006	.0079	.0092
#2	13.64	-.0002	.0209	.0112	-.0008	.0078	.0093
#3	13.66	-.0004	.0210	.0111	-.0012	.0080	.0093

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	2727.8	7074.2	43329.	3286.5
Stddev	9.7	10.6	159.	38.9
%RSD	.35459	.14958	.36666	1.1850
#1	2729.4	7075.7	43159.	3331.0
#2	2717.4	7062.9	43474.	3269.9
#3	2736.6	7083.9	43353.	3258.6

Zoom In Zoom Out

Sample Name: FA23223-12 Acquired: 4/3/2015 11:36:57 Type: Unk
Method: 60102007_041712(v214) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)
Avg	.0006	.3152	.0092	.1838	.0002	185.7	.0006	.0043	.0077
Stddev	.0006	.0137	.0002	.0003	.0001	.5	.0001	.0002	.0002
%RSD	94.24	4.362	1.886	.1413	78.81	.2801	11.66	4.310	2.305
#1	.0009	.3035	.0091	.1835	.0003	185.5	.0006	.0041	.0076
#2	.0009	.3303	.0094	.1840	.0001	185.3	.0005	.0044	.0075
#3	-.0001	.3117	.0091	.1839	.0001	186.3	.0006	.0043	.0079

Elem	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
IS Ref	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)
Avg	.0028	103.4	F462.8	34.79	.0832	-.0007	F152.2	.0234	-.0032
Stddev	.0002	.3	.7	.10	.0001	.0002	.1	.0001	.0005
%RSD	7.310	.3120	.1607	.2886	.0876	27.85	.0871	.4623	14.27
#1	.0028	103.2	462.3	34.80	.0831	-.0010	152.2	.0236	-.0035
#2	.0026	103.3	462.4	34.69	.0831	-.0006	152.1	.0233	-.0034
#3	.0030	103.8	463.6	34.89	.0832	-.0006	152.3	.0234	-.0026

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	-.0050	.0064	4.344	.0001	.0908	.0016	-.0020	.0408	.0127
Stddev	.0008	.0004	.006	.0002	.0003	.0000	.0005	.0001	.0001
%RSD	16.44	5.822	.1279	150.1	.3847	2.418	24.56	.2649	.3937
#1	-.0043	.0063	4.342	.0002	.0904	.0015	-.0022	.0407	.0127
#2	-.0059	.0061	4.340	.0003	.0909	.0016	-.0014	.0408	.0128
#3	-.0047	.0068	4.351	-.0001	.0911	.0015	-.0023	.0409	.0128

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	2336.4	6482.6	39298.	3172.8
Stddev	3.3	2.1	161.	28.1
%RSD	.13962	.03174	.41010	.88492
#1	2333.3	6481.0	39123.	3156.1
#2	2339.8	6481.8	39440.	3205.3
#3	2336.0	6484.9	39331.	3157.1

Zoom In Zoom Out

Sample Name: FA23223-13 Acquired: 4/3/2015 11:41:03 Type: Unk
Method: 60102007_041712(v214) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)
Avg	.0003	.3332	.0093	.1848	.0001	185.8	.0006	.0042
Stddev	.0005	.0155	.0003	.0010	.0000	.6	.0001	.0000
%RSD	151.4	4.661	3.096	.5234	25.62	.3393	13.70	.8364
#1	.0001	.3153	.0090	.1839	.0002	185.3	.0006	.0042
#2	.0000	.3427	.0094	.1846	.0001	186.5	.0006	.0042
#3	.0009	.3416	.0095	.1858	.0001	185.7	.0005	.0043

Elem	Cr2677	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)
Avg	.0075	.0030	103.8	F457.6	34.66	.0827	-.0008	F150.5
Stddev	.0005	.0004	.4	1.4	.10	.0001	.0002	.6
%RSD	7.027	11.99	.3449	.2998	.2898	.1150	30.48	.3719
#1	.0071	.0026	103.4	456.9	34.55	.0826	-.0011	150.3
#2	.0081	.0033	104.1	459.2	34.72	.0828	-.0007	151.2
#3	.0074	.0030	103.9	456.7	34.72	.0828	-.0006	150.1

Elem	Ni2316	Pb2203	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)
Avg	.0236	-.0031	F-.0055	.0076	4.332	.0001	.0913	.0015
Stddev	.0001	.0005	.0014	.0006	.003	.0000	.0004	.0001
%RSD	.2714	16.20	24.90	8.278	.0570	22.93	.4374	4.334
#1	.0235	-.0027	-.0040	.0068	4.335	.0001	.0909	.0014
#2	.0236	-.0037	-.0061	.0078	4.331	.0001	.0917	.0016
#3	.0236	-.0029	-.0066	.0080	4.330	.0001	.0911	.0015

Elem	Tl1908	V_2924	Zn2062
IS Ref	(In2306)	(Y_3600)	(Y_2243)
Avg	-.0012	.0406	.0141
Stddev	.0008	.0001	.0000
%RSD	67.39	.3558	.2865
#1	-.0014	.0406	.0141
#2	-.0018	.0404	.0142
#3	-.0003	.0407	.0141

Zoom In Zoom Out

Sample Name: FA23223-13 Acquired: 4/3/2015 11:41:03 Type: Unk
Method: 60102007_041712(v214) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	2335.3	6480.1	39238.	3188.2
Stddev	5.1	14.3	104.	17.1
%RSD	.21898	.22032	.26442	.53517
#1	2330.4	6466.4	39348.	3192.7
#2	2340.6	6494.9	39224.	3169.3
#3	2335.0	6478.9	39142.	3202.5

Zoom In Zoom Out

Sample Name: FA23223-14 Acquired: 4/3/2015 11:45:08 Type: Unk
Method: 60102007_041712(v214) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)
Avg	.0006	1.934	.0799	.0003	.0001	174.1	.0013	.0776
Stddev	.0004	.005	.0001	.0002	.0001	.3	.0001	.0001
%RSD	77.91	.2419	.1433	55.79	52.14	.1605	4.852	.1636
#1	.0001	1.939	.0798	.0003	.0002	174.1	.0013	.0775
#2	.0006	1.929	.0799	.0002	.0001	173.8	.0014	.0777
#3	.0010	1.934	.0800	.0005	.0001	174.3	.0012	.0777

Elem	Cr2677	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)
Avg	.0011	.0046	170.2	F98.47	65.64	.2455	.0004	F156.7
Stddev	.0003	.0004	.4	.31	.11	.0007	.0001	.3
%RSD	27.87	8.115	.2436	.3139	.1628	.2656	32.05	.1874
#1	.0012	.0048	170.3	98.76	65.74	.2455	.0005	157.0
#2	.0013	.0049	169.7	98.50	65.53	.2449	.0004	156.6
#3	.0007	.0042	170.5	98.14	65.67	.2462	.0003	156.5

Elem	Ni2316	Pb2203	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)
Avg	.1134	-.0033	F-.0052	.0043	35.94	-.0001	.0455	.0020
Stddev	.0001	.0002	.0006	.0008	.05	.0002	.0002	.0003
%RSD	.1138	5.940	11.67	18.73	.1498	246.9	.4087	14.30
#1	.1134	-.0034	-.0046	.0041	35.93	.0002	.0456	.0020
#2	.1136	-.0035	-.0053	.0052	35.89	-.0003	.0453	.0024
#3	.1134	-.0031	-.0058	.0037	36.00	-.0001	.0456	.0018

Elem	Tl1908	V_2924	Zn2062
IS Ref	(In2306)	(Y_3600)	(Y_2243)
Avg	-.0012	.0139	.0167
Stddev	.0005	.0002	.0001
%RSD	45.65	1.383	.3156
#1	-.0006	.0141	.0167
#2	-.0012	.0138	.0167
#3	-.0016	.0138	.0168

Zoom In Zoom Out

Sample Name: FA23223-14 Acquired: 4/3/2015 11:45:08 Type: Unk
Method: 60102007_041712(v214) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	2404.4	6607.0	40372.	3206.8
Stddev	5.0	8.7	27.	26.9
%RSD	.20667	.13216	.06630	.84037
#1	2407.6	6601.6	40357.	3189.6
#2	2407.0	6617.1	40355.	3237.8
#3	2398.7	6602.3	40403.	3192.9

Zoom In Zoom Out

Sample Name: FA23223-15 Acquired: 4/3/2015 11:49:13 Type: Unk
Method: 60102007_041712(v214) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)
Avg	.0003	1.992	.0779	.0004	.0001	172.6	.0013	.0759
Stddev	.0000	.008	.0005	.0004	.0001	.8	.0001	.0002
%RSD	10.54	.3938	.6962	108.3	138.5	.4545	3.866	.2341
#1	.0003	2.001	.0783	.0003	.0000	173.3	.0013	.0758
#2	.0003	1.990	.0782	.0000	.0001	172.8	.0013	.0761
#3	.0004	1.986	.0773	.0008	.0001	171.7	.0014	.0758

Elem	Cr2677	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)
Avg	.0011	.0046	167.5	F97.06	66.17	.2420	.0005	F157.9
Stddev	.0001	.0003	.7	.18	.33	.0006	.0002	.5
%RSD	9.274	6.571	.4175	.1887	.5042	.2515	36.11	.3146
#1	.0011	.0049	168.1	97.27	66.38	.2421	.0007	158.4
#2	.0011	.0047	167.6	96.95	66.34	.2425	.0003	157.7
#3	.0013	.0043	166.7	96.95	65.79	.2413	.0005	157.4

Elem	Ni2316	Pb2203	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)
Avg	.1135	-.0036	F-.0061	.0038	35.84	.0000	.0469	.0022
Stddev	.0003	.0005	.0004	.0017	.04	.000	.0003	.0002
%RSD	.2212	14.19	6.399	43.48	.1119	776.5	.6683	9.826
#1	.1137	-.0030	-.0056	.0026	35.80	-.0001	.0471	.0021
#2	.1135	-.0038	-.0064	.0031	35.88	-.0001	.0469	.0020
#3	.1132	-.0040	-.0062	.0057	35.85	.0001	.0465	.0024

Elem	Tl1908	V_2924	Zn2062
IS Ref	(In2306)	(Y_3600)	(Y_2243)
Avg	-.0011	.0138	.0165
Stddev	.0006	.0001	.0000
%RSD	53.74	.9322	.1348
#1	-.0017	.0138	.0165
#2	-.0005	.0137	.0165
#3	-.0011	.0139	.0165

Zoom In Zoom Out

Sample Name: FA23223-15 Acquired: 4/3/2015 11:49:13 Type: Unk
Method: 60102007_041712(v214) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	2403.4	6588.6	40428.	3174.3
Stddev	4.8	8.6	39.	29.6
%RSD	.19926	.13091	.09683	.93215
#1	2406.9	6595.4	40468.	3156.5
#2	2405.4	6591.4	40390.	3158.1
#3	2397.9	6578.9	40426.	3208.5

Zoom In Zoom Out

Sample Name: FA23223-2F Acquired: 4/3/2015 11:53:19 Type: Unk
Method: 60102007_041712(v214) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)
Avg	-.0003	.0383	-.0009	.0083	.0000	329.2	-.0003	.0002	.0016
Stddev	.0001	.0098	.0005	.0001	.0001	.2	.0001	.0001	.0002
%RSD	47.50	25.62	58.70	1.692	156.1	.0721	23.29	44.20	11.70
#1	-.0003	.0495	-.0012	.0085	.0001	329.5	-.0004	.0001	.0018
#2	-.0002	.0314	-.0003	.0082	.0000	329.0	-.0002	.0003	.0015
#3	-.0005	.0340	-.0012	.0083	.0001	329.3	-.0002	.0001	.0014

Elem	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
IS Ref	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)
Avg	.0004	2.440	3.780	72.08	.0688	-.0024	F198.0	.0012	-.0047
Stddev	.0002	.025	.028	.31	.0002	.0002	3.0	.0001	.0003
%RSD	46.40	1.006	.7276	.4326	.2348	6.272	1.540	9.115	6.024
#1	.0003	2.466	3.752	72.35	.0690	-.0025	199.5	.0012	-.0046
#2	.0003	2.436	3.807	72.16	.0688	-.0022	200.0	.0013	-.0046
#3	.0006	2.417	3.783	71.74	.0686	-.0025	194.5	.0011	-.0050

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	-.0026	.0012	5.518	-.0005	.2838	.0003	-.0016	.0028	.0066
Stddev	.0003	.0012	.009	.0003	.0004	.0001	.0007	.0002	.0001
%RSD	12.53	95.54	.1580	50.63	.1460	32.53	44.84	5.533	.9953
#1	-.0030	.0009	5.528	-.0003	.2835	.0003	-.0011	.0030	.0067
#2	-.0024	.0025	5.516	-.0005	.2835	.0004	-.0013	.0027	.0067
#3	-.0025	.0003	5.511	-.0008	.2842	.0002	-.0024	.0028	.0065

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	2350.1	6327.6	39303.	3116.0
Stddev	5.3	15.8	175.	22.2
%RSD	.22561	.24911	.44594	.71263
#1	2356.2	6333.8	39146.	3091.1
#2	2347.7	6309.7	39273.	3123.0
#3	2346.4	6339.3	39492.	3133.8

Zoom In Zoom Out

Sample Name: FA23223-3F Acquired: 4/3/2015 11:57:35 Type: Unk
Method: 60102007_041712(v214) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	.0001	.1134	.0000	.0085	.0000	30.76	.0000	.0011	.0023	.0005
Stddev	.0001	.0035	.0009	.0001	.000	.04	.0001	.0001	.0002	.0002
%RSD	82.05	3.113	4102.	1.341	98.03	.1249	270.2	9.138	10.44	51.16
#1	.0001	.1103	.0009	.0086	-.0001	30.76	.0001	.0011	.0026	.0003
#2	.0002	.1126	-.0008	.0084	-.0001	30.72	.0000	.0011	.0022	.0007
#3	.0000	.1172	-.0001	.0086	.0000	30.80	.0000	.0013	.0022	.0004

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	8.635	.8415	3.437	.0201	-.0014	50.26	.0000	-.0017	-.0033	.0011
Stddev	.001	.0402	.034	.0000	.0000	.04	.0001	.0002	.0003	.0010
%RSD	.0086	4.773	.9843	.2058	2.597	.0755	978.6	12.45	9.254	92.12
#1	8.635	.8448	3.460	.0200	-.0014	50.23	.0000	-.0018	-.0036	.0002
#2	8.636	.7998	3.398	.0201	-.0014	50.26	.0002	-.0018	-.0030	.0023
#3	8.635	.8799	3.452	.0201	-.0014	50.30	-.0001	-.0015	-.0032	.0009

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	2.569	-.0005	.0314	.0002	-.0010	.0025	.0092
Stddev	.001	.0002	.0001	.0001	.0001	.0001	.0000
%RSD	.0353	49.59	.3416	23.31	9.758	5.450	.5325
#1	2.568	-.0005	.0313	.0002	-.0011	.0024	.0091
#2	2.570	-.0003	.0315	.0003	-.0009	.0024	.0092
#3	2.569	-.0007	.0314	.0002	-.0009	.0026	.0091

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	2697.2	6928.7	42907.	3195.2
Stddev	2.2	8.5	214.	20.2
%RSD	.08329	.12293	.49902	.63087
#1	2694.7	6933.8	43150.	3216.9
#2	2698.8	6933.5	42825.	3191.8
#3	2698.3	6918.9	42746.	3177.0

Zoom In Zoom Out

Sample Name: FA23223-4F Acquired: 4/3/2015 12:01:44 Type: Unk
Method: 60102007_041712(v214) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	.0001	.0437	-.0013	.0158	.0000	68.67	.0000	-.0003	.0008	.0006
Stddev	.0001	.0144	.0007	.0003	.000	.36	.0000	.0001	.0001	.0003
%RSD	95.52	32.99	49.23	1.614	232.1	.5300	308.1	31.32	12.79	54.89
#1	.0001	.0522	-.0017	.0160	.0000	68.29	.0000	-.0002	.0008	.0007
#2	.0002	.0518	-.0018	.0155	.0000	68.70	.0000	-.0004	.0009	.0009
#3	.0000	.0270	-.0006	.0159	-.0001	69.02	.0001	-.0003	.0007	.0002

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	7.511	1.410	28.77	.1320	-.0020	16.70	-.0001	-.0029	-.0030	.0012
Stddev	.023	.021	.07	.0003	.0001	.05	.0001	.0004	.0004	.0013
%RSD	.3081	1.500	.2454	.2391	3.167	.3199	80.53	14.53	11.84	107.7
#1	7.488	1.407	28.69	.1320	-.0020	16.64	.0000	-.0025	-.0034	.0012
#2	7.510	1.432	28.83	.1324	-.0021	16.72	-.0001	-.0033	-.0030	.0025
#3	7.534	1.390	28.78	.1317	-.0020	16.73	-.0001	-.0030	-.0026	-.0001

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	7.977	-.0005	.0918	.0002	-.0002	.0012	.0103
Stddev	.006	.0002	.0004	.0001	.0001	.0002	.0000
%RSD	.0787	32.14	.3923	32.47	85.94	21.05	.3382
#1	7.983	-.0004	.0914	.0002	-.0001	.0011	.0103
#2	7.977	-.0005	.0921	.0003	.0000	.0010	.0103
#3	7.970	-.0007	.0919	.0002	-.0003	.0014	.0104

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	2690.6	6843.2	42656.	3196.6
Stddev	6.7	11.4	193.	20.7
%RSD	.25071	.16609	.45276	.64904
#1	2685.0	6846.4	42578.	3207.0
#2	2688.6	6830.6	42513.	3210.1
#3	2698.1	6852.7	42875.	3172.7

Zoom In Zoom Out

Sample Name: FA23223-5F Acquired: 4/3/2015 12:05:51 Type: Unk
Method: 60102007_041712(v214) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	.0003	.0250	.0005	.0278	.0001	179.4	.0000	.0052	.0004	.0005
Stddev	.0005	.0048	.0004	.0002	.0000	.4	.0000	.0001	.0001	.0004
%RSD	143.7	19.14	81.16	.6763	39.14	.2222	25.56	2.747	31.85	70.52
#1	.0007	.0242	.0001	.0280	.0001	179.8	.0000	.0054	.0004	.0009
#2	-.0002	.0301	.0009	.0276	.0002	179.5	.0000	.0051	.0005	.0003
#3	.0004	.0207	.0004	.0277	.0001	179.0	.0000	.0053	.0002	.0003

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	24.72	2.392	83.69	.4374	-.0017	51.74	.0194	-.0030	-.0033	.0006
Stddev	.07	.031	.46	.0007	.0001	.16	.0001	.0006	.0001	.0005
%RSD	.2862	1.307	.5470	.1517	7.355	.3030	.6830	21.29	2.059	77.91
#1	24.79	2.366	83.96	.4368	-.0018	51.87	.0195	-.0035	-.0034	.0001
#2	24.72	2.383	83.95	.4372	-.0015	51.80	.0196	-.0032	-.0033	.0006
#3	24.65	2.427	83.16	.4381	-.0017	51.57	.0193	-.0023	-.0033	.0010

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	10.52	-.0006	.1912	.0003	-.0009	.0006	.0086
Stddev	.01	.0003	.0005	.0001	.0010	.0002	.0000
%RSD	.0968	58.38	.2508	18.16	112.9	31.79	.3695
#1	10.52	-.0002	.1917	.0004	-.0019	.0005	.0086
#2	10.50	-.0009	.1913	.0004	-.0007	.0008	.0085
#3	10.52	-.0006	.1907	.0003	.0000	.0004	.0086

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	2500.6	6612.7	40760.	3124.8
Stddev	1.5	5.9	44.	26.3
%RSD	.05967	.08889	.10779	.84184
#1	2502.2	6606.8	40724.	3103.3
#2	2500.1	6618.6	40809.	3117.0
#3	2499.4	6612.8	40747.	3154.1

Zoom In Zoom Out

Sample Name: CCV Acquired: 4/3/2015 12:09:55 Type: QC
Method: 60102007_041712(v214) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2540	42.13	2.099	2.102	2.088	41.83	2.116	2.117	2.075	2.082
Stddev	.0003	.05	.004	.004	.004	.06	.002	.003	.003	.002
%RSD	.1191	.1231	.1792	.1965	.1887	.1549	.0849	.1314	.1609	.0930
#1	.2544	42.19	2.095	2.105	2.092	41.90	2.114	2.115	2.077	2.080
#2	.2539	42.14	2.098	2.098	2.085	41.77	2.116	2.117	2.078	2.083
#3	.2538	42.08	2.103	2.104	2.086	41.84	2.117	2.120	2.072	2.083
Check ?	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass
Value																				
Range																				

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	41.80	43.47	41.42	2.079	2.095	43.02	2.116	2.041	2.109	2.105
Stddev	.06	.05	.01	.002	.011	.10	.004	.004	.007	.005
%RSD	.1479	.1103	.0358	.0793	.5192	.2272	.1741	.1701	.3312	.2405
#1	41.86	43.46	41.40	2.080	2.083	43.13	2.112	2.040	2.103	2.100
#2	41.74	43.52	41.42	2.077	2.097	42.94	2.117	2.045	2.108	2.110
#3	41.80	43.42	41.43	2.079	2.104	42.99	2.118	2.038	2.117	2.106
Check ?	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass
Value																				
Range																				

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.173	2.123	2.121	2.078	2.081	2.070	2.105
Stddev	.004	.005	.004	.001	.002	.004	.002
%RSD	.1857	.2383	.2016	.0662	.1119	.2035	.0925
#1	2.169	2.117	2.126	2.078	2.080	2.073	2.103
#2	2.173	2.126	2.117	2.076	2.084	2.072	2.106
#3	2.177	2.126	2.120	2.079	2.080	2.066	2.107
Check ?	None	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass
Value											
Range											

Zoom In Zoom Out

Sample Name: CCV Acquired: 4/3/2015 12:09:55 Type: QC
Method: 60102007_041712(v214) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2500.5	6883.2	41578.	3146.7
Stddev	7.2	10.7	112.	16.9
%RSD	.28690	.15552	.26894	.53791
#1	2504.8	6893.6	41539.	3153.5
#2	2492.2	6872.2	41491.	3127.4
#3	2504.6	6883.8	41704.	3159.2

Zoom In Zoom Out

Sample Name: CCB Acquired: 4/3/2015 12:13:52 Type: QC
Method: 60102007_041712(v214) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0002	-.0032	-.0010	.0003	.0002	.0090	.0001	.0001
Stddev	.0004	.0173	.0002	.0001	.0001	.0012	.0000	.0000
%RSD	160.8	535.4	18.58	25.80	57.31	13.56	7.761	55.38
#1	.0006	-.0076	-.0011	.0003	.0003	.0103	.0001	.0001
#2	-.0001	-.0179	-.0011	.0002	.0001	.0079	.0001	.0000
#3	.0002	.0158	-.0008	.0003	.0002	.0089	.0001	.0001
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Cr2677	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0001	.0003	.0266	.0770	-.0205	.0001	F.0026	.0264
Stddev	.0003	.0003	.0130	.0038	.0138	.0000	.0013	.0016
%RSD	213.9	99.45	48.78	5.002	67.02	35.48	50.40	6.089
#1	-.0001	.0006	.0409	.0735	-.0243	.0001	.0041	.0265
#2	.0004	.0005	.0233	.0762	-.0320	.0001	.0023	.0247
#3	.0001	.0000	.0156	.0811	-.0053	.0001	.0015	.0279
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit							.0010	
Low Limit							-.0010	

Elem	Ni2316	Pb2203	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0001	.0002	F-.0023	-.0010	.0051	.0001	.0002	.0009
Stddev	.0001	.0004	.0007	.0007	.0007	.0002	.0001	.0002
%RSD	161.9	229.9	29.02	72.22	14.02	138.8	40.23	23.07
#1	-.0002	-.0001	-.0017	-.0004	.0045	.0000	.0001	.0011
#2	.0000	.0007	-.0022	-.0017	.0059	.0003	.0002	.0010
#3	-.0001	-.0001	-.0030	-.0008	.0049	.0001	.0003	.0007
Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass
High Limit			.0020					
Low Limit			-.0020					

Zoom In Zoom Out

Sample Name: CCB Acquired: 4/3/2015 12:13:52 Type: QC
Method: 60102007_041712(v214) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm
Avg	.0004	-.0002	.0000
Stddev	.0005	.0004	.0000
%RSD	131.0	163.3	170.1
#1	.0002	-.0006	.0000
#2	.0000	.0001	.0000
#3	.0010	-.0001	.0000
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2959.8	7187.4	44363.	3195.3
Stddev	2.7	10.4	107.	29.1
%RSD	.09262	.14458	.24007	.91085
#1	2962.5	7192.7	44407.	3203.0
#2	2957.0	7175.4	44441.	3219.9
#3	2959.9	7194.1	44242.	3163.2

Zoom In Zoom Out

Sample Name: FA23223-6F Acquired: 4/3/2015 12:31:58 Type: Unk
Method: 60102007_041712(v214) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	-.0001	.0052	.0021	.0099	.0001	100.3	.0000	.0005	.0005	.0007
Stddev	.0002	.0164	.0004	.0001	.0002	.3	.0001	.0001	.0001	.0001
%RSD	312.5	314.2	19.60	.7999	159.5	.2937	822.5	15.56	10.55	18.49
#1	.0000	.0211	.0026	.0098	.0003	100.3	-.0001	.0004	.0005	.0009
#2	.0001	-.0116	.0021	.0099	.0000	100.6	.0000	.0005	.0005	.0007
#3	-.0003	.0062	.0017	.0099	.0000	100.0	.0001	.0005	.0006	.0006

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	9.981	1.788	53.61	.1554	-.0018	32.14	.0080	-.0030	-.0027	-.0002
Stddev	.037	.019	.27	.0006	.0001	.07	.0001	.0012	.0010	.0015
%RSD	.3751	1.065	.5018	.3564	5.640	.2088	.7062	38.66	35.67	686.2
#1	9.964	1.788	53.80	.1560	-.0017	32.13	.0080	-.0017	-.0037	-.0012
#2	10.02	1.807	53.74	.1550	-.0019	32.21	.0079	-.0040	-.0027	.0016
#3	9.954	1.769	53.31	.1553	-.0018	32.07	.0081	-.0033	-.0018	-.0011

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	13.02	-.0002	.0951	.0004	-.0002	.0005	.0085
Stddev	.01	.0002	.0001	.0001	.0002	.0001	.0001
%RSD	.0431	84.04	.0930	18.00	88.73	26.45	1.050
#1	13.02	-.0001	.0952	.0004	.0000	.0006	.0086
#2	13.03	-.0005	.0951	.0005	-.0004	.0004	.0084
#3	13.02	-.0001	.0950	.0004	-.0003	.0004	.0084

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	2569.8	6724.3	40899.	3064.2
Stddev	1.6	6.8	89.	21.9
%RSD	.06079	.10114	.21747	.71356
#1	2568.1	6719.7	40798.	3052.3
#2	2570.1	6721.2	40968.	3051.0
#3	2571.1	6732.1	40931.	3089.5

Zoom In Zoom Out

Sample Name: MP28753-MB1 Acquired: 4/3/2015 12:36:05 Type: QC
Method: 60102007_041712(v214) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0003	-.0016	-.0017	.0004	.0000	.0379	-.0001	-.0001
Stddev	.0002	.0019	.0005	.0003	.000	.0066	.0000	.0001
%RSD	52.91	119.7	30.73	71.22	290.2	17.45	31.46	113.2
#1	-.0003	-.0037	-.0019	.0008	-.0001	.0443	-.0001	-.0001
#2	-.0006	-.0003	-.0021	.0003	.0001	.0311	-.0001	.0000
#3	-.0002	-.0007	-.0011	.0003	-.0001	.0381	.0000	-.0001
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Cr2677	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0006	.0005	.0129	.0871	.0263	.0004	-.0014	.0047
Stddev	.0001	.0001	.0012	.0091	.0138	.0000	.0000	.0072
%RSD	24.35	24.12	9.583	10.44	52.58	6.071	3.099	154.0
#1	.0007	.0004	.0142	.0975	.0191	.0004	-.0014	.0001
#2	.0005	.0007	.0117	.0835	.0423	.0004	-.0013	.0010
#3	.0006	.0005	.0127	.0804	.0176	.0004	-.0014	.0130
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Ni2316	Pb2203	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0001	.0000	F-.0038	.0008	.0220	.0230	.0001	-.0005
Stddev	.0002	.000	.0009	.0004	.0004	.0001	.0001	.0001
%RSD	212.8	3294.	23.47	47.89	1.598	.3612	107.4	17.13
#1	.0001	.0000	-.0046	.0013	.0221	.0229	.0000	-.0005
#2	-.0003	-.0002	-.0040	.0006	.0216	.0231	.0001	-.0004
#3	-.0001	.0002	-.0028	.0006	.0222	.0229	.0002	-.0005
Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass
High Limit			.0025					
Low Limit			-.0025					

Zoom In
Zoom Out

Sample Name: MP28753-MB1 Acquired: 4/3/2015 12:36:05 Type: QC
Method: 60102007_041712(v214) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm
Avg	-.0017	.0000	.0006
Stddev	.0007	.000	.0000
%RSD	39.07	239.5	3.219
#1	-.0009	.0000	.0006
#2	-.0020	.0000	.0006
#3	-.0021	-.0001	.0007
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2954.5	7202.4	43815.	3182.3
Stddev	4.6	13.8	141.	18.9
%RSD	.15439	.19161	.32292	.59532
#1	2949.8	7200.1	43830.	3163.3
#2	2958.9	7217.2	43666.	3201.2
#3	2954.7	7189.9	43948.	3182.3

Zoom In
Zoom Out

Sample Name: MP28753-B1 Acquired: 4/3/2015 12:40:17 Type: QC
Method: 60102007_041712(v214) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0506	28.99	2.101	2.192	.0548	26.82	.0532	.5413	.2195	.2761
Stddev	.0005	.12	.005	.006	.0003	.07	.0001	.0005	.0004	.0011
%RSD	1.085	.4225	.2327	.2578	.4810	.2603	.1037	.0870	.1952	.4041
#1	.0504	28.84	2.106	2.187	.0548	26.74	.0531	.5417	.2192	.2772
#2	.0503	29.04	2.097	2.198	.0550	26.84	.0532	.5408	.2193	.2760
#3	.0513	29.07	2.099	2.190	.0545	26.88	.0532	.5415	.2199	.2750
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value										
Range										

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	27.75	27.35	26.09	.5358	.5257	27.67	.5436	.5101	.5230	2.084
Stddev	.07	.17	.04	.0017	.0011	.07	.0009	.0019	.0030	.001
%RSD	.2615	.6112	.1640	.3176	.2020	.2422	.1614	.3683	.5713	.0460
#1	27.67	27.16	26.05	.5351	.5259	27.59	.5436	.5122	.5204	2.084
#2	27.79	27.47	26.10	.5345	.5246	27.72	.5427	.5097	.5222	2.083
#3	27.80	27.42	26.13	.5377	.5266	27.69	.5444	.5085	.5263	2.084
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value										
Range										

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0198	.5618	.5361	.5259	2.089	.5168	.5314
Stddev	.0003	.0002	.0016	.0006	.006	.0016	.0007
%RSD	1.681	.0354	.2936	.1153	.2701	.3037	.1236
#1	.0201	.5616	.5343	.5261	2.095	.5158	.5309
#2	.0196	.5617	.5368	.5252	2.085	.5159	.5322
#3	.0195	.5620	.5372	.5264	2.086	.5186	.5312
Check ?	None	Chk Pass	None	None	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Zoom In
Zoom Out

Sample Name: MP28753-B1 Acquired: 4/3/2015 12:40:17 Type: QC
Method: 60102007_041712(v214) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2601.5	6985.7	41752.	3130.0
Stddev	4.5	7.1	208.	16.8
%RSD	.17226	.10175	.49831	.53667
#1	2602.0	6992.4	41864.	3112.1
#2	2596.8	6978.3	41881.	3132.6
#3	2605.7	6986.5	41512.	3145.3

Zoom In
Zoom Out

Sample Name: FA23243-1 Acquired: 4/3/2015 12:44:17 Type: Unk
Method: 60102007_041712(v214) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	-.0005	92.42	.0430	.5768	.0035	39.16	.0012	.0042	.1695	.2842
Stddev	.0004	6.46	.0003	.0403	.0003	2.69	.0003	.0001	.0003	.0007
%RSD	69.64	6.986	.5891	6.991	7.572	6.874	28.73	2.192	.1618	.2361
#1	-.0009	86.78	.0429	.5422	.0033	36.82	.0014	.0043	.1692	.2843
#2	-.0003	99.46	.0433	.6211	.0038	42.10	.0008	.0041	.1698	.2848
#3	-.0003	91.03	.0428	.5671	.0034	38.55	.0012	.0042	.1695	.2835

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	46.03	1.425	13.84	.1156	-.0003	3.927	.0219	.1671	-.0021	.0046
Stddev	3.25	.097	.93	.0001	.0002	.266	.0002	.0018	.0005	.0011
%RSD	7.057	6.822	6.746	.1000	68.29	6.760	.8361	1.092	23.80	24.40
#1	43.23	1.342	13.05	.1155	-.0001	3.702	.0220	.1691	-.0019	.0056
#2	49.60	1.532	14.87	.1155	-.0004	4.220	.0220	.1656	-.0017	.0034
#3	45.27	1.401	13.61	.1157	-.0003	3.860	.0217	.1665	-.0026	.0049

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	2.666	.0221	1.336	.1613	-.0012	.0532	.2723
Stddev	.004	.0003	.094	.0003	.0006	.0003	.0005
%RSD	.1696	1.341	7.030	.1652	47.28	.5815	.2016
#1	2.665	.0218	1.255	.1611	-.0009	.0534	.2718
#2	2.663	.0224	1.439	.1612	-.0009	.0534	.2729
#3	2.671	.0222	1.315	.1616	-.0019	.0529	.2722

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	2622.1	8924.9	52690.	3946.9
Stddev	7.0	16.9	91.	197.6
%RSD	.26651	.18932	.17362	5.0070
#1	2626.1	8918.0	52598.	4118.9
#2	2614.1	8912.6	52691.	3731.0
#3	2626.3	8944.2	52781.	3990.7

Zoom In Zoom Out

Sample Name: MP28753-D1 Acquired: 4/3/2015 12:48:22 Type: Unk
Method: 60102007_041712(v214) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)
Avg	-.0005	98.57	.0440	.5581	.0034	41.93	.0012	.0050
Stddev	.0002	.22	.0002	.0007	.0001	.14	.0000	.0001
%RSD	44.24	.2275	.4696	.1184	3.199	.3337	2.611	1.736
#1	-.0007	98.42	.0442	.5578	.0033	41.90	.0012	.0049
#2	-.0003	98.83	.0439	.5588	.0035	42.08	.0012	.0051
#3	-.0004	98.46	.0438	.5575	.0035	41.80	.0012	.0050

Elem	Cr2677	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)
Avg	.2013	.2863	47.28	1.453	14.38	.1365	-.0002	3.977
Stddev	.0005	.0005	.05	.013	.08	.0002	.0001	.006
%RSD	.2464	.1774	.1018	.8718	.5232	.1272	73.84	.1578
#1	.2007	.2858	47.25	1.443	14.44	.1365	-.0003	3.984
#2	.2013	.2868	47.33	1.449	14.40	.1363	-.0001	3.973
#3	.2017	.2863	47.25	1.468	14.29	.1366	-.0001	3.974

Elem	Ni2316	Pb2203	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)
Avg	.0246	.1643	F-.0051	.0041	2.990	.0226	1.297	.1962
Stddev	.0001	.0005	.0005	.0008	.004	.0002	.002	.0001
%RSD	.3325	.3313	9.087	18.67	.1481	.8711	.1791	.0399
#1	.0247	.1637	-.0047	.0035	2.995	.0225	1.295	.1962
#2	.0245	.1648	-.0049	.0049	2.986	.0228	1.299	.1961
#3	.0246	.1644	-.0056	.0038	2.991	.0224	1.295	.1963

Elem	Tl1908	V_2924	Zn2062
IS Ref	(In2306)	(Y_3600)	(Y_2243)
Avg	-.0013	.0599	.2877
Stddev	.0004	.0001	.0001
%RSD	32.49	.1006	.0218
#1	-.0015	.0599	.2876
#2	-.0016	.0599	.2878
#3	-.0008	.0598	.2877

Zoom In Zoom Out

Sample Name: MP28753-D1 Acquired: 4/3/2015 12:48:22 Type: Unk
Method: 60102007_041712(v214) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	2623.1	8855.7	52470.	3980.6
Stddev	4.6	11.9	131.	17.9
%RSD	.17403	.13409	.25033	.44844
#1	2620.0	8846.8	52319.	3960.0
#2	2620.9	8851.1	52537.	3989.8
#3	2628.3	8869.2	52555.	3992.0

Zoom In Zoom Out

Sample Name: MP28753-SD1 Acquired: 4/3/2015 12:52:26 Type: Unk
Method: 60102007_041712(v214) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	-.0003	23.05	.0104	.1416	.0008	9.993	.0003	.0011	.0430	.0712
Stddev	.0005	.04	.0004	.0004	.0001	.016	.0000	.0000	.0005	.0004
%RSD	161.0	.1522	3.819	.2746	7.327	.1580	8.898	4.181	1.062	.5105
#1	.0000	23.07	.0106	.1420	.0008	9.999	.0002	.0011	.0425	.0713
#2	-.0009	23.07	.0107	.1416	.0009	10.00	.0003	.0012	.0432	.0708
#3	.0000	23.01	.0100	.1412	.0008	9.975	.0003	.0011	.0433	.0715

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	11.46	.4045	3.477	.0292	-.0015	.9998	.0054	.0321	-.0035	.0003
Stddev	.04	.0227	.021	.0001	.0000	.0060	.0001	.0002	.0008	.0010
%RSD	.3247	5.609	.6156	.3748	3.114	.6034	2.018	.5974	21.25	289.8
#1	11.46	.3853	3.502	.0291	-.0016	1.003	.0055	.0319	-.0031	-.0003
#2	11.50	.4295	3.466	.0293	-.0015	1.003	.0054	.0321	-.0031	.0015
#3	11.43	.3985	3.463	.0292	-.0015	.9928	.0053	.0323	-.0044	-.0001

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	.6764	.0053	.3315	.0391	.0001	.0132	.0707
Stddev	.0005	.0001	.0008	.0002	.0001	.0001	.0001
%RSD	.0719	2.299	.2334	.4863	79.44	.9394	.1637
#1	.6768	.0054	.3316	.0389	.0000	.0133	.0708
#2	.6766	.0054	.3321	.0392	.0002	.0131	.0705
#3	.6759	.0052	.3306	.0392	.0002	.0132	.0707

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	2832.4	7686.2	45103.	3339.3
Stddev	9.3	12.7	110.	16.5
%RSD	.32728	.16549	.24325	.49334
#1	2821.7	7675.8	45083.	3357.6
#2	2837.9	7700.4	45005.	3334.8
#3	2837.6	7682.6	45221.	3325.6

Zoom In Zoom Out

Sample Name: MP28753-PS1 Acquired: 4/3/2015 12:56:34 Type: Unk
Method: 60102007_041712(v214) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	.0387	93.01	.1258	.7766	.0477	42.80	.0437	.0471	.2121	.3683
Stddev	.0003	.10	.0004	.0007	.0001	.05	.0001	.0001	.0007	.0014
%RSD	.8119	.1078	.3519	.0895	.1928	.1277	.1246	.1101	.3440	.3722
#1	.0384	92.92	.1256	.7759	.0478	42.79	.0437	.0471	.2127	.3682
#2	.0389	92.99	.1263	.7773	.0476	42.76	.0437	.0471	.2123	.3697
#3	.0389	93.11	.1255	.7766	.0478	42.86	.0436	.0472	.2113	.3669

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	47.40	10.10	17.39	.1558	.0831	13.18	.1062	.2162	.0812	.0840
Stddev	.05	.06	.04	.0005	.0001	.02	.0002	.0008	.0011	.0005
%RSD	.0966	.6032	.2425	.3529	.1497	.1585	.1447	.3896	1.383	.6276
#1	47.38	10.04	17.36	.1559	.0830	13.15	.1062	.2170	.0821	.0834
#2	47.37	10.16	17.44	.1563	.0831	13.19	.1061	.2162	.0816	.0842
#3	47.45	10.11	17.37	.1552	.0833	13.19	.1064	.2153	.0799	.0843

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	2.625	.0625	1.351	.2421	.1043	.0939	.4763
Stddev	.002	.0003	.001	.0008	.0009	.0004	.0005
%RSD	.0703	.4840	.0958	.3389	.8893	.4473	.1133
#1	2.627	.0628	1.352	.2426	.1039	.0936	.4760
#2	2.623	.0624	1.352	.2426	.1036	.0937	.4761
#3	2.625	.0622	1.350	.2412	.1053	.0944	.4770

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	2582.5	8899.9	52082.	3912.7
Stddev	7.5	9.2	110.	13.5
%RSD	.29182	.10352	.21165	.34489
#1	2578.2	8904.1	51988.	3921.7
#2	2591.2	8906.3	52054.	3919.3
#3	2578.0	8889.3	52203.	3897.2

Zoom In Zoom Out

Sample Name: MP28753-S1 Acquired: 4/3/2015 13:00:36 Type: Unk
Method: 60102007_041712(v214) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	.0418	132.2	1.708	2.330	.0494	58.12	.0434	.4358	.3741	.4627
Stddev	.0002	.1	.003	.008	.0002	.02	.0000	.0007	.0013	.0011
%RSD	.4705	.0880	.1751	.3489	.4080	.0421	.0959	.1585	.3584	.2462
#1	.0419	132.3	1.709	2.339	.0496	58.10	.0433	.4352	.3742	.4633
#2	.0419	132.1	1.705	2.323	.0493	58.15	.0434	.4357	.3728	.4614
#3	.0416	132.1	1.710	2.327	.0493	58.12	.0434	.4366	.3754	.4635

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	72.38	24.49	35.53	.5578	.3952	27.10	.4517	.6654	.1903	1.660
Stddev	.08	.01	.19	.0014	.0006	.03	.0008	.0015	.0023	.002
%RSD	.1125	.0478	.5249	.2432	.1592	.1281	.1769	.2236	1.223	.0999
#1	72.47	24.49	35.31	.5588	.3945	27.14	.4509	.6638	.1885	1.658
#2	72.31	24.51	35.63	.5562	.3952	27.07	.4517	.6657	.1895	1.661
#3	72.35	24.48	35.64	.5582	.3958	27.10	.4525	.6667	.1930	1.661

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	3.275	.4326	1.692	.4362	2.071	.4808	.6662
Stddev	.004	.0009	.006	.0006	.002	.0001	.0015
%RSD	.1144	.2080	.3437	.1462	.1136	.0218	.2299
#1	3.272	.4316	1.698	.4367	2.068	.4808	.6646
#2	3.275	.4328	1.689	.4355	2.072	.4807	.6664
#3	3.279	.4334	1.687	.4363	2.072	.4809	.6676

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	2481.8	8606.2	49798.	3804.2
Stddev	1.9	12.2	100.	34.2
%RSD	.07733	.14191	.20110	.89858
#1	2483.6	8618.8	49750.	3843.1
#2	2479.8	8605.4	49913.	3778.8
#3	2482.0	8594.5	49731.	3790.9

Zoom In Zoom Out

Sample Name: MP28753-S2 Acquired: 4/3/2015 13:04:35 Type: Unk
Method: 60102007_041712(v214) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	.0411	135.2	1.664	2.342	.0503	60.63	.0422	.4267	.3672	.4499
Stddev	.0004	5.2	.002	.091	.0018	2.38	.0003	.0004	.0003	.0005
%RSD	.8929	3.862	.1094	3.890	3.645	3.932	.7731	.1048	.0837	.1014
#1	.0409	131.8	1.666	2.283	.0491	59.04	.0424	.4264	.3675	.4500
#2	.0409	141.2	1.664	2.447	.0524	63.37	.0418	.4264	.3670	.4503
#3	.0416	132.6	1.663	2.295	.0493	59.47	.0423	.4272	.3669	.4494

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	84.57	24.57	35.89	.5580	.3848	27.41	.4439	.6564	.1815	1.613
Stddev	3.38	.95	1.40	.0017	.0004	1.04	.0003	.0031	.0009	.001
%RSD	3.995	3.866	3.890	.3045	.0962	3.793	.0676	.4694	.4803	.0533
#1	82.30	23.94	34.97	.5597	.3844	26.76	.4438	.6571	.1811	1.614
#2	88.46	25.67	37.50	.5580	.3849	28.61	.4442	.6530	.1808	1.614
#3	82.97	24.11	35.21	.5563	.3851	26.85	.4437	.6591	.1824	1.612

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	3.141	.4186	1.719	.4282	2.044	.4995	.6453
Stddev	.002	.0003	.066	.0009	.005	.0008	.0007
%RSD	.0490	.0784	3.840	.2176	.2279	.1630	.1041
#1	3.141	.4183	1.678	.4289	2.043	.4988	.6448
#2	3.143	.4187	1.796	.4286	2.040	.4992	.6451
#3	3.140	.4189	1.684	.4272	2.049	.5004	.6461

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	2485.4	8724.7	50222.	3716.6
Stddev	1.8	5.8	94.	122.2
%RSD	.07368	.06674	.18689	3.2887
#1	2485.0	8721.9	50194.	3814.6
#2	2487.4	8720.8	50145.	3579.7
#3	2483.8	8731.4	50327.	3755.5

Zoom In Zoom Out

Sample Name: FA23243-2 Acquired: 4/3/2015 13:08:34 Type: Unk
Method: 60102007_041712(v214) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	.0000	65.51	.0291	.4428	.0034	78.83	.0016	.0070	.1342	.2035
Stddev	.000	.09	.0002	.0008	.0001	.07	.0000	.0000	.0003	.0006
%RSD	1138.	.1331	.8195	.1706	1.593	.0898	1.798	.5720	.2503	.2954
#1	-.0004	65.42	.0294	.4434	.0033	78.77	.0016	.0070	.1340	.2040
#2	.0002	65.59	.0290	.4431	.0034	78.91	.0015	.0070	.1346	.2037
#3	.0001	65.52	.0290	.4420	.0034	78.81	.0016	.0069	.1341	.2028

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	44.00	1.495	8.722	.2388	.0001	.5307	.0213	.2996	-.0040	.0024
Stddev	.08	.022	.027	.0008	.0001	.0059	.0001	.0001	.0012	.0007
%RSD	.1729	1.498	.3101	.3462	63.41	1.113	.3398	.0223	28.51	28.84
#1	43.93	1.492	8.706	.2381	.0002	.5264	.0214	.2995	-.0034	.0017
#2	44.08	1.518	8.753	.2397	.0000	.5281	.0213	.2996	-.0034	.0026
#3	43.97	1.474	8.706	.2385	.0002	.5374	.0214	.2997	-.0054	.0031

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	2.395	.0241	1.593	.1198	-.0004	.0857	.3157
Stddev	.002	.0002	.001	.0004	.0010	.0002	.0001
%RSD	.0784	.8495	.0900	.3031	271.3	.1986	.0330
#1	2.393	.0240	1.592	.1196	-.0010	.0855	.3158
#2	2.395	.0243	1.594	.1202	-.0009	.0857	.3156
#3	2.397	.0239	1.594	.1195	.0008	.0859	.3158

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	2614.5	9316.7	53876.	4051.6
Stddev	9.2	22.4	269.	31.5
%RSD	.35169	.23992	.49919	.77729
#1	2603.9	9291.4	54068.	4076.2
#2	2619.3	9325.2	53569.	4016.1
#3	2620.3	9333.5	53991.	4062.4

Zoom In Zoom Out

Sample Name: CCV Acquired: 4/3/2015 13:12:38 Type: QC
Method: 60102007_041712(v214) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2572	F44.21	2.040	2.111	2.152	43.74	2.126	2.123	2.179
Stddev	.0010	.05	.002	.003	.004	.06	.004	.003	.005
%RSD	.3937	.1113	.1137	.1435	.1782	.1462	.1949	.1178	.2270
#1	.2572	44.17	2.043	2.111	2.149	43.67	2.131	2.126	2.176
#2	.2582	44.27	2.039	2.115	2.157	43.76	2.125	2.123	2.185
#3	.2562	44.20	2.039	2.109	2.150	43.79	2.123	2.121	2.176
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value		40.00							
Range		10.00%							

Elem	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.144	42.91	F44.62	41.66	2.120	2.079	F45.39	2.067	2.067
Stddev	.002	.12	.03	.14	.006	.006	.06	.002	.003
%RSD	.1139	.2756	.0687	.3469	.2883	.3138	.1269	.1101	.1651
#1	2.145	42.77	44.59	41.51	2.118	2.072	45.34	2.069	2.069
#2	2.146	42.98	44.63	41.80	2.127	2.081	45.45	2.067	2.067
#3	2.141	42.98	44.65	41.67	2.115	2.085	45.39	2.065	2.063
Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass
Value			40.00				40.00		
Range			10.00%				10.00%		

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.070	2.053	2.127	2.028	2.200	2.144	2.112	2.083	2.097
Stddev	.005	.005	.002	.004	.005	.004	.005	.004	.006
%RSD	.2278	.2318	.1133	.1904	.2322	.1827	.2572	.1893	.2893
#1	2.065	2.048	2.129	2.033	2.196	2.141	2.116	2.082	2.104
#2	2.074	2.057	2.129	2.027	2.206	2.148	2.114	2.088	2.094
#3	2.069	2.054	2.125	2.025	2.198	2.142	2.106	2.080	2.094
Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value									
Range									

Zoom In Zoom Out

Sample Name: CCV Acquired: 4/3/2015 13:12:38 Type: QC
Method: 60102007_041712(v214) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2472.9	6910.0	40257.	3051.2
Stddev	8.5	19.8	112.	30.9
%RSD	.34519	.28598	.27862	1.0135
#1	2463.3	6887.2	40322.	3054.2
#2	2475.5	6921.3	40128.	3080.4
#3	2479.8	6921.6	40321.	3018.8

Zoom In Zoom Out

Sample Name: CCB Acquired: 4/3/2015 13:16:35 Type: QC
Method: 60102007_041712(v214) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0003	-.0135	.0000	.0005	.0001	.0056	.0004	.0004	.0002
Stddev	.0004	.0143	.0003	.0005	.0001	.0033	.0002	.0001	.0001
%RSD	117.1	106.2	726.4	95.97	73.72	58.56	56.04	33.69	46.47
#1	-.0005	-.0136	.0004	.0007	.0000	.0043	.0002	.0002	.0003
#2	-.0006	.0009	-.0001	.0000	.0001	.0093	.0006	.0005	.0002
#3	.0001	-.0277	-.0002	.0008	.0001	.0031	.0003	.0005	.0001
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0003	.0231	.0704	-.0110	.0001	F.0030	-.0326	.0001	.0001
Stddev	.0003	.0040	.0137	.0087	.0000	.0011	.0079	.0002	.0002
%RSD	94.94	17.17	19.46	79.44	25.33	37.19	24.23	240.8	206.6
#1	.0005	.0275	.0553	-.0073	.0001	.0042	-.0413	.0000	.0003
#2	.0004	.0199	.0739	-.0210	.0001	.0028	-.0259	.0003	-.0001
#3	.0000	.0218	.0820	-.0048	.0001	.0020	-.0306	-.0001	.0001
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit						.0010			
Low Limit						-.0010			

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0017	.0008	.0051	.0003	.0002	.0004	.0001	.0000	.0004
Stddev	.0009	.0011	.0003	.0001	.0000	.0001	.0004	.000	.0001
%RSD	53.36	136.6	4.879	20.58	19.17	15.06	322.8	386.2	39.27
#1	-.0025	.0009	.0049	.0003	.0002	.0005	-.0004	.0001	.0003
#2	-.0018	.0019	.0054	.0002	.0002	.0004	.0005	-.0002	.0005
#3	-.0007	-.0003	.0052	.0002	.0001	.0004	.0003	.0000	.0003
Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Zoom In Zoom Out

Sample Name: CCB Acquired: 4/3/2015 13:16:35 Type: QC
Method: 60102007_041712(v214) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2932.3	7254.8	42201.	3035.0
Stddev	6.0	10.8	116.	29.1
%RSD	.20463	.14922	.27466	.95907
#1	2925.7	7242.4	42330.	3001.8
#2	2937.5	7262.4	42167.	3056.0
#3	2933.5	7259.5	42106.	3047.3

Zoom In Zoom Out

Sample Name: CCV Acquired: 4/3/2015 13:43:07 Type: QC
Method: 60102007_041712(v214) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2507	39.15	2.041	2.023	1.983	39.51	2.019	2.017	1.978	1.991
Stddev	.0008	.12	.005	.009	.006	.06	.002	.002	.003	.002
%RSD	.3114	.3068	.2650	.4459	.3062	.1425	.0784	.0735	.1521	.1140
#1	.2499	39.24	2.042	2.033	1.990	39.56	2.020	2.018	1.975	1.989
#2	.2509	39.01	2.036	2.015	1.979	39.45	2.020	2.018	1.978	1.994
#3	.2515	39.19	2.047	2.021	1.981	39.50	2.017	2.016	1.981	1.991
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value										
Range										

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	40.32	39.23	40.01	2.047	2.021	39.28	2.057	1.995	2.022	2.038
Stddev	.09	.07	.04	.005	.005	.10	.001	.004	.001	.001
%RSD	.2206	.1717	.1075	.2585	.2570	.2498	.0699	.2080	.0407	.0608
#1	40.42	39.30	40.04	2.042	2.016	39.39	2.056	1.992	2.022	2.038
#2	40.29	39.17	40.03	2.047	2.022	39.20	2.058	2.000	2.022	2.039
#3	40.25	39.22	39.96	2.053	2.026	39.25	2.056	1.994	2.023	2.037
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value										
Range										

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.085	2.058	1.966	2.027	2.015	1.992	2.023
Stddev	.001	.002	.009	.004	.004	.003	.001
%RSD	.0304	.0921	.4627	.1829	.2164	.1535	.0442
#1	2.085	2.056	1.976	2.023	2.012	1.989	2.022
#2	2.084	2.058	1.958	2.028	2.020	1.991	2.024
#3	2.085	2.060	1.963	2.031	2.013	1.995	2.023
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Zoom In Zoom Out

Sample Name: CCV Acquired: 4/3/2015 13:43:07 Type: QC
Method: 60102007_041712(v214) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2485.2	6865.0	41251.	3076.0
Stddev	5.5	4.6	29.	24.4
%RSD	.22146	.06630	.07000	.79394
#1	2491.0	6870.0	41235.	3100.8
#2	2480.0	6861.1	41234.	3051.9
#3	2484.5	6863.9	41285.	3075.2

Zoom In Zoom Out

Sample Name: CCB Acquired: 4/3/2015 13:50:05 Type: QC
Method: 60102007_041712(v214) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0001	-.0006	.0005	.0004	.0003	.0059	.0005	.0005	.0005
Stddev	.0002	.0076	.0003	.0001	.0001	.0035	.0001	.0001	.0001
%RSD	178.0	1368.	64.62	40.57	22.24	58.62	19.59	12.24	17.42
#1	.0001	.0075	.0006	.0003	.0002	.0051	.0005	.0005	.0005
#2	-.0001	-.0075	.0008	.0003	.0003	.0029	.0006	.0006	.0004
#3	-.0002	-.0016	.0001	.0005	.0003	.0097	.0004	.0005	.0005
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0003	.0190	-.0388	.0188	.0004	F.0018	.0111	.0005	.0008
Stddev	.0000	.0002	.0083	.0190	.0001	.0002	.0018	.0001	.0004
%RSD	15.06	.8149	21.30	101.0	17.42	12.64	16.03	17.44	45.46
#1	.0003	.0188	-.0337	.0053	.0003	.0019	.0093	.0004	.0004
#2	.0002	.0191	-.0483	.0406	.0004	.0019	.0111	.0005	.0012
#3	.0003	.0189	-.0343	.0107	.0004	.0015	.0129	.0005	.0008
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit						.0010			
Low Limit						-.0010			

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F.0024	.0008	-.0004	.0008	.0002	.0009	.0009	.0002	.0002
Stddev	.0003	.0003	.0005	.0003	.0001	.0001	.0006	.0002	.0001
%RSD	10.50	44.16	107.2	36.53	30.69	5.928	62.53	72.51	54.79
#1	.0021	.0011	.0001	.0011	.0002	.0009	.0013	.0001	.0002
#2	.0026	.0008	-.0008	.0008	.0001	.0010	.0003	.0004	.0003
#3	.0024	.0004	-.0005	.0005	.0002	.0010	.0011	.0003	.0001
Check ?	Chk Fail	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	.0020								
Low Limit	-.0020								

Zoom In Zoom Out

Sample Name: CCB Acquired: 4/3/2015 13:50:05 Type: QC
Method: 60102007_041712(v214) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2958.8	7183.3	44019.	3146.2
Stddev	12.3	19.1	10.	28.7
%RSD	.41531	.26636	.02377	.91350
#1	2951.6	7172.2	44030.	3123.2
#2	2951.7	7172.3	44018.	3178.5
#3	2973.0	7205.4	44010.	3137.0

Zoom In Zoom Out

Sample Name: FA23243-3 Acquired: 4/3/2015 13:54:04 Type: Unk
Method: 60102007_041712(v214) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	.0002	15.67	.0140	.1188	.0007	104.7	.0013	.0014	.0698	.2241
Stddev	.0002	.01	.0001	.0002	.0001	.2	.0000	.0001	.0003	.0002
%RSD	92.32	.0657	.5134	.1919	11.00	.1723	1.346	6.262	.3890	.1065
#1	.0000	15.66	.0140	.1191	.0007	104.9	.0013	.0013	.0701	.2238
#2	.0004	15.68	.0140	.1186	.0007	104.6	.0013	.0015	.0696	.2243
#3	.0001	15.67	.0141	.1187	.0008	104.8	.0013	.0015	.0696	.2242

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	6.063	.8916	22.64	.2073	.0017	2.066	.0115	.1081	.0006	.0019
Stddev	.025	.0229	.06	.0003	.0002	.004	.0001	.0006	.0003	.0016
%RSD	.4118	2.572	.2560	.1448	14.45	.2044	1.271	.5540	52.77	82.26
#1	6.066	.9173	22.64	.2076	.0020	2.061	.0114	.1078	.0008	.0010
#2	6.036	.8838	22.59	.2070	.0015	2.069	.0117	.1078	.0007	.0011
#3	6.086	.8735	22.70	.2074	.0015	2.067	.0115	.1088	.0002	.0038

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	2.109	.0245	.4662	.1208	.0005	.0230	.1709
Stddev	.000	.0002	.0008	.0001	.0003	.0002	.0003
%RSD	.0159	.8826	.1733	.0677	62.19	.9921	.1831
#1	2.109	.0247	.4664	.1209	.0009	.0228	.1707
#2	2.109	.0243	.4654	.1209	.0003	.0230	.1707
#3	2.109	.0246	.4670	.1207	.0003	.0232	.1712

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	2627.6	7574.6	46318.	3421.7
Stddev	6.6	5.3	195.	14.1
%RSD	.25063	.06999	.42183	.41184
#1	2624.1	7574.1	46237.	3405.5
#2	2635.2	7580.1	46541.	3428.5
#3	2623.5	7569.6	46176.	3431.1

Zoom In Zoom Out

Sample Name: FA23243-4 Acquired: 4/3/2015 13:58:08 Type: Unk
Method: 60102007_041712(v214) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)
Avg	.0001	34.95	.0494	.3359	.0020	F655.2	.0009	.0051	.1347
Stddev	.0005	.06	.0006	.0008	.0001	8.0	.0000	.0001	.0004
%RSD	400.4	.1662	1.253	.2272	5.502	1.215	3.394	2.270	.2702
#1	-.0003	34.89	.0490	.3351	.0020	659.1	.0010	.0051	.1351
#2	-.0001	34.95	.0491	.3366	.0019	646.1	.0009	.0053	.1348
#3	.0007	35.01	.0501	.3360	.0021	660.5	.0009	.0051	.1344

Elem	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
IS Ref	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)
Avg	.0742	16.41	1.243	10.68	.2227	.0077	6.921	.0192	.1105
Stddev	.0002	.05	.006	.06	.0008	.0001	.011	.0002	.0013
%RSD	.2635	.3138	.4764	.5532	.3688	1.732	.1519	.8957	1.154
#1	.0744	16.36	1.247	10.61	.2230	.0078	6.909	.0191	.1119
#2	.0742	16.39	1.236	10.71	.2217	.0076	6.929	.0194	.1093
#3	.0740	16.46	1.247	10.71	.2233	.0076	6.925	.0190	.1105

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	.0019	.0025	2.328	.0259	F5.571	.1356	-.0012	.0628	.1333
Stddev	.0007	.0010	.003	.0002	.093	.0004	.0008	.0002	.0001
%RSD	38.73	37.87	.1418	.7041	1.671	.3000	65.39	.3337	.1025
#1	.0023	.0036	2.331	.0261	5.484	.1358	-.0021	.0626	.1332
#2	.0010	.0022	2.327	.0258	5.560	.1351	-.0004	.0630	.1334
#3	.0022	.0018	2.324	.0257	5.669	.1358	-.0012	.0629	.1334

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	2284.4	7664.8	46431.	3639.5
Stddev	2.9	4.5	205.	15.0
%RSD	.12633	.05846	.44063	.41289
#1	2283.6	7661.3	46250.	3655.2
#2	2282.0	7663.3	46653.	3637.9
#3	2287.6	7669.9	46392.	3625.3

Zoom In Zoom Out

Sample Name: FA23243-5 Acquired: 4/3/2015 14:02:29 Type: Unk
Method: 60102007_041712(v214) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	.0002	17.41	.0165	.2437	.0009	64.13	.0039	.0024	.0991	.4332
Stddev	.0003	.09	.0006	.0005	.0000	.21	.0000	.0000	.0005	.0012
%RSD	142.9	.5072	3.373	.2134	3.303	.3254	1.014	1.529	.5161	.2713
#1	.0002	17.38	.0162	.2437	.0009	64.16	.0039	.0024	.0994	.4319
#2	.0004	17.51	.0171	.2442	.0009	64.32	.0039	.0024	.0995	.4342
#3	-.0001	17.34	.0161	.2431	.0008	63.91	.0039	.0024	.0985	.4335

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	11.20	1.202	4.647	.3586	.0008	.5829	.0114	.4076	.0012	.0026
Stddev	.04	.001	.049	.0012	.0001	.0040	.0001	.0005	.0006	.0019
%RSD	.3558	.1136	1.062	.3459	10.47	.6807	.7392	.1215	50.59	71.43
#1	11.20	1.201	4.679	.3574	.0008	.5810	.0114	.4080	.0006	.0047
#2	11.24	1.202	4.672	.3599	.0009	.5874	.0115	.4071	.0011	.0022
#3	11.16	1.204	4.590	.3587	.0007	.5802	.0115	.4078	.0018	.0010

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	2.392	.0333	.5734	.1029	.0003	.0267	.4229
Stddev	.004	.0002	.0013	.0007	.0007	.0001	.0002
%RSD	.1449	.7021	.2348	.6351	213.6	.4695	.0565
#1	2.396	.0331	.5736	.1021	.0001	.0267	.4230
#2	2.392	.0334	.5747	.1033	.0010	.0266	.4227
#3	2.389	.0335	.5720	.1032	-.0002	.0268	.4231

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	2718.6	7580.9	46782.	3409.6
Stddev	2.2	4.2	76.	5.1
%RSD	.08066	.05485	.16257	.15013
#1	2716.1	7580.0	46810.	3409.1
#2	2719.1	7585.5	46696.	3404.7
#3	2720.4	7577.3	46840.	3414.9

Zoom In Zoom Out

Sample Name: FA23243-6 Acquired: 4/3/2015 14:06:34 Type: Unk
Method: 60102007_041712(v214) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	.0005	13.82	.0169	.1083	.0008	15.05	.0007	.0020	.0499	.1382
Stddev	.0002	.00	.0001	.0002	.0001	.02	.0000	.0000	.0005	.0004
%RSD	34.73	.0224	.5272	.1620	13.25	.1068	5.123	.6690	.9263	.2990
#1	.0003	13.81	.0168	.1085	.0007	15.07	.0008	.0020	.0504	.1387
#2	.0006	13.81	.0170	.1084	.0008	15.04	.0007	.0021	.0498	.1378
#3	.0005	13.82	.0170	.1081	.0009	15.06	.0007	.0020	.0495	.1382

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	19.01	.4891	2.607	.0975	.0006	.4802	.0109	.1192	.0010	.0028
Stddev	.01	.0069	.023	.0002	.0000	.0002	.0000	.0002	.0001	.0009
%RSD	.0689	1.403	.8864	.2533	2.611	.0459	.1756	.1316	8.304	33.32
#1	19.02	.4815	2.609	.0977	.0006	.4800	.0108	.1193	.0010	.0037
#2	18.99	.4911	2.629	.0974	.0006	.4804	.0109	.1192	.0011	.0018
#3	19.01	.4948	2.583	.0973	.0006	.4804	.0109	.1190	.0010	.0029

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	2.734	.0251	.3022	.0725	.0000	.0240	.0641
Stddev	.003	.0002	.0002	.0001	.0004	.0002	.0002
%RSD	.1152	.5970	.0801	.1153	1699.	.9584	.2383
#1	2.736	.0250	.3021	.0726	-.0001	.0239	.0641
#2	2.730	.0252	.3025	.0724	-.0003	.0243	.0640
#3	2.734	.0253	.3022	.0724	.0005	.0238	.0643

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	2835.8	7595.0	47129.	3405.4
Stddev	4.1	11.0	126.	22.1
%RSD	.14594	.14470	.26629	.64786
#1	2831.4	7588.9	46988.	3385.5
#2	2836.4	7607.7	47172.	3401.5
#3	2839.6	7588.5	47228.	3429.1

Zoom In Zoom Out

Sample Name: FA23243-7 Acquired: 4/3/2015 14:10:39 Type: Unk
Method: 60102007_041712(v214) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	.0000	9.794	.0033	.0605	.0005	3.428	.0002	.0006	.0169	.0597
Stddev	.0003	.033	.0003	.0002	.0001	.011	.0000	.0001	.0001	.0002
%RSD	660.8	.3377	10.55	.3590	12.11	.3218	8.104	17.59	.5929	.3042
#1	.0004	9.779	.0029	.0603	.0005	3.423	.0002	.0006	.0168	.0598
#2	-.0001	9.771	.0033	.0605	.0004	3.421	.0002	.0006	.0170	.0598
#3	-.0001	9.832	.0036	.0607	.0005	3.441	.0003	.0005	.0169	.0595

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	3.033	.3106	1.061	.0089	.0000	.4781	.0055	.0162	.0008	.0013
Stddev	.024	.0246	.009	.0000	.0001	.0104	.0000	.0006	.0002	.0003
%RSD	.7810	7.929	.8431	.3616	230.4	2.171	.8699	3.824	19.23	22.71
#1	3.021	.2836	1.062	.0089	.0000	.4843	.0055	.0163	.0008	.0014
#2	3.018	.3319	1.052	.0089	-.0001	.4839	.0054	.0168	.0007	.0016
#3	3.060	.3164	1.070	.0089	.0002	.4661	.0055	.0156	.0010	.0010

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	1.846	.0220	.1122	.0531	-.0005	.0063	.0392
Stddev	.004	.0003	.0002	.0003	.0006	.0002	.0000
%RSD	.2107	1.381	.1800	.5742	131.2	3.532	.0745
#1	1.842	.0220	.1120	.0531	.0002	.0065	.0392
#2	1.847	.0217	.1121	.0535	-.0008	.0064	.0392
#3	1.850	.0223	.1124	.0529	-.0008	.0060	.0393

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	2896.5	7407.4	46023.	3331.8
Stddev	6.6	9.2	160.	16.4
%RSD	.22781	.12485	.34666	.49121
#1	2894.1	7400.6	46145.	3330.1
#2	2904.0	7418.0	45842.	3349.0
#3	2891.4	7403.7	46081.	3316.4

Zoom In
Zoom Out

Sample Name: FA23243-8 Acquired: 4/3/2015 14:14:45 Type: Unk
Method: 60102007_041712(v214) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	.0003	16.64	.0129	.1034	.0008	35.02	.0006	.0018	.0284	.0658
Stddev	.0001	.03	.0005	.0004	.0000	.04	.0000	.0000	.0001	.0002
%RSD	32.48	.1641	3.648	.3638	1.948	.1178	4.142	1.141	.3692	.2792
#1	.0002	16.66	.0128	.1038	.0008	35.05	.0006	.0018	.0283	.0661
#2	.0004	16.65	.0124	.1031	.0008	35.05	.0006	.0018	.0283	.0657
#3	.0004	16.61	.0134	.1034	.0009	34.98	.0006	.0017	.0285	.0657

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	10.58	.3836	2.045	.0491	.0005	.2697	.0114	.1071	.0011	.0043
Stddev	.04	.0317	.018	.0002	.0000	.0078	.0001	.0004	.0001	.0007
%RSD	.3915	8.264	.8906	.4625	10.17	2.900	1.280	.3640	9.171	17.45
#1	10.63	.3935	2.027	.0490	.0005	.2771	.0114	.1069	.0010	.0043
#2	10.55	.4091	2.063	.0489	.0004	.2705	.0116	.1069	.0010	.0049
#3	10.56	.3481	2.045	.0493	.0005	.2615	.0113	.1075	.0012	.0035

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	2.520	.0238	.3335	.1114	.0005	.0252	.1274
Stddev	.004	.0001	.0006	.0002	.0005	.0001	.0001
%RSD	.1512	.2459	.1675	.1661	99.17	.2658	.0621
#1	2.515	.0238	.3340	.1112	.0005	.0252	.1275
#2	2.523	.0239	.3336	.1115	.0000	.0253	.1274
#3	2.520	.0238	.3328	.1115	.0009	.0252	.1275

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	2791.9	7500.7	47015.	3405.3
Stddev	5.7	13.2	197.	5.6
%RSD	.20370	.17649	.41901	.16468
#1	2787.3	7485.7	47018.	3402.9
#2	2798.3	7510.7	47211.	3411.7
#3	2790.3	7505.7	46817.	3401.3

Zoom In
Zoom Out

Sample Name: FA23243-9 Acquired: 4/3/2015 14:18:51 Type: Unk
Method: 60102007_041712(v214) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	.0001	42.08	.0071	.1989	.0018	10.23	.0002	.0023	.0649	.0031
Stddev	.0004	.11	.0005	.0005	.0001	.02	.0000	.0001	.0004	.0003
%RSD	754.9	.2647	7.070	.2651	2.807	.2379	16.66	2.697	.5416	10.67
#1	-.0004	42.06	.0074	.1983	.0018	10.23	.0002	.0023	.0652	.0030
#2	.0004	41.98	.0065	.1991	.0018	10.21	.0001	.0024	.0645	.0028
#3	.0001	42.20	.0073	.1992	.0019	10.26	.0002	.0024	.0650	.0035

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	15.52	.2837	3.863	.0212	-.0001	.2270	.0122	.0286	-.0007	.0036
Stddev	.05	.0230	.023	.0001	.0001	.0052	.0002	.0002	.0007	.0004
%RSD	.3339	8.117	.5862	.2477	116.7	2.291	1.286	.8228	103.5	11.11
#1	15.50	.2807	3.837	.0211	.0000	.2282	.0121	.0287	-.0007	.0032
#2	15.48	.2623	3.879	.0212	.0000	.2213	.0124	.0288	.0000	.0036
#3	15.57	.3081	3.873	.0212	-.0002	.2316	.0122	.0284	-.0015	.0040

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	2.898	.0210	.4572	.1019	-.0005	.0314	.0192
Stddev	.002	.0001	.0010	.0002	.0006	.0003	.0000
%RSD	.0536	.6999	.2135	.2207	122.8	.8470	.0774
#1	2.897	.0210	.4573	.1020	-.0011	.0316	.0192
#2	2.896	.0209	.4561	.1021	.0001	.0314	.0192
#3	2.899	.0212	.4581	.1016	-.0005	.0311	.0192

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	2787.3	8343.1	51955.	3812.1
Stddev	2.8	5.2	336.	16.1
%RSD	.09980	.06195	.64610	.42227
#1	2788.5	8347.8	51742.	3821.2
#2	2789.3	8343.9	51782.	3821.6
#3	2784.1	8337.6	52342.	3793.5

Zoom In
Zoom Out

Sample Name: FA23243-10 Acquired: 4/3/2015 14:22:55 Type: Unk
Method: 60102007_041712(v214) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	-.0007	68.86	.0206	.5709	.0036	86.82	.0010	.0056	.1311	.0271
Stddev	.0001	.18	.0003	.0013	.0001	.27	.0000	.0001	.0004	.0001
%RSD	17.93	.2685	1.299	.2347	1.867	.3152	4.967	1.485	.2990	.3539
#1	-.0008	68.74	.0206	.5694	.0037	86.65	.0009	.0056	.1306	.0270
#2	-.0006	68.77	.0203	.5717	.0036	86.67	.0010	.0056	.1314	.0271
#3	-.0008	69.07	.0208	.5717	.0035	87.14	.0009	.0055	.1312	.0272

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	29.32	.8805	7.702	.1091	.0017	.9709	.0282	.1253	-.0012	.0046
Stddev	.08	.0112	.047	.0002	.0001	.0038	.0000	.0002	.0003	.0008
%RSD	.2833	1.278	.6057	.2203	6.121	.3962	.0725	.1290	25.88	17.72
#1	29.26	.8900	7.662	.1091	.0018	.9737	.0282	.1254	-.0009	.0049
#2	29.27	.8834	7.692	.1093	.0016	.9665	.0282	.1255	-.0015	.0053
#3	29.41	.8681	7.753	.1088	.0018	.9726	.0282	.1252	-.0012	.0037

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	2.136	.0123	1.778	.1875	-.0039	.0809	.0567
Stddev	.005	.0001	.002	.0004	.0007	.0001	.0001
%RSD	.2243	.9606	.1288	.2238	18.06	.1700	.1757
#1	2.137	.0123	1.776	.1870	-.0046	.0808	.0568
#2	2.140	.0124	1.777	.1877	-.0038	.0810	.0568
#3	2.131	.0122	1.780	.1878	-.0032	.0808	.0566

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	2515.9	14331.	88826.	6733.2
Stddev	9.1	32.	459.	62.6
%RSD	.36257	.22110	.51669	.92905
#1	2516.3	14311.	88614.	6727.1
#2	2506.7	14315.	88510.	6798.5
#3	2524.9	14368.	89352.	6673.9

Zoom In
Zoom Out

Sample Name: FA23243-11 Acquired: 4/3/2015 14:26:58 Type: Unk
Method: 60102007_041712(v214) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)
Avg	-.0007	102.9	.0320	.9634	.0052	100.7	.0010	.0095
Stddev	.0001	.2	.0003	.0007	.0001	.2	.0000	.0000
%RSD	12.82	.2033	.9585	.0680	1.125	.2071	3.673	.1920
#1	-.0006	102.7	.0322	.9632	.0051	100.5	.0010	.0095
#2	-.0007	103.0	.0321	.9628	.0051	100.8	.0010	.0095
#3	-.0006	103.0	.0316	.9641	.0052	100.9	.0009	.0095

Elem	Cr2677	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)
Avg	.1920	.0022	48.39	.7975	9.669	.0682	.0034	1.296
Stddev	.0001	.0001	.13	.0072	.050	.0002	.0001	.002
%RSD	.0661	4.896	.2733	.9078	.5124	.2703	2.063	.1871
#1	.1919	.0022	48.24	.8059	9.621	.0682	.0034	1.296
#2	.1919	.0023	48.46	.7930	9.720	.0680	.0033	1.293
#3	.1921	.0021	48.47	.7937	9.667	.0683	.0035	1.298

Elem	Ni2316	Pb2203	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)
Avg	.0398	.2098	-.0013	.0052	1.573	.0098	2.956	.2202
Stddev	.0002	.0009	.0005	.0009	.001	.0003	.034	.0004
%RSD	.3910	.4247	36.81	16.99	.0918	2.688	1.149	.1633
#1	.0397	.2105	-.0008	.0061	1.572	.0096	2.923	.2199
#2	.0398	.2101	-.0018	.0052	1.572	.0101	2.991	.2203
#3	.0400	.2088	-.0013	.0043	1.575	.0098	2.953	.2206

Elem	Tl1908	V_2924	Zn2062
IS Ref	(In2306)	(Y_3600)	(Y_2243)
Avg	F-.0139	.1564	.0308
Stddev	.0006	.0001	.0000
%RSD	4.384	.0702	.0224
#1	-.0146	.1563	.0308
#2	-.0135	.1564	.0308
#3	-.0135	.1565	.0308

Zoom In
Zoom Out

Sample Name: FA23243-11 Acquired: 4/3/2015 14:26:58 Type: Unk
Method: 60102007_041712(v214) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	2416.1	19238.	117000.	9060.7
Stddev	6.9	38.	222.	76.2
%RSD	.28470	.19686	.18946	.84138
#1	2409.0	19195.	117170.	9147.2
#2	2416.7	19249.	117090.	9031.3
#3	2422.7	19268.	116750.	9003.5

Zoom In
Zoom Out

Sample Name: FA23243-12 Acquired: 4/3/2015 14:31:07 Type: Unk
Method: 60102007_041712(v214) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)
Avg	-.0014	14.71	.0506	.4915	.0015	F2845.	-.0005	.0035
Stddev	.0002	.07	.0010	.0003	.0000	27.	.0000	.0001
%RSD	16.62	.4760	1.921	.0666	1.606	.9516	9.199	3.299
#1	-.0014	14.79	.0517	.4911	.0015	2865.	-.0005	.0035
#2	-.0012	14.68	.0499	.4918	.0015	2814.	-.0005	.0034
#3	-.0017	14.66	.0503	.4917	.0015	2855.	-.0005	.0037

Elem	Cr2677	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)
Avg	.0546	.0674	17.98	1.316	46.11	.3770	.0323	37.92
Stddev	.0004	.0005	.10	.009	.37	.0007	.0002	.20
%RSD	.6961	.8107	.5445	.6850	.8083	.1883	.5571	.5338
#1	.0549	.0679	18.08	1.321	46.54	.3771	.0322	38.15
#2	.0542	.0675	17.88	1.305	45.89	.3777	.0322	37.79
#3	.0546	.0668	17.98	1.321	45.90	.3763	.0325	37.82

Elem	Ni2316	Pb2203	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)
Avg	.0166	.0216	.0065	-.0027	2.210	.0162	F20.74	.0741
Stddev	.0002	.0012	.0015	.0011	.002	.0003	.23	.0003
%RSD	1.339	5.534	22.95	40.65	.0978	1.690	1.115	.4034
#1	.0166	.0230	.0083	-.0020	2.208	.0159	20.96	.0743
#2	.0168	.0210	.0056	-.0040	2.210	.0164	20.50	.0738
#3	.0164	.0208	.0058	-.0022	2.212	.0163	20.78	.0742

Elem	Tl1908	V_2924	Zn2062
IS Ref	(In2306)	(Y_3600)	(Y_2243)
Avg	F-.0113	.0702	.0624
Stddev	.0013	.0005	.0003
%RSD	11.77	.6692	.4269
#1	-.0120	.0697	.0621
#2	-.0098	.0703	.0625
#3	-.0122	.0706	.0626

Zoom In
Zoom Out

Sample Name: FA23243-12 Acquired: 4/3/2015 14:31:07 Type: Unk
Method: 60102007_041712(v214) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	1805.5	6394.4	39644.	3386.9
Stddev	3.7	9.1	108.	34.0
%RSD	.20452	.14286	.27319	1.0043
#1	1807.4	6404.8	39583.	3348.4
#2	1807.9	6387.5	39580.	3412.9
#3	1801.2	6390.9	39769.	3399.5

Zoom In
Zoom Out

Sample Name: CCV Acquired: 4/3/2015 14:35:25 Type: QC
Method: 60102007_041712(v214) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2505	37.33	2.093	2.040	1.894	37.70	2.020	2.019	1.901	1.952
Stddev	.0005	.22	.004	.009	.010	.17	.002	.001	.003	.004
%RSD	.1975	.5983	.2131	.4205	.5163	.4435	.1116	.0667	.1295	.1874
#1	.2502	37.09	2.089	2.035	1.885	37.54	2.018	2.018	1.899	1.951
#2	.2511	37.54	2.092	2.050	1.904	37.87	2.019	2.019	1.904	1.950
#3	.2502	37.35	2.098	2.035	1.894	37.70	2.022	2.020	1.902	1.957
Check ?	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass
Value										
Range										

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	38.94	38.58	39.09	2.038	2.037	37.55	2.104	1.989	2.057	2.089
Stddev	.12	.18	.17	.003	.008	.12	.003	.004	.001	.007
%RSD	.3154	.4636	.4326	.1255	.4093	.3324	.1334	.1915	.0700	.3397
#1	38.81	38.44	38.94	2.037	2.028	37.42	2.101	1.985	2.055	2.087
#2	39.05	38.78	39.27	2.041	2.039	37.67	2.107	1.992	2.057	2.083
#3	38.94	38.52	39.05	2.036	2.044	37.55	2.104	1.990	2.058	2.097
Check ?	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass
Value										
Range										

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.127	2.134	1.902	1.994	1.997	1.994	2.038
Stddev	.001	.004	.009	.003	.002	.001	.004
%RSD	.0628	.1995	.4868	.1402	.0920	.0685	.2022
#1	2.128	2.129	1.894	1.991	1.996	1.994	2.033
#2	2.126	2.134	1.912	1.997	1.996	1.993	2.039
#3	2.128	2.138	1.901	1.994	1.999	1.996	2.041
Check ?	None	Chk	Pass	Chk	Pass	Chk	Pass
Value							
Range							

Zoom In
Zoom Out

Sample Name: CCV Acquired: 4/3/2015 14:35:25 Type: QC
Method: 60102007_041712(v214) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2506.4	6833.4	42371.	3138.3
Stddev	8.7	16.1	36.	7.1
%RSD	.34563	.23623	.08384	.22724
#1	2516.4	6852.0	42376.	3146.1
#2	2501.5	6822.9	42403.	3132.2
#3	2501.4	6825.2	42333.	3136.6

Zoom In
Zoom Out

Sample Name: CCB Acquired: 4/3/2015 14:39:21 Type: QC
Method: 60102007_041712(v214) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0004	-.0054	-.0002	.0002	.0001	.0552	.0003	.0002	.0001
Stddev	.0003	.0053	.0004	.0001	.0001	.0063	.0000	.0000	.0002
%RSD	72.49	98.06	248.2	44.89	59.15	11.45	16.70	5.345	118.5
#1	.0007	.0007	.0003	.0003	.0001	.0624	.0002	.0002	.0003
#2	.0002	-.0077	-.0004	.0002	.0000	.0524	.0003	.0003	.0002
#3	.0002	-.0093	-.0004	.0001	.0002	.0507	.0003	.0002	.0000
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000	.0367	-.0465	.0131	.0002	F.0043	.0454	.0004	.0006
Stddev	.000	.0114	.0146	.0122	.0000	.0012	.0037	.0001	.0004
%RSD	300.4	30.91	31.34	92.83	26.09	28.79	8.201	14.05	70.72
#1	.0000	.0494	-.0505	.0004	.0002	.0056	.0489	.0003	.0003
#2	-.0002	.0332	-.0587	.0143	.0001	.0041	.0459	.0005	.0011
#3	.0000	.0275	-.0304	.0246	.0002	.0032	.0415	.0004	.0004
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit						.0010			
Low Limit						-.0010			

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0013	-.0006	.0002	.0006	.0004	.0011	.0010	.0002	.0001
Stddev	.0007	.0004	.0004	.0002	.0001	.0001	.0006	.0000	.0000
%RSD	53.48	68.27	182.0	36.46	28.64	7.664	65.23	26.85	44.29
#1	.0010	-.0009	.0006	.0007	.0004	.0012	.0005	.0002	.0000
#2	.0021	-.0007	.0003	.0007	.0002	.0011	.0017	.0002	.0001
#3	.0008	-.0001	-.0002	.0003	.0004	.0012	.0007	.0001	.0001
Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Zoom In
Zoom Out

Sample Name: CCB Acquired: 4/3/2015 14:39:21 Type: QC
Method: 60102007_041712(v214) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2973.7	7165.2	44709.	3182.8
Stddev	4.1	5.2	85.	35.2
%RSD	.13936	.07203	.19079	1.1074
#1	2969.1	7164.5	44690.	3149.2
#2	2974.9	7160.5	44802.	3179.7
#3	2977.1	7170.7	44635.	3219.5

Zoom In
Zoom Out

Sample Name: CCV Acquired: 4/3/2015 15:00:32 Type: QC
Method: 60102007_041712(v214) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2499	40.24	2.019	2.025	2.030	40.52	2.033	2.029	2.020	2.012
Stddev	.0001	.15	.002	.010	.008	.14	.002	.001	.004	.004
%RSD	.0473	.3845	.1213	.4865	.3825	.3485	.0879	.0363	.1776	.1913
#1	.2501	40.06	2.022	2.014	2.021	40.36	2.031	2.028	2.022	2.009
#2	.2499	40.33	2.019	2.033	2.035	40.64	2.034	2.029	2.021	2.011
#3	.2498	40.33	2.018	2.028	2.033	40.55	2.034	2.029	2.015	2.016
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value										
Range										

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	40.82	40.45	40.53	2.054	2.022	40.32	2.037	1.997	2.020	2.023
Stddev	.19	.18	.10	.006	.005	.15	.003	.002	.001	.003
%RSD	.4724	.4393	.2373	.3010	.2498	.3713	.1237	.0870	.0600	.1504
#1	40.60	40.25	40.43	2.060	2.017	40.14	2.034	1.995	2.018	2.021
#2	40.95	40.53	40.61	2.054	2.024	40.41	2.039	1.997	2.021	2.021
#3	40.92	40.58	40.57	2.048	2.026	40.39	2.036	1.999	2.020	2.027
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value										
Range										

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.074	2.030	2.013	2.044	2.015	2.006	2.036
Stddev	.001	.002	.008	.005	.002	.003	.003
%RSD	.0260	.0956	.3917	.2445	.0750	.1494	.1407
#1	2.073	2.028	2.004	2.049	2.013	2.009	2.032
#2	2.074	2.031	2.017	2.045	2.015	2.006	2.038
#3	2.073	2.032	2.018	2.039	2.016	2.003	2.036
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Zoom In
Zoom Out

Sample Name: CCV Acquired: 4/3/2015 15:00:32 Type: QC
Method: 60102007_041712(v214) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2498.1	6823.2	42136.	3126.2
Stddev	3.4	6.9	158.	6.5
%RSD	.13720	.10126	.37396	.20900
#1	2501.2	6830.4	41985.	3126.3
#2	2498.6	6816.6	42122.	3119.6
#3	2494.4	6822.5	42300.	3132.7

Zoom In
Zoom Out

Sample Name: CCB Acquired: 4/3/2015 15:08:35 Type: QC
Method: 60102007_041712(v214) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000	-.0002	.0007	.0002	.0002	-.0050	.0004	.0005	.0004
Stddev	.0003	.0151	.0003	.0001	.0002	.0025	.0001	.0001	.0001
%RSD	2502.	8800.	45.12	50.34	83.82	49.41	26.13	15.25	36.33
#1	-.0003	-.0161	.0004	.0002	.0000	-.0075	.0005	.0005	.0004
#2	.0001	.0016	.0007	.0003	.0003	-.0049	.0004	.0005	.0005
#3	.0003	.0140	.0011	.0001	.0003	-.0026	.0003	.0004	.0002
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0002	.0187	.0130	.0103	.0005	F.0014	.0012	.0004	.0003
Stddev	.0001	.0052	.0207	.0120	.0000	.0001	.0062	.0002	.0002
%RSD	64.26	27.78	159.9	117.4	7.355	8.675	523.1	38.16	69.42
#1	.0001	.0133	.0044	.0056	.0005	.0015	-.0051	.0004	.0006
#2	.0004	.0236	.0366	.0239	.0005	.0015	.0074	.0003	.0002
#3	.0001	.0192	-.0021	.0012	.0004	.0013	.0012	.0006	.0002
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit						.0010			
Low Limit						-.0010			

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F.0024	.0020	.0006	.0008	.0002	.0009	.0006	.0002	.0003
Stddev	.0002	.0008	.0006	.0003	.0000	.0001	.0000	.0001	.0001
%RSD	8.085	41.69	101.9	38.66	22.54	15.36	7.437	59.68	33.32
#1	.0026	.0018	.0008	.0012	.0001	.0009	.0007	.0002	.0004
#2	.0024	.0013	.0010	.0007	.0002	.0010	.0006	.0004	.0004
#3	.0022	.0029	-.0001	.0006	.0002	.0008	.0006	.0001	.0002
Check ?	Chk Fail	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	.0020								
Low Limit	-.0020								

Zoom In
Zoom Out

Sample Name: CCB Acquired: 4/3/2015 15:08:35 Type: QC
Method: 60102007_041712(v214) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2972.9	7173.9	44480.	3152.1
Stddev	4.0	6.6	116.	29.4
%RSD	.13402	.09263	.26063	.93194
#1	2968.9	7169.4	44521.	3184.0
#2	2973.2	7181.5	44569.	3126.2
#3	2976.8	7170.7	44349.	3146.3

Zoom In
Zoom Out

Sample Name: FA23243-13 Acquired: 4/3/2015 15:15:13 Type: Unk
Method: 60102007_041712(v214) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)
Avg	.0001	11.35	.0311	.1647	.0014	F521.6	.0038	.0022	.1876
Stddev	.0005	.04	.0012	.0005	.0001	2.7	.0000	.0001	.0003
%RSD	333.4	.3093	3.761	.2967	4.447	.5157	.4820	3.713	.1361
#1	-.0002	11.35	.0303	.1648	.0013	519.3	.0038	.0022	.1874
#2	.0007	11.31	.0305	.1642	.0014	524.5	.0038	.0021	.1879
#3	.0000	11.38	.0324	.1651	.0015	520.8	.0038	.0023	.1876

Elem	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
IS Ref	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)
Avg	.7380	13.00	.7605	70.50	.6314	.0219	4.504	.0139	.1138
Stddev	.0010	.02	.0356	.23	.0019	.0000	.013	.0001	.0010
%RSD	.1419	.1183	4.685	.3244	.2952	.1645	.2793	.8917	.9164
#1	.7381	13.02	.7194	70.69	.6293	.0220	4.511	.0140	.1148
#2	.7369	12.99	.7799	70.24	.6321	.0219	4.490	.0137	.1127
#3	.7390	12.99	.7823	70.57	.6328	.0219	4.512	.0139	.1139

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	.0019	.0041	1.728	.0253	2.923	.1400	-.0011	.0559	.1575
Stddev	.0003	.0012	.001	.0002	.007	.0002	.0006	.0002	.0007
%RSD	16.14	29.99	.0577	.5961	.2574	.1233	57.27	.3217	.4534
#1	.0022	.0044	1.729	.0252	2.922	.1398	-.0012	.0561	.1569
#2	.0018	.0028	1.728	.0254	2.915	.1401	-.0004	.0559	.1573
#3	.0017	.0052	1.728	.0254	2.930	.1402	-.0017	.0557	.1583

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	2334.0	7060.7	43603.	3299.2
Stddev	2.1	18.8	92.	14.8
%RSD	.08896	.26602	.21111	.44758
#1	2332.6	7048.3	43679.	3282.5
#2	2333.1	7051.5	43501.	3304.9
#3	2336.4	7082.3	43630.	3310.4

Zoom In Zoom Out

Sample Name: FA23243-14 Acquired: 4/3/2015 15:19:24 Type: Unk
Method: 60102007_041712(v214) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	.0001	38.44	.0138	.2415	.0012	13.87	.0007	.0013	.1230	.1828
Stddev	.0003	.17	.0001	.0012	.0001	.08	.0000	.0000	.0002	.0005
%RSD	241.2	.4409	.8524	.4974	8.697	.5956	5.808	3.094	.1561	.2597
#1	.0003	38.62	.0137	.2426	.0013	13.95	.0007	.0013	.1229	.1823
#2	-.0002	38.41	.0139	.2418	.0012	13.86	.0008	.0014	.1228	.1832
#3	.0003	38.29	.0138	.2402	.0011	13.79	.0007	.0013	.1232	.1830

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	9.968	1.164	1.947	.3302	.0012	.4512	.0100	.0711	.0001	.0055
Stddev	.036	.026	.031	.0004	.0001	.0091	.0000	.0005	.0009	.0003
%RSD	.3609	2.249	1.611	.1273	5.460	2.012	.3756	.7317	770.0	6.243
#1	10.00	1.170	1.983	.3307	.0012	.4576	.0100	.0707	.0012	.0051
#2	9.968	1.187	1.927	.3299	.0013	.4552	.0101	.0717	-.0005	.0058
#3	9.932	1.136	1.932	.3299	.0012	.4408	.0100	.0709	-.0003	.0055

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	2.220	.0244	.5482	.2272	-.0010	.0220	.0955
Stddev	.002	.0001	.0030	.0004	.0005	.0001	.0001
%RSD	.0847	.5598	.5563	.1566	51.69	.3211	.1243
#1	2.222	.0242	.5512	.2274	-.0014	.0220	.0954
#2	2.221	.0245	.5483	.2273	-.0012	.0220	.0956
#3	2.218	.0244	.5451	.2268	-.0004	.0219	.0955

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	2790.1	7693.0	47743.	3392.5
Stddev	3.6	4.0	178.	16.2
%RSD	.13001	.05216	.37206	.47866
#1	2785.9	7688.3	47550.	3374.1
#2	2791.7	7695.5	47781.	3404.8
#3	2792.6	7695.1	47899.	3398.5

Zoom In Zoom Out

Sample Name: FA23243-15 Acquired: 4/3/2015 15:23:29 Type: Unk
Method: 60102007_041712(v214) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	-.0002	12.77	.0067	.1054	.0002	4.649	.0011	.0006	.0465	.3214
Stddev	.0004	.04	.0005	.0007	.0000	.030	.0000	.0001	.0003	.0008
%RSD	188.1	.3300	7.253	.6802	17.81	.6517	1.078	12.91	.5729	.2641
#1	.0002	12.75	.0071	.1059	.0003	4.646	.0011	.0006	.0466	.3205
#2	-.0005	12.73	.0068	.1046	.0002	4.620	.0011	.0005	.0468	.3217
#3	-.0002	12.81	.0062	.1057	.0003	4.680	.0011	.0006	.0463	.3221

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	2.196	.6826	.6880	.0794	.0003	.2109	.0075	.0461	.0009	.0049
Stddev	.016	.0080	.0363	.0001	.0000	.0024	.0002	.0004	.0005	.0014
%RSD	.7090	1.166	5.279	.0838	10.08	1.141	2.493	.9357	51.37	27.41
#1	2.211	.6770	.7019	.0793	.0004	.2118	.0074	.0464	.0004	.0059
#2	2.180	.6917	.6468	.0793	.0003	.2082	.0077	.0456	.0010	.0055
#3	2.198	.6791	.7154	.0795	.0003	.2127	.0073	.0463	.0013	.0034

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	1.541	.0232	.1991	.1967	-.0004	.0053	.1091
Stddev	.003	.0000	.0006	.0002	.0002	.0001	.0003
%RSD	.1863	.0428	.3189	.1196	50.73	1.508	.3171
#1	1.540	.0232	.1992	.1965	-.0006	.0053	.1088
#2	1.539	.0232	.1985	.1968	-.0003	.0052	.1090
#3	1.544	.0232	.1997	.1969	-.0003	.0053	.1095

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	2887.8	7350.8	45675.	3208.1
Stddev	2.5	16.4	88.	11.0
%RSD	.08750	.22265	.19262	.34306
#1	2890.6	7366.9	45735.	3203.8
#2	2885.7	7351.4	45574.	3220.6
#3	2887.2	7334.2	45716.	3199.9

Zoom In Zoom Out

Sample Name: FA23243-16 Acquired: 4/3/2015 15:27:35 Type: Unk
Method: 60102007_041712(v214) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)
Avg	.0022	112.0	.1286	.7312	.0099	25.52	.0021	.0018
Stddev	.0005	.2	.0007	.0022	.0001	.03	.0001	.0001
%RSD	23.56	.1419	.5756	.3028	.6642	.1140	2.684	4.574
#1	.0027	112.1	.1287	.7332	.0100	25.55	.0021	.0019
#2	.0023	111.9	.1279	.7288	.0100	25.49	.0021	.0018
#3	.0017	112.1	.1294	.7316	.0098	25.52	.0022	.0017

Elem	Cr2677	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)
Avg	.1671	.1336	261.4	1.928	4.241	.9430	.0065	.3814
Stddev	.0004	.0003	.4	.008	.025	.0010	.0000	.0076
%RSD	.2114	.2536	.1677	.4295	.5940	.1011	.4306	1.999
#1	.1667	.1340	261.6	1.923	4.239	.9430	.0066	.3823
#2	.1674	.1334	261.0	1.923	4.217	.9420	.0065	.3733
#3	.1673	.1334	261.8	1.937	4.267	.9439	.0065	.3885

Elem	Ni2316	Pb2203	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)
Avg	.0228	.0752	F-.0055	.0123	2.653	.0206	2.157	.3800
Stddev	.0001	.0004	.0004	.0015	.001	.0002	.003	.0003
%RSD	.3744	.5412	6.743	11.95	.0447	1.121	.1403	.0862
#1	.0228	.0750	-.0052	.0137	2.652	.0203	2.159	.3799
#2	.0228	.0749	-.0053	.0123	2.652	.0207	2.153	.3798
#3	.0227	.0756	-.0059	.0108	2.654	.0207	2.158	.3804

Elem	Tl1908	V_2924	Zn2062
IS Ref	(In2306)	(Y_3600)	(Y_2243)
Avg	-.0026	.3058	.1242
Stddev	.0003	.0001	.0001
%RSD	10.14	.0212	.0913
#1	-.0026	.3058	.1242
#2	-.0023	.3058	.1242
#3	-.0029	.3057	.1244

Zoom In Zoom Out

Sample Name: FA23243-16 Acquired: 4/3/2015 15:27:35 Type: Unk
Method: 60102007_041712(v214) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	2657.1	8711.5	52989.	3881.1
Stddev	4.3	2.4	227.	9.5
%RSD	.16285	.02754	.42826	.24437
#1	2660.3	8709.0	52736.	3870.2
#2	2658.8	8713.7	53174.	3887.6
#3	2652.1	8711.7	53057.	3885.4

Zoom In Zoom Out

Sample Name: FA23243-17 Acquired: 4/3/2015 15:31:36 Type: Unk
Method: 60102007_041712(v214) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)
Avg	-.0015	44.29	.0713	.3543	.0024	F1887.	-.0005	.0082
Stddev	.0004	.12	.0002	.0009	.0000	26.	.0001	.0002
%RSD	28.12	.2771	.2838	.2663	.8386	1.398	13.17	2.048
#1	-.0012	44.15	.0713	.3532	.0024	1859.	-.0004	.0081
#2	-.0012	44.37	.0715	.3549	.0024	1911.	-.0005	.0080
#3	-.0019	44.35	.0711	.3548	.0024	1890.	-.0005	.0083

Elem	Cr2677	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)
Avg	.1053	.0314	25.02	2.600	136.5	.7975	.0128	18.61
Stddev	.0007	.0001	.08	.014	.4	.0035	.0001	.05
%RSD	.6813	.4290	.3138	.5305	.3105	.4370	.9699	.2704
#1	.1061	.0313	24.95	2.584	136.1	.8014	.0127	18.55
#2	.1047	.0312	25.10	2.608	136.9	.7946	.0129	18.62
#3	.1052	.0315	25.01	2.609	136.4	.7967	.0127	18.65

Elem	Ni2316	Pb2203	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)
Avg	.0284	.0374	.0021	.0008	3.053	.0129	F8.105	.2520
Stddev	.0001	.0001	.0006	.0020	.003	.0002	.094	.0005
%RSD	.4474	.1665	29.81	260.5	.0917	1.506	1.154	.1854
#1	.0284	.0373	.0025	-.0015	3.050	.0127	8.155	.2525
#2	.0285	.0375	.0014	.0016	3.054	.0128	8.163	.2515
#3	.0283	.0374	.0025	.0021	3.055	.0131	7.997	.2520

Elem	Tl1908	V_2924	Zn2062
IS Ref	(In2306)	(Y_3600)	(Y_2243)
Avg	F-.0106	.1393	.0474
Stddev	.0011	.0007	.0001
%RSD	10.63	.4842	.1873
#1	-.0105	.1397	.0475
#2	-.0117	.1385	.0473
#3	-.0095	.1397	.0475

Zoom In Zoom Out

Sample Name: FA23243-17 Acquired: 4/3/2015 15:31:36 Type: Unk
Method: 60102007_041712(v214) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	1828.3	8741.2	53486.	4389.7
Stddev	3.0	2.1	357.	42.8
%RSD	.16628	.02420	.66719	.97524
#1	1825.0	8739.7	53109.	4413.6
#2	1831.0	8740.2	53818.	4340.3
#3	1829.1	8743.6	53530.	4415.3

Zoom In Zoom Out

Sample Name: FA23243-18 Acquired: 4/3/2015 15:35:53 Type: Unk
Method: 60102007_041712(v214) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)
Avg	-.0015	41.90	.0733	.2078	.0028	F948.0	.0019	.0057
Stddev	.0003	.07	.0005	.0001	.0001	9.3	.0000	.0000
%RSD	20.42	.1724	.7439	.0405	1.822	.9762	.8347	.7146
#1	-.0015	41.84	.0729	.2078	.0028	939.9	.0019	.0057
#2	-.0017	41.98	.0740	.2078	.0027	958.1	.0019	.0057
#3	-.0011	41.90	.0732	.2079	.0028	946.0	.0019	.0058

Elem	Cr2677	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)
Avg	.1457	.0056	30.91	3.840	187.6	1.063	.0033	7.321
Stddev	.0005	.0001	.06	.006	.6	.003	.0000	.022
%RSD	.3096	2.180	.1965	.1699	.2936	.2871	1.007	.3012
#1	.1462	.0055	30.85	3.836	187.0	1.062	.0033	7.311
#2	.1454	.0057	30.97	3.836	188.1	1.066	.0032	7.347
#3	.1455	.0055	30.90	3.847	187.6	1.060	.0033	7.306

Elem	Ni2316	Pb2203	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)
Avg	.0281	.0684	.0002	.0039	2.206	.0080	2.299	.2954
Stddev	.0001	.0009	.0002	.0007	.003	.0002	.002	.0007
%RSD	.2316	1.346	134.2	17.52	.1203	1.871	.1053	.2355
#1	.0281	.0692	.0004	.0036	2.204	.0079	2.299	.2957
#2	.0281	.0674	.0002	.0034	2.206	.0080	2.302	.2959
#3	.0280	.0685	-.0001	.0047	2.209	.0082	2.297	.2946

Elem	Tl1908	V_2924	Zn2062
IS Ref	(In2306)	(Y_3600)	(Y_2243)
Avg	F-.0136	.1556	.0501
Stddev	.0010	.0002	.0001
%RSD	7.380	.1500	.1315
#1	-.0141	.1554	.0501
#2	-.0142	.1559	.0501
#3	-.0124	.1555	.0500

Zoom In Zoom Out

Sample Name: FA23243-18 Acquired: 4/3/2015 15:35:53 Type: Unk
Method: 60102007_041712(v214) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	1875.4	14397.	87727.	7053.6
Stddev	1.9	33.	114.	46.3
%RSD	.10196	.23041	.12959	.65590
#1	1873.3	14371.	87738.	7105.2
#2	1876.9	14386.	87608.	7015.8
#3	1876.1	14434.	87835.	7039.7

Zoom In Zoom Out

Sample Name: FA23230-2 Acquired: 4/3/2015 15:40:12 Type: Unk
Method: 60102007_041712(v214) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	-.0002	23.10	.0015	.0235	.0002	103.4	.0001	-.0001	.0251	.0087
Stddev	.0004	.07	.0009	.0001	.0001	.3	.0000	.0000	.0002	.0001
%RSD	197.6	.3124	55.98	.4757	63.21	.2496	23.96	26.69	.6846	1.091
#1	.0000	23.04	.0013	.0234	.0001	103.1	.0000	-.0001	.0252	.0086
#2	.0001	23.07	.0025	.0236	.0002	103.6	.0001	-.0001	.0249	.0088
#3	-.0007	23.18	.0008	.0235	.0003	103.5	.0001	-.0001	.0252	.0087

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	3.498	.4783	2.314	.0505	.0008	.2602	.0060	.0171	-.0005	.0039
Stddev	.012	.0115	.009	.0002	.0001	.0079	.0001	.0005	.0002	.0007
%RSD	.3305	2.403	.3766	.4886	7.200	3.023	1.896	3.076	45.55	18.52
#1	3.499	.4684	2.319	.0503	.0008	.2511	.0059	.0177	-.0006	.0039
#2	3.485	.4909	2.319	.0508	.0007	.2647	.0061	.0171	-.0005	.0032
#3	3.508	.4755	2.304	.0505	.0008	.2648	.0060	.0166	-.0002	.0047

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	1.542	.0165	.2022	.8119	-.0003	.0258	.0550
Stddev	.003	.0002	.0003	.0024	.0005	.0002	.0001
%RSD	.1618	1.394	.1317	.2946	160.6	.8129	.1234
#1	1.545	.0167	.2025	.8096	-.0008	.0256	.0550
#2	1.541	.0166	.2020	.8143	-.0002	.0259	.0549
#3	1.540	.0162	.2020	.8117	.0001	.0260	.0550

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	2665.8	7068.4	43630.	3101.8
Stddev	2.6	9.9	117.	15.5
%RSD	.09904	.14062	.26920	.49902
#1	2667.0	7058.1	43745.	3119.5
#2	2662.8	7077.9	43510.	3095.3
#3	2667.7	7069.2	43636.	3090.6

Zoom In Zoom Out

Sample Name: FA23230-8 Acquired: 4/3/2015 15:44:18 Type: Unk
Method: 60102007_041712(v214) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	.0005	11.61	.0090	.2053	.0004	74.55	.0017	.0039	.0203	.0531
Stddev	.0003	.01	.0002	.0001	.0000	.06	.0000	.0000	.0003	.0003
%RSD	59.13	.1081	2.166	.0729	7.009	.0749	1.280	.3303	1.334	.5233
#1	.0002	11.62	.0091	.2053	.0005	74.59	.0017	.0039	.0203	.0528
#2	.0005	11.60	.0088	.2052	.0004	74.49	.0017	.0039	.0205	.0534
#3	.0007	11.60	.0092	.2055	.0004	74.58	.0017	.0039	.0200	.0532

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	27.27	.7221	5.527	.3245	.0010	.8580	.0195	.1676	.0004	.0085
Stddev	.03	.0379	.015	.0011	.0001	.0075	.0001	.0007	.0006	.0009
%RSD	.1144	5.254	.2787	.3459	14.43	.8684	.4825	.3980	139.1	10.56
#1	27.23	.6793	5.517	.3236	.0008	.8651	.0196	.1670	.0010	.0079
#2	27.29	.7518	5.520	.3243	.0010	.8503	.0195	.1683	.0004	.0095
#3	27.27	.7351	5.545	.3258	.0011	.8587	.0194	.1674	-.0002	.0080

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	1.473	.0361	.3309	.4254	-.0004	.0335	.4115
Stddev	.002	.0003	.0007	.0006	.0005	.0003	.0007
%RSD	.1060	.6993	.2242	.1363	125.6	.8391	.1610
#1	1.472	.0360	.3306	.4250	-.0007	.0332	.4118
#2	1.472	.0359	.3304	.4251	.0002	.0337	.4108
#3	1.475	.0364	.3318	.4261	-.0007	.0336	.4120

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	2709.9	7065.1	44096.	3096.7
Stddev	3.1	10.6	58.	11.7
%RSD	.11344	.14995	.13087	.37913
#1	2710.4	7053.0	44142.	3099.5
#2	2706.6	7072.8	44115.	3083.9
#3	2712.7	7069.6	44031.	3106.9

Zoom In Zoom Out

Sample Name: MP28755-MB1 Acquired: 4/3/2015 15:48:23 Type: QC
Method: 60102007_041712(v214) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0002	.0002	-.0003	.0003	.0000	.0492	-.0001	-.0001	.0007	.0007
Stddev	.0003	.0085	.0002	.0002	.0001	.0065	.0000	.0001	.0001	.0001
%RSD	139.3	5436.	84.57	75.55	1640.	13.21	28.81	50.52	10.78	7.913
#1	.0001	.0092	-.0002	.0002	.0001	.0566	-.0001	-.0001	.0008	.0007
#2	-.0005	-.0010	-.0005	.0005	.0000	.0444	-.0001	-.0002	.0007	.0007
#3	-.0003	-.0078	-.0001	.0001	-.0001	.0465	-.0001	-.0001	.0007	.0006
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0443	.0420	.0456	.0003	-.0004	.0072	.0004	.0005	.0007	.0028
Stddev	.0032	.0186	.0092	.0000	.0000	.0050	.0001	.0002	.0007	.0010
%RSD	7.251	44.19	20.30	13.92	12.67	68.98	24.56	32.36	90.21	35.72
#1	.0451	.0308	.0486	.0003	-.0003	.0128	.0003	.0007	.0015	.0021
#2	.0471	.0317	.0529	.0003	-.0004	.0051	.0005	.0003	.0001	.0024
#3	.0408	.0634	.0352	.0002	-.0004	.0036	.0005	.0006	.0007	.0040
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0173	.0228	.0000	.0005	-.0003	-.0001	.0017
Stddev	.0005	.0003	.0001	.0002	.0003	.0001	.0001
%RSD	2.849	1.108	1085.	32.14	106.1	68.73	3.630
#1	.0177	.0230	.0000	.0007	-.0004	.0000	.0017
#2	.0174	.0225	.0001	.0006	.0001	-.0002	.0016
#3	.0167	.0228	.0000	.0003	-.0005	-.0001	.0017
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Zoom In Zoom Out

Sample Name: MP28755-MB1 Acquired: 4/3/2015 15:48:23 Type: QC
Method: 60102007_041712(v214) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2952.1	7120.2	44331.	3076.0
Stddev	6.9	16.2	194.	38.1
%RSD	.23219	.22716	.43771	1.2401
#1	2945.6	7101.9	44400.	3040.6
#2	2959.2	7132.6	44481.	3116.4
#3	2951.5	7126.1	44112.	3071.1

Zoom In Zoom Out

Sample Name: MP28755-B1 Acquired: 4/3/2015 15:52:36 Type: QC
Method: 60102007_041712(v214) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0490	27.90	2.008	2.107	.0525	26.10	.0508	.5155	.2116	.2626
Stddev	.0003	.03	.001	.003	.0002	.08	.0001	.0001	.0002	.0004
%RSD	.6681	.1001	.0329	.1634	.3296	.3010	.1106	.0216	.0941	.1409
#1	.0494	27.87	2.008	2.109	.0526	26.16	.0508	.5154	.2114	.2624
#2	.0487	27.93	2.009	2.109	.0527	26.12	.0508	.5155	.2116	.2623
#3	.0489	27.90	2.008	2.103	.0523	26.01	.0507	.5156	.2118	.2630
Check ?	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass
Value										
Range										

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	26.89	26.37	25.30	.5200	.5027	26.46	.5205	.4908	.4974	1.986
Stddev	.01	.04	.13	.0010	.0002	.04	.0004	.0006	.0015	.003
%RSD	.0328	.1463	.5094	.1844	.0410	.1636	.0847	.1300	.2973	.1657
#1	26.89	26.37	25.34	.5210	.5029	26.50	.5205	.4907	.4957	1.986
#2	26.88	26.33	25.41	.5191	.5028	26.47	.5209	.4902	.4982	1.989
#3	26.90	26.40	25.16	.5198	.5025	26.41	.5200	.4915	.4982	1.982
Check ?	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass
Value										
Range										

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0164	.5370	.5133	.5076	1.999	.4966	.5101
Stddev	.0007	.0022	.0006	.0008	.003	.0003	.0001
%RSD	4.354	.4077	.1231	.1543	.1523	.0652	.0174
#1	.0167	.5383	.5135	.5078	1.999	.4970	.5101
#2	.0170	.5383	.5138	.5067	1.996	.4963	.5100
#3	.0156	.5345	.5126	.5082	2.002	.4966	.5102
Check ?	None	Chk	Pass	None	None	Chk	Pass
Value							
Range							

Zoom In Zoom Out

Sample Name: MP28755-B1 Acquired: 4/3/2015 15:52:36 Type: QC
Method: 60102007_041712(v214) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2603.0	6905.1	42382.	3020.5
Stddev	4.7	10.5	170.	24.6
%RSD	.18021	.15263	.40000	.81319
#1	2599.5	6893.1	42234.	3007.7
#2	2608.3	6909.4	42345.	3005.0
#3	2601.1	6912.8	42567.	3048.8

Zoom In Zoom Out

Sample Name: CCV Acquired: 4/3/2015 15:56:36 Type: QC
Method: 60102007_041712(v214) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2522	41.13	1.990	2.059	2.032	41.18	2.030	2.028	2.068	2.037
Stddev	.0002	.16	.004	.006	.005	.15	.003	.002	.003	.004
%RSD	.0857	.3986	.1754	.2910	.2249	.3712	.1337	.1141	.1455	.1828
#1	.2523	41.32	1.992	2.061	2.037	41.36	2.027	2.025	2.065	2.040
#2	.2524	41.02	1.986	2.064	2.030	41.08	2.033	2.030	2.071	2.037
#3	.2520	41.05	1.991	2.052	2.028	41.11	2.030	2.029	2.069	2.033
Check ?	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass
Value										
Range										

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	41.17	41.71	40.43	2.086	2.010	41.95	2.023	2.004	1.989	1.985
Stddev	.14	.19	.25	.004	.008	.12	.001	.001	.003	.001
%RSD	.3363	.4489	.6267	.2149	.4157	.2925	.0353	.0447	.1496	.0691
#1	41.33	41.90	40.66	2.082	2.001	42.08	2.022	2.003	1.987	1.984
#2	41.11	41.53	40.16	2.086	2.013	41.91	2.023	2.004	1.988	1.986
#3	41.06	41.69	40.48	2.090	2.017	41.85	2.024	2.005	1.993	1.986
Check ?	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass
Value										
Range										

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.049	1.991	2.053	2.082	2.034	2.013	2.024
Stddev	.003	.002	.005	.004	.003	.004	.002
%RSD	.1627	.0847	.2700	.1777	.1489	.1980	.0927
#1	2.046	1.990	2.059	2.078	2.031	2.009	2.022
#2	2.050	1.993	2.053	2.083	2.037	2.013	2.026
#3	2.052	1.992	2.048	2.086	2.035	2.017	2.025
Check ?	None	Chk	Pass	Chk	Pass	Chk	Pass
Value							
Range							

Zoom In Zoom Out

Sample Name: CCV Acquired: 4/3/2015 15:56:36 Type: QC
Method: 60102007_041712(v214) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2477.0	6822.1	41356.	2999.5
Stddev	1.8	6.4	117.	30.1
%RSD	.07362	.09399	.28383	1.0027
#1	2478.6	6829.4	41474.	2976.9
#2	2475.0	6819.9	41355.	3033.7
#3	2477.5	6817.1	41239.	2988.1

Zoom In
Zoom Out

Sample Name: CCB Acquired: 4/3/2015 16:00:33 Type: QC
Method: 60102007_041712(v214) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0002	.0031	.0009	.0003	.0002	-.0053	.0003	.0003	.0004
Stddev	.0001	.0046	.0001	.0001	.0001	.0017	.0000	.0001	.0002
%RSD	54.29	146.8	12.89	22.98	90.40	32.92	8.062	18.71	55.71
#1	-.0001	.0072	.0010	.0004	.0000	-.0056	.0003	.0003	.0004
#2	-.0004	-.0018	.0010	.0002	.0002	-.0068	.0002	.0004	.0001
#3	-.0002	.0039	.0008	.0004	.0003	-.0034	.0003	.0003	.0005
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0001	.0457	.0755	.0298	.0003	F.0048	-.0024	.0003	.0002
Stddev	.0002	.0111	.0245	.0307	.0000	.0015	.0055	.0003	.0004
%RSD	148.7	24.31	32.43	103.0	9.180	30.65	224.7	97.02	282.5
#1	.0000	.0584	.0481	-.0046	.0003	.0063	-.0084	.0000	.0002
#2	-.0001	.0409	.0835	.0396	.0003	.0045	-.0013	.0003	-.0003
#3	-.0003	.0377	.0951	.0545	.0002	.0034	.0024	.0006	.0006
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit						.0010			
Low Limit						-.0010			

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0011	.0010	.0003	.0009	.0001	.0015	.0010	.0002	.0002
Stddev	.0008	.0015	.0006	.0002	.0000	.0002	.0007	.0000	.0001
%RSD	70.24	141.0	174.8	27.33	80.36	10.72	68.60	8.737	68.47
#1	.0015	-.0005	.0002	.0012	.0000	.0016	.0017	.0002	.0003
#2	.0016	.0012	.0009	.0007	.0001	.0016	.0004	.0001	.0001
#3	.0002	.0024	-.0002	.0008	.0001	.0013	.0008	.0002	.0001
Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Zoom In
Zoom Out

Sample Name: CCB Acquired: 4/3/2015 16:00:33 Type: QC
Method: 60102007_041712(v214) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2927.2	7152.4	43856.	3017.4
Stddev	7.6	17.0	640.	24.4
%RSD	.25829	.23763	1.4596	.80816
#1	2918.6	7133.3	43600.	3045.3
#2	2930.4	7158.2	43383.	3000.5
#3	2932.7	7165.8	44584.	3006.2

Zoom In
Zoom Out

Sample Name: FA23275-8 Acquired: 4/3/2015 16:04:46 Type: Unk
Method: 60102007_041712(v214) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	.0009	229.2	.0400	.4823	.0043	6.259	.0000	.0370	.1789	.0842
Stddev	.0003	.6	.0006	.0020	.0001	.017	.000	.0001	.0004	.0002
%RSD	34.13	.2589	1.560	.4227	2.331	.2730	1402.	.2307	.2450	.2322
#1	.0012	229.3	.0404	.4830	.0044	6.256	.0001	.0369	.1785	.0842
#2	.0008	229.8	.0404	.4840	.0042	6.278	-.0001	.0370	.1787	.0840
#3	.0006	228.6	.0393	.4801	.0044	6.244	.0000	.0369	.1794	.0843

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	121.2	5.744	9.768	1.008	.0092	.2407	.1202	.0864	-.0024	.0057
Stddev	.4	.035	.060	.003	.0003	.0064	.0000	.0008	.0005	.0003
%RSD	.3210	.6042	.6118	.2636	3.125	2.672	.0146	.9391	21.40	5.124
#1	121.2	5.780	9.812	1.007	.0093	.2372	.1202	.0856	-.0020	.0057
#2	121.6	5.711	9.791	1.006	.0095	.2367	.1202	.0866	-.0030	.0061
#3	120.8	5.741	9.700	1.011	.0089	.2481	.1202	.0872	-.0023	.0055

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	1.645	.0223	.0689	2.035	-.0008	.2104	.1978
Stddev	.004	.0002	.0001	.004	.0012	.0001	.0006
%RSD	.2205	.9772	.1476	.1882	144.8	.0342	.2803
#1	1.643	.0225	.0691	2.032	.0002	.2105	.1977
#2	1.644	.0221	.0689	2.034	-.0005	.2104	.1974
#3	1.649	.0222	.0689	2.039	-.0022	.2103	.1984

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	2615.7	7877.6	46008.	3354.5
Stddev	3.8	8.9	117.	22.5
%RSD	.14339	.11303	.25530	.67151
#1	2613.6	7868.4	46038.	3329.7
#2	2613.5	7886.2	46107.	3360.3
#3	2620.0	7878.2	45878.	3373.6

Zoom In
Zoom Out

Sample Name: MP28755-D1 Acquired: 4/3/2015 16:08:48 Type: Unk
Method: 60102007_041712(v214) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	.0011	219.1	.0389	.4668	.0041	5.837	.0002	.0372	.1740	.0797
Stddev	.0003	.5	.0005	.0014	.0001	.035	.0000	.0001	.0008	.0002
%RSD	25.23	.2122	1.270	.3086	2.102	.6026	26.03	.3805	.4369	.2448
#1	.0012	218.6	.0393	.4655	.0040	5.797	.0002	.0371	.1747	.0796
#2	.0008	219.5	.0383	.4683	.0042	5.865	.0001	.0373	.1732	.0795
#3	.0014	219.2	.0390	.4665	.0042	5.848	.0002	.0373	.1741	.0799

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	122.4	6.167	10.26	1.068	.0083	.3681	.1191	.0797	-.0030	.0060
Stddev	.3	.022	.09	.002	.0001	.0072	.0001	.0004	.0006	.0003
%RSD	.2311	.3564	.9233	.1881	.8169	1.965	.0931	.5255	20.79	5.080
#1	122.1	6.175	10.16	1.070	.0083	.3620	.1189	.0798	-.0023	.0059
#2	122.7	6.184	10.33	1.066	.0084	.3761	.1191	.0801	-.0034	.0057
#3	122.5	6.142	10.31	1.068	.0083	.3662	.1191	.0793	-.0035	.0063

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	1.868	.0224	.0678	2.172	-.0018	.2168	.2058
Stddev	.002	.0002	.0002	.003	.0011	.0003	.0004
%RSD	.0886	.9662	.2327	.1543	63.95	.1329	.1749
#1	1.867	.0222	.0678	2.176	-.0008	.2171	.2054
#2	1.870	.0226	.0680	2.170	-.0015	.2166	.2060
#3	1.868	.0224	.0676	2.170	-.0030	.2167	.2061

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	2618.5	7790.0	45810.	3383.5
Stddev	2.8	4.1	102.	11.2
%RSD	.10667	.05312	.22229	.32971
#1	2621.7	7787.7	45720.	3387.7
#2	2617.2	7787.6	45920.	3370.8
#3	2616.5	7794.8	45789.	3391.9

Zoom In Zoom Out

Sample Name: MP28755-SD1 Acquired: 4/3/2015 16:12:49 Type: Unk
Method: 60102007_041712(v214) Mode: CONC Corr. Factor: 5.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	.0004	268.4	.0503	.5713	.0044	7.801	.0001	.0455	.2102	.0991
Stddev	.0003	.2	.0032	.0017	.0005	.040	.0001	.0003	.0005	.0017
%RSD	82.73	.0913	6.322	.2945	10.44	.5181	141.6	.5527	.2346	1.689
#1	.0005	268.2	.0501	.5728	.0048	7.811	.0001	.0453	.2108	.0977
#2	.0000	268.2	.0536	.5695	.0044	7.835	.0000	.0455	.2099	.1010
#3	.0006	268.6	.0473	.5717	.0039	7.756	.0001	.0458	.2099	.0988

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	145.6	6.879	11.80	1.178	.0080	.3920	.1458	.0829	-.0044	.0127
Stddev	.3	.170	.03	.003	.0004	.0100	.0003	.0010	.0053	.0126
%RSD	.2280	2.466	.2810	.2301	4.446	2.549	.2358	1.216	119.8	99.20
#1	145.9	6.973	11.84	1.180	.0077	.3969	.1458	.0826	-.0100	.0097
#2	145.2	6.980	11.77	1.175	.0084	.3986	.1462	.0841	-.0036	.0265
#3	145.6	6.683	11.80	1.178	.0080	.3805	.1455	.0821	.0004	.0018

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	1.999	.0268	.0808	2.326	.0007	.2432	.2447
Stddev	.007	.0010	.0004	.004	.0023	.0005	.0005
%RSD	.3419	3.776	.4798	.1806	327.6	.2095	.2186
#1	2.007	.0279	.0805	2.328	.0022	.2434	.2453
#2	1.997	.0268	.0807	2.322	.0018	.2426	.2447
#3	1.994	.0258	.0812	2.329	-.0019	.2436	.2442

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	2797.8	7454.2	44351.	3147.3
Stddev	3.1	4.0	113.	23.2
%RSD	.11141	.05334	.25408	.73556
#1	2797.8	7454.7	44298.	3120.9
#2	2794.6	7450.0	44481.	3156.9
#3	2800.8	7457.9	44275.	3164.2

Zoom In Zoom Out

Sample Name: MP28755-PS1 Acquired: 4/3/2015 16:16:55 Type: Unk
Method: 60102007_041712(v214) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	.0455	225.4	.1293	.7114	.0516	10.85	.0451	.0814	.2243	.1803
Stddev	.0003	1.1	.0004	.0017	.0003	.05	.0001	.0001	.0003	.0001
%RSD	.7026	.4715	.3069	.2357	.4857	.4864	.2106	.1808	.1120	.0731
#1	.0454	224.6	.1289	.7096	.0513	10.80	.0451	.0812	.2240	.1803
#2	.0453	225.1	.1297	.7118	.0516	10.83	.0451	.0814	.2244	.1805
#3	.0459	226.6	.1293	.7128	.0518	10.91	.0450	.0815	.2245	.1802

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	121.1	14.93	13.82	1.041	.0971	10.18	.2086	.1343	.0850	.0910
Stddev	.5	.02	.09	.002	.0002	.04	.0001	.0018	.0014	.0003
%RSD	.4353	.1611	.6268	.1443	.1981	.4131	.0689	1.377	1.664	.3737
#1	120.7	14.91	13.78	1.042	.0968	10.14	.2084	.1341	.0861	.0912
#2	121.0	14.92	13.76	1.039	.0971	10.19	.2086	.1363	.0855	.0913
#3	121.7	14.96	13.92	1.041	.0972	10.22	.2087	.1326	.0834	.0906

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	1.630	.0652	.1136	2.095	.0975	.2529	.4208
Stddev	.000	.0003	.0004	.004	.0001	.0004	.0003
%RSD	.0198	.4845	.3946	.1880	.1231	.1728	.0663
#1	1.630	.0651	.1132	2.099	.0974	.2533	.4211
#2	1.630	.0650	.1135	2.095	.0977	.2525	.4206
#3	1.630	.0656	.1140	2.091	.0975	.2531	.4208

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	2573.5	7813.1	45347.	3351.9
Stddev	4.4	12.6	110.	21.9
%RSD	.16937	.16158	.24321	.65467
#1	2568.5	7798.5	45222.	3363.5
#2	2576.7	7821.2	45385.	3365.6
#3	2575.3	7819.5	45432.	3326.6

Zoom In Zoom Out

Sample Name: MP28755-S1 Acquired: 4/3/2015 16:20:54 Type: Unk
Method: 60102007_041712(v214) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	.0481	250.5	1.777	2.371	.0527	29.64	.0446	.4863	.3724	.3263
Stddev	.0001	.1	.004	.004	.0002	.02	.0001	.0000	.0012	.0003
%RSD	.1799	.0515	.1956	.1905	.3218	.0618	.2130	.0097	.3264	.0909
#1	.0480	250.4	1.781	2.369	.0526	29.65	.0447	.4863	.3710	.3262
#2	.0482	250.6	1.776	2.376	.0526	29.62	.0445	.4863	.3729	.3267
#3	.0482	250.4	1.774	2.367	.0529	29.65	.0446	.4862	.3733	.3261

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	130.1	30.27	32.73	1.454	.4348	25.04	.5695	.5671	.1360	1.740
Stddev	.1	.08	.04	.004	.0003	.03	.0005	.0010	.0012	.000
%RSD	.0495	.2740	.1133	.3020	.0583	.1089	.0842	.1693	.8772	.0164
#1	130.0	30.24	32.77	1.450	.4351	25.05	.5701	.5662	.1348	1.740
#2	130.1	30.37	32.73	1.453	.4346	25.06	.5691	.5681	.1361	1.740
#3	130.0	30.21	32.70	1.459	.4346	25.01	.5694	.5668	.1372	1.740

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	2.066	.4427	.5396	2.485	1.929	.6553	.6347
Stddev	.003	.0003	.0008	.006	.003	.0006	.0007
%RSD	.1631	.0710	.1542	.2336	.1754	.0917	.1181
#1	2.069	.4425	.5392	2.479	1.926	.6549	.6339
#2	2.062	.4425	.5406	2.487	1.928	.6550	.6349
#3	2.066	.4431	.5390	2.490	1.933	.6560	.6353

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	2481.5	7566.8	43832.	3261.1
Stddev	3.0	1.0	126.	17.4
%RSD	.12196	.01260	.28652	.53490
#1	2484.8	7567.0	43976.	3241.0
#2	2480.9	7567.5	43774.	3273.0
#3	2478.8	7565.7	43746.	3269.2

Zoom In Zoom Out

Sample Name: MP28755-S2 Acquired: 4/3/2015 16:24:52 Type: Unk
Method: 60102007_041712(v214) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	.0469	234.0	1.738	2.339	.0520	29.01	.0436	.4777	.3598	.3191
Stddev	.0002	.9	.003	.008	.0004	.10	.0001	.0007	.0007	.0013
%RSD	.3243	.3833	.1924	.3256	.7251	.3471	.2227	.1567	.1852	.4162
#1	.0468	234.8	1.735	2.344	.0524	29.11	.0436	.4777	.3597	.3199
#2	.0471	234.1	1.737	2.343	.0521	28.99	.0436	.4770	.3605	.3197
#3	.0469	233.0	1.742	2.330	.0516	28.91	.0438	.4785	.3592	.3175

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	136.7	29.53	31.83	1.530	.4279	24.65	.5522	.5590	.1340	1.701
Stddev	.4	.12	.07	.002	.0008	.12	.0009	.0007	.0010	.004
%RSD	.2902	.3995	.2350	.1029	.1932	.4881	.1636	.1233	.7700	.2573
#1	137.0	29.59	31.92	1.530	.4274	24.76	.5517	.5585	.1339	1.697
#2	136.8	29.61	31.80	1.529	.4275	24.68	.5516	.5598	.1331	1.703
#3	136.2	29.40	31.78	1.532	.4289	24.52	.5532	.5589	.1351	1.705

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	1.946	.4357	.5280	2.307	1.910	.6366	.6216
Stddev	.004	.0008	.0026	.001	.003	.0006	.0007
%RSD	.2147	.1909	.4955	.0285	.1415	.0868	.1190
#1	1.943	.4359	.5302	2.307	1.907	.6371	.6221
#2	1.943	.4348	.5286	2.308	1.910	.6360	.6208
#3	1.950	.4364	.5251	2.307	1.912	.6367	.6220

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	2497.1	7670.9	44233.	3278.1
Stddev	3.2	6.2	92.	10.8
%RSD	.12890	.08042	.20866	.32895
#1	2499.2	7663.8	44319.	3274.4
#2	2493.4	7674.3	44244.	3290.2
#3	2498.7	7674.6	44136.	3269.6

Zoom In Zoom Out

Sample Name: FA23001-34R Acquired: 4/3/2015 16:28:49 Type: Unk
Method: 60102007_041712(v214) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	.0001	29.53	.0561	.1448	.0007	26.50	.0043	.0043	.0879	.3329
Stddev	.0005	.06	.0007	.0006	.0000	.05	.0000	.0001	.0001	.0009
%RSD	469.1	.1875	1.216	.4215	2.055	.2062	.5902	1.503	.1312	.2775
#1	.0003	29.59	.0553	.1453	.0007	26.53	.0044	.0043	.0880	.3340
#2	.0005	29.48	.0563	.1441	.0007	26.44	.0043	.0042	.0878	.3323
#3	-.0005	29.52	.0566	.1450	.0007	26.54	.0043	.0044	.0878	.3324

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	29.16	2.056	1.626	2.341	.0079	.4434	.0249	.1109	.0044	.0056
Stddev	.05	.034	.020	.007	.0001	.0128	.0001	.0005	.0002	.0009
%RSD	.1740	1.637	1.205	.2876	1.659	2.894	.5770	.4268	4.940	16.23
#1	29.21	2.077	1.644	2.344	.0080	.4500	.0248	.1115	.0043	.0064
#2	29.12	2.017	1.605	2.333	.0079	.4286	.0248	.1105	.0044	.0058
#3	29.14	2.073	1.629	2.345	.0077	.4516	.0251	.1108	.0047	.0046

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	1.651	.0312	.2064	.2349	.0013	.0303	.6533
Stddev	.002	.0003	.0009	.0008	.0004	.0001	.0007
%RSD	.1134	.8330	.4279	.3537	26.92	.1812	.1001
#1	1.650	.0312	.2065	.2358	.0016	.0303	.6526
#2	1.650	.0309	.2054	.2345	.0009	.0304	.6535
#3	1.653	.0314	.2072	.2342	.0014	.0303	.6539

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	2775.9	7393.6	45136.	3185.4
Stddev	2.6	4.1	99.	18.6
%RSD	.09349	.05598	.22025	.58463
#1	2778.7	7390.6	45035.	3193.0
#2	2775.6	7398.3	45234.	3164.1
#3	2773.5	7391.8	45138.	3199.0

Zoom In Zoom Out

Sample Name: FA23001-35R Acquired: 4/3/2015 16:33:02 Type: Unk
Method: 60102007_041712(v214) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	.0005	26.96	.0785	.1253	.0008	118.1	.0057	.0032	.1104	.4371
Stddev	.0003	.04	.0011	.0003	.0000	.1	.0001	.0000	.0003	.0005
%RSD	69.03	.1314	1.352	.2420	5.501	.1261	1.264	.7108	.2486	.1221
#1	.0007	26.95	.0774	.1256	.0008	118.2	.0057	.0033	.1106	.4378
#2	.0006	27.00	.0787	.1252	.0008	118.1	.0056	.0032	.1101	.4368
#3	.0001	26.93	.0795	.1250	.0009	117.9	.0057	.0032	.1103	.4368

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	15.01	2.059	2.001	1.673	.0060	.8967	.0227	.1931	.0028	.0067
Stddev	.01	.021	.015	.001	.0000	.0055	.0001	.0004	.0006	.0010
%RSD	.0849	1.011	.7224	.0788	.2889	.6145	.4036	.2279	21.68	15.75
#1	15.03	2.069	2.009	1.674	.0060	.9027	.0226	.1926	.0021	.0061
#2	15.01	2.072	1.984	1.672	.0060	.8955	.0227	.1934	.0031	.0079
#3	15.00	2.035	2.009	1.673	.0061	.8919	.0227	.1932	.0032	.0060

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	2.471	.0310	.6055	.2613	.0003	.0352	.6648
Stddev	.008	.0003	.0015	.0002	.0003	.0002	.0001
%RSD	.3255	.9035	.2536	.0662	82.25	.4711	.0199
#1	2.480	.0313	.6067	.2615	.0005	.0354	.6650
#2	2.465	.0310	.6060	.2611	.0005	.0352	.6647
#3	2.468	.0307	.6037	.2614	.0000	.0350	.6647

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	2628.9	7285.7	44275.	3166.9
Stddev	3.9	10.4	69.	21.4
%RSD	.14878	.14230	.15582	.67659
#1	2630.9	7277.1	44224.	3142.2
#2	2624.4	7282.8	44247.	3181.0
#3	2631.4	7297.2	44353.	3177.4

Zoom In Zoom Out

Sample Name: FA23001-36R Acquired: 4/3/2015 16:37:06 Type: Unk
Method: 60102007_041712(v214) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	.0008	23.26	.0536	.1262	.0006	101.7	.0177	.0072	.1625	1.053
Stddev	.0002	.10	.0005	.0004	.0000	.2	.0000	.0000	.0005	.003
%RSD	32.53	.4245	.9516	.2890	7.407	.2254	.1265	.6845	.2861	.2357
#1	.0009	23.30	.0535	.1265	.0006	101.8	.0177	.0072	.1621	1.053
#2	.0008	23.15	.0541	.1258	.0006	101.5	.0177	.0071	.1630	1.051
#3	.0005	23.34	.0531	.1262	.0006	101.9	.0178	.0072	.1624	1.056

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	18.92	2.012	2.144	1.827	.0067	.9780	.0344	.2579	.0049	.0069
Stddev	.05	.016	.026	.002	.0001	.0113	.0001	.0013	.0009	.0010
%RSD	.2874	.7762	1.209	.1234	1.157	1.152	.3839	.4952	18.60	15.15
#1	18.90	2.016	2.139	1.829	.0067	.9902	.0342	.2565	.0040	.0077
#2	18.89	2.026	2.172	1.825	.0068	.9679	.0344	.2582	.0047	.0072
#3	18.99	1.995	2.121	1.829	.0066	.9760	.0345	.2590	.0058	.0057

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	2.166	.0320	.5551	.2058	.0007	.0597	1.509
Stddev	.001	.0002	.0015	.0004	.0007	.0004	.001
%RSD	.0426	.6471	.2665	.2029	95.43	.6793	.0608
#1	2.166	.0321	.5559	.2059	.0008	.0594	1.507
#2	2.166	.0321	.5534	.2054	.0000	.0596	1.509
#3	2.165	.0317	.5560	.2062	.0014	.0602	1.509

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	2663.0	7339.6	44509.	3187.7
Stddev	5.9	1.1	58.	7.9
%RSD	.22163	.01494	.13112	.24792
#1	2664.6	7338.3	44484.	3196.6
#2	2668.0	7340.4	44468.	3181.6
#3	2656.5	7340.0	44576.	3185.0

Zoom In Zoom Out

Sample Name: FA23001-37R Acquired: 4/3/2015 16:41:12 Type: Unk
Method: 60102007_041712(v214) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)
Avg	-.0006	21.66	.0858	.1128	.0010	F1151.	.0011	.0033	.0929
Stddev	.0006	.07	.0011	.0007	.0001	9.	.0000	.0001	.0004
%RSD	96.43	.3255	1.252	.6330	5.176	.8209	2.628	4.504	.4552
#1	-.0011	21.66	.0854	.1136	.0011	1147.	.0011	.0034	.0925
#2	.0000	21.59	.0871	.1121	.0010	1144.	.0012	.0033	.0933
#3	-.0007	21.73	.0851	.1127	.0010	1162.	.0011	.0031	.0928

Elem	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
IS Ref	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)
Avg	.1078	19.35	3.571	3.392	.5810	.0011	12.65	.0166	.1595
Stddev	.0006	.06	.019	.064	.0018	.0000	.04	.0001	.0005
%RSD	.5192	.3139	.5377	1.881	.3051	2.297	.3042	.6980	.3042
#1	.1072	19.40	3.557	3.322	.5793	.0011	12.65	.0165	.1599
#2	.1078	19.28	3.593	3.408	.5809	.0011	12.61	.0167	.1590
#3	.1083	19.36	3.564	3.446	.5828	.0012	12.69	.0167	.1597

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	.0025	.0007	2.214	.0234	F5.639	.3045	-.0040	.0426	.4259
Stddev	.0001	.0004	.002	.0001	.055	.0008	.0011	.0003	.0004
%RSD	2.240	62.09	.1091	.2859	.9705	.2701	28.74	.6611	.0996
#1	.0024	.0005	2.216	.0233	5.649	.3039	-.0053	.0427	.4264
#2	.0025	.0011	2.212	.0234	5.580	.3042	-.0036	.0428	.4256
#3	.0025	.0003	2.215	.0235	5.688	.3054	-.0031	.0423	.4258

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	2172.2	6752.7	40909.	3131.7
Stddev	.9	9.0	186.	33.5
%RSD	.04307	.13266	.45469	1.0692
#1	2171.3	6742.7	41113.	3126.7
#2	2173.2	6759.8	40749.	3167.5
#3	2172.1	6755.8	40864.	3101.1

Zoom In Zoom Out

Sample Name: CCV Acquired: 4/3/2015 16:45:32 Type: QC
Method: 60102007_041712(v214) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2538	41.58	1.986	2.063	2.046	41.72	2.032	2.032	2.089	2.049
Stddev	.0013	.13	.002	.007	.005	.10	.002	.001	.006	.005
%RSD	.5185	.3091	.1179	.3499	.2442	.2297	.0724	.0560	.2998	.2644
#1	.2523	41.45	1.987	2.056	2.041	41.66	2.031	2.031	2.082	2.048
#2	.2544	41.71	1.983	2.071	2.051	41.83	2.031	2.031	2.090	2.045
#3	.2547	41.58	1.987	2.062	2.048	41.66	2.034	2.033	2.095	2.055
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value										
Range										

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	41.45	42.06	40.52	2.100	2.013	42.56	2.017	2.006	1.985	1.986
Stddev	.13	.13	.07	.013	.006	.06	.001	.002	.002	.003
%RSD	.3147	.3114	.1671	.6004	.3097	.1351	.0719	.0726	.0872	.1430
#1	41.36	42.00	40.52	2.085	2.006	42.51	2.017	2.007	1.986	1.983
#2	41.60	41.97	40.58	2.104	2.013	42.62	2.015	2.004	1.986	1.986
#3	41.40	42.21	40.44	2.110	2.019	42.55	2.018	2.007	1.983	1.988
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value										
Range										

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.045	1.979	2.071	2.105	2.034	2.014	2.023
Stddev	.000	.003	.005	.011	.004	.005	.003
%RSD	.0168	.1599	.2318	.5137	.2223	.2464	.1597
#1	2.046	1.976	2.066	2.093	2.038	2.009	2.021
#2	2.045	1.980	2.075	2.106	2.035	2.017	2.020
#3	2.045	1.983	2.073	2.115	2.029	2.017	2.026
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Pass
Value							
Range							

Zoom In Zoom Out

Sample Name: CCV Acquired: 4/3/2015 16:45:32 Type: QC
Method: 60102007_041712(v214) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2481.3	6854.1	41400.	2956.7
Stddev	2.7	10.7	225.	20.4
%RSD	.10867	.15637	.54359	.68998
#1	2483.4	6861.7	41658.	2946.5
#2	2482.2	6858.7	41297.	2943.4
#3	2478.3	6841.8	41244.	2980.2

Zoom In Zoom Out

Sample Name: CCB Acquired: 4/3/2015 16:49:30 Type: QC
Method: 60102007_041712(v214) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0001	.0195	.0004	.0003	.0001	.0005	.0003	.0003	.0003
Stddev	.0003	.0044	.0006	.0003	.0001	.0033	.0001	.0002	.0002
%RSD	648.4	22.73	145.8	96.12	57.26	637.9	28.91	49.45	63.99
#1	.0003	.0242	.0010	.0005	.0001	.0026	.0002	.0001	.0001
#2	-.0004	.0153	.0004	.0001	.0002	.0022	.0003	.0004	.0004
#3	-.0001	.0191	-.0002	.0001	.0001	-.0033	.0004	.0004	.0004
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0002	.0374	.0632	.0120	.0002	F.0044	-.0332	.0003	.0002
Stddev	.0002	.0109	.0420	.0341	.0000	.0013	.0077	.0001	.0003
%RSD	76.41	29.15	66.51	284.8	6.653	30.49	23.10	28.43	192.5
#1	-.0003	.0490	.0184	.0508	.0002	.0058	-.0270	.0002	.0005
#2	.0000	.0359	.1018	-.0134	.0002	.0041	-.0418	.0002	.0000
#3	-.0003	.0273	.0693	-.0014	.0002	.0032	-.0308	.0004	-.0001
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit						.0010			
Low Limit						-.0010			

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0002	.0019	-.0003	.0008	.0002	.0012	.0008	.0002	.0001
Stddev	.0005	.0006	.0005	.0002	.0002	.0001	.0000	.0002	.0001
%RSD	357.7	30.66	151.3	23.56	92.15	5.520	3.738	104.1	81.79
#1	.0007	.0025	-.0006	.0006	.0003	.0013	.0008	.0004	.0000
#2	.0000	.0015	-.0005	.0009	.0003	.0012	.0008	.0000	.0001
#3	-.0003	.0016	.0002	.0009	.0000	.0011	.0009	.0003	.0003
Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Zoom In Zoom Out

Sample Name: CCB Acquired: 4/3/2015 16:49:30 Type: QC
Method: 60102007_041712(v214) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2942.9	7166.0	43655.	3016.3
Stddev	3.8	14.7	74.	21.3
%RSD	.13000	.20481	.16991	.70466
#1	2943.4	7181.1	43741.	3037.7
#2	2946.4	7164.9	43611.	2995.1
#3	2938.8	7151.8	43613.	3016.2

Zoom In Zoom Out

Sample Name: FA23001-38R Acquired: 4/3/2015 16:53:43 Type: Unk
Method: 60102007_041712(v214) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	-.0003	49.58	.0109	.0889	.0014	369.2	.0002	.0038	.0558	.0110
Stddev	.0003	.20	.0004	.0003	.0001	1.1	.0000	.0000	.0004	.0001
%RSD	79.23	.4079	3.299	.3078	6.722	.2874	12.21	1.300	.6922	1.206
#1	-.0004	49.58	.0109	.0887	.0015	369.8	.0002	.0038	.0555	.0109
#2	-.0006	49.38	.0113	.0887	.0013	367.9	.0002	.0037	.0557	.0111
#3	-.0001	49.78	.0106	.0892	.0014	369.7	.0002	.0038	.0563	.0109

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	13.99	5.395	2.417	.0927	.0007	3.589	.0168	.0545	.0001	.0034
Stddev	.05	.003	.023	.0004	.0002	.021	.0001	.0004	.0006	.0007
%RSD	.3839	.0476	.9465	.3800	27.29	.5978	.6121	.6848	811.6	21.07
#1	14.02	5.396	2.391	.0923	.0009	3.598	.0167	.0541	-.0001	.0040
#2	13.93	5.396	2.436	.0927	.0007	3.564	.0168	.0545	.0008	.0038
#3	14.03	5.392	2.423	.0930	.0005	3.604	.0169	.0549	-.0004	.0026

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	2.201	.0192	1.725	.3788	-.0010	.0540	.0591
Stddev	.003	.0002	.008	.0013	.0004	.0002	.0002
%RSD	.1366	.9784	.4707	.3539	44.23	.3909	.2581
#1	2.204	.0190	1.728	.3777	-.0007	.0539	.0592
#2	2.198	.0192	1.716	.3786	-.0015	.0538	.0589
#3	2.201	.0193	1.731	.3803	-.0008	.0542	.0592

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	2429.6	7295.2	43562.	3213.7
Stddev	7.0	13.4	226.	15.5
%RSD	.29001	.18414	.51839	.48113
#1	2421.8	7280.0	43783.	3222.7
#2	2431.3	7305.4	43571.	3222.5
#3	2435.6	7300.1	43331.	3195.8

Zoom In Zoom Out

Sample Name: FA23001-39R Acquired: 4/3/2015 16:57:50 Type: Unk
Method: 60102007_041712(v214) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	-.0006	59.87	.0065	.0922	.0015	264.6	.0000	.0039	.0578	.0042
Stddev	.0004	.10	.0002	.0001	.0001	.7	.000	.0000	.0005	.0002
%RSD	56.93	.1632	2.336	.1529	5.391	.2512	67.81	.8911	.8492	4.351
#1	-.0008	59.77	.0065	.0923	.0014	263.9	.0000	.0040	.0572	.0042
#2	-.0009	59.88	.0067	.0921	.0016	265.2	.0000	.0039	.0578	.0043
#3	-.0002	59.97	.0064	.0923	.0016	264.8	-.0001	.0039	.0582	.0040

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	11.48	5.401	2.123	.0429	-.0002	3.118	.0173	.0432	-.0018	.0050
Stddev	.02	.034	.012	.0001	.0001	.006	.0001	.0005	.0003	.0003
%RSD	.1450	.6285	.5849	.2572	61.87	.1834	.6022	1.086	19.27	6.217
#1	11.47	5.364	2.131	.0428	-.0001	3.122	.0174	.0434	-.0014	.0048
#2	11.47	5.407	2.109	.0430	-.0001	3.112	.0173	.0427	-.0019	.0049
#3	11.50	5.431	2.130	.0430	-.0003	3.122	.0171	.0436	-.0021	.0054

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	2.175	.0194	1.229	.3759	-.0010	.0512	.0222
Stddev	.001	.0002	.001	.0007	.0003	.0003	.0000
%RSD	.0332	1.137	.1123	.1799	33.75	.5678	.2180
#1	2.174	.0192	1.227	.3766	-.0011	.0511	.0222
#2	2.176	.0194	1.229	.3755	-.0013	.0510	.0222
#3	2.175	.0197	1.230	.3755	-.0007	.0515	.0223

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	2478.0	7461.0	44002.	3189.6
Stddev	8.0	13.8	129.	21.2
%RSD	.32470	.18450	.29311	.66471
#1	2468.8	7445.4	44149.	3206.8
#2	2483.6	7471.3	43906.	3165.9
#3	2481.8	7466.4	43952.	3196.1

Zoom In Zoom Out

Sample Name: FA23258-35 Acquired: 4/3/2015 17:01:54 Type: Unk
Method: 60102007_041712(v214) Mode: CONC Corr. Factor: 10.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)
Avg	-.0047	24.21	.0060	.4825	.0003	F5686.	-.0046	.0106	.0212
Stddev	.0029	.17	.0040	.0012	.0005	86.	.0006	.0008	.0010
%RSD	61.16	.7050	67.37	.2429	190.6	1.521	12.30	7.323	4.767
#1	-.0071	24.37	.0018	.4827	.0007	5721.	-.0045	.0099	.0200
#2	-.0015	24.03	.0063	.4812	.0004	5750.	-.0052	.0115	.0220
#3	-.0056	24.22	.0098	.4835	-.0003	5588.	-.0040	.0105	.0216

Elem	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
IS Ref	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)
Avg	.0285	19.83	10.13	40.04	.5212	-.0109	32.21	.0227	-.0112
Stddev	.0020	.24	.22	.12	.0006	.0023	.02	.0012	.0061
%RSD	7.175	1.215	2.169	.3074	.1211	20.81	.0686	5.278	54.34
#1	.0268	19.64	10.14	39.91	.5219	-.0126	32.19	.0239	-.0042
#2	.0307	20.10	10.34	40.05	.5207	-.0118	32.21	.0228	-.0151
#3	.0279	19.75	9.901	40.15	.5210	-.0083	32.23	.0215	-.0144

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	.0004	-.0045	2.111	.0166	36.91	.5880	.0003	.0425	.0540
Stddev	.0039	.0124	.006	.0004	.11	.0021	.0025	.0018	.0007
%RSD	965.0	278.5	.2683	2.680	.2966	.3550	916.0	4.325	1.225
#1	.0049	-.0182	2.113	.0161	37.01	.5897	.0022	.0425	.0544
#2	-.0018	-.0012	2.116	.0169	36.80	.5886	.0012	.0444	.0532
#3	-.0019	.0060	2.105	.0168	36.91	.5857	-.0026	.0407	.0543

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	2386.1	6491.4	38879.	2897.1
Stddev	2.8	11.4	97.	14.9
%RSD	.11780	.17496	.25044	.51369
#1	2384.0	6482.5	38814.	2886.4
#2	2385.0	6487.4	38832.	2890.8
#3	2389.3	6504.2	38991.	2914.1

Zoom In Zoom Out

Sample Name: FA23258-37 Acquired: 4/3/2015 17:06:11 Type: Unk
Method: 60102007_041712(v214) Mode: CONC Corr. Factor: 10.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	-.0057	99.35	.0221	1.259	.0038	4972.	-.0040	.0294	.0897	.0805
Stddev	.0008	.24	.0085	.001	.0007	79.	.0003	.0004	.0005	.0029
%RSD	14.27	.2453	38.64	.0824	18.84	1.586	6.350	1.504	.6000	3.584
#1	-.0051	99.11	.0122	1.258	.0046	5060.	-.0040	.0292	.0892	.0785
#2	-.0054	99.35	.0266	1.260	.0033	4909.	-.0037	.0291	.0896	.0792
#3	-.0066	99.60	.0274	1.258	.0035	4946.	-.0042	.0299	.0903	.0838

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	81.16	24.79	250.1	1.790	-.0042	26.48	.0687	.0157	-.0059	-.0033
Stddev	.25	.09	1.3	.007	.0012	.14	.0016	.0024	.0025	.0037
%RSD	.3030	.3582	.5176	.3734	29.25	.5387	2.367	15.25	42.85	111.0
#1	80.93	24.74	249.0	1.782	-.0042	26.49	.0683	.0162	-.0033	-.0037
#2	81.13	24.73	251.5	1.792	-.0030	26.33	.0705	.0177	-.0084	.0005
#3	81.42	24.89	249.7	1.795	-.0054	26.62	.0673	.0131	-.0060	-.0067

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	3.570	.0207	39.51	2.454	.0062	.1766	.2282
Stddev	.005	.0015	.13	.005	.0046	.0009	.0005
%RSD	.1429	7.176	.3241	.2008	73.76	.5096	.2194
#1	3.565	.0216	39.43	2.453	.0046	.1766	.2280
#2	3.572	.0190	39.43	2.450	.0027	.1776	.2278
#3	3.574	.0215	39.65	2.460	.0114	.1758	.2287

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	2399.8	6593.6	40335.	2991.1
Stddev	2.9	5.1	38.	2.9
%RSD	.11885	.07695	.09392	.09825
#1	2400.6	6597.3	40372.	2989.8
#2	2402.2	6595.7	40337.	2989.0
#3	2396.6	6587.8	40296.	2994.5

Zoom In
Zoom Out

Sample Name: FA23258-39 Acquired: 4/3/2015 17:10:25 Type: Unk
Method: 60102007_041712(v214) Mode: CONC Corr. Factor: 10.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)
Avg	-.0075	98.00	.0231	1.067	.0039	F5098.	-.0038	.0309	.0857
Stddev	.0031	.25	.0026	.008	.0007	26.	.0003	.0008	.0012
%RSD	42.16	.2558	11.33	.7735	17.46	.5143	8.377	2.514	1.408
#1	-.0087	98.28	.0259	1.076	.0047	5102.	-.0041	.0300	.0854
#2	-.0039	97.79	.0225	1.065	.0035	5070.	-.0039	.0312	.0847
#3	-.0098	97.94	.0208	1.060	.0035	5122.	-.0035	.0315	.0871

Elem	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
IS Ref	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)
Avg	.0709	80.62	28.55	175.8	1.747	-.0002	41.76	.0712	.0081
Stddev	.0004	.28	.11	1.1	.004	.0010	.13	.0021	.0056
%RSD	.5260	.3508	.3677	.6112	.2015	415.3	.3046	2.918	69.02
#1	.0710	80.76	28.45	177.0	1.743	.0006	41.90	.0702	.0120
#2	.0705	80.29	28.55	175.4	1.750	-.0013	41.75	.0736	.0107
#3	.0713	80.80	28.66	175.0	1.746	.0000	41.65	.0698	.0017

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	-.0092	.0027	3.831	.0224	28.32	2.329	.0026	.1711	.2213
Stddev	.0070	.0086	.004	.0019	.04	.007	.0012	.0011	.0008
%RSD	76.68	321.4	.0974	8.429	.1526	.3159	47.35	.6419	.3668
#1	-.0164	.0110	3.835	.0231	28.37	2.323	.0040	.1702	.2216
#2	-.0023	-.0062	3.829	.0238	28.28	2.337	.0017	.1723	.2220
#3	-.0089	.0032	3.828	.0202	28.31	2.326	.0022	.1709	.2204

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	2397.7	6566.8	40071.	3005.0
Stddev	2.6	7.8	73.	10.1
%RSD	.11024	.11839	.18167	.33681
#1	2394.9	6558.1	39997.	2993.4
#2	2400.2	6569.2	40143.	3009.8
#3	2398.0	6573.1	40072.	3011.9

Zoom In
Zoom Out

Sample Name: FA23258-41 Acquired: 4/3/2015 17:14:41 Type: Unk
Method: 60102007_041712(v214) Mode: CONC Corr. Factor: 10.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	-.0017	134.9	.0263	1.413	.0056	3930.	-.0016	.0393	.1232	.0782
Stddev	.0024	.3	.0075	.004	.0004	24.	.0004	.0008	.0008	.0022
%RSD	142.9	.2228	28.38	.3018	7.453	.6217	25.29	2.050	.6791	2.793
#1	-.0037	134.5	.0275	1.413	.0052	3941.	-.0020	.0399	.1241	.0759
#2	-.0024	135.0	.0184	1.417	.0060	3946.	-.0014	.0397	.1224	.0802
#3	.0010	135.1	.0332	1.408	.0057	3902.	-.0012	.0384	.1231	.0785

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	113.8	38.41	172.3	2.561	.0064	37.01	.0921	.0309	-.0157	.0044
Stddev	.4	.08	.7	.007	.0008	.22	.0019	.0083	.0061	.0009
%RSD	.3111	.2066	.4105	.2715	12.68	.6048	2.112	26.95	39.05	19.97
#1	113.5	38.38	172.0	2.553	.0069	37.15	.0914	.0377	-.0227	.0038
#2	114.2	38.51	171.8	2.563	.0068	37.14	.0906	.0216	-.0112	.0054
#3	113.6	38.36	173.1	2.567	.0054	36.76	.0943	.0332	-.0133	.0040

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	4.079	.0242	33.13	3.065	.0019	.2412	.3078
Stddev	.019	.0015	.11	.009	.0032	.0022	.0014
%RSD	.4748	6.337	.3188	.2986	166.2	.9082	.4396
#1	4.057	.0260	33.15	3.054	.0012	.2391	.3068
#2	4.094	.0231	33.23	3.071	-.0008	.2435	.3072
#3	4.085	.0236	33.02	3.069	.0055	.2411	.3093

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	2439.5	6679.2	40413.	2986.7
Stddev	13.4	22.8	121.	10.1
%RSD	.55010	.34159	.30040	.33783
#1	2454.2	6704.8	40530.	2994.8
#2	2436.4	6671.7	40422.	2989.9
#3	2427.9	6661.1	40287.	2975.4

Zoom In
Zoom Out

Sample Name: FA23272-1 Acquired: 4/3/2015 17:18:49 Type: Unk
Method: 60102007_041712(v214) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	-.0005	1.129	.0038	.0159	.0001	237.8	-.0002	.0000	.0048	.0009
Stddev	.0001	.008	.0006	.0002	.0001	1.2	.0000	.0000	.0002	.0002
%RSD	10.94	.7382	14.74	1.454	140.7	.5236	9.165	30.17	4.446	22.27
#1	-.0005	1.124	.0045	.0159	.0001	237.3	-.0002	.0000	.0048	.0010
#2	-.0005	1.139	.0036	.0161	.0002	239.2	-.0002	.0000	.0045	.0007
#3	-.0006	1.124	.0034	.0156	.0000	236.9	-.0002	.0000	.0049	.0010

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	1.905	2.847	9.176	.0442	-.0010	69.10	.0011	-.0006	-.0009	.0014
Stddev	.009	.014	.051	.0002	.0000	.23	.0002	.0004	.0005	.0011
%RSD	.4440	.4944	.5512	.3459	3.018	.3258	19.93	68.58	57.91	82.58
#1	1.904	2.860	9.168	.0440	-.0010	69.06	.0013	-.0001	-.0006	.0014
#2	1.914	2.832	9.231	.0443	-.0010	69.34	.0010	-.0007	-.0006	.0025
#3	1.897	2.849	9.130	.0443	-.0010	68.90	.0009	-.0009	-.0015	.0002

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	.7070	.0217	1.242	.0318	-.0012	.0050	.0041
Stddev	.0022	.0005	.003	.0001	.0007	.0002	.0000
%RSD	.3122	2.175	.2238	.3493	62.01	4.345	.5100
#1	.7049	.0215	1.241	.0317	-.0015	.0050	.0042
#2	.7067	.0215	1.245	.0320	-.0017	.0048	.0042
#3	.7093	.0223	1.240	.0318	-.0003	.0052	.0041

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	2461.6	6637.6	40586.	2991.2
Stddev	1.5	4.0	95.	40.8
%RSD	.05988	.06049	.23378	1.3631
#1	2460.0	6633.1	40694.	3005.1
#2	2462.8	6639.1	40544.	2945.3
#3	2461.9	6640.7	40519.	3023.2

Zoom In
Zoom Out

Sample Name: FA23272-2 Acquired: 4/3/2015 17:22:59 Type: Unk
Method: 60102007_041712(v214) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	-.0003	1.682	.0073	.0431	.0000	46.59	.0000	-.0003	.0280	.0051
Stddev	.0005	.004	.0002	.0000	.0000	.11	.000	.0000	.0003	.0002
%RSD	196.6	.2170	2.847	.0537	83.51	.2460	23.50	9.184	1.230	3.946
#1	.0003	1.687	.0075	.0430	.0000	46.72	.0000	-.0003	.0284	.0052
#2	-.0006	1.681	.0071	.0431	.0001	46.55	.0000	-.0003	.0277	.0048
#3	-.0005	1.680	.0072	.0431	.0001	46.51	-.0001	-.0003	.0279	.0051

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	3.904	.1280	1.378	.0346	.0002	.6374	.0024	.0166	-.0017	.0005
Stddev	.016	.0189	.034	.0001	.0001	.0011	.0000	.0004	.0012	.0009
%RSD	.4199	14.75	2.493	.2668	34.20	.1658	.5187	2.571	69.53	179.9
#1	3.885	.1176	1.413	.0346	.0002	.6376	.0024	.0168	-.0009	.0004
#2	3.912	.1166	1.344	.0347	.0003	.6362	.0024	.0161	-.0031	-.0004
#3	3.914	.1498	1.377	.0345	.0002	.6383	.0024	.0170	-.0012	.0015

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	.6541	.0220	.1636	.6085	-.0002	.0142	.0226
Stddev	.0014	.0003	.0002	.0011	.0001	.0001	.0001
%RSD	.2174	1.252	.1224	.1840	45.28	.9482	.5930
#1	.6553	.0219	.1638	.6080	-.0002	.0143	.0227
#2	.6544	.0224	.1634	.6098	-.0002	.0140	.0224
#3	.6525	.0218	.1636	.6077	-.0001	.0142	.0226

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	2774.1	7346.8	45262.	3172.8
Stddev	7.0	8.3	203.	11.5
%RSD	.25392	.11309	.44803	.36228
#1	2774.9	7340.6	45038.	3159.8
#2	2780.7	7356.3	45314.	3181.3
#3	2766.7	7343.6	45434.	3177.5

Zoom In Zoom Out

Sample Name: FA23272-3 Acquired: 4/3/2015 17:27:05 Type: Unk
Method: 60102007_041712(v214) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	-.0003	.3955	.0023	.0026	.0000	14.63	-.0001	.0000	.0074	.0019
Stddev	.0001	.0012	.0006	.0001	.0001	.03	.0000	.0000	.0000	.0003
%RSD	33.40	.2989	24.53	3.796	326.7	.2022	32.49	2322.	.5633	13.57
#1	-.0003	.3960	.0029	.0026	-.0001	14.61	-.0001	.0000	.0074	.0022
#2	-.0002	.3941	.0018	.0027	.0000	14.61	-.0001	.0000	.0074	.0020
#3	-.0002	.3963	.0023	.0025	.0001	14.67	.0000	.0000	.0074	.0016

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	.9799	2.608	7.999	.0034	.0002	58.22	.0012	.0006	-.0006	.0028
Stddev	.0053	.035	.021	.0000	.0001	.12	.0001	.0006	.0004	.0014
%RSD	.5377	1.331	.2677	1.130	43.48	.2041	10.50	93.53	67.00	50.47
#1	.9741	2.572	7.994	.0034	.0001	58.09	.0010	.0002	-.0009	.0043
#2	.9810	2.641	7.980	.0035	.0003	58.31	.0012	.0012	-.0007	.0015
#3	.9845	2.612	8.022	.0034	.0002	58.27	.0013	.0004	-.0001	.0027

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	.3159	.0224	.1250	.0196	-.0011	.0029	.0046
Stddev	.0005	.0003	.0001	.0003	.0006	.0001	.0000
%RSD	.1538	1.186	.0477	1.284	53.94	3.695	.9331
#1	.3159	.0226	.1249	.0199	-.0016	.0028	.0047
#2	.3163	.0224	.1250	.0194	-.0004	.0030	.0046
#3	.3153	.0221	.1250	.0194	-.0013	.0029	.0046

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	2679.5	6929.0	42263.	3000.4
Stddev	5.7	10.7	142.	13.0
%RSD	.21316	.15510	.33692	.43423
#1	2673.5	6917.9	42338.	3012.7
#2	2684.8	6939.4	42099.	2986.8
#3	2680.4	6929.7	42352.	3001.8

Zoom In Zoom Out

Sample Name: FA23272-4 Acquired: 4/3/2015 17:31:15 Type: Unk
Method: 60102007_041712(v214) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	-.0004	1.088	.0035	.0144	.0001	103.6	-.0001	.0000	.0331	.0052
Stddev	.0001	.018	.0006	.0002	.0001	.0	.0000	.000	.0004	.0002
%RSD	26.92	1.684	16.87	1.513	75.53	.0208	12.60	2910.	1.104	3.459
#1	-.0003	1.067	.0041	.0142	.0001	103.6	-.0001	.0000	.0335	.0052
#2	-.0004	1.092	.0029	.0146	.0000	103.6	-.0001	.0001	.0328	.0050
#3	-.0005	1.103	.0034	.0145	.0001	103.5	-.0001	-.0001	.0329	.0053

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	1.763	.1783	3.275	.0308	-.0008	1.212	.0027	.0060	-.0008	.0015
Stddev	.006	.0078	.025	.0001	.0001	.014	.0001	.0004	.0004	.0014
%RSD	.3171	4.356	.7645	.3862	16.02	1.188	2.562	6.504	53.08	91.77
#1	1.758	.1843	3.266	.0309	-.0010	1.227	.0026	.0056	-.0004	.0029
#2	1.769	.1809	3.256	.0307	-.0007	1.210	.0028	.0061	-.0007	.0015
#3	1.762	.1695	3.303	.0307	-.0008	1.199	.0026	.0064	-.0013	.0001

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	.6260	.0214	.7697	.2919	.0003	.0078	.0137
Stddev	.0017	.0002	.0016	.0004	.0006	.0001	.0001
%RSD	.2752	.9001	.2128	.1209	187.5	.8827	.4116
#1	.6278	.0213	.7711	.2923	.0007	.0078	.0137
#2	.6243	.0213	.7701	.2918	.0008	.0079	.0138
#3	.6260	.0216	.7679	.2916	-.0004	.0077	.0138

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	2682.8	7002.7	42734.	3023.0
Stddev	6.0	5.7	187.	17.7
%RSD	.22442	.08199	.43859	.58494
#1	2681.2	7004.1	42542.	3019.3
#2	2677.8	6996.4	42743.	3042.2
#3	2689.5	7007.6	42917.	3007.4

Zoom In Zoom Out

Sample Name: CCV Acquired: 4/3/2015 17:35:22 Type: QC
Method: 60102007_041712(v214) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2552	41.46	1.989	2.080	2.039	41.50	2.033	2.032	2.096	2.052
Stddev	.0007	.13	.003	.001	.003	.09	.001	.001	.003	.006
%RSD	.2793	.3144	.1361	.0367	.1332	.2119	.0480	.0511	.1627	.3143
#1	.2546	41.46	1.987	2.080	2.039	41.49	2.032	2.031	2.095	2.047
#2	.2560	41.33	1.992	2.080	2.037	41.42	2.033	2.031	2.093	2.051
#3	.2549	41.60	1.988	2.079	2.042	41.60	2.034	2.033	2.099	2.059
Check ?	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass
Value																				
Range																				

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	41.43	42.19	40.44	2.115	2.014	42.55	2.020	2.017	1.985	1.984
Stddev	.07	.04	.05	.004	.008	.05	.001	.005	.002	.003
%RSD	.1577	.0956	.1319	.1984	.3837	.1210	.0256	.2656	.0837	.1369
#1	41.38	42.23	40.41	2.112	2.006	42.58	2.020	2.020	1.984	1.981
#2	41.41	42.15	40.50	2.120	2.015	42.50	2.019	2.011	1.986	1.984
#3	41.50	42.18	40.41	2.113	2.021	42.59	2.020	2.020	1.983	1.986
Check ?	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass
Value																				
Range																				

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.046	1.979	2.071	2.113	2.046	2.023	2.023
Stddev	.002	.002	.001	.003	.001	.001	.001
%RSD	.1063	.0820	.0655	.1272	.0611	.0286	.0526
#1	2.045	1.979	2.072	2.109	2.046	2.023	2.024
#2	2.046	1.977	2.070	2.114	2.045	2.024	2.022
#3	2.049	1.980	2.071	2.114	2.047	2.022	2.024
Check ?	None	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass
Value													
Range													

Zoom In Zoom Out

Sample Name: CCV Acquired: 4/3/2015 17:35:22 Type: QC
Method: 60102007_041712(v214) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2478.9	6863.5	41066.	2948.8
Stddev	5.7	10.4	67.	3.7
%RSD	.22960	.15222	.16351	.12559
#1	2473.3	6851.4	41002.	2951.5
#2	2484.7	6870.5	41060.	2950.3
#3	2478.8	6868.5	41136.	2944.6

Zoom In Zoom Out

Sample Name: CCB Acquired: 4/3/2015 17:39:19 Type: QC
Method: 60102007_041712(v214) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0003	.0074	.0006	.0005	.0001	-.0088	.0003	.0002	.0003
Stddev	.0003	.0135	.0002	.0001	.0001	.0018	.0000	.0001	.0001
%RSD	98.22	181.4	34.00	21.23	61.30	20.53	10.46	22.48	34.79
#1	-.0002	.0029	.0008	.0005	.0002	-.0068	.0004	.0002	.0002
#2	.0000	-.0032	.0004	.0004	.0000	-.0102	.0003	.0002	.0004
#3	-.0006	.0226	.0005	.0006	.0001	-.0094	.0003	.0003	.0003
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0001	.0402	.0560	.0005	.0003	F.0050	-.0253	.0004	.0005
Stddev	.0001	.0104	.0212	.0275	.0000	.0015	.0100	.0000	.0002
%RSD	157.4	25.78	37.87	5254.	12.97	30.10	39.33	11.47	54.53
#1	-.0001	.0511	.0694	.0289	.0003	.0066	-.0201	.0004	.0003
#2	.0000	.0389	.0316	-.0013	.0003	.0048	-.0191	.0004	.0004
#3	-.0002	.0305	.0671	-.0260	.0003	.0037	-.0368	.0004	.0007
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit						.0010			
Low Limit						-.0010			

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0002	.0014	.0002	.0006	.0000	.0014	.0007	.0001	.0001
Stddev	.0006	.0017	.0006	.0002	.0001	.0001	.0001	.0003	.0000
%RSD	427.1	117.0	288.9	36.22	528.9	8.988	18.85	576.2	20.23
#1	-.0004	-.0002	-.0005	.0008	.0002	.0014	.0008	.0003	.0001
#2	.0000	.0014	.0006	.0004	.0000	.0015	.0007	-.0003	.0002
#3	.0008	.0031	.0004	.0007	-.0001	.0012	.0006	.0002	.0002
Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Zoom In Zoom Out

Sample Name: CCB Acquired: 4/3/2015 17:39:19 Type: QC
Method: 60102007_041712(v214) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2937.3	7179.7	43298.	2965.4
Stddev	1.3	3.7	147.	6.2
%RSD	.04498	.05142	.33971	.21070
#1	2938.6	7182.8	43446.	2969.5
#2	2937.3	7175.6	43152.	2968.6
#3	2936.0	7180.6	43297.	2958.2

Zoom In Zoom Out

Sample Name: FA23272-5 Acquired: 4/3/2015 17:43:33 Type: Unk
Method: 60102007_041712(v214) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	-.0012	3.243	.0164	.0350	.0014	86.91	.0010	.0017	.0341	.0011
Stddev	.0002	.015	.0002	.0001	.0001	.17	.0000	.0000	.0004	.0001
%RSD	16.08	.4588	1.092	.1813	3.738	.1939	1.259	.8054	1.067	6.154
#1	-.0011	3.251	.0166	.0350	.0015	86.86	.0010	.0017	.0342	.0011
#2	-.0014	3.226	.0162	.0350	.0014	86.77	.0010	.0017	.0336	.0012
#3	-.0010	3.252	.0164	.0351	.0014	87.10	.0010	.0017	.0343	.0010

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	6.830	2.076	8.988	.1195	.0025	41.05	.0036	.0129	-.0016	.0025
Stddev	.016	.010	.034	.0005	.0002	.05	.0001	.0003	.0006	.0006
%RSD	.2368	.4975	.3723	.3958	9.233	.1326	1.411	1.989	40.79	24.15
#1	6.826	2.070	9.014	.1199	.0027	41.06	.0035	.0131	-.0023	.0031
#2	6.816	2.069	9.000	.1190	.0026	40.99	.0036	.0127	-.0014	.0026
#3	6.848	2.088	8.950	.1197	.0022	41.10	.0036	.0128	-.0010	.0019

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	.6773	.0147	.5469	.1488	-.0004	.0162	.0224
Stddev	.0008	.0002	.0012	.0003	.0006	.0001	.0000
%RSD	.1119	1.155	.2245	.2344	148.1	.4228	.1635
#1	.6775	.0149	.5471	.1489	-.0002	.0163	.0224
#2	.6765	.0147	.5456	.1484	.0000	.0162	.0223
#3	.6779	.0146	.5481	.1490	-.0011	.0162	.0223

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	2549.8	10040.	60405.	4313.4
Stddev	2.1	14.	512.	18.7
%RSD	.08047	.14432	.84714	.43385
#1	2548.5	10030.	59964.	4302.2
#2	2552.2	10057.	60966.	4303.1
#3	2548.8	10033.	60286.	4335.0

Zoom In Zoom Out

Sample Name: FA23272-6 Acquired: 4/3/2015 17:47:38 Type: Unk
Method: 60102007_041712(v214) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)
Avg	-.0021	3.560	.0313	.0562	.0014	F1261.	-.0004	.0019	.0344
Stddev	.0002	.002	.0004	.0003	.0000	12.	.0000	.0001	.0002
%RSD	11.12	.0422	1.393	.4754	2.733	.9862	4.467	3.773	.7109
#1	-.0024	3.562	.0308	.0560	.0013	1265.	-.0004	.0019	.0344
#2	-.0019	3.560	.0315	.0565	.0013	1247.	-.0004	.0020	.0341
#3	-.0021	3.559	.0317	.0560	.0014	1270.	-.0004	.0019	.0346

Elem	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
IS Ref	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)
Avg	.0008	15.25	1.645	7.113	.3393	.0015	37.87	.0034	.0210
Stddev	.0003	.04	.017	.037	.0005	.0001	.07	.0001	.0000
%RSD	40.95	.2953	1.006	.5177	.1364	6.476	.1873	4.276	.1328
#1	.0010	15.22	1.628	7.109	.3398	.0015	37.81	.0032	.0210
#2	.0011	15.30	1.661	7.152	.3394	.0015	37.95	.0035	.0210
#3	.0005	15.22	1.646	7.078	.3388	.0014	37.86	.0035	.0210

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	.0006	-.0006	.8617	.0136	F6.417	.2143	-.0060	.0342	.0204
Stddev	.0005	.0003	.0035	.0001	.098	.0008	.0012	.0002	.0000
%RSD	87.19	45.12	.4060	1.093	1.526	.3737	20.62	.4889	.2166
#1	.0004	-.0007	.8651	.0137	6.504	.2150	-.0047	.0344	.0204
#2	.0001	-.0003	.8618	.0135	6.436	.2144	-.0071	.0341	.0204
#3	.0011	-.0007	.8581	.0135	6.311	.2134	-.0063	.0342	.0203

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	2055.7	8549.9	51111.	3964.3
Stddev	6.6	33.7	25.	19.3
%RSD	.32316	.39460	.04852	.48806
#1	2051.4	8521.3	51139.	3970.0
#2	2052.3	8541.1	51096.	3980.1
#3	2063.3	8587.1	51097.	3942.7

Zoom In
Zoom Out

Sample Name: FA23272-7 Acquired: 4/3/2015 17:51:59 Type: Unk
Method: 60102007_041712(v214) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)
Avg	-.0019	5.430	.0336	.0535	.0014	F939.1	-.0004	.0020	.0369
Stddev	.0001	.021	.0005	.0001	.0001	14.0	.0000	.0000	.0006
%RSD	6.783	.3894	1.637	.1344	5.741	1.495	.9380	2.198	1.703
#1	-.0020	5.413	.0340	.0536	.0013	947.2	-.0004	.0019	.0362
#2	-.0018	5.425	.0330	.0535	.0015	922.9	-.0004	.0020	.0370
#3	-.0018	5.454	.0337	.0536	.0015	947.3	-.0004	.0020	.0375

Elem	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
IS Ref	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)
Avg	.0015	22.19	.8440	4.736	.2037	.0000	12.97	.0036	.0285
Stddev	.0001	.07	.0067	.019	.0006	.000	.06	.0001	.0008
%RSD	8.844	.3290	.7968	.3982	.2814	464.0	.4525	3.274	2.781
#1	.0015	22.16	.8403	4.745	.2030	-.0001	12.96	.0034	.0290
#2	.0017	22.14	.8398	4.714	.2041	.0001	12.92	.0036	.0276
#3	.0014	22.28	.8517	4.748	.2038	-.0001	13.03	.0037	.0290

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	-.0006	-.0006	1.000	.0145	F4.692	.3546	-.0051	.0394	.0274
Stddev	.0004	.0012	.006	.0001	.028	.0009	.0016	.0001	.0001
%RSD	69.65	207.6	.5691	1.007	.6014	.2496	31.54	.3484	.3819
#1	-.0001	-.0014	1.007	.0146	4.700	.3536	-.0063	.0392	.0275
#2	-.0007	.0008	.9973	.0144	4.661	.3553	-.0033	.0394	.0274
#3	-.0009	-.0011	.9964	.0143	4.715	.3550	-.0058	.0395	.0273

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	2138.9	8626.4	51671.	3910.5
Stddev	15.1	47.7	242.	35.4
%RSD	.70725	.55335	.46798	.90468
#1	2121.5	8571.9	51950.	3906.7
#2	2148.2	8646.1	51548.	3947.7
#3	2147.0	8661.1	51516.	3877.2

Zoom In
Zoom Out

Sample Name: FA23272-8 Acquired: 4/3/2015 17:56:21 Type: Unk
Method: 60102007_041712(v214) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)
Avg	-.0015	3.186	.1235	.1125	.0004	F4471.	-.0045	.0016
Stddev	.0003	.010	.0012	.0008	.0001	62.	.0001	.0001
%RSD	22.12	.3232	.9431	.6951	23.12	1.381	2.214	3.941
#1	-.0019	3.197	.1223	.1116	.0004	4416.	-.0044	.0017
#2	-.0012	3.184	.1235	.1130	.0004	4459.	-.0045	.0015
#3	-.0015	3.177	.1246	.1128	.0003	4538.	-.0046	.0016

Elem	Cr2677	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)
Avg	.0139	-.0025	53.06	1.332	6.151	.3967	-.0001	76.83
Stddev	.0002	.0004	.30	.010	.066	.0005	.0001	.34
%RSD	1.419	17.62	.5602	.7500	1.068	.1280	131.5	.4438
#1	.0139	-.0030	52.72	1.320	6.076	.3972	.0000	76.45
#2	.0141	-.0023	53.29	1.337	6.199	.3963	-.0001	77.12
#3	.0137	-.0023	53.16	1.337	6.177	.3964	-.0002	76.91

Elem	Ni2316	Pb2203	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)
Avg	.0030	.0151	.0056	-.0056	.9735	.0169	F27.66	.0261
Stddev	.0001	.0004	.0006	.0003	.0024	.0002	.13	.0006
%RSD	1.647	2.640	10.81	5.812	.2487	1.384	.4603	2.111
#1	.0031	.0149	.0049	-.0058	.9754	.0172	27.53	.0258
#2	.0030	.0148	.0061	-.0053	.9707	.0167	27.79	.0258
#3	.0031	.0155	.0058	-.0058	.9743	.0169	27.66	.0267

Elem	Tl1908	V_2924	Zn2062
IS Ref	(In2306)	(Y_3600)	(Y_2243)
Avg	F-.0169	.1300	.0099
Stddev	.0017	.0007	.0001
%RSD	9.804	.5420	1.483
#1	-.0162	.1308	.0101
#2	-.0157	.1296	.0099
#3	-.0188	.1296	.0098

Zoom In
Zoom Out

Sample Name: FA23272-8 Acquired: 4/3/2015 17:56:21 Type: Unk
Method: 60102007_041712(v214) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	1691.1	5541.1	33240.	2749.7
Stddev	4.7	7.2	45.	12.6
%RSD	.27915	.12989	.13594	.45857
#1	1685.8	5534.5	33218.	2763.4
#2	1692.9	5540.0	33293.	2747.1
#3	1694.7	5548.8	33211.	2738.6

Zoom In
Zoom Out

Sample Name: FA23272-9 Acquired: 4/3/2015 18:00:41 Type: Unk
Method: 60102007_041712(v214) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)
Avg	-.0014	5.199	.0671	.0351	.0010	F1205.	-.0009	.0023	.0309
Stddev	.0004	.029	.0002	.0002	.0000	5.	.0000	.0000	.0001
%RSD	29.89	.5497	.3084	.6000	1.392	.4060	4.018	2.117	.3318
#1	-.0019	5.219	.0672	.0354	.0011	1210.	-.0009	.0023	.0311
#2	-.0013	5.166	.0668	.0350	.0010	1206.	-.0009	.0023	.0309
#3	-.0010	5.212	.0672	.0350	.0010	1200.	-.0009	.0022	.0309

Elem	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
IS Ref	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)
Avg	.0010	38.28	3.012	11.72	.3004	.0000	62.03	.0043	.0169
Stddev	.0001	.13	.017	.08	.0003	.0001	.20	.0002	.0008
%RSD	9.754	.3385	.5550	.6777	.0907	255.0	.3173	5.720	4.742
#1	.0011	38.39	3.018	11.77	.3002	.0000	62.19	.0040	.0178
#2	.0009	38.14	3.024	11.62	.3002	-.0001	61.81	.0043	.0163
#3	.0010	38.32	2.993	11.75	.3007	.0002	62.09	.0045	.0166

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	.0004	-.0015	1.066	.0171	F5.942	.1233	-.0047	.0712	.0262
Stddev	.0007	.0011	.003	.0001	.015	.0001	.0000	.0001	.0001
%RSD	167.6	69.70	.2775	.5980	.2458	.0892	.6183	.0868	.2454
#1	.0011	-.0020	1.064	.0170	5.952	.1232	-.0047	.0712	.0261
#2	-.0003	-.0003	1.069	.0172	5.925	.1233	-.0047	.0713	.0262
#3	.0005	-.0023	1.065	.0170	5.949	.1234	-.0046	.0712	.0261

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	2111.1	7329.1	43389.	3289.2
Stddev	7.8	22.0	102.	7.4
%RSD	.36932	.29975	.23413	.22462
#1	2110.9	7333.8	43487.	3281.3
#2	2103.4	7305.1	43396.	3295.9
#3	2119.0	7348.3	43284.	3290.3

Zoom In Zoom Out

Sample Name: CRIA Acquired: 4/3/2015 18:05:03 Type: Unk
Method: 60102007_041712(v214) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	.0096	.2182	.0101	.2112	.0052	1.171	.0052	.0538	.0112	.0267
Stddev	.0001	.0128	.0003	.0009	.0001	.004	.0000	.0002	.0001	.0003
%RSD	1.537	5.886	3.002	.4310	2.259	.3628	.8256	.3593	.9852	1.165
#1	.0097	.2182	.0099	.2112	.0053	1.171	.0052	.0540	.0111	.0264
#2	.0096	.2310	.0104	.2120	.0052	1.175	.0052	.0538	.0113	.0270
#3	.0094	.2054	.0099	.2102	.0050	1.166	.0052	.0536	.0113	.0268

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	.3447	11.04	5.217	.0165	.0493	11.08	.0429	.0049	.0042	.0112
Stddev	.0036	.02	.057	.0000	.0001	.01	.0003	.0006	.0013	.0002
%RSD	1.057	.1642	1.101	.0249	.1077	.1205	.6599	12.96	31.47	1.576
#1	.3480	11.02	5.219	.0165	.0493	11.09	.0431	.0049	.0045	.0114
#2	.3408	11.06	5.274	.0164	.0493	11.09	.0426	.0056	.0053	.0113
#3	.3454	11.03	5.159	.0165	.0494	11.07	.0429	.0043	.0027	.0110

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	.0432	.0518	.0108	.0105	.0105	.0501	.0217
Stddev	.0002	.0001	.0000	.0001	.0003	.0001	.0000
%RSD	.5109	.0999	.3076	.6577	2.760	.2584	.1819
#1	.0433	.0518	.0107	.0104	.0103	.0502	.0217
#2	.0430	.0518	.0108	.0105	.0109	.0502	.0216
#3	.0434	.0519	.0108	.0105	.0104	.0500	.0217

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	2790.4	7091.1	42028.	2864.0
Stddev	6.7	16.5	178.	16.0
%RSD	.24063	.23211	.42352	.55964
#1	2787.8	7081.9	42128.	2846.0
#2	2798.0	7110.1	41822.	2869.5
#3	2785.4	7081.3	42133.	2876.6

Zoom In Zoom Out

Sample Name: ICSA Acquired: 4/3/2015 18:09:11 Type: Unk
Method: 60102007_041712(v214) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)
Avg	.0001	F524.7	.0002	.0007	.0000	495.3	-.0001	-.0004
Stddev	.0006	1.0	.0006	.0003	.0001	2.6	.0001	.0001
%RSD	451.3	.1946	289.0	47.37	175.3	.5331	45.75	33.40
#1	-.0006	525.7	.0009	.0007	.0001	495.1	-.0002	-.0002
#2	.0005	524.8	.0001	.0003	.0000	492.7	-.0002	-.0005
#3	.0004	523.7	-.0003	.0010	.0000	498.0	-.0001	-.0004

Elem	Cr2677	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)
Avg	.0009	-.0009	186.9	.1477	486.3	-.0001	.0001	.1699
Stddev	.0004	.0001	.3	.0143	.7	.0000	.0001	.0048
%RSD	39.64	14.62	.1661	9.651	.1400	34.81	240.7	2.828
#1	.0007	-.0009	187.1	.1615	487.0	.0000	.0000	.1714
#2	.0013	-.0011	187.0	.1331	485.6	-.0001	-.0001	.1645
#3	.0007	-.0008	186.5	.1484	486.3	.0000	.0002	.1738

Elem	Ni2316	Pb2203	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)
Avg	.0006	F-.0070	-.0028	.0045	.0460	.0007	.0002	.0011
Stddev	.0002	.0002	.0024	.0015	.0004	.0002	.0001	.0001
%RSD	28.89	2.508	84.58	32.84	.8761	35.70	40.24	12.73
#1	.0007	-.0071	-.0054	.0061	.0455	.0009	.0003	.0011
#2	.0004	-.0072	-.0007	.0042	.0463	.0006	.0002	.0013
#3	.0007	-.0068	-.0023	.0032	.0461	.0004	.0001	.0011

Elem	Tl1908	V_2924	Zn2062
IS Ref	(In2306)	(Y_3600)	(Y_2243)
Avg	.0002	.0001	-.0024
Stddev	.0006	.0001	.0001
%RSD	318.2	217.5	3.884
#1	-.0005	.0002	-.0025
#2	.0007	-.0001	-.0023
#3	.0004	.0000	-.0023

Zoom In Zoom Out

Sample Name: ICSA Acquired: 4/3/2015 18:09:11 Type: Unk
Method: 60102007_041712(v214) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	2152.2	6312.7	36238.	2714.1
Stddev	3.8	3.5	276.	10.4
%RSD	.17498	.05589	.76293	.38238
#1	2155.5	6314.8	36305.	2717.3
#2	2152.9	6314.6	35934.	2722.5
#3	2148.1	6308.6	36474.	2702.5

Zoom In Zoom Out

Sample Name: ICSAB Acquired: 4/3/2015 18:13:21 Type: Unk
Method: 60102007_041712(v214) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)
Avg	F1.001	F524.0	1.021	.5286	.5149	495.5	.9232	.4737	.5200
Stddev	.003	2.0	.003	.0021	.0010	3.2	.0010	.0006	.0016
%RSD	.2664	.3899	.3116	.3945	.1987	.6511	.1055	.1240	.3039
#1	.9986	524.6	1.020	.5298	.5158	499.1	.9221	.4730	.5182
#2	1.004	521.8	1.019	.5262	.5138	494.5	.9240	.4737	.5208
#3	1.000	525.7	1.025	.5298	.5152	492.9	.9235	.4742	.5210

Elem	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
IS Ref	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)
Avg	.5555	190.6	.1169	484.5	.5220	.9435	.1647	.9362	.9697
Stddev	.0003	.5	.0192	1.9	.0022	.0018	.0121	.0007	.0020
%RSD	.0485	.2821	16.39	.3988	.4143	.1897	7.373	.0759	.2095
#1	.5557	190.7	.0971	484.6	.5196	.9415	.1782	.9368	.9710
#2	.5557	190.0	.1184	482.6	.5239	.9441	.1548	.9365	.9708
#3	.5552	191.0	.1353	486.4	.5226	.9450	.1610	.9354	.9674

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	1.038	.9955	.1024	.9166	1.062	1.069	.9742	.4857	.9488
Stddev	.003	.0040	.0008	.0017	.003	.002	.0001	.0018	.0013
%RSD	.2993	.4014	.7347	.1842	.3137	.1494	.0097	.3747	.1344
#1	1.036	.9996	.1016	.9147	1.063	1.067	.9742	.4842	.9474
#2	1.035	.9916	.1023	.9171	1.058	1.070	.9741	.4877	.9493
#3	1.041	.9952	.1032	.9180	1.064	1.070	.9743	.4852	.9498

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	2125.2	6309.6	36140.	2693.6
Stddev	3.9	2.3	187.	12.6
%RSD	.18196	.03635	.51880	.46760
#1	2121.7	6311.2	36303.	2700.2
#2	2124.6	6307.0	35935.	2701.6
#3	2129.4	6310.6	36180.	2679.1

Zoom In
Zoom Out

Sample Name: CCV Acquired: 4/3/2015 18:17:28 Type: QC
Method: 60102007_041712(v214) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2566	42.57	1.957	2.085	2.038	42.34	2.033	2.031	2.157	2.083
Stddev	.0006	.12	.001	.006	.006	.16	.001	.001	.005	.004
%RSD	.2299	.2869	.0436	.2800	.2841	.3669	.0245	.0541	.2463	.1772
#1	.2569	42.51	1.958	2.080	2.037	42.28	2.033	2.030	2.157	2.079
#2	.2569	42.49	1.957	2.084	2.033	42.23	2.033	2.032	2.163	2.085
#3	.2559	42.71	1.957	2.091	2.045	42.52	2.032	2.030	2.152	2.086
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value										
Range										

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	41.85	43.81	40.34	2.134	2.004	43.93	1.995	2.027	1.963	1.962
Stddev	.12	.10	.15	.004	.007	.13	.001	.005	.005	.004
%RSD	.2797	.2360	.3640	.1760	.3484	.2898	.0553	.2492	.2792	.2014
#1	41.77	43.79	40.30	2.136	1.996	43.85	1.995	2.032	1.962	1.959
#2	41.80	43.72	40.22	2.136	2.005	43.87	1.996	2.024	1.969	1.966
#3	41.99	43.92	40.50	2.129	2.010	44.08	1.994	2.024	1.958	1.959
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value										
Range										

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.020	1.932	2.112	2.144	2.053	2.031	2.022
Stddev	.003	.003	.007	.004	.002	.003	.001
%RSD	.1403	.1639	.3301	.1732	.0942	.1299	.0338
#1	2.017	1.929	2.107	2.144	2.054	2.033	2.023
#2	2.022	1.936	2.109	2.147	2.051	2.031	2.022
#3	2.020	1.932	2.120	2.140	2.054	2.028	2.022
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Pass
Value							
Range							

Zoom In
Zoom Out

Sample Name: CCV Acquired: 4/3/2015 18:17:28 Type: QC
Method: 60102007_041712(v214) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2459.3	6860.8	40060.	2796.4
Stddev	5.6	4.0	113.	14.7
%RSD	.22634	.05815	.28098	.52526
#1	2455.3	6856.3	39973.	2786.2
#2	2465.7	6864.1	40021.	2813.2
#3	2457.0	6862.0	40187.	2789.8

Zoom In
Zoom Out

Sample Name: CCB Acquired: 4/3/2015 18:21:26 Type: QC
Method: 60102007_041712(v214) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0003	.0093	.0002	.0004	.0001	.0070	.0001	.0002	.0001
Stddev	.0003	.0136	.0002	.0002	.0000	.0066	.0001	.0001	.0003
%RSD	99.14	146.4	105.2	42.95	26.65	94.15	46.97	42.64	343.5
#1	-.0001	.0228	.0003	.0006	.0001	.0137	.0002	.0003	.0004
#2	-.0002	.0095	.0003	.0002	.0001	.0005	.0001	.0001	-.0001
#3	-.0007	-.0044	.0000	.0005	.0001	.0069	.0001	.0002	-.0001
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0005	.0446	.0651	.0161	.0001	F.0044	-.0313	.0003	.0005
Stddev	.0002	.0095	.0177	.0244	.0001	.0015	.0079	.0001	.0006
%RSD	45.07	21.40	27.14	151.0	45.21	34.31	25.12	51.70	131.9
#1	-.0007	.0542	.0837	.0301	.0001	.0059	-.0352	.0002	-.0002
#2	-.0003	.0446	.0631	-.0120	.0001	.0043	-.0365	.0002	.0008
#3	-.0006	.0351	.0486	.0303	.0001	.0029	-.0223	.0004	.0009
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit						.0010			
Low Limit						-.0010			

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0001	F.0022	-.0010	.0005	.0001	.0010	.0010	.0001	.0001
Stddev	.0004	.0016	.0001	.0001	.0000	.0001	.0003	.0003	.0001
%RSD	409.1	72.66	12.48	19.27	25.45	14.44	26.52	447.8	39.87
#1	.0004	.0033	-.0009	.0006	.0001	.0011	.0011	.0003	.0002
#2	-.0003	.0004	-.0011	.0004	.0001	.0009	.0011	.0000	.0002
#3	-.0004	.0030	-.0011	.0005	.0001	.0009	.0007	-.0002	.0001
Check ?	Chk Pass	Chk Fail	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit		.0020							
Low Limit		-.0020							

Zoom In
Zoom Out

Sample Name: CCB Acquired: 4/3/2015 18:21:26 Type: QC
Method: 60102007_041712(v214) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2924.2	7198.4	42888.	2880.5
Stddev	4.2	3.3	125.	14.3
%RSD	.14202	.04611	.29160	.49517
#1	2920.1	7196.1	42927.	2864.2
#2	2924.0	7197.0	42748.	2886.4
#3	2928.4	7202.2	42988.	2890.8

Element, Wavelength and Order	Use?	# IECs	IEC	k1	k2	Calc-in-fit?
Ag 328.068 {103}	X	3	V	-0.009834	0.000000	No
			Fe	0.000002	0.000000	No
			Mg	0.000000	0.000000	No
Al 396.152 { 85}	X	1	Mo	0.035224	0.000000	No
As 189.042 {478}	X	5	Fe	-0.000077	0.000000	No
			Cr	-0.000226	0.000000	No
			Mo	-0.000017	0.000000	No
			Al	0.000004	0.000000	No
			Ca	0.000002	0.000000	No
Ba 455.403 { 74}	X	1	Fe	0.000004	0.000000	No
Be 313.042 {108}	X	2	V	0.000115	0.000000	No
			Ti	-0.000059	0.000000	No
Ca 317.933 {106}	X	None				
Cd 226.502 {449}	X	4	Fe	0.000089	0.000000	No
			Ca	0.000001	0.000000	No
			Al	-0.000001	0.000000	No
			Ti	0.000151	0.000000	No
Co 228.616 {447}	X	3	Mo	-0.001220	0.000000	No
			Ti	0.003012	0.000000	No
			Fe	0.000004	0.000000	No
Cr 267.716 {126}	X	3	Al	0.000001	0.000000	No
			Fe	0.000001	0.000000	No
			Ca	0.000002	0.000000	No
Cu 324.754 {104}	X	10	Fe	-0.000183	0.000000	No
			Ca	0.000002	0.000000	No
			Mo	0.000528	0.000000	No
			Sn	-0.000012	0.000000	No
			V	-0.000158	0.000000	No
			Ti	-0.000251	0.000000	No
			Al	0.000008	0.000000	No
			Mg	0.000005	0.000000	No
			Co	-0.000787	0.000000	No
			Cd	0.000240	0.000000	No
Fe 259.940 {130}	X	None				
In 230.606 {446}*	X	None				
K 766.490 { 44}	X	None				
Mg 279.079 {121}	X	None				
Mn 257.610 {131}	X	2	Fe	0.000008	0.000000	No
			Mg	0.000000	0.000000	No
Mo 202.030 {467}	X	1	Fe	-0.000019	0.000000	No
Na 589.592 { 57}	X	None				
Ni 231.604 {445}	X	7	Fe	-0.000032	0.000000	No
			Co	-0.000054	0.000000	No
			Mo	0.000005	0.000000	No
			Sb	-0.000120	0.000000	No
			Al	0.000003	0.000000	No
			Be	-0.000269	0.000000	No
			Tl	0.000440	0.000000	No
Pb 220.353 {453}	X	9	Al	0.000249	0.000000	No
			Fe	0.000015	0.000000	No
			Mo	-0.001012	0.000000	No
			Cu	0.001070	0.000000	No
			Ti	0.000036	0.000000	No
			Si	0.000071	0.000000	No
			Ca	0.000003	0.000000	No
			Cr	0.000050	0.000000	No
			Mg	0.000000	0.000000	No

Element, Wavelength and Order	Use?	# IECs	IEC	k1	k2	Calc-in-fit?
Sb 206.833 {463}	X	10	Fe	0.000059	0.000000	No
			Cr	0.012140	0.000000	No
			Mo	-0.004076	0.000000	No
			V	-0.000611	0.000000	No
			Sn	-0.010736	0.000000	No
			Ti	0.000040	0.000000	No
			Ca	-0.000001	0.000000	No
			Ni	-0.000438	0.000000	No
			Mg	0.000000	0.000000	No
			Al	-0.000002	0.000000	No
Se 196.090 {472}	X	10	Fe	-0.000015	0.000000	No
			Ca	-0.000000	0.000000	No
			Mn	0.000574	0.000000	No
			Mo	0.000111	0.000000	No
			Al	-0.000034	0.000000	No
			V	0.000000	0.000000	No
			Zn	0.000000	0.000000	No
			Sr	0.000137	0.000000	No
			As	-0.000032	0.000000	No
			Be	0.000212	0.000000	No
Si 212.412 {459}	X	1	Mo	0.019120	0.000000	No
Sn 189.989 {477}	X	None				
Sr 407.771 { 83}	X	1	Ca	0.000017	0.000000	No
Ti 334.941 {101}	X	1	Ca	-0.000008	0.000000	No
Tl 190.856 {477}	X	11	Co	0.001145	0.000000	No
			Fe	0.000007	0.000000	No
			Al	-0.000011	0.000000	No
			Ba	-0.000051	0.000000	No
			Ti	-0.002651	0.000000	No
			Sb	0.000012	0.000000	No
			Ca	0.000003	0.000000	No
			Cr	0.000230	0.000000	No
			Mg	-0.000003	0.000000	No
			Mn	0.000818	0.000000	No
			V	-0.038621	0.000000	No
V 292.402 {115}	X	5	Fe	0.000015	0.000000	No
			Cr	-0.002590	0.000000	No
			Mo	-0.005797	0.000000	No
			Ti	0.000364	0.000000	No
			Mn	-0.000693	0.000000	No
Y 224.306 {450}*	X	None				
Y 360.073 { 94}*	X	None				
Y 371.030 { 91}*	X	None				
Zn 206.200 {463}	X	5	Cr	-0.000965	0.000000	No
			Al	0.000016	0.000000	No
			Ca	0.000003	0.000000	No
			Fe	-0.000026	0.000000	No
			As	0.001128	0.000000	No

	Element, Wavelength and Order	Date of Fit	Date of Cal.	Type of Fit	Weighting	A0	A1	A2	n (Exponent)
	Ag 328.068 {103}	4/3/2015 7:55:14	4/3/2015 7:29:31	Linear	1/Conc	0.000374	0.581037	0.000000	1.000000
	Al 396.152 { 85}	4/3/2015 7:55:14	4/3/2015 7:29:31	Linear	1/Conc	0.002523	0.183933	0.000000	1.000000
	As 189.042 {478}	4/3/2015 7:55:14	4/3/2015 7:29:31	Linear	1/Conc	-0.000244	0.200990	0.000000	1.000000
	Ba 455.403 { 74}	4/3/2015 7:55:14	4/3/2015 7:29:31	Linear	1/Conc	0.008163	10.944271	0.000000	1.000000
	Be 313.042 {108}	4/3/2015 7:55:14	4/3/2015 7:29:31	Linear	1/Conc	-0.001028	8.103714	0.000000	1.000000
	Ca 317.933 {106}	4/3/2015 7:55:14	4/3/2015 7:29:31	Linear	1/Conc	0.005779	0.250918	0.000000	1.000000
	Cd 226.502 {449}	4/3/2015 7:55:14	4/3/2015 7:29:31	Linear	1/Conc	-0.000573	4.992646	0.000000	1.000000
	Co 228.616 {447}	4/3/2015 7:55:14	4/3/2015 7:29:31	Linear	1/Conc	0.000201	2.366076	0.000000	1.000000
	Cr 267.716 {126}	4/3/2015 7:55:14	4/3/2015 7:29:31	Linear	1/Conc	0.000023	0.515743	0.000000	1.000000
	Cu 324.754 {104}	4/3/2015 7:55:14	4/3/2015 7:29:31	Linear	1/Conc	0.003074	0.794456	0.000000	1.000000
	Fe 259.940 {130}	4/3/2015 7:55:14	4/3/2015 7:29:31	Linear	1/Conc	0.002341	0.117831	0.000000	1.000000
	In 230.606 {446}*	4/3/2015 7:55:14	5/5/2010 12:30:54	Linear	1/Conc	0.000000	0.000000	0.000000	1.000000
	K 766.490 { 44}	4/3/2015 7:55:14	4/3/2015 7:29:31	Linear	1/Conc	-0.000478	0.167574	0.000000	1.000000
	Mg 279.079 {121}	4/3/2015 7:55:14	4/3/2015 7:29:31	Linear	1/Conc	-0.000227	0.021336	0.000000	1.000000
	Mn 257.610 {131}	4/3/2015 7:55:14	4/3/2015 7:29:31	Linear	1/Conc	0.000190	2.911578	0.000000	1.000000
	Mo 202.030 {467}	4/3/2015 7:55:14	4/3/2015 7:29:31	Linear	1/Conc	0.001890	1.202604	0.000000	1.000000
	Na 589.592 { 57}	4/3/2015 7:55:14	4/3/2015 7:29:31	Linear	1/Conc	0.021442	0.545615	0.000000	1.000000
	Ni 231.604 {445}	4/3/2015 7:55:14	4/3/2015 7:29:31	Linear	1/Conc	-0.000094	1.349395	0.000000	1.000000
	Pb 220.353 {453}	4/3/2015 7:55:14	4/3/2015 7:29:31	Linear	1/Conc	-0.003042	1.226033	0.000000	1.000000
	Sb 206.833 {463}	4/3/2015 7:55:14	4/3/2015 7:29:31	Linear	1/Conc	0.001132	0.244365	0.000000	1.000000
	Se 196.090 {472}	4/3/2015 7:55:14	4/3/2015 7:29:31	Linear	1/Conc	-0.000591	0.145671	0.000000	1.000000
	Si 212.412 {459}	4/3/2015 7:55:14	4/3/2015 7:29:31	Linear	1/Conc	0.008300	0.356538	0.000000	1.000000
	Sn 189.989 {477}	4/3/2015 7:55:14	4/3/2015 7:29:31	Linear	1/Conc	0.000426	0.449880	0.000000	1.000000
	Sr 407.771 { 83}	4/3/2015 7:55:14	4/3/2015 7:29:31	Linear	1/Conc	-0.000852	18.566606	0.000000	1.000000
	Ti 334.941 {101}	4/3/2015 7:55:14	4/3/2015 7:29:31	Linear	1/Conc	0.002564	1.917646	0.000000	1.000000
	Tl 190.856 {477}	4/3/2015 7:55:14	4/3/2015 7:29:31	Linear	1/Conc	-0.003604	0.621713	0.000000	1.000000
	V 292.402 {115}	4/3/2015 7:55:14	4/3/2015 7:29:31	Linear	1/Conc	-0.000184	0.690473	0.000000	1.000000
	Y 224.306 {450}*	<not fit>	<Never Calibrated>	Linear	1/Conc	0.000000	0.000000	0.000000	1.000000
	Y 360.073 { 94}*	<not fit>	<Never Calibrated>	Linear	1/Conc	0.000000	0.000000	0.000000	1.000000
	Y 371.030 { 91}*	<not fit>	<Never Calibrated>	Linear	1/Conc	0.000000	0.000000	0.000000	1.000000
	Zn 206.200 {463}	4/3/2015 7:55:14	4/3/2015 7:29:31	Linear	1/Conc	0.001834	3.025602	0.000000	1.000000

Element, Wavelength and Order	Correlation	Std Error of Est	Predicted MDL	Predicted MQL	Status	Reslope		QC Norm	
						Slope	Y-int	Slope factor	Offset
Ag 328.068 {103}	0.999990	0.000024	0.000427	0.001423	OK.	1.000000	0.000000	1	0
Al 396.152 { 85}	0.999906	0.004065	0.012001	0.040004	OK.	1.000000	0.000000	1	0
As 189.042 {478}	0.999984	0.000092	0.000691	0.002302	OK.	1.000000	0.000000	1	0
Ba 455.403 { 74}	0.999975	0.006199	0.000280	0.000932	OK.	1.000000	0.000000	1	0
Be 313.042 {108}	0.999955	0.006223	0.000102	0.000340	OK.	1.000000	0.000000	1	0
Ca 317.933 {106}	0.999923	0.005019	0.004021	0.013402	OK.	1.000000	0.000000	1	0
Cd 226.502 {449}	0.999949	0.004070	0.000043	0.000144	OK.	1.000000	0.000000	1	0
Co 228.616 {447}	0.999946	0.001987	0.000098	0.000326	OK.	1.000000	0.000000	1	0
Cr 267.716 {126}	0.999972	0.000310	0.000291	0.000970	OK.	1.000000	0.000000	1	0
Cu 324.754 {104}	0.999991	0.000269	0.000280	0.000932	OK.	1.000000	0.000000	1	0
Fe 259.940 {130}	0.999863	0.003140	0.003992	0.013307	OK.	1.000000	0.000000	1	0
In 230.606 {446}*	0.000000	0.000000	-1.000000	-1.000000	Warnin	1.000000	0.000000	1	0
K 766.490 { 44}	0.999864	0.004445	0.028091	0.093637	OK.	1.000000	0.000000	1	0
Mg 279.079 {121}	0.999932	0.000402	0.028165	0.093883	OK.	1.000000	0.000000	1	0
Mn 257.610 {131}	0.999738	0.005368	0.000045	0.000150	OK.	1.000000	0.000000	1	0
Mo 202.030 {467}	0.999962	0.000847	0.000121	0.000402	OK.	1.000000	0.000000	1	0
Na 589.592 { 57}	0.999887	0.013215	0.008666	0.028886	OK.	1.000000	0.000000	1	0
Ni 231.604 {445}	0.999899	0.001542	0.000168	0.000559	OK.	1.000000	0.000000	1	0
Pb 220.353 {453}	0.999906	0.001358	0.000469	0.001563	OK.	1.000000	0.000000	1	0
Sb 206.833 {463}	0.999996	0.000058	0.000929	0.003096	OK.	1.000000	0.000000	1	0
Se 196.090 {472}	0.999990	0.000052	0.001466	0.004886	OK.	1.000000	0.000000	1	0
Si 212.412 {459}	0.983064	0.005455	0.000455	0.001516	OK.	1.000000	0.000000	1	0
Sn 189.989 {477}	0.999751	0.000809	0.000260	0.000866	OK.	1.000000	0.000000	1	0
Sr 407.771 { 83}	0.999957	0.013873	0.000101	0.000338	OK.	1.000000	0.000000	1	0
Ti 334.941 {101}	0.999835	0.002803	0.000120	0.000399	OK.	1.000000	0.000000	1	0
Tl 190.856 {477}	0.999974	0.000349	0.000597	0.001991	OK.	1.000000	0.000000	1	0
V 292.402 {115}	0.999960	0.000496	0.000277	0.000924	OK.	1.000000	0.000000	1	0
Y 224.306 {450}*	0.000000	0.000000	-1.000000	-1.000000	Warnin	1.000000	0.000000	1	0
Y 360.073 { 94}*	0.000000	0.000000	-1.000000	-1.000000	Warnin	1.000000	0.000000	1	0
Y 371.030 { 91}*	0.000000	0.000000	-1.000000	-1.000000	Warnin	1.000000	0.000000	1	0
Zn 206.200 {463}	0.999946	0.002524	0.000052	0.000173	OK.	1.000000	0.000000	1	0

Zoom In
Zoom Out

Sample Name: Blank Acquired: 4/6/2015 9:31:27 Type: Cal
Method: 60102007_041712(v217) Mode: IR Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.0002	.0025	-.0002	.0112	-.0004	.0079	.0002	.0006	.0002
Stddev	.0001	.0026	.0001	.0035	.0003	.0005	.0001	.0001	.0001
%RSD	23.34	103.7	26.81	31.25	73.74	6.087	54.70	20.23	72.88
#1	.0003	-.0004	-.0002	.0103	-.0001	.0074	.0003	.0007	.0002
#2	.0003	.0032	-.0003	.0082	-.0006	.0078	.0003	.0006	.0001
#3	.0002	.0047	-.0002	.0150	-.0003	.0084	.0001	.0005	.0003

Elem	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.0037	.0032	-.0074	.0001	.0006	.0027	-.0087	.0001	.0000
Stddev	.0001	.0003	.0033	.0002	.0001	.0003	.0008	.0001	.0009
%RSD	3.987	9.504	44.02	135.0	20.14	12.84	9.139	139.8	2313.
#1	.0039	.0030	-.0084	.0000	.0007	.0031	-.0083	.0001	-.0002
#2	.0036	.0035	-.0100	.0001	.0006	.0027	-.0082	.0001	.0011
#3	.0036	.0030	-.0037	.0003	.0004	.0024	-.0096	.0000	-.0008

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.0009	-.0004	.0078	.0006	.0023	.0026	-.0032	-.0002	.0034
Stddev	.0001	.0002	.0003	.0000	.0016	.0001	.0003	.0001	.0003
%RSD	12.48	39.53	3.602	4.525	68.97	2.532	9.193	43.37	8.537
#1	.0008	-.0002	.0077	.0006	.0014	.0026	-.0029	-.0002	.0036
#2	.0010	-.0004	.0081	.0006	.0014	.0026	-.0034	-.0003	.0035
#3	.0008	-.0006	.0076	.0006	.0042	.0025	-.0032	-.0001	.0031

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3147.4	7644.2	46541.	4007.3
Stddev	1.1	4.6	147.	14.7
%RSD	.03581	.06065	.31663	.36637
#1	3146.8	7644.6	46531.	4002.3
#2	3148.7	7648.6	46694.	4023.8
#3	3146.7	7639.3	46400.	3995.8

Zoom In
Zoom Out

Sample Name: LowStd Acquired: 4/6/2015 9:36:00 Type: Cal
Method: 60102007_041712(v217) Mode: IR Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.0345	1.796	.1026	5.490	4.144	2.605	2.641	1.253	.2629	.4078
Stddev	.0001	.010	.0002	.011	.008	.009	.004	.002	.0003	.0013
%RSD	.1656	.5434	.2272	.1924	.1855	.3281	.1487	.1521	.1117	.3266
#1	.0345	1.789	.1024	5.492	4.137	2.599	2.637	1.252	.2631	.4092
#2	.0344	1.792	.1026	5.479	4.143	2.601	2.641	1.253	.2625	.4065
#3	.0344	1.808	.1029	5.500	4.152	2.615	2.645	1.255	.2630	.4076

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1.229	1.572	.2235	1.495	.6323	5.305	.7145	.6196	.1266	.0754
Stddev	.006	.010	.0004	.005	.0015	.013	.0009	.0006	.0001	.0003
%RSD	.4705	.6321	.2004	.3493	.2402	.2516	.1211	.1004	.0688	.4501
#1	1.229	1.561	.2231	1.496	.6305	5.293	.7135	.6191	.1265	.0751
#2	1.223	1.575	.2240	1.490	.6332	5.302	.7151	.6194	.1266	.0754
#3	1.235	1.580	.2234	1.500	.6332	5.320	.7149	.6203	.1267	.0758

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.3163	.2516	9.713	.9835	.2989	.3602	1.604
Stddev	.0005	.0004	.032	.0032	.0010	.0010	.002
%RSD	.1720	.1785	.3308	.3246	.3503	.2793	.1507
#1	.3157	.2511	9.701	.9834	.2983	.3609	1.602
#2	.3168	.2520	9.688	.9804	.3001	.3591	1.603
#3	.3164	.2517	9.749	.9868	.2983	.3607	1.607

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2918.3	7574.4	46396.	4052.3
Stddev	4.9	20.5	87.	26.8
%RSD	.16667	.27026	.18785	.66166
#1	2921.0	7594.5	46309.	4083.1
#2	2921.2	7575.2	46484.	4034.8
#3	2912.7	7553.6	46395.	4038.8

Zoom In
Zoom Out

Sample Name: MidStd Acquired: 4/6/2015 9:39:10 Type: Cal
Method: 60102007_041712(v217) Mode: IR Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.1323	7.296	.4047	21.65	16.14	10.45	10.20	4.794	1.027	1.578
Stddev	.0005	.030	.0006	.13	.06	.04	.01	.001	.002	.005
%RSD	.3794	.4140	.1395	.6088	.3626	.3899	.0614	.0241	.1643	.3085
#1	.1318	7.316	.4041	21.80	16.19	10.47	10.20	4.794	1.026	1.580
#2	.1327	7.262	.4052	21.56	16.08	10.40	10.19	4.793	1.026	1.573
#3	.1325	7.311	.4048	21.59	16.15	10.47	10.20	4.796	1.029	1.582

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5.039	6.444	.9054	5.814	2.409	21.53	2.729	2.488	.4901	.2960
Stddev	.016	.020	.0044	.011	.008	.09	.002	.005	.0004	.0003
%RSD	.3197	.3171	.4869	.1870	.3416	.4154	.0699	.2025	.0911	.1115
#1	5.051	6.453	.9057	5.803	2.401	21.61	2.730	2.492	.4896	.2964
#2	5.021	6.420	.9008	5.815	2.410	21.43	2.729	2.483	.4902	.2958
#3	5.046	6.458	.9096	5.825	2.417	21.54	2.726	2.490	.4905	.2959

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.8713	.9316	36.82	3.806	1.184	1.377	6.165
Stddev	.0004	.0021	.18	.002	.004	.001	.007
%RSD	.0450	.2204	.4928	.0427	.3366	.0694	.1221
#1	.8716	.9336	37.00	3.804	1.186	1.377	6.174
#2	.8708	.9317	36.63	3.805	1.179	1.376	6.164
#3	.8713	.9295	36.83	3.807	1.187	1.378	6.159

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2630.0	7274.3	43952.	3962.1
Stddev	6.4	13.0	128.	22.4
%RSD	.24499	.17871	.29195	.56568
#1	2622.8	7260.2	44071.	3967.0
#2	2635.3	7276.8	43968.	3981.7
#3	2631.8	7285.8	43816.	3937.7

Zoom In
Zoom Out

Sample Name: HighStd Acquired: 4/6/2015 9:42:20 Type: Cal
Method: 60102007_041712(v217) Mode: IR Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.2686	14.86	.8286	44.11	32.45	21.04	20.45	9.637	2.075	3.213
Stddev	.0007	.09	.0022	.25	.15	.10	.04	.016	.001	.003
%RSD	.2479	.5876	.2711	.5741	.4518	.4900	.1786	.1704	.0542	.1046
#1	.2681	14.96	.8262	44.40	32.62	21.15	20.43	9.625	2.074	3.210
#2	.2684	14.79	.8289	43.94	32.35	20.95	20.42	9.631	2.074	3.213
#3	.2693	14.83	.8307	43.98	32.39	21.01	20.49	9.656	2.076	3.216

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	10.01	13.11	1.821	11.59	4.847	43.61	5.469	5.160	1.005	.6034
Stddev	.06	.06	.006	.01	.015	.22	.011	.015	.003	.0004
%RSD	.5722	.4658	.3096	.0998	.3035	.4977	.2006	.2944	.2592	.0603
#1	10.07	13.18	1.827	11.59	4.834	43.86	5.460	5.157	1.003	.6030
#2	9.960	13.09	1.817	11.58	4.845	43.48	5.467	5.146	1.005	.6033
#3	10.00	13.06	1.818	11.60	4.863	43.48	5.481	5.176	1.008	.6037

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1.367	1.833	74.13	7.575	2.403	2.773	12.39
Stddev	.003	.004	.37	.053	.009	.004	.02
%RSD	.2075	.2274	.4944	.6967	.3618	.1613	.1999
#1	1.364	1.830	74.55	7.521	2.403	2.773	12.38
#2	1.366	1.831	73.89	7.579	2.395	2.769	12.38
#3	1.370	1.838	73.96	7.626	2.412	2.778	12.42

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2420.9	6947.4	42320.	3890.2
Stddev	8.9	19.0	95.	19.7
%RSD	.36864	.27349	.22416	.50601
#1	2423.2	6962.3	42382.	3868.2
#2	2428.5	6953.8	42368.	3906.1
#3	2411.1	6926.0	42211.	3896.4

Zoom In Zoom Out

Sample Name: HSTD Acquired: 4/6/2015 9:45:58 Type: QC
Method: 60102007_041712(v217) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4992	80.07	4.014	3.988	3.968	79.63	3.976	3.978	3.962	3.992
Stddev	.0022	.39	.001	.017	.023	.35	.009	.007	.005	.012
%RSD	.4433	.4846	.0306	.4179	.5694	.4443	.2296	.1858	.1158	.2983
#1	.4978	80.51	4.016	4.005	3.993	80.03	3.972	3.973	3.958	3.978
#2	.5017	79.78	4.014	3.972	3.951	79.35	3.970	3.974	3.967	4.000
#3	.4980	79.93	4.014	3.987	3.959	79.52	3.987	3.986	3.962	3.997
Check ?	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass
Value										
Range										

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	79.35	80.02	79.85	3.922	3.988	79.42	3.970	4.036	4.018	4.005
Stddev	.26	.42	.40	.006	.005	.29	.002	.016	.005	.003
%RSD	.3310	.5279	.5022	.1601	.1326	.3680	.0448	.3864	.1350	.0699
#1	79.64	80.46	80.25	3.916	3.984	79.76	3.968	4.023	4.012	4.005
#2	79.13	79.61	79.44	3.922	3.985	79.23	3.969	4.031	4.019	4.003
#3	79.27	79.99	79.87	3.928	3.994	79.27	3.972	4.053	4.023	4.008
Check ?	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass
Value										
Range										

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	3.472	3.944	3.963	3.946	3.995	3.967	3.973
Stddev	.004	.001	.023	.021	.014	.001	.007
%RSD	.1231	.0330	.5879	.5252	.3464	.0195	.1769
#1	3.467	3.945	3.990	3.928	3.983	3.966	3.970
#2	3.473	3.943	3.945	3.968	3.992	3.968	3.969
#3	3.476	3.945	3.956	3.941	4.010	3.968	3.982
Check ?	None	Chk	Pass	Chk	Pass	Chk	Pass
Value							
Range							

Zoom In Zoom Out

Sample Name: HSTD Acquired: 4/6/2015 9:45:58 Type: QC
Method: 60102007_041712(v217) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2430.9	6971.9	42724.	3913.7
Stddev	6.9	10.3	49.	11.1
%RSD	.28265	.14774	.11523	.28424
#1	2437.0	6977.1	42765.	3926.0
#2	2432.4	6978.5	42738.	3904.3
#3	2423.5	6960.0	42669.	3910.8

Zoom In Zoom Out

Sample Name: ICV Acquired: 4/6/2015 9:51:29 Type: QC
Method: 60102007_041712(v217) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2548	42.60	2.054	2.151	2.090	43.58	2.031	2.067	2.065	2.040
Stddev	.0002	.05	.003	.005	.003	.05	.004	.003	.003	.002
%RSD	.0718	.1152	.1353	.2122	.1237	.1229	.1701	.1475	.1433	.1032
#1	.2550	42.60	2.056	2.153	2.093	43.63	2.032	2.068	2.063	2.042
#2	.2549	42.64	2.051	2.154	2.090	43.60	2.027	2.063	2.069	2.038
#3	.2546	42.54	2.054	2.145	2.088	43.52	2.033	2.069	2.064	2.041
Check ?	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass
Value										
Range										

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	42.53	42.53	41.99	2.083	1.984	42.81	2.098	2.037	2.054	2.056
Stddev	.06	.08	.09	.007	.004	.07	.002	.005	.004	.002
%RSD	.1298	.1847	.2140	.3243	.2074	.1524	.0959	.2653	.2088	.0724
#1	42.55	42.60	42.01	2.081	1.980	42.84	2.098	2.042	2.059	2.057
#2	42.57	42.44	42.08	2.090	1.983	42.85	2.096	2.032	2.051	2.054
#3	42.47	42.55	41.90	2.077	1.988	42.73	2.100	2.036	2.053	2.057
Check ?	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass
Value										
Range										

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4099	2.085	2.035	2.049	2.102	1.982	2.076
Stddev	.0013	.003	.003	.004	.005	.002	.003
%RSD	.3142	.1220	.1566	.1819	.2570	.0835	.1549
#1	.4110	2.085	2.037	2.049	2.108	1.981	2.077
#2	.4085	2.083	2.036	2.052	2.098	1.984	2.072
#3	.4101	2.088	2.031	2.045	2.101	1.982	2.078
Check ?	None	Chk	Pass	Chk	Pass	Chk	Pass
Value							
Range							

Zoom In Zoom Out

Sample Name: ICV Acquired: 4/6/2015 9:51:29 Type: QC
Method: 60102007_041712(v217) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2583.5	7150.3	42769.	3902.7
Stddev	3.5	7.0	149.	9.4
%RSD	.13554	.09819	.34925	.24183
#1	2579.4	7148.2	42864.	3913.4
#2	2585.9	7158.1	42597.	3899.5
#3	2585.0	7144.5	42847.	3895.4

Zoom In Zoom Out

Sample Name: ICB Acquired: 4/6/2015 9:57:20 Type: QC
Method: 60102007_041712(v217) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0001	-.0087	-.0009	-.0004	.0000	-.0027	-.0002	-.0002	-.0003	-.0004
Stddev	.0002	.0066	.0003	.0002	.000	.0047	.0001	.0001	.0003	.0002
%RSD	285.4	75.72	38.11	37.36	573.3	175.6	32.85	48.54	118.6	43.07
#1	-.0002	-.0115	-.0012	-.0004	-.0001	.0025	-.0001	-.0003	-.0005	-.0004
#2	-.0002	-.0134	-.0007	-.0006	.0001	-.0039	-.0002	-.0001	-.0003	-.0003
#3	.0001	-.0012	-.0006	-.0003	.0000	-.0066	-.0002	-.0003	.0001	-.0006
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0001	.0261	-.0250	-.0001	.0008	.0071	-.0003	.0003	-.0001	-.0014
Stddev	.0014	.0203	.0141	.0000	.0004	.0037	.0001	.0002	.0004	.0009
%RSD	2543.	77.98	56.50	18.76	56.88	52.07	51.53	74.75	350.5	65.67
#1	-.0005	.0240	-.0088	-.0001	.0012	.0056	-.0005	.0004	-.0002	-.0024
#2	.0015	.0068	-.0346	-.0001	.0007	.0113	-.0002	.0004	-.0004	-.0007
#3	-.0013	.0473	-.0316	-.0001	.0003	.0044	-.0002	.0000	.0003	-.0011
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0002	.0001	.0000	.0003	-.0003	-.0003	-.0003
Stddev	.0002	.0001	.000	.0001	.0005	.0000	.0000
%RSD	122.8	178.5	189.2	32.46	153.4	7.862	5.011
#1	.0004	.0002	-.0001	.0004	-.0008	-.0003	-.0003
#2	.0003	.0001	-.0001	.0003	.0001	-.0003	-.0003
#3	-.0001	-.0001	.0000	.0002	-.0003	-.0003	-.0003
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Zoom In Zoom Out

Sample Name: ICB Acquired: 4/6/2015 9:57:20 Type: QC
Method: 60102007_041712(v217) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3108.3	7504.6	46652.	4033.7
Stddev	10.1	19.9	190.	30.1
%RSD	.32584	.26459	.40697	.74577
#1	3118.0	7517.7	46489.	4045.2
#2	3109.3	7514.2	46861.	3999.5
#3	3097.8	7481.7	46607.	4056.3

Zoom In Zoom Out

Sample Name: CRIA Acquired: 4/6/2015 10:01:38 Type: QC
Method: 60102007_041712(v217) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0103	.2093	.0103	.2107	.0053	1.076	.0052	.0552	.0103	.0270
Stddev	.0001	.0115	.0006	.0011	.0001	.004	.0000	.0002	.0001	.0001
%RSD	1.102	5.473	5.399	.5002	1.373	.3769	.5532	.3661	1.029	.3289
#1	.0105	.2135	.0106	.2119	.0052	1.073	.0052	.0551	.0104	.0269
#2	.0103	.1963	.0096	.2098	.0053	1.081	.0052	.0554	.0102	.0271
#3	.0102	.2180	.0106	.2104	.0053	1.074	.0052	.0550	.0104	.0269
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value										
Range										

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.3128	10.54	5.329	.0161	.0505	10.57	.0444	.0054	.0048	.0091
Stddev	.0065	.02	.031	.0001	.0002	.03	.0002	.0004	.0008	.0015
%RSD	2.087	.1828	.5880	.8144	.4034	.2597	.3587	6.790	17.19	16.58
#1	.3192	10.55	5.365	.0161	.0507	10.60	.0445	.0052	.0056	.0091
#2	.3062	10.52	5.310	.0162	.0506	10.56	.0444	.0058	.0039	.0106
#3	.3130	10.55	5.312	.0160	.0503	10.54	.0442	.0051	.0048	.0076
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value										
Range										

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0452	.0552	.0103	.0102	.0096	.0506	.0221
Stddev	.0001	.0001	.0001	.0001	.0008	.0002	.0001
%RSD	.3100	.1241	.4873	1.063	8.571	.3551	.2826
#1	.0452	.0552	.0103	.0102	.0102	.0507	.0221
#2	.0454	.0553	.0104	.0103	.0087	.0508	.0222
#3	.0451	.0553	.0103	.0101	.0100	.0504	.0221
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Zoom In Zoom Out

Sample Name: CRIA Acquired: 4/6/2015 10:01:38 Type: QC
Method: 60102007_041712(v217) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2924.7	7379.9	45016.	3976.8
Stddev	4.8	6.9	186.	11.1
%RSD	.16464	.09343	.41324	.27890
#1	2929.6	7387.8	45121.	3979.6
#2	2924.5	7375.1	44801.	3964.6
#3	2920.0	7376.8	45125.	3986.2

Zoom In Zoom Out

Sample Name: ICSA Acquired: 4/6/2015 10:08:18 Type: QC
Method: 60102007_041712(v218) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0005	509.0	-.0016	.0001	.0000	477.5	.0006	-.0005	.0004	-.0006
Stddev	.0006	.8	.0010	.0001	.000	.3	.0001	.0001	.0001	.0003
%RSD	117.7	.1476	60.56	197.5	314.4	.0613	8.297	18.84	34.17	47.10
#1	.0000	509.6	-.0009	.0000	-.0001	477.8	.0006	-.0005	.0003	-.0003
#2	.0004	509.2	-.0012	.0000	-.0001	477.3	.0006	-.0004	.0005	-.0006
#3	.0012	508.1	-.0027	.0002	.0001	477.3	.0007	-.0005	.0003	-.0009
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	185.5	.0271	492.8	-.0001	.0000	.1730	.0004	.0002	-.0002	.0012
Stddev	.2	.0141	.9	.0000	.000	.0061	.0004	.0013	.0008	.0049
%RSD	.1206	51.98	.1781	32.52	229.8	3.540	116.9	523.4	442.9	418.7
#1	185.2	.0187	492.2	-.0001	.0000	.1665	.0003	-.0012	-.0004	-.0042
#2	185.6	.0192	492.5	-.0001	-.0001	.1787	.0008	.0007	-.0008	.0055
#3	185.6	.0433	493.8	-.0001	.0000	.1736	.0000	.0013	.0007	.0022
Check ?	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0475	.0001	-.0001	.0004	-.0013	-.0002	-.0023
Stddev	.0006	.0002	.0002	.0001	.0011	.0003	.0000
%RSD	1.208	144.9	110.7	19.02	82.77	150.2	1.106
#1	.0477	-.0001	-.0001	.0005	-.0001	.0000	-.0023
#2	.0468	.0002	.0000	.0003	-.0017	-.0006	-.0023
#3	.0479	.0001	-.0003	.0004	-.0021	.0000	-.0023
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Zoom In Zoom Out

Sample Name: ICSA Acquired: 4/6/2015 10:08:18 Type: QC
Method: 60102007_041712(v218) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2291.3	6627.0	39405.	3862.3
Stddev	3.1	1.3	64.	2.2
%RSD	.13565	.01949	.16224	.05567
#1	2291.9	6628.5	39402.	3860.2
#2	2294.1	6626.7	39343.	3864.5
#3	2288.0	6626.0	39471.	3862.2

Zoom In Zoom Out

Sample Name: ICSAB Acquired: 4/6/2015 10:13:17 Type: QC
Method: 60102007_041712(v218) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.9764	494.7	1.071	.5187	.5187	479.4	.9387	.4826	.4924	.5460
Stddev	.0020	4.1	.002	.0013	.0014	5.0	.0008	.0005	.0016	.0022
%RSD	.2098	.8374	.2004	.2559	.2630	1.034	.0811	.1123	.3239	.3964
#1	.9783	490.8	1.069	.5192	.5197	475.5	.9382	.4823	.4943	.5485
#2	.9742	499.0	1.071	.5172	.5172	477.7	.9385	.4823	.4913	.5446
#3	.9768	494.1	1.073	.5197	.5193	484.9	.9396	.4832	.4918	.5449
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value										
Range										

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	188.7	.0184	493.0	.5041	.9644	.1858	.9742	.9704	1.081	1.042
Stddev	.6	.0107	1.7	.0011	.0019	.0131	.0004	.0037	.003	.003
%RSD	.3274	58.11	.3478	.2162	.1948	7.041	.0433	.3767	.2382	.3106
#1	189.2	.0076	493.9	.5052	.9626	.1756	.9739	.9733	1.078	1.039
#2	188.0	.0186	491.1	.5030	.9642	.1811	.9740	.9663	1.083	1.041
#3	188.9	.0290	494.1	.5040	.9664	.2005	.9747	.9716	1.082	1.045
Check ?	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value										
Range										

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1017	.9740	1.022	1.021	.9679	.4853	.9674
Stddev	.0008	.0010	.003	.002	.0014	.0012	.0011
%RSD	.7961	.1059	.2691	.2078	.1425	.2433	.1155
#1	.1008	.9731	1.025	1.024	.9681	.4861	.9673
#2	.1019	.9736	1.020	1.020	.9692	.4839	.9664
#3	.1024	.9751	1.021	1.020	.9664	.4858	.9686
Check ?	None	Chk Pass	None	None	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Zoom In Zoom Out

Sample Name: ICSAB Acquired: 4/6/2015 10:13:17 Type: QC
Method: 60102007_041712(v218) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2254.8	6558.3	39254.	3825.5
Stddev	4.1	5.5	77.	40.1
%RSD	.18244	.08316	.19499	1.0470
#1	2250.2	6560.1	39228.	3805.2
#2	2258.1	6562.6	39340.	3871.6
#3	2256.1	6552.1	39194.	3799.6

Zoom In Zoom Out

Sample Name: CCV Acquired: 4/6/2015 10:21:25 Type: QC
Method: 60102007_041712(v218) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2521	40.40	2.003	2.020	2.030	40.48	2.017	2.020	2.006	2.013
Stddev	.0017	.15	.001	.007	.007	.14	.001	.001	.007	.008
%RSD	.6650	.3721	.0473	.3527	.3511	.3380	.0590	.0670	.3580	.3761
#1	.2540	40.54	2.002	2.026	2.037	40.63	2.016	2.018	2.014	2.021
#2	.2510	40.24	2.003	2.012	2.023	40.36	2.018	2.021	2.000	2.011
#3	.2513	40.43	2.004	2.023	2.030	40.45	2.016	2.020	2.004	2.006
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value										
Range										

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	41.11	40.21	40.35	2.024	2.025	40.39	2.023	1.976	2.011	2.017
Stddev	.14	.17	.08	.007	.007	.15	.002	.003	.003	.004
%RSD	.3519	.4145	.1910	.3575	.3293	.3631	.0814	.1684	.1255	.1994
#1	41.23	40.36	40.41	2.032	2.017	40.52	2.021	1.973	2.008	2.012
#2	40.95	40.03	40.27	2.021	2.027	40.23	2.025	1.976	2.013	2.020
#3	41.15	40.25	40.39	2.019	2.030	40.41	2.024	1.980	2.011	2.019
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value										
Range										

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.265	2.042	2.024	2.031	2.006	2.014	2.011
Stddev	.001	.002	.006	.008	.006	.007	.001
%RSD	.0394	.1063	.2815	.4019	.2912	.3371	.0330
#1	2.264	2.040	2.030	2.041	1.999	2.022	2.011
#2	2.265	2.044	2.018	2.027	2.009	2.009	2.012
#3	2.266	2.043	2.025	2.027	2.008	2.011	2.012
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Zoom In Zoom Out

Sample Name: CCV Acquired: 4/6/2015 10:21:25 Type: QC
Method: 60102007_041712(v218) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2596.5	7144.5	43492.	3930.5
Stddev	.5	6.6	170.	31.2
%RSD	.01782	.09210	.39022	.79372
#1	2596.1	7138.5	43297.	3896.9
#2	2597.0	7143.6	43599.	3958.6
#3	2596.4	7151.5	43582.	3936.0

Zoom In Zoom Out

Sample Name: CCB Acquired: 4/6/2015 10:31:30 Type: QC
Method: 60102007_041712(v218) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0001	-.0092	.0002	.0001	.0002	.0038	.0002	.0003
Stddev	.0003	.0024	.0002	.0001	.0000	.0024	.0000	.0001
%RSD	354.6	26.15	102.5	92.44	18.32	63.69	26.76	42.79
#1	-.0002	-.0100	.0000	.0000	.0002	.0010	.0002	.0004
#2	.0002	-.0065	.0002	.0002	.0003	.0053	.0002	.0002
#3	-.0003	-.0110	.0004	.0002	.0003	.0051	.0001	.0002
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Cr2677	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0002	.0002	-.0037	-.0093	-.0088	.0001	F-.0010	.0141
Stddev	.0003	.0002	.0040	.0303	.0138	.0000	.0002	.0057
%RSD	141.5	91.93	110.1	326.5	156.0	36.82	14.50	40.47
#1	.0000	.0004	-.0013	-.0441	.0065	.0002	-.0009	.0076
#2	-.0001	.0003	-.0014	.0047	-.0203	.0001	-.0010	.0167
#3	-.0005	.0000	-.0083	.0115	-.0126	.0002	-.0012	.0181
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit							.0010	
Low Limit							-.0010	

Elem	Ni2316	Pb2203	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0001	.0006	-.0001	-.0006	.0029	-.0001	.0001	-.0003
Stddev	.0001	.0000	.0004	.0006	.0002	.0001	.0001	.0000
%RSD	159.1	8.006	319.4	95.03	8.382	107.2	82.59	12.47
#1	-.0001	.0006	-.0005	-.0013	.0026	-.0003	.0000	-.0003
#2	.0002	.0006	.0004	-.0003	.0030	-.0001	.0001	-.0003
#3	.0001	.0005	-.0003	-.0003	.0031	.0000	.0002	-.0003
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Zoom In Zoom Out

Sample Name: CCB Acquired: 4/6/2015 10:31:30 Type: QC
Method: 60102007_041712(v218) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm
Avg	-.0011	-.0001	-.0001
Stddev	.0003	.0003	.0001
%RSD	29.00	263.9	78.63
#1	-.0007	-.0001	-.0001
#2	-.0012	-.0003	.0000
#3	-.0014	.0002	-.0002
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3116.8	7496.7	46579.	4076.1
Stddev	7.3	9.4	311.	20.8
%RSD	.23490	.12602	.66847	.51047
#1	3121.8	7507.4	46560.	4053.8
#2	3108.4	7492.8	46899.	4079.6
#3	3120.3	7489.8	46277.	4095.0

Zoom In
Zoom Out

Sample Name: FA23034-10 Acquired: 4/6/2015 10:37:14 Type: Unk
Method: 60102007_041712(v218) Mode: CONC Corr. Factor: 2.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	.0008	.0026	-.0009	.7519	-.0001	2.740	.0754	.0001	.0019	2.385
Stddev	.0011	.0103	.0005	.0031	.0000	.009	.0003	.0001	.0002	.004
%RSD	133.5	397.5	61.78	.4061	15.08	.3219	.3632	77.64	12.95	.1537
#1	.0014	.0070	-.0005	.7554	-.0001	2.729	.0751	.0001	.0020	2.389
#2	.0015	-.0092	-.0015	.7503	-.0001	2.744	.0756	.0001	.0021	2.382
#3	-.0004	.0100	-.0007	.7499	-.0001	2.746	.0756	.0003	.0016	2.385

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	-.0087	.1356	.1773	.0430	.0375	33.09	.0047	.0006	.0310	-.0040
Stddev	.0032	.0871	.0373	.0000	.0003	.07	.0001	.0004	.0010	.0004
%RSD	36.61	64.26	21.05	.0689	.9175	.2153	1.791	66.73	3.136	9.510
#1	-.0056	.1246	.1411	.0430	.0377	33.15	.0047	.0010	.0299	-.0039
#2	-.0120	.0544	.2156	.0430	.0371	33.01	.0048	.0002	.0314	-.0037
#3	-.0084	.2277	.1752	.0429	.0378	33.10	.0046	.0008	.0317	-.0044

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	.0864	-.0008	.0616	-.0014	-.0020	-.0004	.1634
Stddev	.0006	.0002	.0002	.0001	.0003	.0003	.0003
%RSD	.7356	21.54	.3987	6.416	14.03	69.42	.1625
#1	.0859	-.0006	.0614	-.0013	-.0021	-.0006	.1631
#2	.0862	-.0009	.0618	-.0014	-.0021	-.0001	.1634
#3	.0871	-.0009	.0617	-.0014	-.0016	-.0004	.1636

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	2976.1	7389.0	45547.	4043.8
Stddev	2.6	7.2	338.	7.3
%RSD	.08872	.09725	.74187	.18110
#1	2974.5	7391.0	45182.	4051.3
#2	2974.6	7381.0	45610.	4043.6
#3	2979.1	7394.9	45849.	4036.6

Zoom In
Zoom Out

Sample Name: FA23258-5 Acquired: 4/6/2015 10:41:20 Type: Unk
Method: 60102007_041712(v218) Mode: CONC Corr. Factor: 10.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)
Avg	.0019	99.55	.0185	1.196	.0043	4242.	-.0038	.0316	.0851
Stddev	.0019	.41	.0024	.002	.0008	17.	.0005	.0007	.0030
%RSD	97.86	.4122	13.05	.1416	18.65	.4039	13.00	2.321	3.575
#1	.0037	99.94	.0212	1.194	.0040	4260.	-.0043	.0310	.0848
#2	.0021	99.13	.0180	1.198	.0037	4239.	-.0034	.0324	.0823
#3	.0000	99.58	.0164	1.195	.0052	4226.	-.0036	.0313	.0884

Elem	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
IS Ref	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)
Avg	.0648	86.54	27.26	132.4	1.857	-.0165	26.64	.0689	.0525
Stddev	.0045	.18	.17	.3	.006	.0003	.05	.0010	.0078
%RSD	6.990	.2135	.6374	.2412	.3154	1.624	.1867	1.510	14.87
#1	.0670	86.54	27.14	132.0	1.860	-.0169	26.59	.0677	.0574
#2	.0678	86.36	27.46	132.6	1.860	-.0164	26.67	.0694	.0566
#3	.0596	86.72	27.19	132.5	1.850	-.0164	26.68	.0696	.0435

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	-.0284	-.0433	11.02	.0142	F47.54	2.268	-.0112	.1796	.2300
Stddev	.0102	.0217	.03	.0008	.44	.011	.0052	.0012	.0001
%RSD	35.96	50.05	.2569	5.491	.9169	.4608	46.49	.6923	.0511
#1	-.0396	-.0315	10.98	.0133	47.06	2.274	-.0088	.1810	.2298
#2	-.0197	-.0302	11.04	.0143	47.65	2.274	-.0172	.1791	.2300
#3	-.0258	-.0684	11.03	.0149	47.91	2.256	-.0077	.1787	.2300

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	2562.9	6970.6	43418.	4093.8
Stddev	3.2	2.7	89.	5.4
%RSD	.12312	.03914	.20556	.13232
#1	2561.3	6973.7	43343.	4095.8
#2	2560.8	6968.6	43394.	4097.9
#3	2566.5	6969.5	43517.	4087.7

Zoom In
Zoom Out

Sample Name: MP28752-D1 Acquired: 4/6/2015 10:45:40 Type: Unk
Method: 60102007_041712(v218) Mode: CONC Corr. Factor: 10.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	.0012	88.21	.0053	1.041	.0032	3440.	-.0033	.0263	.0773	.0548
Stddev	.0018	.05	.0048	.004	.0008	21.	.0004	.0004	.0034	.0009
%RSD	147.5	.0533	89.51	.4018	23.41	.6143	12.18	1.395	4.438	1.675
#1	.0010	88.18	.0047	1.044	.0041	3443.	-.0038	.0265	.0767	.0546
#2	.0030	88.26	.0104	1.037	.0026	3459.	-.0031	.0266	.0742	.0540
#3	-.0004	88.18	.0009	1.044	.0030	3417.	-.0032	.0259	.0810	.0558

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	75.38	24.23	115.2	1.624	-.0175	22.68	.0606	.0417	-.0243	-.0228
Stddev	.22	.33	.8	.003	.0013	.04	.0008	.0018	.0109	.0068
%RSD	.2931	1.351	.6898	.1872	7.461	.1729	1.295	4.254	44.86	29.85
#1	75.35	24.61	114.8	1.621	-.0172	22.66	.0614	.0421	-.0363	-.0180
#2	75.17	24.06	116.1	1.627	-.0189	22.67	.0598	.0398	-.0150	-.0306
#3	75.61	24.02	114.6	1.623	-.0164	22.73	.0605	.0433	-.0216	-.0199

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	8.276	.0119	39.98	2.051	-.0113	.1572	.1978
Stddev	.015	.0006	.05	.005	.0009	.0023	.0007
%RSD	.1779	5.381	.1224	.2635	8.335	1.473	.3683
#1	8.260	.0117	39.99	2.045	-.0119	.1596	.1973
#2	8.280	.0127	39.93	2.053	-.0102	.1551	.1975
#3	8.289	.0114	40.02	2.056	-.0117	.1568	.1987

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	2625.8	7058.8	44001.	4120.2
Stddev	3.4	5.8	29.	37.9
%RSD	.12945	.08164	.06484	.92087
#1	2621.9	7056.3	44031.	4117.8
#2	2627.8	7065.4	43974.	4083.6
#3	2627.7	7054.8	43999.	4159.3

Zoom In
Zoom Out

Sample Name: MP28752-S1 Acquired: 4/6/2015 10:49:52 Type: Unk
Method: 60102007_041712(v218) Mode: CONC Corr. Factor: 10.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)
Avg	.0459	133.9	2.065	3.037	.0534	4008.	.0443	.5145	.2860
Stddev	.0030	.7	.015	.018	.0005	68.	.0006	.0011	.0042
%RSD	6.487	.5039	.7321	.6073	.9550	1.697	1.269	.2131	1.471
#1	.0429	133.2	2.055	3.017	.0528	3930.	.0444	.5134	.2908
#2	.0489	134.0	2.058	3.042	.0535	4041.	.0437	.5144	.2836
#3	.0459	134.6	2.082	3.053	.0538	4054.	.0448	.5156	.2835

Elem	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
IS Ref	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)
Avg	.3169	114.9	54.61	158.0	2.414	.4433	51.66	.5681	.5136
Stddev	.0019	.8	.55	1.0	.010	.0022	.37	.0018	.0053
%RSD	.6024	.6714	1.005	.6390	.4297	.4957	.7143	.3221	1.025
#1	.3189	114.0	54.09	156.8	2.417	.4423	51.35	.5677	.5183
#2	.3151	115.1	54.56	158.7	2.402	.4459	51.55	.5665	.5146
#3	.3165	115.5	55.19	158.4	2.422	.4418	52.07	.5701	.5079

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	.1157	2.036	6.798	.5013	F45.14	2.845	1.688	.6538	.7256
Stddev	.0041	.010	.006	.0022	.44	.011	.009	.0027	.0007
%RSD	3.532	.4721	.0909	.4335	.9733	.3750	.5593	.4201	.0936
#1	.1189	2.025	6.793	.4988	45.01	2.850	1.678	.6565	.7256
#2	.1171	2.043	6.797	.5026	44.79	2.833	1.689	.6510	.7249
#3	.1111	2.040	6.805	.5024	45.63	2.852	1.697	.6539	.7262

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	2579.3	7006.9	43917.	4206.9
Stddev	1.6	7.9	186.	21.2
%RSD	.06063	.11312	.42361	.50323
#1	2580.6	7009.1	43866.	4231.3
#2	2579.7	7013.5	44123.	4194.1
#3	2577.6	6998.1	43762.	4195.1

Zoom In Zoom Out

Sample Name: MP28752-S2 Acquired: 4/6/2015 10:54:10 Type: Unk
Method: 60102007_041712(v218) Mode: CONC Corr. Factor: 10.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)
Avg	.0460	135.1	2.112	3.076	.0534	4159.	.0447	.5208	.2799
Stddev	.0036	.4	.005	.006	.0005	57.	.0005	.0016	.0005
%RSD	7.760	.2676	.2560	.1937	1.029	1.365	1.108	.3130	.1857
#1	.0487	135.5	2.118	3.082	.0537	4199.	.0447	.5189	.2796
#2	.0473	134.8	2.107	3.070	.0527	4094.	.0452	.5220	.2796
#3	.0419	135.0	2.112	3.075	.0537	4185.	.0442	.5214	.2805

Elem	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
IS Ref	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)
Avg	.3238	114.6	55.47	161.0	2.409	.4510	53.07	.5775	.5127
Stddev	.0029	.2	.28	.5	.007	.0003	.14	.0011	.0031
%RSD	.8846	.1475	.5091	.3209	.3079	.0585	.2733	.1941	.5991
#1	.3265	114.6	55.19	160.5	2.401	.4513	53.24	.5762	.5093
#2	.3240	114.4	55.48	161.0	2.413	.4508	52.95	.5780	.5153
#3	.3208	114.7	55.75	161.6	2.414	.4510	53.03	.5782	.5134

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	.1191	2.082	6.753	.5103	F48.25	2.842	1.688	.6610	.7353
Stddev	.0044	.025	.003	.0035	.78	.009	.012	.0034	.0022
%RSD	3.655	1.182	.0414	.6797	1.625	.3268	.6827	.5170	.3013
#1	.1143	2.073	6.750	.5122	48.93	2.832	1.688	.6641	.7327
#2	.1204	2.110	6.755	.5123	47.39	2.844	1.699	.6617	.7366
#3	.1227	2.064	6.754	.5063	48.44	2.850	1.676	.6573	.7366

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	2584.4	7028.2	44353.	4216.8
Stddev	3.3	5.9	86.	38.7
%RSD	.12620	.08382	.19344	.91699
#1	2587.8	7034.9	44269.	4213.5
#2	2581.3	7023.8	44348.	4257.0
#3	2584.1	7025.9	44441.	4179.8

Zoom In Zoom Out

Sample Name: MP28752-PS1 Acquired: 4/6/2015 10:58:29 Type: Unk
Method: 60102007_041712(v218) Mode: CONC Corr. Factor: 10.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)
Avg	.0538	89.08	.1285	1.336	.0599	3824.	.0521	.0836	.1275
Stddev	.0027	.15	.0020	.003	.0003	34.	.0002	.0001	.0037
%RSD	5.001	.1696	1.560	.2394	.4382	.8809	.4675	.0823	2.875
#1	.0510	88.91	.1265	1.335	.0600	3820.	.0521	.0836	.1316
#2	.0563	89.18	.1305	1.335	.0596	3859.	.0519	.0836	.1244
#3	.0542	89.16	.1283	1.340	.0600	3792.	.0524	.0837	.1266

Elem	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
IS Ref	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)
Avg	.1719	77.77	35.25	119.1	1.668	.0938	35.54	.1777	.0997
Stddev	.0022	.16	.33	.9	.008	.0004	.10	.0011	.0030
%RSD	1.266	.2100	.9424	.7359	.4540	.4660	.2705	.6378	3.042
#1	.1742	77.68	35.22	118.6	1.675	.0943	35.59	.1790	.1032
#2	.1700	77.67	35.60	120.2	1.660	.0935	35.43	.1770	.0975
#3	.1714	77.96	34.93	118.7	1.668	.0936	35.60	.1771	.0984

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	.0876	.0863	10.64	.0626	F43.79	2.059	.0949	.2087	.4894
Stddev	.0120	.0102	.03	.0034	.51	.008	.0105	.0007	.0007
%RSD	13.65	11.82	.2719	5.418	1.156	.3905	11.08	.3262	.1477
#1	.0996	.0975	10.63	.0587	43.24	2.064	.1008	.2080	.4894
#2	.0875	.0776	10.62	.0647	44.24	2.050	.0827	.2094	.4886
#3	.0757	.0838	10.67	.0645	43.89	2.063	.1011	.2086	.4901

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	2611.9	7020.5	44587.	4276.0
Stddev	5.9	19.8	126.	18.6
%RSD	.22644	.28134	.28147	.43383
#1	2606.9	7003.7	44442.	4257.5
#2	2618.4	7042.3	44650.	4276.1
#3	2610.3	7015.5	44668.	4294.6

Zoom In Zoom Out

Sample Name: MP28752-SD1 Acquired: 4/6/2015 11:02:50 Type: Unk
Method: 60102007_041712(v218) Mode: CONC Corr. Factor: 50.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	.0186	128.1	.0161	1.506	.0053	5483.	-.0102	.0317	.1151	.0677
Stddev	.0040	.4	.0140	.009	.0043	23.	.0029	.0073	.0063	.0094
%RSD	21.27	.3044	87.23	.6210	82.46	.4125	28.78	23.13	5.504	13.90
#1	.0146	128.5	.0004	1.515	.0080	5505.	-.0136	.0402	.1195	.0761
#2	.0187	127.9	.0275	1.504	.0003	5483.	-.0090	.0269	.1079	.0575
#3	.0225	127.8	.0202	1.497	.0075	5460.	-.0081	.0281	.1181	.0694

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	105.8	35.51	162.7	2.254	-.1312	32.51	.0728	.1085	-.1374	-.1309
Stddev	.5	.87	2.5	.012	.0024	.46	.0026	.0176	.0251	.0040
%RSD	.4838	2.451	1.538	.5234	1.864	1.419	3.634	16.20	18.30	3.088
#1	106.3	35.35	163.3	2.264	-.1293	33.05	.0717	.1033	-.1165	-.1300
#2	105.7	36.44	164.9	2.241	-.1339	32.24	.0708	.1281	-.1653	-.1353
#3	105.3	34.73	160.0	2.256	-.1303	32.25	.0758	.0941	-.1304	-.1274

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	76.97	-.0129	60.68	3.704	-.0065	.2190	.3230
Stddev	2.75	.0052	.13	.035	.0298	.0076	.0039
%RSD	3.571	40.26	.2094	.9499	459.0	3.488	1.211
#1	79.95	-.0098	60.82	3.719	-.0356	.2248	.3238
#2	74.54	-.0099	60.64	3.664	.0239	.2218	.3188
#3	76.41	-.0188	60.57	3.729	-.0077	.2103	.3265

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	2879.4	7315.4	46610.	4322.0
Stddev	6.1	9.4	156.	40.8
%RSD	.21115	.12809	.33397	.94364
#1	2881.1	7323.2	46443.	4280.6
#2	2884.4	7317.9	46751.	4323.4
#3	2872.6	7305.0	46636.	4362.1

Zoom In Zoom Out

Sample Name: FA23258-22 Acquired: 4/6/2015 11:06:55 Type: Unk
Method: 60102007_041712(v218) Mode: CONC Corr. Factor: 10.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	-.0013	94.85	.0092	1.212	.0040	3315.	-.0035	.0287	.0801	.0714
Stddev	.0031	.07	.0063	.004	.0006	27.	.0002	.0007	.0007	.0038
%RSD	238.6	.0713	68.78	.2856	15.73	.8025	5.810	2.608	.8190	5.260
#1	-.0025	94.91	.0070	1.213	.0034	3284.	-.0035	.0295	.0805	.0678
#2	-.0036	94.78	.0043	1.215	.0038	3331.	-.0034	.0287	.0794	.0753
#3	.0022	94.86	.0163	1.209	.0047	3329.	-.0038	.0280	.0806	.0710

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	78.85	24.41	217.1	1.665	-.0186	20.24	.0662	.0534	-.0189	-.0289
Stddev	.17	.21	.7	.004	.0016	.04	.0012	.0032	.0026	.0081
%RSD	.2178	.8572	.3445	.2318	8.529	.2079	1.873	6.010	13.48	28.01
#1	78.68	24.17	216.7	1.669	-.0197	20.22	.0661	.0542	-.0201	-.0365
#2	78.85	24.50	216.6	1.661	-.0193	20.21	.0650	.0562	-.0207	-.0204
#3	79.02	24.56	218.0	1.665	-.0168	20.29	.0674	.0499	-.0160	-.0297

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	9.056	.0146	32.99	2.201	-.0118	.1640	.2342
Stddev	.026	.0029	.03	.004	.0055	.0025	.0011
%RSD	.2880	19.91	.0811	.1898	46.70	1.531	.4486
#1	9.049	.0123	32.97	2.206	-.0109	.1669	.2351
#2	9.035	.0137	33.02	2.197	-.0176	.1631	.2345
#3	9.085	.0179	32.98	2.201	-.0067	.1621	.2331

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	2624.6	7042.1	44707.	4308.7
Stddev	5.9	6.5	36.	17.3
%RSD	.22551	.09194	.07959	.40250
#1	2617.8	7035.7	44666.	4328.7
#2	2628.5	7048.6	44730.	4300.0
#3	2627.5	7042.1	44726.	4297.5

Zoom In Zoom Out

Sample Name: FA23258-23 Acquired: 4/6/2015 11:11:07 Type: Unk
Method: 60102007_041712(v218) Mode: CONC Corr. Factor: 10.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	-.0011	114.1	.0203	1.245	.0049	3929.	-.0022	.0414	.1034	.0872
Stddev	.0027	.2	.0027	.003	.0006	38.	.0004	.0004	.0019	.0036
%RSD	243.9	.1637	13.08	.2742	12.74	.9590	16.27	.9665	1.821	4.169
#1	-.0009	113.9	.0197	1.241	.0049	3937.	-.0026	.0418	.1055	.0902
#2	.0015	114.3	.0232	1.245	.0056	3889.	-.0019	.0410	.1021	.0832
#3	-.0038	114.1	.0180	1.248	.0043	3963.	-.0021	.0414	.1025	.0881

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	108.8	40.65	96.55	2.674	-.0241	29.92	.0999	.0701	-.0146	-.0214
Stddev	.3	.20	.55	.013	.0016	.19	.0016	.0031	.0122	.0030
%RSD	.3003	.4920	.5746	.4807	6.822	.6415	1.607	4.420	83.64	13.95
#1	108.4	40.42	96.81	2.689	-.0242	29.70	.0993	.0688	-.0007	-.0204
#2	109.0	40.75	95.91	2.668	-.0224	29.99	.0988	.0679	-.0198	-.0190
#3	108.9	40.78	96.93	2.666	-.0257	30.07	.1018	.0737	-.0234	-.0247

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	7.086	.0148	19.89	2.296	-.0088	.1926	.3145
Stddev	.013	.0019	.06	.011	.0164	.0025	.0013
%RSD	.1839	12.78	.2826	.4848	187.3	1.273	.4065
#1	7.072	.0158	19.83	2.308	-.0157	.1930	.3153
#2	7.088	.0126	19.94	2.293	.0100	.1899	.3130
#3	7.098	.0159	19.91	2.286	-.0205	.1948	.3152

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	2611.9	7061.1	44710.	4293.6
Stddev	10.0	17.2	190.	34.0
%RSD	.38264	.24397	.42575	.79100
#1	2600.8	7041.2	44524.	4296.5
#2	2620.1	7070.2	44701.	4326.1
#3	2614.9	7071.9	44905.	4258.3

Zoom In Zoom Out

Sample Name: FA23258-25 Acquired: 4/6/2015 11:15:20 Type: Unk
Method: 60102007_041712(v218) Mode: CONC Corr. Factor: 10.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)
Avg	-.0021	103.5	.0185	1.224	.0042	3659.	-.0030	.0315	.0869
Stddev	.0028	.6	.0031	.003	.0006	35.	.0002	.0008	.0017
%RSD	131.5	.5777	16.75	.2800	13.95	.9451	8.200	2.443	1.907
#1	-.0052	102.9	.0151	1.220	.0035	3620.	-.0029	.0320	.0860
#2	-.0014	103.6	.0192	1.225	.0043	3685.	-.0033	.0307	.0859
#3	.0003	104.1	.0211	1.227	.0047	3671.	-.0030	.0320	.0888

Elem	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
IS Ref	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)
Avg	.0834	86.99	31.06	189.7	1.999	-.0116	56.64	.0760	.0608
Stddev	.0013	.08	.37	1.2	.003	.0018	.28	.0020	.0014
%RSD	1.552	.0928	1.188	.6403	.1687	15.75	.4858	2.586	2.314
#1	.0827	86.89	30.64	188.7	2.002	-.0098	56.33	.0738	.0607
#2	.0826	87.03	31.34	189.3	1.995	-.0134	56.81	.0767	.0594
#3	.0849	87.03	31.18	191.1	1.999	-.0116	56.79	.0775	.0622

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	-.0248	-.0159	7.609	.0130	F44.46	2.248	-.0041	.1722	.2625
Stddev	.0096	.0161	.018	.0013	.78	.005	.0082	.0025	.0003
%RSD	38.77	101.3	.2373	10.26	1.753	.2164	201.0	1.472	.1320
#1	-.0170	-.0328	7.591	.0123	43.69	2.252	.0027	.1745	.2627
#2	-.0219	-.0142	7.610	.0145	45.24	2.243	-.0133	.1726	.2621
#3	-.0356	-.0007	7.627	.0121	44.45	2.248	-.0017	.1695	.2628

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	2618.2	7048.4	44796.	4332.3
Stddev	4.4	9.6	98.	41.2
%RSD	.16823	.13560	.21852	.95066
#1	2623.3	7059.3	44739.	4375.1
#2	2615.1	7041.4	44909.	4328.8
#3	2616.4	7044.4	44740.	4293.0

Zoom In Zoom Out

Sample Name: CCV Acquired: 4/6/2015 11:19:41 Type: QC
Method: 60102007_041712(v218) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2498	39.07	2.081	2.039	1.996	38.97	2.026	2.042	1.921	2.010
Stddev	.0005	.13	.004	.008	.007	.07	.004	.004	.006	.007
%RSD	.1850	.3375	.2014	.4113	.3673	.1897	.1728	.1895	.3371	.3407
#1	.2501	39.05	2.076	2.036	1.992	38.91	2.023	2.038	1.917	2.015
#2	.2493	39.21	2.081	2.048	2.004	39.05	2.025	2.041	1.918	2.002
#3	.2500	38.95	2.084	2.032	1.991	38.94	2.030	2.046	1.929	2.014
Check ?	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass
Value																				
Range																				

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	40.06	39.91	39.30	1.975	2.059	39.27	2.066	1.953	2.088	2.092
Stddev	.04	.09	.05	.005	.011	.12	.001	.006	.005	.003
%RSD	.1111	.2224	.1293	.2598	.5324	.3084	.0678	.3182	.2539	.1490
#1	40.05	39.84	39.27	1.974	2.047	39.25	2.065	1.950	2.083	2.089
#2	40.11	40.01	39.27	1.971	2.059	39.40	2.066	1.950	2.089	2.092
#3	40.02	39.88	39.36	1.981	2.069	39.16	2.068	1.960	2.093	2.095
Check ?	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass
Value																				
Range																				

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.359	2.110	2.004	1.988	2.002	2.004	1.996
Stddev	.006	.003	.008	.005	.006	.003	.002
%RSD	.2464	.1536	.4083	.2673	.3054	.1472	.1143
#1	2.352	2.106	2.000	1.988	1.997	2.005	1.993
#2	2.360	2.112	2.014	1.983	2.002	2.001	1.995
#3	2.363	2.112	2.000	1.994	2.009	2.007	1.998
Check ?	None	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass
Value															
Range															

Zoom In Zoom Out

Sample Name: CCV Acquired: 4/6/2015 11:19:41 Type: QC
Method: 60102007_041712(v218) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2655.8	7200.7	45958.	4307.0
Stddev	2.2	3.6	176.	24.8
%RSD	.08098	.04985	.38250	.57654
#1	2658.3	7204.8	46059.	4286.3
#2	2654.7	7199.5	46060.	4334.6
#3	2654.5	7198.0	45755.	4300.3

Zoom In Zoom Out

Sample Name: CCB Acquired: 4/6/2015 11:23:37 Type: QC
Method: 60102007_041712(v218) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0001	-.0069	-.0003	.0000	.0002	.0070	.0001	.0001	.0000
Stddev	.0002	.0105	.0004	.0001	.0001	.0004	.0001	.0001	.000
%RSD	169.8	153.5	115.5	475.0	23.77	6.258	52.36	77.28	2413.
#1	-.0001	.0052	-.0004	.0001	.0002	.0066	.0002	.0002	-.0001
#2	.0001	-.0114	-.0006	.0001	.0003	.0070	.0001	.0001	.0001
#3	.0003	-.0143	.0001	-.0001	.0002	.0075	.0001	.0000	-.0001
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000	.0163	.0103	-.0087	.0002	F.0026	.0326	.0002	F.0012
Stddev	.0002	.0096	.0205	.0340	.0001	.0014	.0054	.0001	.0004
%RSD	774.3	58.57	199.3	390.8	23.91	53.28	16.66	47.92	35.04
#1	.0002	.0271	.0285	.0304	.0002	.0040	.0265	.0003	.0015
#2	-.0002	.0130	-.0119	-.0249	.0003	.0023	.0347	.0003	.0007
#3	.0001	.0089	.0142	-.0317	.0003	.0013	.0367	.0001	.0012
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Fail
High Limit						.0010			.0010
Low Limit						-.0010			-.0010

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0004	.0003	.0032	.0000	.0002	.0006	-.0007	.0002	-.0002
Stddev	.0015	.0004	.0002	.0005	.0001	.0001	.0000	.0001	.0001
%RSD	407.4	108.7	5.777	1505.	31.25	18.81	.8869	66.95	45.38
#1	.0011	.0008	.0031	.0005	.0002	.0007	-.0007	.0002	-.0001
#2	-.0004	.0001	.0035	-.0001	.0001	.0005	-.0007	.0000	-.0002
#3	-.0018	.0002	.0032	-.0003	.0002	.0005	-.0007	.0002	-.0003
Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Zoom In Zoom Out

Sample Name: CCB Acquired: 4/6/2015 11:23:37 Type: QC
Method: 60102007_041712(v218) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3174.7	7577.4	48462.	4329.0
Stddev	6.7	14.2	39.	42.6
%RSD	.21143	.18722	.08035	.98489
#1	3182.1	7593.0	48430.	4280.9
#2	3169.0	7565.3	48452.	4344.3
#3	3173.1	7573.8	48506.	4361.9

Zoom In Zoom Out

Sample Name: FA23258-27 Acquired: 4/6/2015 11:27:48 Type: Unk
Method: 60102007_041712(v218) Mode: CONC Corr. Factor: 10.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	-.0028	94.73	.0165	.9801	.0049	4074.	-.0038	.0320	.0808	.0662
Stddev	.0012	.31	.0060	.0028	.0004	43.	.0001	.0007	.0040	.0027
%RSD	44.55	.3299	36.13	.2850	7.846	1.062	3.334	2.189	4.971	4.134
#1	-.0017	95.04	.0202	.9787	.0045	4123.	-.0037	.0312	.0781	.0691
#2	-.0025	94.41	.0197	.9782	.0050	4059.	-.0037	.0323	.0855	.0637
#3	-.0041	94.72	.0096	.9833	.0053	4041.	-.0039	.0325	.0790	.0659

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	80.93	28.00	137.0	1.770	-.0086	23.70	.0754	.0433	-.0154	-.0238
Stddev	.18	.24	.3	.007	.0014	.05	.0008	.0068	.0129	.0137
%RSD	.2242	.8661	.2212	.3719	16.02	.1977	1.103	15.72	83.95	57.41
#1	81.14	28.23	137.4	1.777	-.0070	23.75	.0761	.0449	-.0016	-.0191
#2	80.86	28.02	136.9	1.764	-.0092	23.66	.0757	.0492	-.0174	-.0131
#3	80.79	27.75	136.9	1.770	-.0096	23.71	.0745	.0359	-.0272	-.0392

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	7.833	.0164	30.55	2.281	-.0113	.1732	.2279
Stddev	.018	.0030	.04	.010	.0022	.0003	.0008
%RSD	.2270	18.43	.1301	.4406	19.60	.1735	.3608
#1	7.813	.0187	30.56	2.290	-.0135	.1735	.2284
#2	7.839	.0175	30.50	2.270	-.0090	.1732	.2270
#3	7.847	.0130	30.58	2.284	-.0113	.1729	.2285

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	2598.0	7033.3	44354.	4285.6
Stddev	3.2	5.7	126.	45.0
%RSD	.12223	.08152	.28425	1.0501
#1	2600.9	7028.4	44211.	4234.7
#2	2598.4	7039.6	44399.	4301.9
#3	2594.6	7031.9	44451.	4320.2

Zoom In Zoom Out

Sample Name: FA23258-29 Acquired: 4/6/2015 11:32:01 Type: Unk
Method: 60102007_041712(v218) Mode: CONC Corr. Factor: 10.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	-.0021	127.0	.0251	1.407	.0049	4189.	-.0034	.0424	.1094	.0903
Stddev	.0039	.4	.0079	.007	.0005	73.	.0002	.0008	.0012	.0035
%RSD	184.7	.3338	31.52	.4993	9.679	1.746	4.528	1.963	1.114	3.831
#1	-.0047	126.6	.0309	1.415	.0048	4133.	-.0034	.0417	.1087	.0873
#2	.0024	127.1	.0284	1.406	.0055	4162.	-.0033	.0433	.1108	.0895
#3	-.0039	127.4	.0161	1.401	.0046	4271.	-.0036	.0421	.1088	.0941

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	113.0	40.53	139.8	2.464	-.0177	32.25	.0975	.0672	-.0190	-.0126
Stddev	.2	.24	1.0	.004	.0010	.13	.0019	.0006	.0034	.0079
%RSD	.1493	.5995	.7377	.1628	5.920	.3944	1.965	.8399	17.72	62.70
#1	112.8	40.81	138.7	2.468	-.0188	32.10	.0982	.0668	-.0195	-.0112
#2	113.1	40.38	140.3	2.460	-.0167	32.33	.0990	.0678	-.0154	-.0055
#3	113.0	40.40	140.6	2.464	-.0176	32.31	.0954	.0669	-.0220	-.0212

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	8.300	.0143	29.53	2.788	-.0111	.2358	.3225
Stddev	.021	.0009	.04	.002	.0038	.0011	.0010
%RSD	.2576	6.267	.1337	.0767	33.72	.4466	.3023
#1	8.275	.0133	29.48	2.791	-.0154	.2353	.3235
#2	8.316	.0144	29.54	2.788	-.0096	.2370	.3224
#3	8.308	.0151	29.56	2.786	-.0084	.2350	.3216

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	2568.4	6984.4	43802.	4227.0
Stddev	4.4	11.6	97.	41.6
%RSD	.17254	.16646	.22249	.98475
#1	2563.3	6974.9	43740.	4274.7
#2	2570.6	6981.0	43914.	4208.2
#3	2571.4	6997.4	43751.	4198.1

Zoom In
Zoom Out

Sample Name: FA23258-31 Acquired: 4/6/2015 11:36:14 Type: Unk
Method: 60102007_041712(v218) Mode: CONC Corr. Factor: 10.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	-.0024	94.67	.0089	1.064	.0034	3571.	-.0027	.0276	.0811	.0681
Stddev	.0039	.39	.0070	.004	.0008	43.	.0003	.0005	.0030	.0012
%RSD	161.2	.4096	78.18	.4055	22.77	1.200	10.23	1.934	3.649	1.833
#1	-.0020	95.06	.0017	1.060	.0043	3621.	-.0030	.0282	.0794	.0666
#2	.0013	94.66	.0094	1.068	.0028	3550.	-.0024	.0273	.0793	.0688
#3	-.0065	94.29	.0157	1.064	.0032	3543.	-.0027	.0273	.0845	.0688

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	79.46	28.42	100.5	1.799	-.0181	40.81	.0692	.0533	-.0273	-.0231
Stddev	.13	.25	.1	.007	.0004	.08	.0015	.0082	.0057	.0078
%RSD	.1686	.8870	.1159	.3710	2.034	.2061	2.173	15.48	21.06	33.73
#1	79.31	28.54	100.7	1.802	-.0182	40.85	.0682	.0479	-.0265	-.0307
#2	79.54	28.13	100.5	1.804	-.0177	40.87	.0709	.0628	-.0220	-.0235
#3	79.54	28.59	100.5	1.791	-.0185	40.71	.0685	.0491	-.0334	-.0151

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	8.306	.0130	24.92	1.981	-.0105	.1607	.2307
Stddev	.027	.0017	.04	.008	.0081	.0007	.0009
%RSD	.3283	13.35	.1586	.4105	77.19	.4340	.4046
#1	8.286	.0149	24.91	1.989	-.0062	.1612	.2300
#2	8.337	.0125	24.96	1.983	-.0198	.1599	.2303
#3	8.295	.0116	24.88	1.973	-.0054	.1610	.2318

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	2611.7	6993.0	44295.	4243.0
Stddev	5.8	16.3	101.	25.5
%RSD	.22253	.23267	.22826	.60070
#1	2618.3	7011.3	44390.	4217.5
#2	2607.5	6980.0	44189.	4242.8
#3	2609.2	6987.7	44305.	4268.5

Zoom In
Zoom Out

Sample Name: FA23258-33 Acquired: 4/6/2015 11:40:28 Type: Unk
Method: 60102007_041712(v218) Mode: CONC Corr. Factor: 10.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	-.0024	23.53	-.0034	.3251	.0002	3639.	-.0047	.0083	.0170	.0344
Stddev	.0019	.08	.0032	.0006	.0006	22.	.0002	.0006	.0010	.0010
%RSD	79.78	.3492	94.37	.1787	293.3	.6158	4.133	6.977	5.780	2.862
#1	-.0035	23.51	-.0003	.3252	-.0005	3630.	-.0049	.0083	.0180	.0334
#2	-.0002	23.63	-.0032	.3244	.0005	3623.	-.0046	.0077	.0160	.0343
#3	-.0035	23.47	-.0066	.3255	.0006	3665.	-.0045	.0089	.0170	.0354

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	19.09	8.235	55.37	.4558	-.0271	38.13	.0172	.0203	-.0127	-.0381
Stddev	.08	.239	.20	.0001	.0010	.12	.0009	.0075	.0085	.0015
%RSD	.4294	2.897	.3611	.0197	3.826	.3131	5.465	37.04	66.79	3.880
#1	19.01	8.089	55.24	.4558	-.0283	38.00	.0181	.0247	-.0224	-.0398
#2	19.17	8.106	55.60	.4557	-.0264	38.24	.0163	.0245	-.0075	-.0370
#3	19.11	8.510	55.27	.4559	-.0267	38.16	.0170	.0116	-.0080	-.0375

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	4.257	.0095	26.61	.5868	-.0116	.0485	.0669
Stddev	.006	.0012	.08	.0008	.0003	.0003	.0002
%RSD	.1454	12.47	.3066	.1366	2.173	.5222	.2851
#1	4.252	.0108	26.52	.5859	-.0117	.0483	.0668
#2	4.255	.0086	26.68	.5869	-.0119	.0484	.0671
#3	4.264	.0092	26.64	.5875	-.0114	.0488	.0667

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	2615.4	6919.3	44118.	4276.9
Stddev	3.4	10.5	80.	9.0
%RSD	.12972	.15175	.18100	.20967
#1	2611.6	6910.1	44136.	4279.8
#2	2618.0	6917.1	44031.	4284.0
#3	2616.6	6930.8	44187.	4266.8

Zoom In
Zoom Out

Sample Name: FA23189-39 Acquired: 4/6/2015 11:44:43 Type: Unk
Method: 60102007_041712(v218) Mode: CONC Corr. Factor: 10.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)
Avg	-.0006	29.96	.0078	.5326	.0007	3805.	-.0043	.0139	.0229
Stddev	.0014	.24	.0011	.0006	.0003	30.	.0000	.0012	.0006
%RSD	237.8	.8012	13.49	.1075	46.65	.7831	.5626	8.856	2.755
#1	-.0015	29.80	.0090	.5319	.0004	3772.	-.0043	.0140	.0223
#2	-.0014	29.84	.0075	.5328	.0006	3814.	-.0044	.0126	.0228
#3	.0011	30.23	.0070	.5330	.0010	3830.	-.0043	.0151	.0236

Elem	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
IS Ref	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)
Avg	.0430	23.44	10.60	66.57	.5170	-.0255	51.36	.0266	.0263
Stddev	.0030	.14	.15	.59	.0042	.0009	.14	.0009	.0046
%RSD	6.935	.6167	1.424	.8833	.8180	3.643	.2689	3.407	17.64
#1	.0464	23.28	10.74	65.91	.5218	-.0244	51.25	.0256	.0314
#2	.0409	23.56	10.44	67.04	.5139	-.0262	51.32	.0268	.0249
#3	.0416	23.49	10.63	66.75	.5152	-.0259	51.51	.0273	.0225

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	-.0174	-.0258	3.953	.0107	F40.31	.6945	-.0180	.0717	.0797
Stddev	.0034	.0072	.004	.0003	.36	.0055	.0050	.0030	.0007
%RSD	19.77	27.78	.1052	2.516	.8821	.7929	27.52	4.137	.8515
#1	-.0208	-.0321	3.957	.0106	40.42	.7007	-.0130	.0743	.0792
#2	-.0139	-.0275	3.951	.0104	39.92	.6922	-.0229	.0724	.0805
#3	-.0176	-.0180	3.950	.0110	40.61	.6905	-.0182	.0685	.0794

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	2605.9	6893.4	43896.	4229.2
Stddev	5.0	5.7	122.	17.6
%RSD	.19276	.08299	.27723	.41595
#1	2600.2	6891.1	43762.	4244.1
#2	2609.5	6889.3	44000.	4233.8
#3	2608.0	6900.0	43925.	4209.8

Zoom In
Zoom Out

Sample Name: FA23189-41 Acquired: 4/6/2015 11:49:01 Type: Unk
Method: 60102007_041712(v218) Mode: CONC Corr. Factor: 10.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	.0001	71.43	.0147	.8626	.0026	4056.	-.0040	.0268	.0564	.0563
Stddev	.0047	.16	.0054	.0057	.0009	19.	.0004	.0007	.0020	.0011
%RSD	4088.	.2298	36.39	.6652	35.59	.4723	9.594	2.739	3.608	1.952
#1	-.0050	71.24	.0206	.8567	.0016	4076.	-.0040	.0261	.0541	.0575
#2	.0011	71.52	.0100	.8630	.0027	4052.	-.0044	.0275	.0575	.0555
#3	.0042	71.53	.0136	.8682	.0034	4039.	-.0036	.0268	.0576	.0558

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	57.43	23.22	113.8	1.070	-.0196	74.93	.0514	.0430	-.0168	-.0233
Stddev	.12	.39	.4	.002	.0009	.21	.0007	.0054	.0044	.0197
%RSD	.2059	1.678	.3690	.2130	4.433	.2771	1.388	12.56	26.23	84.70
#1	57.40	23.43	113.6	1.073	-.0189	74.71	.0513	.0428	-.0178	-.0338
#2	57.33	22.77	113.6	1.069	-.0194	74.96	.0521	.0377	-.0206	-.0355
#3	57.56	23.46	114.3	1.069	-.0206	75.13	.0507	.0486	-.0120	-.0005

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	7.199	.0147	29.17	1.669	-.0124	.1435	.1626
Stddev	.017	.0013	.08	.001	.0060	.0007	.0007
%RSD	.2399	9.115	.2844	.0426	48.39	.5093	.4576
#1	7.189	.0139	29.09	1.670	-.0147	.1442	.1629
#2	7.189	.0140	29.16	1.668	-.0056	.1437	.1632
#3	7.219	.0163	29.26	1.669	-.0169	.1428	.1618

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	2585.6	6920.3	44085.	4279.7
Stddev	3.6	8.2	53.	12.6
%RSD	.13747	.11800	.12050	.29402
#1	2583.8	6915.4	44037.	4293.5
#2	2583.2	6915.6	44142.	4268.9
#3	2589.6	6929.7	44075.	4276.6

Zoom In
Zoom Out

Sample Name: FA23243-19 Acquired: 4/6/2015 11:53:16 Type: Unk
Method: 60102007_041712(v218) Mode: CONC Corr. Factor: 5.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	-.0011	125.1	.0684	.7420	.0083	503.6	.0010	.0124	.1969	.0790
Stddev	.0007	.4	.0026	.0002	.0002	1.7	.0003	.0003	.0013	.0007
%RSD	69.32	.3190	3.816	.0248	2.326	.3413	32.31	2.276	.6447	.8741
#1	-.0013	124.8	.0702	.7422	.0081	502.0	.0008	.0121	.1972	.0798
#2	-.0016	125.6	.0696	.7418	.0084	505.4	.0013	.0127	.1955	.0784
#3	-.0002	125.0	.0654	.7420	.0085	503.2	.0008	.0123	.1980	.0788

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	58.43	3.057	159.1	.4624	-.0112	2.721	.0628	.1228	-.0168	-.0009
Stddev	.16	.064	.7	.0013	.0003	.025	.0009	.0018	.0067	.0050
%RSD	.2740	2.087	.4270	.2784	3.079	.9361	1.442	1.433	39.95	573.6
#1	58.25	3.070	158.5	.4637	-.0115	2.707	.0617	.1246	-.0141	.0004
#2	58.56	2.987	159.8	.4611	-.0114	2.750	.0632	.1227	-.0244	.0034
#3	58.48	3.112	159.1	.4625	-.0108	2.706	.0634	.1211	-.0118	-.0064

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	16.33	.0190	2.395	.1753	-.0035	.1294	.0839
Stddev	.01	.0006	.006	.0001	.0010	.0008	.0006
%RSD	.0478	3.160	.2376	.0716	29.76	.6167	.6564
#1	16.33	.0192	2.391	.1753	-.0044	.1303	.0833
#2	16.34	.0195	2.401	.1751	-.0038	.1290	.0843
#3	16.33	.0184	2.392	.1754	-.0024	.1289	.0842

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	2746.3	8551.1	54084.	5084.8
Stddev	5.6	13.3	138.	17.0
%RSD	.20259	.15507	.25461	.33523
#1	2751.9	8566.3	53925.	5098.1
#2	2740.8	8542.3	54149.	5065.6
#3	2746.2	8544.6	54176.	5090.9

Zoom In
Zoom Out

Sample Name: MP28754-D1 Acquired: 4/6/2015 11:57:18 Type: Unk
Method: 60102007_041712(v218) Mode: CONC Corr. Factor: 5.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	-.0019	135.8	.0705	.7671	.0083	717.3	.0012	.0143	.2200	.0888
Stddev	.0010	.5	.0017	.0032	.0004	2.9	.0001	.0004	.0004	.0011
%RSD	50.86	.3971	2.375	.4171	5.059	.4067	6.389	2.594	.1818	1.228
#1	-.0024	136.3	.0715	.7699	.0079	719.5	.0012	.0148	.2202	.0898
#2	-.0008	135.8	.0686	.7678	.0087	718.3	.0012	.0141	.2202	.0888
#3	-.0025	135.3	.0714	.7636	.0082	714.0	.0011	.0141	.2195	.0877

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	64.41	3.804	196.0	.5826	-.0112	3.562	.0784	.1299	-.0183	-.0018
Stddev	.05	.116	.7	.0020	.0002	.013	.0002	.0018	.0019	.0059
%RSD	.0699	3.036	.3389	.3479	2.065	.3507	.3101	1.424	10.29	325.4
#1	64.46	3.740	196.0	.5817	-.0112	3.575	.0786	.1314	-.0202	-.0081
#2	64.39	3.938	196.6	.5811	-.0109	3.559	.0786	.1304	-.0181	.0037
#3	64.38	3.735	195.3	.5849	-.0114	3.551	.0782	.1278	-.0165	-.0011

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	18.06	.0179	2.564	.2029	-.0035	.1574	.0970
Stddev	.02	.0013	.012	.0010	.0019	.0012	.0005
%RSD	.1101	7.179	.4754	.4684	54.25	.7315	.4763
#1	18.06	.0165	2.578	.2022	-.0057	.1568	.0965
#2	18.03	.0190	2.560	.2024	-.0022	.1566	.0974
#3	18.07	.0181	2.554	.2039	-.0027	.1587	.0972

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	2689.4	8481.3	53564.	5031.3
Stddev	5.8	9.2	121.	26.9
%RSD	.21604	.10830	.22563	.53442
#1	2692.7	8491.7	53491.	5018.1
#2	2682.7	8474.5	53703.	5013.6
#3	2692.8	8477.6	53498.	5062.3

Zoom In
Zoom Out

Sample Name: MP28754-S1 Acquired: 4/6/2015 12:01:21 Type: Unk
Method: 60102007_041712(v218) Mode: CONC Corr. Factor: 5.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	.0456	190.3	2.051	2.671	.0578	642.9	.0491	.4982	.4526	.3343
Stddev	.0013	.5	.004	.012	.0007	1.0	.0002	.0005	.0000	.0023
%RSD	2.950	.2747	.1890	.4472	1.297	.1568	.3395	.1005	.0102	.6897
#1	.0458	190.9	2.056	2.676	.0583	643.5	.0489	.4988	.4526	.3363
#2	.0469	189.8	2.049	2.679	.0569	641.7	.0492	.4978	.4527	.3318
#3	.0442	190.3	2.049	2.657	.0581	643.5	.0493	.4980	.4526	.3349

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	102.9	28.05	212.3	1.026	.4130	27.60	.5706	.6536	.1397	1.982
Stddev	.1	.03	.5	.002	.0006	.06	.0005	.0041	.0066	.010
%RSD	.0695	.0985	.2150	.1808	.1402	.2275	.0870	.6236	4.704	.5001
#1	102.8	28.02	212.0	1.029	.4135	27.67	.5710	.6547	.1365	1.972
#2	102.9	28.05	212.1	1.025	.4123	27.56	.5708	.6569	.1353	1.982
#3	102.9	28.08	212.8	1.026	.4132	27.56	.5700	.6491	.1472	1.991

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	18.08	.5079	2.849	.5225	2.112	.6316	.5807
Stddev	.02	.0001	.009	.0012	.005	.0002	.0012
%RSD	.1055	.0289	.2998	.2204	.2247	.0343	.2012
#1	18.07	.5079	2.859	.5237	2.117	.6314	.5793
#2	18.06	.5078	2.846	.5225	2.110	.6318	.5811
#3	18.10	.5081	2.843	.5214	2.109	.6317	.5815

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	2670.5	8344.8	53124.	4961.1
Stddev	2.3	7.2	121.	24.1
%RSD	.08673	.08683	.22772	.48551
#1	2671.5	8353.1	53114.	4982.6
#2	2667.9	8340.6	53009.	4965.6
#3	2672.3	8340.6	53250.	4935.1

Zoom In
Zoom Out

Sample Name: MP28754-S2 Acquired: 4/6/2015 12:05:19 Type: Unk
Method: 60102007_041712(v218) Mode: CONC Corr. Factor: 5.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	.0432	170.7	1.888	2.520	.0539	455.9	.0457	.4656	.4057	.3014
Stddev	.0004	.4	.001	.005	.0003	.2	.0001	.0007	.0018	.0019
%RSD	1.036	.2219	.0646	.2177	.5064	.0527	.2177	.1603	.4441	.6317
#1	.0434	171.1	1.887	2.526	.0540	456.1	.0457	.4649	.4059	.3034
#2	.0436	170.6	1.888	2.519	.0536	456.0	.0456	.4664	.4074	.3012
#3	.0427	170.4	1.889	2.515	.0541	455.7	.0458	.4655	.4038	.2996

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	91.88	25.45	161.3	.8604	.3715	24.92	.5270	.6056	.1123	1.829
Stddev	.24	.06	.3	.0029	.0004	.07	.0011	.0037	.0029	.007
%RSD	.2603	.2271	.1772	.3344	.1122	.2925	.2059	.6028	2.575	.4127
#1	92.15	25.51	161.1	.8578	.3720	24.99	.5274	.6076	.1135	1.836
#2	91.75	25.40	161.1	.8635	.3712	24.93	.5258	.6014	.1090	1.821
#3	91.72	25.44	161.6	.8599	.3713	24.84	.5279	.6078	.1145	1.830

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	16.43	.4689	2.625	.3908	1.935	.5591	.5325
Stddev	.01	.0022	.009	.0006	.002	.0007	.0016
%RSD	.0714	.4752	.3251	.1521	.1116	.1187	.3069
#1	16.43	.4664	2.634	.3901	1.933	.5598	.5340
#2	16.42	.4706	2.625	.3913	1.937	.5592	.5307
#3	16.44	.4697	2.617	.3908	1.936	.5584	.5327

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	2736.2	8381.0	53412.	4968.0
Stddev	1.9	6.4	313.	43.5
%RSD	.06926	.07589	.58627	.87541
#1	2736.2	8375.1	53719.	5014.8
#2	2738.1	8387.7	53093.	4960.3
#3	2734.3	8380.1	53424.	4928.9

Zoom In Zoom Out

Sample Name: CCV Acquired: 4/6/2015 12:09:16 Type: QC
Method: 60102007_041712(v218) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2543	40.06	2.117	2.081	2.043	39.76	2.062	2.081	1.962	2.049
Stddev	.0004	.14	.000	.004	.007	.19	.001	.001	.003	.005
%RSD	.1472	.3477	.0211	.1797	.3613	.4784	.0670	.0378	.1743	.2221
#1	.2540	40.20	2.117	2.083	2.051	39.95	2.062	2.081	1.963	2.049
#2	.2547	40.07	2.117	2.082	2.041	39.78	2.061	2.080	1.959	2.053
#3	.2541	39.92	2.118	2.076	2.036	39.57	2.063	2.081	1.965	2.044
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value										
Range										

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	40.75	40.92	39.86	2.009	2.096	40.30	2.099	1.984	2.129	2.131
Stddev	.14	.08	.21	.000	.007	.13	.002	.001	.003	.001
%RSD	.3396	.1933	.5162	.0129	.3467	.3255	.1030	.0240	.1249	.0254
#1	40.88	41.00	40.03	2.009	2.089	40.44	2.101	1.984	2.131	2.131
#2	40.76	40.92	39.93	2.009	2.095	40.28	2.097	1.985	2.126	2.132
#3	40.60	40.84	39.63	2.009	2.104	40.18	2.099	1.984	2.130	2.131
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value										
Range										

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.410	2.143	2.059	2.027	2.030	2.042	2.026
Stddev	.004	.003	.006	.002	.003	.001	.002
%RSD	.1442	.1257	.2981	.1120	.1454	.0683	.0857
#1	2.413	2.145	2.065	2.027	2.029	2.044	2.026
#2	2.411	2.140	2.058	2.029	2.028	2.041	2.024
#3	2.406	2.142	2.053	2.025	2.033	2.042	2.028
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Pass
Value							
Range							

Zoom In Zoom Out

Sample Name: CCV Acquired: 4/6/2015 12:09:16 Type: QC
Method: 60102007_041712(v218) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2626.2	7117.8	45340.	4277.4
Stddev	1.5	2.6	139.	22.8
%RSD	.05651	.03694	.30620	.53294
#1	2624.7	7115.0	45302.	4258.8
#2	2626.2	7120.2	45494.	4270.6
#3	2627.7	7118.3	45224.	4302.8

Zoom In Zoom Out

Sample Name: CCB Acquired: 4/6/2015 12:13:11 Type: QC
Method: 60102007_041712(v218) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0001	-.0061	-.0004	.0000	.0002	.0048	.0002	.0002	.0000
Stddev	.0003	.0043	.0005	.0001	.0001	.0024	.0001	.0001	.0001
%RSD	571.3	71.03	113.2	449.1	60.27	50.34	45.27	52.36	165.3
#1	.0001	-.0024	.0001	-.0001	.0001	.0051	.0002	.0003	.0000
#2	-.0005	-.0050	-.0008	.0000	.0003	.0070	.0002	.0003	.0001
#3	.0001	-.0108	-.0006	.0002	.0002	.0022	.0001	.0001	.0000
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0001	.0156	.0099	-.0099	.0002	F.0028	.0280	.0000	.0005
Stddev	.0001	.0086	.0091	.0076	.0000	.0013	.0047	.0002	.0001
%RSD	234.9	54.73	91.89	76.24	12.25	48.82	16.69	342.5	21.83
#1	-.0001	.0229	.0145	-.0164	.0002	.0042	.0232	.0000	.0005
#2	-.0001	.0177	-.0006	-.0016	.0002	.0025	.0326	.0002	.0003
#3	.0001	.0062	.0158	-.0118	.0002	.0015	.0283	-.0001	.0005
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit						.0010			
Low Limit						-.0010			

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0004	.0006	.0042	.0002	.0002	.0005	-.0006	.0003	-.0002
Stddev	.0009	.0008	.0003	.0001	.0001	.0001	.0004	.0001	.0001
%RSD	215.0	138.2	6.160	57.55	45.10	14.31	55.43	45.80	32.27
#1	.0004	.0002	.0040	.0002	.0001	.0006	-.0005	.0003	-.0001
#2	-.0002	.0015	.0045	.0004	.0002	.0005	-.0003	.0003	-.0002
#3	-.0015	.0000	.0042	.0001	.0002	.0004	-.0010	.0001	-.0002
Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Zoom In Zoom Out

Sample Name: CCB Acquired: 4/6/2015 12:13:11 Type: QC
Method: 60102007_041712(v218) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3135.5	7467.5	48003.	4304.3
Stddev	6.0	11.5	37.	49.3
%RSD	.19139	.15341	.07736	1.1448
#1	3133.5	7461.0	48004.	4330.8
#2	3142.2	7480.7	47966.	4247.4
#3	3130.7	7460.8	48040.	4334.5

Zoom In Zoom Out

Sample Name: MP28754-PS1 Acquired: 4/6/2015 12:17:22 Type: Unk
Method: 60102007_041712(v218) Mode: CONC Corr. Factor: 5.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	.0427	126.2	.1632	.9695	.0559	501.0	.0478	.0597	.2419	.1754
Stddev	.0009	.1	.0009	.0014	.0001	.9	.0001	.0002	.0013	.0002
%RSD	2.187	.1112	.5770	.1436	.2620	.1860	.3068	.4088	.5305	.1195
#1	.0432	126.2	.1643	.9679	.0558	500.8	.0478	.0594	.2415	.1754
#2	.0433	126.1	.1625	.9706	.0560	500.2	.0480	.0599	.2434	.1756
#3	.0416	126.4	.1629	.9698	.0557	502.1	.0477	.0599	.2409	.1752

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	60.39	12.61	161.5	.5029	.0860	12.63	.1599	.1759	.0826	.0944
Stddev	.07	.10	.6	.0008	.0006	.07	.0008	.0033	.0016	.0019
%RSD	.1189	.8061	.3969	.1679	.7342	.5160	.5072	1.903	1.988	2.041
#1	60.31	12.65	162.0	.5036	.0865	12.65	.1599	.1729	.0840	.0964
#2	60.45	12.49	160.8	.5031	.0862	12.55	.1591	.1795	.0808	.0943
#3	60.42	12.69	161.8	.5020	.0853	12.68	.1607	.1753	.0831	.0925

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	16.91	.0657	2.408	.2672	.1044	.1755	.3147
Stddev	.02	.0008	.001	.0001	.0034	.0011	.0004
%RSD	.1393	1.221	.0528	.0559	3.232	.6422	.1347
#1	16.89	.0666	2.408	.2671	.1006	.1760	.3151
#2	16.91	.0650	2.409	.2672	.1056	.1763	.3143
#3	16.94	.0655	2.407	.2674	.1070	.1742	.3145

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	2722.8	8478.3	53749.	5044.2
Stddev	1.9	3.2	101.	40.3
%RSD	.06950	.03826	.18791	.79852
#1	2722.4	8475.9	53752.	5044.4
#2	2721.1	8477.0	53646.	5084.4
#3	2724.9	8482.0	53848.	5003.8

Zoom In Zoom Out

Sample Name: MP28754-SD1 Acquired: 4/6/2015 12:21:24 Type: Unk
Method: 60102007_041712(v218) Mode: CONC Corr. Factor: 25.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	.0003	287.5	.1467	1.686	.0191	1155.	.0006	.0281	.4570	.1714
Stddev	.0041	.3	.0027	.004	.0013	1.	.0003	.0017	.0060	.0046
%RSD	1189.	.1170	1.851	.2393	6.557	.0680	47.25	5.947	1.316	2.674
#1	.0049	287.8	.1497	1.690	.0205	1156.	.0006	.0287	.4566	.1753
#2	-.0008	287.4	.1459	1.683	.0183	1154.	.0008	.0294	.4513	.1725
#3	-.0031	287.1	.1445	1.685	.0184	1155.	.0003	.0262	.4633	.1663

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	135.4	5.959	367.9	1.057	-.0563	5.536	.1418	.2477	-.0765	-.0263
Stddev	.2	.560	1.2	.001	.0017	.056	.0013	.0039	.0254	.0359
%RSD	.1343	9.389	.3289	.1336	2.980	1.019	.9236	1.558	33.16	136.4
#1	135.5	6.144	368.1	1.058	-.0559	5.548	.1423	.2444	-.0634	.0108
#2	135.2	5.330	366.6	1.057	-.0581	5.585	.1428	.2468	-.0603	-.0290
#3	135.6	6.403	369.0	1.055	-.0548	5.474	.1403	.2520	-.1057	-.0608

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	43.90	.0273	5.421	.4773	-.0204	.2977	.1851
Stddev	.16	.0041	.011	.0082	.0092	.0022	.0014
%RSD	.3752	14.90	.2101	1.725	45.00	.7504	.7348
#1	44.09	.0264	5.428	.4865	-.0243	.2975	.1838
#2	43.77	.0238	5.408	.4706	-.0269	.2956	.1850
#3	43.85	.0318	5.427	.4749	-.0099	.3001	.1865

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	2869.5	7896.2	50393.	4575.6
Stddev	3.8	8.8	87.	7.6
%RSD	.13390	.11186	.17330	.16554
#1	2866.1	7886.6	50309.	4571.2
#2	2873.7	7898.2	50387.	4571.2
#3	2868.7	7903.9	50483.	4584.3

Zoom In Zoom Out

Sample Name: FA23243-20 Acquired: 4/6/2015 12:25:29 Type: Unk
Method: 60102007_041712(v218) Mode: CONC Corr. Factor: 5.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	-.0008	86.03	.0526	.6976	.0067	96.13	.0008	.0082	.1574	.5348
Stddev	.0007	.28	.0034	.0014	.0003	.32	.0001	.0003	.0012	.0007
%RSD	87.14	.3212	6.448	.1997	4.968	.3361	15.98	3.064	.7374	.1364
#1	-.0011	86.29	.0549	.6989	.0067	96.41	.0007	.0085	.1575	.5341
#2	.0000	86.06	.0487	.6978	.0064	96.20	.0009	.0080	.1586	.5347
#3	-.0013	85.74	.0541	.6962	.0070	95.78	.0009	.0082	.1563	.5356

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	40.18	1.792	29.50	.6065	-.0098	1.071	.0401	.2006	-.0151	-.0010
Stddev	.16	.109	.18	.0009	.0006	.014	.0004	.0016	.0016	.0057
%RSD	.4022	6.060	.5982	.1478	5.966	1.268	.9772	.8004	10.87	542.2
#1	40.36	1.911	29.68	.6063	-.0092	1.086	.0398	.1993	-.0141	-.0043
#2	40.10	1.770	29.49	.6075	-.0099	1.060	.0400	.2000	-.0170	.0055
#3	40.07	1.697	29.32	.6058	-.0103	1.068	.0405	.2024	-.0142	-.0043

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	11.68	.0206	1.601	.1104	-.0056	.0586	.1035
Stddev	.01	.0004	.004	.0002	.0017	.0006	.0003
%RSD	.1147	2.172	.2795	.1651	29.59	1.036	.2650
#1	11.70	.0201	1.604	.1102	-.0053	.0586	.1032
#2	11.67	.0207	1.603	.1106	-.0042	.0592	.1035
#3	11.69	.0210	1.596	.1105	-.0075	.0580	.1038

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	2952.8	8471.7	53894.	4914.0
Stddev	3.3	1.7	63.	43.4
%RSD	.11195	.01959	.11620	.88335
#1	2953.9	8472.7	53966.	4882.1
#2	2949.1	8469.8	53851.	4896.3
#3	2955.4	8472.6	53865.	4963.4

Zoom In Zoom Out

Sample Name: FA23243-21 Acquired: 4/6/2015 12:29:32 Type: Unk
Method: 60102007_041712(v218) Mode: CONC Corr. Factor: 5.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	-.0001	192.4	.0870	.9770	.0089	799.3	.0012	.0207	.3496	.0381
Stddev	.0012	.4	.0025	.0004	.0004	1.8	.0001	.0002	.0023	.0011
%RSD	2046.	.1984	2.847	.0424	3.937	.2288	7.753	1.101	.6717	2.850
#1	-.0014	192.8	.0893	.9774	.0093	800.5	.0011	.0205	.3513	.0387
#2	.0009	192.0	.0844	.9766	.0090	797.2	.0013	.0207	.3469	.0388
#3	.0004	192.5	.0874	.9771	.0086	800.2	.0013	.0209	.3506	.0369

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	97.55	4.664	230.4	.6476	-.0097	4.561	.1023	.1610	-.0154	-.0022
Stddev	.17	.068	.4	.0019	.0003	.026	.0004	.0024	.0038	.0019
%RSD	.1693	1.457	.1652	.2980	3.166	.5799	.4105	1.469	24.60	87.07
#1	97.65	4.730	230.2	.6474	-.0098	4.570	.1020	.1594	-.0192	-.0017
#2	97.36	4.669	230.1	.6457	-.0099	4.531	.1028	.1597	-.0116	-.0043
#3	97.64	4.594	230.8	.6496	-.0094	4.582	.1022	.1637	-.0154	-.0006

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	11.80	.0203	3.068	.5424	-.0040	.2300	.1695
Stddev	.00	.0020	.010	.0016	.0069	.0008	.0004
%RSD	.0086	9.765	.3163	.2973	172.9	.3585	.2085
#1	11.80	.0183	3.077	.5416	-.0012	.2294	.1691
#2	11.80	.0204	3.058	.5414	-.0119	.2310	.1696
#3	11.80	.0223	3.070	.5443	.0011	.2297	.1698

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	2641.9	8681.3	54275.	5123.4
Stddev	4.4	2.7	87.	21.2
%RSD	.16621	.03098	.16100	.41472
#1	2640.3	8679.1	54177.	5147.9
#2	2646.9	8680.5	54344.	5112.4
#3	2638.6	8684.3	54304.	5110.0

Zoom In
Zoom Out

Sample Name: FA23243-22 Acquired: 4/6/2015 12:33:35 Type: Unk
Method: 60102007_041712(v218) Mode: CONC Corr. Factor: 5.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	.0002	155.6	.0785	.7799	.0072	794.8	.0009	.0164	.2869	.0174
Stddev	.0003	1.2	.0010	.0026	.0002	6.3	.0001	.0002	.0001	.0009
%RSD	138.3	.7481	1.253	.3371	2.746	.7889	14.40	.9424	.0432	4.996
#1	-.0001	154.3	.0773	.7773	.0070	787.6	.0010	.0164	.2870	.0168
#2	.0005	156.4	.0792	.7799	.0073	798.5	.0007	.0162	.2868	.0169
#3	.0002	156.2	.0788	.7826	.0074	798.4	.0009	.0165	.2869	.0184

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	80.44	3.740	208.8	.6131	-.0108	3.894	.0814	.1165	-.0149	-.0041
Stddev	.53	.049	1.7	.0014	.0005	.018	.0002	.0016	.0024	.0045
%RSD	.6591	1.295	.8229	.2217	4.451	.4661	.1985	1.384	16.41	109.2
#1	79.87	3.792	206.9	.6135	-.0104	3.874	.0816	.1178	-.0163	-.0092
#2	80.53	3.696	210.1	.6116	-.0113	3.907	.0814	.1147	-.0121	-.0012
#3	80.92	3.732	209.4	.6142	-.0108	3.903	.0812	.1171	-.0163	-.0018

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	12.03	.0176	2.420	.4821	-.0060	.1931	.1136
Stddev	.02	.0013	.009	.0017	.0009	.0013	.0001
%RSD	.2014	7.581	.3562	.3506	15.35	.6862	.0672
#1	12.06	.0172	2.410	.4829	-.0065	.1945	.1135
#2	12.02	.0190	2.425	.4801	-.0065	.1928	.1137
#3	12.01	.0164	2.425	.4832	-.0049	.1919	.1136

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	2653.6	8422.6	53067.	4964.1
Stddev	2.9	4.3	24.	57.9
%RSD	.10741	.05120	.04596	1.1664
#1	2654.3	8420.0	53051.	5030.5
#2	2656.0	8427.6	53095.	4923.6
#3	2650.4	8420.3	53054.	4938.4

Zoom In
Zoom Out

Sample Name: FA23243-23 Acquired: 4/6/2015 12:37:39 Type: Unk
Method: 60102007_041712(v218) Mode: CONC Corr. Factor: 5.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	.0007	170.0	.1884	.7745	.0080	1056.	.0029	.0259	.3644	.2601
Stddev	.0006	.0	.0028	.0016	.0003	1.	.0000	.0004	.0022	.0014
%RSD	90.17	.0172	1.465	.2050	3.798	.0493	.7577	1.486	.6146	.5373
#1	.0003	170.0	.1870	.7742	.0082	1055.	.0029	.0261	.3670	.2587
#2	.0004	170.1	.1866	.7763	.0080	1056.	.0029	.0255	.3630	.2600
#3	.0014	170.0	.1916	.7732	.0076	1056.	.0029	.0262	.3632	.2615

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	104.8	6.886	352.4	1.064	.0037	6.401	.1321	.1412	-.0102	.0051
Stddev	.0	.120	1.2	.003	.0005	.011	.0003	.0024	.0011	.0065
%RSD	.0430	1.741	.3290	.2995	12.73	.1648	.2625	1.723	10.32	127.6
#1	104.7	6.986	351.1	1.068	.0037	6.401	.1319	.1384	-.0099	-.0023
#2	104.8	6.918	353.3	1.062	.0041	6.390	.1320	.1426	-.0094	.0097
#3	104.8	6.753	352.8	1.062	.0032	6.411	.1325	.1427	-.0114	.0079

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	13.71	.0200	3.048	.5691	-.0046	.3968	.3246
Stddev	.02	.0025	.004	.0008	.0017	.0015	.0002
%RSD	.1255	12.33	.1228	.1444	36.38	.3825	.0713
#1	13.72	.0184	3.051	.5701	-.0048	.3978	.3248
#2	13.69	.0187	3.049	.5688	-.0028	.3951	.3246
#3	13.70	.0228	3.044	.5686	-.0061	.3976	.3244

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	2576.4	8574.0	53339.	5081.2
Stddev	3.8	10.0	279.	34.1
%RSD	.14725	.11626	.52278	.67042
#1	2574.4	8568.4	53030.	5112.7
#2	2574.0	8568.1	53572.	5085.9
#3	2580.7	8585.5	53414.	5045.1

Zoom In
Zoom Out

Sample Name: FA23243-24 Acquired: 4/6/2015 12:41:42 Type: Unk
Method: 60102007_041712(v218) Mode: CONC Corr. Factor: 5.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	-.0012	155.7	.1068	.7521	.0067	779.1	.0020	.0163	.3191	.3083
Stddev	.0022	.5	.0014	.0027	.0002	2.7	.0001	.0003	.0005	.0023
%RSD	183.2	.2915	1.344	.3649	2.577	.3406	4.203	1.752	.1708	.7348
#1	.0005	155.9	.1053	.7528	.0065	779.3	.0020	.0167	.3193	.3096
#2	-.0037	156.1	.1069	.7545	.0068	781.7	.0021	.0161	.3194	.3096
#3	-.0004	155.2	.1081	.7491	.0068	776.4	.0019	.0162	.3184	.3056

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	87.62	4.746	227.1	.8881	.0010	4.493	.0821	.1391	-.0154	-.0030
Stddev	.32	.135	1.1	.0014	.0008	.044	.0005	.0006	.0013	.0034
%RSD	.3615	2.847	.4813	.1613	79.88	.9701	.6132	.4501	8.361	113.3
#1	87.34	4.832	227.3	.8865	.0018	4.502	.0823	.1398	-.0140	-.0037
#2	87.96	4.815	228.2	.8890	.0003	4.531	.0824	.1387	-.0164	.0007
#3	87.56	4.590	226.0	.8889	.0007	4.446	.0815	.1387	-.0159	-.0061

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	13.83	.0196	2.781	.4963	-.0050	.2500	.2135
Stddev	.02	.0012	.007	.0019	.0004	.0026	.0002
%RSD	.1197	6.090	.2402	.3814	8.968	1.040	.1116
#1	13.85	.0198	2.782	.4962	-.0054	.2485	.2137
#2	13.82	.0182	2.787	.4983	-.0051	.2485	.2133
#3	13.81	.0206	2.774	.4945	-.0045	.2530	.2134

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	2644.3	8415.8	52282.	4923.7
Stddev	4.8	11.6	267.	28.2
%RSD	.18060	.13770	.51159	.57313
#1	2639.3	8403.1	52586.	4907.5
#2	2644.9	8418.4	52082.	4907.3
#3	2648.8	8425.9	52178.	4956.3

Zoom In
Zoom Out

Sample Name: FA23243-25 Acquired: 4/6/2015 12:45:46 Type: Unk
Method: 60102007_041712(v218) Mode: CONC Corr. Factor: 5.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	-.0012	145.4	.0847	1.043	.0072	600.4	.0017	.0165	.2997	.4973
Stddev	.0009	.3	.0008	.004	.0004	1.7	.0001	.0004	.0018	.0008
%RSD	74.38	.1766	.9774	.3777	5.964	.2759	3.306	2.590	.5916	.1673
#1	-.0013	145.1	.0839	1.039	.0077	598.6	.0016	.0170	.3016	.4969
#2	-.0021	145.6	.0856	1.046	.0069	601.9	.0017	.0166	.2980	.4968
#3	-.0003	145.4	.0846	1.043	.0071	600.6	.0017	.0161	.2996	.4983

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	79.97	4.031	103.8	1.003	-.0082	3.895	.0670	.2027	-.0093	-.0056
Stddev	.15	.133	.3	.002	.0007	.050	.0003	.0023	.0053	.0038
%RSD	.1827	3.300	.3294	.1508	8.200	1.283	.3867	1.153	57.22	66.69
#1	79.80	3.940	103.4	1.004	-.0077	3.847	.0670	.2045	-.0123	-.0031
#2	80.04	3.970	104.0	1.001	-.0089	3.947	.0667	.2036	-.0032	-.0100
#3	80.06	4.184	104.0	1.002	-.0079	3.891	.0672	.2001	-.0125	-.0038

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	10.38	.0204	4.196	.3036	-.0007	.1608	.2499
Stddev	.02	.0013	.014	.0003	.0061	.0006	.0013
%RSD	.2081	6.555	.3368	.0979	837.9	.4040	.5251
#1	10.39	.0210	4.182	.3039	-.0021	.1614	.2507
#2	10.36	.0214	4.211	.3034	.0059	.1610	.2484
#3	10.40	.0189	4.197	.3034	-.0060	.1601	.2507

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	2720.1	8601.0	53008.	5001.0
Stddev	6.1	20.7	101.	12.4
%RSD	.22340	.24040	.19017	.24856
#1	2716.6	8585.7	52915.	4994.8
#2	2727.1	8624.5	52993.	4992.9
#3	2716.6	8592.9	53115.	5015.3

Zoom In Zoom Out

Sample Name: FA23243-26 Acquired: 4/6/2015 12:49:48 Type: Unk
Method: 60102007_041712(v218) Mode: CONC Corr. Factor: 5.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	-.0001	161.1	.0562	1.194	.0083	282.0	.0012	.0156	.3023	.4737
Stddev	.0014	.7	.0011	.005	.0000	.9	.0000	.0004	.0008	.0007
%RSD	1392.	.4141	1.926	.4172	.4609	.3025	3.312	2.690	.2672	.1524
#1	-.0006	161.8	.0567	1.200	.0083	283.0	.0012	.0153	.3025	.4742
#2	.0015	160.9	.0549	1.193	.0082	281.7	.0012	.0161	.3029	.4739
#3	-.0012	160.5	.0569	1.190	.0082	281.3	.0011	.0154	.3014	.4729

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	83.23	2.771	59.39	.5343	-.0102	1.723	.0600	.2142	-.0138	-.0018
Stddev	.30	.044	.31	.0031	.0002	.001	.0004	.0024	.0034	.0058
%RSD	.3570	1.607	.5231	.5895	2.383	.0380	.7389	1.140	24.46	331.7
#1	83.49	2.756	59.44	.5366	-.0105	1.723	.0596	.2116	-.0099	-.0046
#2	82.90	2.821	59.06	.5355	-.0100	1.724	.0599	.2164	-.0160	-.0056
#3	83.29	2.737	59.67	.5307	-.0100	1.722	.0605	.2145	-.0154	.0049

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	9.083	.0213	3.427	.2749	-.0047	.1352	.1916
Stddev	.004	.0013	.014	.0010	.0007	.0003	.0000
%RSD	.0471	6.028	.4032	.3724	15.52	.2260	.0128
#1	9.079	.0208	3.442	.2760	-.0049	.1355	.1916
#2	9.082	.0204	3.425	.2746	-.0053	.1349	.1915
#3	9.088	.0228	3.415	.2740	-.0039	.1354	.1916

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	2822.0	8659.9	54040.	4944.0
Stddev	2.4	14.2	254.	15.8
%RSD	.08577	.16410	.46996	.31899
#1	2821.2	8657.9	54049.	4931.5
#2	2820.1	8646.8	53781.	4961.8
#3	2824.7	8675.0	54289.	4938.8

Zoom In Zoom Out

Sample Name: FA23243-27 Acquired: 4/6/2015 12:53:52 Type: Unk
Method: 60102007_041712(v218) Mode: CONC Corr. Factor: 5.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	-.0021	126.2	.0877	.7007	.0072	1998.	.0015	.0145	.2930	.0243
Stddev	.0008	.4	.0027	.0028	.0003	23.	.0001	.0002	.0005	.0009
%RSD	36.89	.3172	3.031	.3962	3.524	1.158	6.868	1.301	.1658	3.823
#1	-.0030	126.5	.0908	.7008	.0075	1994.	.0016	.0144	.2930	.0251
#2	-.0020	126.2	.0862	.7035	.0072	1976.	.0014	.0143	.2935	.0244
#3	-.0014	125.7	.0862	.6979	.0070	2022.	.0015	.0147	.2925	.0233

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	78.64	4.515	434.1	1.501	-.0041	14.75	.0786	.0907	-.0065	-.0091
Stddev	.02	.089	2.0	.006	.0004	.06	.0009	.0008	.0014	.0040
%RSD	.0254	1.971	.4580	.4140	8.663	.3928	1.111	.9347	20.90	43.63
#1	78.63	4.494	434.4	1.507	-.0046	14.80	.0795	.0910	-.0050	-.0118
#2	78.66	4.613	431.9	1.501	-.0040	14.69	.0778	.0897	-.0076	-.0111
#3	78.62	4.439	435.9	1.495	-.0039	14.76	.0784	.0913	-.0068	-.0045

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	9.318	.0171	7.877	.5238	-.0086	.2878	.1052
Stddev	.006	.0014	.022	.0016	.0020	.0010	.0001
%RSD	.0642	7.933	.2760	.3000	23.84	.3600	.1305
#1	9.325	.0185	7.891	.5253	-.0105	.2870	.1052
#2	9.316	.0170	7.889	.5238	-.0088	.2889	.1050
#3	9.313	.0158	7.852	.5222	-.0064	.2873	.1053

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	2439.4	8360.5	51787.	5001.8
Stddev	3.3	5.8	164.	51.0
%RSD	.13544	.06909	.31683	1.0190
#1	2440.6	8354.2	51640.	4981.9
#2	2435.6	8361.7	51755.	5059.8
#3	2441.8	8365.6	51964.	4963.9

Zoom In Zoom Out

Sample Name: CCV Acquired: 4/6/2015 12:58:03 Type: QC
Method: 60102007_041712(v218) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2556	41.03	2.095	2.090	2.071	40.65	2.072	2.088	2.008	2.075
Stddev	.0010	.26	.003	.012	.012	.26	.001	.001	.005	.003
%RSD	.3851	.6337	.1252	.5717	.6000	.6471	.0558	.0389	.2506	.1416
#1	.2556	40.79	2.098	2.081	2.062	40.44	2.071	2.087	2.007	2.075
#2	.2545	41.31	2.094	2.104	2.085	40.95	2.071	2.089	2.013	2.072
#3	.2565	40.99	2.094	2.086	2.066	40.58	2.073	2.088	2.003	2.078
Check ?	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass
Value																				
Range																				

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	41.32	41.48	40.15	2.020	2.098	41.24	2.090	2.003	2.116	2.108
Stddev	.27	.26	.20	.010	.007	.24	.001	.001	.004	.001
%RSD	.6650	.6347	.4968	.5080	.3416	.5810	.0502	.0439	.2072	.0298
#1	41.07	41.27	39.97	2.028	2.090	41.06	2.091	2.004	2.112	2.107
#2	41.61	41.77	40.36	2.009	2.099	41.51	2.091	2.002	2.121	2.108
#3	41.26	41.40	40.11	2.024	2.104	41.15	2.089	2.004	2.115	2.108
Check ?	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass
Value																				
Range																				

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.387	2.118	2.092	2.054	2.051	2.057	2.037
Stddev	.001	.001	.011	.002	.005	.002	.002
%RSD	.0571	.0247	.5239	.0929	.2565	.0731	.1004
#1	2.387	2.118	2.084	2.053	2.052	2.058	2.034
#2	2.389	2.119	2.105	2.053	2.045	2.058	2.037
#3	2.386	2.119	2.088	2.056	2.055	2.055	2.038
Check ?	None	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass
Value									
Range									

Zoom In Zoom Out

Sample Name: CCV Acquired: 4/6/2015 12:58:03 Type: QC
Method: 60102007_041712(v218) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2600.6	7093.9	44541.	4146.4
Stddev	2.0	9.9	121.	52.4
%RSD	.07507	.14009	.27153	1.2629
#1	2599.7	7103.4	44503.	4205.3
#2	2599.2	7083.5	44443.	4105.1
#3	2602.8	7094.7	44676.	4128.8

Zoom In Zoom Out

Sample Name: CCB Acquired: 4/6/2015 13:02:01 Type: QC
Method: 60102007_041712(v218) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000	-.0018	-.0006	.0001	.0002	.0115	.0001	.0001	-.0002
Stddev	.000	.0098	.0004	.0002	.0000	.0032	.0000	.0001	.0001
%RSD	865.7	554.0	63.25	224.4	18.37	27.49	30.71	69.25	40.36
#1	-.0001	.0095	-.0008	.0002	.0003	.0092	.0001	.0002	-.0003
#2	.0000	-.0067	-.0002	.0000	.0002	.0102	.0001	.0002	-.0003
#3	.0000	-.0081	-.0008	.0000	.0002	.0151	.0001	.0000	-.0001
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000	.0174	-.0099	-.0257	.0002	F.0029	.0224	.0001	F.0010
Stddev	.000	.0102	.0126	.0162	.0000	.0014	.0006	.0001	.0001
%RSD	377.9	58.63	127.3	62.88	9.238	49.64	2.906	118.6	8.236
#1	.0001	.0278	-.0168	-.0439	.0002	.0044	.0217	.0002	.0011
#2	.0000	.0168	.0046	-.0200	.0002	.0028	.0230	.0001	.0010
#3	-.0001	.0075	-.0174	-.0131	.0002	.0015	.0223	.0000	.0010
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Fail
High Limit						.0010			.0010
Low Limit						-.0010			-.0010

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0003	.0001	.0045	.0000	.0002	.0005	-.0011	.0002	-.0003
Stddev	.0006	.0002	.0002	.000	.0000	.0001	.0003	.0001	.0001
%RSD	234.3	138.3	4.552	1696.	5.499	11.07	27.23	30.06	21.57
#1	.0009	.0003	.0043	.0004	.0001	.0006	-.0008	.0003	-.0002
#2	-.0001	.0001	.0047	-.0001	.0002	.0005	-.0013	.0002	-.0002
#3	.0000	.0000	.0045	-.0003	.0002	.0005	-.0013	.0003	-.0003
Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Zoom In Zoom Out

Sample Name: CCB Acquired: 4/6/2015 13:02:01 Type: QC
Method: 60102007_041712(v218) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3106.4	7461.3	47045.	4208.6
Stddev	6.2	18.9	185.	38.0
%RSD	.20114	.25313	.39301	.90273
#1	3112.8	7483.1	46832.	4246.2
#2	3100.3	7450.3	47166.	4170.2
#3	3106.0	7450.5	47137.	4209.2

Zoom In Zoom Out

Sample Name: FA23243-28 Acquired: 4/6/2015 13:06:14 Type: Unk
Method: 60102007_041712(v218) Mode: CONC Corr. Factor: 5.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	-.0018	99.09	.1018	.4990	.0065	1769.	.0022	.0128	.2757	.0053
Stddev	.0015	.04	.0026	.0014	.0003	13.	.0001	.0005	.0010	.0007
%RSD	82.47	.0454	2.530	.2825	4.349	.7167	5.601	3.534	.3562	13.11
#1	-.0029	99.13	.1002	.5006	.0062	1773.	.0023	.0125	.2767	.0060
#2	-.0001	99.04	.1047	.4979	.0065	1779.	.0021	.0127	.2747	.0054
#3	-.0023	99.10	.1004	.4985	.0068	1754.	.0021	.0133	.2758	.0046

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	67.95	4.665	541.6	1.905	.0001	14.38	.0799	.0809	-.0138	-.0075
Stddev	.26	.074	1.4	.002	.0005	.03	.0001	.0026	.0005	.0068
%RSD	.3843	1.578	.2513	.1150	474.0	.1811	.0715	3.240	3.555	89.75
#1	68.07	4.652	540.9	1.905	.0003	14.35	.0798	.0840	-.0140	-.0103
#2	67.65	4.599	540.7	1.908	.0005	14.40	.0799	.0792	-.0142	.0002
#3	68.12	4.744	543.1	1.904	-.0004	14.39	.0798	.0796	-.0132	-.0125

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	9.177	.0159	4.547	.5512	-.0087	.2968	.1070
Stddev	.016	.0005	.011	.0006	.0014	.0004	.0002
%RSD	.1738	3.385	.2450	.1093	15.93	.1263	.1531
#1	9.175	.0154	4.549	.5515	-.0080	.2970	.1071
#2	9.194	.0159	4.535	.5516	-.0078	.2969	.1071
#3	9.162	.0165	4.557	.5505	-.0103	.2963	.1068

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	2439.6	8682.6	54049.	5209.1
Stddev	2.8	12.2	101.	8.8
%RSD	.11538	.14045	.18604	.16798
#1	2437.1	8673.5	54017.	5218.7
#2	2442.7	8677.8	54162.	5201.6
#3	2439.0	8696.4	53968.	5206.9

Zoom In Zoom Out

Sample Name: FA23243-29 Acquired: 4/6/2015 13:10:27 Type: Unk
Method: 60102007_041712(v218) Mode: CONC Corr. Factor: 5.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	-.0017	76.74	.0125	.6614	.0048	71.12	.0001	.0054	.1143	.0273
Stddev	.0011	.32	.0010	.0020	.0003	.19	.0001	.0003	.0007	.0005
%RSD	66.25	.4159	8.177	.2949	6.022	.2702	171.7	5.332	.6269	1.977
#1	-.0007	76.43	.0113	.6633	.0050	70.98	.0002	.0052	.1146	.0273
#2	-.0014	77.06	.0133	.6615	.0050	71.34	.0000	.0057	.1149	.0267
#3	-.0029	76.72	.0127	.6594	.0045	71.04	.0000	.0053	.1135	.0278

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	30.23	1.772	13.82	.1449	-.0084	1.221	.0390	.1199	-.0149	.0073
Stddev	.04	.042	.09	.0007	.0001	.016	.0007	.0028	.0006	.0007
%RSD	.1385	2.366	.6546	.4989	1.689	1.330	1.719	2.348	3.709	9.358
#1	30.26	1.815	13.75	.1456	-.0084	1.235	.0397	.1173	-.0151	.0080
#2	30.24	1.731	13.92	.1447	-.0082	1.203	.0383	.1194	-.0152	.0070
#3	30.18	1.769	13.78	.1442	-.0085	1.223	.0390	.1229	-.0142	.0068

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	12.54	.0201	1.408	.1359	-.0046	.0651	.0731
Stddev	.00	.0014	.001	.0004	.0032	.0013	.0004
%RSD	.0342	7.190	.1016	.2749	69.64	1.975	.5624
#1	12.54	.0217	1.407	.1362	-.0018	.0665	.0727
#2	12.54	.0188	1.410	.1360	-.0081	.0650	.0735
#3	12.54	.0198	1.407	.1355	-.0039	.0639	.0732

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	2969.9	8251.3	51377.	4679.1
Stddev	2.5	4.8	213.	28.3
%RSD	.08350	.05764	.41444	.60521
#1	2969.0	8256.7	51205.	4709.2
#2	2968.1	8248.0	51310.	4653.0
#3	2972.7	8249.1	51615.	4675.0

Zoom In
Zoom Out

Sample Name: FA23243-30 Acquired: 4/6/2015 13:14:32 Type: Unk
Method: 60102007_041712(v218) Mode: CONC Corr. Factor: 5.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	-.0005	219.5	.0623	1.327	.0129	233.8	.0020	.0259	.4123	.0106
Stddev	.0005	.3	.0013	.004	.0001	.4	.0001	.0001	.0015	.0006
%RSD	112.4	.1360	2.060	.2861	.7115	.1778	5.251	.3844	.3599	5.713
#1	-.0011	219.5	.0621	1.328	.0128	233.7	.0020	.0260	.4108	.0102
#2	.0000	219.3	.0637	1.322	.0128	233.5	.0018	.0259	.4138	.0113
#3	-.0003	219.8	.0611	1.329	.0130	234.3	.0020	.0259	.4124	.0104

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	144.5	3.754	32.41	.2647	.0033	2.817	.0847	.1648	-.0182	.0053
Stddev	.4	.069	.11	.0003	.0001	.027	.0008	.0004	.0016	.0043
%RSD	.2694	1.827	.3488	.1149	2.057	.9453	.9536	.2333	8.636	81.61
#1	144.1	3.761	32.51	.2650	.0033	2.791	.0854	.1646	-.0195	.0030
#2	144.6	3.682	32.29	.2646	.0034	2.816	.0847	.1652	-.0187	.0026
#3	144.8	3.819	32.44	.2645	.0034	2.844	.0838	.1645	-.0165	.0102

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	9.715	.0205	3.504	.3213	-.0039	.3993	.0868
Stddev	.006	.0008	.003	.0006	.0041	.0023	.0002
%RSD	.0574	3.879	.0766	.1997	105.4	.5813	.2234
#1	9.712	.0209	3.505	.3211	-.0023	.3967	.0868
#2	9.712	.0196	3.501	.3208	-.0086	.4010	.0869
#3	9.721	.0211	3.506	.3220	-.0009	.4003	.0865

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	2812.6	9215.8	57053.	5276.4
Stddev	6.3	10.2	145.	18.7
%RSD	.22291	.11060	.25341	.35378
#1	2814.2	9215.0	57188.	5255.9
#2	2805.7	9206.1	56901.	5292.4
#3	2818.0	9226.4	57070.	5280.7

Zoom In
Zoom Out

Sample Name: FA23243-31 Acquired: 4/6/2015 13:18:35 Type: Unk
Method: 60102007_041712(v218) Mode: CONC Corr. Factor: 5.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	-.0008	263.7	.0806	1.388	.0123	405.6	.0020	.0288	.4784	.0076
Stddev	.0016	.1	.0021	.006	.0004	.3	.0002	.0004	.0021	.0010
%RSD	196.2	.0308	2.574	.4015	3.104	.0795	8.931	1.307	.4319	12.75
#1	-.0027	263.8	.0789	1.393	.0127	405.8	.0022	.0289	.4807	.0072
#2	.0003	263.6	.0799	1.382	.0119	405.8	.0018	.0284	.4771	.0087
#3	-.0001	263.7	.0829	1.390	.0123	405.3	.0021	.0292	.4772	.0068

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	143.1	5.644	93.74	.3577	.0016	4.502	.0900	.1772	-.0163	.0066
Stddev	.2	.056	.37	.0015	.0005	.032	.0003	.0012	.0033	.0013
%RSD	.1240	.9851	.3946	.4209	31.77	.7069	.3131	.6575	20.41	19.97
#1	143.3	5.697	93.46	.3586	.0010	4.501	.0897	.1784	-.0154	.0074
#2	142.9	5.586	94.16	.3585	.0020	4.534	.0900	.1761	-.0201	.0051
#3	143.0	5.650	93.60	.3559	.0019	4.471	.0902	.1769	-.0136	.0074

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	8.941	.0202	4.133	.4673	-.0081	.4588	.0995
Stddev	.008	.0010	.002	.0009	.0031	.0016	.0004
%RSD	.0925	4.941	.0587	.1876	38.19	.3445	.3989
#1	8.934	.0191	4.134	.4683	-.0086	.4592	.0998
#2	8.950	.0205	4.130	.4671	-.0048	.4602	.0990
#3	8.940	.0210	4.135	.4666	-.0109	.4571	.0997

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	2727.2	9108.0	56167.	5198.4
Stddev	6.9	15.0	70.	14.4
%RSD	.25219	.16446	.12537	.27672
#1	2722.4	9107.7	56088.	5205.2
#2	2735.1	9123.1	56191.	5181.9
#3	2724.0	9093.1	56222.	5208.1

Zoom In
Zoom Out

Sample Name: FA23243-32 Acquired: 4/6/2015 13:22:39 Type: Unk
Method: 60102007_041712(v218) Mode: CONC Corr. Factor: 5.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	-.0026	101.7	.0270	.9164	.0072	129.6	.0007	.0072	.1913	.0128
Stddev	.0011	.2	.0006	.0014	.0003	.4	.0000	.0002	.0002	.0007
%RSD	44.40	.1861	2.103	.1562	3.920	.2710	5.863	2.341	.1303	5.445
#1	-.0035	101.9	.0272	.9163	.0073	129.8	.0008	.0074	.1912	.0122
#2	-.0013	101.5	.0263	.9150	.0069	129.2	.0007	.0071	.1911	.0127
#3	-.0029	101.8	.0274	.9179	.0074	129.8	.0007	.0072	.1915	.0136

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	46.80	1.404	14.28	.1823	-.0095	1.370	.0404	.1020	-.0148	.0002
Stddev	.15	.036	.13	.0009	.0007	.014	.0004	.0017	.0043	.0049
%RSD	.3241	2.541	.9326	.5146	7.235	1.051	.9538	1.671	29.31	2169.
#1	46.87	1.426	14.13	.1833	-.0103	1.364	.0401	.1004	-.0144	.0059
#2	46.63	1.363	14.30	.1821	-.0089	1.387	.0402	.1019	-.0106	-.0026
#3	46.91	1.422	14.40	.1815	-.0093	1.360	.0408	.1038	-.0193	-.0027

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	11.95	.0166	2.251	.1852	-.0063	.0950	.0575
Stddev	.01	.0006	.006	.0003	.0005	.0005	.0002
%RSD	.0452	3.870	.2751	.1871	7.940	.5472	.3405
#1	11.96	.0169	2.254	.1854	-.0069	.0945	.0573
#2	11.95	.0171	2.243	.1848	-.0062	.0955	.0574
#3	11.96	.0159	2.254	.1854	-.0059	.0948	.0577

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	2904.7	9174.3	57212.	5219.7
Stddev	1.0	5.8	230.	22.1
%RSD	.03579	.06360	.40149	.42284
#1	2905.5	9168.4	57305.	5241.1
#2	2905.0	9180.1	56950.	5221.0
#3	2903.5	9174.3	57380.	5197.0

Zoom In
Zoom Out

Sample Name: FA23243-33 Acquired: 4/6/2015 13:26:44 Type: Unk
Method: 60102007_041712(v218) Mode: CONC Corr. Factor: 10.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	-.0029	245.5	.0618	1.725	.0122	291.7	.0003	.0181	.4645	.0032
Stddev	.0016	.3	.0005	.009	.0003	.3	.0002	.0002	.0022	.0022
%RSD	54.48	.1236	.7991	.5126	2.648	.1058	70.09	.8636	.4791	66.57
#1	-.0011	245.4	.0624	1.715	.0126	291.8	.0003	.0180	.4661	.0057
#2	-.0037	245.2	.0616	1.730	.0119	291.3	.0005	.0183	.4620	.0016
#3	-.0040	245.8	.0615	1.731	.0122	291.9	.0001	.0181	.4655	.0024

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	120.9	2.879	35.39	.2683	-.0191	4.536	.0820	.1355	-.0312	-.0111
Stddev	.1	.139	.62	.0008	.0009	.046	.0012	.0024	.0052	.0033
%RSD	.0762	4.838	1.743	.3063	4.477	1.005	1.496	1.774	16.56	30.07
#1	120.9	2.734	35.60	.2678	-.0184	4.528	.0809	.1342	-.0268	-.0108
#2	120.7	2.891	34.70	.2679	-.0188	4.495	.0818	.1383	-.0369	-.0145
#3	120.9	3.012	35.88	.2693	-.0200	4.585	.0833	.1340	-.0299	-.0079

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	9.873	.0125	4.837	.4100	-.0080	.2582	.1167
Stddev	.005	.0018	.009	.0011	.0019	.0027	.0015
%RSD	.0509	14.57	.1905	.2792	23.85	1.039	1.307
#1	9.871	.0142	4.828	.4092	-.0086	.2568	.1150
#2	9.869	.0106	4.836	.4096	-.0095	.2566	.1174
#3	9.878	.0126	4.847	.4113	-.0058	.2613	.1179

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	2891.0	8666.0	54078.	4921.1
Stddev	5.4	8.6	241.	21.4
%RSD	.18669	.09896	.44606	.43398
#1	2886.9	8675.1	54077.	4906.5
#2	2897.1	8664.8	54320.	4945.6
#3	2889.2	8658.0	53837.	4911.3

Zoom In
Zoom Out

Sample Name: MP28760-MB1 Acquired: 4/6/2015 13:30:50 Type: QC
Method: 60102007_041712(v218) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000	-.0038	-.0018	-.0004	.0000	.0105	-.0002	-.0003	-.0002	-.0004
Stddev	.000	.0088	.0005	.0003	.000	.0015	.0001	.0000	.0001	.0002
%RSD	514.5	231.5	30.75	74.86	598.4	14.49	30.54	8.551	41.14	62.87
#1	.0001	-.0135	-.0012	-.0001	.0000	.0119	-.0002	-.0003	-.0003	-.0006
#2	-.0001	.0035	-.0022	-.0007	.0000	.0108	-.0001	-.0003	-.0001	-.0002
#3	-.0001	-.0013	-.0020	-.0005	.0000	.0089	-.0002	-.0003	-.0002	-.0003
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0004	-.0037	-.0096	-.0001	-.0023	-.0046	-.0003	.0000	-.0021	.0006
Stddev	.0072	.0151	.0120	.0000	.0001	.0063	.0001	.0004	.0003	.0006
%RSD	1825.	404.1	124.6	17.85	4.112	137.3	27.60	1342.	14.87	108.4
#1	.0076	.0014	.0039	-.0001	-.0022	-.0011	-.0003	-.0003	-.0021	.0008
#2	-.0023	.0082	-.0190	-.0001	-.0022	-.0008	-.0003	.0004	-.0024	.0011
#3	-.0065	-.0208	-.0137	-.0002	-.0024	-.0119	-.0002	.0000	-.0018	-.0001
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0252	-.0007	-.0001	-.0009	-.0015	.0000	-.0001
Stddev	.0007	.0001	.0000	.0001	.0005	.000	.0000
%RSD	2.656	7.758	13.26	9.173	32.82	2212.	28.55
#1	.0259	-.0008	-.0002	-.0009	-.0010	-.0001	-.0001
#2	.0246	-.0007	-.0001	-.0009	-.0020	.0003	-.0001
#3	.0250	-.0008	-.0001	-.0010	-.0016	-.0002	-.0002
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Zoom In
Zoom Out

Sample Name: MP28760-MB1 Acquired: 4/6/2015 13:30:50 Type: QC
Method: 60102007_041712(v218) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3118.3	7519.8	47697.	4205.1
Stddev	4.0	6.8	117.	23.7
%RSD	.12743	.09051	.24611	.56433
#1	3114.7	7511.9	47612.	4191.1
#2	3117.6	7523.1	47831.	4191.7
#3	3122.6	7524.3	47649.	4232.5

Zoom In
Zoom Out

Sample Name: MP28760-B1 Acquired: 4/6/2015 13:35:04 Type: QC
Method: 60102007_041712(v218) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0507	28.47	2.131	2.178	.0544	26.29	.0526	.5363	.2117	.2709
Stddev	.0003	.08	.003	.002	.0002	.09	.0001	.0005	.0004	.0007
%RSD	.5402	.2731	.1151	.0685	.4131	.3514	.1473	.0996	.2001	.2767
#1	.0509	28.41	2.133	2.179	.0541	26.23	.0527	.5366	.2121	.2714
#2	.0504	28.45	2.129	2.177	.0545	26.25	.0526	.5356	.2117	.2701
#3	.0509	28.56	2.133	2.180	.0545	26.40	.0527	.5365	.2112	.2713
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value										
Range										

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	27.30	26.59	25.63	.5225	.5214	26.64	.5431	.5026	.5397	2.124
Stddev	.05	.09	.07	.0012	.0003	.06	.0009	.0012	.0015	.005
%RSD	.1883	.3458	.2748	.2383	.0503	.2292	.1570	.2335	.2721	.2433
#1	27.27	26.52	25.63	.5239	.5215	26.59	.5441	.5012	.5410	2.127
#2	27.28	26.56	25.56	.5215	.5211	26.61	.5429	.5035	.5398	2.118
#3	27.36	26.70	25.70	.5221	.5216	26.71	.5424	.5031	.5381	2.127
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value										
Range										

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0314	.5401	.5266	.5127	2.064	.5066	.5213
Stddev	.0017	.0007	.0005	.0010	.003	.0016	.0005
%RSD	5.568	.1319	.1035	.1947	.1263	.3143	.0959
#1	.0334	.5409	.5264	.5136	2.062	.5085	.5215
#2	.0307	.5398	.5261	.5116	2.067	.5057	.5207
#3	.0301	.5396	.5272	.5127	2.063	.5057	.5217
Check ?	None	Chk Pass	None	None	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Zoom In
Zoom Out

Sample Name: MP28760-B1 Acquired: 4/6/2015 13:35:04 Type: QC
Method: 60102007_041712(v218) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2731.6	7237.3	45119.	4164.4
Stddev	2.9	10.6	288.	26.8
%RSD	.10601	.14660	.63782	.64236
#1	2734.7	7225.1	44808.	4181.9
#2	2729.0	7244.3	45174.	4177.6
#3	2731.1	7242.6	45376.	4133.6

Zoom In Zoom Out

Sample Name: FA23132-1 Acquired: 4/6/2015 13:39:02 Type: Unk
Method: 60102007_041712(v218) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)
Avg	.0000	7.278	.1524	.2515	.0005	43.73	.0015	.0468	.0259
Stddev	.0001	.032	.0007	.0006	.0001	.15	.0001	.0001	.0004
%RSD	430.6	.4445	.4325	.2217	25.07	.3505	6.902	.3082	1.656
#1	-.0001	7.241	.1531	.2513	.0004	43.57	.0016	.0466	.0262
#2	.0001	7.291	.1518	.2511	.0006	43.75	.0014	.0469	.0254
#3	.0000	7.302	.1522	.2521	.0007	43.87	.0014	.0469	.0262

Elem	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
IS Ref	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)
Avg	.0418	63.62	2.480	17.38	F4.197	.0042	F91.48	.1131	.0195
Stddev	.0004	.18	.004	.07	.013	.0001	.23	.0002	.0002
%RSD	1.027	.2886	.1666	.3991	.3085	3.244	.2471	.1409	1.190
#1	.0416	63.46	2.477	17.31	4.205	.0043	91.22	.1132	.0196
#2	.0415	63.60	2.478	17.36	4.205	.0041	91.55	.1129	.0197
#3	.0423	63.82	2.485	17.45	4.182	.0041	91.66	.1132	.0193

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	-.0012	.0013	16.58	.0006	.6355	.2617	.0003	.0206	.1258
Stddev	.0005	.0009	.05	.0001	.0021	.0000	.0006	.0004	.0002
%RSD	40.69	67.69	.2920	18.54	.3344	.0140	208.0	2.181	.1426
#1	-.0006	.0009	16.63	.0006	.6330	.2618	.0003	.0203	.1256
#2	-.0014	.0023	16.57	.0005	.6365	.2617	.0009	.0211	.1258
#3	-.0015	.0007	16.53	.0007	.6369	.2618	-.0003	.0204	.1260

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	2684.0	7391.4	44841.	4250.5
Stddev	6.0	5.9	142.	10.3
%RSD	.22353	.08009	.31697	.24237
#1	2690.0	7385.2	44840.	4246.6
#2	2684.0	7397.0	44700.	4262.2
#3	2678.0	7392.0	44984.	4242.8

Zoom In Zoom Out

Sample Name: MP28760-D1 Acquired: 4/6/2015 13:43:16 Type: Unk
Method: 60102007_041712(v218) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)
Avg	.0002	7.724	.1520	.2572	.0004	45.44	.0013	.0475	.0276
Stddev	.0001	.029	.0011	.0012	.0001	.15	.0001	.0001	.0003
%RSD	49.13	.3710	.6958	.4859	25.73	.3298	6.083	.1931	.9917
#1	.0001	7.757	.1532	.2582	.0005	45.61	.0013	.0474	.0276
#2	.0001	7.707	.1518	.2577	.0005	45.37	.0012	.0475	.0278
#3	.0002	7.708	.1511	.2558	.0003	45.34	.0014	.0475	.0273

Elem	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
IS Ref	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)
Avg	.0431	65.50	2.601	17.69	F4.264	.0038	F94.18	.1136	.0205
Stddev	.0003	.21	.024	.06	.007	.0001	.38	.0000	.0001
%RSD	.7666	.3199	.9386	.3251	.1761	2.270	.4046	.0437	.5131
#1	.0432	65.72	2.588	17.75	4.258	.0038	94.60	.1137	.0205
#2	.0427	65.48	2.630	17.68	4.272	.0037	94.09	.1136	.0204
#3	.0434	65.30	2.586	17.64	4.261	.0039	93.86	.1136	.0206

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	-.0011	.0010	16.84	.0005	.6571	.2692	.0005	.0213	.1292
Stddev	.0006	.0003	.01	.0001	.0022	.0005	.0004	.0003	.0003
%RSD	53.54	32.34	.0696	31.06	.3314	.2035	81.27	1.304	.1959
#1	-.0013	.0008	16.83	.0003	.6585	.2690	.0002	.0216	.1289
#2	-.0016	.0008	16.83	.0005	.6583	.2688	.0003	.0210	.1294
#3	-.0005	.0013	16.85	.0006	.6546	.2699	.0009	.0215	.1293

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	2675.7	7420.7	44467.	4201.8
Stddev	5.1	11.3	196.	19.5
%RSD	.19179	.15244	.44071	.46347
#1	2673.6	7420.9	44469.	4193.0
#2	2671.9	7409.2	44270.	4224.2
#3	2681.5	7431.9	44662.	4188.4

Zoom In Zoom Out

Sample Name: CCV Acquired: 4/6/2015 13:47:28 Type: QC
Method: 60102007_041712(v218) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2603	43.61	2.033	2.106	2.154	43.06	2.089	2.098	2.143	2.145
Stddev	.0004	.19	.004	.010	.008	.16	.001	.002	.005	.004
%RSD	.1392	.4435	.2153	.4802	.3821	.3653	.0592	.0765	.2393	.1814
#1	.2607	43.43	2.028	2.097	2.147	42.89	2.089	2.098	2.137	2.143
#2	.2602	43.59	2.037	2.105	2.152	43.07	2.088	2.097	2.146	2.142
#3	.2600	43.82	2.034	2.117	2.163	43.21	2.090	2.100	2.146	2.149
Check ?	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass
Value										
Range										

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	42.73	42.64	40.97	2.053	2.085	43.24	2.040	2.046	2.076	2.055
Stddev	.24	.20	.13	.010	.006	.20	.001	.005	.001	.002
%RSD	.5502	.4620	.3243	.4671	.2792	.4518	.0279	.2350	.0590	.0884
#1	42.49	42.49	40.82	2.043	2.079	43.07	2.040	2.051	2.075	2.057
#2	42.73	42.57	41.06	2.054	2.087	43.21	2.040	2.048	2.075	2.054
#3	42.96	42.86	41.03	2.062	2.090	43.46	2.039	2.041	2.077	2.055
Check ?	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass
Value										
Range										

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.337	2.016	2.189	2.144	2.091	2.078	2.042
Stddev	.001	.001	.010	.003	.006	.001	.001
%RSD	.0515	.0670	.4540	.1452	.2759	.0544	.0522
#1	2.337	2.015	2.180	2.142	2.095	2.077	2.043
#2	2.336	2.016	2.188	2.142	2.095	2.078	2.041
#3	2.339	2.018	2.200	2.147	2.085	2.079	2.042
Check ?	None	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass
Value							
Range							

Zoom In Zoom Out

Sample Name: CCV Acquired: 4/6/2015 13:47:28 Type: QC
Method: 60102007_041712(v218) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2580.5	7188.7	43014.	4003.8
Stddev	5.4	6.6	181.	14.5
%RSD	.20771	.09195	.42009	.36337
#1	2576.9	7181.2	43219.	4019.5
#2	2578.1	7193.9	42944.	3990.7
#3	2586.7	7190.8	42878.	4001.3

Zoom In
Zoom Out

Sample Name: CCB Acquired: 4/6/2015 13:51:32 Type: QC
Method: 60102007_041712(v218) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0002	-.0037	-.0003	-.0001	.0002	.0041	.0000	.0001	.0000
Stddev	.0001	.0071	.0002	.0002	.0000	.0048	.0000	.0000	.0001
%RSD	34.98	194.2	72.84	414.6	22.72	116.5	474.6	34.18	419.1
#1	-.0003	-.0080	-.0001	-.0001	.0002	.0024	.0000	.0001	.0001
#2	-.0002	.0046	-.0005	.0002	.0002	.0004	.0000	.0000	.0001
#3	-.0002	-.0076	-.0004	-.0003	.0001	.0095	.0001	.0001	-.0001
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0003	.0207	.0099	-.0165	.0002	F.0025	.0498	-.0003	.0001
Stddev	.0002	.0100	.0127	.0101	.0000	.0013	.0107	.0001	.0005
%RSD	58.75	48.41	128.6	60.84	9.054	53.24	21.53	38.26	335.2
#1	-.0001	.0318	-.0024	-.0092	.0002	.0040	.0615	-.0002	.0001
#2	-.0005	.0176	.0230	-.0280	.0002	.0023	.0473	-.0004	-.0003
#3	-.0003	.0125	.0091	-.0124	.0002	.0013	.0405	-.0002	.0007
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit						.0010			
Low Limit						-.0010			

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000	-.0010	.0051	.0000	.0002	.0005	-.0007	.0002	-.0003
Stddev	.001	.0009	.0003	.0002	.0001	.0001	.0003	.0002	.0000
%RSD	1625.	93.27	6.055	6018.	35.88	14.16	43.89	97.83	10.45
#1	.0008	-.0020	.0053	.0002	.0003	.0006	-.0008	.0003	-.0003
#2	-.0005	-.0004	.0051	-.0001	.0002	.0006	-.0010	.0000	-.0003
#3	-.0005	-.0005	.0047	-.0001	.0001	.0005	-.0004	.0002	-.0003
Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Zoom In
Zoom Out

Sample Name: CCB Acquired: 4/6/2015 13:51:32 Type: QC
Method: 60102007_041712(v218) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3079.5	7559.4	45160.	4016.1
Stddev	11.5	18.6	45.	23.2
%RSD	.37285	.24655	.10032	.57824
#1	3092.7	7580.6	45174.	4001.1
#2	3072.0	7545.6	45109.	4004.3
#3	3073.7	7551.9	45196.	4042.8

Zoom In
Zoom Out

Sample Name: CCV Acquired: 4/6/2015 14:25:10 Type: QC
Method: 60102007_041712(v218) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2500	39.66	1.981	1.999	1.993	39.94	1.999	1.994	2.000	1.986
Stddev	.0004	.13	.004	.002	.003	.12	.001	.001	.005	.005
%RSD	.1490	.3396	.2092	.1008	.1451	.2954	.0406	.0554	.2297	.2745
#1	.2504	39.67	1.980	1.999	1.994	39.95	2.000	1.995	2.002	1.989
#2	.2498	39.52	1.985	1.997	1.990	39.81	1.999	1.994	1.995	1.990
#3	.2498	39.79	1.977	2.000	1.996	40.05	1.999	1.993	2.003	1.980
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value										
Range										

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	40.61	39.45	39.88	2.018	1.997	39.87	2.002	1.966	1.981	1.991
Stddev	.12	.06	.04	.005	.003	.11	.001	.002	.002	.003
%RSD	.3058	.1631	.1103	.2420	.1601	.2732	.0479	.0897	.1069	.1240
#1	40.64	39.44	39.88	2.023	1.994	39.91	2.003	1.964	1.982	1.991
#2	40.47	39.39	39.83	2.014	1.997	39.75	2.002	1.968	1.978	1.994
#3	40.71	39.51	39.92	2.017	2.000	39.96	2.001	1.965	1.982	1.989
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value										
Range										

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.234	2.020	1.990	2.031	1.990	1.996	1.994
Stddev	.003	.001	.005	.001	.001	.002	.001
%RSD	.1194	.0411	.2622	.0536	.0687	.0825	.0246
#1	2.237	2.020	1.992	2.032	1.988	1.997	1.994
#2	2.233	2.019	1.985	2.031	1.991	1.994	1.994
#3	2.231	2.019	1.995	2.030	1.989	1.995	1.994
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Zoom In
Zoom Out

Sample Name: CCV Acquired: 4/6/2015 14:25:10 Type: QC
Method: 60102007_041712(v218) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2578.5	7145.2	43013.	4019.5
Stddev	2.3	5.2	206.	13.2
%RSD	.08895	.07307	.47925	.32804
#1	2581.1	7143.9	42868.	4031.9
#2	2577.5	7151.0	43249.	4020.8
#3	2576.9	7140.8	42922.	4005.6

Zoom In Zoom Out

Sample Name: CCB Acquired: 4/6/2015 14:31:57 Type: QC
Method: 60102007_041712(v218) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0003	.0020	.0002	.0002	.0001	.0054	.0002	.0002	-.0001
Stddev	.0002	.0050	.0003	.0003	.0001	.0013	.0000	.0001	.0003
%RSD	78.74	246.3	183.3	150.7	84.19	24.68	10.67	40.04	339.9
#1	-.0003	-.0023	.0005	.0003	.0001	.0041	.0002	.0002	.0001
#2	-.0005	.0075	-.0002	-.0001	.0001	.0068	.0002	.0001	.0000
#3	-.0001	.0009	.0002	.0005	.0000	.0053	.0002	.0003	-.0004
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000	.0186	.0236	-.0084	.0001	F.0018	.0094	.0001	-.0002
Stddev	.0001	.0034	.0068	.0269	.0000	.0003	.0048	.0001	.0004
%RSD	967.7	18.16	28.62	318.2	21.98	16.49	51.24	74.64	195.4
#1	.0000	.0211	.0277	-.0349	.0001	.0022	.0098	.0000	-.0002
#2	.0001	.0200	.0158	.0188	.0001	.0017	.0044	.0001	-.0006
#3	-.0001	.0147	.0274	-.0092	.0001	.0016	.0141	.0001	.0002
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit						.0010			
Low Limit						-.0010			

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F.0022	-.0011	.0006	.0009	.0001	.0008	.0006	.0001	.0002
Stddev	.0000	.0007	.0006	.0001	.0001	.0001	.0006	.0001	.0000
%RSD	2.123	64.21	88.29	13.17	82.48	9.819	102.0	54.04	27.26
#1	.0023	-.0019	.0005	.0010	.0001	.0008	.0011	.0001	.0001
#2	.0022	-.0004	.0012	.0010	.0000	.0008	.0005	.0002	.0002
#3	.0022	-.0011	.0002	.0008	.0001	.0009	.0000	.0002	.0002
Check ?	Chk Fail	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	.0020								
Low Limit	-.0020								

Zoom In Zoom Out

Sample Name: CCB Acquired: 4/6/2015 14:31:57 Type: QC
Method: 60102007_041712(v218) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3069.6	7474.4	45339.	4063.3
Stddev	9.5	9.3	121.	39.7
%RSD	.31045	.12463	.26622	.97812
#1	3064.3	7464.2	45421.	4019.8
#2	3063.9	7476.6	45396.	4072.5
#3	3080.6	7482.4	45200.	4097.7

Zoom In Zoom Out

Sample Name: MP28760-SD1 Acquired: 4/6/2015 14:35:55 Type: Unk
Method: 60102007_041712(v218) Mode: CONC Corr. Factor: 5.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	.0008	7.405	.1572	.2604	.0007	46.70	.0018	.0500	.0278	.0457
Stddev	.0026	.045	.0024	.0020	.0001	.17	.0002	.0005	.0008	.0004
%RSD	318.6	.6023	1.538	.7716	16.39	.3593	9.618	.9871	2.719	.8800
#1	.0006	7.438	.1574	.2626	.0006	46.90	.0019	.0504	.0270	.0452
#2	-.0017	7.424	.1594	.2587	.0006	46.59	.0020	.0494	.0285	.0459
#3	.0035	7.355	.1546	.2599	.0008	46.63	.0016	.0501	.0279	.0459

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	66.90	2.823	18.50	4.613	.0086	95.15	.1227	.0198	.0045	.0018
Stddev	.14	.081	.03	.009	.0002	.21	.0001	.0016	.0062	.0011
%RSD	.2148	2.870	.1357	.2069	2.558	.2198	.0838	7.890	139.9	59.78
#1	66.83	2.861	18.47	4.624	.0088	95.28	.1228	.0194	-.0001	.0022
#2	66.81	2.879	18.51	4.605	.0085	94.91	.1227	.0185	.0019	.0006
#3	67.07	2.730	18.51	4.612	.0084	95.26	.1226	.0215	.0116	.0027

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	17.15	.0030	.6415	.2725	.0026	.0218	.1441
Stddev	.01	.0005	.0005	.0002	.0027	.0004	.0005
%RSD	.0859	17.48	.0772	.0838	105.8	1.623	.3601
#1	17.17	.0035	.6420	.2726	-.0005	.0220	.1437
#2	17.14	.0025	.6410	.2727	.0037	.0221	.1440
#3	17.14	.0032	.6415	.2723	.0045	.0214	.1447

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	2887.4	7462.1	45056.	4150.8
Stddev	.4	1.6	70.	31.7
%RSD	.01290	.02197	.15444	.76349
#1	2887.1	7460.4	44976.	4114.5
#2	2887.2	7462.2	45085.	4173.1
#3	2887.8	7463.6	45106.	4164.8

Zoom In Zoom Out

Sample Name: MP28760-PS1 Acquired: 4/6/2015 14:40:01 Type: Unk
Method: 60102007_041712(v218) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)
Avg	.0482	9.447	.2497	.4941	.0532	47.06	.0529	.0957	.0778
Stddev	.0005	.065	.0001	.0025	.0003	.29	.0001	.0003	.0005
%RSD	1.103	.6858	.0483	.4964	.6288	.6094	.1422	.3637	.6566
#1	.0477	9.516	.2496	.4969	.0536	47.39	.0528	.0953	.0778
#2	.0481	9.437	.2496	.4932	.0530	46.94	.0529	.0959	.0773
#3	.0487	9.387	.2498	.4922	.0530	46.85	.0530	.0959	.0784

Elem	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
IS Ref	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)
Avg	.1446	63.99	12.43	21.63	F4.113	.1079	F96.81	.2130	.0692
Stddev	.0002	.31	.05	.12	.017	.0001	.70	.0002	.0004
%RSD	.1148	.4901	.4298	.5482	.4119	.1211	.7227	.0937	.5098
#1	.1448	64.35	12.48	21.76	4.127	.1079	97.61	.2129	.0690
#2	.1445	63.83	12.42	21.53	4.094	.1077	96.53	.2128	.0696
#3	.1447	63.78	12.38	21.60	4.118	.1080	96.30	.2132	.0689

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	.1052	.1029	15.47	.0519	.6421	.3527	.1046	.0706	.3809
Stddev	.0005	.0011	.01	.0003	.0032	.0011	.0009	.0005	.0003
%RSD	.4372	1.114	.0967	.6572	.5058	.3180	.8971	.6499	.0812
#1	.1053	.1039	15.45	.0521	.6459	.3520	.1039	.0702	.3807
#2	.1047	.1017	15.47	.0515	.6405	.3521	.1057	.0706	.3807
#3	.1056	.1033	15.48	.0520	.6400	.3540	.1043	.0711	.3813

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	2630.9	7332.0	43845.	4141.6
Stddev	5.9	7.7	98.	37.5
%RSD	.22390	.10521	.22273	.90445
#1	2628.2	7323.8	43761.	4107.7
#2	2626.8	7333.3	43952.	4135.3
#3	2637.6	7339.0	43822.	4181.8

Zoom In Zoom Out

Sample Name: MP28760-S1 Acquired: 4/6/2015 14:44:10 Type: Unk
Method: 60102007_041712(v218) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)
Avg	.0495	34.38	2.123	2.279	.0520	67.62	.0498	.5327	.2314
Stddev	.0001	.09	.005	.005	.0003	.15	.0001	.0003	.0004
%RSD	.1581	.2537	.2395	.2191	.6514	.2194	.1312	.0601	.1752
#1	.0495	34.47	2.129	2.284	.0523	67.80	.0498	.5327	.2314
#2	.0494	34.30	2.120	2.275	.0520	67.53	.0498	.5330	.2309
#3	.0495	34.36	2.120	2.276	.0517	67.55	.0499	.5323	.2317

Elem	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
IS Ref	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)
Avg	.2965	87.29	27.11	41.83	F4.618	.4794	F112.0	.6022	.5121
Stddev	.0005	.21	.03	.20	.013	.0004	.4	.0003	.0003
%RSD	.1660	.2418	.1039	.4680	.2730	.0739	.3189	.0464	.0489
#1	.2968	87.52	27.14	42.04	4.633	.4790	112.4	.6025	.5118
#2	.2968	87.23	27.09	41.79	4.614	.4797	111.8	.6023	.5120
#3	.2960	87.11	27.10	41.66	4.609	.4793	111.7	.6019	.5123

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	.4538	1.943	16.02	.4692	1.095	.7545	1.939	.5008	.6138
Stddev	.0011	.002	.02	.0016	.003	.0025	.004	.0003	.0006
%RSD	.2495	.0846	.1250	.3467	.2885	.3276	.2054	.0505	.0971
#1	.4548	1.944	16.04	.4691	1.099	.7556	1.938	.5005	.6131
#2	.4526	1.941	16.01	.4709	1.093	.7517	1.936	.5010	.6142
#3	.4541	1.943	16.02	.4677	1.095	.7562	1.943	.5010	.6140

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	2554.6	7300.0	43192.	4094.1
Stddev	2.7	9.0	37.	26.0
%RSD	.10504	.12287	.08518	.63547
#1	2557.2	7301.0	43155.	4065.9
#2	2554.8	7290.5	43229.	4099.2
#3	2551.8	7308.4	43193.	4117.2

Zoom In Zoom Out

Sample Name: MP28760-S2 Acquired: 4/6/2015 14:48:17 Type: Unk
Method: 60102007_041712(v218) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)
Avg	.0492	34.41	2.145	2.290	.0520	67.38	.0503	.5359	.2303
Stddev	.0002	.17	.002	.009	.0002	.30	.0001	.0003	.0004
%RSD	.3850	.5061	.1071	.4060	.4532	.4424	.2254	.0470	.1634
#1	.0490	34.50	2.147	2.301	.0522	67.49	.0503	.5356	.2300
#2	.0493	34.53	2.146	2.284	.0521	67.61	.0502	.5360	.2304
#3	.0493	34.21	2.143	2.285	.0518	67.04	.0504	.5361	.2307

Elem	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
IS Ref	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)
Avg	.2961	87.04	27.13	41.85	F4.579	.4822	F110.7	.6084	.5155
Stddev	.0004	.32	.13	.18	.007	.0004	.7	.0009	.0013
%RSD	.1500	.3668	.4682	.4306	.1638	.0877	.6510	.1509	.2469
#1	.2964	87.29	27.19	41.95	4.588	.4818	111.3	.6078	.5153
#2	.2963	87.14	27.22	41.96	4.576	.4827	111.0	.6080	.5144
#3	.2956	86.68	26.99	41.64	4.574	.4823	109.9	.6095	.5169

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	.4586	1.964	16.10	.4742	1.091	.7462	1.953	.5016	.6174
Stddev	.0019	.003	.01	.0008	.004	.0004	.008	.0007	.0009
%RSD	.4110	.1449	.0503	.1658	.3987	.0535	.4067	.1399	.1490
#1	.4564	1.967	16.09	.4751	1.095	.7465	1.955	.5008	.6172
#2	.4595	1.963	16.10	.4736	1.092	.7464	1.944	.5021	.6166
#3	.4599	1.962	16.09	.4740	1.086	.7457	1.959	.5018	.6184

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	2561.4	7303.5	43676.	4107.7
Stddev	10.5	9.1	83.	21.2
%RSD	.40884	.12510	.18942	.51527
#1	2558.0	7300.8	43643.	4113.5
#2	2573.2	7313.6	43616.	4084.2
#3	2553.1	7296.0	43771.	4125.3

Zoom In Zoom Out

Sample Name: FA23132-2 Acquired: 4/6/2015 14:52:24 Type: Unk
Method: 60102007_041712(v218) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	-.0003	.0529	.0001	.0402	.0001	41.36	.0013	.0052	.0071	.0019
Stddev	.0001	.0051	.0005	.0001	.0001	.26	.0000	.0000	.0001	.0001
%RSD	51.13	9.616	998.2	.1469	227.5	.6403	1.109	.8178	1.310	3.534
#1	-.0002	.0483	.0006	.0403	.0001	41.52	.0013	.0053	.0072	.0019
#2	-.0001	.0584	-.0005	.0402	.0002	41.05	.0013	.0052	.0070	.0018
#3	-.0004	.0520	.0001	.0402	-.0001	41.50	.0013	.0052	.0072	.0019

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	2.054	1.071	19.20	1.985	-.0001	67.96	.0180	.0016	.0012	.0012
Stddev	.023	.011	.12	.021	.0001	.41	.0002	.0005	.0003	.0003
%RSD	1.128	1.019	.6283	1.084	75.20	.5985	1.013	29.22	25.00	21.18
#1	2.080	1.059	19.21	2.010	.0000	68.15	.0180	.0013	.0014	.0011
#2	2.036	1.075	19.07	1.973	-.0002	67.49	.0178	.0015	.0009	.0011
#3	2.047	1.080	19.31	1.973	-.0002	68.23	.0181	.0022	.0011	.0015

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	12.67	.0001	.1958	.0022	.0011	.0010	.0215
Stddev	.01	.0001	.0013	.0002	.0004	.0000	.0001
%RSD	.0895	125.8	.6746	8.360	33.28	2.706	.2515
#1	12.68	.0000	.1968	.0023	.0013	.0010	.0215
#2	12.66	.0001	.1943	.0020	.0007	.0010	.0215
#3	12.67	.0001	.1963	.0021	.0014	.0010	.0216

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	2718.4	7209.9	43229.	4054.8
Stddev	7.3	5.8	133.	14.1
%RSD	.26689	.08103	.30815	.34711
#1	2726.2	7216.7	43151.	4049.2
#2	2711.8	7206.8	43383.	4070.8
#3	2717.0	7206.3	43153.	4044.3

Zoom In Zoom Out

Sample Name: FA23132-3 Acquired: 4/6/2015 14:56:37 Type: Unk
Method: 60102007_041712(v218) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	-.0004	.1865	-.0002	.0462	.0003	12.48	.0000	.0000	.0004	.0006
Stddev	.0002	.0026	.0002	.0004	.0001	.02	.000	.000	.0003	.0001
%RSD	56.60	1.383	120.1	.7811	22.13	.1302	130.2	140.7	77.51	15.03
#1	-.0005	.1837	-.0001	.0466	.0003	12.49	.0000	-.0001	.0007	.0005
#2	-.0005	.1873	.0000	.0462	.0003	12.49	.0000	.0000	.0003	.0006
#3	-.0001	.1887	-.0004	.0458	.0004	12.46	.0000	-.0001	.0001	.0006

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	7.304	.8290	7.122	.1661	.0001	47.25	.0002	.0004	.0005	.0001
Stddev	.030	.0376	.025	.0005	.0001	.11	.0001	.0001	.0004	.0008
%RSD	.4120	4.532	.3458	.3254	143.1	.2259	39.48	14.47	72.48	817.9
#1	7.338	.8211	7.095	.1654	.0001	47.37	.0001	.0003	.0006	.0010
#2	7.282	.8698	7.126	.1664	.0001	47.20	.0003	.0004	.0009	-.0001
#3	7.292	.7960	7.144	.1664	.0000	47.17	.0003	.0004	.0001	-.0006

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	10.80	.0003	.0582	.0063	-.0007	.0007	.0107
Stddev	.01	.0001	.0001	.0017	.0004	.0003	.0000
%RSD	.0514	42.71	.2161	27.61	55.54	40.17	.3197
#1	10.80	.0004	.0583	.0050	-.0010	.0010	.0106
#2	10.79	.0003	.0580	.0082	-.0003	.0004	.0107
#3	10.80	.0001	.0583	.0056	-.0007	.0007	.0107

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	2810.7	7377.6	43497.	4006.9
Stddev	2.7	6.5	196.	16.4
%RSD	.09724	.08872	.45069	.41002
#1	2813.5	7379.5	43687.	4008.9
#2	2808.1	7383.0	43296.	3989.6
#3	2810.5	7370.4	43508.	4022.3

Zoom In Zoom Out

Sample Name: FA23132-8 Acquired: 4/6/2015 15:00:45 Type: Unk
Method: 60102007_041712(v218) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	-.0007	.0465	.0000	.0321	.0000	9.028	.0000	.0000	.0003	.0022
Stddev	.0003	.0103	.0004	.0003	.000	.026	.000	.0001	.0001	.0002
%RSD	46.54	22.07	1322.	.7954	112.4	.2933	68.83	199.5	22.03	10.24
#1	-.0003	.0583	-.0002	.0323	-.0001	9.032	.0000	.0001	.0003	.0024
#2	-.0009	.0395	.0005	.0322	.0000	9.000	.0000	.0000	.0002	.0020
#3	-.0008	.0417	-.0001	.0318	-.0001	9.053	.0000	.0000	.0004	.0022

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	4.674	.3526	4.240	.0458	.0000	35.77	-.0001	.0012	.0068	.0015
Stddev	.011	.0247	.029	.0001	.0001	.04	.0001	.0001	.0007	.0011
%RSD	.2444	6.991	.6957	.2868	788.6	.1171	88.66	8.865	10.26	71.21
#1	4.675	.3597	4.257	.0459	.0001	35.78	.0000	.0011	.0065	.0022
#2	4.663	.3729	4.206	.0456	-.0001	35.72	-.0001	.0014	.0077	.0020
#3	4.685	.3252	4.258	.0458	.0000	35.80	-.0003	.0012	.0064	.0003

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	8.960	.0005	.0337	.0026	-.0002	.0004	.0055
Stddev	.028	.0001	.0001	.0001	.0005	.0002	.0000
%RSD	.3119	26.43	.3507	4.239	193.6	44.81	.3602
#1	8.932	.0004	.0338	.0026	.0001	.0005	.0055
#2	8.960	.0007	.0336	.0025	-.0008	.0005	.0055
#3	8.988	.0005	.0336	.0027	-.0001	.0002	.0055

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	2860.8	7439.6	43325.	3970.8
Stddev	4.5	12.1	88.	3.1
%RSD	.15893	.16237	.20412	.07899
#1	2864.4	7447.6	43236.	3971.1
#2	2862.4	7445.6	43326.	3967.6
#3	2855.7	7425.7	43413.	3973.9

Zoom In Zoom Out

Sample Name: FA23132-9 Acquired: 4/6/2015 15:04:55 Type: Unk
Method: 60102007_041712(v218) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	-.0002	.0539	.0007	.0668	.0003	27.59	.0000	.0051	.0006	.0000
Stddev	.0002	.0116	.0004	.0003	.0000	.07	.000	.0001	.0001	.000
%RSD	63.73	21.49	50.07	.4601	7.602	.2608	199.7	1.318	11.91	803.8
#1	-.0004	.0614	.0005	.0665	.0003	27.54	.0000	.0051	.0005	.0000
#2	-.0002	.0598	.0005	.0668	.0003	27.56	.0000	.0050	.0007	-.0002
#3	-.0001	.0406	.0011	.0671	.0003	27.67	.0000	.0051	.0006	.0001

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	14.26	1.158	14.51	.5985	-.0001	44.45	.0121	.0000	.0006	.0002
Stddev	.06	.009	.03	.0028	.0000	.16	.0002	.0001	.0002	.0014
%RSD	.4325	.7520	.1899	.4734	27.83	.3495	1.748	299.5	33.56	885.4
#1	14.19	1.152	14.52	.6001	-.0001	44.31	.0119	.0000	.0007	.0009
#2	14.28	1.154	14.48	.5952	.0000	44.42	.0122	.0000	.0004	.0010
#3	14.31	1.168	14.53	.6002	-.0001	44.62	.0123	.0001	.0006	-.0014

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	10.05	.0002	.1276	.0016	-.0001	.0035	.0089
Stddev	.02	.0001	.0004	.0000	.0008	.0000	.0001
%RSD	.2347	83.14	.2752	.7335	665.9	1.244	.6620
#1	10.03	.0001	.1272	.0016	-.0010	.0035	.0090
#2	10.04	.0003	.1276	.0016	.0001	.0035	.0088
#3	10.08	.0000	.1280	.0016	.0005	.0036	.0089

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	2783.8	7341.8	43636.	4108.7
Stddev	5.4	7.1	108.	1.4
%RSD	.19523	.09627	.24640	.03423
#1	2778.7	7337.6	43620.	4110.4
#2	2789.5	7350.0	43751.	4107.9
#3	2783.2	7338.0	43537.	4107.9

Zoom In Zoom Out

Sample Name: FA23132-11 Acquired: 4/6/2015 15:09:02 Type: Unk
Method: 60102007_041712(v218) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	.0000	.0310	-.0006	.0286	.0000	16.65	.0000	.0003	.0003	.0147
Stddev	.000	.0071	.0005	.0002	.000	.02	.0000	.0001	.0002	.0001
%RSD	1494.	22.92	83.17	.7118	261.3	.1424	116.3	18.62	80.96	.6527
#1	-.0004	.0239	-.0009	.0286	.0000	16.63	.0000	.0003	.0000	.0147
#2	.0002	.0381	-.0008	.0288	-.0001	16.68	.0000	.0002	.0004	.0146
#3	.0001	.0310	.0000	.0285	.0000	16.65	.0000	.0003	.0004	.0148

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	.1074	.6751	7.698	.0621	-.0002	54.78	.0007	.0011	.0007	.0002
Stddev	.0057	.0214	.035	.0003	.0001	.06	.0001	.0004	.0004	.0022
%RSD	5.301	3.166	.4480	.4089	41.17	.1092	12.85	37.25	53.03	1269.
#1	.1137	.6673	7.732	.0622	-.0001	54.75	.0006	.0010	.0004	-.0004
#2	.1059	.6587	7.699	.0618	-.0002	54.85	.0007	.0016	.0005	-.0017
#3	.1026	.6993	7.663	.0622	-.0003	54.75	.0008	.0008	.0011	.0025

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	8.375	.0002	.0543	.0016	-.0005	.0005	.0308
Stddev	.005	.0001	.0001	.0001	.0006	.0002	.0001
%RSD	.0574	64.12	.1629	5.082	118.6	33.49	.4538
#1	8.377	.0003	.0543	.0016	-.0012	.0004	.0307
#2	8.369	.0002	.0544	.0016	.0001	.0004	.0309
#3	8.378	.0001	.0542	.0015	-.0005	.0007	.0309

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	2802.4	7325.2	44013.	4082.5
Stddev	.4	2.3	171.	18.4
%RSD	.01411	.03171	.38864	.45180
#1	2801.9	7327.9	43816.	4082.7
#2	2802.6	7323.8	44126.	4063.9
#3	2802.6	7323.9	44096.	4100.8

Zoom In Zoom Out

Sample Name: FA23132-12 Acquired: 4/6/2015 15:13:11 Type: Unk
Method: 60102007_041712(v218) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	-.0002	.1372	-.0006	.0225	.0000	10.96	.0000	.0000	.0010	.0006
Stddev	.0003	.0108	.0002	.0002	.0001	.04	.0000	.000	.0001	.0002
%RSD	155.0	7.852	26.35	1.062	230.9	.4033	597.4	471.6	8.245	32.91
#1	.0002	.1295	-.0008	.0224	.0000	10.95	.0000	-.0001	.0010	.0005
#2	-.0005	.1326	-.0005	.0224	.0000	10.91	.0000	.0000	.0010	.0009
#3	-.0003	.1495	-.0006	.0228	.0001	11.00	.0000	.0000	.0011	.0006

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	1.107	.5789	4.961	.1000	-.0002	45.10	.0007	.0017	.0012	.0010
Stddev	.005	.0037	.056	.0002	.0001	.12	.0000	.0004	.0006	.0003
%RSD	.4960	.6374	1.138	.1971	31.84	.2571	3.203	21.46	51.79	26.35
#1	1.111	.5789	4.964	.0998	-.0001	45.21	.0006	.0017	.0005	.0010
#2	1.100	.5751	4.903	.0999	-.0002	44.98	.0007	.0014	.0016	.0012
#3	1.109	.5825	5.015	.1002	-.0003	45.11	.0007	.0021	.0014	.0007

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	8.542	.0002	.0365	.0045	-.0004	.0005	.0117
Stddev	.008	.0003	.0002	.0003	.0009	.0001	.0001
%RSD	.0930	127.1	.4363	5.638	239.4	31.81	.6435
#1	8.533	.0004	.0367	.0043	-.0005	.0003	.0117
#2	8.542	-.0001	.0364	.0044	.0006	.0005	.0117
#3	8.549	.0003	.0366	.0048	-.0012	.0006	.0118

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	2829.1	7396.6	43648.	3998.3
Stddev	3.1	4.6	124.	31.1
%RSD	.11114	.06243	.28354	.77725
#1	2832.7	7400.4	43789.	4008.1
#2	2827.0	7397.9	43556.	4023.3
#3	2827.6	7391.5	43600.	3963.5

Zoom In Zoom Out

Sample Name: CCV Acquired: 4/6/2015 15:17:18 Type: QC
Method: 60102007_041712(v218) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2519	41.35	1.911	2.000	2.041	41.54	1.994	1.987	2.081	2.026
Stddev	.0011	.06	.001	.006	.003	.02	.005	.004	.006	.002
%RSD	.4211	.1559	.0756	.2929	.1417	.0539	.2489	.1820	.2908	.0886
#1	.2509	41.33	1.910	2.006	2.042	41.57	1.988	1.983	2.076	2.025
#2	.2530	41.42	1.910	1.994	2.043	41.54	1.996	1.988	2.088	2.028
#3	.2518	41.30	1.913	2.000	2.037	41.52	1.997	1.990	2.078	2.026
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value										
Range										

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	41.42	40.06	40.13	2.050	1.967	41.24	1.947	1.978	1.934	1.927
Stddev	.06	.14	.05	.003	.008	.13	.002	.002	.001	.003
%RSD	.1545	.3560	.1134	.1335	.4243	.3153	.0769	.1071	.0349	.1513
#1	41.48	40.03	40.08	2.047	1.959	41.25	1.946	1.978	1.934	1.928
#2	41.35	40.21	40.16	2.052	1.968	41.37	1.946	1.980	1.934	1.930
#3	41.43	39.93	40.16	2.052	1.975	41.11	1.948	1.976	1.933	1.924
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value										
Range										

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.180	1.922	2.046	2.079	2.004	1.995	1.977
Stddev	.003	.002	.005	.008	.003	.007	.005
%RSD	.1235	.0793	.2459	.3959	.1317	.3583	.2415
#1	2.178	1.920	2.047	2.072	2.006	1.989	1.972
#2	2.183	1.923	2.051	2.088	2.004	2.002	1.978
#3	2.180	1.923	2.041	2.077	2.001	1.992	1.981
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Pass
Value							
Range							

Zoom In Zoom Out

Sample Name: CCV Acquired: 4/6/2015 15:17:18 Type: QC
Method: 60102007_041712(v218) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2570.3	7218.6	41875.	3890.3
Stddev	3.7	23.9	202.	10.4
%RSD	.14387	.33094	.48226	.26822
#1	2572.8	7241.5	42028.	3901.2
#2	2572.0	7220.6	41646.	3889.4
#3	2566.1	7193.8	41951.	3880.4

Zoom In Zoom Out

Sample Name: CCB Acquired: 4/6/2015 15:21:22 Type: QC
Method: 60102007_041712(v218) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0005	.0041	.0001	.0003	.0003	.0081	.0004	.0006	.0003
Stddev	.0003	.0066	.0005	.0004	.0001	.0045	.0002	.0001	.0002
%RSD	58.23	160.9	503.0	120.4	29.86	55.47	36.58	16.73	79.49
#1	-.0004	.0107	.0004	.0002	.0003	.0030	.0002	.0005	.0002
#2	-.0009	-.0024	.0004	.0007	.0002	.0116	.0005	.0007	.0005
#3	-.0003	.0039	-.0005	.0000	.0003	.0096	.0005	.0005	.0001
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0002	.0434	.0652	-.0029	.0003	F.0045	.0483	.0003	.0010
Stddev	.0002	.0123	.0122	.0417	.0000	.0012	.0061	.0001	.0005
%RSD	97.46	28.36	18.72	1453.	8.140	26.62	12.62	24.13	48.52
#1	.0000	.0561	.0780	-.0019	.0003	.0056	.0502	.0003	.0013
#2	.0001	.0425	.0537	.0384	.0002	.0045	.0414	.0004	.0012
#3	.0003	.0316	.0638	-.0451	.0003	.0033	.0531	.0003	.0004
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit						.0010			
Low Limit						-.0010			

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0017	-.0011	.0006	F.0011	.0003	.0019	.0007	.0002	.0004
Stddev	.0009	.0016	.0005	.0001	.0001	.0001	.0004	.0001	.0001
%RSD	56.55	145.0	81.30	11.21	27.23	5.808	51.04	64.06	27.67
#1	.0026	-.0029	.0003	.0012	.0002	.0020	.0003	.0002	.0003
#2	.0016	.0001	.0004	.0011	.0003	.0018	.0010	.0003	.0005
#3	.0007	-.0005	.0012	.0010	.0002	.0019	.0009	.0001	.0004
Check ?	Chk Pass	Chk Pass	None	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				.0010					
Low Limit				-.0010					

Zoom In Zoom Out

Sample Name: CCB Acquired: 4/6/2015 15:21:22 Type: QC
Method: 60102007_041712(v218) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3076.7	7614.3	44559.	3970.3
Stddev	2.7	5.1	109.	24.7
%RSD	.08619	.06700	.24430	.62127
#1	3077.1	7608.6	44433.	3946.6
#2	3079.1	7615.7	44621.	3968.6
#3	3073.9	7618.5	44623.	3995.8

Zoom In Zoom Out

Sample Name: FA23132-13 Acquired: 4/6/2015 15:25:35 Type: Unk
Method: 60102007_041712(v218) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)
Avg	-.0002	.2562	.1314	.1316	.0001	66.84	-.0001	.0168	.0017
Stddev	.0001	.0198	.0002	.0001	.0000	.08	.0000	.0001	.0003
%RSD	37.39	7.719	.1244	.1043	35.81	.1126	19.25	.5678	16.40
#1	-.0003	.2341	.1316	.1316	.0001	66.77	-.0001	.0169	.0016
#2	-.0002	.2625	.1313	.1318	.0001	66.82	-.0001	.0167	.0014
#3	-.0001	.2721	.1313	.1315	.0000	66.92	-.0001	.0167	.0020

Elem	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
IS Ref	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)
Avg	.0023	32.33	1.439	32.01	F4.442	.0080	F137.0	.0440	.0003
Stddev	.0003	.01	.001	.09	.038	.0002	1.1	.0002	.0006
%RSD	14.72	.0254	.0946	.2721	.8610	2.353	.7814	.4638	192.0
#1	.0025	32.33	1.437	32.09	4.474	.0082	138.0	.0438	.0010
#2	.0025	32.34	1.440	31.92	4.451	.0080	135.9	.0442	-.0001
#3	.0019	32.33	1.439	32.03	4.400	.0078	137.2	.0439	.0000

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	-.0003	.0007	8.579	.0004	.2539	.0120	.0012	.0024	.0201
Stddev	.0008	.0016	.010	.0001	.0005	.0014	.0005	.0002	.0000
%RSD	292.4	239.3	.1210	37.30	.2061	11.93	43.69	7.547	.1044
#1	.0004	.0006	8.588	.0005	.2533	.0108	.0007	.0024	.0201
#2	-.0012	-.0009	8.568	.0003	.2542	.0116	.0011	.0022	.0202
#3	.0000	.0023	8.581	.0003	.2541	.0136	.0018	.0026	.0201

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	2597.1	7127.0	41341.	3966.8
Stddev	3.4	10.3	287.	25.8
%RSD	.12990	.14388	.69457	.65065
#1	2599.5	7129.9	41184.	3938.3
#2	2598.6	7135.5	41166.	3988.7
#3	2593.2	7115.6	41672.	3973.3

Zoom In Zoom Out

Sample Name: FA23132-14 Acquired: 4/6/2015 15:30:00 Type: Unk
Method: 60102007_041712(v218) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	-.0007	.3911	-.0004	.0499	.0005	45.64	.0016	.0111	.0459	.0040
Stddev	.0001	.0075	.0008	.0002	.0001	.08	.0000	.0001	.0004	.0002
%RSD	17.42	1.908	169.8	.4971	9.313	.1748	2.039	.5539	.8459	4.856
#1	-.0007	.3850	.0003	.0501	.0006	45.73	.0016	.0110	.0463	.0041
#2	-.0005	.3994	-.0004	.0498	.0005	45.61	.0016	.0111	.0459	.0041
#3	-.0007	.3887	-.0012	.0496	.0006	45.57	.0017	.0111	.0455	.0037

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	.1542	1.728	33.29	.1904	-.0003	31.57	.0531	.0015	.0005	.0028
Stddev	.0096	.017	.13	.0005	.0001	.07	.0002	.0002	.0008	.0010
%RSD	6.239	.9860	.3967	.2526	22.79	.2274	.3125	15.52	157.7	37.47
#1	.1650	1.746	33.31	.1906	-.0002	31.64	.0529	.0015	-.0002	.0018
#2	.1513	1.712	33.40	.1898	-.0004	31.57	.0532	.0012	.0013	.0026
#3	.1464	1.727	33.14	.1908	-.0003	31.50	.0533	.0016	.0004	.0039

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	9.786	.0003	.2769	.0043	-.0002	.0005	.1550
Stddev	.020	.0004	.0004	.0001	.0010	.0001	.0003
%RSD	.1992	121.2	.1583	2.234	455.5	26.40	.2005
#1	9.771	.0001	.2774	.0042	-.0002	.0004	.1546
#2	9.779	.0001	.2769	.0044	.0007	.0006	.1553
#3	9.808	.0007	.2765	.0044	-.0012	.0004	.1550

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	2745.4	7364.1	42802.	3997.5
Stddev	2.4	7.4	100.	18.2
%RSD	.08598	.10021	.23264	.45405
#1	2748.1	7371.2	42726.	3980.0
#2	2744.5	7364.7	42765.	3996.1
#3	2743.7	7356.4	42915.	4016.3

Zoom In Zoom Out

Sample Name: FA23271-3F Acquired: 4/6/2015 15:34:06 Type: Unk
Method: 60102007_041712(v218) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	-.0005	.0228	-.0006	.0023	.0000	43.95	.0000	-.0001	.0004	-.0004
Stddev	.0006	.0114	.0004	.0003	.000	.23	.000	.0001	.0000	.0001
%RSD	114.2	50.05	70.64	11.92	358.7	.5151	57.45	91.38	6.200	24.95
#1	-.0002	.0126	-.0006	.0024	.0000	44.08	.0000	.0000	.0005	-.0005
#2	-.0011	.0207	-.0002	.0026	.0000	43.69	.0000	-.0001	.0004	-.0005
#3	-.0001	.0351	-.0011	.0020	.0000	44.08	-.0001	-.0001	.0004	-.0003

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	.0222	1.041	7.043	.0049	.0062	7.399	-.0001	.0005	.0013	-.0003
Stddev	.0007	.018	.036	.0001	.0000	.037	.0000	.0005	.0006	.0004
%RSD	2.932	1.778	.5170	1.049	.5592	.4953	32.25	101.8	47.69	143.0
#1	.0219	1.058	7.084	.0050	.0062	7.425	-.0002	.0005	.0020	-.0002
#2	.0230	1.021	7.013	.0049	.0061	7.357	-.0001	.0000	.0009	-.0007
#3	.0219	1.043	7.034	.0049	.0062	7.415	-.0001	.0010	.0009	.0001

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	.6406	.0001	.4282	.0010	.0005	.0002	.0082
Stddev	.0009	.0001	.0020	.0001	.0011	.0001	.0000
%RSD	.1350	69.61	.4764	9.596	222.2	70.18	.3777
#1	.6402	.0002	.4299	.0010	-.0005	.0003	.0083
#2	.6416	.0000	.4259	.0010	.0018	.0001	.0083
#3	.6401	.0001	.4288	.0011	.0002	.0001	.0082

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	2843.7	7372.4	43114.	3987.3
Stddev	4.2	4.1	140.	42.7
%RSD	.14929	.05627	.32508	1.0717
#1	2848.5	7370.0	43019.	3958.4
#2	2842.2	7370.0	43049.	4036.4
#3	2840.5	7377.2	43275.	3967.2

Zoom In Zoom Out

Sample Name: FA23271-4F Acquired: 4/6/2015 15:38:17 Type: Unk
Method: 60102007_041712(v218) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	-.0007	.0746	-.0005	.0040	.0000	36.96	.0000	.0000	.0003	-.0003
Stddev	.0007	.0029	.0002	.0000	.000	.10	.000	.000	.0001	.0002
%RSD	93.27	3.855	35.75	.9551	640.7	.2744	126.6	153.6	29.80	75.09
#1	-.0012	.0779	-.0003	.0040	.0000	37.03	.0000	-.0001	.0002	-.0002
#2	-.0010	.0729	-.0006	.0040	.0000	36.84	.0000	.0000	.0004	-.0002
#3	.0000	.0729	-.0007	.0040	-.0001	37.00	.0000	.0000	.0004	-.0005

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	.0133	.6454	8.640	.0075	.0061	4.869	-.0003	.0012	.0002	.0006
Stddev	.0018	.0258	.033	.0001	.0000	.013	.0001	.0003	.0002	.0004
%RSD	13.20	3.997	.3835	.7416	.7558	.2742	41.99	24.30	74.25	79.56
#1	.0120	.6694	8.672	.0075	.0061	4.880	-.0003	.0012	.0003	.0010
#2	.0153	.6486	8.606	.0074	.0061	4.874	-.0004	.0015	.0000	.0001
#3	.0126	.6181	8.642	.0074	.0062	4.854	-.0001	.0009	.0003	.0007

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	1.965	.0004	.4425	.0015	-.0004	.0017	.0028
Stddev	.006	.0003	.0005	.0000	.0001	.0001	.0000
%RSD	.2865	63.16	.1224	2.813	30.14	5.228	1.456
#1	1.960	.0002	.4429	.0015	-.0003	.0016	.0028
#2	1.966	.0007	.4419	.0015	-.0005	.0018	.0028
#3	1.971	.0004	.4426	.0015	-.0003	.0017	.0028

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	2872.1	7415.0	43394.	3988.8
Stddev	2.5	5.3	229.	24.3
%RSD	.08757	.07149	.52838	.61024
#1	2869.2	7411.1	43229.	3978.6
#2	2873.9	7421.0	43298.	4016.6
#3	2873.1	7412.8	43656.	3971.3

Zoom In
Zoom Out

Sample Name: FA23271-7F Acquired: 4/6/2015 15:42:27 Type: Unk
Method: 60102007_041712(v218) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	-.0004	.1208	.0004	.0021	.0000	20.74	.0000	.0000	.0007	-.0003
Stddev	.0002	.0060	.0002	.0001	.000	.04	.0000	.000	.0002	.0002
%RSD	40.78	4.963	53.45	3.441	341.2	.2021	368.8	60.59	22.64	57.22
#1	-.0004	.1269	.0004	.0021	.0001	20.79	.0000	-.0001	.0008	-.0002
#2	-.0003	.1208	.0006	.0020	-.0001	20.71	.0000	.0000	.0008	-.0002
#3	-.0007	.1149	.0002	.0020	-.0001	20.74	.0000	.0000	.0005	-.0005

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	.1652	.8200	5.181	.0143	.0034	4.863	.0000	.0007	.0011	-.0012
Stddev	.0015	.0349	.053	.0000	.0002	.016	.000	.0004	.0014	.0012
%RSD	.9338	4.255	1.015	.0680	4.466	.3297	1636.	66.57	118.5	97.48
#1	.1670	.8170	5.241	.0144	.0035	4.881	-.0001	.0002	.0026	-.0004
#2	.1645	.8563	5.150	.0143	.0034	4.852	.0002	.0010	.0010	-.0026
#3	.1642	.7867	5.150	.0143	.0032	4.854	-.0001	.0008	-.0001	-.0006

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	.3317	.0001	.2737	.0053	-.0005	.0002	.0053
Stddev	.0009	.0001	.0009	.0003	.0001	.0002	.0001
%RSD	.2603	84.01	.3170	6.208	22.63	125.3	.9591
#1	.3320	.0002	.2747	.0051	-.0006	-.0001	.0054
#2	.3323	.0000	.2731	.0051	-.0005	.0003	.0053
#3	.3307	.0001	.2732	.0057	-.0004	.0003	.0053

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	2911.4	7477.1	44047.	3993.1
Stddev	2.7	11.4	47.	9.4
%RSD	.09153	.15202	.10765	.23425
#1	2914.5	7487.3	44021.	3986.2
#2	2910.3	7464.9	44019.	3989.4
#3	2909.5	7479.2	44102.	4003.8

Zoom In
Zoom Out

Sample Name: FA23271-8F Acquired: 4/6/2015 15:46:38 Type: Unk
Method: 60102007_041712(v218) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	-.0007	.0534	-.0008	.0032	.0000	52.15	.0000	.0000	.0004	-.0002
Stddev	.0003	.0089	.0006	.0001	.0000	.16	.000	.0001	.0001	.0001
%RSD	35.60	16.72	82.90	3.312	211.4	.3036	131.4	498.4	23.74	72.65
#1	-.0006	.0580	-.0009	.0031	.0000	52.08	-.0001	-.0001	.0003	-.0001
#2	-.0005	.0592	-.0013	.0033	.0000	52.33	.0000	.0001	.0005	-.0001
#3	-.0010	.0432	-.0001	.0032	.0001	52.03	.0000	.0000	.0003	-.0004

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	.0438	1.528	12.16	.0032	.0026	10.71	.0000	.0007	.0008	.0006
Stddev	.0020	.028	.07	.0000	.0001	.02	.000	.0002	.0006	.0008
%RSD	4.610	1.835	.6024	1.219	2.715	.1586	316.8	36.48	74.63	136.9
#1	.0458	1.548	12.17	.0032	.0027	10.71	.0000	.0009	.0008	.0013
#2	.0437	1.541	12.23	.0032	.0026	10.73	.0000	.0007	.0015	.0008
#3	.0418	1.496	12.08	.0031	.0025	10.70	.0000	.0004	.0002	-.0003

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	.7379	.0002	.8213	.0017	.0000	.0008	.0047
Stddev	.0002	.0002	.0015	.0001	.0007	.0002	.0000
%RSD	.0297	114.7	.1777	3.026	9657.	24.44	1.039
#1	.7379	.0000	.8206	.0016	.0007	.0010	.0047
#2	.7377	.0001	.8230	.0017	.0001	.0006	.0046
#3	.7381	.0004	.8203	.0016	-.0007	.0009	.0047

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	2809.9	7310.7	42733.	3944.9
Stddev	2.9	11.8	131.	30.9
%RSD	.10237	.16132	.30748	.78260
#1	2812.5	7314.0	42879.	3940.9
#2	2810.3	7320.6	42625.	3916.2
#3	2806.8	7297.7	42695.	3977.5

Zoom In
Zoom Out

Sample Name: FA23271-13F Acquired: 4/6/2015 15:50:49 Type: Unk
Method: 60102007_041712(v218) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	-.0006	.0403	.0002	.0034	.0000	27.49	.0000	.0001	.0005	-.0002
Stddev	.0003	.0073	.0003	.0002	.000	.05	.000	.0001	.0001	.0001
%RSD	48.94	18.22	117.5	4.935	597.7	.1938	102.4	188.1	13.89	64.91
#1	-.0008	.0332	.0001	.0036	.0000	27.52	.0000	-.0001	.0006	-.0003
#2	-.0005	.0479	.0005	.0034	-.0001	27.52	.0000	.0001	.0005	-.0001
#3	-.0003	.0398	.0001	.0033	.0001	27.42	.0000	.0001	.0004	-.0001

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	.1500	.6111	5.327	.0280	.0040	4.946	.0000	.0004	.0005	-.0006
Stddev	.0024	.0393	.025	.0001	.0001	.007	.0000	.0004	.0001	.0015
%RSD	1.619	6.432	.4763	.4897	2.148	.1522	112.0	97.68	25.06	261.2
#1	.1480	.6559	5.313	.0281	.0039	4.951	.0001	.0000	.0004	.0011
#2	.1493	.5824	5.356	.0279	.0041	4.937	.0000	.0004	.0005	-.0009
#3	.1528	.5950	5.311	.0279	.0040	4.950	.0000	.0007	.0007	-.0019

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	.7116	.0157	.4583	.0011	-.0004	.0001	.0057
Stddev	.0009	.0003	.0003	.0001	.0001	.0001	.0000
%RSD	.1266	1.942	.0760	6.829	23.22	106.9	.4756
#1	.7125	.0155	.4580	.0010	-.0003	.0002	.0056
#2	.7107	.0155	.4587	.0011	-.0005	.0000	.0057
#3	.7116	.0160	.4582	.0012	-.0004	.0000	.0057

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	2887.4	7437.9	43472.	3954.5
Stddev	4.7	8.2	90.	32.1
%RSD	.16195	.11020	.20700	.81187
#1	2890.5	7445.8	43386.	3930.3
#2	2882.0	7429.4	43466.	3942.2
#3	2889.6	7438.5	43565.	3990.9

Zoom In
Zoom Out

Sample Name: FA23298-1 Acquired: 4/6/2015 15:55:01 Type: Unk
Method: 60102007_041712(v218) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	-.0005	17.53	.0076	.0263	.0004	44.39	.0000	.0007	.0140	.0018
Stddev	.0003	.11	.0006	.0004	.0000	.27	.0000	.0001	.0001	.0001
%RSD	51.96	.6052	7.269	1.560	11.00	.6001	709.7	7.715	.7664	7.359
#1	-.0005	17.59	.0073	.0267	.0004	44.63	.0000	.0007	.0141	.0019
#2	-.0008	17.41	.0082	.0262	.0004	44.10	.0000	.0006	.0141	.0017
#3	-.0002	17.59	.0072	.0259	.0004	44.45	.0000	.0007	.0139	.0019

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	12.04	2.082	2.516	.1029	.0008	4.657	.0072	.0099	.0002	.0015
Stddev	.08	.030	.029	.0008	.0001	.027	.0002	.0008	.0004	.0014
%RSD	.6426	1.458	1.147	.7902	8.735	.5742	2.109	7.550	230.5	95.67
#1	12.13	2.117	2.532	.1038	.0008	4.687	.0074	.0091	-.0002	.0006
#2	11.98	2.067	2.534	.1025	.0009	4.638	.0072	.0104	.0007	.0007
#3	12.03	2.063	2.483	.1023	.0009	4.645	.0071	.0104	.0001	.0031

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	17.73	.0003	.1789	.0225	-.0003	.0114	.0153
Stddev	.02	.0001	.0012	.0001	.0001	.0001	.0000
%RSD	.0943	29.77	.6576	.6159	32.08	1.051	.0445
#1	17.72	.0004	.1801	.0226	-.0003	.0115	.0153
#2	17.73	.0003	.1778	.0224	-.0004	.0112	.0154
#3	17.75	.0002	.1788	.0224	-.0002	.0114	.0153

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	2833.7	7583.9	43949.	4076.3
Stddev	1.5	3.8	244.	24.8
%RSD	.05280	.05069	.55460	.60919
#1	2832.0	7580.5	43695.	4048.6
#2	2834.2	7583.0	44182.	4096.5
#3	2834.8	7588.1	43969.	4083.8

Zoom In Zoom Out

Sample Name: FA23298-2 Acquired: 4/6/2015 15:59:08 Type: Unk
Method: 60102007_041712(v218) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	-.0006	1.209	.0010	.0139	.0000	62.34	-.0001	-.0001	.0038	-.0002
Stddev	.0005	.001	.0001	.0001	.000	.22	.0000	.0000	.0001	.0002
%RSD	92.42	.1187	13.12	1.005	411.5	.3464	41.35	48.47	3.477	111.3
#1	-.0007	1.209	.0009	.0140	-.0001	62.59	-.0001	-.0001	.0040	-.0003
#2	.0000	1.208	.0011	.0138	-.0001	62.21	.0000	.0000	.0038	.0001
#3	-.0010	1.211	.0009	.0140	.0001	62.22	.0000	.0000	.0038	-.0004

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	9.172	2.533	5.053	.1709	.0002	3.071	.0015	.0010	.0009	.0003
Stddev	.031	.021	.011	.0001	.0000	.010	.0001	.0003	.0004	.0011
%RSD	.3361	.8144	.2191	.0816	18.32	.3325	8.249	28.43	50.16	353.0
#1	9.208	2.554	5.041	.1710	.0002	3.083	.0016	.0007	.0008	-.0010
#2	9.150	2.513	5.063	.1708	.0002	3.065	.0014	.0011	.0013	.0011
#3	9.160	2.531	5.055	.1710	.0001	3.065	.0016	.0012	.0004	.0008

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	4.571	.0002	.2809	.0874	-.0001	.0022	.0082
Stddev	.014	.0002	.0006	.0062	.0004	.0000	.0001
%RSD	.3117	109.1	.2054	7.100	240.0	1.585	.9519
#1	4.555	.0000	.2815	.0900	-.0002	.0023	.0082
#2	4.583	.0004	.2804	.0803	.0002	.0023	.0081
#3	4.575	.0001	.2809	.0919	-.0005	.0022	.0082

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	2840.6	7382.6	43164.	3989.4
Stddev	4.8	12.0	77.	30.8
%RSD	.17040	.16283	.17950	.77327
#1	2845.5	7392.0	43156.	3954.7
#2	2840.6	7386.8	43090.	4000.0
#3	2835.8	7369.1	43245.	4013.7

Zoom In Zoom Out

Sample Name: FA23147-2 Acquired: 4/6/2015 16:03:16 Type: Unk
Method: 60102007_041712(v218) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	-.0006	3.534	.0059	.1439	.0001	65.24	.0011	.0044	.0041	.0050
Stddev	.0003	.017	.0004	.0006	.0000	.50	.0000	.0001	.0004	.0003
%RSD	55.56	.4661	6.614	.4038	29.17	.7739	1.704	2.349	9.024	5.957
#1	-.0004	3.550	.0061	.1443	.0001	65.78	.0010	.0045	.0043	.0054
#2	-.0010	3.534	.0061	.1441	.0001	65.18	.0011	.0043	.0043	.0049
#3	-.0005	3.517	.0054	.1432	.0001	64.77	.0011	.0043	.0036	.0048

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	22.83	3.391	25.10	3.838	.0016	29.28	.0013	.1411	.0008	.0004
Stddev	.16	.022	.17	.011	.0002	.21	.0001	.0003	.0005	.0012
%RSD	.6872	.6530	.6577	.2948	10.65	.7005	4.033	.2421	68.62	324.2
#1	22.98	3.411	25.27	3.830	.0018	29.50	.0013	.1407	.0011	.0015
#2	22.84	3.396	25.08	3.851	.0014	29.25	.0013	.1414	.0002	-.0009
#3	22.67	3.367	24.94	3.834	.0015	29.10	.0012	.1411	.0011	.0005

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	10.80	.0004	.2839	.1871	.0007	.0103	.0360
Stddev	.02	.0002	.0022	.0061	.0005	.0002	.0001
%RSD	.1801	47.66	.7894	3.245	81.49	1.867	.1862
#1	10.78	.0007	.2863	.1812	.0007	.0102	.0360
#2	10.79	.0003	.2837	.1869	.0012	.0105	.0361
#3	10.82	.0004	.2818	.1933	.0001	.0102	.0360

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	2705.3	7352.5	42486.	3933.8
Stddev	4.5	9.0	117.	46.3
%RSD	.16665	.12193	.27603	1.1768
#1	2700.2	7342.2	42621.	3881.2
#2	2706.8	7357.1	42411.	3952.0
#3	2708.8	7358.3	42427.	3968.3

Zoom In Zoom Out

Sample Name: CCV Acquired: 4/6/2015 16:07:31 Type: QC
Method: 60102007_041712(v218) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2517	41.94	1.925	2.022	2.067	42.04	2.013	2.007	2.106	2.039
Stddev	.0007	.23	.002	.006	.008	.23	.001	.000	.003	.006
%RSD	.2738	.5572	.0900	.3173	.3854	.5376	.0517	.0203	.1300	.2864
#1	.2514	41.67	1.925	2.017	2.058	41.80	2.015	2.006	2.108	2.036
#2	.2525	42.11	1.924	2.029	2.072	42.24	2.013	2.007	2.107	2.046
#3	.2512	42.04	1.927	2.021	2.071	42.09	2.013	2.007	2.103	2.036
Check ?	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass
Value																				
Range																				

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	41.88	40.68	40.50	2.060	1.987	42.16	1.963	1.991	1.951	1.938
Stddev	.20	.17	.14	.016	.006	.21	.001	.002	.001	.002
%RSD	.4839	.4171	.3486	.7958	.3264	.5091	.0557	.0954	.0654	.0839
#1	41.67	40.48	40.36	2.078	1.980	41.92	1.962	1.993	1.952	1.936
#2	42.08	40.77	40.52	2.047	1.987	42.33	1.963	1.989	1.951	1.938
#3	41.87	40.77	40.64	2.054	1.993	42.24	1.964	1.991	1.950	1.939
Check ?	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass
Value																				
Range																				

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.194	1.934	2.074	2.088	2.019	2.010	1.995
Stddev	.001	.000	.008	.005	.002	.003	.002
%RSD	.0280	.0127	.3883	.2397	.0877	.1620	.0811
#1	2.193	1.933	2.065	2.090	2.017	2.009	1.997
#2	2.194	1.933	2.079	2.091	2.021	2.007	1.994
#3	2.194	1.934	2.079	2.082	2.019	2.013	1.994
Check ?	None	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass
Value								
Range								

Zoom In Zoom Out

Sample Name: CCV Acquired: 4/6/2015 16:07:31 Type: QC
Method: 60102007_041712(v218) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2555.1	7161.8	41626.	3871.5
Stddev	3.2	8.0	112.	26.9
%RSD	.12579	.11108	.26824	.69579
#1	2552.8	7153.8	41504.	3901.9
#2	2558.8	7169.7	41724.	3850.8
#3	2553.8	7161.7	41648.	3861.6

Zoom In Zoom Out

Sample Name: CCB Acquired: 4/6/2015 16:11:36 Type: QC
Method: 60102007_041712(v218) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0002	.0025	.0008	.0002	.0002	.0086	.0003	.0004	.0003
Stddev	.0001	.0060	.0001	.0002	.0001	.0038	.0001	.0001	.0001
%RSD	43.07	238.6	12.80	137.2	39.80	44.41	28.13	12.47	28.50
#1	-.0003	-.0040	.0008	.0004	.0002	.0129	.0002	.0004	.0004
#2	-.0003	.0038	.0008	-.0001	.0001	.0076	.0004	.0005	.0003
#3	-.0001	.0077	.0007	.0002	.0003	.0054	.0004	.0004	.0003
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000	.0441	.0508	-.0176	.0002	F.0043	.0245	.0005	.0008
Stddev	.000	.0104	.0088	.0085	.0000	.0012	.0070	.0001	.0008
%RSD	1132.	23.57	17.41	48.21	6.064	28.11	28.65	28.43	103.7
#1	.0002	.0560	.0610	-.0104	.0002	.0055	.0294	.0003	.0000
#2	-.0002	.0393	.0458	-.0155	.0002	.0042	.0164	.0005	.0017
#3	.0000	.0370	.0456	-.0270	.0002	.0031	.0275	.0006	.0007
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit						.0010			
Low Limit						-.0010			

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F.0024	-.0008	.0022	F.0011	.0003	.0019	.0009	.0001	.0004
Stddev	.0001	.0010	.0010	.0002	.0001	.0001	.0008	.0003	.0001
%RSD	4.152	122.2	45.10	15.85	32.85	7.892	93.05	228.8	17.17
#1	.0024	.0003	.0032	.0011	.0002	.0019	.0000	.0004	.0003
#2	.0023	-.0010	.0021	.0013	.0003	.0020	.0015	.0001	.0004
#3	.0025	-.0017	.0013	.0009	.0003	.0017	.0012	-.0001	.0005
Check ?	Chk Fail	Chk Pass	None	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	.0020			.0010					
Low Limit	-.0020			-.0010					

Zoom In Zoom Out

Sample Name: CCB Acquired: 4/6/2015 16:11:36 Type: QC
Method: 60102007_041712(v218) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3041.1	7527.5	43959.	3951.0
Stddev	2.4	7.3	360.	11.6
%RSD	.07785	.09652	.81951	.29335
#1	3038.4	7528.2	43584.	3940.3
#2	3042.8	7534.4	43992.	3949.2
#3	3041.9	7519.9	44302.	3963.3

Zoom In Zoom Out

Sample Name: FA23147-6 Acquired: 4/6/2015 16:15:49 Type: Unk
Method: 60102007_041712(v218) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	-.0004	1.615	.0069	.2072	.0001	39.79	.0002	.0301	.0024	.0020
Stddev	.0002	.017	.0008	.0007	.0000	.19	.0000	.0000	.0003	.0001
%RSD	53.59	1.069	12.24	.3176	50.59	.4875	20.61	.1636	12.83	4.811
#1	-.0003	1.635	.0073	.2080	.0001	40.00	.0002	.0301	.0026	.0019
#2	-.0003	1.608	.0075	.2069	.0001	39.62	.0002	.0301	.0026	.0020
#3	-.0007	1.602	.0060	.2068	.0000	39.74	.0002	.0300	.0020	.0021

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	22.51	6.365	13.01	2.791	.0024	33.52	.0039	.0060	.0002	-.0001
Stddev	.09	.030	.07	.014	.0002	.16	.0001	.0003	.0012	.0013
%RSD	.3946	.4778	.5007	.4933	6.238	.4693	1.746	5.360	615.3	1142.
#1	22.62	6.400	13.08	2.776	.0026	33.70	.0039	.0061	-.0006	-.0015
#2	22.45	6.354	12.95	2.795	.0023	33.41	.0040	.0063	.0016	.0000
#3	22.48	6.342	13.01	2.803	.0023	33.46	.0039	.0057	-.0004	.0011

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	9.169	.0003	.2256	.1002	.0011	.0072	.0141
Stddev	.010	.0002	.0015	.0015	.0004	.0001	.0000
%RSD	.1114	64.17	.6471	1.480	38.06	1.799	.2596
#1	9.173	.0001	.2273	.1019	.0008	.0071	.0141
#2	9.158	.0005	.2245	.0991	.0016	.0071	.0141
#3	9.177	.0003	.2251	.0996	.0010	.0073	.0140

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	2743.8	7351.7	42858.	3998.4
Stddev	1.1	2.2	50.	6.0
%RSD	.04075	.02956	.11623	.14922
#1	2743.0	7349.3	42815.	3993.0
#2	2743.4	7352.2	42913.	3997.5
#3	2745.1	7353.6	42848.	4004.8

Zoom In Zoom Out

Sample Name: FA23147-7 Acquired: 4/6/2015 16:20:04 Type: Unk
Method: 60102007_041712(v218) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)
Avg	-.0006	12.44	.0051	.2336	.0007	46.76	-.0001	.0049	.0064
Stddev	.0002	.05	.0004	.0014	.0001	.16	.0001	.0001	.0002
%RSD	24.82	.4187	7.913	.5938	15.62	.3416	73.33	1.743	3.531
#1	-.0005	12.44	.0047	.2322	.0006	46.67	-.0001	.0048	.0067
#2	-.0007	12.38	.0055	.2335	.0008	46.66	.0000	.0049	.0063
#3	-.0008	12.49	.0052	.2350	.0006	46.94	-.0002	.0050	.0063

Elem	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
IS Ref	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)
Avg	.0368	48.78	6.107	24.45	F4.426	.0022	26.19	.0031	.0076
Stddev	.0004	.26	.017	.02	.009	.0000	.12	.0001	.0008
%RSD	.9582	.5317	.2813	.0638	.2141	1.435	.4528	2.989	11.18
#1	.0364	48.62	6.103	24.44	4.432	.0022	26.14	.0032	.0068
#2	.0371	48.63	6.093	24.47	4.431	.0021	26.11	.0030	.0075
#3	.0369	49.08	6.126	24.44	4.415	.0022	26.33	.0032	.0085

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	-.0010	.0000	21.11	.0009	.2567	.8517	.0007	.0400	.0691
Stddev	.0004	.0011	.02	.0002	.0016	.0006	.0003	.0002	.0000
%RSD	37.37	150400.	.0726	24.72	.6095	.0717	42.14	.5003	.0049
#1	-.0006	.0012	21.09	.0009	.2559	.8524	.0009	.0402	.0691
#2	-.0014	-.0010	21.12	.0006	.2558	.8516	.0009	.0398	.0691
#3	-.0009	-.0002	21.11	.0011	.2585	.8512	.0004	.0399	.0691

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	2701.4	7629.5	43894.	4095.4
Stddev	7.6	12.9	133.	10.5
%RSD	.28023	.16877	.30236	.25564
#1	2693.0	7616.4	43747.	4107.4
#2	2707.7	7629.9	44006.	4087.9
#3	2703.5	7642.2	43929.	4091.0

Zoom In Zoom Out

Sample Name: FA23147-9 Acquired: 4/6/2015 16:24:17 Type: Unk
Method: 60102007_041712(v218) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)
Avg	.0002	6.992	.0117	.3256	.0003	40.29	.0024	.0160	.0189
Stddev	.0003	.031	.0002	.0016	.0000	.15	.0000	.0001	.0002
%RSD	115.6	.4463	1.851	.5004	7.838	.3769	.9561	.5981	1.065
#1	-.0001	7.006	.0120	.3269	.0003	40.44	.0024	.0160	.0187
#2	.0004	6.956	.0117	.3238	.0003	40.14	.0024	.0159	.0189
#3	.0004	7.014	.0116	.3260	.0003	40.30	.0024	.0160	.0191

Elem	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
IS Ref	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)
Avg	.0257	46.13	9.126	15.47	F4.417	.0013	47.75	.0092	.0558
Stddev	.0003	.12	.032	.02	.009	.0001	.15	.0002	.0008
%RSD	1.207	.2538	.3448	.1593	.2051	9.239	.3233	1.967	1.521
#1	.0259	46.23	9.126	15.50	4.415	.0014	47.90	.0093	.0548
#2	.0253	46.00	9.157	15.46	4.427	.0012	47.59	.0092	.0561
#3	.0257	46.15	9.094	15.46	4.409	.0014	47.74	.0090	.0564

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	.0003	.0016	13.24	.0018	.3559	.4367	.0013	.0338	.0788
Stddev	.0005	.0006	.01	.0003	.0011	.0005	.0002	.0002	.0001
%RSD	159.2	38.70	.1113	16.76	.3106	.1212	13.30	.5874	.1738
#1	.0001	.0010	13.24	.0016	.3570	.4373	.0011	.0340	.0789
#2	.0000	.0022	13.24	.0016	.3548	.4364	.0014	.0338	.0787
#3	.0010	.0015	13.26	.0021	.3560	.4365	.0013	.0336	.0790

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	2706.4	7470.1	43284.	4009.8
Stddev	3.1	9.0	109.	32.7
%RSD	.11294	.12090	.25077	.81673
#1	2707.3	7470.9	43399.	3983.8
#2	2708.9	7478.6	43183.	4046.6
#3	2703.0	7460.6	43271.	3999.0

Zoom In Zoom Out

Sample Name: MP28760-MB2A Acquired: 4/6/2015 16:28:31 Type: QC
Method: 60102007_041712(v218) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0007	-.0058	-.0004	.0002	-.0001	.0487	.0000	-.0001	.0002	-.0001
Stddev	.0002	.0067	.0002	.0001	.0001	.0022	.000	.0000	.0002	.0002
%RSD	26.71	116.2	40.96	70.01	73.48	4.544	150.2	56.04	138.0	161.2
#1	-.0007	-.0052	-.0002	.0002	.0000	.0492	.0000	-.0001	-.0001	-.0003
#2	-.0009	.0006	-.0004	.0004	-.0001	.0506	-.0001	-.0001	.0002	-.0001
#3	-.0005	-.0127	-.0005	.0001	-.0001	.0463	.0000	.0000	.0004	.0001
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0331	.0365	-.0058	.0002	.0000	.0360	-.0002	.0004	.0007	.0000
Stddev	.0114	.0057	.0170	.0001	.0001	.0106	.0001	.0002	.0007	.0006
%RSD	34.58	15.51	293.5	23.76	748.9	29.34	76.77	59.86	101.0	1348.
#1	.0456	.0431	-.0255	.0003	.0001	.0446	-.0001	.0006	.0002	.0001
#2	.0305	.0330	.0030	.0003	.0000	.0242	-.0001	.0002	.0014	-.0006
#3	.0231	.0335	.0050	.0002	-.0001	.0391	-.0003	.0003	.0004	.0006
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0234	.0003	.0001	.0003	-.0009	.0000	.0080
Stddev	.0003	.0002	.0001	.0001	.0001	.0002	.0000
%RSD	1.278	58.20	71.04	15.94	6.697	701.0	.3332
#1	.0233	.0001	.0001	.0004	-.0009	-.0002	.0080
#2	.0237	.0005	.0000	.0003	-.0010	.0001	.0080
#3	.0232	.0003	.0001	.0004	-.0010	.0002	.0080
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Zoom In Zoom Out

Sample Name: MP28760-MB2A Acquired: 4/6/2015 16:28:31 Type: QC
Method: 60102007_041712(v218) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3054.6	7586.9	44268.	3934.0
Stddev	1.1	6.0	193.	15.5
%RSD	.03759	.07958	.43691	.39415
#1	3055.3	7583.1	44178.	3924.6
#2	3053.2	7583.8	44135.	3925.5
#3	3055.2	7593.9	44489.	3951.9

Zoom In Zoom Out

Sample Name: MP28761-MB1 Acquired: 4/6/2015 16:32:45 Type: QC
Method: 60102007_041712(v218) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0007	.0093	-.0009	.0001	-.0001	.0600	.0000	-.0001	.0008	.0001
Stddev	.0004	.0073	.0004	.0001	.0000	.0045	.000	.0001	.0001	.0001
%RSD	59.24	78.25	46.07	145.3	24.99	7.557	543.2	74.38	11.60	107.9
#1	-.0004	.0144	-.0007	.0002	-.0001	.0638	.0000	-.0002	.0007	.0000
#2	-.0012	.0125	-.0013	.0000	-.0001	.0612	.0000	.0000	.0008	.0001
#3	-.0005	.0010	-.0006	.0000	-.0001	.0550	.0000	-.0001	.0008	.0000
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0385	.0303	.0227	.0003	.0000	.0194	.0002	.0007	.0009	-.0001
Stddev	.0021	.0133	.0216	.0000	.000	.0067	.0001	.0006	.0001	.0007
%RSD	5.507	43.70	95.20	10.99	1548.	34.55	34.82	90.46	12.69	1129.
#1	.0369	.0222	.0388	.0003	.0001	.0117	.0001	.0010	.0011	.0007
#2	.0376	.0456	-.0019	.0003	.0000	.0235	.0003	.0011	.0009	-.0004
#3	.0409	.0232	.0311	.0004	-.0001	.0232	.0002	.0000	.0008	-.0005
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0145	.0220	.0003	.0005	-.0010	-.0001	.0029
Stddev	.0007	.0002	.0001	.0000	.0002	.0001	.0000
%RSD	4.920	1.000	24.84	3.878	18.61	84.20	1.065
#1	.0145	.0219	.0003	.0005	-.0008	-.0001	.0029
#2	.0152	.0220	.0002	.0005	-.0012	-.0001	.0029
#3	.0138	.0223	.0003	.0005	-.0010	-.0003	.0029
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Zoom In
Zoom Out

Sample Name: MP28761-MB1 Acquired: 4/6/2015 16:32:45 Type: QC
Method: 60102007_041712(v218) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3080.9	7630.7	44914.	3953.5
Stddev	2.7	4.6	83.	34.4
%RSD	.08762	.05994	.18568	.87018
#1	3080.0	7625.4	44825.	3920.0
#2	3078.7	7632.7	44991.	3951.8
#3	3083.9	7633.9	44927.	3988.8

Zoom In
Zoom Out

Sample Name: MP28761-B1 Acquired: 4/6/2015 16:36:58 Type: QC
Method: 60102007_041712(v218) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0481	28.64	1.906	2.074	.0539	26.84	.0499	.5073	.2211	.2647
Stddev	.0004	.07	.001	.010	.0003	.04	.0001	.0003	.0010	.0020
%RSD	.7782	.2271	.0686	.4961	.4667	.1387	.1870	.0597	.4575	.7708
#1	.0484	28.71	1.908	2.083	.0540	26.88	.0498	.5073	.2219	.2670
#2	.0482	28.58	1.905	2.063	.0536	26.82	.0498	.5071	.2200	.2633
#3	.0477	28.62	1.906	2.078	.0540	26.82	.0500	.5077	.2215	.2637
Check ?	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass
Value										
Range										

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	27.25	25.62	25.26	.5298	.4875	26.78	.4999	.4885	.4795	1.898
Stddev	.13	.02	.08	.0011	.0003	.07	.0006	.0008	.0013	.004
%RSD	.4849	.0947	.3198	.2077	.0639	.2644	.1187	.1649	.2724	.1900
#1	27.38	25.65	25.34	.5310	.4874	26.85	.5004	.4877	.4781	1.902
#2	27.12	25.61	25.18	.5289	.4873	26.71	.4993	.4884	.4805	1.895
#3	27.24	25.61	25.27	.5294	.4879	26.77	.5000	.4893	.4800	1.896
Check ?	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass
Value										
Range										

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0164	.5004	.5152	.5169	1.971	.4906	.5021
Stddev	.0003	.0009	.0014	.0015	.002	.0012	.0010
%RSD	1.886	.1851	.2645	.2986	.0911	.2382	.1908
#1	.0164	.5014	.5168	.5187	1.970	.4920	.5020
#2	.0168	.4999	.5142	.5160	1.971	.4900	.5012
#3	.0161	.4997	.5147	.5161	1.973	.4899	.5031
Check ?	None	Chk	Pass	None	None	Chk	Pass
Value							
Range							

Zoom In
Zoom Out

Sample Name: MP28761-B1 Acquired: 4/6/2015 16:36:58 Type: QC
Method: 60102007_041712(v218) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2703.6	7370.6	42240.	3903.3
Stddev	2.9	11.6	115.	22.2
%RSD	.10822	.15762	.27307	.56845
#1	2700.5	7357.2	42222.	3886.4
#2	2706.3	7377.8	42363.	3895.0
#3	2703.9	7376.8	42135.	3928.4

Zoom In
Zoom Out

Sample Name: FA23271-1 Acquired: 4/6/2015 16:40:55 Type: Unk
Method: 60102007_041712(v218) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	-.0010	38.76	.0098	.0846	.0007	4.491	-.0001	.0018	.0594	.0077
Stddev	.0002	.16	.0007	.0005	.0001	.021	.0001	.0001	.0004	.0002
%RSD	17.59	.4208	6.670	.5581	13.23	.4619	56.47	3.044	.6946	2.392
#1	-.0009	38.95	.0094	.0850	.0007	4.514	-.0001	.0018	.0593	.0079
#2	-.0013	38.69	.0105	.0846	.0006	4.485	.0000	.0018	.0590	.0077
#3	-.0010	38.64	.0094	.0841	.0007	4.474	-.0001	.0017	.0598	.0075

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	14.73	.5615	1.659	.1898	.0014	.1394	.0120	.0606	.0010	-.0003
Stddev	.06	.0048	.026	.0009	.0001	.0074	.0002	.0003	.0007	.0001
%RSD	.4367	.8632	1.591	.4674	6.347	5.332	1.816	.4176	71.97	54.63
#1	14.81	.5634	1.685	.1893	.0015	.1312	.0119	.0608	.0018	-.0001
#2	14.70	.5560	1.632	.1892	.0013	.1413	.0118	.0603	.0006	-.0003
#3	14.69	.5652	1.658	.1908	.0013	.1457	.0122	.0607	.0005	-.0004

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	1.079	.0189	.1302	1.080	-.0018	.0278	.0210
Stddev	.001	.0002	.0005	.003	.0006	.0004	.0001
%RSD	.0658	1.034	.4199	.2708	31.16	1.484	.3646
#1	1.079	.0190	.1309	1.078	-.0016	.0273	.0210
#2	1.080	.0186	.1300	1.078	-.0014	.0280	.0209
#3	1.079	.0190	.1299	1.083	-.0025	.0281	.0210

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	2911.0	8322.9	47587.	4308.4
Stddev	6.4	15.6	223.	40.5
%RSD	.21925	.18768	.46917	.93910
#1	2905.9	8307.8	47506.	4261.9
#2	2918.2	8339.0	47839.	4328.0
#3	2908.9	8321.8	47416.	4335.3

Zoom In Zoom Out

Sample Name: MP28761-D1 Acquired: 4/6/2015 16:45:00 Type: Unk
Method: 60102007_041712(v218) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	-.0013	33.68	.0082	.0732	.0006	3.859	-.0001	.0016	.0514	.0076
Stddev	.0002	.03	.0008	.0003	.0001	.003	.0000	.0000	.0002	.0001
%RSD	12.48	.0799	10.17	.4527	20.71	.0731	11.65	1.806	.4137	1.599
#1	-.0014	33.65	.0090	.0736	.0007	3.862	-.0001	.0016	.0515	.0077
#2	-.0011	33.70	.0074	.0731	.0005	3.857	-.0001	.0016	.0511	.0077
#3	-.0013	33.68	.0081	.0730	.0005	3.857	-.0001	.0017	.0515	.0075

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	12.82	.4957	1.444	.1604	.0011	.1125	.0104	.0506	-.0006	.0004
Stddev	.02	.0172	.022	.0008	.0001	.0054	.0000	.0001	.0003	.0004
%RSD	.1657	3.460	1.499	.4737	12.00	4.758	.4148	.1597	62.38	105.5
#1	12.83	.4853	1.421	.1609	.0011	.1173	.0104	.0507	-.0006	.0002
#2	12.80	.4863	1.445	.1596	.0010	.1135	.0104	.0506	-.0002	.0001
#3	12.84	.5155	1.465	.1608	.0012	.1067	.0103	.0505	-.0009	.0009

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	.9695	.0191	.1128	.8592	-.0018	.0244	.0182
Stddev	.0016	.0001	.0003	.0029	.0005	.0003	.0001
%RSD	.1678	.6486	.2337	.3349	31.03	1.299	.5129
#1	.9714	.0190	.1131	.8617	-.0012	.0247	.0182
#2	.9690	.0192	.1127	.8561	-.0022	.0241	.0182
#3	.9682	.0193	.1126	.8599	-.0019	.0243	.0183

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	2936.6	8239.9	47468.	4275.6
Stddev	3.4	3.5	198.	13.1
%RSD	.11439	.04206	.41658	.30678
#1	2933.4	8237.8	47269.	4276.1
#2	2940.1	8237.9	47665.	4288.4
#3	2936.2	8243.9	47470.	4262.2

Zoom In Zoom Out

Sample Name: MP28761-SD1 Acquired: 4/6/2015 16:49:05 Type: Unk
Method: 60102007_041712(v218) Mode: CONC Corr. Factor: 5.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	-.0036	42.63	.0107	.0945	.0006	5.723	-.0002	.0022	.0647	.0082
Stddev	.0009	.15	.0034	.0014	.0002	.026	.0002	.0002	.0017	.0012
%RSD	26.63	.3600	31.57	1.470	35.52	.4521	150.9	7.223	2.648	14.91
#1	-.0044	42.73	.0077	.0956	.0005	5.746	.0000	.0020	.0654	.0095
#2	-.0025	42.70	.0143	.0950	.0004	5.728	-.0004	.0021	.0660	.0071
#3	-.0037	42.45	.0099	.0930	.0008	5.695	.0000	.0023	.0628	.0080

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	16.06	.8839	1.747	.2091	.0008	.5085	.0130	.0606	-.0025	-.0019
Stddev	.09	.0524	.113	.0014	.0005	.0348	.0005	.0024	.0018	.0058
%RSD	.5800	5.925	6.445	.6789	60.94	6.850	4.079	3.982	70.00	303.9
#1	16.04	.9350	1.834	.2091	.0008	.5344	.0126	.0634	-.0045	.0033
#2	16.17	.8303	1.787	.2106	.0003	.5222	.0136	.0593	-.0014	-.0009
#3	15.98	.8865	1.620	.2077	.0012	.4689	.0127	.0591	-.0015	-.0081

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	1.161	.0209	.1434	1.147	.0000	.0287	.0280
Stddev	.002	.0003	.0002	.008	.0020	.0010	.0003
%RSD	.1887	1.560	.1595	.6702	6264.	3.473	1.032
#1	1.162	.0206	.1433	1.152	.0023	.0297	.0281
#2	1.158	.0207	.1437	1.151	-.0014	.0277	.0283
#3	1.162	.0212	.1433	1.138	-.0008	.0285	.0277

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	3012.7	7795.1	44899.	4031.7
Stddev	3.2	4.3	319.	22.2
%RSD	.10691	.05544	.71054	.55143
#1	3016.4	7791.3	45053.	4013.0
#2	3010.7	7794.2	44532.	4056.3
#3	3010.9	7799.8	45112.	4025.8

Zoom In Zoom Out

Sample Name: MP28761-PS1 Acquired: 4/6/2015 16:53:14 Type: Unk
Method: 60102007_041712(v218) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	.0431	40.56	.0995	.3232	.0511	9.596	.0475	.0498	.1104	.1076
Stddev	.0004	.10	.0002	.0002	.0001	.049	.0001	.0002	.0005	.0004
%RSD	1.039	.2380	.1641	.0542	.2137	.5117	.1325	.3635	.4634	.3900
#1	.0436	40.60	.0995	.3234	.0511	9.599	.0475	.0499	.1106	.1074
#2	.0427	40.63	.0997	.3233	.0512	9.644	.0474	.0496	.1108	.1081
#3	.0430	40.45	.0994	.3231	.0510	9.546	.0475	.0500	.1099	.1074

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	17.34	9.969	6.146	.2349	.0933	10.58	.1061	.1098	.0900	.0865
Stddev	.04	.044	.039	.0005	.0002	.03	.0001	.0003	.0005	.0006
%RSD	.2372	.4387	.6357	.2329	.2509	.2485	.0581	.2359	.5295	.7169
#1	17.36	10.01	6.103	.2355	.0931	10.57	.1061	.1096	.0904	.0867
#2	17.38	9.967	6.180	.2346	.0934	10.61	.1060	.1101	.0894	.0870
#3	17.30	9.926	6.154	.2345	.0935	10.56	.1061	.1099	.0901	.0858

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	1.019	.0624	.1766	1.152	.1015	.0735	.2563
Stddev	.003	.0005	.0009	.003	.0006	.0003	.0003
%RSD	.2575	.8634	.5372	.2347	.6299	.4077	.1053
#1	1.021	.0630	.1771	1.155	.1022	.0738	.2566
#2	1.016	.0621	.1771	1.153	.1012	.0732	.2562
#3	1.021	.0621	.1755	1.149	.1011	.0735	.2561

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	2798.5	8241.5	46925.	4241.5
Stddev	3.0	11.6	94.	31.7
%RSD	.10772	.14098	.20006	.74809
#1	2795.2	8228.7	46817.	4265.4
#2	2799.5	8251.5	46987.	4205.5
#3	2800.9	8244.3	46972.	4253.6

Zoom In Zoom Out

Sample Name: CCV Acquired: 4/6/2015 16:57:15 Type: QC
Method: 60102007_041712(v218) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2542	42.71	1.907	2.026	2.095	42.82	2.010	2.004	2.141	2.063
Stddev	.0007	.08	.002	.005	.005	.09	.002	.003	.007	.005
%RSD	.2775	.1897	.1267	.2478	.2456	.2060	.1172	.1591	.3232	.2588
#1	.2540	42.73	1.907	2.030	2.096	42.82	2.008	2.001	2.135	2.061
#2	.2537	42.62	1.905	2.020	2.089	42.72	2.012	2.007	2.139	2.059
#3	.2550	42.78	1.910	2.028	2.099	42.90	2.011	2.006	2.148	2.069
Check ?	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass
Value										
Range										

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	42.24	41.14	40.77	2.074	1.978	43.04	1.946	1.992	1.930	1.922
Stddev	.06	.03	.03	.010	.008	.09	.001	.005	.006	.005
%RSD	.1514	.0839	.0759	.4876	.3896	.2073	.0573	.2455	.3294	.2810
#1	42.24	41.12	40.80	2.085	1.969	43.14	1.945	1.988	1.923	1.916
#2	42.17	41.11	40.73	2.068	1.980	42.97	1.948	1.998	1.932	1.925
#3	42.30	41.18	40.77	2.067	1.984	43.01	1.946	1.991	1.935	1.926
Check ?	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass
Value										
Range										

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.174	1.905	2.104	2.118	2.021	2.014	1.989
Stddev	.003	.001	.006	.000	.004	.003	.002
%RSD	.1535	.0402	.2737	.0093	.2130	.1683	.0919
#1	2.171	1.906	2.109	2.118	2.016	2.011	1.989
#2	2.174	1.905	2.097	2.118	2.025	2.014	1.991
#3	2.178	1.904	2.105	2.117	2.021	2.018	1.987
Check ?	None	Chk	Pass	Chk	Pass	Chk	Pass
Value							
Range							

Zoom In
Zoom Out

Sample Name: CCV Acquired: 4/6/2015 16:57:15 Type: QC
Method: 60102007_041712(v218) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2556.3	7192.5	41223.	3796.9
Stddev	8.1	12.4	71.	33.1
%RSD	.31867	.17174	.17189	.87052
#1	2563.1	7201.2	41283.	3835.0
#2	2547.3	7178.4	41241.	3778.9
#3	2558.4	7197.9	41145.	3776.7

Zoom In
Zoom Out

Sample Name: CCB Acquired: 4/6/2015 17:01:22 Type: QC
Method: 60102007_041712(v218) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0007	.0040	.0009	.0004	.0002	.0090	.0002	.0004	.0002
Stddev	.0003	.0139	.0003	.0002	.0000	.0018	.0001	.0001	.0001
%RSD	40.52	345.7	37.71	43.25	18.38	19.59	20.64	14.00	43.61
#1	-.0009	.0084	.0012	.0005	.0002	.0072	.0002	.0003	.0003
#2	-.0006	.0151	.0008	.0004	.0001	.0107	.0002	.0004	.0003
#3	-.0004	-.0115	.0006	.0002	.0002	.0090	.0003	.0005	.0001
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0002	.0403	.0604	-.0160	.0002	F.0044	.0116	.0002	.0004
Stddev	.0002	.0130	.0274	.0045	.0000	.0011	.0007	.0001	.0003
%RSD	72.34	32.33	45.27	28.09	24.52	25.84	6.449	65.51	72.62
#1	.0000	.0544	.0325	-.0181	.0002	.0056	.0112	.0001	.0001
#2	-.0003	.0376	.0871	-.0192	.0002	.0042	.0124	.0003	.0007
#3	-.0004	.0288	.0617	-.0109	.0001	.0033	.0111	.0002	.0005
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit						.0010			
Low Limit						-.0010			

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0019	-.0010	.0011	.0009	.0002	.0018	.0002	-.0001	.0003
Stddev	.0004	.0013	.0003	.0003	.0001	.0002	.0002	.0003	.0001
%RSD	21.57	138.5	26.85	30.96	34.99	12.09	102.2	356.9	31.18
#1	.0023	.0006	.0010	.0012	.0001	.0021	.0000	-.0004	.0002
#2	.0018	-.0018	.0015	.0008	.0002	.0017	.0003	.0002	.0004
#3	.0015	-.0017	.0009	.0006	.0002	.0017	.0002	-.0001	.0004
Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Zoom In
Zoom Out

Sample Name: CCB Acquired: 4/6/2015 17:01:22 Type: QC
Method: 60102007_041712(v218) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3037.3	7543.4	43214.	3868.7
Stddev	9.7	15.5	89.	20.6
%RSD	.31953	.20602	.20617	.53322
#1	3029.4	7542.4	43244.	3846.1
#2	3048.1	7559.4	43114.	3886.5
#3	3034.3	7528.3	43285.	3873.5

Zoom In
Zoom Out

Sample Name: MP28761-S1 Acquired: 4/6/2015 17:05:35 Type: Unk
Method: 60102007_041712(v218) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	.0440	65.22	1.635	2.004	.0508	28.96	.0457	.4655	.2587	.2527
Stddev	.0001	.09	.002	.010	.0001	.02	.0001	.0000	.0003	.0007
%RSD	.2426	.1363	.0903	.4896	.1356	.0651	.1577	.0041	.1126	.2722
#1	.0440	65.22	1.634	2.013	.0507	28.94	.0457	.4655	.2588	.2534
#2	.0441	65.13	1.634	1.994	.0508	28.95	.0458	.4655	.2584	.2520
#3	.0439	65.31	1.637	2.006	.0508	28.98	.0457	.4655	.2589	.2527

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	38.60	24.47	25.06	.6329	.4122	25.13	.4669	.5492	.2197	1.686
Stddev	.10	.05	.04	.0015	.0001	.07	.0009	.0001	.0010	.001
%RSD	.2609	.2196	.1717	.2377	.0234	.2792	.1881	.0253	.4777	.0357
#1	38.69	24.48	25.07	.6318	.4121	25.16	.4664	.5491	.2193	1.686
#2	38.49	24.41	25.09	.6322	.4123	25.05	.4679	.5494	.2190	1.687
#3	38.60	24.52	25.01	.6346	.4121	25.18	.4663	.5492	.2209	1.685

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	1.222	.4420	.6045	1.101	1.951	.4745	.4811
Stddev	.001	.0004	.0015	.003	.002	.0012	.0009
%RSD	.0473	.0928	.2558	.2269	.1019	.2530	.1784
#1	1.222	.4416	.6048	1.101	1.950	.4749	.4802
#2	1.222	.4424	.6028	1.099	1.953	.4731	.4819
#3	1.223	.4419	.6059	1.104	1.950	.4754	.4813

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	2679.0	8029.4	45915.	4266.2
Stddev	2.8	8.4	101.	24.0
%RSD	.10625	.10417	.21958	.56369
#1	2677.5	8031.2	45874.	4254.0
#2	2677.2	8020.3	46030.	4250.7
#3	2682.3	8036.8	45841.	4293.9

Zoom In
Zoom Out

Sample Name: MP28761-S2 Acquired: 4/6/2015 17:09:32 Type: Unk
Method: 60102007_041712(v218) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	.0440	66.48	1.622	2.000	.0505	28.96	.0454	.4635	.2583	.2524
Stddev	.0004	.17	.002	.008	.0002	.11	.0000	.0001	.0012	.0007
%RSD	.9791	.2564	.1053	.4100	.3273	.3787	.0656	.0315	.4779	.2887
#1	.0435	66.66	1.621	2.007	.0507	29.07	.0454	.4635	.2590	.2532
#2	.0442	66.32	1.621	1.991	.0503	28.85	.0455	.4633	.2569	.2518
#3	.0444	66.45	1.624	2.002	.0505	28.97	.0454	.4636	.2591	.2521

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	39.13	24.32	25.16	.6697	.4091	24.92	.4673	.5498	.2131	1.674
Stddev	.13	.10	.05	.0021	.0005	.07	.0008	.0013	.0010	.001
%RSD	.3426	.4313	.1791	.3116	.1109	.2772	.1745	.2309	.4613	.0603
#1	39.26	24.44	25.21	.6696	.4088	24.99	.4665	.5500	.2119	1.674
#2	38.99	24.23	25.14	.6677	.4089	24.85	.4673	.5484	.2135	1.674
#3	39.15	24.30	25.13	.6718	.4096	24.92	.4681	.5509	.2138	1.675

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	1.220	.4433	.6003	1.159	1.955	.4749	.4790
Stddev	.001	.0010	.0022	.003	.002	.0009	.0006
%RSD	.0377	.2196	.3702	.2886	.0968	.1952	.1169
#1	1.219	.4422	.6025	1.160	1.957	.4752	.4784
#2	1.220	.4439	.5981	1.155	1.954	.4739	.4790
#3	1.220	.4437	.6003	1.161	1.955	.4757	.4795

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	2680.1	8070.1	46064.	4232.1
Stddev	3.7	3.0	93.	15.3
%RSD	.13948	.03684	.20128	.36245
#1	2675.8	8067.1	45957.	4214.4
#2	2682.4	8070.1	46122.	4239.9
#3	2682.2	8073.1	46113.	4241.9

Zoom In
Zoom Out

Sample Name: FA23271-2 Acquired: 4/6/2015 17:13:30 Type: Unk
Method: 60102007_041712(v218) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	-.0010	70.95	.0135	.1377	.0013	3.445	-.0002	.0050	.0680	.0134
Stddev	.0001	.28	.0010	.0010	.0000	.015	.0001	.0000	.0005	.0002
%RSD	8.704	.3954	7.380	.7069	3.364	.4334	21.86	.6738	.6939	1.612
#1	-.0010	71.23	.0144	.1387	.0013	3.458	-.0003	.0049	.0684	.0133
#2	-.0009	70.95	.0125	.1368	.0012	3.448	-.0002	.0049	.0675	.0137
#3	-.0010	70.67	.0137	.1375	.0013	3.429	-.0002	.0050	.0682	.0133

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	36.37	.9227	2.979	.3886	.0026	.1800	.0260	.0538	-.0002	.0008
Stddev	.23	.0193	.010	.0008	.0001	.0013	.0002	.0003	.0009	.0019
%RSD	.6388	2.091	.3227	.2034	3.761	.7444	.7457	.4786	564.4	252.3
#1	36.59	.9447	2.970	.3881	.0026	.1810	.0260	.0538	.0008	-.0004
#2	36.38	.9088	2.977	.3882	.0027	.1805	.0262	.0540	-.0002	.0029
#3	36.13	.9145	2.989	.3895	.0025	.1785	.0258	.0535	-.0010	-.0003

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	1.186	.0196	.0778	1.309	-.0015	.0588	.0493
Stddev	.002	.0002	.0001	.003	.0003	.0002	.0001
%RSD	.1905	1.243	.1629	.2455	23.49	.2924	.2534
#1	1.184	.0198	.0779	1.310	-.0018	.0588	.0493
#2	1.187	.0193	.0778	1.306	-.0012	.0587	.0493
#3	1.188	.0196	.0776	1.312	-.0013	.0590	.0491

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	2855.9	8471.3	48609.	4413.3
Stddev	4.1	6.8	312.	45.1
%RSD	.14339	.07981	.64240	1.0220
#1	2851.6	8463.8	48785.	4381.2
#2	2856.4	8477.0	48794.	4393.9
#3	2859.8	8473.0	48248.	4464.8

Zoom In
Zoom Out

Sample Name: FA23271-12 Acquired: 4/6/2015 17:17:33 Type: Unk
Method: 60102007_041712(v218) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	-.0006	66.20	.0105	.1100	.0010	23.15	-.0003	.0034	.0601	.0127
Stddev	.0003	.12	.0006	.0002	.0000	.06	.0000	.0000	.0003	.0002
%RSD	41.69	.1849	5.480	.2252	4.891	.2621	7.420	1.160	.5639	1.825
#1	-.0009	66.22	.0111	.1101	.0010	23.11	-.0003	.0034	.0603	.0126
#2	-.0005	66.06	.0101	.1097	.0010	23.11	-.0003	.0034	.0597	.0130
#3	-.0004	66.30	.0102	.1101	.0011	23.22	-.0003	.0033	.0602	.0125

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	33.15	.9128	2.835	.2882	.0020	.1590	.0267	.0465	-.0010	.0003
Stddev	.04	.0034	.019	.0005	.0000	.0011	.0001	.0004	.0004	.0009
%RSD	.1065	.3749	.6844	.1700	.4051	.6776	.3448	.7621	37.01	330.7
#1	33.14	.9108	2.815	.2882	.0020	.1588	.0266	.0464	-.0009	-.0008
#2	33.12	.9168	2.839	.2877	.0020	.1601	.0267	.0469	-.0013	.0010
#3	33.19	.9109	2.853	.2887	.0020	.1580	.0268	.0463	-.0006	.0006

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	1.527	.0207	.0754	1.381	-.0015	.0573	.0544
Stddev	.001	.0000	.0001	.002	.0006	.0002	.0000
%RSD	.0803	.2036	.1579	.1325	36.08	.2929	.0478
#1	1.528	.0207	.0754	1.383	-.0009	.0573	.0545
#2	1.528	.0206	.0753	1.379	-.0018	.0575	.0544
#3	1.526	.0207	.0755	1.382	-.0019	.0571	.0544

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	2827.4	8177.6	46774.	4271.3
Stddev	4.7	10.8	82.	8.9
%RSD	.16534	.13202	.17565	.20869
#1	2825.8	8167.3	46712.	4275.8
#2	2823.8	8176.8	46867.	4277.1
#3	2832.7	8188.8	46742.	4261.1

Zoom In
Zoom Out

Sample Name: FA23272-10 Acquired: 4/6/2015 17:21:38 Type: Unk
Method: 60102007_041712(v218) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)
Avg	-.0026	4.901	.0505	.0875	.0009	F2576.	-.0026	.0021
Stddev	.0004	.014	.0009	.0005	.0000	14.	.0001	.0001
%RSD	13.63	.2919	1.728	.5602	3.621	.5548	2.728	6.904
#1	-.0030	4.885	.0513	.0870	.0009	2570.	-.0025	.0022
#2	-.0023	4.914	.0496	.0880	.0009	2592.	-.0026	.0022
#3	-.0026	4.902	.0507	.0875	.0009	2565.	-.0027	.0019

Elem	Cr2677	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)
Avg	.0275	.0001	29.93	3.505	16.78	.5650	.0008	F93.36
Stddev	.0000	.0002	.10	.022	.05	.0015	.0002	.35
%RSD	.0875	209.9	.3311	.6299	.3157	.2622	21.68	.3733
#1	.0275	-.0001	29.94	3.482	16.73	.5646	.0008	93.51
#2	.0274	.0004	30.02	3.526	16.83	.5638	.0006	93.60
#3	.0274	.0000	29.83	3.506	16.79	.5666	.0009	92.96

Elem	Ni2316	Pb2203	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)
Avg	.0044	.0150	.0035	-.0063	.9963	.0167	F16.12	.0661
Stddev	.0002	.0006	.0012	.0011	.0005	.0003	.06	.0002
%RSD	5.075	4.115	35.56	16.88	.0462	1.872	.3740	.3340
#1	.0041	.0146	.0048	-.0073	.9966	.0163	16.17	.0661
#2	.0046	.0157	.0031	-.0063	.9966	.0168	16.05	.0663
#3	.0045	.0146	.0025	-.0052	.9958	.0169	16.14	.0658

Elem	Tl1908	V_2924	Zn2062
IS Ref	(In2306)	(Y_3600)	(Y_2243)
Avg	F-.0110	.0582	.0170
Stddev	.0014	.0003	.0001
%RSD	12.98	.5503	.6678
#1	-.0093	.0586	.0169
#2	-.0118	.0580	.0169
#3	-.0118	.0580	.0171

Zoom In Zoom Out

Sample Name: FA23272-10 Acquired: 4/6/2015 17:21:38 Type: Unk
Method: 60102007_041712(v218) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	1952.8	6688.4	39060.	4119.5
Stddev	2.0	2.3	83.	21.4
%RSD	.10433	.03480	.21341	.52045
#1	1953.4	6686.2	39156.	4131.0
#2	1954.5	6690.8	39023.	4094.8
#3	1950.5	6688.2	39002.	4132.7

Zoom In Zoom Out

Sample Name: FA23272-11 Acquired: 4/6/2015 17:25:59 Type: Unk
Method: 60102007_041712(v218) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)
Avg	-.0022	10.37	.0973	.1145	.0018	F2064.	-.0020	.0053	.1248
Stddev	.0005	.03	.0008	.0002	.0001	23.	.0000	.0000	.0006
%RSD	21.54	.2646	.8034	.1397	3.316	1.115	2.290	.4328	.4587
#1	-.0016	10.39	.0977	.1145	.0018	2048.	-.0020	.0053	.1254
#2	-.0023	10.39	.0978	.1146	.0017	2054.	-.0019	.0053	.1245
#3	-.0026	10.34	.0964	.1143	.0018	2091.	-.0020	.0053	.1244

Elem	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
IS Ref	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)
Avg	.0019	61.86	2.317	41.69	.9846	.0019	43.83	.0116	.0302
Stddev	.0001	.07	.038	.06	.0017	.0001	.03	.0002	.0001
%RSD	3.550	.1089	1.640	.1364	.1725	7.116	.0745	1.418	.3605
#1	.0018	61.90	2.288	41.75	.9839	.0017	43.87	.0115	.0303
#2	.0019	61.91	2.303	41.66	.9833	.0019	43.80	.0118	.0301
#3	.0018	61.79	2.360	41.65	.9865	.0020	43.82	.0115	.0301

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	.0014	-.0048	.9956	.0154	F17.75	.1199	-.0094	.1077	.0352
Stddev	.0007	.0002	.0008	.0003	.23	.0006	.0005	.0005	.0002
%RSD	52.07	4.451	.0817	2.041	1.275	.4727	5.092	.4744	.4578
#1	.0016	-.0050	.9947	.0157	17.79	.1193	-.0093	.1079	.0353
#2	.0021	-.0046	.9957	.0151	17.96	.1199	-.0099	.1071	.0353
#3	.0006	-.0047	.9963	.0156	17.51	.1204	-.0090	.1080	.0350

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	1997.3	7578.0	43838.	4550.7
Stddev	3.3	3.7	25.	8.8
%RSD	.16285	.04936	.05779	.19380
#1	1993.6	7575.5	43858.	4541.9
#2	1999.9	7576.4	43846.	4559.6
#3	1998.4	7582.3	43809.	4550.6

Zoom In Zoom Out

Sample Name: FA23272-12 Acquired: 4/6/2015 17:30:17 Type: Unk
Method: 60102007_041712(v218) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)
Avg	-.0023	4.460	.0570	.0770	.0008	F2123.	-.0020	.0012	.0612
Stddev	.0002	.016	.0011	.0003	.0001	19.	.0000	.0000	.0005
%RSD	9.635	.3564	1.904	.3676	16.41	.9184	1.078	1.498	.7544
#1	-.0024	4.453	.0580	.0768	.0006	2129.	-.0019	.0012	.0616
#2	-.0021	4.479	.0559	.0773	.0009	2138.	-.0020	.0012	.0612
#3	-.0025	4.449	.0570	.0770	.0008	2101.	-.0020	.0012	.0607

Elem	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
IS Ref	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)
Avg	.0002	26.07	.7974	11.33	.2419	.0008	26.00	.0068	.0236
Stddev	.0001	.09	.0123	.10	.0005	.0001	.05	.0001	.0008
%RSD	44.60	.3437	1.541	.9052	.1909	13.84	.2057	.7410	3.408
#1	.0003	26.04	.7997	11.33	.2422	.0009	25.99	.0068	.0245
#2	.0001	26.17	.8084	11.44	.2422	.0007	26.06	.0069	.0231
#3	.0001	26.00	.7841	11.23	.2414	.0008	25.96	.0068	.0230

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	.0023	-.0033	1.001	.0171	F16.97	.1376	-.0089	.0595	.0145
Stddev	.0012	.0004	.001	.0006	.15	.0006	.0007	.0003	.0001
%RSD	51.78	11.44	.0998	3.260	.8647	.4242	8.241	.5031	.8587
#1	.0014	-.0031	1.000	.0165	17.12	.1383	-.0085	.0598	.0144
#2	.0037	-.0030	.9997	.0173	16.94	.1374	-.0097	.0593	.0144
#3	.0020	-.0037	1.002	.0176	16.83	.1372	-.0084	.0593	.0146

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	2030.9	6858.1	39600.	4060.3
Stddev	4.1	8.8	128.	45.3
%RSD	.20185	.12765	.32306	1.1163
#1	2029.4	6851.7	39586.	4036.2
#2	2027.7	6854.5	39479.	4032.1
#3	2035.5	6868.1	39734.	4112.6

Zoom In Zoom Out

Sample Name: FA23272-13 Acquired: 4/6/2015 17:34:39 Type: Unk
Method: 60102007_041712(v218) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)
Avg	-.0012	17.41	.2447	.2026	.0023	F2889.	-.0024	.0036
Stddev	.0005	.03	.0009	.0010	.0000	24.	.0001	.0002
%RSD	38.74	.1597	.3489	.4930	1.415	.8283	4.064	5.174
#1	-.0014	17.44	.2448	.2033	.0023	2909.	-.0025	.0036
#2	-.0016	17.39	.2455	.2030	.0023	2896.	-.0024	.0037
#3	-.0007	17.39	.2438	.2014	.0023	2862.	-.0023	.0034

Elem	Cr2677	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)
Avg	.2880	.0043	106.9	2.393	71.74	.7874	.0033	37.07
Stddev	.0008	.0001	.3	.026	.14	.0025	.0001	.14
%RSD	.2660	2.630	.2514	1.104	.1988	.3215	3.936	.3656
#1	.2876	.0043	107.2	2.420	71.87	.7859	.0033	37.19
#2	.2889	.0044	107.0	2.391	71.77	.7903	.0034	37.08
#3	.2875	.0041	106.7	2.368	71.59	.7859	.0031	36.92

Elem	Ni2316	Pb2203	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)
Avg	.0220	.0481	.0013	-.0084	1.220	.0138	F36.58	.2247
Stddev	.0001	.0005	.0004	.0013	.001	.0002	.43	.0004
%RSD	.6311	1.093	28.52	15.43	.0435	1.735	1.181	.1930
#1	.0219	.0476	.0015	-.0093	1.219	.0138	36.88	.2247
#2	.0221	.0480	.0008	-.0069	1.220	.0135	36.78	.2252
#3	.0219	.0487	.0015	-.0089	1.220	.0140	36.09	.2243

Elem	Tl1908	V_2924	Zn2062
IS Ref	(In2306)	(Y_3600)	(Y_2243)
Avg	F-.0151	.2556	.0354
Stddev	.0010	.0005	.0001
%RSD	6.622	.1790	.1861
#1	-.0161	.2551	.0354
#2	-.0141	.2560	.0354
#3	-.0152	.2555	.0355

Zoom In
Zoom Out

Sample Name: FA23272-13 Acquired: 4/6/2015 17:34:39 Type: Unk
Method: 60102007_041712(v218) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	1814.0	7611.5	44704.	4681.4
Stddev	5.3	12.5	153.	14.8
%RSD	.29263	.16377	.34291	.31607
#1	1809.5	7598.9	44827.	4674.0
#2	1819.9	7612.0	44532.	4671.9
#3	1812.5	7623.8	44753.	4698.5

Zoom In
Zoom Out

Sample Name: FA23272-14 Acquired: 4/6/2015 17:38:57 Type: Unk
Method: 60102007_041712(v218) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)
Avg	-.0022	13.14	.1829	.2452	.0018	F3213.	-.0027	.0021
Stddev	.0003	.04	.0007	.0003	.0001	24.	.0001	.0000
%RSD	12.04	.3131	.3743	.1132	5.286	.7520	2.141	1.433
#1	-.0022	13.10	.1834	.2452	.0017	3232.	-.0027	.0020
#2	-.0019	13.14	.1821	.2450	.0017	3186.	-.0026	.0021
#3	-.0025	13.18	.1833	.2455	.0019	3220.	-.0027	.0021

Elem	Cr2677	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)
Avg	.2425	.0017	71.79	3.239	71.18	.6761	.0027	70.98
Stddev	.0005	.0002	.19	.037	.18	.0019	.0001	.07
%RSD	.2101	10.84	.2710	1.157	.2552	.2836	4.830	.1054
#1	.2420	.0015	71.93	3.198	71.38	.6750	.0028	71.06
#2	.2430	.0017	71.57	3.249	71.03	.6750	.0027	70.91
#3	.2427	.0019	71.87	3.271	71.14	.6783	.0026	70.98

Elem	Ni2316	Pb2203	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)
Avg	.0167	.0473	.0023	-.0071	1.048	.0138	F37.46	.1633
Stddev	.0003	.0017	.0010	.0007	.001	.0001	.14	.0003
%RSD	1.850	3.501	41.14	10.11	.1119	.9465	.3851	.2046
#1	.0171	.0485	.0031	-.0069	1.048	.0140	37.46	.1633
#2	.0167	.0481	.0013	-.0065	1.047	.0138	37.60	.1630
#3	.0164	.0454	.0026	-.0079	1.049	.0137	37.31	.1636

Elem	Tl1908	V_2924	Zn2062
IS Ref	(In2306)	(Y_3600)	(Y_2243)
Avg	F-.0165	.1810	.0275
Stddev	.0007	.0004	.0000
%RSD	4.463	.2256	.0661
#1	-.0172	.1806	.0275
#2	-.0157	.1810	.0275
#3	-.0165	.1814	.0275

Zoom In
Zoom Out

Sample Name: FA23272-14 Acquired: 4/6/2015 17:38:57 Type: Unk
Method: 60102007_041712(v218) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	1740.7	7579.7	44734.	4706.0
Stddev	3.8	3.4	41.	29.1
%RSD	.21718	.04483	.09059	.61861
#1	1742.7	7579.3	44766.	4672.4
#2	1743.0	7583.3	44688.	4721.8
#3	1736.3	7576.5	44746.	4723.7

Zoom In
Zoom Out

Sample Name: FA23272-15 Acquired: 4/6/2015 17:43:15 Type: Unk
Method: 60102007_041712(v218) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)
Avg	-.0030	9.237	.0912	.1937	.0009	F3268.	-.0029	.0010
Stddev	.0006	.015	.0016	.0003	.0001	17.	.0000	.0001
%RSD	21.14	.1649	1.802	.1641	11.30	.5177	.8145	6.008
#1	-.0030	9.253	.0909	.1934	.0009	3250.	-.0029	.0009
#2	-.0036	9.223	.0898	.1935	.0008	3270.	-.0029	.0010
#3	-.0023	9.235	.0930	.1940	.0010	3284.	-.0029	.0010

Elem	Cr2677	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)
Avg	.1392	.0014	29.30	1.655	81.41	.3544	.0015	40.19
Stddev	.0008	.0005	.08	.011	.29	.0008	.0001	.04
%RSD	.5741	36.44	.2840	.6324	.3569	.2286	7.993	.1077
#1	.1386	.0020	29.24	1.653	81.23	.3541	.0014	40.22
#2	.1401	.0013	29.27	1.645	81.26	.3539	.0016	40.14
#3	.1389	.0010	29.40	1.666	81.75	.3554	.0015	40.22

Elem	Ni2316	Pb2203	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)
Avg	.0109	.0330	.0034	-.0073	1.504	.0155	F38.10	.1537
Stddev	.0001	.0011	.0011	.0012	.003	.0003	.21	.0004
%RSD	.9719	3.344	30.92	16.10	.2262	1.871	.5392	.2340
#1	.0108	.0325	.0023	-.0065	1.502	.0155	37.86	.1538
#2	.0109	.0322	.0044	-.0086	1.501	.0152	38.20	.1533
#3	.0110	.0342	.0037	-.0067	1.507	.0158	38.23	.1540

Elem	Tl1908	V_2924	Zn2062
IS Ref	(In2306)	(Y_3600)	(Y_2243)
Avg	F-.0143	.0726	.0184
Stddev	.0012	.0002	.0001
%RSD	8.559	.3235	.3870
#1	-.0140	.0725	.0185
#2	-.0156	.0729	.0184
#3	-.0132	.0725	.0183

Zoom In Zoom Out

Sample Name: FA23272-15 Acquired: 4/6/2015 17:43:15 Type: Unk
Method: 60102007_041712(v218) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	1782.8	6738.9	39520.	4173.0
Stddev	.9	4.5	76.	22.1
%RSD	.04877	.06625	.19349	.52905
#1	1782.9	6733.8	39477.	4196.0
#2	1783.5	6742.3	39608.	4171.1
#3	1781.8	6740.5	39474.	4151.9

Zoom In Zoom Out

Sample Name: CCV Acquired: 4/6/2015 17:47:33 Type: QC
Method: 60102007_041712(v218) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2542	41.92	1.934	2.040	2.036	42.37	2.017	2.012	2.114	2.054
Stddev	.0008	.16	.005	.001	.004	.10	.002	.003	.004	.003
%RSD	.3206	.3885	.2762	.0589	.2131	.2421	.1169	.1269	.2128	.1321
#1	.2533	42.01	1.939	2.041	2.040	42.48	2.015	2.011	2.109	2.052
#2	.2549	41.73	1.929	2.039	2.031	42.27	2.015	2.010	2.118	2.057
#3	.2544	42.01	1.935	2.039	2.036	42.37	2.019	2.015	2.114	2.054
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value										
Range										

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	41.37	41.96	39.96	2.074	1.993	42.45	1.969	1.998	1.952	1.947
Stddev	.09	.17	.23	.010	.005	.13	.001	.005	.003	.008
%RSD	.2268	.3966	.5649	.4909	.2574	.3024	.0728	.2330	.1398	.4045
#1	41.37	42.05	39.74	2.064	1.988	42.53	1.971	1.993	1.955	1.954
#2	41.27	41.77	39.95	2.084	1.993	42.30	1.968	1.999	1.951	1.938
#3	41.46	42.06	40.19	2.074	1.998	42.52	1.969	2.002	1.949	1.949
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value										
Range										

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.201	1.943	2.089	2.109	2.025	2.020	1.998
Stddev	.002	.002	.005	.005	.003	.004	.003
%RSD	.1103	.0785	.2506	.2354	.1424	.1923	.1353
#1	2.203	1.943	2.094	2.103	2.025	2.016	1.996
#2	2.198	1.942	2.084	2.111	2.023	2.023	1.998
#3	2.201	1.945	2.090	2.111	2.028	2.021	2.001
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Zoom In Zoom Out

Sample Name: CCV Acquired: 4/6/2015 17:47:33 Type: QC
Method: 60102007_041712(v218) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2551.6	7160.5	41610.	3765.5
Stddev	8.4	14.4	126.	14.0
%RSD	.32876	.20118	.30284	.37104
#1	2561.3	7176.9	41748.	3761.9
#2	2547.0	7154.7	41500.	3780.9
#3	2546.6	7149.9	41581.	3753.7

Zoom In Zoom Out

Sample Name: CCB Acquired: 4/6/2015 17:51:38 Type: QC
Method: 60102007_041712(v218) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0003	.0053	.0001	.0006	.0002	.0911	.0003	.0003	.0002
Stddev	.0003	.0020	.0010	.0002	.0001	.0011	.0000	.0000	.0002
%RSD	120.1	38.73	813.1	44.02	63.96	1.241	9.565	7.659	95.32
#1	-.0004	.0041	.0012	.0003	.0002	.0924	.0003	.0003	.0002
#2	.0001	.0076	-.0008	.0007	.0002	.0906	.0003	.0003	.0000
#3	-.0004	.0041	.0000	.0007	.0000	.0903	.0003	.0003	.0003
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0001	.0408	.0447	-.0067	.0002	F.0045	.0252	.0003	.0004
Stddev	.0001	.0143	.0146	.0138	.0000	.0014	.0136	.0001	.0004
%RSD	187.2	35.06	32.60	207.1	11.78	30.30	53.93	30.29	101.3
#1	.0000	.0571	.0562	-.0226	.0002	.0060	.0221	.0002	.0007
#2	.0000	.0343	.0283	.0002	.0002	.0043	.0401	.0002	.0005
#3	.0002	.0308	.0496	.0024	.0002	.0033	.0134	.0003	-.0001
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit						.0010			
Low Limit						-.0010			

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F.0025	-.0009	.0009	.0008	.0009	.0015	.0006	.0001	.0004
Stddev	.0006	.0014	.0002	.0003	.0001	.0002	.0003	.0001	.0000
%RSD	24.94	148.4	22.11	32.24	6.370	15.68	46.14	80.39	4.091
#1	.0032	-.0019	.0011	.0011	.0009	.0016	.0005	.0003	.0004
#2	.0019	.0006	.0008	.0006	.0009	.0017	.0010	.0001	.0004
#3	.0024	-.0015	.0007	.0006	.0008	.0012	.0005	.0000	.0004
Check ?	Chk Fail	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	.0020								
Low Limit	-.0020								

Zoom In Zoom Out

Sample Name: CCB Acquired: 4/6/2015 17:51:38 Type: QC
Method: 60102007_041712(v218) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3036.2	7508.6	43831.	3806.5
Stddev	4.4	6.3	140.	32.2
%RSD	.14590	.08340	.31992	.84617
#1	3041.3	7512.4	43682.	3772.1
#2	3033.3	7501.4	43853.	3835.9
#3	3034.0	7512.0	43960.	3811.6

Zoom In Zoom Out

Sample Name: FA23272-16 Acquired: 4/6/2015 17:55:52 Type: Unk
Method: 60102007_041712(v218) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)
Avg	-.0021	4.906	.0953	.2102	.0005	F3835.	-.0038	.0006
Stddev	.0003	.015	.0007	.0005	.0000	28.	.0001	.0001
%RSD	11.89	.2951	.7394	.2203	7.715	.7222	1.614	16.03
#1	-.0019	4.902	.0949	.2099	.0005	3834.	-.0038	.0006
#2	-.0021	4.895	.0961	.2100	.0005	3863.	-.0038	.0007
#3	-.0024	4.923	.0949	.2108	.0006	3808.	-.0039	.0006

Elem	Cr2677	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)
Avg	.0818	-.0025	22.72	2.521	48.86	.3495	.0017	F86.04
Stddev	.0001	.0003	.09	.015	.26	.0006	.0002	.11
%RSD	.1528	10.17	.3877	.5759	.5406	.1857	11.14	.1247
#1	.0817	-.0027	22.62	2.504	48.56	.3488	.0019	86.17
#2	.0817	-.0022	22.75	2.532	49.07	.3495	.0016	85.99
#3	.0819	-.0027	22.78	2.526	48.95	.3501	.0016	85.97

Elem	Ni2316	Pb2203	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)
Avg	.0068	.0147	.0060	-.0095	1.162	.0163	F32.61	.0137
Stddev	.0000	.0010	.0015	.0023	.001	.0001	.33	.0005
%RSD	.4809	6.701	25.43	24.44	.0839	.8117	1.007	3.682
#1	.0068	.0138	.0075	-.0121	1.161	.0162	32.40	.0135
#2	.0068	.0158	.0045	-.0079	1.162	.0164	32.99	.0143
#3	.0068	.0146	.0058	-.0084	1.163	.0162	32.46	.0133

Elem	Tl1908	V_2924	Zn2062
IS Ref	(In2306)	(Y_3600)	(Y_2243)
Avg	F-.0156	.0587	.0081
Stddev	.0019	.0004	.0001
%RSD	12.16	.7137	1.419
#1	-.0168	.0588	.0080
#2	-.0167	.0583	.0080
#3	-.0134	.0591	.0082

Zoom In Zoom Out

Sample Name: FA23272-16 Acquired: 4/6/2015 17:55:52 Type: Unk
Method: 60102007_041712(v218) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	1752.5	6010.1	35179.	3721.5
Stddev	5.2	3.8	111.	16.1
%RSD	.29508	.06324	.31649	.43369
#1	1747.2	6006.8	35246.	3733.2
#2	1757.5	6009.3	35242.	3703.1
#3	1752.8	6014.3	35051.	3728.3

Zoom In Zoom Out

Sample Name: FA23272-17 Acquired: 4/6/2015 18:00:09 Type: Unk
Method: 60102007_041712(v218) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)
Avg	-.0025	4.859	.1008	.2208	.0006	F4095.	-.0042	.0007
Stddev	.0005	.025	.0008	.0011	.0001	37.	.0000	.0001
%RSD	19.87	.5053	.7927	.4762	19.93	.9086	.7686	20.28
#1	-.0021	4.884	.1017	.2220	.0005	4135.	-.0042	.0005
#2	-.0031	4.835	.1001	.2200	.0007	4061.	-.0041	.0008
#3	-.0025	4.857	.1006	.2203	.0006	4091.	-.0042	.0007

Elem	Cr2677	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)
Avg	.0757	.0012	23.65	2.384	62.94	.2929	.0013	78.79
Stddev	.0008	.0003	.03	.012	.06	.0006	.0002	.30
%RSD	1.042	27.00	.1107	.4956	.0924	.2091	17.95	.3747
#1	.0750	.0009	23.67	2.371	62.96	.2922	.0015	79.09
#2	.0754	.0015	23.62	2.385	62.99	.2933	.0014	78.50
#3	.0765	.0011	23.66	2.395	62.88	.2932	.0010	78.79

Elem	Ni2316	Pb2203	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)
Avg	.0070	.0160	.0064	F-.0110	1.123	.0172	F36.97	.0048
Stddev	.0001	.0005	.0004	.0029	.003	.0009	.27	.0005
%RSD	1.623	2.860	5.671	26.11	.2265	4.957	.7315	10.44
#1	.0071	.0162	.0059	-.0081	1.123	.0167	37.08	.0053
#2	.0069	.0155	.0066	-.0109	1.125	.0168	37.17	.0043
#3	.0071	.0164	.0065	-.0139	1.120	.0182	36.66	.0047

Elem	Tl1908	V_2924	Zn2062
IS Ref	(In2306)	(Y_3600)	(Y_2243)
Avg	F-.0178	.0696	.0226
Stddev	.0009	.0003	.0002
%RSD	4.904	.4928	.8627
#1	-.0188	.0693	.0223
#2	-.0177	.0694	.0227
#3	-.0170	.0700	.0226

Zoom In
Zoom Out

Sample Name: FA23272-17 Acquired: 4/6/2015 18:00:09 Type: Unk
Method: 60102007_041712(v218) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	1726.7	5825.0	34535.	3694.0
Stddev	1.0	6.8	79.	10.3
%RSD	.05803	.11685	.22886	.27798
#1	1726.2	5825.9	34556.	3693.4
#2	1726.1	5817.8	34602.	3684.1
#3	1727.9	5831.3	34448.	3704.6

Zoom In
Zoom Out

Sample Name: FA23272-18 Acquired: 4/6/2015 18:04:27 Type: Unk
Method: 60102007_041712(v218) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)
Avg	-.0026	4.753	.1065	.1710	.0005	F3552.	-.0033	.0006
Stddev	.0010	.035	.0007	.0007	.0001	17.	.0000	.0001
%RSD	38.66	.7312	.6645	.4020	12.02	.4720	1.111	17.14
#1	-.0020	4.784	.1061	.1718	.0006	3534.	-.0033	.0006
#2	-.0037	4.715	.1074	.1706	.0005	3556.	-.0033	.0007
#3	-.0020	4.758	.1062	.1707	.0006	3567.	-.0033	.0005

Elem	Cr2677	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)
Avg	.0937	.0025	24.49	1.939	80.81	.2919	.0009	59.27
Stddev	.0007	.0001	.03	.011	.45	.0008	.0002	.15
%RSD	.6981	5.785	.1260	.5469	.5590	.2681	17.11	.2483
#1	.0931	.0024	24.49	1.929	80.45	.2915	.0009	59.40
#2	.0944	.0024	24.53	1.939	80.65	.2928	.0008	59.11
#3	.0935	.0026	24.47	1.950	81.32	.2914	.0011	59.32

Elem	Ni2316	Pb2203	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)
Avg	.0079	.0201	.0047	-.0069	1.060	.0180	F37.01	.0229
Stddev	.0002	.0009	.0005	.0024	.001	.0004	.36	.0004
%RSD	2.228	4.553	10.77	35.67	.0656	2.257	.9674	1.837
#1	.0079	.0200	.0050	-.0053	1.060	.0183	36.63	.0230
#2	.0077	.0210	.0041	-.0097	1.061	.0180	37.07	.0232
#3	.0081	.0192	.0049	-.0056	1.059	.0175	37.34	.0224

Elem	Tl1908	V_2924	Zn2062
IS Ref	(In2306)	(Y_3600)	(Y_2243)
Avg	F-.0146	.0761	.0399
Stddev	.0002	.0004	.0001
%RSD	1.136	.5721	.2288
#1	-.0147	.0765	.0400
#2	-.0144	.0756	.0398
#3	-.0147	.0762	.0400

Zoom In
Zoom Out

Sample Name: FA23272-18 Acquired: 4/6/2015 18:04:27 Type: Unk
Method: 60102007_041712(v218) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	1795.9	6017.7	35588.	3703.9
Stddev	2.2	8.7	69.	26.1
%RSD	.12221	.14406	.19510	.70351
#1	1793.4	6013.3	35620.	3733.5
#2	1797.2	6012.1	35509.	3693.7
#3	1797.2	6027.6	35637.	3684.5

Zoom In
Zoom Out

Sample Name: FA23272-19 Acquired: 4/6/2015 18:08:45 Type: Unk
Method: 60102007_041712(v218) Mode: CONC Corr. Factor: 5.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)
Avg	-.0175	10.01	.3376	.8600	-.0006	F23560.	-.0225	.0023
Stddev	.0006	.09	.0061	.0049	.0004	268.	.0004	.0005
%RSD	3.154	.8970	1.814	.5645	55.50	1.136	1.706	22.95
#1	-.0169	9.928	.3423	.8553	-.0008	23460.	-.0226	.0025
#2	-.0178	10.01	.3307	.8597	-.0002	23350.	-.0221	.0017
#3	-.0179	10.11	.3400	.8650	-.0008	23860.	-.0229	.0026

Elem	Cr2677	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)
Avg	.4805	.0020	54.36	7.932	1097.	1.153	.0040	285.0
Stddev	.0051	.0008	.40	.107	9.	.003	.0004	1.6
%RSD	1.060	40.04	.7365	1.354	.8375	.2500	10.73	.5489
#1	.4864	.0027	53.93	7.893	1090.	1.152	.0036	283.5
#2	.4781	.0021	54.44	7.850	1094.	1.156	.0045	285.0
#3	.4770	.0012	54.72	8.054	1108.	1.150	.0040	286.6

Elem	Ni2316	Pb2203	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)
Avg	.0333	.0587	.0397	F-.0776	3.079	.0857	F402.4	*****
Stddev	.0024	.0071	.0067	.0079	.008	.0015	1.2	-----
%RSD	7.270	12.15	16.80	10.24	.2679	1.719	.3024	-----
#1	.0357	.0507	.0471	-.0701	3.085	.0872	402.9	-----
#2	.0333	.0612	.0342	-.0766	3.084	.0855	403.4	-----
#3	.0309	.0643	.0378	-.0859	3.070	.0843	401.1	-----

Elem	Tl1908	V_2924	Zn2062
IS Ref	(In2306)	(Y_3600)	(Y_2243)
Avg	F-.1195	.3544	.0513
Stddev	.0045	.0013	.0008
%RSD	3.788	.3718	1.496
#1	-.1205	.3559	.0513
#2	-.1235	.3539	.0506
#3	-.1146	.3534	.0521

Zoom In
Zoom Out

Sample Name: FA23272-19 Acquired: 4/6/2015 18:08:45 Type: Unk
Method: 60102007_041712(v218) Mode: CONC Corr. Factor: 5.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	1604.5	5417.9	32442.	3528.6
Stddev	.8	4.2	78.	41.6
%RSD	.05229	.07675	.24034	1.1788
#1	1605.3	5422.0	32435.	3556.3
#2	1603.6	5418.0	32368.	3548.8
#3	1604.5	5413.7	32523.	3480.8

Zoom In
Zoom Out

Sample Name: FA23272-20 Acquired: 4/6/2015 18:13:04 Type: Unk
Method: 60102007_041712(v218) Mode: CONC Corr. Factor: 5.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)
Avg	-.0175	12.21	.4853	.8466	.0005	F23070.	-.0158	.0216
Stddev	.0017	.11	.0497	.0025	.0004	191.	.0049	.0148
%RSD	9.667	.8785	10.24	.2910	83.93	.8280	31.09	68.47
#1	-.0190	12.17	.4368	.8452	.0002	22900.	-.0202	.0071
#2	-.0157	12.34	.4830	.8453	.0009	23280.	-.0165	.0211
#3	-.0179	12.14	.5361	.8495	.0003	23030.	-.0105	.0367

Elem	Cr2677	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)
Avg	.6039	-.0012	57.00	16.35	939.4	.9631	.0490	356.0
Stddev	.0034	.0008	.08	.11	2.2	.0029	.0348	.5
%RSD	.5638	62.82	.1355	.6996	.2389	.2963	71.08	.1430
#1	.6061	-.0014	57.09	16.22	939.6	.9662	.0166	356.3
#2	.6000	-.0004	56.96	16.43	941.5	.9605	.0445	355.4
#3	.6057	-.0020	56.96	16.40	937.1	.9627	.0858	356.2

Elem	Ni2316	Pb2203	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)
Avg	.0714	.1761	.0183	.1135	3.465	.2044	*****	*****
Stddev	.0262	.0719	.0238	.0699	.064	.0935	-----	-----
%RSD	36.67	40.80	130.2	61.62	1.857	45.77	-----	-----
#1	.0474	.1138	.0429	.0355	3.415	.1150	-----	-----
#2	.0675	.1599	.0168	.1342	3.442	.1965	-----	-----
#3	.0992	.2547	-.0047	.1707	3.537	.3016	445.6	-----

Elem	Tl1908	V_2924	Zn2062
IS Ref	(In2306)	(Y_3600)	(Y_2243)
Avg	F-.1425	.4216	.0519
Stddev	.0371	.0035	.0064
%RSD	26.03	.8277	12.37
#1	-.1166	.4256	.0463
#2	-.1260	.4200	.0505
#3	-.1851	.4192	.0589

Zoom In
Zoom Out

Sample Name: FA23272-20 Acquired: 4/6/2015 18:13:04 Type: Unk
Method: 60102007_041712(v218) Mode: CONC Corr. Factor: 5.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	1499.3	5243.1	32523.	3581.1
Stddev	13.6	49.7	245.	25.8
%RSD	.90948	.94878	.75230	.72121
#1	1515.0	5299.1	32712.	3597.3
#2	1490.9	5226.5	32609.	3551.3
#3	1491.9	5203.8	32246.	3594.6

Zoom In
Zoom Out

Sample Name: FA23272-21 Acquired: 4/6/2015 18:17:16 Type: Unk
Method: 60102007_041712(v218) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)
Avg	-.0033	3.777	.0484	.1652	.0002	F3740.	-.0034	.0005
Stddev	.0002	.012	.0007	.0003	.0001	25.	.0000	.0001
%RSD	7.222	.3116	1.543	.1603	54.93	.6670	.9726	19.46
#1	-.0031	3.764	.0492	.1652	.0001	3745.	-.0034	.0005
#2	-.0032	3.782	.0478	.1650	.0002	3763.	-.0034	.0006
#3	-.0035	3.786	.0482	.1655	.0003	3714.	-.0033	.0005

Elem	Cr2677	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)
Avg	.0950	.0114	7.990	1.525	161.5	.1542	.0014	39.56
Stddev	.0004	.0005	.007	.023	.3	.0004	.0001	.07
%RSD	.3987	4.261	.0901	1.486	.1820	.2359	8.244	.1807
#1	.0950	.0114	7.999	1.551	161.2	.1542	.0014	39.62
#2	.0953	.0118	7.985	1.512	161.8	.1546	.0016	39.58
#3	.0946	.0108	7.987	1.511	161.5	.1538	.0014	39.48

Elem	Ni2316	Pb2203	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)
Avg	.0084	.0138	.0066	F-.0113	1.119	.0175	F60.82	.0132
Stddev	.0002	.0009	.0008	.0014	.002	.0001	.70	.0005
%RSD	1.934	6.575	12.24	12.85	.1322	.6074	1.158	3.478
#1	.0083	.0140	.0072	-.0126	1.119	.0176	60.42	.0127
#2	.0082	.0146	.0057	-.0097	1.118	.0174	60.41	.0136
#3	.0085	.0128	.0068	-.0115	1.121	.0175	61.64	.0133

Elem	Tl1908	V_2924	Zn2062
IS Ref	(In2306)	(Y_3600)	(Y_2243)
Avg	F-.0142	.0633	.0620
Stddev	.0006	.0003	.0002
%RSD	3.909	.4613	.3519
#1	-.0136	.0636	.0621
#2	-.0143	.0632	.0618
#3	-.0147	.0631	.0622

Zoom In
Zoom Out

Sample Name: FA23272-21 Acquired: 4/6/2015 18:17:16 Type: Unk
Method: 60102007_041712(v218) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	1731.1	5810.1	34252.	3604.4
Stddev	3.1	7.8	56.	3.4
%RSD	.17666	.13428	.16337	.09465
#1	1727.6	5806.3	34188.	3604.6
#2	1733.2	5819.1	34285.	3600.9
#3	1732.6	5804.9	34284.	3607.7

Zoom In
Zoom Out

Sample Name: FA23272-22 Acquired: 4/6/2015 18:21:33 Type: Unk
Method: 60102007_041712(v218) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	-.0010	3.635	.0026	.0470	.0004	357.1	-.0002	.0003	.0324	.0005
Stddev	.0004	.015	.0008	.0005	.0000	3.4	.0000	.0000	.0001	.0002
%RSD	35.85	.4240	30.00	.9661	11.57	.9391	9.998	15.96	.2237	38.89
#1	-.0012	3.623	.0020	.0467	.0004	356.8	-.0002	.0002	.0325	.0006
#2	-.0011	3.652	.0035	.0468	.0004	360.5	-.0002	.0003	.0324	.0003
#3	-.0006	3.630	.0023	.0475	.0003	353.8	-.0002	.0003	.0324	.0006

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	2.243	2.306	12.90	.0339	-.0002	52.57	.0031	.0092	.0007	-.0012
Stddev	.008	.005	.07	.0001	.0000	.23	.0001	.0005	.0007	.0003
%RSD	.3583	.2101	.5378	.1496	15.06	.4373	3.758	5.397	103.3	28.34
#1	2.234	2.302	12.85	.0340	-.0002	52.36	.0030	.0093	.0010	-.0013
#2	2.250	2.312	12.98	.0339	-.0002	52.52	.0032	.0096	.0012	-.0008
#3	2.245	2.306	12.88	.0339	-.0002	52.81	.0030	.0086	-.0001	-.0014

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	1.068	.0202	2.464	.1084	-.0008	.0134	.0066
Stddev	.001	.0001	.011	.0003	.0001	.0001	.0000
%RSD	.0692	.7387	.4493	.2930	8.773	.5719	.5972
#1	1.068	.0200	2.457	.1087	-.0009	.0135	.0066
#2	1.068	.0202	2.459	.1084	-.0008	.0133	.0065
#3	1.067	.0203	2.477	.1081	-.0008	.0134	.0065

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	2490.8	7096.5	41424.	3782.3
Stddev	2.5	8.4	182.	32.5
%RSD	.09980	.11781	.43883	.86025
#1	2488.6	7093.2	41226.	3813.5
#2	2490.2	7090.2	41465.	3748.5
#3	2493.5	7106.0	41582.	3784.9

Zoom In
Zoom Out

Sample Name: FA23272-23 Acquired: 4/6/2015 18:25:48 Type: Unk
Method: 60102007_041712(v218) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	-.0004	4.402	.0036	.0219	.0002	371.7	-.0002	.0002	.0266	.0038
Stddev	.0004	.015	.0007	.0003	.0001	3.7	.0000	.0001	.0001	.0001
%RSD	100.5	.3288	20.28	1.480	21.63	1.000	15.94	33.80	.2700	3.009
#1	-.0003	4.414	.0044	.0216	.0002	375.5	-.0002	.0002	.0265	.0039
#2	-.0001	4.386	.0034	.0219	.0003	368.1	-.0002	.0001	.0267	.0038
#3	-.0009	4.407	.0030	.0222	.0002	371.4	-.0003	.0002	.0267	.0037

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	3.369	2.282	7.521	.0213	-.0002	37.66	.0034	.0054	-.0004	-.0014
Stddev	.017	.041	.032	.0000	.0001	.08	.0002	.0006	.0001	.0013
%RSD	.4907	1.805	.4243	.1552	61.37	.2184	5.020	10.67	23.13	89.59
#1	3.379	2.307	7.555	.0212	-.0004	37.75	.0033	.0060	-.0004	-.0028
#2	3.350	2.234	7.492	.0213	-.0002	37.60	.0033	.0049	-.0003	-.0003
#3	3.378	2.304	7.516	.0213	-.0002	37.62	.0036	.0054	-.0003	-.0011

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	1.134	.0204	2.032	.0928	-.0012	.0103	.0091
Stddev	.003	.0004	.004	.0002	.0007	.0001	.0000
%RSD	.2458	1.773	.1839	.1874	59.94	.8829	.3601
#1	1.137	.0202	2.036	.0929	-.0015	.0104	.0091
#2	1.132	.0208	2.031	.0929	-.0004	.0103	.0091
#3	1.134	.0202	2.029	.0926	-.0017	.0103	.0090

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	2504.4	7187.6	41978.	3826.8
Stddev	2.8	2.0	48.	19.4
%RSD	.11313	.02803	.11545	.50579
#1	2502.1	7186.4	41939.	3807.3
#2	2503.4	7190.0	42032.	3846.1
#3	2507.6	7186.6	41964.	3826.9

Zoom In
Zoom Out

Sample Name: FA23272-24 Acquired: 4/6/2015 18:30:04 Type: Unk
Method: 60102007_041712(v218) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)
Avg	-.0031	4.969	.0124	.4421	.0001	F4441.	-.0047	.0003
Stddev	.0005	.016	.0010	.0017	.0000	9.	.0001	.0001
%RSD	16.88	.3180	7.895	.3889	15.19	.1982	1.386	24.02
#1	-.0026	4.961	.0126	.4405	.0002	4451.	-.0048	.0004
#2	-.0036	4.987	.0132	.4419	.0001	4435.	-.0047	.0003
#3	-.0032	4.959	.0113	.4440	.0001	4438.	-.0047	.0003

Elem	Cr2677	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)
Avg	.0323	-.0005	13.37	1.656	37.79	.2149	.0005	F83.38
Stddev	.0004	.0002	.04	.009	.17	.0011	.0003	.10
%RSD	1.317	31.31	.3037	.5607	.4479	.5138	51.82	.1222
#1	.0327	-.0007	13.32	1.667	37.79	.2162	.0007	83.36
#2	.0321	-.0006	13.37	1.651	37.63	.2141	.0002	83.50
#3	.0319	-.0004	13.40	1.650	37.97	.2145	.0007	83.30

Elem	Ni2316	Pb2203	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)
Avg	.0041	.0112	.0062	F-.0102	1.254	.0173	F34.49	*****
Stddev	.0001	.0012	.0002	.0024	.001	.0001	.49	-----
%RSD	2.365	10.40	3.441	23.07	.0364	.4443	1.412	-----
#1	.0041	.0099	.0064	-.0129	1.254	.0174	34.86	-.0250
#2	.0042	.0119	.0063	-.0093	1.254	.0173	33.94	-----
#3	.0040	.0119	.0060	-.0084	1.253	.0173	34.67	-----

Elem	Tl1908	V_2924	Zn2062
IS Ref	(In2306)	(Y_3600)	(Y_2243)
Avg	F-.0185	.0247	.0051
Stddev	.0004	.0002	.0000
%RSD	2.120	.7715	.6770
#1	-.0183	.0245	.0052
#2	-.0182	.0249	.0051
#3	-.0189	.0247	.0052

Zoom In Zoom Out

Sample Name: FA23272-24 Acquired: 4/6/2015 18:30:04 Type: Unk
Method: 60102007_041712(v218) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	1687.5	5600.5	33160.	3555.1
Stddev	3.5	3.6	207.	5.5
%RSD	.20776	.06410	.62456	.15401
#1	1684.0	5598.9	32922.	3551.1
#2	1687.6	5598.0	33298.	3561.4
#3	1691.0	5604.6	33260.	3552.9

Zoom In Zoom Out

Sample Name: FA23272-25 Acquired: 4/6/2015 18:34:22 Type: Unk
Method: 60102007_041712(v218) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	-.0008	1.675	.0042	.0280	.0002	444.2	-.0003	.0001	.0100	.0025
Stddev	.0003	.003	.0009	.0001	.0001	4.9	.0000	.0001	.0001	.0001
%RSD	30.15	.1597	20.11	.4573	56.97	1.092	13.72	79.82	1.489	5.351
#1	-.0008	1.678	.0052	.0278	.0001	445.6	-.0003	.0002	.0101	.0023
#2	-.0006	1.674	.0037	.0281	.0001	438.8	-.0003	.0000	.0101	.0026
#3	-.0011	1.673	.0038	.0280	.0003	448.2	-.0002	.0001	.0098	.0025

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	1.250	2.228	7.312	.0176	-.0005	51.53	.0016	.0035	.0003	-.0010
Stddev	.007	.028	.018	.0001	.0001	.11	.0001	.0007	.0007	.0011
%RSD	.5831	1.255	.2503	.8425	14.63	.2220	8.721	19.05	216.8	111.1
#1	1.251	2.235	7.328	.0177	-.0006	51.61	.0017	.0035	.0007	-.0022
#2	1.256	2.197	7.316	.0174	-.0005	51.58	.0014	.0042	-.0005	-.0003
#3	1.242	2.252	7.292	.0177	-.0005	51.39	.0016	.0029	.0007	-.0003

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	.8253	.0206	2.775	.0264	-.0021	.0057	.0053
Stddev	.0019	.0001	.006	.0002	.0006	.0001	.0000
%RSD	.2306	.3804	.2139	.8677	27.33	1.988	.9166
#1	.8231	.0206	2.776	.0266	-.0015	.0058	.0054
#2	.8267	.0206	2.780	.0262	-.0027	.0057	.0053
#3	.8260	.0205	2.768	.0263	-.0021	.0055	.0053

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	2458.1	7014.8	41104.	3819.5
Stddev	3.9	11.6	55.	17.8
%RSD	.15938	.16598	.13468	.46535
#1	2457.7	7003.4	41166.	3803.7
#2	2462.1	7026.7	41088.	3838.8
#3	2454.3	7014.2	41059.	3816.1

Zoom In Zoom Out

Sample Name: CCV Acquired: 4/6/2015 18:38:39 Type: QC
Method: 60102007_041712(v218) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2508	41.90	1.951	2.042	2.015	41.44	2.023	2.019	2.089	2.044
Stddev	.0013	.13	.002	.006	.005	.15	.000	.002	.009	.005
%RSD	.5073	.3185	.1221	.2986	.2376	.3583	.0030	.0727	.4120	.2379
#1	.2507	41.82	1.952	2.043	2.011	41.35	2.023	2.021	2.098	2.043
#2	.2497	42.06	1.949	2.048	2.020	41.62	2.023	2.018	2.082	2.041
#3	.2522	41.83	1.953	2.035	2.014	41.37	2.023	2.018	2.085	2.050
Check ?	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass
Value																				
Range																				

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	40.24	42.09	38.92	2.038	2.007	42.31	1.979	1.995	1.969	1.969
Stddev	.13	.18	.19	.022	.004	.11	.001	.002	.002	.004
%RSD	.3144	.4246	.4778	1.101	.2018	.2560	.0428	.0767	.0763	.1920
#1	40.22	41.88	38.77	2.064	2.003	42.29	1.980	1.996	1.970	1.966
#2	40.37	42.18	39.13	2.022	2.008	42.43	1.978	1.996	1.968	1.968
#3	40.12	42.20	38.85	2.028	2.010	42.22	1.978	1.994	1.968	1.974
Check ?	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass
Value																				
Range																				

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.222	1.962	2.099	2.080	2.027	2.012	2.000
Stddev	.002	.001	.004	.006	.002	.004	.001
%RSD	.1014	.0475	.1876	.2716	.0938	.2003	.0231
#1	2.224	1.961	2.097	2.082	2.028	2.017	1.999
#2	2.220	1.961	2.103	2.073	2.029	2.010	2.000
#3	2.223	1.963	2.096	2.083	2.025	2.010	2.000
Check ?	None	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass
Value													
Range													

Zoom In Zoom Out

Sample Name: CCV Acquired: 4/6/2015 18:38:39 Type: QC
Method: 60102007_041712(v218) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2557.2	7147.4	42180.	3789.5
Stddev	4.5	5.0	307.	31.4
%RSD	.17438	.07054	.72700	.82883
#1	2558.5	7150.2	41830.	3820.1
#2	2552.2	7141.5	42308.	3757.3
#3	2560.8	7150.4	42401.	3791.0

Zoom In
Zoom Out

Sample Name: CCB Acquired: 4/6/2015 18:42:44 Type: QC
Method: 60102007_041712(v218) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0006	.0037	.0004	.0006	.0002	.0463	.0001	.0002	.0004
Stddev	.0002	.0037	.0003	.0000	.0001	.0046	.0001	.0000	.0001
%RSD	43.57	98.08	96.79	5.416	60.05	9.919	35.13	19.73	38.72
#1	-.0007	.0065	.0000	.0005	.0002	.0508	.0001	.0002	.0005
#2	-.0007	-.0004	.0004	.0006	.0002	.0466	.0002	.0002	.0002
#3	-.0003	.0051	.0007	.0006	.0001	.0416	.0001	.0001	.0003
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000	.0444	.0457	.0081	.0001	F.0042	.0218	.0003	.0002
Stddev	.0001	.0094	.0125	.0210	.0000	.0013	.0046	.0002	.0001
%RSD	384.8	21.14	27.32	258.3	18.82	32.01	21.35	66.98	81.00
#1	.0001	.0546	.0592	.0179	.0001	.0056	.0164	.0004	.0001
#2	.0000	.0425	.0346	-.0160	.0001	.0040	.0244	.0002	.0001
#3	-.0001	.0361	.0432	.0224	.0001	.0030	.0245	.0001	.0004
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit						.0010			
Low Limit						-.0010			

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0008	-.0006	.0005	.0009	.0004	.0018	.0005	.0002	.0003
Stddev	.0005	.0004	.0002	.0003	.0001	.0002	.0003	.0002	.0000
%RSD	69.78	69.86	34.40	32.74	28.93	10.19	50.20	143.6	4.272
#1	.0013	-.0004	.0006	.0012	.0005	.0020	.0003	.0002	.0003
#2	.0003	-.0004	.0003	.0006	.0003	.0019	.0004	.0004	.0003
#3	.0006	-.0012	.0004	.0009	.0003	.0016	.0008	-.0001	.0002
Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Zoom In
Zoom Out

Sample Name: CCB Acquired: 4/6/2015 18:42:44 Type: QC
Method: 60102007_041712(v218) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3037.1	7500.8	44101.	3789.0
Stddev	4.6	2.0	64.	8.0
%RSD	.14991	.02634	.14521	.21207
#1	3039.4	7502.9	44046.	3788.5
#2	3031.8	7498.9	44171.	3797.2
#3	3040.0	7500.7	44085.	3781.2

Zoom In
Zoom Out

Sample Name: FA23272-26 Acquired: 4/6/2015 18:46:57 Type: Unk
Method: 60102007_041712(v218) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)
Avg	-.0015	2.422	.0069	.0611	.0005	F1072.	-.0005	.0001	.0196
Stddev	.0003	.016	.0006	.0002	.0001	4.	.0000	.0000	.0001
%RSD	17.83	.6390	8.606	.3831	12.80	.3382	4.882	12.34	.7293
#1	-.0012	2.414	.0063	.0613	.0005	1073.	-.0005	.0001	.0197
#2	-.0018	2.413	.0069	.0609	.0004	1075.	-.0005	.0001	.0195
#3	-.0014	2.440	.0075	.0613	.0005	1068.	-.0005	.0001	.0197

Elem	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
IS Ref	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)
Avg	.0010	2.307	1.559	10.21	.0580	.0007	32.54	.0019	.0055
Stddev	.0001	.008	.016	.04	.0002	.0002	.03	.0001	.0005
%RSD	6.061	.3486	1.012	.4360	.2916	27.61	.0891	6.881	8.662
#1	.0009	2.297	1.565	10.17	.0582	.0009	32.51	.0018	.0061
#2	.0010	2.312	1.571	10.26	.0578	.0005	32.57	.0020	.0052
#3	.0010	2.310	1.541	10.20	.0581	.0006	32.53	.0020	.0052

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	.0018	-.0028	1.029	.0187	F6.621	.0623	-.0042	.0169	.0063
Stddev	.0009	.0009	.002	.0001	.031	.0001	.0009	.0001	.0000
%RSD	46.36	32.14	.1802	.2819	.4628	.1295	21.55	.3289	.1328
#1	.0009	-.0018	1.031	.0187	6.591	.0623	-.0052	.0169	.0063
#2	.0026	-.0031	1.027	.0187	6.652	.0622	-.0033	.0170	.0063
#3	.0021	-.0035	1.028	.0188	6.621	.0623	-.0042	.0169	.0063

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	2242.3	7156.8	42071.	4082.6
Stddev	3.9	3.7	103.	13.3
%RSD	.17322	.05150	.24409	.32500
#1	2246.3	7159.7	42138.	4073.7
#2	2238.5	7152.7	42121.	4076.3
#3	2242.2	7158.2	41952.	4097.8

Zoom In
Zoom Out

Sample Name: CRIA Acquired: 4/6/2015 18:51:21 Type: Unk
Method: 60102007_041712(v218) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	.0097	.2182	.0102	.2122	.0053	1.200	.0054	.0547	.0112	.0274
Stddev	.0003	.0106	.0003	.0007	.0000	.031	.0000	.0002	.0002	.0003
%RSD	2.977	4.874	3.087	.3340	.1981	2.574	.7928	.3610	1.576	.9319
#1	.0100	.2176	.0099	.2120	.0053	1.232	.0054	.0546	.0111	.0274
#2	.0096	.2292	.0100	.2130	.0054	1.198	.0054	.0549	.0111	.0277
#3	.0094	.2079	.0105	.2116	.0053	1.170	.0053	.0547	.0114	.0272

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	.3273	10.93	5.094	.0165	.0506	11.20	.0434	.0050	.0050	.0091
Stddev	.0016	.03	.055	.0000	.0001	.03	.0001	.0002	.0001	.0008
%RSD	.4919	.2982	1.086	.1084	.2266	.3118	.3131	3.622	1.842	8.377
#1	.3261	10.94	5.149	.0166	.0507	11.18	.0433	.0052	.0049	.0082
#2	.3267	10.95	5.096	.0165	.0506	11.23	.0434	.0050	.0050	.0094
#3	.3291	10.89	5.038	.0165	.0505	11.17	.0436	.0048	.0051	.0097

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	.0428	.0531	.0112	.0108	.0104	.0504	.0223
Stddev	.0004	.0001	.0001	.0001	.0003	.0001	.0000
%RSD	.8307	.1083	.8627	1.306	3.016	.2087	.1719
#1	.0425	.0532	.0112	.0107	.0101	.0505	.0224
#2	.0427	.0531	.0113	.0108	.0107	.0503	.0223
#3	.0432	.0531	.0111	.0109	.0103	.0505	.0223

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	2883.9	7378.0	43348.	3768.9
Stddev	5.9	7.0	73.	24.9
%RSD	.20540	.09488	.16885	.65952
#1	2890.1	7385.9	43377.	3747.0
#2	2883.4	7372.6	43265.	3763.8
#3	2878.3	7375.6	43403.	3795.9

Zoom In Zoom Out

Sample Name: ICSA Acquired: 4/6/2015 18:55:29 Type: Unk
Method: 60102007_041712(v218) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)
Avg	-.0005	F516.2	.0018	.0004	.0000	481.2	.0004	-.0002
Stddev	.0005	8.6	.0005	.0002	.0001	1.2	.0000	.0001
%RSD	101.5	1.664	31.34	41.91	466.8	.2473	5.169	53.04
#1	-.0003	515.1	.0011	.0004	.0002	479.8	.0004	-.0003
#2	-.0011	508.2	.0022	.0003	-.0001	482.0	.0004	-.0001
#3	-.0001	525.2	.0019	.0006	-.0001	481.7	.0004	-.0003

Elem	Cr2677	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)
Avg	.0008	-.0012	178.8	.0904	472.0	-.0001	.0020	.1869
Stddev	.0001	.0004	.1	.0294	.9	.0000	.0001	.0094
%RSD	16.97	28.55	.0721	32.58	.1838	7.232	5.336	5.043
#1	.0008	-.0016	179.0	.1172	471.8	-.0001	.0021	.1948
#2	.0009	-.0010	178.7	.0589	471.2	-.0001	.0019	.1764
#3	.0007	-.0010	178.8	.0950	472.9	-.0001	.0019	.1895

Elem	Ni2316	Pb2203	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)
Avg	.0024	F-.0129	-.0008	.0013	.0340	.0009	.0000	.0011
Stddev	.0002	.0015	.0019	.0028	.0003	.0003	.000	.0001
%RSD	7.923	11.74	244.5	209.6	.9961	36.84	665.5	9.994
#1	.0022	-.0133	.0014	.0009	.0341	.0013	.0000	.0012
#2	.0026	-.0112	-.0018	.0042	.0336	.0007	.0000	.0011
#3	.0025	-.0142	-.0019	-.0012	.0342	.0007	-.0001	.0010

Elem	Tl1908	V_2924	Zn2062
IS Ref	(In2306)	(Y_3600)	(Y_2243)
Avg	-.0012	.0004	-.0025
Stddev	.0002	.0001	.0002
%RSD	14.12	28.16	8.544
#1	-.0013	.0003	-.0025
#2	-.0012	.0004	-.0024
#3	-.0010	.0005	-.0028

Zoom In Zoom Out

Sample Name: ICSA Acquired: 4/6/2015 18:55:29 Type: Unk
Method: 60102007_041712(v218) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	2244.2	6576.2	38128.	3667.3
Stddev	5.5	8.5	35.	14.8
%RSD	.24605	.12920	.09144	.40308
#1	2248.8	6568.5	38113.	3673.1
#2	2238.1	6574.8	38168.	3678.3
#3	2245.5	6585.3	38103.	3650.5

Zoom In Zoom Out

Sample Name: ICSAB Acquired: 4/6/2015 18:59:49 Type: Unk
Method: 60102007_041712(v218) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)
Avg	F.9844	F520.9	1.034	.5243	.5127	491.8	.9281	.4763	.5122
Stddev	.0029	6.5	.004	.0013	.0017	5.3	.0009	.0002	.0003
%RSD	.2994	1.249	.3796	.2541	.3237	1.087	.1020	.0440	.0570
#1	.9816	518.9	1.032	.5229	.5110	489.8	.9286	.4765	.5123
#2	.9841	515.6	1.038	.5245	.5128	487.7	.9271	.4761	.5119
#3	.9875	528.2	1.030	.5255	.5144	497.8	.9288	.4764	.5125

Elem	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
IS Ref	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)
Avg	.5553	184.5	.0456	475.8	.5168	.9460	.1530	.9405	.9556
Stddev	.0005	.7	.0205	2.6	.0012	.0008	.0065	.0008	.0026
%RSD	.0951	.3816	45.03	.5510	.2327	.0845	4.228	.0860	.2681
#1	.5556	183.7	.0539	472.9	.5163	.9456	.1517	.9411	.9530
#2	.5547	184.6	.0606	476.5	.5160	.9455	.1473	.9396	.9581
#3	.5555	185.1	.0222	478.0	.5182	.9469	.1601	.9408	.9557

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	1.054	1.005	.0975	.9153	1.059	1.053	.9648	.4810	.9486
Stddev	.002	.001	.0012	.0001	.004	.002	.0054	.0013	.0010
%RSD	.1904	.0571	1.234	.0089	.3446	.1487	.5592	.2688	.1085
#1	1.054	1.005	.0988	.9152	1.055	1.052	.9667	.4815	.9491
#2	1.052	1.004	.0964	.9154	1.062	1.052	.9587	.4795	.9475
#3	1.056	1.005	.0973	.9154	1.060	1.054	.9690	.4820	.9493

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	2202.1	6532.8	37466.	3591.6
Stddev	5.2	5.1	51.	36.5
%RSD	.23571	.07737	.13508	1.0174
#1	2205.7	6529.1	37522.	3627.0
#2	2204.5	6538.5	37425.	3593.7
#3	2196.2	6530.7	37451.	3554.0

Zoom In Zoom Out

Sample Name: CCV Acquired: 4/6/2015 19:04:04 Type: QC
Method: 60102007_041712(v218) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2539	42.00	1.941	2.050	2.007	41.40	2.012	2.011	2.103	2.052
Stddev	.0007	.07	.002	.003	.003	.16	.003	.003	.003	.004
%RSD	.2576	.1702	.0860	.1363	.1447	.3813	.1365	.1388	.1555	.1851
#1	.2532	42.06	1.940	2.052	2.008	41.51	2.009	2.009	2.100	2.048
#2	.2544	41.92	1.940	2.047	2.004	41.22	2.012	2.011	2.101	2.053
#3	.2541	42.01	1.943	2.051	2.010	41.46	2.015	2.014	2.106	2.055
Check ?	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass
Value																						
Range																						

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	40.35	41.98	38.93	2.063	2.003	42.78	1.973	1.988	1.960	1.958
Stddev	.14	.08	.11	.004	.008	.06	.001	.004	.004	.002
%RSD	.3585	.1953	.2901	.1844	.3878	.1364	.0364	.1826	.1876	.1015
#1	40.45	41.96	39.06	2.067	1.995	42.82	1.973	1.989	1.960	1.956
#2	40.19	41.91	38.86	2.059	2.003	42.71	1.973	1.984	1.957	1.957
#3	40.42	42.07	38.88	2.064	2.010	42.81	1.974	1.991	1.964	1.960
Check ?	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass
Value																						
Range																						

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.207	1.944	2.093	2.104	2.023	2.014	1.991
Stddev	.004	.002	.002	.002	.002	.003	.003
%RSD	.1882	.0882	.1165	.1154	.1074	.1471	.1476
#1	2.203	1.944	2.093	2.101	2.026	2.010	1.988
#2	2.206	1.943	2.090	2.105	2.021	2.014	1.990
#3	2.211	1.946	2.095	2.105	2.023	2.016	1.994
Check ?	None	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass
Value									
Range									

Zoom In
Zoom Out

Sample Name: CCV Acquired: 4/6/2015 19:04:04 Type: QC
Method: 60102007_041712(v218) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2543.2	7122.2	41538.	3683.2
Stddev	2.3	15.4	73.	32.9
%RSD	.08903	.21652	.17495	.89255
#1	2545.6	7139.1	41618.	3652.0
#2	2543.1	7118.7	41518.	3717.5
#3	2541.0	7108.9	41477.	3680.2

Zoom In
Zoom Out

Sample Name: CCB Acquired: 4/6/2015 19:08:09 Type: QC
Method: 60102007_041712(v218) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0002	-.0037	.0004	.0004	.0002	.0231	.0002	.0002	.0001
Stddev	.0002	.0064	.0003	.0001	.0001	.0056	.0001	.0001	.0001
%RSD	93.07	170.5	76.43	21.17	27.98	24.43	35.28	35.48	58.07
#1	-.0001	.0028	.0006	.0004	.0002	.0294	.0002	.0001	.0002
#2	-.0005	-.0100	.0001	.0004	.0003	.0187	.0002	.0002	.0001
#3	-.0001	-.0040	.0006	.0005	.0002	.0211	.0001	.0002	.0001
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0001	F.0573	.0307	-.0076	.0002	F.0046	-.0010	.0001	-.0002
Stddev	.0002	.0119	.0086	.0228	.0000	.0015	.0010	.0001	.0004
%RSD	248.9	20.77	27.95	298.0	29.32	32.57	100.7	106.4	171.6
#1	.0001	.0696	.0398	-.0054	.0002	.0061	-.0020	.0001	-.0005
#2	.0000	.0564	.0228	.0139	.0002	.0043	.0001	.0003	.0002
#3	-.0002	.0459	.0295	-.0314	.0001	.0032	-.0012	.0000	-.0005
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit		.0500				.0010			
Low Limit		-.0500				-.0010			

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0010	-.0001	.0003	.0009	.0002	.0018	.0004	.0000	.0002
Stddev	.0006	.0018	.0003	.0002	.0000	.0002	.0011	.0003	.0000
%RSD	57.38	1742.	84.13	19.13	10.26	13.10	262.5	2420.	20.29
#1	.0015	.0016	.0000	.0010	.0002	.0021	.0013	-.0001	.0003
#2	.0010	-.0020	.0004	.0010	.0002	.0017	-.0008	-.0002	.0002
#3	.0004	.0001	.0006	.0007	.0003	.0016	.0007	.0004	.0002
Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Zoom In
Zoom Out

Sample Name: CCB Acquired: 4/6/2015 19:08:09 Type: QC
Method: 60102007_041712(v218) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3030.7	7455.8	44220.	3749.9
Stddev	6.3	10.6	123.	34.8
%RSD	.20790	.14195	.27865	.92719
#1	3033.2	7466.1	44148.	3711.5
#2	3023.5	7445.0	44362.	3779.2
#3	3035.3	7456.3	44149.	3759.0

Element, Wavelength and Order	Use?	# IECs	IEC	k1	k2	Calc-in-fit?
Ag 328.068 {103}	☒	3	V	-0.009834	0.000000	No
			Fe	0.000002	0.000000	No
			Mg	0.000000	0.000000	No
Al 396.152 { 85}	☒	1	Mo	0.035224	0.000000	No
As 189.042 {478}	☒	5	Fe	-0.000077	0.000000	No
			Cr	-0.000226	0.000000	No
			Mo	-0.000017	0.000000	No
			Al	0.000004	0.000000	No
			Ca	0.000002	0.000000	No
Ba 455.403 { 74}	☒	1	Fe	0.000004	0.000000	No
Be 313.042 {108}	☒	2	V	0.000115	0.000000	No
			Ti	-0.000059	0.000000	No
Ca 317.933 {106}	☒	None				
Cd 226.502 {449}	☒	4	Fe	0.000089	0.000000	No
			Ca	0.000001	0.000000	No
			Al	-0.000001	0.000000	No
			Ti	0.000151	0.000000	No
Co 228.616 {447}	☒	3	Mo	-0.001220	0.000000	No
			Ti	0.003012	0.000000	No
			Fe	0.000004	0.000000	No
Cr 267.716 {126}	☒	3	Al	0.000001	0.000000	No
			Fe	0.000001	0.000000	No
			Ca	0.000002	0.000000	No
Cu 324.754 {104}	☒	10	Fe	-0.000183	0.000000	No
			Ca	0.000002	0.000000	No
			Mo	0.000528	0.000000	No
			Sn	-0.000012	0.000000	No
			V	-0.000158	0.000000	No
			Ti	-0.000251	0.000000	No
			Al	0.000008	0.000000	No
			Mg	0.000005	0.000000	No
			Co	-0.000787	0.000000	No
			Cd	0.000240	0.000000	No
Fe 259.940 {130}	☒	None				
In 230.606 {446}*	☒	None				
K 766.490 { 44}	☒	None				
Mg 279.079 {121}	☒	None				
Mn 257.610 {131}	☒	2	Fe	0.000008	0.000000	No
			Mg	0.000000	0.000000	No
Mo 202.030 {467}	☒	1	Fe	-0.000027	0.000000	No
Na 589.592 { 57}	☒	None				
Ni 231.604 {445}	☒	7	Fe	-0.000032	0.000000	No
			Co	-0.000054	0.000000	No
			Mo	0.000005	0.000000	No
			Sb	-0.000120	0.000000	No
			Al	0.000003	0.000000	No
			Be	-0.000269	0.000000	No
			Tl	0.000440	0.000000	No
Pb 220.353 {453}	☒	9	Al	0.000249	0.000000	No
			Fe	0.000085	0.000000	No
			Mo	-0.001012	0.000000	No
			Cu	0.001070	0.000000	No
			Ti	0.000036	0.000000	No
			Si	0.000071	0.000000	No
			Ca	0.000003	0.000000	No
			Cr	0.000050	0.000000	No
			Mg	0.000000	0.000000	No

Element, Wavelength and Order	Use?	# IECs	IEC	k1	k2	Calc-in-fit?
Sb 206.833 {463}	☒	10	Fe	0.000059	0.000000	No
			Cr	0.012140	0.000000	No
			Mo	-0.004076	0.000000	No
			V	-0.000611	0.000000	No
			Sn	-0.010736	0.000000	No
			Ti	0.000040	0.000000	No
			Ca	-0.000001	0.000000	No
			Ni	-0.000438	0.000000	No
			Mg	0.000000	0.000000	No
			Al	-0.000002	0.000000	No
Se 196.090 {472}	☒	10	Fe	-0.000015	0.000000	No
			Ca	-0.000000	0.000000	No
			Mn	0.000574	0.000000	No
			Mo	0.000111	0.000000	No
			Al	-0.000034	0.000000	No
			V	0.000000	0.000000	No
			Zn	0.000000	0.000000	No
			Sr	0.000137	0.000000	No
			As	-0.000032	0.000000	No
			Be	0.000212	0.000000	No
Si 212.412 {459}	☒	1	Mo	0.019120	0.000000	No
Sn 189.989 {477}	☒	None				
Sr 407.771 { 83}	☒	1	Ca	0.000017	0.000000	No
Ti 334.941 {101}	☒	1	Ca	-0.000008	0.000000	No
Tl 190.856 {477}	☒	11	Co	0.001145	0.000000	No
			Fe	0.000007	0.000000	No
			Al	-0.000011	0.000000	No
			Ba	-0.000051	0.000000	No
			Ti	-0.002651	0.000000	No
			Sb	0.000012	0.000000	No
			Ca	0.000003	0.000000	No
			Cr	0.000230	0.000000	No
			Mg	-0.000003	0.000000	No
			Mn	0.000818	0.000000	No
			V	-0.038621	0.000000	No
V 292.402 {115}	☒	5	Fe	0.000015	0.000000	No
			Cr	-0.002590	0.000000	No
			Mo	-0.005797	0.000000	No
			Ti	0.000364	0.000000	No
			Mn	-0.000693	0.000000	No
Y 224.306 {450}*	☒	None				
Y 360.073 { 94}*	☒	None				
Y 371.030 { 91}*	☒	None				
Zn 206.200 {463}	☒	5	Cr	-0.000965	0.000000	No
			Al	0.000016	0.000000	No
			Ca	0.000003	0.000000	No
			Fe	-0.000026	0.000000	No
			As	0.001128	0.000000	No

	Element, Wavelength and Order	Date of Fit	Date of Cal.	Type of Fit	Weighting	A0	A1	A2	n (Exponent)
	Ag 328.068 {103}	4/6/2015 10:12:52	4/6/2015 9:45:32	Linear	1/Conc	0.000242	0.580410	0.000000	1.000000
	Al 396.152 { 85}	4/6/2015 10:12:52	4/6/2015 9:45:32	Linear	1/Conc	0.002450	0.183861	0.000000	1.000000
	As 189.042 {478}	4/6/2015 10:12:52	4/6/2015 9:45:32	Linear	1/Conc	-0.000241	0.205986	0.000000	1.000000
	Ba 455.403 { 74}	4/6/2015 10:12:52	4/6/2015 9:45:32	Linear	1/Conc	0.011141	10.955070	0.000000	1.000000
	Be 313.042 {108}	4/6/2015 10:12:52	4/6/2015 9:45:32	Linear	1/Conc	-0.000286	8.112992	0.000000	1.000000
	Ca 317.933 {106}	4/6/2015 10:12:52	4/6/2015 9:45:32	Linear	1/Conc	0.007837	0.262063	0.000000	1.000000
	Cd 226.502 {449}	4/6/2015 10:12:52	4/6/2015 9:45:32	Linear	1/Conc	0.000295	5.110998	0.000000	1.000000
	Co 228.616 {447}	4/6/2015 10:12:52	4/6/2015 9:45:32	Linear	1/Conc	0.000613	2.408271	0.000000	1.000000
	Cr 267.716 {126}	4/6/2015 10:12:52	4/6/2015 9:45:32	Linear	1/Conc	0.000187	0.517470	0.000000	1.000000
	Cu 324.754 {104}	4/6/2015 10:12:52	4/6/2015 9:45:32	Linear	1/Conc	0.003695	0.801180	0.000000	1.000000
	Fe 259.940 {130}	4/6/2015 10:12:52	4/6/2015 9:45:32	Linear	1/Conc	0.003176	0.125167	0.000000	1.000000
	In 230.606 {446}*	4/6/2015 10:12:52	5/5/2010 12:30:54	Linear	1/Conc	0.000000	0.000000	0.000000	1.000000
	K 766.490 { 44}	4/6/2015 10:12:52	4/6/2015 9:45:32	Linear	1/Conc	-0.007447	0.162664	0.000000	1.000000
	Mg 279.079 {121}	4/6/2015 10:12:52	4/6/2015 9:45:32	Linear	1/Conc	0.000135	0.022687	0.000000	1.000000
	Mn 257.610 {131}	4/6/2015 10:12:52	4/6/2015 9:45:32	Linear	1/Conc	0.000592	2.907258	0.000000	1.000000
	Mo 202.030 {467}	4/6/2015 10:12:52	4/6/2015 9:45:32	Linear	1/Conc	0.002728	1.213025	0.000000	1.000000
	Na 589.592 { 57}	4/6/2015 10:12:52	4/6/2015 9:45:32	Linear	1/Conc	-0.008813	0.542034	0.000000	1.000000
	Ni 231.604 {445}	4/6/2015 10:12:52	4/6/2015 9:45:32	Linear	1/Conc	0.000097	1.371846	0.000000	1.000000
	Pb 220.353 {453}	4/6/2015 10:12:52	4/6/2015 9:45:32	Linear	1/Conc	0.000019	1.263150	0.000000	1.000000
	Sb 206.833 {463}	4/6/2015 10:12:52	4/6/2015 9:45:32	Linear	1/Conc	0.000856	0.249786	0.000000	1.000000
	Se 196.090 {472}	4/6/2015 10:12:52	4/6/2015 9:45:32	Linear	1/Conc	-0.000413	0.150158	0.000000	1.000000
	Si 212.412 {459}	4/6/2015 10:12:52	4/6/2015 9:45:32	Linear	1/Conc	0.007907	0.382043	0.000000	1.000000
	Sn 189.989 {477}	4/6/2015 10:12:52	4/6/2015 9:45:32	Linear	1/Conc	0.000585	0.463787	0.000000	1.000000
	Sr 407.771 { 83}	4/6/2015 10:12:52	4/6/2015 9:45:32	Linear	1/Conc	0.002684	18.556286	0.000000	1.000000
	Ti 334.941 {101}	4/6/2015 10:12:52	4/6/2015 9:45:32	Linear	1/Conc	0.002590	1.901358	0.000000	1.000000
	Tl 190.856 {477}	4/6/2015 10:12:52	4/6/2015 9:45:32	Linear	1/Conc	-0.003165	0.623739	0.000000	1.000000
	V 292.402 {115}	4/6/2015 10:12:52	4/6/2015 9:45:32	Linear	1/Conc	-0.000180	0.699873	0.000000	1.000000
	Y 224.306 {450}*	<not fit>	<Never Calibrated>	Linear	1/Conc	0.000000	0.000000	0.000000	1.000000
	Y 360.073 { 94}*	<not fit>	<Never Calibrated>	Linear	1/Conc	0.000000	0.000000	0.000000	1.000000
	Y 371.030 { 91}*	<not fit>	<Never Calibrated>	Linear	1/Conc	0.000000	0.000000	0.000000	1.000000
	Zn 206.200 {463}	4/6/2015 10:12:52	4/6/2015 9:45:32	Linear	1/Conc	0.003459	3.100231	0.000000	1.000000

Element, Wavelength and Order	Correlation	Std Error of Est	Predicted MDL	Predicted MQL	Status	Reslope		QC Norm	
						Slope	Y-int	Slope factor	Offset
Ag 328.068 {103}	0.999952	0.000053	0.000420	0.001401	OK.	1.000000	0.000000	1	0
Al 396.152 { 85}	0.999938	0.003309	0.010896	0.036322	OK.	1.000000	0.000000	1	0
As 189.042 {478}	0.999946	0.000172	0.000671	0.002236	OK.	1.000000	0.000000	1	0
Ba 455.403 { 74}	0.999964	0.007444	0.000254	0.000846	OK.	1.000000	0.000000	1	0
Be 313.042 {108}	0.999978	0.004361	0.000092	0.000308	OK.	1.000000	0.000000	1	0
Ca 317.933 {106}	0.999991	0.001770	0.003495	0.011650	OK.	1.000000	0.000000	1	0
Cd 226.502 {449}	0.999958	0.003778	0.000042	0.000141	OK.	1.000000	0.000000	1	0
Co 228.616 {447}	0.999936	0.002194	0.000096	0.000319	OK.	1.000000	0.000000	1	0
Cr 267.716 {126}	0.999979	0.000267	0.000288	0.000959	OK.	1.000000	0.000000	1	0
Cu 324.754 {104}	0.999957	0.000597	0.000275	0.000916	OK.	1.000000	0.000000	1	0
Fe 259.940 {130}	0.999978	0.001328	0.003394	0.011315	OK.	1.000000	0.000000	1	0
In 230.606 {446}*	0.000000	0.000000	-1.000000	-1.000000	Warnin	1.000000	0.000000	1	0
K 766.490 { 44}	0.999937	0.002939	0.026343	0.087811	OK.	1.000000	0.000000	1	0
Mg 279.079 {121}	0.999987	0.000187	0.024017	0.080055	OK.	1.000000	0.000000	1	0
Mn 257.610 {131}	0.999966	0.001931	0.000044	0.000148	OK.	1.000000	0.000000	1	0
Mo 202.030 {467}	0.999934	0.001124	0.000119	0.000396	OK.	1.000000	0.000000	1	0
Na 589.592 { 57}	0.999968	0.007001	0.007936	0.026452	OK.	1.000000	0.000000	1	0
Ni 231.604 {445}	0.999926	0.001347	0.000164	0.000547	OK.	1.000000	0.000000	1	0
Pb 220.353 {453}	0.999840	0.001835	0.000450	0.001501	OK.	1.000000	0.000000	1	0
Sb 206.833 {463}	0.999927	0.000243	0.000905	0.003015	OK.	1.000000	0.000000	1	0
Se 196.090 {472}	0.999962	0.000106	0.001415	0.004716	OK.	1.000000	0.000000	1	0
Si 212.412 {459}	0.980609	0.006267	0.000423	0.001411	OK.	1.000000	0.000000	1	0
Sn 189.989 {477}	0.999691	0.000929	0.000251	0.000838	OK.	1.000000	0.000000	1	0
Sr 407.771 { 83}	0.999906	0.020454	0.000092	0.000306	OK.	1.000000	0.000000	1	0
Ti 334.941 {101}	0.999955	0.001449	0.000119	0.000397	OK.	1.000000	0.000000	1	0
Tl 190.856 {477}	0.999979	0.000315	0.000588	0.001961	OK.	1.000000	0.000000	1	0
V 292.402 {115}	0.999933	0.000649	0.000272	0.000905	OK.	1.000000	0.000000	1	0
Y 224.306 {450}*	0.000000	0.000000	-1.000000	-1.000000	Warnin	1.000000	0.000000	1	0
Y 360.073 { 94}*	0.000000	0.000000	-1.000000	-1.000000	Warnin	1.000000	0.000000	1	0
Y 371.030 { 91}*	0.000000	0.000000	-1.000000	-1.000000	Warnin	1.000000	0.000000	1	0
Zn 206.200 {463}	0.999953	0.002421	0.000050	0.000168	OK.	1.000000	0.000000	1	0

Zoom In
Zoom Out

Sample Name: Blank Acquired: 4/7/2015 9:45:23 Type: Cal
Method: 60102007_042011(v215) Mode: IR Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.0020	.0035	-.0004	-.0028	-.0001	.0087	-.0016	-.0006	-.0004
Stddev	.0002	.0040	.0001	.0019	.0007	.0009	.0007	.0003	.0002
%RSD	7.657	114.7	24.19	66.50	856.7	9.721	42.59	51.94	47.73
#1	.0020	.0003	-.0004	-.0013	.0001	.0096	-.0010	-.0004	-.0006
#2	.0021	.0022	-.0004	-.0049	.0005	.0087	-.0014	-.0010	-.0002
#3	.0018	.0081	-.0003	-.0022	-.0009	.0079	-.0023	-.0005	-.0005

Elem	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.0033	.0014	-.0102	-.0008	.0006	.0009	.0185	.0016	-.0036
Stddev	.0002	.0002	.0040	.0003	.0002	.0002	.0025	.0004	.0002
%RSD	6.188	14.70	39.54	30.91	32.09	23.07	13.29	25.53	6.571
#1	.0031	.0013	-.0148	-.0011	.0008	.0011	.0182	.0013	-.0034
#2	.0031	.0013	-.0089	-.0006	.0004	.0010	.0162	.0020	-.0036
#3	.0035	.0017	-.0070	-.0008	.0005	.0007	.0211	.0013	-.0039

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.0011	-.0006	.0039	.0008	.0013	.0016	-.0021	-.0009	.0020
Stddev	.0003	.0002	.0001	.0001	.0019	.0000	.0005	.0002	.0003
%RSD	24.42	29.88	1.445	13.15	149.3	1.686	23.57	17.11	14.04
#1	.0008	-.0008	.0039	.0010	.0029	.0016	-.0024	-.0010	.0020
#2	.0013	-.0004	.0040	.0008	.0017	.0017	-.0025	-.0007	.0023
#3	.0010	-.0006	.0040	.0007	-.0008	.0017	-.0016	-.0010	.0018

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3843.3	8203.3	58958.	5837.5
Stddev	11.3	27.0	246.	18.7
%RSD	.29445	.32875	.41717	.31954
#1	3830.7	8173.7	59190.	5827.3
#2	3852.6	8226.5	58700.	5859.1
#3	3846.7	8209.6	58985.	5826.2

Zoom In
Zoom Out

Sample Name: LowStd Acquired: 4/7/2015 9:49:08 Type: Cal
Method: 60102007_042011(v215) Mode: IR Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.0365	1.502	.0874	3.604	3.444	2.970	2.581	1.265	.2490	.3300
Stddev	.0004	.007	.0003	.009	.012	.007	.003	.001	.0005	.0009
%RSD	1.073	.4368	.3533	.2467	.3554	.2377	.1317	.0769	.1964	.2611
#1	.0365	1.505	.0877	3.613	3.456	2.978	2.578	1.264	.2495	.3304
#2	.0369	1.494	.0874	3.603	3.444	2.966	2.585	1.266	.2487	.3306
#3	.0362	1.505	.0871	3.595	3.432	2.966	2.580	1.264	.2487	.3290

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1.936	.5977	.3527	1.425	.5137	2.197	.6906	.5054	.1024	.0664
Stddev	.014	.0031	.0005	.001	.0009	.006	.0013	.0015	.0002	.0003
%RSD	.7116	.5229	.1549	.0914	.1675	.2539	.1811	.2983	.1777	.5187
#1	1.942	.5984	.3530	1.426	.5132	2.204	.6898	.5040	.1026	.0667
#2	1.946	.6004	.3530	1.426	.5147	2.194	.6920	.5052	.1024	.0660
#3	1.920	.5943	.3521	1.424	.5133	2.194	.6900	.5070	.1022	.0666

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.2447	.2490	5.589	.7692	.1640	.2755	1.601
Stddev	.0005	.0004	.016	.0005	.0007	.0001	.001
%RSD	.1873	.1561	.2843	.0712	.4356	.0428	.0686
#1	.2446	.2487	5.597	.7698	.1646	.2755	1.601
#2	.2452	.2495	5.600	.7688	.1632	.2754	1.602
#3	.2443	.2489	5.571	.7690	.1641	.2756	1.600

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3501.0	8017.1	56982.	5756.7
Stddev	1.7	4.5	51.	40.1
%RSD	.04891	.05557	.08986	.69708
#1	3502.7	8016.8	56993.	5712.8
#2	3499.3	8012.8	56926.	5765.8
#3	3501.0	8021.7	57027.	5791.5

Zoom In
Zoom Out

Sample Name: MidStd Acquired: 4/7/2015 9:52:48 Type: Cal
Method: 60102007_042011(v215) Mode: IR Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.1365	6.194	.3596	14.39	14.00	12.23	10.32	5.011	.9918	1.300
Stddev	.0003	.044	.0005	.10	.11	.12	.01	.004	.0002	.002
%RSD	.2147	.7167	.1476	.7060	.8097	.9461	.0575	.0754	.0215	.1311
#1	.1367	6.245	.3591	14.50	14.11	12.35	10.32	5.007	.9921	1.300
#2	.1366	6.163	.3596	14.37	13.99	12.21	10.33	5.014	.9916	1.298
#3	.1362	6.173	.3601	14.30	13.89	12.12	10.32	5.010	.9918	1.301

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	8.133	2.504	1.449	5.610	2.022	8.965	2.718	2.104	.4111	.2719
Stddev	.063	.018	.011	.046	.004	.085	.003	.007	.0003	.0008
%RSD	.7794	.7367	.7474	.8171	.2126	.9450	.0962	.3244	.0832	.3110
#1	8.206	2.523	1.461	5.568	2.017	9.052	2.717	2.097	.4111	.2711
#2	8.101	2.503	1.445	5.604	2.025	8.958	2.722	2.107	.4115	.2719
#3	8.091	2.486	1.441	5.659	2.024	8.883	2.717	2.110	.4109	.2728

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.7038	.9581	21.62	3.001	.6716	1.087	6.372
Stddev	.0008	.0015	.16	.007	.0034	.002	.005
%RSD	.1179	.1610	.7373	.2475	.5025	.1412	.0794
#1	.7029	.9567	21.80	3.003	.6687	1.088	6.377
#2	.7041	.9598	21.57	3.007	.6753	1.087	6.371
#3	.7045	.9578	21.50	2.993	.6708	1.085	6.367

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3179.5	7707.7	54998.	5711.6
Stddev	2.0	11.5	112.	82.0
%RSD	.06398	.14879	.20273	1.4363
#1	3181.3	7694.6	54871.	5644.9
#2	3177.3	7712.3	55080.	5686.6
#3	3179.9	7716.1	55042.	5803.2

Zoom In
Zoom Out

Sample Name: HighStd Acquired: 4/7/2015 9:56:42 Type: Cal
Method: 60102007_042011(v215) Mode: IR Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.2703	12.49	.7345	28.88	27.89	24.41	20.67	10.05	1.987	2.599
Stddev	.0005	.03	.0009	.04	.09	.07	.02	.02	.006	.007
%RSD	.1907	.2101	.1215	.1532	.3305	.2984	.1003	.1706	.2861	.2607
#1	.2706	12.50	.7355	28.88	27.84	24.37	20.69	10.06	1.986	2.594
#2	.2697	12.51	.7341	28.93	28.00	24.49	20.68	10.06	1.981	2.596
#3	.2706	12.46	.7338	28.84	27.84	24.36	20.65	10.03	1.993	2.607

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	16.14	5.045	2.889	11.19	4.032	17.85	5.443	4.353	.8371	.5527
Stddev	.02	.017	.006	.13	.003	.04	.015	.003	.0008	.0014
%RSD	.1107	.3448	.2062	1.182	.0645	.2099	.2793	.0618	.1007	.2469
#1	16.15	5.030	2.890	11.24	4.034	17.82	5.445	4.351	.8380	.5538
#2	16.15	5.064	2.894	11.30	4.033	17.89	5.457	4.352	.8368	.5532
#3	16.12	5.041	2.883	11.05	4.029	17.84	5.426	4.356	.8364	.5512

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1.103	1.891	41.57	5.852	1.364	2.178	12.79
Stddev	.002	.003	.97	.048	.005	.007	.02
%RSD	.1989	.1400	2.325	.8247	.3364	.3033	.1672
#1	1.105	1.893	41.64	5.897	1.364	2.185	12.80
#2	1.101	1.891	42.50	5.801	1.359	2.175	12.81
#3	1.102	1.888	40.57	5.857	1.369	2.174	12.77

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2951.3	7405.3	53400.	5641.5
Stddev	2.3	12.0	35.	44.8
%RSD	.07646	.16237	.06572	.79375
#1	2950.6	7395.6	53427.	5651.3
#2	2949.5	7401.5	53413.	5592.6
#3	2953.9	7418.7	53360.	5680.5

Zoom In Zoom Out

Sample Name: HSTD Acquired: 4/7/2015 10:00:57 Type: QC
Method: 60102007_042011(v215) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4993	80.15	4.050	3.994	3.994	79.96	4.009	4.010	3.999	3.998
Stddev	.0029	.86	.009	.040	.052	.96	.006	.008	.034	.028
%RSD	.5767	1.079	.2161	1.005	1.300	1.203	.1586	.1977	.8589	.7038
#1	.4973	80.73	4.054	4.019	4.033	80.58	4.013	4.018	3.969	3.970
#2	.4979	79.16	4.040	3.948	3.935	78.85	4.001	4.002	3.993	3.999
#3	.5026	80.57	4.056	4.016	4.014	80.44	4.011	4.010	4.037	4.026
Check ?	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass
Value										
Range										

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	79.63	80.31	79.73	3.952	4.001	79.77	4.011	4.058	4.039	4.042
Stddev	.91	.82	1.04	.070	.009	.88	.008	.002	.002	.007
%RSD	1.142	1.020	1.302	1.768	.2117	1.102	.1976	.0539	.0585	.1852
#1	80.13	80.67	80.45	3.918	4.008	80.37	4.020	4.055	4.038	4.050
#2	78.58	79.38	78.54	3.905	3.992	78.76	4.004	4.059	4.037	4.036
#3	80.17	80.89	80.20	4.032	4.004	80.18	4.009	4.058	4.042	4.040
Check ?	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass
Value										
Range										

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	3.497	3.980	3.958	3.928	4.011	4.017	4.013
Stddev	.007	.008	.183	.057	.005	.035	.009
%RSD	.1956	.2054	4.628	1.449	.1339	.8655	.2265
#1	3.502	3.988	4.121	3.940	4.007	3.983	4.022
#2	3.489	3.972	3.760	3.867	4.017	4.016	4.004
#3	3.499	3.981	3.992	3.979	4.009	4.053	4.012
Check ?	None	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass
Value							
Range							

Zoom In Zoom Out

Sample Name: HSTD Acquired: 4/7/2015 10:00:57 Type: QC
Method: 60102007_042011(v215) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2949.8	7390.1	53599.	5621.3
Stddev	1.8	22.2	527.	101.4
%RSD	.06052	.30079	.98290	1.8039
#1	2949.0	7376.3	53877.	5532.7
#2	2951.8	7415.8	53929.	5731.9
#3	2948.5	7378.4	52992.	5599.2

Zoom In Zoom Out

Sample Name: ICV Acquired: 4/7/2015 10:07:12 Type: QC
Method: 60102007_042011(v215) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2522	42.11	2.045	2.118	2.060	42.97	2.023	2.053	2.049	2.018
Stddev	.0012	.11	.005	.007	.008	.18	.002	.004	.004	.004
%RSD	.4682	.2587	.2618	.3483	.3701	.4274	.1103	.1722	.2123	.1754
#1	.2508	42.17	2.052	2.122	2.065	43.06	2.025	2.056	2.045	2.015
#2	.2529	42.19	2.044	2.122	2.064	43.10	2.023	2.054	2.048	2.016
#3	.2528	41.99	2.041	2.109	2.052	42.76	2.020	2.049	2.054	2.022
Check ?	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass
Value										
Range										

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	41.77	42.66	41.78	2.081	1.965	42.52	2.080	2.022	2.028	2.044
Stddev	.05	.21	.10	.025	.001	.15	.003	.005	.001	.004
%RSD	.1207	.4855	.2498	1.192	.0411	.3624	.1271	.2689	.0386	.1744
#1	41.75	42.78	41.74	2.053	1.965	42.65	2.083	2.028	2.029	2.047
#2	41.83	42.78	41.90	2.098	1.966	42.55	2.079	2.020	2.028	2.040
#3	41.74	42.42	41.70	2.093	1.965	42.35	2.079	2.018	2.028	2.044
Check ?	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass
Value										
Range										

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4135	2.074	2.047	2.027	2.078	1.960	2.066
Stddev	.0019	.001	.006	.003	.005	.009	.002
%RSD	.4635	.0601	.2821	.1642	.2487	.4733	.0984
#1	.4128	2.075	2.050	2.025	2.084	1.952	2.067
#2	.4156	2.074	2.051	2.025	2.076	1.956	2.068
#3	.4120	2.072	2.041	2.031	2.074	1.970	2.064
Check ?	None	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass
Value							
Range							

Zoom In Zoom Out

Sample Name: ICV Acquired: 4/7/2015 10:07:12 Type: QC
Method: 60102007_042011(v215) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3171.0	7661.4	54287.	5613.8
Stddev	7.3	21.9	488.	64.3
%RSD	.22887	.28586	.89855	1.1457
#1	3167.6	7663.5	54755.	5616.6
#2	3166.1	7638.6	54324.	5548.1
#3	3179.3	7682.2	53782.	5676.6

Zoom In
Zoom Out

Sample Name: ICB Acquired: 4/7/2015 10:14:49 Type: QC
Method: 60102007_042011(v215) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0007	-.0036	.0008	-.0006	-.0001	-.0010	.0000	.0000	.0000	-.0001
Stddev	.0005	.0192	.0008	.0005	.0000	.0018	.000	.000	.0002	.0003
%RSD	74.03	530.9	97.44	83.97	17.40	187.4	254.2	44.62	1395.	300.4
#1	.0007	.0176	.0010	-.0011	-.0001	.0011	-.0001	-.0001	-.0002	-.0002
#2	.0012	-.0197	.0014	.0000	-.0001	-.0022	-.0001	.0000	.0001	.0002
#3	.0002	-.0088	-.0001	-.0008	-.0001	-.0019	.0001	.0000	.0001	-.0003
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0006	.0531	.0151	-.0001	-.0001	-.0575	.0001	-.0004	.0017	-.0008
Stddev	.0021	.0503	.0042	.0000	.0000	.0171	.0001	.0006	.0013	.0021
%RSD	367.8	94.73	27.69	16.81	86.61	29.68	137.8	127.2	77.23	249.6
#1	-.0003	.0348	.0107	-.0001	-.0001	-.0558	.0001	-.0008	.0029	.0014
#2	-.0028	.1099	.0190	-.0001	-.0001	-.0413	.0000	-.0007	.0019	-.0011
#3	.0014	.0145	.0157	-.0001	.0000	-.0753	.0003	.0002	.0003	-.0028
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0006	.0000	-.0002	.0000	.0008	-.0006	-.0002
Stddev	.0002	.000	.0001	.0001	.0004	.0003	.0000
%RSD	26.44	1227.	38.67	504.9	49.54	47.61	18.03
#1	.0008	-.0002	-.0002	.0000	.0012	-.0009	-.0002
#2	.0006	.0002	-.0003	-.0001	.0008	-.0003	-.0003
#3	.0005	-.0001	-.0001	.0001	.0004	-.0006	-.0002
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Zoom In
Zoom Out

Sample Name: ICB Acquired: 4/7/2015 10:14:49 Type: QC
Method: 60102007_042011(v215) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3788.6	8046.2	57809.	5705.9
Stddev	11.5	17.5	85.	55.1
%RSD	.30299	.21697	.14774	.96508
#1	3799.4	8066.2	57883.	5649.5
#2	3789.8	8038.0	57827.	5708.6
#3	3776.6	8034.3	57716.	5759.5

Zoom In
Zoom Out

Sample Name: CRIA Acquired: 4/7/2015 10:19:20 Type: QC
Method: 60102007_042011(v215) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0102	.2221	.0103	.2095	.0049	1.063	.0052	.0541	.0106	.0275
Stddev	.0007	.0238	.0005	.0007	.0001	.005	.0000	.0001	.0001	.0001
%RSD	6.880	10.71	5.316	.3134	1.357	.5009	.9442	.1362	.9609	.5069
#1	.0106	.2250	.0107	.2089	.0048	1.065	.0052	.0542	.0108	.0274
#2	.0105	.2443	.0097	.2093	.0050	1.057	.0052	.0541	.0106	.0277
#3	.0094	.1970	.0105	.2102	.0049	1.067	.0051	.0541	.0106	.0274
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value										
Range										

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.3222	10.61	5.290	.0162	.0503	10.61	.0438	.0047	.0059	.0096
Stddev	.0021	.10	.051	.0001	.0003	.05	.0003	.0007	.0003	.0022
%RSD	.6529	.9203	.9637	.4426	.5386	.4443	.7150	15.40	4.874	23.41
#1	.3246	10.52	5.341	.0163	.0500	10.67	.0439	.0044	.0062	.0071
#2	.3208	10.59	5.290	.0163	.0506	10.59	.0440	.0055	.0056	.0103
#3	.3211	10.71	5.239	.0161	.0503	10.58	.0435	.0042	.0059	.0114
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value										
Range										

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0451	.0540	.0101	.0104	.0105	.0492	.0223
Stddev	.0011	.0003	.0003	.0003	.0003	.0002	.0001
%RSD	2.443	.5063	3.023	3.135	2.471	.4496	.3548
#1	.0456	.0541	.0103	.0101	.0102	.0490	.0222
#2	.0438	.0541	.0103	.0103	.0105	.0491	.0223
#3	.0458	.0536	.0098	.0108	.0107	.0494	.0224
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Zoom In
Zoom Out

Sample Name: CRIA Acquired: 4/7/2015 10:19:20 Type: QC
Method: 60102007_042011(v215) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3579.0	7963.1	56897.	5685.9
Stddev	15.0	24.1	231.	26.5
%RSD	.41825	.30256	.40657	.46524
#1	3570.7	7943.1	56648.	5664.1
#2	3570.1	7956.2	56937.	5678.2
#3	3596.3	7989.8	57106.	5715.3

Zoom In Zoom Out

Sample Name: ICSA Acquired: 4/7/2015 10:25:48 Type: QC
Method: 60102007_042011(v216) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0007	508.7	-.0002	-.0007	-.0001	482.3	.0000	.0001	.0003	.0009
Stddev	.0006	10.0	.0017	.0002	.0001	6.6	.0000	.0001	.0002	.0006
%RSD	89.20	1.965	829.1	26.68	160.6	1.367	180.4	136.3	75.33	62.06
#1	.0002	497.3	.0017	-.0005	.0000	489.6	.0001	.0002	.0005	.0014
#2	.0004	513.0	-.0009	-.0009	-.0002	476.7	.0000	.0000	.0002	.0010
#3	.0013	515.9	-.0014	-.0007	.0000	480.6	.0000	.0000	.0001	.0003
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	188.9	.0586	494.6	.0006	.0000	.8615	-.0002	-.0004	.0000	.0000
Stddev	.8	.0437	3.8	.0000	.001	.0307	.0004	.0049	.003	.0014
%RSD	.4137	74.55	.7678	3.919	8407.	3.558	155.7	1393.	7311.	2834.
#1	189.0	.0612	494.7	.0006	.0000	.8264	-.0002	.0053	.0026	-.0015
#2	189.6	.0137	498.3	.0007	.0004	.8751	-.0006	-.0029	.0001	.0006
#3	188.1	.1009	490.7	.0006	-.0005	.8830	.0001	-.0034	-.0027	.0011
Check ?	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0247	.0008	.0005	-.0005	-.0011	.0000	.0006
Stddev	.0006	.0005	.0002	.0003	.0012	.0006	.0001
%RSD	2.433	60.93	36.66	53.72	107.5	3952.	21.83
#1	.0243	.0009	.0008	-.0007	-.0024	-.0007	.0005
#2	.0244	.0003	.0004	-.0006	-.0005	.0003	.0007
#3	.0254	.0012	.0004	-.0002	-.0003	.0004	.0007
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Zoom In Zoom Out

Sample Name: ICSA Acquired: 4/7/2015 10:25:48 Type: QC
Method: 60102007_042011(v216) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2842.3	7148.1	49396.	5387.4
Stddev	17.0	35.0	534.	58.6
%RSD	.59865	.48946	1.0819	1.0876
#1	2858.5	7182.8	48859.	5415.3
#2	2843.7	7148.5	49928.	5320.1
#3	2824.6	7112.9	49402.	5426.8

Zoom In Zoom Out

Sample Name: ICSAB Acquired: 4/7/2015 10:33:39 Type: QC
Method: 60102007_042011(v216) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.033	507.4	1.072	.5302	.5167	498.6	.9461	.4856	.5046	.5498
Stddev	.005	4.4	.002	.0071	.0060	10.5	.0012	.0005	.0035	.0030
%RSD	.4917	.8769	.1729	1.338	1.152	2.110	.1290	.0927	.7001	.5398
#1	1.027	512.0	1.070	.5382	.5234	486.6	.9447	.4851	.5011	.5465
#2	1.037	507.1	1.073	.5273	.5145	503.0	.9469	.4857	.5045	.5505
#3	1.035	503.1	1.074	.5249	.5121	506.1	.9466	.4860	.5082	.5523
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value										
Range										

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	196.5	.0821	501.3	.5168	.9618	.9030	.9794	.9680	1.075	1.042
Stddev	2.6	.0192	6.1	.0030	.0023	.0164	.0008	.0036	.004	.003
%RSD	1.325	23.43	1.220	.5771	.2361	1.818	.0850	.3694	.3822	.2530
#1	199.5	.0642	508.3	.5133	.9595	.8862	.9787	.9657	1.076	1.045
#2	194.9	.1024	497.1	.5185	.9640	.9039	.9792	.9721	1.079	1.040
#3	195.0	.0797	498.4	.5185	.9619	.9190	.9804	.9661	1.071	1.041
Check ?	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value										
Range										

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1054	.9692	1.063	1.031	.9738	.4799	.9795
Stddev	.0006	.0029	.015	.005	.0041	.0016	.0014
%RSD	.5847	.2941	1.414	.4760	.4232	.3349	.1396
#1	.1049	.9678	1.080	1.026	.9723	.4788	.9779
#2	.1053	.9725	1.055	1.033	.9784	.4818	.9801
#3	.1061	.9674	1.054	1.035	.9706	.4792	.9804
Check ?	None	Chk Pass	None	None	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Zoom In Zoom Out

Sample Name: ICSAB Acquired: 4/7/2015 10:33:39 Type: QC
Method: 60102007_042011(v216) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2821.9	7158.8	49465.	5265.0
Stddev	8.9	8.5	500.	29.1
%RSD	.31371	.11819	1.0100	.55366
#1	2823.6	7168.1	50033.	5240.1
#2	2812.3	7151.5	49265.	5297.1
#3	2829.7	7156.7	49096.	5257.7

Zoom In Zoom Out

Sample Name: CCV Acquired: 4/7/2015 10:40:18 Type: QC
Method: 60102007_042011(v216) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2500	40.07	1.999	1.972	1.986	39.94	2.014	2.006	2.020	2.012
Stddev	.0012	.13	.002	.002	.004	.06	.003	.002	.003	.004
%RSD	.4806	.3147	.0935	.1077	.2244	.1395	.1530	.1053	.1403	.1868
#1	.2486	40.06	2.001	1.970	1.981	39.90	2.015	2.008	2.022	2.009
#2	.2508	39.94	1.998	1.972	1.988	39.92	2.010	2.004	2.022	2.016
#3	.2505	40.19	1.998	1.974	1.989	40.00	2.016	2.006	2.017	2.011
Check ?	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass
Value										
Range										

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	41.13	40.21	40.60	2.016	2.009	39.68	2.001	1.976	2.002	2.008
Stddev	.12	.15	.10	.016	.001	.02	.001	.004	.007	.004
%RSD	.2969	.3716	.2531	.8117	.0679	.0502	.0664	.2265	.3689	.1994
#1	41.12	40.04	40.50	2.004	2.011	39.66	2.003	1.976	2.010	2.008
#2	41.01	40.23	40.60	2.010	2.008	39.67	2.001	1.971	1.997	2.013
#3	41.26	40.34	40.70	2.035	2.009	39.70	2.000	1.980	1.999	2.005
Check ?	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass
Value										
Range										

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.255	2.020	2.031	2.024	1.997	1.992	2.005
Stddev	.003	.001	.004	.005	.004	.000	.002
%RSD	.1358	.0713	.1957	.2310	.1740	.0096	.0946
#1	2.257	2.022	2.030	2.028	1.998	1.992	2.007
#2	2.251	2.020	2.028	2.025	1.993	1.992	2.003
#3	2.256	2.020	2.035	2.019	2.000	1.992	2.003
Check ?	None	Chk	Pass	Chk	Pass	Chk	Pass
Value							
Range							

Zoom In Zoom Out

Sample Name: CCV Acquired: 4/7/2015 10:40:18 Type: QC
Method: 60102007_042011(v216) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3193.5	7702.7	54897.	5548.4
Stddev	4.9	3.4	101.	48.8
%RSD	.15428	.04359	.18320	.87930
#1	3196.0	7702.9	54808.	5527.8
#2	3196.8	7706.0	55006.	5604.1
#3	3187.9	7699.3	54878.	5513.3

Zoom In Zoom Out

Sample Name: CCB Acquired: 4/7/2015 10:48:15 Type: QC
Method: 60102007_042011(v216) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0002	.0206	-.0003	-.0001	.0001	.0066	.0000	-.0001	-.0001	-.0001
Stddev	.0007	.0169	.0007	.0003	.0001	.0038	.0000	.0001	.0004	.0003
%RSD	286.6	82.01	191.1	199.5	76.28	57.19	191.5	93.23	615.8	584.0
#1	-.0002	.0351	-.0005	.0002	.0002	.0106	.0000	.0000	.0003	.0000
#2	-.0001	.0249	-.0009	-.0003	.0001	.0062	.0001	-.0001	.0000	.0002
#3	.0010	.0020	.0004	-.0002	.0000	.0030	.0000	-.0001	-.0005	-.0004
Check ?	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass
High Limit										
Low Limit										

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0040	.1031	.0438	.0000	-.0003	.0297	.0001	-.0006	.0000	-.0006
Stddev	.0053	.0567	.0284	.0000	.0001	.0116	.0003	.0011	.000	.0018
%RSD	132.8	54.96	64.82	91.93	53.71	39.26	401.0	169.3	2927.	292.7
#1	.0094	.1497	.0538	.0001	-.0002	.0177	.0002	-.0004	.0001	.0010
#2	.0040	.1196	.0658	.0000	-.0004	.0409	-.0003	-.0018	.0003	-.0002
#3	-.0013	.0400	.0118	.0000	-.0002	.0305	.0003	.0003	-.0005	-.0026
Check ?	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass
High Limit										
Low Limit										

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0015	-.0001	.0000	.0000	.0000	-.0005	-.0002
Stddev	.0008	.0001	.000	.000	.001	.0004	.0001
%RSD	56.87	103.4	426.4	338.4	1453.	74.65	45.58
#1	.0006	-.0003	-.0001	.0000	-.0007	-.0001	-.0001
#2	.0022	.0000	.0001	.0001	.0000	-.0009	-.0002
#3	.0017	-.0001	-.0002	-.0001	.0006	-.0005	-.0001
Check ?	None	Chk	Pass	Chk	Pass	Chk	Pass
High Limit							
Low Limit							

Zoom In Zoom Out

Sample Name: CCB Acquired: 4/7/2015 10:48:15 Type: QC
Method: 60102007_042011(v216) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3838.2	8093.6	58513.	5626.1
Stddev	4.8	10.8	337.	11.9
%RSD	.12602	.13308	.57654	.21107
#1	3839.5	8106.0	58829.	5619.2
#2	3832.9	8088.2	58158.	5619.2
#3	3842.3	8086.5	58553.	5639.8

Zoom In Zoom Out

Sample Name: MP28764-MB1 Acquired: 4/7/2015 10:52:07 Type: QC
Method: 60102007_042011(v216) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0002	.0154	-.0004	-.0008	.0000	.0082	-.0001	-.0002	.0001	.0000
Stddev	.0004	.0095	.0005	.0001	.000	.0025	.0000	.0001	.0002	.0002
%RSD	203.7	61.68	100.8	19.15	2562.	30.14	8.306	40.52	184.0	636.6
#1	.0005	.0089	-.0003	-.0006	.0001	.0075	-.0001	-.0001	.0000	.0002
#2	.0003	.0110	-.0001	-.0009	-.0002	.0109	-.0001	-.0003	.0003	.0000
#3	-.0002	.0263	-.0010	-.0008	.0001	.0062	-.0001	-.0002	.0000	-.0001
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0047	.0374	.0035	-.0001	-.0001	.0292	.0001	-.0008	.0012	-.0007
Stddev	.0008	.0530	.0094	.0000	.0001	.0078	.0004	.0008	.0022	.0009
%RSD	16.34	141.8	271.5	15.29	101.0	26.71	516.9	99.37	190.7	128.0
#1	.0053	.0257	.0135	-.0001	.0000	.0287	.0005	-.0016	-.0002	.0003
#2	.0039	.0952	-.0051	-.0001	-.0002	.0217	-.0003	.0001	.0037	-.0014
#3	.0050	-.0088	.0020	-.0001	-.0001	.0373	.0000	-.0010	.0000	-.0011
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0217	.0003	-.0002	.0002	-.0009	-.0003	.0001
Stddev	.0013	.0002	.0000	.0002	.0009	.0005	.0001
%RSD	6.213	48.77	18.95	100.6	103.5	152.5	71.89
#1	.0203	.0005	-.0002	.0000	-.0015	-.0001	.0001
#2	.0217	.0002	-.0002	.0004	-.0013	-.0009	.0000
#3	.0230	.0003	-.0002	.0002	.0002	.0000	.0002
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Zoom In Zoom Out

Sample Name: MP28764-MB1 Acquired: 4/7/2015 10:52:07 Type: QC
Method: 60102007_042011(v216) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3778.5	8067.0	58273.	5636.4
Stddev	9.9	19.4	16.	54.1
%RSD	.26104	.24048	.02774	.95995
#1	3767.4	8044.7	58287.	5659.7
#2	3781.6	8079.4	58277.	5574.6
#3	3786.4	8077.0	58255.	5675.0

Zoom In Zoom Out

Sample Name: MP28764-B1 Acquired: 4/7/2015 10:56:37 Type: QC
Method: 60102007_042011(v216) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0512	28.44	2.169	2.120	.0524	26.06	.0539	.5417	.2240	.2771
Stddev	.0008	.09	.005	.002	.0001	.07	.0001	.0013	.0005	.0018
%RSD	1.517	.3050	.2418	.0884	.1522	.2747	.2303	.2412	.2162	.6554
#1	.0506	28.43	2.163	2.118	.0524	26.13	.0538	.5402	.2234	.2783
#2	.0510	28.35	2.172	2.122	.0525	25.99	.0538	.5422	.2241	.2750
#3	.0521	28.52	2.173	2.120	.0524	26.07	.0540	.5426	.2244	.2780
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value										
Range										

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	27.83	26.23	26.51	.5513	.5219	26.04	.5471	.5283	.5405	2.147
Stddev	.06	.09	.09	.0010	.0014	.08	.0006	.0019	.0027	.008
%RSD	.2087	.3460	.3381	.1770	.2646	.3078	.1146	.3687	.5026	.3830
#1	27.81	26.34	26.60	.5502	.5207	26.12	.5464	.5263	.5382	2.138
#2	27.77	26.17	26.51	.5520	.5216	25.97	.5475	.5285	.5398	2.153
#3	27.89	26.19	26.42	.5516	.5234	26.03	.5474	.5301	.5435	2.151
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value										
Range										

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0308	.5388	.5219	.5220	2.109	.5038	.5401
Stddev	.0011	.0016	.0006	.0014	.004	.0021	.0011
%RSD	3.628	.2918	.1195	.2644	.1952	.4220	.2080
#1	.0295	.5372	.5227	.5235	2.104	.5061	.5391
#2	.0314	.5390	.5217	.5207	2.111	.5020	.5400
#3	.0316	.5403	.5215	.5220	2.112	.5033	.5413
Check ?	None	Chk Pass	None	None	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Zoom In Zoom Out

Sample Name: MP28764-B1 Acquired: 4/7/2015 10:56:37 Type: QC
Method: 60102007_042011(v216) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3306.1	7688.7	54482.	5465.7
Stddev	1.6	9.9	369.	33.9
%RSD	.04785	.12823	.67792	.62060
#1	3307.3	7699.3	54075.	5456.6
#2	3304.3	7687.0	54576.	5503.3
#3	3306.7	7679.8	54795.	5437.3

Zoom In
Zoom Out

Sample Name: FA23126-1 Acquired: 4/7/2015 11:00:58 Type: Unk
Method: 60102007_042011(v216) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	.0006	.0407	.0017	.0964	-.0001	73.31	-.0002	.0004	.0005	.0003
Stddev	.0003	.0011	.0006	.0005	.0001	.04	.0000	.0001	.0002	.0004
%RSD	49.86	2.605	38.35	.5080	50.05	.0491	4.809	11.70	33.28	133.4
#1	.0008	.0397	.0023	.0967	-.0001	73.27	-.0002	.0005	.0003	.0002
#2	.0009	.0418	.0017	.0958	-.0001	73.34	-.0002	.0005	.0006	.0000
#3	.0003	.0406	.0010	.0965	-.0002	73.31	-.0002	.0004	.0005	.0007

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	4.250	4.013	25.57	.0254	.0011	57.25	.0005	.0011	.0015	-.0011
Stddev	.028	.042	.02	.0001	.0002	.10	.0003	.0005	.0007	.0030
%RSD	.6679	1.053	.0826	.2558	20.44	.1822	55.39	49.43	43.61	263.2
#1	4.233	4.061	25.59	.0253	.0009	57.14	.0008	.0013	.0023	.0015
#2	4.283	3.993	25.58	.0254	.0011	57.35	.0003	.0005	.0009	-.0006
#3	4.234	3.984	25.55	.0255	.0013	57.26	.0003	.0014	.0014	-.0044

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	2.837	.0004	.1076	.0025	.0005	-.0003	.0064
Stddev	.006	.0002	.0001	.0003	.0006	.0003	.0000
%RSD	.2139	39.11	.1373	13.29	122.0	112.8	.4926
#1	2.834	.0004	.1075	.0022	.0012	-.0006	.0064
#2	2.832	.0002	.1075	.0028	.0004	.0000	.0064
#3	2.844	.0005	.1078	.0026	-.0001	-.0003	.0065

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	3299.0	7639.5	54208.	5498.0
Stddev	5.0	12.8	247.	78.6
%RSD	.15119	.16801	.45592	1.4296
#1	3293.7	7625.0	54034.	5506.9
#2	3303.6	7644.3	54098.	5415.3
#3	3299.8	7649.3	54491.	5571.8

Zoom In
Zoom Out

Sample Name: MP28764-D1 Acquired: 4/7/2015 11:05:25 Type: Unk
Method: 60102007_042011(v216) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	.0009	.0294	.0017	.0953	-.0002	72.85	-.0001	.0004	.0006	.0003
Stddev	.0004	.0113	.0008	.0003	.0000	.11	.0000	.0000	.0003	.0004
%RSD	47.14	38.49	44.87	.3210	24.85	.1509	12.53	5.561	49.33	116.3
#1	.0007	.0275	.0017	.0949	-.0001	72.76	-.0001	.0003	.0003	.0006
#2	.0014	.0191	.0009	.0954	-.0002	72.83	-.0001	.0004	.0007	-.0001
#3	.0006	.0415	.0024	.0955	-.0002	72.98	-.0001	.0004	.0008	.0004

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	4.221	3.972	25.42	.0253	.0010	56.84	.0004	.0006	.0011	-.0015
Stddev	.017	.037	.05	.0001	.0002	.08	.0003	.0011	.0004	.0016
%RSD	.3938	.9398	.2038	.2530	19.08	.1492	85.99	164.9	38.18	107.7
#1	4.226	3.947	25.48	.0253	.0009	56.83	.0004	.0016	.0011	.0000
#2	4.202	4.015	25.38	.0253	.0009	56.76	.0008	-.0005	.0006	-.0032
#3	4.234	3.954	25.41	.0252	.0012	56.93	.0001	.0008	.0014	-.0012

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	2.829	.0001	.1067	.0022	-.0016	-.0002	.0064
Stddev	.005	.0003	.0005	.0004	.0003	.0007	.0001
%RSD	.1911	339.5	.4764	19.20	16.14	313.7	.9916
#1	2.823	.0002	.1066	.0017	-.0019	.0006	.0064
#2	2.833	-.0003	.1062	.0024	-.0015	-.0007	.0063
#3	2.830	.0003	.1072	.0024	-.0015	-.0006	.0064

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	3290.6	7607.0	53896.	5459.8
Stddev	6.4	13.0	112.	40.6
%RSD	.19310	.17037	.20834	.74408
#1	3284.0	7597.1	53808.	5423.7
#2	3291.0	7602.3	53857.	5451.9
#3	3296.7	7621.7	54022.	5503.8

Zoom In
Zoom Out

Sample Name: MP28764-SD1 Acquired: 4/7/2015 11:09:50 Type: Unk
Method: 60102007_042011(v216) Mode: CONC Corr. Factor: 5.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	.0005	.0445	-.0006	.0925	-.0004	70.93	-.0005	.0001	.0002	.0007
Stddev	.0050	.0576	.0049	.0022	.0004	.08	.0002	.0005	.0009	.0009
%RSD	920.2	129.5	873.2	2.378	113.8	.1093	37.57	445.4	387.5	134.3
#1	-.0053	.1017	.0003	.0938	-.0007	70.85	-.0004	-.0004	-.0002	.0016
#2	.0030	-.0136	.0038	.0938	-.0006	70.92	-.0007	.0003	-.0003	-.0002
#3	.0039	.0453	-.0058	.0899	.0001	71.00	-.0004	.0004	.0012	.0007

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	4.021	4.188	24.87	.0233	-.0006	55.63	.0002	-.0033	.0028	-.0022
Stddev	.005	.231	.02	.0007	.0005	.12	.0016	.0020	.0019	.0031
%RSD	.1256	5.519	.0871	2.860	88.62	.2098	712.2	62.45	66.47	140.8
#1	4.023	4.372	24.88	.0226	-.0005	55.50	-.0016	-.0045	.0011	.0000
#2	4.016	3.929	24.84	.0239	-.0012	55.73	.0008	-.0043	.0047	-.0058
#3	4.026	4.265	24.88	.0234	-.0001	55.65	.0014	-.0009	.0025	-.0009

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	2.723	-.0009	.1011	.0039	-.0057	-.0030	.0069
Stddev	.003	.0015	.0014	.0010	.0075	.0022	.0005
%RSD	.1023	178.1	1.361	26.54	130.4	70.95	7.011
#1	2.722	-.0001	.1004	.0037	-.0143	-.0009	.0073
#2	2.726	-.0026	.1003	.0029	-.0018	-.0030	.0064
#3	2.721	.0001	.1027	.0050	-.0010	-.0052	.0071

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	3657.3	8046.7	57473.	5697.6
Stddev	8.4	32.4	422.	33.5
%RSD	.22840	.40258	.73468	.58783
#1	3659.5	8076.0	57868.	5659.2
#2	3648.1	8011.9	57028.	5721.1
#3	3664.4	8052.2	57521.	5712.3

Zoom In
Zoom Out

Sample Name: MP28764-PS1 Acquired: 4/7/2015 11:14:18 Type: Unk
Method: 60102007_042011(v216) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	.0545	2.766	.1154	.3632	.0542	76.81	.0560	.0564	.0572	.1130
Stddev	.0002	.024	.0003	.0019	.0004	.40	.0000	.0001	.0007	.0001
%RSD	.3516	.8748	.2697	.5281	.6652	.5144	.0669	.0972	1.295	.0825
#1	.0546	2.742	.1153	.3641	.0542	76.90	.0560	.0565	.0581	.1131
#2	.0542	2.791	.1157	.3645	.0546	77.15	.0561	.0564	.0568	.1130
#3	.0546	2.766	.1151	.3610	.0538	76.38	.0560	.0564	.0568	.1129

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	7.371	14.50	29.93	.0818	.1110	66.71	.1139	.0553	.1143	.1097
Stddev	.040	.16	.18	.0001	.0001	.38	.0003	.0003	.0012	.0006
%RSD	.5379	1.109	.5940	.1711	.1226	.5693	.2647	.5645	1.026	.5902
#1	7.381	14.57	29.87	.0818	.1110	66.90	.1140	.0556	.1140	.1097
#2	7.405	14.61	30.13	.0820	.1111	66.94	.1141	.0550	.1156	.1103
#3	7.328	14.32	29.79	.0817	.1108	66.27	.1135	.0552	.1133	.1090

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	2.786	.0538	.1577	.1110	.1059	.0528	.2868
Stddev	.003	.0004	.0010	.0003	.0005	.0006	.0004
%RSD	.1227	.7734	.6065	.2523	.4670	1.157	.1227
#1	2.782	.0542	.1580	.1113	.1060	.0521	.2865
#2	2.786	.0534	.1584	.1109	.1053	.0532	.2868
#3	2.789	.0539	.1566	.1108	.1063	.0532	.2872

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	3253.1	7588.4	54120.	5508.1
Stddev	5.6	11.3	260.	56.1
%RSD	.17064	.14880	.48052	1.0188
#1	3248.8	7575.7	54061.	5492.4
#2	3259.4	7592.2	54404.	5461.6
#3	3251.0	7597.2	53894.	5570.4

Zoom In Zoom Out

Sample Name: MP28764-S1 Acquired: 4/7/2015 11:18:40 Type: Unk
Method: 60102007_042011(v216) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)
Avg	.0522	28.70	2.241	2.230	.0528	98.70	.0542	.5422	.2255
Stddev	.0005	.04	.002	.007	.0004	.37	.0001	.0010	.0008
%RSD	.8981	.1470	.0973	.3369	.7659	.3795	.1882	.1810	.3531
#1	.0527	28.69	2.239	2.222	.0525	98.30	.0541	.5417	.2246
#2	.0520	28.66	2.243	2.231	.0525	98.75	.0541	.5416	.2261
#3	.0519	28.74	2.240	2.237	.0532	99.04	.0543	.5434	.2259

Elem	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
IS Ref	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)
Avg	.2783	32.20	30.30	51.90	.5820	.5259	F81.95	.5459	.5360
Stddev	.0004	.08	.21	.11	.0018	.0010	.25	.0004	.0015
%RSD	.1461	.2419	.7049	.2162	.3138	.1824	.3066	.0759	.2759
#1	.2780	32.17	30.05	51.80	.5834	.5263	81.66	.5457	.5353
#2	.2788	32.13	30.39	51.89	.5799	.5249	82.08	.5463	.5351
#3	.2782	32.28	30.45	52.02	.5827	.5267	82.10	.5455	.5378

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	.5556	2.215	2.860	.5340	.6286	.5231	2.110	.5111	.5483
Stddev	.0032	.008	.004	.0002	.0008	.0011	.004	.0015	.0004
%RSD	.5838	.3721	.1499	.0464	.1328	.2014	.2019	.2843	.0668
#1	.5521	2.210	2.858	.5338	.6279	.5225	2.105	.5117	.5479
#2	.5563	2.210	2.857	.5342	.6284	.5243	2.111	.5095	.5483
#3	.5585	2.225	2.865	.5339	.6295	.5225	2.113	.5122	.5486

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	3133.8	7443.5	52814.	5454.5
Stddev	8.2	12.2	9.	10.0
%RSD	.26069	.16363	.01676	.18371
#1	3129.1	7432.8	52815.	5444.4
#2	3129.0	7441.0	52822.	5464.5
#3	3143.2	7456.8	52804.	5454.6

Zoom In Zoom Out

Sample Name: MP28764-S2 Acquired: 4/7/2015 11:23:01 Type: Unk
Method: 60102007_042011(v216) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)
Avg	.0515	28.52	2.239	2.232	.0529	98.63	.0541	.5413	.2251
Stddev	.0004	.11	.003	.011	.0000	.39	.0001	.0007	.0009
%RSD	.8242	.3725	.1322	.4796	.0869	.3940	.1928	.1265	.3891
#1	.0514	28.43	2.242	2.230	.0528	98.64	.0540	.5419	.2242
#2	.0519	28.48	2.238	2.223	.0529	98.24	.0542	.5406	.2259
#3	.0511	28.64	2.236	2.244	.0528	99.01	.0542	.5416	.2253

Elem	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
IS Ref	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)
Avg	.2787	32.02	30.35	51.84	.5810	.5271	F81.98	.5437	.5357
Stddev	.0003	.09	.13	.06	.0009	.0014	.34	.0001	.0019
%RSD	.0913	.2770	.4378	.1117	.1554	.2667	.4126	.0181	.3522
#1	.2785	31.96	30.30	51.90	.5810	.5268	81.92	.5436	.5336
#2	.2790	31.97	30.25	51.78	.5819	.5258	81.68	.5438	.5373
#3	.2785	32.12	30.50	51.84	.5800	.5286	82.35	.5438	.5361

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	.5526	2.210	2.847	.5346	.6305	.5246	2.108	.5118	.5490
Stddev	.0011	.003	.005	.0004	.0029	.0014	.003	.0008	.0005
%RSD	.1992	.1352	.1800	.0679	.4607	.2606	.1558	.1492	.0938
#1	.5537	2.209	2.842	.5349	.6306	.5237	2.107	.5120	.5496
#2	.5528	2.208	2.845	.5342	.6275	.5240	2.111	.5109	.5486
#3	.5515	2.214	2.852	.5347	.6333	.5262	2.105	.5124	.5489

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	3127.1	7438.7	52922.	5393.3
Stddev	10.0	19.9	394.	46.5
%RSD	.31883	.26787	.74470	.86256
#1	3121.9	7417.8	53071.	5372.0
#2	3120.8	7440.8	52475.	5361.3
#3	3138.6	7457.5	53220.	5446.7

Zoom In Zoom Out

Sample Name: FA23126-2 Acquired: 4/7/2015 11:27:21 Type: Unk
Method: 60102007_042011(v216) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	.0008	.0473	.0014	.0936	-.0001	72.60	-.0002	.0003	.0005	.0005
Stddev	.0007	.0042	.0005	.0001	.0001	.20	.0000	.0001	.0001	.0003
%RSD	94.62	8.853	35.00	.0853	66.72	.2695	4.699	46.90	14.32	61.53
#1	.0005	.0507	.0017	.0937	-.0002	72.38	-.0002	.0003	.0005	.0007
#2	.0016	.0426	.0008	.0936	-.0001	72.64	-.0002	.0001	.0004	.0007
#3	.0002	.0485	.0016	.0936	-.0001	72.76	-.0002	.0003	.0005	.0001

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	4.338	3.942	25.13	.0261	.0010	56.39	.0006	.0013	.0007	-.0022
Stddev	.002	.044	.05	.0001	.0001	.09	.0001	.0010	.0016	.0011
%RSD	.0385	1.115	.1976	.4617	11.28	.1662	9.744	76.77	220.4	50.57
#1	4.339	3.898	25.18	.0259	.0009	56.29	.0006	.0006	.0007	-.0012
#2	4.339	3.940	25.08	.0261	.0011	56.42	.0006	.0008	-.0009	-.0034
#3	4.336	3.986	25.15	.0262	.0009	56.47	.0005	.0024	.0024	-.0020

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	2.846	-.0003	.1055	.0026	-.0006	-.0006	.0079
Stddev	.005	.0004	.0006	.0001	.0014	.0001	.0001
%RSD	.1688	119.3	.5607	4.054	249.0	15.24	1.022
#1	2.851	-.0007	.1060	.0027	.0007	-.0007	.0078
#2	2.842	.0001	.1058	.0026	-.0020	-.0005	.0080
#3	2.846	-.0003	.1048	.0025	-.0004	-.0005	.0080

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	3273.9	7574.6	53499.	5505.8
Stddev	3.0	4.6	372.	65.8
%RSD	.09021	.06037	.69601	1.1960
#1	3272.0	7570.0	53740.	5495.8
#2	3272.4	7574.7	53686.	5576.1
#3	3277.3	7579.1	53070.	5445.5

Zoom In Zoom Out

Sample Name: FA23126-6 Acquired: 4/7/2015 11:31:48 Type: Unk
Method: 60102007_042011(v216) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	.0004	2.859	.0009	.0186	.0001	7.862	-.0001	.0013	.0260	.0015
Stddev	.0002	.086	.0002	.0004	.0000	.266	.0000	.0001	.0005	.0002
%RSD	42.55	3.003	28.47	2.261	28.49	3.379	38.26	6.822	2.029	13.20
#1	.0006	2.940	.0009	.0191	.0001	8.129	-.0001	.0012	.0254	.0013
#2	.0005	2.769	.0006	.0182	.0001	7.598	-.0001	.0012	.0260	.0014
#3	.0002	2.867	.0011	.0186	.0001	7.860	-.0001	.0014	.0265	.0017

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	1.079	2.950	4.946	.0043	-.0001	47.03	.0071	-.0005	.0001	.0014
Stddev	.043	.125	.200	.0000	.0001	1.66	.0003	.0001	.0012	.0019
%RSD	3.956	4.222	4.053	.9688	61.09	3.532	3.671	24.22	1260.	135.8
#1	1.124	3.029	5.151	.0043	-.0002	48.72	.0073	-.0004	.0013	.0031
#2	1.039	2.807	4.750	.0043	-.0001	45.40	.0068	-.0005	-.0011	-.0006
#3	1.075	3.015	4.935	.0044	-.0001	46.97	.0071	-.0006	.0000	.0017

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	3.900	-.0004	.0359	.0179	-.0012	.0146	.0609
Stddev	.009	.0001	.0015	.0003	.0007	.0002	.0002
%RSD	.2183	35.15	4.112	1.520	59.83	1.402	.3671
#1	3.910	-.0005	.0376	.0176	-.0012	.0147	.0611
#2	3.895	-.0002	.0348	.0181	-.0020	.0144	.0607
#3	3.896	-.0004	.0354	.0179	-.0005	.0148	.0609

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	3421.5	8227.5	58936.	5853.6
Stddev	8.5	17.1	548.	169.1
%RSD	.24895	.20777	.92901	2.8893
#1	3414.9	8207.8	59530.	5681.9
#2	3418.4	8238.5	58451.	6020.1
#3	3431.1	8236.2	58826.	5858.7

Zoom In Zoom Out

Sample Name: CCV Acquired: 4/7/2015 11:36:15 Type: QC
Method: 60102007_042011(v216) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2522	40.19	2.063	1.968	1.971	39.84	2.063	2.043	2.056	2.037
Stddev	.0016	.10	.003	.005	.006	.07	.002	.003	.008	.007
%RSD	.6268	.2442	.1378	.2428	.2857	.1781	.0816	.1269	.4087	.3604
#1	.2515	40.25	2.061	1.972	1.966	39.81	2.061	2.040	2.053	2.034
#2	.2540	40.23	2.061	1.969	1.977	39.92	2.064	2.045	2.050	2.032
#3	.2511	40.07	2.066	1.962	1.969	39.79	2.063	2.043	2.066	2.046
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value										
Range										

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	41.38	40.18	40.58	2.041	2.050	39.57	2.019	2.020	2.059	2.059
Stddev	.12	.15	.09	.010	.004	.11	.004	.002	.004	.001
%RSD	.2980	.3730	.2098	.4940	.2215	.2768	.1967	.1193	.2002	.0317
#1	41.40	40.15	40.55	2.051	2.044	39.65	2.015	2.019	2.055	2.059
#2	41.49	40.34	40.68	2.031	2.053	39.61	2.023	2.022	2.063	2.060
#3	41.25	40.04	40.51	2.039	2.052	39.45	2.020	2.017	2.057	2.058
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value										
Range										

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.315	2.049	2.024	2.028	2.044	1.990	2.034
Stddev	.001	.003	.008	.005	.005	.001	.004
%RSD	.0549	.1501	.3917	.2640	.2364	.0717	.1939
#1	2.313	2.046	2.026	2.026	2.042	1.991	2.029
#2	2.315	2.049	2.030	2.023	2.050	1.988	2.036
#3	2.316	2.052	2.015	2.033	2.041	1.991	2.035
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Pass
Value							
Range							

Zoom In Zoom Out

Sample Name: CCV Acquired: 4/7/2015 11:36:15 Type: QC
Method: 60102007_042011(v216) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3176.1	7608.9	54625.	5524.4
Stddev	9.4	16.9	415.	44.6
%RSD	.29648	.22234	.75955	.80684
#1	3183.5	7627.3	54260.	5509.2
#2	3165.5	7594.1	55076.	5489.4
#3	3179.4	7605.4	54539.	5574.6

Zoom In Zoom Out

Sample Name: CCB Acquired: 4/7/2015 11:40:45 Type: QC
Method: 60102007_042011(v216) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F.0011	F.0328	.0004	-.0004	.0001	.0071	.0000	.0000	.0000
Stddev	.0006	.0078	.0003	.0001	.0001	.0029	.0000	.0002	.0002
%RSD	56.61	23.76	77.11	31.91	85.78	40.59	164.7	586.2	641.2
#1	.0012	.0305	.0005	-.0005	.0002	.0104	.0000	-.0001	.0000
#2	.0016	.0415	.0000	-.0002	.0000	.0050	.0000	.0002	-.0001
#3	.0004	.0265	.0005	-.0004	.0002	.0059	.0000	.0000	.0003
Check ?	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	.0010	.0250							
Low Limit	-.0010	-.0250							

Elem	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0004	.0110	.1235	.0122	.0001	.0007	.0407	.0003	-.0006
Stddev	.0006	.0020	.0614	.0078	.0000	.0001	.0105	.0000	.0007
%RSD	155.6	18.55	49.72	63.87	29.59	14.07	25.87	4.704	112.7
#1	.0000	.0125	.1919	.0070	.0001	.0006	.0527	.0003	-.0008
#2	.0010	.0117	.0730	.0085	.0001	.0008	.0332	.0003	-.0013
#3	.0001	.0086	.1056	.0212	.0001	.0007	.0361	.0003	.0002
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0009	-.0004	.0036	.0000	.0000	.0007	.0005	-.0003	-.0001
Stddev	.0007	.0006	.0015	.0002	.0001	.0001	.0006	.0003	.0001
%RSD	77.61	141.9	40.72	1669.	732.8	20.91	118.4	92.29	54.83
#1	.0013	.0002	.0023	.0000	.0000	.0009	.0012	-.0003	-.0001
#2	.0001	-.0010	.0052	.0002	.0001	.0007	.0005	-.0007	-.0001
#3	.0014	-.0004	.0033	-.0001	-.0001	.0006	-.0001	.0000	.0000
Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Zoom In Zoom Out

Sample Name: CCB Acquired: 4/7/2015 11:40:45 Type: QC
Method: 60102007_042011(v216) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3806.1	8024.0	57534.	5552.8
Stddev	7.9	24.2	410.	71.8
%RSD	.20644	.30112	.71289	1.2936
#1	3812.8	8050.4	57246.	5476.8
#2	3797.5	8003.0	57351.	5562.1
#3	3808.1	8018.5	58003.	5619.6

Zoom In Zoom Out

Sample Name: FA23126-1F Acquired: 4/7/2015 11:45:16 Type: Unk
Method: 60102007_042011(v216) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	.0007	.0044	.0014	.0965	.0000	73.84	-.0001	.0004	.0006	.0001
Stddev	.0010	.0204	.0010	.0008	.000	.17	.0000	.0001	.0003	.0003
%RSD	139.2	467.3	68.02	.8242	379.2	.2318	35.20	32.96	45.64	309.0
#1	-.0002	-.0038	.0021	.0956	.0000	73.65	-.0001	.0004	.0005	.0003
#2	.0006	.0276	.0003	.0967	-.0001	73.95	-.0001	.0003	.0009	-.0002
#3	.0018	-.0107	.0019	.0972	.0000	73.93	-.0002	.0006	.0004	.0002

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	4.310	4.036	25.58	.0263	.0013	57.56	.0005	.0006	.0015	.0000
Stddev	.018	.063	.08	.0001	.0001	.15	.0004	.0009	.0004	.000
%RSD	.4277	1.551	.3181	.3801	10.13	.2672	94.95	165.4	28.20	1403.
#1	4.297	3.967	25.49	.0262	.0015	57.43	.0005	.0006	.0010	.0003
#2	4.302	4.050	25.59	.0263	.0012	57.73	.0009	.0014	.0018	.0000
#3	4.331	4.090	25.65	.0264	.0013	57.52	.0000	-.0004	.0016	-.0003

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	2.892	-.0002	.1071	.0022	-.0014	-.0004	.0079
Stddev	.003	.0003	.0001	.0002	.0005	.0003	.0000
%RSD	.0894	138.7	.1107	10.03	34.00	80.76	.2747
#1	2.891	.0000	.1070	.0025	-.0015	-.0007	.0079
#2	2.890	-.0001	.1072	.0021	-.0018	-.0005	.0079
#3	2.895	-.0005	.1072	.0021	-.0009	.0000	.0079

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	3268.5	7569.4	53813.	5443.3
Stddev	6.4	20.4	549.	17.9
%RSD	.19587	.26942	1.0200	.32795
#1	3271.2	7563.4	54121.	5426.9
#2	3273.1	7592.2	54138.	5462.3
#3	3261.2	7552.8	53179.	5440.7

Zoom In Zoom Out

Sample Name: FA23126-2F Acquired: 4/7/2015 11:49:42 Type: Unk
Method: 60102007_042011(v216) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	.0014	.0123	.0010	.0943	-.0001	72.46	-.0002	.0004	.0005	.0000
Stddev	.0005	.0102	.0004	.0003	.0001	.17	.0001	.0001	.0005	.0001
%RSD	33.81	83.26	38.81	.3415	90.28	.2395	26.93	16.13	100.2	260.7
#1	.0016	.0217	.0011	.0942	-.0002	72.28	-.0002	.0003	.0001	-.0001
#2	.0009	.0014	.0014	.0946	-.0001	72.62	-.0003	.0004	.0003	.0001
#3	.0017	.0138	.0006	.0940	.0000	72.48	-.0002	.0004	.0010	.0001

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	4.262	3.922	25.11	.0259	.0011	55.95	.0005	.0006	.0027	.0002
Stddev	.006	.011	.03	.0001	.0002	.16	.0003	.0006	.0008	.0006
%RSD	.1437	.2917	.1208	.2982	21.97	.2811	51.00	107.6	27.58	247.5
#1	4.268	3.909	25.13	.0260	.0008	55.84	.0005	.0010	.0019	.0009
#2	4.256	3.928	25.07	.0259	.0012	56.13	.0002	-.0001	.0033	.0000
#3	4.263	3.929	25.12	.0258	.0012	55.88	.0008	.0008	.0030	-.0002

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	2.826	.0000	.1050	.0019	-.0009	-.0004	.0003
Stddev	.004	.0001	.0003	.0001	.0013	.0006	.0000
%RSD	.1310	3440.	.2835	6.168	147.9	170.2	15.13
#1	2.825	.0001	.1052	.0018	-.0015	-.0011	.0002
#2	2.830	.0000	.1046	.0019	-.0018	.0001	.0003
#3	2.823	-.0001	.1051	.0020	.0006	-.0001	.0003

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	3278.4	7506.1	53407.	5397.4
Stddev	10.4	14.0	228.	27.1
%RSD	.31579	.18587	.42634	.50199
#1	3275.8	7499.2	53153.	5425.2
#2	3289.9	7522.1	53593.	5395.8
#3	3269.7	7497.0	53477.	5371.1

Zoom In Zoom Out

Sample Name: FA23126-6F Acquired: 4/7/2015 11:54:07 Type: Unk
Method: 60102007_042011(v216) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	.0005	1.336	.0010	.0163	-.0001	7.802	-.0001	.0013	.0226	.0009
Stddev	.0005	.006	.0012	.0005	.0002	.033	.0000	.0001	.0002	.0005
%RSD	97.09	.4573	121.0	2.847	300.1	.4285	27.86	8.493	.7850	56.59
#1	.0000	1.331	.0022	.0167	.0001	7.821	-.0001	.0014	.0227	.0006
#2	.0011	1.334	.0010	.0158	-.0002	7.763	-.0002	.0014	.0227	.0014
#3	.0005	1.342	-.0002	.0165	.0000	7.822	-.0002	.0012	.0224	.0006

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	1.032	2.927	4.834	.0043	-.0003	46.29	.0037	.0000	.0008	.0016
Stddev	.007	.065	.034	.0001	.0001	.16	.0001	.0006	.0010	.0010
%RSD	.7205	2.202	.6992	1.773	19.73	.3557	2.169	22830.	124.8	63.21
#1	1.034	2.866	4.838	.0042	-.0003	46.36	.0036	-.0002	-.0003	.0008
#2	1.024	2.995	4.798	.0044	-.0002	46.10	.0037	-.0004	.0016	.0027
#3	1.038	2.920	4.866	.0042	-.0003	46.40	.0038	.0007	.0012	.0013

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	3.037	-.0011	.0290	.0116	-.0016	.0136	.0136
Stddev	.008	.0003	.0003	.0001	.0011	.0002	.0001
%RSD	.2617	24.25	1.095	.9434	69.48	1.374	1.011
#1	3.032	-.0008	.0291	.0116	-.0009	.0133	.0134
#2	3.034	-.0012	.0286	.0115	-.0028	.0136	.0137
#3	3.047	-.0012	.0292	.0117	-.0010	.0137	.0136

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	3387.1	8062.4	57428.	5760.2
Stddev	9.2	26.6	452.	22.3
%RSD	.27040	.33032	.78726	.38777
#1	3395.7	8091.6	57495.	5747.1
#2	3388.2	8056.0	56946.	5747.5
#3	3377.5	8039.5	57842.	5785.9

Zoom In Zoom Out

Sample Name: FA23258-14 Acquired: 4/7/2015 11:58:35 Type: Unk
Method: 60102007_042011(v216) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	.0009	.0158	-.0013	-.0003	-.0002	.0547	-.0002	-.0002	.0001	.0060
Stddev	.0005	.0253	.0001	.0003	.0001	.0025	.0000	.0001	.0001	.0002
%RSD	59.25	159.6	11.27	114.5	57.83	4.591	23.23	47.35	121.0	3.832
#1	.0004	.0417	-.0013	.0000	-.0002	.0574	-.0002	-.0001	.0000	.0058
#2	.0008	.0146	-.0011	-.0007	-.0003	.0542	-.0002	-.0002	.0003	.0060
#3	.0015	-.0088	-.0014	-.0002	-.0001	.0524	-.0001	-.0002	.0001	.0062

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	.0016	.0899	.0320	.0000	-.0004	.0645	.0001	-.0002	.0018	.0000
Stddev	.0023	.0501	.0089	.0000	.0001	.0052	.0002	.0009	.0008	.0008
%RSD	140.1	55.68	27.93	781.0	36.45	8.086	332.1	456.7	40.92	1859.
#1	.0007	.0686	.0361	.0000	-.0004	.0677	.0003	-.0011	.0020	-.0005
#2	.0042	.0540	.0382	.0000	-.0005	.0585	-.0001	.0006	.0025	.0010
#3	.0000	.1471	.0218	.0000	-.0002	.0674	-.0001	-.0001	.0010	-.0003

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	.0302	.0000	-.0002	-.0003	-.0005	-.0003	.0088
Stddev	.0010	.0002	.0001	.0001	.0011	.0004	.0000
%RSD	3.284	543.8	32.26	39.57	232.6	125.4	.4436
#1	.0304	-.0001	-.0001	-.0002	-.0009	-.0001	.0088
#2	.0311	.0002	-.0002	-.0002	.0008	-.0008	.0087
#3	.0292	-.0001	-.0003	-.0004	-.0014	-.0001	.0088

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	3786.7	8008.7	57822.	5567.7
Stddev	4.4	5.7	225.	23.7
%RSD	.11583	.07102	.38990	.42583
#1	3781.9	8007.8	57886.	5591.8
#2	3787.6	8014.8	57571.	5544.4
#3	3790.6	8003.6	58008.	5567.0

Zoom In
Zoom Out

Sample Name: FA23267-1 Acquired: 4/7/2015 12:03:04 Type: Unk
Method: 60102007_042011(v216) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	.0003	3.976	.0013	.0256	-.0001	52.01	-.0001	.0000	.0101	.0013
Stddev	.0009	.004	.0004	.0003	.0001	.05	.0000	.000	.0001	.0006
%RSD	337.6	.1137	31.17	1.152	69.70	.1028	20.57	267.3	.8652	48.13
#1	.0012	3.978	.0008	.0260	.0000	51.95	-.0001	.0000	.0101	.0016
#2	.0003	3.980	.0016	.0254	-.0001	52.06	-.0001	-.0002	.0102	.0017
#3	-.0007	3.971	.0014	.0254	-.0001	52.01	-.0001	.0000	.0100	.0006

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	2.078	2.390	3.816	.0339	.0028	10.68	.0022	.0009	.0008	-.0002
Stddev	.017	.080	.043	.0001	.0002	.01	.0002	.0003	.0004	.0031
%RSD	.7958	3.366	1.127	.3115	5.727	.0953	7.420	37.24	44.37	1721.
#1	2.059	2.413	3.767	.0340	.0026	10.67	.0022	.0005	.0004	-.0032
#2	2.086	2.456	3.848	.0339	.0030	10.69	.0023	.0012	.0008	.0029
#3	2.090	2.300	3.833	.0338	.0027	10.69	.0020	.0010	.0012	-.0003

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	5.060	.0002	.1304	.1457	-.0013	.0197	.0014
Stddev	.004	.0002	.0009	.0044	.0010	.0006	.0000
%RSD	.0835	84.00	.6735	3.023	71.31	3.003	1.998
#1	5.063	.0004	.1298	.1474	-.0024	.0200	.0015
#2	5.055	.0000	.1314	.1490	-.0005	.0200	.0014
#3	5.061	.0003	.1299	.1407	-.0012	.0190	.0015

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	3462.8	7880.9	56284.	5580.0
Stddev	9.7	25.6	237.	29.3
%RSD	.27955	.32526	.42116	.52552
#1	3469.6	7892.4	56017.	5613.3
#2	3451.7	7851.5	56364.	5558.1
#3	3467.0	7898.7	56471.	5568.7

Zoom In
Zoom Out

Sample Name: FA23267-2 Acquired: 4/7/2015 12:07:31 Type: Unk
Method: 60102007_042011(v216) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	-.0001	.9224	.0006	.0459	.0000	136.6	-.0001	.0001	.0074	.0012
Stddev	.0008	.0225	.0012	.0001	.0001	.4	.0000	.0001	.0003	.0002
%RSD	964.6	2.435	200.1	.1449	699.3	.2872	59.03	65.09	3.929	18.06
#1	.0008	.9088	.0006	.0460	-.0001	136.8	.0000	.0002	.0071	.0013
#2	-.0009	.9101	.0017	.0459	.0001	136.1	-.0001	.0001	.0077	.0009
#3	-.0002	.9483	-.0006	.0459	.0000	136.8	-.0001	.0000	.0073	.0012

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	10.29	11.37	11.77	.2129	.0126	16.18	.0025	.0041	.0012	.0011
Stddev	.03	.02	.06	.0004	.0002	.07	.0002	.0004	.0008	.0030
%RSD	.2676	.1767	.4886	.2077	1.527	.4170	6.766	10.31	69.45	276.9
#1	10.28	11.37	11.77	.2124	.0127	16.22	.0024	.0036	.0005	-.0023
#2	10.28	11.35	11.71	.2133	.0124	16.10	.0024	.0043	.0021	.0022
#3	10.33	11.38	11.82	.2131	.0128	16.23	.0027	.0044	.0009	.0033

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	3.652	.0004	.3823	.0247	-.0011	.0085	.0032
Stddev	.013	.0004	.0005	.0041	.0012	.0005	.0000
%RSD	.3532	97.03	.1400	16.54	117.1	5.640	.3823
#1	3.658	.0000	.3828	.0211	.0004	.0090	.0032
#2	3.662	.0006	.3824	.0239	-.0017	.0084	.0032
#3	3.638	.0005	.3818	.0291	-.0018	.0080	.0032

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	3315.6	7553.8	54078.	5486.4
Stddev	12.3	35.9	119.	51.0
%RSD	.37081	.47464	.21956	.93010
#1	3307.1	7530.0	54215.	5431.4
#2	3309.9	7536.4	54007.	5532.2
#3	3329.7	7595.0	54012.	5495.6

Zoom In
Zoom Out

Sample Name: FA23267-1F Acquired: 4/7/2015 12:11:59 Type: Unk
Method: 60102007_042011(v216) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	.0003	.2045	-.0003	.0232	-.0001	47.05	-.0001	-.0002	.0054	.0002
Stddev	.0003	.0137	.0001	.0002	.0002	.19	.0000	.0000	.0002	.0005
%RSD	112.5	6.685	15.69	1.001	128.4	.3963	13.74	20.13	3.896	266.4
#1	.0006	.2177	-.0003	.0231	-.0002	46.97	-.0002	-.0002	.0053	.0007
#2	.0002	.2055	-.0004	.0235	.0001	47.27	-.0001	-.0001	.0052	-.0003
#3	.0000	.1904	-.0003	.0231	-.0003	46.92	-.0001	-.0002	.0056	.0001

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	2.369	2.304	3.566	.0315	.0026	10.13	.0013	.0003	.0018	.0000
Stddev	.006	.024	.038	.0001	.0001	.04	.0001	.0004	.0014	.001
%RSD	.2450	1.051	1.067	.1716	3.496	.3806	8.204	149.5	79.69	2293.
#1	2.370	2.290	3.584	.0316	.0027	10.11	.0014	.0004	.0025	-.0007
#2	2.375	2.290	3.592	.0315	.0025	10.18	.0014	-.0002	.0002	-.0005
#3	2.363	2.332	3.522	.0315	.0026	10.11	.0012	.0006	.0028	.0011

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	1.847	.0000	.1094	.0030	-.0016	.0146	.0032
Stddev	.004	.0003	.0002	.0001	.0015	.0003	.0001
%RSD	.2317	939.1	.2095	4.366	89.91	2.090	2.826
#1	1.843	-.0001	.1094	.0031	-.0033	.0148	.0032
#2	1.849	-.0001	.1096	.0029	-.0010	.0148	.0031
#3	1.851	.0003	.1091	.0030	-.0006	.0143	.0031

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	3480.3	7781.3	56084.	5492.0
Stddev	8.1	15.4	231.	50.8
%RSD	.23226	.19802	.41105	.92571
#1	3471.7	7768.2	56323.	5482.6
#2	3487.8	7798.3	55863.	5446.4
#3	3481.4	7777.4	56066.	5546.8

Zoom In
Zoom Out

Sample Name: FA23267-2F Acquired: 4/7/2015 12:22:34 Type: Unk
Method: 60102007_042011(v216) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	.0012	.2547	-.0004	.0461	-.0001	144.8	-.0001	.0002	.0042	.0001
Stddev	.0004	.0112	.0002	.0002	.0000	.7	.0000	.0002	.0004	.0006
%RSD	32.95	4.386	48.84	.3903	11.70	.4730	17.77	77.14	8.628	573.6
#1	.0007	.2532	-.0002	.0461	-.0002	144.3	-.0001	.0001	.0043	.0001
#2	.0013	.2443	-.0006	.0463	-.0001	144.5	-.0001	.0002	.0045	.0007
#3	.0014	.2665	-.0005	.0459	-.0001	145.6	-.0001	.0004	.0038	-.0005

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	6.263	8.470	13.03	.2268	.0142	14.54	.0027	.0021	.0010	.0005
Stddev	.028	.063	.17	.0001	.0001	.04	.0002	.0004	.0009	.0024
%RSD	.4539	.7454	1.267	.0337	.7416	.2702	7.417	21.66	86.06	499.9
#1	6.232	8.420	12.88	.2268	.0141	14.52	.0026	.0026	.0000	-.0023
#2	6.289	8.541	13.21	.2269	.0143	14.59	.0025	.0018	.0015	.0019
#3	6.266	8.450	13.00	.2268	.0141	14.52	.0029	.0018	.0016	.0018

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	4.806	.0003	.3730	.0026	-.0012	.0042	.0059
Stddev	.014	.0001	.0025	.0001	.0018	.0002	.0001
%RSD	.2814	18.68	.6647	4.682	155.2	3.859	1.990
#1	4.793	.0003	.3715	.0027	.0006	.0041	.0057
#2	4.805	.0003	.3758	.0025	-.0030	.0043	.0059
#3	4.820	.0002	.3715	.0026	-.0011	.0040	.0060

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	3295.0	7489.9	53844.	5483.4
Stddev	8.2	17.4	204.	82.7
%RSD	.24738	.23175	.37903	1.5077
#1	3304.3	7509.3	53651.	5572.7
#2	3289.4	7475.9	53822.	5467.8
#3	3291.2	7484.6	54058.	5409.6

Zoom In Zoom Out

Sample Name: MP28766-MB1 Acquired: 4/7/2015 12:27:10 Type: QC
Method: 60102007_042011(v216) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0005	.0040	-.0007	-.0006	-.0002	.0248	-.0002	-.0002	-.0001	.0001
Stddev	.0004	.0089	.0002	.0006	.0002	.0054	.0000	.0001	.0001	.0005
%RSD	86.09	222.1	32.05	97.15	80.01	21.89	9.499	46.23	141.6	388.7
#1	.0007	.0046	-.0008	-.0008	-.0003	.0310	-.0002	-.0001	.0000	.0005
#2	.0000	.0125	-.0004	-.0011	-.0003	.0220	-.0002	-.0003	-.0001	-.0004
#3	.0006	-.0051	-.0008	.0001	.0000	.0213	-.0002	-.0003	-.0001	.0003
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0022	.0338	.0244	-.0001	-.0004	.0326	.0001	-.0004	.0005	-.0020
Stddev	.0015	.0608	.0147	.0000	.0001	.0165	.0000	.0005	.0011	.0010
%RSD	67.48	179.8	60.35	18.67	13.13	50.64	78.07	129.5	209.2	50.35
#1	-.0011	.0336	.0155	-.0001	-.0004	.0508	.0001	-.0006	-.0001	-.0023
#2	-.0015	-.0269	.0163	-.0001	-.0004	.0286	.0001	.0002	-.0001	-.0028
#3	-.0039	.0948	.0414	-.0001	-.0003	.0185	.0000	-.0007	.0018	-.0009
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0211	.0000	-.0003	-.0002	-.0018	-.0004	.0001
Stddev	.0002	.000	.0001	.0002	.0009	.0003	.0000
%RSD	.7723	108.8	42.55	74.39	52.25	75.20	71.14
#1	.0209	.0000	-.0004	-.0003	-.0020	-.0001	.0000
#2	.0212	.0000	-.0004	-.0003	-.0008	-.0007	.0000
#3	.0210	.0000	-.0002	.0000	-.0026	-.0005	.0001
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Zoom In Zoom Out

Sample Name: MP28766-MB1 Acquired: 4/7/2015 12:27:10 Type: QC
Method: 60102007_042011(v216) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3777.4	8060.3	58596.	5577.3
Stddev	17.8	35.7	356.	26.6
%RSD	.47024	.44279	.60813	.47719
#1	3788.1	8084.1	58983.	5561.5
#2	3787.2	8077.5	58524.	5562.3
#3	3756.9	8019.3	58281.	5608.0

Zoom In Zoom Out

Sample Name: MP28766-B1 Acquired: 4/7/2015 12:31:37 Type: QC
Method: 60102007_042011(v216) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0501	28.49	2.133	2.080	.0518	26.27	.0532	.5325	.2202	.2716
Stddev	.0003	.15	.003	.008	.0002	.18	.0001	.0009	.0006	.0008
%RSD	.6039	.5391	.1425	.3908	.4188	.6726	.1083	.1698	.2775	.2935
#1	.0504	28.37	2.133	2.078	.0519	26.21	.0531	.5316	.2195	.2710
#2	.0498	28.44	2.136	2.073	.0515	26.14	.0532	.5324	.2204	.2725
#3	.0500	28.66	2.130	2.089	.0519	26.47	.0532	.5334	.2207	.2713
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value										
Range										

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	27.90	26.42	26.62	.5428	.5187	26.39	.5383	.5210	.5332	2.117
Stddev	.12	.16	.18	.0012	.0009	.15	.0009	.0009	.0016	.004
%RSD	.4122	.6110	.6627	.2226	.1788	.5533	.1605	.1638	.3045	.1998
#1	27.81	26.45	26.52	.5414	.5177	26.36	.5375	.5200	.5328	2.119
#2	27.85	26.25	26.53	.5437	.5190	26.25	.5380	.5215	.5318	2.121
#3	28.03	26.57	26.83	.5433	.5194	26.54	.5392	.5216	.5350	2.112
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value										
Range										

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0304	.5382	.5183	.5202	2.080	.4980	.5312
Stddev	.0007	.0007	.0031	.0005	.007	.0027	.0006
%RSD	2.442	.1310	.5945	.1027	.3549	.5479	.1133
#1	.0296	.5379	.5157	.5198	2.076	.4950	.5311
#2	.0307	.5377	.5176	.5199	2.075	.5003	.5307
#3	.0310	.5390	.5217	.5208	2.088	.4987	.5319
Check ?	None	Chk Pass	None	None	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Zoom In Zoom Out

Sample Name: MP28766-B1 Acquired: 4/7/2015 12:31:37 Type: QC
Method: 60102007_042011(v216) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3301.8	7692.7	54890.	5423.3
Stddev	5.4	4.3	187.	25.4
%RSD	.16303	.05531	.34053	.46861
#1	3301.1	7690.3	55103.	5450.4
#2	3307.6	7690.3	54755.	5419.5
#3	3296.9	7697.7	54813.	5400.0

Zoom In
Zoom Out

Sample Name: CCV Acquired: 4/7/2015 12:35:59 Type: QC
Method: 60102007_042011(v216) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2551	40.63	2.053	1.996	2.008	40.51	2.061	2.048	2.067	2.053
Stddev	.0021	.07	.001	.003	.005	.04	.002	.000	.003	.007
%RSD	.8330	.1676	.0325	.1403	.2747	.1009	.0787	.0131	.1454	.3314
#1	.2539	40.69	2.053	1.993	2.007	40.48	2.063	2.048	2.069	2.052
#2	.2539	40.63	2.052	1.998	2.014	40.56	2.061	2.047	2.064	2.046
#3	.2575	40.56	2.053	1.996	2.003	40.49	2.059	2.048	2.069	2.060
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value										
Range										

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	41.73	40.95	41.24	2.070	2.050	40.59	2.034	2.023	2.050	2.055
Stddev	.06	.04	.15	.035	.002	.08	.001	.003	.002	.004
%RSD	.1360	.1064	.3754	1.703	.0775	.2026	.0686	.1682	.0980	.1913
#1	41.79	40.99	41.40	2.080	2.048	40.59	2.033	2.021	2.052	2.059
#2	41.72	40.96	41.23	2.030	2.050	40.67	2.035	2.027	2.048	2.052
#3	41.67	40.90	41.09	2.098	2.051	40.51	2.036	2.021	2.050	2.053
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value										
Range										

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.306	2.062	2.055	2.054	2.045	2.018	2.046
Stddev	.002	.002	.001	.008	.003	.005	.002
%RSD	.0921	.1002	.0357	.4046	.1629	.2365	.0719
#1	2.307	2.061	2.054	2.048	2.042	2.014	2.046
#2	2.307	2.064	2.056	2.051	2.049	2.017	2.047
#3	2.303	2.061	2.055	2.063	2.044	2.024	2.045
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Pass
Value							
Range							

Zoom In
Zoom Out

Sample Name: CCV Acquired: 4/7/2015 12:35:59 Type: QC
Method: 60102007_042011(v216) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3182.6	7661.9	54599.	5411.8
Stddev	13.0	22.8	349.	52.0
%RSD	.40913	.29786	.63895	.96129
#1	3190.9	7675.9	54756.	5376.7
#2	3167.6	7635.6	54841.	5387.1
#3	3189.3	7674.3	54199.	5471.5

Zoom In
Zoom Out

Sample Name: CCB Acquired: 4/7/2015 12:40:29 Type: QC
Method: 60102007_042011(v216) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0004	.0233	.0002	-.0001	.0003	.0047	.0000	.0001	.0002
Stddev	.0007	.0161	.0006	.0004	.0000	.0039	.000	.0001	.0002
%RSD	187.3	69.01	344.5	554.1	8.262	82.78	70180.	117.8	155.6
#1	-.0004	.0057	.0007	.0004	.0003	.0087	.0001	.0002	-.0001
#2	.0011	.0271	-.0005	-.0003	.0003	.0047	-.0001	.0000	.0004
#3	.0004	.0372	.0003	-.0003	.0003	.0009	.0000	.0000	.0002
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0007	.0113	.0843	.0144	.0001	.0008	.0105	.0002	-.0007
Stddev	.0000	.0027	.0190	.0257	.0000	.0002	.0051	.0002	.0003
%RSD	6.811	23.93	22.52	178.9	27.40	23.38	48.80	104.5	40.77
#1	.0007	.0143	.0631	.0401	.0001	.0010	.0100	.0001	-.0004
#2	.0007	.0107	.0901	.0143	.0001	.0007	.0159	.0005	-.0007
#3	.0007	.0089	.0997	-.0113	.0001	.0007	.0056	.0001	-.0010
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F.0021	-.0015	.0035	.0002	.0002	.0006	.0004	-.0004	-.0002
Stddev	.0014	.0008	.0007	.0001	.0002	.0002	.0005	.0003	.0000
%RSD	63.61	54.29	20.61	46.75	85.29	37.45	122.0	77.06	31.57
#1	.0027	-.0009	.0042	.0001	.0003	.0008	.0010	-.0006	-.0002
#2	.0006	-.0024	.0036	.0001	.0000	.0007	.0002	-.0005	-.0001
#3	.0031	-.0011	.0028	.0002	.0004	.0004	.0000	-.0001	-.0002
Check ?	Chk Fail	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	.0020								
Low Limit	-.0020								

Zoom In
Zoom Out

Sample Name: CCB Acquired: 4/7/2015 12:40:29 Type: QC
Method: 60102007_042011(v216) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3807.5	8042.5	57976.	5570.7
Stddev	7.1	28.3	365.	72.3
%RSD	.18563	.35250	.63006	1.2978
#1	3813.3	8074.7	57554.	5541.1
#2	3799.6	8021.4	58188.	5653.1
#3	3809.7	8031.3	58185.	5517.8

Zoom In Zoom Out

Sample Name: FA23342-1 Acquired: 4/7/2015 12:44:58 Type: Unk
Method: 60102007_042011(v216) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	.0002	3.202	.0035	.0267	-.0001	10.73	.0001	.0008	.0043	.0101
Stddev	.0006	.025	.0002	.0005	.0001	.03	.0000	.0001	.0002	.0003
%RSD	347.4	.7723	6.602	1.943	93.28	.2371	10.20	7.788	3.658	2.520
#1	.0007	3.197	.0037	.0264	-.0001	10.74	.0001	.0009	.0043	.0102
#2	.0002	3.180	.0034	.0273	-.0001	10.75	.0001	.0008	.0041	.0098
#3	-.0004	3.229	.0033	.0265	.0000	10.70	.0001	.0008	.0044	.0102

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	31.93	2.313	3.629	.1098	.0003	12.48	.0021	.0258	-.0005	.0027
Stddev	.02	.059	.012	.0001	.0002	.05	.0001	.0009	.0003	.0020
%RSD	.0530	2.573	.3396	.1255	74.83	.3682	6.608	3.383	77.32	72.01
#1	31.95	2.368	3.642	.1098	.0005	12.50	.0021	.0256	-.0001	.0043
#2	31.93	2.321	3.628	.1096	.0003	12.52	.0020	.0250	-.0007	.0005
#3	31.92	2.250	3.617	.1099	.0001	12.43	.0023	.0267	-.0006	.0034

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	3.121	.0003	.0651	.0184	-.0013	.0096	.0318
Stddev	.003	.0004	.0002	.0002	.0007	.0002	.0000
%RSD	.1003	121.1	.3298	1.024	55.76	1.590	.1006
#1	3.118	.0000	.0653	.0182	-.0012	.0097	.0317
#2	3.123	.0003	.0652	.0184	-.0020	.0097	.0317
#3	3.123	.0008	.0649	.0186	-.0006	.0094	.0318

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	3540.3	7988.2	57059.	5567.6
Stddev	8.5	18.0	125.	77.0
%RSD	.23936	.22552	.21895	1.3828
#1	3549.5	8005.6	56962.	5506.2
#2	3538.4	7969.6	57014.	5542.7
#3	3532.9	7989.4	57200.	5654.0

Zoom In Zoom Out

Sample Name: MP28766-D1 Acquired: 4/7/2015 12:49:24 Type: Unk
Method: 60102007_042011(v216) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	.0009	7.633	.0047	.0303	-.0001	10.66	.0001	.0007	.0074	.0119
Stddev	.0009	.053	.0002	.0004	.0000	.04	.0000	.0001	.0005	.0002
%RSD	97.41	.6916	3.294	1.360	56.29	.4059	19.17	19.32	7.183	2.042
#1	.0019	7.573	.0048	.0303	-.0001	10.65	.0001	.0008	.0076	.0121
#2	.0007	7.671	.0047	.0299	-.0001	10.62	.0001	.0006	.0078	.0118
#3	.0002	7.656	.0045	.0307	.0000	10.70	.0000	.0009	.0068	.0116

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	32.89	2.354	3.630	.1106	.0001	12.41	.0034	.0261	.0001	.0015
Stddev	.05	.025	.052	.0005	.0001	.04	.0002	.0009	.0011	.0021
%RSD	.1500	1.066	1.448	.4210	94.88	.3098	6.826	3.456	1593.	142.8
#1	32.90	2.383	3.663	.1108	.0000	12.45	.0037	.0255	-.0009	.0039
#2	32.84	2.341	3.569	.1110	.0001	12.37	.0032	.0256	.0013	.0000
#3	32.93	2.339	3.657	.1101	.0002	12.41	.0035	.0271	-.0002	.0005

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	6.114	.0003	.0654	.2887	-.0013	.0135	.0331
Stddev	.001	.0001	.0005	.0083	.0007	.0004	.0002
%RSD	.0201	42.44	.7779	2.873	57.39	2.786	.6724
#1	6.113	.0004	.0650	.2983	-.0014	.0137	.0333
#2	6.114	.0004	.0653	.2847	-.0020	.0131	.0331
#3	6.115	.0002	.0660	.2832	-.0005	.0138	.0328

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	3520.4	7968.2	56895.	5515.5
Stddev	9.3	20.3	260.	30.2
%RSD	.26545	.25456	.45784	.54784
#1	3525.8	7959.0	56671.	5529.2
#2	3509.6	7954.1	56835.	5536.5
#3	3525.8	7991.4	57181.	5480.9

Zoom In Zoom Out

Sample Name: MP28766-SD1 Acquired: 4/7/2015 12:53:51 Type: Unk
Method: 60102007_042011(v216) Mode: CONC Corr. Factor: 5.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	.0051	3.281	.0043	.0274	-.0009	12.14	-.0002	.0006	.0038	.0144
Stddev	.0033	.067	.0006	.0025	.0006	.03	.0002	.0003	.0008	.0016
%RSD	65.78	2.028	14.02	9.102	72.51	.2495	86.90	59.75	20.90	10.75
#1	.0030	3.352	.0040	.0291	-.0003	12.16	-.0003	.0002	.0047	.0157
#2	.0033	3.272	.0039	.0246	-.0008	12.15	-.0002	.0007	.0038	.0148
#3	.0089	3.220	.0050	.0287	-.0016	12.10	.0000	.0008	.0030	.0127

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	32.82	3.723	3.821	.1149	-.0029	14.22	.0029	.0256	-.0001	-.0066
Stddev	.16	.271	.043	.0001	.0004	.27	.0007	.0027	.0067	.0042
%RSD	.5011	7.276	1.118	.0542	14.27	1.934	22.16	10.74	8437.	63.19
#1	32.99	3.463	3.858	.1149	-.0026	14.19	.0031	.0250	-.0067	-.0038
#2	32.83	3.703	3.831	.1150	-.0034	14.50	.0035	.0231	-.0002	-.0114
#3	32.66	4.003	3.774	.1149	-.0027	13.96	.0022	.0285	.0066	-.0046

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	3.287	-.0004	.0667	.0172	-.0049	.0076	.0414
Stddev	.002	.0019	.0011	.0018	.0030	.0019	.0005
%RSD	.0468	473.4	1.694	10.58	61.77	24.32	1.153
#1	3.285	.0010	.0678	.0187	-.0081	.0087	.0409
#2	3.288	-.0025	.0656	.0178	-.0046	.0055	.0418
#3	3.287	.0004	.0668	.0152	-.0021	.0087	.0416

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	3697.7	8024.9	57396.	5608.2
Stddev	4.8	13.1	355.	62.1
%RSD	.12900	.16296	.61823	1.1082
#1	3702.4	8039.9	57738.	5658.3
#2	3697.7	8019.5	57030.	5538.7
#3	3692.9	8015.5	57420.	5627.7

Zoom In Zoom Out

Sample Name: MP28766-PS1 Acquired: 4/7/2015 12:58:32 Type: Unk
Method: 60102007_042011(v216) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	.0534	5.716	.1115	.2863	.0516	15.68	.0539	.0547	.0596	.1195
Stddev	.0006	.011	.0013	.0022	.0002	.09	.0001	.0002	.0006	.0016
%RSD	1.202	.1959	1.189	.7538	.4710	.5523	.2088	.2899	.9657	1.354
#1	.0541	5.724	.1130	.2879	.0519	15.78	.0538	.0546	.0602	.1214
#2	.0532	5.703	.1111	.2838	.0514	15.62	.0540	.0549	.0595	.1183
#3	.0529	5.720	.1105	.2871	.0515	15.64	.0540	.0546	.0590	.1189

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	34.02	12.48	8.468	.1641	.1051	22.85	.1110	.0774	.1074	.1059
Stddev	.10	.02	.043	.0021	.0003	.10	.0002	.0006	.0007	.0023
%RSD	.2977	.1968	.5022	1.253	.2933	.4367	.2063	.7551	.6984	2.187
#1	34.11	12.46	8.420	.1665	.1053	22.96	.1110	.0770	.1082	.1074
#2	33.91	12.48	8.486	.1631	.1054	22.79	.1112	.0772	.1068	.1071
#3	34.03	12.51	8.499	.1628	.1048	22.79	.1107	.0781	.1071	.1032

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	3.087	.0526	.1148	.1231	.1039	.0600	.2983
Stddev	.003	.0004	.0003	.0020	.0004	.0011	.0002
%RSD	.0853	.7758	.3028	1.601	.3580	1.770	.0739
#1	3.085	.0530	.1151	.1253	.1039	.0609	.2981
#2	3.086	.0522	.1148	.1222	.1043	.0602	.2985
#3	3.090	.0526	.1144	.1217	.1035	.0588	.2982

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	3461.5	7933.3	56096.	5623.9
Stddev	8.7	18.5	1074.	26.1
%RSD	.25229	.23293	1.9139	.46408
#1	3471.3	7946.0	54896.	5652.2
#2	3454.5	7912.1	56430.	5600.7
#3	3458.7	7941.9	56964.	5618.8

Zoom In
Zoom Out

Sample Name: MP28766-S1 Acquired: 4/7/2015 13:02:56 Type: Unk
Method: 60102007_042011(v216) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	.0521	40.34	2.167	2.169	.0530	37.57	.0541	.5398	.2362	.2909
Stddev	.0003	.11	.001	.003	.0004	.09	.0002	.0004	.0015	.0002
%RSD	.5993	.2648	.0654	.1323	.6642	.2317	.3776	.0663	.6359	.0830
#1	.0523	40.23	2.167	2.167	.0529	37.60	.0539	.5397	.2353	.2907
#2	.0517	40.37	2.166	2.167	.0526	37.47	.0543	.5402	.2353	.2912
#3	.0522	40.43	2.169	2.172	.0533	37.63	.0539	.5395	.2379	.2910

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	62.11	29.36	30.90	.6715	.5204	39.24	.5465	.5645	.5056	2.096
Stddev	.09	.03	.13	.0014	.0002	.10	.0004	.0035	.0006	.005
%RSD	.1418	.1179	.4278	.2073	.0443	.2494	.0754	.6226	.1160	.2467
#1	62.18	29.39	30.86	.6699	.5205	39.17	.5464	.5648	.5051	2.094
#2	62.01	29.37	30.79	.6724	.5204	39.19	.5470	.5609	.5062	2.102
#3	62.13	29.32	31.04	.6723	.5201	39.35	.5462	.5679	.5055	2.092

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	7.508	.5344	.6005	.8483	2.142	.5240	.5714
Stddev	.063	.0009	.0012	.0057	.006	.0004	.0004
%RSD	.8353	.1728	.1976	.6728	.2749	.0854	.0662
#1	7.552	.5351	.5998	.8549	2.145	.5238	.5711
#2	7.535	.5348	.5999	.8455	2.135	.5238	.5718
#3	7.436	.5334	.6019	.8446	2.146	.5245	.5713

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	3238.1	7706.0	54284.	5412.6
Stddev	10.9	11.3	314.	47.8
%RSD	.33513	.14640	.57766	.88302
#1	3239.0	7719.0	54594.	5463.2
#2	3248.5	7700.8	54291.	5406.3
#3	3226.9	7698.3	53967.	5368.2

Zoom In
Zoom Out

Sample Name: MP28766-S2 Acquired: 4/7/2015 13:07:18 Type: Unk
Method: 60102007_042011(v216) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	.0518	36.40	2.140	2.188	.0545	38.07	.0535	.5386	.2303	.2891
Stddev	.0007	.14	.007	.003	.0002	.07	.0000	.0004	.0004	.0010
%RSD	1.318	.3907	.3357	.1495	.4111	.1839	.0451	.0730	.1866	.3297
#1	.0522	36.55	2.131	2.192	.0548	38.15	.0535	.5382	.2302	.2891
#2	.0510	36.28	2.144	2.187	.0543	38.03	.0535	.5388	.2308	.2882
#3	.0522	36.36	2.143	2.186	.0546	38.04	.0535	.5389	.2300	.2901

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	60.61	29.83	31.01	.6611	.5149	40.02	.5468	.5608	.4895	2.065
Stddev	.16	.02	.02	.0011	.0010	.12	.0011	.0014	.0006	.002
%RSD	.2707	.0817	.0637	.1637	.1859	.2945	.1932	.2456	.1161	.0918
#1	60.78	29.82	31.01	.6624	.5138	40.12	.5466	.5622	.4900	2.063
#2	60.45	29.86	30.98	.6606	.5154	40.06	.5458	.5594	.4896	2.067
#3	60.60	29.82	31.02	.6604	.5155	39.89	.5479	.5606	.4889	2.065

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	4.369	.5298	.6042	.5362	2.100	.5251	.5696
Stddev	.005	.0008	.0017	.0004	.003	.0019	.0004
%RSD	.1227	.1569	.2832	.0835	.1386	.3604	.0640
#1	4.363	.5289	.6059	.5357	2.103	.5246	.5697
#2	4.373	.5298	.6025	.5364	2.098	.5234	.5692
#3	4.371	.5305	.6041	.5365	2.100	.5271	.5699

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	3243.8	7746.7	55066.	5399.9
Stddev	10.7	16.6	207.	27.0
%RSD	.33093	.21368	.37576	.50076
#1	3232.2	7736.0	55171.	5370.3
#2	3253.4	7765.7	55200.	5406.2
#3	3245.9	7738.2	54828.	5423.2

Zoom In
Zoom Out

Sample Name: FA23342-2 Acquired: 4/7/2015 13:11:40 Type: Unk
Method: 60102007_042011(v216) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	.0009	19.72	.0014	.0514	.0001	.6556	-.0001	.0010	.0163	.0070
Stddev	.0007	.13	.0007	.0004	.0001	.0054	.0001	.0001	.0002	.0003
%RSD	81.54	.6794	50.34	.7358	100.2	.8309	89.39	6.568	1.475	4.320
#1	.0009	19.61	.0007	.0510	.0002	.6527	-.0001	.0010	.0161	.0067
#2	.0002	19.68	.0015	.0518	.0001	.6618	-.0002	.0010	.0165	.0073
#3	.0017	19.86	.0021	.0514	.0000	.6521	.0000	.0011	.0165	.0071

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	5.798	1.865	.8578	.0055	.0003	18.81	.0021	.0048	.0014	.0016
Stddev	.017	.019	.0125	.0000	.0000	.02	.0002	.0011	.0014	.0003
%RSD	.2859	.9955	1.462	.3775	14.60	.1271	9.227	22.85	95.26	20.29
#1	5.779	1.882	.8704	.0055	.0003	18.80	.0018	.0054	.0029	.0013
#2	5.804	1.867	.8453	.0055	.0004	18.79	.0022	.0055	.0013	.0018
#3	5.810	1.845	.8578	.0056	.0003	18.84	.0022	.0035	.0001	.0019

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	14.06	.0010	.0071	.0435	.0009	.0317	.0077
Stddev	.02	.0001	.0001	.0002	.0010	.0004	.0001
%RSD	.1534	6.203	.7751	.4292	107.3	1.248	1.069
#1	14.05	.0011	.0071	.0433	.0002	.0312	.0077
#2	14.05	.0010	.0071	.0436	.0005	.0319	.0078
#3	14.09	.0010	.0072	.0436	.0020	.0319	.0077

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	3513.0	8113.8	57558.	5600.2
Stddev	4.6	9.5	263.	41.4
%RSD	.12968	.11695	.45734	.73847
#1	3517.4	8124.0	57725.	5615.3
#2	3508.3	8105.2	57695.	5631.9
#3	3513.1	8112.1	57255.	5553.4

Zoom In
Zoom Out

Sample Name: FA23342-3 Acquired: 4/7/2015 13:16:08 Type: Unk
Method: 60102007_042011(v216) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	.0007	20.88	.0025	.1827	.0003	13.72	.0000	.0032	.0221	.0192
Stddev	.0007	.07	.0007	.0000	.0001	.06	.000	.0000	.0002	.0004
%RSD	100.9	.3413	27.21	.0260	23.74	.4257	301.2	.5673	.6838	1.830
#1	.0014	20.81	.0027	.1827	.0002	13.66	.0000	.0032	.0220	.0188
#2	.0003	20.87	.0017	.1826	.0003	13.73	.0000	.0032	.0220	.0195
#3	.0003	20.96	.0030	.1827	.0004	13.78	.0000	.0032	.0223	.0193

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	14.07	5.070	4.919	.1590	.0001	28.37	.0076	.0178	-.0011	-.0002
Stddev	.04	.029	.035	.0007	.0001	.16	.0001	.0003	.0008	.0007
%RSD	.2586	.5709	.7044	.4092	166.8	.5578	.7795	1.788	73.34	313.3
#1	14.04	5.068	4.885	.1582	.0001	28.19	.0076	.0175	-.0004	.0003
#2	14.06	5.041	4.916	.1593	-.0001	28.41	.0075	.0177	-.0021	.0001
#3	14.11	5.099	4.954	.1593	.0002	28.50	.0075	.0181	-.0009	-.0010

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	12.05	.0010	.1008	.0839	-.0014	.0584	.0765
Stddev	.01	.0002	.0007	.0004	.0010	.0006	.0000
%RSD	.0666	17.22	.6597	.4932	74.02	1.024	.0605
#1	12.04	.0008	.1003	.0835	-.0017	.0585	.0766
#2	12.04	.0010	.1006	.0843	-.0002	.0578	.0765
#3	12.06	.0011	.1016	.0839	-.0022	.0590	.0765

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	3391.1	8004.0	57003.	5554.2
Stddev	7.0	7.6	389.	47.7
%RSD	.20563	.09481	.68318	.85946
#1	3396.6	8011.4	57452.	5595.7
#2	3383.2	8004.5	56794.	5564.9
#3	3393.4	7996.2	56763.	5502.0

Zoom In Zoom Out

Sample Name: FA23342-4 Acquired: 4/7/2015 13:20:35 Type: Unk
Method: 60102007_042011(v216) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	.0004	4.484	.0010	.1131	.0003	1.278	-.0001	.0022	.0033	.0217
Stddev	.0010	.022	.0013	.0009	.0000	.006	.0000	.0000	.0003	.0002
%RSD	269.3	.4986	129.4	.7880	8.054	.4665	84.84	1.481	9.507	.6963
#1	.0003	4.507	-.0003	.1140	.0003	1.284	-.0001	.0022	.0035	.0216
#2	.0013	4.462	.0023	.1131	.0003	1.277	-.0001	.0022	.0035	.0217
#3	-.0006	4.483	.0010	.1123	.0003	1.273	.0000	.0022	.0030	.0219

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	.9921	.9564	2.203	.0221	-.0004	6.975	.0017	.0018	.0004	.0003
Stddev	.0066	.0317	.029	.0001	.0002	.024	.0003	.0014	.0003	.0018
%RSD	.6653	3.319	1.293	.5779	67.85	.3440	15.80	74.87	74.06	586.5
#1	.9990	.9608	2.229	.0221	-.0003	6.953	.0014	.0018	.0008	.0022
#2	.9859	.9857	2.172	.0222	-.0006	6.971	.0020	.0005	.0002	-.0014
#3	.9913	.9226	2.209	.0220	-.0001	7.000	.0017	.0032	.0003	.0001

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	5.210	.0005	.0259	.0122	-.0004	.0053	.0252
Stddev	.005	.0003	.0003	.0002	.0007	.0003	.0001
%RSD	.0902	72.16	1.033	1.788	188.4	5.616	.2081
#1	5.209	.0001	.0261	.0119	-.0010	.0056	.0253
#2	5.206	.0006	.0256	.0123	.0004	.0051	.0252
#3	5.215	.0007	.0259	.0122	-.0004	.0051	.0252

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	3602.4	8118.2	57624.	5532.9
Stddev	5.8	26.4	385.	26.9
%RSD	.15995	.32478	.66831	.48607
#1	3608.3	8145.4	57772.	5502.1
#2	3602.3	8116.4	57187.	5544.8
#3	3596.8	8092.7	57914.	5551.8

Zoom In Zoom Out

Sample Name: FA23342-5 Acquired: 4/7/2015 13:25:04 Type: Unk
Method: 60102007_042011(v216) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	.0001	32.49	.0059	.1227	.0006	11.05	.0002	.0010	.0383	.0188
Stddev	.0007	.11	.0005	.0003	.0001	.02	.0000	.0001	.0002	.0008
%RSD	824.5	.3284	8.213	.2806	13.89	.2052	18.72	6.895	.4933	4.475
#1	-.0005	32.59	.0055	.1230	.0006	11.07	.0002	.0011	.0381	.0183
#2	.0008	32.38	.0064	.1229	.0006	11.03	.0002	.0010	.0383	.0197
#3	-.0001	32.51	.0058	.1223	.0005	11.04	.0002	.0010	.0385	.0182

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	28.48	2.035	2.018	.0837	.0003	12.10	.0036	.0375	-.0002	.0016
Stddev	.07	.055	.000	.0003	.0001	.03	.0002	.0003	.0010	.0009
%RSD	.2509	2.679	.0170	.3408	46.34	.2166	6.962	.8301	490.3	57.89
#1	28.50	2.068	2.017	.0836	.0003	12.13	.0038	.0379	-.0011	.0025
#2	28.40	1.972	2.018	.0834	.0004	12.08	.0033	.0373	.0009	.0015
#3	28.54	2.064	2.018	.0840	.0002	12.09	.0036	.0374	-.0004	.0007

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	20.14	.0019	.0972	.1032	-.0024	.0777	.2777
Stddev	.04	.0004	.0001	.0004	.0009	.0005	.0002
%RSD	.1995	21.30	.1300	.3600	39.02	.5989	.0569
#1	20.13	.0016	.0972	.1028	-.0032	.0774	.2776
#2	20.11	.0017	.0970	.1036	-.0014	.0774	.2777
#3	20.19	.0023	.0973	.1033	-.0027	.0782	.2779

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	3471.9	8475.0	59559.	5826.2
Stddev	1.1	11.6	462.	32.0
%RSD	.03198	.13702	.77595	.54964
#1	3470.9	8475.8	59946.	5801.1
#2	3473.1	8486.2	59685.	5815.1
#3	3471.7	8463.0	59047.	5862.2

Zoom In Zoom Out

Sample Name: CCV Acquired: 4/7/2015 13:29:31 Type: QC
Method: 60102007_042011(v216) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2603	41.64	2.094	2.030	2.038	41.15	2.104	2.089	2.129	2.107
Stddev	.0015	.09	.003	.002	.005	.14	.002	.001	.009	.008
%RSD	.5878	.2262	.1522	.0849	.2574	.3447	.1107	.0677	.4286	.3804
#1	.2591	41.57	2.092	2.029	2.035	41.07	2.102	2.088	2.126	2.103
#2	.2598	41.75	2.097	2.032	2.044	41.32	2.104	2.089	2.121	2.101
#3	.2620	41.61	2.092	2.030	2.036	41.07	2.107	2.091	2.139	2.116
Check ?	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass
Value																				
Range																				

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	42.62	41.50	42.11	2.101	2.096	41.14	2.077	2.062	2.093	2.100
Stddev	.10	.10	.21	.023	.005	.06	.003	.008	.004	.005
%RSD	.2391	.2383	.4958	1.113	.2257	.1515	.1346	.3769	.2091	.2354
#1	42.51	41.40	41.95	2.113	2.091	41.11	2.075	2.053	2.092	2.098
#2	42.67	41.49	42.35	2.074	2.098	41.21	2.077	2.063	2.090	2.106
#3	42.69	41.60	42.03	2.115	2.100	41.10	2.080	2.069	2.098	2.097
Check ?	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass
Value																				
Range																				

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.355	2.102	2.099	2.104	2.083	2.056	2.095
Stddev	.003	.002	.006	.007	.011	.005	.001
%RSD	.1226	.0942	.2937	.3321	.5168	.2523	.0288
#1	2.352	2.103	2.093	2.102	2.071	2.056	2.094
#2	2.357	2.100	2.105	2.099	2.085	2.050	2.094
#3	2.357	2.104	2.099	2.112	2.092	2.060	2.095
Check ?	None	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass
Value													
Range													

Zoom In Zoom Out

Sample Name: CCV Acquired: 4/7/2015 13:29:31 Type: QC
Method: 60102007_042011(v216) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3111.6	7470.0	53089.	5303.3
Stddev	6.0	16.7	41.	40.0
%RSD	.19352	.22386	.07787	.75485
#1	3110.8	7451.5	53071.	5324.0
#2	3118.0	7484.1	53136.	5257.2
#3	3106.1	7474.5	53060.	5328.8

Zoom In Zoom Out

Sample Name: CCB Acquired: 4/7/2015 13:34:00 Type: QC
Method: 60102007_042011(v216) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0006	.0212	-.0003	-.0004	.0001	.0039	.0000	.0000	-.0002	.0005
Stddev	.0007	.0206	.0007	.0003	.0001	.0012	.0000	.0001	.0003	.0007
%RSD	123.6	97.28	260.3	68.78	118.2	31.50	77.37	4195.	187.2	133.2
#1	.0008	.0402	.0003	-.0001	.0002	.0052	.0000	-.0001	.0002	.0013
#2	-.0002	-.0007	-.0001	-.0005	.0000	.0034	.0001	-.0001	-.0004	.0003
#3	.0012	.0242	-.0010	-.0007	.0000	.0029	.0000	.0001	-.0003	-.0001
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0134	.1238	.0177	.0001	.0009	-.0424	.0002	-.0006	.0001	-.0004
Stddev	.0043	.0523	.0094	.0000	.0000	.0159	.0002	.0003	.0013	.0021
%RSD	32.48	42.22	53.41	21.78	2.511	37.40	117.8	56.07	1234.	459.5
#1	.0182	.0924	.0091	.0001	.0009	-.0372	.0002	-.0009	.0016	-.0026
#2	.0122	.0948	.0161	.0001	.0009	-.0298	-.0001	-.0007	-.0010	.0015
#3	.0098	.1841	.0278	.0001	.0009	-.0603	.0004	-.0002	-.0002	-.0003
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0035	.0000	.0000	.0005	.0001	-.0003	-.0001
Stddev	.0008	.000	.0003	.0002	.0001	.0004	.0001
%RSD	22.62	1181.	729.6	31.21	79.42	137.0	42.74
#1	.0044	.0001	.0003	.0005	.0001	-.0001	-.0001
#2	.0029	.0002	.0000	.0003	.0002	-.0001	-.0001
#3	.0033	-.0004	-.0002	.0006	.0001	-.0008	-.0002
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Zoom In Zoom Out

Sample Name: CCB Acquired: 4/7/2015 13:34:00 Type: QC
Method: 60102007_042011(v216) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3775.4	7981.2	57290.	5443.9
Stddev	7.8	15.0	266.	27.5
%RSD	.20550	.18746	.46400	.50600
#1	3782.5	7993.1	57265.	5413.5
#2	3776.5	7986.0	57568.	5451.0
#3	3767.1	7964.4	57038.	5467.2

Zoom In Zoom Out

Sample Name: CCV Acquired: 4/7/2015 14:05:22 Type: QC
Method: 60102007_042011(v216) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2469	39.54	1.942	1.965	1.969	39.49	1.972	1.968	1.980	1.971
Stddev	.0006	.23	.004	.009	.004	.16	.002	.002	.002	.002
%RSD	.2351	.5798	.2244	.4487	.1872	.4019	.1087	.0773	.1102	.1190
#1	.2463	39.30	1.937	1.957	1.965	39.33	1.970	1.966	1.982	1.974
#2	.2474	39.56	1.944	1.966	1.970	39.51	1.974	1.969	1.981	1.969
#3	.2469	39.76	1.944	1.974	1.972	39.64	1.971	1.969	1.978	1.971
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value										
Range										

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	39.98	39.40	39.67	2.026	1.971	39.50	1.968	1.938	1.949	1.954
Stddev	.25	.16	.16	.009	.002	.20	.004	.004	.009	.005
%RSD	.6193	.4144	.4133	.4710	.1219	.5116	.1799	.1896	.4374	.2638
#1	39.70	39.25	39.51	2.018	1.968	39.28	1.970	1.937	1.940	1.948
#2	40.06	39.37	39.67	2.023	1.972	39.55	1.964	1.942	1.957	1.959
#3	40.18	39.57	39.84	2.037	1.972	39.68	1.971	1.935	1.950	1.954
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value										
Range										

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.204	1.982	1.976	2.017	1.955	1.972	1.968
Stddev	.002	.002	.009	.003	.001	.002	.002
%RSD	.0682	.0830	.4749	.1274	.0714	.0856	.1001
#1	2.203	1.983	1.966	2.019	1.956	1.974	1.968
#2	2.204	1.980	1.978	2.014	1.956	1.972	1.966
#3	2.206	1.983	1.984	2.018	1.954	1.970	1.969
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Zoom In Zoom Out

Sample Name: CCV Acquired: 4/7/2015 14:05:22 Type: QC
Method: 60102007_042011(v216) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3157.5	7593.4	53863.	5357.4
Stddev	.5	3.3	199.	77.3
%RSD	.01563	.04316	.36904	1.4436
#1	3158.1	7593.4	54056.	5411.3
#2	3157.4	7590.1	53873.	5392.1
#3	3157.1	7596.6	53659.	5268.7

Zoom In Zoom Out

Sample Name: CCB Acquired: 4/7/2015 14:11:55 Type: QC
Method: 60102007_042011(v216) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0003	-.0175	.0001	-.0001	.0002	.0017	.0001	.0001	.0002
Stddev	.0006	.0095	.0003	.0004	.0001	.0002	.0000	.0001	.0002
%RSD	200.2	54.16	293.4	430.1	28.47	12.86	32.61	70.62	83.07
#1	-.0003	-.0120	-.0002	.0003	.0003	.0016	.0001	.0000	.0002
#2	.0009	-.0120	.0002	-.0004	.0002	.0019	.0001	.0002	.0000
#3	.0003	-.0285	.0003	-.0002	.0003	.0016	.0001	.0002	.0004
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0002	.0050	.0805	-.0125	.0001	.0007	.0012	.0002	.0002
Stddev	.0004	.0009	.0206	.0181	.0000	.0001	.0123	.0001	.0004
%RSD	205.1	16.87	25.55	143.8	5.421	14.81	1034.	59.19	156.6
#1	.0000	.0041	.1029	-.0010	.0001	.0008	.0154	.0001	.0002
#2	.0006	.0052	.0762	-.0334	.0001	.0006	-.0059	.0002	.0006
#3	-.0001	.0058	.0625	-.0033	.0001	.0007	-.0059	.0002	-.0001
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F.0021	.0005	-.0011	.0004	.0001	.0003	.0005	.0000	.0000
Stddev	.0005	.0009	.0001	.0004	.0001	.0001	.0006	.000	.000
%RSD	24.87	175.7	5.213	119.6	54.25	46.63	124.2	17160.	1735.
#1	.0026	.0015	-.0011	.0003	.0002	.0005	-.0002	-.0003	.0001
#2	.0016	-.0001	-.0010	.0008	.0002	.0003	.0009	.0004	.0000
#3	.0021	.0001	-.0011	.0000	.0000	.0002	.0008	-.0001	-.0001
Check ?	Chk Fail	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	.0020								
Low Limit	-.0020								

Zoom In Zoom Out

Sample Name: CCB Acquired: 4/7/2015 14:11:55 Type: QC
Method: 60102007_042011(v216) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3803.1	8050.7	57652.	5503.5
Stddev	20.1	59.3	529.	22.4
%RSD	.52943	.73707	.91689	.40704
#1	3809.8	8094.8	57785.	5522.3
#2	3819.0	8074.1	58102.	5478.7
#3	3780.5	7983.3	57070.	5509.4

Zoom In Zoom Out

Sample Name: FA23342-6 Acquired: 4/7/2015 14:15:57 Type: Unk
Method: 60102007_042011(v216) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	.0003	44.02	.0047	.1148	.0006	30.58	.0001	.0006	.0310	.0187
Stddev	.0005	.12	.0008	.0001	.0001	.11	.0000	.0001	.0001	.0002
%RSD	185.5	.2793	16.71	.0903	12.43	.3532	8.836	13.63	.2652	1.317
#1	-.0003	44.13	.0054	.1147	.0006	30.68	.0001	.0006	.0310	.0189
#2	.0005	44.04	.0049	.1149	.0005	30.61	.0001	.0006	.0311	.0184
#3	.0006	43.89	.0039	.1149	.0006	30.47	.0001	.0007	.0310	.0187

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	11.02	20.51	4.758	.1004	.0009	9.018	.0036	.0125	.0015	.0028
Stddev	.03	.12	.019	.0002	.0002	.046	.0001	.0008	.0004	.0012
%RSD	.2464	.5616	.4045	.1628	21.12	.5148	4.078	6.622	29.94	41.76
#1	11.03	20.58	4.778	.1006	.0008	9.069	.0035	.0134	.0010	.0036
#2	11.03	20.58	4.755	.1003	.0007	8.979	.0036	.0125	.0019	.0014
#3	10.98	20.38	4.740	.1004	.0011	9.005	.0038	.0117	.0016	.0033

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	27.54	.0020	.1880	.0350	-.0013	.0851	.0228
Stddev	.05	.0001	.0005	.0002	.0011	.0004	.0001
%RSD	.1722	4.277	.2841	.5573	85.67	.4129	.5659
#1	27.51	.0019	.1884	.0351	-.0005	.0850	.0227
#2	27.52	.0021	.1881	.0348	-.0026	.0854	.0228
#3	27.59	.0020	.1874	.0351	-.0008	.0848	.0229

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	3377.0	8176.7	57108.	5585.9
Stddev	6.3	18.6	313.	116.6
%RSD	.18552	.22725	.54866	2.0873
#1	3380.4	8186.5	56870.	5467.3
#2	3380.9	8188.4	56991.	5590.2
#3	3369.8	8155.3	57463.	5700.4

Zoom In Zoom Out

Sample Name: FA23342-7 Acquired: 4/7/2015 14:20:25 Type: Unk
Method: 60102007_042011(v216) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	.0000	1.568	.0124	.0149	.0001	4.152	.0009	.0010	.0025	.0055
Stddev	.0003	.007	.0006	.0005	.0001	.009	.0000	.0001	.0002	.0004
%RSD	926.6	.4644	4.552	3.257	193.0	.2036	3.729	9.792	8.101	7.174
#1	.0004	1.566	.0120	.0153	.0002	4.158	.0009	.0010	.0023	.0058
#2	-.0002	1.562	.0121	.0144	.0000	4.157	.0010	.0010	.0027	.0056
#3	-.0001	1.577	.0130	.0149	.0000	4.143	.0009	.0011	.0026	.0051

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	49.65	1.343	2.109	.0743	.0004	5.066	.0004	.0322	.0005	.0037
Stddev	.08	.059	.014	.0001	.0001	.020	.0002	.0011	.0007	.0008
%RSD	.1695	4.378	.6774	.1672	32.41	.3859	58.49	3.554	123.0	21.31
#1	49.56	1.275	2.093	.0743	.0003	5.045	.0001	.0332	.0011	.0030
#2	49.73	1.371	2.121	.0744	.0005	5.069	.0005	.0309	.0008	.0035
#3	49.67	1.382	2.113	.0742	.0003	5.084	.0006	.0324	-.0002	.0046

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	2.302	.0017	.0255	.0102	-.0006	.0040	.5532
Stddev	.004	.0003	.0002	.0002	.0004	.0002	.0007
%RSD	.1937	20.08	.9248	1.760	70.97	5.663	.1326
#1	2.303	.0020	.0256	.0100	-.0009	.0037	.5534
#2	2.298	.0014	.0252	.0103	-.0001	.0041	.5524
#3	2.307	.0015	.0257	.0101	-.0008	.0041	.5538

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	3586.2	7927.0	56362.	5465.6
Stddev	1.6	16.5	160.	26.7
%RSD	.04497	.20823	.28317	.48929
#1	3588.0	7931.3	56371.	5451.2
#2	3585.6	7908.7	56516.	5449.1
#3	3584.9	7940.9	56197.	5496.4

Zoom In Zoom Out

Sample Name: FA23342-8 Acquired: 4/7/2015 14:24:53 Type: Unk
Method: 60102007_042011(v216) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	-.0003	17.18	.0132	.0299	.0002	.8649	.0001	.0004	.0253	.0076
Stddev	.0002	.05	.0005	.0005	.0002	.0030	.0000	.0001	.0003	.0005
%RSD	87.63	.2754	3.642	1.726	77.95	.3487	48.34	21.27	1.209	6.255
#1	-.0005	17.23	.0136	.0300	.0003	.8669	.0001	.0003	.0253	.0077
#2	.0000	17.14	.0132	.0294	.0003	.8615	.0001	.0005	.0249	.0081
#3	-.0003	17.17	.0127	.0304	.0000	.8665	.0001	.0004	.0255	.0071

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	44.83	2.633	.7889	.0112	.0011	14.69	.0026	.0419	-.0009	.0016
Stddev	.06	.042	.0059	.0001	.0002	.06	.0002	.0007	.0010	.0013
%RSD	.1280	1.583	.7421	.7869	16.88	.4339	7.882	1.634	113.4	82.28
#1	44.89	2.592	.7834	.0111	.0011	14.62	.0028	.0412	-.0012	.0004
#2	44.78	2.675	.7881	.0112	.0013	14.72	.0024	.0419	-.0017	.0014
#3	44.81	2.630	.7951	.0113	.0009	14.73	.0025	.0426	.0002	.0031

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	8.103	.0022	.0123	.1548	-.0008	.0538	.0281
Stddev	.013	.0002	.0000	.0004	.0003	.0006	.0001
%RSD	.1633	9.518	.2497	.2739	34.56	1.063	.2973
#1	8.088	.0020	.0123	.1549	-.0011	.0533	.0280
#2	8.106	.0021	.0123	.1544	-.0007	.0544	.0282
#3	8.114	.0024	.0123	.1552	-.0006	.0538	.0281

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	3529.9	8016.4	56776.	5548.9
Stddev	4.6	2.2	430.	7.2
%RSD	.13036	.02762	.75648	.13032
#1	3531.1	8018.0	56861.	5550.7
#2	3533.8	8017.4	57157.	5540.9
#3	3524.8	8013.9	56311.	5555.0

Zoom In Zoom Out

Sample Name: FA23342-9 Acquired: 4/7/2015 14:29:21 Type: Unk
Method: 60102007_042011(v216) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	-.0004	31.47	.0065	.0745	.0003	2.831	.0009	.0020	.0245	.0297
Stddev	.0003	.12	.0003	.0003	.0001	.016	.0000	.0001	.0010	.0008
%RSD	64.06	.3793	3.888	.4198	23.62	.5570	5.664	6.859	4.145	2.604
#1	-.0004	31.33	.0068	.0741	.0004	2.814	.0009	.0019	.0252	.0303
#2	-.0007	31.55	.0064	.0747	.0004	2.844	.0008	.0022	.0251	.0300
#3	-.0001	31.53	.0063	.0746	.0002	2.836	.0009	.0020	.0234	.0288

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	22.97	1.651	3.003	.0208	.0008	9.761	.0052	.1569	.0000	.0027
Stddev	.09	.074	.023	.0004	.0000	.085	.0001	.0004	.0008	.0009
%RSD	.3993	4.470	.7527	1.711	3.833	.8663	2.133	.2309	1847.	31.22
#1	22.91	1.586	2.979	.0210	.0008	9.666	.0051	.1565	.0010	.0033
#2	23.07	1.731	3.006	.0209	.0008	9.828	.0053	.1572	-.0006	.0031
#3	22.93	1.636	3.024	.0204	.0008	9.789	.0052	.1570	-.0002	.0018

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	19.10	.0014	.0237	.0549	-.0018	.0318	.0190
Stddev	.05	.0001	.0001	.0010	.0013	.0003	.0001
%RSD	.2458	5.264	.5056	1.900	69.96	.9456	.4015
#1	19.13	.0013	.0235	.0555	-.0006	.0321	.0189
#2	19.04	.0015	.0238	.0554	-.0018	.0319	.0190
#3	19.11	.0014	.0237	.0537	-.0031	.0315	.0189

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	3519.9	8114.3	57413.	5530.5
Stddev	4.1	15.5	742.	41.5
%RSD	.11615	.19112	1.2929	.75049
#1	3517.8	8100.1	56817.	5577.4
#2	3524.6	8130.8	57177.	5515.9
#3	3517.3	8112.0	58245.	5498.4

Zoom In Zoom Out

Sample Name: FA23342-10 Acquired: 4/7/2015 14:33:48 Type: Unk
Method: 60102007_042011(v216) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	-.0005	31.06	.0073	.0641	.0003	3.392	.0004	.0006	.0318	.1010
Stddev	.0008	.07	.0006	.0004	.0001	.016	.0000	.0000	.0004	.0001
%RSD	161.0	.2163	8.463	.6360	22.92	.4660	11.05	5.543	1.415	.1419
#1	-.0004	31.04	.0071	.0636	.0003	3.375	.0004	.0006	.0315	.1011
#2	-.0013	31.01	.0080	.0642	.0002	3.395	.0005	.0007	.0323	.1009
#3	.0003	31.14	.0069	.0644	.0002	3.406	.0004	.0006	.0316	.1011

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	70.37	1.255	3.509	.0559	.0012	6.707	.0059	.0739	-.0010	.0055
Stddev	.18	.064	.017	.0001	.0001	.035	.0001	.0009	.0033	.0015
%RSD	.2581	5.056	.4845	.1789	11.77	.5197	1.904	1.169	346.6	26.73
#1	70.32	1.184	3.494	.0558	.0011	6.676	.0058	.0730	-.0044	.0063
#2	70.21	1.276	3.507	.0559	.0014	6.700	.0059	.0740	-.0007	.0038
#3	70.57	1.306	3.528	.0560	.0011	6.745	.0060	.0747	.0022	.0065

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	18.24	.0022	.0277	.0806	-.0019	.0325	.0419
Stddev	.01	.0001	.0001	.0001	.0007	.0000	.0000
%RSD	.0765	3.160	.5077	.1003	37.18	.1404	.1071
#1	18.23	.0022	.0275	.0805	-.0014	.0325	.0418
#2	18.25	.0022	.0278	.0807	-.0016	.0326	.0419
#3	18.24	.0021	.0277	.0806	-.0027	.0325	.0419

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	3545.4	8157.3	57299.	5533.9
Stddev	10.4	15.7	91.	37.4
%RSD	.29212	.19195	.15828	.67536
#1	3556.1	8174.1	57397.	5576.8
#2	3544.7	8143.1	57280.	5516.2
#3	3535.4	8154.7	57219.	5508.7

Zoom In Zoom Out

Sample Name: FA23342-11 Acquired: 4/7/2015 14:38:15 Type: Unk
Method: 60102007_042011(v216) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	.0002	.1799	-.0006	.0371	.0000	2.307	.0000	.0000	.0002	.0005
Stddev	.0005	.0139	.0006	.0005	.000	.007	.0001	.000	.0003	.0003
%RSD	252.8	7.700	97.63	1.258	357.5	.3011	173.2	244.3	160.8	71.08
#1	.0006	.1932	-.0009	.0373	-.0002	2.307	.0000	.0001	.0000	.0007
#2	.0002	.1656	.0001	.0366	.0001	2.299	.0001	-.0002	.0000	.0001
#3	-.0003	.1810	-.0011	.0375	.0000	2.313	.0001	.0000	.0005	.0006

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	.1309	.9908	.7029	.0047	-.0001	4.132	.0004	-.0002	.0016	.0010
Stddev	.0050	.0530	.0118	.0000	.0002	.029	.0001	.0006	.0011	.0006
%RSD	3.809	5.346	1.675	.6583	306.9	.7049	21.19	309.7	70.58	62.94
#1	.1366	.9301	.7000	.0048	-.0003	4.152	.0004	-.0002	.0006	.0009
#2	.1291	1.028	.7158	.0048	.0000	4.146	.0004	-.0008	.0028	.0005
#3	.1271	1.015	.6929	.0047	.0001	4.099	.0005	.0004	.0013	.0017

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	4.345	.0004	.0180	.0050	.0001	.0005	.1005
Stddev	.013	.0003	.0000	.0004	.0002	.0003	.0002
%RSD	.2948	73.47	.1460	8.679	240.4	72.97	.1873
#1	4.356	.0005	.0181	.0047	-.0001	.0001	.1004
#2	4.348	.0005	.0180	.0055	.0002	.0004	.1007
#3	4.331	.0001	.0181	.0049	.0002	.0008	.1003

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	3655.3	8032.6	57415.	5433.8
Stddev	10.1	6.0	502.	39.8
%RSD	.27702	.07459	.87451	.73210
#1	3662.7	8027.9	57535.	5473.3
#2	3659.4	8039.4	56864.	5393.7
#3	3643.8	8030.6	57846.	5434.5

Zoom In Zoom Out

Sample Name: FA23342-12 Acquired: 4/7/2015 14:42:46 Type: Unk
Method: 60102007_042011(v216) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	.0000	47.20	.0082	.0690	.0003	1.444	.0000	.0019	.0448	.0116
Stddev	.0005	.14	.0006	.0004	.0001	.006	.000	.0000	.0002	.0004
%RSD	1667.	.3013	7.917	.6030	21.92	.3924	122.8	1.799	.3628	3.304
#1	-.0002	47.35	.0075	.0695	.0003	1.446	.0000	.0019	.0447	.0114
#2	-.0003	47.07	.0088	.0689	.0002	1.448	.0000	.0019	.0448	.0121
#3	.0006	47.18	.0082	.0687	.0004	1.437	-.0001	.0018	.0450	.0114

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	36.91	1.480	1.440	.0282	.0012	12.07	.0071	.0838	-.0002	.0020
Stddev	.06	.024	.001	.0001	.0002	.04	.0001	.0007	.0010	.0009
%RSD	.1700	1.643	.0868	.1888	14.86	.3451	1.685	.8939	551.4	47.66
#1	36.95	1.453	1.439	.0282	.0011	12.11	.0069	.0830	.0009	.0030
#2	36.95	1.501	1.440	.0283	.0014	12.02	.0071	.0839	-.0003	.0018
#3	36.84	1.486	1.441	.0282	.0011	12.08	.0072	.0845	-.0011	.0011

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	17.73	.0058	.0169	.2446	-.0027	.0645	.1040
Stddev	.01	.0003	.0002	.0003	.0006	.0001	.0003
%RSD	.0548	4.360	1.032	.1063	23.51	.0837	.2993
#1	17.72	.0059	.0171	.2448	-.0029	.0645	.1036
#2	17.74	.0060	.0167	.2443	-.0033	.0645	.1043
#3	17.74	.0055	.0169	.2447	-.0020	.0646	.1040

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	3492.0	8217.9	57463.	5482.8
Stddev	3.5	8.7	331.	62.7
%RSD	.10135	.10577	.57517	1.1437
#1	3494.1	8227.8	57143.	5427.5
#2	3494.0	8211.8	57443.	5551.0
#3	3487.9	8214.1	57803.	5470.0

Zoom In Zoom Out

Sample Name: FA23342-13 Acquired: 4/7/2015 14:47:13 Type: Unk
Method: 60102007_042011(v216) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	-.0001	8.626	.0028	.0411	.0002	4.424	.0001	.0009	.0072	.0045
Stddev	.0002	.023	.0003	.0003	.0001	.005	.0000	.0001	.0003	.0003
%RSD	326.8	.2662	10.85	.6207	37.21	.1083	77.55	8.433	3.972	6.328
#1	.0002	8.607	.0026	.0410	.0002	4.419	.0000	.0008	.0075	.0047
#2	-.0002	8.652	.0032	.0408	.0002	4.429	.0000	.0009	.0070	.0042
#3	-.0002	8.620	.0027	.0413	.0001	4.424	.0001	.0010	.0071	.0044

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	37.91	1.527	1.969	.0668	.0007	10.87	.0019	.0428	.0006	.0011
Stddev	.07	.038	.023	.0001	.0001	.04	.0001	.0006	.0012	.0002
%RSD	.1897	2.488	1.160	.2058	21.46	.3282	7.270	1.379	192.4	20.18
#1	37.84	1.555	1.977	.0670	.0008	10.83	.0020	.0425	.0008	.0009
#2	37.90	1.484	1.988	.0667	.0006	10.90	.0018	.0425	-.0006	.0011
#3	37.98	1.543	1.944	.0668	.0005	10.87	.0020	.0435	.0018	.0014

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	6.318	.0010	.0203	.0334	-.0008	.0139	.0309
Stddev	.023	.0001	.0001	.0002	.0010	.0004	.0000
%RSD	.3618	8.568	.2495	.6027	119.7	2.832	.1059
#1	6.303	.0010	.0203	.0332	-.0013	.0138	.0308
#2	6.307	.0011	.0202	.0336	-.0014	.0144	.0309
#3	6.345	.0009	.0203	.0335	.0003	.0136	.0309

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	3586.6	8136.9	57585.	5500.1
Stddev	2.7	5.2	304.	27.0
%RSD	.07664	.06368	.52727	.49099
#1	3585.6	8142.6	57238.	5522.1
#2	3589.7	8135.7	57801.	5470.0
#3	3584.4	8132.5	57715.	5508.1

Zoom In Zoom Out

Sample Name: FA23342-14 Acquired: 4/7/2015 14:51:41 Type: Unk
Method: 60102007_042011(v216) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	.0005	1.374	.0033	.0594	.0000	39.50	.0000	.0001	.0021	.0014
Stddev	.0008	.003	.0002	.0003	.000	.20	.000	.0001	.0004	.0004
%RSD	152.1	.2356	5.325	.4264	946.4	.5037	195.2	102.9	18.43	26.26
#1	.0006	1.373	.0033	.0596	.0000	39.43	.0000	.0000	.0017	.0017
#2	-.0003	1.372	.0032	.0595	-.0001	39.73	.0000	.0000	.0025	.0015
#3	.0012	1.378	.0035	.0591	.0001	39.35	.0000	.0002	.0021	.0010

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	7.966	2.314	3.436	.1016	.0004	19.35	.0001	.0054	.0019	.0010
Stddev	.039	.030	.022	.0002	.0001	.09	.0002	.0005	.0016	.0004
%RSD	.4900	1.277	.6281	.1930	27.34	.4868	140.8	8.793	82.15	38.31
#1	7.983	2.324	3.415	.1016	.0003	19.28	.0001	.0049	.0003	.0006
#2	7.994	2.338	3.458	.1014	.0005	19.45	.0003	.0055	.0034	.0009
#3	7.922	2.281	3.436	.1018	.0003	19.30	.0000	.0059	.0021	.0013

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	1.790	.0006	.1474	.0145	-.0003	.0077	.0103
Stddev	.007	.0003	.0005	.0002	.0004	.0004	.0001
%RSD	.4093	51.12	.3330	1.070	144.5	4.900	1.036
#1	1.782	.0003	.1474	.0145	-.0004	.0078	.0102
#2	1.795	.0008	.1479	.0143	.0002	.0072	.0104
#3	1.793	.0006	.1469	.0146	-.0006	.0080	.0103

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	3430.3	7821.7	55900.	5339.6
Stddev	15.4	24.0	76.	32.6
%RSD	.44895	.30701	.13600	.60960
#1	3437.0	7847.1	55821.	5303.1
#2	3412.6	7799.4	55972.	5350.4
#3	3441.1	7818.5	55908.	5365.5

Zoom In Zoom Out

Sample Name: FA23312-1 Acquired: 4/7/2015 14:56:10 Type: Unk
Method: 60102007_042011(v216) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	.0004	.0145	-.0010	.1025	-.0001	33.03	.0000	.0048	.0001	.0106
Stddev	.0004	.0206	.0002	.0007	.0001	.08	.0000	.0000	.0003	.0002
%RSD	98.00	142.5	22.00	.6908	212.3	.2535	178.2	.6042	306.7	2.344
#1	.0006	.0383	-.0011	.1022	.0000	32.98	.0000	.0048	.0002	.0109
#2	-.0001	.0039	-.0011	.1033	.0000	33.12	.0000	.0048	.0003	.0104
#3	.0006	.0013	-.0007	.1020	-.0002	32.98	.0000	.0047	-.0002	.0105

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	36.03	7.367	7.083	1.097	.0010	63.54	.0068	.0185	.0035	.0065
Stddev	.09	.014	.047	.003	.0001	.20	.0001	.0010	.0005	.0009
%RSD	.2539	.1923	.6617	.2452	5.641	.3104	1.836	5.519	14.39	14.50
#1	36.06	7.383	7.111	1.100	.0009	63.53	.0069	.0187	.0041	.0069
#2	36.11	7.361	7.109	1.097	.0010	63.74	.0069	.0195	.0033	.0072
#3	35.93	7.356	7.029	1.094	.0010	63.35	.0067	.0175	.0032	.0054

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	3.948	.0019	.2243	.0020	-.0043	.0006	.1776
Stddev	.004	.0003	.0008	.0003	.0012	.0001	.0004
%RSD	.0877	17.50	.3651	13.20	26.69	16.65	.2185
#1	3.952	.0020	.2245	.0022	-.0037	.0005	.1781
#2	3.947	.0016	.2249	.0017	-.0056	.0006	.1774
#3	3.946	.0022	.2233	.0020	-.0036	.0007	.1775

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	3407.1	7666.6	54384.	5321.2
Stddev	20.6	34.0	246.	30.7
%RSD	.60319	.44345	.45184	.57647
#1	3390.9	7649.4	54100.	5336.8
#2	3430.2	7705.8	54535.	5341.0
#3	3400.2	7644.6	54516.	5285.9

Zoom In
Zoom Out

Sample Name: CCV Acquired: 4/7/2015 15:00:37 Type: QC
Method: 60102007_042011(v216) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2460	39.55	1.931	1.957	1.956	39.36	1.954	1.959	1.974	1.981
Stddev	.0020	.15	.021	.009	.011	.18	.021	.022	.010	.011
%RSD	.8036	.3822	1.097	.4717	.5566	.4627	1.098	1.116	.5154	.5374
#1	.2470	39.69	1.924	1.962	1.960	39.51	1.947	1.950	1.967	1.976
#2	.2473	39.58	1.915	1.963	1.965	39.40	1.937	1.942	1.985	1.993
#3	.2437	39.39	1.955	1.947	1.944	39.15	1.978	1.983	1.968	1.973
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value										
Range										

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	39.82	39.25	39.76	1.976	1.967	39.45	1.972	1.924	1.934	1.944
Stddev	.15	.17	.22	.008	.023	.23	.023	.019	.021	.024
%RSD	.3806	.4411	.5487	.4159	1.184	.5718	1.144	.9968	1.084	1.216
#1	39.98	39.34	39.98	1.985	1.958	39.65	1.963	1.919	1.926	1.934
#2	39.80	39.36	39.77	1.973	1.949	39.48	1.955	1.908	1.918	1.927
#3	39.68	39.05	39.54	1.970	1.993	39.21	1.997	1.946	1.958	1.971
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value										
Range										

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.188	1.979	1.982	2.023	1.945	1.966	1.972
Stddev	.024	.021	.009	.008	.023	.008	.021
%RSD	1.084	1.061	.4540	.4152	1.196	.4216	1.066
#1	2.182	1.972	1.989	2.023	1.935	1.970	1.966
#2	2.168	1.962	1.986	2.032	1.929	1.971	1.955
#3	2.214	2.002	1.972	2.015	1.972	1.956	1.996
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Pass
Value							
Range							

Zoom In
Zoom Out

Sample Name: CCV Acquired: 4/7/2015 15:00:37 Type: QC
Method: 60102007_042011(v216) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3173.4	7649.9	54139.	5333.6
Stddev	27.5	64.3	400.	60.9
%RSD	.86660	.83992	.73966	1.1420
#1	3186.8	7677.9	54382.	5301.6
#2	3191.6	7695.5	53677.	5403.8
#3	3141.7	7576.4	54359.	5295.3

Zoom In
Zoom Out

Sample Name: CCB Acquired: 4/7/2015 15:05:07 Type: QC
Method: 60102007_042011(v216) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0003	.0055	-.0002	.0005	.0004	.0058	.0001	.0000	.0002
Stddev	.0002	.0167	.0002	.0003	.0001	.0022	.0000	.000	.0002
%RSD	90.76	305.2	119.6	61.61	20.21	37.85	25.75	1112.	72.38
#1	.0000	.0217	.0001	.0008	.0004	.0081	.0002	.0000	.0004
#2	.0004	.0065	-.0002	.0003	.0003	.0054	.0001	.0000	.0003
#3	.0004	-.0117	-.0003	.0003	.0003	.0038	.0001	.0000	.0000
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0004	.0138	.0337	.0249	.0002	F.0012	-.0088	.0003	-.0002
Stddev	.0001	.0034	.0695	.0034	.0000	.0002	.0136	.0001	.0001
%RSD	32.60	24.69	206.2	13.75	14.47	17.63	154.1	36.98	46.59
#1	.0004	.0171	.0513	.0211	.0002	.0013	-.0094	.0004	-.0001
#2	.0003	.0138	.0928	.0257	.0002	.0013	-.0222	.0003	-.0003
#3	.0005	.0103	-.0429	.0278	.0002	.0009	.0051	.0002	-.0003
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit						.0010			
Low Limit						-.0010			

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F.0031	.0007	-.0003	.0006	.0003	.0008	.0005	-.0002	.0000
Stddev	.0002	.0010	.0002	.0001	.0001	.0001	.0013	.0004	.0000
%RSD	7.320	136.6	95.46	19.48	39.43	15.22	248.4	182.1	61.99
#1	.0029	-.0002	-.0001	.0007	.0003	.0009	-.0001	.0001	.0001
#2	.0030	.0007	-.0005	.0006	.0005	.0008	.0021	-.0001	.0000
#3	.0033	.0017	-.0001	.0004	.0002	.0006	-.0004	-.0007	.0000
Check ?	Chk Fail	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	.0020								
Low Limit	-.0020								

Zoom In
Zoom Out

Sample Name: CCB Acquired: 4/7/2015 15:05:07 Type: QC
Method: 60102007_042011(v216) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3787.0	8022.1	57900.	5491.0
Stddev	18.9	46.8	43.	30.9
%RSD	.49814	.58285	.07415	.56251
#1	3803.1	8053.7	57852.	5494.2
#2	3791.6	8044.2	57911.	5520.2
#3	3766.3	7968.4	57936.	5458.7

Zoom In Zoom Out

Sample Name: FA23341-1 Acquired: 4/7/2015 15:09:36 Type: Unk
Method: 60102007_042011(v216) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)
Avg	.0024	.8880	.0745	.0629	.0000	13.96	.0005	.0094	.0170
Stddev	.0009	.0095	.0014	.0006	.0000	.18	.0001	.0001	.0001
%RSD	39.33	1.066	1.938	1.028	211.9	1.285	9.776	1.138	.5739
#1	.0030	.8944	.0736	.0633	.0000	14.14	.0005	.0095	.0171
#2	.0028	.8771	.0762	.0622	.0000	13.79	.0005	.0093	.0169
#3	.0013	.8926	.0738	.0633	.0000	13.96	.0006	.0094	.0170

Elem	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
IS Ref	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)
Avg	.6176	3.482	F1362.	2.884	.0490	.1237	F459.2	.1037	.0807
Stddev	.0016	.047	67.	.045	.0000	.0001	5.7	.0006	.0015
%RSD	.2551	1.361	4.938	1.546	.0222	.1041	1.248	.6110	1.847
#1	.6158	3.517	1437.	2.929	.0490	.1236	465.7	.1043	.0798
#2	.6184	3.428	1342.	2.840	.0490	.1238	456.9	.1031	.0799
#3	.6187	3.501	1307.	2.882	.0490	.1237	454.9	.1038	.0825

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	.0745	.0127	6.685	.0077	.0477	.0545	-.0025	.3168	.4634
Stddev	.0009	.0006	.006	.0002	.0006	.0004	.0000	.0008	.0010
%RSD	1.206	4.682	.0955	3.043	1.290	.8069	.2863	.2404	.2133
#1	.0754	.0126	6.690	.0077	.0480	.0544	-.0025	.3177	.4638
#2	.0736	.0122	6.678	.0074	.0470	.0550	-.0025	.3163	.4623
#3	.0746	.0133	6.687	.0079	.0481	.0542	-.0025	.3164	.4641

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	2623.1	6644.3	44753.	5109.5
Stddev	3.4	10.7	135.	45.3
%RSD	.13063	.16156	.30267	.88627
#1	2625.7	6649.8	44909.	5078.8
#2	2624.4	6651.3	44683.	5161.5
#3	2619.2	6632.0	44667.	5088.1

Zoom In Zoom Out

Sample Name: FA23173-4 Acquired: 4/7/2015 15:14:21 Type: Unk
Method: 60102007_042011(v216) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)
Avg	.0008	.3479	.0017	.0060	.0001	17.02	.0003	.0161	.0021
Stddev	.0009	.0054	.0010	.0003	.0001	.09	.0001	.0001	.0001
%RSD	118.8	1.560	57.07	4.342	48.78	.5073	20.76	.4302	5.205
#1	.0002	.3418	.0009	.0057	.0001	17.11	.0003	.0160	.0020
#2	.0018	.3520	.0014	.0062	.0001	17.02	.0003	.0161	.0022
#3	.0003	.3500	.0028	.0061	.0002	16.93	.0002	.0160	.0022

Elem	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
IS Ref	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)
Avg	.0018	10.16	2.736	2.929	F5.269	.0027	8.263	.0107	.0071
Stddev	.0003	.07	.157	.037	.045	.0001	.071	.0000	.0001
%RSD	15.62	.6965	5.749	1.250	.8606	4.206	.8631	.3619	1.326
#1	.0015	10.20	2.899	2.927	5.314	.0026	8.320	.0107	.0072
#2	.0020	10.21	2.722	2.966	5.269	.0028	8.286	.0107	.0072
#3	.0018	10.08	2.585	2.892	5.223	.0028	8.183	.0107	.0070

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	.0008	.0008	2.263	.0004	.0134	.0057	.0039	.0013	.0167
Stddev	.0012	.0017	.004	.0004	.0002	.0001	.0010	.0001	.0000
%RSD	153.0	198.6	.1731	90.91	1.685	2.091	26.10	7.425	.1546
#1	.0015	-.0008	2.263	.0006	.0134	.0058	.0028	.0014	.0167
#2	-.0006	.0008	2.260	.0006	.0136	.0056	.0049	.0012	.0167
#3	.0016	.0025	2.268	.0000	.0132	.0056	.0041	.0014	.0167

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	3577.3	7889.4	56403.	5416.7
Stddev	7.1	21.5	371.	63.0
%RSD	.19767	.27234	.65735	1.1627
#1	3578.3	7893.8	56120.	5393.8
#2	3583.9	7908.3	56266.	5368.4
#3	3569.9	7866.0	56823.	5488.0

Zoom In Zoom Out

Sample Name: FA23179-1 Acquired: 4/7/2015 15:18:57 Type: Unk
Method: 60102007_042011(v216) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	.0007	.0902	.0011	.0658	.0000	264.2	.0007	.0086	.0014	.0027
Stddev	.0001	.0309	.0002	.0005	.0000	4.4	.0000	.0002	.0003	.0002
%RSD	20.68	34.25	18.84	.7274	125.7	1.681	4.003	2.050	22.43	6.290
#1	.0005	.0873	.0011	.0660	.0001	264.7	.0007	.0085	.0011	.0029
#2	.0007	.0609	.0009	.0653	.0001	259.5	.0007	.0088	.0014	.0026
#3	.0008	.1225	.0013	.0662	.0000	268.3	.0007	.0085	.0017	.0026

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	.3640	11.71	111.0	2.428	.0029	70.21	.0127	-.0040	.0041	.0027
Stddev	.0032	.11	.3	.014	.0000	.21	.0002	.0004	.0018	.0006
%RSD	.8851	.9140	.2966	.5844	1.652	.2958	1.479	10.35	43.57	22.82
#1	.3674	11.83	111.2	2.444	.0029	70.41	.0128	-.0039	.0051	.0034
#2	.3636	11.62	110.6	2.421	.0029	70.00	.0128	-.0036	.0021	.0023
#3	.3610	11.70	111.1	2.418	.0028	70.21	.0125	-.0045	.0052	.0024

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	23.03	.0003	.5538	.0140	.0016	.0007	.1054
Stddev	.05	.0004	.0015	.0108	.0005	.0004	.0003
%RSD	.2143	114.4	.2751	77.58	32.21	50.31	.3288
#1	22.99	-.0001	.5523	.0060	.0010	.0005	.1051
#2	23.03	.0005	.5537	.0096	.0020	.0011	.1053
#3	23.09	.0007	.5553	.0263	.0019	.0006	.1058

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	3063.6	7200.4	51220.	5222.6
Stddev	15.8	36.0	164.	66.5
%RSD	.51698	.50062	.31997	1.2726
#1	3078.1	7233.6	51253.	5198.5
#2	3066.0	7205.4	51364.	5297.7
#3	3046.7	7162.1	51042.	5171.5

Zoom In Zoom Out

Sample Name: FA23344-7 Acquired: 4/7/2015 15:23:43 Type: Unk
Method: 60102007_042011(v216) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	.0008	.2854	-.0003	.0042	.0001	1.770	.0001	.0007	.0101	.0046
Stddev	.0009	.0110	.0009	.0002	.0001	.010	.0001	.0001	.0001	.0004
%RSD	122.5	3.837	305.6	4.560	157.2	.5699	91.95	9.807	.7358	8.272
#1	.0006	.2732	-.0014	.0041	.0001	1.778	.0000	.0006	.0102	.0042
#2	.0018	.2945	-.0001	.0044	.0002	1.758	.0000	.0007	.0100	.0050
#3	-.0001	.2884	.0005	.0040	-.0001	1.772	.0001	.0007	.0101	.0045

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	.0774	.8818	2.288	.0077	.0003	9.927	.0071	.0002	.0017	.0000
Stddev	.0020	.0189	.045	.0000	.0001	.088	.0002	.0005	.0011	.0005
%RSD	2.593	2.138	1.951	.1735	28.10	.8877	3.509	261.9	64.05	993.1
#1	.0756	.8825	2.279	.0077	.0003	9.997	.0073	-.0004	.0029	-.0004
#2	.0795	.8627	2.248	.0077	.0002	9.828	.0072	.0003	.0009	.0006
#3	.0771	.9004	2.336	.0077	.0004	9.955	.0068	.0006	.0012	-.0001

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	2.626	.0005	.0014	.0012	.0003	.0000	.0191
Stddev	.004	.0002	.0001	.0002	.0004	.001	.0001
%RSD	.1343	32.98	6.278	15.61	132.4	1039.	.3375
#1	2.630	.0004	.0015	.0011	.0000	.0005	.0192
#2	2.627	.0004	.0014	.0010	.0002	-.0004	.0191
#3	2.623	.0007	.0013	.0014	.0008	-.0003	.0192

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	3586.9	7912.0	56321.	5381.0
Stddev	8.9	16.8	372.	137.7
%RSD	.24707	.21226	.66100	2.5595
#1	3581.1	7898.1	56332.	5243.2
#2	3582.5	7907.1	56688.	5518.6
#3	3597.1	7930.6	55944.	5381.3

Zoom In Zoom Out

Sample Name: FA23347-3F Acquired: 4/7/2015 15:28:11 Type: Unk
Method: 60102007_042011(v216) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	.0002	.0108	.0003	.0468	.0001	4.412	.0000	.0003	.0003	.0001
Stddev	.0002	.0043	.0009	.0002	.0001	.008	.000	.0000	.0002	.0003
%RSD	117.0	39.86	294.1	.3223	125.9	.1809	194.3	14.04	86.60	383.0
#1	.0004	.0128	-.0004	.0470	.0001	4.408	.0000	.0003	.0005	-.0003
#2	.0000	.0058	.0000	.0467	.0000	4.407	.0000	.0004	.0001	.0002
#3	.0002	.0136	.0013	.0467	.0002	4.421	-.0001	.0003	.0001	.0004

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	.8977	2.548	2.019	.0155	.0003	7.310	.0013	-.0003	.0014	.0005
Stddev	.0013	.028	.024	.0001	.0001	.014	.0002	.0007	.0010	.0021
%RSD	.1455	1.081	1.164	.5182	34.82	.1897	17.95	263.0	69.78	381.0
#1	.8971	2.535	2.000	.0154	.0003	7.300	.0015	-.0001	.0003	-.0018
#2	.8968	2.580	2.011	.0156	.0002	7.304	.0010	.0003	.0021	.0013
#3	.8992	2.530	2.045	.0155	.0004	7.326	.0013	-.0011	.0020	.0022

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	3.686	.0005	.0678	.0004	-.0007	.0006	.0123
Stddev	.021	.0001	.0000	.0001	.0008	.0001	.0001
%RSD	.5840	22.47	.0565	33.33	116.5	18.47	.7777
#1	3.671	.0007	.0679	.0005	.0002	.0007	.0123
#2	3.675	.0004	.0678	.0003	-.0012	.0005	.0123
#3	3.710	.0005	.0678	.0003	-.0010	.0006	.0125

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	3581.4	7879.4	56086.	5342.7
Stddev	25.4	46.0	587.	49.9
%RSD	.70833	.58383	1.0470	.93463
#1	3597.7	7918.3	55665.	5292.0
#2	3594.3	7891.2	55837.	5391.9
#3	3552.1	7828.6	56757.	5344.1

Zoom In Zoom Out

Sample Name: MP28767-MB1 Acquired: 4/7/2015 15:32:42 Type: QC
Method: 60102007_042011(v216) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0003	.0288	-.0008	.0024	.0000	F.6338	.0000	-.0001	.0004
Stddev	.0003	.0188	.0004	.0002	.0000	.0091	.000	.0001	.0001
%RSD	82.00	65.11	56.86	8.281	71.28	1.441	112.8	93.89	33.67
#1	-.0006	.0081	-.0005	.0024	.0000	.6395	.0000	-.0002	.0006
#2	-.0001	.0337	-.0013	.0021	.0000	.6232	-.0001	.0000	.0004
#3	-.0003	.0447	-.0005	.0025	.0000	.6386	-.0001	.0000	.0003
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit						.5000			
Low Limit						-.5000			

Elem	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0005	.0274	.4098	.2734	.0028	.0001	1.011	.0003	-.0003
Stddev	.0001	.0020	.0401	.0286	.0001	.0001	.017	.0001	.0006
%RSD	16.84	7.354	9.798	10.45	2.519	200.1	1.676	23.24	215.7
#1	.0004	.0255	.4561	.2638	.0027	.0001	.9959	.0002	.0004
#2	.0005	.0296	.3845	.2508	.0028	-.0001	1.029	.0004	-.0009
#3	.0005	.0272	.3887	.3055	.0029	.0001	1.007	.0003	-.0004
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0013	.0003	.1062	.0247	.0039	.0010	-.0002	.0001	.0047
Stddev	.0012	.0005	.0003	.0001	.0001	.0001	.0015	.0005	.0001
%RSD	95.80	183.7	.3155	.5821	1.682	7.374	939.4	573.3	1.807
#1	-.0001	.0005	.1058	.0248	.0039	.0011	.0012	.0001	.0048
#2	.0018	-.0003	.1064	.0246	.0039	.0010	.0001	-.0004	.0046
#3	.0021	.0006	.1064	.0249	.0040	.0009	-.0018	.0005	.0047
Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Zoom In Zoom Out

Sample Name: MP28767-MB1 Acquired: 4/7/2015 15:32:42 Type: QC
Method: 60102007_042011(v216) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3817.8	8128.2	58868.	5530.1
Stddev	4.4	18.5	233.	107.6
%RSD	.11456	.22716	.39647	1.9459
#1	3820.3	8130.4	59137.	5448.7
#2	3812.7	8108.8	58747.	5652.1
#3	3820.4	8145.5	58720.	5489.4

Zoom In Zoom Out

Sample Name: MP28767-B1 Acquired: 4/7/2015 15:37:12 Type: QC
Method: 60102007_042011(v216) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0473	27.07	1.952	2.012	.0500	25.62	.0490	.4964	.2062	.2599
Stddev	.0006	.13	.004	.013	.0003	.10	.0001	.0016	.0005	.0004
%RSD	1.267	.4806	.1910	.6643	.6206	.3990	.2516	.3196	.2482	.1515
#1	.0477	26.94	1.948	1.997	.0497	25.52	.0488	.4946	.2068	.2597
#2	.0466	27.09	1.952	2.018	.0502	25.61	.0491	.4967	.2059	.2597
#3	.0475	27.20	1.956	2.022	.0502	25.73	.0490	.4978	.2059	.2604
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value										
Range										

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	25.88	25.13	25.29	.5106	.4830	26.02	.5073	.4816	.4439	1.977
Stddev	.17	.10	.19	.0009	.0006	.11	.0011	.0010	.0028	.011
%RSD	.6399	.4107	.7552	.1819	.1227	.4122	.2186	.2020	.6269	.5771
#1	25.70	25.01	25.15	.5112	.4824	25.90	.5060	.4815	.4407	1.964
#2	25.90	25.20	25.22	.5095	.4836	26.09	.5082	.4807	.4450	1.981
#3	26.03	25.18	25.51	.5109	.4831	26.07	.5077	.4826	.4459	1.986
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value										
Range										

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1118	.5207	.4955	.5012	1.913	.4758	.4992
Stddev	.0009	.0017	.0039	.0014	.001	.0015	.0008
%RSD	.8114	.3216	.7913	.2757	.0705	.3214	.1523
#1	.1109	.5192	.4913	.5028	1.913	.4774	.4984
#2	.1127	.5204	.4962	.5005	1.912	.4756	.4998
#3	.1119	.5225	.4990	.5003	1.914	.4744	.4994
Check ?	None	Chk Pass	None	None	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Zoom In Zoom Out

Sample Name: MP28767-B1 Acquired: 4/7/2015 15:37:12 Type: QC
Method: 60102007_042011(v216) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3336.1	7809.1	54549.	5351.3
Stddev	3.2	3.0	151.	33.9
%RSD	.09518	.03794	.27752	.63313
#1	3332.8	7812.5	54376.	5313.2
#2	3339.1	7806.9	54661.	5378.2
#3	3336.3	7808.0	54609.	5362.5

Zoom In Zoom Out

Sample Name: MP28767-B2 Acquired: 4/7/2015 15:41:36 Type: QC
Method: 60102007_042011(v216) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0476	27.83	1.987	2.056	.0511	26.30	.0496	.5038	.2102	.2646
Stddev	.0003	.11	.008	.006	.0005	.04	.0002	.0003	.0005	.0006
%RSD	.5838	.3910	.4009	.2868	.9099	.1362	.3853	.0532	.2405	.2250
#1	.0473	27.82	1.981	2.053	.0506	26.26	.0495	.5038	.2099	.2646
#2	.0479	27.94	1.996	2.062	.0515	26.33	.0498	.5041	.2099	.2640
#3	.0477	27.73	1.986	2.051	.0513	26.29	.0495	.5035	.2108	.2652
Check ?	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass
Value																						
Range																						

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	26.56	25.68	25.97	.5190	.4897	26.63	.5140	.4906	.4596	2.001
Stddev	.07	.11	.13	.0006	.0007	.08	.0001	.0017	.0024	.005
%RSD	.2489	.4426	.4879	.1130	.1404	.3157	.0273	.3495	.5307	.2313
#1	26.54	25.67	25.83	.5183	.4896	26.59	.5141	.4906	.4568	1.998
#2	26.63	25.80	26.07	.5193	.4905	26.73	.5141	.4889	.4613	2.006
#3	26.50	25.57	26.00	.5194	.4891	26.58	.5139	.4923	.4608	1.998
Check ?	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass
Value																						
Range																						

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1132	.5278	.5058	.5091	1.944	.4836	.5069
Stddev	.0005	.0006	.0027	.0003	.001	.0006	.0008
%RSD	.4704	.1124	.5282	.0542	.0704	.1325	.1599
#1	.1128	.5274	.5059	.5091	1.943	.4833	.5072
#2	.1129	.5285	.5084	.5089	1.946	.4832	.5076
#3	.1138	.5276	.5031	.5094	1.944	.4843	.5060
Check ?	None	Chk	Pass	None	None	Chk	Pass	Chk	Pass	Chk	Pass
Value											
Range											

Zoom In Zoom Out

Sample Name: MP28767-B2 Acquired: 4/7/2015 15:41:36 Type: QC
Method: 60102007_042011(v216) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3318.5	7783.7	54799.	5299.0
Stddev	7.9	17.6	207.	21.1
%RSD	.23701	.22626	.37852	.39778
#1	3315.8	7784.3	55039.	5310.1
#2	3312.4	7765.8	54679.	5312.2
#3	3327.4	7801.0	54680.	5274.7

Zoom In Zoom Out

Sample Name: FA23315-1 Acquired: 4/7/2015 15:45:59 Type: Unk
Method: 60102007_042011(v216) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	.0024	.0563	-.0008	.0032	.0001	1.401	.0000	.0000	.0007	.0030
Stddev	.0005	.0055	.0007	.0002	.0001	.006	.0000	.0001	.0002	.0001
%RSD	19.29	9.792	85.88	5.619	135.7	.4510	419.8	223.3	21.12	3.658
#1	.0019	.0515	-.0014	.0032	.0000	1.394	.0000	.0001	.0006	.0029
#2	.0025	.0551	-.0001	.0034	.0002	1.403	.0000	-.0001	.0007	.0031
#3	.0027	.0623	-.0009	.0030	.0001	1.406	.0000	.0001	.0009	.0029

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	.0452	.7900	.3988	.0032	.0002	1.154	.0008	.0003	.0027	.0021
Stddev	.0012	.0560	.0129	.0000	.0001	.012	.0003	.0003	.0011	.0003
%RSD	2.692	7.094	3.242	.7702	64.58	1.065	31.00	83.60	40.58	12.31
#1	.0450	.8373	.3862	.0032	.0002	1.167	.0011	.0002	.0035	.0018
#2	.0465	.8046	.3980	.0032	.0000	1.142	.0006	.0006	.0015	.0023
#3	.0441	.7281	.4121	.0032	.0002	1.155	.0008	.0001	.0033	.0020

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	.1692	.0296	.0158	.0014	-.0005	.0004	.0126
Stddev	.0004	.0002	.0002	.0001	.0009	.0001	.0000
%RSD	.2245	.6094	1.415	8.806	171.9	20.18	.2365
#1	.1692	.0295	.0157	.0015	-.0007	.0004	.0126
#2	.1688	.0298	.0156	.0012	.0004	.0004	.0126
#3	.1696	.0295	.0160	.0014	-.0013	.0003	.0126

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	3758.0	8027.4	58058.	5492.5
Stddev	14.0	17.5	601.	36.7
%RSD	.37355	.21833	1.0359	.66837
#1	3766.4	8041.2	58399.	5534.8
#2	3765.9	8033.3	57364.	5468.8
#3	3741.8	8007.7	58412.	5473.9

Zoom In Zoom Out

Sample Name: FA23315-2 Acquired: 4/7/2015 15:50:28 Type: Unk
Method: 60102007_042011(v216) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	.0016	.0543	.0003	.0038	.0000	1.764	.0000	.0001	.0004	.0035
Stddev	.0006	.0156	.0008	.0001	.000	.006	.0000	.0001	.0004	.0001
%RSD	39.24	28.83	269.2	3.242	109.5	.3505	5246.	101.1	78.75	2.314
#1	.0013	.0658	.0001	.0039	.0000	1.760	.0000	.0000	.0001	.0036
#2	.0023	.0364	.0012	.0037	.0000	1.771	.0000	.0002	.0007	.0035
#3	.0011	.0605	-.0004	.0037	-.0001	1.761	.0000	.0000	.0005	.0034

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	.0424	.6144	.4039	.0035	.0002	1.399	.0012	.0004	.0014	.0026
Stddev	.0012	.0305	.0043	.0000	.0000	.006	.0001	.0007	.0015	.0010
%RSD	2.831	4.971	1.073	.7736	12.61	.4194	5.064	157.8	104.3	38.99
#1	.0421	.5793	.4017	.0035	.0002	1.403	.0011	-.0003	.0022	.0032
#2	.0437	.6350	.4012	.0035	.0001	1.392	.0012	.0008	.0024	.0014
#3	.0414	.6289	.4089	.0034	.0002	1.402	.0012	.0008	-.0003	.0031

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	.1708	.0422	.0178	.0015	-.0008	-.0002	.0191
Stddev	.0007	.0005	.0001	.0004	.0012	.0003	.0001
%RSD	.3979	1.121	.6993	23.80	145.2	122.8	.5193
#1	.1713	.0425	.0177	.0013	.0000	-.0002	.0192
#2	.1700	.0425	.0179	.0013	-.0003	.0000	.0190
#3	.1710	.0417	.0177	.0019	-.0022	-.0006	.0192

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	3744.5	8021.4	57860.	5433.7
Stddev	3.3	6.3	442.	75.3
%RSD	.08905	.07894	.76462	1.3861
#1	3748.4	8027.0	58371.	5488.1
#2	3742.2	8022.7	57613.	5347.7
#3	3743.0	8014.6	57597.	5465.2

Zoom In Zoom Out

Sample Name: CCV Acquired: 4/7/2015 15:54:56 Type: QC
Method: 60102007_042011(v216) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2486	39.91	1.957	1.988	1.989	39.86	1.982	1.984	1.995	1.998
Stddev	.0017	.10	.008	.003	.008	.14	.001	.002	.007	.007
%RSD	.7039	.2605	.3965	.1733	.4071	.3408	.0607	.1026	.3730	.3709
#1	.2472	39.91	1.965	1.991	1.998	39.93	1.982	1.983	1.987	1.989
#2	.2505	40.02	1.955	1.989	1.986	39.95	1.981	1.983	1.997	2.001
#3	.2480	39.81	1.950	1.985	1.982	39.71	1.984	1.986	2.001	2.003
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value										
Range										

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	39.75	40.00	39.81	2.019	1.988	40.35	1.992	1.951	1.954	1.974
Stddev	.08	.12	.09	.015	.005	.16	.004	.002	.005	.004
%RSD	.1968	.2880	.2362	.7569	.2305	.3962	.1744	.1047	.2572	.1990
#1	39.71	40.11	39.86	2.001	1.984	40.46	1.989	1.950	1.959	1.973
#2	39.84	40.02	39.88	2.030	1.987	40.41	1.993	1.949	1.949	1.970
#3	39.70	39.88	39.71	2.025	1.993	40.16	1.996	1.953	1.953	1.978
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value										
Range										

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.216	2.005	1.996	2.044	1.970	1.996	1.992
Stddev	.004	.003	.006	.006	.006	.004	.002
%RSD	.1666	.1649	.2913	.3009	.3285	.1912	.1192
#1	2.216	2.004	1.999	2.038	1.969	1.991	1.990
#2	2.213	2.003	1.999	2.044	1.964	1.998	1.991
#3	2.220	2.009	1.989	2.050	1.977	1.997	1.994
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Zoom In Zoom Out

Sample Name: CCV Acquired: 4/7/2015 15:54:56 Type: QC
Method: 60102007_042011(v216) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3148.4	7584.4	54034.	5271.2
Stddev	10.4	23.2	334.	37.5
%RSD	.33086	.30544	.61781	.71055
#1	3159.9	7610.3	54390.	5268.0
#2	3145.9	7577.2	53984.	5235.4
#3	3139.5	7565.6	53728.	5310.1

Zoom In Zoom Out

Sample Name: CCB Acquired: 4/7/2015 15:59:26 Type: QC
Method: 60102007_042011(v216) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0007	.0136	.0008	.0000	.0003	.0068	.0001	.0001	.0002
Stddev	.0002	.0090	.0007	.0003	.0000	.0019	.0001	.0002	.0003
%RSD	27.13	66.29	86.38	686.8	14.42	27.89	57.26	174.3	119.7
#1	.0006	.0161	.0003	.0003	.0003	.0060	.0002	.0003	.0005
#2	.0006	.0036	.0005	.0000	.0003	.0089	.0001	.0002	-.0001
#3	.0009	.0212	.0016	-.0002	.0003	.0054	.0001	-.0001	.0003
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0002	.0137	.1623	.0226	.0002	F.0011	.0388	.0001	-.0005
Stddev	.0005	.0035	.0745	.0043	.0000	.0002	.0203	.0001	.0002
%RSD	232.7	25.75	45.90	18.89	11.12	15.64	52.48	116.9	38.04
#1	.0003	.0157	.2239	.0274	.0002	.0014	.0537	.0003	-.0007
#2	.0006	.0158	.0795	.0207	.0002	.0010	.0470	.0000	-.0003
#3	-.0003	.0096	.1835	.0195	.0002	.0011	.0156	.0001	-.0005
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit						.0010			
Low Limit						-.0010			

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F.0029	-.0009	-.0005	.0004	.0004	.0011	.0016	.0004	.0001
Stddev	.0004	.0007	.0007	.0002	.0001	.0001	.0009	.0003	.0000
%RSD	15.31	79.35	135.4	39.25	24.69	8.417	56.76	73.90	44.82
#1	.0032	-.0017	.0003	.0004	.0005	.0010	.0025	.0004	.0002
#2	.0029	-.0004	-.0011	.0006	.0004	.0011	.0006	.0006	.0001
#3	.0024	-.0006	-.0008	.0003	.0003	.0011	.0018	.0001	.0001
Check ?	Chk Fail	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	.0020								
Low Limit	-.0020								

Zoom In
Zoom Out

Sample Name: CCB Acquired: 4/7/2015 15:59:26 Type: QC
Method: 60102007_042011(v216) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3785.2	8021.2	57196.	5423.4
Stddev	6.8	10.4	310.	46.3
%RSD	.18084	.12912	.54234	.85354
#1	3783.6	8010.0	56854.	5371.0
#2	3779.2	8023.3	57275.	5458.7
#3	3792.6	8030.4	57459.	5440.6

Zoom In
Zoom Out

Sample Name: FA23315-3 Acquired: 4/7/2015 16:03:55 Type: Unk
Method: 60102007_042011(v216) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	.0026	.0677	-.0008	.0036	.0002	1.450	.0000	.0002	.0007	.0037
Stddev	.0003	.0126	.0004	.0004	.0001	.002	.0000	.0001	.0002	.0005
%RSD	12.62	18.57	48.28	10.30	44.14	.1615	29.21	66.72	33.30	12.37
#1	.0022	.0802	-.0011	.0034	.0001	1.448	.0000	.0000	.0005	.0042
#2	.0028	.0551	-.0004	.0040	.0002	1.453	.0000	.0002	.0007	.0036
#3	.0029	.0679	-.0009	.0034	.0002	1.449	.0000	.0003	.0009	.0033

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	.0502	1.017	.3966	.0035	.0004	1.334	.0013	.0006	.0027	.0021
Stddev	.0023	.058	.0131	.0001	.0000	.012	.0002	.0003	.0009	.0025
%RSD	4.486	5.690	3.312	1.987	7.360	.9145	15.70	49.23	31.83	119.8
#1	.0513	.9605	.3877	.0036	.0004	1.326	.0011	.0003	.0037	.0045
#2	.0476	1.076	.4117	.0036	.0004	1.348	.0013	.0009	.0019	.0020
#3	.0516	1.015	.3904	.0034	.0004	1.329	.0016	.0005	.0026	-.0004

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	.1604	.0366	.0152	.0020	-.0004	.0001	.0210
Stddev	.0002	.0006	.0001	.0001	.0008	.0008	.0001
%RSD	.0976	1.695	.9256	7.024	178.4	975.0	.2814
#1	.1603	.0373	.0154	.0019	.0001	-.0006	.0211
#2	.1602	.0361	.0151	.0021	-.0001	-.0001	.0210
#3	.1605	.0364	.0152	.0022	-.0014	.0009	.0210

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	3764.6	8036.8	58236.	5467.2
Stddev	7.9	13.1	123.	39.4
%RSD	.21017	.16303	.21101	.72012
#1	3773.8	8050.8	58285.	5512.3
#2	3760.2	8024.8	58326.	5439.5
#3	3759.9	8034.7	58096.	5450.0

Zoom In
Zoom Out

Sample Name: CRIA Acquired: 4/7/2015 16:08:24 Type: Unk
Method: 60102007_042011(v216) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	.0106	.1902	.0100	.2086	.0051	1.061	.0053	.0536	.0106	.0275
Stddev	.0002	.0145	.0003	.0007	.0001	.009	.0000	.0001	.0004	.0003
%RSD	1.613	7.621	2.786	.3404	1.905	.8920	.8785	.2353	3.868	1.067
#1	.0108	.1775	.0101	.2078	.0052	1.058	.0052	.0535	.0101	.0278
#2	.0104	.2060	.0097	.2093	.0051	1.072	.0052	.0536	.0107	.0272
#3	.0107	.1872	.0103	.2086	.0050	1.054	.0053	.0537	.0109	.0275

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	.3390	10.50	5.236	.0165	.0501	10.53	.0433	.0046	.0064	.0098
Stddev	.0047	.06	.044	.0000	.0004	.07	.0004	.0004	.0006	.0005
%RSD	1.374	.5636	.8346	.2331	.7950	.6741	.9893	9.678	9.780	5.574
#1	.3436	10.49	5.210	.0165	.0505	10.53	.0438	.0051	.0063	.0097
#2	.3390	10.57	5.286	.0164	.0502	10.60	.0429	.0042	.0071	.0104
#3	.3343	10.45	5.210	.0165	.0497	10.46	.0433	.0045	.0059	.0094

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	.0434	.0540	.0103	.0106	.0111	.0497	.0242
Stddev	.0008	.0002	.0001	.0002	.0015	.0003	.0001
%RSD	1.894	.4587	.9801	1.807	13.79	.5070	.3172
#1	.0443	.0540	.0103	.0105	.0100	.0500	.0242
#2	.0434	.0538	.0104	.0108	.0128	.0495	.0243
#3	.0426	.0542	.0102	.0105	.0105	.0498	.0242

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	3558.8	7854.0	55738.	5374.4
Stddev	10.9	23.5	274.	29.5
%RSD	.30614	.29886	.49087	.54859
#1	3567.3	7877.6	56045.	5386.5
#2	3562.4	7853.8	55647.	5340.8
#3	3546.5	7830.6	55521.	5395.8

Zoom In
Zoom Out

Sample Name: ICSA Acquired: 4/7/2015 16:12:53 Type: Unk
Method: 60102007_042011(v216) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)
Avg	.0006	F508.1	.0005	-.0008	.0000	482.2	.0001	.0000
Stddev	.0009	2.6	.0009	.0004	.000	9.9	.0000	.0000
%RSD	138.7	.5200	181.4	47.14	144.3	2.054	34.65	86.30
#1	.0004	506.9	-.0002	-.0007	.0000	492.9	.0001	.0000
#2	.0016	511.1	.0015	-.0012	-.0001	473.3	.0002	.0001
#3	-.0001	506.3	.0002	-.0005	.0000	480.4	.0002	.0000

Elem	Cr2677	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)
Avg	.0010	-.0001	184.7	.4663	487.5	.0009	.0004	.6563
Stddev	.0011	.0005	.4	.0382	1.4	.0001	.0001	.0177
%RSD	116.2	519.9	.2253	8.193	.2823	11.06	39.30	2.702
#1	.0023	.0003	184.3	.4511	485.9	.0010	.0002	.6358
#2	.0004	-.0006	184.7	.4380	488.2	.0009	.0004	.6654
#3	.0003	.0000	185.2	.5098	488.4	.0008	.0005	.6676

Elem	Ni2316	Pb2203	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)
Avg	-.0002	F-.0058	.0005	-.0007	.0261	.0008	.0006	-.0003
Stddev	.0001	.0025	.0016	.0033	.0014	.0003	.0001	.0001
%RSD	51.77	43.35	318.4	493.4	5.518	35.89	18.38	22.12
#1	-.0002	-.0054	.0006	-.0013	.0276	.0009	.0006	-.0003
#2	-.0003	-.0085	.0021	.0029	.0247	.0004	.0004	-.0004
#3	-.0001	-.0035	-.0011	-.0036	.0261	.0009	.0007	-.0003

Elem	Tl1908	V_2924	Zn2062
IS Ref	(In2306)	(Y_3600)	(Y_2243)
Avg	.0020	.0000	.0011
Stddev	.0022	.0004	.0001
%RSD	110.2	1584.	10.72
#1	.0027	-.0001	.0012
#2	-.0005	.0005	.0010
#3	.0039	-.0003	.0010

Zoom In Zoom Out

Sample Name: ICSA Acquired: 4/7/2015 16:12:53 Type: Unk
Method: 60102007_042011(v216) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	2824.3	7053.6	48238.	5047.3
Stddev	1.4	16.4	183.	11.0
%RSD	.05061	.23287	.37835	.21764
#1	2825.9	7058.9	48449.	5058.5
#2	2823.9	7035.1	48135.	5036.5
#3	2823.2	7066.7	48130.	5046.9

Zoom In Zoom Out

Sample Name: ICSAB Acquired: 4/7/2015 16:17:36 Type: Unk
Method: 60102007_042011(v216) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)
Avg	F1.016	493.7	1.046	.5205	.5048	481.2	.9303	.4784	.4923
Stddev	.001	1.7	.006	.0009	.0027	3.6	.0054	.0029	.0015
%RSD	.1188	.3508	.5973	.1686	.5403	.7538	.5805	.6145	.3008
#1	1.017	493.2	1.040	.5207	.5017	482.5	.9241	.4750	.4933
#2	1.017	492.2	1.046	.5213	.5058	484.0	.9337	.4805	.4906
#3	1.015	495.6	1.053	.5195	.5068	477.1	.9331	.4797	.4930

Elem	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
IS Ref	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)
Avg	.5353	187.5	.3362	484.0	.5093	.9474	.5868	.9692	.9535
Stddev	.0004	.6	.0450	1.9	.0010	.0057	.0210	.0060	.0041
%RSD	.0802	.3203	13.39	.3909	.1888	.5982	3.573	.6187	.4282
#1	.5353	187.5	.2881	483.3	.5094	.9409	.5634	.9625	.9488
#2	.5357	188.0	.3773	486.1	.5083	.9514	.6038	.9740	.9563
#3	.5349	186.8	.3433	482.5	.5102	.9499	.5934	.9711	.9554

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	1.045	1.019	.1019	.9589	1.026	1.030	.9551	.4762	.9713
Stddev	.006	.005	.0004	.0050	.005	.003	.0053	.0011	.0057
%RSD	.6204	.4622	.3597	.5168	.4720	.2879	.5586	.2335	.5895
#1	1.038	1.013	.1015	.9538	1.024	1.033	.9489	.4773	.9647
#2	1.051	1.022	.1022	.9637	1.032	1.027	.9580	.4751	.9747
#3	1.047	1.021	.1021	.9593	1.023	1.029	.9583	.4763	.9745

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	2775.9	7022.4	48654.	5021.8
Stddev	16.4	42.8	437.	22.2
%RSD	.59258	.60939	.89850	.44120
#1	2794.6	7070.6	48354.	4996.5
#2	2769.3	7007.9	49156.	5031.7
#3	2763.7	6988.8	48453.	5037.4

Zoom In Zoom Out

Sample Name: CCV Acquired: 4/7/2015 16:22:15 Type: QC
Method: 60102007_042011(v216) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2495	40.05	1.970	1.988	1.984	39.79	1.990	1.989	2.004	2.003
Stddev	.0013	.16	.015	.004	.004	.08	.010	.010	.005	.002
%RSD	.5362	.4062	.7349	.2270	.2088	.2067	.5155	.5187	.2759	.1197
#1	.2506	39.96	1.962	1.991	1.987	39.77	1.985	1.983	2.000	2.000
#2	.2499	39.96	1.987	1.983	1.980	39.72	2.002	2.001	2.003	2.003
#3	.2480	40.24	1.962	1.991	1.986	39.88	1.983	1.983	2.011	2.005
Check ?	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass
Value																				
Range																				

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	39.88	39.51	39.86	1.997	1.993	40.10	1.996	1.956	1.962	1.982
Stddev	.03	.15	.14	.020	.011	.08	.010	.012	.013	.014
%RSD	.0850	.3865	.3430	1.023	.5525	.1884	.5215	.6127	.6449	.7063
#1	39.85	39.49	39.92	1.977	1.988	40.16	1.989	1.947	1.958	1.971
#2	39.86	39.37	39.70	1.997	2.006	40.02	2.008	1.969	1.976	1.997
#3	39.91	39.67	39.95	2.018	1.986	40.14	1.991	1.951	1.952	1.976
Check ?	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass
Value																				
Range																				

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.227	2.007	2.011	2.049	1.976	1.996	1.999
Stddev	.010	.012	.004	.001	.009	.002	.011
%RSD	.4677	.5914	.2123	.0695	.4473	.0758	.5376
#1	2.223	2.001	2.011	2.050	1.970	1.998	1.992
#2	2.238	2.021	2.006	2.049	1.986	1.996	2.012
#3	2.219	1.999	2.015	2.047	1.972	1.995	1.994
Check ?	None	Chk	Pass	Chk	Pass	Chk	Pass	Chk	Pass
Value									
Range									

Zoom In Zoom Out

Sample Name: CCV Acquired: 4/7/2015 16:22:15 Type: QC
Method: 60102007_042011(v216) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3150.9	7579.5	53773.	5284.8
Stddev	15.7	38.2	347.	15.6
%RSD	.49967	.50445	.64592	.29441
#1	3166.0	7615.6	53832.	5297.7
#2	3134.6	7539.5	54087.	5289.3
#3	3152.2	7583.5	53400.	5267.5

Zoom In Zoom Out

Sample Name: CCB Acquired: 4/7/2015 16:26:45 Type: QC
Method: 60102007_042011(v216) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0005	-.0071	.0001	.0003	.0004	.0077	.0001	.0001	-.0001
Stddev	.0004	.0219	.0008	.0003	.0002	.0028	.0000	.0001	.0003
%RSD	79.94	309.1	1359.	86.41	48.55	35.71	13.46	69.02	258.2
#1	.0010	.0069	-.0009	.0004	.0006	.0109	.0001	.0002	-.0001
#2	.0004	.0042	.0005	.0000	.0004	.0063	.0002	.0002	.0002
#3	.0002	-.0323	.0006	.0006	.0002	.0060	.0001	.0000	-.0004
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0001	.0177	.0909	.0029	.0002	F.0012	.0390	.0000	.0001
Stddev	.0004	.0030	.0299	.0084	.0001	.0002	.0195	.0000	.0008
%RSD	288.9	17.22	32.93	286.9	39.74	18.85	49.86	86.15	1154.
#1	.0001	.0209	.0724	-.0067	.0002	.0014	.0167	.0001	-.0007
#2	-.0006	.0174	.0748	.0065	.0001	.0010	.0527	.0001	.0009
#3	.0001	.0148	.1254	.0089	.0001	.0011	.0476	.0000	.0000
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit						.0010			
Low Limit						-.0010			

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F.0024	-.0002	-.0008	.0003	.0004	.0008	.0008	.0001	.0001
Stddev	.0023	.0004	.0004	.0002	.0001	.0001	.0013	.0001	.0000
%RSD	95.02	169.9	46.76	73.35	24.83	11.86	166.8	80.61	44.11
#1	.0048	-.0006	-.0011	.0005	.0003	.0009	.0001	.0001	.0001
#2	.0004	.0002	-.0007	.0004	.0006	.0008	.0024	.0001	.0001
#3	.0019	-.0002	-.0004	.0001	.0004	.0007	.0000	.0000	.0001
Check ?	Chk Fail	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	.0020								
Low Limit	-.0020								

Zoom In Zoom Out

Sample Name: CCB Acquired: 4/7/2015 16:26:45 Type: QC
Method: 60102007_042011(v216) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE01: : :
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3824.4	8078.4	57423.	5444.4
Stddev	1.9	7.5	264.	14.2
%RSD	.04999	.09298	.45983	.26080
#1	3822.2	8079.6	57126.	5442.9
#2	3825.8	8085.2	57512.	5459.3
#3	3825.2	8070.3	57631.	5431.0

Element, Wavelength and Order	Use?	# IECs	IEC	k1	k2	Calc-in-fit?
Ag 328.068 {103}	X	2	V	-0.005817	0.000000	No
			Fe	0.000005	0.000000	No
Al 396.152 { 85}	X	1	Mo	0.040330	0.000000	No
As 189.042 {478}	X	4	Fe	-0.000091	0.000000	No
			Cr	-0.000653	0.000000	No
			Mo	0.000444	0.000000	No
			Al	0.000001	0.000000	No
Ba 455.403 { 74}	X	1	Fe	0.000007	0.000000	No
Be 313.042 {108}	X	2	V	0.000625	0.000000	No
			Ti	-0.000289	0.000000	No
Ca 317.933 {106}	X	None				
Cd 226.502 {449}	X	4	Fe	0.000051	0.000000	No
			Ca	-0.000000	0.000000	No
			Al	-0.000002	0.000000	No
			Ti	0.000103	0.000000	No
Co 228.616 {447}	X	3	Mo	-0.001220	0.000000	No
			Ti	0.002210	0.000000	No
			Fe	0.000001	0.000000	No
Cr 267.716 {126}	X	4	Al	0.000001	0.000000	No
			Fe	-0.000002	0.000000	No
			Ca	-0.000000	0.000000	No
			Cd	-0.000120	0.000000	No
Cu 324.754 {104}	X	10	Mo	0.000189	0.000000	No
			Sn	-0.000012	0.000000	No
			V	-0.000158	0.000000	No
			Al	0.000003	0.000000	No
			Mg	0.000003	0.000000	No
			Co	-0.000547	0.000000	No
			Cd	0.000190	0.000000	No
			Fe	-0.000188	0.000000	No
			Ca	0.000001	0.000000	No
			Ti	-0.000268	0.000000	No
Fe 259.940 {130}	X	None				
In 230.606 {446}*	X	None				
K 766.490 { 44}	X	None				
Mg 279.079 {121}	X	None				
Mn 257.610 {131}	X	2	Fe	-0.000005	0.000000	No
			Mg	0.000000	0.000000	No
Mo 202.030 {467}	X	1	Fe	-0.000002	0.000000	No
Na 589.592 { 57}	X	None				
Ni 231.604 {445}	X	7	Fe	-0.000029	0.000000	No
			Co	0.000112	0.000000	No
			Mo	0.000980	0.000000	No
			Sb	-0.000120	0.000000	No
			Al	-0.000000	0.000000	No
			Be	-0.000304	0.000000	No
			Tl	0.000172	0.000000	No
Pb 220.353 {453}	X	8	Al	0.000499	0.000000	No
			Fe	-0.000452	0.000000	No
			Mo	-0.002189	0.000000	No
			Cu	0.000467	0.000000	No
			Ti	0.000036	0.000000	No
			Si	0.000178	0.000000	No
			Ca	-0.000005	0.000000	No
			Cr	-0.000260	0.000000	No
Sb 206.833 {463}	X	11	Fe	0.000078	0.000000	No
			Cr	0.011486	0.000000	No

Element, Wavelength and Order	Use?	# IECs	IEC	k1	k2	Calc-in-fit?
			Mo	-0.003944	0.000000	No
			V	-0.000441	0.000000	No
			Sn	-0.008695	0.000000	No
			Ti	0.000278	0.000000	No
			Ca	-0.000009	0.000000	No
			Ni	-0.000818	0.000000	No
			Al	0.000006	0.000000	No
			Mn	-0.000133	0.000000	No
			Mg	-0.000000	0.000000	No
Se 196.090 {472}	X	12	Fe	-0.000003	0.000000	No
			Ca	0.000004	0.000000	No
			Mn	0.000331	0.000000	No
			Mo	0.000111	0.000000	No
			Al	-0.000025	0.000000	No
			V	0.000000	0.000000	No
			Zn	0.000000	0.000000	No
			Sr	-0.000111	0.000000	No
			As	0.000125	0.000000	No
			Cd	-0.000250	0.000000	No
			Mg	0.000001	0.000000	No
			Cr	-0.000326	0.000000	No
Si 212.412 {459}	X	1	Mo	0.019120	0.000000	No
Sn 189.989 {477}	X	None				
Sr 407.771 { 83}	X	1	Ca	0.000012	0.000000	No
Ti 334.941 {101}	X	1	Ca	-0.000007	0.000000	No
Tl 190.856 {477}	X	10	Co	0.004099	0.000000	No
			Fe	0.000018	0.000000	No
			Al	-0.000018	0.000000	No
			Ba	-0.000051	0.000000	No
			Ti	-0.000648	0.000000	No
			Sb	0.000167	0.000000	No
			Ca	-0.000004	0.000000	No
			Cr	0.000340	0.000000	No
			Mg	-0.000001	0.000000	No
			V	0.000015	0.000000	No
V 292.402 {115}	X	5	Fe	-0.000009	0.000000	No
			Cr	-0.003634	0.000000	No
			Mo	-0.009536	0.000000	No
			Ti	0.000303	0.000000	No
			Mn	-0.000333	0.000000	No
Y 224.306 {450}*	X	None				
Y 360.073 { 94}*	X	None				
Y 371.030 { 91}*	X	None				
Zn 206.200 {463}	X	5	Cr	-0.001305	0.000000	No
			Al	0.000000	0.000000	No
			Ca	0.000003	0.000000	No
			Fe	0.000000	0.000000	No
			As	0.001105	0.000000	No

Element, Wavelength and Order	Date of Fit	Date of Cal.	Type of Fit	Weighting	A0	A1	A2	n (Exponent)
Ag 328.068 {103}	4/7/2015 10:33:15	4/7/2015 10:00:23	Linear	1/Conc	0.001977	0.564121	0.000000	1.000000
Al 396.152 { 85}	4/7/2015 10:33:15	4/7/2015 10:00:23	Linear	1/Conc	0.003473	0.154868	0.000000	1.000000
As 189.042 {478}	4/7/2015 10:33:15	4/7/2015 10:00:23	Linear	1/Conc	-0.000359	0.182294	0.000000	1.000000
Ba 455.403 { 74}	4/7/2015 10:33:15	4/7/2015 10:00:23	Linear	1/Conc	-0.002817	7.211876	0.000000	1.000000
Be 313.042 {108}	4/7/2015 10:33:15	4/7/2015 10:00:23	Linear	1/Conc	-0.000117	6.971630	0.000000	1.000000
Ca 317.933 {106}	4/7/2015 10:33:15	4/7/2015 10:00:23	Linear	1/Conc	0.008677	0.304440	0.000000	1.000000
Cd 226.502 {449}	4/7/2015 10:33:15	4/7/2015 10:00:23	Linear	1/Conc	-0.001571	5.160705	0.000000	1.000000
Co 228.616 {447}	4/7/2015 10:33:15	4/7/2015 10:00:23	Linear	1/Conc	-0.000608	2.509066	0.000000	1.000000
Cr 267.716 {126}	4/7/2015 10:33:15	4/7/2015 10:00:23	Linear	1/Conc	-0.000398	0.496812	0.000000	1.000000
Cu 324.754 {104}	4/7/2015 10:33:15	4/7/2015 10:00:23	Linear	1/Conc	0.003255	0.651800	0.000000	1.000000
Fe 259.940 {130}	4/7/2015 10:33:15	4/7/2015 10:00:23	Linear	1/Conc	0.001381	0.201570	0.000000	1.000000
In 230.606 {446}*	4/7/2015 10:33:15	5/5/2010 12:30:54	Linear	1/Conc	0.000000	0.000000	0.000000	1.000000
K 766.490 { 44}	4/7/2015 10:33:15	4/7/2015 10:00:23	Linear	1/Conc	-0.010262	0.062902	0.000000	1.000000
Mg 279.079 {121}	4/7/2015 10:33:15	4/7/2015 10:00:23	Linear	1/Conc	-0.000819	0.036099	0.000000	1.000000
Mn 257.610 {131}	4/7/2015 10:33:15	4/7/2015 10:00:23	Linear	1/Conc	0.000576	2.804612	0.000000	1.000000
Mo 202.030 {467}	4/7/2015 10:33:15	4/7/2015 10:00:23	Linear	1/Conc	0.000930	1.010030	0.000000	1.000000
Na 589.592 { 57}	4/7/2015 10:33:15	4/7/2015 10:00:23	Linear	1/Conc	0.018450	0.222761	0.000000	1.000000
Ni 231.604 {445}	4/7/2015 10:33:15	4/7/2015 10:00:23	Linear	1/Conc	0.001570	1.360717	0.000000	1.000000
Pb 220.353 {453}	4/7/2015 10:33:15	4/7/2015 10:00:23	Linear	1/Conc	-0.003657	1.073878	0.000000	1.000000
Sb 206.833 {463}	4/7/2015 10:33:15	4/7/2015 10:00:23	Linear	1/Conc	0.001050	0.207458	0.000000	1.000000
Se 196.090 {472}	4/7/2015 10:33:15	4/7/2015 10:00:23	Linear	1/Conc	-0.000580	0.137440	0.000000	1.000000
Si 212.412 {459}	4/7/2015 10:33:15	4/7/2015 10:00:23	Linear	1/Conc	0.004031	0.307805	0.000000	1.000000
Sn 189.989 {477}	4/7/2015 10:33:15	4/7/2015 10:00:23	Linear	1/Conc	0.000849	0.476229	0.000000	1.000000
Sr 407.771 { 83}	4/7/2015 10:33:15	4/7/2015 10:00:23	Linear	1/Conc	0.001592	10.578751	0.000000	1.000000
Ti 334.941 {101}	4/7/2015 10:33:15	4/7/2015 10:00:23	Linear	1/Conc	0.001678	1.479711	0.000000	1.000000
Tl 190.856 {477}	4/7/2015 10:33:15	4/7/2015 10:00:23	Linear	1/Conc	-0.002144	0.338070	0.000000	1.000000
V 292.402 {115}	4/7/2015 10:33:15	4/7/2015 10:00:23	Linear	1/Conc	-0.000929	0.552446	0.000000	1.000000
Y 224.306 {450}*	<not fit>	<Never Calibrated>	Linear	1/Conc	0.000000	0.000000	0.000000	1.000000
Y 360.073 { 94}*	<not fit>	<Never Calibrated>	Linear	1/Conc	0.000000	0.000000	0.000000	1.000000
Y 371.030 { 91}*	<not fit>	<Never Calibrated>	Linear	1/Conc	0.000000	0.000000	0.000000	1.000000
Zn 206.200 {463}	4/7/2015 10:33:15	4/7/2015 10:00:23	Linear	1/Conc	0.002033	3.194374	0.000000	1.000000

Element, Wavelength and Order	Correlation	Std Error of Est	Predicted MDL	Predicted MQL	Status	Reslope		QC Norm	
						Slope	Y-int	Slope factor	Offset
Ag 328.068 {103}	0.999968	0.000043	0.000479	0.001596	OK.	1.000000	0.000000	1	0
Al 396.152 { 85}	0.999943	0.002674	0.010824	0.036080	OK.	1.000000	0.000000	1	0
As 189.042 {478}	0.999905	0.000202	0.000840	0.002799	OK.	1.000000	0.000000	1	0
Ba 455.403 { 74}	0.999999	0.000938	0.000297	0.000989	OK.	1.000000	0.000000	1	0
Be 313.042 {108}	0.999992	0.002196	0.000103	0.000344	OK.	1.000000	0.000000	1	0
Ca 317.933 {106}	0.999969	0.003877	0.003062	0.010207	OK.	1.000000	0.000000	1	0
Cd 226.502 {449}	1.000000	0.000248	0.000048	0.000160	OK.	1.000000	0.000000	1	0
Co 228.616 {447}	0.999997	0.000507	0.000110	0.000368	OK.	1.000000	0.000000	1	0
Cr 267.716 {126}	0.999999	0.000053	0.000315	0.001051	OK.	1.000000	0.000000	1	0
Cu 324.754 {104}	0.999998	0.000107	0.000362	0.001207	OK.	1.000000	0.000000	1	0
Fe 259.940 {130}	0.999926	0.003937	0.002362	0.007873	OK.	1.000000	0.000000	1	0
In 230.606 {446}*	0.000000	0.000000	-1.000000	-1.000000	Warnin	1.000000	0.000000	1	0
K 766.490 { 44}	0.999950	0.001012	0.045738	0.152461	OK.	1.000000	0.000000	1	0
Mg 279.079 {121}	0.999981	0.000359	0.016724	0.055746	OK.	1.000000	0.000000	1	0
Mn 257.610 {131}	0.999989	0.001064	0.000052	0.000175	OK.	1.000000	0.000000	1	0
Mo 202.030 {467}	0.999989	0.000376	0.000159	0.000531	OK.	1.000000	0.000000	1	0
Na 589.592 { 57}	0.999979	0.002332	0.012812	0.042708	OK.	1.000000	0.000000	1	0
Ni 231.604 {445}	0.999993	0.000401	0.000206	0.000686	OK.	1.000000	0.000000	1	0
Pb 220.353 {453}	0.999781	0.001807	0.000513	0.001710	OK.	1.000000	0.000000	1	0
Sb 206.833 {463}	0.999942	0.000180	0.001234	0.004115	OK.	1.000000	0.000000	1	0
Se 196.090 {472}	0.999952	0.000108	0.001688	0.005627	OK.	1.000000	0.000000	1	0
Si 212.412 {459}	0.982634	0.004771	0.000584	0.001947	OK.	1.000000	0.000000	1	0
Sn 189.989 {477}	0.999908	0.000520	0.000277	0.000924	OK.	1.000000	0.000000	1	0
Sr 407.771 { 83}	0.999707	0.020638	0.000127	0.000425	OK.	1.000000	0.000000	1	0
Ti 334.941 {101}	0.999877	0.001871	0.000168	0.000559	OK.	1.000000	0.000000	1	0
Tl 190.856 {477}	0.999963	0.000236	0.000901	0.003005	OK.	1.000000	0.000000	1	0
V 292.402 {115}	0.999991	0.000185	0.000358	0.001195	OK.	1.000000	0.000000	1	0
Y 224.306 {450}*	0.000000	0.000000	-1.000000	-1.000000	Warnin	1.000000	0.000000	1	0
Y 360.073 { 94}*	0.000000	0.000000	-1.000000	-1.000000	Warnin	1.000000	0.000000	1	0
Y 371.030 { 91}*	0.000000	0.000000	-1.000000	-1.000000	Warnin	1.000000	0.000000	1	0
Zn 206.200 {463}	0.999998	0.000483	0.000059	0.000195	OK.	1.000000	0.000000	1	0

DOD

Accutest Laboratories SE Metals Digestion Log Soil

MP #: 28752 Method of Digestion: SW846-3050B

Prep Date/Time (mm/dd/yy 24:00): 4/3/15 8:04

HotBlock I.D. 5

Thermometer I.D. 204

Correction Factor (°C) -1

Temperature Observed/Corrected (°C) 94/93

Balance I.D. ADVPRO 3

Spk. Sol. [A]	Volume Used(ml)	Pipette #
ACC 875	0.50	10
ACC 866	0.25	10
Met 5093	0.25	10

Filter Lot#: 140730082

Dig. Tube Lot# MP2492

Added [B]:	H_2O_2	HNO_3	HCL	PTFE Boiling Chips
Lot#	145881	0000102053	0000088821	K779-4K004

Sample #			Wt., g	Final Volume(ml)	Comments
Method Blank(MB)			1.00	50.0	
Spike Blank(SB)			1.00		
Matrix Spike(MS)			1.27		
Matrix Spike Dup(MSD)			1.28		
Duplicate(DUP)			1.14		
1 QC [C]	FA23258-5	[D] 3	1.23		
2	1	1	1.05		
3	3		1.10		
4	7		1.24		
5	8		1.16		
6	10		1.27		
7	12		1.34		
8	15		1.16		
9	17		1.11		
10	19		1.03		
11	21		1.25		
12	22		1.10		
13	23		1.24		
14	25		1.18		
15	27		1.15		
16	29		1.33		
17	31		1.11		
18	33		1.02		
19	FA23189-39		1.15		
20	41		1.23		
21 [E]					
22 [E]					DB
23 [E]					
24 [E]	4/3/15				

Analyst: [signature] Date: 4/3/15

QC Review: [signature] Date: 4.3.15

A Used for SB, MS, MSD
B For reagent volumes used consult SOP MET 104, current revision
C Parent sample used to prepare MS, MSD, DUP
D Bottle Number
E Additional Matrix QC

icpsoildigestionlog012010.xls Rev 01/20/10 DM

DOD

Accutest Laboratories SE Metals Digestion Log Soil

MP #: 28755 Method of Digestion: SW846-3050B

Prep Date/Time (mm/dd/yy 24:00): 4/3/15 9:41

HotBlock I.D. 6

Thermometer I.D. 6071

Correction Factor (°C) -1

Temperature Observed/Corrected (°C) 93/92

Balance I.D. ADVPR03

Spk. Sol. A	Volume Used(ml)	Pipette #
ACC 875	0.50	10
ACC 866	0.25	10
*Met 24 5093	0.25	10

Filter Lot#: 140730082

Dig. Tube Lot# MP 2492

Added B:	H_2O_2	HNO_3	HCL	PTFE Boiling Chips
Lot#	145881	0000102053	0000088821	K779-4K004

Sample #		Wt., g	Final Volume(ml)	Comments
Method Blank(MB)		1.00	50.0	
Spike Blank(SB)		1.00		
Matrix Spike(MS)		1.20		
Matrix Spike Dup(MSD)		1.05		
Duplicate(DUP)		1.08		
1 QC C	FA23275-8 D 5	1.25		
2	FA23001-34R 1	1.48		
3	35R	1.15		
4	36R	1.09		
5	37R	1.22		
6	38R	1.17		
7	39R	1.19		
8	FA23258-35	1.45		
9	37	1.32		
10	39	1.32		
11	41	1.10		
12	FA23272-1	1.45		
13	2	1.32		
14	3	1.28		
15	4	1.34		
16	5	1.25		
17	6	1.41		
18	7	1.31		
19	8	1.38		
20	9	1.39		
21 E				
22 E				
23 E				
24 E				

DB 4/3/15

Analyst: [signature] Date: 4/3/15

QC Review: [signature] Date: 4-3-15

A Used for SB, MS, MSD
B For reagent volumes used consult SOP MET 104, current revision
C Parent sample used to prepare MS, MSD, DUP
D Bottle Number
E Additional Matrix QC

icpsoildigestionlog012010.xls Rev 01/20/10 DM

* DB 4/3/15

88

9.5.2

9

Accutest Laboratories SE **Metals Digestion Log Water** DOD

Method of digestion(circle one): SW846-3010A / SW846-3005A / EPA 200.7 / SM3030C

MP #: 28764

Prep Date/Time (mm/dd/yy 24:00): 4/7/15 7:38

HotBlock I.D. 5

Thermometer I.D. 204

Correction Factor (°C) -1

Temperature Observed/Corrected (°C) 91, 90

Spk. Sol. A	Volume Used(ml)	Pipette #
ACC 875	0.50	10
ACC 866	0.25	10
Met 5093	0.25	10

Dig. Tube Lot#: MP2492

Added B: HNO_3 HCL

Lot# 0000102053 0000088821

Sample #		D	Initial Volume(ml)	pH<2	Final Volume(ml)	Comments
Method Blank(MB)			50.0	N/A	50.0	
Spike Blank(SB)				N/A		
Matrix Spike(MS)				✓		
Matrix Spike Dup(MSD)				✓		
Duplicate(DUP)				✓		
1 QC C	FA23126-1	1		✓		
2	2	1		✓		
3	6	18		✓		
4	1F	2		✓		
5	2F	2		✓		
6	6F	19		✓		
7	FA23258-14	3		✓		
8	FA23267-1	1		✓		
9	2	3		✓		
10	1F	2		✓		
11	2F	4		✓		
12						
13						
14						
15						
16						
17						
18						
19						
20						
21 E						
22 E						
23 E						
24 E						

DB 4/7/15

Analyst: [signature] Date: 4/7/15

QC Review: [signature] Date: 4.7.15

A Used for SB, MS, MSD
B For reagent volumes used consult SOP MET 103, current revision
C Parent sample used to prepare MS, MSD, DUP
D Bottle Number
E Additional matrix QC

icpwaterdigestionlog091113.xls Rev 01/20/10 DM

Southeast ACCUTEST LABORATORIES

General Chemistry

QC Data Summaries

Includes the following where applicable:

- Percent Solids Raw Data Summary

Percent Solids Raw Data Summary

Job Number: FA23258
Account: FPMRNYR FPM Remediations
Project: HM-AZ PBR Holloman AFB; Alamogordo, NM

Sample: FA23258-1 **Analyzed:** 02-APR-15 by JC **Method:** SM19 2540G
ClientID: TS862-1

Wet Weight (Total)	8.13	g
Tare Weight	1.03	g
Dry Weight (Total)	6.83	g
Solids, Percent	81.7	%

Sample: FA23258-2 **Analyzed:** 02-APR-15 by JC **Method:** SM19 2540G
ClientID: TS862-1A

Wet Weight (Total)	8.42	g
Tare Weight	.99	g
Dry Weight (Total)	7.2	g
Solids, Percent	83.6	%

Sample: FA23258-3 **Analyzed:** 02-APR-15 by JC **Method:** SM19 2540G
ClientID: TS862-2

Wet Weight (Total)	9.03	g
Tare Weight	1.04	g
Dry Weight (Total)	7.58	g
Solids, Percent	81.9	%

Sample: FA23258-4 **Analyzed:** 02-APR-15 by JC **Method:** SM19 2540G
ClientID: TS862-2A

Wet Weight (Total)	8.48	g
Tare Weight	1.05	g
Dry Weight (Total)	7.09	g
Solids, Percent	81.3	%

Sample: FA23258-5 **Analyzed:** 02-APR-15 by JC **Method:** SM19 2540G
ClientID: TS862-3

Wet Weight (Total)	9.2	g
Tare Weight	1.03	g
Dry Weight (Total)	7.8	g
Solids, Percent	82.9	%

Sample: FA23258-6 **Analyzed:** 02-APR-15 by JC **Method:** SM19 2540G
ClientID: TS862-3A

Wet Weight (Total)	8.1	g
Tare Weight	1.06	g
Dry Weight (Total)	6.88	g
Solids, Percent	82.7	%

Percent Solids Raw Data Summary

Job Number: FA23258
Account: FPMRNYR FPM Remediations
Project: HM-AZ PBR Holloman AFB; Alamogordo, NM

Sample: FA23258-7 **Analyzed:** 02-APR-15 by JC **Method:** SM19 2540G
ClientID: TS862-4

Wet Weight (Total)	9.49	g
Tare Weight	1.04	g
Dry Weight (Total)	8.25	g
Solids, Percent	85.3	%

Sample: FA23258-8 **Analyzed:** 02-APR-15 by JC **Method:** SM19 2540G
ClientID: TS862-104

Wet Weight (Total)	8.63	g
Tare Weight	1.04	g
Dry Weight (Total)	7.44	g
Solids, Percent	84.3	%

Sample: FA23258-9 **Analyzed:** 02-APR-15 by JC **Method:** SM19 2540G
ClientID: TS862-4A

Wet Weight (Total)	7.49	g
Tare Weight	1.03	g
Dry Weight (Total)	6.6	g
Solids, Percent	86.2	%

Sample: FA23258-10 **Analyzed:** 02-APR-15 by JC **Method:** SM19 2540G
ClientID: TS862-5

Wet Weight (Total)	9.84	g
Tare Weight	1	g
Dry Weight (Total)	8.21	g
Solids, Percent	81.6	%

Sample: FA23258-11 **Analyzed:** 02-APR-15 by JC **Method:** SM19 2540G
ClientID: TS862-5A

Wet Weight (Total)	9.8	g
Tare Weight	1.03	g
Dry Weight (Total)	8.17	g
Solids, Percent	81.4	%

Sample: FA23258-12 **Analyzed:** 02-APR-15 by JC **Method:** SM19 2540G
ClientID: TS862-6

Wet Weight (Total)	8.05	g
Tare Weight	.98	g
Dry Weight (Total)	6.96	g
Solids, Percent	84.6	%

Percent Solids Raw Data Summary

Job Number: FA23258
Account: FPMRNYR FPM Remediations
Project: HM-AZ PBR Holloman AFB; Alamogordo, NM

Sample: FA23258-13 **Analyzed:** 02-APR-15 by JC **Method:** SM19 2540G
ClientID: TS862-6A

Wet Weight (Total)	7.6	g
Tare Weight	1.03	g
Dry Weight (Total)	6.71	g
Solids, Percent	86.5	%

Sample: FA23258-15 **Analyzed:** 02-APR-15 by JC **Method:** SM19 2540G
ClientID: TS862-7

Wet Weight (Total)	8.41	g
Tare Weight	1.01	g
Dry Weight (Total)	7.51	g
Solids, Percent	87.8	%

Sample: FA23258-16 **Analyzed:** 02-APR-15 by JC **Method:** SM19 2540G
ClientID: TS862-7A

Wet Weight (Total)	7.64	g
Tare Weight	1	g
Dry Weight (Total)	6.82	g
Solids, Percent	87.7	%

Sample: FA23258-17 **Analyzed:** 02-APR-15 by JC **Method:** SM19 2540G
ClientID: TS862-8

Wet Weight (Total)	9.53	g
Tare Weight	1.03	g
Dry Weight (Total)	8.13	g
Solids, Percent	83.5	%

Sample: FA23258-18 **Analyzed:** 02-APR-15 by JC **Method:** SM19 2540G
ClientID: TS862-8A

Wet Weight (Total)	7.25	g
Tare Weight	1	g
Dry Weight (Total)	6.32	g
Solids, Percent	85.1	%

Sample: FA23258-19 **Analyzed:** 02-APR-15 by JC **Method:** SM19 2540G
ClientID: TS862-9

Wet Weight (Total)	8.09	g
Tare Weight	1.02	g
Dry Weight (Total)	6.89	g
Solids, Percent	83	%

Percent Solids Raw Data Summary

Job Number: FA23258
Account: FPMRNYR FPM Remediations
Project: HM-AZ PBR Holloman AFB; Alamogordo, NM

Sample: FA23258-20 **Analyzed:** 02-APR-15 by JC **Method:** SM19 2540G
ClientID: TS862-9A

Wet Weight (Total)	8.84	g
Tare Weight	1.05	g
Dry Weight (Total)	7.63	g
Solids, Percent	84.5	%

Sample: FA23258-21 **Analyzed:** 02-APR-15 by JC **Method:** SM19 2540G
ClientID: TS862-10

Wet Weight (Total)	8.71	g
Tare Weight	1.02	g
Dry Weight (Total)	7.57	g
Solids, Percent	85.2	%

Sample: FA23258-22 **Analyzed:** 02-APR-15 by JC **Method:** SM19 2540G
ClientID: TS862-11

Wet Weight (Total)	8.67	g
Tare Weight	1.04	g
Dry Weight (Total)	7.37	g
Solids, Percent	83	%

Sample: FA23258-23 **Analyzed:** 02-APR-15 by JC **Method:** SM19 2540G
ClientID: TS862-107

Wet Weight (Total)	8.13	g
Tare Weight	1.01	g
Dry Weight (Total)	7.1	g
Solids, Percent	85.5	%

Sample: FA23258-24 **Analyzed:** 02-APR-15 by JC **Method:** SM19 2540G
ClientID: TS862-11A

Wet Weight (Total)	7.68	g
Tare Weight	1.05	g
Dry Weight (Total)	6.72	g
Solids, Percent	85.5	%

Sample: FA23258-25 **Analyzed:** 02-APR-15 by JC **Method:** SM19 2540G
ClientID: TS862-12

Wet Weight (Total)	7.35	g
Tare Weight	1.01	g
Dry Weight (Total)	6.22	g
Solids, Percent	82.2	%

Percent Solids Raw Data Summary

Job Number: FA23258
Account: FPMRNYR FPM Remediations
Project: HM-AZ PBR Holloman AFB; Alamogordo, NM

Sample: FA23258-26 **Analyzed:** 02-APR-15 by JC **Method:** SM19 2540G
ClientID: TS862-12A

Wet Weight (Total)	7.55	g
Tare Weight	1.03	g
Dry Weight (Total)	6.49	g
Solids, Percent	83.7	%

Sample: FA23258-27 **Analyzed:** 02-APR-15 by JC **Method:** SM19 2540G
ClientID: TS862-13

Wet Weight (Total)	9.48	g
Tare Weight	.99	g
Dry Weight (Total)	8.02	g
Solids, Percent	82.8	%

Sample: FA23258-28 **Analyzed:** 02-APR-15 by JC **Method:** SM19 2540G
ClientID: TS862-13A

Wet Weight (Total)	8.36	g
Tare Weight	1.04	g
Dry Weight (Total)	7.1	g
Solids, Percent	82.8	%

Sample: FA23258-29 **Analyzed:** 02-APR-15 by JC **Method:** SM19 2540G
ClientID: TS862-14

Wet Weight (Total)	7.68	g
Tare Weight	1.05	g
Dry Weight (Total)	6.7	g
Solids, Percent	85.2	%

Sample: FA23258-30 **Analyzed:** 02-APR-15 by JC **Method:** SM19 2540G
ClientID: TS862-14A

Wet Weight (Total)	7.51	g
Tare Weight	.97	g
Dry Weight (Total)	6.64	g
Solids, Percent	86.7	%

Sample: FA23258-31 **Analyzed:** 02-APR-15 by JC **Method:** SM19 2540G
ClientID: TS862-15

Wet Weight (Total)	7.5	g
Tare Weight	1.02	g
Dry Weight (Total)	6.34	g
Solids, Percent	82.1	%

Percent Solids Raw Data Summary

Job Number: FA23258
Account: FPMRNYR FPM Remediations
Project: HM-AZ PBR Holloman AFB; Alamogordo, NM

Sample: FA23258-32 **Analyzed:** 02-APR-15 by JC **Method:** SM19 2540G
ClientID: TS862-15A

Wet Weight (Total)	9.76	g
Tare Weight	1	g
Dry Weight (Total)	8.67	g
Solids, Percent	87.6	%

Sample: FA23258-33 **Analyzed:** 02-APR-15 by JC **Method:** SM19 2540G
ClientID: TS862-16

Wet Weight (Total)	7.74	g
Tare Weight	1.05	g
Dry Weight (Total)	6.47	g
Solids, Percent	81	%

Sample: FA23258-34 **Analyzed:** 02-APR-15 by JC **Method:** SM19 2540G
ClientID: TS862-16A

Wet Weight (Total)	8.47	g
Tare Weight	1	g
Dry Weight (Total)	6.69	g
Solids, Percent	76.2	%

Sample: FA23258-35 **Analyzed:** 02-APR-15 by JC **Method:** SM19 2540G
ClientID: TS862-17

Wet Weight (Total)	8.32	g
Tare Weight	1.04	g
Dry Weight (Total)	7.17	g
Solids, Percent	84.2	%

Sample: FA23258-36 **Analyzed:** 02-APR-15 by JC **Method:** SM19 2540G
ClientID: TS862-17A

Wet Weight (Total)	8.91	g
Tare Weight	1.03	g
Dry Weight (Total)	7.56	g
Solids, Percent	82.9	%

Sample: FA23258-37 **Analyzed:** 02-APR-15 by JC **Method:** SM19 2540G
ClientID: TS862-18

Wet Weight (Total)	8.13	g
Tare Weight	1.01	g
Dry Weight (Total)	6.84	g
Solids, Percent	81.9	%

Percent Solids Raw Data Summary

Job Number: FA23258
Account: FPMRNYR FPM Remediations
Project: HM-AZ PBR Holloman AFB; Alamogordo, NM

Sample: FA23258-38 **Analyzed:** 02-APR-15 by JC **Method:** SM19 2540G
ClientID: TS862-18A

Wet Weight (Total)	9.81	g
Tare Weight	1.01	g
Dry Weight (Total)	8.34	g
Solids, Percent	83.3	%

Sample: FA23258-39 **Analyzed:** 02-APR-15 by JC **Method:** SM19 2540G
ClientID: TS862-19

Wet Weight (Total)	7.15	g
Tare Weight	1	g
Dry Weight (Total)	5.92	g
Solids, Percent	80	%

Sample: FA23258-40 **Analyzed:** 02-APR-15 by JC **Method:** SM19 2540G
ClientID: TS862-19A

Wet Weight (Total)	8.08	g
Tare Weight	1.01	g
Dry Weight (Total)	6.74	g
Solids, Percent	81	%

Sample: FA23258-41 **Analyzed:** 02-APR-15 by JC **Method:** SM19 2540G
ClientID: TS862-20

Wet Weight (Total)	8.29	g
Tare Weight	1	g
Dry Weight (Total)	6.72	g
Solids, Percent	78.5	%

Sample: FA23258-42 **Analyzed:** 02-APR-15 by JC **Method:** SM19 2540G
ClientID: TS862-20A

Wet Weight (Total)	7.78	g
Tare Weight	1.03	g
Dry Weight (Total)	6.64	g
Solids, Percent	83.1	%

APPENDIX C
RI Data Validation Reports

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DATA QUALITY EVALUATION (DQE)
Holloman Air Force Base
SR859

Date(s) Sampled: March 26-27, 2015
Report Date: April 9, 2015
SDG No.: FA23189

SAMPLE IDs
SOIL:
FA23189-1 (SR859-1)
FA23189-2 (SR859-1A)
FA23189-3 (SR859-2)
FA23189-4 (SR859-2A)
FA23189-5 (SR859-3)
FA23189-6 (SR859-3A)
FA23189-7 (SR859-4)
FA23189-8 (SR859-4A)
FA23189-9 (SR859-5)
FA23189-10 (SR859-5A)
FA23189-11 (SR859-6)
FA23189-12 (SR859-6A)
FA23189-13 (SR859-7)
FA23189-15 (SR859-7A)
FA23189-16 (SR859-8)
FA23189-17 (SR859-8A)
FA23189-18 (SR859-9)
FA23189-19 (SR859-9A)
FA23189-20 (SR859-10)
FA23189-21 (SR859-10A)
FA23189-22 (SR859-11)
FA23189-23 (SR859-11A)
FA23189-24 (SR859-12)
FA23189-26 (SR859-12A)
FA23189-27 (SR859-13)
FA23189-28 (SR859-13A)
FA23189-29 (SR859-14)
FA23189-30 (SR859-14A)
FA23189-31 (SR859-15)
FA23189-32 (SR859-15A)
FA23189-33 (SR859-16)
FA23189-34 (SR859-16A)
FA23189-35 (SR859-17)
FA23189-36 (SR859-17A)
FA23189-37 (SR859-18)
FA23189-38 (SR859-18A)

FA23189-39 (SR859-19)
FA23189-40 (SR859-19A)
FA23189-41 (SR859-20)
FA23189-42 (SR859-20A)

FIELD DUPLICATE:
FA23189-14 (SR859-107) is a field duplicate sample for FA23189-13 (SR859-7). FA23189-25 (SR859-112) is a field duplicate sample for FA23189-24 (SR859-12).

MATRIX SPIKE/MATRIX SPIKE DUPLICATES (MS/MSD):
SDG FA23189: For SVOCs and metals, the laboratory used sample FA23189-20 (SR859-10) to evaluate site matrix. The laboratory also evaluated other MS/MSD samples for SVOCs and metals, but since these samples were not requested by FPM in the chain-of-custody, no action was taken for the MS/MSD criterion since the site matrix is not the same as the field samples.

BLANKS:
FA23189-43 (SR859-EB1) was the equipment blank associated with SDG FA23189.

OVERVIEW:
On March 29-30, 2015, 40 soil samples, two field duplicates, one matrix spike/matrix spike duplicate, and one equipment blank were collected from site SR859, Holloman Air Force Base (AFB). The soil samples were analyzed for semivolatile organic compounds (SVOCs) by Method 8270D and metals by Method 6010C.

The samples were assessed based on the criteria specified in the *Final SR859A Former Skeet Range 2 and SR859A Jeep Target Area Skeet Range, Remedial Investigation Work Plan, Uniform Federal Policy Quality Assurance Project Plan (UFP-QAPP)* (FPM, 2015), and internal laboratory quality control (QC) criteria. Parameters evaluated included holding times, surrogates, laboratory control samples, initial and continuing calibration blanks, method blanks, field blanks, MS/MSD analysis, and initial and continuing calibration.

Table I presents the QC requirements and the criteria, the analytes that failed the criteria, result and analysis flags, and the data to which the flags are applied. Special notes applicable to specific quality control requirements are summarized below.

SUMMARY

• Notes

- It was noted that per the chain of custody, all “A” samples were held and all “SPLP” (Synthetic Precipitation Leach Procedure) analyses were held pending results of the SVOCs and metals analyses reviewed herein. No “A” samples were analyzed per FPM, and no leachate analysis was performed.

SVOCs

- There were no exceedances for the SVOCs analyses.

METALS

- According to the case narrative, the following samples were analyzed at dilution by Method 6010C:

Sample	Analyte	Dilution
SR859-1, SR859-2, SR859-3, SR859-4, SR859-5, SR859-6, SR859-7, SR859-107, SR859-8, SR859-9, SR859-10, SR859-11, SR859-12, SR859-13, SR859-14, SR859-15, SR859-16, SR859-17, SR859-18	Antimony, Lead, Zinc	1:10
SR859-112	Antimony, Lead, Zinc	1:4
SR859-19, SR859-20	Antimony, arsenic, copper, lead	1:10

  The dilution results only are reported and are used in data verification as representing original results. The case narrative describes that these samples were analyzed at dilution due to extract appearance and viscosity.

- Field duplicate samples, which are collected at the same location and at the same time using identical collection, handling, and analytical procedures, are used to assess precision of the sample collection process. The QAPP requires qualification of data for field duplicates criterion if the duplicate samples contain detected compounds with concentrations above 5x the LOQ and the relative percent differences (RPDs) between the duplicate sample results exceed RPD control limits (50% for soil samples). If either the parent or the duplicate sample is less than 5x the LOQ, then the difference between the parent and duplicate sample must be less than 2x the LOQ. "J" flags for detects and "UJ" flags for non-detects are required per the QAPP for any exceedances.

  The following table summarizes the RPDs/total differences of field duplicate sample sets SR859-7/-107 and SR859-12/-112.

Sample ID, Normal	Sample ID, Field Duplicate	Analyte	Normal Result (mg/kg)	Field Dup Result (mg/kg)	LOQ	RPD or ±difference	Flag Applied	Rationale
SR859-7	SR859-107	Arsenic	1.4	1.2	0.58, 0.53	0.2	None	Total difference < 2x LOQ
SR859-7	SR859-107	Copper	3.8	3.2	1.5, 1.3	0.6	None	Total diff. < 2x LOQ
SR859-7	SR859-107	Lead	6.1 J	2.1 U	12, 11	4.0	None	Total diff. < 2x LOQ
SR859-7	SR859-107	Zinc	11.9 J	6.9 J	12, 11	5.0	None	Total diff. < 2x LOQ
SR859-12	SR859-112	Arsenic	2.3	2.6	0.42, 0.53	0.3	None	Total diff. < 2x LOQ
SR859-12	SR859-112	Copper	7.2	9.7	1.0, 1.3	2.5	None	Total diff. < 2x LOQ

Sample ID, Normal	Sample ID, Field Duplicate	Analyte	Normal Result (mg/kg)	Field Dup Result (mg/kg)	LOQ	RPD or ±difference	Flag Applied	Rationale
SR859-12	SR859-112	Lead	5.1 J	9.5	8.4, 4.2	4.4	None	Total diff. < 2x LOQ
SR859-12	SR859-112	Zinc	29.2	37.6	8.4, 4.2	8.4	None	Total diff. < 2x LOQ

Corrective Action: No "J" qualifiers were applied since the total differences were within control limits.

- It is noted during the 6010C analysis the following analytes exceeded recovery limits in the MS/MSD samples (parent sample SR859-10).

MS/MSD Spike Results Job Number/ Spike Analytes	MS %Rec	MSD %Rec	QC Limits (%) (DOD QSM Limits)	RPD	Flag Applied	Rationale
Accutest Job #FA23189: Parent sample SR859-10						
Antimony	***31.9***	***36.5***	80-120 (80-120)	26.6	UJ	MS/MSD %Rec outside DOD QSM limits

Corrective Action: The recoveries were outside DOD QSM limits. "UJ" qualifiers were applied to indicate that the results (non-detect) should be considered estimated.

- An Inductively Coupled Plasma (ICP) Serial Dilution Test (1:5 dilution) is required to be run for each sample matrix that is analyzed for metals, and, according to the DOD QSM requirements, is applicable only for those analytes with concentrations greater than 50 times the LOQ. The following dilution tests indicated the percent difference (%D) between the original result and the five-times (5x) serial dilution result was greater than the ±10% QC limit:

Analyte	Initial Sample Result (µg/L)	Serial Dilution Result (µg/L)	% Difference	LOQ (µg/L)	Post-Digestion Spike Result	Flag Applied
Project #FA23189, SR859-10						
Copper	87.2	107	***22.4***	25	104.7	None
Lead	32.4	ND	***100.0***	5.0	99.7	None

The UFP QAPP requires that for the specific analytes in the parent sample associated with the dilution test that do not meet the acceptance criteria (i.e., five-fold dilution is greater than ±10% different), a "J" be applied to the results, and that they be considered estimated, to indicate a potential matrix effect. The method also allows the matrix effect to be confirmed by evaluating the results of a post-digestion spike. If the post-digestion spike addition recovery is within 75-125%, no further action is necessary, but "J" flags are still required.
Corrective Action: According to the DOD QSM, no flagging is required for serial dilution results unless the initial sample concentrations are greater than 50x the LOQ.

- The sample results included in SDG No. FA23189 are deemed 100% complete and acceptable for their intended use.

TABLE I

TABLE I
SUMMARY OF ANALYTES FAILING CRITERIA
SAMPLE DELIVERY GROUP NUMBER FA23189

QC Requirement & Criteria	Analytes Failing Criteria	Analytical Method	Result/Analysis Flags	Result Flag Applied to (Specific Analytes in)
MS/MSD %Rec less than lower control limit	Antimony	6010C	UJ	SR859-10

Sample Summary

FPM Remediations

HM-AZ PBR Holloman AFB; Alamogordo, NM
Project No: 1029-13-01-H-X0853

Job No: FA23189

Sample Number	Collected Date	Time By	Received	Matrix Code	Type	Client Sample ID
FA23189-1	03/26/15	11:35 TS	03/28/15	SO	Soil	SR859-1
FA23189-2	03/26/15	11:45 TS	03/28/15	SO	Soil	SR859-1A
FA23189-3	03/26/15	11:55 TS	03/28/15	SO	Soil	SR859-2
FA23189-4	03/26/15	12:05 TS	03/28/15	SO	Soil	SR859-2A
FA23189-5	03/26/15	12:20 TS	03/28/15	SO	Soil	SR859-3
FA23189-6	03/26/15	12:30 TS	03/28/15	SO	Soil	SR859-3A
FA23189-7	03/26/15	12:40 TS	03/28/15	SO	Soil	SR859-4
FA23189-8	03/26/15	12:50 TS	03/28/15	SO	Soil	SR859-4A
FA23189-9	03/26/15	13:20 TS	03/28/15	SO	Soil	SR859-5
FA23189-10	03/26/15	13:30 TS	03/28/15	SO	Soil	SR859-5A
FA23189-11	03/26/15	13:40 TS	03/28/15	SO	Soil	SR859-6
FA23189-12	03/26/15	13:50 TS	03/28/15	SO	Soil	SR859-6A
FA23189-13	03/26/15	14:05 TS	03/28/15	SO	Soil	SR859-7

Soil samples reported on a dry weight basis unless otherwise indicated on result page.

Sample Summary
(continued)

FPM Remediations

Job No: FA23189

HM-AZ PBR Holloman AFB; Alamogordo, NM
Project No: 1029-13-01-H-X0853

Sample Number	Collected Date	Time By	Received	Matrix Code	Type	Client Sample ID
FA23189-14	03/26/15	14:10 TS	03/28/15	SO	Soil	SR859-107
FA23189-15	03/26/15	14:20 TS	03/28/15	SO	Soil	SR859-7A
FA23189-16	03/26/15	14:35 TS	03/28/15	SO	Soil	SR859-8
FA23189-17	03/26/15	14:45 TS	03/28/15	SO	Soil	SR859-8A
FA23189-18	03/26/15	15:00 TS	03/28/15	SO	Soil	SR859-9
FA23189-19	03/26/15	15:10 TS	03/28/15	SO	Soil	SR859-9A
FA23189-20	03/26/15	15:30 TS	03/28/15	SO	Soil	SR859-10
FA23189-20D	03/26/15	15:30 TS	03/28/15	SO	Soil Dup/MSD	SR859-10
FA23189-20S	03/26/15	15:30 TS	03/28/15	SO	Soil Matrix Spike	SR859-10
FA23189-21	03/26/15	15:40 TS	03/28/15	SO	Soil	SR859-10A
FA23189-22	03/26/15	15:55 TS	03/28/15	SO	Soil	SR859-11
FA23189-23	03/26/15	16:05 TS	03/28/15	SO	Soil	SR859-11A
FA23189-24	03/26/15	16:25 TS	03/28/15	SO	Soil	SR859-12

Soil samples reported on a dry weight basis unless otherwise indicated on result page.

Sample Summary
(continued)

FPM Remediations

Job No: FA23189

HM-AZ PBR Holloman AFB; Alamogordo, NM
Project No: 1029-13-01-H-X0853

Sample Number	Collected Date	Time By	Received	Matrix Code	Type	Client Sample ID
FA23189-25	03/26/15	16:30 TS	03/28/15	SO	Soil	SR859-112
FA23189-26	03/26/15	16:55 TS	03/28/15	SO	Soil	SR859-12A
FA23189-27	03/27/15	08:15 TS	03/28/15	SO	Soil	SR859-13
FA23189-28	03/27/15	08:25 TS	03/28/15	SO	Soil	SR859-13A
FA23189-29	03/27/15	08:30 TS	03/28/15	SO	Soil	SR859-14
FA23189-30	03/27/15	08:40 TS	03/28/15	SO	Soil	SR859-14A
FA23189-31	03/27/15	08:50 TS	03/28/15	SO	Soil	SR859-15
FA23189-32	03/27/15	09:00 TS	03/28/15	SO	Soil	SR859-15A
FA23189-33	03/27/15	09:15 TS	03/28/15	SO	Soil	SR859-16
FA23189-34	03/27/15	09:25 TS	03/28/15	SO	Soil	SR859-16A
FA23189-35	03/27/15	09:40 TS	03/28/15	SO	Soil	SR859-17
FA23189-36	03/27/15	09:50 TS	03/28/15	SO	Soil	SR859-17A
FA23189-37	03/27/15	10:05 TS	03/28/15	SO	Soil	SR859-18

Soil samples reported on a dry weight basis unless otherwise indicated on result page.

Sample Summary
(continued)

FPM Remediations

Job No: FA23189

HM-AZ PBR Holloman AFB; Alamogordo, NM
Project No: 1029-13-01-H-X0853

Sample Number	Collected Date	Time By	Received	Matrix Code	Type	Client Sample ID
FA23189-38	03/27/15	10:15 TS	03/28/15	SO	Soil	SR859-18A
FA23189-39	03/27/15	10:30 TS	03/28/15	SO	Soil	SR859-19
FA23189-40	03/27/15	10:45 TS	03/28/15	SO	Soil	SR859-19A
FA23189-41	03/27/15	11:00 TS	03/28/15	SO	Soil	SR859-20
FA23189-42	03/27/15	11:20 TS	03/28/15	SO	Soil	SR859-20A
FA23189-43	03/26/15	16:50 TS	03/28/15	AQ	Equipment Blank	SR859-EB1

Soil samples reported on a dry weight basis unless otherwise indicated on result page.

ACCUTEST LABORATORIES

Accutest Laboratories Southeast
Chain of Custody

4405 Vineland Road, Suite C-15 Orlando, Fl 32811
TEL. 407-425-6700 • FAX: 407-425-0707
www.accutest.com

Accutest JOB # FA23189 PAGE 2 OF 4

Accutest Quote # | SKIFF#

Client / Reporting Information

Company Name: FPM
Address: 584 Phoenix Dr
City: Rome State: NY Zip: 13441
Project Contact: P. Corbitmo
Phone#: 315 336 7731
Sampler(s) Name(s) (Printed): J Schossberger

Project Information

Project Name: Hollom AFB
Street:
City: State:
Project #:
Fax #:
Client Purchase Order #:

Analytical Information

Accutest Sample #	Field ID / Point of Collection	Date	Time	Sampled By	Matrix	Total # of Bottles	Other	Volume	HCl	MeOH	HNO3	NaOH/ZnAc	DI Water	NaOH	Metals	PAH	SPLP metals/PAH
13	SR859-7	3/26	1405	TS	SO	1		1							1	1	1
14	SR859-10T	3/26	1410	TS	SO	1		1							1	1	1
15	SR859-7a	3/26	1420	TS	SO	1		1							1	1	1
16	SR859-8	3/26	1435	TS	SO	1		1							1	1	1
17	SR859-8a	3/26	1445	TS	SO	1		1							1	1	1
18	SR859-9	3/26	1500	TS	SO	1		1							1	1	1
19	SR859-~~10~~9a	3/26	1510	TS	SO	1		1							1	1	1
( )	SR859-10	3/26	1520	TS	SO	1		1							1	1	1
(20)	SR859-10MS	3/26	1520	TS	SO	1		1							1	1	1
	SR859-10MSD	3/26	1520	TS	SO	1		1							1	1	1
21	SR859-10a	3/26	1540	TS	SO	1		1							1	1	1
22	SR859-11	3/26	1555	TS	SO	1		1							1	1	1

Matrix Codes: DW - Drinking Water; GW - Ground Water; WW - Water; SW - Surface Water; SO - Soil; SL - Sludge; OI - Oil; LIQ - Other Liquid; AIR - Air; SOL - Other Solid; WP - Wipe

LAB USE ONLY

TURNAROUND TIME (Business Days)

Approved By: / Rush Code

- [ ] 10 Days Standard
- [x] 7 Day RUSH
- [ ] 5 Day RUSH
- [ ] 3 Day EMERGENCY
- [ ] 2 Day EMERGENCY
- [ ] 1 Day EMERGENCY
- [ ] OTHER

Emergency or Rush T/A Data Available VIA Email or Lablink

Data Deliverable Information

- [ ] COMMERCIAL "A" (RESULTS ONLY)
- [ ] COMMERCIAL "B" (RESULTS PLUS QC)
- [ ] REDT1 (EPA LEVEL 3)
- [ ] FULT1 (EPA LEVEL 4)
- [ ] EDD'S

Comments / Remarks

HOLD "A" label samples
HOLD SPLP

Sample Custody must be documented below each time samples change possession, including courier delivery.

Relinquished by Sampler:	Date Time:	Received By:	Relinquished by:	Date Time:	Received By:
1	3/27 1530	2 FP	3 FP 03.28.15	11:00	4
Relinquished by: 5	Date Time:	Received By: 6	Relinquished by: 7	Date Time:	Received By: 8

Lab Use Only: Custody Seal In Place: Y N Temp Blank Provided: Y N Preserved where Applicable: Y N Total # of Coolers: Cooler Temperature (s) Celsius:

FA23189: Chain of Custody
Page 1 of 5

Accutest Laboratories Southeast
Chain of Custody

ACCUTEST LABORATORIES

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www.accutest.com

Accutest JOB # FA23189 PAGE 3 OF 4

Accutest Quote # | SKIFF#

Client / Reporting Information

Company Name: FAM
Address: 3241 Phoenix Dr
City: Rome State: NY Zip: 13441
Project Contact: Cordelia Ho Email:
Phone#: 315 336 7721
Sampler(s) Name(s) (Printed):

Project Information

Project Name: Hollomon AFB
Street:
City: State:
Project #:
Fax #:
Client Purchase Order #:

Analytical Information

Accutest Sample #	Field ID / Point of Collection	Date	Time	Sampled By	Matrix	Total # of Bottles	Other	Metals	PAH	SPLP metals/PAH
23	SR859-11a	3/26	1605	RS	SO	1		1	1	1
24	SR859-12	3/26	1625	RS	SO	1		1	1	1
25	SR859-112	3/26	1630	RS	SO	1		1	1	1
26	SR859-12a	3/26	1635	RS	SO	1		1	1	1
27	SR859-13	3/27	815	RS	SO	1		1	1	1
28	SR859-13a	3/27	825	RS	SO	1		1	1	1
29	SR859-14	3/27	830	RS	SO	1		1	1	1
30	SR859-14a	3/27	840	RS	SO	1		1	1	1
31	SR859-15	3/27	850	RS	SO	1		1	1	1
32	SR859-15a	3/27	900	RS	SO	1		1	1	1
33	SR859-16	3/27	915	RS	SO	1		1	1	1
34	SR859-16a	3/27	925	RS	SO	1		1	1	1

Matrix Codes: DW - Drinking Water; GW - Ground Water; WW - Water; SW - Surface Water; SO - Soil; SL - Sludge; OI - Oil; LIQ - Other Liquid; AIR - Air; SOL - Other Solid; WP - Wipe

LAB USE ONLY

TURNAROUND TIME (Business Days)

Approved By: / Rush Code

- [ ] 10 Days Standard
- [x] 7 Day RUSH
- [ ] 5 Day RUSH
- [ ] 3 Day EMERGENCY
- [ ] 2 Day EMERGENCY
- [ ] 1 Day EMERGENCY
- [ ] OTHER

Emergency or Rush T/A Data Available VIA Email or Lablink

Data Deliverable Information

- [ ] COMMERCIAL "A" (RESULTS ONLY)
- [ ] COMMERCIAL "B" (RESULTS PLUS QC)
- [ ] REDT1 (EPA LEVEL 3)
- [ ] FULT1 (EPA LEVEL 4)
- [ ] EDD'S

Comments / Remarks

Hold "A" samples
HOLD SPLP

Sample Custody must be documented below each time samples change possession, including courier delivery.

Relinquished by Sampler:	Date Time:	Received By:	Relinquished by:	Date Time:	Received By:
	3/27 1530	2 FP	3 FP 03-28-15	11:00	4
Relinquished by:	Date Time:	Received By:	Relinquished by:	Date Time:	Received By:
5		6	7		8

Lab Use Only: Custody Seal In Place: Y N Temp Blank Provided: Y N Preserved where Applicable: Y N Total # of Coolers: Cooler Temperature (s) Celsius:

Accutest Laboratories Southeast
Chain of Custody

ACCUTEST LABORATORIES

4405 Vineland Road, Suite C-15 Orlando, Fl 32811
TEL. 407-425-6700 • FAX: 407-425-0707
www.accutest.com

Accutest JOB # FA23189 PAGE 4 OF 4

Accutest Quote # | SKIFF#

Client / Reporting Information

Company Name: FPM
Address: 584 Phoenix Dr
City: Rome State: NV Zip:
Project Contact: Corrigan Email:
Phone#: 315 336 7721
Sampler(s) Name(s) (Printed):

Project Information

Project Name: Holloman AFB
Street:
City: State:
Project #:
Fax #:
Client Purchase Order #:

Analytical Information: Metals; PAH; SPLP metals (PAH)

Matrix Codes: DW - Drinking Water; GW - Ground Water; WW - Water; SW - Surface Water; SO - Soil; SL - Sludge; OI - Oil; LIQ - Other Liquid; AIR - Air; SOL - Other Solid; WP - Wipe

Accutest Sample #	Field ID / Point of Collection	Date	Time	Sampled By	Matrix	Total # of Bottles	Other	None	HCl	NaOH	HNO3	H2SO4	NaOH/ZnAc	DI Water	MeOH	Metals	PAH	SPLP metals (PAH)	Lab Use Only
35	SR859-17	3/27	940	TS	SO	1		1								1	1	1	
36	SR859-17a	3/27	950	TS	SO	1		1								1	1	1	
37	SR859-18	3/27	1005	TS	SO	1		1								1	1	1	
38	SR859-18a	3/27	1015	TS	SO	1		1								1	1	1	
39	SR859-19	3/27	1030	TS	SO	1		1								1	1	1	
40	SR859-19a	3/27	1045	TS	SO	1		1								1	1	1	
41	SR859-20	3/27	1100	TS	SO	1		1								1	1	1	
42	SR859-20a	3/27	1110	TS	SO	1		1								1	1	1	
43	SR859-EB1	3/26	1050	TS	GW	3		2	1							1	2		

TURNAROUND TIME (Business Days)

Approved By: / Rush Code

- ☐ 10 Days Standard
- ☒ 7 Day RUSH
- ☐ 5 Day RUSH
- ☐ 3 Day EMERGENCY
- ☐ 2 Day EMERGENCY
- ☐ 1 Day EMERGENCY
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Emergency or Rush T/A Data Available VIA Email or Labtrk

Data Deliverable Information

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- ☐ FULT1 (EPA LEVEL 4)
- ☐ EDD'S

Comments / Remarks

HOLD "A" samples
HOLD SPLP

Sample Custody must be documented below each time samples change possession, including courier delivery.

Relinquished by Sampler:	Date Time:	Received By:	Relinquished by:	Date Time:	Received By:
1	3/27 1530	2 TE	3 FF 03-28-15	1700	4
Relinquished by: 5	Date Time:	Received By: 6	Relinquished by: 7	Date Time:	Received By: 8

Lab Use Only: Custody Seal in Place: Y N Temp Blank Provided: Y N Preserved where Applicable: Y N Total # of Coolers: Cooler Temperature (s) Celsius:

ACCUTEST LABORATORIES SAMPLE RECEIPT CONFIRMATION

ACCUTEST'S JOB NUMBER: FA23189 CLIENT: FPM PROJECT: Hollman AFB

DATE/TIME RECEIVED: 03-28-15 11:00 (MM/DD/YY 24:00) NUMBER OF COOLERS RECEIVED: 4 3

METHOD OF DELIVERY: (FEDEX) UPS ACCUTEST COURIER DELIVERY OTHER:

AIRBILL NUMBERS: 8066 1758 1385

COOLER INFORMATION

- [ ] CUSTODY SEAL NOT PRESENT OR NOT INTACT
- [ ] CHAIN OF CUSTODY NOT RECEIVED (COC)
- [ ] ANALYSIS REQUESTED IS UNCLEAR OR MISSING
- [ ] SAMPLE DATES OR TIMES UNCLEAR OR MISSING
- [ ] TEMPERATURE CRITERIA NOT MET

TRIP BLANK INFORMATION

- [ ] TRIP BLANK PROVIDED
- [x] TRIP BLANK NOT PROVIDED
- [x] TRIP BLANK NOT ON COC
- [ ] TRIP BLANK INTACT
- [ ] TRIP BLANK NOT INTACT
- [ ] RECEIVED WATER TRIP BLANK
- [ ] RECEIVED SOIL TRIP BLANK

MISC. INFORMATION

NUMBER OF ENCORES ? 25-GRAM_____ 5-GRAM_____

NUMBER OF 5035 FIELD KITS ? _____

NUMBER OF LAB FILTERED METALS ? _____

TEMPERATURE INFORMATION

- [ ] IR THERM ID 1 CORR. FACTOR -0.2
- [ ] OBSERVED TEMPS: 24 22 26
- [ ] CORRECTED TEMPS: 22, 20 24

SAMPLE INFORMATION

- [ ] INCORRECT NUMBER OF CONTAINERS USED
- [ ] SAMPLE RECEIVED IMPROPERLY PRESERVED
- [ ] INSUFFICIENT VOLUME FOR ANALYSIS
- [ ] DATES/TIMES ON COC DO NOT MATCH SAMPLE LABEL
- [ ] ID'S ON COC DO NOT MATCH LABEL
- [ ] VOC VIALS HAVE HEADSPACE (MACRO BUBBLES)
- [ ] BOTTLES RECEIVED BUT ANALYSIS NOT REQUESTED
- [ ] NO BOTTLES RECEIVED FOR ANALYSIS REQUESTED
- [ ] UNCLEAR FILTERING OR COMPOSITING INSTRUCTIONS
- [ ] SAMPLE CONTAINER(S) RECEIVED BROKEN
- [ ] 5035 FIELD KITS NOT RECEIVED WITHIN 48 HOURS
- [ ] BULK VOA SOIL JARS NOT RECEIVED WITHIN 48 HOURS
- [ ] % SOLIDS JAR NOT RECEIVED
- [ ] RESIDUAL CHLORINE PRESENT LOT#_____

(APPLICABLE TO EPA 600 SERIES OR NORTH CAROLINA ORGANICS)

pH PAPER LOT#s WIDE RANGE A036122 NARROW RANGE (HC421754) OTHER (specify) 405-230010

SUMMARY OF COMMENTS: 250 ml (x270) Sample 43

TECHNICIAN SIGNATURE/DATE 03-28-15 REVIEWER SIGNATURE/DATE 03/28/15

NF 10/14 receipt confirmation 102914.xls

SAMPLE DELIVERY GROUP CASE NARRATIVE

Client: FPM Remediations **Job No:** FA23189

Site: HM-AZ PBR Holloman AFB; Alamogordo, NM **Report Date:** 4/8/2015 10:07:18 PM

43 Sample(s) were collected on/ between 03/26/2015 and 03/27/2015 and were received at Accutest SE on 03/28/2015 properly preserved, at 2 Deg. C and intact. These Samples received an Accutest job number of FA23189. A listing of the Laboratory Sample ID, Client Sample ID and dates of collection are presented in the Results Summary Section of this report.

Except as noted below, all method specified calibrations and quality control performance criteria were met for this job. For more information, please refer to QC summary pages.

Extractables by GCMS By Method SW846 8270D

Matrix: SO **Batch ID:** OP55512

All samples were extracted within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) FA23106-3MS, FA23106-3MSD were used as the QC samples indicated.

Matrix: SO **Batch ID:** OP55531

All samples were extracted within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) FA23189-20MS, FA23189-20MSD were used as the QC samples indicated.

Extractables by GCMS By Method SW846 8270D BY SIM

Matrix: AQ **Batch ID:** OP55540

All samples were extracted within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) FA23189-43MS, FA23189-43MSD were used as the QC samples indicated.

Metals By Method SW846 6010C

Matrix: AQ **Batch ID:** MP28731

All samples were digested within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) FA23021-5DUP, FA23021-5MS, FA23021-5MSD, FA23021-5PS, FA23021-5SDL were used as the QC samples for metals.

RPD(s) for Serial Dilution for Arsenic, Zinc are outside control limits for sample MP28731-SD1. Percent difference acceptable due to low initial sample concentration (< 50 times IDL).

Matrix: SO **Batch ID:** MP28734

All samples were digested within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) FA23189-20DUP, FA23189-20MS, FA23189-20MSD, FA23189-20PS, FA23189-20SDL were used as the QC samples for metals.

Matrix Spike/ Matrix Spike Duplicate Recovery(s) for Antimony are outside control limits. Spike recovery indicates possible matrix interference and/or sample non-homogeneity.

RPD(s) for MSD for Antimony are outside control limits for sample MP28734-S2. High RPD due to possible sample non-homogeneity.

Metals By Method SW846 6010C

Matrix: SO **Batch ID:** MP28734

MP28734-SD1 for Copper: Serial dilution indicates possible matrix interference.

RPD(s) for Serial Dilution for Lead, Copper are outside control limits for sample MP28734-SD1. Percent difference acceptable due to low initial sample concentration (< 50 times IDL).

FA23189-9 for Lead: Elevated reporting limit(s) due to matrix interference.
FA23189-20 for Antimony: Elevated reporting limit(s) due to matrix interference.
FA23189-9 for Zinc: Elevated reporting limit(s) due to matrix interference.
FA23189-9 for Antimony: Elevated reporting limit(s) due to matrix interference.
FA23189-7 for Zinc: Elevated reporting limit(s) due to matrix interference.
FA23189-7 for Lead: Elevated reporting limit(s) due to matrix interference.
FA23189-5 for Zinc: Elevated reporting limit(s) due to matrix interference.
FA23189-5 for Antimony: Elevated reporting limit(s) due to matrix interference.
FA23189-3 for Zinc: Elevated reporting limit(s) due to matrix interference.
FA23189-3 for Lead: Elevated reporting limit(s) due to matrix interference.
FA23189-3 for Antimony: Elevated reporting limit(s) due to matrix interference.
FA23189-1 for Zinc: Elevated reporting limit(s) due to matrix interference.
FA23189-1 for Lead: Elevated reporting limit(s) due to matrix interference.
FA23189-1 for Antimony: Elevated reporting limit(s) due to matrix interference.
FA23189-20 for Lead: Elevated reporting limit(s) due to matrix interference.
FA23189-11 for Antimony: Elevated reporting limit(s) due to matrix interference.
FA23189-7 for Antimony: Elevated reporting limit(s) due to matrix interference.
FA23189-20 for Zinc: Elevated reporting limit(s) due to matrix interference.
FA23189-27 for Lead: Elevated reporting limit(s) due to matrix interference.
FA23189-25 for Lead: Elevated reporting limit(s) due to matrix interference.
FA23189-27 for Antimony: Elevated reporting limit(s) due to matrix interference.
FA23189-29 for Antimony: Elevated reporting limit(s) due to matrix interference.
FA23189-29 for Lead: Elevated reporting limit(s) due to matrix interference.
FA23189-29 for Zinc: Elevated reporting limit(s) due to matrix interference.
FA23189-31 for Antimony: Elevated reporting limit(s) due to matrix interference.
FA23189-31 for Lead: Elevated reporting limit(s) due to matrix interference.
FA23189-31 for Zinc: Elevated reporting limit(s) due to matrix interference.
FA23189-33 for Lead: Elevated reporting limit(s) due to matrix interference.
FA23189-11 for Lead: Elevated reporting limit(s) due to matrix interference.
FA23189-25 for Antimony: Elevated reporting limit(s) due to matrix interference.
FA23189-5 for Lead: Elevated reporting limit(s) due to matrix interference.
FA23189-33 for Zinc: Elevated reporting limit(s) due to matrix interference.
FA23189-35 for Antimony: Elevated reporting limit(s) due to matrix interference.
FA23189-35 for Lead: Elevated reporting limit(s) due to matrix interference.
FA23189-35 for Zinc: Elevated reporting limit(s) due to matrix interference.
FA23189-37 for Antimony: Elevated reporting limit(s) due to matrix interference.
FA23189-37 for Lead: Elevated reporting limit(s) due to matrix interference.
FA23189-37 for Zinc: Elevated reporting limit(s) due to matrix interference.
FA23189-33 for Antimony: Elevated reporting limit(s) due to matrix interference.
FA23189-16 for Lead: Elevated reporting limit(s) due to matrix interference.
FA23189-11 for Zinc: Elevated reporting limit(s) due to matrix interference.
FA23189-13 for Antimony: Elevated reporting limit(s) due to matrix interference.
FA23189-13 for Lead: Elevated reporting limit(s) due to matrix interference.
FA23189-13 for Zinc: Elevated reporting limit(s) due to matrix interference.
FA23189-14 for Antimony: Elevated reporting limit(s) due to matrix interference.
FA23189-27 for Zinc: Elevated reporting limit(s) due to matrix interference.
FA23189-14 for Lead: Elevated reporting limit(s) due to matrix interference.
FA23189-25 for Zinc: Elevated reporting limit(s) due to matrix interference.
FA23189-16 for Antimony: Elevated reporting limit(s) due to matrix interference.

Metals By Method SW846 6010C

Matrix: SO **Batch ID:** MP28734

FA23189-24 for Zinc: Elevated reporting limit(s) due to matrix interference.
FA23189-16 for Zinc: Elevated reporting limit(s) due to matrix interference.
FA23189-18 for Antimony: Elevated reporting limit(s) due to matrix interference.
FA23189-18 for Lead: Elevated reporting limit(s) due to matrix interference.
FA23189-18 for Zinc: Elevated reporting limit(s) due to matrix interference.
FA23189-22 for Antimony: Elevated reporting limit(s) due to matrix interference.
FA23189-22 for Lead: Elevated reporting limit(s) due to matrix interference.
FA23189-22 for Zinc: Elevated reporting limit(s) due to matrix interference.
FA23189-24 for Antimony: Elevated reporting limit(s) due to matrix interference.
FA23189-24 for Lead: Elevated reporting limit(s) due to matrix interference.
FA23189-14 for Zinc: Elevated reporting limit(s) due to matrix interference.

Matrix: SO **Batch ID:** MP28752

All samples were digested within the recommended method holding time.
All samples were analyzed within the recommended method holding time.
All method blanks for this batch meet method specific criteria.
Sample(s) FA23258-5DUP, FA23258-5MS, FA23258-5MSD, FA23258-5PS, FA23258-5SDL were used as the QC samples for metals.
Matrix Spike/ Matrix Spike Duplicate Recovery(s) for Antimony are outside control limits. Spike recovery indicates possible matrix interference and/or sample non-homogeneity.
RPD(s) for Duplicate for Arsenic are outside control limits for sample MP28752-D1. RPD acceptable due to low duplicate and sample concentrations.
RPD(s) for Serial Dilution for Arsenic, Lead are outside control limits for sample MP28752-SD1. Percent difference acceptable due to low initial sample concentration (< 50 times IDL).
FA23189-39 for Copper: Sample dilution required due to difficult matrix.
FA23189-39 for Lead: Elevated reporting limit(s) due to matrix interference.
FA23189-41 for Copper: Sample dilution required due to difficult matrix.
FA23189-41 for Antimony: Sample dilution required due to difficult matrix.
FA23189-39 for Arsenic: Sample dilution required due to difficult matrix.
FA23189-39 for Antimony: Sample dilution required due to difficult matrix.
FA23189-41 for Lead: Elevated reporting limit(s) due to matrix interference.
FA23189-41 for Arsenic: Sample dilution required due to difficult matrix.

Wet Chemistry By Method SM19 2540G

Matrix: SO **Batch ID:** GN65714

Sample(s) FA23046-5DUP were used as the QC samples for Solids, Percent.

Matrix: SO **Batch ID:** GN65719

Sample(s) FA23171-3DUP were used as the QC samples for Solids, Percent.

Matrix: SO **Batch ID:** GN65757

Sample(s) FA23189-2DUP, FA23189-4DUP were used as the QC samples for Solids, Percent.

Matrix: SO **Batch ID:** GN65758

Sample(s) FA23189-14DUP, FA23189-15DUP were used as the QC samples for Solids, Percent.

Matrix: SO **Batch ID:** GN65759

Sample(s) FA23189-34DUP were used as the QC samples for Solids, Percent.

Accutest Laboratories Southeast (ALSE) certifies that this report meets the project requirements for analytical data produced for the samples as received at ALSE and as stated on the COC. ALSE certifies that the data meets the Data Quality Objectives for precision, accuracy and completeness as specified in the ALSE Quality Manual except as noted above. This report is to be used in its entirety. ALSE is not responsible for any assumptions of data quality if partial data packages are used.

Narrative prepared by:

Kim Benham, Client Services (signature on file)

Date: April 8, 2015

Raw Data: X039293.D

Accutest Laboratories

Report of Analysis

Client Sample ID:	SR859-1		
Lab Sample ID:	FA23189-1	Date Sampled:	03/26/15
Matrix:	SO - Soil	Date Received:	03/28/15
Method:	SW846 8270D SW846 3550C	Percent Solids:	86.3
Project:	HM-AZ PBR Holloman AFB; Alamogordo, NM		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	X039293.D	1	03/31/15	MV	03/30/15	OP55512	SX1827
Run #2							

	Initial Weight	Final Volume
Run #1	30.4 g	1.0 ml
Run #2		

BN PAH List

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
83-32-9	Acenaphthene	38 U	190	38	19	ug/kg	
208-96-8	Acenaphthylene	38 U	190	38	19	ug/kg	
120-12-7	Anthracene	38 U	190	38	19	ug/kg	
56-55-3	Benzo(a)anthracene	38 U	190	38	19	ug/kg	
50-32-8	Benzo(a)pyrene	38 U	190	38	19	ug/kg	
205-99-2	Benzo(b)fluoranthene	38 U	190	38	19	ug/kg	
191-24-2	Benzo(g,h,i)perylene	38 U	190	38	19	ug/kg	
207-08-9	Benzo(k)fluoranthene	38 U	190	38	19	ug/kg	
218-01-9	Chrysene	38 U	190	38	19	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	38 U	190	38	19	ug/kg	
206-44-0	Fluoranthene	38 U	190	38	19	ug/kg	
86-73-7	Fluorene	38 U	190	38	19	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	38 U	190	38	19	ug/kg	
90-12-0	1-Methylnaphthalene	38 U	190	38	19	ug/kg	
91-57-6	2-Methylnaphthalene	38 U	190	38	19	ug/kg	
91-20-3	Naphthalene	38 U	190	38	19	ug/kg	
85-01-8	Phenanthrene	38 U	190	38	19	ug/kg	
129-00-0	Pyrene	38 U	190	38	19	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	70%		40-105%
321-60-8	2-Fluorobiphenyl	72%		43-107%
1718-51-0	Terphenyl-d14	92%		45-119%

U = Not detected LOD = Limit of Detection J = Indicates an estimated value
LOQ = Limit of Quantitation DL = Detection Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	SR859-1		
Lab Sample ID:	FA23189-1	Date Sampled:	03/26/15
Matrix:	SO - Soil	Date Received:	03/28/15
		Percent Solids:	86.3
Project:	HM-AZ PBR Holloman AFB; Alamogordo, NM		

Metals Analysis

Analyte	Result	LOQ	LOD	DL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Antimony [a]	2.6 U	10	2.6	0.67	mg/kg	10	03/31/15	04/02/15	LM	SW846 6010C [2]	SW846 3050B [3]
Arsenic	1.8	0.52	0.26	0.10	mg/kg	1	03/31/15	04/01/15	LM	SW846 6010C [1]	SW846 3050B [3]
Copper	2.2	1.3	0.10	0.052	mg/kg	1	03/31/15	04/01/15	LM	SW846 6010C [1]	SW846 3050B [3]
Lead [a]	19.4	10	2.1	0.52	mg/kg	10	03/31/15	04/02/15	LM	SW846 6010C [2]	SW846 3050B [3]
Zinc [a]	8.4 J	10	2.6	1.6	mg/kg	10	03/31/15	04/02/15	LM	SW846 6010C [2]	SW846 3050B [3]

(1) Instrument QC Batch: MA12310
(2) Instrument QC Batch: MA12315
(3) Prep QC Batch: MP28734

(a) Elevated reporting limit(s) due to matrix interference.

LOQ = Limit of Quantitation
LOD = Limit of Detection
DL = Detection Limit
U = Indicates a result < LOD
J = Indicates a result >= DL (MDL) but < LOQ

Accutest Laboratories

Report of Analysis

Client Sample ID:	SR859-1A		
Lab Sample ID:	FA23189-2	Date Sampled:	03/26/15
Matrix:	SO - Soil	Date Received:	03/28/15
		Percent Solids:	76.8
Project:	HM-AZ PBR Holloman AFB; Alamogordo, NM		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Solids, Percent	76.8		%	1	04/01/15 14:49	LE	SM19 2540G

RL = Reporting Limit

Raw Data: X039294.D

Accutest Laboratories

Report of Analysis

Client Sample ID:	SR859-2		
Lab Sample ID:	FA23189-3	Date Sampled:	03/26/15
Matrix:	SO - Soil	Date Received:	03/28/15
Method:	SW846 8270D SW846 3550C	Percent Solids:	85.7
Project:	HM-AZ PBR Holloman AFB; Alamogordo, NM		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	X039294.D	1	03/31/15	MV	03/30/15	OP55512	SX1827
Run #2							

	Initial Weight	Final Volume
Run #1	29.9 g	1.0 ml
Run #2		

BN PAH List

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
83-32-9	Acenaphthene	39 U	200	39	20	ug/kg	
208-96-8	Acenaphthylene	39 U	200	39	20	ug/kg	
120-12-7	Anthracene	39 U	200	39	20	ug/kg	
56-55-3	Benzo(a)anthracene	39 U	200	39	20	ug/kg	
50-32-8	Benzo(a)pyrene	39 U	200	39	20	ug/kg	
205-99-2	Benzo(b)fluoranthene	39 U	200	39	20	ug/kg	
191-24-2	Benzo(g,h,i)perylene	39 U	200	39	20	ug/kg	
207-08-9	Benzo(k)fluoranthene	39 U	200	39	20	ug/kg	
218-01-9	Chrysene	39 U	200	39	20	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	39 U	200	39	20	ug/kg	
206-44-0	Fluoranthene	39 U	200	39	20	ug/kg	
86-73-7	Fluorene	39 U	200	39	20	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	39 U	200	39	20	ug/kg	
90-12-0	1-Methylnaphthalene	39 U	200	39	20	ug/kg	
91-57-6	2-Methylnaphthalene	39 U	200	39	20	ug/kg	
91-20-3	Naphthalene	39 U	200	39	20	ug/kg	
85-01-8	Phenanthrene	39 U	200	39	20	ug/kg	
129-00-0	Pyrene	39 U	200	39	20	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	76%		40-105%
321-60-8	2-Fluorobiphenyl	80%		43-107%
1718-51-0	Terphenyl-d14	101%		45-119%

U = Not detected LOD = Limit of Detection J = Indicates an estimated value
LOQ = Limit of Quantitation DL = Detection Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	SR859-2		
Lab Sample ID:	FA23189-3	Date Sampled:	03/26/15
Matrix:	SO - Soil	Date Received:	03/28/15
		Percent Solids:	85.7
Project:	HM-AZ PBR Holloman AFB; Alamogordo, NM		

Metals Analysis

Analyte	Result	LOQ	LOD	DL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Antimony [a]	2.6 U	10	2.6	0.68	mg/kg	10	03/31/15	04/02/15	LM	SW846 6010C [2]	SW846 3050B [3]
Arsenic	1.4	0.52	0.26	0.10	mg/kg	1	03/31/15	04/01/15	LM	SW846 6010C [1]	SW846 3050B [3]
Copper	3.2	1.3	0.10	0.052	mg/kg	1	03/31/15	04/01/15	LM	SW846 6010C [1]	SW846 3050B [3]
Lead [a]	33.1	10	2.1	0.52	mg/kg	10	03/31/15	04/02/15	LM	SW846 6010C [2]	SW846 3050B [3]
Zinc [a]	9.9 J	10	2.6	1.6	mg/kg	10	03/31/15	04/02/15	LM	SW846 6010C [2]	SW846 3050B [3]

(1) Instrument QC Batch: MA12310
(2) Instrument QC Batch: MA12315
(3) Prep QC Batch: MP28734

(a) Elevated reporting limit(s) due to matrix interference.

LOQ = Limit of Quantitation
LOD = Limit of Detection
DL = Detection Limit
U = Indicates a result < LOD
J = Indicates a result >= DL (MDL) but < LOQ

Accutest Laboratories

Report of Analysis

Client Sample ID:	SR859-2A		
Lab Sample ID:	FA23189-4	Date Sampled:	03/26/15
Matrix:	SO - Soil	Date Received:	03/28/15
		Percent Solids:	77.7
Project:	HM-AZ PBR Holloman AFB; Alamogordo, NM		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Solids, Percent	77.7		%	1	04/01/15 14:49	LE	SM19 2540G

RL = Reporting Limit

Raw Data: X039295.D

Accutest Laboratories

Report of Analysis

Client Sample ID:	SR859-3		
Lab Sample ID:	FA23189-5	Date Sampled:	03/26/15
Matrix:	SO - Soil	Date Received:	03/28/15
Method:	SW846 8270D SW846 3550C	Percent Solids:	85.8
Project:	HM-AZ PBR Holloman AFB; Alamogordo, NM		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	X039295.D	1	03/31/15	MV	03/30/15	OP55512	SX1827
Run #2							

	Initial Weight	Final Volume
Run #1	30.3 g	1.0 ml
Run #2		

BN PAH List

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
83-32-9	Acenaphthene	38 U	190	38	19	ug/kg	
208-96-8	Acenaphthylene	38 U	190	38	19	ug/kg	
120-12-7	Anthracene	38 U	190	38	19	ug/kg	
56-55-3	Benzo(a)anthracene	38 U	190	38	19	ug/kg	
50-32-8	Benzo(a)pyrene	38 U	190	38	19	ug/kg	
205-99-2	Benzo(b)fluoranthene	38 U	190	38	19	ug/kg	
191-24-2	Benzo(g,h,i)perylene	38 U	190	38	19	ug/kg	
207-08-9	Benzo(k)fluoranthene	38 U	190	38	19	ug/kg	
218-01-9	Chrysene	38 U	190	38	19	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	38 U	190	38	19	ug/kg	
206-44-0	Fluoranthene	38 U	190	38	19	ug/kg	
86-73-7	Fluorene	38 U	190	38	19	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	38 U	190	38	19	ug/kg	
90-12-0	1-Methylnaphthalene	38 U	190	38	19	ug/kg	
91-57-6	2-Methylnaphthalene	38 U	190	38	19	ug/kg	
91-20-3	Naphthalene	38 U	190	38	19	ug/kg	
85-01-8	Phenanthrene	38 U	190	38	19	ug/kg	
129-00-0	Pyrene	38 U	190	38	19	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	81%		40-105%
321-60-8	2-Fluorobiphenyl	84%		43-107%
1718-51-0	Terphenyl-d14	108%		45-119%

U = Not detected LOD = Limit of Detection
LOQ = Limit of Quantitation DL = Detection Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	SR859-3		
Lab Sample ID:	FA23189-5	Date Sampled:	03/26/15
Matrix:	SO - Soil	Date Received:	03/28/15
		Percent Solids:	85.8
Project:	HM-AZ PBR Holloman AFB; Alamogordo, NM		

Metals Analysis

Analyte	Result	LOQ	LOD	DL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Antimony [a]	2.4 U	9.7	2.4	0.63	mg/kg	10	03/31/15	04/02/15	LM	SW846 6010C [2]	SW846 3050B [3]
Arsenic	2.5	0.49	0.24	0.097	mg/kg	1	03/31/15	04/01/15	LM	SW846 6010C [1]	SW846 3050B [3]
Copper	5.1	1.2	0.097	0.049	mg/kg	1	03/31/15	04/01/15	LM	SW846 6010C [1]	SW846 3050B [3]
Lead [a]	0.68 J	9.7	1.9	0.49	mg/kg	10	03/31/15	04/02/15	LM	SW846 6010C [2]	SW846 3050B [3]
Zinc [a]	13.2	9.7	2.4	1.5	mg/kg	10	03/31/15	04/02/15	LM	SW846 6010C [2]	SW846 3050B [3]

(1) Instrument QC Batch: MA12310
(2) Instrument QC Batch: MA12315
(3) Prep QC Batch: MP28734

(a) Elevated reporting limit(s) due to matrix interference.

LOQ = Limit of Quantitation
LOD = Limit of Detection
DL = Detection Limit
U = Indicates a result < LOD
J = Indicates a result >= DL (MDL) but < LOQ

Accutest Laboratories

Report of Analysis

Client Sample ID:	SR859-3A		
Lab Sample ID:	FA23189-6	Date Sampled:	03/26/15
Matrix:	SO - Soil	Date Received:	03/28/15
		Percent Solids:	81.1
Project:	HM-AZ PBR Holloman AFB; Alamogordo, NM		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Solids, Percent	81.1		%	1	04/01/15 14:49	LE	SM19 2540G

RL = Reporting Limit

Raw Data: X039296.D

Accutest Laboratories

Report of Analysis

Client Sample ID:	SR859-4		
Lab Sample ID:	FA23189-7	Date Sampled:	03/26/15
Matrix:	SO - Soil	Date Received:	03/28/15
Method:	SW846 8270D SW846 3550C	Percent Solids:	77.0
Project:	HM-AZ PBR Holloman AFB; Alamogordo, NM		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	X039296.D	1	03/31/15	MV	03/30/15	OP55512	SX1827
Run #2							

	Initial Weight	Final Volume
Run #1	30.3 g	1.0 ml
Run #2		

BN PAH List

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
83-32-9	Acenaphthene	43 U	210	43	21	ug/kg	
208-96-8	Acenaphthylene	43 U	210	43	21	ug/kg	
120-12-7	Anthracene	43 U	210	43	21	ug/kg	
56-55-3	Benzo(a)anthracene	43 U	210	43	21	ug/kg	
50-32-8	Benzo(a)pyrene	43 U	210	43	21	ug/kg	
205-99-2	Benzo(b)fluoranthene	43 U	210	43	21	ug/kg	
191-24-2	Benzo(g,h,i)perylene	43 U	210	43	21	ug/kg	
207-08-9	Benzo(k)fluoranthene	43 U	210	43	21	ug/kg	
218-01-9	Chrysene	43 U	210	43	21	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	43 U	210	43	21	ug/kg	
206-44-0	Fluoranthene	43 U	210	43	21	ug/kg	
86-73-7	Fluorene	43 U	210	43	21	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	43 U	210	43	21	ug/kg	
90-12-0	1-Methylnaphthalene	43 U	210	43	21	ug/kg	
91-57-6	2-Methylnaphthalene	43 U	210	43	21	ug/kg	
91-20-3	Naphthalene	43 U	210	43	21	ug/kg	
85-01-8	Phenanthrene	43 U	210	43	21	ug/kg	
129-00-0	Pyrene	43 U	210	43	21	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	82%		40-105%
321-60-8	2-Fluorobiphenyl	82%		43-107%
1718-51-0	Terphenyl-d14	108%		45-119%

U = Not detected LOD = Limit of Detection J = Indicates an estimated value
LOQ = Limit of Quantitation DL = Detection Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	SR859-4		
Lab Sample ID:	FA23189-7	Date Sampled:	03/26/15
Matrix:	SO - Soil	Date Received:	03/28/15
		Percent Solids:	77.0
Project:	HM-AZ PBR Holloman AFB; Alamogordo, NM		

Metals Analysis

Analyte	Result	LOQ	LOD	DL	Units	DF	Prep	Analyzed By	Method	Prep Method
Antimony [a]	2.6 U	10	2.6	0.68	mg/kg	10	03/31/15	04/02/15 LM	SW846 6010C [2]	SW846 3050B [3]
Arsenic	3.9	0.52	0.26	0.10	mg/kg	1	03/31/15	04/01/15 LM	SW846 6010C [1]	SW846 3050B [3]
Copper	10.3	1.3	0.10	0.052	mg/kg	1	03/31/15	04/01/15 LM	SW846 6010C [1]	SW846 3050B [3]
Lead [a]	4.5 J	10	2.1	0.52	mg/kg	10	03/31/15	04/02/15 LM	SW846 6010C [2]	SW846 3050B [3]
Zinc [a]	32.7	10	2.6	1.6	mg/kg	10	03/31/15	04/02/15 LM	SW846 6010C [2]	SW846 3050B [3]

(1) Instrument QC Batch: MA12310
(2) Instrument QC Batch: MA12315
(3) Prep QC Batch: MP28734

(a) Elevated reporting limit(s) due to matrix interference.

LOQ = Limit of Quantitation
LOD = Limit of Detection
DL = Detection Limit
U = Indicates a result < LOD
J = Indicates a result >= DL (MDL) but < LOQ

Accutest Laboratories

Report of Analysis

Client Sample ID:	SR859-4A		
Lab Sample ID:	FA23189-8	Date Sampled:	03/26/15
Matrix:	SO - Soil	Date Received:	03/28/15
		Percent Solids:	84.4
Project:	HM-AZ PBR Holloman AFB; Alamogordo, NM		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Solids, Percent	84.4		%	1	04/01/15 14:49	LE	SM19 2540G

RL = Reporting Limit

Raw Data: X039297.D

Accutest Laboratories

Report of Analysis

Client Sample ID:	SR859-5		
Lab Sample ID:	FA23189-9	Date Sampled:	03/26/15
Matrix:	SO - Soil	Date Received:	03/28/15
Method:	SW846 8270D SW846 3550C	Percent Solids:	89.3
Project:	HM-AZ PBR Holloman AFB; Alamogordo, NM		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	X039297.D	1	04/01/15	MV	03/30/15	OP55512	SX1827
Run #2							

	Initial Weight	Final Volume
Run #1	29.9 g	1.0 ml
Run #2		

BN PAH List

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
83-32-9	Acenaphthene	37 U	190	37	19	ug/kg	
208-96-8	Acenaphthylene	37 U	190	37	19	ug/kg	
120-12-7	Anthracene	37 U	190	37	19	ug/kg	
56-55-3	Benzo(a)anthracene	37 U	190	37	19	ug/kg	
50-32-8	Benzo(a)pyrene	37 U	190	37	19	ug/kg	
205-99-2	Benzo(b)fluoranthene	37 U	190	37	19	ug/kg	
191-24-2	Benzo(g,h,i)perylene	37 U	190	37	19	ug/kg	
207-08-9	Benzo(k)fluoranthene	37 U	190	37	19	ug/kg	
218-01-9	Chrysene	37 U	190	37	19	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	37 U	190	37	19	ug/kg	
206-44-0	Fluoranthene	37 U	190	37	19	ug/kg	
86-73-7	Fluorene	37 U	190	37	19	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	37 U	190	37	19	ug/kg	
90-12-0	1-Methylnaphthalene	37 U	190	37	19	ug/kg	
91-57-6	2-Methylnaphthalene	37 U	190	37	19	ug/kg	
91-20-3	Naphthalene	37 U	190	37	19	ug/kg	
85-01-8	Phenanthrene	37 U	190	37	19	ug/kg	
129-00-0	Pyrene	37 U	190	37	19	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	82%		40-105%
321-60-8	2-Fluorobiphenyl	83%		43-107%
1718-51-0	Terphenyl-d14	103%		45-119%

U = Not detected LOD = Limit of Detection J = Indicates an estimated value
LOQ = Limit of Quantitation DL = Detection Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	SR859-5		
Lab Sample ID:	FA23189-9	Date Sampled:	03/26/15
Matrix:	SO - Soil	Date Received:	03/28/15
		Percent Solids:	89.3
Project:	HM-AZ PBR Holloman AFB; Alamogordo, NM		

Metals Analysis

Analyte	Result	LOQ	LOD	DL	Units	DF	Prep	Analyzed By	Method	Prep Method
Antimony [a]	2.7 U	11	2.7	0.69	mg/kg	10	03/31/15	04/02/15 LM	SW846 6010C [2]	SW846 3050B [3]
Arsenic	2.5	0.53	0.27	0.11	mg/kg	1	03/31/15	04/01/15 LM	SW846 6010C [1]	SW846 3050B [3]
Copper	5.7	1.3	0.11	0.053	mg/kg	1	03/31/15	04/01/15 LM	SW846 6010C [1]	SW846 3050B [3]
Lead [a]	3.3 J	11	2.1	0.53	mg/kg	10	03/31/15	04/02/15 LM	SW846 6010C [2]	SW846 3050B [3]
Zinc [a]	15.7	11	2.7	1.6	mg/kg	10	03/31/15	04/02/15 LM	SW846 6010C [2]	SW846 3050B [3]

(1) Instrument QC Batch: MA12310
(2) Instrument QC Batch: MA12315
(3) Prep QC Batch: MP28734

(a) Elevated reporting limit(s) due to matrix interference.

LOQ = Limit of Quantitation
LOD = Limit of Detection
DL = Detection Limit

U = Indicates a result < LOD
J = Indicates a result >= DL (MDL) but < LOQ

Accutest Laboratories

Report of Analysis

Client Sample ID:	SR859-5A		
Lab Sample ID:	FA23189-10	Date Sampled:	03/26/15
Matrix:	SO - Soil	Date Received:	03/28/15
		Percent Solids:	83.6
Project:	HM-AZ PBR Holloman AFB; Alamogordo, NM		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Solids, Percent	83.6		%	1	04/01/15 14:49	LE	SM19 2540G

RL = Reporting Limit

Raw Data: X039298.D

Accutest Laboratories

Report of Analysis

Client Sample ID:	SR859-6		
Lab Sample ID:	FA23189-11	Date Sampled:	03/26/15
Matrix:	SO - Soil	Date Received:	03/28/15
Method:	SW846 8270D SW846 3550C	Percent Solids:	83.9
Project:	HM-AZ PBR Holloman AFB; Alamogordo, NM		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	X039298.D	1	04/01/15	MV	03/30/15	OP55512	SX1827
Run #2							

	Initial Weight	Final Volume
Run #1	30.5 g	1.0 ml
Run #2		

BN PAH List

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
83-32-9	Acenaphthene	39 U	200	39	20	ug/kg	
208-96-8	Acenaphthylene	39 U	200	39	20	ug/kg	
120-12-7	Anthracene	39 U	200	39	20	ug/kg	
56-55-3	Benzo(a)anthracene	39 U	200	39	20	ug/kg	
50-32-8	Benzo(a)pyrene	39 U	200	39	20	ug/kg	
205-99-2	Benzo(b)fluoranthene	39 U	200	39	20	ug/kg	
191-24-2	Benzo(g,h,i)perylene	39 U	200	39	20	ug/kg	
207-08-9	Benzo(k)fluoranthene	39 U	200	39	20	ug/kg	
218-01-9	Chrysene	39 U	200	39	20	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	39 U	200	39	20	ug/kg	
206-44-0	Fluoranthene	39 U	200	39	20	ug/kg	
86-73-7	Fluorene	39 U	200	39	20	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	39 U	200	39	20	ug/kg	
90-12-0	1-Methylnaphthalene	39 U	200	39	20	ug/kg	
91-57-6	2-Methylnaphthalene	39 U	200	39	20	ug/kg	
91-20-3	Naphthalene	39 U	200	39	20	ug/kg	
85-01-8	Phenanthrene	39 U	200	39	20	ug/kg	
129-00-0	Pyrene	39 U	200	39	20	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	77%		40-105%
321-60-8	2-Fluorobiphenyl	83%		43-107%
1718-51-0	Terphenyl-d14	102%		45-119%

U = Not detected LOD = Limit of Detection
LOQ = Limit of Quantitation DL = Detection Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	SR859-6		
Lab Sample ID:	FA23189-11	Date Sampled:	03/26/15
Matrix:	SO - Soil	Date Received:	03/28/15
		Percent Solids:	83.9
Project:	HM-AZ PBR Holloman AFB; Alamogordo, NM		

Metals Analysis

Analyte	Result	LOQ	LOD	DL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Antimony [a]	2.5 U	10	2.5	0.66	mg/kg	10	03/31/15	04/02/15	LM	SW846 6010C [2]	SW846 3050B [3]
Arsenic	2.1	0.51	0.25	0.10	mg/kg	1	03/31/15	04/01/15	LM	SW846 6010C [1]	SW846 3050B [3]
Copper	4.7	1.3	0.10	0.051	mg/kg	1	03/31/15	04/01/15	LM	SW846 6010C [1]	SW846 3050B [3]
Lead [a]	2.3 J	10	2.0	0.51	mg/kg	10	03/31/15	04/02/15	LM	SW846 6010C [2]	SW846 3050B [3]
Zinc [a]	14.1	10	2.5	1.5	mg/kg	10	03/31/15	04/02/15	LM	SW846 6010C [2]	SW846 3050B [3]

(1) Instrument QC Batch: MA12310
(2) Instrument QC Batch: MA12315
(3) Prep QC Batch: MP28734

(a) Elevated reporting limit(s) due to matrix interference.

LOQ = Limit of Quantitation
LOD = Limit of Detection
DL = Detection Limit
U = Indicates a result < LOD
J = Indicates a result >= DL (MDL) but < LOQ

Accutest Laboratories

Report of Analysis

Client Sample ID:	SR859-6A		
Lab Sample ID:	FA23189-12	Date Sampled:	03/26/15
Matrix:	SO - Soil	Date Received:	03/28/15
		Percent Solids:	74.5
Project:	HM-AZ PBR Holloman AFB; Alamogordo, NM		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Solids, Percent	74.5		%	1	04/01/15 14:49	LE	SM19 2540G

RL = Reporting Limit

Raw Data: X039309.D

Accutest Laboratories

Report of Analysis

Client Sample ID:	SR859-7		
Lab Sample ID:	FA23189-13	Date Sampled:	03/26/15
Matrix:	SO - Soil	Date Received:	03/28/15
Method:	SW846 8270D SW846 3550C	Percent Solids:	77.3
Project:	HM-AZ PBR Holloman AFB; Alamogordo, NM		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	X039309.D	1	04/01/15	MV	03/31/15	OP55531	SX1828
Run #2							

	Initial Weight	Final Volume
Run #1	30.0 g	1.0 ml
Run #2		

BN PAH List

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
83-32-9	Acenaphthene	43 U	220	43	22	ug/kg	
208-96-8	Acenaphthylene	43 U	220	43	22	ug/kg	
120-12-7	Anthracene	43 U	220	43	22	ug/kg	
56-55-3	Benzo(a)anthracene	43 U	220	43	22	ug/kg	
50-32-8	Benzo(a)pyrene	43 U	220	43	22	ug/kg	
205-99-2	Benzo(b)fluoranthene	43 U	220	43	22	ug/kg	
191-24-2	Benzo(g,h,i)perylene	43 U	220	43	22	ug/kg	
207-08-9	Benzo(k)fluoranthene	43 U	220	43	22	ug/kg	
218-01-9	Chrysene	43 U	220	43	22	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	43 U	220	43	22	ug/kg	
206-44-0	Fluoranthene	43 U	220	43	22	ug/kg	
86-73-7	Fluorene	43 U	220	43	22	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	43 U	220	43	22	ug/kg	
90-12-0	1-Methylnaphthalene	43 U	220	43	22	ug/kg	
91-57-6	2-Methylnaphthalene	43 U	220	43	22	ug/kg	
91-20-3	Naphthalene	43 U	220	43	22	ug/kg	
85-01-8	Phenanthrene	43 U	220	43	22	ug/kg	
129-00-0	Pyrene	43 U	220	43	22	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	71%		40-105%
321-60-8	2-Fluorobiphenyl	74%		43-107%
1718-51-0	Terphenyl-d14	96%		45-119%

U = Not detected LOD = Limit of Detection J = Indicates an estimated value
LOQ = Limit of Quantitation DL = Detection Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	SR859-7		
Lab Sample ID:	FA23189-13	Date Sampled:	03/26/15
Matrix:	SO - Soil	Date Received:	03/28/15
		Percent Solids:	77.3
Project:	HM-AZ PBR Holloman AFB; Alamogordo, NM		

Metals Analysis

Analyte	Result	LOQ	LOD	DL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Antimony [a]	2.9 U	12	2.9	0.76	mg/kg	10	03/31/15	04/02/15	LM	SW846 6010C [2]	SW846 3050B [3]
Arsenic	1.4	0.58	0.29	0.12	mg/kg	1	03/31/15	04/01/15	LM	SW846 6010C [1]	SW846 3050B [3]
Copper	3.8	1.5	0.12	0.058	mg/kg	1	03/31/15	04/01/15	LM	SW846 6010C [1]	SW846 3050B [3]
Lead [a]	6.1 J	12	2.3	0.58	mg/kg	10	03/31/15	04/02/15	LM	SW846 6010C [2]	SW846 3050B [3]
Zinc [a]	11.9 J	12	2.9	1.7	mg/kg	10	03/31/15	04/02/15	LM	SW846 6010C [2]	SW846 3050B [3]

(1) Instrument QC Batch: MA12310
(2) Instrument QC Batch: MA12315
(3) Prep QC Batch: MP28734

(a) Elevated reporting limit(s) due to matrix interference.

LOQ = Limit of Quantitation
LOD = Limit of Detection
DL = Detection Limit
U = Indicates a result < LOD
J = Indicates a result >= DL (MDL) but < LOQ

Raw Data: X039310.D

Accutest Laboratories

Report of Analysis

Client Sample ID:	SR859-107		
Lab Sample ID:	FA23189-14	Date Sampled:	03/26/15
Matrix:	SO - Soil	Date Received:	03/28/15
Method:	SW846 8270D SW846 3550C	Percent Solids:	78.7
Project:	HM-AZ PBR Holloman AFB; Alamogordo, NM		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	X039310.D	1	04/01/15	MV	03/31/15	OP55531	SX1828
Run #2							

	Initial Weight	Final Volume
Run #1	30.4 g	1.0 ml
Run #2		

BN PAH List

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
83-32-9	Acenaphthene	42 U	210	42	21	ug/kg	
208-96-8	Acenaphthylene	42 U	210	42	21	ug/kg	
120-12-7	Anthracene	42 U	210	42	21	ug/kg	
56-55-3	Benzo(a)anthracene	42 U	210	42	21	ug/kg	
50-32-8	Benzo(a)pyrene	42 U	210	42	21	ug/kg	
205-99-2	Benzo(b)fluoranthene	42 U	210	42	21	ug/kg	
191-24-2	Benzo(g,h,i)perylene	42 U	210	42	21	ug/kg	
207-08-9	Benzo(k)fluoranthene	42 U	210	42	21	ug/kg	
218-01-9	Chrysene	42 U	210	42	21	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	42 U	210	42	21	ug/kg	
206-44-0	Fluoranthene	42 U	210	42	21	ug/kg	
86-73-7	Fluorene	42 U	210	42	21	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	42 U	210	42	21	ug/kg	
90-12-0	1-Methylnaphthalene	42 U	210	42	21	ug/kg	
91-57-6	2-Methylnaphthalene	42 U	210	42	21	ug/kg	
91-20-3	Naphthalene	42 U	210	42	21	ug/kg	
85-01-8	Phenanthrene	42 U	210	42	21	ug/kg	
129-00-0	Pyrene	42 U	210	42	21	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	71%		40-105%
321-60-8	2-Fluorobiphenyl	70%		43-107%
1718-51-0	Terphenyl-d14	98%		45-119%

U = Not detected LOD = Limit of Detection J = Indicates an estimated value
LOQ = Limit of Quantitation DL = Detection Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	SR859-107		
Lab Sample ID:	FA23189-14	Date Sampled:	03/26/15
Matrix:	SO - Soil	Date Received:	03/28/15
		Percent Solids:	78.7
Project:	HM-AZ PBR Holloman AFB; Alamogordo, NM		

Metals Analysis

Analyte	Result	LOQ	LOD	DL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Antimony [a]	2.7 U	11	2.7	0.69	mg/kg	10	03/31/15	04/02/15	LM	SW846 6010C [2]	SW846 3050B [3]
Arsenic	1.2	0.53	0.27	0.11	mg/kg	1	03/31/15	04/01/15	LM	SW846 6010C [1]	SW846 3050B [3]
Copper	3.2	1.3	0.11	0.053	mg/kg	1	03/31/15	04/01/15	LM	SW846 6010C [1]	SW846 3050B [3]
Lead [a]	2.1 U	11	2.1	0.53	mg/kg	10	03/31/15	04/02/15	LM	SW846 6010C [2]	SW846 3050B [3]
Zinc [a]	6.9 J	11	2.7	1.6	mg/kg	10	03/31/15	04/02/15	LM	SW846 6010C [2]	SW846 3050B [3]

(1) Instrument QC Batch: MA12310
(2) Instrument QC Batch: MA12315
(3) Prep QC Batch: MP28734

(a) Elevated reporting limit(s) due to matrix interference.

LOQ = Limit of Quantitation
LOD = Limit of Detection
DL = Detection Limit
U = Indicates a result < LOD
J = Indicates a result > = DL (MDL) but < LOQ

Accutest Laboratories

Report of Analysis

Client Sample ID:	SR859-7A		
Lab Sample ID:	FA23189-15	Date Sampled:	03/26/15
Matrix:	SO - Soil	Date Received:	03/28/15
		Percent Solids:	77.3
Project:	HM-AZ PBR Holloman AFB; Alamogordo, NM		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Solids, Percent	77.3		%	1	04/01/15 15:18	LE	SM19 2540G

RL = Reporting Limit

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FA23189

Raw Data: X039311.D

Accutest Laboratories

Report of Analysis

Client Sample ID:	SR859-8		
Lab Sample ID:	FA23189-16	Date Sampled:	03/26/15
Matrix:	SO - Soil	Date Received:	03/28/15
Method:	SW846 8270D SW846 3550C	Percent Solids:	78.4
Project:	HM-AZ PBR Holloman AFB; Alamogordo, NM		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	X039311.D	1	04/01/15	MV	03/31/15	OP55531	SX1828
Run #2							

	Initial Weight	Final Volume
Run #1	30.0 g	1.0 ml
Run #2		

BN PAH List

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
83-32-9	Acenaphthene	43 U	210	43	21	ug/kg	
208-96-8	Acenaphthylene	43 U	210	43	21	ug/kg	
120-12-7	Anthracene	43 U	210	43	21	ug/kg	
56-55-3	Benzo(a)anthracene	43 U	210	43	21	ug/kg	
50-32-8	Benzo(a)pyrene	43 U	210	43	21	ug/kg	
205-99-2	Benzo(b)fluoranthene	43 U	210	43	21	ug/kg	
191-24-2	Benzo(g,h,i)perylene	43 U	210	43	21	ug/kg	
207-08-9	Benzo(k)fluoranthene	43 U	210	43	21	ug/kg	
218-01-9	Chrysene	43 U	210	43	21	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	43 U	210	43	21	ug/kg	
206-44-0	Fluoranthene	43 U	210	43	21	ug/kg	
86-73-7	Fluorene	43 U	210	43	21	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	43 U	210	43	21	ug/kg	
90-12-0	1-Methylnaphthalene	43 U	210	43	21	ug/kg	
91-57-6	2-Methylnaphthalene	43 U	210	43	21	ug/kg	
91-20-3	Naphthalene	43 U	210	43	21	ug/kg	
85-01-8	Phenanthrene	43 U	210	43	21	ug/kg	
129-00-0	Pyrene	43 U	210	43	21	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	76%		40-105%
321-60-8	2-Fluorobiphenyl	80%		43-107%
1718-51-0	Terphenyl-d14	98%		45-119%

U = Not detected LOD = Limit of Detection J = Indicates an estimated value
LOQ = Limit of Quantitation DL = Detection Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	SR859-8		
Lab Sample ID:	FA23189-16	Date Sampled:	03/26/15
Matrix:	SO - Soil	Date Received:	03/28/15
		Percent Solids:	78.4
Project:	HM-AZ PBR Holloman AFB; Alamogordo, NM		

Metals Analysis

Analyte	Result	LOQ	LOD	DL	Units	DF	Prep	Analyzed By		Method	Prep Method
Antimony [a]	2.6 U	10	2.6	0.67	mg/kg	10	03/31/15	04/02/15	LM	SW846 6010C [2]	SW846 3050B [3]
Arsenic	1.6	0.51	0.26	0.10	mg/kg	1	03/31/15	04/01/15	LM	SW846 6010C [1]	SW846 3050B [3]
Copper	3.5	1.3	0.10	0.051	mg/kg	1	03/31/15	04/01/15	LM	SW846 6010C [1]	SW846 3050B [3]
Lead [a]	2.4 J	10	2.1	0.51	mg/kg	10	03/31/15	04/02/15	LM	SW846 6010C [2]	SW846 3050B [3]
Zinc [a]	10.2	10	2.6	1.5	mg/kg	10	03/31/15	04/02/15	LM	SW846 6010C [2]	SW846 3050B [3]

(1) Instrument QC Batch: MA12310
(2) Instrument QC Batch: MA12315
(3) Prep QC Batch: MP28734

(a) Elevated reporting limit(s) due to matrix interference.

LOQ = Limit of Quantitation
LOD = Limit of Detection
DL = Detection Limit
U = Indicates a result < LOD
J = Indicates a result >= DL (MDL) but < LOQ

Accutest Laboratories

Report of Analysis

Client Sample ID:	SR859-8A		
Lab Sample ID:	FA23189-17	Date Sampled:	03/26/15
Matrix:	SO - Soil	Date Received:	03/28/15
		Percent Solids:	77.2
Project:	HM-AZ PBR Holloman AFB; Alamogordo, NM		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Solids, Percent	77.2		%	1	04/01/15 15:18	LE	SM19 2540G

RL = Reporting Limit

Raw Data: X039312.D

Accutest Laboratories

Report of Analysis

Client Sample ID:	SR859-9		
Lab Sample ID:	FA23189-18	Date Sampled:	03/26/15
Matrix:	SO - Soil	Date Received:	03/28/15
Method:	SW846 8270D SW846 3550C	Percent Solids:	70.4
Project:	HM-AZ PBR Holloman AFB; Alamogordo, NM		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	X039312.D	1	04/01/15	MV	03/31/15	OP55531	SX1828
Run #2							

	Initial Weight	Final Volume
Run #1	30.0 g	1.0 ml
Run #2		

BN PAH List

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
83-32-9	Acenaphthene	47 U	240	47	24	ug/kg	
208-96-8	Acenaphthylene	47 U	240	47	24	ug/kg	
120-12-7	Anthracene	47 U	240	47	24	ug/kg	
56-55-3	Benzo(a)anthracene	47 U	240	47	24	ug/kg	
50-32-8	Benzo(a)pyrene	47 U	240	47	24	ug/kg	
205-99-2	Benzo(b)fluoranthene	47 U	240	47	24	ug/kg	
191-24-2	Benzo(g,h,i)perylene	47 U	240	47	24	ug/kg	
207-08-9	Benzo(k)fluoranthene	47 U	240	47	24	ug/kg	
218-01-9	Chrysene	47 U	240	47	24	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	47 U	240	47	24	ug/kg	
206-44-0	Fluoranthene	47 U	240	47	24	ug/kg	
86-73-7	Fluorene	47 U	240	47	24	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	47 U	240	47	24	ug/kg	
90-12-0	1-Methylnaphthalene	47 U	240	47	24	ug/kg	
91-57-6	2-Methylnaphthalene	47 U	240	47	24	ug/kg	
91-20-3	Naphthalene	47 U	240	47	24	ug/kg	
85-01-8	Phenanthrene	47 U	240	47	24	ug/kg	
129-00-0	Pyrene	47 U	240	47	24	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	72%		40-105%
321-60-8	2-Fluorobiphenyl	78%		43-107%
1718-51-0	Terphenyl-d14	97%		45-119%

U = Not detected LOD = Limit of Detection J = Indicates an estimated value
LOQ = Limit of Quantitation DL = Detection Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	SR859-9		
Lab Sample ID:	FA23189-18	Date Sampled:	03/26/15
Matrix:	SO - Soil	Date Received:	03/28/15
		Percent Solids:	70.4
Project:	HM-AZ PBR Holloman AFB; Alamogordo, NM		

Metals Analysis

Analyte	Result	LOQ	LOD	DL	Units	DF	Prep	Analyzed By	Method	Prep Method
Antimony [a]	2.8 U	11	2.8	0.74	mg/kg	10	03/31/15	04/02/15 LM	SW846 6010C [2]	SW846 3050B [3]
Arsenic	1.2	0.57	0.28	0.11	mg/kg	1	03/31/15	04/01/15 LM	SW846 6010C [1]	SW846 3050B [3]
Copper	2.9	1.4	0.11	0.057	mg/kg	1	03/31/15	04/01/15 LM	SW846 6010C [1]	SW846 3050B [3]
Lead [a]	1.1 J	11	2.3	0.57	mg/kg	10	03/31/15	04/02/15 LM	SW846 6010C [2]	SW846 3050B [3]
Zinc [a]	9.0 J	11	2.8	1.7	mg/kg	10	03/31/15	04/02/15 LM	SW846 6010C [2]	SW846 3050B [3]

(1) Instrument QC Batch: MA12310
(2) Instrument QC Batch: MA12315
(3) Prep QC Batch: MP28734

(a) Elevated reporting limit(s) due to matrix interference.

LOQ = Limit of Quantitation
LOD = Limit of Detection
DL = Detection Limit
U = Indicates a result < LOD
J = Indicates a result >= DL (MDL) but < LOQ

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Report of Analysis

Client Sample ID:	SR859-9A		
Lab Sample ID:	FA23189-19	Date Sampled:	03/26/15
Matrix:	SO - Soil	Date Received:	03/28/15
		Percent Solids:	73.2
Project:	HM-AZ PBR Holloman AFB; Alamogordo, NM		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Solids, Percent	73.2		%	1	04/01/15 15:18	LE	SM19 2540G

RL = Reporting Limit

Raw Data: X039313.D

Accutest Laboratories

Report of Analysis

Client Sample ID:	SR859-10		
Lab Sample ID:	FA23189-20	Date Sampled:	03/26/15
Matrix:	SO - Soil	Date Received:	03/28/15
Method:	SW846 8270D SW846 3550C	Percent Solids:	79.4
Project:	HM-AZ PBR Holloman AFB; Alamogordo, NM		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	X039313.D	1	04/01/15	MV	03/31/15	OP55531	SX1828
Run #2							

	Initial Weight	Final Volume
Run #1	30.4 g	1.0 ml
Run #2		

BN PAH List

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
83-32-9	Acenaphthene	41 U	210	41	21	ug/kg	
208-96-8	Acenaphthylene	41 U	210	41	21	ug/kg	
120-12-7	Anthracene	41 U	210	41	21	ug/kg	
56-55-3	Benzo(a)anthracene	32.9	210	41	21	ug/kg	J
50-32-8	Benzo(a)pyrene	37.1	210	41	21	ug/kg	J
205-99-2	Benzo(b)fluoranthene	43.6	210	41	21	ug/kg	J
191-24-2	Benzo(g,h,i)perylene	30.9	210	41	21	ug/kg	J
207-08-9	Benzo(k)fluoranthene	30.6	210	41	21	ug/kg	J
218-01-9	Chrysene	41.3	210	41	21	ug/kg	J
53-70-3	Dibenzo(a,h)anthracene	41 U	210	41	21	ug/kg	
206-44-0	Fluoranthene	38.3	210	41	21	ug/kg	J
86-73-7	Fluorene	41 U	210	41	21	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	28.4	210	41	21	ug/kg	J
90-12-0	1-Methylnaphthalene	41 U	210	41	21	ug/kg	
91-57-6	2-Methylnaphthalene	41 U	210	41	21	ug/kg	
91-20-3	Naphthalene	41 U	210	41	21	ug/kg	
85-01-8	Phenanthrene	41 U	210	41	21	ug/kg	
129-00-0	Pyrene	39.8	210	41	21	ug/kg	J

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	77%		40-105%
321-60-8	2-Fluorobiphenyl	82%		43-107%
1718-51-0	Terphenyl-d14	105%		45-119%

U = Not detected LOD = Limit of Detection
LOQ = Limit of Quantitation DL = Detection Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

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FA23189

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Report of Analysis

Client Sample ID:	SR859-10		
Lab Sample ID:	FA23189-20	Date Sampled:	03/26/15
Matrix:	SO - Soil	Date Received:	03/28/15
		Percent Solids:	79.4
Project:	HM-AZ PBR Holloman AFB; Alamogordo, NM		

Metals Analysis

Analyte	Result	LOQ	LOD	DL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Antimony [a]	2.6 U J	10	2.6	0.67	mg/kg	10	03/31/15	04/02/15	LM	SW846 6010C [2]	SW846 3050B [3]
Arsenic	2.3	0.51	0.26	0.10	mg/kg	1	03/31/15	04/01/15	LM	SW846 6010C [1]	SW846 3050B [3]
Copper	4.5	1.3	0.10	0.051	mg/kg	1	03/31/15	04/01/15	LM	SW846 6010C [1]	SW846 3050B [3]
Lead [a]	1.7 J	10	2.0	0.51	mg/kg	10	03/31/15	04/02/15	LM	SW846 6010C [2]	SW846 3050B [3]
Zinc [a]	17.6	10	2.6	1.5	mg/kg	10	03/31/15	04/02/15	LM	SW846 6010C [2]	SW846 3050B [3]

(1) Instrument QC Batch: MA12310
(2) Instrument QC Batch: MA12315
(3) Prep QC Batch: MP28734

(a) Elevated reporting limit(s) due to matrix interference.

CHH
9/5/15

LOQ = Limit of Quantitation
LOD = Limit of Detection
DL = Detection Limit
U = Indicates a result < LOD
J = Indicates a result >= DL (MDL) but < LOQ

Accutest Laboratories

Report of Analysis

Client Sample ID:	SR859-10A		
Lab Sample ID:	FA23189-21	Date Sampled:	03/26/15
Matrix:	SO - Soil	Date Received:	03/28/15
		Percent Solids:	84.7
Project:	HM-AZ PBR Holloman AFB; Alamogordo, NM		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Solids, Percent	84.7		%	1	04/01/15 15:18	LE	SM19 2540G

RL = Reporting Limit

Raw Data: X039314.D

Accutest Laboratories

Report of Analysis

Client Sample ID:	SR859-11		
Lab Sample ID:	FA23189-22	Date Sampled:	03/26/15
Matrix:	SO - Soil	Date Received:	03/28/15
Method:	SW846 8270D SW846 3550C	Percent Solids:	82.0
Project:	HM-AZ PBR Holloman AFB, Alamogordo, NM		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	X039314.D	1	04/01/15	MV	03/31/15	OP55531	SX1828
Run #2							

	Initial Weight	Final Volume
Run #1	29.8 g	1.0 ml
Run #2		

BN PAH List

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
83-32-9	Acenaphthene	41 U	200	41	20	ug/kg	
208-96-8	Acenaphthylene	41 U	200	41	20	ug/kg	
120-12-7	Anthracene	41 U	200	41	20	ug/kg	
56-55-3	Benzo(a)anthracene	41 U	200	41	20	ug/kg	
50-32-8	Benzo(a)pyrene	41 U	200	41	20	ug/kg	
205-99-2	Benzo(b)fluoranthene	41 U	200	41	20	ug/kg	
191-24-2	Benzo(g,h,i)perylene	41 U	200	41	20	ug/kg	
207-08-9	Benzo(k)fluoranthene	41 U	200	41	20	ug/kg	
218-01-9	Chrysene	41 U	200	41	20	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	41 U	200	41	20	ug/kg	
206-44-0	Fluoranthene	41 U	200	41	20	ug/kg	
86-73-7	Fluorene	41 U	200	41	20	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	41 U	200	41	20	ug/kg	
90-12-0	1-Methylnaphthalene	41 U	200	41	20	ug/kg	
91-57-6	2-Methylnaphthalene	41 U	200	41	20	ug/kg	
91-20-3	Naphthalene	41 U	200	41	20	ug/kg	
85-01-8	Phenanthrene	41 U	200	41	20	ug/kg	
129-00-0	Pyrene	41 U	200	41	20	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	85%		40-105%
321-60-8	2-Fluorobiphenyl	89%		43-107%
1718-51-0	Terphenyl-d14	112%		45-119%

U = Not detected LOD = Limit of Detection J = Indicates an estimated value
LOQ = Limit of Quantitation DL = Detection Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	SR859-11		
Lab Sample ID:	FA23189-22	Date Sampled:	03/26/15
Matrix:	SO - Soil	Date Received:	03/28/15
		Percent Solids:	82.0
Project:	HM-AZ PBR Holloman AFB; Alamogordo, NM		

Metals Analysis

Analyte	Result	LOQ	LOD	DL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Antimony [a]	2.5 U	10	2.5	0.66	mg/kg	10	03/31/15	04/02/15	LM	SW846 6010C [2]	SW846 3050B [3]
Arsenic	1.9	0.50	0.25	0.10	mg/kg	1	03/31/15	04/01/15	LM	SW846 6010C [1]	SW846 3050B [3]
Copper	3.9	1.3	0.10	0.050	mg/kg	1	03/31/15	04/01/15	LM	SW846 6010C [1]	SW846 3050B [3]
Lead [a]	1.8 J	10	2.0	0.50	mg/kg	10	03/31/15	04/02/15	LM	SW846 6010C [2]	SW846 3050B [3]
Zinc [a]	14.8	10	2.5	1.5	mg/kg	10	03/31/15	04/02/15	LM	SW846 6010C [2]	SW846 3050B [3]

(1) Instrument QC Batch: MA12310
(2) Instrument QC Batch: MA12315
(3) Prep QC Batch: MP28734

(a) Elevated reporting limit(s) due to matrix interference.

LOQ = Limit of Quantitation
LOD = Limit of Detection
DL = Detection Limit
U = Indicates a result < LOD
J = Indicates a result >= DL (MDL) but < LOQ

Accutest Laboratories

Report of Analysis

Client Sample ID:	SR859-11A		
Lab Sample ID:	FA23189-23	Date Sampled:	03/26/15
Matrix:	SO - Soil	Date Received:	03/28/15
		Percent Solids:	81.1
Project:	HM-AZ PBR Holloman AFB; Alamogordo, NM		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Solids, Percent	81.1		%	1	04/01/15 15:18	LE	SM19 2540G

RL = Reporting Limit

Raw Data: X039315.D

Accutest Laboratories

Report of Analysis

Client Sample ID:	SR859-12		
Lab Sample ID:	FA23189-24	Date Sampled:	03/26/15
Matrix:	SO - Soil	Date Received:	03/28/15
Method:	SW846 8270D SW846 3550C	Percent Solids:	85.9
Project:	HM-AZ PBR Holloman AFB; Alamogordo, NM		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	X039315.D	1	04/01/15	MV	03/31/15	OP55531	SX1828
Run #2							

	Initial Weight	Final Volume
Run #1	29.6 g	1.0 ml
Run #2		

BN PAH List

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
83-32-9	Acenaphthene	39 U	200	39	20	ug/kg	
208-96-8	Acenaphthylene	39 U	200	39	20	ug/kg	
120-12-7	Anthracene	39 U	200	39	20	ug/kg	
56-55-3	Benzo(a)anthracene	39 U	200	39	20	ug/kg	
50-32-8	Benzo(a)pyrene	39 U	200	39	20	ug/kg	
205-99-2	Benzo(b)fluoranthene	39 U	200	39	20	ug/kg	
191-24-2	Benzo(g,h,i)perylene	39 U	200	39	20	ug/kg	
207-08-9	Benzo(k)fluoranthene	39 U	200	39	20	ug/kg	
218-01-9	Chrysene	39 U	200	39	20	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	39 U	200	39	20	ug/kg	
206-44-0	Fluoranthene	39 U	200	39	20	ug/kg	
86-73-7	Fluorene	39 U	200	39	20	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	39 U	200	39	20	ug/kg	
90-12-0	1-Methylnaphthalene	39 U	200	39	20	ug/kg	
91-57-6	2-Methylnaphthalene	39 U	200	39	20	ug/kg	
91-20-3	Naphthalene	39 U	200	39	20	ug/kg	
85-01-8	Phenanthrene	39 U	200	39	20	ug/kg	
129-00-0	Pyrene	39 U	200	39	20	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	75%		40-105%
321-60-8	2-Fluorobiphenyl	79%		43-107%
1718-51-0	Terphenyl-d14	104%		45-119%

U = Not detected LOD = Limit of Detection
LOQ = Limit of Quantitation DL = Detection Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	SR859-12		
Lab Sample ID:	FA23189-24	Date Sampled:	03/26/15
Matrix:	SO - Soil	Date Received:	03/28/15
		Percent Solids:	85.9
Project:	HM-AZ PBR Holloman AFB; Alamogordo, NM		

Metals Analysis

Analyte	Result	LOQ	LOD	DL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Antimony [a]	2.1 U	8.4	2.1	0.54	mg/kg	10	03/31/15	04/02/15	LM	SW846 6010C [2]	SW846 3050B [3]
Arsenic	2.3	0.42	0.21	0.084	mg/kg	1	03/31/15	04/01/15	LM	SW846 6010C [1]	SW846 3050B [3]
Copper	7.2	1.0	0.084	0.042	mg/kg	1	03/31/15	04/01/15	LM	SW846 6010C [1]	SW846 3050B [3]
Lead [a]	5.1 J	8.4	1.7	0.42	mg/kg	10	03/31/15	04/02/15	LM	SW846 6010C [2]	SW846 3050B [3]
Zinc [a]	29.2	8.4	2.1	1.3	mg/kg	10	03/31/15	04/02/15	LM	SW846 6010C [2]	SW846 3050B [3]

(1) Instrument QC Batch: MA12310
(2) Instrument QC Batch: MA12315
(3) Prep QC Batch: MP28734

(a) Elevated reporting limit(s) due to matrix interference.

LOQ = Limit of Quantitation
LOD = Limit of Detection
DL = Detection Limit
U = Indicates a result < LOD
J = Indicates a result >= DL (MDL) but < LOQ

Raw Data: X039316.D

Accutest Laboratories

Report of Analysis

Client Sample ID:	SR859-112		
Lab Sample ID:	FA23189-25	Date Sampled:	03/26/15
Matrix:	SO - Soil	Date Received:	03/28/15
Method:	SW846 8270D SW846 3550C	Percent Solids:	86.1
Project:	HM-AZ PBR Holloman AFB; Alamogordo, NM		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	X039316.D	1	04/01/15	MV	03/31/15	OP55531	SX1828
Run #2							

	Initial Weight	Final Volume
Run #1	29.7 g	1.0 ml
Run #2		

BN PAH List

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
83-32-9	Acenaphthene	39 U	200	39	20	ug/kg	
208-96-8	Acenaphthylene	39 U	200	39	20	ug/kg	
120-12-7	Anthracene	39 U	200	39	20	ug/kg	
56-55-3	Benzo(a)anthracene	39 U	200	39	20	ug/kg	
50-32-8	Benzo(a)pyrene	39 U	200	39	20	ug/kg	
205-99-2	Benzo(b)fluoranthene	39 U	200	39	20	ug/kg	
191-24-2	Benzo(g,h,i)perylene	39 U	200	39	20	ug/kg	
207-08-9	Benzo(k)fluoranthene	39 U	200	39	20	ug/kg	
218-01-9	Chrysene	39 U	200	39	20	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	39 U	200	39	20	ug/kg	
206-44-0	Fluoranthene	39 U	200	39	20	ug/kg	
86-73-7	Fluorene	39 U	200	39	20	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	39 U	200	39	20	ug/kg	
90-12-0	1-Methylnaphthalene	39 U	200	39	20	ug/kg	
91-57-6	2-Methylnaphthalene	39 U	200	39	20	ug/kg	
91-20-3	Naphthalene	39 U	200	39	20	ug/kg	
85-01-8	Phenanthrene	39 U	200	39	20	ug/kg	
129-00-0	Pyrene	39 U	200	39	20	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	75%		40-105%
321-60-8	2-Fluorobiphenyl	74%		43-107%
1718-51-0	Terphenyl-d14	99%		45-119%

U = Not detected LOD = Limit of Detection J = Indicates an estimated value
LOQ = Limit of Quantitation DL = Detection Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	SR859-112		
Lab Sample ID:	FA23189-25	Date Sampled:	03/26/15
Matrix:	SO - Soil	Date Received:	03/28/15
		Percent Solids:	86.1
Project:	HM-AZ PBR Holloman AFB; Alamogordo, NM		

Metals Analysis

Analyte	Result	LOQ	LOD	DL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Antimony [a]	1.1 U	4.2	1.1	0.27	mg/kg	4	03/31/15	04/02/15	LM	SW846 6010C [2]	SW846 3050B [3]
Arsenic	2.6	0.53	0.26	0.11	mg/kg	1	03/31/15	04/01/15	LM	SW846 6010C [1]	SW846 3050B [3]
Copper	9.7	1.3	0.11	0.053	mg/kg	1	03/31/15	04/01/15	LM	SW846 6010C [1]	SW846 3050B [3]
Lead [a]	9.5	4.2	0.84	0.21	mg/kg	4	03/31/15	04/02/15	LM	SW846 6010C [2]	SW846 3050B [3]
Zinc [a]	37.6	4.2	1.1	0.63	mg/kg	4	03/31/15	04/02/15	LM	SW846 6010C [2]	SW846 3050B [3]

(1) Instrument QC Batch: MA12310
(2) Instrument QC Batch: MA12315
(3) Prep QC Batch: MP28734

(a) Elevated reporting limit(s) due to matrix interference.

LOQ = Limit of Quantitation
LOD = Limit of Detection
DL = Detection Limit
U = Indicates a result < LOD
J = Indicates a result >= DL (MDL) but < LOQ

Accutest Laboratories

Report of Analysis

Client Sample ID:	SR859-12A		
Lab Sample ID:	FA23189-26	Date Sampled:	03/26/15
Matrix:	SO - Soil	Date Received:	03/28/15
		Percent Solids:	99.8
Project:	HM-AZ PBR Holloman AFB; Alamogordo, NM		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Solids, Percent	99 8		%	1	04/01/15 15:18	LE	SM19 2540G

RL = Reporting Limit

Raw Data: X039317.D

Accutest Laboratories

Report of Analysis

Client Sample ID:	SR859-13		
Lab Sample ID:	FA23189-27	Date Sampled:	03/27/15
Matrix:	SO - Soil	Date Received:	03/28/15
Method:	SW846 8270D SW846 3550C	Percent Solids:	72.2
Project:	HM-AZ PBR Holloman AFB; Alamogordo, NM		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	X039317.D	1	04/01/15	MV	03/31/15	OP55531	SX1828
Run #2							

	Initial Weight	Final Volume
Run #1	30.0 g	1.0 ml
Run #2		

BN PAH List

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
83-32-9	Acenaphthene	46 U	230	46	23	ug/kg	
208-96-8	Acenaphthylene	46 U	230	46	23	ug/kg	
120-12-7	Anthracene	46 U	230	46	23	ug/kg	
56-55-3	Benzo(a)anthracene	46 U	230	46	23	ug/kg	
50-32-8	Benzo(a)pyrene	46 U	230	46	23	ug/kg	
205-99-2	Benzo(b)fluoranthene	46 U	230	46	23	ug/kg	
191-24-2	Benzo(g,h,i)perylene	46 U	230	46	23	ug/kg	
207-08-9	Benzo(k)fluoranthene	46 U	230	46	23	ug/kg	
218-01-9	Chrysene	46 U	230	46	23	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	46 U	230	46	23	ug/kg	
206-44-0	Fluoranthene	46 U	230	46	23	ug/kg	
86-73-7	Fluorene	46 U	230	46	23	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	46 U	230	46	23	ug/kg	
90-12-0	1-Methylnaphthalene	46 U	230	46	23	ug/kg	
91-57-6	2-Methylnaphthalene	46 U	230	46	23	ug/kg	
91-20-3	Naphthalene	46 U	230	46	23	ug/kg	
85-01-8	Phenanthrene	46 U	230	46	23	ug/kg	
129-00-0	Pyrene	46 U	230	46	23	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	77%		40-105%
321-60-8	2-Fluorobiphenyl	80%		43-107%
1718-51-0	Terphenyl-d14	101%		45-119%

U = Not detected LOD = Limit of Detection J = Indicates an estimated value
LOQ = Limit of Quantitation DL = Detection Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	SR859-13		
Lab Sample ID:	FA23189-27	Date Sampled:	03/27/15
Matrix:	SO - Soil	Date Received:	03/28/15
		Percent Solids:	72.2
Project:	HM-AZ PBR Holloman AFB; Alamogordo, NM		

Metals Analysis

Analyte	Result	LOQ	LOD	DL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Antimony [a]	2.5 U	9.8	2.5	0.64	mg/kg	10	03/31/15	04/03/15	LM	SW846 6010C [2]	SW846 3050B [3]
Arsenic	3.1	0.49	0.25	0.098	mg/kg	1	03/31/15	04/01/15	LM	SW846 6010C [1]	SW846 3050B [3]
Copper	8.2	1.2	0.098	0.049	mg/kg	1	03/31/15	04/01/15	LM	SW846 6010C [1]	SW846 3050B [3]
Lead [a]	5.9 J	9.8	2.0	0.49	mg/kg	10	03/31/15	04/03/15	LM	SW846 6010C [2]	SW846 3050B [3]
Zinc [a]	27.3	9.8	2.5	1.5	mg/kg	10	03/31/15	04/03/15	LM	SW846 6010C [2]	SW846 3050B [3]

(1) Instrument QC Batch: MA12310
(2) Instrument QC Batch: MA12317
(3) Prep QC Batch: MP28734

(a) Elevated reporting limit(s) due to matrix interference.

LOQ = Limit of Quantitation
LOD = Limit of Detection
DL = Detection Limit
U = Indicates a result < LOD
J = Indicates a result > = DL (MDL) but < LOQ

Accutest Laboratories

Report of Analysis

Client Sample ID:	SR859-13A		
Lab Sample ID:	FA23189-28	Date Sampled:	03/27/15
Matrix:	SO - Soil	Date Received:	03/28/15
		Percent Solids:	79.5
Project:	HM-AZ PBR Holloman AFB; Alamogordo, NM		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Solids, Percent	79.5		%	1	04/01/15 15:18	LE	SM19 2540G

RL = Reporting Limit

Raw Data: X039318.D

Accutest Laboratories

Report of Analysis

Client Sample ID:	SR859-14		
Lab Sample ID:	FA23189-29	Date Sampled:	03/27/15
Matrix:	SO - Soil	Date Received:	03/28/15
Method:	SW846 8270D SW846 3550C	Percent Solids:	77.6
Project:	HM-AZ PBR Holloman AFB; Alamogordo, NM		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	X039318.D	1	04/01/15	MV	03/31/15	OP55531	SX1828
Run #2							

	Initial Weight	Final Volume
Run #1	29.8 g	1.0 ml
Run #2		

BN PAH List

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
83-32-9	Acenaphthene	43 U	220	43	22	ug/kg	
208-96-8	Acenaphthylene	43 U	220	43	22	ug/kg	
120-12-7	Anthracene	43 U	220	43	22	ug/kg	
56-55-3	Benzo(a)anthracene	43 U	220	43	22	ug/kg	
50-32-8	Benzo(a)pyrene	43 U	220	43	22	ug/kg	
205-99-2	Benzo(b)fluoranthene	43 U	220	43	22	ug/kg	
191-24-2	Benzo(g,h,i)perylene	43 U	220	43	22	ug/kg	
207-08-9	Benzo(k)fluoranthene	43 U	220	43	22	ug/kg	
218-01-9	Chrysene	43 U	220	43	22	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	43 U	220	43	22	ug/kg	
206-44-0	Fluoranthene	43 U	220	43	22	ug/kg	
86-73-7	Fluorene	43 U	220	43	22	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	43 U	220	43	22	ug/kg	
90-12-0	1-Methylnaphthalene	43 U	220	43	22	ug/kg	
91-57-6	2-Methylnaphthalene	43 U	220	43	22	ug/kg	
91-20-3	Naphthalene	43 U	220	43	22	ug/kg	
85-01-8	Phenanthrene	43 U	220	43	22	ug/kg	
129-00-0	Pyrene	43 U	220	43	22	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	81%		40-105%
321-60-8	2-Fluorobiphenyl	82%		43-107%
1718-51-0	Terphenyl-d14	109%		45-119%

U = Not detected LOD = Limit of Detection
LOQ = Limit of Quantitation DL = Detection Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	SR859-14		
Lab Sample ID:	FA23189-29	Date Sampled:	03/27/15
Matrix:	SO - Soil	Date Received:	03/28/15
		Percent Solids:	77.6
Project:	HM-AZ PBR Holloman AFB; Alamogordo, NM		

Metals Analysis

Analyte	Result	LOQ	LOD	DL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Antimony [a]	2.8 U	11	2.8	0.73	mg/kg	10	03/31/15	04/02/15	LM	SW846 6010C [2]	SW846 3050B [3]
Arsenic	1.4	0.57	0.28	0.11	mg/kg	1	03/31/15	04/01/15	LM	SW846 6010C [1]	SW846 3050B [3]
Copper	2.8	1.4	0.11	0.057	mg/kg	1	03/31/15	04/01/15	LM	SW846 6010C [1]	SW846 3050B [3]
Lead [a]	2.3 U	11	2.3	0.57	mg/kg	10	03/31/15	04/02/15	LM	SW846 6010C [2]	SW846 3050B [3]
Zinc [a]	8.3 J	11	2.8	1.7	mg/kg	10	03/31/15	04/02/15	LM	SW846 6010C [2]	SW846 3050B [3]

(1) Instrument QC Batch: MA12310
(2) Instrument QC Batch: MA12315
(3) Prep QC Batch: MP28734

(a) Elevated reporting limit(s) due to matrix interference.

LOQ = Limit of Quantitation
LOD = Limit of Detection
DL = Detection Limit
U = Indicates a result < LOD
J = Indicates a result >= DL (MDL) but < LOQ

Accutest Laboratories

Report of Analysis

Client Sample ID:	SR859-14A		
Lab Sample ID:	FA23189-30	Date Sampled:	03/27/15
Matrix:	SO - Soil	Date Received:	03/28/15
		Percent Solids:	84.9
Project:	HM-AZ PBR Holloman AFB; Alamogordo, NM		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Solids, Percent	84 9		%	1	04/01/15 15:18	LE	SM19 2540G

RL = Reporting Limit

Raw Data: X039321.D

Accutest Laboratories

Report of Analysis

Client Sample ID:	SR859-15		
Lab Sample ID:	FA23189-31	Date Sampled:	03/27/15
Matrix:	SO - Soil	Date Received:	03/28/15
Method:	SW846 8270D SW846 3550C	Percent Solids:	76.3
Project:	HM-AZ PBR Holloman AFB; Alamogordo, NM		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	X039321.D	1	04/01/15	MV	03/31/15	OP55531	SX1828
Run #2							

	Initial Weight	Final Volume
Run #1	29.7 g	1.0 ml
Run #2		

BN PAH List

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
83-32-9	Acenaphthene	44 U	220	44	22	ug/kg	
208-96-8	Acenaphthylene	44 U	220	44	22	ug/kg	
120-12-7	Anthracene	44 U	220	44	22	ug/kg	
56-55-3	Benzo(a)anthracene	44 U	220	44	22	ug/kg	
50-32-8	Benzo(a)pyrene	44 U	220	44	22	ug/kg	
205-99-2	Benzo(b)fluoranthene	44 U	220	44	22	ug/kg	
191-24-2	Benzo(g,h,i)perylene	44 U	220	44	22	ug/kg	
207-08-9	Benzo(k)fluoranthene	44 U	220	44	22	ug/kg	
218-01-9	Chrysene	44 U	220	44	22	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	44 U	220	44	22	ug/kg	
206-44-0	Fluoranthene	44 U	220	44	22	ug/kg	
86-73-7	Fluorene	44 U	220	44	22	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	44 U	220	44	22	ug/kg	
90-12-0	1-Methylnaphthalene	44 U	220	44	22	ug/kg	
91-57-6	2-Methylnaphthalene	44 U	220	44	22	ug/kg	
91-20-3	Naphthalene	44 U	220	44	22	ug/kg	
85-01-8	Phenanthrene	44 U	220	44	22	ug/kg	
129-00-0	Pyrene	44 U	220	44	22	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	73%		40-105%
321-60-8	2-Fluorobiphenyl	75%		43-107%
1718-51-0	Terphenyl-d14	93%		45-119%

U = Not detected LOD = Limit of Detection J = Indicates an estimated value
LOQ = Limit of Quantitation DL = Detection Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	SR859-15		
Lab Sample ID:	FA23189-31	Date Sampled:	03/27/15
Matrix:	SO - Soil	Date Received:	03/28/15
		Percent Solids:	76.3
Project:	HM-AZ PBR Holloman AFB; Alamogordo, NM		

Metals Analysis

Analyte	Result	LOQ	LOD	DL	Units	DF	Prep	Analyzed By	Method	Prep Method
Antimony [a]	2.3 U	9.1	2.3	0.59	mg/kg	10	03/31/15	04/02/15 LM	SW846 6010C [2]	SW846 3050B [3]
Arsenic	1.1	0.46	0.23	0.091	mg/kg	1	03/31/15	04/01/15 LM	SW846 6010C [1]	SW846 3050B [3]
Copper	1.9	1.1	0.091	0.046	mg/kg	1	03/31/15	04/01/15 LM	SW846 6010C [1]	SW846 3050B [3]
Lead [a]	1.8 U	9.1	1.8	0.46	mg/kg	10	03/31/15	04/02/15 LM	SW846 6010C [2]	SW846 3050B [3]
Zinc [a]	5.0 J	9.1	2.3	1.4	mg/kg	10	03/31/15	04/02/15 LM	SW846 6010C [2]	SW846 3050B [3]

(1) Instrument QC Batch: MA12310
(2) Instrument QC Batch: MA12315
(3) Prep QC Batch: MP28734

(a) Elevated reporting limit(s) due to matrix interference.

LOQ = Limit of Quantitation
LOD = Limit of Detection
DL = Detection Limit
U = Indicates a result < LOD
J = Indicates a result >= DL (MDL) but < LOQ

Accutest Laboratories

Report of Analysis

Client Sample ID:	SR859-15A		
Lab Sample ID:	FA23189-32	Date Sampled:	03/27/15
Matrix:	SO - Soil	Date Received:	03/28/15
		Percent Solids:	79.1
Project:	HM-AZ PBR Holloman AFB; Alamogordo, NM		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Solids, Percent	79.1		%	1	04/01/15 15:18	LE	SM19 2540G

RL = Reporting Limit

Raw Data: X039322.D

Accutest Laboratories

Report of Analysis

Client Sample ID:	SR859-16		
Lab Sample ID:	FA23189-33	Date Sampled:	03/27/15
Matrix:	SO - Soil	Date Received:	03/28/15
Method:	SW846 8270D SW846 3550C	Percent Solids:	78.8
Project:	HM-AZ PBR Holloman AFB; Alamogordo, NM		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	X039322.D	1	04/01/15	MV	03/31/15	OP55531	SX1828
Run #2							

	Initial Weight	Final Volume
Run #1	30.1 g	1.0 ml
Run #2		

BN PAH List

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
83-32-9	Acenaphthene	42 U	210	42	21	ug/kg	
208-96-8	Acenaphthylene	42 U	210	42	21	ug/kg	
120-12-7	Anthracene	42 U	210	42	21	ug/kg	
56-55-3	Benzo(a)anthracene	42 U	210	42	21	ug/kg	
50-32-8	Benzo(a)pyrene	42 U	210	42	21	ug/kg	
205-99-2	Benzo(b)fluoranthene	42 U	210	42	21	ug/kg	
191-24-2	Benzo(g,h,i)perylene	42 U	210	42	21	ug/kg	
207-08-9	Benzo(k)fluoranthene	42 U	210	42	21	ug/kg	
218-01-9	Chrysene	42 U	210	42	21	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	42 U	210	42	21	ug/kg	
206-44-0	Fluoranthene	42 U	210	42	21	ug/kg	
86-73-7	Fluorene	42 U	210	42	21	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	42 U	210	42	21	ug/kg	
90-12-0	1-Methylnaphthalene	42 U	210	42	21	ug/kg	
91-57-6	2-Methylnaphthalene	42 U	210	42	21	ug/kg	
91-20-3	Naphthalene	42 U	210	42	21	ug/kg	
85-01-8	Phenanthrene	42 U	210	42	21	ug/kg	
129-00-0	Pyrene	42 U	210	42	21	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	70%		40-105%
321-60-8	2-Fluorobiphenyl	72%		43-107%
1718-51-0	Terphenyl-d14	92%		45-119%

U = Not detected LOD = Limit of Detection J = Indicates an estimated value
LOQ = Limit of Quantitation DL = Detection Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	SR859-16		
Lab Sample ID:	FA23189-33	Date Sampled:	03/27/15
Matrix:	SO - Soil	Date Received:	03/28/15
		Percent Solids:	78.8
Project:	HM-AZ PBR Holloman AFB; Alamogordo, NM		

Metals Analysis

Analyte	Result	LOQ	LOD	DL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Antimony [a]	2.8 U	11	2.8	0.72	mg/kg	10	03/31/15	04/02/15	LM	SW846 6010C [2]	SW846 3050B [3]
Arsenic	1.6	0.56	0.28	0.11	mg/kg	1	03/31/15	04/01/15	LM	SW846 6010C [1]	SW846 3050B [3]
Copper	4.1	1.4	0.11	0.056	mg/kg	1	03/31/15	04/01/15	LM	SW846 6010C [1]	SW846 3050B [3]
Lead [a]	2.1 J	11	2.2	0.56	mg/kg	10	03/31/15	04/02/15	LM	SW846 6010C [2]	SW846 3050B [3]
Zinc [a]	13.9	11	2.8	1.7	mg/kg	10	03/31/15	04/02/15	LM	SW846 6010C [2]	SW846 3050B [3]

(1) Instrument QC Batch: MA12310
(2) Instrument QC Batch: MA12315
(3) Prep QC Batch: MP28734

(a) Elevated reporting limit(s) due to matrix interference.

LOQ = Limit of Quantitation
LOD = Limit of Detection
DL = Detection Limit
U = Indicates a result < LOD
J = Indicates a result > = DL (MDL) but < LOQ

Accutest Laboratories

Report of Analysis

Client Sample ID:	SR859-16A		
Lab Sample ID:	FA23189-34	Date Sampled:	03/27/15
Matrix:	SO - Soil	Date Received:	03/28/15
		Percent Solids:	78.7
Project:	HM-AZ PBR Holloman AFB; Alamogordo, NM		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Solids, Percent	78.7		%	1	04/01/15 15:36	LE	SM19 2540G

RL = Reporting Limit

Raw Data: X039323.D

Accutest Laboratories

Report of Analysis

Client Sample ID:	SR859-17		
Lab Sample ID:	FA23189-35	Date Sampled:	03/27/15
Matrix:	SO - Soil	Date Received:	03/28/15
Method:	SW846 8270D SW846 3550C	Percent Solids:	78.0
Project:	HM-AZ PBR Holloman AFB; Alamogordo, NM		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	X039323.D	1	04/01/15	MV	03/31/15	OP55531	SX1828
Run #2							

	Initial Weight	Final Volume
Run #1	29.6 g	1.0 ml
Run #2		

BN PAH List

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
83-32-9	Acenaphthene	43 U	220	43	22	ug/kg	
208-96-8	Acenaphthylene	43 U	220	43	22	ug/kg	
120-12-7	Anthracene	43 U	220	43	22	ug/kg	
56-55-3	Benzo(a)anthracene	43 U	220	43	22	ug/kg	
50-32-8	Benzo(a)pyrene	43 U	220	43	22	ug/kg	
205-99-2	Benzo(b)fluoranthene	43 U	220	43	22	ug/kg	
191-24-2	Benzo(g,h,i)perylene	43 U	220	43	22	ug/kg	
207-08-9	Benzo(k)fluoranthene	43 U	220	43	22	ug/kg	
218-01-9	Chrysene	43 U	220	43	22	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	43 U	220	43	22	ug/kg	
206-44-0	Fluoranthene	43 U	220	43	22	ug/kg	
86-73-7	Fluorene	43 U	220	43	22	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	43 U	220	43	22	ug/kg	
90-12-0	1-Methylnaphthalene	43 U	220	43	22	ug/kg	
91-57-6	2-Methylnaphthalene	43 U	220	43	22	ug/kg	
91-20-3	Naphthalene	43 U	220	43	22	ug/kg	
85-01-8	Phenanthrene	43 U	220	43	22	ug/kg	
129-00-0	Pyrene	43 U	220	43	22	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	70%		40-105%
321-60-8	2-Fluorobiphenyl	74%		43-107%
1718-51-0	Terphenyl-d14	90%		45-119%

U = Not detected LOD = Limit of Detection J = Indicates an estimated value
LOQ = Limit of Quantitation DL = Detection Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	SR859-17		
Lab Sample ID:	FA23189-35	Date Sampled:	03/27/15
Matrix:	SO - Soil	Date Received:	03/28/15
		Percent Solids:	78.0
Project:	HM-AZ PBR Holloman AFB; Alamogordo, NM		

Metals Analysis

Analyte	Result	LOQ	LOD	DL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Antimony [a]	2.9 U	12	2.9	0.75	mg/kg	10	03/31/15	04/02/15	LM	SW846 6010C [2]	SW846 3050B [3]
Arsenic	3.9	0.58	0.29	0.12	mg/kg	1	03/31/15	04/01/15	LM	SW846 6010C [1]	SW846 3050B [3]
Copper	4.1	1.4	0.12	0.058	mg/kg	1	03/31/15	04/01/15	LM	SW846 6010C [1]	SW846 3050B [3]
Lead [a]	2.3 U	12	2.3	0.58	mg/kg	10	03/31/15	04/02/15	LM	SW846 6010C [2]	SW846 3050B [3]
Zinc [a]	10.0 J	12	2.9	1.7	mg/kg	10	03/31/15	04/02/15	LM	SW846 6010C [2]	SW846 3050B [3]

(1) Instrument QC Batch: MA12310
(2) Instrument QC Batch: MA12315
(3) Prep QC Batch: MP28734

(a) Elevated reporting limit(s) due to matrix interference.

LOQ = Limit of Quantitation
LOD = Limit of Detection
DL = Detection Limit
U = Indicates a result < LOD
J = Indicates a result >= DL (MDL) but < LOQ

Accutest Laboratories

Report of Analysis

Client Sample ID:	SR859-17A		
Lab Sample ID:	FA23189-36	Date Sampled:	03/27/15
Matrix:	SO - Soil	Date Received:	03/28/15
		Percent Solids:	78.9
Project:	HM-AZ PBR Holloman AFB; Alamogordo, NM		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Solids, Percent	78.9		%	1	04/01/15 15:36	LE	SM19 2540G

RL = Reporting Limit

Raw Data: X039324.D

Accutest Laboratories

Report of Analysis

Client Sample ID:	SR859-18		
Lab Sample ID:	FA23189-37	Date Sampled:	03/27/15
Matrix:	SO - Soil	Date Received:	03/28/15
Method:	SW846 8270D SW846 3550C	Percent Solids:	76.1
Project:	HM-AZ PBR Holloman AFB; Alamogordo, NM		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	X039324.D	1	04/01/15	MV	03/31/15	OP55531	SX1828
Run #2							

	Initial Weight	Final Volume
Run #1	30.0 g	1.0 ml
Run #2		

BN PAH List

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
83-32-9	Acenaphthene	44 U	220	44	22	ug/kg	
208-96-8	Acenaphthylene	44 U	220	44	22	ug/kg	
120-12-7	Anthracene	44 U	220	44	22	ug/kg	
56-55-3	Benzo(a)anthracene	44 U	220	44	22	ug/kg	
50-32-8	Benzo(a)pyrene	44 U	220	44	22	ug/kg	
205-99-2	Benzo(b)fluoranthene	44 U	220	44	22	ug/kg	
191-24-2	Benzo(g,h,i)perylene	44 U	220	44	22	ug/kg	
207-08-9	Benzo(k)fluoranthene	44 U	220	44	22	ug/kg	
218-01-9	Chrysene	44 U	220	44	22	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	44 U	220	44	22	ug/kg	
206-44-0	Fluoranthene	44 U	220	44	22	ug/kg	
86-73-7	Fluorene	44 U	220	44	22	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	44 U	220	44	22	ug/kg	
90-12-0	1-Methylnaphthalene	44 U	220	44	22	ug/kg	
91-57-6	2-Methylnaphthalene	44 U	220	44	22	ug/kg	
91-20-3	Naphthalene	44 U	220	44	22	ug/kg	
85-01-8	Phenanthrene	44 U	220	44	22	ug/kg	
129-00-0	Pyrene	44 U	220	44	22	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	71%		40-105%
321-60-8	2-Fluorobiphenyl	73%		43-107%
1718-51-0	Terphenyl-d14	95%		45-119%

U = Not detected LOD = Limit of Detection
LOQ = Limit of Quantitation DL = Detection Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	SR859-18		
Lab Sample ID:	FA23189-37	Date Sampled:	03/27/15
Matrix:	SO - Soil	Date Received:	03/28/15
		Percent Solids:	76.1
Project:	HM-AZ PBR Holloman AFB; Alamogordo, NM		

Metals Analysis

Analyte	Result	LOQ	LOD	DL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Antimony [a]	2.8 U	11	2.8	0.74	mg/kg	10	03/31/15	04/02/15	LM	SW846 6010C [2]	SW846 3050B [3]
Arsenic	1.8	0.57	0.28	0.11	mg/kg	1	03/31/15	04/01/15	LM	SW846 6010C [1]	SW846 3050B [3]
Copper	2.9	1.4	0.11	0.057	mg/kg	1	03/31/15	04/01/15	LM	SW846 6010C [1]	SW846 3050B [3]
Lead [a]	2.3 U	11	2.3	0.57	mg/kg	10	03/31/15	04/02/15	LM	SW846 6010C [2]	SW846 3050B [3]
Zinc [a]	8.0 J	11	2.8	1.7	mg/kg	10	03/31/15	04/02/15	LM	SW846 6010C [2]	SW846 3050B [3]

(1) Instrument QC Batch: MA12310
(2) Instrument QC Batch: MA12315
(3) Prep QC Batch: MP28734

(a) Elevated reporting limit(s) due to matrix interference.

LOQ = Limit of Quantitation
LOD = Limit of Detection
DL = Detection Limit
U = Indicates a result < LOD
J = Indicates a result > = DL (MDL) but < LOQ

Accutest Laboratories

Report of Analysis

Client Sample ID:	SR859-18A		
Lab Sample ID:	FA23189-38	Date Sampled:	03/27/15
Matrix:	SO - Soil	Date Received:	03/28/15
		Percent Solids:	79.9
Project:	HM-AZ PBR Holloman AFB; Alamogordo, NM		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Solids, Percent	79.9		%	1	04/01/15 15:36	LE	SM19 2540G

RL = Reporting Limit

Raw Data: X039325.D

Accutest Laboratories

Report of Analysis

Client Sample ID:	SR859-19		
Lab Sample ID:	FA23189-39	Date Sampled:	03/27/15
Matrix:	SO - Soil	Date Received:	03/28/15
Method:	SW846 8270D SW846 3550C	Percent Solids:	77.9
Project:	HM-AZ PBR Holloman AFB; Alamogordo, NM		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	X039325.D	1	04/01/15	MV	03/31/15	OP55531	SX1828
Run #2							

	Initial Weight	Final Volume
Run #1	30.0 g	1.0 ml
Run #2		

BN PAH List

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
83-32-9	Acenaphthene	43 U	210	43	21	ug/kg	
208-96-8	Acenaphthylene	43 U	210	43	21	ug/kg	
120-12-7	Anthracene	43 U	210	43	21	ug/kg	
56-55-3	Benzo(a)anthracene	43 U	210	43	21	ug/kg	
50-32-8	Benzo(a)pyrene	43 U	210	43	21	ug/kg	
205-99-2	Benzo(b)fluoranthene	43 U	210	43	21	ug/kg	
191-24-2	Benzo(g,h,i)perylene	43 U	210	43	21	ug/kg	
207-08-9	Benzo(k)fluoranthene	43 U	210	43	21	ug/kg	
218-01-9	Chrysene	43 U	210	43	21	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	43 U	210	43	21	ug/kg	
206-44-0	Fluoranthene	43 U	210	43	21	ug/kg	
86-73-7	Fluorene	43 U	210	43	21	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	43 U	210	43	21	ug/kg	
90-12-0	1-Methylnaphthalene	43 U	210	43	21	ug/kg	
91-57-6	2-Methylnaphthalene	43 U	210	43	21	ug/kg	
91-20-3	Naphthalene	43 U	210	43	21	ug/kg	
85-01-8	Phenanthrene	43 U	210	43	21	ug/kg	
129-00-0	Pyrene	43 U	210	43	21	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	81%		40-105%
321-60-8	2-Fluorobiphenyl	85%		43-107%
1718-51-0	Terphenyl-d14	107%		45-119%

U = Not detected LOD = Limit of Detection
LOQ = Limit of Quantitation DL = Detection Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	SR859-19		
Lab Sample ID:	FA23189-39	Date Sampled:	03/27/15
Matrix:	SO - Soil	Date Received:	03/28/15
		Percent Solids:	77.9
Project:	HM-AZ PBR Holloman AFB; Alamogordo, NM		

Metals Analysis

Analyte	Result	LOQ	LOD	DL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Antimony [a]	1.2 J	11	2.8	0.73	mg/kg	10	04/03/15	04/03/15	LM	SW846 6010C [1]	SW846 3050B [3]
Arsenic [a]	1.5 J	5.6	2.8	1.1	mg/kg	10	04/03/15	04/03/15	LM	SW846 6010C [1]	SW846 3050B [3]
Copper [a]	2.2 J	14	1.1	0.56	mg/kg	10	04/03/15	04/03/15	LM	SW846 6010C [1]	SW846 3050B [3]
Lead [b]	1.5 J	11	2.2	0.56	mg/kg	10	04/03/15	04/06/15	LM	SW846 6010C [2]	SW846 3050B [3]
Zinc [b]	4.4 J	11	2.8	1.7	mg/kg	10	04/03/15	04/06/15	LM	SW846 6010C [2]	SW846 3050B [3]

(1) Instrument QC Batch: MA12317
(2) Instrument QC Batch: MA12320
(3) Prep QC Batch: MP28752

(a) Sample dilution required due to difficult matrix.
(b) Elevated reporting limit(s) due to matrix interference.

LOQ = Limit of Quantitation DL = Detection Limit U = Indicates a result < LOD
LOD = Limit of Detection J = Indicates a result > = DL (MDL) but < LOQ

Accutest Laboratories

Report of Analysis

Client Sample ID:	SR859-19		
Lab Sample ID:	FA23189-39	Date Sampled:	03/27/15
Matrix:	SO - Soil	Date Received:	03/28/15
Method:	SW846 8270D SW846 3550C	Percent Solids:	77.9
Project:	HM-AZ PBR Holloman AFB; Alamogordo, NM		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	X039325.D	1	04/01/15	MV	03/31/15	OP55531	SX1828
Run #2							

	Initial Weight	Final Volume
Run #1	30.0 g	1.0 ml
Run #2		

BN PAH List

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
83-32-9	Acenaphthene	43 U	210	43	21	ug/kg	
208-96-8	Acenaphthylene	43 U	210	43	21	ug/kg	
120-12-7	Anthracene	43 U	210	43	21	ug/kg	
56-55-3	Benzo(a)anthracene	43 U	210	43	21	ug/kg	
50-32-8	Benzo(a)pyrene	43 U	210	43	21	ug/kg	
205-99-2	Benzo(b)fluoranthene	43 U	210	43	21	ug/kg	
191-24-2	Benzo(g,h,i)perylene	43 U	210	43	21	ug/kg	
207-08-9	Benzo(k)fluoranthene	43 U	210	43	21	ug/kg	
218-01-9	Chrysene	43 U	210	43	21	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	43 U	210	43	21	ug/kg	
206-44-0	Fluoranthene	43 U	210	43	21	ug/kg	
86-73-7	Fluorene	43 U	210	43	21	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	43 U	210	43	21	ug/kg	
90-12-0	1-Methylnaphthalene	43 U	210	43	21	ug/kg	
91-57-6	2-Methylnaphthalene	43 U	210	43	21	ug/kg	
91-20-3	Naphthalene	43 U	210	43	21	ug/kg	
85-01-8	Phenanthrene	43 U	210	43	21	ug/kg	
129-00-0	Pyrene	43 U	210	43	21	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	81%		40-105%
321-60-8	2-Fluorobiphenyl	85%		43-107%
1718-51-0	Terphenyl-d14	107%		45-119%

U = Not detected LOD = Limit of Detection J = Indicates an estimated value
LOQ = Limit of Quantitation DL = Detection Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	SR859-19A		
Lab Sample ID:	FA23189-40	Date Sampled:	03/27/15
Matrix:	SO - Soil	Date Received:	03/28/15
		Percent Solids:	77.0
Project:	HM-AZ PBR Holloman AFB; Alamogordo, NM		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Solids, Percent	77		%	1	04/01/15 15:36	LE	SM19 2540G

RL = Reporting Limit

Accutest Laboratories

Report of Analysis

Client Sample ID:	SR859-20		
Lab Sample ID:	FA23189-41	Date Sampled:	03/27/15
Matrix:	SO - Soil	Date Received:	03/28/15
Method:	SW846 8270D SW846 3550C	Percent Solids:	78.9
Project:	HM-AZ PBR Holloman AFB; Alamogordo, NM		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	X039326.D	1	04/01/15	MV	03/31/15	OP55531	SX1828
Run #2							

	Initial Weight	Final Volume
Run #1	30.0 g	1.0 ml
Run #2		

BN PAH List

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
83-32-9	Acenaphthene	42 U	210	42	21	ug/kg	
208-96-8	Acenaphthylene	42 U	210	42	21	ug/kg	
120-12-7	Anthracene	42 U	210	42	21	ug/kg	
56-55-3	Benzo(a)anthracene	42 U	210	42	21	ug/kg	
50-32-8	Benzo(a)pyrene	42 U	210	42	21	ug/kg	
205-99-2	Benzo(b)fluoranthene	42 U	210	42	21	ug/kg	
191-24-2	Benzo(g,h,i)perylene	42 U	210	42	21	ug/kg	
207-08-9	Benzo(k)fluoranthene	42 U	210	42	21	ug/kg	
218-01-9	Chrysene	42 U	210	42	21	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	42 U	210	42	21	ug/kg	
206-44-0	Fluoranthene	42 U	210	42	21	ug/kg	
86-73-7	Fluorene	42 U	210	42	21	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	42 U	210	42	21	ug/kg	
90-12-0	1-Methylnaphthalene	42 U	210	42	21	ug/kg	
91-57-6	2-Methylnaphthalene	42 U	210	42	21	ug/kg	
91-20-3	Naphthalene	42 U	210	42	21	ug/kg	
85-01-8	Phenanthrene	42 U	210	42	21	ug/kg	
129-00-0	Pyrene	42 U	210	42	21	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	75%		40-105%
321-60-8	2-Fluorobiphenyl	77%		43-107%
1718-51-0	Terphenyl-d14	98%		45-119%

U = Not detected LOD = Limit of Detection J = Indicates an estimated value
LOQ = Limit of Quantitation DL = Detection Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	SR859-20		
Lab Sample ID:	FA23189-41	Date Sampled:	03/27/15
Matrix:	SO - Soil	Date Received:	03/28/15
		Percent Solids:	78.9
Project:	HM-AZ PBR Holloman AFB; Alamogordo, NM		

Metals Analysis

Analyte	Result	LOQ	LOD	DL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Antimony [a]	0.76 J	10	2.6	0.67	mg/kg	10	04/03/15	04/03/15	LM	SW846 6010C [1]	SW846 3050B [3]
Arsenic [a]	1.9 J	5.2	2.6	1.0	mg/kg	10	04/03/15	04/03/15	LM	SW846 6010C [1]	SW846 3050B [3]
Copper [a]	2.6 J	13	1.0	0.52	mg/kg	10	04/03/15	04/03/15	LM	SW846 6010C [1]	SW846 3050B [3]
Lead [b]	2.2 J	10	2.1	0.52	mg/kg	10	04/03/15	04/06/15	LM	SW846 6010C [2]	SW846 3050B [3]
Zinc [b]	8.4 J	10	2.6	1.5	mg/kg	10	04/03/15	04/06/15	LM	SW846 6010C [2]	SW846 3050B [3]

(1) Instrument QC Batch: MA12317
(2) Instrument QC Batch: MA12320
(3) Prep QC Batch: MP28752

(a) Sample dilution required due to difficult matrix.
(b) Elevated reporting limit(s) due to matrix interference.

LOQ = Limit of Quantitation
LOD = Limit of Detection
DL = Detection Limit
U = Indicates a result < LOD
J = Indicates a result > = DL (MDL) but < LOQ

Accutest Laboratories

Report of Analysis

Client Sample ID:	SR859-20A		
Lab Sample ID:	FA23189-42	Date Sampled:	03/27/15
Matrix:	SO - Soil	Date Received:	03/28/15
		Percent Solids:	76.6
Project:	HM-AZ PBR Holloman AFB; Alamogordo, NM		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Solids, Percent	76.6		%	1	04/01/15 15:36	LE	SM19 2540G

RL = Reporting Limit

Accutest Laboratories

Report of Analysis

Client Sample ID:	SR859-20A		
Lab Sample ID:	FA23189-42	Date Sampled:	03/27/15
Matrix:	SO - Soil	Date Received:	03/28/15
		Percent Solids:	76.6
Project:	HM-AZ PBR Holloman AFB; Alamogordo, NM		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Solids, Percent	76 6		%	1	04/01/15 15:36	LE	SM19 2540G

RL = Reporting Limit

ACCUTEST LABORATORIES

FA23189

Raw Data: T017711.D

Accutest Laboratories

Report of Analysis

Client Sample ID:	SR859-EB1		
Lab Sample ID:	FA23189-43	Date Sampled:	03/26/15
Matrix:	AQ - Equipment Blank	Date Received:	03/28/15
Method:	SW846 8270D BY SIM SW846 3510C	Percent Solids:	n/a
Project:	HM-AZ PBR Holloman AFB; Alamogordo, NM		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	T017711.D	1	04/06/15	MG	03/31/15	OP55540	ST810
Run #2							

	Initial Volume	Final Volume
Run #1	230 ml	1.0 ml
Run #2		

BN PAH List

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
83-32-9	Acenaphthene	0.43 U	0.87	0.43	0.35	ug/l	
208-96-8	Acenaphthylene	0.43 U	0.87	0.43	0.35	ug/l	
120-12-7	Anthracene	0.43 U	0.87	0.43	0.22	ug/l	
56-55-3	Benzo(a)anthracene	0.043 U	0.17	0.043	0.035	ug/l	
50-32-8	Benzo(a)pyrene	0.043 U	0.17	0.043	0.035	ug/l	
205-99-2	Benzo(b)fluoranthene	0.043 U	0.17	0.043	0.035	ug/l	
191-24-2	Benzo(g,h,i)perylene	0.043 U	0.17	0.043	0.035	ug/l	
207-08-9	Benzo(k)fluoranthene	0.043 U	0.17	0.043	0.035	ug/l	
218-01-9	Chrysene	0.087 U	0.17	0.087	0.035	ug/l	
53-70-3	Dibenzo(a,h)anthracene	0.043 U	0.17	0.043	0.035	ug/l	
206-44-0	Fluoranthene	0.43 U	0.87	0.43	0.22	ug/l	
86-73-7	Fluorene	0.43 U	0.87	0.43	0.22	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	0.043 U	0.17	0.043	0.035	ug/l	
90-12-0	1-Methylnaphthalene	0.43 U	0.87	0.43	0.35	ug/l	
91-57-6	2-Methylnaphthalene	0.43 U	0.87	0.43	0.35	ug/l	
91-20-3	Naphthalene	0.43 U	0.87	0.43	0.35	ug/l	
85-01-8	Phenanthrene	0.43 U	0.87	0.43	0.22	ug/l	
129-00-0	Pyrene	0.43 U	0.87	0.43	0.22	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	83%		41-129%
321-60-8	2-Fluorobiphenyl	80%		41-118%
1718-51-0	Terphenyl-d14	81%		45-145%

U = Not detected LOD = Limit of Detection J = Indicates an estimated value
LOQ = Limit of Quantitation DL = Detection Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	SR859-EB1		
Lab Sample ID:	FA23189-43	Date Sampled:	03/26/15
Matrix:	AQ - Equipment Blank	Date Received:	03/28/15
		Percent Solids:	n/a
Project:	HM-AZ PBR Holloman AFB; Alamogordo, NM		

Total Metals Analysis

Analyte	Result	LOQ	LOD	DL	Units	DF	Prep	Analyzed By	Method	Prep Method
Antimony	5.0 U	6.0	5.0	1.0	ug/l	1	03/31/15	03/31/15 LM	SW846 6010C [1]	SW846 3010A [2]
Arsenic	5.0 U	10	5.0	1.3	ug/l	1	03/31/15	03/31/15 LM	SW846 6010C [1]	SW846 3010A [2]
Copper	5.5 J	25	2.0	1.0	ug/l	1	03/31/15	03/31/15 LM	SW846 6010C [1]	SW846 3010A [2]
Lead	2.0 U	5.0	2.0	1.1	ug/l	1	03/31/15	03/31/15 LM	SW846 6010C [1]	SW846 3010A [2]
Zinc	9.8 J	20	5.0	4.4	ug/l	1	03/31/15	03/31/15 LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA12307
(2) Prep QC Batch: MP28731

LOQ = Limit of Quantitation
LOD = Limit of Detection
DL = Detection Limit
U = Indicates a result < LOD
J = Indicates a result >= DL (MDL) but < LOQ

DATA QUALITY EVALUATION (DQE)
Holloman Air Force Base
TS862

Date(s) Sampled: March 29-30, 2015
Report Date: April 14, 2015
SDG No.: FA23258

SAMPLE IDs
SOIL:
FA23258-1 (TS862-1)
FA23258-2 (TS862-1A)
FA23258-3 (TS862-2)
FA23258-4 (TS862-2A)
FA23258-5 (TS862-3)
FA23258-6 (TS862-3A)
FA23258-7 (TS862-4)
FA23258-9 (TS862-4A)
FA23258-10 (TS862-5)
FA23258-11 (TS862-5A)
FA23258-12 (TS862-6)
FA23258-13 (TS862-6A)
FA23258-15 (TS862-7)
FA23258-16 (TS862-7A)
FA23258-17 (TS862-8)
FA23258-18 (TS862-8A)
FA23258-19 (TS862-9)
FA23258-20 (TS862-9A)
FA23258-21 (TS862-10)
FA23258-22 (TS862-11)
FA23258-24 (TS862-11A)
FA23258-25 (TS862-12)
FA23258-26 (TS862-12A)
FA23258-27 (TS862-13)
FA23258-28 (TS862-13A)
FA23258-29 (TS862-14)
FA23258-30 (TS862-14A)
FA23258-31 (TS862-15)
FA23258-32 (TS862-15A)
FA23258-33 (TS862-16)
FA23258-34 (TS862-16A)
FA23258-35 (TS862-17)
FA23258-36 (TS862-17A)
FA23258-37 (TS862-18)
FA23258-38 (TS862-18A)
FA23258-39 (TS862-19)

FA23258-40 (TS862-19A)
FA23258-41 (TS862-20)
FA23258-42 (TS862-20A)

FIELD DUPLICATE:
FA23258-7 (TS862-104) is a field duplicate sample for FA23258-7 (TS862-4). FA23258-23 (TS862-107) is a field duplicate sample for FA23258-15 (TS862-7).

MATRIX SPIKE/MATRIX SPIKE DUPLICATES (MS/MSD):
SDG FA23258: For metals, the laboratory used sample FA23258-5 (TS862-3) to evaluate site matrix. FPM had also designated this sample for MS/MSD analysis for SVOCs but the laboratory chose other samples to evaluate matrix: FA23258-33 (TS862-16) and FA23258-35 (TS862-17). Since there were no exceedances for these samples, no corrective action was deemed required. Since these samples were not requested by FPM in the chain-of-custody, no action was taken for the MS/MSD criterion since the site matrix is not the same as the field samples.

BLANKS:
FA23258-14 (TS862-EB1) was the equipment blank associated with SDG FA23258.

OVERVIEW:
On March 29-30, 2015, 39 soil samples, two field duplicates, one matrix spike/matrix spike duplicate, and one equipment blank were collected from site TS862, Holloman Air Force Base (AFB). The soil samples were analyzed for semivolatile organic compounds (SVOCs) by Method 8270D and metals by Method 6010C.

The samples were assessed based on the criteria specified in the *Final TS862A Former Skeet Range 2 and TS862A Jeep Target Area Skeet Range, Remedial Investigation Work Plan, Uniform Federal Policy Quality Assurance Project Plan (UFP-QAPP)* (FPM, 2015), and internal laboratory quality control (QC) criteria. Parameters evaluated included holding times, surrogates, laboratory control samples, initial and continuing calibration blanks, method blanks, field blanks, MS/MSD analysis, and initial and continuing calibration.

Table I presents the QC requirements and the criteria, the analytes that failed the criteria, result and analysis flags, and the data to which the flags are applied. Special notes applicable to specific quality control requirements are summarized below.

SUMMARY

• Notes

- It was noted that per the chain of custody, all “A” samples were held and all “SPLP” (Synthetic Precipitation Leach Procedure) analyses were held pending results of the SVOCs and metals analyses reviewed herein. No “A” samples were analyzed per FPM, and no leachate analysis was performed.

SVOCs

- It should be noted that the blank spike sample associated with equipment blank TS862-EB1 was inadvertently not spiked. The laboratory suggested that the analysis of the MS/MSD sample associated with the equipment blank could be used to assess the appropriateness of the analysis. Since the %Rec's for the MS/MSD samples were within control limits, no further action was deemed required. However, the laboratory did perform a confirmation run on the equipment blank sample to affirm the soundness of the original analysis.

- The response of the instrument indicated the %D for second source calibration verifications and/or continuing calibration verifications outside QC limits for individual analytes. The following table summarizes the exceedances:

Type of Calibration Exceedance Affected Analytes	%D	Method QC Limit	Flag Applied	Rationale
Accutest Job #FA23258: SVOCs, Continuing Calibration Verification SL3629-ICV3629				
2-Methylnaphthalene	***-21.2***	±20	None	Not associated with field samples

<u>Corrective Action</u>: Since the exceedance was not associated with any field samples, no corrective action was deemed required.

METALS

- According to the case narrative, the following samples were analyzed at dilution by Method 6010C:

Sample	Dilution
TS862-1, TS862-2, TS862-3, TS862-4, TS862-104, TS862-5, TS862-6, TS862-7, TS862-107, TS862-8, TS862-9, TS862-10, TS862-11, TS862-12, TS862-13, TS862-14, TS862-15, TS862-16, TS862-17, TS862-18, TS862-19, TS862-20	1:10

The dilution results only are reported and are used in data verification as representing original results. The case narrative describes that these samples were analyzed at dilution due to extract appearance and viscosity.

- Field duplicate samples, which are collected at the same location and at the same time using identical collection, handling, and analytical procedures, are used to assess precision of the sample collection process. The QAPP requires qualification of data for field duplicates criterion if the duplicate samples contain detected compounds with concentrations above 5x the LOQ and the relative percent differences (RPDs) between the duplicate sample results exceed RPD control limits (50% for soil samples). If either the parent or the duplicate sample is less than 5x the LOQ, then the difference between the parent and duplicate sample must be less than 2x the LOQ. "J" flags for detects and "UJ" flags for non-detects are required per the QAPP for any exceedances.

  The following table summarizes the RPDs/total differences of field duplicate sample sets TS862-4/-104 and TS862-7/-107.

Sample ID, Normal	Sample ID, Field Duplicate	Analyte	Normal Result (mg/kg)	Field Dup Result (mg/kg)	LOQ	RPD or ±difference	Flag Applied	Rationale
TS862-4	TS862-104	Antimony	1.9 J	0.97 J	9.5. 10	0.93	None	Total difference < 2x LOQ
TS862-4	TS862-104	Arsenic	0.95 J	2.6 U	4.7, 5.1	1.65	None	Total diff. < 2x LOQ
TS862-4	TS862-104	Copper	3.0 J	3.1 J	12, 13	0.1	None	Total diff. < 2x LOQ
TS862-4	TS862-104	Lead	0.86 J	0.99 J	9.5, 10	0.13	None	Total diff. < 2x LOQ
TS862-4	TS862-104	Zinc	7.0 J	8.0 J	9.5, 10	1.0	None	Total diff. < 2x LOQ
TS862-7	TS862-107	Antimony	2.5 U	1.1 J	9.8, 9.4	1.4	None	Total diff. < 2x LOQ
TS862-7	TS862-107	Arsenic	1.4 J	1.7 J	4.9, 4.7	0.3	None	Total diff. < 2x LOQ
TS862-7	TS862-107	Copper	3.1 J	4.2 J	12	1.1	None	Total diff. < 2x LOQ
TS862-7	TS862-107	Lead	1.6 J	3.3 J	9.8, 9.4	1.7	None	Total diff. < 2x LOQ
TS862-7	TS862-107	Zinc	11.9	14.8	9.8, 9.4	2.9	None	Total diff. < 2x LOQ

Corrective Action: No "J" qualifiers were applied since the total differences were within control limits.

- It is noted during the 6010C analysis the following analytes exceeded recovery limits in the MS/MSD samples (parent sample TS862-3).

MS/MSD Spike Results Job Number/ Spike Analytes	MS %Rec	MSD %Rec	QC Limits (%) (DOD QSM Limits)	RPD	Flag Applied	Rationale
Accutest Job #FA23258: Parent sample TS862-3						
Antimony	***23.2***	***23.8***	80-120 (80-120)	N/A	UJ	MS/MSD %Rec outside DOD QSM limits

Corrective Action: The recoveries were outside DOD QSM limits. "UJ" qualifiers were applied to indicate that the results (non-detect) should be considered estimated.

- An Inductively Coupled Plasma (ICP) Serial Dilution Test (1:5 dilution) is required to be run for each sample matrix that is analyzed for metals, and, according to the DOD QSM requirements, is applicable only for those analytes with concentrations greater than 50 times the LOQ. The following dilution tests indicated the percent difference (%D) between the original result and the five-times (5x) serial dilution result was greater than the ±10% QC limit:

Analyte	**Initial Sample Result (µg/L)**	**Serial Dilution Result (µg/L)**	**% Difference**	**LOQ (µg/L)**	**Post-Digestion Spike Result**	**Flag Applied**
Project #FA23258, TS862-3						
Arsenic	18.5	0	***100***	6.0	110.4	None
Lead	52.5	109	***106.7***	5.0	96.5	None
Zinc	230	323	***40.4***	20	105.6	None

The UFP QAPP requires that for the specific analytes in the parent sample associated with the dilution test that do not meet the acceptance criteria (i.e., five-fold dilution is greater than ±10% different), a "J" be applied to the results, and that they be considered estimated, to indicate a potential matrix effect. The method also allows the matrix effect to be confirmed by evaluating the results of a post-digestion spike. If the post-digestion spike addition recovery is within 75-125%, no further action is necessary, but "J" flags are still required.
Corrective Action: According to the DOD QSM, no flagging is required for serial dilution results unless the initial sample concentrations are greater than 50x the LOQ.

- The sample results included in SDG No. FA23258 are deemed 100% complete and acceptable for their intended use.

TABLE I

TABLE I
SUMMARY OF ANALYTES FAILING CRITERIA
SAMPLE DELIVERY GROUP NUMBER FA23258

QC Requirement & Criteria	Analytes Failing Criteria	Analytical Method	Result/Analysis Flags	Result Flag Applied to (Specific Analytes in)
MS/MSD %Rec less than lower control limit	Antimony	6010C	UJ	TS862-3

Accutest Laboratories

Sample Summary

FPM Remediations

Job No: FA23258

HM-AZ PBR Holloman AFB; Alamogordo, NM
Project No: 1029-13-01-H-X0853

Sample Number	Collected Date	Time By	Received	Matrix Code	Type	Client Sample ID
FA23258-1	03/29/15	10:25 BETS	04/01/15	SO	Soil	TS862-1
FA23258-2	03/29/15	10:35 BETS	04/01/15	SO	Soil	TS862-1A
FA23258-3	03/29/15	10:45 BETS	04/01/15	SO	Soil	TS862-2
FA23258-4	03/29/15	10:55 BETS	04/01/15	SO	Soil	TS862-2A
FA23258-5	03/29/15	11:15 BETS	04/01/15	SO	Soil	TS862-3
FA23258-5D	03/29/15	11:15 BETS	04/01/15	SO	Soil Dup/MSD	TS862-3
FA23258-5S	03/29/15	11:15 BETS	04/01/15	SO	Soil Matrix Spike	TS862-3
FA23258-6	03/29/15	11:25 BETS	04/01/15	SO	Soil	TS862-3A
FA23258-7	03/29/15	11:55 BETS	04/01/15	SO	Soil	TS862-4
FA23258-8	03/29/15	12:00 BETS	04/01/15	SO	Soil	TS862-104
FA23258-9	03/29/15	12:05 BETS	04/01/15	SO	Soil	TS862-4A
FA23258-10	03/29/15	12:20 BETS	04/01/15	SO	Soil	TS862-5
FA23258-11	03/29/15	12:30 BETS	04/01/15	SO	Soil	TS862-5A

Soil samples reported on a dry weight basis unless otherwise indicated on result page.

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ACCUTEST JOB #: FA23258 PAGE 1 OF 4

Accutest Quote #: | SKIFF #:

Client / Reporting Information

Company Name: FPM Remediations
Address: 884 Phoenix Dr
City: Rome State: NY Zip: 13441
Project Contact: Peter Corigliano E-mail:
Phone # 315 336-7721
Sampler(s) Name(s) (Printed)
Sampler 1: Trevor Schlosenagle Sampler 2: Brett Evans

Project Information

Project Name: Holloman AFB
Street:
City: Alamogordo State: NM
Project #: 1029-13-01
Fax #:
Client Purchase Order #:

Analytical Information

Matrix Codes: DW - Drinking Water; GW - Ground Water; WW - Water; SW - Surface Water; SO - Soil; SL - Sludge; OI - Oil; LIQ - Other Liquid; AIR - Air

Accutest Sample #	Field ID / Point of Collection	Date	Time	Sampled By:	Matrix	Total # of Bottles	Other	None	HCl	NaOH	H2SO4	HNO3	NaOH+ZnAc	DI WATER	MeOH	Metals	PAH	SPLP Metals/PAH	LAB USE ONLY
1	TS862-1	3/29	1025	TS	SO	1		/								/	/	/	
2	TS862-1a	3/29	1035	TS	SO	1		/								/	/	/	
3	TS862-2	3/29	1045	TS	SO	1		/								/	/	/	
4	TS862-2a	3/29	1055	BE	SO	1		/								/	/	/	
	TS862-3	3/29	1115	BE	SO	1		/								/	/	/	
5	TS862-3MS	3/29	1115	BE	SO	1		/								/	/	/	
	TS862-3MSD	3/29	1115	BE	SO	1		/								/	/	/	
6	TS862-3a	3/29	1125	TS	SO	1		/								/	/	/	
7	TS862-4	3/29	1155	TS	SO	1		/								/	/	/	
8	TS862-104	3/29	1200	BE	SO	1		/								/	/	/	
9	TS862-4a	3/29	1205	TS	SO	1		/								/	/	/	
10	TS862-5	3/29	1200	TS	SO	1		/								/	/	/	

Turnaround Time (Business days)

Std. 10 Business Days — Approved By: / Date/Rush Code:
X 7 Day RUSH
5 Day RUSH
3 Day EMERGENCY
2 Day EMERGENCY
1 Day EMERGENCY
Other
Emergency or Rush T/A Data Available VIA Email or Lablink

Data Deliverable Information

- ☐ COMMERCIAL "A" (RESULTS ONLY)
- ☐ COMMERCIAL "B" (RESULTS PLUS QC)
- ☐ REDT1 (EPA LEVEL 3)
- ☐ FULLT1 (EPA LEVEL 4)
- ☐ EDD'S

Comments / Remarks

HOLD "A" LABEL SAMPLES
HOLD SPLP

Sample Custody must be documented below each time samples change possession, including courier delivery.

Relinquished by Sampler/Affiliation	Date Time:	Received By/Affiliation	Relinquished By/Affiliation	Date Time:	Received By/Affiliation
1	3/31 1400	2 FP	3 FP 04-01-15	915	4
Relinquished by/Affiliation 5	Date Time:	Received By/Affiliation 6	Relinquished By/Affiliation 7	Date Time:	Received By/Affiliation 8

Lab Use Only: Custody Seal in Place: Y N Temp Blank Provided: Y N Preserved Where Applicable: Y N Total # of Coolers: ___ Cooler Temperature (s) Celsius: 26, 24

5.1 5

FA23258: Chain of Custody
Page 1 of 6

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ACCUTEST JOB #: FA23258 PAGE 2 OF 4

Accutest Quote # | SKIFF #

Client / Reporting Information

Company Name: FPM Remediations
Address: 584 Phoenix Dr
City: Rome State: NY Zip: 13441
Project Contact: Peter Corigliano E-mail
Phone # 315 336-7721
Sampler(s) Name(s) (Printed)
Sampler 1: Trevor Schlosanagle Sampler 2: Brett Evans

Project Information

Project Name: Holloman AFB
Street
City Alamogordo State NM
Project # 1029-13-01
Fax #
Client Purchase Order #

Analytical Information

Matrix Codes: DW - Drinking Water; GW - Ground Water; WW - Water; SW - Surface Water; SO - Soil; SL- Sludge; OI - Oil; LIQ - Other Liquid; AIR - Air

Accutest Sample #	Field ID / Point of Collection	Collection DATE	Collection TIME	Sampled By:	Matrix	Total # of Bottles	Other	None	HCl	NaOH	HNO3	H2SO4	NaOH/ZnAc	DI Water	MeOH	Metals	PAH	SPLP Metals/PAH	LAB USE ONLY
11	TS862-5	3/29	1230	TS	SO	1		1								1	1	1	
12	TS862-6	3/29	1240	BE	SO	1		1								1	1	1	
13	TS862-6a	3/29	1250	BE	SO	1		1								1	1	1	
14	TS862-EB1	3/29	1300	BE	W	3		2	1							1	2		
15	TS862-7	3/30	950	BE	SO	1		1								1	1	1	
16	TS862-7a	3/30	1010	TS	SO	1		1								1	1	1	
17	TS862-8	3/30	1020	BE	SO	1		1								1	1	1	
18	TS862-8a	3/30	1030	TS	SO	1		1								1	1	1	
19	TS862-9	3/30	1040	BE	SO	1		1								1	1	1	
20	TS862-9a	3/30	1050	BE	SO	1		1								1	1	1	
21	TS862-10	3/30	1100	TS	SO	1		1								1	1	1	
22	TS862-11	3/30	1110	TS	SO	1		1								1	1	1	

Turnaround Time (Business days)

Std. 10 Business Days — Approved By: / Date/Rush Code:
X 7 Day RUSH
5 Day RUSH
3 Day EMERGENCY
2 Day EMERGENCY
1 Day EMERGENCY
Other
Emergency or Rush T/A Data Available VIA Email or Lablink

Data Deliverable Information

- [ ] COMMERCIAL "A" (RESULTS ONLY)
- [ ] COMMERCIAL "B" (RESULTS PLUS QC)
- [ ] REDT1 (EPA LEVEL 3)
- [ ] FULLT1 (EPA LEVEL 4)
- [ ] EDD'S

Comments / Remarks

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HOLD SPLP

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1	3/31 1400	2 FP	3 FP 04-01-15	915	4
Relinquished by/Affiliation	Date Time:	Received By/Affiliation	Relinquished By/Affiliation	Date Time:	Received By/Affiliation
5		6	7		8

Lab Use Only: Custody Seal in Place: Y N Temp Blank Provided: Y N Preserved Where Applicable: Y N Total # of Coolers: ___ Cooler Temperature (s) Celsius: ___

5.1 5

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ACCUTEST JOB #: FA23258 PAGE 3 OF 4

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Accutest Sample #	Field ID / Point of Collection	Collection Date	Collection Time	Sampled By	Matrix	Total # of Bottles	Other	None	HCl	NaOH	HNO3	NaOH+ZnAc	DI Water	MeOH	Metals	PAH	SPLP Metals/PAH	LAB USE ONLY
23	TS862-10	3/30	955	TS	SO	1		/							/	/	/	
24	TS862-11	3/30	1120	TS	SO	1		/							/	/	/	
25	TS862-12	3/30	1130	TS	SO	1		/							/	/	/	
26	TS862-12A	3/30	1140	TS	SO	1		/							/	/	/	
27	TS862-13	3/30	1200	TS	SO	1		/							/	/	/	
28	TS862-13A	3/30	1215	TS	SO	1		/							/	/	/	
29	TS862-14	3/30	1230	BE	SO	1		/							/	/	/	
30	TS862-14A	3/30	1245	BE	SO	1		/							/	/	/	
31	TS862-15	3/30	1300	BE	SO	1		/							/	/	/	
32	TS862-15A	3/30	1315	BE	SO	1		/							/	/	/	
33	TS862-16	3/30	1330	BE	SO	1		/							/	/	/	
34	TS862-16A	3/30	1345	BE	SO	1		/							/	/	/	

Turnaround Time (Business days)

Std. 10 Business Days
X 7 Day RUSH
5 Day RUSH
3 Day EMERGENCY
2 Day EMERGENCY
1 Day EMERGENCY
Other
Approved By: / Date/Rush Code:
Emergency or Rush T/A Data Available VIA Email or Lablink

Data Deliverable Information

- [ ] COMMERCIAL "A" (RESULTS ONLY)
- [ ] COMMERCIAL "B" (RESULTS PLUS QC)
- [ ] REDT1 (EPA LEVEL 3)
- [ ] FULLT1 (EPA LEVEL 4)
- [ ] EDD'S

Comments / Remarks

HOLD "A" LABEL SAMPLES
HOLD SPLP

Sample Custody must be documented below each time samples change possession, including courier delivery.

Relinquished by Sampler/Affiliation	Date Time:	Received By/Affiliation	Relinquished By/Affiliation	Date Time:	Received By/Affiliation
1	3/31 1400	2 FX	3 FX 04-01-15	210	4
Relinquished by/Affiliation 5	Date Time:	Received By/Affiliation 6	Relinquished By/Affiliation 7	Date Time:	Received By/Affiliation 8

Lab Use Only: Custody Seal In Place: Y N Temp Blank Provided: Y N Preserved Where Applicable: Y N Total # of Coolers: Cooler Temperature (s) Celsius:

5.1 5

FA23258: Chain of Custody
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ACCUTEST LABORATORIES

Accutest Laboratories Southeast
Chain of Custody

4405 Vineland Road, Suite C-15 Orlando, Fl 32811
TEL. 407-425-6700 FAX: 407-425-0707
www.accutest.com

FA23258

ACCUTEST JOB #: PAGE 4 OF 4

Accutest Quote # | SKIFF #

Client / Reporting Information

Company Name: FPM Remediations
Address: 884 Phoenix Dr
City: Rome State: NY Zip: 13441
Project Contact: Peter Corigliano E-mail
Phone # 315 336-7721
Sampler(s) Name(s) (Printed)
Sampler 1: Trevor Schlosenagle Sampler 2: Brett Evans

Project Information

Project Name: Holloman AFB
Street
City Alamogordo State NM
Project # 1029-13-01
Fax #
Client Purchase Order #

Analytical Information

Matrix Codes: DW - Drinking Water; GW - Ground Water; WW - Water; SW - Surface Water; SO - Soil; SL- Sludge; OI - Oil; LIQ - Other Liquid; AIR - Air

Accutest Sample #	Field ID / Point of Collection	Collection DATE	Collection TIME	SAMPLED BY:	MATRIX	TOTAL # OF BOTTLES	OTHER	NONE	HCl	HNO3	H2SO4	NaOH/ZnAc	DI WATER	MeOH	Metals	PAH	SPLP Metals/PAH	LAB USE ONLY
35	TS862-17	3/30	1400	TS	SO	1		✓							✓	✓	✓	
36	TS862-17m	3/30	1415	TS	SO	1		✓							✓	✓	✓	
37	TS862-18	3/30	1430	TS	SO	1		✓							✓	✓	✓	
38	TS862-18m	3/30	1445	TS	SO	1		✓							✓	✓	✓	
39	TS862-19	3/30	1500	BE	SO	1		✓							✓	✓	✓	
40	TS862-19m	3/30	1515	BE	SO	1		✓							✓	✓	✓	
41	TS862-20	3/30	1530	BE	SO	1		✓							✓	✓	✓	
42	TS862-20m	3/30	1545	BE	SO	1		✓							✓	✓	✓	

Turnaround Time (Business days)

Std. 10 Business Days
X 7 Day RUSH
6 Day RUSH
3 Day EMERGENCY
2 Day EMERGENCY
1 Day EMERGENCY
Other
Approved By: / Date/Rush Code:
Emergency or Rush T/A Data Available VIA Email or Lablink

Data Deliverable Information

- [ ] COMMERCIAL "A" (RESULTS ONLY)
- [ ] COMMERCIAL "B" (RESULTS PLUS QC)
- [ ] REDT1 (EPA LEVEL 3)
- [ ] FULLT1 (EPA LEVEL 4)
- [ ] EDD'S

Comments / Remarks

HOLD "A" LABEL SAMPLES
HOLD SPLP

Sample Custody must be documented below each time samples change possession, including courier delivery.

Relinquished by Sampler/Affiliation	Date Time:	Received By/Affiliation	Relinquished By/Affiliation	Date Time:	Received By/Affiliation
1	3/31 1900	2 FP	3 FP 04-01-15	915	4
Relinquished by/Affiliation	Date Time:	Received By/Affiliation	Relinquished By/Affiliation	Date Time:	Received By/Affiliation
5		6	7		8

Lab Use Only : Custody Seal in Place: Y N Temp Blank Provided: Y N Preserved Where Applicable: Y N Total # of Coolers: Cooler Temperature (s) Celsius:

5.1 5

FA23258: Chain of Custody
Page 4 of 6

Sample Summary
(continued)

FPM Remediations

Job No: FA23258

HM-AZ PBR Holloman AFB; Alamogordo, NM
Project No: 1029-13-01-H-X0853

Sample Number	Collected Date	Time By	Received	Matrix Code	Type	Client Sample ID
FA23258-12	03/29/15	12:40 BETS	04/01/15	SO	Soil	TS862-6
FA23258-13	03/29/15	12:50 BETS	04/01/15	SO	Soil	TS862-6A
FA23258-14	03/29/15	13:00 BETS	04/01/15	AQ	Equipment Blank	TS862-EB1
FA23258-15	03/30/15	09:50 BETS	04/01/15	SO	Soil	TS862-7
FA23258-16	03/30/15	10:10 BETS	04/01/15	SO	Soil	TS862-7A
FA23258-17	03/30/15	10:20 BETS	04/01/15	SO	Soil	TS862-8
FA23258-18	03/30/15	10:30 BETS	04/01/15	SO	Soil	TS862-8A
FA23258-19	03/30/15	10:40 BETS	04/01/15	SO	Soil	TS862-9
FA23258-20	03/30/15	10:50 BETS	04/01/15	SO	Soil	TS862-9A
FA23258-21	03/30/15	11:00 BETS	04/01/15	SO	Soil	TS862-10
FA23258-22	03/30/15	11:10 BETS	04/01/15	SO	Soil	TS862-11
FA23258-23	03/30/15	09:55 BETS	04/01/15	SO	Soil	TS862-107
FA23258-24	03/30/15	11:20 BETS	04/01/15	SO	Soil	TS862-11A

Soil samples reported on a dry weight basis unless otherwise indicated on result page.

Sample Summary
(continued)

FPM Remediations

Job No: FA23258

HM-AZ PBR Holloman AFB; Alamogordo, NM
Project No: 1029-13-01-H-X0853

Sample Number	Collected Date	Time By	Received	Matrix Code	Matrix Type	Client Sample ID
FA23258-25	03/30/15	11:30 BETS	04/01/15	SO	Soil	TS862-12
FA23258-26	03/30/15	11:40 BETS	04/01/15	SO	Soil	TS862-12A
FA23258-27	03/30/15	12:00 BETS	04/01/15	SO	Soil	TS862-13
FA23258-28	03/30/15	12:15 BETS	04/01/15	SO	Soil	TS862-13A
FA23258-29	03/30/15	12:30 BETS	04/01/15	SO	Soil	TS862-14
FA23258-30	03/30/15	12:45 BETS	04/01/15	SO	Soil	TS862-14A
FA23258-31	03/30/15	13:00 BETS	04/01/15	SO	Soil	TS862-15
FA23258-32	03/30/15	13:15 BETS	04/01/15	SO	Soil	TS862-15A
FA23258-33	03/30/15	13:30 BETS	04/01/15	SO	Soil	TS862-16
FA23258-34	03/30/15	13:45 BETS	04/01/15	SO	Soil	TS862-16A
FA23258-35	03/30/15	14:00 BETS	04/01/15	SO	Soil	TS862-17
FA23258-36	03/30/15	14:15 BETS	04/01/15	SO	Soil	TS862-17A
FA23258-37	03/30/15	14:30 BETS	04/01/15	SO	Soil	TS862-18

Soil samples reported on a dry weight basis unless otherwise indicated on result page.

Sample Summary
(continued)

FPM Remediations

Job No: FA23258

HM-AZ PBR Holloman AFB; Alamogordo, NM
Project No: 1029-13-01-H-X0853

Sample Number	Collected Date	Time By	Received	Matrix Code	Type	Client Sample ID
FA23258-38	03/30/15	14:45 BETS	04/01/15	SO	Soil	TS862-18A
FA23258-39	03/30/15	15:00 BETS	04/01/15	SO	Soil	TS862-19
FA23258-40	03/30/15	15:15 BETS	04/01/15	SO	Soil	TS862-19A
FA23258-41	03/30/15	15:30 BETS	04/01/15	SO	Soil	TS862-20
FA23258-42	03/30/15	15:45 BETS	04/01/15	SO	Soil	TS862-20A

Soil samples reported on a dry weight basis unless otherwise indicated on result page.

SAMPLE DELIVERY GROUP CASE NARRATIVE

Client: FPM Remediations **Job No:** FA23258

Site: HM-AZ PBR Holloman AFB; Alamogordo, NM **Report Date** 4/13/2015 8:14:59 PM

42 Samples were collected between 03/29/2015 and 03/30/2015 and were received at Accutest SE on 04/01/2015 properly preserved, at 2.4 Deg. C and intact. These Samples received an Accutest job number of FA23258. A listing of the Laboratory Sample ID, Client Sample ID and dates of collection are presented in the Results Summary Section of this report.

Except as noted below, all method specified calibrations and quality control performance criteria were met for this job. For more information, please refer to QC summary pages.

Extractables by GCMS By Method SW846 8270D

Matrix: SO **Batch ID:** OP55582

All samples were extracted within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) FA23258-33MS, FA23258-33MSD were used as the QC samples indicated.

Matrix: SO **Batch ID:** OP55584

All samples were extracted within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) FA23258-35MS, FA23258-35MSD were used as the QC samples indicated.

Extractables by GCMS By Method SW846 8270D BY SIM

Matrix: AQ **Batch ID:** OP55593

All samples were extracted within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) FA23271-13MS, FA23271-13MSD were used as the QC samples indicated.

RPD(s) for MSD for 1-Methylnaphthalene, 2-Methylnaphthalene, Acenaphthene, Acenaphthylene, Benzo(g,h,i)perylene, Dibenzo(a,h)anthracene, Indeno(1,2,3-cd)pyrene, Naphthalene are outside control limits for sample OP55593-MSD. RPD calculated from Percent Recovery.

OP55593-BS: Target analytes not spiked, see associated MS/MSD for recovery information.

FA23258-14: Associated BS not spiked, recoveries with limits in MS/MSD. Re-extracted for confirmation.

OP55593-MS for 1-Methylnaphthalene: Recovery corrected for double spike.

OP55593-MS for Pyrene: Recovery corrected for double spike.

OP55593-MS for Chrysene: Recovery corrected for double spike.

OP55593-MS for Phenanthrene: Recovery corrected for double spike.

OP55593-MS for 2-Methylnaphthalene: Recovery corrected for double spike.

OP55593-MS for Naphthalene: Recovery corrected for double spike.

OP55593-MS for Indeno(1,2,3-cd)pyrene: Recovery corrected for double spike.

OP55593-MS for Fluorene: Recovery corrected for double spike.

OP55593-MS for Fluoranthene: Recovery corrected for double spike.

OP55593-MS for Dibenzo(a,h)anthracene: Recovery corrected for double spike.

OP55593-MS for Benzo(k)fluoranthene: Recovery corrected for double spike.

OP55593-MS for Benzo(g,h,i)perylene: Recovery corrected for double spike.

OP55593-MS for Benzo(b)fluoranthene: Recovery corrected for double spike.

OP55593-MS for Benzo(a)pyrene: Recovery corrected for double spike.

Extractables by GCMS By Method SW846 8270D BY SIM

Matrix: AQ **Batch ID:** OP55593

OP55593-MS for Anthracene: Recovery corrected for double spike.

OP55593-MS for Acenaphthylene: Recovery corrected for double spike.

OP55593-MS for Acenaphthene: Recovery corrected for double spike.

OP55593-MS for Benzo(a)anthracene: Recovery corrected for double spike.

OP55593-MSD for Benzo(b)fluoranthene: RPD calcuated from Percent Recovery.

OP55593-MSD for Benzo(k)fluoranthene: RPD calcuated from Percent Recovery.

OP55593-MSD for Anthracene: RPD calcuated from Percent Recovery.

OP55593-MSD for Chrysene: RPD calcuated from Percent Recovery.

OP55593-MSD for Fluoranthene: RPD calcuated from Percent Recovery.

OP55593-MSD for Phenanthrene: RPD calcuated from Percent Recovery.

OP55593-MSD for Benzo(a)anthracene: RPD calcuated from Percent Recovery.

OP55593-MSD for Benzo(a)pyrene: RPD calcuated from Percent Recovery.

OP55593-MSD for Pyrene: RPD calcuated from Percent Recovery.

OP55593-MSD for Fluorene: RPD calcuated from Percent Recovery.

Matrix: AQ **Batch ID:** OP55650

FA23258-14: Confirmation run.

Metals By Method SW846 6010C

Matrix: AQ **Batch ID:** MP28764

All samples were digested within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) FA23126-1DUP, FA23126-1MS, FA23126-1MSD, FA23126-1PS, FA23126-1SDL were used as the QC samples for metals.

RPD(s) for Duplicate for Antimony, Lead are outside control limits for sample MP28764-D1. RPD acceptable due to low duplicate and sample concentrations.

RPD(s) for Serial Dilution for Antimony, Arsenic, Lead, Zinc are outside control limits for sample MP28764-SD1. Percent difference acceptable due to low initial sample concentration (< 50 times IDL).

Matrix: SO **Batch ID:** MP28752

All samples were digested within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) FA23258-5DUP, FA23258-5MS, FA23258-5MSD, FA23258-5PS. FA23258-5SDL were used as the QC samples for metals.

Matrix Spike / Matrix Spike Duplicate Recovery(s) for Antimony are outside control limits. Probable cause is due to matrix interference. For method performance in a clean matrix, refer to Blank Spike.

RPD(s) for Duplicate for Arsenic are outside control limits for sample MP28752-D1. RPD acceptable due to low duplicate and sample concentrations.

RPD(s) for Serial Dilution for Arsenic, Lead, Zinc are outside control limits for sample MP28752-SD1. Percent difference acceptable due to low initial sample concentration (< 50 times IDL).

FA23258-1 for Antimony: Sample dilution required due to difficult matrix.

FA23258-1 for Arsenic: Sample dilution required due to difficult matrix.

FA23258-1 for Copper: Sample dilution required due to difficult matrix.

FA23258-1 for Lead: Sample dilution required due to difficult matrix.

FA23258-1 for Zinc: Sample dilution required due to difficult matrix.

FA23258-3 for Antimony: Sample dilution required due to difficult matrix.

FA23258-3 for Copper: Sample dilution required due to difficult matrix.

FA23258-3 for Arsenic: Sample dilution required due to difficult matrix.

FA23258-3 for Lead: Sample dilution required due to difficult matrix.

FA23258-3 for Zinc: Sample dilution required due to difficult matrix.

Metals By Method SW846 6010C

Matrix: SO **Batch ID:** MP28752

FA23258-5 for Antimony: Sample dilution required due to difficult matrix.
FA23258-5 for Arsenic: Sample dilution required due to difficult matrix.
FA23258-5 for Copper: Sample dilution required due to difficult matrix.
FA23258-5 for Lead: Sample dilution required due to difficult matrix.
FA23258-5 for Zinc: Sample dilution required due to difficult matrix.
FA23258-7 for Antimony: Sample dilution required due to difficult matrix.
FA23258-7 for Arsenic: Sample dilution required due to difficult matrix.
FA23258-7 for Copper: Sample dilution required due to difficult matrix.
FA23258-7 for Lead: Sample dilution required due to difficult matrix.
FA23258-7 for Zinc: Sample dilution required due to difficult matrix.
FA23258-8 for Antimony: Sample dilution required due to difficult matrix.
FA23258-8 for Arsenic: Sample dilution required due to difficult matrix.
FA23258-8 for Copper: Sample dilution required due to difficult matrix.
FA23258-8 for Lead: Sample dilution required due to difficult matrix.
FA23258-8 for Zinc: Sample dilution required due to difficult matrix.
FA23258-10 for Lead: Sample dilution required due to difficult matrix.
FA23258-10 for Copper: Sample dilution required due to difficult matrix.
FA23258-10 for Zinc: Sample dilution required due to difficult matrix.
FA23258-10 for Arsenic: Sample dilution required due to difficult matrix.
FA23258-10 for Antimony: Sample dilution required due to difficult matrix.
FA23258-12 for Antimony: Sample dilution required due to difficult matrix.
FA23258-12 for Arsenic: Sample dilution required due to difficult matrix.
FA23258-12 for Copper: Sample dilution required due to difficult matrix.
FA23258-12 for Lead: Sample dilution required due to difficult matrix.
FA23258-12 for Zinc: Sample dilution required due to difficult matrix.
FA23258-15 for Antimony: Sample dilution required due to difficult matrix.
FA23258-15 for Arsenic: Sample dilution required due to difficult matrix.
FA23258-15 for Copper: Sample dilution required due to difficult matrix.
FA23258-15 for Lead: Sample dilution required due to difficult matrix.
FA23258-15 for Zinc: Sample dilution required due to difficult matrix.
FA23258-17 for Copper: Sample dilution required due to difficult matrix.
FA23258-17 for Arsenic: Sample dilution required due to difficult matrix.
FA23258-17 for Lead: Sample dilution required due to difficult matrix.
FA23258-17 for Antimony: Sample dilution required due to difficult matrix.
FA23258-17 for Zinc: Sample dilution required due to difficult matrix.
FA23258-19 for Antimony: Sample dilution required due to difficult matrix.
FA23258-19 for Lead: Sample dilution required due to difficult matrix.
FA23258-19 for Copper: Sample dilution required due to difficult matrix.
FA23258-19 for Zinc: Sample dilution required due to difficult matrix.
FA23258-19 for Arsenic: Sample dilution required due to difficult matrix.
FA23258-21 for Antimony: Sample dilution required due to difficult matrix.
FA23258-21 for Arsenic: Sample dilution required due to difficult matrix.
FA23258-21 for Lead: Sample dilution required due to difficult matrix.
FA23258-21 for Copper: Sample dilution required due to difficult matrix.
FA23258-21 for Zinc: Sample dilution required due to difficult matrix.
FA23258-22 for Antimony: Sample dilution required due to difficult matrix.
FA23258-22 for Arsenic: Sample dilution required due to difficult matrix.
FA23258-22 for Copper: Sample dilution required due to difficult matrix.

Metals By Method SW846 6010C

Matrix: SO **Batch ID:** MP28752

FA23258-22 for Zinc: Sample dilution required due to difficult matrix.
FA23258-22 for Lead: Sample dilution required due to difficult matrix.
FA23258-23 for Antimony: Sample dilution required due to difficult matrix.
FA23258-23 for Arsenic: Sample dilution required due to difficult matrix.
FA23258-23 for Copper: Sample dilution required due to difficult matrix.
FA23258-23 for Zinc: Sample dilution required due to difficult matrix.
FA23258-23 for Lead: Sample dilution required due to difficult matrix.
FA23258-25 for Arsenic: Sample dilution required due to difficult matrix.
FA23258-25 for Antimony: Sample dilution required due to difficult matrix.
FA23258-25 for Copper: Sample dilution required due to difficult matrix.
FA23258-25 for Lead: Sample dilution required due to difficult matrix.
FA23258-25 for Zinc: Sample dilution required due to difficult matrix.
FA23258-27 for Copper: Sample dilution required due to difficult matrix.
FA23258-27 for Arsenic: Sample dilution required due to difficult matrix.
FA23258-27 for Antimony: Sample dilution required due to difficult matrix.
FA23258-27 for Lead: Sample dilution required due to difficult matrix.
FA23258-27 for Zinc: Sample dilution required due to difficult matrix.
FA23258-29 for Antimony: Sample dilution required due to difficult matrix.
FA23258-29 for Copper: Sample dilution required due to difficult matrix.
FA23258-29 for Arsenic: Sample dilution required due to difficult matrix.
FA23258-29 for Lead: Sample dilution required due to difficult matrix.
FA23258-29 for Zinc: Sample dilution required due to difficult matrix.
FA23258-31 for Arsenic: Sample dilution required due to difficult matrix.
FA23258-31 for Antimony: Sample dilution required due to difficult matrix.
FA23258-31 for Copper: Sample dilution required due to difficult matrix.
FA23258-31 for Lead: Sample dilution required due to difficult matrix.
FA23258-31 for Zinc: Sample dilution required due to difficult matrix.
FA23258-33 for Antimony: Sample dilution required due to difficult matrix.
FA23258-33 for Arsenic: Sample dilution required due to difficult matrix.
FA23258-33 for Copper: Sample dilution required due to difficult matrix.
FA23258-33 for Lead: Sample dilution required due to difficult matrix.
FA23258-33 for Zinc: Sample dilution required due to difficult matrix.

Matrix: SO **Batch ID:** MP28755

All samples were digested within the recommended method holding time.
All samples were analyzed within the recommended method holding time.
All method blanks for this batch meet method specific criteria.
Sample(s) FA23275-8DUP, FA23275-8MS, FA23275-8MSD, FA23275-8PS, FA23275-8SDL were used as the QC samples for metals.
Matrix Spike / Matrix Spike Duplicate Recovery(s) for Antimony are outside control limits. Probable cause is due to matrix interference. For method performance in a clean matrix, refer to Blank Spike.
RPD(s) for Duplicate for Zinc are outside control limits for sample MP28755-D1. High RPD due to possible sample non-homogeneity.
RPD(s) for Serial Dilution for Arsenic are outside control limits for sample MP28755-SD1. Percent difference acceptable due to low initial sample concentration (< 50 times IDL).
MP28755-SD1 for Copper: Serial dilution indicates possible matrix interference.
MP28755-SD1 for Zinc: Serial dilution indicates possible matrix interference.
FA23258-35 for Arsenic: Sample dilution required due to difficult matrix.
FA23258-35 for Antimony: Sample dilution required due to difficult matrix.

Metals By Method SW846 6010C

Matrix: SO **Batch ID:** MP28755

FA23258-35 for Copper: Sample dilution required due to difficult matrix.
FA23258-35 for Lead: Sample dilution required due to difficult matrix.
FA23258-35 for Zinc: Sample dilution required due to difficult matrix.
FA23258-37 for Antimony: Sample dilution required due to difficult matrix.
FA23258-37 for Arsenic: Sample dilution required due to difficult matrix.
FA23258-37 for Copper: Sample dilution required due to difficult matrix.
FA23258-37 for Lead: Sample dilution required due to difficult matrix.
FA23258-37 for Zinc: Sample dilution required due to difficult matrix.
FA23258-39 for Arsenic: Sample dilution required due to difficult matrix.
FA23258-39 for Antimony: Sample dilution required due to difficult matrix.
FA23258-39 for Copper: Sample dilution required due to difficult matrix.
FA23258-39 for Lead: Sample dilution required due to difficult matrix.
FA23258-39 for Zinc: Sample dilution required due to difficult matrix.
FA23258-41 for Arsenic: Sample dilution required due to difficult matrix.
FA23258-41 for Copper: Sample dilution required due to difficult matrix.
FA23258-41 for Lead: Sample dilution required due to difficult matrix.
FA23258-41 for Zinc: Sample dilution required due to difficult matrix.
FA23258-41 for Antimony: Sample dilution required due to difficult matrix.

Wet Chemistry By Method SM19 2540G

Matrix: SO **Batch ID:** GN65779

Sample(s) FA23258-1DUP, FA23258-2DUP were used as the QC samples for Solids, Percent.

Matrix: SO **Batch ID:** GN65781

Sample(s) FA23258-20DUP, FA23258-21DUP were used as the QC samples for Solids, Percent.

Matrix: SO **Batch ID:** GN65782

Sample(s) FA23258-39DUP was used as the QC samples for Solids, Percent.

Accutest Laboratories Southeast (ALSE) certifies that this report meets the project requirements for analytical data produced for the samples as received at ALSE and as stated on the COC. ALSE certifies that the data meets the Data Quality Objectives for precision, accuracy and completeness as specified in the ALSE Quality Manual except as noted above. This report is to be used in its entirety. ALSE is not responsible for any assumptions of data quality if partial data packages are used

Narrative prepared by:

Date: April 13, 2015

Lovelie Metzgar, QA Officer (signature on file)

Accutest Laboratories

Report of Analysis

Client Sample ID:	TS862-1		
Lab Sample ID:	FA23258-1	Date Sampled:	03/29/15
Matrix:	SO - Soil	Date Received:	04/01/15
Method:	SW846 8270D SW846 3550C	Percent Solids:	81.7
Project:	HM-AZ PBR Holloman AFB; Alamogordo, NM		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	L0681750.D	1	04/06/15	MV	04/03/15	OP55582	SL3631
Run #2							

	Initial Weight	Final Volume
Run #1	30.2 g	1.0 ml
Run #2		

BN PAH List

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
83-32-9	Acenaphthene	41 U	200	41	20	ug/kg	
208-96-8	Acenaphthylene	41 U	200	41	20	ug/kg	
120-12-7	Anthracene	41 U	200	41	20	ug/kg	
56-55-3	Benzo(a)anthracene	41 U	200	41	20	ug/kg	
50-32-8	Benzo(a)pyrene	41 U	200	41	20	ug/kg	
205-99-2	Benzo(b)fluoranthene	41 U	200	41	20	ug/kg	
191-24-2	Benzo(g,h,i)perylene	41 U	200	41	20	ug/kg	
207-08-9	Benzo(k)fluoranthene	41 U	200	41	20	ug/kg	
218-01-9	Chrysene	41 U	200	41	20	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	41 U	200	41	20	ug/kg	
206-44-0	Fluoranthene	41 U	200	41	20	ug/kg	
86-73-7	Fluorene	41 U	200	41	20	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	41 U	200	41	20	ug/kg	
90-12-0	1-Methylnaphthalene	41 U	200	41	20	ug/kg	
91-57-6	2-Methylnaphthalene	41 U	200	41	20	ug/kg	
91-20-3	Naphthalene	41 U	200	41	20	ug/kg	
85-01-8	Phenanthrene	41 U	200	41	20	ug/kg	
129-00-0	Pyrene	41 U	200	41	20	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	70%		40-105%
321-60-8	2-Fluorobiphenyl	71%		43-107%
1718-51-0	Terphenyl-d14	82%		45-119%

U = Not detected LOD = Limit of Detection J = Indicates an estimated value
LOQ = Limit of Quantitation DL = Detection Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	TS862-1		
Lab Sample ID:	FA23258-1	Date Sampled:	03/29/15
Matrix:	SO - Soil	Date Received:	04/01/15
		Percent Solids:	81.7
Project:	HM-AZ PBR Holloman AFB; Alamogordo, NM		

Metals Analysis

Analyte	Result	LOQ	LOD	DL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Antimony [a]	1.4 J	12	2.9	0.76	mg/kg	10	04/03/15	04/03/15	LM	SW846 6010C [1]	SW846 3050B [2]
Arsenic [a]	1.7 J	5.8	2.9	1.2	mg/kg	10	04/03/15	04/03/15	LM	SW846 6010C [1]	SW846 3050B [2]
Copper [a]	2.5 J	15	1.2	0.58	mg/kg	10	04/03/15	04/03/15	LM	SW846 6010C [1]	SW846 3050B [2]
Lead [a]	1.7 J	12	2.3	0.58	mg/kg	10	04/03/15	04/03/15	LM	SW846 6010C [1]	SW846 3050B [2]
Zinc [a]	8.8 J	12	2.9	1.7	mg/kg	10	04/03/15	04/03/15	LM	SW846 6010C [1]	SW846 3050B [2]

(1) Instrument QC Batch: MA12317
(2) Prep QC Batch: MP28752

(a) Sample dilution required due to difficult matrix.

LOQ = Limit of Quantitation DL = Detection Limit U = Indicates a result < LOD
LOD = Limit of Detection J = Indicates a result >= DL (MDL) but < LOQ

Accutest Laboratories

Report of Analysis

Client Sample ID:	TS862-1A		
Lab Sample ID:	FA23258-2	Date Sampled:	03/29/15
Matrix:	SO - Soil	Date Received:	04/01/15
		Percent Solids:	83.6
Project:	HM-AZ PBR Holloman AFB; Alamogordo, NM		

4.2 4

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Solids, Percent	83.6		%	1	04/02/15 16:34	JC	SM19 2540G

RL = Reporting Limit

Accutest Laboratories

Report of Analysis

Client Sample ID:	TS862-2		
Lab Sample ID:	FA23258-3	Date Sampled:	03/29/15
Matrix:	SO - Soil	Date Received:	04/01/15
Method:	SW846 8270D SW846 3550C	Percent Solids:	81.9
Project:	HM-AZ PBR Holloman AFB; Alamogordo, NM		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	L0681751.D	1	04/06/15	MV	04/03/15	OP55582	SL3631
Run #2							

	Initial Weight	Final Volume
Run #1	29.8 g	1.0 ml
Run #2		

BN PAH List

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
83-32-9	Acenaphthene	41 U	200	41	20	ug/kg	
208-96-8	Acenaphthylene	41 U	200	41	20	ug/kg	
120-12-7	Anthracene	41 U	200	41	20	ug/kg	
56-55-3	Benzo(a)anthracene	41 U	200	41	20	ug/kg	
50-32-8	Benzo(a)pyrene	41 U	200	41	20	ug/kg	
205-99-2	Benzo(b)fluoranthene	41 U	200	41	20	ug/kg	
191-24-2	Benzo(g,h,i)perylene	41 U	200	41	20	ug/kg	
207-08-9	Benzo(k)fluoranthene	41 U	200	41	20	ug/kg	
218-01-9	Chrysene	41 U	200	41	20	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	41 U	200	41	20	ug/kg	
206-44-0	Fluoranthene	41 U	200	41	20	ug/kg	
86-73-7	Fluorene	41 U	200	41	20	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	41 U	200	41	20	ug/kg	
90-12-0	1-Methylnaphthalene	41 U	200	41	20	ug/kg	
91-57-6	2-Methylnaphthalene	41 U	200	41	20	ug/kg	
91-20-3	Naphthalene	41 U	200	41	20	ug/kg	
85-01-8	Phenanthrene	41 U	200	41	20	ug/kg	
129-00-0	Pyrene	41 U	200	41	20	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	66%		40-105%
321-60-8	2-Fluorobiphenyl	71%		43-107%
1718-51-0	Terphenyl-d14	81%		45-119%

U = Not detected LOD = Limit of Detection J = Indicates an estimated value
LOQ = Limit of Quantitation DL = Detection Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	TS862-2		
Lab Sample ID:	FA23258-3	Date Sampled:	03/29/15
Matrix:	SO - Soil	Date Received:	04/01/15
		Percent Solids:	81.9
Project:	HM-AZ PBR Holloman AFB; Alamogordo, NM		

4.3

4

Metals Analysis

Analyte	Result	LOQ	LOD	DL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Antimony [a]	0.98 J	11	2.8	0.72	mg/kg	10	04/03/15	04/03/15	LM	SW846 6010C [1]	SW846 3050B [2]
Arsenic [a]	2.8 U	5.6	2.8	1.1	mg/kg	10	04/03/15	04/03/15	LM	SW846 6010C [1]	SW846 3050B [2]
Copper [a]	2.0 J	14	1.1	0.56	mg/kg	10	04/03/15	04/03/15	LM	SW846 6010C [1]	SW846 3050B [2]
Lead [a]	0.80 J	11	2.2	0.56	mg/kg	10	04/03/15	04/03/15	LM	SW846 6010C [1]	SW846 3050B [2]
Zinc [a]	5.0 J	11	2.8	1.7	mg/kg	10	04/03/15	04/03/15	LM	SW846 6010C [1]	SW846 3050B [2]

(1) Instrument QC Batch: MA12317
(2) Prep QC Batch: MP28752

(a) Sample dilution required due to difficult matrix.

LOQ = Limit of Quantitation DL = Detection Limit U = Indicates a result < LOD
LOD = Limit of Detection J = Indicates a result >= DL (MDL) but < LOQ

Accutest Laboratories

Report of Analysis

Client Sample ID:	TS862-2A		
Lab Sample ID:	FA23258-4	Date Sampled:	03/29/15
Matrix:	SO - Soil	Date Received:	04/01/15
		Percent Solids:	81.3
Project:	HM-AZ PBR Holloman AFB; Alamogordo, NM		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Solids, Percent	81.3		%	1	04/02/15 16:34	JC	SM19 2540G

RL = Reporting Limit

Accutest Laboratories

Report of Analysis

Client Sample ID:	TS862-3		
Lab Sample ID:	FA23258-5	Date Sampled:	03/29/15
Matrix:	SO - Soil	Date Received:	04/01/15
Method:	SW846 8270D SW846 3550C	Percent Solids:	82.9
Project:	HM-AZ PBR Holloman AFB; Alamogordo, NM		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	L0681752.D	1	04/06/15	MV	04/03/15	OP55582	SL3631
Run #2							

	Initial Weight	Final Volume
Run #1	29.8 g	1.0 ml
Run #2		

BN PAH List

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
83-32-9	Acenaphthene	40 U	200	40	20	ug/kg	
208-96-8	Acenaphthylene	40 U	200	40	20	ug/kg	
120-12-7	Anthracene	40 U	200	40	20	ug/kg	
56-55-3	Benzo(a)anthracene	40 U	200	40	20	ug/kg	
50-32-8	Benzo(a)pyrene	40 U	200	40	20	ug/kg	
205-99-2	Benzo(b)fluoranthene	40 U	200	40	20	ug/kg	
191-24-2	Benzo(g,h,i)perylene	40 U	200	40	20	ug/kg	
207-08-9	Benzo(k)fluoranthene	40 U	200	40	20	ug/kg	
218-01-9	Chrysene	40 U	200	40	20	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	40 U	200	40	20	ug/kg	
206-44-0	Fluoranthene	40 U	200	40	20	ug/kg	
86-73-7	Fluorene	40 U	200	40	20	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	40 U	200	40	20	ug/kg	
90-12-0	1-Methylnaphthalene	40 U	200	40	20	ug/kg	
91-57-6	2-Methylnaphthalene	40 U	200	40	20	ug/kg	
91-20-3	Naphthalene	40 U	200	40	20	ug/kg	
85-01-8	Phenanthrene	40 U	200	40	20	ug/kg	
129-00-0	Pyrene	40 U	200	40	20	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	75%		40-105%
321-60-8	2-Fluorobiphenyl	76%		43-107%
1718-51-0	Terphenyl-d14	86%		45-119%

U = Not detected LOD = Limit of Detection
LOQ = Limit of Quantitation DL = Detection Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

4.5
4

Client Sample ID:	TS862-3		
Lab Sample ID:	FA23258-5	Date Sampled:	03/29/15
Matrix:	SO - Soil	Date Received:	04/01/15
		Percent Solids:	82.9
Project:	HM-AZ PBR Holloman AFB; Alamogordo, NM		

Metals Analysis

Analyte	Result	LOQ	LOD	DL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Antimony [a]	2.5 U J	9.8	2.5	0.64	mg/kg	10	04/03/15	04/06/15	LM	SW846 6010C [1]	SW846 3050B [2]
Arsenic [a]	2.5 U	4.9	2.5	0.98	mg/kg	10	04/03/15	04/06/15	LM	SW846 6010C [1]	SW846 3050B [2]
Copper [a]	3.2 J	12	0.98	0.49	mg/kg	10	04/03/15	04/06/15	LM	SW846 6010C [1]	SW846 3050B [2]
Lead [a]	2.6 J	9.8	2.0	0.49	mg/kg	10	04/03/15	04/06/15	LM	SW846 6010C [1]	SW846 3050B [2]
Zinc [a]	11.3	9.8	2.5	1.5	mg/kg	10	04/03/15	04/06/15	LM	SW846 6010C [1]	SW846 3050B [2]

(1) Instrument QC Batch: MA12320
(2) Prep QC Batch: MP28752

(a) Sample dilution required due to difficult matrix.

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LOQ = Limit of Quantitation
LOD = Limit of Detection
DL = Detection Limit
U = Indicates a result < LOD
J = Indicates a result >= DL (MDL) but < LOQ

Accutest Laboratories

Report of Analysis

Client Sample ID:	TS862-3A		
Lab Sample ID:	FA23258-6	Date Sampled:	03/29/15
Matrix:	SO - Soil	Date Received:	04/01/15
		Percent Solids:	82.7
Project:	HM-AZ PBR Holloman AFB; Alamogordo, NM		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Solids, Percent	82.7		%	1	04/02/15 16:34	JC	SM19 2540G

RL = Reporting Limit

Raw Data: L0681762.D

Accutest Laboratories

Report of Analysis

4.7 4

Client Sample ID:	TS862-4		
Lab Sample ID:	FA23258-7	Date Sampled:	03/29/15
Matrix:	SO - Soil	Date Received:	04/01/15
Method:	SW846 8270D SW846 3550C	Percent Solids:	85.3
Project:	HM-AZ PBR Holloman AFB; Alamogordo, NM		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	L0681762.D	1	04/07/15	MV	04/03/15	OP55582	SL3632
Run #2							

	Initial Weight	Final Volume
Run #1	29.7 g	1.0 ml
Run #2		

BN PAH List

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
83-32-9	Acenaphthene	39 U	200	39	20	ug/kg	
208-96-8	Acenaphthylene	39 U	200	39	20	ug/kg	
120-12-7	Anthracene	39 U	200	39	20	ug/kg	
56-55-3	Benzo(a)anthracene	39 U	200	39	20	ug/kg	
50-32-8	Benzo(a)pyrene	39 U	200	39	20	ug/kg	
205-99-2	Benzo(b)fluoranthene	39 U	200	39	20	ug/kg	
191-24-2	Benzo(g,h,i)perylene	39 U	200	39	20	ug/kg	
207-08-9	Benzo(k)fluoranthene	39 U	200	39	20	ug/kg	
218-01-9	Chrysene	39 U	200	39	20	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	39 U	200	39	20	ug/kg	
206-44-0	Fluoranthene	39 U	200	39	20	ug/kg	
86-73-7	Fluorene	39 U	200	39	20	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	39 U	200	39	20	ug/kg	
90-12-0	1-Methylnaphthalene	39 U	200	39	20	ug/kg	
91-57-6	2-Methylnaphthalene	39 U	200	39	20	ug/kg	
91-20-3	Naphthalene	39 U	200	39	20	ug/kg	
85-01-8	Phenanthrene	39 U	200	39	20	ug/kg	
129-00-0	Pyrene	39 U	200	39	20	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	66%		40-105%
321-60-8	2-Fluorobiphenyl	67%		43-107%
1718-51-0	Terphenyl-d14	83%		45-119%

U = Not detected LOD = Limit of Detection J = Indicates an estimated value
LOQ = Limit of Quantitation DL = Detection Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	TS862-4		
Lab Sample ID:	FA23258-7	Date Sampled:	03/29/15
Matrix:	SO - Soil	Date Received:	04/01/15
		Percent Solids:	85.3
Project:	HM-AZ PBR Holloman AFB; Alamogordo, NM		

4.7 4

Metals Analysis

Analyte	Result	LOQ	LOD	DL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Antimony [a]	1.9 J	9.5	2.4	0.61	mg/kg	10	04/03/15	04/03/15	LM	SW846 6010C [1]	SW846 3050B [2]
Arsenic [a]	0.95 J	4.7	2.4	0.95	mg/kg	10	04/03/15	04/03/15	LM	SW846 6010C [1]	SW846 3050B [2]
Copper [a]	3.0 J	12	0.95	0.47	mg/kg	10	04/03/15	04/03/15	LM	SW846 6010C [1]	SW846 3050B [2]
Lead [a]	0.86 J	9.5	1.9	0.47	mg/kg	10	04/03/15	04/03/15	LM	SW846 6010C [1]	SW846 3050B [2]
Zinc [a]	7.0 J	9.5	2.4	1.4	mg/kg	10	04/03/15	04/03/15	LM	SW846 6010C [1]	SW846 3050B [2]

(1) Instrument QC Batch: MA12317
(2) Prep QC Batch: MP28752

(a) Sample dilution required due to difficult matrix.

LOQ = Limit of Quantitation DL = Detection Limit U = Indicates a result < LOD
LOD = Limit of Detection J = Indicates a result > = DL (MDL) but < LOQ

Accutest Laboratories

Report of Analysis

Client Sample ID:	TS862-104		
Lab Sample ID:	FA23258-8	Date Sampled:	03/29/15
Matrix:	SO - Soil	Date Received:	04/01/15
Method:	SW846 8270D SW846 3550C	Percent Solids:	84.3
Project:	HM-AZ PBR Holloman AFB; Alamogordo, NM		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	L0681763.D	1	04/07/15	MV	04/03/15	OP55582	SL3632
Run #2							

	Initial Weight	Final Volume
Run #1	29.8 g	1.0 ml
Run #2		

BN PAH List

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
83-32-9	Acenaphthene	40 U	200	40	20	ug/kg	
208-96-8	Acenaphthylene	40 U	200	40	20	ug/kg	
120-12-7	Anthracene	40 U	200	40	20	ug/kg	
56-55-3	Benzo(a)anthracene	40 U	200	40	20	ug/kg	
50-32-8	Benzo(a)pyrene	40 U	200	40	20	ug/kg	
205-99-2	Benzo(b)fluoranthene	40 U	200	40	20	ug/kg	
191-24-2	Benzo(g,h,i)perylene	40 U	200	40	20	ug/kg	
207-08-9	Benzo(k)fluoranthene	40 U	200	40	20	ug/kg	
218-01-9	Chrysene	40 U	200	40	20	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	40 U	200	40	20	ug/kg	
206-44-0	Fluoranthene	40 U	200	40	20	ug/kg	
86-73-7	Fluorene	40 U	200	40	20	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	40 U	200	40	20	ug/kg	
90-12-0	1-Methylnaphthalene	40 U	200	40	20	ug/kg	
91-57-6	2-Methylnaphthalene	40 U	200	40	20	ug/kg	
91-20-3	Naphthalene	40 U	200	40	20	ug/kg	
85-01-8	Phenanthrene	40 U	200	40	20	ug/kg	
129-00-0	Pyrene	40 U	200	40	20	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	71%		40-105%
321-60-8	2-Fluorobiphenyl	71%		43-107%
1718-51-0	Terphenyl-d14	87%		45-119%

U = Not detected LOD = Limit of Detection J = Indicates an estimated value
LOQ = Limit of Quantitation DL = Detection Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	TS862-104		
Lab Sample ID:	FA23258-8	Date Sampled:	03/29/15
Matrix:	SO - Soil	Date Received:	04/01/15
		Percent Solids:	84.3
Project:	HM-AZ PBR Holloman AFB; Alamogordo, NM		

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Metals Analysis

Analyte	Result	LOQ	LOD	DL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Antimony [a]	0.97 J	10	2.6	0.66	mg/kg	10	04/03/15	04/03/15	LM	SW846 6010C [1]	SW846 3050B [2]
Arsenic [a]	2.6 U	5.1	2.6	1.0	mg/kg	10	04/03/15	04/03/15	LM	SW846 6010C [1]	SW846 3050B [2]
Copper [a]	3.1 J	13	1.0	0.51	mg/kg	10	04/03/15	04/03/15	LM	SW846 6010C [1]	SW846 3050B [2]
Lead [a]	0.99 J	10	2.0	0.51	mg/kg	10	04/03/15	04/03/15	LM	SW846 6010C [1]	SW846 3050B [2]
Zinc [a]	8.0 J	10	2.6	1.5	mg/kg	10	04/03/15	04/03/15	LM	SW846 6010C [1]	SW846 3050B [2]

(1) Instrument QC Batch: MA12317
(2) Prep QC Batch: MP28752

(a) Sample dilution required due to difficult matrix.

LOQ = Limit of Quantitation DL = Detection Limit U = Indicates a result < LOD
LOD = Limit of Detection J = Indicates a result > = DL (MDL) but < LOQ

Accutest Laboratories

Report of Analysis

Client Sample ID:	TS862-4A		
Lab Sample ID:	FA23258-9	Date Sampled:	03/29/15
Matrix:	SO - Soil	Date Received:	04/01/15
		Percent Solids:	86.2
Project:	HM-AZ PBR Holloman AFB; Alamogordo, NM		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Solids, Percent	86.2		%	1	04/02/15 16:34	JC	SM19 2540G

RL = Reporting Limit

Accutest Laboratories

Report of Analysis

Client Sample ID:	TS862-5		
Lab Sample ID:	FA23258-10	Date Sampled:	03/29/15
Matrix:	SO - Soil	Date Received:	04/01/15
Method:	SW846 8270D SW846 3550C	Percent Solids:	81.6
Project:	HM-AZ PBR Holloman AFB; Alamogordo, NM		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	L0681764.D	1	04/07/15	MV	04/03/15	OP55582	SL3632
Run #2							

	Initial Weight	Final Volume
Run #1	29.7 g	1.0 ml
Run #2		

BN PAH List

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
83-32-9	Acenaphthene	41 U	210	41	21	ug/kg	
208-96-8	Acenaphthylene	41 U	210	41	21	ug/kg	
120-12-7	Anthracene	41 U	210	41	21	ug/kg	
56-55-3	Benzo(a)anthracene	41 U	210	41	21	ug/kg	
50-32-8	Benzo(a)pyrene	41 U	210	41	21	ug/kg	
205-99-2	Benzo(b)fluoranthene	41 U	210	41	21	ug/kg	
191-24-2	Benzo(g,h,i)perylene	41 U	210	41	21	ug/kg	
207-08-9	Benzo(k)fluoranthene	41 U	210	41	21	ug/kg	
218-01-9	Chrysene	41 U	210	41	21	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	41 U	210	41	21	ug/kg	
206-44-0	Fluoranthene	41 U	210	41	21	ug/kg	
86-73-7	Fluorene	41 U	210	41	21	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	41 U	210	41	21	ug/kg	
90-12-0	1-Methylnaphthalene	41 U	210	41	21	ug/kg	
91-57-6	2-Methylnaphthalene	41 U	210	41	21	ug/kg	
91-20-3	Naphthalene	41 U	210	41	21	ug/kg	
85-01-8	Phenanthrene	41 U	210	41	21	ug/kg	
129-00-0	Pyrene	41 U	210	41	21	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	72%		40-105%
321-60-8	2-Fluorobiphenyl	68%		43-107%
1718-51-0	Terphenyl-d14	91%		45-119%

U = Not detected LOD = Limit of Detection J = Indicates an estimated value
LOQ = Limit of Quantitation DL = Detection Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	TS862-5		
Lab Sample ID:	FA23258-10	Date Sampled:	03/29/15
Matrix:	SO - Soil	Date Received:	04/01/15
		Percent Solids:	81.6
Project:	HM-AZ PBR Holloman AFB; Alamogordo, NM		

Metals Analysis

Analyte	Result	LOQ	LOD	DL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Antimony [a]	1.9 J	9.6	2.4	0.63	mg/kg	10	04/03/15	04/03/15	LM	SW846 6010C [1]	SW846 3050B [2]
Arsenic [a]	2.4 U	4.8	2.4	0.96	mg/kg	10	04/03/15	04/03/15	LM	SW846 6010C [1]	SW846 3050B [2]
Copper [a]	2.7 J	12	0.96	0.48	mg/kg	10	04/03/15	04/03/15	LM	SW846 6010C [1]	SW846 3050B [2]
Lead [a]	1.4 J	9.6	1.9	0.48	mg/kg	10	04/03/15	04/03/15	LM	SW846 6010C [1]	SW846 3050B [2]
Zinc [a]	7.4 J	9.6	2.4	1.4	mg/kg	10	04/03/15	04/03/15	LM	SW846 6010C [1]	SW846 3050B [2]

(1) Instrument QC Batch: MA12317
(2) Prep QC Batch: MP28752

(a) Sample dilution required due to difficult matrix.

LOQ = Limit of Quantitation
LOD = Limit of Detection
DL = Detection Limit
U = Indicates a result < LOD
J = Indicates a result >= DL (MDL) but < LOQ

Accutest Laboratories

Report of Analysis

Client Sample ID:	TS862-5A		
Lab Sample ID:	FA23258-11	Date Sampled:	03/29/15
Matrix:	SO - Soil	Date Received:	04/01/15
		Percent Solids:	81.4
Project:	HM-AZ PBR Holloman AFB; Alamogordo, NM		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Solids, Percent	81.4		%	1	04/02/15 16:34	JC	SM19 2540G

RL = Reporting Limit

Accutest Laboratories

Report of Analysis

Client Sample ID:	TS862-6		
Lab Sample ID:	FA23258-12	Date Sampled:	03/29/15
Matrix:	SO - Soil	Date Received:	04/01/15
Method:	SW846 8270D SW846 3550C	Percent Solids:	84.6
Project:	HM-AZ PBR Holloman AFB; Alamogordo, NM		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	L0681765.D	1	04/07/15	MV	04/03/15	OP55582	SL3632
Run #2							

	Initial Weight	Final Volume
Run #1	29.8 g	1.0 ml
Run #2		

BN PAH List

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
83-32-9	Acenaphthene	40 U	200	40	20	ug/kg	
208-96-8	Acenaphthylene	40 U	200	40	20	ug/kg	
120-12-7	Anthracene	40 U	200	40	20	ug/kg	
56-55-3	Benzo(a)anthracene	40 U	200	40	20	ug/kg	
50-32-8	Benzo(a)pyrene	40 U	200	40	20	ug/kg	
205-99-2	Benzo(b)fluoranthene	40 U	200	40	20	ug/kg	
191-24-2	Benzo(g,h,i)perylene	40 U	200	40	20	ug/kg	
207-08-9	Benzo(k)fluoranthene	40 U	200	40	20	ug/kg	
218-01-9	Chrysene	40 U	200	40	20	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	40 U	200	40	20	ug/kg	
206-44-0	Fluoranthene	40 U	200	40	20	ug/kg	
86-73-7	Fluorene	40 U	200	40	20	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	40 U	200	40	20	ug/kg	
90-12-0	1-Methylnaphthalene	40 U	200	40	20	ug/kg	
91-57-6	2-Methylnaphthalene	40 U	200	40	20	ug/kg	
91-20-3	Naphthalene	40 U	200	40	20	ug/kg	
85-01-8	Phenanthrene	40 U	200	40	20	ug/kg	
129-00-0	Pyrene	40 U	200	40	20	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	75%		40-105%
321-60-8	2-Fluorobiphenyl	72%		43-107%
1718-51-0	Terphenyl-d14	93%		45-119%

U = Not detected LOD = Limit of Detection
LOQ = Limit of Quantitation DL = Detection Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	TS862-6		
Lab Sample ID:	FA23258-12	Date Sampled:	03/29/15
Matrix:	SO - Soil	Date Received:	04/01/15
		Percent Solids:	84.6
Project:	HM-AZ PBR Holloman AFB; Alamogordo, NM		

Metals Analysis

Analyte	Result	LOQ	LOD	DL	Units	DF	Prep	Analyzed By		Method	Prep Method
Antimony [a]	1.1 J	8.8	2.2	0.57	mg/kg	10	04/03/15	04/03/15	LM	SW846 6010C [1]	SW846 3050B [2]
Arsenic [a]	1.4 J	4.4	2.2	0.88	mg/kg	10	04/03/15	04/03/15	LM	SW846 6010C [1]	SW846 3050B [2]
Copper [a]	3.6 J	11	0.88	0.44	mg/kg	10	04/03/15	04/03/15	LM	SW846 6010C [1]	SW846 3050B [2]
Lead [a]	2.7 J	8.8	1.8	0.44	mg/kg	10	04/03/15	04/03/15	LM	SW846 6010C [1]	SW846 3050B [2]
Zinc [a]	14.2	8.8	2.2	1.3	mg/kg	10	04/03/15	04/03/15	LM	SW846 6010C [1]	SW846 3050B [2]

(1) Instrument QC Batch: MA12317
(2) Prep QC Batch: MP28752

(a) Sample dilution required due to difficult matrix.

LOQ = Limit of Quantitation
LOD = Limit of Detection
DL = Detection Limit
U = Indicates a result < LOD
J = Indicates a result >= DL (MDL) but < LOQ

Accutest Laboratories

Report of Analysis

Client Sample ID:	TS862-6A		
Lab Sample ID:	FA23258-13	Date Sampled:	03/29/15
Matrix:	SO - Soil	Date Received:	04/01/15
		Percent Solids:	86.5
Project:	HM-AZ PBR Holloman AFB; Alamogordo, NM		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Solids, Percent	86.5		%	1	04/02/15 16:34	JC	SM19 2540G

RL = Reporting Limit

Accutest Laboratories

Report of Analysis

Client Sample ID:	TS862-EB1		
Lab Sample ID:	FA23258-14	Date Sampled:	03/29/15
Matrix:	AQ - Equipment Blank	Date Received:	04/01/15
Method:	SW846 8270D BY SIM SW846 3510C	Percent Solids:	n/a
Project:	HM-AZ PBR Holloman AFB; Alamogordo, NM		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	T017742.D	1	04/07/15	MG	04/03/15	OP55593	ST811
Run #2 [b]	T017852.D	1	04/10/15	MG	04/08/15	OP55650	ST813

	Initial Volume	Final Volume
Run #1	230 ml	1.0 ml
Run #2	240 ml	1.0 ml

BN PAH List

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
83-32-9	Acenaphthene	0.43 U	0.87	0.43	0.35	ug/l	
208-96-8	Acenaphthylene	0.43 U	0.87	0.43	0.35	ug/l	
120-12-7	Anthracene	0.43 U	0.87	0.43	0.22	ug/l	
56-55-3	Benzo(a)anthracene	0.043 U	0.17	0.043	0.035	ug/l	
50-32-8	Benzo(a)pyrene	0.043 U	0.17	0.043	0.035	ug/l	
205-99-2	Benzo(b)fluoranthene	0.043	0.17	0.043	0.035	ug/l	J
191-24-2	Benzo(g,h,i)perylene	0.041	0.17	0.043	0.035	ug/l	J
207-08-9	Benzo(k)fluoranthene	0.036	0.17	0.043	0.035	ug/l	J
218-01-9	Chrysene	0.087 U	0.17	0.087	0.035	ug/l	
53-70-3	Dibenzo(a,h)anthracene	0.043 U	0.17	0.043	0.035	ug/l	
206-44-0	Fluoranthene	0.43 U	0.87	0.43	0.22	ug/l	
86-73-7	Fluorene	0.43 U	0.87	0.43	0.22	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	0.038	0.17	0.043	0.035	ug/l	J
90-12-0	1-Methylnaphthalene	0.43 U	0.87	0.43	0.35	ug/l	
91-57-6	2-Methylnaphthalene	0.43 U	0.87	0.43	0.35	ug/l	
91-20-3	Naphthalene	0.43 U	0.87	0.43	0.35	ug/l	
85-01-8	Phenanthrene	0.43 U	0.87	0.43	0.22	ug/l	
129-00-0	Pyrene	0.43 U	0.87	0.43	0.22	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	89%	64%	41-129%
321-60-8	2-Fluorobiphenyl	93%	64%	41-118%
1718-51-0	Terphenyl-d14	112%	84%	45-145%

(a) Associated BS not spiked, recoveries with limits in MS/MSD. Re-extracted for confirmation.
(b) Confirmation run.

U = Not detected LOD = Limit of Detection J = Indicates an estimated value
LOQ = Limit of Quantitation DL = Detection Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	TS862-EB1		
Lab Sample ID:	FA23258-14	Date Sampled:	03/29/15
Matrix:	AQ - Equipment Blank	Date Received:	04/01/15
		Percent Solids:	n/a
Project:	HM-AZ PBR Holloman AFB; Alamogordo, NM		

Total Metals Analysis

Analyte	Result	LOQ	LOD	DL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Antimony	1.8 J	6.0	5.0	1.0	ug/l	1	04/07/15	04/07/15	LM	SW846 6010C [1]	SW846 3010A [2]
Arsenic	5.0 U	10	5.0	1.3	ug/l	1	04/07/15	04/07/15	LM	SW846 6010C [1]	SW846 3010A [2]
Copper	6.0 J	25	2.0	1.0	ug/l	1	04/07/15	04/07/15	LM	SW846 6010C [1]	SW846 3010A [2]
Lead	2.0 U	5.0	2.0	1.1	ug/l	1	04/07/15	04/07/15	LM	SW846 6010C [1]	SW846 3010A [2]
Zinc	8.8 J	20	5.0	4.4	ug/l	1	04/07/15	04/07/15	LM	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA12324
(2) Prep QC Batch: MP28764

LOQ = Limit of Quantitation
LOD = Limit of Detection
DL = Detection Limit
U = Indicates a result < LOD
J = Indicates a result >= DL (MDL) but < LOQ

Accutest Laboratories

Report of Analysis

Client Sample ID:	TS862-7		
Lab Sample ID:	FA23258-15	Date Sampled:	03/30/15
Matrix:	SO - Soil	Date Received:	04/01/15
Method:	SW846 8270D SW846 3550C	Percent Solids:	87.8
Project:	HM-AZ PBR Holloman AFB; Alamogordo, NM		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	L0681766.D	1	04/07/15	MV	04/03/15	OP55582	SL3632
Run #2							

	Initial Weight	Final Volume
Run #1	30.4 g	1.0 ml
Run #2		

BN PAH List

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
83-32-9	Acenaphthene	37 U	190	37	19	ug/kg	
208-96-8	Acenaphthylene	37 U	190	37	19	ug/kg	
120-12-7	Anthracene	37 U	190	37	19	ug/kg	
56-55-3	Benzo(a)anthracene	37 U	190	37	19	ug/kg	
50-32-8	Benzo(a)pyrene	37 U	190	37	19	ug/kg	
205-99-2	Benzo(b)fluoranthene	37 U	190	37	19	ug/kg	
191-24-2	Benzo(g,h,i)perylene	37 U	190	37	19	ug/kg	
207-08-9	Benzo(k)fluoranthene	37 U	190	37	19	ug/kg	
218-01-9	Chrysene	37 U	190	37	19	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	37 U	190	37	19	ug/kg	
206-44-0	Fluoranthene	37 U	190	37	19	ug/kg	
86-73-7	Fluorene	37 U	190	37	19	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	37 U	190	37	19	ug/kg	
90-12-0	1-Methylnaphthalene	37 U	190	37	19	ug/kg	
91-57-6	2-Methylnaphthalene	37 U	190	37	19	ug/kg	
91-20-3	Naphthalene	37 U	190	37	19	ug/kg	
85-01-8	Phenanthrene	37 U	190	37	19	ug/kg	
129-00-0	Pyrene	37 U	190	37	19	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	76%		40-105%
321-60-8	2-Fluorobiphenyl	73%		43-107%
1718-51-0	Terphenyl-d14	89%		45-119%

U = Not detected LOD = Limit of Detection J = Indicates an estimated value
LOQ = Limit of Quantitation DL = Detection Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	TS862-7		
Lab Sample ID:	FA23258-15	Date Sampled:	03/30/15
Matrix:	SO - Soil	Date Received:	04/01/15
		Percent Solids:	87.8
Project:	HM-AZ PBR Holloman AFB; Alamogordo, NM		

Metals Analysis

Analyte	Result	LOQ	LOD	DL	Units	DF	Prep	Analyzed By	Method	Prep Method
Antimony [a]	2.5 U	9.8	2.5	0.64	mg/kg	10	04/03/15	04/03/15 LM	SW846 6010C [1]	SW846 3050B [2]
Arsenic [a]	1.4 J	4.9	2.5	0.98	mg/kg	10	04/03/15	04/03/15 LM	SW846 6010C [1]	SW846 3050B [2]
Copper [a]	3.1 J	12	0.98	0.49	mg/kg	10	04/03/15	04/03/15 LM	SW846 6010C [1]	SW846 3050B [2]
Lead [a]	1.6 J	9.8	2.0	0.49	mg/kg	10	04/03/15	04/03/15 LM	SW846 6010C [1]	SW846 3050B [2]
Zinc [a]	11.9	9.8	2.5	1.5	mg/kg	10	04/03/15	04/03/15 LM	SW846 6010C [1]	SW846 3050B [2]

(1) Instrument QC Batch: MA12317
(2) Prep QC Batch: MP28752

(a) Sample dilution required due to difficult matrix.

LOQ = Limit of Quantitation
LOD = Limit of Detection
DL = Detection Limit
U = Indicates a result < LOD
J = Indicates a result >= DL (MDL) but < LOQ

Accutest Laboratories

Report of Analysis

Client Sample ID:	TS862-7A		
Lab Sample ID:	FA23258-16	Date Sampled:	03/30/15
Matrix:	SO - Soil	Date Received:	04/01/15
		Percent Solids:	87.7
Project:	HM-AZ PBR Holloman AFB; Alamogordo, NM		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Solids, Percent	87.7		%	1	04/02/15 16:34	JC	SM19 2540G

RL = Reporting Limit

Accutest Laboratories

Report of Analysis

Client Sample ID:	TS862-8		
Lab Sample ID:	FA23258-17	Date Sampled:	03/30/15
Matrix:	SO - Soil	Date Received:	04/01/15
Method:	SW846 8270D SW846 3550C	Percent Solids:	83.5
Project:	HM-AZ PBR Holloman AFB; Alamogordo, NM		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	L0681767.D	1	04/07/15	MV	04/03/15	OP55582	SL3632
Run #2							

	Initial Weight	Final Volume
Run #1	29.9 g	1.0 ml
Run #2		

BN PAH List

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
83-32-9	Acenaphthene	40 U	200	40	20	ug/kg	
208-96-8	Acenaphthylene	40 U	200	40	20	ug/kg	
120-12-7	Anthracene	40 U	200	40	20	ug/kg	
56-55-3	Benzo(a)anthracene	40 U	200	40	20	ug/kg	
50-32-8	Benzo(a)pyrene	40 U	200	40	20	ug/kg	
205-99-2	Benzo(b)fluoranthene	40 U	200	40	20	ug/kg	
191-24-2	Benzo(g,h,i)perylene	40 U	200	40	20	ug/kg	
207-08-9	Benzo(k)fluoranthene	40 U	200	40	20	ug/kg	
218-01-9	Chrysene	40 U	200	40	20	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	40 U	200	40	20	ug/kg	
206-44-0	Fluoranthene	40 U	200	40	20	ug/kg	
86-73-7	Fluorene	40 U	200	40	20	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	40 U	200	40	20	ug/kg	
90-12-0	1-Methylnaphthalene	40 U	200	40	20	ug/kg	
91-57-6	2-Methylnaphthalene	40 U	200	40	20	ug/kg	
91-20-3	Naphthalene	40 U	200	40	20	ug/kg	
85-01-8	Phenanthrene	40 U	200	40	20	ug/kg	
129-00-0	Pyrene	40 U	200	40	20	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	81%		40-105%
321-60-8	2-Fluorobiphenyl	77%		43-107%
1718-51-0	Terphenyl-d14	96%		45-119%

U = Not detected LOD = Limit of Detection J = Indicates an estimated value
LOQ = Limit of Quantitation DL = Detection Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	TS862-8		
Lab Sample ID:	FA23258-17	Date Sampled:	03/30/15
Matrix:	SO - Soil	Date Received:	04/01/15
		Percent Solids:	83.5
Project:	HM-AZ PBR Holloman AFB; Alamogordo, NM		

4.17

4

Metals Analysis

Analyte	Result	LOQ	LOD	DL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Antimony [a]	0.84 J	11	2.7	0.70	mg/kg	10	04/03/15	04/03/15	LM	SW846 6010C [1]	SW846 3050B [2]
Arsenic [a]	1.3 J	5.4	2.7	1.1	mg/kg	10	04/03/15	04/03/15	LM	SW846 6010C [1]	SW846 3050B [2]
Copper [a]	3.8 J	13	1.1	0.54	mg/kg	10	04/03/15	04/03/15	LM	SW846 6010C [1]	SW846 3050B [2]
Lead [a]	2.2 J	11	2.2	0.54	mg/kg	10	04/03/15	04/03/15	LM	SW846 6010C [1]	SW846 3050B [2]
Zinc [a]	14.3	11	2.7	1.6	mg/kg	10	04/03/15	04/03/15	LM	SW846 6010C [1]	SW846 3050B [2]

(1) Instrument QC Batch: MA12317
(2) Prep QC Batch: MP28752

(a) Sample dilution required due to difficult matrix.

LOQ = Limit of Quantitation
LOD = Limit of Detection
DL = Detection Limit
U = Indicates a result < LOD
J = Indicates a result > = DL (MDL) but < LOQ

Accutest Laboratories

Report of Analysis

Client Sample ID:	TS862-8A		
Lab Sample ID:	FA23258-18	Date Sampled:	03/30/15
Matrix:	SO - Soil	Date Received:	04/01/15
		Percent Solids:	85.1
Project:	HM-AZ PBR Holloman AFB; Alamogordo, NM		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Solids, Percent	85.1		%	1	04/02/15 16:34	JC	SM19 2540G

RL = Reporting Limit

Accutest Laboratories

Report of Analysis

Client Sample ID:	TS862-9		
Lab Sample ID:	FA23258-19	Date Sampled:	03/30/15
Matrix:	SO - Soil	Date Received:	04/01/15
Method:	SW846 8270D SW846 3550C	Percent Solids:	83.0
Project:	HM-AZ PBR Holloman AFB; Alamogordo, NM		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	L0681768.D	1	04/07/15	MV	04/03/15	OP55582	SL3632
Run #2							

	Initial Weight	Final Volume
Run #1	30.1 g	1.0 ml
Run #2		

BN PAH List

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
83-32-9	Acenaphthene	40 U	200	40	20	ug/kg	
208-96-8	Acenaphthylene	40 U	200	40	20	ug/kg	
120-12-7	Anthracene	40 U	200	40	20	ug/kg	
56-55-3	Benzo(a)anthracene	40 U	200	40	20	ug/kg	
50-32-8	Benzo(a)pyrene	40 U	200	40	20	ug/kg	
205-99-2	Benzo(b)fluoranthene	40 U	200	40	20	ug/kg	
191-24-2	Benzo(g,h,i)perylene	40 U	200	40	20	ug/kg	
207-08-9	Benzo(k)fluoranthene	40 U	200	40	20	ug/kg	
218-01-9	Chrysene	40 U	200	40	20	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	40 U	200	40	20	ug/kg	
206-44-0	Fluoranthene	40 U	200	40	20	ug/kg	
86-73-7	Fluorene	40 U	200	40	20	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	40 U	200	40	20	ug/kg	
90-12-0	1-Methylnaphthalene	40 U	200	40	20	ug/kg	
91-57-6	2-Methylnaphthalene	40 U	200	40	20	ug/kg	
91-20-3	Naphthalene	40 U	200	40	20	ug/kg	
85-01-8	Phenanthrene	40 U	200	40	20	ug/kg	
129-00-0	Pyrene	40 U	200	40	20	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	80%		40-105%
321-60-8	2-Fluorobiphenyl	79%		43-107%
1718-51-0	Terphenyl-d14	96%		45-119%

U = Not detected LOD = Limit of Detection J = Indicates an estimated value
LOQ = Limit of Quantitation DL = Detection Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

4.19 4

Client Sample ID:	TS862-9		
Lab Sample ID:	FA23258-19	Date Sampled:	03/30/15
Matrix:	SO - Soil	Date Received:	04/01/15
		Percent Solids:	83.0
Project:	HM-AZ PBR Holloman AFB; Alamogordo, NM		

Metals Analysis

Analyte	Result	LOQ	LOD	DL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Antimony [a]	0.98 J	12	2.9	0.76	mg/kg	10	04/03/15	04/03/15	LM	SW846 6010C [1]	SW846 3050B [2]
Arsenic [a]	2.9 U	5.8	2.9	1.2	mg/kg	10	04/03/15	04/03/15	LM	SW846 6010C [1]	SW846 3050B [2]
Copper [a]	3.4 J	15	1.2	0.58	mg/kg	10	04/03/15	04/03/15	LM	SW846 6010C [1]	SW846 3050B [2]
Lead [a]	1.9 J	12	2.3	0.58	mg/kg	10	04/03/15	04/03/15	LM	SW846 6010C [1]	SW846 3050B [2]
Zinc [a]	10.6 J	12	2.9	1.8	mg/kg	10	04/03/15	04/03/15	LM	SW846 6010C [1]	SW846 3050B [2]

(1) Instrument QC Batch: MA12317
(2) Prep QC Batch: MP28752

(a) Sample dilution required due to difficult matrix.

LOQ = Limit of Quantitation
LOD = Limit of Detection
DL = Detection Limit
U = Indicates a result < LOD
J = Indicates a result > = DL (MDL) but < LOQ

Accutest Laboratories

Report of Analysis

Client Sample ID:	TS862-9A		
Lab Sample ID:	FA23258-20	Date Sampled:	03/30/15
Matrix:	SO - Soil	Date Received:	04/01/15
		Percent Solids:	84.5
Project:	HM-AZ PBR Holloman AFB; Alamogordo, NM		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Solids, Percent	84.5		%	1	04/02/15 17:01	JC	SM19 2540G

RL = Reporting Limit

Accutest Laboratories

Report of Analysis

Client Sample ID:	TS862-10		
Lab Sample ID:	FA23258-21	Date Sampled:	03/30/15
Matrix:	SO - Soil	Date Received:	04/01/15
Method:	SW846 8270D SW846 3550C	Percent Solids:	85.2
Project:	HM-AZ PBR Holloman AFB; Alamogordo, NM		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	L0681769.D	1	04/07/15	MV	04/03/15	OP55582	SL3632
Run #2							

	Initial Weight	Final Volume
Run #1	30.4 g	1.0 ml
Run #2		

BN PAH List

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
83-32-9	Acenaphthene	39 U	190	39	19	ug/kg	
208-96-8	Acenaphthylene	39 U	190	39	19	ug/kg	
120-12-7	Anthracene	39 U	190	39	19	ug/kg	
56-55-3	Benzo(a)anthracene	39 U	190	39	19	ug/kg	
50-32-8	Benzo(a)pyrene	39 U	190	39	19	ug/kg	
205-99-2	Benzo(b)fluoranthene	39 U	190	39	19	ug/kg	
191-24-2	Benzo(g,h,i)perylene	39 U	190	39	19	ug/kg	
207-08-9	Benzo(k)fluoranthene	39 U	190	39	19	ug/kg	
218-01-9	Chrysene	39 U	190	39	19	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	39 U	190	39	19	ug/kg	
206-44-0	Fluoranthene	39 U	190	39	19	ug/kg	
86-73-7	Fluorene	39 U	190	39	19	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	39 U	190	39	19	ug/kg	
90-12-0	1-Methylnaphthalene	39 U	190	39	19	ug/kg	
91-57-6	2-Methylnaphthalene	39 U	190	39	19	ug/kg	
91-20-3	Naphthalene	39 U	190	39	19	ug/kg	
85-01-8	Phenanthrene	39 U	190	39	19	ug/kg	
129-00-0	Pyrene	39 U	190	39	19	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	73%		40-105%
321-60-8	2-Fluorobiphenyl	70%		43-107%
1718-51-0	Terphenyl-d14	86%		45-119%

U = Not detected LOD = Limit of Detection
LOQ = Limit of Quantitation DL = Detection Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	TS862-10		
Lab Sample ID:	FA23258-21	Date Sampled:	03/30/15
Matrix:	SO - Soil	Date Received:	04/01/15
		Percent Solids:	85.2
Project:	HM-AZ PBR Holloman AFB; Alamogordo, NM		

Metals Analysis

Analyte	Result	LOQ	LOD	DL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Antimony [a]	1.1 J	9.4	2.3	0.61	mg/kg	10	04/03/15	04/03/15	LM	SW846 6010C [1]	SW846 3050B [2]
Arsenic [a]	1.3 J	4.7	2.3	0.94	mg/kg	10	04/03/15	04/03/15	LM	SW846 6010C [1]	SW846 3050B [2]
Copper [a]	3.7 J	12	0.94	0.47	mg/kg	10	04/03/15	04/03/15	LM	SW846 6010C [1]	SW846 3050B [2]
Lead [a]	2.4 J	9.4	1.9	0.47	mg/kg	10	04/03/15	04/03/15	LM	SW846 6010C [1]	SW846 3050B [2]
Zinc [a]	14.8	9.4	2.3	1.4	mg/kg	10	04/03/15	04/03/15	LM	SW846 6010C [1]	SW846 3050B [2]

(1) Instrument QC Batch: MA12317
(2) Prep QC Batch: MP28752

(a) Sample dilution required due to difficult matrix.

LOQ = Limit of Quantitation
LOD = Limit of Detection
DL = Detection Limit
U = Indicates a result < LOD
J = Indicates a result > = DL (MDL) but < LOQ

Accutest Laboratories

Report of Analysis

Client Sample ID:	TS862-11		
Lab Sample ID:	FA23258-22	Date Sampled:	03/30/15
Matrix:	SO - Soil	Date Received:	04/01/15
Method:	SW846 8270D SW846 3550C	Percent Solids:	83.0
Project:	HM-AZ PBR Holloman AFB; Alamogordo, NM		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	L0681770.D	1	04/07/15	MV	04/03/15	OP55582	SL3632
Run #2							

	Initial Weight	Final Volume
Run #1	30.4 g	1.0 ml
Run #2		

BN PAH List

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
83-32-9	Acenaphthene	40 U	200	40	20	ug/kg	
208-96-8	Acenaphthylene	40 U	200	40	20	ug/kg	
120-12-7	Anthracene	40 U	200	40	20	ug/kg	
56-55-3	Benzo(a)anthracene	40 U	200	40	20	ug/kg	
50-32-8	Benzo(a)pyrene	40 U	200	40	20	ug/kg	
205-99-2	Benzo(b)fluoranthene	40 U	200	40	20	ug/kg	
191-24-2	Benzo(g,h,i)perylene	40 U	200	40	20	ug/kg	
207-08-9	Benzo(k)fluoranthene	40 U	200	40	20	ug/kg	
218-01-9	Chrysene	40 U	200	40	20	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	40 U	200	40	20	ug/kg	
206-44-0	Fluoranthene	40 U	200	40	20	ug/kg	
86-73-7	Fluorene	40 U	200	40	20	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	40 U	200	40	20	ug/kg	
90-12-0	1-Methylnaphthalene	40 U	200	40	20	ug/kg	
91-57-6	2-Methylnaphthalene	40 U	200	40	20	ug/kg	
91-20-3	Naphthalene	40 U	200	40	20	ug/kg	
85-01-8	Phenanthrene	40 U	200	40	20	ug/kg	
129-00-0	Pyrene	40 U	200	40	20	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	84%		40-105%
321-60-8	2-Fluorobiphenyl	80%		43-107%
1718-51-0	Terphenyl-d14	98%		45-119%

U = Not detected LOD = Limit of Detection J = Indicates an estimated value
LOQ = Limit of Quantitation DL = Detection Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

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Client Sample ID:	TS862-11		
Lab Sample ID:	FA23258-22	Date Sampled:	03/30/15
Matrix:	SO - Soil	Date Received:	04/01/15
		Percent Solids:	83.0
Project:	HM-AZ PBR Holloman AFB; Alamogordo, NM		

Metals Analysis

Analyte	Result	LOQ	LOD	DL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Antimony [a]	2.7 U	11	2.7	0.71	mg/kg	10	04/03/15	04/03/15	LM	SW846 6010C [1]	SW846 3050B [3]
Arsenic [a]	1.2 J	5.5	2.7	1.1	mg/kg	10	04/03/15	04/03/15	LM	SW846 6010C [1]	SW846 3050B [3]
Copper [a]	4.5 J	14	1.1	0.55	mg/kg	10	04/03/15	04/03/15	LM	SW846 6010C [1]	SW846 3050B [3]
Lead [a]	2.9 J	11	2.2	0.55	mg/kg	10	04/03/15	04/06/15	LM	SW846 6010C [2]	SW846 3050B [3]
Zinc [a]	12.8	11	2.7	1.6	mg/kg	10	04/03/15	04/06/15	LM	SW846 6010C [2]	SW846 3050B [3]

(1) Instrument QC Batch: MA12317
(2) Instrument QC Batch: MA12320
(3) Prep QC Batch: MP28752

(a) Sample dilution required due to difficult matrix.

LOQ = Limit of Quantitation DL = Detection Limit U = Indicates a result < LOD
LOD = Limit of Detection J = Indicates a result >= DL (MDL) but < LOQ

Accutest Laboratories

Report of Analysis

Client Sample ID:	TS862-107		
Lab Sample ID:	FA23258-23	Date Sampled:	03/30/15
Matrix:	SO - Soil	Date Received:	04/01/15
Method:	SW846 8270D SW846 3550C	Percent Solids:	85.5
Project:	HM-AZ PBR Holloman AFB; Alamogordo, NM		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	L0681771.D	1	04/07/15	MV	04/03/15	OP55582	SL3632
Run #2							

	Initial Weight	Final Volume
Run #1	30.3 g	1.0 ml
Run #2		

BN PAH List

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
83-32-9	Acenaphthene	39 U	190	39	19	ug/kg	
208-96-8	Acenaphthylene	39 U	190	39	19	ug/kg	
120-12-7	Anthracene	39 U	190	39	19	ug/kg	
56-55-3	Benzo(a)anthracene	39 U	190	39	19	ug/kg	
50-32-8	Benzo(a)pyrene	39 U	190	39	19	ug/kg	
205-99-2	Benzo(b)fluoranthene	39 U	190	39	19	ug/kg	
191-24-2	Benzo(g,h,i)perylene	39 U	190	39	19	ug/kg	
207-08-9	Benzo(k)fluoranthene	39 U	190	39	19	ug/kg	
218-01-9	Chrysene	39 U	190	39	19	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	39 U	190	39	19	ug/kg	
206-44-0	Fluoranthene	39 U	190	39	19	ug/kg	
86-73-7	Fluorene	39 U	190	39	19	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	39 U	190	39	19	ug/kg	
90-12-0	1-Methylnaphthalene	39 U	190	39	19	ug/kg	
91-57-6	2-Methylnaphthalene	39 U	190	39	19	ug/kg	
91-20-3	Naphthalene	39 U	190	39	19	ug/kg	
85-01-8	Phenanthrene	39 U	190	39	19	ug/kg	
129-00-0	Pyrene	39 U	190	39	19	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	84%		40-105%
321-60-8	2-Fluorobiphenyl	79%		43-107%
1718-51-0	Terphenyl-d14	100%		45-119%

U = Not detected LOD = Limit of Detection J = Indicates an estimated value
LOQ = Limit of Quantitation DL = Detection Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	TS862-107		
Lab Sample ID:	FA23258-23	Date Sampled:	03/30/15
Matrix:	SO - Soil	Date Received:	04/01/15
		Percent Solids:	85.5
Project:	HM-AZ PBR Holloman AFB; Alamogordo, NM		

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Metals Analysis

Analyte	Result	LOQ	LOD	DL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Antimony [a]	1.1 J	9.4	2.4	0.61	mg/kg	10	04/03/15	04/03/15	LM	SW846 6010C [1]	SW846 3050B [3]
Arsenic [a]	1.7 J	4.7	2.4	0.94	mg/kg	10	04/03/15	04/03/15	LM	SW846 6010C [1]	SW846 3050B [3]
Copper [a]	4.2 J	12	0.94	0.47	mg/kg	10	04/03/15	04/03/15	LM	SW846 6010C [1]	SW846 3050B [3]
Lead [a]	3.3 J	9.4	1.9	0.47	mg/kg	10	04/03/15	04/06/15	LM	SW846 6010C [2]	SW846 3050B [3]
Zinc [a]	14.8	9.4	2.4	1.4	mg/kg	10	04/03/15	04/06/15	LM	SW846 6010C [2]	SW846 3050B [3]

(1) Instrument QC Batch: MA12317
(2) Instrument QC Batch: MA12320
(3) Prep QC Batch: MP28752

(a) Sample dilution required due to difficult matrix.

LOQ = Limit of Quantitation
LOD = Limit of Detection
DL = Detection Limit
U = Indicates a result < LOD
J = Indicates a result >= DL (MDL) but < LOQ

Report of Analysis

Client Sample ID:	TS862-11A		
Lab Sample ID:	FA23258-24	Date Sampled:	03/30/15
Matrix:	SO - Soil	Date Received:	04/01/15
		Percent Solids:	85.5
Project:	HM-AZ PBR Holloman AFB; Alamogordo, NM		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Solids, Percent	85.5		%	1	04/02/15 17:01	JC	SM19 2540G

RL = Reporting Limit

Accutest Laboratories

Report of Analysis

Client Sample ID:	TS862-12		
Lab Sample ID:	FA23258-25	Date Sampled:	03/30/15
Matrix:	SO - Soil	Date Received:	04/01/15
Method:	SW846 8270D SW846 3550C	Percent Solids:	82.2
Project:	HM-AZ PBR Holloman AFB; Alamogordo, NM		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	L0681772.D	1	04/07/15	MV	04/03/15	OP55582	SL3632
Run #2							

	Initial Weight	Final Volume
Run #1	30.3 g	1.0 ml
Run #2		

BN PAH List

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
83-32-9	Acenaphthene	40 U	200	40	20	ug/kg	
208-96-8	Acenaphthylene	40 U	200	40	20	ug/kg	
120-12-7	Anthracene	40 U	200	40	20	ug/kg	
56-55-3	Benzo(a)anthracene	40 U	200	40	20	ug/kg	
50-32-8	Benzo(a)pyrene	40 U	200	40	20	ug/kg	
205-99-2	Benzo(b)fluoranthene	40 U	200	40	20	ug/kg	
191-24-2	Benzo(g,h,i)perylene	40 U	200	40	20	ug/kg	
207-08-9	Benzo(k)fluoranthene	40 U	200	40	20	ug/kg	
218-01-9	Chrysene	40 U	200	40	20	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	40 U	200	40	20	ug/kg	
206-44-0	Fluoranthene	40 U	200	40	20	ug/kg	
86-73-7	Fluorene	40 U	200	40	20	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	40 U	200	40	20	ug/kg	
90-12-0	1-Methylnaphthalene	40 U	200	40	20	ug/kg	
91-57-6	2-Methylnaphthalene	40 U	200	40	20	ug/kg	
91-20-3	Naphthalene	40 U	200	40	20	ug/kg	
85-01-8	Phenanthrene	40 U	200	40	20	ug/kg	
129-00-0	Pyrene	40 U	200	40	20	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	75%		40-105%
321-60-8	2-Fluorobiphenyl	71%		43-107%
1718-51-0	Terphenyl-d14	86%		45-119%

U = Not detected LOD = Limit of Detection J = Indicates an estimated value
LOQ = Limit of Quantitation DL = Detection Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	TS862-12		
Lab Sample ID:	FA23258-25	Date Sampled:	03/30/15
Matrix:	SO - Soil	Date Received:	04/01/15
		Percent Solids:	82.2
Project:	HM-AZ PBR Holloman AFB; Alamogordo, NM		

Metals Analysis

Analyte	Result	LOQ	LOD	DL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Antimony [a]	1.2 J	10	2.6	0.67	mg/kg	10	04/03/15	04/03/15	LM	SW846 6010C [1]	SW846 3050B [3]
Arsenic [a]	1.6 J	5.2	2.6	1.0	mg/kg	10	04/03/15	04/03/15	LM	SW846 6010C [1]	SW846 3050B [3]
Copper [a]	4.2 J	13	1.0	0.52	mg/kg	10	04/03/15	04/03/15	LM	SW846 6010C [1]	SW846 3050B [3]
Lead [a]	3.1 J	10	2.1	0.52	mg/kg	10	04/03/15	04/06/15	LM	SW846 6010C [2]	SW846 3050B [3]
Zinc [a]	13.5	10	2.6	1.5	mg/kg	10	04/03/15	04/06/15	LM	SW846 6010C [2]	SW846 3050B [3]

(1) Instrument QC Batch: MA12317
(2) Instrument QC Batch: MA12320
(3) Prep QC Batch: MP28752

(a) Sample dilution required due to difficult matrix.

LOQ = Limit of Quantitation
LOD = Limit of Detection
DL = Detection Limit
U = Indicates a result < LOD
J = Indicates a result >= DL (MDL) but < LOQ

Accutest Laboratories

Report of Analysis

Client Sample ID:	TS862-12A		
Lab Sample ID:	FA23258-26	Date Sampled:	03/30/15
Matrix:	SO - Soil	Date Received:	04/01/15
		Percent Solids:	83.7
Project:	HM-AZ PBR Holloman AFB; Alamogordo, NM		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Solids, Percent	83.7		%	1	04/02/15 17:01	JC	SM19 2540G

RL = Reporting Limit

Accutest Laboratories

Report of Analysis

Client Sample ID:	TS862-13		
Lab Sample ID:	FA23258-27	Date Sampled:	03/30/15
Matrix:	SO - Soil	Date Received:	04/01/15
Method:	SW846 8270D SW846 3550C	Percent Solids:	82.8
Project:	HM-AZ PBR Holloman AFB; Alamogordo, NM		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	L0681773.D	1	04/07/15	MV	04/03/15	OP55582	SL3632
Run #2							

	Initial Weight	Final Volume
Run #1	30.4 g	1.0 ml
Run #2		

BN PAH List

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
83-32-9	Acenaphthene	40 U	200	40	20	ug/kg	
208-96-8	Acenaphthylene	40 U	200	40	20	ug/kg	
120-12-7	Anthracene	40 U	200	40	20	ug/kg	
56-55-3	Benzo(a)anthracene	40 U	200	40	20	ug/kg	
50-32-8	Benzo(a)pyrene	40 U	200	40	20	ug/kg	
205-99-2	Benzo(b)fluoranthene	40 U	200	40	20	ug/kg	
191-24-2	Benzo(g,h,i)perylene	40 U	200	40	20	ug/kg	
207-08-9	Benzo(k)fluoranthene	40 U	200	40	20	ug/kg	
218-01-9	Chrysene	40 U	200	40	20	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	40 U	200	40	20	ug/kg	
206-44-0	Fluoranthene	40 U	200	40	20	ug/kg	
86-73-7	Fluorene	40 U	200	40	20	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	40 U	200	40	20	ug/kg	
90-12-0	1-Methylnaphthalene	40 U	200	40	20	ug/kg	
91-57-6	2-Methylnaphthalene	40 U	200	40	20	ug/kg	
91-20-3	Naphthalene	40 U	200	40	20	ug/kg	
85-01-8	Phenanthrene	40 U	200	40	20	ug/kg	
129-00-0	Pyrene	40 U	200	40	20	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	83%		40-105%
321-60-8	2-Fluorobiphenyl	80%		43-107%
1718-51-0	Terphenyl-d14	99%		45-119%

U = Not detected LOD = Limit of Detection J = Indicates an estimated value
LOQ = Limit of Quantitation DL = Detection Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	TS862-13		
Lab Sample ID:	FA23258-27	Date Sampled:	03/30/15
Matrix:	SO - Soil	Date Received:	04/01/15
		Percent Solids:	82.8
Project:	HM-AZ PBR Holloman AFB; Alamogordo, NM		

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Metals Analysis

Analyte	Result	LOQ	LOD	DL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Antimony [a]	1.2 J	11	2.6	0.68	mg/kg	10	04/03/15	04/03/15	LM	SW846 6010C [1]	SW846 3050B [3]
Arsenic [a]	1.5 J	5.3	2.6	1.1	mg/kg	10	04/03/15	04/03/15	LM	SW846 6010C [1]	SW846 3050B [3]
Copper [a]	3.6 J	13	1.1	0.53	mg/kg	10	04/03/15	04/03/15	LM	SW846 6010C [1]	SW846 3050B [3]
Lead [a]	2.3 J	11	2.1	0.53	mg/kg	10	04/03/15	04/06/15	LM	SW846 6010C [2]	SW846 3050B [3]
Zinc [a]	12.0	11	2.6	1.6	mg/kg	10	04/03/15	04/06/15	LM	SW846 6010C [2]	SW846 3050B [3]

(1) Instrument QC Batch: MA12317
(2) Instrument QC Batch: MA12320
(3) Prep QC Batch: MP28752

(a) Sample dilution required due to difficult matrix.

LOQ = Limit of Quantitation
LOD = Limit of Detection
DL = Detection Limit
U = Indicates a result < LOD
J = Indicates a result >= DL (MDL) but < LOQ

Accutest Laboratories

Report of Analysis

Client Sample ID:	TS862-13A		
Lab Sample ID:	FA23258-28	Date Sampled:	03/30/15
Matrix:	SO - Soil	Date Received:	04/01/15
		Percent Solids:	82.8
Project:	HM-AZ PBR Holloman AFB; Alamogordo, NM		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Solids, Percent	82.8		%	1	04/02/15 17:01	JC	SM19 2540G

RL = Reporting Limit

Accutest Laboratories

Report of Analysis

Client Sample ID:	TS862-14		
Lab Sample ID:	FA23258-29	Date Sampled:	03/30/15
Matrix:	SO - Soil	Date Received:	04/01/15
Method:	SW846 8270D SW846 3550C	Percent Solids:	85.2
Project:	HM-AZ PBR Holloman AFB; Alamogordo, NM		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	L0681774.D	1	04/07/15	MV	04/03/15	OP55582	SL3632
Run #2							

	Initial Weight	Final Volume
Run #1	30.5 g	1.0 ml
Run #2		

BN PAH List

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
83-32-9	Acenaphthene	38 U	190	38	19	ug/kg	
208-96-8	Acenaphthylene	38 U	190	38	19	ug/kg	
120-12-7	Anthracene	38 U	190	38	19	ug/kg	
56-55-3	Benzo(a)anthracene	38 U	190	38	19	ug/kg	
50-32-8	Benzo(a)pyrene	38 U	190	38	19	ug/kg	
205-99-2	Benzo(b)fluoranthene	38 U	190	38	19	ug/kg	
191-24-2	Benzo(g,h,i)perylene	38 U	190	38	19	ug/kg	
207-08-9	Benzo(k)fluoranthene	38 U	190	38	19	ug/kg	
218-01-9	Chrysene	38 U	190	38	19	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	38 U	190	38	19	ug/kg	
206-44-0	Fluoranthene	38 U	190	38	19	ug/kg	
86-73-7	Fluorene	38 U	190	38	19	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	38 U	190	38	19	ug/kg	
90-12-0	1-Methylnaphthalene	38 U	190	38	19	ug/kg	
91-57-6	2-Methylnaphthalene	38 U	190	38	19	ug/kg	
91-20-3	Naphthalene	38 U	190	38	19	ug/kg	
85-01-8	Phenanthrene	38 U	190	38	19	ug/kg	
129-00-0	Pyrene	38 U	190	38	19	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	85%		40-105%
321-60-8	2-Fluorobiphenyl	80%		43-107%
1718-51-0	Terphenyl-d14	102%		45-119%

U = Not detected LOD = Limit of Detection
LOQ = Limit of Quantitation DL = Detection Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	TS862-14		
Lab Sample ID:	FA23258-29	Date Sampled:	03/30/15
Matrix:	SO - Soil	Date Received:	04/01/15
		Percent Solids:	85.2
Project:	HM-AZ PBR Holloman AFB; Alamogordo, NM		

Metals Analysis

Analyte	Result	LOQ	LOD	DL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Antimony [a]	1.3 J	8.8	2.2	0.57	mg/kg	10	04/03/15	04/03/15	LM	SW846 6010C [1]	SW846 3050B [3]
Arsenic [a]	2.3 J	4.4	2.2	0.88	mg/kg	10	04/03/15	04/03/15	LM	SW846 6010C [1]	SW846 3050B [3]
Copper [a]	4.6 J	11	0.88	0.44	mg/kg	10	04/03/15	04/03/15	LM	SW846 6010C [1]	SW846 3050B [3]
Lead [a]	3.0 J	8.8	1.8	0.44	mg/kg	10	04/03/15	04/06/15	LM	SW846 6010C [2]	SW846 3050B [3]
Zinc [a]	14.2	8.8	2.2	1.3	mg/kg	10	04/03/15	04/06/15	LM	SW846 6010C [2]	SW846 3050B [3]

(1) Instrument QC Batch: MA12317
(2) Instrument QC Batch: MA12320
(3) Prep QC Batch: MP28752

(a) Sample dilution required due to difficult matrix.

LOQ = Limit of Quantitation
LOD = Limit of Detection
DL = Detection Limit
U = Indicates a result < LOD
J = Indicates a result >= DL (MDL) but < LOQ

Accutest Laboratories

Report of Analysis

Client Sample ID:	TS862-14A		
Lab Sample ID:	FA23258-30	Date Sampled:	03/30/15
Matrix:	SO - Soil	Date Received:	04/01/15
		Percent Solids:	86.7
Project:	HM-AZ PBR Holloman AFB; Alamogordo, NM		

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General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Solids, Percent	86.7		%	1	04/02/15 17:01	JC	SM19 2540G

RL = Reporting Limit

Accutest Laboratories

Report of Analysis

Client Sample ID:	TS862-15		
Lab Sample ID:	FA23258-31	Date Sampled:	03/30/15
Matrix:	SO - Soil	Date Received:	04/01/15
Method:	SW846 8270D SW846 3550C	Percent Solids:	82.1
Project:	HM-AZ PBR Holloman AFB; Alamogordo, NM		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	L0681775.D	1	04/07/15	MV	04/03/15	OP55582	SL3632
Run #2							

	Initial Weight	Final Volume
Run #1	30.0 g	1.0 ml
Run #2		

BN PAH List

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
83-32-9	Acenaphthene	41 U	200	41	20	ug/kg	
208-96-8	Acenaphthylene	41 U	200	41	20	ug/kg	
120-12-7	Anthracene	41 U	200	41	20	ug/kg	
56-55-3	Benzo(a)anthracene	41 U	200	41	20	ug/kg	
50-32-8	Benzo(a)pyrene	41 U	200	41	20	ug/kg	
205-99-2	Benzo(b)fluoranthene	41 U	200	41	20	ug/kg	
191-24-2	Benzo(g,h,i)perylene	41 U	200	41	20	ug/kg	
207-08-9	Benzo(k)fluoranthene	41 U	200	41	20	ug/kg	
218-01-9	Chrysene	41 U	200	41	20	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	41 U	200	41	20	ug/kg	
206-44-0	Fluoranthene	25.7	200	41	20	ug/kg	J
86-73-7	Fluorene	41 U	200	41	20	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	41 U	200	41	20	ug/kg	
90-12-0	1-Methylnaphthalene	41 U	200	41	20	ug/kg	
91-57-6	2-Methylnaphthalene	41 U	200	41	20	ug/kg	
91-20-3	Naphthalene	41 U	200	41	20	ug/kg	
85-01-8	Phenanthrene	41 U	200	41	20	ug/kg	
129-00-0	Pyrene	23.6	200	41	20	ug/kg	J

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	79%		40-105%
321-60-8	2-Fluorobiphenyl	78%		43-107%
1718-51-0	Terphenyl-d14	94%		45-119%

U = Not detected LOD = Limit of Detection J = Indicates an estimated value
LOQ = Limit of Quantitation DL = Detection Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	TS862-15		
Lab Sample ID:	FA23258-31	Date Sampled:	03/30/15
Matrix:	SO - Soil	Date Received:	04/01/15
		Percent Solids:	82.1
Project:	HM-AZ PBR Holloman AFB; Alamogordo, NM		

4.31

4

Metals Analysis

Analyte	Result	LOQ	LOD	DL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Antimony [a]	1.6 J	11	2.7	0.71	mg/kg	10	04/03/15	04/03/15	LM	SW846 6010C [1]	SW846 3050B [3]
Arsenic [a]	2.2 J	5.5	2.7	1.1	mg/kg	10	04/03/15	04/03/15	LM	SW846 6010C [1]	SW846 3050B [3]
Copper [a]	4.0 J	14	1.1	0.55	mg/kg	10	04/03/15	04/03/15	LM	SW846 6010C [1]	SW846 3050B [3]
Lead [a]	2.9 J	11	2.2	0.55	mg/kg	10	04/03/15	04/06/15	LM	SW846 6010C [2]	SW846 3050B [3]
Zinc [a]	12.7	11	2.7	1.6	mg/kg	10	04/03/15	04/06/15	LM	SW846 6010C [2]	SW846 3050B [3]

(1) Instrument QC Batch: MA12317
(2) Instrument QC Batch: MA12320
(3) Prep QC Batch: MP28752

(a) Sample dilution required due to difficult matrix.

LOQ = Limit of Quantitation
LOD = Limit of Detection
DL = Detection Limit
U = Indicates a result < LOD
J = Indicates a result > = DL (MDL) but < LOQ

Accutest Laboratories

Report of Analysis

Client Sample ID:	TS862-15A		
Lab Sample ID:	FA23258-32	Date Sampled:	03/30/15
Matrix:	SO - Soil	Date Received:	04/01/15
		Percent Solids:	87.6
Project:	HM-AZ PBR Holloman AFB; Alamogordo, NM		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Solids, Percent	87.6		%	1	04/02/15 17:01	JC	SM19 2540G

RL = Reporting Limit

Accutest Laboratories

Report of Analysis

Client Sample ID:	TS862-16		
Lab Sample ID:	FA23258-33	Date Sampled:	03/30/15
Matrix:	SO - Soil	Date Received:	04/01/15
Method:	SW846 8270D SW846 3550C	Percent Solids:	81.0
Project:	HM-AZ PBR Holloman AFB; Alamogordo, NM		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	L0681743.D	1	04/06/15	MV	04/03/15	OP55582	SL3631
Run #2							

	Initial Weight	Final Volume
Run #1	30.4 g	1.0 ml
Run #2		

BN PAH List

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
83-32-9	Acenaphthene	41 U	200	41	20	ug/kg	
208-96-8	Acenaphthylene	41 U	200	41	20	ug/kg	
120-12-7	Anthracene	41 U	200	41	20	ug/kg	
56-55-3	Benzo(a)anthracene	41 U	200	41	20	ug/kg	
50-32-8	Benzo(a)pyrene	41 U	200	41	20	ug/kg	
205-99-2	Benzo(b)fluoranthene	41 U	200	41	20	ug/kg	
191-24-2	Benzo(g,h,i)perylene	41 U	200	41	20	ug/kg	
207-08-9	Benzo(k)fluoranthene	41 U	200	41	20	ug/kg	
218-01-9	Chrysene	41 U	200	41	20	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	41 U	200	41	20	ug/kg	
206-44-0	Fluoranthene	41 U	200	41	20	ug/kg	
86-73-7	Fluorene	41 U	200	41	20	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	41 U	200	41	20	ug/kg	
90-12-0	1-Methylnaphthalene	41 U	200	41	20	ug/kg	
91-57-6	2-Methylnaphthalene	41 U	200	41	20	ug/kg	
91-20-3	Naphthalene	41 U	200	41	20	ug/kg	
85-01-8	Phenanthrene	41 U	200	41	20	ug/kg	
129-00-0	Pyrene	41 U	200	41	20	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	69%		40-105%
321-60-8	2-Fluorobiphenyl	71%		43-107%
1718-51-0	Terphenyl-d14	85%		45-119%

U = Not detected LOD = Limit of Detection
LOQ = Limit of Quantitation DL = Detection Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

4.33 4

Client Sample ID:	TS862-16		
Lab Sample ID:	FA23258-33	Date Sampled:	03/30/15
Matrix:	SO - Soil	Date Received:	04/01/15
		Percent Solids:	81.0
Project:	HM-AZ PBR Holloman AFB; Alamogordo, NM		

Metals Analysis

Analyte	Result	LOQ	LOD	DL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Antimony [a]	0.88 J	12	3.0	0.79	mg/kg	10	04/03/15	04/03/15	LM	SW846 6010C [1]	SW846 3050B [3]
Arsenic [a]	3.0 U	6.1	3.0	1.2	mg/kg	10	04/03/15	04/03/15	LM	SW846 6010C [1]	SW846 3050B [3]
Copper [a]	1.9 J	15	1.2	0.61	mg/kg	10	04/03/15	04/03/15	LM	SW846 6010C [1]	SW846 3050B [3]
Lead [a]	1.2 J	12	2.4	0.61	mg/kg	10	04/03/15	04/06/15	LM	SW846 6010C [2]	SW846 3050B [3]
Zinc [a]	4.0 J	12	3.0	1.8	mg/kg	10	04/03/15	04/06/15	LM	SW846 6010C [2]	SW846 3050B [3]

(1) Instrument QC Batch: MA12317
(2) Instrument QC Batch: MA12320
(3) Prep QC Batch: MP28752

(a) Sample dilution required due to difficult matrix.

LOQ = Limit of Quantitation
LOD = Limit of Detection
DL = Detection Limit
U = Indicates a result < LOD
J = Indicates a result > = DL (MDL) but < LOQ

Accutest Laboratories

Report of Analysis

4.34

Client Sample ID:	TS862-16A		
Lab Sample ID:	FA23258-34	Date Sampled:	03/30/15
Matrix:	SO - Soil	Date Received:	04/01/15
		Percent Solids:	76.2
Project:	HM-AZ PBR Holloman AFB; Alamogordo, NM		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Solids, Percent	76.2		%	1	04/02/15 17:01	JC	SM19 2540G

RL = Reporting Limit

Accutest Laboratories

Report of Analysis

4.35 A

Client Sample ID:	TS862-17		
Lab Sample ID:	FA23258-35	Date Sampled:	03/30/15
Matrix:	SO - Soil	Date Received:	04/01/15
Method:	SW846 8270D SW846 3550C	Percent Solids:	84.2
Project:	HM-AZ PBR Holloman AFB; Alamogordo, NM		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	X039451.D	1	04/08/15	MV	04/03/15	OP55584	SX1833
Run #2							

	Initial Weight	Final Volume
Run #1	30.3 g	1.0 ml
Run #2		

BN PAH List

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
83-32-9	Acenaphthene	39 U	200	39	20	ug/kg	
208-96-8	Acenaphthylene	39 U	200	39	20	ug/kg	
120-12-7	Anthracene	39 U	200	39	20	ug/kg	
56-55-3	Benzo(a)anthracene	39 U	200	39	20	ug/kg	
50-32-8	Benzo(a)pyrene	39 U	200	39	20	ug/kg	
205-99-2	Benzo(b)fluoranthene	39 U	200	39	20	ug/kg	
191-24-2	Benzo(g,h,i)perylene	39 U	200	39	20	ug/kg	
207-08-9	Benzo(k)fluoranthene	39 U	200	39	20	ug/kg	
218-01-9	Chrysene	39 U	200	39	20	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	39 U	200	39	20	ug/kg	
206-44-0	Fluoranthene	39 U	200	39	20	ug/kg	
86-73-7	Fluorene	39 U	200	39	20	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	39 U	200	39	20	ug/kg	
90-12-0	1-Methylnaphthalene	39 U	200	39	20	ug/kg	
91-57-6	2-Methylnaphthalene	39 U	200	39	20	ug/kg	
91-20-3	Naphthalene	39 U	200	39	20	ug/kg	
85-01-8	Phenanthrene	39 U	200	39	20	ug/kg	
129-00-0	Pyrene	39 U	200	39	20	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	70%		40-105%
321-60-8	2-Fluorobiphenyl	68%		43-107%
1718-51-0	Terphenyl-d14	91%		45-119%

U = Not detected LOD = Limit of Detection J = Indicates an estimated value
LOQ = Limit of Quantitation DL = Detection Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	TS862-17		
Lab Sample ID:	FA23258-35	Date Sampled:	03/30/15
Matrix:	SO - Soil	Date Received:	04/01/15
		Percent Solids:	84.2
Project:	HM-AZ PBR Holloman AFB; Alamogordo, NM		

Metals Analysis

Analyte	Result	LOQ	LOD	DL	Units	DF	Prep	Analyzed By	Method	Prep Method
Antimony [a]	2.0 U	8.2	2.0	0.53	mg/kg	10	04/03/15	04/03/15 LM	SW846 6010C [1]	SW846 3050B [2]
Arsenic [a]	2.0 U	4.1	2.0	0.82	mg/kg	10	04/03/15	04/03/15 LM	SW846 6010C [1]	SW846 3050B [2]
Copper [a]	1.2 J	10	0.82	0.41	mg/kg	10	04/03/15	04/03/15 LM	SW846 6010C [1]	SW846 3050B [2]
Lead [a]	1.6 U	8.2	1.6	0.41	mg/kg	10	04/03/15	04/03/15 LM	SW846 6010C [1]	SW846 3050B [2]
Zinc [a]	2.2 J	8.2	2.0	1.2	mg/kg	10	04/03/15	04/03/15 LM	SW846 6010C [1]	SW846 3050B [2]

(1) Instrument QC Batch: MA12318
(2) Prep QC Batch: MP28755

(a) Sample dilution required due to difficult matrix.

LOQ = Limit of Quantitation
LOD = Limit of Detection
DL = Detection Limit
U = Indicates a result < LOD
J = Indicates a result >= DL (MDL) but < LOQ

Report of Analysis

Client Sample ID:	TS862-17A		
Lab Sample ID:	FA23258-36	Date Sampled:	03/30/15
Matrix:	SO - Soil	Date Received:	04/01/15
		Percent Solids:	82.9
Project:	HM-AZ PBR Holloman AFB; Alamogordo, NM		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Solids, Percent	82.9		%	1	04/02/15 17:01	JC	SM19 2540G

RL = Reporting Limit

Raw Data: X039423.D

Accutest Laboratories

Report of Analysis

4.37 4

Client Sample ID:	TS862-18		
Lab Sample ID:	FA23258-37	Date Sampled:	03/30/15
Matrix:	SO - Soil	Date Received:	04/01/15
Method:	SW846 8270D SW846 3550C	Percent Solids:	81.9
Project:	HM-AZ PBR Holloman AFB; Alamogordo, NM		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	X039423.D	1	04/07/15	MV	04/03/15	OP55584	SX1832
Run #2							

	Initial Weight	Final Volume
Run #1	30.2 g	1.0 ml
Run #2		

BN PAH List

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
83-32-9	Acenaphthene	40 U	200	40	20	ug/kg	
208-96-8	Acenaphthylene	40 U	200	40	20	ug/kg	
120-12-7	Anthracene	40 U	200	40	20	ug/kg	
56-55-3	Benzo(a)anthracene	40 U	200	40	20	ug/kg	
50-32-8	Benzo(a)pyrene	40 U	200	40	20	ug/kg	
205-99-2	Benzo(b)fluoranthene	40 U	200	40	20	ug/kg	
191-24-2	Benzo(g,h,i)perylene	40 U	200	40	20	ug/kg	
207-08-9	Benzo(k)fluoranthene	40 U	200	40	20	ug/kg	
218-01-9	Chrysene	40 U	200	40	20	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	40 U	200	40	20	ug/kg	
206-44-0	Fluoranthene	21.4	200	40	20	ug/kg	J
86-73-7	Fluorene	40 U	200	40	20	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	40 U	200	40	20	ug/kg	
90-12-0	1-Methylnaphthalene	40 U	200	40	20	ug/kg	
91-57-6	2-Methylnaphthalene	40 U	200	40	20	ug/kg	
91-20-3	Naphthalene	40 U	200	40	20	ug/kg	
85-01-8	Phenanthrene	40 U	200	40	20	ug/kg	
129-00-0	Pyrene	24.1	200	40	20	ug/kg	J

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	76%		40-105%
321-60-8	2-Fluorobiphenyl	80%		43-107%
1718-51-0	Terphenyl-d14	102%		45-119%

U = Not detected LOD = Limit of Detection
LOQ = Limit of Quantitation DL = Detection Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	TS862-18		
Lab Sample ID:	FA23258-37	Date Sampled:	03/30/15
Matrix:	SO - Soil	Date Received:	04/01/15
		Percent Solids:	81.9
Project:	HM-AZ PBR Holloman AFB; Alamogordo, NM		

Metals Analysis

Analyte	Result	LOQ	LOD	DL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Antimony [a]	2.3 U	9.3	2.3	0.60	mg/kg	10	04/03/15	04/03/15	LM	SW846 6010C [1]	SW846 3050B [2]
Arsenic [a]	1.0 J	4.6	2.3	0.93	mg/kg	10	04/03/15	04/03/15	LM	SW846 6010C [1]	SW846 3050B [2]
Copper [a]	3.7 J	12	0.93	0.46	mg/kg	10	04/03/15	04/03/15	LM	SW846 6010C [1]	SW846 3050B [2]
Lead [a]	0.73 J	9.3	1.9	0.46	mg/kg	10	04/03/15	04/03/15	LM	SW846 6010C [1]	SW846 3050B [2]
Zinc [a]	10.6	9.3	2.3	1.4	mg/kg	10	04/03/15	04/03/15	LM	SW846 6010C [1]	SW846 3050B [2]

(1) Instrument QC Batch: MA12318
(2) Prep QC Batch: MP28755

(a) Sample dilution required due to difficult matrix.

LOQ = Limit of Quantitation
LOD = Limit of Detection
DL = Detection Limit
U = Indicates a result < LOD
J = Indicates a result >= DL (MDL) but < LOQ

Accutest Laboratories

Report of Analysis

Client Sample ID:	TS862-18A		
Lab Sample ID:	FA23258-38	Date Sampled:	03/30/15
Matrix:	SO - Soil	Date Received:	04/01/15
		Percent Solids:	83.3
Project:	HM-AZ PBR Holloman AFB; Alamogordo, NM		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Solids, Percent	83.3		%	1	04/02/15 17:01	JC	SM19 2540G

RL = Reporting Limit

Accutest Laboratories

Report of Analysis

Client Sample ID:	TS862-19		
Lab Sample ID:	FA23258-39	Date Sampled:	03/30/15
Matrix:	SO - Soil	Date Received:	04/01/15
Method:	SW846 8270D SW846 3550C	Percent Solids:	80.0
Project:	HM-AZ PBR Holloman AFB; Alamogordo, NM		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	X039424.D	1	04/07/15	MV	04/03/15	OP55584	SX1832
Run #2							

	Initial Weight	Final Volume
Run #1	30.2 g	1.0 ml
Run #2		

BN PAH List

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
83-32-9	Acenaphthene	41 U	210	41	21	ug/kg	
208-96-8	Acenaphthylene	41 U	210	41	21	ug/kg	
120-12-7	Anthracene	41 U	210	41	21	ug/kg	
56-55-3	Benzo(a)anthracene	41 U	210	41	21	ug/kg	
50-32-8	Benzo(a)pyrene	41 U	210	41	21	ug/kg	
205-99-2	Benzo(b)fluoranthene	41 U	210	41	21	ug/kg	
191-24-2	Benzo(g,h,i)perylene	41 U	210	41	21	ug/kg	
207-08-9	Benzo(k)fluoranthene	41 U	210	41	21	ug/kg	
218-01-9	Chrysene	41 U	210	41	21	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	41 U	210	41	21	ug/kg	
206-44-0	Fluoranthene	41 U	210	41	21	ug/kg	
86-73-7	Fluorene	41 U	210	41	21	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	41 U	210	41	21	ug/kg	
90-12-0	1-Methylnaphthalene	41 U	210	41	21	ug/kg	
91-57-6	2-Methylnaphthalene	41 U	210	41	21	ug/kg	
91-20-3	Naphthalene	41 U	210	41	21	ug/kg	
85-01-8	Phenanthrene	41 U	210	41	21	ug/kg	
129-00-0	Pyrene	41 U	210	41	21	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	60%		40-105%
321-60-8	2-Fluorobiphenyl	63%		43-107%
1718-51-0	Terphenyl-d14	87%		45-119%

U = Not detected LOD = Limit of Detection J = Indicates an estimated value
LOQ = Limit of Quantitation DL = Detection Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	TS862-19		
Lab Sample ID:	FA23258-39	Date Sampled:	03/30/15
Matrix:	SO - Soil	Date Received:	04/01/15
		Percent Solids:	80.0
Project:	HM-AZ PBR Holloman AFB; Alamogordo, NM		

Metals Analysis

Analyte	Result	LOQ	LOD	DL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Antimony [a]	2.4 U	9.5	2.4	0.62	mg/kg	10	04/03/15	04/03/15	LM	SW846 6010C [1]	SW846 3050B [2]
Arsenic [a]	1.1 J	4.7	2.4	0.95	mg/kg	10	04/03/15	04/03/15	LM	SW846 6010C [1]	SW846 3050B [2]
Copper [a]	3.4 J	12	0.95	0.47	mg/kg	10	04/03/15	04/03/15	LM	SW846 6010C [1]	SW846 3050B [2]
Lead [a]	1.9 U	9.5	1.9	0.47	mg/kg	10	04/03/15	04/03/15	LM	SW846 6010C [1]	SW846 3050B [2]
Zinc [a]	10.5	9.5	2.4	1.4	mg/kg	10	04/03/15	04/03/15	LM	SW846 6010C [1]	SW846 3050B [2]

(1) Instrument QC Batch: MA12318
(2) Prep QC Batch: MP28755

(a) Sample dilution required due to difficult matrix.

LOQ = Limit of Quantitation DL = Detection Limit U = Indicates a result < LOD
LOD = Limit of Detection J = Indicates a result > = DL (MDL) but < LOQ

Accutest Laboratories

Report of Analysis

4.40 4

Client Sample ID:	TS862-19A		
Lab Sample ID:	FA23258-40	Date Sampled:	03/30/15
Matrix:	SO - Soil	Date Received:	04/01/15
		Percent Solids:	81.0
Project:	HM-AZ PBR Holloman AFB; Alamogordo, NM		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Solids, Percent	81		%	1	04/02/15 17:18	JC	SM19 2540G

RL = Reporting Limit

Accutest Laboratories

Report of Analysis

Client Sample ID:	TS862-20		
Lab Sample ID:	FA23258-41	Date Sampled:	03/30/15
Matrix:	SO - Soil	Date Received:	04/01/15
Method:	SW846 8270D SW846 3550C	Percent Solids:	78.5
Project:	HM-AZ PBR Holloman AFB; Alamogordo, NM		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	X039425.D	1	04/07/15	MV	04/03/15	OP55584	SX1832
Run #2							

	Initial Weight	Final Volume
Run #1	29.9 g	1.0 ml
Run #2		

BN PAH List

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
83-32-9	Acenaphthene	43 U	210	43	21	ug/kg	
208-96-8	Acenaphthylene	43 U	210	43	21	ug/kg	
120-12-7	Anthracene	43 U	210	43	21	ug/kg	
56-55-3	Benzo(a)anthracene	43 U	210	43	21	ug/kg	
50-32-8	Benzo(a)pyrene	43 U	210	43	21	ug/kg	
205-99-2	Benzo(b)fluoranthene	43 U	210	43	21	ug/kg	
191-24-2	Benzo(g,h,i)perylene	43 U	210	43	21	ug/kg	
207-08-9	Benzo(k)fluoranthene	43 U	210	43	21	ug/kg	
218-01-9	Chrysene	43 U	210	43	21	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	43 U	210	43	21	ug/kg	
206-44-0	Fluoranthene	43 U	210	43	21	ug/kg	
86-73-7	Fluorene	43 U	210	43	21	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	43 U	210	43	21	ug/kg	
90-12-0	1-Methylnaphthalene	43 U	210	43	21	ug/kg	
91-57-6	2-Methylnaphthalene	43 U	210	43	21	ug/kg	
91-20-3	Naphthalene	43 U	210	43	21	ug/kg	
85-01-8	Phenanthrene	43 U	210	43	21	ug/kg	
129-00-0	Pyrene	43 U	210	43	21	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	77%		40-105%
321-60-8	2-Fluorobiphenyl	78%		43-107%
1718-51-0	Terphenyl-d14	108%		45-119%

U = Not detected LOD = Limit of Detection
LOQ = Limit of Quantitation DL = Detection Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	TS862-20		
Lab Sample ID:	FA23258-41	Date Sampled:	03/30/15
Matrix:	SO - Soil	Date Received:	04/01/15
		Percent Solids:	78.5
Project:	HM-AZ PBR Holloman AFB; Alamogordo, NM		

Metals Analysis

Analyte	Result	LOQ	LOD	DL	Units	DF	Prep	Analyzed By	Method	Prep Method
Antimony [a]	2.9 U	12	2.9	0.75	mg/kg	10	04/03/15	04/03/15 LM	SW846 6010C [1]	SW846 3050B [2]
Arsenic [a]	1.5 J	5.8	2.9	1.2	mg/kg	10	04/03/15	04/03/15 LM	SW846 6010C [1]	SW846 3050B [2]
Copper [a]	4.5 J	14	1.2	0.58	mg/kg	10	04/03/15	04/03/15 LM	SW846 6010C [1]	SW846 3050B [2]
Lead [a]	1.8 J	12	2.3	0.58	mg/kg	10	04/03/15	04/03/15 LM	SW846 6010C [1]	SW846 3050B [2]
Zinc [a]	17.8	12	2.9	1.7	mg/kg	10	04/03/15	04/03/15 LM	SW846 6010C [1]	SW846 3050B [2]

(1) Instrument QC Batch: MA12318
(2) Prep QC Batch: MP28755

(a) Sample dilution required due to difficult matrix.

LOQ = Limit of Quantitation
LOD = Limit of Detection
DL = Detection Limit
U = Indicates a result < LOD
J = Indicates a result >= DL (MDL) but < LOQ

Accutest Laboratories

Report of Analysis

Client Sample ID:	TS862-20A		
Lab Sample ID:	FA23258-42	Date Sampled:	03/30/15
Matrix:	SO - Soil	Date Received:	04/01/15
		Percent Solids:	83.1
Project:	HM-AZ PBR Holloman AFB; Alamogordo, NM		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Solids, Percent	83.1		%	1	04/02/15 16:34	JC	SM19 2540G

RL = Reporting Limit

APPENDIX D
Human Health Risk Assessment Worksheets

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	A	B	C	D	E	F	G	H	I	J	K	L
1	UCL Statistics for Data Sets with Non-Detects											
2												
3	User Selected Options											
4	Date/Time of Computation			9/10/2015 12:16:12 PM								
5	From File			proUCL_input_holloman_a.xls								
6	Full Precision			OFF								
7	Confidence Coefficient			95%								
8	mber of Bootstrap Operations			2000								
9												
10	Lead_SR859a											
11												
12	General Statistics											
13	Total Number of Observations					163	Number of Distinct Observations					100
14	Number of Detects					126	Number of Non-Detects					37
15	Number of Distinct Detects					100	Number of Distinct Non-Detects					3
16	Minimum Detect					0.68	Minimum Non-Detect					1.8
17	Maximum Detect					463	Maximum Non-Detect					12
18	Variance Detects					9296	Percent Non-Detects					22.7%
19	Mean Detects					92.35	SD Detects					96.42
20	Median Detects					54	CV Detects					1.044
21	Skewness Detects					1.529	Kurtosis Detects					1.987
22	Mean of Logged Detects					3.849	SD of Logged Detects					1.392
23												
24	Normal GOF Test on Detects Only											
25	Shapiro Wilk Test Statistic					0.815	Normal GOF Test on Detected Observations Only					
26	5% Shapiro Wilk P Value					0	Detected Data Not Normal at 5% Significance Level					
27	Lilliefors Test Statistic					0.179	Lilliefors GOF Test					
28	5% Lilliefors Critical Value					0.0789	Detected Data Not Normal at 5% Significance Level					
29	Detected Data Not Normal at 5% Significance Level											
30												
31	Kaplan-Meier (KM) Statistics using Normal Critical Values and other Nonparametric UCLs											
32	Mean					71.99	Standard Error of Mean					7.269
33	SD					92.42	95% KM (BCA) UCL					84.03
34	95% KM (t) UCL					84.02	95% KM (Percentile Bootstrap) UCL					83.97
35	95% KM (z) UCL					83.95	95% KM Bootstrap t UCL					85.5
36	90% KM Chebyshev UCL					93.8	95% KM Chebyshev UCL					103.7
37	97.5% KM Chebyshev UCL					117.4	99% KM Chebyshev UCL					144.3
38												
39	Gamma GOF Tests on Detected Observations Only											
40	A-D Test Statistic					0.399	Anderson-Darling GOF Test					
41	5% A-D Critical Value					0.79	etected data appear Gamma Distributed at 5% Significance Lev					
42	K-S Test Statistic					0.0468	Kolmogrov-Smirnoff GOF					
43	5% K-S Critical Value					0.0856	etected data appear Gamma Distributed at 5% Significance Lev					
44	Detected data appear Gamma Distributed at 5% Significance Level											
45												
46	Gamma Statistics on Detected Data Only											
47	k hat (MLE)					0.868	k star (bias corrected MLE)					0.852
48	Theta hat (MLE)					106.4	Theta star (bias corrected MLE)					108.4
49	nu hat (MLE)					218.6	nu star (bias corrected)					214.8
50	MLE Mean (bias corrected)					92.35	MLE Sd (bias corrected)					100
51												
52	Gamma Kaplan-Meier (KM) Statistics											
53	k hat (KM)					0.607	nu hat (KM)					197.8
54	Approximate Chi Square Value (197.85, α)					166.3	Adjusted Chi Square Value (197.85, β)					166
55	5% Gamma Approximate KM-UCL (use when n>=50)					85.65	95% Gamma Adjusted KM-UCL (use when n<50)					85.78
56												
57	Gamma ROS Statistics using Imputed Non-Detects											
58	GROS may not be used when data set has > 50% NDs with many tied observations at multiple DLs											
59	GROS may not be used when kstar of detected data is small such as < 0.1											
60	For such situations, GROS method tends to yield inflated values of UCLs and BTVs											
61	For gamma distributed detected data, BTVs and UCLs may be computed using gamma distribution on KM estimates											
62	Minimum					0.01	Mean					71.54

	A	B	C	D	E	F	G	H	I	J	K	L
63					Maximum	463					Median	33.4
64					SD	93.04					CV	1.3
65					k hat (MLE)	0.324					k star (bias corrected MLE)	0.322
66					Theta hat (MLE)	221					Theta star (bias corrected MLE)	222.3
67					nu hat (MLE)	105.5					nu star (bias corrected)	104.9
68					MLE Mean (bias corrected)	71.54					MLE Sd (bias corrected)	126.1
69											Adjusted Level of Significance (β)	0.0485
70					Approximate Chi Square Value (104.91, α)	82.27					Adjusted Chi Square Value (104.91, β)	82.09
71					95% Gamma Approximate UCL (use when n>=50)	91.23					95% Gamma Adjusted UCL (use when n<50)	91.42
72												
73					**Lognormal GOF Test on Detected Observations Only**							
74					Lilliefors Test Statistic	0.0769			**Lilliefors GOF Test**			
75					5% Lilliefors Critical Value	0.0789			Detected Data appear Lognormal at 5% Significance Level			
76					**Detected Data appear Approximate Lognormal at 5% Significance Level**							
77												
78					**Lognormal ROS Statistics Using Imputed Non-Detects**							
79					Mean in Original Scale	72.54					Mean in Log Scale	3.29
80					SD in Original Scale	92.3					SD in Log Scale	1.642
81					95% t UCL (assumes normality of ROS data)	84.5					95% Percentile Bootstrap UCL	84.69
82					95% BCA Bootstrap UCL	85.93					95% Bootstrap t UCL	85.13
83					95% H-UCL (Log ROS)	148.1						
84												
85					**UCLs using Lognormal Distribution and KM Estimates when Detected data are Lognormally Distributed**							
86					KM Mean (logged)	3.143					95% H-UCL (KM -Log)	183
87					KM SD (logged)	1.812					95% Critical H Value (KM-Log)	2.977
88					KM Standard Error of Mean (logged)	0.149						
89												
90					**DL/2 Statistics**							
91					**DL/2 Normal**				**DL/2 Log-Transformed**			
92					Mean in Original Scale	72.63					Mean in Log Scale	3.34
93					SD in Original Scale	92.23					SD in Log Scale	1.564
94					95% t UCL (Assumes normality)	84.58					95% H-Stat UCL	133.8
95					**DL/2 is not a recommended method, provided for comparisons and historical reasons**							
96												
97					**Nonparametric Distribution Free UCL Statistics**							
98					**Detected Data appear Gamma Distributed at 5% Significance Level**							
99												
100					**Suggested UCL to Use**							
101					95% KM (Chebyshev) UCL	103.7			95% GROS Approximate Gamma UCL			91.23
102					95% Approximate Gamma KM-UCL	85.65						
103												
104	Note: Suggestions regarding the selection of a 95% UCL are provided to help the user to select the most appropriate 95% UCL.											
105	Recommendations are based upon data size, data distribution, and skewness.											
106	These recommendations are based upon the results of the simulation studies summarized in Singh, Maichle, and Lee (2006).											
107	owever, simulations results will not cover all Real World data sets; for additional insight the user may want to consult a statisticia											
108												

	A	B	C	D	E	F	G	H	I	J	K	L
1	UCL Statistics for Data Sets with Non-Detects											
2												
3	User Selected Options											
4	Date/Time of Computation			9/10/2015 12:19:42 PM								
5	From File			proUCL_input_holloman_b.xls								
6	Full Precision			OFF								
7	Confidence Coefficient			95%								
8	mber of Bootstrap Operations			2000								
9												
10	Benzo(a)anthracene_SR859a											
11												
12	General Statistics											
13	Total Number of Observations					48	Number of Distinct Observations					34
14	Number of Detects					27	Number of Non-Detects					21
15	Number of Distinct Detects					24	Number of Distinct Non-Detects					11
16	Minimum Detect					0.0015	Minimum Non-Detect					0.0098
17	Maximum Detect					60	Maximum Non-Detect					0.047
18	Variance Detects					133.5	Percent Non-Detects					43.75%
19	Mean Detects					2.922	SD Detects					11.55
20	Median Detects					0.0329	CV Detects					3.954
21	Skewness Detects					4.998	Kurtosis Detects					25.5
22	Mean of Logged Detects					-2.888	SD of Logged Detects					2.787
23												
24	Normal GOF Test on Detects Only											
25	Shapiro Wilk Test Statistic					0.275	Shapiro Wilk GOF Test					
26	5% Shapiro Wilk Critical Value					0.923	Detected Data Not Normal at 5% Significance Level					
27	Lilliefors Test Statistic					0.426	Lilliefors GOF Test					
28	5% Lilliefors Critical Value					0.171	Detected Data Not Normal at 5% Significance Level					
29	Detected Data Not Normal at 5% Significance Level											
30												
31	Kaplan-Meier (KM) Statistics using Normal Critical Values and other Nonparametric UCLs											
32	Mean					1.648	Standard Error of Mean					1.269
33	SD					8.625	95% KM (BCA) UCL					4.028
34	95% KM (t) UCL					3.777	95% KM (Percentile Bootstrap) UCL					4.138
35	95% KM (z) UCL					3.735	95% KM Bootstrap t UCL					17.69
36	90% KM Chebyshev UCL					5.454	95% KM Chebyshev UCL					7.178
37	97.5% KM Chebyshev UCL					9.57	99% KM Chebyshev UCL					14.27
38												
39	Gamma GOF Tests on Detected Observations Only											
40	A-D Test Statistic					3.182	Anderson-Darling GOF Test					
41	5% A-D Critical Value					0.914	Detected Data Not Gamma Distributed at 5% Significance Level					
42	K-S Test Statistic					0.291	Kolmogrov-Smirnoff GOF					
43	5% K-S Critical Value					0.187	Detected Data Not Gamma Distributed at 5% Significance Level					
44	Detected Data Not Gamma Distributed at 5% Significance Level											
45												
46	Gamma Statistics on Detected Data Only											
47	k hat (MLE)					0.188	k star (bias corrected MLE)					0.192
48	Theta hat (MLE)					15.57	Theta star (bias corrected MLE)					15.26
49	nu hat (MLE)					10.13	nu star (bias corrected)					10.34
50	MLE Mean (bias corrected)					2.922	MLE Sd (bias corrected)					6.677
51												
52	Gamma Kaplan-Meier (KM) Statistics											
53	k hat (KM)					0.0365	nu hat (KM)					3.505
54	Approximate Chi Square Value (3.51, α)					0.537	Adjusted Chi Square Value (3.51, β)					0.504
55	5% Gamma Approximate KM-UCL (use when n>=50)					10.76	95% Gamma Adjusted KM-UCL (use when n<50)					11.45
56	Gamma (KM) may not be used when k hat (KM) is < 0.1											
57												
58	Gamma ROS Statistics using Imputed Non-Detects											
59	GROS may not be used when data set has > 50% NDs with many tied observations at multiple DLs											
60	GROS may not be used when kstar of detected data is small such as < 0.1											
61	For such situations, GROS method tends to yield inflated values of UCLs and BTVs											
62	For gamma distributed detected data, BTVs and UCLs may be computed using gamma distribution on KM estimates											

	A	B	C	D	E	F	G	H	I	J	K	L
63					Minimum	0.0015					Mean	1.648
64					Maximum	60					Median	0.01
65					SD	8.716					CV	5.289
66					k hat (MLE)	0.181					k star (bias corrected MLE)	0.183
67					Theta hat (MLE)	9.124					Theta star (bias corrected MLE)	8.994
68					nu hat (MLE)	17.34					nu star (bias corrected)	17.59
69					MLE Mean (bias corrected)	1.648					MLE Sd (bias corrected)	3.85
70											Adjusted Level of Significance (β)	0.045
71					Approximate Chi Square Value (17.59, α)	9.095					Adjusted Chi Square Value (17.59, β)	8.905
72					95% Gamma Approximate UCL (use when n>=50)	3.187					95% Gamma Adjusted UCL (use when n<50)	3.255
73												
74					**Lognormal GOF Test on Detected Observations Only**							
75					Shapiro Wilk Test Statistic	0.921			**Shapiro Wilk GOF Test**			
76					5% Shapiro Wilk Critical Value	0.923			Detected Data Not Lognormal at 5% Significance Level			
77					Lilliefors Test Statistic	0.13			**Lilliefors GOF Test**			
78					5% Lilliefors Critical Value	0.171			Detected Data appear Lognormal at 5% Significance Level			
79					**Detected Data appear Approximate Lognormal at 5% Significance Level**							
80												
81					**Lognormal ROS Statistics Using Imputed Non-Detects**							
82					Mean in Original Scale	1.649					Mean in Log Scale	-3.749
83					SD in Original Scale	8.716					SD in Log Scale	2.4
84					95% t UCL (assumes normality of ROS data)	3.76					95% Percentile Bootstrap UCL	4.03
85					95% BCA Bootstrap UCL	5.731					95% Bootstrap t UCL	17.46
86					95% H-UCL (Log ROS)	1.805						
87												
88					**UCLs using Lognormal Distribution and KM Estimates when Detected data are Lognormally Distributed**							
89					KM Mean (logged)	-3.827					95% H-UCL (KM -Log)	1.609
90					KM SD (logged)	2.389					95% Critical H Value (KM-Log)	4.154
91					KM Standard Error of Mean (logged)	0.375						
92												
93					**DL/2 Statistics**							
94					**DL/2 Normal**				**DL/2 Log-Transformed**			
95					Mean in Original Scale	1.652					Mean in Log Scale	-3.376
96					SD in Original Scale	8.715					SD in Log Scale	2.165
97					95% t UCL (Assumes normality)	3.763					95% H-Stat UCL	1.195
98					**DL/2 is not a recommended method, provided for comparisons and historical reasons**							
99												
100					**Nonparametric Distribution Free UCL Statistics**							
101					**Detected Data appear Approximate Lognormal Distributed at 5% Significance Level**							
102												
103					**Suggested UCL to Use**							
104					99% KM (Chebyshev) UCL	14.27						
105												
106	Note: Suggestions regarding the selection of a 95% UCL are provided to help the user to select the most appropriate 95% UCL.											
107	Recommendations are based upon data size, data distribution, and skewness.											
108	These recommendations are based upon the results of the simulation studies summarized in Singh, Maichle, and Lee (2006).											
109	owever, simulations results will not cover all Real World data sets; for additional insight the user may want to consult a statisticia											
110												
111	**Benzo(a)pyrene_SR859**											
112												
113					**General Statistics**							
114					Total Number of Observations	48					Number of Distinct Observations	35
115					Number of Detects	26					Number of Non-Detects	22
116					Number of Distinct Detects	25					Number of Distinct Non-Detects	12
117					Minimum Detect	0.0022					Minimum Non-Detect	0.0072
118					Maximum Detect	51					Maximum Non-Detect	0.047
119					Variance Detects	100.4					Percent Non-Detects	45.83%
120					Mean Detects	2.677					SD Detects	10.02
121					Median Detects	0.0381					CV Detects	3.742
122					Skewness Detects	4.851					Kurtosis Detects	24.14
123					Mean of Logged Detects	-2.637					SD of Logged Detects	2.665
124												

	A	B	C	D	E	F	G	H	I	J	K	L
125	**Normal GOF Test on Detects Only**											
126					Shapiro Wilk Test Statistic	0.293	**Shapiro Wilk GOF Test**					
127					5% Shapiro Wilk Critical Value	0.92	Detected Data Not Normal at 5% Significance Level					
128					Lilliefors Test Statistic	0.417	**Lilliefors GOF Test**					
129					5% Lilliefors Critical Value	0.174	Detected Data Not Normal at 5% Significance Level					
130	**Detected Data Not Normal at 5% Significance Level**											
131												
132	**Kaplan-Meier (KM) Statistics using Normal Critical Values and other Nonparametric UCLs**											
133					Mean	1.455			Standard Error of Mean			1.082
134					SD	7.352			95% KM (BCA) UCL			3.736
135					95% KM (t) UCL	3.271			95% KM (Percentile Bootstrap) UCL			3.497
136					95% KM (z) UCL	3.235			95% KM Bootstrap t UCL			14.14
137					90% KM Chebyshev UCL	4.701			95% KM Chebyshev UCL			6.172
138					97.5% KM Chebyshev UCL	8.213			99% KM Chebyshev UCL			12.22
139												
140	**Gamma GOF Tests on Detected Observations Only**											
141					A-D Test Statistic	2.918	**Anderson-Darling GOF Test**					
142					5% A-D Critical Value	0.9	Detected Data Not Gamma Distributed at 5% Significance Level					
143					K-S Test Statistic	0.279	**Kolmogrov-Smirnoff GOF**					
144					5% K-S Critical Value	0.19	Detected Data Not Gamma Distributed at 5% Significance Level					
145	**Detected Data Not Gamma Distributed at 5% Significance Level**											
146												
147	**Gamma Statistics on Detected Data Only**											
148					k hat (MLE)	0.203			k star (bias corrected MLE)			0.205
149					Theta hat (MLE)	13.21			Theta star (bias corrected MLE)			13.06
150					nu hat (MLE)	10.54			nu star (bias corrected)			10.66
151					MLE Mean (bias corrected)	2.677			MLE Sd (bias corrected)			5.913
152												
153	**Gamma Kaplan-Meier (KM) Statistics**											
154					k hat (KM)	0.0392			nu hat (KM)			3.759
155					Approximate Chi Square Value (3.76, α)	0.629			Adjusted Chi Square Value (3.76, β)			0.593
156					5% Gamma Approximate KM-UCL (use when n>=50)	8.695			95% Gamma Adjusted KM-UCL (use when n<50)			9.226
157	Gamma (KM) may not be used when k hat (KM) is < 0.1											
158												
159	**Gamma ROS Statistics using Imputed Non-Detects**											
160	GROS may not be used when data set has > 50% NDs with many tied observations at multiple DLs											
161	GROS may not be used when kstar of detected data is small such as < 0.1											
162	For such situations, GROS method tends to yield inflated values of UCLs and BTVs											
163	For gamma distributed detected data, BTVs and UCLs may be computed using gamma distribution on KM estimates											
164					Minimum	0.0022			Mean			1.455
165					Maximum	51			Median			0.01
166					SD	7.43			CV			5.107
167					k hat (MLE)	0.19			k star (bias corrected MLE)			0.192
168					Theta hat (MLE)	7.673			Theta star (bias corrected MLE)			7.592
169					nu hat (MLE)	18.2			nu star (bias corrected)			18.4
170					MLE Mean (bias corrected)	1.455			MLE Sd (bias corrected)			3.323
171									Adjusted Level of Significance (β)			0.045
172					Approximate Chi Square Value (18.40, α)	9.678			Adjusted Chi Square Value (18.40, β)			9.481
173					95% Gamma Approximate UCL (use when n>=50)	2.765			95% Gamma Adjusted UCL (use when n<50)			2.823
174												
175	**Lognormal GOF Test on Detected Observations Only**											
176					Shapiro Wilk Test Statistic	0.921	**Shapiro Wilk GOF Test**					
177					5% Shapiro Wilk Critical Value	0.92	Detected Data appear Lognormal at 5% Significance Level					
178					Lilliefors Test Statistic	0.145	**Lilliefors GOF Test**					
179					5% Lilliefors Critical Value	0.174	Detected Data appear Lognormal at 5% Significance Level					
180	**Detected Data appear Lognormal at 5% Significance Level**											
181												
182	**Lognormal ROS Statistics Using Imputed Non-Detects**											
183					Mean in Original Scale	1.456			Mean in Log Scale			-3.675
184					SD in Original Scale	7.429			SD in Log Scale			2.366
185					95% t UCL (assumes normality of ROS data)	3.255			95% Percentile Bootstrap UCL			3.581
186					95% BCA Bootstrap UCL	5.463			95% Bootstrap t UCL			14.51

	A	B	C	D	E	F	G	H	I	J	K	L
187					95% H-UCL (Log ROS)	1.728						
188												
189	UCLs using Lognormal Distribution and KM Estimates when Detected data are Lognormally Distributed											
190					KM Mean (logged)	-3.681				95% H-UCL (KM -Log)		1.338
191					KM SD (logged)	2.293				95% Critical H Value (KM-Log)		4.016
192					KM Standard Error of Mean (logged)	0.355						
193												
194	DL/2 Statistics											
195	DL/2 Normal						DL/2 Log-Transformed					
196					Mean in Original Scale	1.459				Mean in Log Scale		-3.297
197					SD in Original Scale	7.429				SD in Log Scale		2.105
198					95% t UCL (Assumes normality)	3.258				95% H-Stat UCL		1.074
199	DL/2 is not a recommended method, provided for comparisons and historical reasons											
200												
201	Nonparametric Distribution Free UCL Statistics											
202	Detected Data appear Lognormal Distributed at 5% Significance Level											
203												
204	Suggested UCL to Use											
205					99% KM (Chebyshev) UCL	12.22						
206												
207	Note: Suggestions regarding the selection of a 95% UCL are provided to help the user to select the most appropriate 95% UCL.											
208	Recommendations are based upon data size, data distribution, and skewness.											
209	These recommendations are based upon the results of the simulation studies summarized in Singh, Maichle, and Lee (2006).											
210	owever, simulations results will not cover all Real World data sets; for additional insight the user may want to consult a statisticia											
211												
212	Benzo(b)fluoranthene_SR859											
213												
214	General Statistics											
215					Total Number of Observations	48				Number of Distinct Observations		36
216					Number of Detects	23				Number of Non-Detects		25
217					Number of Distinct Detects	23				Number of Distinct Non-Detects		14
218					Minimum Detect	0.0024				Minimum Non-Detect		0.0072
219					Maximum Detect	65				Maximum Non-Detect		0.047
220					Variance Detects	182.8				Percent Non-Detects		52.08%
221					Mean Detects	3.703				SD Detects		13.52
222					Median Detects	0.056				CV Detects		3.651
223					Skewness Detects	4.624				Kurtosis Detects		21.79
224					Mean of Logged Detects	-2.106				SD of Logged Detects		2.583
225												
226	Normal GOF Test on Detects Only											
227					Shapiro Wilk Test Statistic	0.297				Shapiro Wilk GOF Test		
228					5% Shapiro Wilk Critical Value	0.914				Detected Data Not Normal at 5% Significance Level		
229					Lilliefors Test Statistic	0.407				Lilliefors GOF Test		
230					5% Lilliefors Critical Value	0.185				Detected Data Not Normal at 5% Significance Level		
231	Detected Data Not Normal at 5% Significance Level											
232												
233	Kaplan-Meier (KM) Statistics using Normal Critical Values and other Nonparametric UCLs											
234					Mean	1.779				Standard Error of Mean		1.378
235					SD	9.337				95% KM (BCA) UCL		4.672
236					95% KM (t) UCL	4.091				95% KM (Percentile Bootstrap) UCL		4.364
237					95% KM (z) UCL	4.046				95% KM Bootstrap t UCL		20.47
238					90% KM Chebyshev UCL	5.913				95% KM Chebyshev UCL		7.786
239					97.5% KM Chebyshev UCL	10.38				99% KM Chebyshev UCL		15.49
240												
241	Gamma GOF Tests on Detected Observations Only											
242					A-D Test Statistic	2.521				Anderson-Darling GOF Test		
243					5% A-D Critical Value	0.891				Detected Data Not Gamma Distributed at 5% Significance Level		
244					K-S Test Statistic	0.279				Kolmogrov-Smirnoff GOF		
245					5% K-S Critical Value	0.2				Detected Data Not Gamma Distributed at 5% Significance Level		
246	Detected Data Not Gamma Distributed at 5% Significance Level											
247												
248	Gamma Statistics on Detected Data Only											

	A	B	C	D	E	F	G	H	I	J	K	L
249					k hat (MLE)	0.213				k star (bias corrected MLE)		0.214
250					Theta hat (MLE)	17.36				Theta star (bias corrected MLE)		17.27
251					nu hat (MLE)	9.812				nu star (bias corrected)		9.866
252					MLE Mean (bias corrected)	3.703				MLE Sd (bias corrected)		7.996
253												
254					**Gamma Kaplan-Meier (KM) Statistics**							
255					k hat (KM)	0.0363				nu hat (KM)		3.485
256					Approximate Chi Square Value (3.49, α)	0.53				Adjusted Chi Square Value (3.49, β)		0.498
257					5% Gamma Approximate KM-UCL (use when n>=50)	11.71				95% Gamma Adjusted KM-UCL (use when n<50)		12.46
258					Gamma (KM) may not be used when k hat (KM) is < 0.1							
259												
260					**Gamma ROS Statistics using Imputed Non-Detects**							
261					GROS may not be used when data set has > 50% NDs with many tied observations at multiple DLs							
262					GROS may not be used when kstar of detected data is small such as < 0.1							
263					For such situations, GROS method tends to yield inflated values of UCLs and BTVs							
264					For gamma distributed detected data, BTVs and UCLs may be computed using gamma distribution on KM estimates							
265					Minimum	0.0024				Mean		1.78
266					Maximum	65				Median		0.01
267					SD	9.436				CV		5.302
268					k hat (MLE)	0.187				k star (bias corrected MLE)		0.189
269					Theta hat (MLE)	9.532				Theta star (bias corrected MLE)		9.42
270					nu hat (MLE)	17.92				nu star (bias corrected)		18.14
271					MLE Mean (bias corrected)	1.78				MLE Sd (bias corrected)		4.094
272										Adjusted Level of Significance (β)		0.045
273					Approximate Chi Square Value (18.14, α)	9.489				Adjusted Chi Square Value (18.14, β)		9.295
274					95% Gamma Approximate UCL (use when n>=50)	3.401				95% Gamma Adjusted UCL (use when n<50)		3.472
275												
276					**Lognormal GOF Test on Detected Observations Only**							
277					Shapiro Wilk Test Statistic	0.942				**Shapiro Wilk GOF Test**		
278					5% Shapiro Wilk Critical Value	0.914				Detected Data appear Lognormal at 5% Significance Level		
279					Lilliefors Test Statistic	0.14				**Lilliefors GOF Test**		
280					5% Lilliefors Critical Value	0.185				Detected Data appear Lognormal at 5% Significance Level		
281					**Detected Data appear Lognormal at 5% Significance Level**							
282												
283					**Lognormal ROS Statistics Using Imputed Non-Detects**							
284					Mean in Original Scale	1.778				Mean in Log Scale		-4.02
285					SD in Original Scale	9.436				SD in Log Scale		2.721
286					95% t UCL (assumes normality of ROS data)	4.063				95% Percentile Bootstrap UCL		4.496
287					95% BCA Bootstrap UCL	6.087				95% Bootstrap t UCL		20.34
288					95% H-UCL (Log ROS)	4.591						
289												
290					**UCLs using Lognormal Distribution and KM Estimates when Detected data are Lognormally Distributed**							
291					KM Mean (logged)	-3.66				95% H-UCL (KM -Log)		1.851
292					KM SD (logged)	2.382				95% Critical H Value (KM-Log)		4.143
293					KM Standard Error of Mean (logged)	0.382						
294												
295					**DL/2 Statistics**							
296					**DL/2 Normal**					**DL/2 Log-Transformed**		
297					Mean in Original Scale	1.783				Mean in Log Scale		-3.222
298					SD in Original Scale	9.435				SD in Log Scale		2.13
299					95% t UCL (Assumes normality)	4.068				95% H-Stat UCL		1.25
300					**DL/2 is not a recommended method, provided for comparisons and historical reasons**							
301												
302					**Nonparametric Distribution Free UCL Statistics**							
303					**Detected Data appear Lognormal Distributed at 5% Significance Level**							
304												
305					**Suggested UCL to Use**							
306					99% KM (Chebyshev) UCL	15.49						
307												
308	Note: Suggestions regarding the selection of a 95% UCL are provided to help the user to select the most appropriate 95% UCL.											
309	Recommendations are based upon data size, data distribution, and skewness.											
310	These recommendations are based upon the results of the simulation studies summarized in Singh, Maichle, and Lee (2006).											

	A	B	C	D	E	F	G	H	I	J	K	L
311	owever, simulations results will not cover all Real World data sets; for additional insight the user may want to consult a statisticia											
312												
313	Benzo(k)fluoranthene_SR859											
314												
315	General Statistics											
316	Total Number of Observations					48	Number of Distinct Observations					33
317	Number of Detects					19	Number of Non-Detects					29
318	Number of Distinct Detects					17	Number of Distinct Non-Detects					18
319	Minimum Detect					0.0092	Minimum Non-Detect					0.0072
320	Maximum Detect					45	Maximum Non-Detect					0.047
321	Variance Detects					106	Percent Non-Detects					60.42%
322	Mean Detects					3.288	SD Detects					10.3
323	Median Detects					0.11	CV Detects					3.131
324	Skewness Detects					4.105	Kurtosis Detects					17.34
325	Mean of Logged Detects					-1.814	SD of Logged Detects					2.486
326												
327	Normal GOF Test on Detects Only											
328	Shapiro Wilk Test Statistic					0.357	Shapiro Wilk GOF Test					
329	5% Shapiro Wilk Critical Value					0.901	Detected Data Not Normal at 5% Significance Level					
330	Lilliefors Test Statistic					0.388	Lilliefors GOF Test					
331	5% Lilliefors Critical Value					0.203	Detected Data Not Normal at 5% Significance Level					
332	Detected Data Not Normal at 5% Significance Level											
333												
334	Kaplan-Meier (KM) Statistics using Normal Critical Values and other Nonparametric UCLs											
335	Mean					1.308	Standard Error of Mean					0.965
336	SD					6.506	95% KM (BCA) UCL					3.265
337	95% KM (t) UCL					2.927	95% KM (Percentile Bootstrap) UCL					3.17
338	95% KM (z) UCL					2.895	95% KM Bootstrap t UCL					11.83
339	90% KM Chebyshev UCL					4.202	95% KM Chebyshev UCL					5.513
340	97.5% KM Chebyshev UCL					7.333	99% KM Chebyshev UCL					10.91
341												
342	Gamma GOF Tests on Detected Observations Only											
343	A-D Test Statistic					1.891	Anderson-Darling GOF Test					
344	5% A-D Critical Value					0.873	Detected Data Not Gamma Distributed at 5% Significance Level					
345	K-S Test Statistic					0.297	Kolmogrov-Smirnoff GOF					
346	5% K-S Critical Value					0.218	Detected Data Not Gamma Distributed at 5% Significance Level					
347	Detected Data Not Gamma Distributed at 5% Significance Level											
348												
349	Gamma Statistics on Detected Data Only											
350	k hat (MLE)					0.238	k star (bias corrected MLE)					0.236
351	Theta hat (MLE)					13.8	Theta star (bias corrected MLE)					13.95
352	nu hat (MLE)					9.052	nu star (bias corrected)					8.956
353	MLE Mean (bias corrected)					3.288	MLE Sd (bias corrected)					6.773
354												
355	Gamma Kaplan-Meier (KM) Statistics											
356	k hat (KM)					0.0404	nu hat (KM)					3.879
357	Approximate Chi Square Value (3.88, α)					0.674	Adjusted Chi Square Value (3.88, β)					0.636
358	5% Gamma Approximate KM-UCL (use when n>=50)					7.521	95% Gamma Adjusted KM-UCL (use when n<50)					7.971
359	Gamma (KM) may not be used when k hat (KM) is < 0.1											
360												
361	Gamma ROS Statistics using Imputed Non-Detects											
362	GROS may not be used when data set has > 50% NDs with many tied observations at multiple DLs											
363	GROS may not be used when kstar of detected data is small such as < 0.1											
364	For such situations, GROS method tends to yield inflated values of UCLs and BTVs											
365	For gamma distributed detected data, BTVs and UCLs may be computed using gamma distribution on KM estimates											
366	Minimum					0.0092	Mean					1.308
367	Maximum					45	Median					0.01
368	SD					6.575	CV					5.028
369	k hat (MLE)					0.196	k star (bias corrected MLE)					0.198
370	Theta hat (MLE)					6.675	Theta star (bias corrected MLE)					6.619
371	nu hat (MLE)					18.81	nu star (bias corrected)					18.96
372	MLE Mean (bias corrected)					1.308	MLE Sd (bias corrected)					2.942

	A	B	C	D	E	F	G	H	I	J	K	L
373											Adjusted Level of Significance (β)	0.045
374					Approximate Chi Square Value (18.96, α)	10.09					Adjusted Chi Square Value (18.96, β)	9.89
375					95% Gamma Approximate UCL (use when n>=50)	2.457					95% Gamma Adjusted UCL (use when n<50)	2.507
376												
377					Lognormal GOF Test on Detected Observations Only							
378					Shapiro Wilk Test Statistic	0.917			Shapiro Wilk GOF Test			
379					5% Shapiro Wilk Critical Value	0.901			Detected Data appear Lognormal at 5% Significance Level			
380					Lilliefors Test Statistic	0.14			Lilliefors GOF Test			
381					5% Lilliefors Critical Value	0.203			Detected Data appear Lognormal at 5% Significance Level			
382					Detected Data appear Lognormal at 5% Significance Level							
383												
384					Lognormal ROS Statistics Using Imputed Non-Detects							
385					Mean in Original Scale	1.303			Mean in Log Scale			-5.093
386					SD in Original Scale	6.576			SD in Log Scale			3.322
387					95% t UCL (assumes normality of ROS data)	2.896			95% Percentile Bootstrap UCL			3.044
388					95% BCA Bootstrap UCL	4.269			95% Bootstrap t UCL			11.74
389					95% H-UCL (Log ROS)	22.36						
390												
391					UCLs using Lognormal Distribution and KM Estimates when Detected data are Lognormally Distributed							
392					KM Mean (logged)	-3.564			95% H-UCL (KM -Log)			0.826
393					KM SD (logged)	2.107			95% Critical H Value (KM-Log)			3.752
394					KM Standard Error of Mean (logged)	0.32						
395												
396					DL/2 Statistics							
397					DL/2 Normal				DL/2 Log-Transformed			
398					Mean in Original Scale	1.311			Mean in Log Scale			-3.382
399					SD in Original Scale	6.574			SD in Log Scale			2.087
400					95% t UCL (Assumes normality)	2.903			95% H-Stat UCL			0.933
401					DL/2 is not a recommended method, provided for comparisons and historical reasons							
402												
403					Nonparametric Distribution Free UCL Statistics							
404					Detected Data appear Lognormal Distributed at 5% Significance Level							
405												
406					Suggested UCL to Use							
407					99% KM (Chebyshev) UCL	10.91						
408												
409	Note: Suggestions regarding the selection of a 95% UCL are provided to help the user to select the most appropriate 95% UCL.											
410					Recommendations are based upon data size, data distribution, and skewness.							
411	These recommendations are based upon the results of the simulation studies summarized in Singh, Maichle, and Lee (2006).											
412	owever, simulations results will not cover all Real World data sets; for additional insight the user may want to consult a statisticia											
413												
414	Chrysene_SR859											
415												
416					General Statistics							
417					Total Number of Observations	48			Number of Distinct Observations			35
418					Number of Detects	28			Number of Non-Detects			20
419					Number of Distinct Detects	26			Number of Distinct Non-Detects			10
420					Minimum Detect	0.0023			Minimum Non-Detect			0.0098
421					Maximum Detect	62			Maximum Non-Detect			0.047
422					Variance Detects	137.7			Percent Non-Detects			41.67%
423					Mean Detects	2.937			SD Detects			11.73
424					Median Detects	0.033			CV Detects			3.995
425					Skewness Detects	5.078			Kurtosis Detects			26.35
426					Mean of Logged Detects	-2.823			SD of Logged Detects			2.733
427												
428					Normal GOF Test on Detects Only							
429					Shapiro Wilk Test Statistic	0.273			Shapiro Wilk GOF Test			
430					5% Shapiro Wilk Critical Value	0.924			Detected Data Not Normal at 5% Significance Level			
431					Lilliefors Test Statistic	0.428			Lilliefors GOF Test			
432					5% Lilliefors Critical Value	0.167			Detected Data Not Normal at 5% Significance Level			
433					Detected Data Not Normal at 5% Significance Level							
434												

	A	B	C	D	E	F	G	H	I	J	K	L
435	**Kaplan-Meier (KM) Statistics using Normal Critical Values and other Nonparametric UCLs**											
436					Mean	1.717				Standard Error of Mean		1.311
437					SD	8.917				95% KM (BCA) UCL		4.201
438					95% KM (t) UCL	3.917				95% KM (Percentile Bootstrap) UCL		4.178
439					95% KM (z) UCL	3.873				95% KM Bootstrap t UCL		15.32
440					90% KM Chebyshev UCL	5.65				95% KM Chebyshev UCL		7.431
441					97.5% KM Chebyshev UCL	9.903				99% KM Chebyshev UCL		14.76
442												
443	**Gamma GOF Tests on Detected Observations Only**											
444					A-D Test Statistic	3.374				**Anderson-Darling GOF Test**		
445					5% A-D Critical Value	0.912				Detected Data Not Gamma Distributed at 5% Significance Level		
446					K-S Test Statistic	0.279				**Kolmogrov-Smirnoff GOF**		
447					5% K-S Critical Value	0.184				Detected Data Not Gamma Distributed at 5% Significance Level		
448	**Detected Data Not Gamma Distributed at 5% Significance Level**											
449												
450	**Gamma Statistics on Detected Data Only**											
451					k hat (MLE)	0.19				k star (bias corrected MLE)		0.194
452					Theta hat (MLE)	15.44				Theta star (bias corrected MLE)		15.17
453					nu hat (MLE)	10.65				nu star (bias corrected)		10.84
454					MLE Mean (bias corrected)	2.937				MLE Sd (bias corrected)		6.675
455												
456	**Gamma Kaplan-Meier (KM) Statistics**											
457					k hat (KM)	0.0371				nu hat (KM)		3.561
458					Approximate Chi Square Value (3.56, α)	0.556				Adjusted Chi Square Value (3.56, β)		0.523
459					5% Gamma Approximate KM-UCL (use when n>=50)	10.99				95% Gamma Adjusted KM-UCL (use when n<50)		11.69
460	Gamma (KM) may not be used when k hat (KM) is < 0.1											
461												
462	**Gamma ROS Statistics using Imputed Non-Detects**											
463	GROS may not be used when data set has > 50% NDs with many tied observations at multiple DLs											
464	GROS may not be used when kstar of detected data is small such as < 0.1											
465	For such situations, GROS method tends to yield inflated values of UCLs and BTVs											
466	For gamma distributed detected data, BTVs and UCLs may be computed using gamma distribution on KM estimates											
467					Minimum	0.0023				Mean		1.717
468					Maximum	62				Median		0.01
469					SD	9.012				CV		5.247
470					k hat (MLE)	0.182				k star (bias corrected MLE)		0.184
471					Theta hat (MLE)	9.443				Theta star (bias corrected MLE)		9.314
472					nu hat (MLE)	17.46				nu star (bias corrected)		17.7
473					MLE Mean (bias corrected)	1.717				MLE Sd (bias corrected)		3.999
474										Adjusted Level of Significance (β)		0.045
475					Approximate Chi Square Value (17.70, α)	9.176				Adjusted Chi Square Value (17.70, β)		8.985
476					95% Gamma Approximate UCL (use when n>=50)	3.313				95% Gamma Adjusted UCL (use when n<50)		3.384
477												
478	**Lognormal GOF Test on Detected Observations Only**											
479					Shapiro Wilk Test Statistic	0.907				**Shapiro Wilk GOF Test**		
480					5% Shapiro Wilk Critical Value	0.924				Detected Data Not Lognormal at 5% Significance Level		
481					Lilliefors Test Statistic	0.166				**Lilliefors GOF Test**		
482					5% Lilliefors Critical Value	0.167				Detected Data appear Lognormal at 5% Significance Level		
483	**Detected Data appear Approximate Lognormal at 5% Significance Level**											
484												
485	**Lognormal ROS Statistics Using Imputed Non-Detects**											
486					Mean in Original Scale	1.719				Mean in Log Scale		-3.628
487					SD in Original Scale	9.011				SD in Log Scale		2.38
488					95% t UCL (assumes normality of ROS data)	3.901				95% Percentile Bootstrap UCL		4.252
489					95% BCA Bootstrap UCL	5.966				95% Bootstrap t UCL		15.42
490					95% H-UCL (Log ROS)	1.901						
491												
492	**UCLs using Lognormal Distribution and KM Estimates when Detected data are Lognormally Distributed**											
493					KM Mean (logged)	-3.711				95% H-UCL (KM -Log)		1.633
494					KM SD (logged)	2.36				95% Critical H Value (KM-Log)		4.112
495					KM Standard Error of Mean (logged)	0.363						
496												

	A	B	C	D	E	F	G	H	I	J	K	L
497						DL/2 Statistics						
498				DL/2 Normal					DL/2 Log-Transformed			
499					Mean in Original Scale	1.722				Mean in Log Scale		-3.289
500					SD in Original Scale	9.011				SD in Log Scale		2.155
501					95% t UCL (Assumes normality)	3.904				95% H-Stat UCL		1.264
502					DL/2 is not a recommended method, provided for comparisons and historical reasons							
503												
504					Nonparametric Distribution Free UCL Statistics							
505					Detected Data appear Approximate Lognormal Distributed at 5% Significance Level							
506												
507					Suggested UCL to Use							
508					99% KM (Chebyshev) UCL	14.76						
509												
510	Note: Suggestions regarding the selection of a 95% UCL are provided to help the user to select the most appropriate 95% UCL.											
511					Recommendations are based upon data size, data distribution, and skewness.							
512	These recommendations are based upon the results of the simulation studies summarized in Singh, Maichle, and Lee (2006).											
513	owever, simulations results will not cover all Real World data sets; for additional insight the user may want to consult a statisticia											
514												
515	Dibenz(a,h)anthracene_SR859											
516												
517					General Statistics							
518					Total Number of Observations	48				Number of Distinct Observations		34
519					Number of Detects	16				Number of Non-Detects		32
520					Number of Distinct Detects	16				Number of Distinct Non-Detects		19
521					Minimum Detect	0.0022				Minimum Non-Detect		0.0072
522					Maximum Detect	9.2				Maximum Non-Detect		0.047
523					Variance Detects	5.203				Percent Non-Detects		66.67%
524					Mean Detects	0.823				SD Detects		2.281
525					Median Detects	0.045				CV Detects		2.773
526					Skewness Detects	3.742				Kurtosis Detects		14.44
527					Mean of Logged Detects	-2.77				SD of Logged Detects		2.458
528												
529					Normal GOF Test on Detects Only							
530					Shapiro Wilk Test Statistic	0.404				Shapiro Wilk GOF Test		
531					5% Shapiro Wilk Critical Value	0.887				Detected Data Not Normal at 5% Significance Level		
532					Lilliefors Test Statistic	0.361				Lilliefors GOF Test		
533					5% Lilliefors Critical Value	0.222				Detected Data Not Normal at 5% Significance Level		
534					Detected Data Not Normal at 5% Significance Level							
535												
536					Kaplan-Meier (KM) Statistics using Normal Critical Values and other Nonparametric UCLs							
537					Mean	0.278				Standard Error of Mean		0.199
538					SD	1.332				95% KM (BCA) UCL		0.656
539					95% KM (t) UCL	0.611				95% KM (Percentile Bootstrap) UCL		0.668
540					95% KM (z) UCL	0.605				95% KM Bootstrap t UCL		2.003
541					90% KM Chebyshev UCL	0.874				95% KM Chebyshev UCL		1.144
542					97.5% KM Chebyshev UCL	1.518				99% KM Chebyshev UCL		2.254
543												
544					Gamma GOF Tests on Detected Observations Only							
545					A-D Test Statistic	1.091				Anderson-Darling GOF Test		
546					5% A-D Critical Value	0.851				Detected Data Not Gamma Distributed at 5% Significance Level		
547					K-S Test Statistic	0.242				Kolmogrov-Smirnoff GOF		
548					5% K-S Critical Value	0.234				Detected Data Not Gamma Distributed at 5% Significance Level		
549					Detected Data Not Gamma Distributed at 5% Significance Level							
550												
551					Gamma Statistics on Detected Data Only							
552					k hat (MLE)	0.272				k star (bias corrected MLE)		0.263
553					Theta hat (MLE)	3.023				Theta star (bias corrected MLE)		3.13
554					nu hat (MLE)	8.709				nu star (bias corrected)		8.409
555					MLE Mean (bias corrected)	0.823				MLE Sd (bias corrected)		1.605
556												
557					Gamma Kaplan-Meier (KM) Statistics							
558					k hat (KM)	0.0436				nu hat (KM)		4.183

	A	B	C	D	E	F	G	H	I	J	K	L
559	Approximate Chi Square Value (4.18, α)					0.795	Adjusted Chi Square Value (4.18, β)					0.752
560	5% Gamma Approximate KM-UCL (use when n>=50)					1.462	95% Gamma Adjusted KM-UCL (use when n<50)					1.546
561	Gamma (KM) may not be used when k hat (KM) is < 0.1											
562												
563	**Gamma ROS Statistics using Imputed Non-Detects**											
564	GROS may not be used when data set has > 50% NDs with many tied observations at multiple DLs											
565	GROS may not be used when kstar of detected data is small such as < 0.1											
566	For such situations, GROS method tends to yield inflated values of UCLs and BTVs											
567	For gamma distributed detected data, BTVs and UCLs may be computed using gamma distribution on KM estimates											
568	Minimum					0.0022	Mean					0.281
569	Maximum					9.2	Median					0.01
570	SD					1.345	CV					4.79
571	k hat (MLE)					0.259	k star (bias corrected MLE)					0.257
572	Theta hat (MLE)					1.083	Theta star (bias corrected MLE)					1.093
573	nu hat (MLE)					24.89	nu star (bias corrected)					24.67
574	MLE Mean (bias corrected)					0.281	MLE Sd (bias corrected)					0.554
575							Adjusted Level of Significance (β)					0.045
576	Approximate Chi Square Value (24.67, α)					14.36	Adjusted Chi Square Value (24.67, β)					14.11
577	95% Gamma Approximate UCL (use when n>=50)					0.483	95% Gamma Adjusted UCL (use when n<50)					0.491
578												
579	**Lognormal GOF Test on Detected Observations Only**											
580	Shapiro Wilk Test Statistic					0.959	**Shapiro Wilk GOF Test**					
581	5% Shapiro Wilk Critical Value					0.887	Detected Data appear Lognormal at 5% Significance Level					
582	Lilliefors Test Statistic					0.1	**Lilliefors GOF Test**					
583	5% Lilliefors Critical Value					0.222	Detected Data appear Lognormal at 5% Significance Level					
584	**Detected Data appear Lognormal at 5% Significance Level**											
585												
586	**Lognormal ROS Statistics Using Imputed Non-Detects**											
587	Mean in Original Scale					0.278	Mean in Log Scale					-4.79
588	SD in Original Scale					1.346	SD in Log Scale					2.167
589	95% t UCL (assumes normality of ROS data)					0.604	95% Percentile Bootstrap UCL					0.662
590	95% BCA Bootstrap UCL					0.91	95% Bootstrap t UCL					2.336
591	95% H-UCL (Log ROS)					0.292						
592												
593	**UCLs using Lognormal Distribution and KM Estimates when Detected data are Lognormally Distributed**											
594	KM Mean (logged)					-4.626	95% H-UCL (KM -Log)					0.206
595	KM SD (logged)					1.998	95% Critical H Value (KM-Log)					3.598
596	KM Standard Error of Mean (logged)					0.338						
597												
598	**DL/2 Statistics**											
599	**DL/2 Normal**						**DL/2 Log-Transformed**					
600	Mean in Original Scale					0.284	Mean in Log Scale					-3.897
601	SD in Original Scale					1.345	SD in Log Scale					1.726
602	95% t UCL (Assumes normality)					0.61	95% H-Stat UCL					0.203
603	**DL/2 is not a recommended method, provided for comparisons and historical reasons**											
604												
605	**Nonparametric Distribution Free UCL Statistics**											
606	**Detected Data appear Lognormal Distributed at 5% Significance Level**											
607												
608	**Suggested UCL to Use**											
609	99% KM (Chebyshev) UCL					2.254						
610												
611	Note: Suggestions regarding the selection of a 95% UCL are provided to help the user to select the most appropriate 95% UCL.											
612	Recommendations are based upon data size, data distribution, and skewness.											
613	These recommendations are based upon the results of the simulation studies summarized in Singh, Maichle, and Lee (2006).											
614	owever, simulations results will not cover all Real World data sets; for additional insight the user may want to consult a statisticia											
615												
616	**Indeno(1,2,3-cd)pyrene_SR859**											
617												
618	**General Statistics**											
619	Total Number of Observations					48	Number of Distinct Observations					36
620	Number of Detects					26	Number of Non-Detects					22

	A	B	C	D	E	F	G	H	I	J	K	L
621					Number of Distinct Detects	25				Number of Distinct Non-Detects		12
622					Minimum Detect	0.002				Minimum Non-Detect		0.0072
623					Maximum Detect	30				Maximum Non-Detect		0.047
624					Variance Detects	34.81				Percent Non-Detects		45.83%
625					Mean Detects	1.61				SD Detects		5.9
626					Median Detects	0.0282				CV Detects		3.665
627					Skewness Detects	4.819				Kurtosis Detects		23.89
628					Mean of Logged Detects	-2.897				SD of Logged Detects		2.535
629												
630					**Normal GOF Test on Detects Only**							
631					Shapiro Wilk Test Statistic	0.3			**Shapiro Wilk GOF Test**			
632					5% Shapiro Wilk Critical Value	0.92			Detected Data Not Normal at 5% Significance Level			
633					Lilliefors Test Statistic	0.411			**Lilliefors GOF Test**			
634					5% Lilliefors Critical Value	0.174			Detected Data Not Normal at 5% Significance Level			
635					**Detected Data Not Normal at 5% Significance Level**							
636												
637					**Kaplan-Meier (KM) Statistics using Normal Critical Values and other Nonparametric UCLs**							
638					Mean	0.876				Standard Error of Mean		0.638
639					SD	4.332				95% KM (BCA) UCL		2.099
640					95% KM (t) UCL	1.946				95% KM (Percentile Bootstrap) UCL		2.054
641					95% KM (z) UCL	1.925				95% KM Bootstrap t UCL		8.433
642					90% KM Chebyshev UCL	2.789				95% KM Chebyshev UCL		3.655
643					97.5% KM Chebyshev UCL	4.858				99% KM Chebyshev UCL		7.22
644												
645					**Gamma GOF Tests on Detected Observations Only**							
646					A-D Test Statistic	2.895			**Anderson-Darling GOF Test**			
647					5% A-D Critical Value	0.894			Detected Data Not Gamma Distributed at 5% Significance Level			
648					K-S Test Statistic	0.26			**Kolmogrov-Smirnoff GOF**			
649					5% K-S Critical Value	0.19			Detected Data Not Gamma Distributed at 5% Significance Level			
650					**Detected Data Not Gamma Distributed at 5% Significance Level**							
651												
652					**Gamma Statistics on Detected Data Only**							
653					k hat (MLE)	0.216				k star (bias corrected MLE)		0.216
654					Theta hat (MLE)	7.465				Theta star (bias corrected MLE)		7.439
655					nu hat (MLE)	11.21				nu star (bias corrected)		11.25
656					MLE Mean (bias corrected)	1.61				MLE Sd (bias corrected)		3.46
657												
658					**Gamma Kaplan-Meier (KM) Statistics**							
659					k hat (KM)	0.0409				nu hat (KM)		3.928
660					Approximate Chi Square Value (3.93, α)	0.693				Adjusted Chi Square Value (3.93, β)		0.654
661					5% Gamma Approximate KM-UCL (use when n>=50)	4.964				95% Gamma Adjusted KM-UCL (use when n<50)		5.258
662					Gamma (KM) may not be used when k hat (KM) is < 0.1							
663												
664					**Gamma ROS Statistics using Imputed Non-Detects**							
665					GROS may not be used when data set has > 50% NDs with many tied observations at multiple DLs							
666					GROS may not be used when kstar of detected data is small such as < 0.1							
667					For such situations, GROS method tends to yield inflated values of UCLs and BTVs							
668					For gamma distributed detected data, BTVs and UCLs may be computed using gamma distribution on KM estimates							
669					Minimum	0.002				Mean		0.877
670					Maximum	30				Median		0.01
671					SD	4.378				CV		4.994
672					k hat (MLE)	0.206				k star (bias corrected MLE)		0.207
673					Theta hat (MLE)	4.247				Theta star (bias corrected MLE)		4.226
674					nu hat (MLE)	19.82				nu star (bias corrected)		19.91
675					MLE Mean (bias corrected)	0.877				MLE Sd (bias corrected)		1.925
676										Adjusted Level of Significance (β)		0.045
677					Approximate Chi Square Value (19.91, α)	10.78				Adjusted Chi Square Value (19.91, β)		10.58
678					95% Gamma Approximate UCL (use when n>=50)	1.618				95% Gamma Adjusted UCL (use when n<50)		1.65
679												
680					**Lognormal GOF Test on Detected Observations Only**							
681					Shapiro Wilk Test Statistic	0.921			**Shapiro Wilk GOF Test**			
682					5% Shapiro Wilk Critical Value	0.92			Detected Data appear Lognormal at 5% Significance Level			

	A	B	C	D	E	F	G	H	I	J	K	L
683					Lilliefors Test Statistic	0.142	**Lilliefors GOF Test**					
684					5% Lilliefors Critical Value	0.174	Detected Data appear Lognormal at 5% Significance Level					
685	**Detected Data appear Lognormal at 5% Significance Level**											
686												
687	**Lognormal ROS Statistics Using Imputed Non-Detects**											
688					Mean in Original Scale	0.877			Mean in Log Scale			-3.809
689					SD in Original Scale	4.377			SD in Log Scale			2.206
690					95% t UCL (assumes normality of ROS data)	1.937			95% Percentile Bootstrap UCL			2.081
691					95% BCA Bootstrap UCL	2.839			95% Bootstrap t UCL			8.121
692					95% H-UCL (Log ROS)	0.883						
693												
694	**UCLs using Lognormal Distribution and KM Estimates when Detected data are Lognormally Distributed**											
695					KM Mean (logged)	-3.842			95% H-UCL (KM -Log)			0.735
696					KM SD (logged)	2.159			95% Critical H Value (KM-Log)			3.824
697					KM Standard Error of Mean (logged)	0.337						
698												
699	**DL/2 Statistics**											
700	**DL/2 Normal**						**DL/2 Log-Transformed**					
701					Mean in Original Scale	0.88			Mean in Log Scale			-3.437
702					SD in Original Scale	4.377			SD in Log Scale			1.975
703					95% t UCL (Assumes normality)	1.94			95% H-Stat UCL			0.631
704	**DL/2 is not a recommended method, provided for comparisons and historical reasons**											
705												
706	**Nonparametric Distribution Free UCL Statistics**											
707	**Detected Data appear Lognormal Distributed at 5% Significance Level**											
708												
709	**Suggested UCL to Use**											
710					99% KM (Chebyshev) UCL	7.22						
711												
712	Note: Suggestions regarding the selection of a 95% UCL are provided to help the user to select the most appropriate 95% UCL.											
713	Recommendations are based upon data size, data distribution, and skewness.											
714	These recommendations are based upon the results of the simulation studies summarized in Singh, Maichle, and Lee (2006).											
715	owever, simulations results will not cover all Real World data sets; for additional insight the user may want to consult a statisticia											
716												

	A	B	C	D	E	F	G	H	I	J	K	L
1	**UCL Statistics for Data Sets with Non-Detects**											
2												
3	User Selected Options											
4	Date/Time of Computation			9/10/2015 12:24:07 PM								
5	From File			proUCL_input_holloman_e.xls								
6	Full Precision			OFF								
7	Confidence Coefficient			95%								
8	mber of Bootstrap Operations			2000								
9												
10	**Benzo(a)anthracene_TS862**											
11												
12	**General Statistics**											
13	Total Number of Observations					61	Number of Distinct Observations					40
14	Number of Detects					26	Number of Non-Detects					35
15	Number of Distinct Detects					24	Number of Distinct Non-Detects					18
16	Minimum Detect					0.0029	Minimum Non-Detect					0.0081
17	Maximum Detect					180	Maximum Non-Detect					0.28
18	Variance Detects					1238	Percent Non-Detects					57.38%
19	Mean Detects					7.968	SD Detects					35.19
20	Median Detects					0.0815	CV Detects					4.416
21	Skewness Detects					5.054	Kurtosis Detects					25.67
22	Mean of Logged Detects					-2.177	SD of Logged Detects					2.919
23												
24	**Normal GOF Test on Detects Only**											
25	Shapiro Wilk Test Statistic					0.238	**Shapiro Wilk GOF Test**					
26	5% Shapiro Wilk Critical Value					0.92	Detected Data Not Normal at 5% Significance Level					
27	Lilliefors Test Statistic					0.459	**Lilliefors GOF Test**					
28	5% Lilliefors Critical Value					0.174	Detected Data Not Normal at 5% Significance Level					
29	**Detected Data Not Normal at 5% Significance Level**											
30												
31	**Kaplan-Meier (KM) Statistics using Normal Critical Values and other Nonparametric UCLs**											
32	Mean					3.4	Standard Error of Mean					2.986
33	SD					22.87	95% KM (BCA) UCL					9.467
34	95% KM (t) UCL					8.389	95% KM (Percentile Bootstrap) UCL					9.204
35	95% KM (z) UCL					8.312	95% KM Bootstrap t UCL					81.48
36	90% KM Chebyshev UCL					12.36	95% KM Chebyshev UCL					16.42
37	97.5% KM Chebyshev UCL					22.05	99% KM Chebyshev UCL					33.11
38												
39	**Gamma GOF Tests on Detected Observations Only**											
40	A-D Test Statistic					3.034	**Anderson-Darling GOF Test**					
41	5% A-D Critical Value					0.923	Detected Data Not Gamma Distributed at 5% Significance Level					
42	K-S Test Statistic					0.301	**Kolmogrov-Smirnoff GOF**					
43	5% K-S Critical Value					0.192	Detected Data Not Gamma Distributed at 5% Significance Level					
44	**Detected Data Not Gamma Distributed at 5% Significance Level**											
45												
46	**Gamma Statistics on Detected Data Only**											
47	k hat (MLE)					0.176	k star (bias corrected MLE)					0.182
48	Theta hat (MLE)					45.17	Theta star (bias corrected MLE)					43.85
49	nu hat (MLE)					9.174	nu star (bias corrected)					9.449
50	MLE Mean (bias corrected)					7.968	MLE Sd (bias corrected)					18.69
51												
52	**Gamma Kaplan-Meier (KM) Statistics**											
53	k hat (KM)					0.0221	nu hat (KM)					2.698
54	Approximate Chi Square Value (2.70, α)					0.289	Adjusted Chi Square Value (2.70, β)					0.274
55	5% Gamma Approximate KM-UCL (use when n>=50)					31.76	95% Gamma Adjusted KM-UCL (use when n<50)					33.49
56	Gamma (KM) may not be used when k hat (KM) is < 0.1											
57												
58	**Gamma ROS Statistics using Imputed Non-Detects**											
59	GROS may not be used when data set has > 50% NDs with many tied observations at multiple DLs											
60	GROS may not be used when kstar of detected data is small such as < 0.1											
61	For such situations, GROS method tends to yield inflated values of UCLs and BTVs											
62	For gamma distributed detected data, BTVs and UCLs may be computed using gamma distribution on KM estimates											

	A	B	C	D	E	F	G	H	I	J	K	L
63					Minimum	0.0029					Mean	3.402
64					Maximum	180					Median	0.01
65					SD	23.06					CV	6.777
66					k hat (MLE)	0.159					k star (bias corrected MLE)	0.162
67					Theta hat (MLE)	21.4					Theta star (bias corrected MLE)	20.99
68					nu hat (MLE)	19.39					nu star (bias corrected)	19.77
69					MLE Mean (bias corrected)	3.402					MLE Sd (bias corrected)	8.451
70											Adjusted Level of Significance (β)	0.0461
71					Approximate Chi Square Value (19.77, α)	10.68					Adjusted Chi Square Value (19.77, β)	10.52
72					95% Gamma Approximate UCL (use when n>=50)	6.297					95% Gamma Adjusted UCL (use when n<50)	6.394
73												
74					**Lognormal GOF Test on Detected Observations Only**							
75					Shapiro Wilk Test Statistic	0.928			**Shapiro Wilk GOF Test**			
76					5% Shapiro Wilk Critical Value	0.92			Detected Data appear Lognormal at 5% Significance Level			
77					Lilliefors Test Statistic	0.118			**Lilliefors GOF Test**			
78					5% Lilliefors Critical Value	0.174			Detected Data appear Lognormal at 5% Significance Level			
79					**Detected Data appear Lognormal at 5% Significance Level**							
80												
81					**Lognormal ROS Statistics Using Imputed Non-Detects**							
82					Mean in Original Scale	3.402					Mean in Log Scale	-4.081
83					SD in Original Scale	23.06					SD in Log Scale	2.694
84					95% t UCL (assumes normality of ROS data)	8.334					95% Percentile Bootstrap UCL	9.313
85					95% BCA Bootstrap UCL	12.59					95% Bootstrap t UCL	79.49
86					95% H-UCL (Log ROS)	2.289						
87												
88					**UCLs using Lognormal Distribution and KM Estimates when Detected data are Lognormally Distributed**							
89					KM Mean (logged)	-3.929					95% H-UCL (KM -Log)	1.166
90					KM SD (logged)	2.447					95% Critical H Value (KM-Log)	3.443
91					KM Standard Error of Mean (logged)	0.332						
92												
93					**DL/2 Statistics**							
94					**DL/2 Normal**				**DL/2 Log-Transformed**			
95					Mean in Original Scale	3.407					Mean in Log Scale	-3.454
96					SD in Original Scale	23.06					SD in Log Scale	2.285
97					95% t UCL (Assumes normality)	8.339					95% H-Stat UCL	1.163
98					**DL/2 is not a recommended method, provided for comparisons and historical reasons**							
99												
100					**Nonparametric Distribution Free UCL Statistics**							
101					**Detected Data appear Lognormal Distributed at 5% Significance Level**							
102												
103					**Suggested UCL to Use**							
104					97.5% KM (Chebyshev) UCL	22.05						
105												
106	Note: Suggestions regarding the selection of a 95% UCL are provided to help the user to select the most appropriate 95% UCL.											
107	Recommendations are based upon data size, data distribution, and skewness.											
108	These recommendations are based upon the results of the simulation studies summarized in Singh, Maichle, and Lee (2006).											
109	owever, simulations results will not cover all Real World data sets; for additional insight the user may want to consult a statisticia											
110												
111	**Benzo(a)pyrene_TS862**											
112												
113					**General Statistics**							
114					Total Number of Observations	61					Number of Distinct Observations	42
115					Number of Detects	26					Number of Non-Detects	35
116					Number of Distinct Detects	24					Number of Distinct Non-Detects	18
117					Minimum Detect	0.0029					Minimum Non-Detect	0.0081
118					Maximum Detect	170					Maximum Non-Detect	0.28
119					Variance Detects	1104					Percent Non-Detects	57.38%
120					Mean Detects	7.591					SD Detects	33.23
121					Median Detects	0.0975					CV Detects	4.378
122					Skewness Detects	5.048					Kurtosis Detects	25.63
123					Mean of Logged Detects	-2.09					SD of Logged Detects	2.876
124												

	A	B	C	D	E	F	G	H	I	J	K	L
125	**Normal GOF Test on Detects Only**											
126					Shapiro Wilk Test Statistic	0.241	**Shapiro Wilk GOF Test**					
127					5% Shapiro Wilk Critical Value	0.92	Detected Data Not Normal at 5% Significance Level					
128					Lilliefors Test Statistic	0.459	**Lilliefors GOF Test**					
129					5% Lilliefors Critical Value	0.174	Detected Data Not Normal at 5% Significance Level					
130	**Detected Data Not Normal at 5% Significance Level**											
131												
132	**Kaplan-Meier (KM) Statistics using Normal Critical Values and other Nonparametric UCLs**											
133					Mean	3.239			Standard Error of Mean			2.821
134					SD	21.6			95% KM (BCA) UCL			8.718
135					95% KM (t) UCL	7.951			95% KM (Percentile Bootstrap) UCL			8.731
136					95% KM (z) UCL	7.879			95% KM Bootstrap t UCL			70.8
137					90% KM Chebyshev UCL	11.7			95% KM Chebyshev UCL			15.53
138					97.5% KM Chebyshev UCL	20.85			99% KM Chebyshev UCL			31.3
139												
140	**Gamma GOF Tests on Detected Observations Only**											
141					A-D Test Statistic	2.929	**Anderson-Darling GOF Test**					
142					5% A-D Critical Value	0.919	Detected Data Not Gamma Distributed at 5% Significance Level					
143					K-S Test Statistic	0.303	**Kolmogrov-Smirnoff GOF**					
144					5% K-S Critical Value	0.192	Detected Data Not Gamma Distributed at 5% Significance Level					
145	**Detected Data Not Gamma Distributed at 5% Significance Level**											
146												
147	**Gamma Statistics on Detected Data Only**											
148					k hat (MLE)	0.181			k star (bias corrected MLE)			0.186
149					Theta hat (MLE)	41.83			Theta star (bias corrected MLE)			40.78
150					nu hat (MLE)	9.435			nu star (bias corrected)			9.68
151					MLE Mean (bias corrected)	7.591			MLE Sd (bias corrected)			17.59
152												
153	**Gamma Kaplan-Meier (KM) Statistics**											
154					k hat (KM)	0.0225			nu hat (KM)			2.743
155					Approximate Chi Square Value (2.74, α)	0.301			Adjusted Chi Square Value (2.74, β)			0.285
156					5% Gamma Approximate KM-UCL (use when n>=50)	29.56			95% Gamma Adjusted KM-UCL (use when n<50)			31.16
157	Gamma (KM) may not be used when k hat (KM) is < 0.1											
158												
159	**Gamma ROS Statistics using Imputed Non-Detects**											
160	GROS may not be used when data set has > 50% NDs with many tied observations at multiple DLs											
161	GROS may not be used when kstar of detected data is small such as < 0.1											
162	For such situations, GROS method tends to yield inflated values of UCLs and BTVs											
163	For gamma distributed detected data, BTVs and UCLs may be computed using gamma distribution on KM estimates											
164					Minimum	0.0029			Mean			3.241
165					Maximum	170			Median			0.01
166					SD	21.78			CV			6.72
167					k hat (MLE)	0.161			k star (bias corrected MLE)			0.164
168					Theta hat (MLE)	20.07			Theta star (bias corrected MLE)			19.71
169					nu hat (MLE)	19.7			nu star (bias corrected)			20.06
170					MLE Mean (bias corrected)	3.241			MLE Sd (bias corrected)			7.993
171									Adjusted Level of Significance (β)			0.0461
172					Approximate Chi Square Value (20.06, α)	10.9			Adjusted Chi Square Value (20.06, β)			10.73
173					95% Gamma Approximate UCL (use when n>=50)	5.967			95% Gamma Adjusted UCL (use when n<50)			6.058
174												
175	**Lognormal GOF Test on Detected Observations Only**											
176					Shapiro Wilk Test Statistic	0.937	**Shapiro Wilk GOF Test**					
177					5% Shapiro Wilk Critical Value	0.92	Detected Data appear Lognormal at 5% Significance Level					
178					Lilliefors Test Statistic	0.122	**Lilliefors GOF Test**					
179					5% Lilliefors Critical Value	0.174	Detected Data appear Lognormal at 5% Significance Level					
180	**Detected Data appear Lognormal at 5% Significance Level**											
181												
182	**Lognormal ROS Statistics Using Imputed Non-Detects**											
183					Mean in Original Scale	3.24			Mean in Log Scale			-4.045
184					SD in Original Scale	21.78			SD in Log Scale			2.688
185					95% t UCL (assumes normality of ROS data)	7.899			95% Percentile Bootstrap UCL			8.766
186					95% BCA Bootstrap UCL	11.8			95% Bootstrap t UCL			71.4

	A	B	C	D	E	F	G	H	I	J	K	L
187					95% H-UCL (Log ROS)	2.321						
188												
189	**UCLs using Lognormal Distribution and KM Estimates when Detected data are Lognormally Distributed**											
190					KM Mean (logged)	-3.89				95% H-UCL (KM -Log)		1.185
191					KM SD (logged)	2.44				95% Critical H Value (KM-Log)		3.44
192					KM Standard Error of Mean (logged)	0.331						
193												
194	**DL/2 Statistics**											
195	**DL/2 Normal**						**DL/2 Log-Transformed**					
196					Mean in Original Scale	3.246				Mean in Log Scale		-3.417
197					SD in Original Scale	21.78				SD in Log Scale		2.284
198					95% t UCL (Assumes normality)	7.905				95% H-Stat UCL		1.201
199	**DL/2 is not a recommended method, provided for comparisons and historical reasons**											
200												
201	**Nonparametric Distribution Free UCL Statistics**											
202	**Detected Data appear Lognormal Distributed at 5% Significance Level**											
203												
204	**Suggested UCL to Use**											
205					97.5% KM (Chebyshev) UCL	20.85						
206												
207	Note: Suggestions regarding the selection of a 95% UCL are provided to help the user to select the most appropriate 95% UCL.											
208	Recommendations are based upon data size, data distribution, and skewness.											
209	These recommendations are based upon the results of the simulation studies summarized in Singh, Maichle, and Lee (2006).											
210	owever, simulations results will not cover all Real World data sets; for additional insight the user may want to consult a statisticia											
211												
212	**Benzo(b)fluoranthene_TS862**											
213												
214	**General Statistics**											
215					Total Number of Observations	61				Number of Distinct Observations		42
216					Number of Detects	23				Number of Non-Detects		38
217					Number of Distinct Detects	21				Number of Distinct Non-Detects		21
218					Minimum Detect	0.011				Minimum Non-Detect		0.0072
219					Maximum Detect	220				Maximum Non-Detect		0.28
220					Variance Detects	2088				Percent Non-Detects		62.3%
221					Mean Detects	10.74				SD Detects		45.7
222					Median Detects	0.18				CV Detects		4.255
223					Skewness Detects	4.769				Kurtosis Detects		22.81
224					Mean of Logged Detects	-1.438				SD of Logged Detects		2.573
225												
226	**Normal GOF Test on Detects Only**											
227					Shapiro Wilk Test Statistic	0.246	**Shapiro Wilk GOF Test**					
228					5% Shapiro Wilk Critical Value	0.914	Detected Data Not Normal at 5% Significance Level					
229					Lilliefors Test Statistic	0.451	**Lilliefors GOF Test**					
230					5% Lilliefors Critical Value	0.185	Detected Data Not Normal at 5% Significance Level					
231	**Detected Data Not Normal at 5% Significance Level**											
232												
233	**Kaplan-Meier (KM) Statistics using Normal Critical Values and other Nonparametric UCLs**											
234					Mean	4.055				Standard Error of Mean		3.657
235					SD	27.93				95% KM (BCA) UCL		11.33
236					95% KM (t) UCL	10.16				95% KM (Percentile Bootstrap) UCL		11.22
237					95% KM (z) UCL	10.07				95% KM Bootstrap t UCL		130.6
238					90% KM Chebyshev UCL	15.03				95% KM Chebyshev UCL		19.99
239					97.5% KM Chebyshev UCL	26.89				99% KM Chebyshev UCL		40.44
240												
241	**Gamma GOF Tests on Detected Observations Only**											
242					A-D Test Statistic	3.036	**Anderson-Darling GOF Test**					
243					5% A-D Critical Value	0.903	Detected Data Not Gamma Distributed at 5% Significance Level					
244					K-S Test Statistic	0.313	**Kolmogrov-Smirnoff GOF**					
245					5% K-S Critical Value	0.201	Detected Data Not Gamma Distributed at 5% Significance Level					
246	**Detected Data Not Gamma Distributed at 5% Significance Level**											
247												
248	**Gamma Statistics on Detected Data Only**											

	A	B	C	D	E	F	G	H	I	J	K	L
249					k hat (MLE)	0.194				k star (bias corrected MLE)		0.198
250					Theta hat (MLE)	55.36				Theta star (bias corrected MLE)		54.33
251					nu hat (MLE)	8.923				nu star (bias corrected)		9.093
252					MLE Mean (bias corrected)	10.74				MLE Sd (bias corrected)		24.16
253												
254					**Gamma Kaplan-Meier (KM) Statistics**							
255					k hat (KM)	0.0211				nu hat (KM)		2.571
256					Approximate Chi Square Value (2.57, α)	0.258				Adjusted Chi Square Value (2.57, β)		0.244
257					5% Gamma Approximate KM-UCL (use when n>=50)	40.47				95% Gamma Adjusted KM-UCL (use when n<50)		42.66
258					Gamma (KM) may not be used when k hat (KM) is < 0.1							
259												
260					**Gamma ROS Statistics using Imputed Non-Detects**							
261					GROS may not be used when data set has > 50% NDs with many tied observations at multiple DLs							
262					GROS may not be used when kstar of detected data is small such as < 0.1							
263					For such situations, GROS method tends to yield inflated values of UCLs and BTVs							
264					For gamma distributed detected data, BTVs and UCLs may be computed using gamma distribution on KM estimates							
265					Minimum	0.01				Mean		4.055
266					Maximum	220				Median		0.01
267					SD	28.16				CV		6.945
268					k hat (MLE)	0.158				k star (bias corrected MLE)		0.162
269					Theta hat (MLE)	25.59				Theta star (bias corrected MLE)		25.09
270					nu hat (MLE)	19.33				nu star (bias corrected)		19.72
271					MLE Mean (bias corrected)	4.055				MLE Sd (bias corrected)		10.09
272										Adjusted Level of Significance (β)		0.0461
273					Approximate Chi Square Value (19.72, α)	10.64				Adjusted Chi Square Value (19.72, β)		10.48
274					95% Gamma Approximate UCL (use when n>=50)	7.513				95% Gamma Adjusted UCL (use when n<50)		7.629
275												
276					**Lognormal GOF Test on Detected Observations Only**							
277					Shapiro Wilk Test Statistic	0.921				**Shapiro Wilk GOF Test**		
278					5% Shapiro Wilk Critical Value	0.914				Detected Data appear Lognormal at 5% Significance Level		
279					Lilliefors Test Statistic	0.135				**Lilliefors GOF Test**		
280					5% Lilliefors Critical Value	0.185				Detected Data appear Lognormal at 5% Significance Level		
281					**Detected Data appear Lognormal at 5% Significance Level**							
282												
283					**Lognormal ROS Statistics Using Imputed Non-Detects**							
284					Mean in Original Scale	4.05				Mean in Log Scale		-5.439
285					SD in Original Scale	28.16				SD in Log Scale		3.788
286					95% t UCL (assumes normality of ROS data)	10.07				95% Percentile Bootstrap UCL		11.24
287					95% BCA Bootstrap UCL	15.09				95% Bootstrap t UCL		131.1
288					95% H-UCL (Log ROS)	73.26						
289												
290					**UCLs using Lognormal Distribution and KM Estimates when Detected data are Lognormally Distributed**							
291					KM Mean (logged)	-3.516				95% H-UCL (KM -Log)		1.009
292					KM SD (logged)	2.257				95% Critical H Value (KM-Log)		3.351
293					KM Standard Error of Mean (logged)	0.3						
294												
295					**DL/2 Statistics**							
296					**DL/2 Normal**					**DL/2 Log-Transformed**		
297					Mean in Original Scale	4.06				Mean in Log Scale		-3.342
298					SD in Original Scale	28.16				SD in Log Scale		2.272
299					95% t UCL (Assumes normality)	10.08				95% H-Stat UCL		1.252
300					**DL/2 is not a recommended method, provided for comparisons and historical reasons**							
301												
302					**Nonparametric Distribution Free UCL Statistics**							
303					**Detected Data appear Lognormal Distributed at 5% Significance Level**							
304												
305					**Suggested UCL to Use**							
306					97.5% KM (Chebyshev) UCL	26.89						
307												
308	Note: Suggestions regarding the selection of a 95% UCL are provided to help the user to select the most appropriate 95% UCL.											
309	Recommendations are based upon data size, data distribution, and skewness.											
310	These recommendations are based upon the results of the simulation studies summarized in Singh, Maichle, and Lee (2006).											

	A	B	C	D	E	F	G	H	I	J	K	L
311	owever, simulations results will not cover all Real World data sets; for additional insight the user may want to consult a statisticia											
312												
313	Benzo(k)fluoranthene_TS862											
314												
315	General Statistics											
316	Total Number of Observations					61	Number of Distinct Observations					39
317	Number of Detects					19	Number of Non-Detects					42
318	Number of Distinct Detects					17	Number of Distinct Non-Detects					23
319	Minimum Detect					0.0095	Minimum Non-Detect					0.0072
320	Maximum Detect					130	Maximum Non-Detect					0.28
321	Variance Detects					878.5	Percent Non-Detects					68.85%
322	Mean Detects					7.947	SD Detects					29.64
323	Median Detects					0.2	CV Detects					3.73
324	Skewness Detects					4.319	Kurtosis Detects					18.75
325	Mean of Logged Detects					-1.07	SD of Logged Detects					2.392
326												
327	Normal GOF Test on Detects Only											
328	Shapiro Wilk Test Statistic					0.287	Shapiro Wilk GOF Test					
329	5% Shapiro Wilk Critical Value					0.901	Detected Data Not Normal at 5% Significance Level					
330	Lilliefors Test Statistic					0.436	Lilliefors GOF Test					
331	5% Lilliefors Critical Value					0.203	Detected Data Not Normal at 5% Significance Level					
332	Detected Data Not Normal at 5% Significance Level											
333												
334	Kaplan-Meier (KM) Statistics using Normal Critical Values and other Nonparametric UCLs											
335	Mean					2.481	Standard Error of Mean					2.172
336	SD					16.51	95% KM (BCA) UCL					6.739
337	95% KM (t) UCL					6.11	95% KM (Percentile Bootstrap) UCL					6.706
338	95% KM (z) UCL					6.054	95% KM Bootstrap t UCL					56.58
339	90% KM Chebyshev UCL					8.998	95% KM Chebyshev UCL					11.95
340	97.5% KM Chebyshev UCL					16.05	99% KM Chebyshev UCL					24.1
341												
342	Gamma GOF Tests on Detected Observations Only											
343	A-D Test Statistic					2.228	Anderson-Darling GOF Test					
344	5% A-D Critical Value					0.877	Detected Data Not Gamma Distributed at 5% Significance Level					
345	K-S Test Statistic					0.338	Kolmogrov-Smirnoff GOF					
346	5% K-S Critical Value					0.219	Detected Data Not Gamma Distributed at 5% Significance Level					
347	Detected Data Not Gamma Distributed at 5% Significance Level											
348												
349	Gamma Statistics on Detected Data Only											
350	k hat (MLE)					0.229	k star (bias corrected MLE)					0.228
351	Theta hat (MLE)					34.68	Theta star (bias corrected MLE)					34.84
352	nu hat (MLE)					8.708	nu star (bias corrected)					8.666
353	MLE Mean (bias corrected)					7.947	MLE Sd (bias corrected)					16.64
354												
355	Gamma Kaplan-Meier (KM) Statistics											
356	k hat (KM)					0.0226	nu hat (KM)					2.753
357	Approximate Chi Square Value (2.75, α)					0.303	Adjusted Chi Square Value (2.75, β)					0.288
358	5% Gamma Approximate KM-UCL (use when n>=50)					22.53	95% Gamma Adjusted KM-UCL (use when n<50)					23.75
359	Gamma (KM) may not be used when k hat (KM) is < 0.1											
360												
361	Gamma ROS Statistics using Imputed Non-Detects											
362	GROS may not be used when data set has > 50% NDs with many tied observations at multiple DLs											
363	GROS may not be used when kstar of detected data is small such as < 0.1											
364	For such situations, GROS method tends to yield inflated values of UCLs and BTVs											
365	For gamma distributed detected data, BTVs and UCLs may be computed using gamma distribution on KM estimates											
366	Minimum					0.0095	Mean					2.482
367	Maximum					130	Median					0.01
368	SD					16.65	CV					6.709
369	k hat (MLE)					0.171	k star (bias corrected MLE)					0.173
370	Theta hat (MLE)					14.53	Theta star (bias corrected MLE)					14.32
371	nu hat (MLE)					20.84	nu star (bias corrected)					21.15
372	MLE Mean (bias corrected)					2.482	MLE Sd (bias corrected)					5.961

	A	B	C	D	E	F	G	H	I	J	K	L
373											Adjusted Level of Significance (β)	0.0461
374					Approximate Chi Square Value (21.15, α)	11.7					Adjusted Chi Square Value (21.15, β)	11.53
375					95% Gamma Approximate UCL (use when n>=50)	4.486					95% Gamma Adjusted UCL (use when n<50)	4.552
376												
377					Lognormal GOF Test on Detected Observations Only							
378					Shapiro Wilk Test Statistic	0.951			Shapiro Wilk GOF Test			
379					5% Shapiro Wilk Critical Value	0.901			Detected Data appear Lognormal at 5% Significance Level			
380					Lilliefors Test Statistic	0.142			Lilliefors GOF Test			
381					5% Lilliefors Critical Value	0.203			Detected Data appear Lognormal at 5% Significance Level			
382					Detected Data appear Lognormal at 5% Significance Level							
383												
384					Lognormal ROS Statistics Using Imputed Non-Detects							
385					Mean in Original Scale	2.476			Mean in Log Scale			-6.102
386					SD in Original Scale	16.65			SD in Log Scale			3.966
387					95% t UCL (assumes normality of ROS data)	6.038			95% Percentile Bootstrap UCL			6.727
388					95% BCA Bootstrap UCL	8.965			95% Bootstrap t UCL			55.84
389					95% H-UCL (Log ROS)	96.91						
390												
391					UCLs using Lognormal Distribution and KM Estimates when Detected data are Lognormally Distributed							
392					KM Mean (logged)	-3.685			95% H-UCL (KM -Log)			0.721
393					KM SD (logged)	2.199			95% Critical H Value (KM-Log)			3.311
394					KM Standard Error of Mean (logged)	0.292						
395												
396					DL/2 Statistics							
397					DL/2 Normal				DL/2 Log-Transformed			
398					Mean in Original Scale	2.486			Mean in Log Scale			-3.491
399					SD in Original Scale	16.65			SD in Log Scale			2.23
400					95% t UCL (Assumes normality)	6.048			95% H-Stat UCL			0.956
401					DL/2 is not a recommended method, provided for comparisons and historical reasons							
402												
403					Nonparametric Distribution Free UCL Statistics							
404					Detected Data appear Lognormal Distributed at 5% Significance Level							
405												
406					Suggested UCL to Use							
407					97.5% KM (Chebyshev) UCL	16.05						
408												
409	Note: Suggestions regarding the selection of a 95% UCL are provided to help the user to select the most appropriate 95% UCL.											
410	Recommendations are based upon data size, data distribution, and skewness.											
411	These recommendations are based upon the results of the simulation studies summarized in Singh, Maichle, and Lee (2006).											
412	owever, simulations results will not cover all Real World data sets; for additional insight the user may want to consult a statisticia											
413												
414	Chrysene_TS862											
415												
416					General Statistics							
417					Total Number of Observations	61			Number of Distinct Observations			41
418					Number of Detects	27			Number of Non-Detects			34
419					Number of Distinct Detects	25			Number of Distinct Non-Detects			17
420					Minimum Detect	0.0032			Minimum Non-Detect			0.0081
421					Maximum Detect	190			Maximum Non-Detect			0.28
422					Variance Detects	1329			Percent Non-Detects			55.74%
423					Mean Detects	8.225			SD Detects			36.46
424					Median Detects	0.087			CV Detects			4.433
425					Skewness Detects	5.139			Kurtosis Detects			26.57
426					Mean of Logged Detects	-2.087			SD of Logged Detects			2.903
427												
428					Normal GOF Test on Detects Only							
429					Shapiro Wilk Test Statistic	0.238			Shapiro Wilk GOF Test			
430					5% Shapiro Wilk Critical Value	0.923			Detected Data Not Normal at 5% Significance Level			
431					Lilliefors Test Statistic	0.46			Lilliefors GOF Test			
432					5% Lilliefors Critical Value	0.171			Detected Data Not Normal at 5% Significance Level			
433					Detected Data Not Normal at 5% Significance Level							
434												

	A	B	C	D	E	F	G	H	I	J	K	L
435	**Kaplan-Meier (KM) Statistics using Normal Critical Values and other Nonparametric UCLs**											
436					Mean	3.645				Standard Error of Mean		3.151
437					SD	24.15				95% KM (BCA) UCL		9.964
438					95% KM (t) UCL	8.909				95% KM (Percentile Bootstrap) UCL		9.784
439					95% KM (z) UCL	8.827				95% KM Bootstrap t UCL		75.01
440					90% KM Chebyshev UCL	13.1				95% KM Chebyshev UCL		17.38
441					97.5% KM Chebyshev UCL	23.32				99% KM Chebyshev UCL		35
442												
443	**Gamma GOF Tests on Detected Observations Only**											
444					A-D Test Statistic	3.07				**Anderson-Darling GOF Test**		
445					5% A-D Critical Value	0.922				Detected Data Not Gamma Distributed at 5% Significance Level		
446					K-S Test Statistic	0.292				**Kolmogrov-Smirnoff GOF**		
447					5% K-S Critical Value	0.188				Detected Data Not Gamma Distributed at 5% Significance Level		
448	**Detected Data Not Gamma Distributed at 5% Significance Level**											
449												
450	**Gamma Statistics on Detected Data Only**											
451					k hat (MLE)	0.179				k star (bias corrected MLE)		0.183
452					Theta hat (MLE)	46.07				Theta star (bias corrected MLE)		44.85
453					nu hat (MLE)	9.642				nu star (bias corrected)		9.904
454					MLE Mean (bias corrected)	8.225				MLE Sd (bias corrected)		19.21
455												
456	**Gamma Kaplan-Meier (KM) Statistics**											
457					k hat (KM)	0.0228				nu hat (KM)		2.779
458					Approximate Chi Square Value (2.78, α)	0.31				Adjusted Chi Square Value (2.78, β)		0.294
459					5% Gamma Approximate KM-UCL (use when n>=50)	32.67				95% Gamma Adjusted KM-UCL (use when n<50)		34.44
460	Gamma (KM) may not be used when k hat (KM) is < 0.1											
461												
462	**Gamma ROS Statistics using Imputed Non-Detects**											
463	GROS may not be used when data set has > 50% NDs with many tied observations at multiple DLs											
464	GROS may not be used when kstar of detected data is small such as < 0.1											
465	For such situations, GROS method tends to yield inflated values of UCLs and BTVs											
466	For gamma distributed detected data, BTVs and UCLs may be computed using gamma distribution on KM estimates											
467					Minimum	0.0032				Mean		3.646
468					Maximum	190				Median		0.01
469					SD	24.35				CV		6.678
470					k hat (MLE)	0.159				k star (bias corrected MLE)		0.162
471					Theta hat (MLE)	22.9				Theta star (bias corrected MLE)		22.46
472					nu hat (MLE)	19.43				nu star (bias corrected)		19.81
473					MLE Mean (bias corrected)	3.646				MLE Sd (bias corrected)		9.049
474										Adjusted Level of Significance (β)		0.0461
475					Approximate Chi Square Value (19.81, α)	10.71				Adjusted Chi Square Value (19.81, β)		10.55
476					95% Gamma Approximate UCL (use when n>=50)	6.744				95% Gamma Adjusted UCL (use when n<50)		6.848
477												
478	**Lognormal GOF Test on Detected Observations Only**											
479					Shapiro Wilk Test Statistic	0.93				**Shapiro Wilk GOF Test**		
480					5% Shapiro Wilk Critical Value	0.923				Detected Data appear Lognormal at 5% Significance Level		
481					Lilliefors Test Statistic	0.13				**Lilliefors GOF Test**		
482					5% Lilliefors Critical Value	0.171				Detected Data appear Lognormal at 5% Significance Level		
483	**Detected Data appear Lognormal at 5% Significance Level**											
484												
485	**Lognormal ROS Statistics Using Imputed Non-Detects**											
486					Mean in Original Scale	3.646				Mean in Log Scale		-3.965
487					SD in Original Scale	24.35				SD in Log Scale		2.723
488					95% t UCL (assumes normality of ROS data)	8.854				95% Percentile Bootstrap UCL		9.796
489					95% BCA Bootstrap UCL	13.38				95% Bootstrap t UCL		74.31
490					95% H-UCL (Log ROS)	2.849						
491												
492	**UCLs using Lognormal Distribution and KM Estimates when Detected data are Lognormally Distributed**											
493					KM Mean (logged)	-3.802				95% H-UCL (KM -Log)		1.405
494					KM SD (logged)	2.467				95% Critical H Value (KM-Log)		3.449
495					KM Standard Error of Mean (logged)	0.332						
496												

	A	B	C	D	E	F	G	H	I	J	K	L
497						DL/2 Statistics						
498				DL/2 Normal					DL/2 Log-Transformed			
499					Mean in Original Scale	3.651				Mean in Log Scale		-3.361
500					SD in Original Scale	24.35				SD in Log Scale		2.32
501					95% t UCL (Assumes normality)	8.859				95% H-Stat UCL		1.414
502					DL/2 is not a recommended method, provided for comparisons and historical reasons							
503												
504					Nonparametric Distribution Free UCL Statistics							
505					Detected Data appear Lognormal Distributed at 5% Significance Level							
506												
507					Suggested UCL to Use							
508					97.5% KM (Chebyshev) UCL	23.32						
509												
510	Note: Suggestions regarding the selection of a 95% UCL are provided to help the user to select the most appropriate 95% UCL.											
511					Recommendations are based upon data size, data distribution, and skewness.							
512	These recommendations are based upon the results of the simulation studies summarized in Singh, Maichle, and Lee (2006).											
513	owever, simulations results will not cover all Real World data sets; for additional insight the user may want to consult a statisticia											
514												
515	Dibenz(a,h)anthracene_TS862											
516												
517					General Statistics							
518					Total Number of Observations	61				Number of Distinct Observations		37
519					Number of Detects	19				Number of Non-Detects		42
520					Number of Distinct Detects	18				Number of Distinct Non-Detects		24
521					Minimum Detect	0.003				Minimum Non-Detect		0.0072
522					Maximum Detect	35				Maximum Non-Detect		0.28
523					Variance Detects	63.74				Percent Non-Detects		68.85%
524					Mean Detects	2.102				SD Detects		7.984
525					Median Detects	0.041				CV Detects		3.799
526					Skewness Detects	4.328				Kurtosis Detects		18.81
527					Mean of Logged Detects	-2.517				SD of Logged Detects		2.372
528												
529					Normal GOF Test on Detects Only							
530					Shapiro Wilk Test Statistic	0.282				Shapiro Wilk GOF Test		
531					5% Shapiro Wilk Critical Value	0.901				Detected Data Not Normal at 5% Significance Level		
532					Lilliefors Test Statistic	0.452				Lilliefors GOF Test		
533					5% Lilliefors Critical Value	0.203				Detected Data Not Normal at 5% Significance Level		
534					Detected Data Not Normal at 5% Significance Level							
535												
536					Kaplan-Meier (KM) Statistics using Normal Critical Values and other Nonparametric UCLs							
537					Mean	0.66				Standard Error of Mean		0.585
538					SD	4.444				95% KM (BCA) UCL		1.82
539					95% KM (t) UCL	1.636				95% KM (Percentile Bootstrap) UCL		1.8
540					95% KM (z) UCL	1.621				95% KM Bootstrap t UCL		15.94
541					90% KM Chebyshev UCL	2.413				95% KM Chebyshev UCL		3.208
542					97.5% KM Chebyshev UCL	4.31				99% KM Chebyshev UCL		6.476
543												
544					Gamma GOF Tests on Detected Observations Only							
545					A-D Test Statistic	2.41				Anderson-Darling GOF Test		
546					5% A-D Critical Value	0.88				Detected Data Not Gamma Distributed at 5% Significance Level		
547					K-S Test Statistic	0.343				Kolmogrov-Smirnoff GOF		
548					5% K-S Critical Value	0.219				Detected Data Not Gamma Distributed at 5% Significance Level		
549					Detected Data Not Gamma Distributed at 5% Significance Level							
550												
551					Gamma Statistics on Detected Data Only							
552					k hat (MLE)	0.222				k star (bias corrected MLE)		0.222
553					Theta hat (MLE)	9.463				Theta star (bias corrected MLE)		9.462
554					nu hat (MLE)	8.439				nu star (bias corrected)		8.44
555					MLE Mean (bias corrected)	2.102				MLE Sd (bias corrected)		4.459
556												
557					Gamma Kaplan-Meier (KM) Statistics							
558					k hat (KM)	0.022				nu hat (KM)		2.688

	A	B	C	D	E	F	G	H	I	J	K	L
559	Approximate Chi Square Value (2.69, α)					0.286	Adjusted Chi Square Value (2.69, β)					0.272
560	5% Gamma Approximate KM-UCL (use when n>=50)					6.193	95% Gamma Adjusted KM-UCL (use when n<50)					6.529
561	Gamma (KM) may not be used when k hat (KM) is < 0.1											
562												
563	**Gamma ROS Statistics using Imputed Non-Detects**											
564	GROS may not be used when data set has > 50% NDs with many tied observations at multiple DLs											
565	GROS may not be used when kstar of detected data is small such as < 0.1											
566	For such situations, GROS method tends to yield inflated values of UCLs and BTVs											
567	For gamma distributed detected data, BTVs and UCLs may be computed using gamma distribution on KM estimates											
568	Minimum					0.003	Mean					0.661
569	Maximum					35	Median					0.01
570	SD					4.481	CV					6.774
571	k hat (MLE)					0.207	k star (bias corrected MLE)					0.207
572	Theta hat (MLE)					3.2	Theta star (bias corrected MLE)					3.188
573	nu hat (MLE)					25.22	nu star (bias corrected)					25.31
574	MLE Mean (bias corrected)					0.661	MLE Sd (bias corrected)					1.452
575							Adjusted Level of Significance (β)					0.0461
576	Approximate Chi Square Value (25.31, α)					14.85	Adjusted Chi Square Value (25.31, β)					14.66
577	95% Gamma Approximate UCL (use when n>=50)					1.127	95% Gamma Adjusted UCL (use when n<50)					1.142
578												
579	**Lognormal GOF Test on Detected Observations Only**											
580	Shapiro Wilk Test Statistic					0.937	**Shapiro Wilk GOF Test**					
581	5% Shapiro Wilk Critical Value					0.901	Detected Data appear Lognormal at 5% Significance Level					
582	Lilliefors Test Statistic					0.142	**Lilliefors GOF Test**					
583	5% Lilliefors Critical Value					0.203	Detected Data appear Lognormal at 5% Significance Level					
584	**Detected Data appear Lognormal at 5% Significance Level**											
585												
586	**Lognormal ROS Statistics Using Imputed Non-Detects**											
587	Mean in Original Scale					0.659	Mean in Log Scale					-4.747
588	SD in Original Scale					4.481	SD in Log Scale					2.195
589	95% t UCL (assumes normality of ROS data)					1.617	95% Percentile Bootstrap UCL					1.795
590	95% BCA Bootstrap UCL					2.406	95% Bootstrap t UCL					16.07
591	95% H-UCL (Log ROS)					0.247						
592												
593	**UCLs using Lognormal Distribution and KM Estimates when Detected data are Lognormally Distributed**											
594	KM Mean (logged)					-4.332	95% H-UCL (KM -Log)					0.143
595	KM SD (logged)					1.838	95% Critical H Value (KM-Log)					2.934
596	KM Standard Error of Mean (logged)					0.279						
597												
598	**DL/2 Statistics**											
599	**DL/2 Normal**						**DL/2 Log-Transformed**					
600	Mean in Original Scale					0.666	Mean in Log Scale					-3.94
601	SD in Original Scale					4.48	SD in Log Scale					1.783
602	95% t UCL (Assumes normality)					1.624	95% H-Stat UCL					0.184
603	**DL/2 is not a recommended method, provided for comparisons and historical reasons**											
604												
605	**Nonparametric Distribution Free UCL Statistics**											
606	**Detected Data appear Lognormal Distributed at 5% Significance Level**											
607												
608	**Suggested UCL to Use**											
609	97.5% KM (Chebyshev) UCL					4.31						
610												
611	Note: Suggestions regarding the selection of a 95% UCL are provided to help the user to select the most appropriate 95% UCL.											
612	Recommendations are based upon data size, data distribution, and skewness.											
613	These recommendations are based upon the results of the simulation studies summarized in Singh, Maichle, and Lee (2006).											
614	owever, simulations results will not cover all Real World data sets; for additional insight the user may want to consult a statisticia											
615												
616	**Fluoranthene_TS862**											
617												
618	**General Statistics**											
619	Total Number of Observations					61	Number of Distinct Observations					46
620	Number of Detects					33	Number of Non-Detects					28

	A	B	C	D	E	F	G	H	I	J	K	L
621					Number of Distinct Detects	31				Number of Distinct Non-Detects		16
622					Minimum Detect	0.0023				Minimum Non-Detect		0.0081
623					Maximum Detect	330				Maximum Non-Detect		0.28
624					Variance Detects	3287				Percent Non-Detects		45.9%
625					Mean Detects	11.49				SD Detects		57.33
626					Median Detects	0.041				CV Detects		4.988
627					Skewness Detects	5.698				Kurtosis Detects		32.62
628					Mean of Logged Detects	-2.342				SD of Logged Detects		3.053
629												
630					**Normal GOF Test on Detects Only**							
631					Shapiro Wilk Test Statistic	0.21			**Shapiro Wilk GOF Test**			
632					5% Shapiro Wilk Critical Value	0.931			Detected Data Not Normal at 5% Significance Level			
633					Lilliefors Test Statistic	0.471			**Lilliefors GOF Test**			
634					5% Lilliefors Critical Value	0.154			Detected Data Not Normal at 5% Significance Level			
635					**Detected Data Not Normal at 5% Significance Level**							
636												
637					**Kaplan-Meier (KM) Statistics using Normal Critical Values and other Nonparametric UCLs**							
638					Mean	6.221			Standard Error of Mean			5.45
639					SD	41.91			95% KM (BCA) UCL			17.01
640					95% KM (t) UCL	15.33			95% KM (Percentile Bootstrap) UCL			16.95
641					95% KM (z) UCL	15.19			95% KM Bootstrap t UCL			136.7
642					90% KM Chebyshev UCL	22.57			95% KM Chebyshev UCL			29.98
643					97.5% KM Chebyshev UCL	40.26			99% KM Chebyshev UCL			60.45
644												
645					**Gamma GOF Tests on Detected Observations Only**							
646					A-D Test Statistic	4.21			**Anderson-Darling GOF Test**			
647					5% A-D Critical Value	0.945			Detected Data Not Gamma Distributed at 5% Significance Level			
648					K-S Test Statistic	0.283			**Kolmogrov-Smirnoff GOF**			
649					5% K-S Critical Value	0.172			Detected Data Not Gamma Distributed at 5% Significance Level			
650					**Detected Data Not Gamma Distributed at 5% Significance Level**							
651												
652					**Gamma Statistics on Detected Data Only**							
653					k hat (MLE)	0.159			k star (bias corrected MLE)			0.165
654					Theta hat (MLE)	72.17			Theta star (bias corrected MLE)			69.66
655					nu hat (MLE)	10.51			nu star (bias corrected)			10.89
656					MLE Mean (bias corrected)	11.49			MLE Sd (bias corrected)			28.3
657												
658					**Gamma Kaplan-Meier (KM) Statistics**							
659					k hat (KM)	0.022			nu hat (KM)			2.688
660					Approximate Chi Square Value (2.69, α)	0.286			Adjusted Chi Square Value (2.69, β)			0.272
661					5% Gamma Approximate KM-UCL (use when n>=50)	58.41			95% Gamma Adjusted KM-UCL (use when n<50)			61.58
662					Gamma (KM) may not be used when k hat (KM) is < 0.1							
663												
664					**Gamma ROS Statistics using Imputed Non-Detects**							
665					GROS may not be used when data set has > 50% NDs with many tied observations at multiple DLs							
666					GROS may not be used when kstar of detected data is small such as < 0.1							
667					For such situations, GROS method tends to yield inflated values of UCLs and BTVs							
668					For gamma distributed detected data, BTVs and UCLs may be computed using gamma distribution on KM estimates							
669					Minimum	0.0023			Mean			6.222
670					Maximum	330			Median			0.01
671					SD	42.26			CV			6.792
672					k hat (MLE)	0.148			k star (bias corrected MLE)			0.152
673					Theta hat (MLE)	42.08			Theta star (bias corrected MLE)			41.07
674					nu hat (MLE)	18.04			nu star (bias corrected)			18.48
675					MLE Mean (bias corrected)	6.222			MLE Sd (bias corrected)			15.98
676									Adjusted Level of Significance (β)			0.0461
677					Approximate Chi Square Value (18.48, α)	9.742			Adjusted Chi Square Value (18.48, β)			9.588
678					95% Gamma Approximate UCL (use when n>=50)	11.81			95% Gamma Adjusted UCL (use when n<50)			12
679												
680					**Lognormal GOF Test on Detected Observations Only**							
681					Shapiro Wilk Test Statistic	0.915			**Shapiro Wilk GOF Test**			
682					5% Shapiro Wilk Critical Value	0.931			Detected Data Not Lognormal at 5% Significance Level			

	A	B	C	D	E	F	G	H	I	J	K	L
683					Lilliefors Test Statistic	0.151	**Lilliefors GOF Test**					
684					5% Lilliefors Critical Value	0.154	Detected Data appear Lognormal at 5% Significance Level					
685	**Detected Data appear Approximate Lognormal at 5% Significance Level**											
686												
687	**Lognormal ROS Statistics Using Imputed Non-Detects**											
688					Mean in Original Scale	6.223			Mean in Log Scale			-3.642
689					SD in Original Scale	42.26			SD in Log Scale			2.769
690					95% t UCL (assumes normality of ROS data)	15.26			95% Percentile Bootstrap UCL			17.01
691					95% BCA Bootstrap UCL	27.66			95% Bootstrap t UCL			140.6
692					95% H-UCL (Log ROS)	4.672						
693												
694	**UCLs using Lognormal Distribution and KM Estimates when Detected data are Lognormally Distributed**											
695					KM Mean (logged)	-3.637			95% H-UCL (KM -Log)			3.26
696					KM SD (logged)	2.669			95% Critical H Value (KM-Log)			3.646
697					KM Standard Error of Mean (logged)	0.36						
698												
699	**DL/2 Statistics**											
700		**DL/2 Normal**					**DL/2 Log-Transformed**					
701					Mean in Original Scale	6.227			Mean in Log Scale			-3.217
702					SD in Original Scale	42.26			SD in Log Scale			2.493
703					95% t UCL (Assumes normality)	15.27			95% H-Stat UCL			2.725
704	**DL/2 is not a recommended method, provided for comparisons and historical reasons**											
705												
706	**Nonparametric Distribution Free UCL Statistics**											
707	**Detected Data appear Approximate Lognormal Distributed at 5% Significance Level**											
708												
709	**Suggested UCL to Use**											
710					97.5% KM (Chebyshev) UCL	40.26						
711												
712	Note: Suggestions regarding the selection of a 95% UCL are provided to help the user to select the most appropriate 95% UCL.											
713	Recommendations are based upon data size, data distribution, and skewness.											
714	These recommendations are based upon the results of the simulation studies summarized in Singh, Maichle, and Lee (2006).											
715	owever, simulations results will not cover all Real World data sets; for additional insight the user may want to consult a statisticia											
716												
717	**Indeno(1,2,3-cd)pyrene_TS862**											
718												
719	**General Statistics**											
720					Total Number of Observations	61			Number of Distinct Observations			41
721					Number of Detects	26			Number of Non-Detects			35
722					Number of Distinct Detects	23			Number of Distinct Non-Detects			18
723					Minimum Detect	0.0023			Minimum Non-Detect			0.0081
724					Maximum Detect	110			Maximum Non-Detect			0.28
725					Variance Detects	462.2			Percent Non-Detects			57.38%
726					Mean Detects	4.861			SD Detects			21.5
727					Median Detects	0.067			CV Detects			4.423
728					Skewness Detects	5.059			Kurtosis Detects			25.71
729					Mean of Logged Detects	-2.455			SD of Logged Detects			2.798
730												
731	**Normal GOF Test on Detects Only**											
732					Shapiro Wilk Test Statistic	0.237	**Shapiro Wilk GOF Test**					
733					5% Shapiro Wilk Critical Value	0.92	Detected Data Not Normal at 5% Significance Level					
734					Lilliefors Test Statistic	0.457	**Lilliefors GOF Test**					
735					5% Lilliefors Critical Value	0.174	Detected Data Not Normal at 5% Significance Level					
736	**Detected Data Not Normal at 5% Significance Level**											
737												
738	**Kaplan-Meier (KM) Statistics using Normal Critical Values and other Nonparametric UCLs**											
739					Mean	2.075			Standard Error of Mean			1.824
740					SD	13.97			95% KM (BCA) UCL			5.731
741					95% KM (t) UCL	5.123			95% KM (Percentile Bootstrap) UCL			5.64
742					95% KM (z) UCL	5.076			95% KM Bootstrap t UCL			47.4
743					90% KM Chebyshev UCL	7.548			95% KM Chebyshev UCL			10.03
744					97.5% KM Chebyshev UCL	13.47			99% KM Chebyshev UCL			20.23

	A	B	C	D	E	F	G	H	I	J	K	L
745												
746	**Gamma GOF Tests on Detected Observations Only**											
747					A-D Test Statistic	3.001	**Anderson-Darling GOF Test**					
748					5% A-D Critical Value	0.916	Detected Data Not Gamma Distributed at 5% Significance Level					
749					K-S Test Statistic	0.302	**Kolmogrov-Smirnoff GOF**					
750					5% K-S Critical Value	0.191	Detected Data Not Gamma Distributed at 5% Significance Level					
751	**Detected Data Not Gamma Distributed at 5% Significance Level**											
752												
753	**Gamma Statistics on Detected Data Only**											
754					k hat (MLE)	0.185			k star (bias corrected MLE)			0.189
755					Theta hat (MLE)	26.33			Theta star (bias corrected MLE)			25.73
756					nu hat (MLE)	9.6			nu star (bias corrected)			9.826
757					MLE Mean (bias corrected)	4.861			MLE Sd (bias corrected)			11.18
758												
759	**Gamma Kaplan-Meier (KM) Statistics**											
760					k hat (KM)	0.0221			nu hat (KM)			2.692
761					Approximate Chi Square Value (2.69, α)	0.287			Adjusted Chi Square Value (2.69, β)			0.273
762					5% Gamma Approximate KM-UCL (use when n>=50)	19.44			95% Gamma Adjusted KM-UCL (use when n<50)			20.5
763	Gamma (KM) may not be used when k hat (KM) is < 0.1											
764												
765	**Gamma ROS Statistics using Imputed Non-Detects**											
766	GROS may not be used when data set has > 50% NDs with many tied observations at multiple DLs											
767	GROS may not be used when kstar of detected data is small such as < 0.1											
768	For such situations, GROS method tends to yield inflated values of UCLs and BTVs											
769	For gamma distributed detected data, BTVs and UCLs may be computed using gamma distribution on KM estimates											
770					Minimum	0.0023			Mean			2.078
771					Maximum	110			Median			0.01
772					SD	14.09			CV			6.78
773					k hat (MLE)	0.171			k star (bias corrected MLE)			0.173
774					Theta hat (MLE)	12.18			Theta star (bias corrected MLE)			12
775					nu hat (MLE)	20.81			nu star (bias corrected)			21.12
776					MLE Mean (bias corrected)	2.078			MLE Sd (bias corrected)			4.993
777									Adjusted Level of Significance (β)			0.0461
778					Approximate Chi Square Value (21.12, α)	11.68			Adjusted Chi Square Value (21.12, β)			11.51
779					95% Gamma Approximate UCL (use when n>=50)	3.756			95% Gamma Adjusted UCL (use when n<50)			3.812
780												
781	**Lognormal GOF Test on Detected Observations Only**											
782					Shapiro Wilk Test Statistic	0.938	**Shapiro Wilk GOF Test**					
783					5% Shapiro Wilk Critical Value	0.92	Detected Data appear Lognormal at 5% Significance Level					
784					Lilliefors Test Statistic	0.0978	**Lilliefors GOF Test**					
785					5% Lilliefors Critical Value	0.174	Detected Data appear Lognormal at 5% Significance Level					
786	**Detected Data appear Lognormal at 5% Significance Level**											
787												
788	**Lognormal ROS Statistics Using Imputed Non-Detects**											
789					Mean in Original Scale	2.076			Mean in Log Scale			-4.209
790					SD in Original Scale	14.09			SD in Log Scale			2.531
791					95% t UCL (assumes normality of ROS data)	5.089			95% Percentile Bootstrap UCL			5.595
792					95% BCA Bootstrap UCL	7.633			95% Bootstrap t UCL			46.6
793					95% H-UCL (Log ROS)	1.144						
794												
795	**UCLs using Lognormal Distribution and KM Estimates when Detected data are Lognormally Distributed**											
796					KM Mean (logged)	-4.153			95% H-UCL (KM -Log)			0.721
797					KM SD (logged)	2.361			95% Critical H Value (KM-Log)			3.408
798					KM Standard Error of Mean (logged)	0.324						
799												
800	**DL/2 Statistics**											
801	**DL/2 Normal**						**DL/2 Log-Transformed**					
802					Mean in Original Scale	2.082			Mean in Log Scale			-3.572
803					SD in Original Scale	14.09			SD in Log Scale			2.155
804					95% t UCL (Assumes normality)	5.095			95% H-Stat UCL			0.713
805	**DL/2 is not a recommended method, provided for comparisons and historical reasons**											
806												

	A	B	C	D	E	F	G	H	I	J	K	L
807	**Nonparametric Distribution Free UCL Statistics**											
808	**Detected Data appear Lognormal Distributed at 5% Significance Level**											
809												
810	**Suggested UCL to Use**											
811					97.5% KM (Chebyshev) UCL	13.47						
812												
813	Note: Suggestions regarding the selection of a 95% UCL are provided to help the user to select the most appropriate 95% UCL.											
814	Recommendations are based upon data size, data distribution, and skewness.											
815	These recommendations are based upon the results of the simulation studies summarized in Singh, Maichle, and Lee (2006).											
816	owever, simulations results will not cover all Real World data sets; for additional insight the user may want to consult a statisticia											
817												
818	Pyrene_TS862											
819												
820	**General Statistics**											
821					Total Number of Observations	61			Number of Distinct Observations			45
822					Number of Detects	33			Number of Non-Detects			28
823					Number of Distinct Detects	30			Number of Distinct Non-Detects			16
824					Minimum Detect	0.0021			Minimum Non-Detect			0.0081
825					Maximum Detect	290			Maximum Non-Detect			0.28
826					Variance Detects	2538			Percent Non-Detects			45.9%
827					Mean Detects	10.23			SD Detects			50.38
828					Median Detects	0.048			CV Detects			4.924
829					Skewness Detects	5.688			Kurtosis Detects			32.54
830					Mean of Logged Detects	-2.392			SD of Logged Detects			3.063
831												
832	**Normal GOF Test on Detects Only**											
833					Shapiro Wilk Test Statistic	0.213			**Shapiro Wilk GOF Test**			
834					5% Shapiro Wilk Critical Value	0.931			Detected Data Not Normal at 5% Significance Level			
835					Lilliefors Test Statistic	0.47			**Lilliefors GOF Test**			
836					5% Lilliefors Critical Value	0.154			Detected Data Not Normal at 5% Significance Level			
837	**Detected Data Not Normal at 5% Significance Level**											
838												
839	**Kaplan-Meier (KM) Statistics using Normal Critical Values and other Nonparametric UCLs**											
840					Mean	5.539			Standard Error of Mean			4.791
841					SD	36.85			95% KM (BCA) UCL			15.06
842					95% KM (t) UCL	13.54			95% KM (Percentile Bootstrap) UCL			15.01
843					95% KM (z) UCL	13.42			95% KM Bootstrap t UCL			110.5
844					90% KM Chebyshev UCL	19.91			95% KM Chebyshev UCL			26.42
845					97.5% KM Chebyshev UCL	35.46			99% KM Chebyshev UCL			53.21
846												
847	**Gamma GOF Tests on Detected Observations Only**											
848					A-D Test Statistic	4.048			**Anderson-Darling GOF Test**			
849					5% A-D Critical Value	0.943			Detected Data Not Gamma Distributed at 5% Significance Level			
850					K-S Test Statistic	0.274			**Kolmogrov-Smirnoff GOF**			
851					5% K-S Critical Value	0.172			Detected Data Not Gamma Distributed at 5% Significance Level			
852	**Detected Data Not Gamma Distributed at 5% Significance Level**											
853												
854	**Gamma Statistics on Detected Data Only**											
855					k hat (MLE)	0.161			k star (bias corrected MLE)			0.167
856					Theta hat (MLE)	63.47			Theta star (bias corrected MLE)			61.36
857					nu hat (MLE)	10.64			nu star (bias corrected)			11.01
858					MLE Mean (bias corrected)	10.23			MLE Sd (bias corrected)			25.06
859												
860	**Gamma Kaplan-Meier (KM) Statistics**											
861					k hat (KM)	0.0226			nu hat (KM)			2.757
862					Approximate Chi Square Value (2.76, α)	0.304			Adjusted Chi Square Value (2.76, β)			0.289
863					5% Gamma Approximate KM-UCL (use when n>=50)	50.2			95% Gamma Adjusted KM-UCL (use when n<50)			52.92
864	Gamma (KM) may not be used when k hat (KM) is < 0.1											
865												
866	**Gamma ROS Statistics using Imputed Non-Detects**											
867	GROS may not be used when data set has > 50% NDs with many tied observations at multiple DLs											
868	GROS may not be used when kstar of detected data is small such as < 0.1											

	A	B	C	D	E	F	G	H	I	J	K	L
869	For such situations, GROS method tends to yield inflated values of UCLs and BTVs											
870	For gamma distributed detected data, BTVs and UCLs may be computed using gamma distribution on KM estimates											
871					Minimum	0.0021				Mean		5.54
872					Maximum	290				Median		0.01
873					SD	37.15				CV		6.706
874					k hat (MLE)	0.15				k star (bias corrected MLE)		0.154
875					Theta hat (MLE)	36.91				Theta star (bias corrected MLE)		36.05
876					nu hat (MLE)	18.31				nu star (bias corrected)		18.75
877					MLE Mean (bias corrected)	5.54				MLE Sd (bias corrected)		14.13
878										Adjusted Level of Significance (β)		0.0461
879					Approximate Chi Square Value (18.75, α)	9.932				Adjusted Chi Square Value (18.75, β)		9.776
880					95% Gamma Approximate UCL (use when n>=50)	10.46				95% Gamma Adjusted UCL (use when n<50)		10.62
881												
882	**Lognormal GOF Test on Detected Observations Only**											
883					Shapiro Wilk Test Statistic	0.92				**Shapiro Wilk GOF Test**		
884					5% Shapiro Wilk Critical Value	0.931				Detected Data Not Lognormal at 5% Significance Level		
885					Lilliefors Test Statistic	0.153				**Lilliefors GOF Test**		
886					5% Lilliefors Critical Value	0.154				Detected Data appear Lognormal at 5% Significance Level		
887	**Detected Data appear Approximate Lognormal at 5% Significance Level**											
888												
889	**Lognormal ROS Statistics Using Imputed Non-Detects**											
890					Mean in Original Scale	5.54				Mean in Log Scale		-3.711
891					SD in Original Scale	37.15				SD in Log Scale		2.789
892					95% t UCL (assumes normality of ROS data)	13.49				95% Percentile Bootstrap UCL		15.16
893					95% BCA Bootstrap UCL	20.54				95% Bootstrap t UCL		112.7
894					95% H-UCL (Log ROS)	4.697						
895												
896	**UCLs using Lognormal Distribution and KM Estimates when Detected data are Lognormally Distributed**											
897					KM Mean (logged)	-3.708				95% H-UCL (KM -Log)		3.272
898					KM SD (logged)	2.69				95% Critical H Value (KM-Log)		3.673
899					KM Standard Error of Mean (logged)	0.363						
900												
901	**DL/2 Statistics**											
902			**DL/2 Normal**							**DL/2 Log-Transformed**		
903					Mean in Original Scale	5.545				Mean in Log Scale		-3.243
904					SD in Original Scale	37.15				SD in Log Scale		2.49
905					95% t UCL (Assumes normality)	13.49				95% H-Stat UCL		2.632
906	**DL/2 is not a recommended method, provided for comparisons and historical reasons**											
907												
908	**Nonparametric Distribution Free UCL Statistics**											
909	**Detected Data appear Approximate Lognormal Distributed at 5% Significance Level**											
910												
911	**Suggested UCL to Use**											
912					97.5% KM (Chebyshev) UCL	35.46						
913												
914	Note: Suggestions regarding the selection of a 95% UCL are provided to help the user to select the most appropriate 95% UCL.											
915	Recommendations are based upon data size, data distribution, and skewness.											
916	These recommendations are based upon the results of the simulation studies summarized in Singh, Maichle, and Lee (2006).											
917	owever, simulations results will not cover all Real World data sets; for additional insight the user may want to consult a statisticia											
918												

APPENDIX E

Munitions Response Site Prioritization Protocol

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Table A
MRS Background Information

DIRECTIONS: Record the background information below for the MRS to be evaluated. Much of this information is available from Service and DoD databases. If the MRS is located on a FUDS property, the suitable FUDS property information should be substituted. In the **MRS Summary**, briefly describe the UXO, DMM, or MC that are known or suspected to be present, the exposure setting (the MRS's physical environment), any other incidental nonmunitions-related contaminants (e.g., benzene, trichloroethylene) found at the MRS, and any potentially exposed human and ecological receptors. If possible, include a map of the MRS.

Munitions Response Site Name: SR859(a) – Former Skeet Range 2

Component: Air Force

Installation/Property Name: Holloman Air Force Base

Location (City, County, State): Alamogordo, Otero County, NM

Site Name/Project Name (Project No.): SR859(a) – Former Skeet Range 2

Date Information Entered/Updated: 6/24/2015

Point of Contact (Name/Phone): Peter Corigliano / 315-336-7721

Project Phase (check only one):

❑ PA	❑ SI	✓ RI	❑ FS	❑ RD
❑ RA-C	❑ RIP	❑ RA-O	❑ RC	❑ LTM

Media Evaluated (check all that apply):

❑ Groundwater	❑ Sediment (human receptor)
✓ Surface soil	❑ Surface Water (ecological receptor)
❑ Sediment (ecological receptor)	❑ Surface Water (human receptor)

MRS Summary:

MRS Description: Describe the munitions-related activities that occurred at the installation, the dates of operation, and the UXO, DMM, or MC known or suspected to be present. When possible, identify munitions, CWM, and MC by type: Former Skeet Range 2 (SR859a) MRS is an 8.1-acre split from the original Former Skeet Range MRA. The MRA acreage increased from 37.5 acres to42.4 acres based on PAH contamination. The site is located within the flightline triangle and southwest of the Former Machine Gun and Pistol Range. The MRS measures approximately 960 ft by 480 ft with a perimeter of 2,400 ft and exhibits relatively flat topography with soils consisting of the Yesum-Nasa complex. Beneath Holloman AFB, groundwater ranges from 5 to 50 ft bgs, with shallower groundwater found on the southern end of the base. There are no wetlands associated with this MRS. Evidence of typical skeet range usage was observed at this MRS, consisting of clay target debris, lead shot, and shotgun shells. Small arms debris not consistent with typical skeet range use was also identified, consisting of two intact 7.62mm rounds. All intact rounds were removed by Holloman EOD.

Description of Pathways for Human and Ecological Receptors: Lead and PAH compounds were detected above HHSLs. Soil pathways are considered complete for both human and ecological receptors.

Description of Receptors (Human and Ecological): Human receptors at Holloman AFB include authorized installation personnel (i.e., base maintenance workers and construction workers) and authorized contractors (i.e., workers). Trespassers are unlikely at this MRS due to strict flight line security. Ecological receptors include all current and future animal and plant life, which may be exposed to the soil at this MRS.

Table 1

EHE Module: Munitions Type Data Element Table

DIRECTIONS: Below are 11 classifications of munitions and their descriptions. Circle the scores that correspond with **all** the munitions types known or suspected to be present at the MRS.

Note: The terms *practice munitions, small arms ammunition, physical evidence,* and *historical evidence* are defined in Appendix C of the Primer.

Classification	Description	Score
Sensitive	◆ UXO that are considered most likely to function upon any interaction with exposed persons (e.g., submunitions, 40mm high-explosive [HE] grenades, white phosphorus [WP] munitions, high-explosive antitank [HEAT] munitions, and practice munitions with sensitive fuzes, but excluding all other practice munitions). ◆ Hand grenades containing energetic filler. ◆ Bulk primary explosives, or mixtures of these with environmental media, such that the mixture poses an explosive hazard.	30
High explosive (used or damaged)	◆ UXO containing a high-explosive filler (e.g., RDX, Composition B), that are not considered "sensitive." ◆ DMM containing a high-explosive filler that have: ▪ Been damaged by burning or detonation ▪ Deteriorated to the point of instability.	25
Pyrotechnic (used or damaged)	◆ UXO containing a pyrotechnic filler other than white phosphorus (e.g., flares, signals, simulators, smoke grenades). ◆ DMM containing a pyrotechnic filler other than white phosphorus (e.g., flares, signals, simulators, smoke grenades) that have: ▪ Been damaged by burning or detonation ▪ Deteriorated to the point of instability.	20
High explosive (unused)	◆ DMM containing a high-explosive filler that: ▪ Have not been damaged by burning or detonation ▪ Are not deteriorated to the point of instability.	15
Propellant	◆ UXO containing mostly single-, double-, or triple-based propellant, or composite propellants (e.g., a rocket motor). ◆ DMM containing mostly single-, double-, or triple-based propellant, or composite propellants (e.g., a rocket motor) that are: ▪ Damaged by burning or detonation ▪ Deteriorated to the point of instability.	15
Bulk secondary high explosives, pyrotechnics, or propellant	◆ DMM containing mostly single-, double-, or triple-based propellant, or composite propellants (e.g., a rocket motor). ◆ DMM that are bulk secondary high explosives, pyrotechnic compositions, or propellant (not contained in a munition), or mixtures of these with environmental media such that the mixture poses an explosive hazard.	10
Pyrotechnic (not used or damaged)	◆ DMM containing a pyrotechnic filler (i.e., red phosphorus), other than white phosphorus filler, that: ▪ Have not been damaged by burning or detonation ▪ Are not deteriorated to the point of instability.	10
Practice	◆ UXO that are practice munitions that are not associated with a sensitive fuze. ◆ DMM that are practice munitions that are not associated with a sensitive fuze and that have not: ▪ Been damaged by burning or detonation ▪ Deteriorated to the point of instability.	5
Riot control	◆ UXO or DMM containing a riot control agent filler (e.g., tear gas).	3
Small arms	◆ Used munitions or DMM that are categorized as small arms ammunition. (Physical evidence or historical evidence that no other types of munitions [e.g., grenades, subcaliber training rockets, demolition charges] were used or are present on the MRS is required for selection of this category.)	2
Evidence of no munitions	◆ Following investigation of the MRS, there is physical evidence that there are no UXO or DMM present, or there is historical evidence indicating that no UXO or DMM are present.	0
MUNITIONS TYPE	**DIRECTIONS:** Record **the single highest score** from above in the box to the right (maximum score = 30).	**2**

DIRECTIONS: Document any MRS-specific data used in selecting the ***Munitions Type*** classifications in the space provided.

Small arms debris and clay target debris consistent with skeet range activities was observed. Additionally, two intact 7.62mm rounds were observed. All intact rounds were removed by Holloman EOD. CSE Phase II Section 5.10.6 – Field Investigation Results.

Table 2

EHE Module: Source of Hazard Data Element Table

DIRECTIONS: Below are 11 classifications describing sources of explosive hazards. Circle the scores that correspond with **all** the sources of explosive hazards known or suspected to be present at the MRS.

Note: The terms *former range, practice munitions, small arms range, physical evidence,* and *historical evidence* are defined in Appendix C of the Primer.

Classification	Description	Score
Former range	◆ The MRS is a former military range where munitions (including practice munitions with sensitive fuzes) have been used. Such areas include impact or target areas and associated buffer and safety zones.	10
Former munitions treatment (i.e., OB/OD) unit	◆ The MRS is a location where UXO or DMM (e.g., munitions, bulk explosives, bulk pyrotechnic, or bulk propellants) were burned or detonated for the purpose of treatment prior to disposal.	8
Former practice munitions range	◆ The MRS is a former military range on which only practice munitions without sensitive fuzes were used.	6
Former maneuver area	◆ The MRS is a former maneuver area where no munitions other than flares, simulators, smokes, and blanks were used. There must be evidence that no other munitions were used at the location to place an MRS into this category.	5
Former burial pit or other disposal area	◆ The MRS is a location where DMM were buried or disposed of (e.g., disposed of into a water body) without prior thermal treatment.	5
Former industrial operating facilities	◆ The MRS is a location that is a former munitions maintenance, manufacturing, or demilitarization facility.	4
Former firing points	◆ The MRS is a firing point, where the firing point is delineated as an MRS separate from the rest of a former military range.	4
Former missile or air defense artillery emplacements	◆ The MRS is a former missile defense or air defense artillery (ADA) emplacement not associated with a military range.	2
Former storage or transfer points	◆ The MRS is a location where munitions were stored or handled for transfer between different modes of transportation (e.g., rail to truck, truck to weapon system).	2
Former small arms range	◆ The MRS is a former military range where only small arms ammunition was used. (There must be evidence that no other types of munitions [e.g., grenades] were used or are present to place an MRS into this category.)	1
Evidence of no munitions	◆ Following investigation of the MRS, there is physical evidence that no UXO or DMM are present, or there is historical evidence indicating that no UXO or DMM are present.	0
SOURCE OF HAZARD	**DIRECTIONS:** Record **the single highest score** from above in the box to the right (maximum score = 10).	**1**

DIRECTIONS: Document any MRS-specific data used in selecting the ***Source of Hazard*** classifications in the space provided.

Small arms debris and clay target debris consistent with skeet range activities was observed. Additionally, two intact 7.62mm rounds were observed. All intact rounds were removed by Holloman EOD. CSE Phase II Section 5.10.6 – Field Investigation Results.

Table 3

EHE Module: Location of Munitions Data Element Table

DIRECTIONS: Below are eight classifications of munitions locations and their descriptions. Circle the scores that correspond with **all** the locations where munitions are known or suspected to be present at the MRS.

Note: The terms *confirmed, surface, subsurface, small arms ammunition, physical evidence,* and *historical evidence* are defined in Appendix C of the Primer.

Classification	Description	Score
Confirmed surface	◆ Physical evidence indicates that there are UXO or DMM on the surface of the MRS. ◆ Historical evidence (i.e., a confirmed report such as an explosive ordnance disposal [EOD], police, or fire department report that an incident or accident that involved UXO or DMM occurred) indicates there are UXO or DMM on the surface of the MRS.	25
Confirmed subsurface, active	◆ Physical evidence indicates the presence of UXO or DMM in the subsurface of the MRS, and the geological conditions at the MRS are likely to cause UXO or DMM to be exposed, in the future, by naturally occurring phenomena (e.g., drought, flooding, erosion, frost heave, tidal action), or intrusive activities (e.g., plowing, construction, dredging) at the MRS are likely to expose UXO or DMM. ◆ Historical evidence indicates that UXO or DMM are located in the subsurface of the MRS and the geological conditions at the MRS are likely to cause UXO or DMM to be exposed, in the future, by naturally occurring phenomena (e.g., drought, flooding, erosion, frost heave, tidal action), or intrusive activities (e.g., plowing, construction, dredging) at the MRS are likely to expose UXO or DMM.	20
Confirmed subsurface, stable	◆ Physical evidence indicates the presence of UXO or DMM in the subsurface of the MRS and the geological conditions at the MRS are not likely to cause UXO or DMM to be exposed, in the future, by naturally occurring phenomena, or intrusive activities at the MRS are not likely to cause UXO or DMM to be exposed. ◆ Historical evidence indicates that UXO or DMM are located in the subsurface of the MRS and the geological conditions at the MRS are not likely to cause UXO or DMM to be exposed, in the future, by naturally occurring phenomena, or intrusive activities at the MRS are not likely to cause UXO or DMM to be exposed.	15
Suspected (physical evidence)	◆ There is physical evidence (e.g., munitions debris such as fragments, penetrators, projectiles, shell casings, links, fins), other than the documented presence of UXO or DMM, indicating that UXO or DMM may be present at the MRS.	10
Suspected (historical evidence)	◆ There is historical evidence indicating that UXO or DMM may be present at the MRS.	5
Subsurface, physical constraint	◆ There is physical or historical evidence indicating that UXO or DMM may be present in the subsurface, but there is a physical constraint (e.g., pavement, water depth over 120 feet) preventing direct access to the UXO or DMM.	2
Small arms (regardless of location)	◆ The presence of small arms ammunition is confirmed or suspected, regardless of other factors such as geological stability. (There must be evidence that no other types of munitions [e.g., grenades] were used or are present at the MRS to place an MRS into this category.)	1
Evidence of no munitions	◆ Following investigation of the MRS, there is physical evidence that there are no UXO or DMM present, or there is historical evidence indicating that no UXO or DMM are present.	0
LOCATION OF MUNITIONS	**DIRECTIONS:** Record **the single highest score** from above in the box to the right (maximum score = 25).	**1**

DIRECTIONS: Document any MRS-specific data used in selecting the ***Location of Munitions*** classifications in the space provided.

Small arms debris and clay target debris consistent with skeet range activities was observed. Additionally, two intact 7.62mm rounds were observed. All intact rounds were removed by Holloman EOD. CSE Phase II Section 5.10.6 – Field Investigation Results.

Table 4

EHE Module: Ease of Access Data Element Table

DIRECTIONS: Below are four classifications of barrier types that can surround an MRS and their descriptions. The barrier type is directly related to the ease of public access to the MRS. Circle the score that corresponds with the ease of access to the MRS.

Note: The term *barrier* is defined in Appendix C of the Primer.

Classification	Description	Score
No barrier	◆ There is no barrier preventing access to any part of the MRS (i.e., all parts of the MRS are accessible).	10
Barrier to MRS access is incomplete	◆ There is a barrier preventing access to parts of the MRS, but not the entire MRS.	8
Barrier to MRS access is complete but not monitored	◆ There is a barrier preventing access to all parts of the MRS, but there is no surveillance (e.g., by a guard) to ensure that the barrier is effectively preventing access to all parts of the MRS.	5
Barrier to MRS access is complete and monitored	◆ There is a barrier preventing access to all parts of the MRS, and there is active, continual surveillance (e.g., by a guard, video monitoring) to ensure that the barrier is effectively preventing access to all parts of the MRS.	0
EASE OF ACCESS	**DIRECTIONS:** Record **the single highest score** from above in the box to the right (maximum score = 10).	**0**

DIRECTIONS: Document any MRS-specific data used in selecting the ***Ease of Access*** classification in the space provided.

The Former Skeet Range 2 (SR859a) consists of open space within the northern triangle formed by the Holloman AFB runways. Access requires escort by approved Air Force personnel. The flight line is continually monitored. CSE Phase II Section 5.10.4

Table 5

EHE Module: Status of Property Data Element Table

DIRECTIONS: Below are three classifications of the status of a property within the Department of Defense (DoD) and their descriptions. Circle the score that corresponds with the status of property at the MRS.

Classification	Description	Score
Non-DoD control	◆ The MRS is at a location that is no longer owned by, leased to, or otherwise possessed or used by DoD. Examples are privately owned land or water bodies; land or water bodies owned or controlled by state, tribal, or local governments; and land or water bodies managed by other federal agencies. ◆ The MRS is at a location that is owned by DoD, but that DoD has leased to another entity and for which DoD does not control access 24 hours per day.	5
Scheduled for transfer from DoD control	◆ The MRS is on land or is a water body that is owned, leased, or otherwise possessed by DoD, and DoD plans to transfer that land or water body to the control of another entity (e.g., a state, tribal, or local government; a private party; another federal agency) within 3 years from the date the Protocol is applied.	3
DoD control	◆ The MRS is on land or is a water body that is owned, leased, or otherwise possessed by DoD. With respect to property that is leased or otherwise possessed, DoD must control access to the MRS 24 hours per day, every day of the calendar year.	0
STATUS OF PROPERTY	**DIRECTIONS:** Record **the single highest score** from above in the box to the right (maximum score = 5).	0

DIRECTIONS: Document any MRS-specific data used in selecting the ***Status of Property*** classification in the space provided.

The Former Skeet Range 2 (SR859a) consists of open space within the northern triangle formed by the Holloman AFB runways. Access requires escort by approved Air Force personnel. The flight line is continually monitored. CSE Phase II Section 5.10.4 _____

Table 6

EHE Module: Population Density Data Element Table

DIRECTIONS: Below are three classifications for population density and their descriptions. Determine the population density per square mile that most closely corresponds with the population of the MRS, including the area within a two-mile radius of the MRS's perimeter. Circle the most appropriate score.

Note: Use the U.S. Census Bureau tract data available to capture the **highest** population density within a two-mile radius of the perimeter of the MRS.

Classification	Description	Score
> 500 persons per square mile	◆ There are more than 500 persons per square mile in the U.S. Census Bureau tract in which the MRS is located.	5
100–500 persons per square mile	◆ There are 100 to 500 persons per square mile in the U.S. Census Bureau tract in which the MRS is located.	3
< 100 persons per square mile	◆ There are fewer than 100 persons per square mile in the U.S. Census Bureau tract in which the MRS is located.	1
POPULATION DENSITY	**DIRECTIONS:** Record **the single highest score** from above in the box to the right (maximum score = 5).	**1**

DIRECTIONS: Document any MRS-specific data used in selecting the ***Population Density*** classification in the space provided.

According to the 2010 US Census, the population density of Otero County is 10 persons per square mile. CSE Phase II Report Section 5.10.5

Table 7

EHE Module: Population Near Hazard Data Element Table

DIRECTIONS: Below are six classifications describing the number of inhabited structures near the MRS. The number of inhabited buildings relates to the potential population near the MRS. Determine the number of inhabited structures within two miles of the MRS boundary and circle the score that corresponds with the number of inhabited structures.

Note: The term *inhabited structures* is defined in Appendix C of the Primer.

Classification	Description	Score
26 or more inhabited structures	◆ There are 26 or more inhabited structures located up to 2 miles from the boundary of the MRS, within the boundary of the MRS, or both.	5
16 to 25 inhabited structures	◆ There are 16 to 25 inhabited structures located up to 2 miles from the boundary of the MRS, within the boundary of the MRS, or both.	4
11 to 15 inhabited structures	◆ There are 11 to 15 inhabited structures located up to 2 miles from the boundary of the MRS, within the boundary of the MRS, or both.	3
6 to 10 inhabited structures	◆ There are 6 to 10 inhabited structures located up to 2 miles from the boundary of the MRS, within the boundary of the MRS, or both.	2
1 to 5 inhabited structures	◆ There are 1 to 5 inhabited structures located up to 2 miles from the boundary of the MRS, within the boundary of the MRS, or both.	1
0 inhabited structures	◆ There are no inhabited structures located up to 2 miles from the boundary of the MRS, within the boundary of the MRS, or both.	0
POPULATION NEAR HAZARD	**DIRECTIONS:** Record **the single highest score** from above in the box to the right (maximum score = 5).	**5**

DIRECTIONS: Document any MRS-specific data used in selecting the ***Population Near Hazard*** classification in the space provided.

There are more than 26 buildings within a 2 mile radius of the MRS, including operational mission support, recreational facilities, base housing, and buildings that support the flight line. CSE Phase II Report Section 5.10.5

Table 8

EHE Module: Types of Activities/Structures Data Element Table

DIRECTIONS: Below are five classifications of activities and/or inhabited structures and their descriptions. Review the types of activities that occur and/or structures that are present within two miles of the MRS and circle the scores that correspond with **all** the activities/structure classifications at the MRS.

Note: The term *inhabited structure* is defined in Appendix C of the Primer.

Classification	Description	Score
Residential, educational, commercial, or subsistence	◆ Activities are conducted, or inhabited structures are located up to two miles from the MRS's boundary or within the MRS's boundary, that are associated with any of the following purposes: residential, educational, child care, critical assets (e.g., hospitals, fire and rescue, police stations, dams), hotels, commercial, shopping centers, playgrounds, community gathering areas, religious sites, or sites used for subsistence hunting, fishing, and gathering.	5
Parks and recreational areas	◆ Activities are conducted, or inhabited structures are located up to two miles from the MRS's boundary or within the MRS's boundary, that are associated with parks, nature preserves, or other recreational uses.	4
Agricultural, forestry	◆ Activities are conducted, or inhabited structures are located up to two miles from the MRS's boundary or within the MRS's boundary, that are associated with agriculture or forestry.	3
Industrial or warehousing	◆ Activities are conducted, or inhabited structures are located up to two miles from the MRS's boundary or within the MRS's boundary, that are associated with industrial activities or warehousing.	2
No known or recurring activities	◆ There are no known or recurring activities occurring up to two miles from the MRS's boundary or within the MRS's boundary.	1
TYPES OF ACTIVITIES/STRUCTURES	**DIRECTIONS:** Record **the single highest score** from above in the box to the right (maximum score = 5).	**5**

DIRECTIONS: Document any MRS-specific data used in selecting the ***Types of Activities/Structures*** classifications in the space provided.

Buildings within a 2 mile radius of the MRS include operational mission support, recreational facilities, base housing, and buildings that support the flight line. CSE Phase II Report Section 5.10.5

Table 9

EHE Module: Ecological and/or Cultural Resources Data Element Table

DIRECTIONS: Below are four classifications of ecological and/or cultural resources and their descriptions. Review the types of resources present and circle the score that corresponds with the ecological and/or cultural resources present on the MRS.

Note: The terms *ecological resources* and *cultural resources* are defined in Appendix C of the Primer.

Classification	Description	Score
Ecological and cultural resources present	◆ There are both ecological and cultural resources present on the MRS.	5
Ecological resources present	◆ There are ecological resources present on the MRS.	3
Cultural resources present	◆ There are cultural resources present on the MRS.	3
No ecological or cultural resources present	◆ There are no ecological resources or cultural resources present on the MRS.	0
ECOLOGICAL AND/OR CULTURAL RESOURCES	**DIRECTIONS:** Record **the single highest score** from above in the box to the right (maximum score = 5).	0

DIRECTIONS: Document any MRS-specific data used in selecting the ***Ecological and/or Cultural Resources*** classification in the space provided.

No cultural or ecological resources are present at the MRS. CSE Phase II Report Section 5.10.5

Table 10
Determining the EHE Module Rating

DIRECTIONS:

1. From Tables 1–9, record the data element scores in the **Score** boxes to the right.
2. Add the **Score** boxes for each of the three factors and record this number in the **Value** boxes to the right.
3. Add the three **Value** boxes and record this number in the **EHE Module Total** box below.
4. Circle the appropriate range for the **EHE Module Total** below.
5. Circle the **EHE Module Rating** that corresponds to the range selected and record this value in the **EHE Module Rating** box found at the bottom of the table.

Note:
An alternative module rating may be assigned when a module letter rating is inappropriate. An alternative module rating is used when more information is needed to score one or more data elements, contamination at an MRS was previously addressed, or there is no reason to suspect contamination was ever present at an MRS.

	Source	Score	Value
Explosive Hazard Factor Data Elements			
Munitions Type	Table 1	2	3
Source of Hazard	Table 2	1	
Accessibility Factor Data Elements			
Location of Munitions	Table 3	1	1
Ease of Access	Table 4	0	
Status of Property	Table 5	0	
Receptor Factor Data Elements			
Population Density	Table 6	1	11
Population Near Hazard	Table 7	5	
Types of Activities/Structures	Table 8	5	
Ecological and/or Cultural Resources	Table 9	0	
EHE MODULE TOTAL			15

EHE Module Total	EHE Module Rating
92 to 100	A
82 to 91	B
71 to 81	C
60 to 70	D
48 to 59	E
38 to 47	F
less than 38	G
Alternative Module Ratings	Evaluation Pending
	No Longer Required
	No Known or Suspected Explosive Hazard
EHE MODULE RATING	**G**

Table 11

CHE Module: CWM Configuration Data Element Table

DIRECTIONS: Below are seven classifications of CWM configuration and their descriptions. Circle the scores that correspond with **all** the CWM configurations known or suspected to be present at the MRS.

Note: The terms *CWM/UXO, CWM/DMM, physical evidence,* and *historical evidence* are defined in Appendix C of the Primer.

Classification	Description	Score
CWM, that are either UXO, or explosively configured damaged DMM	The CWM known or suspected of being present at the MRS are: ◆ CWM that are UXO (i.e., CWM/UXO) ◆ Explosively configured CWM that are DMM (i.e., CWM/DMM) that have been damaged.	30
CWM mixed with UXO	◆ The CWM known or suspected of being present at the MRS are undamaged CWM/DMM or CWM not configured as a munition that are commingled with conventional munitions that are UXO.	25
CWM, explosive configuration that are undamaged DMM	◆ The CWM known or suspected of being present at the MRS are explosively configured CWM/DMM that have not been damaged.	20
CWM/DMM, not explosively configured or CWM, bulk container	The CWM known or suspected of being present at the MRS are: ◆ Nonexplosively configured CWM/DMM either damaged or undamaged ◆ Bulk CWM (e.g., ton container).	15
CAIS K941 and CAIS K942	◆ The CWM/DMM known or suspected of being present at the MRS are CAIS K941-toxic gas set M-1 or CAIS K942-toxic gas set M-2/E11.	12
CAIS (chemical agent identification sets)	◆ CAIS, other than CAIS K941 and K942, are known or suspected of being present at the MRS.	10
Evidence of no CWM	◆ Following investigation, the physical evidence indicates that CWM are not present at the MRS, or the historical evidence indicates that CWM are not present at the MRS.	0
CWM CONFIGURATION	**DIRECTIONS:** Record **the single highest score** from above in the box to the right (maximum score = 30).	**0**

DIRECTIONS: Document any MRS-specific data used in selecting the ***CWM Configuration*** classifications in the space provided.

The CSE Phase II described the area and MRS as small arms use only (Skeet Range). CSE Phase II report Section 5.

Table 12

CHE Module: Sources of CWM Data Element Table

DIRECTIONS: Below are 11 sources of CWM hazards and their descriptions. Review these classifications and circle the scores that correspond with **all** the sources of CWM hazards known or suspected to be present at the MRS.

Note: The terms *CWM/UXO, CWM/DMM, CAIS/DMM, surface, subsurface, physical evidence,* and *historical evidence* are defined in Appendix C of the Primer.

Classification	Description	Score
Live-fire involving CWM	◆ The MRS is a former military range that supported live-fire of explosively configured CWM and the CWM/UXO are known or suspected of being present on the surface or in the subsurface. ◆ The MRS is a former military range that supported live-fire with conventional munitions, and CWM/DMM are on the surface or in the subsurface commingled with conventional munitions that are UXO.	10
Damaged CWM/DMM surface or subsurface	◆ There are damaged CWM/DMM on the surface or in the subsurface at the MRS.	10
Undamaged CWM/DMM surface	◆ There are undamaged CWM/DMM on the surface at the MRS.	10
CAIS/DMM surface	◆ There are CAIS/DMM on the surface.	10
Undamaged CWM/DMM, subsurface	◆ There are undamaged CWM/DMM in the subsurface at the MRS.	5
CAIS/DMM subsurface	◆ There are CAIS/DMM in the subsurface at the MRS.	5
Former CA or CWM Production Facilities	◆ The MRS is a facility that formerly engaged in production of CA or CWM, and CWM/DMM is suspected of being present on the surface or in the subsurface.	3
Former Research, Development, Testing, and Evaluation (RDT&E) facility using CWM	◆ The MRS is at a facility that formerly was involved in non-live-fire RDT&E activities (including static testing) involving CWM, and there are CWM/DMM suspected of being present on the surface or in the subsurface.	3
Former Training Facility using CWM or CAIS	◆ The MRS is a location that formerly was involved in training activities involving CWM and/or CAIS (e.g., training in recognition of CWM, decontamination training) and CWM/DMM or CAIS/DMM are suspected of being present on the surface or in the subsurface.	2
Former Storage or Transfer points of CWM	◆ The MRS is a former storage facility or transfer point (e.g., intermodal transfer) for CWM.	1
Evidence of no CWM	◆ Following investigation, the physical evidence indicates that CWM are not present at the MRS, or the historical evidence indicates that CWM are not present at the MRS.	0
SOURCES OF CWM	**DIRECTIONS:** Record **the single highest score** from above in the box to the right (maximum score = 10).	**0**

DIRECTIONS: Document any MRS-specific data used in selecting the ***Sources of CWM*** classifications in the space provided.

The CSE Phase II described the area and MRS as small arms use only (Skeet Range). CSE Phase II report Section 5.

Table 13

CHE Module: Location of CWM Data Element Table

DIRECTIONS: Below are seven classifications of CWM locations and their descriptions. Review these locations and circle the scores that correspond with **all** the locations where CWM are known or suspected of being found at the MRS.

Note: The terms *confirmed, surface, subsurface, physical evidence,* and *historical evidence* are defined in Appendix C of the Primer.

Classification	Description	Score
Confirmed surface	◆ Physical evidence indicates that there are CWM on the surface of the MRS. ◆ Historical evidence (i.e., a confirmed report such as an explosive ordnance disposal [EOD], police, or fire department report, that an incident or accident that involved CWM, regardless of configuration, occurred) indicates there are CWM on the surface of the MRS.	25
Confirmed subsurface, active	◆ Physical evidence indicates the presence of CWM in the subsurface of the MRS and the geological conditions at the MRS are likely to cause CWM to be exposed, in the future, by naturally occurring phenomena (e.g., drought, flooding, erosion, frost heave, tidal action), or intrusive activities (e.g., plowing, construction, dredging) at the MRS are likely to expose CWM. ◆ Historical evidence indicates that CWM are located in the subsurface of the MRS and the geological conditions at the MRS are likely to cause CWM to be exposed, in the future, by naturally occurring phenomena (e.g., drought, flooding, erosion, frost heave, tidal action), or intrusive activities (e.g., plowing, construction, dredging) at the MRS are likely to expose CWM.	20
Confirmed subsurface, stable	◆ Physical evidence indicates the presence of CWM in the subsurface of the MRS and the geological conditions at the MRS are not likely to cause CWM to be exposed, in the future, by naturally occurring phenomena, or intrusive activities at the MRS are not likely to cause CWM to be exposed. ◆ Historical evidence indicates that CWM are located in the subsurface of the MRS and the geological conditions at the MRS are not likely to cause CWM to be exposed, in the future, by naturally occurring phenomena, or intrusive activities at the MRS are not likely to cause CWM to be exposed.	15
Suspected (physical evidence)	◆ There is physical evidence, other than the documented presence of CWM, indicating that CWM may be present at the MRS.	10
Suspected (historical evidence)	◆ There is historical evidence indicating that CWM may be present at the MRS.	5
Subsurface, physical constraint	◆ There is physical or historical evidence indicating that CWM may be present in the subsurface, but there is a physical constraint (e.g., pavement, water depth over 120 feet) preventing direct access to the CWM.	2
Evidence of no CWM	◆ Following investigation of the MRS, there is physical evidence that there is no CWM present or there is historical evidence indicating that no CWM are present.	0
LOCATION OF CWM	**DIRECTIONS:** Record **the single highest score** from above in the box to the right (maximum score = 25).	**0**

DIRECTIONS: Document any MRS-specific data used in selecting the ***Location of CWM*** classifications in the space provided.

The CSE Phase II described the area and MRS as small arms use only (Skeet Range). CSE Phase II report Section 5.

Table 14

CHE Module: Ease of Access Data Element Table

DIRECTIONS: Below are four classifications of barrier types that can surround an MRS and their descriptions. The barrier type is directly related to the ease of public access to the MRS. Circle the score that corresponds with the ease of access to the MRS.

Note: The term *barrier* is defined in Appendix C of the Primer.

Classification	Description	Score
No barrier	◆ There is no barrier preventing access to any part of the MRS (i.e., all parts of the MRS are accessible).	10
Barrier to MRS access is incomplete	◆ There is a barrier preventing access to parts of the MRS, but not the entire MRS.	8
Barrier to MRS access is complete but not monitored	◆ There is a barrier preventing access to all parts of the MRS, but there is no surveillance (e.g., by a guard) to ensure that the barrier is effectively preventing access to all parts of the MRS.	5
Barrier to MRS access is complete and monitored	◆ There is a barrier preventing access to all parts of the MRS, and there is active continual surveillance (e.g., by a guard, video monitoring) to ensure that the barrier is effectively preventing access to all parts of the MRS.	0
EASE OF ACCESS	**DIRECTIONS:** Record **the single highest score** from above in the box to the right (maximum score = 10).	**0**

DIRECTIONS: Document any MRS-specific data used in selecting the ***Ease of Access*** classification in the space provided.

The Former Skeet Range 2 (SR859a) consists of open space within the northern triangle formed by the Holloman AFB runways. Access requires escort by approved Air Force personnel. The flight line is continually monitored. CSE Phase II Section 5.10.4

Table 15

CHE Module: Status of Property Data Element Table

DIRECTIONS: Below are three classifications of the status of a property within the Department of Defense (DoD) and their descriptions. Circle the score that corresponds with the status of property at the MRS.

Classification	Description	Score
Non-DoD control	◆ The MRS is at a location that is no longer owned by, leased to, or otherwise possessed or used by DoD. Examples are privately owned land or water bodies; land or water bodies owned or controlled by state, tribal or local governments; and land or water bodies managed by other federal agencies. ◆ The MRS is at a location that is owned by DoD, but that DoD has leased to another entity and for which DoD does not control access 24 hours per day.	5
Scheduled for transfer from DoD control	◆ The MRS is on land or is a water body that is owned, leased, or otherwise possessed by DoD, and DoD plans to transfer that land or water body to control of another entity (e.g., a state, tribal, or local government; a private party; another federal agency) within 3 years from the date the Protocol is applied.	3
DoD control	◆ The MRS is on land or is a water body that is owned, leased, or otherwise possessed by DoD. With respect to property that is leased or otherwise possessed, DoD controls access to the MRS 24 hours per day, every day of the calendar year.	0
STATUS OF PROPERTY	**DIRECTIONS:** Record **the single highest score** from above in the box to the right (maximum score = 5).	**0**

DIRECTIONS: Document any MRS-specific data used in selecting the ***Status of Property*** classification in the space provided.

The Former Skeet Range 2 (SR859a) consists of open space within the northern triangle formed by the Holloman AFB runways. Access requires escort by approved Air Force personnel. The flight line is continually monitored. CSE Phase II Section 5.10.4

Table 16

CHE Module: Population Density Data Element Table

DIRECTIONS: Below are three classifications for population density and their descriptions. Determine the population density per square mile that most closely corresponds with the population of the MRS, including the area within a two-mile radius of the MRS's perimeter. Circle the most appropriate score.

Note: Use the U.S. Census Bureau tract data available to capture the **highest** population density within a two-mile radius of the perimeter of the MRS.

Classification	Description	Score
> 500 persons per square mile	◆ There are more than 500 persons per square mile in the U.S. Census Bureau tract in which the MRS is located.	5
100–500 persons per square mile	◆ There are 100 to 500 persons per square mile in the U.S. Census Bureau tract in which the MRS is located.	3
< 100 persons per square mile	◆ There are fewer than 100 persons per square mile in the U.S. Census Bureau tract in which the MRS is located.	1
POPULATION DENSITY	**DIRECTIONS:** Record **the single highest score** from above in the box to the right (maximum score = 5).	**1**

DIRECTIONS: Document any MRS-specific data used in selecting the ***Population Density*** classification in the space provided.

According to the 2010 US Census, the population density of Otero County is 10 persons per square mile. CSE Phase II Report Section 5.10.5

Table 17

CHE Module: Population Near Hazard Data Element Table

DIRECTIONS: Below are six classifications describing the number of inhabited structures near the MRS. The number of inhabited buildings relates to the potential population near the MRS. Determine the number of inhabited structures within two miles of the MRS boundary and circle the score that corresponds with the number of inhabited structures.

Note: The term *inhabited structures* is defined in Appendix C of the Primer.

Classification	Description	Score
26 or more inhabited structures	◆ There are 26 or more inhabited structures located up to 2 miles from the boundary of the MRS, within the boundary of the MRS, or both.	5
16 to 25 inhabited structures	◆ There are 16 to 25 inhabited structures located up to 2 miles from the boundary of the MRS, within the boundary of the MRS, or both.	4
11 to 15 inhabited structures	◆ There are 11 to 15 inhabited structures located up to 2 miles from the boundary of the MRS, within the boundary of the MRS, or both.	3
6 to 10 inhabited structures	◆ There are 6 to 10 inhabited structures located up to 2 miles from the boundary of the MRS, within the boundary of the MRS, or both.	2
1 to 5 inhabited structures	◆ There are 1 to 5 inhabited structures located up to 2 miles from the boundary of the MRS, within the boundary of the MRS, or both.	1
0 inhabited structures	◆ There are no inhabited structures located up to 2 miles from the boundary of the MRS, within the boundary of the MRS, or both.	0
POPULATION NEAR HAZARD	**DIRECTIONS:** Record **the single highest score** from above in the box to the right (maximum score = 5).	**5**

DIRECTIONS: Document any MRS-specific data used in selecting the ***Population Near Hazard*** classification in the space provided.

There are more than 26 buildings within a 2 mile radius of the MRS, including operational mission support, recreational facilities, base housing, and buildings that support the flight line. CSE Phase II Report Section 5.10.5

Table 18

CHE Module: Types of Activities/Structures Data Element Table

DIRECTIONS: Below are five classifications of activities and/or inhabited structures and their descriptions. Review the types of activities that occur and/or structures that are present within two miles of the MRS and circle the scores that correspond with **all** the activities/structures classifications at the MRS.

Note: The term *inhabited structures* is defined in Appendix C of the Primer.

Classification	Description	Score
Residential, educational, commercial, or subsistence	◆ Activities are conducted, or inhabited structures are located up to two miles from the MRS's boundary or within the MRS's boundary, that are associated with any of the following purposes: residential, educational, child care, critical assets (e.g., hospitals, fire and rescue, police stations, dams), hotels, commercial, shopping centers, playgrounds, community gathering areas, religious sites, or sites used for subsistence hunting, fishing, and gathering.	5
Parks and recreational areas	◆ Activities are conducted, or inhabited structures are located up to two miles from the MRS's boundary or within the MRS's boundary, that are associated with parks, nature preserves, or other recreational uses.	4
Agricultural, forestry	◆ Activities are conducted, or inhabited structures are located up to two miles from the MRS's boundary or within the MRS's boundary, that are associated with agriculture or forestry.	3
Industrial or warehousing	◆ Activities are conducted, or inhabited structures are located up to two miles from the MRS's boundary or within the MRS's boundary, that are associated with industrial activities or warehousing.	2
No known or recurring activities	◆ There are no known of recurring activities occurring up to two miles from the MRS's boundary or within the MRS's boundary.	1
TYPES OF ACTIVITIES/STRUCTURES	**DIRECTIONS:** Record **the single highest score** from above in the box to the right (maximum score = 5).	**5**

DIRECTIONS: Document any MRS-specific data used in selecting the ***Types of Activities/Structures*** classifications in the space provided.

Buildings within a 2 mile radius of the MRS include operational mission support, recreational facilities, base housing, and buildings that support the flight line. CSE Phase II Report Section 5.10.5

Table 19

CHE Module: Ecological and/or Cultural Resources Data Element Table

DIRECTIONS: Below are four classifications of ecological and/or cultural resources and their descriptions. Review the types of resources present and circle the score that corresponds with the ecological and/or cultural resources present on the MRS.

Note: The terms *ecological resources* and *cultural resources* are defined in Appendix C of the Primer.

Classification	Description	Score
Ecological and cultural resources present	◆ There are both ecological and cultural resources present on the MRS.	5
Ecological resources present	◆ There are ecological resources present on the MRS.	3
Cultural resources present	◆ There are cultural resources present on the MRS.	3
No ecological or cultural resources present	◆ There are no ecological resources or cultural resources present on the MRS.	0
ECOLOGICAL AND/OR CULTURAL RESOURCES	**DIRECTIONS:** Record **the single highest score** from above in the box to the right (maximum score = 5).	**0**

DIRECTIONS: Document any MRS-specific data used in selecting the ***Ecological and/or Cultural Resources*** classification in the space provided.

No cultural or ecological resources are present at the MRS. CSE Phase II Report Section 5.10.5

Table 20
Determining the CHE Module Rating

DIRECTIONS:

1. From Tables 11–19, record the data element scores in the **Score** boxes to the right.
2. Add the **Score** boxes for each of the three factors and record this number in the **Value** boxes to the right.
3. Add the three **Value** boxes and record this number in the **CHE Module Total** box below.
4. Circle the appropriate range for the **CHE Module Total** below.
5. Circle the **CHE Module Rating** that corresponds to the range selected and record this value in the **CHE Module Rating** box found at the bottom of the table.

Note:
An alternative module rating may be assigned when a module letter rating is inappropriate. An alternative module rating is used when more information is needed to score one or more data elements, contamination at an MRS was previously addressed, or there is no reason to suspect contamination was ever present at an MRS.

	Source	Score	Value
CWM Hazard Factor Data Elements			
CWM Configuration	Table 11	0	0
Sources of CWM	Table 12	0	
Accessibility Factor Data Elements			
Location of CWM	Table 13	0	1
Ease of Access	Table 14	10	
Status of Property	Table 15	0	
Receptor Factor Data Elements			
Population Density	Table 16	1	11
Population Near Hazard	Table 17	2	
Types of Activities/Structures	Table 18	5	
Ecological and/or Cultural Resources	Table 19	3	
CHE MODULE TOTAL			12

CHE Module Total	CHE Module Rating
92 to 100	A
82 to 91	B
71 to 81	C
60 to 70	D
48 to 59	E
38 to 47	F
less than 38	G
Alternative Module Ratings	Evaluation Pending
	No Longer Required
	No Known or Suspected CWM Hazard
CHE MODULE RATING	**No Known or Suspected CWM Hazard**

Table 21

HHE Module: Groundwater Data Element Table

Contaminant Hazard Factor (CHF)

DIRECTIONS: Record the **maximum concentrations** of all contaminants in the MRS's groundwater and their **comparison values** (from Appendix B of the Primer) in the table below. Additional contaminants can be recorded on Table 27. Calculate and record the **ratios** for each contaminant by dividing the **maximum concentration** by the **comparison value**. Determine the **CHF** by adding the contaminant **ratios** together, including any additional groundwater contaminants recorded on Table 27. Based on the **CHF**, use the **CHF Scale** to determine and record the **CHF Value**. If there is no known or suspected MC hazard present in the groundwater, select the box at the bottom of the table.

Contaminant	Maximum Concentration (μg/L)	Comparison Value (μg/L)	Ratios
CHF Scale	**CHF Value**	**Sum The Ratios**	**NA**
CHF > 100	**H (High)**	$CHF = \sum \frac{\text{[Maximum Concentration of Contaminant]}}{\text{[Comparison Value for Contaminant]}}$	
100 > CHF > 2	**M (Medium)**		
2 > CHF	**L (Low)**		
CONTAMINANT HAZARD FACTOR	**DIRECTIONS:** Record **the CHF Value** from above in the box to the right (maximum value = H).		**NA**

Migratory Pathway Factor

DIRECTIONS: Circle the value that corresponds most closely to the groundwater migratory pathway at the MRS.

Classification	Description	Value
Evident	Analytical data or observable evidence indicates that contamination in the groundwater is present at, moving toward, or has moved to a point of exposure.	H
Potential	Contamination in groundwater has moved only slightly beyond the source (i.e., tens of feet), could move but is not moving appreciably, or information is not sufficient to make a determination of Evident or Confined.	M
Confined	Information indicates a low potential for contaminant migration from the source via the groundwater to a potential point of exposure (possibly due to the presence of geological structures or physical controls).	L
MIGRATORY PATHWAY FACTOR	**DIRECTIONS:** Record **the single highest value** from above in the box to the right (maximum value = H).	**NA**

Receptor Factor

DIRECTIONS: Circle the value that corresponds most closely to the groundwater receptors at the MRS.

Classification	Description	Value
Identified	There is a threatened water supply well downgradient of the source and the groundwater is a current source of drinking water or source of water for other beneficial uses such as irrigation/agriculture (equivalent to Class I or IIA aquifer).	H
Potential	There is no threatened water supply well downgradient of the source and the groundwater is currently or potentially usable for drinking water, irrigation, or agriculture (equivalent to Class I, IIA, or IIB aquifer).	M
Limited	There is no potentially threatened water supply well downgradient of the source and the groundwater is not considered a potential source of drinking water and is of limited beneficial use (equivalent to Class IIIA or IIIB aquifer, or where perched aquifer exists only).	L
RECEPTOR FACTOR	**DIRECTIONS:** Record **the single highest value** from above in the box to the right (maximum value = H).	**NA**

No Known or Suspected Groundwater MC Hazard ✓

Table 22

HHE Module: Surface Water – Human Endpoint Data Element Table

Contaminant Hazard Factor (CHF)

DIRECTIONS: Record the **maximum concentrations** of all contaminants in the MRS's surface water and their **comparison values** (from Appendix B of the Primer) in the table below. Additional contaminants can be recorded on Table 27. Calculate and record the **ratios** for each contaminant by dividing the **maximum concentration** by the **comparison value**. Determine the **CHF** by adding the contaminant **ratios** together, including any additional surface water contaminants recorded on Table 27. Based on the **CHF**, use the **CHF Scale** to determine and record the **CHF Value**. If there is no known or suspected MC hazard with human endpoints present in the surface water, select the box at the bottom of the table.

Contaminant	Maximum Concentration (μg/L)	Comparison Value (μg/L)	Ratios
CHF Scale	**CHF Value**	**Sum The Ratios**	**NA**
CHF > 100	**H (High)**	$CHF = \sum \frac{\text{[Maximum Concentration of Contaminant]}}{\text{[Comparison Value for Contaminant]}}$	
100 > CHF > 2	**M (Medium)**		
2 > CHF	**L (Low)**		
CONTAMINANT HAZARD FACTOR	**DIRECTIONS:** Record **the CHF Value** from above in the box to the right (maximum value = H).		**NA**

Migratory Pathway Factor

DIRECTIONS: Circle the value that corresponds most closely to the surface water migratory pathway at the MRS.

Classification	Description	Value
Evident	Analytical data or observable evidence indicates that contamination in the surface water is present at, moving toward, or has moved to a point of exposure.	H
Potential	Contamination in surface water has moved only slightly beyond the source (i.e., tens of feet), could move but is not moving appreciably, or information is not sufficient to make a determination of Evident or Confined.	M
Confined	Information indicates a low potential for contaminant migration from the source via the surface water to a potential point of exposure (possibly due to the presence of geological structures or physical controls).	L
MIGRATORY PATHWAY FACTOR	**DIRECTIONS:** Record **the single highest value** from above in the box to the right (maximum value = H).	**NA**

Receptor Factor

DIRECTIONS: Circle the value that corresponds most closely to the surface water receptors at the MRS.

Classification	Description	Value
Identified	Identified receptors have access to surface water to which contamination has moved or can move.	H
Potential	Potential for receptors to have access to surface water to which contamination has moved or can move.	M
Limited	Little or no potential for receptors to have access to surface water to which contamination has moved or can move.	L
RECEPTOR FACTOR	**DIRECTIONS:** Record **the single highest value** from above in the box to the right (maximum value = H).	**NA**

No Known or Suspected Surface Water (Human Endpoint) MC Hazard ✓

Table 23

HHE Module: Sediment – Human Endpoint Data Element Table

Contaminant Hazard Factor (CHF)

DIRECTIONS: Record the **maximum concentrations** of all contaminants in the MRS's sediment and their **comparison values** (from Appendix B of the Primer) in the table below. Additional contaminants can be recorded on Table 27. Calculate and record the **ratios** for each contaminant by dividing the **maximum concentration** by the **comparison value**. Determine the **CHF** by adding the contaminant **ratios** together, including any additional sediment contaminants recorded on Table 27. Based on the **CHF**, use the **CHF Scale** to determine and record the **CHF Value**. If there is no known or suspected MC hazard with human endpoints present in the sediment, select the box at the bottom of the table.

Contaminant	Maximum Concentration (mg/kg)	Comparison Value (mg/kg)	Ratios
CHF Scale	**CHF Value**	**Sum The Ratios**	**NA**
CHF > 100	**H (High)**	$CHF = \sum \frac{\text{[Maximum Concentration of Contaminant]}}{\text{[Comparison Value for Contaminant]}}$	
100 > CHF > 2	**M (Medium)**		
2 > CHF	**L (Low)**		
CONTAMINANT HAZARD FACTOR	**DIRECTIONS:** Record **the CHF Value** from above in the box to the right maximum value = H).		**NA**

Migratory Pathway Factor

DIRECTIONS: Circle the value that corresponds most closely to the sediment migratory pathway at the MRS.

Classification	Description	Value
Evident	Analytical data or observable evidence indicates that contamination in the sediment is present at, moving toward, or has moved to a point of exposure.	H
Potential	Contamination in sediment has moved only slightly beyond the source (i.e., tens of feet), could move but is not moving appreciably, or information is not sufficient to make a determination of Evident or Confined.	M
Confined	Information indicates a low potential for contaminant migration from the source via the sediment to a potential point of exposure (possibly due to the presence of geological structures or physical controls).	L
MIGRATORY PATHWAY FACTOR	**DIRECTIONS:** Record **the single highest value** from above in the box to the right (maximum value = H).	**NA**

Receptor Factor

DIRECTIONS: Circle the value that corresponds most closely to the sediment receptors at the MRS.

Classification	Description	Value
Identified	Identified receptors have access to sediment to which contamination has moved or can move.	H
Potential	Potential for receptors to have access to sediment to which contamination has moved or can move.	M
Limited	Little or no potential for receptors to have access to sediment to which contamination has moved or can move.	L
RECEPTOR FACTOR	**DIRECTIONS:** Record **the single highest value** from above in the box to the right (maximum value = H).	**NA**

No Known or Suspected Sediment (Human Endpoint) MC Hazard ✓

Table 24

HHE Module: Surface Water – Ecological Endpoint Data Element Table

Contaminant Hazard Factor (CHF)

DIRECTIONS: Record the **maximum concentrations** of all contaminants in the MRS's surface water and their **comparison values** (from Appendix B of the Primer) in the table below. Additional contaminants can be recorded on Table 27. Calculate and record the **ratios** for each contaminant by dividing the **maximum concentration** by the **comparison value**. Determine the **CHF** by adding the contaminant **ratios** together, including any additional surface water contaminants recorded on Table 27. Based on the **CHF**, use the **CHF Scale** to determine and record the **CHF Value**. If there is no known or suspected MC hazard with ecological endpoints present in the surface water, select the box at the bottom of the table.

Contaminant	Maximum Concentration (μg/L)	Comparison Value (μg/L)	Ratios
CHF Scale	**CHF Value**	**Sum the Ratios**	**NA**
CHF > 100	**H (High)**	$CHF = \sum \frac{\text{[Maximum Concentration of Contaminant]}}{\text{[Comparison Value for Contaminant]}}$	
100 > CHF > 2	**M (Medium)**		
2 > CHF	**L (Low)**		
CONTAMINANT HAZARD FACTOR	**DIRECTIONS:** Record **the CHF Value** from above in the box to the right (maximum value = H).		**NA**

Migratory Pathway Factor

DIRECTIONS: Circle the value that corresponds most closely to the surface water migratory pathway at the MRS.

Classification	Description	Value
Evident	Analytical data or observable evidence indicates that contamination in the surface water is present at, moving toward, or has moved to a point of exposure.	H
Potential	Contamination in surface water has moved only slightly beyond the source (i.e., tens of feet), could move but is not moving appreciably, or information is not sufficient to make a determination of Evident or Confined.	M
Confined	Information indicates a low potential for contaminant migration from the source via the surface water to a potential point of exposure (possibly due to the presence of geological structures or physical controls).	L
MIGRATORY PATHWAY FACTOR	**DIRECTIONS:** Record **the single highest value** from above in the box to the right (maximum value = H).	**NA**

Receptor Factor

DIRECTIONS: Circle the value that corresponds most closely to the surface water receptors at the MRS.

Classification	Description	Value
Identified	Identified receptors have access to surface water to which contamination has moved or can move.	H
Potential	Potential for receptors to have access to surface water to which contamination has moved or can move.	M
Limited	Little or no potential for receptors to have access to surface water to which contamination has moved or can move.	L
RECEPTOR FACTOR	**DIRECTIONS:** Record **the single highest value** from above in the box to the right (maximum value = H).	**NA**

No Known or Suspected Surface Water (Ecological Endpoint) MC Hazard ✓

Table 25

HHE Module: Sediment – Ecological Endpoint Data Element Table

Contaminant Hazard Factor (CHF)

DIRECTIONS: Record the **maximum concentrations** of all contaminants in the MRS's sediment and their **comparison values** (from Appendix B of the Primer) in the table below. Additional contaminants can be recorded on Table 27. Calculate and record the **ratios** for each contaminant by dividing the **maximum concentration** by the **comparison value**. Determine the **CHF** by adding the contaminant **ratios** together, including any additional sediment contaminants recorded on Table 27. Based on the **CHF**, use the **CHF Scale** to determine and record the **CHF Value**. If there is no known or suspected MC hazard with ecological endpoints present in the sediment, select the box at the bottom of the table.

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Contaminant	Maximum Concentration (mg/kg)	Comparison Value (mg/kg)	Ratios
CHF Scale	**CHF Value**	**Sum the Ratios**	**NA**
CHF > 100	**H (High)**	$CHF = \sum \frac{\text{[Maximum Concentration of Contaminant]}}{\text{[Comparison Value for Contaminant]}}$	
100 > CHF > 2	**M (Medium)**		
2 > CHF	**L (Low)**		
CONTAMINANT HAZARD FACTOR	**DIRECTIONS:** Record **the CHF Value** from above in the box to the right (maximum value = H).		**NA**

Migratory Pathway Factor

DIRECTIONS: Circle the value that corresponds most closely to the sediment migratory pathway at the MRS.

Classification	Description	Value
Evident	Analytical data or observable evidence indicates that contamination in the sediment is present at, moving toward, or has moved to a point of exposure.	H
Potential	Contamination in sediment has moved only slightly beyond the source (i.e., tens of feet), could move but is not moving appreciably, or information is not sufficient to make a determination of Evident or Confined.	M
Confined	Information indicates a low potential for contaminant migration from the source via the sediment to a potential point of exposure (possibly due to the presence of geological structures or physical controls).	L
MIGRATORY PATHWAY FACTOR	**DIRECTIONS:** Record **the single highest value** from above in the box to the right (maximum value = H).	**NA**

Receptor Factor

DIRECTIONS: Circle the value that corresponds most closely to the sediment receptors at the MRS.

Classification	Description	Value
Identified	Identified receptors have access to sediment to which contamination has moved or can move.	H
Potential	Potential for receptors to have access to sediment to which contamination has moved or can move.	M
Limited	Little or no potential for receptors to have access to sediment to which contamination has moved or can move.	L
RECEPTOR FACTOR	**DIRECTIONS:** Record **the single highest value** from above in the box to the right (maximum value = H).	**NA**

No Known or Suspected Sediment (Ecological Endpoint) MC Hazard ✓

Table 26

HHE Module: Surface Soil Data Element Table

Contaminant Hazard Factor (CHF)

DIRECTIONS: Record the **maximum concentrations** of all contaminants in the MRS's surface soil and their **comparison values** (from Appendix B of the Primer) in the table below. Additional contaminants can be recorded on Table 27. Calculate and record the **ratios** for each contaminant by dividing the **maximum concentration** by the **comparison value**. Determine the **CHF** by adding the contaminant **ratios** together, including any additional surface soil contaminants recorded on Table 27. Based on the **CHF**, use the **CHF Scale** to determine and record the **CHF Value**. If there is no known or suspected MC hazard present in the surface soil, select the box at the bottom of the table.

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Contaminant	Maximum Concentration (mg/kg)	Comparison Value (mg/kg)	Ratio
Pyrene	96	2300	0.042
Napthalene	1.4	56	0.025
Fluorene	0.51	2700	0.0002
Fluoranthene	110	2300	0.047
Anthracene	10	22000	0.0005
CHF Scale	**CHF Value**	**Sum the Ratios**	13.79
CHF > 100	**H (High)**	$CHF = \sum \frac{\text{[Maximum Concentration of Contaminant]}}{\text{[Comparison Value for Contaminant]}}$	
100 > CHF > 2	**M (Medium)**		
2 > CHF	**L (Low)**		
CONTAMINANT HAZARD FACTOR	**DIRECTIONS:** Record **the CHF Value** from above in the box to the right (maximum value = H).		**M**

Migratory Pathway Factor

DIRECTIONS: Circle the value that corresponds most closely to the surface soil migratory pathway at the MRS.

Classification	Description	Value
Evident	Analytical data or observable evidence indicates that contamination in the surface soil is present at, moving toward, or has moved to a point of exposure.	H
Potential	Contamination in surface soil has moved only slightly beyond the source (i.e., tens of feet), could move but is not moving appreciably, or information is not sufficient to make a determination of Evident or Confined.	M
Confined	Information indicates a low potential for contaminant migration from the source via the surface soil to a potential point of exposure (possibly due to the presence of geological structures or physical controls).	L
MIGRATORY PATHWAY FACTOR	**DIRECTIONS:** Record **the single highest value** from above in the box to the right (maximum value = H).	**L**

Receptor Factor

DIRECTIONS: Circle the value that corresponds most closely to the surface soil receptors at the MRS.

Classification	Description	Value
Identified	Identified receptors have access to surface soil to which contamination has moved or can move.	H
Potential	Potential for receptors to have access to surface soil to which contamination has moved or can move.	M
Limited	Little or no potential for receptors to have access to surface soil to which contamination has moved or can move.	L
RECEPTOR FACTOR	**DIRECTIONS:** Record **the single highest value** from above in the box to the right (maximum value = H).	**L**

No Known or Suspected Surface Soil MC Hazard

Table 27

HHE Module: Supplemental Contaminant Hazard Factor Table

Contaminant Hazard Factor (CHF)

DIRECTIONS: Only use this table if there are more than five contaminants in any given medium present at the MRS. This is a supplemental table designed to hold information about contaminants that do not fit in the previous tables. Indicate the **media** in which these contaminants are present. Then record all **contaminants**, their **maximum concentrations** and their **comparison values** (from Appendix B of the Primer) in the table below. Calculate and record the **ratio** for each contaminant by dividing the **maximum concentration** by the **comparison value**. Determine the **CHF** for each medium on the appropriate media-specific tables.

Note: Do not add ratios from different media.

Media	Contaminant	Maximum Concentration (mg/kg)	Comparison Value	Ratio
Soil	Acenapthene	1.4	3700	0.0004
Soil	2-Methylnapthalene	0.061	310	0.0002
Soil	Lead	463	400	1.16
Soil	Indeno(1,2,3-cd)pyrene	30	62	0.48
Soil	Dibenz(ah)anthracene	9.2	6.2	1.48
Soil	Chrysene	62	6200	0.01
Soil	Benzo(k)fluoranthene	45	620	0.073
Soil	Benzo(b)fluoranthene	65	62	1.05
Soil	Benzo(a)pyrene	51	6.2	8.23
Soil	Antimony	1.2	31	0.039
Soil	Arsenic	3.9	22	0.18
Soil	Copper	10.3	3100	0.003
Soil	Zinc	38	23000	0.002
Soil	Benzo(a)anthracene	60	62	0.97

Table 28

Determining the HHE Module Rating

DIRECTIONS:

1. Record the letter values (H, M, L) for the **Contaminant Hazard**, **Migration Pathway**, and **Receptor Factors** for the media (from Tables 21–26) in the corresponding boxes below.
2. Record the media's three-letter combinations in the **Three-Letter Combination** boxes below (three-letter combinations are arranged from Hs to Ms to Ls).
3. Using the **HHE Ratings** provided below, determine each media's rating (A–G) and record the letter in the corresponding **Media Rating** box below.

Media (Source)	Contaminant Hazard Factor Value	Migratory Pathway Factor Value	Receptor Factor Value	Three-Letter Combination (Hs-Ms-Ls)	Media Rating (A-G)
Groundwater (Table 21)	NA	NA	NA	NA	NA
Surface Water/Human Endpoint (Table 22)	NA	NA	NA	NA	NA
Sediment/Human Endpoint (Table 23)	NA	NA	NA	NA	NA
Surface Water/Ecological Endpoint (Table 24)	NA	NA	NA	NA	NA
Sediment/Ecological Endpoint (Table 25)	NA	NA	NA	NA	NA
Surface Soil (Table 26)	M	L	L	MLL	F

DIRECTIONS (cont.):

4. Select the single highest Media Rating (A is highest; G is lowest) and enter the letter in the **HHE Module Rating** box.

Note:

An alternative module rating may be assigned when a module letter rating is inappropriate. An alternative module rating is used when more information is needed to score one or more media, contamination at an MRS was previously addressed, or there is no reason to suspect contamination was ever present at an MRS.

HHE MODULE RATING	**F**

HHE Ratings (for reference only)

Combination	Rating
HHH	A
HHM	B
HHL	C
HMM	C
HML	D
MMM	D
HLL	E
MML	E
MLL	F
LLL	G
Alternative Module Ratings	Evaluation Pending
	No Longer Required
	No Known or Suspected MC Hazard

Table 29
MRS Priority

DIRECTIONS: In the chart below, circle the letter **rating** for each module recorded in Table 10 (EHE), Table 20 (CHE), and Table 28 (HHE). Circle the corresponding numerical **priority** for each module. If information to determine the module rating is not available, choose the appropriate alternative module rating. The MRS Priority is the single highest priority; record this relative priority in the **MRS Priority or Alternative MRS Rating** at the bottom of the table.

Note: An MRS assigned Priority 1 has the highest relative priority; an MRS assigned Priority 8 has the lowest relative priority. Only an MRS with CWM known or suspected to be present can be assigned Priority 1; an MRS that has CWM known or suspected to be present cannot be assigned Priority 8.

EHE Rating	Priority	CHE Rating	Priority	HHE Rating	Priority
		A	1		
A	2	B	2	A	2
B	3	C	3	B	3
C	4	D	4	C	4
D	5	E	5	D	5
E	6	F	6	E	6
F	7	G	7	F	7
G	8			G	8
Evaluation Pending		Evaluation Pending		Evaluation Pending	
No Longer Required		No Longer Required		No Longer Required	
No Known or Suspected Explosive Hazard		No Known or Suspected CWM Hazard		No Known or Suspected MC Hazard	
MRS PRIORITY or ALTERNATIVE MRS RATING				7	

Table A
MRS Background Information

DIRECTIONS: Record the background information below for the MRS to be evaluated. Much of this information is available from Service and DoD databases. If the MRS is located on a FUDS property, the suitable FUDS property information should be substituted. In the **MRS Summary**, briefly describe the UXO, DMM, or MC that are known or suspected to be present, the exposure setting (the MRS's physical environment), any other incidental nonmunitions-related contaminants (e.g., benzene, trichloroethylene) found at the MRS, and any potentially exposed human and ecological receptors. If possible, include a map of the MRS.

Munitions Response Site Name: TS862(a) – Jeep Target Area Skeet Range

Component: Air Force

Installation/Property Name: Holloman Air Force Base

Location (City, County, State): Alamogordo, Otero County, NM

Site Name/Project Name (Project No.): TS859(a) – Jeep Target Area Skeet Range

Date Information Entered/Updated: 6/24/2015

Point of Contact (Name/Phone): Peter Corigliano / 315-336-7721

Project Phase (check only one):

❑ PA	❑ SI	✓ RI	❑ FS	❑ RD
❑ RA-C	❑ RIP	❑ RA-O	❑ RC	❑ LTM

Media Evaluated (check all that apply):

❑ Groundwater	❑ Sediment (human receptor)
✓ Surface soil	❑ Surface Water (ecological receptor)
❑ Sediment (ecological receptor)	❑ Surface Water (human receptor)

MRS Summary:

MRS Description: Describe the munitions-related activities that occurred at the installation, the dates of operation, and the UXO, DMM, or MC known or suspected to be present. When possible, identify munitions, CWM, and MC by type: The Jeep Target Area Skeet Range (TS862a) is a 5.7-acre split from the original Jeep Target Area Skeet Range MRA. The MRA acreage increased from 37.5 acres to 40.3 acres based on PAH contamination. The site is located just northeast of the Jeep Target Area. The MRS measures approximately 570 ft by 810 ft with a perimeter of 2,420 ft and exhibits relatively flat topography with soils consisting of the Yesum-Nasa complex. Beneath Holloman AFB, groundwater ranges from 5 to 50 ft bgs, with shallower groundwater found on the southern end of the base. There are no wetlands associated with this MRS. Evidence of typical skeet range activity was observed at this MRS, including clay target debris, lead shot, and shotgun shells. The firing points were still present at this site, but all other infrastructure had been demolished.

Description of Pathways for Human and Ecological Receptors: Lead and PAH compounds were detected with PAH compounds above HHSLs. Soil pathways are considered complete for both human and ecological receptors.

Description of Receptors (Human and Ecological): Human receptors at Holloman AFB include authorized installation personnel (i.e., base maintenance workers and construction workers and residents), authorized contractors and visitors (i.e., workers and recreational users) and trespassers. Ecological receptors include all current and future animal and plant life, which may be exposed to the soil at this MRS.

Table 1

EHE Module: Munitions Type Data Element Table

DIRECTIONS: Below are 11 classifications of munitions and their descriptions. Circle the scores that correspond with **all** the munitions types known or suspected to be present at the MRS.

Note: The terms *practice munitions, small arms ammunition, physical evidence,* and *historical evidence* are defined in Appendix C of the Primer.

Classification	Description	Score
Sensitive	◆ UXO that are considered most likely to function upon any interaction with exposed persons (e.g., submunitions, 40mm high-explosive [HE] grenades, white phosphorus [WP] munitions, high-explosive antitank [HEAT] munitions, and practice munitions with sensitive fuzes, but excluding all other practice munitions). ◆ Hand grenades containing energetic filler. ◆ Bulk primary explosives, or mixtures of these with environmental media, such that the mixture poses an explosive hazard.	30
High explosive (used or damaged)	◆ UXO containing a high-explosive filler (e.g., RDX, Composition B), that are not considered "sensitive." ◆ DMM containing a high-explosive filler that have: ▪ Been damaged by burning or detonation ▪ Deteriorated to the point of instability.	25
Pyrotechnic (used or damaged)	◆ UXO containing a pyrotechnic filler other than white phosphorus (e.g., flares, signals, simulators, smoke grenades). ◆ DMM containing a pyrotechnic filler other than white phosphorus (e.g., flares, signals, simulators, smoke grenades) that have: ▪ Been damaged by burning or detonation ▪ Deteriorated to the point of instability.	20
High explosive (unused)	◆ DMM containing a high-explosive filler that: ▪ Have not been damaged by burning or detonation ▪ Are not deteriorated to the point of instability.	15
Propellant	◆ UXO containing mostly single-, double-, or triple-based propellant, or composite propellants (e.g., a rocket motor). ◆ DMM containing mostly single-, double-, or triple-based propellant, or composite propellants (e.g., a rocket motor) that are: ▪ Damaged by burning or detonation ▪ Deteriorated to the point of instability.	15
Bulk secondary high explosives, pyrotechnics, or propellant	◆ DMM containing mostly single-, double-, or triple-based propellant, or composite propellants (e.g., a rocket motor). ◆ DMM that are bulk secondary high explosives, pyrotechnic compositions, or propellant (not contained in a munition), or mixtures of these with environmental media such that the mixture poses an explosive hazard.	10
Pyrotechnic (not used or damaged)	◆ DMM containing a pyrotechnic filler (i.e., red phosphorus), other than white phosphorus filler, that: ▪ Have not been damaged by burning or detonation ▪ Are not deteriorated to the point of instability.	10
Practice	◆ UXO that are practice munitions that are not associated with a sensitive fuze. ◆ DMM that are practice munitions that are not associated with a sensitive fuze and that have not: ▪ Been damaged by burning or detonation ▪ Deteriorated to the point of instability.	5
Riot control	◆ UXO or DMM containing a riot control agent filler (e.g., tear gas).	3
Small arms	◆ Used munitions or DMM that are categorized as small arms ammunition. (Physical evidence or historical evidence that no other types of munitions [e.g., grenades, subcaliber training rockets, demolition charges] were used or are present on the MRS is required for selection of this category.)	2
Evidence of no munitions	◆ Following investigation of the MRS, there is physical evidence that there are no UXO or DMM present, or there is historical evidence indicating that no UXO or DMM are present.	0
MUNITIONS TYPE	**DIRECTIONS:** Record **the single highest score** from above in the box to the right (maximum score = 30).	**2**

DIRECTIONS: Document any MRS-specific data used in selecting the ***Munitions Type*** classifications in the space provided.

The lead shot and clay target debris observed are consistent with historical skeet range usage. CSE Phase II Section 5.13.6 – Field Investigation Results.

Table 2

EHE Module: Source of Hazard Data Element Table

DIRECTIONS: Below are 11 classifications describing sources of explosive hazards. Circle the scores that correspond with **all** the sources of explosive hazards known or suspected to be present at the MRS.

Note: The terms *former range, practice munitions, small arms range, physical evidence,* and *historical evidence* are defined in Appendix C of the Primer.

Classification	Description	Score
Former range	◆ The MRS is a former military range where munitions (including practice munitions with sensitive fuzes) have been used. Such areas include impact or target areas and associated buffer and safety zones.	10
Former munitions treatment (i.e., OB/OD) unit	◆ The MRS is a location where UXO or DMM (e.g., munitions, bulk explosives, bulk pyrotechnic, or bulk propellants) were burned or detonated for the purpose of treatment prior to disposal.	8
Former practice munitions range	◆ The MRS is a former military range on which only practice munitions without sensitive fuzes were used.	6
Former maneuver area	◆ The MRS is a former maneuver area where no munitions other than flares, simulators, smokes, and blanks were used. There must be evidence that no other munitions were used at the location to place an MRS into this category.	5
Former burial pit or other disposal area	◆ The MRS is a location where DMM were buried or disposed of (e.g., disposed of into a water body) without prior thermal treatment.	5
Former industrial operating facilities	◆ The MRS is a location that is a former munitions maintenance, manufacturing, or demilitarization facility.	4
Former firing points	◆ The MRS is a firing point, where the firing point is delineated as an MRS separate from the rest of a former military range.	4
Former missile or air defense artillery emplacements	◆ The MRS is a former missile defense or air defense artillery (ADA) emplacement not associated with a military range.	2
Former storage or transfer points	◆ The MRS is a location where munitions were stored or handled for transfer between different modes of transportation (e.g., rail to truck, truck to weapon system).	2
Former small arms range	◆ The MRS is a former military range where only small arms ammunition was used. (There must be evidence that no other types of munitions [e.g., grenades] were used or are present to place an MRS into this category.)	1
Evidence of no munitions	◆ Following investigation of the MRS, there is physical evidence that no UXO or DMM are present, or there is historical evidence indicating that no UXO or DMM are present.	0
SOURCE OF HAZARD	**DIRECTIONS:** Record **the single highest score** from above in the box to the right (maximum score = 10).	**1**

DIRECTIONS: Document any MRS-specific data used in selecting the ***Source of Hazard*** classifications in the space provided.

The lead shot and clay target debris observed are consistent with historical skeet range usage. CSE Phase II Section 5.13.6 – Field Investigation Results.

Table 3

EHE Module: Location of Munitions Data Element Table

DIRECTIONS: Below are eight classifications of munitions locations and their descriptions. Circle the scores that correspond with **all** the locations where munitions are known or suspected to be present at the MRS.

Note: The terms *confirmed, surface, subsurface, small arms ammunition, physical evidence,* and *historical evidence* are defined in Appendix C of the Primer.

Classification	Description	Score
Confirmed surface	◆ Physical evidence indicates that there are UXO or DMM on the surface of the MRS. ◆ Historical evidence (i.e., a confirmed report such as an explosive ordnance disposal [EOD], police, or fire department report that an incident or accident that involved UXO or DMM occurred) indicates there are UXO or DMM on the surface of the MRS.	25
Confirmed subsurface, active	◆ Physical evidence indicates the presence of UXO or DMM in the subsurface of the MRS, and the geological conditions at the MRS are likely to cause UXO or DMM to be exposed, in the future, by naturally occurring phenomena (e.g., drought, flooding, erosion, frost heave, tidal action), or intrusive activities (e.g., plowing, construction, dredging) at the MRS are likely to expose UXO or DMM. ◆ Historical evidence indicates that UXO or DMM are located in the subsurface of the MRS and the geological conditions at the MRS are likely to cause UXO or DMM to be exposed, in the future, by naturally occurring phenomena (e.g., drought, flooding, erosion, frost heave, tidal action), or intrusive activities (e.g., plowing, construction, dredging) at the MRS are likely to expose UXO or DMM.	20
Confirmed subsurface, stable	◆ Physical evidence indicates the presence of UXO or DMM in the subsurface of the MRS and the geological conditions at the MRS are not likely to cause UXO or DMM to be exposed, in the future, by naturally occurring phenomena, or intrusive activities at the MRS are not likely to cause UXO or DMM to be exposed. ◆ Historical evidence indicates that UXO or DMM are located in the subsurface of the MRS and the geological conditions at the MRS are not likely to cause UXO or DMM to be exposed, in the future, by naturally occurring phenomena, or intrusive activities at the MRS are not likely to cause UXO or DMM to be exposed.	15
Suspected (physical evidence)	◆ There is physical evidence (e.g., munitions debris such as fragments, penetrators, projectiles, shell casings, links, fins), other than the documented presence of UXO or DMM, indicating that UXO or DMM may be present at the MRS.	10
Suspected (historical evidence)	◆ There is historical evidence indicating that UXO or DMM may be present at the MRS.	5
Subsurface, physical constraint	◆ There is physical or historical evidence indicating that UXO or DMM may be present in the subsurface, but there is a physical constraint (e.g., pavement, water depth over 120 feet) preventing direct access to the UXO or DMM.	2
Small arms (regardless of location)	◆ The presence of small arms ammunition is confirmed or suspected, regardless of other factors such as geological stability. (There must be evidence that no other types of munitions [e.g., grenades] were used or are present at the MRS to place an MRS into this category.)	1
Evidence of no munitions	◆ Following investigation of the MRS, there is physical evidence that there are no UXO or DMM present, or there is historical evidence indicating that no UXO or DMM are present.	0
LOCATION OF MUNITIONS	**DIRECTIONS:** Record **the single highest score** from above in the box to the right (maximum score = 25).	**1**

DIRECTIONS: Document any MRS-specific data used in selecting the ***Location of Munitions*** classifications in the space provided.

Clay target debris is densely concentrated near the firing points. Waddings are also frequent in this vicinity. CSE Phase II Section 5.13.6 – Field Investigation Results.

Table 4

EHE Module: Ease of Access Data Element Table

DIRECTIONS: Below are four classifications of barrier types that can surround an MRS and their descriptions. The barrier type is directly related to the ease of public access to the MRS. Circle the score that corresponds with the ease of access to the MRS.

Note: The term *barrier* is defined in Appendix C of the Primer.

Classification	Description	Score
No barrier	◆ There is no barrier preventing access to any part of the MRS (i.e., all parts of the MRS are accessible).	10
Barrier to MRS access is incomplete	◆ There is a barrier preventing access to parts of the MRS, but not the entire MRS.	8
Barrier to MRS access is complete but not monitored	◆ There is a barrier preventing access to all parts of the MRS, but there is no surveillance (e.g., by a guard) to ensure that the barrier is effectively preventing access to all parts of the MRS.	5
Barrier to MRS access is complete and monitored	◆ There is a barrier preventing access to all parts of the MRS, and there is active, continual surveillance (e.g., by a guard, video monitoring) to ensure that the barrier is effectively preventing access to all parts of the MRS.	0
EASE OF ACCESS	**DIRECTIONS:** Record **the single highest score** from above in the box to the right (maximum score = 10).	**8**

DIRECTIONS: Document any MRS-specific data used in selecting the ***Ease of Access*** classification in the space provided.

Jeep Target Area Skeet Range (TS862a) is accessed through a locked gate, but the fence is not complete and may be circumvented using established dirt roads. Access to Holloman AFB requires admittance through the security gate and there is a fence around the installation. CSE Phase II Section 5.13.4

Table 5

EHE Module: Status of Property Data Element Table

DIRECTIONS: Below are three classifications of the status of a property within the Department of Defense (DoD) and their descriptions. Circle the score that corresponds with the status of property at the MRS.

Classification	Description	Score
Non-DoD control	◆ The MRS is at a location that is no longer owned by, leased to, or otherwise possessed or used by DoD. Examples are privately owned land or water bodies; land or water bodies owned or controlled by state, tribal, or local governments; and land or water bodies managed by other federal agencies. ◆ The MRS is at a location that is owned by DoD, but that DoD has leased to another entity and for which DoD does not control access 24 hours per day.	5
Scheduled for transfer from DoD control	◆ The MRS is on land or is a water body that is owned, leased, or otherwise possessed by DoD, and DoD plans to transfer that land or water body to the control of another entity (e.g., a state, tribal, or local government; a private party; another federal agency) within 3 years from the date the Protocol is applied.	3
DoD control	◆ The MRS is on land or is a water body that is owned, leased, or otherwise possessed by DoD. With respect to property that is leased or otherwise possessed, DoD must control access to the MRS 24 hours per day, every day of the calendar year.	0
STATUS OF PROPERTY	**DIRECTIONS:** Record **the single highest score** from above in the box to the right (maximum score = 5).	0

DIRECTIONS: Document any MRS-specific data used in selecting the ***Status of Property*** classification in the space provided.

Jeep Target Area Skeet Range (TS862a) is accessed through a locked gate, but the fence is not complete and may be circumvented using established dirt roads. Access to Holloman AFB requires admittance through the security gate and there is a fence around the installation. CSE Phase II Section 5.13.4

Table 6

EHE Module: Population Density Data Element Table

DIRECTIONS: Below are three classifications for population density and their descriptions. Determine the population density per square mile that most closely corresponds with the population of the MRS, including the area within a two-mile radius of the MRS's perimeter. Circle the most appropriate score.

Note: Use the U.S. Census Bureau tract data available to capture the **highest** population density within a two-mile radius of the perimeter of the MRS.

Classification	Description	Score
> 500 persons per square mile	◆ There are more than 500 persons per square mile in the U.S. Census Bureau tract in which the MRS is located.	5
100–500 persons per square mile	◆ There are 100 to 500 persons per square mile in the U.S. Census Bureau tract in which the MRS is located.	3
< 100 persons per square mile	◆ There are fewer than 100 persons per square mile in the U.S. Census Bureau tract in which the MRS is located.	1
POPULATION DENSITY	**DIRECTIONS:** Record **the single highest score** from above in the box to the right (maximum score = 5).	**1**

DIRECTIONS: Document any MRS-specific data used in selecting the ***Population Density*** classification in the space provided.

According to the 2010 US Census, the population density of Otero County is 10 persons per square mile. CSE Phase II Report Section 5.13.5

Table 7

EHE Module: Population Near Hazard Data Element Table

DIRECTIONS: Below are six classifications describing the number of inhabited structures near the MRS. The number of inhabited buildings relates to the potential population near the MRS. Determine the number of inhabited structures within two miles of the MRS boundary and circle the score that corresponds with the number of inhabited structures.

Note: The term *inhabited structures* is defined in Appendix C of the Primer.

Classification	Description	Score
26 or more inhabited structures	◆ There are 26 or more inhabited structures located up to 2 miles from the boundary of the MRS, within the boundary of the MRS, or both.	5
16 to 25 inhabited structures	◆ There are 16 to 25 inhabited structures located up to 2 miles from the boundary of the MRS, within the boundary of the MRS, or both.	4
11 to 15 inhabited structures	◆ There are 11 to 15 inhabited structures located up to 2 miles from the boundary of the MRS, within the boundary of the MRS, or both.	3
6 to 10 inhabited structures	◆ There are 6 to 10 inhabited structures located up to 2 miles from the boundary of the MRS, within the boundary of the MRS, or both.	2
1 to 5 inhabited structures	◆ There are 1 to 5 inhabited structures located up to 2 miles from the boundary of the MRS, within the boundary of the MRS, or both.	1
0 inhabited structures	◆ There are no inhabited structures located up to 2 miles from the boundary of the MRS, within the boundary of the MRS, or both.	0
POPULATION NEAR HAZARD	**DIRECTIONS:** Record **the single highest score** from above in the box to the right (maximum score = 5).	**5**

DIRECTIONS: Document any MRS-specific data used in selecting the ***Population Near Hazard*** classification in the space provided.

There are more than 26 buildings within a 2 mile radius of the MRS, including operational mission support facilities. CSE Phase II Report Section 5.13.5

Table 8

EHE Module: Types of Activities/Structures Data Element Table

DIRECTIONS: Below are five classifications of activities and/or inhabited structures and their descriptions. Review the types of activities that occur and/or structures that are present within two miles of the MRS and circle the scores that correspond with **all** the activities/structure classifications at the MRS.

Note: The term *inhabited structure* is defined in Appendix C of the Primer.

Classification	Description	Score
Residential, educational, commercial, or subsistence	◆ Activities are conducted, or inhabited structures are located up to two miles from the MRS's boundary or within the MRS's boundary, that are associated with any of the following purposes: residential, educational, child care, critical assets (e.g., hospitals, fire and rescue, police stations, dams), hotels, commercial, shopping centers, playgrounds, community gathering areas, religious sites, or sites used for subsistence hunting, fishing, and gathering.	5
Parks and recreational areas	◆ Activities are conducted, or inhabited structures are located up to two miles from the MRS's boundary or within the MRS's boundary, that are associated with parks, nature preserves, or other recreational uses.	4
Agricultural, forestry	◆ Activities are conducted, or inhabited structures are located up to two miles from the MRS's boundary or within the MRS's boundary, that are associated with agriculture or forestry.	3
Industrial or warehousing	◆ Activities are conducted, or inhabited structures are located up to two miles from the MRS's boundary or within the MRS's boundary, that are associated with industrial activities or warehousing.	2
No known or recurring activities	◆ There are no known or recurring activities occurring up to two miles from the MRS's boundary or within the MRS's boundary.	1
TYPES OF ACTIVITIES/STRUCTURES	**DIRECTIONS:** Record **the single highest score** from above in the box to the right (maximum score = 5).	**2**

DIRECTIONS: Document any MRS-specific data used in selecting the ***Types of Activities/Structures*** classifications in the space provided.

Buildings within a 2 mile radius of the MRS include operational mission support facilities. CSE Phase II Report Section 5.13.5

Table 9

EHE Module: Ecological and/or Cultural Resources Data Element Table

DIRECTIONS: Below are four classifications of ecological and/or cultural resources and their descriptions. Review the types of resources present and circle the score that corresponds with the ecological and/or cultural resources present on the MRS.

Note: The terms *ecological resources* and *cultural resources* are defined in Appendix C of the Primer.

Classification	Description	Score
Ecological and cultural resources present	◆ There are both ecological and cultural resources present on the MRS.	5
Ecological resources present	◆ There are ecological resources present on the MRS.	3
Cultural resources present	◆ There are cultural resources present on the MRS.	3
No ecological or cultural resources present	◆ There are no ecological resources or cultural resources present on the MRS.	0
ECOLOGICAL AND/OR CULTURAL RESOURCES	**DIRECTIONS:** Record **<u>the single highest score</u>** from above in the box to the right (maximum score = 5).	0

DIRECTIONS: Document any MRS-specific data used in selecting the ***Ecological and/or Cultural Resources*** classification in the space provided.

<u>No cultural or ecological resources are present at the MRS. CSE Phase II Report Section 5.13.5</u>

Table 10
Determining the EHE Module Rating

DIRECTIONS:

1. From Tables 1–9, record the data element scores in the **Score** boxes to the right.
2. Add the **Score** boxes for each of the three factors and record this number in the **Value** boxes to the right.
3. Add the three **Value** boxes and record this number in the **EHE Module Total** box below.
4. Circle the appropriate range for the **EHE Module Total** below.
5. Circle the **EHE Module Rating** that corresponds to the range selected and record this value in the **EHE Module Rating** box found at the bottom of the table.

Note:
An alternative module rating may be assigned when a module letter rating is inappropriate. An alternative module rating is used when more information is needed to score one or more data elements, contamination at an MRS was previously addressed, or there is no reason to suspect contamination was ever present at an MRS.

	Source	Score	Value
Explosive Hazard Factor Data Elements			
Munitions Type	Table 1	2	3
Source of Hazard	Table 2	1	
Accessibility Factor Data Elements			
Location of Munitions	Table 3	1	9
Ease of Access	Table 4	8	
Status of Property	Table 5	0	
Receptor Factor Data Elements			
Population Density	Table 6	1	8
Population Near Hazard	Table 7	5	
Types of Activities/Structures	Table 8	2	
Ecological and/or Cultural Resources	Table 9	0	
EHE MODULE TOTAL			20

EHE Module Total	EHE Module Rating
92 to 100	A
82 to 91	B
71 to 81	C
60 to 70	D
48 to 59	E
38 to 47	F
less than 38	G
Alternative Module Ratings	Evaluation Pending
	No Longer Required
	No Known or Suspected Explosive Hazard
EHE MODULE RATING	**G**

Table 11

CHE Module: CWM Configuration Data Element Table

DIRECTIONS: Below are seven classifications of CWM configuration and their descriptions. Circle the scores that correspond with **all** the CWM configurations known or suspected to be present at the MRS.

Note: The terms *CWM/UXO, CWM/DMM, physical evidence,* and *historical evidence* are defined in Appendix C of the Primer.

Classification	Description	Score
CWM, that are either UXO, or explosively configured damaged DMM	The CWM known or suspected of being present at the MRS are: ◆ CWM that are UXO (i.e., CWM/UXO) ◆ Explosively configured CWM that are DMM (i.e., CWM/DMM) that have been damaged.	30
CWM mixed with UXO	◆ The CWM known or suspected of being present at the MRS are undamaged CWM/DMM or CWM not configured as a munition that are commingled with conventional munitions that are UXO.	25
CWM, explosive configuration that are undamaged DMM	◆ The CWM known or suspected of being present at the MRS are explosively configured CWM/DMM that have not been damaged.	20
CWM/DMM, not explosively configured or CWM, bulk container	The CWM known or suspected of being present at the MRS are: ◆ Nonexplosively configured CWM/DMM either damaged or undamaged ◆ Bulk CWM (e.g., ton container).	15
CAIS K941 and CAIS K942	◆ The CWM/DMM known or suspected of being present at the MRS are CAIS K941-toxic gas set M-1 or CAIS K942-toxic gas set M-2/E11.	12
CAIS (chemical agent identification sets)	◆ CAIS, other than CAIS K941 and K942, are known or suspected of being present at the MRS.	10
Evidence of no CWM	◆ Following investigation, the physical evidence indicates that CWM are not present at the MRS, or the historical evidence indicates that CWM are not present at the MRS.	0
CWM CONFIGURATION	**DIRECTIONS:** Record **the single highest score** from above in the box to the right (maximum score = 30).	**0**

DIRECTIONS: Document any MRS-specific data used in selecting the ***CWM Configuration*** classifications in the space provided.

The CSE Phase II described the area and MRS as small arms use only (Skeet Range). CSE Phase II report Section 5.

Table 12

CHE Module: Sources of CWM Data Element Table

DIRECTIONS: Below are 11 sources of CWM hazards and their descriptions. Review these classifications and circle the scores that correspond with **all** the sources of CWM hazards known or suspected to be present at the MRS.

Note: The terms *CWM/UXO, CWM/DMM, CAIS/DMM, surface, subsurface, physical evidence,* and *historical evidence* are defined in Appendix C of the Primer.

Classification	Description	Score
Live-fire involving CWM	◆ The MRS is a former military range that supported live-fire of explosively configured CWM and the CWM/UXO are known or suspected of being present on the surface or in the subsurface. ◆ The MRS is a former military range that supported live-fire with conventional munitions, and CWM/DMM are on the surface or in the subsurface commingled with conventional munitions that are UXO.	10
Damaged CWM/DMM surface or subsurface	◆ There are damaged CWM/DMM on the surface or in the subsurface at the MRS.	10
Undamaged CWM/DMM surface	◆ There are undamaged CWM/DMM on the surface at the MRS.	10
CAIS/DMM surface	◆ There are CAIS/DMM on the surface.	10
Undamaged CWM/DMM, subsurface	◆ There are undamaged CWM/DMM in the subsurface at the MRS.	5
CAIS/DMM subsurface	◆ There are CAIS/DMM in the subsurface at the MRS.	5
Former CA or CWM Production Facilities	◆ The MRS is a facility that formerly engaged in production of CA or CWM, and CWM/DMM is suspected of being present on the surface or in the subsurface.	3
Former Research, Development, Testing, and Evaluation (RDT&E) facility using CWM	◆ The MRS is at a facility that formerly was involved in non-live-fire RDT&E activities (including static testing) involving CWM, and there are CWM/DMM suspected of being present on the surface or in the subsurface.	3
Former Training Facility using CWM or CAIS	◆ The MRS is a location that formerly was involved in training activities involving CWM and/or CAIS (e.g., training in recognition of CWM, decontamination training) and CWM/DMM or CAIS/DMM are suspected of being present on the surface or in the subsurface.	2
Former Storage or Transfer points of CWM	◆ The MRS is a former storage facility or transfer point (e.g., intermodal transfer) for CWM.	1
Evidence of no CWM	◆ Following investigation, the physical evidence indicates that CWM are not present at the MRS, or the historical evidence indicates that CWM are not present at the MRS.	0
SOURCES OF CWM	**DIRECTIONS:** Record **the single highest score** from above in the box to the right (maximum score = 10).	**0**

DIRECTIONS: Document any MRS-specific data used in selecting the ***Sources of CWM*** classifications in the space provided.

The CSE Phase II described the area and MRS as small arms use only (Skeet Range). CSE Phase II report Section 5.

Table 13

CHE Module: Location of CWM Data Element Table

DIRECTIONS: Below are seven classifications of CWM locations and their descriptions. Review these locations and circle the scores that correspond with **all** the locations where CWM are known or suspected of being found at the MRS.

Note: The terms *confirmed, surface, subsurface, physical evidence,* and *historical evidence* are defined in Appendix C of the Primer.

Classification	Description	Score
Confirmed surface	◆ Physical evidence indicates that there are CWM on the surface of the MRS. ◆ Historical evidence (i.e., a confirmed report such as an explosive ordnance disposal [EOD], police, or fire department report, that an incident or accident that involved CWM, regardless of configuration, occurred) indicates there are CWM on the surface of the MRS.	25
Confirmed subsurface, active	◆ Physical evidence indicates the presence of CWM in the subsurface of the MRS and the geological conditions at the MRS are likely to cause CWM to be exposed, in the future, by naturally occurring phenomena (e.g., drought, flooding, erosion, frost heave, tidal action), or intrusive activities (e.g., plowing, construction, dredging) at the MRS are likely to expose CWM. ◆ Historical evidence indicates that CWM are located in the subsurface of the MRS and the geological conditions at the MRS are likely to cause CWM to be exposed, in the future, by naturally occurring phenomena (e.g., drought, flooding, erosion, frost heave, tidal action), or intrusive activities (e.g., plowing, construction, dredging) at the MRS are likely to expose CWM.	20
Confirmed subsurface, stable	◆ Physical evidence indicates the presence of CWM in the subsurface of the MRS and the geological conditions at the MRS are not likely to cause CWM to be exposed, in the future, by naturally occurring phenomena, or intrusive activities at the MRS are not likely to cause CWM to be exposed. ◆ Historical evidence indicates that CWM are located in the subsurface of the MRS and the geological conditions at the MRS are not likely to cause CWM to be exposed, in the future, by naturally occurring phenomena, or intrusive activities at the MRS are not likely to cause CWM to be exposed.	15
Suspected (physical evidence)	◆ There is physical evidence, other than the documented presence of CWM, indicating that CWM may be present at the MRS.	10
Suspected (historical evidence)	◆ There is historical evidence indicating that CWM may be present at the MRS.	5
Subsurface, physical constraint	◆ There is physical or historical evidence indicating that CWM may be present in the subsurface, but there is a physical constraint (e.g., pavement, water depth over 120 feet) preventing direct access to the CWM.	2
Evidence of no CWM	◆ Following investigation of the MRS, there is physical evidence that there is no CWM present or there is historical evidence indicating that no CWM are present.	0
LOCATION OF CWM	**DIRECTIONS:** Record **the single highest score** from above in the box to the right (maximum score = 25).	**0**

DIRECTIONS: Document any MRS-specific data used in selecting the ***Location of CWM*** classifications in the space provided.

The CSE Phase II described the area and MRS as small arms use only (Skeet Range). CSE Phase II report Section 5.

Table 14

CHE Module: Ease of Access Data Element Table

DIRECTIONS: Below are four classifications of barrier types that can surround an MRS and their descriptions. The barrier type is directly related to the ease of public access to the MRS. Circle the score that corresponds with the ease of access to the MRS.

Note: The term *barrier* is defined in Appendix C of the Primer.

Classification	Description	Score
No barrier	◆ There is no barrier preventing access to any part of the MRS (i.e., all parts of the MRS are accessible).	10
Barrier to MRS access is incomplete	◆ There is a barrier preventing access to parts of the MRS, but not the entire MRS.	8
Barrier to MRS access is complete but not monitored	◆ There is a barrier preventing access to all parts of the MRS, but there is no surveillance (e.g., by a guard) to ensure that the barrier is effectively preventing access to all parts of the MRS.	5
Barrier to MRS access is complete and monitored	◆ There is a barrier preventing access to all parts of the MRS, and there is active continual surveillance (e.g., by a guard, video monitoring) to ensure that the barrier is effectively preventing access to all parts of the MRS.	0
EASE OF ACCESS	**DIRECTIONS:** Record **the single highest score** from above in the box to the right (maximum score = 10).	**8**

DIRECTIONS: Document any MRS-specific data used in selecting the ***Ease of Access*** classification in the space provided.

Jeep Target Area Skeet Range (TS862a) is accessed through a locked gate, but the fence is not complete and may be circumvented using established dirt roads. Access to Holloman AFB requires admittance through the security gate and there is a fence around the installation. CSE Phase II Section 5.13.4

Table 15

CHE Module: Status of Property Data Element Table

DIRECTIONS: Below are three classifications of the status of a property within the Department of Defense (DoD) and their descriptions. Circle the score that corresponds with the status of property at the MRS.

Classification	Description	Score
Non-DoD control	◆ The MRS is at a location that is no longer owned by, leased to, or otherwise possessed or used by DoD. Examples are privately owned land or water bodies; land or water bodies owned or controlled by state, tribal or local governments; and land or water bodies managed by other federal agencies. ◆ The MRS is at a location that is owned by DoD, but that DoD has leased to another entity and for which DoD does not control access 24 hours per day.	5
Scheduled for transfer from DoD control	◆ The MRS is on land or is a water body that is owned, leased, or otherwise possessed by DoD, and DoD plans to transfer that land or water body to control of another entity (e.g., a state, tribal, or local government; a private party; another federal agency) within 3 years from the date the Protocol is applied.	3
DoD control	◆ The MRS is on land or is a water body that is owned, leased, or otherwise possessed by DoD. With respect to property that is leased or otherwise possessed, DoD controls access to the MRS 24 hours per day, every day of the calendar year.	0
STATUS OF PROPERTY	**DIRECTIONS:** Record **the single highest score** from above in the box to the right (maximum score = 5).	**0**

DIRECTIONS: Document any MRS-specific data used in selecting the ***Status of Property*** classification in the space provided.

Jeep Target Area Skeet Range (TS862a) is accessed through a locked gate, but the fence is not complete and may be circumvented using established dirt roads. Access to Holloman AFB requires admittance through the security gate and there is a fence around the installation. CSE Phase II Section 5.13.4

Table 16

CHE Module: Population Density Data Element Table

DIRECTIONS: Below are three classifications for population density and their descriptions. Determine the population density per square mile that most closely corresponds with the population of the MRS, including the area within a two-mile radius of the MRS's perimeter. Circle the most appropriate score.

Note: Use the U.S. Census Bureau tract data available to capture the **highest** population density within a two-mile radius of the perimeter of the MRS.

Classification	Description	Score
> 500 persons per square mile	◆ There are more than 500 persons per square mile in the U.S. Census Bureau tract in which the MRS is located.	5
100–500 persons per square mile	◆ There are 100 to 500 persons per square mile in the U.S. Census Bureau tract in which the MRS is located.	3
< 100 persons per square mile	◆ There are fewer than 100 persons per square mile in the U.S. Census Bureau tract in which the MRS is located.	1
POPULATION DENSITY	**DIRECTIONS:** Record **the single highest score** from above in the box to the right (maximum score = 5).	**1**

DIRECTIONS: Document any MRS-specific data used in selecting the ***Population Density*** classification in the space provided.

According to the 2010 US Census, the population density of Otero County is 10 persons per square mile. CSE Phase II Report Section 5.13.5

Table 17

CHE Module: Population Near Hazard Data Element Table

DIRECTIONS: Below are six classifications describing the number of inhabited structures near the MRS. The number of inhabited buildings relates to the potential population near the MRS. Determine the number of inhabited structures within two miles of the MRS boundary and circle the score that corresponds with the number of inhabited structures.

Note: The term *inhabited structures* is defined in Appendix C of the Primer.

Classification	Description	Score
26 or more inhabited structures	◆ There are 26 or more inhabited structures located up to 2 miles from the boundary of the MRS, within the boundary of the MRS, or both.	5
16 to 25 inhabited structures	◆ There are 16 to 25 inhabited structures located up to 2 miles from the boundary of the MRS, within the boundary of the MRS, or both.	4
11 to 15 inhabited structures	◆ There are 11 to 15 inhabited structures located up to 2 miles from the boundary of the MRS, within the boundary of the MRS, or both.	3
6 to 10 inhabited structures	◆ There are 6 to 10 inhabited structures located up to 2 miles from the boundary of the MRS, within the boundary of the MRS, or both.	2
1 to 5 inhabited structures	◆ There are 1 to 5 inhabited structures located up to 2 miles from the boundary of the MRS, within the boundary of the MRS, or both.	1
0 inhabited structures	◆ There are no inhabited structures located up to 2 miles from the boundary of the MRS, within the boundary of the MRS, or both.	0
POPULATION NEAR HAZARD	**DIRECTIONS:** Record **the single highest score** from above in the box to the right (maximum score = 5).	**5**

DIRECTIONS: Document any MRS-specific data used in selecting the ***Population Near Hazard*** classification in the space provided.

There are more than 26 buildings within a 2 mile radius of the MRS, including operational mission support facilities. CSE Phase II Report Section 5.13.5

Table 18

CHE Module: Types of Activities/Structures Data Element Table

DIRECTIONS: Below are five classifications of activities and/or inhabited structures and their descriptions. Review the types of activities that occur and/or structures that are present within two miles of the MRS and circle the scores that correspond with **all** the activities/structures classifications at the MRS.

Note: The term *inhabited structures* is defined in Appendix C of the Primer.

Classification	Description	Score
Residential, educational, commercial, or subsistence	◆ Activities are conducted, or inhabited structures are located up to two miles from the MRS's boundary or within the MRS's boundary, that are associated with any of the following purposes: residential, educational, child care, critical assets (e.g., hospitals, fire and rescue, police stations, dams), hotels, commercial, shopping centers, playgrounds, community gathering areas, religious sites, or sites used for subsistence hunting, fishing, and gathering.	5
Parks and recreational areas	◆ Activities are conducted, or inhabited structures are located up to two miles from the MRS's boundary or within the MRS's boundary, that are associated with parks, nature preserves, or other recreational uses.	4
Agricultural, forestry	◆ Activities are conducted, or inhabited structures are located up to two miles from the MRS's boundary or within the MRS's boundary, that are associated with agriculture or forestry.	3
Industrial or warehousing	◆ Activities are conducted, or inhabited structures are located up to two miles from the MRS's boundary or within the MRS's boundary, that are associated with industrial activities or warehousing.	2
No known or recurring activities	◆ There are no known of recurring activities occurring up to two miles from the MRS's boundary or within the MRS's boundary.	1
TYPES OF ACTIVITIES/STRUCTURES	**DIRECTIONS:** Record **the single highest score** from above in the box to the right (maximum score = 5).	**2**

DIRECTIONS: Document any MRS-specific data used in selecting the ***Types of Activities/Structures*** classifications in the space provided.

Buildings within a 2 mile radius of the MRS include operational mission support facilities. CSE Phase II Report Section 5.13.5

Table 19

CHE Module: Ecological and/or Cultural Resources Data Element Table

DIRECTIONS: Below are four classifications of ecological and/or cultural resources and their descriptions. Review the types of resources present and circle the score that corresponds with the ecological and/or cultural resources present on the MRS.

Note: The terms *ecological resources* and *cultural resources* are defined in Appendix C of the Primer.

Classification	Description	Score
Ecological and cultural resources present	◆ There are both ecological and cultural resources present on the MRS.	5
Ecological resources present	◆ There are ecological resources present on the MRS.	3
Cultural resources present	◆ There are cultural resources present on the MRS.	3
No ecological or cultural resources present	◆ There are no ecological resources or cultural resources present on the MRS.	0
ECOLOGICAL AND/OR CULTURAL RESOURCES	**DIRECTIONS:** Record **the single highest score** from above in the box to the right (maximum score = 5).	**0**

DIRECTIONS: Document any MRS-specific data used in selecting the ***Ecological and/or Cultural Resources*** classification in the space provided.

No cultural or ecological resources are present at the MRS. CSE Phase II Report Section 5.13.5

Table 20
Determining the CHE Module Rating

DIRECTIONS:

1. From Tables 11–19, record the data element scores in the **Score** boxes to the right.
2. Add the **Score** boxes for each of the three factors and record this number in the **Value** boxes to the right.
3. Add the three **Value** boxes and record this number in the **CHE Module Total** box below.
4. Circle the appropriate range for the **CHE Module Total** below.
5. Circle the **CHE Module Rating** that corresponds to the range selected and record this value in the **CHE Module Rating** box found at the bottom of the table.

Note:
An alternative module rating may be assigned when a module letter rating is inappropriate. An alternative module rating is used when more information is needed to score one or more data elements, contamination at an MRS was previously addressed, or there is no reason to suspect contamination was ever present at an MRS.

	Source	Score	Value
CWM Hazard Factor Data Elements			
CWM Configuration	Table 11	0	0
Sources of CWM	Table 12	0	
Accessibility Factor Data Elements			
Location of CWM	Table 13	0	8
Ease of Access	Table 14	8	
Status of Property	Table 15	0	
Receptor Factor Data Elements			
Population Density	Table 16	1	8
Population Near Hazard	Table 17	5	
Types of Activities/Structures	Table 18	2	
Ecological and/or Cultural Resources	Table 19	0	
CHE MODULE TOTAL			16

CHE Module Total	CHE Module Rating
92 to 100	A
82 to 91	B
71 to 81	C
60 to 70	D
48 to 59	E
38 to 47	F
less than 38	G
Alternative Module Ratings	Evaluation Pending
	No Longer Required
	No Known or Suspected CWM Hazard
CHE MODULE RATING	**No Known or Suspected CWM Hazard**

Table 21

HHE Module: Groundwater Data Element Table

Contaminant Hazard Factor (CHF)

DIRECTIONS: Record the **maximum concentrations** of all contaminants in the MRS's groundwater and their **comparison values** (from Appendix B of the Primer) in the table below. Additional contaminants can be recorded on Table 27. Calculate and record the **ratios** for each contaminant by dividing the **maximum concentration** by the **comparison value**. Determine the **CHF** by adding the contaminant **ratios** together, including any additional groundwater contaminants recorded on Table 27. Based on the **CHF**, use the **CHF Scale** to determine and record the **CHF Value**. If there is no known or suspected MC hazard present in the groundwater, select the box at the bottom of the table.

Contaminant	Maximum Concentration (μg/L)	Comparison Value (μg/L)	Ratios
CHF Scale	**CHF Value**	**Sum The Ratios**	**NA**
CHF > 100	**H (High)**	$CHF = \sum \frac{\text{[Maximum Concentration of Contaminant]}}{\text{[Comparison Value for Contaminant]}}$	
100 > CHF > 2	**M (Medium)**		
2 > CHF	**L (Low)**		
CONTAMINANT HAZARD FACTOR	**DIRECTIONS:** Record **the CHF Value** from above in the box to the right (maximum value = H).		**NA**

Migratory Pathway Factor

DIRECTIONS: Circle the value that corresponds most closely to the groundwater migratory pathway at the MRS.

Classification	Description	Value
Evident	Analytical data or observable evidence indicates that contamination in the groundwater is present at, moving toward, or has moved to a point of exposure.	H
Potential	Contamination in groundwater has moved only slightly beyond the source (i.e., tens of feet), could move but is not moving appreciably, or information is not sufficient to make a determination of Evident or Confined.	M
Confined	Information indicates a low potential for contaminant migration from the source via the groundwater to a potential point of exposure (possibly due to the presence of geological structures or physical controls).	L
MIGRATORY PATHWAY FACTOR	**DIRECTIONS:** Record **the single highest value** from above in the box to the right (maximum value = H).	**NA**

Receptor Factor

DIRECTIONS: Circle the value that corresponds most closely to the groundwater receptors at the MRS.

Classification	Description	Value
Identified	There is a threatened water supply well downgradient of the source and the groundwater is a current source of drinking water or source of water for other beneficial uses such as irrigation/agriculture (equivalent to Class I or IIA aquifer).	H
Potential	There is no threatened water supply well downgradient of the source and the groundwater is currently or potentially usable for drinking water, irrigation, or agriculture (equivalent to Class I, IIA, or IIB aquifer).	M
Limited	There is no potentially threatened water supply well downgradient of the source and the groundwater is not considered a potential source of drinking water and is of limited beneficial use (equivalent to Class IIIA or IIIB aquifer, or where perched aquifer exists only).	L
RECEPTOR FACTOR	**DIRECTIONS:** Record **the single highest value** from above in the box to the right (maximum value = H).	**NA**

No Known or Suspected Groundwater MC Hazard ✓

Table 22

HHE Module: Surface Water – Human Endpoint Data Element Table

Contaminant Hazard Factor (CHF)

DIRECTIONS: Record the **maximum concentrations** of all contaminants in the MRS's surface water and their **comparison values** (from Appendix B of the Primer) in the table below. Additional contaminants can be recorded on Table 27. Calculate and record the **ratios** for each contaminant by dividing the **maximum concentration** by the **comparison value**. Determine the **CHF** by adding the contaminant **ratios** together, including any additional surface water contaminants recorded on Table 27. Based on the **CHF**, use the **CHF Scale** to determine and record the **CHF Value**. If there is no known or suspected MC hazard with human endpoints present in the surface water, select the box at the bottom of the table.

Contaminant	Maximum Concentration (μg/L)	Comparison Value (μg/L)	Ratios
CHF Scale	**CHF Value**	**Sum The Ratios**	**NA**
CHF > 100	**H (High)**	$CHF = \sum \frac{\text{[Maximum Concentration of Contaminant]}}{\text{[Comparison Value for Contaminant]}}$	
100 > CHF > 2	**M (Medium)**		
2 > CHF	**L (Low)**		
CONTAMINANT HAZARD FACTOR	**DIRECTIONS:** Record **the CHF Value** from above in the box to the right (maximum value = H).		**NA**

Migratory Pathway Factor

DIRECTIONS: Circle the value that corresponds most closely to the surface water migratory pathway at the MRS.

Classification	Description	Value
Evident	Analytical data or observable evidence indicates that contamination in the surface water is present at, moving toward, or has moved to a point of exposure.	H
Potential	Contamination in surface water has moved only slightly beyond the source (i.e., tens of feet), could move but is not moving appreciably, or information is not sufficient to make a determination of Evident or Confined.	M
Confined	Information indicates a low potential for contaminant migration from the source via the surface water to a potential point of exposure (possibly due to the presence of geological structures or physical controls).	L
MIGRATORY PATHWAY FACTOR	**DIRECTIONS:** Record **the single highest value** from above in the box to the right (maximum value = H).	**NA**

Receptor Factor

DIRECTIONS: Circle the value that corresponds most closely to the surface water receptors at the MRS.

Classification	Description	Value
Identified	Identified receptors have access to surface water to which contamination has moved or can move.	H
Potential	Potential for receptors to have access to surface water to which contamination has moved or can move.	M
Limited	Little or no potential for receptors to have access to surface water to which contamination has moved or can move.	L
RECEPTOR FACTOR	**DIRECTIONS:** Record **the single highest value** from above in the box to the right (maximum value = H).	**NA**

No Known or Suspected Surface Water (Human Endpoint) MC Hazard ✓

Table 23

HHE Module: Sediment – Human Endpoint Data Element Table

Contaminant Hazard Factor (CHF)

DIRECTIONS: Record the **maximum concentrations** of all contaminants in the MRS's sediment and their **comparison values** (from Appendix B of the Primer) in the table below. Additional contaminants can be recorded on Table 27. Calculate and record the **ratios** for each contaminant by dividing the **maximum concentration** by the **comparison value**. Determine the **CHF** by adding the contaminant **ratios** together, including any additional sediment contaminants recorded on Table 27. Based on the **CHF**, use the **CHF Scale** to determine and record the **CHF Value**. If there is no known or suspected MC hazard with human endpoints present in the sediment, select the box at the bottom of the table.

Contaminant	Maximum Concentration (mg/kg)	Comparison Value (mg/kg)	Ratios
CHF Scale	**CHF Value**	**Sum The Ratios**	**NA**
CHF > 100	**H (High)**	$CHF = \sum \frac{\text{[Maximum Concentration of Contaminant]}}{\text{[Comparison Value for Contaminant]}}$	
100 > CHF > 2	**M (Medium)**		
2 > CHF	**L (Low)**		
CONTAMINANT HAZARD FACTOR	**DIRECTIONS:** Record **the CHF Value** from above in the box to the right maximum value = H).		**NA**

Migratory Pathway Factor

DIRECTIONS: Circle the value that corresponds most closely to the sediment migratory pathway at the MRS.

Classification	Description	Value
Evident	Analytical data or observable evidence indicates that contamination in the sediment is present at, moving toward, or has moved to a point of exposure.	H
Potential	Contamination in sediment has moved only slightly beyond the source (i.e., tens of feet), could move but is not moving appreciably, or information is not sufficient to make a determination of Evident or Confined.	M
Confined	Information indicates a low potential for contaminant migration from the source via the sediment to a potential point of exposure (possibly due to the presence of geological structures or physical controls).	L
MIGRATORY PATHWAY FACTOR	**DIRECTIONS:** Record **the single highest value** from above in the box to the right (maximum value = H).	**NA**

Receptor Factor

DIRECTIONS: Circle the value that corresponds most closely to the sediment receptors at the MRS.

Classification	Description	Value
Identified	Identified receptors have access to sediment to which contamination has moved or can move.	H
Potential	Potential for receptors to have access to sediment to which contamination has moved or can move.	M
Limited	Little or no potential for receptors to have access to sediment to which contamination has moved or can move.	L
RECEPTOR FACTOR	**DIRECTIONS:** Record **the single highest value** from above in the box to the right (maximum value = H).	**NA**

No Known or Suspected Sediment (Human Endpoint) MC Hazard ✓

Table 24

HHE Module: Surface Water – Ecological Endpoint Data Element Table

Contaminant Hazard Factor (CHF)

DIRECTIONS: Record the **maximum concentrations** of all contaminants in the MRS's surface water and their **comparison values** (from Appendix B of the Primer) in the table below. Additional contaminants can be recorded on Table 27. Calculate and record the **ratios** for each contaminant by dividing the **maximum concentration** by the **comparison value**. Determine the **CHF** by adding the contaminant **ratios** together, including any additional surface water contaminants recorded on Table 27. Based on the **CHF**, use the **CHF Scale** to determine and record the **CHF Value**. If there is no known or suspected MC hazard with ecological endpoints present in the surface water, select the box at the bottom of the table.

Contaminant	Maximum Concentration (μg/L)	Comparison Value (μg/L)	Ratios
CHF Scale	**CHF Value**	**Sum the Ratios**	**NA**
CHF > 100	**H (High)**	$CHF = \sum \frac{\text{[Maximum Concentration of Contaminant]}}{\text{[Comparison Value for Contaminant]}}$	
100 > CHF > 2	**M (Medium)**		
2 > CHF	**L (Low)**		
CONTAMINANT HAZARD FACTOR	**DIRECTIONS:** Record **the CHF Value** from above in the box to the right (maximum value = H).		**NA**

Migratory Pathway Factor

DIRECTIONS: Circle the value that corresponds most closely to the surface water migratory pathway at the MRS.

Classification	Description	Value
Evident	Analytical data or observable evidence indicates that contamination in the surface water is present at, moving toward, or has moved to a point of exposure.	H
Potential	Contamination in surface water has moved only slightly beyond the source (i.e., tens of feet), could move but is not moving appreciably, or information is not sufficient to make a determination of Evident or Confined.	M
Confined	Information indicates a low potential for contaminant migration from the source via the surface water to a potential point of exposure (possibly due to the presence of geological structures or physical controls).	L
MIGRATORY PATHWAY FACTOR	**DIRECTIONS:** Record **the single highest value** from above in the box to the right (maximum value = H).	**NA**

Receptor Factor

DIRECTIONS: Circle the value that corresponds most closely to the surface water receptors at the MRS.

Classification	Description	Value
Identified	Identified receptors have access to surface water to which contamination has moved or can move.	H
Potential	Potential for receptors to have access to surface water to which contamination has moved or can move.	M
Limited	Little or no potential for receptors to have access to surface water to which contamination has moved or can move.	L
RECEPTOR FACTOR	**DIRECTIONS:** Record **the single highest value** from above in the box to the right (maximum value = H).	**NA**

No Known or Suspected Surface Water (Ecological Endpoint) MC Hazard ✓

Table 25

HHE Module: Sediment – Ecological Endpoint Data Element Table

Contaminant Hazard Factor (CHF)

DIRECTIONS: Record the **maximum concentrations** of all contaminants in the MRS's sediment and their **comparison values** (from Appendix B of the Primer) in the table below. Additional contaminants can be recorded on Table 27. Calculate and record the **ratios** for each contaminant by dividing the **maximum concentration** by the **comparison value**. Determine the **CHF** by adding the contaminant **ratios** together, including any additional sediment contaminants recorded on Table 27. Based on the **CHF**, use the **CHF Scale** to determine and record the **CHF Value**. If there is no known or suspected MC hazard with ecological endpoints present in the sediment, select the box at the bottom of the table.

.

Contaminant	Maximum Concentration (mg/kg)	Comparison Value (mg/kg)	Ratios
CHF Scale	**CHF Value**	**Sum the Ratios**	**NA**
CHF > 100	**H (High)**	$CHF = \sum \frac{\text{[Maximum Concentration of Contaminant]}}{\text{[Comparison Value for Contaminant]}}$	
100 > CHF > 2	**M (Medium)**		
2 > CHF	**L (Low)**		
CONTAMINANT HAZARD FACTOR	**DIRECTIONS:** Record **the CHF Value** from above in the box to the right (maximum value = H).		**NA**

Migratory Pathway Factor

DIRECTIONS: Circle the value that corresponds most closely to the sediment migratory pathway at the MRS.

Classification	Description	Value
Evident	Analytical data or observable evidence indicates that contamination in the sediment is present at, moving toward, or has moved to a point of exposure.	H
Potential	Contamination in sediment has moved only slightly beyond the source (i.e., tens of feet), could move but is not moving appreciably, or information is not sufficient to make a determination of Evident or Confined.	M
Confined	Information indicates a low potential for contaminant migration from the source via the sediment to a potential point of exposure (possibly due to the presence of geological structures or physical controls).	L
MIGRATORY PATHWAY FACTOR	**DIRECTIONS:** Record **the single highest value** from above in the box to the right (maximum value = H).	**NA**

Receptor Factor

DIRECTIONS: Circle the value that corresponds most closely to the sediment receptors at the MRS.

Classification	Description	Value
Identified	Identified receptors have access to sediment to which contamination has moved or can move.	H
Potential	Potential for receptors to have access to sediment to which contamination has moved or can move.	M
Limited	Little or no potential for receptors to have access to sediment to which contamination has moved or can move.	L
RECEPTOR FACTOR	**DIRECTIONS:** Record **the single highest value** from above in the box to the right (maximum value = H).	**NA**

No Known or Suspected Sediment (Ecological Endpoint) MC Hazard ✓

Table 26

HHE Module: Surface Soil Data Element Table

Contaminant Hazard Factor (CHF)

DIRECTIONS: Record the **maximum concentrations** of all contaminants in the MRS's surface soil and their **comparison values** (from Appendix B of the Primer) in the table below. Additional contaminants can be recorded on Table 27. Calculate and record the **ratios** for each contaminant by dividing the **maximum concentration** by the **comparison value**. Determine the **CHF** by adding the contaminant **ratios** together, including any additional surface soil contaminants recorded on Table 27. Based on the **CHF**, use the **CHF Scale** to determine and record the **CHF Value**. If there is no known or suspected MC hazard present in the surface soil, select the box at the bottom of the table.

.

Contaminant	Maximum Concentration (mg/kg)	Comparison Value (mg/kg)	Ratio
Pyrene	290	2300	0.13
Napthalene	2.9	56	0.05
Fluorene	0.65	2700	0.0002
Fluoranthene	330	2300	0.14
Anthracene	20	22000	0.0009
CHF Scale	**CHF Value**	**Sum the Ratios**	36.63
CHF > 100	**H (High)**	$CHF = \sum \frac{\text{[Maximum Concentration of Contaminant]}}{\text{[Comparison Value for Contaminant]}}$	
100 > CHF > 2	**M (Medium)**		
2 > CHF	**L (Low)**		
CONTAMINANT HAZARD FACTOR	**DIRECTIONS:** Record **the CHF Value** from above in the box to the right (maximum value = H).		**M**

Migratory Pathway Factor

DIRECTIONS: Circle the value that corresponds most closely to the surface soil migratory pathway at the MRS.

Classification	Description	Value
Evident	Analytical data or observable evidence indicates that contamination in the surface soil is present at, moving toward, or has moved to a point of exposure.	H
Potential	Contamination in surface soil has moved only slightly beyond the source (i.e., tens of feet), could move but is not moving appreciably, or information is not sufficient to make a determination of Evident or Confined.	M
Confined	Information indicates a low potential for contaminant migration from the source via the surface soil to a potential point of exposure (possibly due to the presence of geological structures or physical controls).	L
MIGRATORY PATHWAY FACTOR	**DIRECTIONS:** Record **the single highest value** from above in the box to the right (maximum value = H).	**M**

Receptor Factor

DIRECTIONS: Circle the value that corresponds most closely to the surface soil receptors at the MRS.

Classification	Description	Value
Identified	Identified receptors have access to surface soil to which contamination has moved or can move.	H
Potential	Potential for receptors to have access to surface soil to which contamination has moved or can move.	M
Limited	Little or no potential for receptors to have access to surface soil to which contamination has moved or can move.	L
RECEPTOR FACTOR	**DIRECTIONS:** Record **the single highest value** from above in the box to the right (maximum value = H).	**M**

No Known or Suspected Surface Soil MC Hazard

Table 27

HHE Module: Supplemental Contaminant Hazard Factor Table

Contaminant Hazard Factor (CHF)

DIRECTIONS: Only use this table if there are more than five contaminants in any given medium present at the MRS. This is a supplemental table designed to hold information about contaminants that do not fit in the previous tables. Indicate the **media** in which these contaminants are present. Then record all **contaminants**, their **maximum concentrations** and their **comparison values** (from Appendix B of the Primer) in the table below. Calculate and record the **ratio** for each contaminant by dividing the **maximum concentration** by the **comparison value**. Determine the **CHF** for each medium on the appropriate media-specific tables.

Note: Do not add ratios from different media.

Media	Contaminant	Maximum Concentration (mg/kg)	Comparison Value	Ratio
Soil	Acenapthene	2.5	3700	0.0008
Soil	2-Methylnapthalene	0.61	310	0.002
Soil	Lead	101	400	0.25
Soil	Indeno(1,2,3-cd)pyrene	100	62	1.77
Soil	Chrysene	170	6200	0.03
Soil	Benzo(k)fluoranthene	130	620	0.21
Soil	Benzo(b)fluoranthene	190	62	3.55
Soil	Benzo(a)pyrene	160	6.2	27.4
Soil	Benzo(a)anthracene	180	62	2.9
Soil	Antimony	1.9	31	0.06
Soil	Arsenic	2.3	22	0.1
Soil	Copper	4.6	3100	0.001
Soil	Zinc	18	23000	0.0008

Table 28

Determining the HHE Module Rating

DIRECTIONS:

1. Record the letter values (H, M, L) for the **Contaminant Hazard**, **Migration Pathway**, and **Receptor Factors** for the media (from Tables 21–26) in the corresponding boxes below.
2. Record the media's three-letter combinations in the **Three-Letter Combination** boxes below (three-letter combinations are arranged from Hs to Ms to Ls).
3. Using the **HHE Ratings** provided below, determine each media's rating (A–G) and record the letter in the corresponding **Media Rating** box below.

Media (Source)	Contaminant Hazard Factor Value	Migratory Pathway Factor Value	Receptor Factor Value	Three-Letter Combination (Hs-Ms-Ls)	Media Rating (A-G)
Groundwater (Table 21)	NA	NA	NA	NA	NA
Surface Water/Human Endpoint (Table 22)	NA	NA	NA	NA	NA
Sediment/Human Endpoint (Table 23)	NA	NA	NA	NA	NA
Surface Water/Ecological Endpoint (Table 24)	NA	NA	NA	NA	NA
Sediment/Ecological Endpoint (Table 25)	NA	NA	NA	NA	NA
Surface Soil (Table 26)	M	M	LM	MMM	D

DIRECTIONS (cont.):

4. Select the single highest Media Rating (A is highest; G is lowest) and enter the letter in the **HHE Module Rating** box.

Note:

An alternative module rating may be assigned when a module letter rating is inappropriate. An alternative module rating is used when more information is needed to score one or more media, contamination at an MRS was previously addressed, or there is no reason to suspect contamination was ever present at an MRS.

HHE MODULE RATING	**D**

HHE Ratings (for reference only)

Combination	Rating
HHH	A
HHM	B
HHL	C
HMM	C
HML	D
MMM	D
HLL	E
MML	E
MLL	F
LLL	G
Alternative Module Ratings	Evaluation Pending
	No Longer Required
	No Known or Suspected MC Hazard

Table 29
MRS Priority

DIRECTIONS: In the chart below, circle the letter **rating** for each module recorded in Table 10 (EHE), Table 20 (CHE), and Table 28 (HHE). Circle the corresponding numerical **priority** for each module. If information to determine the module rating is not available, choose the appropriate alternative module rating. The MRS Priority is the single highest priority; record this relative priority in the **MRS Priority or Alternative MRS Rating** at the bottom of the table.

Note: An MRS assigned Priority 1 has the highest relative priority; an MRS assigned Priority 8 has the lowest relative priority. Only an MRS with CWM known or suspected to be present can be assigned Priority 1; an MRS that has CWM known or suspected to be present cannot be assigned Priority 8.

EHE Rating	Priority	CHE Rating	Priority	HHE Rating	Priority
		A	1		
A	2	B	2	A	2
B	3	C	3	B	3
C	4	D	4	C	4
D	5	E	5	D	5
E	6	F	6	E	6
F	7	G	7	F	7
G	8			G	8
Evaluation Pending		Evaluation Pending		Evaluation Pending	
No Longer Required		No Longer Required		No Longer Required	
No Known or Suspected Explosive Hazard		No Known or Suspected CWM Hazard		No Known or Suspected MC Hazard	
MRS PRIORITY or ALTERNATIVE MRS RATING				**5**	