12065 Lebanon Rd
Mt. Juliet, TN 37122
(615) 758-5858
(800) 767-5859
Fax (615) 758-5859
Tax I.D 62-0814289
Est. 1970

Quality Control Summary
SDG: L735181

For: URS Corporation - Tucson AZ - 1088308
Holloman AFB

L735181

Lab SampleID.	Client ID
L735181-01	H-TU508-TRIPBLANK-TT01
L735181-02	H-TU508-MW06-NT01
L735181-03	H-TU508-MW06-ND01
L735181-04	H-TU508-MW05-ND01
L735181-05	H-TU508-MW05-NT01
L735181-06	H-TU508-MW04-ND01
L735181-07	H-TU508-MW04-NT01
L735181-08	H-TU508-MW07-NT01
L735181-09	H-TU508-MW07-ND01
L735181-10	H-TU508-MW07-NT01

12065 Lebanon Rd
Mt. Juliet, TN 37122
(615) 758-5858
(800) 767-5859
Fax (615) 758-5859
Tax I.D 62-0814289
Est. 1970

Quality Control Summary
SDG: L735181

For: URS Corporation - Tucson AZ - 1088308
Project: Holloman AFB
December 30, 2015

Sample Receiving and Handling

All sample aliquots were received at the correct temperature, in the proper containers, and with the appropriate preservatives. All method specified holding times were met.

Mercury by Method 7470A

Laboratory Control Sample

Samples L735181-03, -04, and -06 were analyzed in analytical batch WG755986. The laboratory control sample associated with these samples was within the laboratory control limits for all target analytes reported from this batch.

Samples L735181-02, -05, and -07 were analyzed in analytical batch WG756120. The laboratory control sample associated with these samples was within the laboratory control limits for all target analytes reported from this batch.

Sample L735181-09 was analyzed in analytical batch WG756318. The laboratory control sample associated with this sample was within the laboratory control limits for all target analytes reported from this batch.

Sample L735181-08 was analyzed in analytical batch WG756562. The laboratory control sample associated with this sample was within the laboratory control limits for all target analytes reported from this batch.

Matrix Spike/Matrix Spike Duplicate

For analytical batch WG755986 matrix spike/matrix spike duplicate analysis was performed on sample L735181-06. The matrix spike recoveries and relative percent differences were within laboratory control limits for all target analytes reported from this batch.

For analytical batch WG756120 matrix spike/matrix spike duplicate analysis was performed on sample L734983-01. The matrix spike recoveries and relative percent differences were within laboratory control limits for all target analytes reported from this batch.

For analytical batch WG756318 matrix spike/matrix spike duplicate analysis was performed on sample L735015-02. The matrix spike recoveries and relative percent differences were within laboratory control limits for all target analytes reported from this batch.

For analytical batch WG756562 matrix spike/matrix spike duplicate analysis was performed on sample L735338-10. The matrix spike recoveries and relative percent differences were within laboratory control limits for all target analytes reported from this batch.

Blank Analysis

The method blank, the initial, and all continuing calibration blanks contained no analytes at concentrations above the method reporting limit.

Calibration Summary

Instrument CVAA3 was calibrated on 11/24/2014. The initial calibration and continuing calibration verification standards were within method limits.

Instrument CVAA3 was calibrated on 11/22/2014. The initial calibration and continuing calibration verification standards were within method limits.

Instrument CVAA3 was calibrated on 11/25/2014. The initial calibration and continuing calibration verification standards

12065 Lebanon Rd
Mt. Juliet, TN 37122
(615) 758-5858
(800) 767-5859
Fax (615) 758-5859
Tax I.D 62-0814289
Est. 1970

Quality Control Summary
SDG: L735181
For: URS Corporation - Tucson AZ - 1088308
Project: Holloman AFB
December 30, 2015

were within method limits.

Instrument CVAA4 was calibrated on 11/25/2014. The initial calibration and continuing calibration verification standards were within method limits.

Trace Metals by Method 6010B

Laboratory Control Sample

Samples L735181-03, -04, -06, and -09 were analyzed in analytical batch WG756740. The laboratory control sample associated with these samples was within the laboratory control limits for all target analytes reported from this batch. The relative percent difference was within laboratory limits for all target analytes reported from this batch.

Samples L735181-02, -05, -07, and -08 were analyzed in analytical batch WG756747. The laboratory control sample associated with these samples was within the laboratory control limits for all target analytes reported from this batch. The relative percent difference was within laboratory limits for all target analytes reported from this batch.

Matrix Spike/Matrix Spike Duplicate

For analytical batch WG756740 matrix spike/matrix spike duplicate analysis was performed on sample L735318-09. The matrix spike recoveries were within laboratory control limits for all target analytes reported from this batch. The relative percent difference exceeded laboratory limits for Aluminum,Dissolved.

For analytical batch WG756747 matrix spike/matrix spike duplicate analysis was performed on sample L734231-16. The matrix spike recoveries were above laboratory control limits for Aluminum. The matrix spike recoveries were below laboratory control limits for Aluminum. The spike recoveries were within limits for the remaining target compounds reported from this batch. The relative percent difference was within laboratory limits for all target analytes reported from this batch. Aluminum did not meet the method limit criteria for the post digest spike.

Blank Analysis

The method blank, the initial, and all continuing calibration blanks contained no analytes at concentrations above the method reporting limit.

Calibration Summary

Instrument ICP12 was calibrated on 11/26/2014. The initial calibration and continuing calibration verification standards were within method limits.

Instrument ICP12 was calibrated on 11/28/2014. The initial calibration and continuing calibration verification standards were within method limits.

Trace Metals by Method 6020

Laboratory Control Sample

Samples L735181-03, -04, -06, and -09 were analyzed in analytical batch WG756357. The laboratory control sample associated with these samples was within the laboratory control limits for all target analytes reported from this batch. The relative percent difference was within laboratory limits for all target analytes reported from this batch.

Samples L735181-02, -05, -07, and -08 were analyzed in analytical batch WG756921. The laboratory control sample associated with these samples was within the laboratory control limits for all target analytes reported from this batch. The relative percent difference was within laboratory limits for all target analytes reported from this batch.

12065 Lebanon Rd
Mt. Juliet, TN 37122
(615) 758-5858
(800) 767-5859
Fax (615) 758-5859
Tax I.D 62-0814289
Est. 1970

Quality Control Summary
SDG: L735181
For: URS Corporation - Tucson AZ - 1088308
Project: Holloman AFB
December 30, 2015

Samples L735181-02, -05, -07, and -08 were analyzed in analytical batch WG757513. The laboratory control sample associated with these samples was within the laboratory control limits for all target analytes reported from this batch. The relative percent difference was within laboratory limits for all target analytes reported from this batch.

Matrix Spike/Matrix Spike Duplicate
For analytical batch WG756357 matrix spike/matrix spike duplicate analysis was performed on sample L734231-15. The matrix spike recoveries and relative percent differences were within laboratory control limits for all target analytes reported from this batch.

For analytical batch WG756921 matrix spike/matrix spike duplicate analysis was performed on sample L734231-16. The matrix spike recoveries and relative percent differences were within laboratory control limits for all target analytes reported from this batch.

For analytical batch WG757513 matrix spike/matrix spike duplicate analysis was performed on sample L735181-05. The matrix spike recoveries and relative percent differences were within laboratory control limits for all target analytes reported from this batch.

Blank Analysis
The method blank, the initial, and all continuing calibration blanks contained no analytes at concentrations above the method reporting limit.

Calibration Summary
Instrument ICPMS8 was calibrated on 11/28/2014. The initial calibration and continuing calibration verification standards were within method limits.

Instrument ICPMS8 was calibrated on 12/1/2014. The initial calibration and continuing calibration verification standards were within method limits.

Instrument ICPMS8 was calibrated on 12/2/2014. The initial calibration and continuing calibration verification standards were within method limits.

Volatile TPH by Method 8015D/GRO
Laboratory Control Sample
Samples L735181-01, -02, -05, -07, and -10 were analyzed in analytical batch WG756338. The laboratory control sample associated with these samples was within the laboratory control limits for all target analytes reported from this batch. The relative percent difference was within laboratory limits for all target analytes reported from this batch.

Matrix Spike/Matrix Spike Duplicate
For analytical batch WG756338 matrix spike/matrix spike duplicate analysis was performed on sample L735268-01. The matrix spike recoveries and relative percent differences were within laboratory control limits for all target analytes reported from this batch.

Blank Analysis
The method blank, the initial, and all continuing calibration blanks contained no analytes at concentrations above the method reporting limit.

12065 Lebanon Rd
Mt. Juliet, TN 37122
(615) 758-5858
(800) 767-5859
Fax (615) 758-5859
Tax I.D 62-0814289
Est. 1970

Quality Control Summary
SDG: L735181

For: URS Corporation - Tucson AZ - 1088308
Project: Holloman AFB
December 30, 2015

Calibration Summary
Instrument VOCGC7 was calibrated on 9/9/2014. The initial calibration and continuing calibration verification standards were within method limits.

Surrogate Summary
The surrogate recoveries were within method limits for all samples.

Internal Standards
The internal standard responses and retention times were within method limits for all samples and quality control samples.

Volatile Organic Compounds by Method 8260B
Laboratory Control Sample
Samples L735181-01, -02, -05, -07, and -10 were analyzed in analytical batch WG756584. The laboratory control sample associated with these samples was within the laboratory control limits for all target analytes reported from this batch. The relative percent difference was within laboratory limits for all target analytes reported from this batch.

Sample L735181-02 was analyzed in analytical batch WG757170. The laboratory control sample associated with this sample was within the laboratory control limits for all target analytes reported from this batch. The relative percent difference was within laboratory limits for all target analytes reported from this batch.

Matrix Spike/Matrix Spike Duplicate
For analytical batch WG756584 matrix spike/matrix spike duplicate analysis was performed on sample L734231-14. The matrix spike recoveries and relative percent differences were within laboratory control limits for all target analytes reported from this batch.

For analytical batch WG757170 matrix spike/matrix spike duplicate analysis was performed on sample L735524-01. The matrix spike recoveries and relative percent differences were within laboratory control limits for all target analytes reported from this batch.

Blank Analysis
The method blank, the initial, and all continuing calibration blanks contained no analytes at concentrations above the method reporting limit.

Calibration Summary
Instrument VOCMS20 was calibrated on 11/23/2014. The initial calibration and continuing calibration verification standards were within method limits.

Instrument VOCMS7 was calibrated on 11/24/2014. The initial calibration and continuing calibration verification standards were within method limits.

Surrogate Summary
The surrogate recoveries were within method limits for all samples.

Internal Standards
The internal standard responses and retention times were within method limits for all samples and quality control samples.

12065 Lebanon Rd
Mt. Juliet, TN 37122
(615) 758-5858
(800) 767-5859
Fax (615) 758-5859
Tax I.D 62-0814289
Est. 1970

Quality Control Summary
SDG: L735181

For: URS Corporation - Tucson AZ - 1088308
Project: Holloman AFB
December 30, 2015

Semi-Volatiles by Method 8270C

Laboratory Control Sample

Samples L735181-02, -05, and -07 were analyzed in analytical batch WG756405. The laboratory control sample associated with these samples was within the laboratory control limits for all target analytes reported from this batch. The relative percent difference was within laboratory limits for all target analytes reported from this batch.

Sample L735181-08 was analyzed in analytical batch WG756857. The laboratory control sample associated with this sample was within the laboratory control limits for all target analytes reported from this batch. The relative percent difference was within laboratory limits for all target analytes reported from this batch.

Samples L735181-02, -05, -07, and -08 were analyzed in analytical batch WG756543. The laboratory control sample associated with these samples was within the laboratory control limits for all target analytes reported from this batch. The relative percent difference was within laboratory limits for all target analytes reported from this batch.

Matrix Spike/Matrix Spike Duplicate

Precision for batch WG756405 was evaluated using the LCS/LCSD. The RPDs were within method limits.

Precision for batch WG756857 was evaluated using the LCS/LCSD. The RPDs were within method limits.

Precision for batch WG756543 was evaluated using the LCS/LCSD. The RPDs were within method limits.

Blank Analysis

The method blank, the initial, and all continuing calibration blanks contained no analytes at concentrations above the method reporting limit.

Calibration Summary

Instrument BNAMS19 was calibrated on 11/21/2014. The initial calibration and continuing calibration verification standards were within method limits.

Instrument BNAMS11 was calibrated on 11/12/2014. The initial calibration and continuing calibration verification standards were within method limits.

Instrument BNAMS14 was calibrated on 11/11/2014. The initial calibration and continuing calibration verification standards were within method limits.

Surrogate Summary

The surrogate recoveries were within method limits for all samples.

Internal Standards

The internal standard responses and retention times were within method limits for all samples and quality control samples.

C10-C40 Oil Range by Method 8015

Laboratory Control Sample

Samples L735181-02, -05, -07, and -10 were analyzed in analytical batch WG756714. The laboratory control sample associated with these samples was within the laboratory control limits for all target analytes reported from this batch. The relative percent difference was within laboratory limits for all target analytes reported from this batch.

12065 Lebanon Rd
Mt. Juliet, TN 37122
(615) 758-5858
(800) 767-5859
Fax (615) 758-5859
Tax I.D 62-0814289
Est. 1970

Quality Control Summary

SDG: L735181

For: URS Corporation - Tucson AZ - 1088308
Project: Holloman AFB
December 30, 2015

Matrix Spike/Matrix Spike Duplicate
Precision for batch WG756714 was evaluated using the LCS/LCSD. The RPDs were within method limits.

Blank Analysis
The method blank, the initial, and all continuing calibration blanks contained no analytes at concentrations above the method reporting limit.

Calibration Summary
Instrument SVGC31 was calibrated on 11/28/2014. The initial calibration and continuing calibration verification standards were within method limits.

Surrogate Summary
The surrogate recoveries were within method limits for all samples.

Digitally signed by Nancy McLain
DN: cn=Nancy McLain, o, ou=ESC Lab Sciences, email=nmclain@esclabsciences.com, c=US
Date: 2015.12.30 14:05:47 -06'00'

Nancy F. McLain
ESC Representative
ESC Lab Sciences

12065 Lebanon Rd.
Mt. Juliet, TN 37122
(615) 758-5858
1-800-767-5859
Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

Sheri Fling
URS
8181 E. Tufts Avenue
Denver, CO 80237

Report Summary

Monday December 08, 2014

Report Number: L735181
Samples Received: 11/21/14
Client Project: 23446543.0057AA

Description: Holloman AFB

The analytical results in this report are based upon information supplied by you, the client, and are for your exclusive use. If you have any questions regarding this data package, please do not hesitate to call.

Entire Report Reviewed By: Pamela A. Langford

Pam Langford , ESC Representative

Laboratory Certification Numbers

A2LA - 1461-01, AIHA - 100789, AL - 40660, CA - 01157CA, CT - PH-0197, FL - E87487, GA - 923, IN - C-TN-01, KY - 90010, KYUST - 0016, NC - ENV375/DW21704/BIO041, ND - R-140. NJ - TN002, NJ NELAP - TN002, SC - 84004, TN - 2006, VA - 460132, WV - 233, AZ - 0612, MN - 047-999-395, NY - 11742, WI - 998093910, NV - TN000032011-1, TX - T104704245-11-3, OK - 9915, PA - 68-02979, IA Lab #364, EPA - TN002

Accreditation is only applicable to the test methods specified on each scope of accreditation held by ESC Lab Sciences.

This report may not be reproduced, except in full, without written approval from ESC Lab Sciences.
Where applicable, sampling conducted by ESC is performed per guidance provided in laboratory standard operating procedures: 060302, 060303, and 060304.

12065 Lebanon Rd.
Mt. Juliet, TN 37122
(615) 758-5858
1-800-767-5859
Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

Sheri Fling
URS
8181 E. Tufts Avenue
Denver, CO 80237

December 08, 2014

ESC Sample # : L735181-01

Date Received : November 21, 2014
Description : Holloman AFB

Site ID :

Sample ID : H-TU508-TRIPBLANK-TT01

Project # : 23446543.0057AA

Collected By :
Collection Date : 11/20/14 14:20

Parameter	CAS#	Result	DL	LOD	LOQ	Units	Qual	Method	Date	Dil.
TPH (GC/FID) Low Fraction	8006-61-9	U	31	50.	100	ug/l		8015D/G	11/26/14	1
Surrogate Recovery-%										
a,a,a-Trifluorotoluene(FID)	98-08-8	99.4				% Rec.		8015D/G	11/26/14	1
Volatile Organics										
Acetone	67-64-1	U	10	25.	50	ug/l		8260B	11/26/14	1
Benzene	71-43-2	U	0.33	0.50	1	ug/l		8260B	11/26/14	1
Bromobenzene	108-86-1	U	0.35	0.50	1	ug/l		8260B	11/26/14	1
Bromochloromethane	74-97-5	U	0.52	0.75	1	ug/l		8260B	11/26/14	1
Bromodichloromethane	75-27-4	U	0.38	0.50	1	ug/l		8260B	11/26/14	1
Bromoform	75-25-2	U	0.47	0.50	1	ug/l		8260B	11/26/14	1
Bromomethane	74-83-9	U	0.87	2.5	5	ug/l		8260B	11/26/14	1
n-Butylbenzene	104-51-8	U	0.36	0.50	1	ug/l		8260B	11/26/14	1
sec-Butylbenzene	135-98-8	U	0.36	0.50	1	ug/l		8260B	11/26/14	1
tert-Butylbenzene	98-06-6	U	0.4	0.50	1	ug/l		8260B	11/26/14	1
Carbon Disulfide	75-15-0	U	0.28	0.50	1	ug/l		8260B	11/26/14	1
Carbon tetrachloride	56-23-5	U	0.38	0.50	1	ug/l		8260B	11/26/14	1
Chlorobenzene	108-90-7	U	0.35	0.50	1	ug/l		8260B	11/26/14	1
Chlorodibromomethane	124-48-1	U	0.33	0.50	1	ug/l		8260B	11/26/14	1
Chloroethane	75-00-3	U	0.45	2.5	5	ug/l		8260B	11/26/14	1
Chloroform	67-66-3	U	0.32	2.5	5	ug/l		8260B	11/26/14	1
Chloromethane	74-87-3	U	0.28	0.50	2.5	ug/l		8260B	11/26/14	1
2-Chlorotoluene	95-49-8	U	0.38	0.50	1	ug/l		8260B	11/26/14	1
4-Chlorotoluene	106-43-4	U	0.35	0.50	1	ug/l		8260B	11/26/14	1
1,2-Dibromo-3-Chloropropane	96-12-8	U	1.3	2.5	5	ug/l		8260B	11/26/14	1
1,2-Dibromoethane	106-93-4	U	0.38	0.50	1	ug/l		8260B	11/26/14	1
Dibromomethane	74-95-3	U	0.35	0.50	1	ug/l		8260B	11/26/14	1
1,2-Dichlorobenzene	95-50-1	U	0.35	0.50	1	ug/l		8260B	11/26/14	1
1,3-Dichlorobenzene	541-73-1	U	0.22	0.50	1	ug/l		8260B	11/26/14	1
1,4-Dichlorobenzene	106-46-7	U	0.27	0.50	1	ug/l		8260B	11/26/14	1
Dichlorodifluoromethane	75-71-8	U	0.55	2.5	5	ug/l		8260B	11/26/14	1
1,1-Dichloroethane	75-34-3	U	0.26	0.50	1	ug/l		8260B	11/26/14	1
1,2-Dichloroethane	107-06-2	U	0.36	0.50	1	ug/l		8260B	11/26/14	1
1,1-Dichloroethene	75-35-4	U	0.4	0.50	1	ug/l		8260B	11/26/14	1
cis-1,2-Dichloroethene	156-59-2	U	0.26	0.50	1	ug/l		8260B	11/26/14	1
trans-1,2-Dichloroethene	156-60-5	U	0.4	0.50	1	ug/l		8260B	11/26/14	1
1,2-Dichloropropane	78-87-5	U	0.31	0.50	1	ug/l		8260B	11/26/14	1
1,1-Dichloropropene	563-58-6	U	0.35	0.50	1	ug/l		8260B	11/26/14	1
1,3-Dichloropropane	142-28-9	U	0.37	0.50	1	ug/l		8260B	11/26/14	1
cis-1,3-Dichloropropene	10061-01-5	U	0.42	0.50	1	ug/l		8260B	11/26/14	1
trans-1,3-Dichloropropene	10061-02-6	U	0.42	0.50	1	ug/l		8260B	11/26/14	1
2,2-Dichloropropane	594-20-7	U	0.32	0.50	1	ug/l		8260B	11/26/14	1
Ethylbenzene	100-41-4	U	0.38	0.50	1	ug/l		8260B	11/26/14	1
2-Hexanone	591-78-6	U	3.8	5.0	10	ug/l		8260B	11/26/14	1
Hexachloro-1,3-butadiene	87-68-3	U	0.26	0.50	1	ug/l		8260B	11/26/14	1
Isopropylbenzene	98-82-8	U	0.33	0.50	1	ug/l		8260B	11/26/14	1

U = Not Detected at the LOD
Note:
The reported analytical results relate only to the sample submitted.
This report shall not be reproduced, except in full, without the written approval from ESC.
Reported: 12/03/14 10:12 Revised: 12/08/14 12:51

12065 Lebanon Rd.
Mt. Juliet, TN 37122
(615) 758-5858
1-800-767-5859
Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

Sheri Fling
URS
8181 E. Tufts Avenue
Denver, CO 80237

December 08, 2014

ESC Sample # : L735181-01

Date Received : November 21, 2014
Description : Holloman AFB

Site ID :

Sample ID : H-TU508-TRIPBLANK-TT01

Project # : 23446543.0057AA

Collected By :
Collection Date : 11/20/14 14:20

Parameter	CAS#	Result	DL	LOD	LOQ	Units	Qual	Method	Date	Dil.
p-Isopropyltoluene	99-87-6	U	0.35	0.50	1	ug/l		8260B	11/26/14	1
2-Butanone (MEK)	78-93-3	U	3.9	5.0	10	ug/l		8260B	11/26/14	1
Methylene Chloride	75-09-2	U	1	2.5	5	ug/l		8260B	11/26/14	1
4-Methyl-2-pentanone (MIBK)	108-10-1	U	2.1	5.0	10	ug/l		8260B	11/26/14	1
Methyl tert-butyl ether	1634-04-4	U	0.37	0.50	1	ug/l		8260B	11/26/14	1
Naphthalene	91-20-3	U	1	2.5	5	ug/l		8260B	11/26/14	1
n-Propylbenzene	103-65-1	U	0.35	0.50	1	ug/l		8260B	11/26/14	1
Styrene	100-42-5	U	0.31	0.50	1	ug/l		8260B	11/26/14	1
1,1,1,2-Tetrachloroethane	630-20-6	U	0.38	0.50	1	ug/l		8260B	11/26/14	1
1,1,2,2-Tetrachloroethane	79-34-5	U	0.58	0.75	1	ug/l		8260B	11/26/14	1
Tetrachloroethene	127-18-4	U	0.37	0.50	1	ug/l		8260B	11/26/14	1
Toluene	108-88-3	U	0.78	2.5	5	ug/l		8260B	11/26/14	1
1,2,3-Trichlorobenzene	87-61-6	U	0.23	0.50	1	ug/l		8260B	11/26/14	1
1,2,4-Trichlorobenzene	120-82-1	U	0.21	0.50	1	ug/l		8260B	11/26/14	1
1,1,1-Trichloroethane	71-55-6	U	0.319	0.50	1	ug/l		8260B	11/26/14	1
1,1,2-Trichloroethane	79-00-5	U	0.38	0.50	1	ug/l		8260B	11/26/14	1
Trichloroethene	79-01-6	U	0.4	0.50	1	ug/l		8260B	11/26/14	1
Trichlorofluoromethane	75-69-4	U	1.2	2.5	5	ug/l		8260B	11/26/14	1
1,2,3-Trichloropropane	96-18-4	U	0.81	1.0	2.5	ug/l		8260B	11/26/14	1
1,2,4-Trimethylbenzene	95-63-6	U	0.37	0.50	1	ug/l		8260B	11/26/14	1
1,3,5-Trimethylbenzene	108-67-8	U	0.39	0.50	1	ug/l		8260B	11/26/14	1
o-Xylene	95-47-6	U	0.34	0.50	1	ug/l		8260B	11/26/14	1
m&p-Xylene	1330-20-7	U	0.72	1.0	2	ug/l		8260B	11/26/14	1
Vinyl chloride	75-01-4	U	0.26	0.50	1	ug/l		8260B	11/26/14	1
Surrogate Recovery										
Toluene-d8	2037-26-5	99.1				% Rec.		8260B	11/26/14	1
Dibromofluoromethane	1868-53-7	102.				% Rec.		8260B	11/26/14	1
4-Bromofluorobenzene	460-00-4	98.1				% Rec.		8260B	11/26/14	1

U = Not Detected at the LOD
Note:
The reported analytical results relate only to the sample submitted.
This report shall not be reproduced, except in full, without the written approval from ESC.
Reported: 12/03/14 10:12 Revised: 12/08/14 12:51

12065 Lebanon Rd.
Mt. Juliet, TN 37122
(615) 758-5858
1-800-767-5859
Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

Sheri Fling
URS
8181 E. Tufts Avenue
Denver, CO 80237

December 08, 2014

ESC Sample # : L735181-02

Date Received : November 21, 2014
Description : Holloman AFB

Site ID :

Sample ID : H-TU508-MW06-NT01

Project # : 23446543.0057AA

Collected By :
Collection Date : 11/19/14 11:27

Parameter	CAS#	Result	DL	LOD	LOQ	Units	Qual	Method	Date	Dil.
Antimony	7440-36-0	0.57	0.21	0.50	2	ug/l	J	6020	12/01/14	1
Arsenic	7440-38-2	8.9	1.2	2.5	10	ug/l	J	6020	11/28/14	5
Cadmium	7440-43-9	U	0.8	2.5	5	ug/l		6020	11/28/14	5
Chromium	7440-47-3	21.	2.7	7.5	10	ug/l		6020	11/28/14	5
Cobalt	7440-48-4	9.7	1.3	2.5	10	ug/l	J	6020	11/28/14	5
Lead	7439-92-1	11.	1.2	2.5	10	ug/l		6020	12/02/14	5
Nickel	7440-02-0	18.	0.35	1.0	2	ug/l		6020	12/01/14	1
Selenium	7782-49-2	6.8	1.9	5.0	10	ug/l	J	6020	11/28/14	5
Silver	7440-22-4	U	1.6	2.5	10	ug/l		6020	11/28/14	5
Thallium	7440-28-0	U	0.95	2.5	10	ug/l		6020	11/28/14	5
Mercury	7439-97-6	U	0.049	0.080	0.2	ug/l		7470A	11/22/14	1
Aluminum	7429-90-5	7400	180	250	500	ug/l		6010B	11/28/14	5
Barium	7440-39-3	270	8.5	13.	25	ug/l		6010B	11/28/14	5
Beryllium	7440-41-7	U	3.5	5.0	10	ug/l		6010B	11/28/14	5
Copper	7440-50-8	U	26	50.	100	ug/l		6010B	11/28/14	5
Manganese	7439-96-5	730	6	25.	50	ug/l		6010B	11/28/14	5
Vanadium	7440-62-2	27.	12	50.	100	ug/l	J	6010B	11/28/14	5
Zinc	7440-66-6	30.	30	130	250	ug/l	J	6010B	11/28/14	5
TPH (GC/FID) Low Fraction	8006-61-9	84.	31	50.	100	ug/l	J	8015D/G	11/26/14	1
Surrogate Recovery-%										
a,a,a-Trifluorotoluene(FID)	98-08-8	99.2				% Rec.		8015D/G	11/26/14	1
Volatile Organics										
Acetone	67-64-1	U	10	25.	50	ug/l		8260B	11/26/14	1
Benzene	71-43-2	U	0.33	0.50	1	ug/l		8260B	11/29/14	1
Bromobenzene	108-86-1	U	0.35	0.50	1	ug/l		8260B	11/26/14	1
Bromochloromethane	74-97-5	U	0.52	0.75	1	ug/l		8260B	11/26/14	1
Bromodichloromethane	75-27-4	U	0.38	0.50	1	ug/l		8260B	11/26/14	1
Bromoform	75-25-2	U	0.47	0.50	1	ug/l		8260B	11/26/14	1
Bromomethane	74-83-9	U	0.87	2.5	5	ug/l		8260B	11/26/14	1
n-Butylbenzene	104-51-8	U	0.36	0.50	1	ug/l		8260B	11/26/14	1
sec-Butylbenzene	135-98-8	U	0.36	0.50	1	ug/l		8260B	11/26/14	1
tert-Butylbenzene	98-06-6	U	0.4	0.50	1	ug/l		8260B	11/26/14	1
Carbon Disulfide	75-15-0	U	0.28	0.50	1	ug/l		8260B	11/26/14	1
Carbon tetrachloride	56-23-5	U	0.38	0.50	1	ug/l		8260B	11/26/14	1
Chlorobenzene	108-90-7	U	0.35	0.50	1	ug/l		8260B	11/26/14	1
Chlorodibromomethane	124-48-1	U	0.33	0.50	1	ug/l		8260B	11/26/14	1
Chloroethane	75-00-3	U	0.45	2.5	5	ug/l		8260B	11/26/14	1
Chloroform	67-66-3	0.50	0.32	2.5	5	ug/l	J	8260B	11/26/14	1
Chloromethane	74-87-3	U	0.28	0.50	2.5	ug/l		8260B	11/26/14	1
2-Chlorotoluene	95-49-8	U	0.38	0.50	1	ug/l		8260B	11/26/14	1
4-Chlorotoluene	106-43-4	U	0.35	0.50	1	ug/l		8260B	11/26/14	1
1,2-Dibromo-3-Chloropropane	96-12-8	U	1.3	2.5	5	ug/l		8260B	11/26/14	1

U = Not Detected at the LOD
Note:
The reported analytical results relate only to the sample submitted.
This report shall not be reproduced, except in full, without the written approval from ESC.
Reported: 12/03/14 10:12 Revised: 12/08/14 12:51
L735181-02 (ICP METALS) - Diluted due to matrix interference.
L735181-02 (GFAA METALS) - Non-target compounds too high to run at a lower dilution.

12065 Lebanon Rd.
Mt. Juliet, TN 37122
(615) 758-5858
1-800-767-5859
Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

Sheri Fling
URS
8181 E. Tufts Avenue
Denver, CO 80237

December 08, 2014

ESC Sample # : L735181-02

Date Received : November 21, 2014
Description : Holloman AFB

Site ID :

Sample ID : H-TU508-MW06-NT01

Project # : 23446543.0057AA

Collected By :
Collection Date : 11/19/14 11:27

Parameter	CAS#	Result	DL	LOD	LOQ	Units	Qual	Method	Date	Dil.
1,2-Dibromoethane	106-93-4	U	0.38	0.50	1	ug/l		8260B	11/26/14	1
Dibromomethane	74-95-3	U	0.35	0.50	1	ug/l		8260B	11/26/14	1
1,2-Dichlorobenzene	95-50-1	U	0.35	0.50	1	ug/l		8260B	11/26/14	1
1,3-Dichlorobenzene	541-73-1	U	0.22	0.50	1	ug/l		8260B	11/26/14	1
1,4-Dichlorobenzene	106-46-7	U	0.27	0.50	1	ug/l		8260B	11/26/14	1
Dichlorodifluoromethane	75-71-8	U	0.55	2.5	5	ug/l		8260B	11/26/14	1
1,1-Dichloroethane	75-34-3	10.	0.26	0.50	1	ug/l		8260B	11/26/14	1
1,2-Dichloroethane	107-06-2	U	0.36	0.50	1	ug/l		8260B	11/26/14	1
1,1-Dichloroethene	75-35-4	22.	0.4	0.50	1	ug/l		8260B	11/26/14	1
cis-1,2-Dichloroethene	156-59-2	27.	0.26	0.50	1	ug/l		8260B	11/26/14	1
trans-1,2-Dichloroethene	156-60-5	1.1	0.4	0.50	1	ug/l		8260B	11/26/14	1
1,2-Dichloropropane	78-87-5	U	0.31	0.50	1	ug/l		8260B	11/26/14	1
1,1-Dichloropropene	563-58-6	U	0.35	0.50	1	ug/l		8260B	11/26/14	1
1,3-Dichloropropane	142-28-9	U	0.37	0.50	1	ug/l		8260B	11/26/14	1
cis-1,3-Dichloropropene	10061-01-5	U	0.42	0.50	1	ug/l		8260B	11/26/14	1
trans-1,3-Dichloropropene	10061-02-6	U	0.42	0.50	1	ug/l		8260B	11/26/14	1
2,2-Dichloropropane	594-20-7	U	0.32	0.50	1	ug/l		8260B	11/26/14	1
Ethylbenzene	100-41-4	U	0.38	0.50	1	ug/l		8260B	11/29/14	1
2-Hexanone	591-78-6	U	3.8	5.0	10	ug/l		8260B	11/26/14	1
Hexachloro-1,3-butadiene	87-68-3	U	0.26	0.50	1	ug/l		8260B	11/26/14	1
Isopropylbenzene	98-82-8	U	0.33	0.50	1	ug/l		8260B	11/26/14	1
p-Isopropyltoluene	99-87-6	U	0.35	0.50	1	ug/l		8260B	11/26/14	1
2-Butanone (MEK)	78-93-3	U	3.9	5.0	10	ug/l		8260B	11/26/14	1
Methylene Chloride	75-09-2	U	1	2.5	5	ug/l		8260B	11/26/14	1
4-Methyl-2-pentanone (MIBK)	108-10-1	U	2.1	5.0	10	ug/l		8260B	11/26/14	1
Methyl tert-butyl ether	1634-04-4	8.3	0.37	0.50	1	ug/l		8260B	11/26/14	1
Naphthalene	91-20-3	3.1	1	2.5	5	ug/l	J	8260B	11/26/14	1
n-Propylbenzene	103-65-1	U	0.35	0.50	1	ug/l		8260B	11/26/14	1
Styrene	100-42-5	U	0.31	0.50	1	ug/l		8260B	11/26/14	1
1,1,1,2-Tetrachloroethane	630-20-6	U	0.38	0.50	1	ug/l		8260B	11/26/14	1
1,1,2,2-Tetrachloroethane	79-34-5	U	0.58	0.75	1	ug/l		8260B	11/26/14	1
Tetrachloroethene	127-18-4	47.	0.37	0.50	1	ug/l		8260B	11/26/14	1
Toluene	108-88-3	U	0.78	2.5	5	ug/l		8260B	11/26/14	1
1,2,3-Trichlorobenzene	87-61-6	U	0.23	0.50	1	ug/l		8260B	11/26/14	1
1,2,4-Trichlorobenzene	120-82-1	U	0.21	0.50	1	ug/l		8260B	11/26/14	1
1,1,1-Trichloroethane	71-55-6	U	0.319	0.50	1	ug/l		8260B	11/26/14	1
1,1,2-Trichloroethane	79-00-5	U	0.38	0.50	1	ug/l		8260B	11/26/14	1
Trichloroethene	79-01-6	39.	0.4	0.50	1	ug/l		8260B	11/26/14	1
Trichlorofluoromethane	75-69-4	U	1.2	2.5	5	ug/l		8260B	11/26/14	1
1,2,3-Trichloropropane	96-18-4	U	0.81	1.0	2.5	ug/l		8260B	11/26/14	1
1,2,4-Trimethylbenzene	95-63-6	U	0.37	0.50	1	ug/l		8260B	11/29/14	1
1,3,5-Trimethylbenzene	108-67-8	U	0.39	0.50	1	ug/l		8260B	11/26/14	1
o-Xylene	95-47-6	U	0.34	0.50	1	ug/l		8260B	11/26/14	1
m&p-Xylene	1330-20-7	U	0.72	1.0	2	ug/l		8260B	11/26/14	1
Vinyl chloride	75-01-4	U	0.26	0.50	1	ug/l		8260B	11/26/14	1
Surrogate Recovery										

U = Not Detected at the LOD
Note:
The reported analytical results relate only to the sample submitted.
This report shall not be reproduced, except in full, without the written approval from ESC.
Reported: 12/03/14 10:12 Revised: 12/08/14 12:51
L735181-02 (ICP METALS) - Diluted due to matrix interference.
L735181-02 (GFAA METALS) - Non-target compounds too high to run at a lower dilution.

12065 Lebanon Rd.
Mt. Juliet, TN 37122
(615) 758-5858
1-800-767-5859
Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

Sheri Fling
URS
8181 E. Tufts Avenue
Denver, CO 80237

December 08, 2014

ESC Sample # : L735181-02

Date Received : November 21, 2014
Description : Holloman AFB

Site ID :

Sample ID : H-TU508-MW06-NT01

Project # : 23446543.0057AA

Collected By :
Collection Date : 11/19/14 11:27

Parameter	CAS#	Result	DL	LOD	LOQ	Units	Qual	Method	Date	Dil.
Toluene-d8	2037-26-5	98.3				% Rec.		8260B	11/26/14	1
Dibromofluoromethane	1868-53-7	98.1				% Rec.		8260B	11/26/14	1
4-Bromofluorobenzene	460-00-4	98.0				% Rec.		8260B	11/26/14	1
Diesel and Oil Ranges										
C10-C28 Diesel Range		560	22	33.	100	ug/l		8015	11/26/14	1
C28-C40 Oil Range		81.	12	33.	100	ug/l	J	8015	11/26/14	1
Surrogate Recovery										
o-Terphenyl	84-15-1	102.				% Rec.		8015	11/26/14	1
Polynuclear Aromatic Hydrocarbons										
Anthracene	120-12-7	U	0.013	0.025	0.05	ug/l		8270 C-	11/25/14	1
Acenaphthene	83-32-9	U	0.0082	0.025	0.05	ug/l		8270 C-	11/25/14	1
Acenaphthylene	208-96-8	U	0.011	0.025	0.05	ug/l		8270 C-	11/25/14	1
Benzo(a)anthracene	56-55-3	U	0.012	0.025	0.05	ug/l		8270 C-	11/25/14	1
Benzo(a)pyrene	50-32-8	U	0.016	0.025	0.05	ug/l		8270 C-	11/25/14	1
Benzo(b)fluoranthene	205-99-2	U	0.019	0.025	0.05	ug/l		8270 C-	11/25/14	1
Benzo(g,h,i)perylene	191-24-2	U	0.016	0.025	0.05	ug/l		8270 C-	11/25/14	1
Benzo(k)fluoranthene	207-08-9	U	0.026	0.035	0.05	ug/l		8270 C-	11/25/14	1
Chrysene	218-01-9	U	0.014	0.025	0.05	ug/l		8270 C-	11/25/14	1
Dibenz(a,h)anthracene	53-70-3	U	0.0045	0.025	0.05	ug/l		8270 C-	11/25/14	1
Fluoranthene	206-44-0	U	0.016	0.025	0.05	ug/l		8270 C-	11/25/14	1
Fluorene	86-73-7	U	0.009	0.025	0.05	ug/l		8270 C-	11/25/14	1
Indeno(1,2,3-cd)pyrene	193-39-5	U	0.0074	0.025	0.05	ug/l		8270 C-	11/25/14	1
Naphthalene	91-20-3	0.022	0.012	0.025	0.25	ug/l	J	8270 C-	11/25/14	1
Phenanthrene	85-01-8	U	0.018	0.025	0.05	ug/l		8270 C-	11/25/14	1
Pyrene	129-00-0	U	0.016	0.025	0.05	ug/l		8270 C-	11/25/14	1
2-Methylnaphthalene	91-57-6	U	0.016	0.025	0.25	ug/l		8270 C-	11/25/14	1
Surrogate Recovery										
Nitrobenzene-d5	4165-60-0	50.2				% Rec.		8270 C-	11/25/14	1
2-Fluorobiphenyl	321-60-8	48.8				% Rec.		8270 C-	11/25/14	1
p-Terphenyl-d14	1718-51-0	60.8				% Rec.		8270 C-	11/25/14	1
Base/Neutral Extractables										
Bis(2-chlorethoxy)methane	111-91-1	U	0.33	5.0	10	ug/l		8270C	11/26/14	1
Bis(2-chloroethyl)ether	111-44-4	U	1.6	5.0	10	ug/l		8270C	11/26/14	1
Bis(2-chloroisopropyl)ether	108-60-1	U	0.44	5.0	10	ug/l		8270C	11/26/14	1
Benzyl Alcohol	100-51-6	U	0.39	5.0	10	ug/l		8270C	11/26/14	1
Carbazole	86-74-8	U	0.16	5.0	10	ug/l		8270C	11/26/14	1
Benzoic acid	65-85-0	U	0.44	5.0	10	ug/l		8270C	11/26/14	1
Dibenzofuran	132-64-9	U	0.34	5.0	10	ug/l		8270C	11/26/14	1
4-Bromophenyl-phenylether	101-55-3	U	0.36	5.0	10	ug/l		8270C	11/26/14	1
2-Chloronaphthalene	91-58-7	U	0.33	0.50	1	ug/l		8270C	11/26/14	1
4-Chlorophenyl-phenylether	7005-72-3	U	0.3	5.0	10	ug/l		8270C	11/26/14	1
3,3-Dichlorobenzidine	91-94-1	U	2	5.0	10	ug/l		8270C	11/26/14	1
2,4-Dinitrotoluene	121-14-2	U	1.6	5.0	10	ug/l		8270C	11/26/14	1

U = Not Detected at the LOD
Note:
The reported analytical results relate only to the sample submitted.
This report shall not be reproduced, except in full, without the written approval from ESC.
Reported: 12/03/14 10:12 Revised: 12/08/14 12:51
L735181-02 (ICP METALS) - Diluted due to matrix interference.
L735181-02 (GFAA METALS) - Non-target compounds too high to run at a lower dilution.

12065 Lebanon Rd.
Mt. Juliet, TN 37122
(615) 758-5858
1-800-767-5859
Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

Sheri Fling
URS
8181 E. Tufts Avenue
Denver, CO 80237

December 08, 2014

ESC Sample # : L735181-02

Date Received : November 21, 2014
Description : Holloman AFB

Site ID :

Sample ID : H-TU508-MW06-NT01

Project # : 23446543.0057AA

Collected By :
Collection Date : 11/19/14 11:27

Parameter	CAS#	Result	DL	LOD	LOQ	Units	Qual	Method	Date	Dil.
2,6-Dinitrotoluene	606-20-2	U	0.28	5.0	10	ug/l		8270C	11/26/14	1
Hexachlorobenzene	118-74-1	U	0.34	0.50	1	ug/l		8270C	11/26/14	1
Hexachloro-1,3-butadiene	87-68-3	U	0.33	5.0	10	ug/l		8270C	11/26/14	1
Hexachloroethane	67-72-1	U	0.36	5.0	10	ug/l		8270C	11/26/14	1
Isophorone	78-59-1	U	0.27	5.0	10	ug/l		8270C	11/26/14	1
Nitrobenzene	98-95-3	U	0.37	5.0	10	ug/l		8270C	11/26/14	1
n-Nitrosodimethylamine	62-75-9	U	1.3	5.0	10	ug/l		8270C	11/26/14	1
n-Nitrosodiphenylamine	86-30-6	U	0.3	5.0	10	ug/l		8270C	11/26/14	1
n-Nitrosodi-n-propylamine	621-64-7	U	0.4	5.0	10	ug/l		8270C	11/26/14	1
Benzylbutyl phthalate	85-68-7	U	0.28	1.0	3	ug/l		8270C	11/26/14	1
Bis(2-ethylhexyl)phthalate	117-81-7	U	0.71	1.0	3	ug/l		8270C	11/26/14	1
Di-n-butyl phthalate	84-74-2	U	0.27	1.0	3	ug/l		8270C	11/26/14	1
Diethyl phthalate	84-66-2	U	0.28	1.0	3	ug/l		8270C	11/26/14	1
Dimethyl phthalate	131-11-3	U	0.28	1.0	3	ug/l		8270C	11/26/14	1
Di-n-octyl phthalate	117-84-0	U	0.28	1.0	3	ug/l		8270C	11/26/14	1
1,2,4-Trichlorobenzene	120-82-1	U	0.36	5.0	10	ug/l		8270C	11/26/14	1
Acid Extractables										
4-Chloro-3-methylphenol	59-50-7	U	0.26	5.0	10	ug/l		8270C	11/26/14	1
2-Chlorophenol	95-57-8	U	0.28	5.0	10	ug/l		8270C	11/26/14	1
2,4-Dichlorophenol	120-83-2	U	0.28	5.0	10	ug/l		8270C	11/26/14	1
2,4-Dimethylphenol	105-67-9	U	0.62	5.0	10	ug/l		8270C	11/26/14	1
4,6-Dinitro-2-methylphenol	534-52-1	U	2.6	5.0	10	ug/l		8270C	11/26/14	1
2,4-Dinitrophenol	51-28-5	U	3.2	5.0	10	ug/l		8270C	11/26/14	1
2-Methylphenol	95-48-7	U	0.31	5.0	10	ug/l		8270C	11/26/14	1
3&4-Methyl Phenol	3&4-Methyl	U	0.27	5.0	10	ug/l		8270C	11/26/14	1
2-Nitrophenol	88-75-5	U	0.32	5.0	10	ug/l		8270C	11/26/14	1
4-Nitrophenol	100-02-7	U	2	5.0	10	ug/l		8270C	11/26/14	1
4-Chloroaniline	106-47-8	U	0.38	5.0	10	ug/l		8270C	11/26/14	1
2-Nitroaniline	88-74-4	U	1.9	5.0	10	ug/l		8270C	11/26/14	1
3-Nitroaniline	99-09-2	U	0.31	5.0	10	ug/l		8270C	11/26/14	1
1,2-Diphenylhydrazine	103-33-3	U	0.32	5.0	10	ug/l		8270C	11/26/14	1
4-Nitroaniline	100-01-6	U	0.35	5.0	10	ug/l		8270C	11/26/14	1
Pentachlorophenol	87-86-5	U	0.31	5.0	10	ug/l		8270C	11/26/14	1
Phenol	108-95-2	U	0.33	5.0	10	ug/l		8270C	11/26/14	1
2,4,5-Trichlorophenol	95-95-4	U	0.24	5.0	10	ug/l		8270C	11/26/14	1
2,4,6-Trichlorophenol	88-06-2	U	0.3	5.0	10	ug/l		8270C	11/26/14	1
Surrogate Recovery										
2-Fluorophenol	367-12-4	41.4				% Rec.		8270C	11/26/14	1
Phenol-d5	4165-62-2	30.7				% Rec.		8270C	11/26/14	1
Nitrobenzene-d5	4165-60-0	71.1				% Rec.		8270C	11/26/14	1
2-Fluorobiphenyl	321-60-8	76.8				% Rec.		8270C	11/26/14	1
2,4,6-Tribromophenol	118-79-6	70.6				% Rec.		8270C	11/26/14	1
p-Terphenyl-d14	1718-51-0	71.1				% Rec.		8270C	11/26/14	1

U = Not Detected at the LOD
Note:
The reported analytical results relate only to the sample submitted.
This report shall not be reproduced, except in full, without the written approval from ESC.
Reported: 12/03/14 10:12 Revised: 12/08/14 12:51
L735181-02 (ICP METALS) - Diluted due to matrix interference.
L735181-02 (GFAA METALS) - Non-target compounds too high to run at a lower dilution.

12065 Lebanon Rd.
Mt. Juliet, TN 37122
(615) 758-5858
1-800-767-5859
Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

Sheri Fling
URS
8181 E. Tufts Avenue
Denver, CO 80237

December 08, 2014

ESC Sample # : L735181-03

Date Received : November 21, 2014
Description : Holloman AFB

Site ID :

Sample ID : H-TU508-MW06-ND01

Project # : 23446543.0057AA

Collected By :
Collection Date : 11/19/14 11:27

Parameter	CAS#	Result	DL	LOD	LOQ	Units	Qual	Method	Date	Dil.
Antimony,Dissolved	7440-36-0	U	1	2.5	10	ug/l		6020	11/28/14	5
Arsenic,Dissolved	7440-38-2	5.3	1.2	2.5	10	ug/l	J	6020	11/28/14	5
Cadmium,Dissolved	7440-43-9	U	0.8	2.5	5	ug/l		6020	11/28/14	5
Chromium,Dissolved	7440-47-3	U	2.7	7.5	10	ug/l		6020	11/28/14	5
Cobalt,Dissolved	7440-48-4	2.6	1.3	2.5	10	ug/l	J	6020	11/28/14	5
Lead,Dissolved	7439-92-1	U	1.2	2.5	10	ug/l		6020	11/28/14	5
Nickel,Dissolved	7440-02-0	8.5	1.8	5.0	10	ug/l	J	6020	11/28/14	5
Selenium,Dissolved	7782-49-2	3.1	1.9	5.0	10	ug/l	J	6020	11/28/14	5
Silver,Dissolved	7440-22-4	U	1.6	2.5	10	ug/l		6020	11/28/14	5
Thallium,Dissolved	7440-28-0	U	0.95	2.5	10	ug/l		6020	11/28/14	5
Mercury,Dissolved	7439-97-6	U	0.049	0.080	0.2	ug/l		7470A	11/24/14	1
Aluminum,Dissolved	7429-90-5	270	180	250	500	ug/l	J	6010B	11/26/14	5
Barium,Dissolved	7440-39-3	57.	8.5	13.	25	ug/l		6010B	11/26/14	5
Beryllium,Dissolved	7440-41-7	U	3.5	5.0	10	ug/l		6010B	11/26/14	5
Copper,Dissolved	7440-50-8	U	26	50.	100	ug/l		6010B	11/26/14	5
Manganese,Dissolved	7439-96-5	820	6	25.	50	ug/l		6010B	11/26/14	5
Vanadium,Dissolved	7440-62-2	62.	12	50.	100	ug/l	J	6010B	11/26/14	5
Zinc,Dissolved	7440-66-6	U	30	130	250	ug/l		6010B	11/26/14	5

U = Not Detected at the LOD
Note:
The reported analytical results relate only to the sample submitted.
This report shall not be reproduced, except in full, without the written approval from ESC.
Reported: 12/03/14 10:12 Revised: 12/08/14 12:51
L735181-03 (GFAA METALS) - Non-target compounds too high to run at a lower dilution.
L735181-03 (ICP METALS) - Diluted due to matrix interference.

12065 Lebanon Rd.
Mt. Juliet, TN 37122
(615) 758-5858
1-800-767-5859
Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

Sheri Fling
URS
8181 E. Tufts Avenue
Denver, CO 80237

December 08, 2014

ESC Sample # : L735181-04

Date Received : November 21, 2014
Description : Holloman AFB

Site ID :

Sample ID : H-TU508-MW05-ND01

Project # : 23446543.0057AA

Collected By :
Collection Date : 11/19/14 10:00

Parameter	CAS#	Result	DL	LOD	LOQ	Units	Qual	Method	Date	Dil.
Antimony,Dissolved	7440-36-0	U	1	2.5	10	ug/l		6020	11/28/14	5
Arsenic,Dissolved	7440-38-2	19.	1.2	2.5	10	ug/l		6020	11/28/14	5
Cadmium,Dissolved	7440-43-9	U	0.8	2.5	5	ug/l		6020	11/28/14	5
Chromium,Dissolved	7440-47-3	U	2.7	7.5	10	ug/l		6020	11/28/14	5
Cobalt,Dissolved	7440-48-4	3.7	1.3	2.5	10	ug/l	J	6020	11/28/14	5
Lead,Dissolved	7439-92-1	U	1.2	2.5	10	ug/l		6020	11/28/14	5
Nickel,Dissolved	7440-02-0	5.6	1.8	5.0	10	ug/l	J	6020	11/28/14	5
Selenium,Dissolved	7782-49-2	3.7	1.9	5.0	10	ug/l	J	6020	11/28/14	5
Silver,Dissolved	7440-22-4	U	1.6	2.5	10	ug/l		6020	11/28/14	5
Thallium,Dissolved	7440-28-0	U	0.95	2.5	10	ug/l		6020	11/28/14	5
Mercury,Dissolved	7439-97-6	U	0.049	0.080	0.2	ug/l		7470A	11/24/14	1
Aluminum,Dissolved	7429-90-5	U	180	250	500	ug/l		6010B	11/26/14	5
Barium,Dissolved	7440-39-3	39.	8.5	13.	25	ug/l		6010B	11/26/14	5
Beryllium,Dissolved	7440-41-7	U	3.5	5.0	10	ug/l		6010B	11/26/14	5
Copper,Dissolved	7440-50-8	U	26	50.	100	ug/l		6010B	11/26/14	5
Manganese,Dissolved	7439-96-5	360	6	25.	50	ug/l		6010B	11/26/14	5
Vanadium,Dissolved	7440-62-2	35.	12	50.	100	ug/l	J	6010B	11/26/14	5
Zinc,Dissolved	7440-66-6	U	30	130	250	ug/l		6010B	11/26/14	5

U = Not Detected at the LOD
Note:
The reported analytical results relate only to the sample submitted.
This report shall not be reproduced, except in full, without the written approval from ESC.
Reported: 12/03/14 10:12 Revised: 12/08/14 12:51
L735181-04 (GFAA METALS) - Non-target compounds too high to run at a lower dilution.
L735181-04 (ICP METALS) - Diluted due to matrix interference.

12065 Lebanon Rd.
Mt. Juliet, TN 37122
(615) 758-5858
1-800-767-5859
Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

Sheri Fling
URS
8181 E. Tufts Avenue
Denver, CO 80237

December 08, 2014

ESC Sample # : L735181-05

Date Received : November 21, 2014
Description : Holloman AFB

Site ID :

Sample ID : H-TU508-MW05-NT01

Project # : 23446543.0057AA

Collected By :
Collection Date : 11/19/14 10:00

Parameter	CAS#	Result	DL	LOD	LOQ	Units	Qual	Method	Date	Dil.
Antimony	7440-36-0	0.96	0.21	0.50	2	ug/l	J	6020	12/01/14	1
Arsenic	7440-38-2	17.	1.2	2.5	10	ug/l		6020	11/28/14	5
Cadmium	7440-43-9	U	0.8	2.5	5	ug/l		6020	11/28/14	5
Chromium	7440-47-3	4.7	2.7	7.5	10	ug/l	J	6020	11/28/14	5
Cobalt	7440-48-4	4.1	1.3	2.5	10	ug/l	J	6020	11/28/14	5
Lead	7439-92-1	1.2	1.2	2.5	10	ug/l	J	6020	12/02/14	5
Nickel	7440-02-0	6.7	0.35	1.0	2	ug/l		6020	12/01/14	1
Selenium	7782-49-2	3.0	1.9	5.0	10	ug/l	J	6020	11/28/14	5
Silver	7440-22-4	U	1.6	2.5	10	ug/l		6020	11/28/14	5
Thallium	7440-28-0	U	0.95	2.5	10	ug/l		6020	11/28/14	5
Mercury	7439-97-6	U	0.049	0.080	0.2	ug/l		7470A	11/22/14	1
Aluminum	7429-90-5	1500	180	250	500	ug/l		6010B	11/28/14	5
Barium	7440-39-3	84.	8.5	13.	25	ug/l		6010B	11/28/14	5
Beryllium	7440-41-7	U	3.5	5.0	10	ug/l		6010B	11/28/14	5
Copper	7440-50-8	U	26	50.	100	ug/l		6010B	11/28/14	5
Manganese	7439-96-5	650	6	25.	50	ug/l		6010B	11/28/14	5
Vanadium	7440-62-2	40.	12	50.	100	ug/l	J	6010B	11/28/14	5
Zinc	7440-66-6	U	30	130	250	ug/l		6010B	11/28/14	5
TPH (GC/FID) Low Fraction	8006-61-9	76.	31	50.	100	ug/l	J	8015D/G	11/26/14	1
Surrogate Recovery-%										
a,a,a-Trifluorotoluene(FID)	98-08-8	98.5				% Rec.		8015D/G	11/26/14	1
Volatile Organics										
Acetone	67-64-1	U	10	25.	50	ug/l		8260B	11/26/14	1
Benzene	71-43-2	6.3	0.33	0.50	1	ug/l		8260B	11/26/14	1
Bromobenzene	108-86-1	U	0.35	0.50	1	ug/l		8260B	11/26/14	1
Bromochloromethane	74-97-5	U	0.52	0.75	1	ug/l		8260B	11/26/14	1
Bromodichloromethane	75-27-4	U	0.38	0.50	1	ug/l		8260B	11/26/14	1
Bromoform	75-25-2	U	0.47	0.50	1	ug/l		8260B	11/26/14	1
Bromomethane	74-83-9	U	0.87	2.5	5	ug/l		8260B	11/26/14	1
n-Butylbenzene	104-51-8	U	0.36	0.50	1	ug/l		8260B	11/26/14	1
sec-Butylbenzene	135-98-8	U	0.36	0.50	1	ug/l		8260B	11/26/14	1
tert-Butylbenzene	98-06-6	0.69	0.4	0.50	1	ug/l	J	8260B	11/26/14	1
Carbon Disulfide	75-15-0	U	0.28	0.50	1	ug/l		8260B	11/26/14	1
Carbon tetrachloride	56-23-5	U	0.38	0.50	1	ug/l		8260B	11/26/14	1
Chlorobenzene	108-90-7	U	0.35	0.50	1	ug/l		8260B	11/26/14	1
Chlorodibromomethane	124-48-1	U	0.33	0.50	1	ug/l		8260B	11/26/14	1
Chloroethane	75-00-3	U	0.45	2.5	5	ug/l		8260B	11/26/14	1
Chloroform	67-66-3	U	0.32	2.5	5	ug/l		8260B	11/26/14	1
Chloromethane	74-87-3	U	0.28	0.50	2.5	ug/l		8260B	11/26/14	1
2-Chlorotoluene	95-49-8	U	0.38	0.50	1	ug/l		8260B	11/26/14	1
4-Chlorotoluene	106-43-4	U	0.35	0.50	1	ug/l		8260B	11/26/14	1
1,2-Dibromo-3-Chloropropane	96-12-8	U	1.3	2.5	5	ug/l		8260B	11/26/14	1

U = Not Detected at the LOD
Note:
The reported analytical results relate only to the sample submitted.
This report shall not be reproduced, except in full, without the written approval from ESC.
Reported: 12/03/14 10:12 Revised: 12/08/14 12:51
L735181-05 (ICP METALS) - Diluted due to matrix interference.
L735181-05 (GFAA METALS) - Non-target compounds too high to run at a lower dilution.

12065 Lebanon Rd.
Mt. Juliet, TN 37122
(615) 758-5858
1-800-767-5859
Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

Sheri Fling
URS
8181 E. Tufts Avenue
Denver, CO 80237

December 08, 2014

ESC Sample # : L735181-05

Site ID :

Project # : 23446543.0057AA

Date Received : November 21, 2014
Description : Holloman AFB

Sample ID : H-TU508-MW05-NT01

Collected By :
Collection Date : 11/19/14 10:00

Parameter	CAS#	Result	DL	LOD	LOQ	Units	Qual	Method	Date	Dil.
1,2-Dibromoethane	106-93-4	U	0.38	0.50	1	ug/l		8260B	11/26/14	1
Dibromomethane	74-95-3	U	0.35	0.50	1	ug/l		8260B	11/26/14	1
1,2-Dichlorobenzene	95-50-1	U	0.35	0.50	1	ug/l		8260B	11/26/14	1
1,3-Dichlorobenzene	541-73-1	U	0.22	0.50	1	ug/l		8260B	11/26/14	1
1,4-Dichlorobenzene	106-46-7	U	0.27	0.50	1	ug/l		8260B	11/26/14	1
Dichlorodifluoromethane	75-71-8	U	0.55	2.5	5	ug/l		8260B	11/26/14	1
1,1-Dichloroethane	75-34-3	2.2	0.26	0.50	1	ug/l		8260B	11/26/14	1
1,2-Dichloroethane	107-06-2	U	0.36	0.50	1	ug/l		8260B	11/26/14	1
1,1-Dichloroethene	75-35-4	18.	0.4	0.50	1	ug/l		8260B	11/26/14	1
cis-1,2-Dichloroethene	156-59-2	32.	0.26	0.50	1	ug/l		8260B	11/26/14	1
trans-1,2-Dichloroethene	156-60-5	0.58	0.4	0.50	1	ug/l	J	8260B	11/26/14	1
1,2-Dichloropropane	78-87-5	U	0.31	0.50	1	ug/l		8260B	11/26/14	1
1,1-Dichloropropene	563-58-6	U	0.35	0.50	1	ug/l		8260B	11/26/14	1
1,3-Dichloropropane	142-28-9	U	0.37	0.50	1	ug/l		8260B	11/26/14	1
cis-1,3-Dichloropropene	10061-01-5	U	0.42	0.50	1	ug/l		8260B	11/26/14	1
trans-1,3-Dichloropropene	10061-02-6	U	0.42	0.50	1	ug/l		8260B	11/26/14	1
2,2-Dichloropropane	594-20-7	U	0.32	0.50	1	ug/l		8260B	11/26/14	1
Ethylbenzene	100-41-4	U	0.38	0.50	1	ug/l		8260B	11/26/14	1
2-Hexanone	591-78-6	U	3.8	5.0	10	ug/l		8260B	11/26/14	1
Hexachloro-1,3-butadiene	87-68-3	U	0.26	0.50	1	ug/l		8260B	11/26/14	1
Isopropylbenzene	98-82-8	U	0.33	0.50	1	ug/l		8260B	11/26/14	1
p-Isopropyltoluene	99-87-6	U	0.35	0.50	1	ug/l		8260B	11/26/14	1
2-Butanone (MEK)	78-93-3	U	3.9	5.0	10	ug/l		8260B	11/26/14	1
Methylene Chloride	75-09-2	U	1	2.5	5	ug/l		8260B	11/26/14	1
4-Methyl-2-pentanone (MIBK)	108-10-1	U	2.1	5.0	10	ug/l		8260B	11/26/14	1
Methyl tert-butyl ether	1634-04-4	1.2	0.37	0.50	1	ug/l		8260B	11/26/14	1
Naphthalene	91-20-3	U	1	2.5	5	ug/l		8260B	11/26/14	1
n-Propylbenzene	103-65-1	U	0.35	0.50	1	ug/l		8260B	11/26/14	1
Styrene	100-42-5	U	0.31	0.50	1	ug/l		8260B	11/26/14	1
1,1,1,2-Tetrachloroethane	630-20-6	U	0.38	0.50	1	ug/l		8260B	11/26/14	1
1,1,2,2-Tetrachloroethane	79-34-5	U	0.58	0.75	1	ug/l		8260B	11/26/14	1
Tetrachloroethene	127-18-4	U	0.37	0.50	1	ug/l		8260B	11/26/14	1
Toluene	108-88-3	U	0.78	2.5	5	ug/l		8260B	11/26/14	1
1,2,3-Trichlorobenzene	87-61-6	U	0.23	0.50	1	ug/l		8260B	11/26/14	1
1,2,4-Trichlorobenzene	120-82-1	U	0.21	0.50	1	ug/l		8260B	11/26/14	1
1,1,1-Trichloroethane	71-55-6	U	0.319	0.50	1	ug/l		8260B	11/26/14	1
1,1,2-Trichloroethane	79-00-5	U	0.38	0.50	1	ug/l		8260B	11/26/14	1
Trichloroethene	79-01-6	3.9	0.4	0.50	1	ug/l		8260B	11/26/14	1
Trichlorofluoromethane	75-69-4	U	1.2	2.5	5	ug/l		8260B	11/26/14	1
1,2,3-Trichloropropane	96-18-4	U	0.81	1.0	2.5	ug/l		8260B	11/26/14	1
1,2,4-Trimethylbenzene	95-63-6	U	0.37	0.50	1	ug/l		8260B	11/26/14	1
1,3,5-Trimethylbenzene	108-67-8	U	0.39	0.50	1	ug/l		8260B	11/26/14	1
o-Xylene	95-47-6	U	0.34	0.50	1	ug/l		8260B	11/26/14	1
m&p-Xylene	1330-20-7	U	0.72	1.0	2	ug/l		8260B	11/26/14	1
Vinyl chloride	75-01-4	U	0.26	0.50	1	ug/l		8260B	11/26/14	1
Surrogate Recovery										

U = Not Detected at the LOD
Note:
The reported analytical results relate only to the sample submitted.
This report shall not be reproduced, except in full, without the written approval from ESC.
Reported: 12/03/14 10:12 Revised: 12/08/14 12:51
L735181-05 (ICP METALS) - Diluted due to matrix interference.
L735181-05 (GFAA METALS) - Non-target compounds too high to run at a lower dilution.

12065 Lebanon Rd.
Mt. Juliet, TN 37122
(615) 758-5858
1-800-767-5859
Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

Sheri Fling
URS
8181 E. Tufts Avenue
Denver, CO 80237

December 08, 2014

ESC Sample # : L735181-05

Date Received : November 21, 2014
Description : Holloman AFB

Site ID :

Sample ID : H-TU508-MW05-NT01

Project # : 23446543.0057AA

Collected By :
Collection Date : 11/19/14 10:00

Parameter	CAS#	Result	DL	LOD	LOQ	Units	Qual	Method	Date	Dil.
Toluene-d8	2037-26-5	99.6				% Rec.		8260B	11/26/14	1
Dibromofluoromethane	1868-53-7	99.4				% Rec.		8260B	11/26/14	1
4-Bromofluorobenzene	460-00-4	99.7				% Rec.		8260B	11/26/14	1
Diesel and Oil Ranges										
C10-C28 Diesel Range		580	22	33.	100	ug/l		8015	11/26/14	1
C28-C40 Oil Range		74.	12	33.	100	ug/l	J	8015	11/26/14	1
Surrogate Recovery										
o-Terphenyl	84-15-1	102.				% Rec.		8015	11/26/14	1
Polynuclear Aromatic Hydrocarbons										
Anthracene	120-12-7	U	0.013	0.025	0.05	ug/l		8270 C-	11/25/14	1
Acenaphthene	83-32-9	0.18	0.0082	0.025	0.05	ug/l		8270 C-	11/25/14	1
Acenaphthylene	208-96-8	0.036	0.011	0.025	0.05	ug/l	J	8270 C-	11/25/14	1
Benzo(a)anthracene	56-55-3	U	0.012	0.025	0.05	ug/l		8270 C-	11/25/14	1
Benzo(a)pyrene	50-32-8	U	0.016	0.025	0.05	ug/l		8270 C-	11/25/14	1
Benzo(b)fluoranthene	205-99-2	U	0.019	0.025	0.05	ug/l		8270 C-	11/25/14	1
Benzo(g,h,i)perylene	191-24-2	U	0.016	0.025	0.05	ug/l		8270 C-	11/25/14	1
Benzo(k)fluoranthene	207-08-9	U	0.026	0.035	0.05	ug/l		8270 C-	11/25/14	1
Chrysene	218-01-9	U	0.014	0.025	0.05	ug/l		8270 C-	11/25/14	1
Dibenz(a,h)anthracene	53-70-3	U	0.0045	0.025	0.05	ug/l		8270 C-	11/25/14	1
Fluoranthene	206-44-0	U	0.016	0.025	0.05	ug/l		8270 C-	11/25/14	1
Fluorene	86-73-7	0.082	0.009	0.025	0.05	ug/l		8270 C-	11/25/14	1
Indeno(1,2,3-cd)pyrene	193-39-5	U	0.0074	0.025	0.05	ug/l		8270 C-	11/25/14	1
Naphthalene	91-20-3	0.12	0.012	0.025	0.25	ug/l	J	8270 C-	11/25/14	1
Phenanthrene	85-01-8	U	0.018	0.025	0.05	ug/l		8270 C-	11/25/14	1
Pyrene	129-00-0	U	0.016	0.025	0.05	ug/l		8270 C-	11/25/14	1
2-Methylnaphthalene	91-57-6	U	0.016	0.025	0.25	ug/l		8270 C-	11/25/14	1
Surrogate Recovery										
Nitrobenzene-d5	4165-60-0	54.4				% Rec.		8270 C-	11/25/14	1
2-Fluorobiphenyl	321-60-8	53.8				% Rec.		8270 C-	11/25/14	1
p-Terphenyl-d14	1718-51-0	65.8				% Rec.		8270 C-	11/25/14	1
Base/Neutral Extractables										
Bis(2-chlorethoxy)methane	111-91-1	U	0.33	5.0	10	ug/l		8270C	11/26/14	1
Bis(2-chloroethyl)ether	111-44-4	U	1.6	5.0	10	ug/l		8270C	11/26/14	1
Bis(2-chloroisopropyl)ether	108-60-1	U	0.44	5.0	10	ug/l		8270C	11/26/14	1
Benzyl Alcohol	100-51-6	U	0.39	5.0	10	ug/l		8270C	11/26/14	1
Carbazole	86-74-8	U	0.16	5.0	10	ug/l		8270C	11/26/14	1
Benzoic acid	65-85-0	1.4	0.44	5.0	10	ug/l	J	8270C	11/26/14	1
Dibenzofuran	132-64-9	0.64	0.34	5.0	10	ug/l	J	8270C	11/26/14	1
4-Bromophenyl-phenylether	101-55-3	U	0.36	5.0	10	ug/l		8270C	11/26/14	1
2-Chloronaphthalene	91-58-7	U	0.33	0.50	1	ug/l		8270C	11/26/14	1
4-Chlorophenyl-phenylether	7005-72-3	U	0.3	5.0	10	ug/l		8270C	11/26/14	1
3,3-Dichlorobenzidine	91-94-1	U	2	5.0	10	ug/l		8270C	11/26/14	1
2,4-Dinitrotoluene	121-14-2	U	1.6	5.0	10	ug/l		8270C	11/26/14	1

U = Not Detected at the LOD
Note:
The reported analytical results relate only to the sample submitted.
This report shall not be reproduced, except in full, without the written approval from ESC.
Reported: 12/03/14 10:12 Revised: 12/08/14 12:51
L735181-05 (ICP METALS) - Diluted due to matrix interference.
L735181-05 (GFAA METALS) - Non-target compounds too high to run at a lower dilution.

12065 Lebanon Rd.
Mt. Juliet, TN 37122
(615) 758-5858
1-800-767-5859
Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

Sheri Fling
URS
8181 E. Tufts Avenue
Denver, CO 80237

December 08, 2014

ESC Sample # : L735181-05

Date Received : November 21, 2014
Description : Holloman AFB

Site ID :

Sample ID : H-TU508-MW05-NT01

Project # : 23446543.0057AA

Collected By :
Collection Date : 11/19/14 10:00

Parameter	CAS#	Result	DL	LOD	LOQ	Units	Qual	Method	Date	Dil.
2,6-Dinitrotoluene	606-20-2	U	0.28	5.0	10	ug/l		8270C	11/26/14	1
Hexachlorobenzene	118-74-1	U	0.34	0.50	1	ug/l		8270C	11/26/14	1
Hexachloro-1,3-butadiene	87-68-3	U	0.33	5.0	10	ug/l		8270C	11/26/14	1
Hexachloroethane	67-72-1	U	0.36	5.0	10	ug/l		8270C	11/26/14	1
Isophorone	78-59-1	U	0.27	5.0	10	ug/l		8270C	11/26/14	1
Nitrobenzene	98-95-3	U	0.37	5.0	10	ug/l		8270C	11/26/14	1
n-Nitrosodimethylamine	62-75-9	U	1.3	5.0	10	ug/l		8270C	11/26/14	1
n-Nitrosodiphenylamine	86-30-6	U	0.3	5.0	10	ug/l		8270C	11/26/14	1
n-Nitrosodi-n-propylamine	621-64-7	U	0.4	5.0	10	ug/l		8270C	11/26/14	1
Benzylbutyl phthalate	85-68-7	U	0.28	1.0	3	ug/l		8270C	11/26/14	1
Bis(2-ethylhexyl)phthalate	117-81-7	U	0.71	1.0	3	ug/l		8270C	11/26/14	1
Di-n-butyl phthalate	84-74-2	U	0.27	1.0	3	ug/l		8270C	11/26/14	1
Diethyl phthalate	84-66-2	U	0.28	1.0	3	ug/l		8270C	11/26/14	1
Dimethyl phthalate	131-11-3	U	0.28	1.0	3	ug/l		8270C	11/26/14	1
Di-n-octyl phthalate	117-84-0	U	0.28	1.0	3	ug/l		8270C	11/26/14	1
1,2,4-Trichlorobenzene	120-82-1	U	0.36	5.0	10	ug/l		8270C	11/26/14	1
Acid Extractables										
4-Chloro-3-methylphenol	59-50-7	U	0.26	5.0	10	ug/l		8270C	11/26/14	1
2-Chlorophenol	95-57-8	U	0.28	5.0	10	ug/l		8270C	11/26/14	1
2,4-Dichlorophenol	120-83-2	U	0.28	5.0	10	ug/l		8270C	11/26/14	1
2,4-Dimethylphenol	105-67-9	U	0.62	5.0	10	ug/l		8270C	11/26/14	1
4,6-Dinitro-2-methylphenol	534-52-1	U	2.6	5.0	10	ug/l		8270C	11/26/14	1
2,4-Dinitrophenol	51-28-5	U	3.2	5.0	10	ug/l		8270C	11/26/14	1
2-Methylphenol	95-48-7	U	0.31	5.0	10	ug/l		8270C	11/26/14	1
3&4-Methyl Phenol	3&4-Methyl	U	0.27	5.0	10	ug/l		8270C	11/26/14	1
2-Nitrophenol	88-75-5	U	0.32	5.0	10	ug/l		8270C	11/26/14	1
4-Nitrophenol	100-02-7	U	2	5.0	10	ug/l		8270C	11/26/14	1
4-Chloroaniline	106-47-8	U	0.38	5.0	10	ug/l		8270C	11/26/14	1
2-Nitroaniline	88-74-4	U	1.9	5.0	10	ug/l		8270C	11/26/14	1
3-Nitroaniline	99-09-2	U	0.31	5.0	10	ug/l		8270C	11/26/14	1
1,2-Diphenylhydrazine	103-33-3	U	0.32	5.0	10	ug/l		8270C	11/26/14	1
4-Nitroaniline	100-01-6	U	0.35	5.0	10	ug/l		8270C	11/26/14	1
Pentachlorophenol	87-86-5	U	0.31	5.0	10	ug/l		8270C	11/26/14	1
Phenol	108-95-2	U	0.33	5.0	10	ug/l		8270C	11/26/14	1
2,4,5-Trichlorophenol	95-95-4	U	0.24	5.0	10	ug/l		8270C	11/26/14	1
2,4,6-Trichlorophenol	88-06-2	U	0.3	5.0	10	ug/l		8270C	11/26/14	1
Surrogate Recovery										
2-Fluorophenol	367-12-4	46.7				% Rec.		8270C	11/26/14	1
Phenol-d5	4165-62-2	35.9				% Rec.		8270C	11/26/14	1
Nitrobenzene-d5	4165-60-0	72.0				% Rec.		8270C	11/26/14	1
2-Fluorobiphenyl	321-60-8	76.9				% Rec.		8270C	11/26/14	1
2,4,6-Tribromophenol	118-79-6	69.6				% Rec.		8270C	11/26/14	1
p-Terphenyl-d14	1718-51-0	67.6				% Rec.		8270C	11/26/14	1

U = Not Detected at the LOD
Note:
The reported analytical results relate only to the sample submitted.
This report shall not be reproduced, except in full, without the written approval from ESC.
Reported: 12/03/14 10:12 Revised: 12/08/14 12:51
L735181-05 (ICP METALS) - Diluted due to matrix interference.
L735181-05 (GFAA METALS) - Non-target compounds too high to run at a lower dilution.

12065 Lebanon Rd.
Mt. Juliet, TN 37122
(615) 758-5858
1-800-767-5859
Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

Sheri Fling
URS
8181 E. Tufts Avenue
Denver, CO 80237

December 08, 2014

ESC Sample # : L735181-06

Date Received : November 21, 2014
Description : Holloman AFB

Site ID :

Sample ID : H-TU508-MW04-ND01

Project # : 23446543.0057AA

Collected By :
Collection Date : 11/19/14 11:00

Parameter	CAS#	Result	DL	LOD	LOQ	Units	Qual	Method	Date	Dil.
Antimony,Dissolved	7440-36-0	U	1	2.5	10	ug/l		6020	11/28/14	5
Arsenic,Dissolved	7440-38-2	14.	1.2	2.5	10	ug/l		6020	11/28/14	5
Cadmium,Dissolved	7440-43-9	U	0.8	2.5	5	ug/l		6020	11/28/14	5
Chromium,Dissolved	7440-47-3	U	2.7	7.5	10	ug/l		6020	11/28/14	5
Cobalt,Dissolved	7440-48-4	1.6	1.3	2.5	10	ug/l	J	6020	11/28/14	5
Lead,Dissolved	7439-92-1	U	1.2	2.5	10	ug/l		6020	11/28/14	5
Nickel,Dissolved	7440-02-0	6.1	1.8	5.0	10	ug/l	J	6020	11/28/14	5
Selenium,Dissolved	7782-49-2	3.2	1.9	5.0	10	ug/l	J	6020	11/28/14	5
Silver,Dissolved	7440-22-4	U	1.6	2.5	10	ug/l		6020	11/28/14	5
Thallium,Dissolved	7440-28-0	U	0.95	2.5	10	ug/l		6020	11/28/14	5
Mercury,Dissolved	7439-97-6	U	0.049	0.080	0.2	ug/l		7470A	11/24/14	1
Aluminum,Dissolved	7429-90-5	860	180	250	500	ug/l		6010B	11/26/14	5
Barium,Dissolved	7440-39-3	62.	8.5	13.	25	ug/l		6010B	11/26/14	5
Beryllium,Dissolved	7440-41-7	U	3.5	5.0	10	ug/l		6010B	11/26/14	5
Copper,Dissolved	7440-50-8	U	26	50.	100	ug/l		6010B	11/26/14	5
Manganese,Dissolved	7439-96-5	230	6	25.	50	ug/l		6010B	11/26/14	5
Vanadium,Dissolved	7440-62-2	120	12	50.	100	ug/l		6010B	11/26/14	5
Zinc,Dissolved	7440-66-6	U	30	130	250	ug/l		6010B	11/26/14	5

U = Not Detected at the LOD
Note:
The reported analytical results relate only to the sample submitted.
This report shall not be reproduced, except in full, without the written approval from ESC.
Reported: 12/03/14 10:12 Revised: 12/08/14 12:51
L735181-06 (ICP METALS) - Diluted due to matrix interference.
L735181-06 (GFAA METALS) - Non-target compounds too high to run at a lower dilution.

12065 Lebanon Rd.
Mt. Juliet, TN 37122
(615) 758-5858
1-800-767-5859
Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

Sheri Fling
URS
8181 E. Tufts Avenue
Denver, CO 80237

December 08, 2014

ESC Sample # : L735181-07

Date Received : November 21, 2014
Description : Holloman AFB

Site ID :

Sample ID : H-TU508-MW04-NT01

Project # : 23446543.0057AA

Collected By :
Collection Date : 11/19/14 11:00

Parameter	CAS#	Result	DL	LOD	LOQ	Units	Qual	Method	Date	Dil.
Antimony	7440-36-0	0.43	0.21	0.50	2	ug/l	J	6020	12/01/14	1
Arsenic	7440-38-2	30.	1.2	2.5	10	ug/l		6020	11/28/14	5
Cadmium	7440-43-9	U	0.8	2.5	5	ug/l		6020	11/28/14	5
Chromium	7440-47-3	20.	2.7	7.5	10	ug/l		6020	11/28/14	5
Cobalt	7440-48-4	7.8	1.3	2.5	10	ug/l	J	6020	11/28/14	5
Lead	7439-92-1	9.0	1.2	2.5	10	ug/l	J	6020	12/02/14	5
Nickel	7440-02-0	16.	0.35	1.0	2	ug/l		6020	12/01/14	1
Selenium	7782-49-2	14.	1.9	5.0	10	ug/l		6020	11/28/14	5
Silver	7440-22-4	U	1.6	2.5	10	ug/l		6020	11/28/14	5
Thallium	7440-28-0	U	0.95	2.5	10	ug/l		6020	11/28/14	5
Mercury	7439-97-6	U	0.049	0.080	0.2	ug/l		7470A	11/22/14	1
Aluminum	7429-90-5	6100	180	250	500	ug/l		6010B	11/28/14	5
Barium	7440-39-3	150	8.5	13.	25	ug/l		6010B	11/28/14	5
Beryllium	7440-41-7	U	3.5	5.0	10	ug/l		6010B	11/28/14	5
Copper	7440-50-8	U	26	50.	100	ug/l		6010B	11/28/14	5
Manganese	7439-96-5	350	6	25.	50	ug/l		6010B	11/28/14	5
Vanadium	7440-62-2	140	12	50.	100	ug/l		6010B	11/28/14	5
Zinc	7440-66-6	U	30	130	250	ug/l		6010B	11/28/14	5
TPH (GC/FID) Low Fraction	8006-61-9	U	31	50.	100	ug/l		8015D/G	11/26/14	1
Surrogate Recovery-%										
a,a,a-Trifluorotoluene(FID)	98-08-8	99.6				% Rec.		8015D/G	11/26/14	1
Volatile Organics										
Acetone	67-64-1	U	10	25.	50	ug/l		8260B	11/26/14	1
Benzene	71-43-2	U	0.33	0.50	1	ug/l		8260B	11/26/14	1
Bromobenzene	108-86-1	U	0.35	0.50	1	ug/l		8260B	11/26/14	1
Bromochloromethane	74-97-5	U	0.52	0.75	1	ug/l		8260B	11/26/14	1
Bromodichloromethane	75-27-4	U	0.38	0.50	1	ug/l		8260B	11/26/14	1
Bromoform	75-25-2	U	0.47	0.50	1	ug/l		8260B	11/26/14	1
Bromomethane	74-83-9	U	0.87	2.5	5	ug/l		8260B	11/26/14	1
n-Butylbenzene	104-51-8	U	0.36	0.50	1	ug/l		8260B	11/26/14	1
sec-Butylbenzene	135-98-8	U	0.36	0.50	1	ug/l		8260B	11/26/14	1
tert-Butylbenzene	98-06-6	U	0.4	0.50	1	ug/l		8260B	11/26/14	1
Carbon Disulfide	75-15-0	U	0.28	0.50	1	ug/l		8260B	11/26/14	1
Carbon tetrachloride	56-23-5	U	0.38	0.50	1	ug/l		8260B	11/26/14	1
Chlorobenzene	108-90-7	U	0.35	0.50	1	ug/l		8260B	11/26/14	1
Chlorodibromomethane	124-48-1	U	0.33	0.50	1	ug/l		8260B	11/26/14	1
Chloroethane	75-00-3	U	0.45	2.5	5	ug/l		8260B	11/26/14	1
Chloroform	67-66-3	U	0.32	2.5	5	ug/l		8260B	11/26/14	1
Chloromethane	74-87-3	U	0.28	0.50	2.5	ug/l		8260B	11/26/14	1
2-Chlorotoluene	95-49-8	U	0.38	0.50	1	ug/l		8260B	11/26/14	1
4-Chlorotoluene	106-43-4	U	0.35	0.50	1	ug/l		8260B	11/26/14	1
1,2-Dibromo-3-Chloropropane	96-12-8	U	1.3	2.5	5	ug/l		8260B	11/26/14	1

U = Not Detected at the LOD
Note:
The reported analytical results relate only to the sample submitted.
This report shall not be reproduced, except in full, without the written approval from ESC.
Reported: 12/03/14 10:12 Revised: 12/08/14 12:51
L735181-07 (ICP METALS) - Diluted due to matrix interference.
L735181-07 (GFAA METALS) - Non-target compounds too high to run at a lower dilution.

12065 Lebanon Rd.
Mt. Juliet, TN 37122
(615) 758-5858
1-800-767-5859
Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

Sheri Fling
URS
8181 E. Tufts Avenue
Denver, CO 80237

December 08, 2014

ESC Sample # : L735181-07

Date Received : November 21, 2014
Description : Holloman AFB

Site ID :

Sample ID : H-TU508-MW04-NT01

Project # : 23446543.0057AA

Collected By :
Collection Date : 11/19/14 11:00

Parameter	CAS#	Result	DL	LOD	LOQ	Units	Qual	Method	Date	Dil.
1,2-Dibromoethane	106-93-4	U	0.38	0.50	1	ug/l		8260B	11/26/14	1
Dibromomethane	74-95-3	U	0.35	0.50	1	ug/l		8260B	11/26/14	1
1,2-Dichlorobenzene	95-50-1	U	0.35	0.50	1	ug/l		8260B	11/26/14	1
1,3-Dichlorobenzene	541-73-1	U	0.22	0.50	1	ug/l		8260B	11/26/14	1
1,4-Dichlorobenzene	106-46-7	U	0.27	0.50	1	ug/l		8260B	11/26/14	1
Dichlorodifluoromethane	75-71-8	U	0.55	2.5	5	ug/l		8260B	11/26/14	1
1,1-Dichloroethane	75-34-3	0.73	0.26	0.50	1	ug/l	J	8260B	11/26/14	1
1,2-Dichloroethane	107-06-2	U	0.36	0.50	1	ug/l		8260B	11/26/14	1
1,1-Dichloroethene	75-35-4	6.4	0.4	0.50	1	ug/l		8260B	11/26/14	1
cis-1,2-Dichloroethene	156-59-2	U	0.26	0.50	1	ug/l		8260B	11/26/14	1
trans-1,2-Dichloroethene	156-60-5	U	0.4	0.50	1	ug/l		8260B	11/26/14	1
1,2-Dichloropropane	78-87-5	U	0.31	0.50	1	ug/l		8260B	11/26/14	1
1,1-Dichloropropene	563-58-6	U	0.35	0.50	1	ug/l		8260B	11/26/14	1
1,3-Dichloropropane	142-28-9	U	0.37	0.50	1	ug/l		8260B	11/26/14	1
cis-1,3-Dichloropropene	10061-01-5	U	0.42	0.50	1	ug/l		8260B	11/26/14	1
trans-1,3-Dichloropropene	10061-02-6	U	0.42	0.50	1	ug/l		8260B	11/26/14	1
2,2-Dichloropropane	594-20-7	U	0.32	0.50	1	ug/l		8260B	11/26/14	1
Ethylbenzene	100-41-4	U	0.38	0.50	1	ug/l		8260B	11/26/14	1
2-Hexanone	591-78-6	U	3.8	5.0	10	ug/l		8260B	11/26/14	1
Hexachloro-1,3-butadiene	87-68-3	U	0.26	0.50	1	ug/l		8260B	11/26/14	1
Isopropylbenzene	98-82-8	U	0.33	0.50	1	ug/l		8260B	11/26/14	1
p-Isopropyltoluene	99-87-6	U	0.35	0.50	1	ug/l		8260B	11/26/14	1
2-Butanone (MEK)	78-93-3	U	3.9	5.0	10	ug/l		8260B	11/26/14	1
Methylene Chloride	75-09-2	U	1	2.5	5	ug/l		8260B	11/26/14	1
4-Methyl-2-pentanone (MIBK)	108-10-1	U	2.1	5.0	10	ug/l		8260B	11/26/14	1
Methyl tert-butyl ether	1634-04-4	U	0.37	0.50	1	ug/l		8260B	11/26/14	1
Naphthalene	91-20-3	U	1	2.5	5	ug/l		8260B	11/26/14	1
n-Propylbenzene	103-65-1	U	0.35	0.50	1	ug/l		8260B	11/26/14	1
Styrene	100-42-5	U	0.31	0.50	1	ug/l		8260B	11/26/14	1
1,1,1,2-Tetrachloroethane	630-20-6	U	0.38	0.50	1	ug/l		8260B	11/26/14	1
1,1,2,2-Tetrachloroethane	79-34-5	U	0.58	0.75	1	ug/l		8260B	11/26/14	1
Tetrachloroethene	127-18-4	0.99	0.37	0.50	1	ug/l	J	8260B	11/26/14	1
Toluene	108-88-3	U	0.78	2.5	5	ug/l		8260B	11/26/14	1
1,2,3-Trichlorobenzene	87-61-6	U	0.23	0.50	1	ug/l		8260B	11/26/14	1
1,2,4-Trichlorobenzene	120-82-1	U	0.21	0.50	1	ug/l		8260B	11/26/14	1
1,1,1-Trichloroethane	71-55-6	U	0.319	0.50	1	ug/l		8260B	11/26/14	1
1,1,2-Trichloroethane	79-00-5	U	0.38	0.50	1	ug/l		8260B	11/26/14	1
Trichloroethene	79-01-6	U	0.4	0.50	1	ug/l		8260B	11/26/14	1
Trichlorofluoromethane	75-69-4	U	1.2	2.5	5	ug/l		8260B	11/26/14	1
1,2,3-Trichloropropane	96-18-4	U	0.81	1.0	2.5	ug/l		8260B	11/26/14	1
1,2,4-Trimethylbenzene	95-63-6	U	0.37	0.50	1	ug/l		8260B	11/26/14	1
1,3,5-Trimethylbenzene	108-67-8	U	0.39	0.50	1	ug/l		8260B	11/26/14	1
o-Xylene	95-47-6	U	0.34	0.50	1	ug/l		8260B	11/26/14	1
m&p-Xylene	1330-20-7	U	0.72	1.0	2	ug/l		8260B	11/26/14	1
Vinyl chloride	75-01-4	U	0.26	0.50	1	ug/l		8260B	11/26/14	1
Surrogate Recovery										

U = Not Detected at the LOD
Note:
The reported analytical results relate only to the sample submitted.
This report shall not be reproduced, except in full, without the written approval from ESC.
Reported: 12/03/14 10:12 Revised: 12/08/14 12:51
L735181-07 (ICP METALS) - Diluted due to matrix interference.
L735181-07 (GFAA METALS) - Non-target compounds too high to run at a lower dilution.

12065 Lebanon Rd.
Mt. Juliet, TN 37122
(615) 758-5858
1-800-767-5859
Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

Sheri Fling
URS
8181 E. Tufts Avenue
Denver, CO 80237

December 08, 2014

ESC Sample # : L735181-07

Date Received : November 21, 2014
Description : Holloman AFB

Site ID :

Sample ID : H-TU508-MW04-NT01

Project # : 23446543.0057AA

Collected By :
Collection Date : 11/19/14 11:00

Parameter	CAS#	Result	DL	LOD	LOQ	Units	Qual	Method	Date	Dil.
Toluene-d8	2037-26-5	100.				% Rec.		8260B	11/26/14	1
Dibromofluoromethane	1868-53-7	103.				% Rec.		8260B	11/26/14	1
4-Bromofluorobenzene	460-00-4	97.9				% Rec.		8260B	11/26/14	1
Diesel and Oil Ranges										
C10-C28 Diesel Range		150	22	33.	100	ug/l		8015	11/26/14	1
C28-C40 Oil Range		42.	12	33.	100	ug/l	J	8015	11/26/14	1
Surrogate Recovery										
o-Terphenyl	84-15-1	103.				% Rec.		8015	11/26/14	1
Polynuclear Aromatic Hydrocarbons										
Anthracene	120-12-7	U	0.013	0.025	0.05	ug/l		8270 C-	11/25/14	1
Acenaphthene	83-32-9	U	0.0082	0.025	0.05	ug/l		8270 C-	11/25/14	1
Acenaphthylene	208-96-8	U	0.011	0.025	0.05	ug/l		8270 C-	11/25/14	1
Benzo(a)anthracene	56-55-3	U	0.012	0.025	0.05	ug/l		8270 C-	11/25/14	1
Benzo(a)pyrene	50-32-8	U	0.016	0.025	0.05	ug/l		8270 C-	11/25/14	1
Benzo(b)fluoranthene	205-99-2	U	0.019	0.025	0.05	ug/l		8270 C-	11/25/14	1
Benzo(g,h,i)perylene	191-24-2	U	0.016	0.025	0.05	ug/l		8270 C-	11/25/14	1
Benzo(k)fluoranthene	207-08-9	U	0.026	0.035	0.05	ug/l		8270 C-	11/25/14	1
Chrysene	218-01-9	U	0.014	0.025	0.05	ug/l		8270 C-	11/25/14	1
Dibenz(a,h)anthracene	53-70-3	U	0.0045	0.025	0.05	ug/l		8270 C-	11/25/14	1
Fluoranthene	206-44-0	U	0.016	0.025	0.05	ug/l		8270 C-	11/25/14	1
Fluorene	86-73-7	U	0.009	0.025	0.05	ug/l		8270 C-	11/25/14	1
Indeno(1,2,3-cd)pyrene	193-39-5	U	0.0074	0.025	0.05	ug/l		8270 C-	11/25/14	1
Naphthalene	91-20-3	0.014	0.012	0.025	0.25	ug/l	J	8270 C-	11/25/14	1
Phenanthrene	85-01-8	U	0.018	0.025	0.05	ug/l		8270 C-	11/25/14	1
Pyrene	129-00-0	U	0.016	0.025	0.05	ug/l		8270 C-	11/25/14	1
2-Methylnaphthalene	91-57-6	U	0.016	0.025	0.25	ug/l		8270 C-	11/25/14	1
Surrogate Recovery										
Nitrobenzene-d5	4165-60-0	53.5				% Rec.		8270 C-	11/25/14	1
2-Fluorobiphenyl	321-60-8	51.1				% Rec.		8270 C-	11/25/14	1
p-Terphenyl-d14	1718-51-0	68.6				% Rec.		8270 C-	11/25/14	1
Base/Neutral Extractables										
Bis(2-chlorethoxy)methane	111-91-1	U	0.33	5.0	10	ug/l		8270C	11/26/14	1
Bis(2-chloroethyl)ether	111-44-4	U	1.6	5.0	10	ug/l		8270C	11/26/14	1
Bis(2-chloroisopropyl)ether	108-60-1	U	0.44	5.0	10	ug/l		8270C	11/26/14	1
Benzyl Alcohol	100-51-6	U	0.39	5.0	10	ug/l		8270C	11/26/14	1
Carbazole	86-74-8	U	0.16	5.0	10	ug/l		8270C	11/26/14	1
Benzoic acid	65-85-0	U	0.44	5.0	10	ug/l		8270C	11/26/14	1
Dibenzofuran	132-64-9	U	0.34	5.0	10	ug/l		8270C	11/26/14	1
4-Bromophenyl-phenylether	101-55-3	U	0.36	5.0	10	ug/l		8270C	11/26/14	1
2-Chloronaphthalene	91-58-7	U	0.33	0.50	1	ug/l		8270C	11/26/14	1
4-Chlorophenyl-phenylether	7005-72-3	U	0.3	5.0	10	ug/l		8270C	11/26/14	1
3,3-Dichlorobenzidine	91-94-1	U	2	5.0	10	ug/l		8270C	11/26/14	1
2,4-Dinitrotoluene	121-14-2	U	1.6	5.0	10	ug/l		8270C	11/26/14	1

U = Not Detected at the LOD
Note:
The reported analytical results relate only to the sample submitted.
This report shall not be reproduced, except in full, without the written approval from ESC.
Reported: 12/03/14 10:12 Revised: 12/08/14 12:51
L735181-07 (ICP METALS) - Diluted due to matrix interference.
L735181-07 (GFAA METALS) - Non-target compounds too high to run at a lower dilution.

12065 Lebanon Rd.
Mt. Juliet, TN 37122
(615) 758-5858
1-800-767-5859
Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

Sheri Fling
URS
8181 E. Tufts Avenue
Denver, CO 80237

December 08, 2014

ESC Sample # : L735181-07

Date Received : November 21, 2014
Description : Holloman AFB

Site ID :

Sample ID : H-TU508-MW04-NT01

Project # : 23446543.0057AA

Collected By :
Collection Date : 11/19/14 11:00

Parameter	CAS#	Result	DL	LOD	LOQ	Units	Qual	Method	Date	Dil.
2,6-Dinitrotoluene	606-20-2	U	0.28	5.0	10	ug/l		8270C	11/26/14	1
Hexachlorobenzene	118-74-1	U	0.34	0.50	1	ug/l		8270C	11/26/14	1
Hexachloro-1,3-butadiene	87-68-3	U	0.33	5.0	10	ug/l		8270C	11/26/14	1
Hexachloroethane	67-72-1	U	0.36	5.0	10	ug/l		8270C	11/26/14	1
Isophorone	78-59-1	U	0.27	5.0	10	ug/l		8270C	11/26/14	1
Nitrobenzene	98-95-3	U	0.37	5.0	10	ug/l		8270C	11/26/14	1
n-Nitrosodimethylamine	62-75-9	U	1.3	5.0	10	ug/l		8270C	11/26/14	1
n-Nitrosodiphenylamine	86-30-6	U	0.3	5.0	10	ug/l		8270C	11/26/14	1
n-Nitrosodi-n-propylamine	621-64-7	U	0.4	5.0	10	ug/l		8270C	11/26/14	1
Benzylbutyl phthalate	85-68-7	U	0.28	1.0	3	ug/l		8270C	11/26/14	1
Bis(2-ethylhexyl)phthalate	117-81-7	U	0.71	1.0	3	ug/l		8270C	11/26/14	1
Di-n-butyl phthalate	84-74-2	U	0.27	1.0	3	ug/l		8270C	11/26/14	1
Diethyl phthalate	84-66-2	0.59	0.28	1.0	3	ug/l	J	8270C	11/26/14	1
Dimethyl phthalate	131-11-3	U	0.28	1.0	3	ug/l		8270C	11/26/14	1
Di-n-octyl phthalate	117-84-0	U	0.28	1.0	3	ug/l		8270C	11/26/14	1
1,2,4-Trichlorobenzene	120-82-1	U	0.36	5.0	10	ug/l		8270C	11/26/14	1
Acid Extractables										
4-Chloro-3-methylphenol	59-50-7	U	0.26	5.0	10	ug/l		8270C	11/26/14	1
2-Chlorophenol	95-57-8	U	0.28	5.0	10	ug/l		8270C	11/26/14	1
2,4-Dichlorophenol	120-83-2	U	0.28	5.0	10	ug/l		8270C	11/26/14	1
2,4-Dimethylphenol	105-67-9	U	0.62	5.0	10	ug/l		8270C	11/26/14	1
4,6-Dinitro-2-methylphenol	534-52-1	U	2.6	5.0	10	ug/l		8270C	11/26/14	1
2,4-Dinitrophenol	51-28-5	U	3.2	5.0	10	ug/l		8270C	11/26/14	1
2-Methylphenol	95-48-7	U	0.31	5.0	10	ug/l		8270C	11/26/14	1
3&4-Methyl Phenol	3&4-Methyl	U	0.27	5.0	10	ug/l		8270C	11/26/14	1
2-Nitrophenol	88-75-5	U	0.32	5.0	10	ug/l		8270C	11/26/14	1
4-Nitrophenol	100-02-7	U	2	5.0	10	ug/l		8270C	11/26/14	1
4-Chloroaniline	106-47-8	U	0.38	5.0	10	ug/l		8270C	11/26/14	1
2-Nitroaniline	88-74-4	U	1.9	5.0	10	ug/l		8270C	11/26/14	1
3-Nitroaniline	99-09-2	U	0.31	5.0	10	ug/l		8270C	11/26/14	1
1,2-Diphenylhydrazine	103-33-3	U	0.32	5.0	10	ug/l		8270C	11/26/14	1
4-Nitroaniline	100-01-6	U	0.35	5.0	10	ug/l		8270C	11/26/14	1
Pentachlorophenol	87-86-5	U	0.31	5.0	10	ug/l		8270C	11/26/14	1
Phenol	108-95-2	U	0.33	5.0	10	ug/l		8270C	11/26/14	1
2,4,5-Trichlorophenol	95-95-4	U	0.24	5.0	10	ug/l		8270C	11/26/14	1
2,4,6-Trichlorophenol	88-06-2	U	0.3	5.0	10	ug/l		8270C	11/26/14	1
Surrogate Recovery										
2-Fluorophenol	367-12-4	49.7				% Rec.		8270C	11/26/14	1
Phenol-d5	4165-62-2	39.6				% Rec.		8270C	11/26/14	1
Nitrobenzene-d5	4165-60-0	66.5				% Rec.		8270C	11/26/14	1
2-Fluorobiphenyl	321-60-8	72.9				% Rec.		8270C	11/26/14	1
2,4,6-Tribromophenol	118-79-6	61.4				% Rec.		8270C	11/26/14	1
p-Terphenyl-d14	1718-51-0	68.0				% Rec.		8270C	11/26/14	1

U = Not Detected at the LOD
Note:
The reported analytical results relate only to the sample submitted.
This report shall not be reproduced, except in full, without the written approval from ESC.
Reported: 12/03/14 10:12 Revised: 12/08/14 12:51
L735181-07 (ICP METALS) - Diluted due to matrix interference.
L735181-07 (GFAA METALS) - Non-target compounds too high to run at a lower dilution.

12065 Lebanon Rd.
Mt. Juliet, TN 37122
(615) 758-5858
1-800-767-5859
Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

Sheri Fling
URS
8181 E. Tufts Avenue
Denver, CO 80237

December 08, 2014

ESC Sample # : L735181-08

Date Received : November 22, 2014
Description : Holloman AFB

Site ID :

Sample ID : H-TU508-MW07-NT01

Project # : 23446543.0057AA

Collected By :
Collection Date : 11/21/14 08:51

Parameter	CAS#	Result	DL	LOD	LOQ	Units	Qual	Method	Date	Dil.
Antimony	7440-36-0	0.23	0.21	0.50	2	ug/l	J	6020	12/01/14	1
Arsenic	7440-38-2	45.	1.2	2.5	10	ug/l		6020	11/28/14	5
Cadmium	7440-43-9	U	0.8	2.5	5	ug/l		6020	11/28/14	5
Chromium	7440-47-3	10.	2.7	7.5	10	ug/l		6020	11/28/14	5
Cobalt	7440-48-4	6.7	1.3	2.5	10	ug/l	J	6020	11/28/14	5
Lead	7439-92-1	5.1	1.2	2.5	10	ug/l	J	6020	12/02/14	5
Nickel	7440-02-0	11.	0.35	1.0	2	ug/l		6020	12/01/14	1
Selenium	7782-49-2	3.4	1.9	5.0	10	ug/l	J	6020	11/28/14	5
Silver	7440-22-4	U	1.6	2.5	10	ug/l		6020	11/28/14	5
Thallium	7440-28-0	U	0.95	2.5	10	ug/l		6020	11/28/14	5
Mercury	7439-97-6	U	0.049	0.080	0.2	ug/l		7470A	11/25/14	1
Aluminum	7429-90-5	4100	180	250	500	ug/l		6010B	11/28/14	5
Barium	7440-39-3	160	8.5	13.	25	ug/l		6010B	11/28/14	5
Beryllium	7440-41-7	U	3.5	5.0	10	ug/l		6010B	11/28/14	5
Copper	7440-50-8	U	26	50.	100	ug/l		6010B	11/28/14	5
Manganese	7439-96-5	700	6	25.	50	ug/l		6010B	11/28/14	5
Vanadium	7440-62-2	32.	12	50.	100	ug/l	J	6010B	11/28/14	5
Zinc	7440-66-6	U	30	130	250	ug/l		6010B	11/28/14	5
Polynuclear Aromatic Hydrocarbons										
Anthracene	120-12-7	U	0.013	0.025	0.05	ug/l		8270 C-	11/25/14	1
Acenaphthene	83-32-9	U	0.0082	0.025	0.05	ug/l		8270 C-	11/25/14	1
Acenaphthylene	208-96-8	U	0.011	0.025	0.05	ug/l		8270 C-	11/25/14	1
Benzo(a)anthracene	56-55-3	U	0.012	0.025	0.05	ug/l		8270 C-	11/25/14	1
Benzo(a)pyrene	50-32-8	U	0.016	0.025	0.05	ug/l		8270 C-	11/25/14	1
Benzo(b)fluoranthene	205-99-2	U	0.019	0.025	0.05	ug/l		8270 C-	11/25/14	1
Benzo(g,h,i)perylene	191-24-2	U	0.016	0.025	0.05	ug/l		8270 C-	11/25/14	1
Benzo(k)fluoranthene	207-08-9	U	0.026	0.035	0.05	ug/l		8270 C-	11/25/14	1
Chrysene	218-01-9	U	0.014	0.025	0.05	ug/l		8270 C-	11/25/14	1
Dibenz(a,h)anthracene	53-70-3	U	0.0045	0.025	0.05	ug/l		8270 C-	11/25/14	1
Fluoranthene	206-44-0	U	0.016	0.025	0.05	ug/l		8270 C-	11/25/14	1
Fluorene	86-73-7	U	0.009	0.025	0.05	ug/l		8270 C-	11/25/14	1
Indeno(1,2,3-cd)pyrene	193-39-5	U	0.0074	0.025	0.05	ug/l		8270 C-	11/25/14	1
Naphthalene	91-20-3	0.11	0.012	0.025	0.25	ug/l	J	8270 C-	11/25/14	1
Phenanthrene	85-01-8	U	0.018	0.025	0.05	ug/l		8270 C-	11/25/14	1
Pyrene	129-00-0	U	0.016	0.025	0.05	ug/l		8270 C-	11/25/14	1
2-Methylnaphthalene	91-57-6	U	0.016	0.025	0.25	ug/l		8270 C-	11/25/14	1
Surrogate Recovery										
Nitrobenzene-d5	4165-60-0	53.2				% Rec.		8270 C-	11/25/14	1
2-Fluorobiphenyl	321-60-8	52.1				% Rec.		8270 C-	11/25/14	1
p-Terphenyl-d14	1718-51-0	69.0				% Rec.		8270 C-	11/25/14	1
Base/Neutral Extractables										
Bis(2-chlorethoxy)methane	111-91-1	U	0.33	5.0	10	ug/l		8270C	11/26/14	1

U = Not Detected at the LOD
Note:
The reported analytical results relate only to the sample submitted.
This report shall not be reproduced, except in full, without the written approval from ESC.
Reported: 12/03/14 10:12 Revised: 12/08/14 12:52
L735181-08 (ICP METALS) - Diluted due to matrix interference.
L735181-08 (GFAA METALS) - Non-target compounds too high to run at a lower dilution.

12065 Lebanon Rd.
Mt. Juliet, TN 37122
(615) 758-5858
1-800-767-5859
Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

Sheri Fling
URS
8181 E. Tufts Avenue
Denver, CO 80237

December 08, 2014

ESC Sample # : L735181-08

Date Received : November 22, 2014
Description : Holloman AFB

Site ID :

Sample ID : H-TU508-MW07-NT01

Project # : 23446543.0057AA

Collected By :
Collection Date : 11/21/14 08:51

Parameter	CAS#	Result	DL	LOD	LOQ	Units	Qual	Method	Date	Dil.
Bis(2-chloroethyl)ether	111-44-4	U	1.6	5.0	10	ug/l		8270C	11/26/14	1
Bis(2-chloroisopropyl)ether	108-60-1	U	0.44	5.0	10	ug/l		8270C	11/26/14	1
Benzyl Alcohol	100-51-6	U	0.39	5.0	10	ug/l		8270C	11/26/14	1
Carbazole	86-74-8	U	0.16	5.0	10	ug/l		8270C	11/26/14	1
Benzoic acid	65-85-0	U	0.44	5.0	10	ug/l		8270C	11/26/14	1
Dibenzofuran	132-64-9	U	0.34	5.0	10	ug/l		8270C	11/26/14	1
4-Bromophenyl-phenylether	101-55-3	U	0.36	5.0	10	ug/l		8270C	11/26/14	1
2-Chloronaphthalene	91-58-7	U	0.33	0.50	1	ug/l		8270C	11/26/14	1
4-Chlorophenyl-phenylether	7005-72-3	U	0.3	5.0	10	ug/l		8270C	11/26/14	1
3,3-Dichlorobenzidine	91-94-1	U	2	5.0	10	ug/l		8270C	11/26/14	1
2,4-Dinitrotoluene	121-14-2	U	1.6	5.0	10	ug/l		8270C	11/26/14	1
2,6-Dinitrotoluene	606-20-2	U	0.28	5.0	10	ug/l		8270C	11/26/14	1
Hexachlorobenzene	118-74-1	U	0.34	0.50	1	ug/l		8270C	11/26/14	1
Hexachloro-1,3-butadiene	87-68-3	U	0.33	5.0	10	ug/l		8270C	11/26/14	1
Hexachloroethane	67-72-1	U	0.36	5.0	10	ug/l		8270C	11/26/14	1
Isophorone	78-59-1	U	0.27	5.0	10	ug/l		8270C	11/26/14	1
Nitrobenzene	98-95-3	U	0.37	5.0	10	ug/l		8270C	11/26/14	1
n-Nitrosodimethylamine	62-75-9	U	1.3	5.0	10	ug/l		8270C	11/26/14	1
n-Nitrosodiphenylamine	86-30-6	U	0.3	5.0	10	ug/l		8270C	11/26/14	1
n-Nitrosodi-n-propylamine	621-64-7	U	0.4	5.0	10	ug/l		8270C	11/26/14	1
Benzylbutyl phthalate	85-68-7	U	0.28	1.0	3	ug/l		8270C	11/26/14	1
Bis(2-ethylhexyl)phthalate	117-81-7	U	0.71	1.0	3	ug/l		8270C	11/26/14	1
Di-n-butyl phthalate	84-74-2	U	0.27	1.0	3	ug/l		8270C	11/26/14	1
Diethyl phthalate	84-66-2	U	0.28	1.0	3	ug/l		8270C	11/26/14	1
Dimethyl phthalate	131-11-3	U	0.28	1.0	3	ug/l		8270C	11/26/14	1
Di-n-octyl phthalate	117-84-0	U	0.28	1.0	3	ug/l		8270C	11/26/14	1
1,2,4-Trichlorobenzene	120-82-1	U	0.36	5.0	10	ug/l		8270C	11/26/14	1
Acid Extractables										
4-Chloro-3-methylphenol	59-50-7	U	0.26	5.0	10	ug/l		8270C	11/26/14	1
2-Chlorophenol	95-57-8	U	0.28	5.0	10	ug/l		8270C	11/26/14	1
2,4-Dichlorophenol	120-83-2	U	0.28	5.0	10	ug/l		8270C	11/26/14	1
2,4-Dimethylphenol	105-67-9	U	0.62	5.0	10	ug/l		8270C	11/26/14	1
4,6-Dinitro-2-methylphenol	534-52-1	U	2.6	5.0	10	ug/l		8270C	11/26/14	1
2,4-Dinitrophenol	51-28-5	U	3.2	5.0	10	ug/l		8270C	11/26/14	1
2-Methylphenol	95-48-7	U	0.31	5.0	10	ug/l		8270C	11/26/14	1
3&4-Methyl Phenol	3&4-Methyl	U	0.27	5.0	10	ug/l		8270C	11/26/14	1
2-Nitrophenol	88-75-5	U	0.32	5.0	10	ug/l		8270C	11/26/14	1
4-Nitrophenol	100-02-7	U	2	5.0	10	ug/l		8270C	11/26/14	1
4-Chloroaniline	106-47-8	U	0.38	5.0	10	ug/l		8270C	11/26/14	1
2-Nitroaniline	88-74-4	U	1.9	5.0	10	ug/l		8270C	11/26/14	1
3-Nitroaniline	99-09-2	U	0.31	5.0	10	ug/l		8270C	11/26/14	1
1,2-Diphenylhydrazine	103-33-3	U	0.32	5.0	10	ug/l		8270C	11/26/14	1
4-Nitroaniline	100-01-6	U	0.35	5.0	10	ug/l		8270C	11/26/14	1
Pentachlorophenol	87-86-5	U	0.31	5.0	10	ug/l		8270C	11/26/14	1
Phenol	108-95-2	U	0.33	5.0	10	ug/l		8270C	11/26/14	1
2,4,5-Trichlorophenol	95-95-4	U	0.24	5.0	10	ug/l		8270C	11/26/14	1

U = Not Detected at the LOD
Note:
The reported analytical results relate only to the sample submitted.
This report shall not be reproduced, except in full, without the written approval from ESC.
Reported: 12/03/14 10:12 Revised: 12/08/14 12:52
L735181-08 (ICP METALS) - Diluted due to matrix interference.
L735181-08 (GFAA METALS) - Non-target compounds too high to run at a lower dilution.

12065 Lebanon Rd.
Mt. Juliet, TN 37122
(615) 758-5858
1-800-767-5859
Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

Sheri Fling
URS
8181 E. Tufts Avenue
Denver, CO 80237

December 08, 2014

ESC Sample # : L735181-08

Date Received : November 22, 2014
Description : Holloman AFB

Site ID :

Sample ID : H-TU508-MW07-NT01

Project # : 23446543.0057AA

Collected By :
Collection Date : 11/21/14 08:51

Parameter	CAS#	Result	DL	LOD	LOQ	Units	Qual	Method	Date	Dil.
2,4,6-Trichlorophenol	88-06-2	U	0.3	5.0	10	ug/l		8270C	11/26/14	1
Surrogate Recovery										
2-Fluorophenol	367-12-4	36.9				% Rec.		8270C	11/26/14	1
Phenol-d5	4165-62-2	25.4				% Rec.		8270C	11/26/14	1
Nitrobenzene-d5	4165-60-0	45.9				% Rec.		8270C	11/26/14	1
2-Fluorobiphenyl	321-60-8	52.6				% Rec.		8270C	11/26/14	1
2,4,6-Tribromophenol	118-79-6	54.5				% Rec.		8270C	11/26/14	1
p-Terphenyl-d14	1718-51-0	51.7				% Rec.		8270C	11/26/14	1

U = Not Detected at the LOD
Note:
The reported analytical results relate only to the sample submitted.
This report shall not be reproduced, except in full, without the written approval from ESC.
Reported: 12/03/14 10:12 Revised: 12/08/14 12:52
L735181-08 (ICP METALS) - Diluted due to matrix interference.
L735181-08 (GFAA METALS) - Non-target compounds too high to run at a lower dilution.

12065 Lebanon Rd.
Mt. Juliet, TN 37122
(615) 758-5858
1-800-767-5859
Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

Sheri Fling
URS
8181 E. Tufts Avenue
Denver, CO 80237

December 08, 2014

ESC Sample # : L735181-09

Date Received : November 22, 2014
Description : Holloman AFB

Site ID :

Sample ID : H-TU508-MW07-ND01

Project # : 23446543.0057AA

Collected By :
Collection Date : 11/21/14 08:51

Parameter	CAS#	Result	DL	LOD	LOQ	Units	Qual	Method	Date	Dil.
Antimony,Dissolved	7440-36-0	U	1	2.5	10	ug/l		6020	11/28/14	5
Arsenic,Dissolved	7440-38-2	41.	1.2	2.5	10	ug/l		6020	11/28/14	5
Cadmium,Dissolved	7440-43-9	U	0.8	2.5	5	ug/l		6020	11/28/14	5
Chromium,Dissolved	7440-47-3	U	2.7	7.5	10	ug/l		6020	11/28/14	5
Cobalt,Dissolved	7440-48-4	4.4	1.3	2.5	10	ug/l	J	6020	11/28/14	5
Lead,Dissolved	7439-92-1	U	1.2	2.5	10	ug/l		6020	11/28/14	5
Nickel,Dissolved	7440-02-0	5.9	1.8	5.0	10	ug/l	J	6020	11/28/14	5
Selenium,Dissolved	7782-49-2	U	1.9	5.0	10	ug/l		6020	11/28/14	5
Silver,Dissolved	7440-22-4	U	1.6	2.5	10	ug/l		6020	11/28/14	5
Thallium,Dissolved	7440-28-0	U	0.95	2.5	10	ug/l		6020	11/28/14	5
Mercury,Dissolved	7439-97-6	U	0.049	0.080	0.2	ug/l		7470A	11/25/14	1
Aluminum,Dissolved	7429-90-5	U	180	250	500	ug/l		6010B	11/26/14	5
Barium,Dissolved	7440-39-3	88.	8.5	13.	25	ug/l		6010B	11/26/14	5
Beryllium,Dissolved	7440-41-7	U	3.5	5.0	10	ug/l		6010B	11/26/14	5
Copper,Dissolved	7440-50-8	U	26	50.	100	ug/l		6010B	11/26/14	5
Manganese,Dissolved	7439-96-5	640	6	25.	50	ug/l		6010B	11/26/14	5
Vanadium,Dissolved	7440-62-2	48.	12	50.	100	ug/l	J	6010B	11/26/14	5
Zinc,Dissolved	7440-66-6	U	30	130	250	ug/l		6010B	11/26/14	5

U = Not Detected at the LOD
Note:
The reported analytical results relate only to the sample submitted.
This report shall not be reproduced, except in full, without the written approval from ESC.
Reported: 12/03/14 10:12 Revised: 12/08/14 12:52
L735181-09 (GFAA METALS) - Non-target compounds too high to run at a lower dilution.
L735181-09 (ICP METALS) - Diluted due to matrix interference.

12065 Lebanon Rd.
Mt. Juliet, TN 37122
(615) 758-5858
1-800-767-5859
Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

Sheri Fling
URS
8181 E. Tufts Avenue
Denver, CO 80237

December 08, 2014

ESC Sample # : L735181-10

Date Received : November 22, 2014
Description : Holloman AFB

Site ID :

Sample ID : H-TU508-MW07-NT01

Project # : 23446543.0057AA

Collected By :
Collection Date : 11/21/14 08:51

Parameter	CAS#	Result	DL	LOD	LOQ	Units	Qual	Method	Date	Dil.
TPH (GC/FID) Low Fraction	8006-61-9	40.	31	50.	100	ug/l	J	8015D/G	11/26/14	1
Surrogate Recovery-%										
a,a,a-Trifluorotoluene(FID)	98-08-8	99.0				% Rec.		8015D/G	11/26/14	1
Volatile Organics										
Acetone	67-64-1	U	10	25.	50	ug/l		8260B	11/26/14	1
Benzene	71-43-2	U	0.33	0.50	1	ug/l		8260B	11/26/14	1
Bromobenzene	108-86-1	U	0.35	0.50	1	ug/l		8260B	11/26/14	1
Bromochloromethane	74-97-5	U	0.52	0.75	1	ug/l		8260B	11/26/14	1
Bromodichloromethane	75-27-4	U	0.38	0.50	1	ug/l		8260B	11/26/14	1
Bromoform	75-25-2	U	0.47	0.50	1	ug/l		8260B	11/26/14	1
Bromomethane	74-83-9	U	0.87	2.5	5	ug/l		8260B	11/26/14	1
n-Butylbenzene	104-51-8	U	0.36	0.50	1	ug/l		8260B	11/26/14	1
sec-Butylbenzene	135-98-8	U	0.36	0.50	1	ug/l		8260B	11/26/14	1
tert-Butylbenzene	98-06-6	U	0.4	0.50	1	ug/l		8260B	11/26/14	1
Carbon Disulfide	75-15-0	U	0.28	0.50	1	ug/l		8260B	11/26/14	1
Carbon tetrachloride	56-23-5	U	0.38	0.50	1	ug/l		8260B	11/26/14	1
Chlorobenzene	108-90-7	U	0.35	0.50	1	ug/l		8260B	11/26/14	1
Chlorodibromomethane	124-48-1	U	0.33	0.50	1	ug/l		8260B	11/26/14	1
Chloroethane	75-00-3	U	0.45	2.5	5	ug/l		8260B	11/26/14	1
Chloroform	67-66-3	U	0.32	2.5	5	ug/l		8260B	11/26/14	1
Chloromethane	74-87-3	U	0.28	0.50	2.5	ug/l		8260B	11/26/14	1
2-Chlorotoluene	95-49-8	U	0.38	0.50	1	ug/l		8260B	11/26/14	1
4-Chlorotoluene	106-43-4	U	0.35	0.50	1	ug/l		8260B	11/26/14	1
1,2-Dibromo-3-Chloropropane	96-12-8	U	1.3	2.5	5	ug/l		8260B	11/26/14	1
1,2-Dibromoethane	106-93-4	U	0.38	0.50	1	ug/l		8260B	11/26/14	1
Dibromomethane	74-95-3	U	0.35	0.50	1	ug/l		8260B	11/26/14	1
1,2-Dichlorobenzene	95-50-1	U	0.35	0.50	1	ug/l		8260B	11/26/14	1
1,3-Dichlorobenzene	541-73-1	U	0.22	0.50	1	ug/l		8260B	11/26/14	1
1,4-Dichlorobenzene	106-46-7	U	0.27	0.50	1	ug/l		8260B	11/26/14	1
Dichlorodifluoromethane	75-71-8	U	0.55	2.5	5	ug/l		8260B	11/26/14	1
1,1-Dichloroethane	75-34-3	1.3	0.26	0.50	1	ug/l		8260B	11/26/14	1
1,2-Dichloroethane	107-06-2	U	0.36	0.50	1	ug/l		8260B	11/26/14	1
1,1-Dichloroethene	75-35-4	U	0.4	0.50	1	ug/l		8260B	11/26/14	1
cis-1,2-Dichloroethene	156-59-2	6.2	0.26	0.50	1	ug/l		8260B	11/26/14	1
trans-1,2-Dichloroethene	156-60-5	U	0.4	0.50	1	ug/l		8260B	11/26/14	1
1,2-Dichloropropane	78-87-5	U	0.31	0.50	1	ug/l		8260B	11/26/14	1
1,1-Dichloropropene	563-58-6	U	0.35	0.50	1	ug/l		8260B	11/26/14	1
1,3-Dichloropropane	142-28-9	U	0.37	0.50	1	ug/l		8260B	11/26/14	1
cis-1,3-Dichloropropene	10061-01-5	U	0.42	0.50	1	ug/l		8260B	11/26/14	1
trans-1,3-Dichloropropene	10061-02-6	U	0.42	0.50	1	ug/l		8260B	11/26/14	1
2,2-Dichloropropane	594-20-7	U	0.32	0.50	1	ug/l		8260B	11/26/14	1
Ethylbenzene	100-41-4	U	0.38	0.50	1	ug/l		8260B	11/26/14	1
2-Hexanone	591-78-6	U	3.8	5.0	10	ug/l		8260B	11/26/14	1
Hexachloro-1,3-butadiene	87-68-3	U	0.26	0.50	1	ug/l		8260B	11/26/14	1
Isopropylbenzene	98-82-8	U	0.33	0.50	1	ug/l		8260B	11/26/14	1

U = Not Detected at the LOD
Note:
The reported analytical results relate only to the sample submitted.
This report shall not be reproduced, except in full, without the written approval from ESC.
Reported: 12/03/14 10:12 Revised: 12/08/14 12:52

12065 Lebanon Rd.
Mt. Juliet, TN 37122
(615) 758-5858
1-800-767-5859
Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

Sheri Fling
URS
8181 E. Tufts Avenue
Denver, CO 80237

December 08, 2014

ESC Sample # : L735181-10

Date Received : November 22, 2014
Description : Holloman AFB

Site ID :

Sample ID : H-TU508-MW07-NT01

Project # : 23446543.0057AA

Collected By :
Collection Date : 11/21/14 08:51

Parameter	CAS#	Result	DL	LOD	LOQ	Units	Qual	Method	Date	Dil.
p-Isopropyltoluene	99-87-6	U	0.35	0.50	1	ug/l		8260B	11/26/14	1
2-Butanone (MEK)	78-93-3	U	3.9	5.0	10	ug/l		8260B	11/26/14	1
Methylene Chloride	75-09-2	U	1	2.5	5	ug/l		8260B	11/26/14	1
4-Methyl-2-pentanone (MIBK)	108-10-1	U	2.1	5.0	10	ug/l		8260B	11/26/14	1
Methyl tert-butyl ether	1634-04-4	U	0.37	0.50	1	ug/l		8260B	11/26/14	1
Naphthalene	91-20-3	U	1	2.5	5	ug/l		8260B	11/26/14	1
n-Propylbenzene	103-65-1	U	0.35	0.50	1	ug/l		8260B	11/26/14	1
Styrene	100-42-5	U	0.31	0.50	1	ug/l		8260B	11/26/14	1
1,1,1,2-Tetrachloroethane	630-20-6	U	0.38	0.50	1	ug/l		8260B	11/26/14	1
1,1,2,2-Tetrachloroethane	79-34-5	U	0.58	0.75	1	ug/l		8260B	11/26/14	1
Tetrachloroethene	127-18-4	1.6	0.37	0.50	1	ug/l		8260B	11/26/14	1
Toluene	108-88-3	U	0.78	2.5	5	ug/l		8260B	11/26/14	1
1,2,3-Trichlorobenzene	87-61-6	U	0.23	0.50	1	ug/l		8260B	11/26/14	1
1,2,4-Trichlorobenzene	120-82-1	U	0.21	0.50	1	ug/l		8260B	11/26/14	1
1,1,1-Trichloroethane	71-55-6	U	0.319	0.50	1	ug/l		8260B	11/26/14	1
1,1,2-Trichloroethane	79-00-5	U	0.38	0.50	1	ug/l		8260B	11/26/14	1
Trichloroethene	79-01-6	5.4	0.4	0.50	1	ug/l		8260B	11/26/14	1
Trichlorofluoromethane	75-69-4	U	1.2	2.5	5	ug/l		8260B	11/26/14	1
1,2,3-Trichloropropane	96-18-4	U	0.81	1.0	2.5	ug/l		8260B	11/26/14	1
1,2,4-Trimethylbenzene	95-63-6	U	0.37	0.50	1	ug/l		8260B	11/26/14	1
1,3,5-Trimethylbenzene	108-67-8	U	0.39	0.50	1	ug/l		8260B	11/26/14	1
o-Xylene	95-47-6	U	0.34	0.50	1	ug/l		8260B	11/26/14	1
m&p-Xylene	1330-20-7	U	0.72	1.0	2	ug/l		8260B	11/26/14	1
Vinyl chloride	75-01-4	U	0.26	0.50	1	ug/l		8260B	11/26/14	1
Surrogate Recovery										
Toluene-d8	2037-26-5	99.8				% Rec.		8260B	11/26/14	1
Dibromofluoromethane	1868-53-7	102.				% Rec.		8260B	11/26/14	1
4-Bromofluorobenzene	460-00-4	99.4				% Rec.		8260B	11/26/14	1
Diesel and Oil Ranges										
C10-C28 Diesel Range		1700	22	33.	100	ug/l		8015	11/26/14	1
C28-C40 Oil Range		270	12	33.	100	ug/l		8015	11/26/14	1
Surrogate Recovery										
o-Terphenyl	84-15-1	106.				% Rec.		8015	11/26/14	1

U = Not Detected at the LOD
Note:
The reported analytical results relate only to the sample submitted.
This report shall not be reproduced, except in full, without the written approval from ESC.
Reported: 12/03/14 10:12 Revised: 12/08/14 12:52

Attachment A
List of Analytes with QC Qualifiers

Sample Number	Work Group	Sample Type	Analyte	Run ID	Qualifier
L735181-02	WG756338	SAMP	TPH (GC/FID) Low Fraction	R3006796	J
	WG756714	SAMP	C28-C40 Oil Range	R3007553	J
	WG756584	SAMP	Chloroform	R3006753	J
	WG756584	SAMP	Naphthalene	R3006753	J
	WG757513	SAMP	Antimony	R3007484	J
	WG756921	SAMP	Arsenic	R3007132	J
	WG756921	SAMP	Cobalt	R3007132	J
	WG756921	SAMP	Selenium	R3007235	J
	WG756747	SAMP	Vanadium	R3007320	J
	WG756747	SAMP	Zinc	R3007320	J
	WG756543	SAMP	Naphthalene	R3006520	J
L735181-03	WG756357	SAMP	Arsenic,Dissolved	R3007118	J
	WG756357	SAMP	Cobalt,Dissolved	R3007118	J
	WG756357	SAMP	Nickel,Dissolved	R3007234	J
	WG756357	SAMP	Selenium,Dissolved	R3007118	J
	WG756740	SAMP	Aluminum,Dissolved	R3006916	J
	WG756740	SAMP	Vanadium,Dissolved	R3006916	J
L735181-04	WG756357	SAMP	Cobalt,Dissolved	R3007118	J
	WG756357	SAMP	Nickel,Dissolved	R3007234	J
	WG756357	SAMP	Selenium,Dissolved	R3007118	J
	WG756740	SAMP	Vanadium,Dissolved	R3006916	J
L735181-05	WG756338	SAMP	TPH (GC/FID) Low Fraction	R3006796	J
	WG756714	SAMP	C28-C40 Oil Range	R3007553	J
	WG756584	SAMP	tert-Butylbenzene	R3006753	J
	WG756584	SAMP	trans-1,2-Dichloroethene	R3006753	J
	WG757513	SAMP	Antimony	R3007484	J
	WG756921	SAMP	Chromium	R3007132	J
	WG756921	SAMP	Cobalt	R3007132	J
	WG757513	SAMP	Lead	R3007705	J
	WG756921	SAMP	Selenium	R3007235	J
	WG756747	SAMP	Vanadium	R3007320	J
	WG756543	SAMP	Acenaphthylene	R3006520	J
	WG756543	SAMP	Naphthalene	R3006520	J
	WG756405	SAMP	Benzoic acid	R3007068	J
	WG756405	SAMP	Dibenzofuran	R3007068	J
L735181-06	WG756357	SAMP	Cobalt,Dissolved	R3007118	J
	WG756357	SAMP	Nickel,Dissolved	R3007234	J
	WG756357	SAMP	Selenium,Dissolved	R3007118	J
L735181-07	WG756714	SAMP	C28-C40 Oil Range	R3007553	J
	WG756584	SAMP	1,1-Dichloroethane	R3006753	J
	WG756584	SAMP	Tetrachloroethene	R3006753	J
	WG757513	SAMP	Antimony	R3007484	J
	WG756921	SAMP	Cobalt	R3007132	J
	WG757513	SAMP	Lead	R3007705	J
	WG756543	SAMP	Naphthalene	R3006520	J
	WG756405	SAMP	Diethyl phthalate	R3007068	J
L735181-08	WG757513	SAMP	Antimony	R3007484	J
	WG756921	SAMP	Cobalt	R3007132	J
	WG757513	SAMP	Lead	R3007705	J
	WG756921	SAMP	Selenium	R3007235	J
	WG756747	SAMP	Vanadium	R3007320	J
	WG756543	SAMP	Naphthalene	R3006520	J
L735181-09	WG756357	SAMP	Cobalt,Dissolved	R3007118	J
	WG756357	SAMP	Nickel,Dissolved	R3007234	J
	WG756740	SAMP	Vanadium,Dissolved	R3006916	J
L735181-10	WG756338	SAMP	TPH (GC/FID) Low Fraction	R3006796	J

Attachment B
Explanation of QC Qualifier Codes

Qualifier	Meaning
J	(EPA) - Estimated value below the lowest calibration point. Confidence correlates with concentration.

Qualifier Report Information

ESC utilizes sample and result qualifiers as set forth by the EPA Contract Laboratory Program and as required by most certifying bodies including NELAC. In addition to the EPA qualifiers adopted by ESC, we have implemented ESC qualifiers to provide more information pertaining to our analytical results. Each qualifier is designated in the qualifier explanation as either EPA or ESC. Data qualifiers are intended to provide the ESC client with more detailed information concerning the potential bias of reported data. Because of the wide range of constituents and variety of matrices incorporated by most EPA methods,it is common for some compounds to fall outside of established ranges. These exceptions are evaluated and all reported data is valid and useable "unless qualified as 'R' (Rejected)."

Definitions

Accuracy - The relationship of the observed value of a known sample to the true value of a known sample. Represented by percent recovery and relevant to samples such as: control samples, matrix spike recoveries, surrogate recoveries, etc.

Precision - The agreement between a set of samples or between duplicate samples. Relates to how close together the results are and is represented by Relative Percent Differrence.

Surrogate - Organic compounds that are similar in chemical composition, extraction, and chromotography to analytes of interest. The surrogates are used to determine the probable response of the group of analytes that are chemically related to the surrogate compound. Surrogates are added to the sample and carried through all stages of preparation and analyses.

TIC - Tentatively Identified Compound: Compounds detected in samples that are not target compounds, internal standards, system monitoring compounds, or surrogates.

Mercury by Method 7470A

12065 Lebanon Rd
Mt. Juliet, TN 37122
(615) 758-5858
(800) 767-5859
Fax (615) 758-5859
Tax I.D 62-0814289
Est. 1970

Quality Control Summary
SDG: L735181

Mercury by Method 7470A
URS Corporation - Tucson AZ - 1088308

Project: Holloman AFB
Project No: 23446543.0057AA

Login No: L735181

Lab SampleID.	Client ID
L735181-01	H-TU508-TRIPBLANK-TT01
L735181-02	H-TU508-MW06-NT01
L735181-03	H-TU508-MW06-ND01
L735181-04	H-TU508-MW05-ND01
L735181-05	H-TU508-MW05-NT01
L735181-06	H-TU508-MW04-ND01
L735181-07	H-TU508-MW04-NT01
L735181-08	H-TU508-MW07-NT01
L735181-09	H-TU508-MW07-ND01
L735181-10	H-TU508-MW07-NT01

I certify that this data package accurately represents the information in the raw data found herein, both technically and for completeness. Release of the data contained in this data package has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature.

Signature: _____ Name: ESC Lab Sciences

Date: _____ Title: Quality Control

12065 Lebanon Rd
Mt. Juliet, TN 37122
(615) 758-5858
(800) 767-5859
Fax (615) 758-5859
Tax I.D 62-0814289
Est. 1970

Quality Control Summary
SDG: L735181
URS Corporation - Tucson AZ - 1088308

Test:	Mercury by Method 7470A		
Project No:	23446543.0057AA	Matrix:	Water - ug/L
Project:	Holloman AFB	EPA ID:	TN00003
Collection Date:	11/20/2014	**Analytic Batch:**	**WG755986**
Analysis Date:	11/24/2014 9:33:00 AM	Analyst:	657
Instrument ID:	CVAA3	Prep Date:	11/21/2014
Sample Numbers:	L735181-03, -04, -06		

Workgroup: **WG755986**

Sample Name	Collect Date	Prep Date	Analysis Date
L735181-03 1x	11/19/2014	11/22/2014	11/24/2014
L735181-04 1x	11/19/2014	11/22/2014	11/24/2014
L735181-06 1x	11/19/2014	11/22/2014	11/24/2014

Parameters in bold text are reported in this SDG

12065 Lebanon Rd
Mt. Juliet, TN 37122
(615) 758-5858
(800) 767-5859
Fax (615) 758-5859
Tax I.D 62-0814289
Est. 1970

Quality Control Summary
SDG: L735181
URS Corporation - Tucson AZ - 1088308

Test:	Mercury by Method 7470A		
Project No:	23446543.0057AA	Matrix:	Water - ug/L
Project:	Holloman AFB	EPA ID:	TN00003
Collection Date:	11/20/2014	**Analytic Batch:**	**WG756120**
Analysis Date:	11/22/2014 9:36:00 PM	Analyst:	572
Instrument ID:	CVAA3	Prep Date:	11/21/2014
Sample Numbers:	L735181-02, -05, -07		

Workgroup: **WG756120**

Sample Name	Collect Date	Prep Date	Analysis Date
L735181-02 1x	11/19/2014	11/22/2014	11/22/2014
L735181-05 1x	11/19/2014	11/22/2014	11/22/2014
L735181-07 1x	11/19/2014	11/22/2014	11/22/2014

Parameters in bold text are reported in this SDG

12065 Lebanon Rd
Mt. Juliet, TN 37122
(615) 758-5858
(800) 767-5859
Fax (615) 758-5859
Tax I.D 62-0814289
Est. 1970

Quality Control Summary
SDG: L735181
URS Corporation - Tucson AZ - 1088308

Test:	Mercury by Method 7470A		
Project No:	23446543.0057AA	Matrix:	Water - ug/L
Project:	Holloman AFB	EPA ID:	TN00003
Collection Date:	11/20/2014	**Analytic Batch:**	**WG756318**
Analysis Date:	11/25/2014 10:38:00 AM	Analyst:	628
Instrument ID:	CVAA3	Prep Date:	11/22/2014
Sample Numbers:	L735181-09		

Workgroup: **WG756318**

Sample Name	Collect Date	Prep Date	Analysis Date
L735181-09 1x	11/21/2014	11/24/2014	11/25/2014

Parameters in bold text are reported in this SDG

12065 Lebanon Rd
Mt. Juliet, TN 37122
(615) 758-5858
(800) 767-5859
Fax (615) 758-5859
Tax I.D 62-0814289
Est. 1970

Quality Control Summary
SDG: L735181
URS Corporation - Tucson AZ - 1088308

Test:	Mercury by Method 7470A		
Project No:	23446543.0057AA	Matrix:	Water - ug/L
Project:	Holloman AFB	EPA ID:	TN00003
Collection Date:	11/20/2014	**Analytic Batch:**	**WG756562**
Analysis Date:	11/25/2014 6:08:00 PM	Analyst:	572
Instrument ID:	CVAA4	Prep Date:	11/24/2014
Sample Numbers:	L735181-08		

Workgroup: **WG756562**

Sample Name	Collect Date	Prep Date	Analysis Date
L735181-08 1x	11/21/2014	11/25/2014	11/25/2014

Parameters in bold text are reported in this SDG

12065 Lebanon Rd
Mt. Juliet, TN 37122
(615) 758-5858
(800) 767-5859
Fax (615) 758-5859
Tax I.D 62-0814289
Est. 1970

Quality Control Summary
SDG: L735181
URS Corporation - Tucson AZ - 1088308

Test:	Mercury by Method 7470A		
Project No:	23446543.0057AA	Matrix:	Water - ug/L
Project:	Holloman AFB	EPA ID:	TN00003
Collection Date:	11/20/2014	**Analytic Batch:**	**WG755986**
Analysis Date:	11/24/2014 9:33:00 AM	Analyst:	657
Instrument ID:	CVAA3	Prep Date:	11/21/2014
Sample Numbers:	L735181-03, -04, -06		

Method Blank Summary

Instrument	Client Sample ID	Lab Sample ID	File Name	Analysis Date	Analysis Time
CVAA3	Blank WG755986	Blank WG755986	12	11/24/2014	8:26 AM
CVAA3	LCS WG755986	LCS WG755986	13	11/24/2014	8:28 AM
CVAA3	LCSD WG755986	LCSD WG755986	14	11/24/2014	8:31 AM
CVAA3	H-TU508-MW04-ND01	L735181-06	15	11/24/2014	8:33 AM
CVAA3	MS WG755986	MS WG755986	16	11/24/2014	8:36 AM
CVAA3	MSD WG755986	MSD WG755986	17	11/24/2014	8:39 AM
CVAA3	DUP WG755986	DUP WG755986	18	11/24/2014	8:41 AM
CVAA3	H-TU508-MW06-ND01	L735181-03	38	11/24/2014	9:33 AM
CVAA3	H-TU508-MW05-ND01	L735181-04	39	11/24/2014	9:35 AM

Parameters in bold text are reported in this SDG

12065 Lebanon Rd
Mt. Juliet, TN 37122
(615) 758-5858
(800) 767-5859
Fax (615) 758-5859
Tax I.D 62-0814289
Est. 1970

Quality Control Summary
SDG: L735181
URS Corporation - Tucson AZ - 1088308

Test:	Mercury by Method 7470A		
Project No:	23446543.0057AA	Matrix:	Water - ug/L
Project:	Holloman AFB	EPA ID:	TN00003
Collection Date:	11/20/2014	**Analytic Batch:**	**WG756120**
Analysis Date:	11/22/2014 9:36:00 PM	Analyst:	572
Instrument ID:	CVAA3	Prep Date:	11/21/2014
Sample Numbers:	L735181-02, -05, -07		

Method Blank Summary

Instrument	Client Sample ID	Lab Sample ID	File Name	Analysis Date	Analysis Time
CVAA3	Blank WG756120	Blank WG756120	118	11/22/2014	8:38 PM
CVAA3	LCS WG756120	LCS WG756120	119	11/22/2014	8:41 PM
CVAA3	LCSD WG756120	LCSD WG756120	120	11/22/2014	8:43 PM
CVAA3	MS WG756120	MS WG756120	122	11/22/2014	8:49 PM
CVAA3	MSD WG756120	MSD WG756120	123	11/22/2014	8:51 PM
CVAA3	DUP WG756120	DUP WG756120	124	11/22/2014	8:54 PM
CVAA3	H-TU508-MW06-NT01	L735181-02	140	11/22/2014	9:36 PM
CVAA3	H-TU508-MW05-NT01	L735181-05	141	11/22/2014	9:38 PM
CVAA3	H-TU508-MW04-NT01	L735181-07	142	11/22/2014	9:41 PM

Parameters in bold text are reported in this SDG

12065 Lebanon Rd
Mt. Juliet, TN 37122
(615) 758-5858
(800) 767-5859
Fax (615) 758-5859
Tax I.D 62-0814289
Est. 1970

Quality Control Summary
SDG: L735181
URS Corporation - Tucson AZ - 1088308

Test:	Mercury by Method 7470A		
Project No:	23446543.0057AA	Matrix:	Water - ug/L
Project:	Holloman AFB	EPA ID:	TN00003
Collection Date:	11/20/2014	**Analytic Batch:**	**WG756318**
Analysis Date:	11/25/2014 10:38:00 AM	Analyst:	628
Instrument ID:	CVAA3	Prep Date:	11/22/2014
Sample Numbers:	L735181-09		

Method Blank Summary

Instrument	Client Sample ID	Lab Sample ID	File Name	Analysis Date	Analysis Time
CVAA3	Blank WG756318	Blank WG756318	64	11/25/2014	9:49 AM
CVAA3	LCS WG756318	LCS WG756318	65	11/25/2014	9:52 AM
CVAA3	LCSD WG756318	LCSD WG756318	66	11/25/2014	9:54 AM
CVAA3	MS WG756318	MS WG756318	68	11/25/2014	9:59 AM
CVAA3	MSD WG756318	MSD WG756318	69	11/25/2014	10:02 AM
CVAA3	DUP WG756318	DUP WG756318	70	11/25/2014	10:05 AM
CVAA3	H-TU508-MW07-ND01	L735181-09	83	11/25/2014	10:38 AM

Parameters in bold text are reported in this SDG

12065 Lebanon Rd
Mt. Juliet, TN 37122
(615) 758-5858
(800) 767-5859
Fax (615) 758-5859
Tax I.D 62-0814289
Est. 1970

Quality Control Summary
SDG: L735181
URS Corporation - Tucson AZ - 1088308

Test:	Mercury by Method 7470A		
Project No:	23446543.0057AA	Matrix:	Water - ug/L
Project:	Holloman AFB	EPA ID:	TN00003
Collection Date:	11/20/2014	**Analytic Batch:**	**WG756562**
Analysis Date:	11/25/2014 6:08:00 PM	Analyst:	572
Instrument ID:	CVAA4	Prep Date:	11/24/2014
Sample Numbers:	L735181-08		

Method Blank Summary

Instrument	Client Sample ID	Lab Sample ID	File Name	Analysis Date	Analysis Time
CVAA4	Blank WG756562	Blank WG756562	42	11/25/2014	5:48 PM
CVAA4	LCS WG756562	LCS WG756562	43	11/25/2014	5:51 PM
CVAA4	LCSD WG756562	LCSD WG756562	44	11/25/2014	5:54 PM
CVAA4	MS WG756562	MS WG756562	46	11/25/2014	6:00 PM
CVAA4	MSD WG756562	MSD WG756562	47	11/25/2014	6:03 PM
CVAA4	DUP WG756562	DUP WG756562	48	11/25/2014	6:05 PM
CVAA4	H-TU508-MW07-NT01	L735181-08	49	11/25/2014	6:08 PM

Parameters in bold text are reported in this SDG

12065 Lebanon Rd
Mt. Juliet, TN 37122
(615) 758-5858
(800) 767-5859
Fax (615) 758-5859
Tax I.D 62-0814289
Est. 1970

Quality Control Summary
SDG: L735181
URS Corporation - Tucson AZ - 1088308

Test:	Mercury by Method 7470A		
Project No:	23446543.0057AA	Matrix:	Water - ug/L
Project:	Holloman AFB	EPA ID:	TN00003
Collection Date:	11/20/2014	**Analytic Batch:**	**WG755986**
Analysis Date:	11/24/2014 9:33:00 AM	Analyst:	657
Instrument ID:	CVAA3	Prep Date:	11/21/2014
Sample Numbers:	L735181-03, -04, -06		

Method Blank

Analyte	CAS	RDL	MDL	Qualifier
Mercury,Dissolved	7439-97-6	< 0.200	< 0.0490	

Laboratory Control Sample (LCS)

Analyte	Dil	True Value	Found	% Rec	Control Limits	Qual
Mercury,Dissolved	1	3	2.8055	94	85 - 115	

Laboratory Control Sample Duplicate (LCSD)

Analyte	Dil	True Value	Found	% Rec	Control Limits	Qual
Mercury,Dissolved	1	3	2.8106	94	85 - 115	

Laboratory Control Sample / Laboratory Control Sample Duplicate

Analyte	Dil	Spike	LCS	% Rec	LCSD	% Rec	Control Limits	% Rec Qual	% RPD	Control Limits	RPD Qual
Mercury,Dissolved	1	3	2.8055	94	2.8106	94	85 - 115		0	20	

Parameters in bold text are reported in this SDG

12065 Lebanon Rd
Mt. Juliet, TN 37122
(615) 758-5858
(800) 767-5859
Fax (615) 758-5859
Tax I.D 62-0814289
Est. 1970

Quality Control Summary
SDG: L735181
URS Corporation - Tucson AZ - 1088308

Test:	Mercury by Method 7470A		
Project No:	23446543.0057AA	Matrix:	Water - ug/L
Project:	Holloman AFB	EPA ID:	TN00003
Collection Date:	11/20/2014	**Analytic Batch:**	**WG756120**
Analysis Date:	11/22/2014 9:36:00 PM	Analyst:	572
Instrument ID:	CVAA3	Prep Date:	11/21/2014
Sample Numbers:	L735181-02, -05, -07		

Method Blank

Analyte	CAS	RDL	MDL	Qualifier
Mercury	7439-97-6	< 0.200	< 0.0490	

Laboratory Control Sample (LCS)

Analyte	Dil	True Value	Found	% Rec	Control Limits	Qual
Mercury	1	3	3.1135	104	85 - 115	

Laboratory Control Sample Duplicate (LCSD)

Analyte	Dil	True Value	Found	% Rec	Control Limits	Qual
Mercury	1	3	2.8444	95	85 - 115	

Laboratory Control Sample / Laboratory Control Sample Duplicate

Analyte	Dil	Spike	LCS	% Rec	LCSD	% Rec	Control Limits	% Rec Qual	% RPD	Control Limits	RPD Qual
Mercury	1	3	3.1135	104	2.8444	95	85 - 115		9	20	

Parameters in bold text are reported in this SDG

12065 Lebanon Rd
Mt. Juliet, TN 37122
(615) 758-5858
(800) 767-5859
Fax (615) 758-5859
Tax I.D 62-0814289
Est. 1970

Quality Control Summary
SDG: L735181
URS Corporation - Tucson AZ - 1088308

Test:	Mercury by Method 7470A		
Project No:	23446543.0057AA	Matrix:	Water - ug/L
Project:	Holloman AFB	EPA ID:	TN00003
Collection Date:	11/20/2014	**Analytic Batch:**	**WG756318**
Analysis Date:	11/25/2014 10:38:00 AM	Analyst:	628
Instrument ID:	CVAA3	Prep Date:	11/22/2014
Sample Numbers:	L735181-09		

Method Blank

Analyte	CAS	RDL	MDL	Qualifier
Mercury,Dissolved	7439-97-6	< 0.200	< 0.0490	

Laboratory Control Sample (LCS)

Analyte	Dil	True Value	Found	% Rec	Control Limits	Qual
Mercury,Dissolved	1	3	3.0997	103	85 - 115	

Laboratory Control Sample Duplicate (LCSD)

Analyte	Dil	True Value	Found	% Rec	Control Limits	Qual
Mercury,Dissolved	1	3	3.1028	103	85 - 115	

Laboratory Control Sample / Laboratory Control Sample Duplicate

Analyte	Dil	Spike	LCS	% Rec	LCSD	% Rec	Control Limits	% Rec Qual	% RPD	Control Limits	RPD Qual
Mercury,Dissolved	1	3	3.0997	103	3.1028	103	85 - 115		0	20	

Parameters in bold text are reported in this SDG

12065 Lebanon Rd
Mt. Juliet, TN 37122
(615) 758-5858
(800) 767-5859
Fax (615) 758-5859
Tax I.D 62-0814289
Est. 1970

Quality Control Summary
SDG: L735181
URS Corporation - Tucson AZ - 1088308

Test:	Mercury by Method 7470A		
Project No:	23446543.0057AA	Matrix:	Water - ug/L
Project:	Holloman AFB	EPA ID:	TN00003
Collection Date:	11/20/2014	**Analytic Batch:**	**WG756562**
Analysis Date:	11/25/2014 6:08:00 PM	Analyst:	572
Instrument ID:	CVAA4	Prep Date:	11/24/2014
Sample Numbers:	L735181-08		

Method Blank

Analyte	CAS	RDL	MDL	Qualifier
Mercury	7439-97-6	< 0.200	< 0.0490	

Laboratory Control Sample (LCS)

Analyte	Dil	True Value	Found	% Rec	Control Limits	Qual
Mercury	1	3	2.7599	92	85 - 115	

Laboratory Control Sample Duplicate (LCSD)

Analyte	Dil	True Value	Found	% Rec	Control Limits	Qual
Mercury	1	3	2.7796	93	85 - 115	

Laboratory Control Sample / Laboratory Control Sample Duplicate

Analyte	Dil	Spike	LCS	% Rec	LCSD	% Rec	Control Limits	% Rec Qual	% RPD	Control Limits	RPD Qual
Mercury	1	3	2.7599	92	2.7796	93	85 - 115		1	20	

Parameters in bold text are reported in this SDG

12065 Lebanon Rd
Mt. Juliet, TN 37122
(615) 758-5858
(800) 767-5859
Fax (615) 758-5859
Tax I.D 62-0814289
Est. 1970

Quality Control Summary
SDG: L735181
URS Corporation - Tucson AZ - 1088308

Test:	Mercury by Method 7470A		
Project No:	23446543.0057AA	Matrix:	Water - ug/L
Project:	Holloman AFB	EPA ID:	TN00003
Collection Date:	11/20/2014	**Analytic Batch:**	**WG755986**
Analysis Date:	11/24/2014 9:33:00 AM	Analyst:	657
Instrument ID:	CVAA3	Prep Date:	11/21/2014
Sample Numbers:	L735181-03, -04, -06		

Serial Dilution

L735181-06

Analyte	Dil	Sample Result	SD Result	% RPD	Limit	Qualifier
Mercury,Dissolved	5	<0.049	<0.245		10	

Matrix Spike / Matrix Spike Duplicate

L735181-06

Analyte	Dil	Spike Value	Sample	MS	% Rec	MSD	% Rec	Control Limits	% Rec Qual	RPD	Control Limits	RPD Qual
Mercury,Dissolved	1	3	<0.049	2.7460	90	2.8617	94	80 - 120		4	20	

Parameters in bold text are reported in this SDG

12065 Lebanon Rd
Mt. Juliet, TN 37122
(615) 758-5858
(800) 767-5859
Fax (615) 758-5859
Tax I.D 62-0814289
Est. 1970

Quality Control Summary
SDG: L735181
URS Corporation - Tucson AZ - 1088308

Test:	Mercury by Method 7470A		
Project No:	23446543.0057AA	Matrix:	Water - ug/L
Project:	Holloman AFB	EPA ID:	TN00003
Collection Date:	11/20/2014	**Analytic Batch:**	**WG756120**
Analysis Date:	11/22/2014 9:36:00 PM	Analyst:	572
Instrument ID:	CVAA3	Prep Date:	11/21/2014
Sample Numbers:	L735181-02, -05, -07		

Serial Dilution

L734983-01

Analyte	Dil	Sample Result	SD Result	% RPD	Limit	Qualifier
Mercury	5	<0.049	<0.245		10	

Matrix Spike / Matrix Spike Duplicate

L734983-01

Analyte	Dil	Spike Value	Sample	MS	% Rec	MSD	% Rec	Control Limits	% Rec Qual	RPD	Control Limits	RPD Qual
Mercury	1	3	<0.049	3.0383	101	3.0073	100	80 - 120		1	20	

Parameters in bold text are reported in this SDG

12065 Lebanon Rd
Mt. Juliet, TN 37122
(615) 758-5858
(800) 767-5859
Fax (615) 758-5859
Tax I.D 62-0814289
Est. 1970

Quality Control Summary
SDG: L735181
URS Corporation - Tucson AZ - 1088308

Test:	Mercury by Method 7470A		
Project No:	23446543.0057AA	Matrix:	Water - ug/L
Project:	Holloman AFB	EPA ID:	TN00003
Collection Date:	11/20/2014	**Analytic Batch:**	**WG756318**
Analysis Date:	11/25/2014 10:38:00 AM	Analyst:	628
Instrument ID:	CVAA3	Prep Date:	11/22/2014
Sample Numbers:	L735181-09		

Serial Dilution

L735015-02

Analyte	Dil	Sample Result	SD Result	% RPD	Limit	Qualifier
Mercury,Dissolved	5	<0.049	<0.245		10	

Matrix Spike / Matrix Spike Duplicate

L735015-02

Analyte	Dil	Spike Value	Sample	MS	% Rec	MSD	% Rec	Control Limits	% Rec Qual	RPD	Control Limits	RPD Qual
Mercury,Dissolved	1	3	<0.049	3.3694	112	3.2207	107	80 - 120		5	20	

Parameters in bold text are reported in this SDG

12065 Lebanon Rd
Mt. Juliet, TN 37122
(615) 758-5858
(800) 767-5859
Fax (615) 758-5859
Tax I.D 62-0814289
Est. 1970

Quality Control Summary
SDG: L735181
URS Corporation - Tucson AZ - 1088308

Test:	Mercury by Method 7470A		
Project No:	23446543.0057AA	Matrix:	Water - ug/L
Project:	Holloman AFB	EPA ID:	TN00003
Collection Date:	11/20/2014	**Analytic Batch:**	**WG756562**
Analysis Date:	11/25/2014 6:08:00 PM	Analyst:	572
Instrument ID:	CVAA4	Prep Date:	11/24/2014
Sample Numbers:	L735181-08		

Serial Dilution

L735338-10

Analyte	Dil	Sample Result	SD Result	% RPD	Limit	Qualifier
Mercury	5	<0.049	<0.245		10	

Matrix Spike / Matrix Spike Duplicate

L735338-10

Analyte	Dil	Spike Value	Sample	MS	% Rec	MSD	% Rec	Control Limits	% Rec Qual	RPD	Control Limits	RPD Qual
Mercury	1	3	<0.049	2.8583	95	2.9363	98	80 - 120		3	20	

Parameters in bold text are reported in this SDG

12065 Lebanon Rd
Mt. Juliet, TN 37122
(615) 758-5858
(800) 767-5859
Fax (615) 758-5859
Tax I.D 62-0814289
Est. 1970

Quality Control Summary
SDG: L735181
URS Corporation - Tucson AZ - 1088308

Test: Mercury by CVAA
Project No: 23446543.0057AA
Project: Holloman AFB EPA ID: TN00003
Collection Date: 11/20/2014
Instrument ID: CVAA3

Standard Type: ICVLL
Analysis Date: 11/24/2014 8:15 AM
Analysis Time: 0815
Data File: 112414CVAA3 W

Analyte	Conc.			
Mercury	0.0002	0.0002	104 %	70-130

Standard Type: ICV
Analysis Date: 11/24/2014 8:21 AM
Analysis Time: 0821
Data File: 112414CVAA3 W

Analyte	Conc.	True Value	Recovery	Limits
Mercury	0.0030	0.003	99 %	90-110

Standard Type: CCV
Analysis Date: 11/24/2014 9:07 AM
Analysis Time: 0907
Data File: 112414CVAA3 W

Analyte	Conc.	True Value	Recovery	Limits
Mercury	0.0025	0.0025	101 %	90-110

Standard Type: CCV
Analysis Date: 11/24/2014 9:40 AM
Analysis Time: 0940
Data File: 112414CVAA3 W

Analyte	Conc.	True Value	Recovery	Limits
Mercury	0.0025	0.0025	100 %	90-110

*** - calibrated by linear regression*

12065 Lebanon Rd
Mt. Juliet, TN 37122
(615) 758-5858
(800) 767-5859
Fax (615) 758-5859
Tax I.D 62-0814289
Est. 1970

Quality Control Summary
SDG: L735181
URS Corporation - Tucson AZ - 1088308

Test: Mercury by CVAA
Project No: 23446543.0057AA
Project: Holloman AFB EPA ID: TN00003
Collection Date: 11/20/2014
Instrument ID: CVAA3

Standard Type: CCVLL
Analysis Date: 11/24/2014 1:55 PM
Analysis Time: 1355
Data File: 112414CVAA3 W

Analyte	Conc.			
Mercury	0.0002	0.0002	119 %	70-130

*** - calibrated by linear regression*

12065 Lebanon Rd
Mt. Juliet, TN 37122
(615) 758-5858
(800) 767-5859
Fax (615) 758-5859
Tax I.D 62-0814289
Est. 1970

Quality Control Summary
SDG: L735181
URS Corporation - Tucson AZ - 1088308

Test: Mercury by CVAA
Project No: 23446543.0057AA
Project: Holloman AFB EPA ID: TN00003
Collection Date: 11/20/2014
Instrument ID: CVAA3

Standard Type: ICVLL
Analysis Date: 11/22/2014 3:54 PM
Analysis Time: 1554
Data File: 112214CVAA3 W

Analyte	Conc.			
Mercury	0.0002	0.0002	101 %	70-130

Standard Type: ICV
Analysis Date: 11/22/2014 3:56 PM
Analysis Time: 1556
Data File: 112214CVAA3 W

Analyte	Conc.	True Value	Recovery	Limits
Mercury	0.0030	0.003	101 %	90-110

Standard Type: CCV
Analysis Date: 11/22/2014 8:25 PM
Analysis Time: 2025
Data File: 112214CVAA3 W

Analyte	Conc.	True Value	Recovery	Limits
Mercury	0.0026	0.0025	102 %	90-110

Standard Type: CCV
Analysis Date: 11/22/2014 9:15 PM
Analysis Time: 2115
Data File: 112214CVAA3 W

Analyte	Conc.	True Value	Recovery	Limits
Mercury	0.0025	0.0025	99 %	90-110

*** - calibrated by linear regression*

12065 Lebanon Rd
Mt. Juliet, TN 37122
(615) 758-5858
(800) 767-5859
Fax (615) 758-5859
Tax I.D 62-0814289
Est. 1970

Quality Control Summary
SDG: L735181
URS Corporation - Tucson AZ - 1088308

Test: Mercury by CVAA
Project No: 23446543.0057AA
Project: Holloman AFB EPA ID: TN00003
Collection Date: 11/20/2014
Instrument ID: CVAA3

Standard Type: CCVLL
Analysis Date: 11/22/2014 9:49 PM
Analysis Time: 2149
Data File: 112214CVAA3 W

Analyte	Conc.			
Mercury	0.0002	0.0002	101 %	70-130

Standard Type: CCV
Analysis Date: 11/22/2014 9:51 PM
Analysis Time: 2151
Data File: 112214CVAA3 W

Analyte	Conc.	True Value	Recovery	Limits
Mercury	0.0024	0.0025	98 %	90-110

*** - calibrated by linear regression*

12065 Lebanon Rd
Mt. Juliet, TN 37122
(615) 758-5858
(800) 767-5859
Fax (615) 758-5859
Tax I.D 62-0814289
Est. 1970

Quality Control Summary
SDG: L735181
URS Corporation - Tucson AZ - 1088308

Test: Mercury by CVAA
Project No: 23446543.0057AA
Project: Holloman AFB EPA ID: TN00003
Collection Date: 11/20/2014
Instrument ID: CVAA3

Standard Type: ICVLL
Analysis Date: 11/25/2014 7:14 AM
Analysis Time: 0714
Data File: 112514CVAA3 W

Analyte	Conc.			
Mercury	0.0002	0.0002	110 %	70-130

Standard Type: ICV
Analysis Date: 11/25/2014 7:17 AM
Analysis Time: 0717
Data File: 112514CVAA3 W

Analyte	Conc.	True Value	Recovery	Limits
Mercury	0.0030	0.003	99 %	90-110

Standard Type: CCV
Analysis Date: 11/25/2014 9:44 AM
Analysis Time: 0944
Data File: 112514CVAA3 W

Analyte	Conc.	True Value	Recovery	Limits
Mercury	0.0026	0.0025	103 %	90-110

Standard Type: CCV
Analysis Date: 11/25/2014 10:30 AM
Analysis Time: 1030
Data File: 112514CVAA3 W

Analyte	Conc.	True Value	Recovery	Limits
Mercury	0.0026	0.0025	105 %	90-110

*** - calibrated by linear regression*

12065 Lebanon Rd
Mt. Juliet, TN 37122
(615) 758-5858
(800) 767-5859
Fax (615) 758-5859
Tax I.D 62-0814289
Est. 1970

Quality Control Summary
SDG: L735181
URS Corporation - Tucson AZ - 1088308

Test: Mercury by CVAA
Project No: 23446543.0057AA
Project: Holloman AFB EPA ID: TN00003
Collection Date: 11/20/2014
Instrument ID: CVAA3

Standard Type: CCVLL
Analysis Date: 11/25/2014 10:55 AM
Analysis Time: 1055
Data File: 112514CVAA3 W

Analyte	Conc.			
Mercury	0.0002	0.0002	98 %	70-130

Standard Type: CCV
Analysis Date: 11/25/2014 10:58 AM
Analysis Time: 1058
Data File: 112514CVAA3 W

Analyte	Conc.	True Value	Recovery	Limits
Mercury	0.0026	0.0025	103 %	90-110

*** - calibrated by linear regression*

12065 Lebanon Rd
Mt. Juliet, TN 37122
(615) 758-5858
(800) 767-5859
Fax (615) 758-5859
Tax I.D 62-0814289
Est. 1970

Quality Control Summary
SDG: L735181
URS Corporation - Tucson AZ - 1088308

Test: Mercury by CVAA
Project No: 23446543.0057AA
Project: Holloman AFB EPA ID: TN00003
Collection Date: 11/20/2014
Instrument ID: CVAA4

Standard Type: ICVLL
Analysis Date: 11/25/2014 4:08 PM
Analysis Time: 1608
Data File: 112514CVAA4 W

Analyte	Conc.			
Mercury	0.0002	0.0002	95 %	70-130

Standard Type: ICV
Analysis Date: 11/25/2014 4:11 PM
Analysis Time: 1611
Data File: 112514CVAA4 W

Analyte	Conc.	True Value	Recovery	Limits
Mercury	0.0029	0.003	97 %	90-110

Standard Type: CCV
Analysis Date: 11/25/2014 5:13 PM
Analysis Time: 1713
Data File: 112514CVAA4 W

Analyte	Conc.	True Value	Recovery	Limits
Mercury	0.0024	0.0025	95 %	90-110

Standard Type: CCV
Analysis Date: 11/25/2014 6:26 PM
Analysis Time: 1826
Data File: 112514CVAA4 W

Analyte	Conc.	True Value	Recovery	Limits
Mercury	0.0024	0.0025	94 %	90-110

*** - calibrated by linear regression*

12065 Lebanon Rd
Mt. Juliet, TN 37122
(615) 758-5858
(800) 767-5859
Fax (615) 758-5859
Tax I.D 62-0814289
Est. 1970

Quality Control Summary
SDG: L735181
URS Corporation - Tucson AZ - 1088308

Test: Mercury by CVAA
Project No: 23446543.0057AA
Project: Holloman AFB EPA ID: TN00003
Collection Date: 11/20/2014
Instrument ID: CVAA4

Standard Type: CCVLL
Analysis Date: 11/25/2014 8:24 PM
Analysis Time: 2024
Data File: 112514CVAA4 W

Analyte	Conc.			
Mercury	0.0002	0.0002	90 %	70-130

*** - calibrated by linear regression*

12065 Lebanon Rd
Mt. Juliet, TN 37122
(615) 758-5858
(800) 767-5859
Fax (615) 758-5859
Tax I.D 62-0814289
Est. 1970

Quality Control Summary
SDG: L735181
URS Corporation - Tucson AZ - 1088308

Test: Mercury by CVAA
Project No: 23446543.0057AA
Project: Holloman AFB EPA ID: TN00003
Collection Date: 11/20/2014
Instrument ID: CVAA3

Standard Type: ICB
Analysis Date: 11/24/2014 8:23 AM
Analysis Time: 0823
Data File: 112414CVAA3 W

Analyte	MDL	Conc	Filename
Mercury	4.9E-05	0.000066	112414CVAA3

Standard Type: CCB
Analysis Date: 11/24/2014 9:10 AM
Analysis Time: 0910
Data File: 112414CVAA3 W

Analyte	MDL	Conc	Filename
Mercury	4.9E-05	< 4.9E-05	112414CVAA3

Standard Type: CCB
Analysis Date: 11/24/2014 9:43 AM
Analysis Time: 0943
Data File: 112414CVAA3 W

Analyte	MDL	Conc	Filename
Mercury	4.9E-05	< 4.9E-05	112414CVAA3

*** - calibrated by linear regression*

12065 Lebanon Rd
Mt. Juliet, TN 37122
(615) 758-5858
(800) 767-5859
Fax (615) 758-5859
Tax I.D 62-0814289
Est. 1970

Quality Control Summary
SDG: L735181
URS Corporation - Tucson AZ - 1088308

Test: Mercury by CVAA
Project No: 23446543.0057AA
Project: Holloman AFB EPA ID: TN00003
Collection Date: 11/20/2014
Instrument ID: CVAA3

Standard Type: ICB
Analysis Date: 11/22/2014 3:59 PM
Analysis Time: 1559
Data File: 112214CVAA3 W

Analyte	MDL	Conc	Filename
Mercury	4.9E-05	< 4.9E-05	112214CVAA3

Standard Type: CCB
Analysis Date: 11/22/2014 8:28 PM
Analysis Time: 2028
Data File: 112214CVAA3 W

Analyte	MDL	Conc	Filename
Mercury	4.9E-05	< 4.9E-05	112214CVAA3

Standard Type: CCB
Analysis Date: 11/22/2014 9:17 PM
Analysis Time: 2117
Data File: 112214CVAA3 W

Analyte	MDL	Conc	Filename
Mercury	4.9E-05	< 4.9E-05	112214CVAA3

Standard Type: CCB
Analysis Date: 11/22/2014 9:54 PM
Analysis Time: 2154
Data File: 112214CVAA3 W

Analyte	MDL	Conc	Filename
Mercury	4.9E-05	< 4.9E-05	112214CVAA3

*** - calibrated by linear regression*

12065 Lebanon Rd
Mt. Juliet, TN 37122
(615) 758-5858
(800) 767-5859
Fax (615) 758-5859
Tax I.D 62-0814289
Est. 1970

Quality Control Summary
SDG: L735181
URS Corporation - Tucson AZ - 1088308

Test: Mercury by CVAA
Project No: 23446543.0057AA
Project: Holloman AFB EPA ID: TN00003
Collection Date: 11/20/2014
Instrument ID: CVAA3

Standard Type: ICB
Analysis Date: 11/25/2014 7:19 AM
Analysis Time: 0719
Data File: 112514CVAA3 W

Analyte	MDL	Conc	Filename
Mercury	4.9E-05	< 4.9E-05	112514CVAA3

Standard Type: CCB
Analysis Date: 11/25/2014 9:47 AM
Analysis Time: 0947
Data File: 112514CVAA3 W

Analyte	MDL	Conc	Filename
Mercury	4.9E-05	< 4.9E-05	112514CVAA3

Standard Type: CCB
Analysis Date: 11/25/2014 10:33 AM
Analysis Time: 1033
Data File: 112514CVAA3 W

Analyte	MDL	Conc	Filename
Mercury	4.9E-05	< 4.9E-05	112514CVAA3

Standard Type: CCB
Analysis Date: 11/25/2014 11:00 AM
Analysis Time: 1100
Data File: 112514CVAA3 W

Analyte	MDL	Conc	Filename
Mercury	4.9E-05	< 4.9E-05	112514CVAA3

*** - calibrated by linear regression*

12065 Lebanon Rd
Mt. Juliet, TN 37122
(615) 758-5858
(800) 767-5859
Fax (615) 758-5859
Tax I.D 62-0814289
Est. 1970

Quality Control Summary
SDG: L735181
URS Corporation - Tucson AZ - 1088308

Test: Mercury by CVAA
Project No: 23446543.0057AA
Project: Holloman AFB EPA ID: TN00003
Collection Date: 11/20/2014
Instrument ID: CVAA4

Standard Type: ICB
Analysis Date: 11/25/2014 4:14 PM
Analysis Time: 1614
Data File: 112514CVAA4 W

Analyte	MDL	Conc	Filename
Mercury	4.9E-05	< 4.9E-05	112514CVAA4

Standard Type: CCB
Analysis Date: 11/25/2014 5:16 PM
Analysis Time: 1716
Data File: 112514CVAA4 W

Analyte	MDL	Conc	Filename
Mercury	4.9E-05	< 4.9E-05	112514CVAA4

Standard Type: CCB
Analysis Date: 11/25/2014 6:29 PM
Analysis Time: 1829
Data File: 112514CVAA4 W

Analyte	MDL	Conc	Filename
Mercury	4.9E-05	< 4.9E-05	112514CVAA4

*** - calibrated by linear regression*

Raw Data

Laboratory Bench Sheet

Printed:

Workgroup:	WG756741
Balance Name:	TCLPBAL1
Test:	Mercury
Method:	7470A
Prep Analyst:	628
Prep Date:	112514

Calibration Standards

0.1 ppb	14K20068
0.2ppb	14K20068
0.4 ppb	14K20068
1.0 ppb	14K20068
2.0 ppb	14K20068
5.0 ppb	14K07346

Hot Block

Name:MPA

Temp On:	93 deg C
Temp Off:	96 deg C
Time On:	1120
Time Off:	1320

QC Standards

ICV:	14K07344
ICV Low Level:	14K20068
CCV:	14K07346
CCV Low Level:	14K20068
LCS:	14K07344
MS/MSD:	14K07346

Reagent Standards

HNO3:	14K18881
HCl:	14J02360
KMNO4:	14K18955
K2S2O8:	14J29857
NaCl:	13J04016
H8N2O6S:	14K13670
SnCl:	14I09234
H2SO4:	14K22188
SiO2:	
Aqua Regia:	

Comments:

Worksheet ID:370103

Laboratory Bench Sheet

Printed:

Workgroup:	WG756743
Balance Name:	TCLPBAL1
Test:	Mercury
Method:	7470A
Prep Analyst:	628
Prep Date:	112514

Calibration Standards

0.1 ppb	14K20068
0.2ppb	14K20068
0.4 ppb	14K20068
1.0 ppb	14K20068
2.0 ppb	14K20068
5.0 ppb	14K07346

Hot Block

Name:MPA

Temp On:	93 deg C
Temp Off:	96 deg C
Time On:	1120
Time Off:	1320

QC Standards

ICV:	14K07344
ICV Low Level:	14K20068
CCV:	14K07346
CCV Low Level:	14K20068
LCS:	14K07344
MS/MSD:	14K07346

Reagent Standards

HNO3:	14K18881
HCl:	14J02360
KMNO4:	14K18955
K2S2O8:	14J29857
NaCl:	13J04016
H8N2O6S:	14K13670
SnCl:	14I09234
H2SO4:	14K22188
SiO2:	
Aqua Regia:	

Comments:

Worksheet ID:370103

Laboratory Bench Sheet

Printed:

Workgroup:	WG756562
Balance Name:	TCLPBAL1
Test:	Mercury
Method:	7470A
Prep Analyst:	628
Prep Date:	112514

Calibration Standards

0.1 ppb	14K20068
0.2ppb	14K20068
0.4 ppb	14K20068
1.0 ppb	14K20068
2.0 ppb	14K20068
5.0 ppb	14K07346

Hot Block

Name:	MPB
Temp On:	92 deg C
Temp Off:	98 deg C
Time On:	1120
Time Off:	1320

QC Standards

ICV:	14K07344
ICV Low Level:	14K20068
CCV:	14K07346
CCV Low Level:	14K20068
LCS:	14K07344
MS/MSD:	14K07346

Reagent Standards

HNO3:	14K18881
HCl:	14J02360
KMNO4:	14K18955
K2S2O8:	14J29857
NaCl:	13J04016
H8N2O6S:	14K13670
SnCl:	14I09234
H2SO4:	14K22188
SiO2:	
Aqua Regia:	

Comments:

Worksheet ID:370103

Laboratory Bench Sheet

Printed:

Workgroup:	WG756440
Balance Name:	TCLPBAL1
Test:	Mercury
Method:	7470A
Prep Analyst:	628
Prep Date:	112514

Calibration Standards

0.1 ppb	14K20068
0.2ppb	14K20068
0.4 ppb	14K20068
1.0 ppb	14K20068
2.0 ppb	14K20068
5.0 ppb	14K07346

Hot Block

Name:	MPB
Temp On:	92 deg C
Temp Off:	98 deg C
Time On:	1120
Time Off:	1320

QC Standards

ICV:	14K07344
ICV Low Level:	14K20068
CCV:	14K07346
CCV Low Level:	14K20068
LCS:	14K07344
MS/MSD:	14K07346

Reagent Standards

HNO3:	14K18881
HCl:	14J02360
KMNO4:	14K18955
K2S2O8:	14J29857
NaCl:	13J04016
H8N2O6S:	14K13670
SnCl:	14I09234
H2SO4:	14K22188
SiO2:	
Aqua Regia:	

Comments:

Worksheet ID:370103

Laboratory Bench Sheet

Printed:

Workgroup:	WG756762
Balance Name:	TCLPBAL1
Test:	Mercury
Method:	7470A
Prep Analyst:	628
Prep Date:	112514

Calibration Standards

0.1 ppb	14K20068
0.2ppb	14K20068
0.4 ppb	14K20068
1.0 ppb	14K20068
2.0 ppb	14K20068
5.0 ppb	14K07346

Hot Block

Name:	MPB
Temp On:	92 deg C
Temp Off:	98 deg C
Time On:	1120
Time Off:	1320

QC Standards

ICV:	14K07344
ICV Low Level:	14K20068
CCV:	14K07346
CCV Low Level:	14K20068
LCS:	14K07344
MS/MSD:	14K07346

Reagent Standards

HNO3:	14K18881
HCl:	14J02360
KMNO4:	14K18955
K2S2O8:	14J29857
NaCl:	13J04016
H8N2O6S:	14K13670
SnCl:	14I09234
H2SO4:	14K22188
SiO2:	
Aqua Regia:	

Comments:

Worksheet ID:370103

Laboratory Benchsheet

Sample ID	Matrix	Initial Vol	Prep Vol	Aliquot Vol	Diluted To Vol	Workgroup	Units	Color	Description
BLANK WG756741	TC1	3.0000	30			WG756741	mL	Colorless	Clear
LCS WG756741	TC1	3.0000	30			WG756741	mL	Colorless	Clear
LCSD WG756741	TC1	3.0000	30			WG756741	mL	Colorless	Clear
L735414-01 WG756741	TCLP	3.0000	30			WG756741	mL	Colorless	Clear
MS WG756741 L735414-01	TC1	3.0000	30			WG756741	mL	Colorless	Clear
MSD WG756741 L735414-01	TC1	3.0000	30			WG756741	mL	Colorless	Clear
SD WG756741 L735414-01	TC1	3.0000	30	2	10	WG756741	mL	Colorless	Clear
L735235-08 WG756741	TCLP	3.0000	30			WG756741	mL	Colorless	Clear
MS WG756741 L735235-08	TC1	3.0000	30			WG756741	mL	Colorless	Clear
MSD WG756741 L735235-08	TC1	3.0000	30			WG756741	mL	Colorless	Clear
L735235-02 WG756741	TCLP	3.0000	30			WG756741	mL	Colorless	Clear
L735235-04 WG756741	TCLP	3.0000	30			WG756741	mL	Brown	Clear
L735235-06 WG756741	TCLP	3.0000	30			WG756741	mL	Colorless	Clear
L735235-10 WG756741	TCLP	3.0000	30			WG756741	mL	Yellow	Clear
L735235-12 WG756741	TCLP	3.0000	30			WG756741	mL	Yellow	Clear

Comments:

Worksheet ID:

Laboratory Benchsheet

Sample ID	Matrix	Initial Vol	Prep Vol	Aliquot Vol	Diluted To Vol	Workgroup	Units	Color	Description
L735265-01 WG756741	TCLP	3.0000	30			WG756741	mL	Colorless	Clear
L735265-02 WG756741	TCLP	3.0000	30			WG756741	mL	Colorless	Clear
L735414-02 WG756741	TCLP	3.0000	30			WG756741	mL	Colorless	Clear
INSTBLK WG756741	TC1	30.0000	30			WG756741	mL		
BLANK WG756743	TC2	3.0000	30			WG756743	mL	Colorless	Clear
LCS WG756743	TC2	3.0000	30			WG756743	mL	Colorless	Clear
LCSD WG756743	TC2	3.0000	30			WG756743	mL	Colorless	Clear
L734980-03 WG756743	TCLP	3.0000	30			WG756743	mL	Colorless	Clear
MS WG756743 L734980-03	TC2	3.0000	30			WG756743	mL	Colorless	Clear
MSD WG756743 L734980-03	TC2	3.0000	30			WG756743	mL	Colorless	Clear
SD WG756743 L734980-03	TC2	3.0000	30	2	10	WG756743	mL	Colorless	Clear
L734980-01 WG756743	TCLP	3.0000	30			WG756743	mL	Colorless	Clear
L734980-02 WG756743	TCLP	3.0000	30			WG756743	mL	Colorless	Clear
INSTBLK WG756743	TC2	30.0000	30			WG756743	mL		
BLANK WG756562	GW	30.0000	30			WG756562	mL	Colorless	Clear

Comments:

Worksheet ID:

Laboratory Benchsheet

Sample ID	Matrix	Initial Vol	Prep Vol	Aliquot Vol	Diluted To Vol	Workgroup	Units	Color	Description
LCS WG756562	GW	30.0000	30			WG756562	mL	Colorless	Clear
LCSD WG756562	GW	30.0000	30			WG756562	mL	Colorless	Clear
L735338-10 WG756562	GW	30.0000	30			WG756562	mL	Colorless	Clear
MS WG756562 L735338-10	GW	30.0000	30			WG756562	mL	Colorless	Clear
MSD WG756562 L735338-10	GW	30.0000	30			WG756562	mL	Colorless	Clear
SD WG756562 L735338-10	GW	30.0000	30	2	10	WG756562	mL	Colorless	Clear
L735181-08 WG756562	GW	30.0000	30			WG756562	mL	Brown	Opaque
L735267-21 WG756562	GW	30.0000	30			WG756562	mL	Colorless	Clear
L735338-01 WG756562	GW	30.0000	30			WG756562	mL	Colorless	Clear
L735338-02 WG756562	GW	30.0000	30			WG756562	mL	Colorless	Clear
L735338-03 WG756562	GW	30.0000	30			WG756562	mL	Colorless	Clear
L735338-04 WG756562	GW	30.0000	30			WG756562	mL	Colorless	Clear
L735338-05 WG756562	GW	30.0000	30			WG756562	mL	Colorless	Clear
L735338-06 WG756562	GW	30.0000	30			WG756562	mL	Colorless	Clear
L735338-07 WG756562	GW	30.0000	30			WG756562	mL	Colorless	Clear

Comments:

Worksheet ID:

Laboratory Benchsheet

Sample ID	Matrix	Initial Vol	Prep Vol	Aliquot Vol	Diluted To Vol	Workgroup	Units	Color	Description
L735338-08 WG756562	GW	30.0000	30			WG756562	mL	Colorless	Clear
L735338-09 WG756562	GW	30.0000	30			WG756562	mL	Colorless	Clear
L735377-01 WG756562	GW	30.0000	30			WG756562	mL	Brown	Clear
L735377-02 WG756562	GW	30.0000	30			WG756562	mL	Brown	Clear
L735377-04 WG756562	GW	30.0000	30			WG756562	mL	Colorless	Clear
L735377-05 WG756562	GW	30.0000	30			WG756562	mL	Colorless	Clear
L735431-01 WG756562	GW	30.0000	30			WG756562	mL	Brown	Opaque
L735431-02 WG756562	GW	30.0000	30			WG756562	mL	Brown	Opaque
L735431-03 WG756562	GW	30.0000	30			WG756562	mL	Brown	Opaque
INSTBLK WG756562	GW	30.0000	30			WG756562	mL		
BLANK WG756440	GW	30.0000	30			WG756440	mL	Colorless	Clear
LCS WG756440	GW	30.0000	30			WG756440	mL	Colorless	Clear
LCSD WG756440	GW	30.0000	30			WG756440	mL	Colorless	Clear
L735329-03 WG756440	GW	30.0000	30			WG756440	mL	Colorless	Clear
MS WG756440 L735329-03	GW	30.0000	30			WG756440	mL	Colorless	Clear

Comments:

Worksheet ID:

Laboratory Benchsheet

Sample ID	Matrix	Initial Vol	Prep Vol	Aliquot Vol	Diluted To Vol	Workgroup	Units	Color	Description
MSD WG756440 L735329-03	GW	30.0000	30			WG756440	mL	Colorless	Clear
SD WG756440 L735329-03	GW	30.0000	30	2	10	WG756440	mL	Colorless	Clear
L735329-02 WG756440	GW	30.0000	30			WG756440	mL	Brown	Clear
L735329-04 WG756440	GW	30.0000	30			WG756440	mL	Colorless	Clear
L735329-08 WG756440	GW	30.0000	30			WG756440	mL	Colorless	Clear
L735329-09 WG756440	GW	30.0000	30			WG756440	mL	Brown	Opaque
L735437-04 WG756440	GW	30.0000	30			WG756440	mL	Brown	Opaque
INSTBLK WG756440	GW	30.0000	30			WG756440	mL		
BLANK WG756762	SPLP	30.0000	30			WG756762	mL	Colorless	Clear
LCS WG756762	SPLP	30.0000	30			WG756762	mL	Colorless	Clear
LCSD WG756762	SPLP	30.0000	30			WG756762	mL	Colorless	Clear
L734841-02 WG756762	GW	30.0000	30			WG756762	mL	Colorless	Clear
MS WG756762 L734841-02	SPLP	30.0000	30			WG756762	mL	Colorless	Clear
MSD WG756762 L734841-02	SPLP	30.0000	30			WG756762	mL	Colorless	Clear
SD WG756762 L734841-02	SPLP	30.0000	30	2	10	WG756762	mL	Colorless	Clear

Comments:

Worksheet ID:

Laboratory Benchsheet

Sample ID	Matrix	Initial Vol	Prep Vol	Aliquot Vol	Diluted To Vol	Workgroup	Units	Color	Description
INSTBLK WG756762	SPLP	30.0000	30			WG756762	mL		

Comments:

Worksheet ID:

ENVIRONMENTAL SCIENCE CORP.

Environmental Science Corp.

Work Group Report (wk02)

25-NOV-14 03:19 PM

Work Group: WG756562

Department: 5 Metals

Operator: 657

Created: 24-NOV-14

Due:

Sample	Container	Account Name	Product	Matrix	Status	Collected	Due Date	R Cont. Type	
L735181-08	17706304	URS Corporation - Tucson AZ - 10	HG	GW	HERE	21-NOV-14	01-DEC-14	R5	500mlHDPE-HNO3
L735267-21		Conestoga-Rovers & Assoc., LA	HG	GW	HERE	21-NOV-14	01-DEC-14	R5	
L735338-01	S17658854	Enviro Check, LLC	HG	GW	HERE	21-NOV-14	01-DEC-14	R5	500mlHDPE-HNO3
L735338-02	S17658859	Enviro Check, LLC	HG	GW	HERE	21-NOV-14	01-DEC-14	R5	500mlHDPE-HNO3
L735338-03	S17658864	Enviro Check, LLC	HG	GW	HERE	21-NOV-14	01-DEC-14	R5	500mlHDPE-HNO3
L735338-04	S17658869	Enviro Check, LLC	HG	GW	HERE	21-NOV-14	01-DEC-14	R5	500mlHDPE-HNO3
L735338-05	S17658874	Enviro Check, LLC	HG	GW	HERE	21-NOV-14	01-DEC-14	R5	500mlHDPE-HNO3
L735338-06	S17658879	Enviro Check, LLC	HG	GW	HERE	21-NOV-14	01-DEC-14	R5	500mlHDPE-HNO3
L735338-07	S17658884	Enviro Check, LLC	HG	GW	HERE	21-NOV-14	01-DEC-14	R5	500mlHDPE-HNO3
L735338-08	S17658889	Enviro Check, LLC	HG	GW	HERE	21-NOV-14	01-DEC-14	R5	500mlHDPE-HNO3
L735338-09	S17658894	Enviro Check, LLC	HG	GW	HERE	21-NOV-14	01-DEC-14	R5	500mlHDPE-HNO3
L735338-10	S17658899	Enviro Check, LLC	HG	GW	HERE	21-NOV-14	01-DEC-14	R5	500mlHDPE-HNO3
L735377-01		S&ME Inc. - Spartanburg SC	HG	GW	HERE	20-NOV-14	01-DEC-14	R5	
L735377-02		S&ME Inc. - Spartanburg SC	HG	GW	HERE	20-NOV-14	01-DEC-14	R5	
L735377-04		S&ME Inc. - Spartanburg SC	HG	GW	HERE	20-NOV-14	01-DEC-14	R5	
L735377-05		S&ME Inc. - Spartanburg SC	HG	GW	HERE	20-NOV-14	01-DEC-14	R5	
L735431-01	S17679514	GES-Speedway, PA	HG	GW	HERE	21-NOV-14	01-DEC-14	R5	500mlHDPE-HNO3
L735431-02	S17679519	GES-Speedway, PA	HG	GW	HERE	21-NOV-14	01-DEC-14	R5	500mlHDPE-HNO3
L735431-03	S17679524	GES-Speedway, PA	HG	GW	HERE	21-NOV-14	01-DEC-14	R5	500mlHDPE-HNO3

Comments:

ENVIRONMENTAL SCIENCE CORP.

Environmental Science Corp.

Work Group Report (wk02)

25-NOV-14 03:19 PM

Work Group: WG756440

Department: 5 Metals

Operator: 628

Created: 24-NOV-14

Due:

Sample	Container	Account Name	Product	Matrix	Status	Collected	Due Date	R	Cont. Type
L735329-02	S17684690	BHATE Environmental - Birmingham	HG	GW	HERE	20-NOV-14	01-DEC-14	R5	500mlHDPE-HNO3
L735329-03	S17684660	BHATE Environmental - Birmingham	HG	GW	HERE	20-NOV-14	01-DEC-14	R5	500mlHDPE-HNO3
L735329-04	S17684666	BHATE Environmental - Birmingham	HG	GW	HERE	20-NOV-14	01-DEC-14	R5	500mlHDPE-HNO3
L735329-08	S17684648	BHATE Environmental - Birmingham	HG	GW	HERE	21-NOV-14	01-DEC-14	R5	500mlHDPE-HNO3
L735329-09	S17684654	BHATE Environmental - Birmingham	HG	GW	HERE	21-NOV-14	01-DEC-14	R5	500mlHDPE-HNO3
L735437-04	17707813	AMEC Earth & Environmental - PA	HG	GW	HERE	20-NOV-14	01-DEC-14	R5	500mlHDPE-HNO3

Comments:

ENVIRONMENTAL SCIENCE CORP.

Environmental Science Corp.

Work Group Report (wk02)

25-NOV-14 03:20 PM

Work Group: WG756762

Department: 5 Metals

Operator: 657

Created: 25-NOV-14

Due:

Sample	Container	Account Name	Product	Matrix	Status	Collected	Due Date	R Cont. Type
L734841-02		PSI - San Antonio, TX	HG	GW	HERE	07-NOV-14	28-NOV-14	R5

Comments:

ENVIRONMENTAL SCIENCE CORP.

Environmental Science Corp.

Work Group Report (wk02)

25-NOV-14 03:18 PM

Work Group: WG756743

Department: 5 Metals

Operator: 657

Created: 25-NOV-14

Due:

Sample	Container	Account Name	Product	Matrix	Status	Collected	Due Date	R Cont. Type
L734980-01		CMC Steel Arizona	HG	TCLP	HERE	19-NOV-14	01-DEC-14	R5
L734980-02		CMC Steel Arizona	HG	TCLP	HERE	19-NOV-14	01-DEC-14	R5
L734980-03		CMC Steel Arizona	HG	TCLP	HERE	19-NOV-14	01-DEC-14	R5

Comments:

ENVIRONMENTAL SCIENCE CORP.

Environmental Science Corp.

Work Group Report (wk02)

25-NOV-14 03:16 PM

Work Group: WG756741

Department: 5 Metals

Operator: 657

Created: 25-NOV-14

Due:

Sample	Container	Account Name	Product	Matrix	Status	Collected	Due Date	R Cont. Type	
L735235-02		Summit Environmental - E IN.	HG	TCLP	HERE	21-NOV-14	28-NOV-14	R4	
L735235-04		Summit Environmental - E IN.	HG	TCLP	HERE	21-NOV-14	28-NOV-14	R4	
L735235-06		Summit Environmental - E IN.	HG	TCLP	HERE	21-NOV-14	28-NOV-14	R4	
L735235-08		Summit Environmental - E IN.	HG	TCLP	HERE	21-NOV-14	28-NOV-14	R4	
L735235-10		Summit Environmental - E IN.	HG	TCLP	HERE	21-NOV-14	28-NOV-14	R4	
L735235-12		Summit Environmental - E IN.	HG	TCLP	HERE	21-NOV-14	28-NOV-14	R4	
L735265-01		Conestoga-Rovers & Assoc., LA	HG	TCLP	HERE	21-NOV-14	01-DEC-14	R5	
L735265-02		Conestoga-Rovers & Assoc., LA	HG	TCLP	HERE	21-NOV-14	01-DEC-14	R5	
L735414-01		Marathon Oil Corporation - OH	HG	TCLP	HERE	21-NOV-14	01-DEC-14	D1	
L735414-02		Marathon Oil Corporation - OH	HG	TCLP	HERE	21-NOV-14	01-DEC-14	D1	

Comments:

==========

Analysis Begun

Logged In Analyst: hg4 **Technique: AA FIMS-MHS**
Spectrometer Model: FIMS-100, S/N B050-9550 **Autosampler Model: S10**

Sample Information File: C:\data-FIMS4\Sample Information\112514CVAA4 W.sif
Batch ID: 572
Results Data Set: 112514CVAA4 W
Results Library: C:\data-FIMS4\Results\Results.mdb

==========

Method Loaded
Method Name: Hg Water PPM-TEST **Method Last Saved: 11/14/2014 3:24:00 PM**
Method Description: HgWater

Analyte	Calibration Equation	Wavelength
Hg 253.7	Lin, Calc Int	253.7

==========

Sequence No.: 1 **Autosampler Location: 1**
Sample ID: CALBLK **Date Collected: 11/25/2014 3:47:42 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: CALBLK

Repl #	SampleConc mg/L	StndConc mg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1		[0.00]	0.0001	0.0003	0.0001	15:48:46	Yes
2		[0.00]	0.0000	-0.0011	0.0000	15:49:29	Yes
3		[0.00]	0.0000	-0.0011	0.0000	15:50:13	Yes
Mean:		[0.00]	0.0000				
SD:		0.00	0.0000				
%RSD:		0.00	85.16				

Auto-zero performed.

==========

Sequence No.: 2 **Autosampler Location: 2**
Sample ID: STD1 14K14700 **Date Collected: 11/25/2014 3:50:37 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: STD1 14K14700

Repl #	SampleConc mg/L	StndConc mg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1		[0.00010]	0.0016	0.0149	0.0017	15:51:41	Yes
2		[0.00010]	0.0016	0.0131	0.0016	15:52:25	Yes
3		[0.00010]	0.0016	0.0127	0.0016	15:53:08	Yes
Mean:		[0.00010]	0.0016				
SD:		0.00000	0.0000				
%RSD:		0.00000	1.95				

Standard number 1 applied. [0.00010]
Correlation Coef.: 1.000000 Slope: 16.04216 Intercept: -0.00000

==========

Sequence No.: 3 **Autosampler Location: 3**
Sample ID: STD2 14K14700 **Date Collected: 11/25/2014 3:53:32 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: STD2 14K14700

Repl #	SampleConc mg/L	StndConc mg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1		[0.00020]	0.0030	0.0258	0.0031	15:54:37	Yes
2		[0.00020]	0.0030	0.0265	0.0030	15:55:20	Yes

3	[0.00020]	0.0029	0.0239	0.0029	15:56:05	Yes
Mean:	[0.00020]	0.0030				
SD:	0.00000	0.0001				
%RSD:	0.00000	2.46				

Standard number 2 applied. [0.00020]
Correlation Coef.: 0.998991 Slope: 14.88335 Intercept: 0.00004

==========

Sequence No.: 4 **Autosampler Location: 4**
Sample ID: STD3 14K14700 **Date Collected: 11/25/2014 3:56:29 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: STD3 14K14700

Repl #	SampleConc mg/L	StndConc mg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1		[0.00040]	0.0063	0.0537	0.0063	15:57:33	Yes
2		[0.00040]	0.0061	0.0518	0.0062	15:58:17	Yes
3		[0.00040]	0.0060	0.0498	0.0060	15:59:01	Yes
Mean:		[0.00040]	0.0061				
SD:		0.00000	0.0002				
%RSD:		0.00000	2.49				

Standard number 3 applied. [0.00040]
Correlation Coef.: 0.999705 Slope: 15.22467 Intercept: 0.00001

==========

Sequence No.: 5 **Autosampler Location: 5**
Sample ID: STD4 14K14700 **Date Collected: 11/25/2014 3:59:26 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: STD4 14K14700

Repl #	SampleConc mg/L	StndConc mg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1		[0.00100]	0.0153	0.1269	0.0154	16:00:31	Yes
2		[0.00100]	0.0149	0.1237	0.0150	16:01:15	Yes
3		[0.00100]	0.0152	0.1269	0.0152	16:01:58	Yes
Mean:		[0.00100]	0.0152				
SD:		0.00000	0.0002				
%RSD:		0.00000	1.28				

Standard number 4 applied. [0.00100]
Correlation Coef.: 0.999956 Slope: 15.14315 Intercept: 0.00002

==========

Sequence No.: 6 **Autosampler Location: 6**
Sample ID: STD5 14K14700 **Date Collected: 11/25/2014 4:02:24 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: STD5 14K14700

Repl #	SampleConc mg/L	StndConc mg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1		[0.00200]	0.0333	0.2736	0.0334	16:03:27	Yes
2		[0.00200]	0.0328	0.2662	0.0328	16:04:11	Yes
3		[0.00200]	0.0329	0.2705	0.0330	16:04:54	Yes
Mean:		[0.00200]	0.0330				
SD:		0.00000	0.0003				
%RSD:		0.00000	0.82				

Standard number 5 applied. [0.00200]
Correlation Coef.: 0.999155 Slope: 16.42470 Intercept: -0.00031

==========

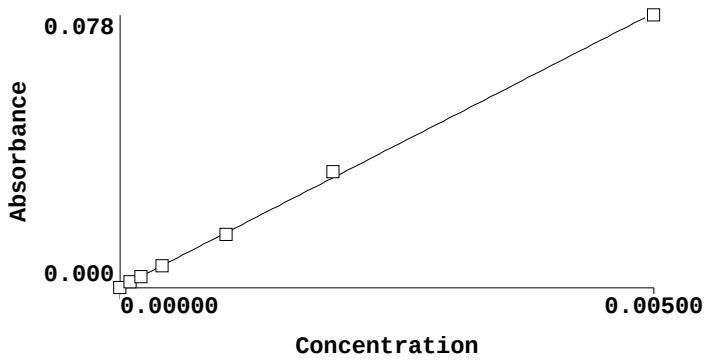
Sequence No.: 7 **Autosampler Location: 7**
Sample ID: STD6 14K07346 **Date Collected: 11/25/2014 4:05:18 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**

Dilution: **Sample Prep Vol:**

Replicate Data: STD6 14K07346

Repl #	SampleConc mg/L	StndConc mg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1		[0.00500]	0.0786	0.6394	0.0787	16:06:22	Yes
2		[0.00500]	0.0775	0.6334	0.0775	16:07:06	Yes
3		[0.00500]	0.0777	0.6303	0.0777	16:07:50	Yes
Mean:		[0.00500]	0.0779				
SD:		0.00000	0.0006				
%RSD:		0.00000	0.79				

Standard number 6 applied. [0.00500]
Correlation Coef.: 0.999654 Slope: 15.67032 Intercept: 0.00007



Calibration data for Hg 253.7 **Equation: Linear, Calculated Intercept**

ID	Mean Signal (Abs)	Entered Conc. mg/L	Calculated Conc. mg/L	Standard Deviation	%RSD
CALBLK	0.0000	0	-0.00000	0.00	85.2
STD1 14K14700	0.0016	0.00010	0.00010	0.00	2.0
STD2 14K14700	0.0030	0.00020	0.00019	0.00	2.5
STD3 14K14700	0.0061	0.00040	0.00039	0.00	2.5
STD4 14K14700	0.0152	0.00100	0.00096	0.00	1.3
STD5 14K14700	0.0330	0.00200	0.00210	0.00	0.8
STD6 14K07346	0.0779	0.00500	0.00497	0.00	0.8

Correlation Coef.: 0.999654 Slope: 15.67032 Intercept: 0.00007

Analytical Sequence
Method: Hg Water PPM-TEST

Seq.	Loc.	ID	Status
1	1	CALBLK	Applied
2	2	STD1 14K14700	Applied
3	3	STD2 14K14700	Applied
4	4	STD3 14K14700	Applied
5	5	STD4 14K14700	Applied
6	6	STD5 14K14700	Applied
7	7	STD6 14K07346	Applied

==========

Analysis Begun

Logged In Analyst: hg4 **Technique: AA FIMS-MHS**
Spectrometer Model: FIMS-100, S/N B050-9550 **Autosampler Model: S10**

Sample Information File: C:\data-FIMS4\Sample Information\112514CVAA4 W.sif
Batch ID: 572
Results Data Set: 112514CVAA4 W
Results Library: C:\data-FIMS4\Results\Results.mdb

==========

Sequence No.: 1 **Autosampler Location: 156**
Sample ID: ICVLL 14K07348 **Date Collected: 11/25/2014 4:08:20 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: ICVLL 14K07348

Repl #	SampleConc mg/L	StndConc mg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.00019	0.00019	0.0031	0.0239	0.0031	16:09:26	Yes
2	0.00019	0.00019	0.0030	0.0249	0.0031	16:10:10	Yes
3	0.00019	0.00019	0.0031	0.0239	0.0031	16:10:54	Yes
Mean:	0.00019	0.00019	0.0031				
SD:	0.00000	0.00000	0.0000				
%RSD:	0.4975	0.4975	0.49				

QC value within limits for Hg 253.7 Recovery = 95.22%
All analyte(s) passed QC.

==========

Sequence No.: 2 **Autosampler Location: 157**
Sample ID: ICV 14K07344 **Date Collected: 11/25/2014 4:11:20 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: ICV 14K07344

Repl #	SampleConc mg/L	StndConc mg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.00282	0.00282	0.0442	0.3635	0.0442	16:12:26	Yes
2	0.00278	0.00278	0.0436	0.3592	0.0436	16:13:10	Yes
3	0.00312	0.00312	0.0489	0.4139	0.0489	16:13:53	Yes
Mean:	0.00290	0.00290	0.0456				
SD:	0.00019	0.00019	0.0029				
%RSD:	6.394	6.394	6.38				

QC value within limits for Hg 253.7 Recovery = 96.78%
All analyte(s) passed QC.

==========

Sequence No.: 3 **Autosampler Location: 1**
Sample ID: ICB **Date Collected: 11/25/2014 4:14:20 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: ICB

Repl #	SampleConc mg/L	StndConc mg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.00000	0.00000	0.0000	-0.0002	0.0001	16:15:23	Yes
2	-0.00001	-0.00001	-0.0000	-0.0006	0.0000	16:16:07	Yes
3	-0.00001	-0.00001	-0.0001	-0.0013	-0.0000	16:16:51	Yes
Mean:	-0.00001	-0.00001	-0.0000				
SD:	0.00000	0.00000	0.0000				
%RSD:	49.63	49.63	326.41				

QC value within limits for Hg 253.7 Recovery = Not calculated
All analyte(s) passed QC.

Sequence No.: 20 **Autosampler Location: 25**
Sample ID: L735265-02 WG756741 **Date Collected: 11/25/2014 5:04:16 PM**
Analyst: 572 **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol: 3 mL**
Dilution: **Sample Prep Vol: 30 mL**

Replicate Data: L735265-02 WG756741

Repl #	SampleConc mg/L	StndConc mg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.00001	0.00000	0.0001	0.0006	0.0001	17:05:21	Yes
2	-0.00004	0.00000	0.0000	-0.0012	0.0001	17:06:05	Yes
3	0.00000	0.00000	0.0001	0.0010	0.0001	17:06:49	Yes
Mean:	-0.00002	0.00000	0.0000				
SD:	0.00002	0.00000	0.0000				
%RSD:	108.5	108.5	64.19				

Sequence No.: 21 **Autosampler Location: 26**
Sample ID: L735414-02 WG756741 **Date Collected: 11/25/2014 5:07:14 PM**
Analyst: 572 **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol: 3 mL**
Dilution: **Sample Prep Vol: 30 mL**

Replicate Data: L735414-02 WG756741

Repl #	SampleConc mg/L	StndConc mg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.00006	-0.00001	-0.0000	-0.0021	0.0000	17:08:18	Yes
2	0.00001	0.00000	0.0001	0.0011	0.0001	17:09:01	Yes
3	0.00003	0.00000	0.0001	0.0024	0.0001	17:09:45	Yes
Mean:	-0.00001	0.00000	0.0001				
SD:	0.00004	0.00000	0.0001				
%RSD:	746.7	746.7	120.61				

Sequence No.: 22 **Autosampler Location: 27**
Sample ID: INSTBLK WG756741 **Date Collected: 11/25/2014 5:10:10 PM**
Analyst: 572 **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol: 30 mL**
Dilution: **Sample Prep Vol: 30 mL**

Replicate Data: INSTBLK WG756741

Repl #	SampleConc mg/L	StndConc mg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.00002	0.00002	0.0003	0.0021	0.0004	17:11:13	Yes
2	0.00000	0.00000	0.0000	0.0000	0.0001	17:11:57	Yes
3	0.00000	0.00000	0.0001	0.0016	0.0001	17:12:41	Yes
Mean:	0.00000	0.00000	0.0001				
SD:	0.00001	0.00001	0.0002				
%RSD:	216.3	216.3	115.49				

Sequence No.: 23 **Autosampler Location: 8**
Sample ID: CCV 14K07346 **Date Collected: 11/25/2014 5:13:05 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: CCV 14K07346

Repl #	SampleConc mg/L	StndConc mg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.00239	0.00239	0.0375	0.3159	0.0375	17:14:09	Yes
2	0.00238	0.00238	0.0373	0.3132	0.0373	17:14:53	Yes
3	0.00236	0.00236	0.0370	0.3104	0.0371	17:15:37	Yes
Mean:	0.00237	0.00237	0.0373				
SD:	0.00001	0.00001	0.0002				
%RSD:	0.6139	0.6139	0.61				

QC value within limits for Hg 253.7 Recovery = 94.97%

All analyte(s) passed QC.

==========

Sequence No.: 24 **Autosampler Location: 1**
Sample ID: CCB **Date Collected: 11/25/2014 5:16:00 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: CCB

Repl #	SampleConc mg/L	StndConc mg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.00001	0.00001	0.0002	0.0034	0.0002	17:17:04	Yes
2	-0.00001	-0.00001	-0.0001	-0.0012	-0.0000	17:17:48	Yes
3	0.00000	0.00000	0.0000	-0.0006	0.0001	17:18:31	Yes
Mean:	0.00000	0.00000	0.0000				
SD:	0.00001	0.00001	0.0001				
%RSD:	603.7	603.7	255.23				

QC value within limits for Hg 253.7 Recovery = Not calculated
All analyte(s) passed QC.

==========

Sequence No.: 25 **Autosampler Location: 28**
Sample ID: BLANK WG756743 **Date Collected: 11/25/2014 5:18:55 PM**
Analyst: 572 **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol: 3 mL**
Dilution: **Sample Prep Vol: 30 mL**

Replicate Data: BLANK WG756743

Repl #	SampleConc mg/L	StndConc mg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.00002	0.00000	0.0000	-0.0004	0.0001	17:19:59	Yes
2	-0.00006	-0.00001	-0.0000	-0.0024	0.0000	17:20:43	Yes
3	-0.00004	0.00000	-0.0000	-0.0003	0.0000	17:21:27	Yes
Mean:	-0.00004	0.00000	0.0000				
SD:	0.00002	0.00000	0.0000				
%RSD:	47.88	47.88	>999.9%				

==========

Sequence No.: 26 **Autosampler Location: 29**
Sample ID: LCS WG756743 **Date Collected: 11/25/2014 5:21:51 PM**
Analyst: 572 **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol: 3 mL**
Dilution: **Sample Prep Vol: 30 mL**

Replicate Data: LCS WG756743

Repl #	SampleConc mg/L	StndConc mg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.02777	0.00278	0.0436	0.3686	0.0436	17:22:55	Yes
2	0.02778	0.00278	0.0436	0.3672	0.0436	17:23:39	Yes
3	0.02770	0.00277	0.0435	0.3659	0.0435	17:24:23	Yes
Mean:	0.02775	0.00278	0.0436				
SD:	0.00005	0.00000	0.0001				
%RSD:	0.1670	0.1670	0.17				

==========

Sequence No.: 27 **Autosampler Location: 30**
Sample ID: LCSD WG756743 **Date Collected: 11/25/2014 5:24:47 PM**
Analyst: 572 **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol: 3 mL**
Dilution: **Sample Prep Vol: 30 mL**

Replicate Data: LCSD WG756743

Repl #	SampleConc mg/L	StndConc mg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.02734	0.00273	0.0429	0.3626	0.0430	17:25:51	Yes
2	0.02733	0.00273	0.0429	0.3598	0.0429	17:26:35	Yes
3	0.02732	0.00273	0.0429	0.3577	0.0429	17:27:19	Yes

Mean:	-0.00021	0.00000	-0.0000
SD:	0.00010	0.00000	0.0000
%RSD:	44.20	44.20	>999.9%

==========

Sequence No.: 32 **Autosampler Location: 35**
Sample ID: L734980-01 WG756743 **Date Collected: 11/25/2014 5:39:27 PM**
Analyst: 572 **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol: 3 mL**
Dilution: **Sample Prep Vol: 30 mL**

Replicate Data: L734980-01 WG756743

Repl #	SampleConc mg/L	StndConc mg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.00009	0.00001	0.0002	0.0042	0.0002	17:40:32	Yes
2	-0.00003	0.00000	0.0000	0.0007	0.0001	17:41:16	Yes
3	-0.00003	0.00000	0.0000	0.0004	0.0001	17:42:00	Yes
Mean:	0.00001	0.00000	0.0001				
SD:	0.00007	0.00001	0.0001				
%RSD:	599.3	599.3	120.94				

==========

Sequence No.: 33 **Autosampler Location: 36**
Sample ID: L734980-02 WG756743 **Date Collected: 11/25/2014 5:42:24 PM**
Analyst: 572 **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol: 3 mL**
Dilution: **Sample Prep Vol: 30 mL**

Replicate Data: L734980-02 WG756743

Repl #	SampleConc mg/L	StndConc mg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.00003	0.00000	0.0000	-0.0015	0.0001	17:43:29	Yes
2	0.00005	0.00001	0.0002	0.0013	0.0002	17:44:13	Yes
3	0.00005	0.00001	0.0002	0.0022	0.0002	17:44:57	Yes
Mean:	0.00002	0.00000	0.0001				
SD:	0.00005	0.00000	0.0001				
%RSD:	202.5	202.5	73.95				

==========

Sequence No.: 34 **Autosampler Location: 37**
Sample ID: INSTBLK WG756743 **Date Collected: 11/25/2014 5:45:22 PM**
Analyst: 572 **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol: 30 mL**
Dilution: **Sample Prep Vol: 30 mL**

Replicate Data: INSTBLK WG756743

Repl #	SampleConc mg/L	StndConc mg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.00001	0.00001	0.0003	0.0017	0.0003	17:46:27	Yes
2	-0.00001	-0.00001	-0.0000	-0.0026	0.0000	17:47:11	Yes
3	0.00000	0.00000	0.0000	0.0003	0.0001	17:47:55	Yes
Mean:	0.00000	0.00000	0.0001				
SD:	0.00001	0.00001	0.0002				
%RSD:	>999.9%	>999.9%	194.92				

==========

Sequence No.: 35 **Autosampler Location: 38**
Sample ID: BLANK WG756562 **Date Collected: 11/25/2014 5:48:20 PM**
Analyst: 572 **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol: 30 mL**
Dilution: **Sample Prep Vol: 30 mL**

Replicate Data: BLANK WG756562

Repl #	SampleConc mg/L	StndConc mg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.00001	-0.00001	-0.0000	-0.0049	-0.0000	17:49:24	Yes
2	0.00000	0.00000	0.0001	0.0006	0.0001	17:50:08	Yes
3	0.00000	0.00000	0.0000	-0.0015	0.0001	17:50:52	Yes

Mean:	0.00000	0.00000	0.0000
SD:	0.00000	0.00000	0.0001
%RSD:	102.8	102.8	386.00

==========

Sequence No.: 36 **Autosampler Location: 39**
Sample ID: LCS WG756562 **Date Collected: 11/25/2014 5:51:16 PM**
Analyst: 572 **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol: 30 mL**
Dilution: **Sample Prep Vol: 30 mL**

Replicate Data: LCS WG756562

Repl #	SampleConc mg/L	StndConc mg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.00277	0.00277	0.0435	0.3665	0.0436	17:52:20	Yes
2	0.00276	0.00276	0.0434	0.3655	0.0434	17:53:03	Yes
3	0.00274	0.00274	0.0431	0.3626	0.0431	17:53:47	Yes
Mean:	0.00276	0.00276	0.0433				
SD:	0.00002	0.00002	0.0002				
%RSD:	0.5569	0.5569	0.56				

==========

Sequence No.: 37 **Autosampler Location: 40**
Sample ID: LCSD WG756562 **Date Collected: 11/25/2014 5:54:11 PM**
Analyst: 572 **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol: 30 mL**
Dilution: **Sample Prep Vol: 30 mL**

Replicate Data: LCSD WG756562

Repl #	SampleConc mg/L	StndConc mg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.00279	0.00279	0.0438	0.3708	0.0438	17:55:15	Yes
2	0.00277	0.00277	0.0434	0.3658	0.0435	17:55:59	Yes
3	0.00278	0.00278	0.0436	0.3690	0.0437	17:56:43	Yes
Mean:	0.00278	0.00278	0.0436				
SD:	0.00001	0.00001	0.0002				
%RSD:	0.4155	0.4155	0.41				

==========

Sequence No.: 38 **Autosampler Location: 41**
Sample ID: L735338-10 WG756562 **Date Collected: 11/25/2014 5:57:08 PM**
Analyst: 572 **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol: 30 mL**
Dilution: **Sample Prep Vol: 30 mL**

Replicate Data: L735338-10 WG756562

Repl #	SampleConc mg/L	StndConc mg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.00000	0.00000	0.0000	-0.0005	0.0001	17:58:12	Yes
2	0.00000	0.00000	0.0001	-0.0000	0.0001	17:58:56	Yes
3	0.00000	0.00000	-0.0000	-0.0009	0.0000	17:59:39	Yes
Mean:	0.00000	0.00000	0.0000				
SD:	0.00000	0.00000	0.0000				
%RSD:	61.86	61.86	171.95				

==========

Sequence No.: 39 **Autosampler Location: 42**
Sample ID: MS WG756562 L735338-10 **Date Collected: 11/25/2014 6:00:04 PM**
Analyst: 572 **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol: 30 mL**
Dilution: **Sample Prep Vol: 30 mL**

Replicate Data: MS WG756562 L735338-10

Repl #	SampleConc mg/L	StndConc mg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.00288	0.00288	0.0452	0.3804	0.0453	18:01:08	Yes
2	0.00285	0.00285	0.0448	0.3784	0.0448	18:01:52	Yes
3	0.00284	0.00284	0.0446	0.3761	0.0446	18:02:35	Yes

Mean:	0.00286	0.00286	0.0449
SD:	0.00002	0.00002	0.0003
%RSD:	0.7335	0.7335	0.73

==========

Sequence No.: 40 **Autosampler Location: 43**
Sample ID: MSD WG756562 L735338-10 **Date Collected: 11/25/2014 6:03:00 PM**
Analyst: 572 **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol: 30 mL**
Dilution: **Sample Prep Vol: 30 mL**

Replicate Data: MSD WG756562 L735338-10

Repl #	SampleConc mg/L	StndConc mg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.00296	0.00296	0.0464	0.3898	0.0465	18:04:04	Yes
2	0.00294	0.00294	0.0461	0.3930	0.0461	18:04:48	Yes
3	0.00291	0.00291	0.0457	0.3872	0.0457	18:05:32	Yes
Mean:	0.00294	0.00294	0.0461				
SD:	0.00002	0.00002	0.0004				
%RSD:	0.7885	0.7885	0.79				

==========

Sequence No.: 41 **Autosampler Location: 44**
Sample ID: SD WG756562 L735338-10 **Date Collected: 11/25/2014 6:05:56 PM**
Analyst: 572 **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol: 30 mL**
Dilution: 5X **Sample Prep Vol: 30 mL**

Replicate Data: SD WG756562 L735338-10

Repl #	SampleConc mg/L	StndConc mg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.00002	0.00000	-0.0000	-0.0015	0.0000	18:07:01	Yes
2	-0.00002	0.00000	-0.0000	-0.0030	0.0000	18:07:45	Yes
3	0.00000	0.00000	0.0001	0.0006	0.0001	18:08:29	Yes
Mean:	-0.00002	0.00000	0.0000				
SD:	0.00001	0.00000	0.0000				
%RSD:	78.51	78.51	197.08				

==========

Sequence No.: 42 **Autosampler Location: 45**
Sample ID: L735181-08 WG756562 **Date Collected: 11/25/2014 6:08:53 PM**
Analyst: 572 **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol: 30 mL**
Dilution: **Sample Prep Vol: 30 mL**

Replicate Data: L735181-08 WG756562

Repl #	SampleConc mg/L	StndConc mg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.00002	0.00002	0.0003	0.0035	0.0004	18:09:57	Yes
2	0.00001	0.00001	0.0003	0.0015	0.0003	18:10:41	Yes
3	0.00002	0.00002	0.0004	0.0051	0.0004	18:11:25	Yes
Mean:	0.00002	0.00002	0.0003				
SD:	0.00000	0.00000	0.0001				
%RSD:	22.59	22.59	17.85				

==========

Sequence No.: 43 **Autosampler Location: 46**
Sample ID: L735267-21 WG756562 **Date Collected: 11/25/2014 6:11:49 PM**
Analyst: 572 **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol: 30 mL**
Dilution: **Sample Prep Vol: 30 mL**

Replicate Data: L735267-21 WG756562

Repl #	SampleConc mg/L	StndConc mg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.00000	0.00000	0.0001	0.0011	0.0001	18:12:54	Yes
2	0.00000	0.00000	0.0000	0.0001	0.0001	18:13:38	Yes
3	0.00000	0.00000	0.0000	0.0006	0.0001	18:14:21	Yes

Mean:	0.00000	0.00000	0.0000
SD:	0.00000	0.00000	0.0000
%RSD:	160.9	160.9	63.56

==========

Sequence No.: 44 **Autosampler Location: 47**
Sample ID: L735338-01 WG756562 **Date Collected: 11/25/2014 6:14:46 PM**
Analyst: 572 **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol: 30 mL**
Dilution: **Sample Prep Vol: 30 mL**

Replicate Data: L735338-01 WG756562

Repl #	SampleConc mg/L	StndConc mg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.00000	0.00000	0.0000	0.0008	0.0001	18:15:51	Yes
2	0.00000	0.00000	0.0001	0.0018	0.0001	18:16:35	Yes
3	0.00000	0.00000	0.0001	0.0017	0.0001	18:17:19	Yes
Mean:	0.00000	0.00000	0.0001				
SD:	0.00000	0.00000	0.0000				
%RSD:	405.1	405.1	42.76				

==========

Sequence No.: 45 **Autosampler Location: 48**
Sample ID: L735338-02 WG756562 **Date Collected: 11/25/2014 6:17:43 PM**
Analyst: 572 **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol: 30 mL**
Dilution: **Sample Prep Vol: 30 mL**

Replicate Data: L735338-02 WG756562

Repl #	SampleConc mg/L	StndConc mg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.00000	0.00000	0.0001	0.0006	0.0001	18:18:48	Yes
2	0.00000	0.00000	0.0000	-0.0003	0.0001	18:19:32	Yes
3	0.00000	0.00000	0.0001	0.0021	0.0001	18:20:16	Yes
Mean:	0.00000	0.00000	0.0001				
SD:	0.00000	0.00000	0.0000				
%RSD:	423.2	423.2	42.77				

==========

Sequence No.: 46 **Autosampler Location: 49**
Sample ID: L735338-03 WG756562 **Date Collected: 11/25/2014 6:20:40 PM**
Analyst: 572 **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol: 30 mL**
Dilution: **Sample Prep Vol: 30 mL**

Replicate Data: L735338-03 WG756562

Repl #	SampleConc mg/L	StndConc mg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.00001	-0.00001	-0.0000	-0.0103	0.0000	18:21:46	Yes
2	0.00000	0.00000	0.0000	0.0004	0.0001	18:22:29	Yes
3	0.00000	0.00000	0.0001	0.0003	0.0001	18:23:13	Yes
Mean:	0.00000	0.00000	0.0000				
SD:	0.00000	0.00000	0.0000				
%RSD:	90.74	90.74	190.27				

==========

Sequence No.: 47 **Autosampler Location: 50**
Sample ID: L735338-04 WG756562 **Date Collected: 11/25/2014 6:23:39 PM**
Analyst: 572 **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol: 30 mL**
Dilution: **Sample Prep Vol: 30 mL**

Replicate Data: L735338-04 WG756562

Repl #	SampleConc mg/L	StndConc mg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.00001	-0.00001	-0.0000	-0.0023	0.0000	18:24:43	Yes
2	-0.00001	-0.00001	-0.0000	-0.0008	0.0000	18:25:27	Yes
3	0.00000	0.00000	0.0000	-0.0003	0.0000	18:26:11	Yes

Mean:	-0.00001	-0.00001	-0.0000
SD:	0.00000	0.00000	0.0000
%RSD:	19.98	19.98	124.04

==========

Sequence No.: 48 **Autosampler Location: 8**
Sample ID: CCV 14K07346 **Date Collected: 11/25/2014 6:26:35 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: CCV 14K07346

Repl #	SampleConc mg/L	StndConc mg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.00236	0.00236	0.0370	0.3153	0.0371	18:27:39	Yes
2	0.00236	0.00236	0.0370	0.3153	0.0371	18:28:23	Yes
3	0.00237	0.00237	0.0371	0.3145	0.0372	18:29:06	Yes
Mean:	0.00236	0.00236	0.0371				
SD:	0.00000	0.00000	0.0001				
%RSD:	0.1465	0.1465	0.15				

QC value within limits for Hg 253.7 Recovery = 94.47%
All analyte(s) passed QC.

==========

Sequence No.: 49 **Autosampler Location: 1**
Sample ID: CCB **Date Collected: 11/25/2014 6:29:31 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: CCB

Repl #	SampleConc mg/L	StndConc mg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.00000	0.00000	0.0001	0.0010	0.0001	18:30:34	Yes
2	0.00000	0.00000	0.0000	0.0001	0.0001	18:31:18	Yes
3	0.00000	0.00000	0.0001	0.0014	0.0001	18:32:02	Yes
Mean:	0.00000	0.00000	0.0001				
SD:	0.00000	0.00000	0.0000				
%RSD:	441.9	441.9	47.91				

QC value within limits for Hg 253.7 Recovery = Not calculated
All analyte(s) passed QC.

==========

Sequence No.: 50 **Autosampler Location: 51**
Sample ID: L735338-05 WG756562 **Date Collected: 11/25/2014 6:32:25 PM**
Analyst: 572 **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol: 30 mL**
Dilution: **Sample Prep Vol: 30 mL**

Replicate Data: L735338-05 WG756562

Repl #	SampleConc mg/L	StndConc mg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.00000	0.00000	0.0000	0.0008	0.0001	18:33:30	Yes
2	0.00000	0.00000	0.0001	0.0007	0.0001	18:34:13	Yes
3	0.00000	0.00000	0.0001	0.0019	0.0001	18:34:57	Yes
Mean:	0.00000	0.00000	0.0001				
SD:	0.00000	0.00000	0.0000				
%RSD:	>999.9%	>999.9%	41.93				

==========

Sequence No.: 51 **Autosampler Location: 52**
Sample ID: L735338-06 WG756562 **Date Collected: 11/25/2014 6:35:22 PM**
Analyst: 572 **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol: 30 mL**
Dilution: **Sample Prep Vol: 30 mL**

Replicate Data: L735338-06 WG756562

Repl	SampleConc	StndConc	BlnkCorr	Peak	Peak	Time	Peak

#	mg/L	mg/L	Signal	Area	Height		Stored
1	0.00000	0.00000	0.0000	0.0000	0.0001	18:36:27	Yes
2	0.00000	0.00000	0.0001	0.0010	0.0001	18:37:11	Yes
3	0.00000	0.00000	0.0000	0.0007	0.0001	18:37:54	Yes
Mean:	0.00000	0.00000	0.0001				
SD:	0.00000	0.00000	0.0000				
%RSD:	290.1	290.1	92.08				

==========

Sequence No.: 52 **Autosampler Location: 53**
Sample ID: L735338-07 WG756562 **Date Collected: 11/25/2014 6:38:19 PM**
Analyst: 572 **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol: 30 mL**
Dilution: **Sample Prep Vol: 30 mL**

Replicate Data: L735338-07 WG756562

Repl #	SampleConc mg/L	StndConc mg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.00000	0.00000	0.0001	0.0007	0.0001	18:39:23	Yes
2	0.00000	0.00000	0.0001	0.0022	0.0001	18:40:07	Yes
3	0.00000	0.00000	0.0000	0.0006	0.0001	18:40:51	Yes
Mean:	0.00000	0.00000	0.0001				
SD:	0.00000	0.00000	0.0000				
%RSD:	638.4	638.4	45.09				

==========

Sequence No.: 53 **Autosampler Location: 54**
Sample ID: L735338-08 WG756562 **Date Collected: 11/25/2014 6:41:16 PM**
Analyst: 572 **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol: 30 mL**
Dilution: **Sample Prep Vol: 30 mL**

Replicate Data: L735338-08 WG756562

Repl #	SampleConc mg/L	StndConc mg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.00000	0.00000	0.0001	-0.0000	0.0001	18:42:20	Yes
2	0.00000	0.00000	0.0001	0.0010	0.0001	18:43:04	Yes
3	0.00000	0.00000	0.0001	0.0019	0.0001	18:43:48	Yes
Mean:	0.00000	0.00000	0.0001				
SD:	0.00000	0.00000	0.0000				
%RSD:	59.73	59.73	12.89				

==========

Sequence No.: 54 **Autosampler Location: 55**
Sample ID: L735338-09 WG756562 **Date Collected: 11/25/2014 6:44:12 PM**
Analyst: 572 **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol: 30 mL**
Dilution: **Sample Prep Vol: 30 mL**

Replicate Data: L735338-09 WG756562

Repl #	SampleConc mg/L	StndConc mg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.00000	0.00000	0.0001	0.0021	0.0001	18:45:17	Yes
2	0.00000	0.00000	0.0000	0.0010	0.0001	18:46:01	Yes
3	0.00000	0.00000	0.0000	0.0005	0.0001	18:46:45	Yes
Mean:	0.00000	0.00000	0.0001				
SD:	0.00000	0.00000	0.0000				
%RSD:	335.5	335.5	79.64				

==========

Sequence No.: 55 **Autosampler Location: 56**
Sample ID: L735377-01 WG756562 **Date Collected: 11/25/2014 6:47:09 PM**
Analyst: 572 **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol: 30 mL**
Dilution: **Sample Prep Vol: 30 mL**

Replicate Data: L735377-01 WG756562

Repl	SampleConc	StndConc	BlnkCorr	Peak	Peak	Time	Peak

#	mg/L	mg/L	Signal	Area	Height		Stored
1	0.00000	0.00000	0.0000	-0.0019	0.0001	18:48:14	Yes
2	0.00000	0.00000	0.0001	-0.0011	0.0001	18:48:58	Yes
3	-0.00001	-0.00001	-0.0000	-0.0017	-0.0000	18:49:41	Yes
Mean:	0.00000	0.00000	0.0000				
SD:	0.00000	0.00000	0.0001				
%RSD:	125.1	125.1	460.73				

==========

Sequence No.: 56 **Autosampler Location: 57**
Sample ID: L735377-02 WG756562 **Date Collected: 11/25/2014 6:50:06 PM**
Analyst: 572 **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol: 30 mL**
Dilution: **Sample Prep Vol: 30 mL**

Replicate Data: L735377-02 WG756562

Repl #	SampleConc mg/L	StndConc mg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.00000	0.00000	0.0000	0.0006	0.0001	18:51:10	Yes
2	0.00000	0.00000	0.0000	-0.0006	0.0000	18:51:54	Yes
3	0.00000	0.00000	0.0000	0.0005	0.0001	18:52:38	Yes
Mean:	0.00000	0.00000	0.0000				
SD:	0.00000	0.00000	0.0000				
%RSD:	56.84	56.84	74.15				

==========

Sequence No.: 57 **Autosampler Location: 58**
Sample ID: L735377-04 WG756562 **Date Collected: 11/25/2014 6:53:02 PM**
Analyst: 572 **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol: 30 mL**
Dilution: **Sample Prep Vol: 30 mL**

Replicate Data: L735377-04 WG756562

Repl #	SampleConc mg/L	StndConc mg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.00003	0.00003	0.0005	0.0049	0.0006	18:54:07	Yes
2	0.00003	0.00003	0.0005	0.0056	0.0005	18:54:51	Yes
3	0.00002	0.00002	0.0005	0.0040	0.0005	18:55:35	Yes
Mean:	0.00003	0.00003	0.0005				
SD:	0.00000	0.00000	0.0000				
%RSD:	7.226	7.226	6.22				

==========

Sequence No.: 58 **Autosampler Location: 59**
Sample ID: L735377-05 WG756562 **Date Collected: 11/25/2014 6:55:59 PM**
Analyst: 572 **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol: 30 mL**
Dilution: **Sample Prep Vol: 30 mL**

Replicate Data: L735377-05 WG756562

Repl #	SampleConc mg/L	StndConc mg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.00000	0.00000	0.0000	-0.0010	0.0000	18:57:04	Yes
2	0.00000	0.00000	0.0001	0.0022	0.0001	18:57:48	Yes
3	0.00000	0.00000	0.0001	-0.0014	0.0001	18:58:32	Yes
Mean:	0.00000	0.00000	0.0001				
SD:	0.00000	0.00000	0.0001				
%RSD:	>999.9%	>999.9%	78.60				

==========

Sequence No.: 59 **Autosampler Location: 60**
Sample ID: L735431-01 WG756562 **Date Collected: 11/25/2014 6:58:56 PM**
Analyst: 572 **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol: 30 mL**
Dilution: **Sample Prep Vol: 30 mL**

Replicate Data: L735431-01 WG756562

Repl	SampleConc	StndConc	BlnkCorr	Peak	Peak	Time	Peak

#	mg/L	mg/L	Signal	Area	Height		Stored
1	0.00006	0.00006	0.0011	0.0091	0.0011	19:00:01	Yes
2	0.00006	0.00006	0.0010	0.0096	0.0011	19:00:45	Yes
3	0.00006	0.00006	0.0010	0.0088	0.0011	19:01:29	Yes
Mean:	0.00006	0.00006	0.0010				
SD:	0.00000	0.00000	0.0000				
%RSD:	1.354	1.354	1.27				

==========

Sequence No.: 60 **Autosampler Location: 8**
Sample ID: CCV 14K07346 **Date Collected: 11/25/2014 7:01:53 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: CCV 14K07346

Repl #	SampleConc mg/L	StndConc mg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.00235	0.00235	0.0369	0.3154	0.0369	19:02:57	Yes
2	0.00233	0.00233	0.0367	0.3133	0.0367	19:03:41	Yes
3	0.00232	0.00232	0.0365	0.3127	0.0365	19:04:25	Yes
Mean:	0.00234	0.00234	0.0367				
SD:	0.00001	0.00001	0.0002				
%RSD:	0.5733	0.5733	0.57				

QC value within limits for Hg 253.7 Recovery = 93.42%
All analyte(s) passed QC.

==========

Sequence No.: 61 **Autosampler Location: 1**
Sample ID: CCB **Date Collected: 11/25/2014 7:04:49 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: CCB

Repl #	SampleConc mg/L	StndConc mg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.00000	0.00000	0.0001	0.0010	0.0001	19:05:53	Yes
2	0.00000	0.00000	-0.0000	-0.0028	0.0000	19:06:37	Yes
3	0.00000	0.00000	0.0000	0.0001	0.0000	19:07:20	Yes
Mean:	0.00000	0.00000	0.0000				
SD:	0.00000	0.00000	0.0000				
%RSD:	60.79	60.79	160.12				

QC value within limits for Hg 253.7 Recovery = Not calculated
All analyte(s) passed QC.

==========

Sequence No.: 62 **Autosampler Location: 61**
Sample ID: L735431-02 WG756562 **Date Collected: 11/25/2014 7:07:44 PM**
Analyst: 572 **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol: 30 mL**
Dilution: **Sample Prep Vol: 30 mL**

Replicate Data: L735431-02 WG756562

Repl #	SampleConc mg/L	StndConc mg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.00026	0.00026	0.0042	0.0345	0.0043	19:08:49	Yes
2	0.00027	0.00027	0.0043	0.0362	0.0043	19:09:32	Yes
3	0.00028	0.00028	0.0044	0.0388	0.0044	19:10:16	Yes
Mean:	0.00027	0.00027	0.0043				
SD:	0.00001	0.00001	0.0001				
%RSD:	2.059	2.059	2.03				

==========

Sequence No.: 63 **Autosampler Location: 62**
Sample ID: L735431-03 WG756562 **Date Collected: 11/25/2014 7:10:42 PM**
Analyst: 572 **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol: 30 mL**
Dilution: **Sample Prep Vol: 30 mL**

Replicate Data: L735431-03 WG756562

Repl #	SampleConc mg/L	StndConc mg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.00074	0.00074	0.0117	0.1002	0.0117	19:11:46	Yes
2	0.00075	0.00075	0.0118	0.1004	0.0118	19:12:30	Yes
3	0.00075	0.00075	0.0118	0.1003	0.0118	19:13:14	Yes
Mean:	0.00075	0.00075	0.0117				
SD:	0.00000	0.00000	0.0000				
%RSD:	0.2686	0.2686	0.27				

Sequence No.: 64
Sample ID: INSTBLK WG756562
Analyst: 572
Initial Sample Wt:
Dilution:
Autosampler Location: 63
Date Collected: 11/25/2014 7:13:39 PM
Data Type: Original
Initial Sample Vol: 30 mL
Sample Prep Vol: 30 mL

Replicate Data: INSTBLK WG756562

Repl #	SampleConc mg/L	StndConc mg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.00001	0.00001	0.0002	0.0005	0.0002	19:14:43	Yes
2	0.00000	0.00000	0.0000	0.0004	0.0001	19:15:27	Yes
3	0.00001	0.00001	0.0002	0.0021	0.0002	19:16:11	Yes
Mean:	0.00000	0.00000	0.0001				
SD:	0.00001	0.00001	0.0001				
%RSD:	131.7	131.7	63.42				

Sequence No.: 65
Sample ID: BLANK WG756440
Analyst: 572
Initial Sample Wt:
Dilution:
Autosampler Location: 64
Date Collected: 11/25/2014 7:16:36 PM
Data Type: Original
Initial Sample Vol: 30 mL
Sample Prep Vol: 30 mL

Replicate Data: BLANK WG756440

Repl #	SampleConc mg/L	StndConc mg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.00000	0.00000	0.0001	0.0031	0.0002	19:17:40	Yes
2	0.00000	0.00000	-0.0000	-0.0024	0.0000	19:18:24	Yes
3	0.00001	0.00001	0.0002	0.0029	0.0002	19:19:08	Yes
Mean:	0.00000	0.00000	0.0001				
SD:	0.00001	0.00001	0.0001				
%RSD:	322.7	322.7	94.56				

Sequence No.: 66
Sample ID: LCS WG756440
Analyst: 572
Initial Sample Wt:
Dilution:
Autosampler Location: 65
Date Collected: 11/25/2014 7:19:33 PM
Data Type: Original
Initial Sample Vol: 30 mL
Sample Prep Vol: 30 mL

Replicate Data: LCS WG756440

Repl #	SampleConc mg/L	StndConc mg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.00271	0.00271	0.0426	0.3659	0.0426	19:20:37	Yes
2	0.00267	0.00267	0.0418	0.3615	0.0419	19:21:21	Yes
3	0.00270	0.00270	0.0423	0.3633	0.0424	19:22:05	Yes
Mean:	0.00269	0.00269	0.0422				
SD:	0.00002	0.00002	0.0004				
%RSD:	0.8779	0.8779	0.88				

Sequence No.: 67
Sample ID: LCSD WG756440
Analyst: 572
Initial Sample Wt:
Dilution:
Autosampler Location: 66
Date Collected: 11/25/2014 7:22:30 PM
Data Type: Original
Initial Sample Vol: 30 mL
Sample Prep Vol: 30 mL

Replicate Data: L735329-09 WG756440

Repl #	SampleConc mg/L	StndConc mg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.00008	0.00008	0.0013	0.0109	0.0014	19:47:12	Yes
2	0.00009	0.00009	0.0014	0.0135	0.0015	19:47:56	Yes
3	0.00008	0.00008	0.0014	0.0122	0.0014	19:48:40	Yes
Mean:	0.00008	0.00008	0.0014				
SD:	0.00000	0.00000	0.0001				
%RSD:	4.365	4.365	4.15				

Sequence No.: 76 **Autosampler Location: 75**
Sample ID: L735437-04 WG756440 **Date Collected: 11/25/2014 7:49:05 PM**
Analyst: 572 **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol: 30 mL**
Dilution: **Sample Prep Vol: 30 mL**

Replicate Data: L735437-04 WG756440

Repl #	SampleConc mg/L	StndConc mg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.00744	0.00744	0.1167	1.0173	0.1167	19:50:09	Yes
Sample concentration is greater than that of the highest standard.							
2	0.00749	0.00749	0.1175	1.0197	0.1175	19:50:53	Yes
Sample concentration is greater than that of the highest standard.							
3	0.00749	0.00749	0.1175	1.0184	0.1175	19:51:37	Yes
Sample concentration is greater than that of the highest standard.							
Mean:	0.00748	0.00748	0.1172				
SD:	0.00003	0.00003	0.0005				
%RSD:	0.3854	0.3854	0.39				
Sample concentration is greater than that of the highest standard.							

Sequence No.: 77 **Autosampler Location: 76**
Sample ID: INSTBLK WG756440 **Date Collected: 11/25/2014 7:52:02 PM**
Analyst: 572 **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol: 30 mL**
Dilution: **Sample Prep Vol: 30 mL**

Replicate Data: INSTBLK WG756440

Repl #	SampleConc mg/L	StndConc mg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.00002	0.00002	0.0003	-0.0001	0.0004	19:53:06	Yes
2	0.00000	0.00000	0.0000	0.0001	0.0001	19:53:50	Yes
3	-0.00001	-0.00001	-0.0000	-0.0004	0.0000	19:54:34	Yes
Mean:	0.00000	0.00000	0.0001				
SD:	0.00001	0.00001	0.0002				
%RSD:	400.3	400.3	161.46				

Sequence No.: 78 **Autosampler Location: 8**
Sample ID: CCV 14K07346 **Date Collected: 11/25/2014 7:54:59 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: CCV 14K07346

Repl #	SampleConc mg/L	StndConc mg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.00230	0.00230	0.0360	0.3165	0.0361	19:56:03	Yes
2	0.00228	0.00228	0.0358	0.3159	0.0358	19:56:47	Yes
3	0.00229	0.00229	0.0359	0.3136	0.0359	19:57:31	Yes
Mean:	0.00229	0.00229	0.0359				
SD:	0.00001	0.00001	0.0001				
%RSD:	0.3616	0.3616	0.36				

QC value within limits for Hg 253.7 Recovery = 91.48%
All analyte(s) passed QC.

Sequence No.: 79 **Autosampler Location: 1**
Sample ID: CCB **Date Collected: 11/25/2014 7:57:55 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: CCB

Repl #	SampleConc mg/L	StndConc mg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.00000	0.00000	0.0001	0.0010	0.0001	19:58:59	Yes
2	0.00000	0.00000	0.0000	0.0005	0.0001	19:59:43	Yes
3	0.00000	0.00000	0.0001	0.0016	0.0001	20:00:26	Yes
Mean:	0.00000	0.00000	0.0001				
SD:	0.00000	0.00000	0.0000				
%RSD:	290.4	290.4	36.55				

QC value within limits for Hg 253.7 Recovery = Not calculated
All analyte(s) passed QC.

Sequence No.: 80 **Autosampler Location: 77**
Sample ID: BLANK WG756762 **Date Collected: 11/25/2014 8:00:50 PM**
Analyst: 572 **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol: 30 mL**
Dilution: **Sample Prep Vol: 30 mL**

Replicate Data: BLANK WG756762

Repl #	SampleConc mg/L	StndConc mg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.00000	0.00000	0.0001	0.0017	0.0002	20:01:54	Yes
2	0.00000	0.00000	-0.0000	-0.0005	0.0000	20:02:38	Yes
3	0.00000	0.00000	0.0001	0.0017	0.0001	20:03:22	Yes
Mean:	0.00000	0.00000	0.0001				
SD:	0.00000	0.00000	0.0001				
%RSD:	>999.9%	>999.9%	96.80				

Sequence No.: 81 **Autosampler Location: 78**
Sample ID: LCS WG756762 **Date Collected: 11/25/2014 8:03:47 PM**
Analyst: 572 **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol: 30 mL**
Dilution: **Sample Prep Vol: 30 mL**

Replicate Data: LCS WG756762

Repl #	SampleConc mg/L	StndConc mg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.00272	0.00272	0.0427	0.3698	0.0427	20:04:52	Yes
2	0.00267	0.00267	0.0419	0.3665	0.0419	20:05:35	Yes
3	0.00268	0.00268	0.0421	0.3676	0.0421	20:06:19	Yes
Mean:	0.00269	0.00269	0.0422				
SD:	0.00003	0.00003	0.0004				
%RSD:	0.9612	0.9612	0.96				

Sequence No.: 82 **Autosampler Location: 79**
Sample ID: LCSD WG756762 **Date Collected: 11/25/2014 8:06:44 PM**
Analyst: 572 **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol: 30 mL**
Dilution: **Sample Prep Vol: 30 mL**

Replicate Data: LCSD WG756762

Repl #	SampleConc mg/L	StndConc mg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.00272	0.00272	0.0426	0.3721	0.0427	20:07:49	Yes
2	0.00270	0.00270	0.0423	0.3713	0.0424	20:08:33	Yes
3	0.00270	0.00270	0.0423	0.3690	0.0424	20:09:17	Yes
Mean:	0.00270	0.00270	0.0424				
SD:	0.00001	0.00001	0.0002				

%RSD: 0.4341 0.4341 0.43

==========

Sequence No.: 83
Sample ID: L734841-02 WG756762
Analyst: 572
Initial Sample Wt:
Dilution:

Autosampler Location: 80
Date Collected: 11/25/2014 8:09:42 PM
Data Type: Original
Initial Sample Vol: 30 mL
Sample Prep Vol: 30 mL

Replicate Data: L734841-02 WG756762

Repl #	SampleConc mg/L	StndConc mg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.00006	0.00006	0.0010	0.0082	0.0010	20:10:47	Yes
2	0.00006	0.00006	0.0011	0.0090	0.0011	20:11:31	Yes
3	0.00006	0.00006	0.0009	0.0075	0.0010	20:12:15	Yes
Mean:	0.00006	0.00006	0.0010				
SD:	0.00000	0.00000	0.0001				
%RSD:	6.910	6.910	6.44				

==========

Sequence No.: 84
Sample ID: MS WG756762 L734841-02
Analyst: 572
Initial Sample Wt:
Dilution:

Autosampler Location: 81
Date Collected: 11/25/2014 8:12:39 PM
Data Type: Original
Initial Sample Vol: 30 mL
Sample Prep Vol: 30 mL

Replicate Data: MS WG756762 L734841-02

Repl #	SampleConc mg/L	StndConc mg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.00280	0.00280	0.0440	0.3890	0.0440	20:13:43	Yes
2	0.00278	0.00278	0.0437	0.3855	0.0437	20:14:27	Yes
3	0.00280	0.00280	0.0440	0.3852	0.0440	20:15:11	Yes
Mean:	0.00280	0.00280	0.0439				
SD:	0.00001	0.00001	0.0002				
%RSD:	0.3973	0.3973	0.40				

==========

Sequence No.: 85
Sample ID: MSD WG756762 L734841-02
Analyst: 572
Initial Sample Wt:
Dilution:

Autosampler Location: 82
Date Collected: 11/25/2014 8:15:36 PM
Data Type: Original
Initial Sample Vol: 30 mL
Sample Prep Vol: 30 mL

Replicate Data: MSD WG756762 L734841-02

Repl #	SampleConc mg/L	StndConc mg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.00296	0.00296	0.0464	0.4086	0.0465	20:16:41	Yes
2	0.00288	0.00288	0.0452	0.4002	0.0453	20:17:25	Yes
3	0.00291	0.00291	0.0457	0.4007	0.0457	20:18:09	Yes
Mean:	0.00292	0.00292	0.0458				
SD:	0.00004	0.00004	0.0006				
%RSD:	1.337	1.337	1.33				

==========

Sequence No.: 86
Sample ID: SD WG756762 L734841-02
Analyst: 572
Initial Sample Wt:
Dilution: 5X

Autosampler Location: 83
Date Collected: 11/25/2014 8:18:34 PM
Data Type: Original
Initial Sample Vol: 30 mL
Sample Prep Vol: 30 mL

Replicate Data: SD WG756762 L734841-02

Repl #	SampleConc mg/L	StndConc mg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.00002	0.00000	0.0000	-0.0002	0.0000	20:19:39	Yes
2	0.00000	0.00000	0.0001	0.0008	0.0001	20:20:22	Yes
3	0.00000	0.00000	0.0001	0.0013	0.0001	20:21:06	Yes
Mean:	-0.00001	0.00000	0.0000				
SD:	0.00001	0.00000	0.0000				

%RSD: 212.0 212.0 76.46

==========

Sequence No.: 87 **Autosampler Location: 84**
Sample ID: INSTBLK WG756762 **Date Collected: 11/25/2014 8:21:31 PM**
Analyst: 572 **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol: 30 mL**
Dilution: **Sample Prep Vol: 30 mL**

Replicate Data: INSTBLK WG756762

Repl #	SampleConc mg/L	StndConc mg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.00001	0.00001	0.0003	0.0005	0.0003	20:22:35	Yes
2	0.00000	0.00000	0.0001	-0.0003	0.0001	20:23:19	Yes
3	0.00000	0.00000	0.0001	0.0010	0.0001	20:24:03	Yes
Mean:	0.00000	0.00000	0.0001				
SD:	0.00001	0.00001	0.0001				
%RSD:	155.7	155.7	82.37				

==========

Sequence No.: 88 **Autosampler Location: 3**
Sample ID: CCVLL 14K14700 **Date Collected: 11/25/2014 8:24:27 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: CCVLL 14K14700

Repl #	SampleConc mg/L	StndConc mg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.00018	0.00018	0.0029	0.0271	0.0030	20:25:31	Yes
2	0.00018	0.00018	0.0028	0.0246	0.0029	20:26:15	Yes
3	0.00018	0.00018	0.0029	0.0258	0.0029	20:26:59	Yes
Mean:	0.00018	0.00018	0.0029				
SD:	0.00000	0.00000	0.0001				
%RSD:	1.932	1.932	1.89				

QC value within limits for Hg 253.7 Recovery = 89.66%
All analyte(s) passed QC.

==========

Sequence No.: 89 **Autosampler Location: 8**
Sample ID: CCV 14K07346 **Date Collected: 11/25/2014 8:27:23 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: CCV 14K07346

Repl #	SampleConc mg/L	StndConc mg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.00227	0.00227	0.0357	0.3142	0.0357	20:28:27	Yes
2	0.00227	0.00227	0.0356	0.3156	0.0357	20:29:11	Yes
3	0.00227	0.00227	0.0356	0.3124	0.0356	20:29:55	Yes
Mean:	0.00227	0.00227	0.0356				
SD:	0.00000	0.00000	0.0000				
%RSD:	0.1069	0.1069	0.11				

QC value within limits for Hg 253.7 Recovery = 90.79%
All analyte(s) passed QC.

==========

Sequence No.: 90 **Autosampler Location: 1**
Sample ID: CCB **Date Collected: 11/25/2014 8:30:18 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: CCB

Repl #	SampleConc mg/L	StndConc mg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.00001	-0.00001	-0.0000	-0.0009	0.0000	20:31:22	Yes

2	-0.00001	-0.00001	-0.0000	-0.0009	0.0000	20:32:06	Yes
3	0.00000	0.00000	0.0000	0.0000	0.0000	20:32:50	Yes
Mean:	-0.00001	-0.00001	-0.0000				
SD:	0.00000	0.00000	0.0000				
%RSD:	18.63	18.63	114.97				

QC value within limits for Hg 253.7 Recovery = Not calculated
All analyte(s) passed QC.

Analytical Sequence
Method: Hg Water PPM-TEST

Seq.	Loc.	ID	Status
1	156	ICVLL 14K07348	QC Passed
2	157	ICV 14K07344	QC Passed
3	1	ICB	QC Passed
4	9	BLANK WG756741	Analyzed
5	10	LCS WG756741	Analyzed
6	11	LCSD WG756741	Analyzed
7	12	L735414-01 WG756741	Analyzed
8	13	MS WG756741 L735414-01	Analyzed
9	14	MSD WG756741 L735414-01	Analyzed
10	15	SD WG756741 L735414-01	Analyzed
11	16	L735235-08 WG756741	Analyzed
12	17	MS WG756741 L735235-08	Analyzed
13	18	MSD WG756741 L735235-08	Analyzed
14	19	L735235-02 WG756741	Analyzed
15	20	L735235-04 WG756741	Analyzed
16	21	L735235-06 WG756741	Analyzed
17	22	L735235-10 WG756741	Analyzed
18	23	L735235-12 WG756741	Analyzed
19	24	L735265-01 WG756741	Analyzed
20	25	L735265-02 WG756741	Analyzed
21	26	L735414-02 WG756741	Analyzed
22	27	INSTBLK WG756741	Analyzed
23	8	CCV 14K07346	QC Passed
24	1	CCB	QC Passed
25	28	BLANK WG756743	Analyzed
26	29	LCS WG756743	Analyzed
27	30	LCSD WG756743	Analyzed
28	31	L734980-03 WG756743	Analyzed
29	32	MS WG756743 L734980-03	Analyzed
30	33	MSD WG756743 L734980-03	Analyzed
31	34	SD WG756743 L734980-03	Analyzed
32	35	L734980-01 WG756743	Analyzed
33	36	L734980-02 WG756743	Analyzed
34	37	INSTBLK WG756743	Analyzed
35	38	BLANK WG756562	Analyzed
36	39	LCS WG756562	Analyzed
37	40	LCSD WG756562	Analyzed
38	41	L735338-10 WG756562	Analyzed
39	42	MS WG756562 L735338-10	Analyzed
40	43	MSD WG756562 L735338-10	Analyzed
41	44	SD WG756562 L735338-10	Analyzed
42	45	L735181-08 WG756562	Analyzed
43	46	L735267-21 WG756562	Analyzed
44	47	L735338-01 WG756562	Analyzed
45	48	L735338-02 WG756562	Analyzed
46	49	L735338-03 WG756562	Analyzed
47	50	L735338-04 WG756562	Analyzed
48	8	CCV 14K07346	QC Passed
49	1	CCB	QC Passed
50	51	L735338-05 WG756562	Analyzed
51	52	L735338-06 WG756562	Analyzed
52	53	L735338-07 WG756562	Analyzed
53	54	L735338-08 WG756562	Analyzed
54	55	L735338-09 WG756562	Analyzed
55	56	L735377-01 WG756562	Analyzed
56	57	L735377-02 WG756562	Analyzed
57	58	L735377-04 WG756562	Analyzed
58	59	L735377-05 WG756562	Analyzed
59	60	L735431-01 WG756562	Analyzed
60	8	CCV 14K07346	QC Passed
61	1	CCB	QC Passed

62	61	L735431-02 WG756562	Analyzed
63	62	L735431-03 WG756562	Analyzed
64	63	INSTBLK WG756562	Analyzed
65	64	BLANK WG756440	Analyzed
66	65	LCS WG756440	Analyzed
67	66	LCSD WG756440	Analyzed
68	67	L735329-03 WG756440	Analyzed
69	68	MS WG756440 L735329-03	Analyzed
70	69	MSD WG756440 L735329-03	Analyzed
71	70	SD WG756440 L735329-03	Analyzed
72	71	L735329-02 WG756440	Analyzed
73	72	L735329-04 WG756440	Analyzed
74	73	L735329-08 WG756440	Analyzed
75	74	L735329-09 WG756440	Analyzed
76	75	L735437-04 WG756440	Analyzed
77	76	INSTBLK WG756440	Analyzed
78	8	CCV 14K07346	QC Passed
79	1	CCB	QC Passed
80	77	BLANK WG756762	Analyzed
81	78	LCS WG756762	Analyzed
82	79	LCSD WG756762	Analyzed
83	80	L734841-02 WG756762	Analyzed
84	81	MS WG756762 L734841-02	Analyzed
85	82	MSD WG756762 L734841-02	Analyzed
86	83	SD WG756762 L734841-02	Analyzed
87	84	INSTBLK WG756762	Analyzed
88	3	CCVLL 14K14700	QC Passed
89	8	CCV 14K07346	QC Passed
90	1	CCB	QC Passed

Laboratory Bench Sheet

Printed:11/25/2014 14:21

Workgroup:	WG756454
Balance Name:	TCLPBAL1
Test:	Mercury
Method:	7470A
Prep Analyst:	657
Prep Date:	112414

Calibration Standards

0.1 ppb	14K20068
0.2ppb	14K20068
0.4 ppb	14K20068
1.0 ppb	14K20068
2.0 ppb	14K20068
5.0 ppb	14K07346

Hot Block

Name:HGA

Temp On:	93 deg C
Temp Off:	96 deg C
Time On:	1135
Time Off:	1335

QC Standards

ICV:	14K07344
ICV Low Level:	14K20068
CCV:	14K07346
CCV Low Level:	14K20068
LCS:	14K07344
MS/MSD:	14K07346

Reagent Standards

HNO3:	14K18881
HCl:	14J02360
KMNO4:	14K18955
K2S2O8:	14J29857
NaCl:	13J04016
H8N2O6S:	14K13670
SnCl:	14I09234
H2SO4:	14K06266
SiO2:	
Aqua Regia:	

Comments:

Worksheet ID:369982

Laboratory Bench Sheet

Printed:11/25/2014 14:21

Workgroup:	WG756305
Balance Name:	TCLPBAL1
Test:	Mercury
Method:	7470A
Prep Analyst:	657
Prep Date:	112414

Calibration Standards

0.1 ppb	14K20068
0.2ppb	14K20068
0.4 ppb	14K20068
1.0 ppb	14K20068
2.0 ppb	14K20068
5.0 ppb	14K07346

Hot Block

Name:	HGB
Temp On:	95 deg C
Temp Off:	96 deg C
Time On:	1135
Time Off:	1335

QC Standards

ICV:	14K07344
ICV Low Level:	14K20068
CCV:	14K07346
CCV Low Level:	14K20068
LCS:	14K07344
MS/MSD:	14K07346

Reagent Standards

HNO3:	14K18881
HCl:	14J02360
KMNO4:	14K18955
K2S2O8:	14J29857
NaCl:	13J04016
H8N2O6S:	14K13670
SnCl:	14I09234
H2SO4:	14K06266
SiO2:	
Aqua Regia:	

Comments:

Worksheet ID:369982

Laboratory Bench Sheet

Printed:11/25/2014 14:21

Workgroup:	WG756318
Balance Name:	TCLPBAL1
Test:	Mercury
Method:	7470A
Prep Analyst:	657
Prep Date:	112414

Calibration Standards

0.1 ppb	14K20068
0.2ppb	14K20068
0.4 ppb	14K20068
1.0 ppb	14K20068
2.0 ppb	14K20068
5.0 ppb	14K07346

Hot Block

Name:	HGB
Temp On:	95 deg C
Temp Off:	96 deg C
Time On:	1135
Time Off:	1335

QC Standards

ICV:	14K07344
ICV Low Level:	14K20068
CCV:	14K07346
CCV Low Level:	14K20068
LCS:	14K07344
MS/MSD:	14K07346

Reagent Standards

HNO3:	14K18881
HCl:	14J02360
KMNO4:	14K18955
K2S2O8:	14J29857
NaCl:	13J04016
H8N2O6S:	14K13670
SnCl:	14I09234
H2SO4:	14K06266
SiO2:	
Aqua Regia:	

Comments:

Worksheet ID:369982

Laboratory Bench Sheet

Printed:11/25/2014 14:21

Workgroup:	WG756454
Balance Name:	TCLPBAL1
Test:	Mercury
Method:	7470A
Prep Analyst:	657
Prep Date:	112514

Calibration Standards

0.1 ppb	14K20068
0.2ppb	14K20068
0.4 ppb	14K20068
1.0 ppb	14K20068
2.0 ppb	14K20068
5.0 ppb	14K07346

Hot Block

Name:HGA

Temp On:	94 deg C
Temp Off:	94 deg C
Time On:	805
Time Off:	1005

QC Standards

ICV:	14K07344
ICV Low Level:	14K20068
CCV:	14K07346
CCV Low Level:	14K20068
LCS:	14K07344
MS/MSD:	14K07346

Reagent Standards

HNO3:	14K18881
HCl:	14J02360
KMNO4:	14K18955
K2S2O8:	14J29857
NaCl:	13J04016
H8N2O6S:	14K13670
SnCl:	14I09234
H2SO4:	14K06266
SiO2:	
Aqua Regia:	

Comments:

Worksheet ID:369982

Laboratory Benchsheet

Sample ID	Matrix	Initial Vol	Prep Vol	Aliquot Vol	Diluted To Vol	Workgroup	Units	Color	Description
BLANK WG756454	TC1	3.0000	30			WG756454	mL	Colorless	Clear
LCS WG756454	TC1	3.0000	30			WG756454	mL	Colorless	Clear
LCSD WG756454	TC1	3.0000	30			WG756454	mL	Colorless	Clear
L734873-01 WG756454	TCLP	3.0000	30			WG756454	mL	Colorless	Clear
MS WG756454 L734873-01	TC1	3.0000	30			WG756454	mL	Colorless	Clear
MSD WG756454 L734873-01	TC1	3.0000	30			WG756454	mL	Colorless	Clear
SD WG756454 L734873-01	TC1	3.0000	30	2	10	WG756454	mL	Colorless	Clear
L734847-02 WG756454	TCLP	3.0000	30			WG756454	mL	Colorless	Clear
L734888-01 WG756454	TCLP	3.0000	30			WG756454	mL	Colorless	Clear
L734895-01 WG756454	TCLP	3.0000	30			WG756454	mL	Colorless	Clear
L734901-01 WG756454	TCLP	3.0000	30			WG756454	mL	Colorless	Clear
L734902-01 WG756454	TCLP	3.0000	30			WG756454	mL	Colorless	Clear
L734910-01 WG756454	TCLP	3.0000	30			WG756454	mL	Colorless	Clear
L734912-02 WG756454	TCLP	3.0000	30			WG756454	mL	Brown	Clear
L734912-04 WG756454	TCLP	3.0000	30			WG756454	mL	Colorless	Clear

Comments:

Worksheet ID:

Laboratory Benchsheet

Sample ID	Matrix	Initial Vol	Prep Vol	Aliquot Vol	Diluted To Vol	Workgroup	Units	Color	Description
L734912-06 WG756454	TCLP	3.0000	30			WG756454	mL	Colorless	Clear
L734912-08 WG756454	TCLP	3.0000	30			WG756454	mL	Colorless	Clear
L734912-10 WG756454	TCLP	3.0000	30			WG756454	mL	Colorless	Clear
L734912-12 WG756454	TCLP	3.0000	30			WG756454	mL	Colorless	Clear
L734912-14 WG756454	TCLP	3.0000	30			WG756454	mL	Colorless	Clear
L734912-16 WG756454	TCLP	3.0000	30			WG756454	mL	Colorless	Clear
L734949-01 WG756454	TCLP	3.0000	30			WG756454	mL	Colorless	Clear
L735221-02 WG756454	TCLP	3.0000	30			WG756454	mL	Colorless	Clear
L735221-04 WG756454	TCLP	3.0000	30			WG756454	mL	Colorless	Clear
L735223-02 WG756454	TCLP	3.0000	30			WG756454	mL	Colorless	Clear
INSTBLK WG756454	TC1	30.0000	30			WG756454	mL		
BLANK WG756305	GW	30.0000	30			WG756305	mL	Colorless	Clear
LCS WG756305	GW	30.0000	30			WG756305	mL	Colorless	Clear
LCSD WG756305	GW	30.0000	30			WG756305	mL	Colorless	Clear
L735312-04 WG756305	GW	30.0000	30			WG756305	mL	Colorless	Clear

Comments:

Worksheet ID:

Laboratory Benchsheet

Sample ID	Matrix	Initial Vol	Prep Vol	Aliquot Vol	Diluted To Vol	Workgroup	Units	Color	Description
MS WG756305 L735312-04	GW	30.0000	30			WG756305	mL	Colorless	Clear
MSD WG756305 L735312-04	GW	30.0000	30			WG756305	mL	Colorless	Clear
SD WG756305 L735312-04	GW	30.0000	30	2	10	WG756305	mL	Colorless	Clear
L734916-01 WG756305	GW	30.0000	30			WG756305	mL	Colorless	Clear
L734916-02 WG756305	GW	30.0000	30			WG756305	mL	Colorless	Clear
L734941-01 WG756305	GW	30.0000	30			WG756305	mL	Colorless	Clear
L734964-01 WG756305	GW	30.0000	30			WG756305	mL	Colorless	Clear
L734964-04 WG756305	GW	30.0000	30			WG756305	mL	Colorless	Clear
L734964-06 WG756305	GW	30.0000	30			WG756305	mL	Colorless	Clear
L734964-09 WG756305	GW	30.0000	30			WG756305	mL	Colorless	Clear
L734993-01 WG756305	GW	30.0000	30			WG756305	mL	Colorless	Clear
L734993-02 WG756305	GW	30.0000	30			WG756305	mL	Colorless	Clear
L734993-03 WG756305	GW	30.0000	30			WG756305	mL	Colorless	Clear
L734993-05 WG756305	GW	30.0000	30			WG756305	mL	Colorless	Clear
L734993-06 WG756305	GW	30.0000	30			WG756305	mL	Colorless	Clear

Comments:

Worksheet ID:

Laboratory Benchsheet

Sample ID	Matrix	Initial Vol	Prep Vol	Aliquot Vol	Diluted To Vol	Workgroup	Units	Color	Description
L735312-01 WG756305	GW	30.0000	30			WG756305	mL	Colorless	Clear
L735312-02 WG756305	GW	30.0000	30			WG756305	mL	Colorless	Clear
L735312-03 WG756305	GW	30.0000	30			WG756305	mL	Colorless	Clear
L735312-06 WG756305	GW	30.0000	30			WG756305	mL	Colorless	Clear
L735312-08 WG756305	GW	30.0000	30			WG756305	mL	Colorless	Clear
L735312-09 WG756305	GW	30.0000	30			WG756305	mL	Colorless	Clear
L735312-10 WG756305	GW	30.0000	30			WG756305	mL	Colorless	Clear
INSTBLK WG756305	GW	30.0000	30			WG756305	mL		
BLANK WG756318	GWD	30.0000	30			WG756318	mL	Colorless	Clear
LCS WG756318	GWD	30.0000	30			WG756318	mL	Colorless	Clear
LCSD WG756318	GWD	30.0000	30			WG756318	mL	Colorless	Clear
L735015-02 WG756318	GW	30.0000	30			WG756318	mL	Colorless	Clear
MS WG756318 L735015-02	GWD	30.0000	30			WG756318	mL	Colorless	Clear
MSD WG756318 L735015-02	GWD	30.0000	30			WG756318	mL	Colorless	Clear
SD WG756318 L735015-02	GWD	30.0000	30	2	10	WG756318	mL	Colorless	Clear

Comments:

Worksheet ID:

Laboratory Benchsheet

Sample ID	Matrix	Initial Vol	Prep Vol	Aliquot Vol	Diluted To Vol	Workgroup	Units	Color	Description
L734231-15 WG756318	GW	30.0000	30			WG756318	mL	Colorless	Clear
L734231-18 WG756318	GW	30.0000	30			WG756318	mL	Colorless	Clear
L734231-21 WG756318	GW	30.0000	30			WG756318	mL	Colorless	Clear
L734231-23 WG756318	GW	30.0000	30			WG756318	mL	Colorless	Clear
L735015-03 WG756318	GW	30.0000	30			WG756318	mL	Colorless	Clear
L735015-04 WG756318	GW	30.0000	30			WG756318	mL	Colorless	Clear
L735015-06 WG756318	GW	30.0000	30			WG756318	mL	Colorless	Clear
L735015-07 WG756318	GW	30.0000	30			WG756318	mL	Colorless	Clear
L735015-10 WG756318	GW	30.0000	30			WG756318	mL	Colorless	Clear
L735137-07 WG756318	GW	30.0000	30			WG756318	mL	Brown	Clear
L735181-09 WG756318	GW	30.0000	30			WG756318	mL	Colorless	Clear
L735318-06 WG756318	GW	30.0000	30			WG756318	mL	Colorless	Clear
L735318-09 WG756318	GW	30.0000	30			WG756318	mL	Colorless	Clear
INSTBLK WG756318	GWD	30.0000	30			WG756318	mL		
BLANK WG756454	TC1	3.0000	30			WG756454	mL	Colorless	Clear

Comments:

Worksheet ID:

Laboratory Benchsheet

Sample ID	Matrix	Initial Vol	Prep Vol	Aliquot Vol	Diluted To Vol	Workgroup	Units	Color	Description
LCS WG756454	TC1	3.0000	30			WG756454	mL	Colorless	Clear
LCSD WG756454	TC1	3.0000	30			WG756454	mL	Colorless	Clear
L734873-01 WG756454	TCLP	3.0000	30			WG756454	mL	Colorless	Clear
MS WG756454 L734873-01	TC1	3.0000	30			WG756454	mL	Colorless	Clear
MSD WG756454 L734873-01	TC1	3.0000	30			WG756454	mL	Colorless	Clear
SD WG756454 L734873-01	TC1	3.0000	30	2	10	WG756454	mL	Colorless	Clear
L734847-02 WG756454	TCLP	3.0000	30			WG756454	mL	Colorless	Clear
L734888-01 WG756454	TCLP	3.0000	30			WG756454	mL	Colorless	Clear
L734895-01 WG756454	TCLP	3.0000	30			WG756454	mL	Colorless	Clear
L734901-01 WG756454	TCLP	3.0000	30			WG756454	mL	Colorless	Clear
L734902-01 WG756454	TCLP	3.0000	30			WG756454	mL	Colorless	Clear
L734910-01 WG756454	TCLP	3.0000	30			WG756454	mL	Colorless	Clear
L734912-02 WG756454	TCLP	3.0000	30			WG756454	mL	Brown	Clear
L734912-04 WG756454	TCLP	3.0000	30			WG756454	mL	Colorless	Clear
L734912-06 WG756454	TCLP	3.0000	30			WG756454	mL	Colorless	Clear

Comments:

Worksheet ID:

Laboratory Benchsheet

Sample ID	Matrix	Initial Vol	Prep Vol	Aliquot Vol	Diluted To Vol	Workgroup	Units	Color	Description
L734912-08 WG756454	TCLP	3.0000	30			WG756454	mL	Colorless	Clear
L734912-10 WG756454	TCLP	3.0000	30			WG756454	mL	Colorless	Clear
L734912-12 WG756454	TCLP	3.0000	30			WG756454	mL	Colorless	Clear
L734912-14 WG756454	TCLP	3.0000	30			WG756454	mL	Colorless	Clear
L734912-16 WG756454	TCLP	3.0000	30			WG756454	mL	Colorless	Clear
L734949-01 WG756454	TCLP	3.0000	30			WG756454	mL	Colorless	Clear
L735221-02 WG756454	TCLP	3.0000	30			WG756454	mL	Colorless	Clear
L735221-04 WG756454	TCLP	3.0000	30			WG756454	mL	Colorless	Clear
L735223-02 WG756454	TCLP	3.0000	30			WG756454	mL	Colorless	Clear
INSTBLK WG756454	TC1	30.0000	30			WG756454	mL		

Comments:

Worksheet ID:

ENVIRONMENTAL SCIENCE CORP.

Environmental Science Corp.

Work Group Report (wk02)

25-NOV-14 06:14 AM

Work Group: WG756454

Department: 5 Metals

Operator: 657

Created: 24-NOV-14

Due:

Sample	Container	Account Name	Product	Matrix	Status	Collected	Due Date	R Cont. Type	
L734847-02		Kansas City Board of Public Utilities	HG	TCLP	HERE	19-NOV-14	28-NOV-14	R5	
L734873-01		Marathon Petroluem - Brecksville O	HG	TCLP	HERE	19-NOV-14	26-NOV-14	R4	
L734888-01		Spectrum Environmental, Inc.	HG	TCLP	HERE	20-NOV-14	26-NOV-14	R4	
L734895-01		Spectrum Environmental, Inc.	HG	TCLP	HERE	20-NOV-14	26-NOV-14	R4	
L734901-01		Spectrum Environmental, Inc.	HG	TCLP	HERE	20-NOV-14	26-NOV-14	R4	
L734902-01		Spectrum Environmental, Inc.	HG	TCLP	HERE	20-NOV-14	26-NOV-14	R4	
L734910-01		Marathon Petroluem - Brecksville O	HG	TCLP	HERE	19-NOV-14	26-NOV-14	R4	
L734912-02		Mirror Image Environmental Solutio	HG	TCLP	HERE	20-NOV-14	26-NOV-14	R4	
L734912-04		Mirror Image Environmental Solutio	HG	TCLP	HERE	20-NOV-14	26-NOV-14	R4	
L734912-06		Mirror Image Environmental Solutio	HG	TCLP	HERE	20-NOV-14	26-NOV-14	R4	
L734912-08		Mirror Image Environmental Solutio	HG	TCLP	HERE	20-NOV-14	26-NOV-14	R4	
L734912-10		Mirror Image Environmental Solutio	HG	TCLP	HERE	20-NOV-14	26-NOV-14	R4	
L734912-12		Mirror Image Environmental Solutio	HG	TCLP	HERE	20-NOV-14	26-NOV-14	R4	
L734912-14		Mirror Image Environmental Solutio	HG	TCLP	HERE	20-NOV-14	26-NOV-14	R4	
L734912-16		Mirror Image Environmental Solutio	HG	TCLP	HERE	20-NOV-14	26-NOV-14	R4	
L734949-01		Marathon Petroluem - Brecksville O	HG	TCLP	HERE	19-NOV-14	25-NOV-14	R3	
L735221-02		Liberty Services - Ft Worth, TX	HG	TCLP	HERE	21-NOV-14	25-NOV-14	R1	
L735221-04		Liberty Services - Ft Worth, TX	HG	TCLP	HERE	21-NOV-14	25-NOV-14	R1	
L735223-02		SET Environmental, Inc - Dallas, TX	HG	TCLP	HERE	21-NOV-14	28-NOV-14	R4	

Comments:

ENVIRONMENTAL SCIENCE CORP.

Environmental Science Corp.

Work Group Report (wk02)

25-NOV-14 06:15 AM

Work Group: WG756305

Department: 4 Metals Prep

Operator: 572

Created: 22-NOV-14

Due:

Sample	Container	Account Name	Product	Matrix	Status	Collected	Due Date	R Cont. Type	
L734916-01	S17330712	SCS Aquaterra	HG	GW	DONE	20-NOV-14	01-DEC-14	R5	500mlHDPE-Add H
L734916-02	S17330726	SCS Aquaterra	HG	GW	DONE	20-NOV-14	01-DEC-14	R5	500mlHDPE-Add H
L734941-01	17698849	Terracon - Port Allen, LA	HG	GW	DONE	20-NOV-14	01-DEC-14	R5	500mlHDPE-HNO3
L734964-01	17699452	AMEC Env. & Infrastructure - Lexing	HG	GW	DONE	20-NOV-14	01-DEC-14	D1	500mlHDPE-HNO3
L734964-04	17699470	AMEC Env. & Infrastructure - Lexing	HG	GW	DONE	20-NOV-14	01-DEC-14	D1	500mlHDPE-HNO3
L734964-06	17699484	AMEC Env. & Infrastructure - Lexing	HG	GW	DONE	20-NOV-14	01-DEC-14	D1	500mlHDPE-HNO3
L734964-09	17699502	AMEC Env. & Infrastructure - Lexing	HG	GW	DONE	20-NOV-14	01-DEC-14	D1	500mlHDPE-HNO3
L734993-01	S17330649	SCS Aquaterra	HG	GW	DONE	20-NOV-14	01-DEC-14	R5	500mlHDPE-Add H
L734993-02	S17330656	SCS Aquaterra	HG	GW	DONE	20-NOV-14	01-DEC-14	R5	500mlHDPE-Add H
L734993-03	S17330663	SCS Aquaterra	HG	GW	DONE	20-NOV-14	01-DEC-14	R5	500mlHDPE-Add H
L734993-05	S17330698	SCS Aquaterra	HG	GW	DONE	20-NOV-14	01-DEC-14	R5	500mlHDPE-Add H
L734993-06	S17330620	SCS Aquaterra	HG	GW	DONE	20-NOV-14	01-DEC-14	R5	500mlHDPE-Add H
L735312-01	S17330705	SCS Aquaterra	HG	GW	DONE	21-NOV-14	01-DEC-14	R5	500mlHDPE-Add H
L735312-02	17705345	SCS Aquaterra	HG	GW	DONE	21-NOV-14	01-DEC-14	R5	500mlHDPE-Add H
L735312-03	17705352	SCS Aquaterra	HG	GW	DONE	21-NOV-14	01-DEC-14	R5	500mlHDPE-Add H
L735312-04	17705359	SCS Aquaterra	HG	GW	DONE	21-NOV-14	01-DEC-14	R5	500mlHDPE-Add H
L735312-06	17705373	SCS Aquaterra	HG	GW	DONE	21-NOV-14	01-DEC-14	R5	500mlHDPE-Add H
L735312-08	17705382	SCS Aquaterra	HG	GW	DONE	21-NOV-14	01-DEC-14	R5	500mlHDPE-Add H
L735312-09	17705389	SCS Aquaterra	HG	GW	DONE	21-NOV-14	01-DEC-14	R5	500mlHDPE-Add H
L735312-10	17705396	SCS Aquaterra	HG	GW	DONE	21-NOV-14	01-DEC-14	R5	500mlHDPE-Add H

Comments:

L734916-01	Needs MDNR EDD
L734916-02	Needs MDNR EDD
L734964-01	Need 1X dilution on 8270BN.
L734964-04	Need 1X dilution on 8270BN.

ENVIRONMENTAL SCIENCE CORP.

Environmental Science Corp.

Work Group Report (wk02)

25-NOV-14 06:15 AM

2 2

Work Group: WG756305

Department: 4 Metals Prep

Operator: 572

Created: 22-NOV-14

Due:

Sample	Container	Account Name	Product	Matrix	Status	Collected	Due Date	R Cont. Type
L734964-06	Need 1X dilution on 8270BN.							
L734964-09	Need 1X dilution on 8270BN.							
L734993-01	Needs MDNR EDD							
L734993-02	Needs MDNR EDD							
L734993-03	Needs MDNR EDD							
L734993-05	Needs MDNR EDD							
L734993-06	Needs MDNR EDD							
L735312-01	Needs MDNR EDD							
L735312-02	Needs MDNR EDD							
L735312-03	Needs MDNR EDD							
L735312-04	Needs MDNR EDD - MS/MSD sample							
L735312-06	Needs MDNR EDD							
L735312-08	Needs MDNR EDD							
L735312-09	Needs MDNR EDD							
L735312-10	Needs MDNR EDD							

ENVIRONMENTAL SCIENCE CORP.

Environmental Science Corp.

Work Group Report (wk02)

25-NOV-14 06:15 AM

Work Group: WG756318

Department: 5 Metals

Operator: 572

Created: 22-NOV-14

Due:

Sample	Container	Account Name	Product	Matrix	Status	Collected	Due Date	R	Cont. Type
L734231-15	17706104	URS Corporation - Tucson AZ - 10	HGD	GW	HERE	20-NOV-14	01-DEC-14	R5	500mlHDPE-HNO3
L734231-18	17706474	URS Corporation - Tucson AZ - 10	HGD	GW	HERE	20-NOV-14	01-DEC-14	R5	500mlHDPE-HNO3
L734231-21	17706481	URS Corporation - Tucson AZ - 10	HGD	GW	HERE	20-NOV-14	01-DEC-14	R5	500mlHDPE-HNO3
L734231-23	17706495	URS Corporation - Tucson AZ - 10	HGD	GW	HERE	20-NOV-14	01-DEC-14	R5	500mlHDPE-HNO3
L735015-02		TVA-Shawnee Fossil	HGD	GW	HERE	19-NOV-14	02-DEC-14	R5	
L735015-03		TVA-Shawnee Fossil	HGD	GW	HERE	19-NOV-14	02-DEC-14	R5	
L735015-04		TVA-Shawnee Fossil	HGD	GW	HERE	20-NOV-14	02-DEC-14	R5	
L735015-06		TVA-Shawnee Fossil	HGD	GW	HERE	20-NOV-14	02-DEC-14	R5	
L735015-07		TVA-Shawnee Fossil	HGD	GW	HERE	20-NOV-14	02-DEC-14	R5	
L735015-10		TVA-Shawnee Fossil	HGD	GW	HERE	18-NOV-14	02-DEC-14	R5	
L735137-07	S17665192	Terracon - Springfield, MO	HGD	GW	HERE	19-NOV-14	01-DEC-14	R5	500mlHDPE-NoPre
L735181-09	17706306	URS Corporation - Tucson AZ - 10	HGD	GW	HERE	21-NOV-14	01-DEC-14	R5	500mlHDPE-HNO3
L735318-06	17706115	URS Corporation - Tucson AZ - 10	HGD	GW	HERE	21-NOV-14	01-DEC-14	R5	500mlHDPE-HNO3
L735318-09	17706161	URS Corporation - Tucson AZ - 10	HGD	GW	HERE	21-NOV-14	01-DEC-14	R5	500mlHDPE-HNO3

Comments:

==========

Analysis Begun

Logged In Analyst: hg3 **Technique: AA FIMS-MHS**
Spectrometer Model: FIMS-100, S/N B050-9550 **Autosampler Model: AS-93plus**

Sample Information File: C:\data-FIMS3\Sample Information\112514CVAA3 W.sif
Batch ID: 628
Results Data Set: 112514CVAA3 W
Results Library: C:\data-FIMS3\Results\Results.mdb

==========

Method Loaded
Method Name: Hg Water PPM-TEST **Method Last Saved: 11/21/2014 1:05:15 PM**
Method Description: HgWater

Analyte	Calibration Equation	Wavelength
Hg 253.7	Lin, Calc Int	253.7

==========

Sequence No.: 1 **Autosampler Location: 1**
Sample ID: CALBLK **Date Collected: 11/25/2014 6:56:21 AM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: CALBLK

Repl #	SampleConc mg/L	StndConc mg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1		[0.00]	0.0002	0.0018	0.0002	06:57:21	Yes
2		[0.00]	0.0001	-0.0014	0.0001	06:57:58	Yes
3		[0.00]	0.0001	0.0007	0.0001	06:58:34	Yes
Mean:		[0.00]	0.0001				
SD:		0.00	0.0001				
%RSD:		0.00	58.16				

Auto-zero performed.

==========

Sequence No.: 2 **Autosampler Location: 2**
Sample ID: STD1 14K20068 **Date Collected: 11/25/2014 6:58:57 AM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: STD1 14K20068

Repl #	SampleConc mg/L	StndConc mg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1		[0.00010]	0.0015	0.0144	0.0017	06:59:54	Yes
2		[0.00010]	0.0013	0.0097	0.0014	07:00:31	Yes
3		[0.00010]	0.0015	0.0118	0.0016	07:01:07	Yes
Mean:		[0.00010]	0.0014				
SD:		0.00000	0.0001				
%RSD:		0.00000	9.24				

Standard number 1 applied. [0.00010]
Correlation Coef.: 1.000000 Slope: 14.38117 Intercept: -0.00000

==========

Sequence No.: 3 **Autosampler Location: 3**
Sample ID: STD2 14K20068 **Date Collected: 11/25/2014 7:01:31 AM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: STD2 14K20068

Repl #	SampleConc mg/L	StndConc mg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1		[0.00020]	0.0031	0.0266	0.0032	07:02:28	Yes
2		[0.00020]	0.0028	0.0240	0.0030	07:03:05	Yes

3	[0.00020]	0.0027	0.0228	0.0029	07:03:42	Yes
Mean:	[0.00020]	0.0029				
SD:	0.00000	0.0002				
%RSD:	0.00000	6.64				

Standard number 2 applied. [0.00020]
Correlation Coef.: 0.999995 Slope: 14.45818 Intercept: -0.00000

==========

Sequence No.: 4 **Autosampler Location: 4**
Sample ID: STD3 14K20068 **Date Collected: 11/25/2014 7:04:06 AM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: STD3 14K20068

Repl #	SampleConc mg/L	StndConc mg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1		[0.00040]	0.0060	0.0480	0.0061	07:05:04	Yes
2		[0.00040]	0.0061	0.0503	0.0063	07:05:41	Yes
3		[0.00040]	0.0060	0.0476	0.0061	07:06:17	Yes
Mean:		[0.00040]	0.0060				
SD:		0.00000	0.0001				
%RSD:		0.00000	1.56				

Standard number 3 applied. [0.00040]
Correlation Coef.: 0.999738 Slope: 15.09166 Intercept: -0.00005

==========

Sequence No.: 5 **Autosampler Location: 5**
Sample ID: STD4 14K20068 **Date Collected: 11/25/2014 7:06:42 AM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: STD4 14K20068

Repl #	SampleConc mg/L	StndConc mg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1		[0.00100]	0.0152	0.1213	0.0153	07:07:40	Yes
2		[0.00100]	0.0148	0.1172	0.0150	07:08:16	Yes
3		[0.00100]	0.0151	0.1200	0.0152	07:08:53	Yes
Mean:		[0.00100]	0.0150				
SD:		0.00000	0.0002				
%RSD:		0.00000	1.15				

Standard number 4 applied. [0.00100]
Correlation Coef.: 0.999964 Slope: 15.09437 Intercept: -0.00005

==========

Sequence No.: 6 **Autosampler Location: 6**
Sample ID: STD5 14K20068 **Date Collected: 11/25/2014 7:09:18 AM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: STD5 14K20068

Repl #	SampleConc mg/L	StndConc mg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1		[0.00200]	0.0299	0.2360	0.0300	07:10:14	Yes
2		[0.00200]	0.0300	0.2370	0.0301	07:10:51	Yes
3		[0.00200]	0.0300	0.2372	0.0302	07:11:27	Yes
Mean:		[0.00200]	0.0300				
SD:		0.00000	0.0001				
%RSD:		0.00000	0.30				

Standard number 5 applied. [0.00200]
Correlation Coef.: 0.999988 Slope: 15.01529 Intercept: -0.00003

==========

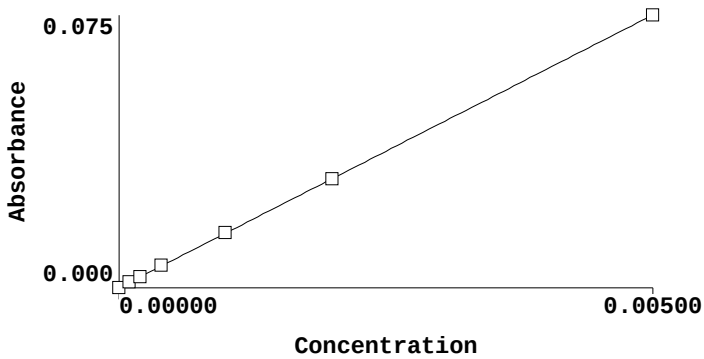
Sequence No.: 7 **Autosampler Location: 7**
Sample ID: STD6 14K07346 **Date Collected: 11/25/2014 7:11:51 AM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**

Dilution: **Sample Prep Vol:**

Replicate Data: STD6 14K07346

Repl #	SampleConc mg/L	StndConc mg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1		[0.00500]	0.0754	0.5955	0.0755	07:12:48	Yes
2		[0.00500]	0.0753	0.5901	0.0754	07:13:24	Yes
3		[0.00500]	0.0755	0.5932	0.0757	07:14:01	Yes
Mean:		[0.00500]	0.0754				
SD:		0.00000	0.0001				
%RSD:		0.00000	0.16				

Standard number 6 applied. [0.00500]
Correlation Coef.: 0.999997 Slope: 15.08077 Intercept: -0.00006



Calibration data for Hg 253.7 **Equation: Linear, Calculated Intercept**

ID	Mean Signal (Abs)	Entered Conc. mg/L	Calculated Conc. mg/L	Standard Deviation	%RSD
CALBLK	0.0000	0	0.00000	0.00	58.2
STD1 14K20068	0.0014	0.00010	0.00010	0.00	9.2
STD2 14K20068	0.0029	0.00020	0.00020	0.00	6.6
STD3 14K20068	0.0060	0.00040	0.00040	0.00	1.6
STD4 14K20068	0.0150	0.00100	0.00100	0.00	1.2
STD5 14K20068	0.0300	0.00200	0.00199	0.00	0.3
STD6 14K07346	0.0754	0.00500	0.00500	0.00	0.2

Correlation Coef.: 0.999997 Slope: 15.08077 Intercept: -0.00006

Analytical Sequence
Method: Hg Water PPM-TEST

Seq.	Loc.	ID	Status
1	1	CALBLK	Applied
2	2	STD1 14K20068	Applied
3	3	STD2 14K20068	Applied
4	4	STD3 14K20068	Applied
5	5	STD4 14K20068	Applied
6	6	STD5 14K20068	Applied
7	7	STD6 14K07346	Applied

==========

Analysis Begun

Logged In Analyst: hg3 **Technique: AA FIMS-MHS**
Spectrometer Model: FIMS-100, S/N B050-9550 **Autosampler Model: AS-93plus**

Sample Information File: C:\data-FIMS3\Sample Information\112514CVAA3 W.sif
Batch ID: 628
Results Data Set: 112514CVAA3 W
Results Library: C:\data-FIMS3\Results\Results.mdb

==========

Sequence No.: 1 **Autosampler Location: 156**
Sample ID: ICVLL 14K14700 **Date Collected: 11/25/2014 7:14:43 AM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: ICVLL 14K14700

Repl #	SampleConc mg/L	StndConc mg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.00021	0.00021	0.0031	0.0250	0.0032	07:15:42	Yes
2	0.00022	0.00022	0.0033	0.0268	0.0035	07:16:18	Yes
3	0.00022	0.00022	0.0033	0.0280	0.0034	07:16:55	Yes
Mean:	0.00022	0.00022	0.0032				
SD:	0.00001	0.00001	0.0001				
%RSD:	3.443	3.443	3.51				

QC value within limits for Hg 253.7 Recovery = 109.73%
All analyte(s) passed QC.

==========

Sequence No.: 2 **Autosampler Location: 157**
Sample ID: ICV 14K07344 **Date Collected: 11/25/2014 7:17:20 AM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: ICV 14K07344

Repl #	SampleConc mg/L	StndConc mg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.00293	0.00293	0.0442	0.3509	0.0443	07:18:20	Yes
2	0.00296	0.00296	0.0446	0.3540	0.0448	07:18:56	Yes
3	0.00297	0.00297	0.0447	0.3558	0.0449	07:19:32	Yes
Mean:	0.00296	0.00296	0.0445				
SD:	0.00002	0.00002	0.0003				
%RSD:	0.6705	0.6705	0.67				

QC value within limits for Hg 253.7 Recovery = 98.50%
All analyte(s) passed QC.

==========

Sequence No.: 3 **Autosampler Location: 1**
Sample ID: ICB **Date Collected: 11/25/2014 7:19:58 AM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: ICB

Repl #	SampleConc mg/L	StndConc mg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.00005	0.00005	0.0007	0.0083	0.0008	07:20:54	Yes
2	0.00002	0.00002	0.0003	0.0042	0.0004	07:21:31	Yes
3	0.00001	0.00001	0.0001	0.0026	0.0003	07:22:07	Yes
Mean:	0.00003	0.00003	0.0004				
SD:	0.00002	0.00002	0.0003				
%RSD:	68.62	68.62	80.39				

QC value within limits for Hg 253.7 Recovery = Not calculated
All analyte(s) passed QC.

Sequence No.: 63 **Autosampler Location: 8**
Sample ID: CCV 14K07346 **Date Collected: 11/25/2014 9:44:30 AM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: CCV 14K07346

Repl #	SampleConc mg/L	StndConc mg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.00259	0.00259	0.0390	0.3241	0.0391	09:45:27	Yes
2	0.00258	0.00258	0.0389	0.3206	0.0390	09:46:03	Yes
3	0.00257	0.00257	0.0388	0.3191	0.0389	09:46:40	Yes
Mean:	0.00258	0.00258	0.0389				
SD:	0.00001	0.00001	0.0001				
%RSD:	0.2753	0.2753	0.28				

QC value within limits for Hg 253.7 Recovery = 103.29%
All analyte(s) passed QC.

==========

Sequence No.: 64 **Autosampler Location: 1**
Sample ID: CCB **Date Collected: 11/25/2014 9:47:04 AM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: CCB

Repl #	SampleConc mg/L	StndConc mg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.00001	0.00001	0.0001	0.0017	0.0002	09:48:00	Yes
2	0.00000	0.00000	-0.0001	-0.0006	0.0000	09:48:37	Yes
3	0.00001	0.00001	0.0000	0.0010	0.0002	09:49:13	Yes
Mean:	0.00000	0.00000	0.0000				
SD:	0.00001	0.00001	0.0001				
%RSD:	114.2	114.2	>999.9%				

QC value within limits for Hg 253.7 Recovery = Not calculated
All analyte(s) passed QC.

==========

Sequence No.: 65 **Autosampler Location: 62**
Sample ID: BLANK WG756318 **Date Collected: 11/25/2014 9:49:37 AM**
Analyst: 628 **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol: 30 mL**
Dilution: **Sample Prep Vol: 30 mL**

Replicate Data: BLANK WG756318

Repl #	SampleConc mg/L	StndConc mg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.00000	0.00000	-0.0000	0.0002	0.0001	09:50:34	Yes
2	0.00000	0.00000	-0.0001	-0.0004	0.0001	09:51:11	Yes
3	0.00001	0.00001	0.0001	0.0018	0.0002	09:51:47	Yes
Mean:	0.00000	0.00000	-0.0000				
SD:	0.00001	0.00001	0.0001				
%RSD:	162.4	162.4	440.03				

==========

Sequence No.: 66 **Autosampler Location: 63**
Sample ID: LCS WG756318 **Date Collected: 11/25/2014 9:52:12 AM**
Analyst: 628 **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol: 30 mL**
Dilution: **Sample Prep Vol: 30 mL**

Replicate Data: LCS WG756318

Repl #	SampleConc mg/L	StndConc mg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.00313	0.00313	0.0471	0.3895	0.0472	09:53:09	Yes
2	0.00308	0.00308	0.0463	0.3822	0.0464	09:53:46	Yes
3	0.00310	0.00310	0.0466	0.3837	0.0468	09:54:22	Yes
Mean:	0.00310	0.00310	0.0467				

SD:	0.00003	0.00003	0.0004
%RSD:	0.8306	0.8306	0.83

==========

Sequence No.: 67 **Autosampler Location: 64**
Sample ID: LCSD WG756318 **Date Collected: 11/25/2014 9:54:46 AM**
Analyst: 628 **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol: 30 mL**
Dilution: **Sample Prep Vol: 30 mL**

Replicate Data: LCSD WG756318

Repl #	SampleConc mg/L	StndConc mg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.00314	0.00314	0.0473	0.3907	0.0474	09:55:44	Yes
2	0.00308	0.00308	0.0463	0.3809	0.0465	09:56:20	Yes
3	0.00309	0.00309	0.0466	0.3813	0.0467	09:56:56	Yes
Mean:	0.00310	0.00310	0.0467				
SD:	0.00003	0.00003	0.0005				
%RSD:	1.016	1.016	1.02				

==========

Sequence No.: 68 **Autosampler Location: 65**
Sample ID: L735015-02 WG756318 **Date Collected: 11/25/2014 9:57:21 AM**
Analyst: 628 **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol: 30 mL**
Dilution: **Sample Prep Vol: 30 mL**

Replicate Data: L735015-02 WG756318

Repl #	SampleConc mg/L	StndConc mg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.00001	0.00001	0.0000	0.0010	0.0002	09:58:18	Yes
2	0.00000	0.00000	-0.0001	-0.0001	0.0001	09:58:55	Yes
3	0.00001	0.00001	0.0000	0.0007	0.0001	09:59:31	Yes
Mean:	0.00000	0.00000	-0.0000				
SD:	0.00000	0.00000	0.0000				
%RSD:	82.73	82.73	970.03				

==========

Sequence No.: 69 **Autosampler Location: 66**
Sample ID: MS WG756318 L735015-02 **Date Collected: 11/25/2014 9:59:55 AM**
Analyst: 628 **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol: 30 mL**
Dilution: **Sample Prep Vol: 30 mL**

Replicate Data: MS WG756318 L735015-02

Repl #	SampleConc mg/L	StndConc mg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.00341	0.00341	0.0513	0.4250	0.0515	10:00:53	Yes
2	0.00335	0.00335	0.0504	0.4163	0.0506	10:01:29	Yes
3	0.00335	0.00335	0.0505	0.4164	0.0506	10:02:06	Yes
Mean:	0.00337	0.00337	0.0507				
SD:	0.00003	0.00003	0.0005				
%RSD:	1.010	1.010	1.01				

==========

Sequence No.: 70 **Autosampler Location: 67**
Sample ID: MSD WG756318 L735015-02 **Date Collected: 11/25/2014 10:02:30 AM**
Analyst: 628 **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol: 30 mL**
Dilution: **Sample Prep Vol: 30 mL**

Replicate Data: MSD WG756318 L735015-02

Repl #	SampleConc mg/L	StndConc mg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.00325	0.00325	0.0489	0.4036	0.0491	10:03:27	Yes
2	0.00320	0.00320	0.0482	0.3966	0.0483	10:04:04	Yes
3	0.00321	0.00321	0.0484	0.3980	0.0485	10:04:40	Yes
Mean:	0.00322	0.00322	0.0485				

SD:	0.00003	0.00003	0.0004
%RSD:	0.8217	0.8217	0.82

==========

Sequence No.: 71 **Autosampler Location: 68**
Sample ID: SD WG756318 L735015-02 **Date Collected: 11/25/2014 10:05:04 AM**
Analyst: 628 **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol: 30 mL**
Dilution: 5X **Sample Prep Vol: 30 mL**

Replicate Data: SD WG756318 L735015-02

Repl #	SampleConc mg/L	StndConc mg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.00000	0.00000	-0.0001	-0.0002	0.0001	10:06:02	Yes
2	0.00000	0.00000	-0.0001	-0.0001	0.0001	10:06:38	Yes
3	0.00001	0.00000	-0.0000	0.0007	0.0001	10:07:15	Yes
Mean:	0.00000	0.00000	-0.0001				
SD:	0.00001	0.00000	0.0000				
%RSD:	480.6	480.6	35.55				

==========

Sequence No.: 72 **Autosampler Location: 69**
Sample ID: L734231-15 WG756318 **Date Collected: 11/25/2014 10:07:39 AM**
Analyst: 628 **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol: 30 mL**
Dilution: **Sample Prep Vol: 30 mL**

Replicate Data: L734231-15 WG756318

Repl #	SampleConc mg/L	StndConc mg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.00000	0.00000	-0.0000	0.0008	0.0001	10:08:37	Yes
2	0.00000	0.00000	-0.0001	-0.0010	0.0000	10:09:13	Yes
3	0.00001	0.00001	0.0001	0.0023	0.0003	10:09:50	Yes
Mean:	0.00000	0.00000	0.0000				
SD:	0.00001	0.00001	0.0001				
%RSD:	182.5	182.5	>999.9%				

==========

Sequence No.: 73 **Autosampler Location: 70**
Sample ID: L734231-18 WG756318 **Date Collected: 11/25/2014 10:10:14 AM**
Analyst: 628 **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol: 30 mL**
Dilution: **Sample Prep Vol: 30 mL**

Replicate Data: L734231-18 WG756318

Repl #	SampleConc mg/L	StndConc mg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.00000	0.00000	-0.0000	0.0009	0.0001	10:11:12	Yes
2	0.00000	0.00000	-0.0000	0.0004	0.0001	10:11:49	Yes
3	0.00001	0.00001	0.0001	0.0023	0.0002	10:12:25	Yes
Mean:	0.00001	0.00001	0.0000				
SD:	0.00000	0.00000	0.0001				
%RSD:	75.06	75.06	265.83				

==========

Sequence No.: 74 **Autosampler Location: 71**
Sample ID: L734231-21 WG756318 **Date Collected: 11/25/2014 10:12:49 AM**
Analyst: 628 **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol: 30 mL**
Dilution: **Sample Prep Vol: 30 mL**

Replicate Data: L734231-21 WG756318

Repl #	SampleConc mg/L	StndConc mg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.00001	0.00001	0.0000	0.0010	0.0002	10:13:46	Yes
2	0.00001	0.00001	0.0000	0.0010	0.0002	10:14:23	Yes
3	0.00001	0.00001	0.0001	0.0016	0.0002	10:15:00	Yes
Mean:	0.00001	0.00001	0.0000				

SD:	0.00000	0.00000	0.0000
%RSD:	31.67	31.67	83.79

==========

Sequence No.: 75 **Autosampler Location: 72**
Sample ID: L734231-23 WG756318 **Date Collected: 11/25/2014 10:15:25 AM**
Analyst: 628 **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol: 30 mL**
Dilution: **Sample Prep Vol: 30 mL**

Replicate Data: L734231-23 WG756318

Repl #	SampleConc mg/L	StndConc mg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.00000	0.00000	-0.0000	0.0002	0.0001	10:16:22	Yes
2	0.00001	0.00001	0.0000	0.0015	0.0002	10:16:59	Yes
3	0.00001	0.00001	0.0000	0.0018	0.0002	10:17:36	Yes
Mean:	0.00001	0.00001	0.0000				
SD:	0.00000	0.00000	0.0000				
%RSD:	50.47	50.47	252.53				

==========

Sequence No.: 76 **Autosampler Location: 73**
Sample ID: L735015-03 WG756318 **Date Collected: 11/25/2014 10:18:00 AM**
Analyst: 628 **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol: 30 mL**
Dilution: **Sample Prep Vol: 30 mL**

Replicate Data: L735015-03 WG756318

Repl #	SampleConc mg/L	StndConc mg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.00001	0.00001	0.0000	0.0008	0.0002	10:18:59	Yes
2	0.00000	0.00000	0.0000	0.0007	0.0001	10:19:35	Yes
3	0.00000	0.00000	-0.0000	0.0005	0.0001	10:20:12	Yes
Mean:	0.00001	0.00001	0.0000				
SD:	0.00000	0.00000	0.0000				
%RSD:	40.42	40.42	215.81				

==========

Sequence No.: 77 **Autosampler Location: 74**
Sample ID: L735015-04 WG756318 **Date Collected: 11/25/2014 10:20:36 AM**
Analyst: 628 **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol: 30 mL**
Dilution: **Sample Prep Vol: 30 mL**

Replicate Data: L735015-04 WG756318

Repl #	SampleConc mg/L	StndConc mg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.00000	0.00000	-0.0000	0.0001	0.0001	10:21:34	Yes
2	0.00000	0.00000	-0.0001	-0.0009	0.0000	10:22:11	Yes
3	0.00001	0.00001	0.0001	0.0024	0.0002	10:22:47	Yes
Mean:	0.00000	0.00000	-0.0000				
SD:	0.00001	0.00001	0.0001				
%RSD:	199.2	199.2	740.11				

==========

Sequence No.: 78 **Autosampler Location: 75**
Sample ID: L735015-06 WG756318 **Date Collected: 11/25/2014 10:23:11 AM**
Analyst: 628 **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol: 30 mL**
Dilution: **Sample Prep Vol: 30 mL**

Replicate Data: L735015-06 WG756318

Repl #	SampleConc mg/L	StndConc mg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.00000	0.00000	-0.0001	-0.0001	0.0001	10:24:09	Yes
2	0.00000	0.00000	-0.0000	0.0001	0.0001	10:24:45	Yes
3	0.00000	0.00000	-0.0000	0.0005	0.0001	10:25:22	Yes
Mean:	0.00000	0.00000	-0.0000				

SD:	0.00000	0.00000	0.0000
%RSD:	84.54	84.54	72.19

==========

Sequence No.: 79 **Autosampler Location: 76**
Sample ID: L735015-07 WG756318 **Date Collected: 11/25/2014 10:25:47 AM**
Analyst: 628 **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol: 30 mL**
Dilution: **Sample Prep Vol: 30 mL**

Replicate Data: L735015-07 WG756318

Repl #	SampleConc mg/L	StndConc mg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.00001	0.00001	0.0000	0.0011	0.0002	10:26:44	Yes
2	0.00000	0.00000	-0.0001	-0.0003	0.0000	10:27:21	Yes
3	0.00001	0.00001	0.0000	0.0010	0.0002	10:27:57	Yes
Mean:	0.00000	0.00000	-0.0000				
SD:	0.00000	0.00000	0.0001				
%RSD:	152.3	152.3	450.29				

==========

Sequence No.: 80 **Autosampler Location: 77**
Sample ID: L735015-10 WG756318 **Date Collected: 11/25/2014 10:28:21 AM**
Analyst: 628 **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol: 30 mL**
Dilution: **Sample Prep Vol: 30 mL**

Replicate Data: L735015-10 WG756318

Repl #	SampleConc mg/L	StndConc mg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.00000	0.00000	-0.0000	0.0005	0.0001	10:29:19	Yes
2	0.00001	0.00001	0.0001	0.0021	0.0002	10:29:56	Yes
3	0.00000	0.00000	-0.0000	0.0001	0.0001	10:30:32	Yes
Mean:	0.00001	0.00001	0.0000				
SD:	0.00000	0.00000	0.0001				
%RSD:	66.08	66.08	353.40				

==========

Sequence No.: 81 **Autosampler Location: 8**
Sample ID: CCV 14K07346 **Date Collected: 11/25/2014 10:30:57 AM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: CCV 14K07346

Repl #	SampleConc mg/L	StndConc mg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.00264	0.00264	0.0398	0.3314	0.0399	10:31:54	Yes
2	0.00260	0.00260	0.0392	0.3238	0.0393	10:32:31	Yes
3	0.00260	0.00260	0.0392	0.3234	0.0394	10:33:07	Yes
Mean:	0.00262	0.00262	0.0394				
SD:	0.00002	0.00002	0.0003				
%RSD:	0.8669	0.8669	0.87				

QC value within limits for Hg 253.7 Recovery = 104.71%
All analyte(s) passed QC.

==========

Sequence No.: 82 **Autosampler Location: 1**
Sample ID: CCB **Date Collected: 11/25/2014 10:33:31 AM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: CCB

Repl #	SampleConc mg/L	StndConc mg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.00001	0.00001	0.0000	0.0011	0.0001	10:34:28	Yes
2	0.00000	0.00000	0.0000	0.0009	0.0001	10:35:04	Yes

3	0.00000	0.00000	-0.0001	0.0005	0.0001	10:35:42	Yes
Mean:	0.00000	0.00000	-0.0000				
SD:	0.00000	0.00000	0.0000				
%RSD:	87.95	87.95	256.64				

QC value within limits for Hg 253.7 Recovery = Not calculated
All analyte(s) passed QC.

==========

Sequence No.: 83 **Autosampler Location: 78**
Sample ID: L735137-07 WG756318 **Date Collected: 11/25/2014 10:36:05 AM**
Analyst: 628 **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol: 30 mL**
Dilution: **Sample Prep Vol: 30 mL**

Replicate Data: L735137-07 WG756318

Repl #	SampleConc mg/L	StndConc mg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.00001	0.00001	0.0000	0.0012	0.0002	10:37:03	Yes
2	0.00000	0.00000	-0.0000	0.0012	0.0001	10:37:40	Yes
3	0.00000	0.00000	-0.0001	-0.0007	0.0000	10:38:16	Yes
Mean:	0.00000	0.00000	-0.0000				
SD:	0.00001	0.00001	0.0001				
%RSD:	276.3	276.3	231.23				

==========

Sequence No.: 84 **Autosampler Location: 79**
Sample ID: L735181-09 WG756318 **Date Collected: 11/25/2014 10:38:41 AM**
Analyst: 628 **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol: 30 mL**
Dilution: **Sample Prep Vol: 30 mL**

Replicate Data: L735181-09 WG756318

Repl #	SampleConc mg/L	StndConc mg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.00001	0.00001	0.0000	0.0009	0.0002	10:39:39	Yes
2	0.00001	0.00001	0.0001	0.0021	0.0003	10:40:15	Yes
3	0.00001	0.00001	0.0000	0.0007	0.0002	10:40:51	Yes
Mean:	0.00001	0.00001	0.0001				
SD:	0.00000	0.00000	0.0001				
%RSD:	47.78	47.78	101.75				

==========

Sequence No.: 85 **Autosampler Location: 80**
Sample ID: L735318-06 WG756318 **Date Collected: 11/25/2014 10:41:16 AM**
Analyst: 628 **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol: 30 mL**
Dilution: **Sample Prep Vol: 30 mL**

Replicate Data: L735318-06 WG756318

Repl #	SampleConc mg/L	StndConc mg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.00000	0.00000	-0.0000	-0.0000	0.0001	10:42:14	Yes
2	0.00000	0.00000	-0.0001	0.0000	0.0001	10:42:50	Yes
3	0.00000	0.00000	-0.0000	0.0007	0.0001	10:43:27	Yes
Mean:	0.00000	0.00000	-0.0000				
SD:	0.00000	0.00000	0.0000				
%RSD:	77.06	77.06	40.99				

==========

Sequence No.: 86 **Autosampler Location: 81**
Sample ID: L735318-09 WG756318 **Date Collected: 11/25/2014 10:43:51 AM**
Analyst: 628 **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol: 30 mL**
Dilution: **Sample Prep Vol: 30 mL**

Replicate Data: L735318-09 WG756318

Repl #	SampleConc mg/L	StndConc mg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored

1	0.00000	0.00000	-0.0000	0.0007	0.0001	10:44:49	Yes
2	0.00000	0.00000	-0.0001	-0.0002	0.0001	10:45:26	Yes
3	0.00000	0.00000	0.0000	0.0011	0.0001	10:46:03	Yes
Mean:	0.00000	0.00000	-0.0000				
SD:	0.00000	0.00000	0.0000				
%RSD:	95.74	95.74	108.58				

==========

Sequence No.: 87 **Autosampler Location: 82**
Sample ID: INSTBLK WG756318 **Date Collected: 11/25/2014 10:46:27 AM**
Analyst: 628 **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol: 30 mL**
Dilution: **Sample Prep Vol: 30 mL**

Replicate Data: INSTBLK WG756318

Repl #	SampleConc mg/L	StndConc mg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.00000	0.00000	-0.0001	-0.0005	0.0000	10:47:24	Yes
2	0.00000	0.00000	0.0000	0.0011	0.0001	10:48:01	Yes
3	0.00000	0.00000	-0.0001	-0.0020	-0.0000	10:48:37	Yes
Mean:	0.00000	0.00000	-0.0001				
SD:	0.00000	0.00000	0.0001				
%RSD:	>999.9%	>999.9%	103.21				

==========

Sequence No.: 88 **Autosampler Location: 3**
Sample ID: CCVLL 14K20068 **Date Collected: 11/25/2014 10:49:01 AM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: CCVLL 14K20068

Repl #	SampleConc mg/L	StndConc mg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.00020	0.00020	0.0030	0.0264	0.0031	10:49:58	Yes
2	0.00001	0.00001	0.0000	0.0010	0.0002	10:50:35	Yes
3	0.00000	0.00000	-0.0001	-0.0007	0.0001	10:51:11	Yes
Mean:	0.00007	0.00007	0.0010				
SD:	0.00011	0.00011	0.0017				
%RSD:	166.4	166.4	177.41				

QC value less than the lower limit for Hg 253.7 Recovery = 34.41%
QC Failed. Stop the analysis.

==========

Analysis Begun

Logged In Analyst: hg3 **Technique: AA FIMS-MHS**
Spectrometer Model: FIMS-100, S/N B050-9550 **Autosampler Model: AS-93plus**

Sample Information File: C:\data-FIMS3\Sample Information\112514CVAA3 W.sif
Batch ID: 628
Results Data Set: 112514CVAA3 W
Results Library: C:\data-FIMS3\Results\Results.mdb

==========

Sequence No.: 88 **Autosampler Location: 3**
Sample ID: CCVLL 14K20068 **Date Collected: 11/25/2014 10:55:38 AM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: CCVLL 14K20068

Repl #	SampleConc mg/L	StndConc mg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.00020	0.00020	0.0029	0.0252	0.0030	10:56:36	Yes
2	0.00020	0.00020	0.0029	0.0266	0.0031	10:57:12	Yes
3	0.00020	0.00020	0.0029	0.0252	0.0030	10:57:49	Yes
Mean:	0.00020	0.00020	0.0029				
SD:	0.00000	0.00000	0.0000				

%RSD: 1.057 1.057 1.08
QC value within limits for Hg 253.7 Recovery = 98.48%
All analyte(s) passed QC.

==========

Sequence No.: 89 **Autosampler Location: 8**
Sample ID: CCV 14K07346 **Date Collected: 11/25/2014 10:58:13 AM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: CCV 14K07346

Repl #	SampleConc mg/L	StndConc mg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.00258	0.00258	0.0389	0.3274	0.0390	10:59:10	Yes
2	0.00255	0.00255	0.0384	0.3193	0.0385	10:59:46	Yes
3	0.00256	0.00256	0.0385	0.3204	0.0386	11:00:23	Yes
Mean:	0.00256	0.00256	0.0386				
SD:	0.00002	0.00002	0.0003				
%RSD:	0.6822	0.6822	0.68				

QC value within limits for Hg 253.7 Recovery = 102.52%
All analyte(s) passed QC.

==========

Sequence No.: 90 **Autosampler Location: 1**
Sample ID: CCB **Date Collected: 11/25/2014 11:00:47 AM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: CCB

Repl #	SampleConc mg/L	StndConc mg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.00000	0.00000	-0.0000	0.0007	0.0001	11:01:44	Yes
2	0.00001	0.00001	0.0001	0.0018	0.0002	11:02:20	Yes
3	0.00000	0.00000	-0.0001	-0.0014	0.0000	11:02:56	Yes
Mean:	0.00000	0.00000	-0.0000				
SD:	0.00001	0.00001	0.0001				
%RSD:	251.7	251.7	326.11				

QC value within limits for Hg 253.7 Recovery = Not calculated
All analyte(s) passed QC.

Analytical Sequence
Method: Hg Water PPM-TEST

Seq.	Loc.	ID	Status
1	156	ICVLL 14K14700	
2	157	ICV 14K07344	
3	1	ICB	
4	9	BLANK WG756454	
5	10	LCS WG756454	
6	11	LCSD WG756454	
7	12	L734873-01 WG756454	
8	13	MS WG756454 L734873-01	
9	14	MSD WG756454 L734873-01	
10	15	SD WG756454 L734873-01	
11	16	L734847-02 WG756454	
12	17	L734888-01 WG756454	
13	18	L734895-01 WG756454	
14	19	L734901-01 WG756454	
15	20	L734902-01 WG756454	
16	21	L734910-01 WG756454	
17	22	L734912-02 WG756454	
18	23	L734912-04 WG756454	
19	24	L734912-06 WG756454	
20	8	CCV 14K07346	
21	1	CCB	
22	25	L734912-08 WG756454	
23	26	L734912-10 WG756454	
24	27	L734912-12 WG756454	
25	28	L734912-14 WG756454	

26	29	L734912-16 WG756454	
27	30	L734949-01 WG756454	
28	31	L735221-02 WG756454	
29	32	L735221-04 WG756454	
30	33	L735223-02 WG756454	
31	34	INSTBLK WG756454	
32	8	CCV 14K07346	QC Passed
33	1	CCB	QC Passed
34	35	BLANK WG756305	Analyzed
35	36	LCS WG756305	Analyzed
36	37	LCSD WG756305	Analyzed
37	38	L735312-04 WG756305	Analyzed
38	39	MS WG756305 L735312-04	Analyzed
39	40	MSD WG756305 L735312-04	Analyzed
40	41	SD WG756305 L735312-04	Analyzed
41	42	L734916-01 WG756305	Analyzed
42	43	L734916-02 WG756305	Analyzed
43	44	L734941-01 WG756305	Analyzed
44	45	L734964-01 WG756305	Analyzed
45	46	L734964-04 WG756305	Analyzed
46	47	L734964-06 WG756305	Analyzed
47	48	L734964-09 WG756305	Analyzed
48	49	L734993-01 WG756305	Analyzed
49	50	L734993-02 WG756305	Analyzed
50	8	CCV 14K07346	QC Passed
51	1	CCB	QC Passed
52	51	L734993-03 WG756305	Analyzed
53	52	L734993-05 WG756305	Analyzed
54	53	L734993-06 WG756305	Analyzed
55	54	L735312-01 WG756305	Analyzed
56	55	L735312-02 WG756305	Analyzed
57	56	L735312-03 WG756305	Analyzed
58	57	L735312-06 WG756305	Analyzed
59	58	L735312-08 WG756305	Analyzed
60	59	L735312-09 WG756305	Analyzed
61	60	L735312-10 WG756305	Analyzed
62	61	INSTBLK WG756305	Analyzed
63	8	CCV 14K07346	QC Passed
64	1	CCB	QC Passed
65	62	BLANK WG756318	Analyzed
66	63	LCS WG756318	Analyzed
67	64	LCSD WG756318	Analyzed
68	65	L735015-02 WG756318	Analyzed
69	66	MS WG756318 L735015-02	Analyzed
70	67	MSD WG756318 L735015-02	Analyzed
71	68	SD WG756318 L735015-02	Analyzed
72	69	L734231-15 WG756318	Analyzed
73	70	L734231-18 WG756318	Analyzed
74	71	L734231-21 WG756318	Analyzed
75	72	L734231-23 WG756318	Analyzed
76	73	L735015-03 WG756318	Analyzed
77	74	L735015-04 WG756318	Analyzed
78	75	L735015-06 WG756318	Analyzed
79	76	L735015-07 WG756318	Analyzed
80	77	L735015-10 WG756318	Analyzed
81	8	CCV 14K07346	QC Passed
82	1	CCB	QC Passed
83	78	L735137-07 WG756318	Analyzed
84	79	L735181-09 WG756318	Analyzed
85	80	L735318-06 WG756318	Analyzed
86	81	L735318-09 WG756318	Analyzed
87	82	INSTBLK WG756318	Analyzed
88	3	CCVLL 14K20068	QC Passed
89	8	CCV 14K07346	QC Passed
90	1	CCB	QC Passed

Laboratory Bench Sheet

Printed:11/22/2014 18:35

Workgroup:	WG755978
Balance Name:	TCLPBAL1
Test:	Mercury
Method:	7470A
Prep Analyst:	572
Prep Date:	112114

Calibration Standards

0.1 ppb	14K20068
0.2ppb	14K20068
0.4 ppb	14K20068
1.0 ppb	14K20068
2.0 ppb	14K20068
5.0 ppb	14K07346

Hot Block

Name:MPA

Temp On:	92 deg C
Temp Off:	96 deg C
Time On:	2000
Time Off:	2200

QC Standards

ICV:	14K07344
ICV Low Level:	14K20068
CCV:	14K07346
CCV Low Level:	14K20068
LCS:	14K07344
MS/MSD:	14K07346

Reagent Standards

HNO3:	14K18881
HCl:	14J02360
KMNO4:	14K18955
K2S2O8:	14J29857
NaCl:	13J04016
H8N2O6S:	14K13670
SnCl:	14I09234
H2SO4:	14K06266
SiO2:	
Aqua Regia:	

Comments:

Worksheet ID:369925

Laboratory Bench Sheet

Printed:11/22/2014 18:35

Workgroup:	WG756005
Balance Name:	TCLPBAL1
Test:	Mercury
Method:	7470A
Prep Analyst:	572
Prep Date:	112114

Calibration Standards

0.1 ppb	14K20068
0.2ppb	14K20068
0.4 ppb	14K20068
1.0 ppb	14K20068
2.0 ppb	14K20068
5.0 ppb	14K07346

Hot Block

Name:MPA

Temp On:	92 deg C
Temp Off:	96 deg C
Time On:	2000
Time Off:	2200

QC Standards

ICV:	14K07344
ICV Low Level:	14K20068
CCV:	14K07346
CCV Low Level:	14K20068
LCS:	14K07344
MS/MSD:	14K07346

Reagent Standards

HNO3:	14K18881
HCl:	14J02360
KMNO4:	14K18955
K2S2O8:	14J29857
NaCl:	13J04016
H8N2O6S:	14K13670
SnCl:	14I09234
H2SO4:	14K06266
SiO2:	
Aqua Regia:	

Comments:

Worksheet ID:369925

Laboratory Bench Sheet

Printed:11/22/2014 18:35

Workgroup:	WG755988
Balance Name:	TCLPBAL1
Test:	Mercury
Method:	245.1
Prep Analyst:	572
Prep Date:	112114

Calibration Standards

0.1 ppb	14K20068
0.2ppb	14K20068
0.4 ppb	14K20068
1.0 ppb	14K20068
2.0 ppb	14K20068
5.0 ppb	14K07346

Hot Block

Name:MPB

Temp On:	95 deg C
Temp Off:	97 deg C
Time On:	2000
Time Off:	2200

QC Standards

ICV:	14K07344
ICV Low Level:	14K20068
CCV:	14K07346
CCV Low Level:	14K20068
LCS:	14K07344
MS/MSD:	14K07346

Reagent Standards

HNO3:	14K18881
HCl:	14J02360
KMNO4:	14K18955
K2S2O8:	14J29857
NaCl:	13J04016
H8N2O6S:	14K13670
SnCl:	14I09234
H2SO4:	14K06266
SiO2:	
Aqua Regia:	

Comments:

Worksheet ID:369925

Laboratory Bench Sheet

Printed:11/22/2014 18:35

Workgroup:	WG756153
Balance Name:	TCLPBAL1
Test:	Mercury
Method:	7470A
Prep Analyst:	572
Prep Date:	112114

Calibration Standards

0.1 ppb	14K20068
0.2ppb	14K20068
0.4 ppb	14K20068
1.0 ppb	14K20068
2.0 ppb	14K20068
5.0 ppb	14K07346

Hot Block

Name:MPB

Temp On:	95 deg C
Temp Off:	97 deg C
Time On:	2000
Time Off:	2200

QC Standards

ICV:	14K07344
ICV Low Level:	14K20068
CCV:	14K07346
CCV Low Level:	14K20068
LCS:	14K07344
MS/MSD:	14K07346

Reagent Standards

HNO3:	14K18881
HCl:	14J02360
KMNO4:	14K18955
K2S2O8:	14J29857
NaCl:	13J04016
H8N2O6S:	14K13670
SnCl:	14I09234
H2SO4:	14K06266
SiO2:	
Aqua Regia:	

Comments:

Worksheet ID:369925

Laboratory Bench Sheet

Printed:11/22/2014 18:35

Workgroup:	WG756299
Balance Name:	TCLPBAL1
Test:	Mercury
Method:	7470A
Prep Analyst:	572
Prep Date:	112214

Calibration Standards

0.1 ppb	14K20068
0.2ppb	14K20068
0.4 ppb	14K20068
1.0 ppb	14K20068
2.0 ppb	14K20068
5.0 ppb	14K07346

Hot Block

Name:HGA

Temp On:	92 deg C
Temp Off:	95 deg C
Time On:	1630
Time Off:	1830

QC Standards

ICV:	14K07344
ICV Low Level:	14K20068
CCV:	14K07346
CCV Low Level:	14K20068
LCS:	14K07344
MS/MSD:	14K07346

Reagent Standards

HNO3:	14K18881
HCl:	14J02360
KMNO4:	14K18955
K2S2O8:	14J29857
NaCl:	13J04016
H8N2O6S:	14K13670
SnCl:	14I09234
H2SO4:	14K06266
SiO2:	
Aqua Regia:	

Comments:

Worksheet ID:369925

Laboratory Bench Sheet

Printed:11/22/2014 18:35

Workgroup:	WG756120
Balance Name:	TCLPBAL1
Test:	Mercury
Method:	7470A
Prep Analyst:	572
Prep Date:	112214

Calibration Standards

0.1 ppb	14K20068
0.2ppb	14K20068
0.4 ppb	14K20068
1.0 ppb	14K20068
2.0 ppb	14K20068
5.0 ppb	14K07346

Hot Block

Name:HGA

Temp On:	92 deg C
Temp Off:	95 deg C
Time On:	1630
Time Off:	1830

QC Standards

ICV:	14K07344
ICV Low Level:	14K20068
CCV:	14K07346
CCV Low Level:	14K20068
LCS:	14K07344
MS/MSD:	14K07346

Reagent Standards

HNO3:	14K18881
HCl:	14J02360
KMNO4:	14K18955
K2S2O8:	14J29857
NaCl:	13J04016
H8N2O6S:	14K13670
SnCl:	14I09234
H2SO4:	14K06266
SiO2:	
Aqua Regia:	

Comments:

Worksheet ID:369925

Laboratory Benchsheet

Sample ID	Matrix	Initial Vol	Prep Vol	Aliquot Vol	Diluted To Vol	Workgroup	Units	Color	Description
BLANK WG755978	TC1	3.0000	30			WG755978	mL	Colorless	Clear
LCS WG755978	TC1	3.0000	30			WG755978	mL	Colorless	Clear
LCSD WG755978	TC1	3.0000	30			WG755978	mL	Colorless	Clear
L734377-01 WG755978	TCLP	3.0000	30			WG755978	mL	Colorless	Clear
MS WG755978 L734377-01	TC1	3.0000	30			WG755978	mL	Colorless	Clear
MSD WG755978 L734377-01	TC1	3.0000	30			WG755978	mL	Colorless	Clear
SD WG755978 L734377-01	TC1	3.0000	30	2	10	WG755978	mL	Colorless	Clear
L734385-08 WG755978	TCLP	3.0000	30			WG755978	mL	Brown	Opaque
L734389-02 WG755978	TCLP	3.0000	30			WG755978	mL	Colorless	Clear
L734418-01 WG755978	TCLP	3.0000	30			WG755978	mL	Brown	Opaque
L734573-01 WG755978	TCLP	3.0000	30			WG755978	mL	Colorless	Clear
L734573-02 WG755978	TCLP	3.0000	30			WG755978	mL	Colorless	Clear
L734573-03 WG755978	TCLP	3.0000	30			WG755978	mL	Colorless	Clear
L734573-04 WG755978	TCLP	3.0000	30			WG755978	mL	Colorless	Clear
L734573-05 WG755978	TCLP	3.0000	30			WG755978	mL	Colorless	Clear

Comments:

Worksheet ID:

Laboratory Benchsheet

Sample ID	Matrix	Initial Vol	Prep Vol	Aliquot Vol	Diluted To Vol	Workgroup	Units	Color	Description
L734624-01 WG755978	TCLP	3.0000	30			WG755978	mL	Colorless	Clear
L734651-02 WG755978	TCLP	3.0000	30			WG755978	mL	Colorless	Clear
INSTBLK WG755978	TC1	30.0000	30			WG755978	mL		
BLANK WG756005	GW	30.0000	30			WG756005	mL	Colorless	Clear
LCS WG756005	GW	30.0000	30			WG756005	mL	Colorless	Clear
LCSD WG756005	GW	30.0000	30			WG756005	mL	Colorless	Clear
L734644-01 WG756005	GW	30.0000	30			WG756005	mL	Colorless	Clear
MS WG756005 L734644-01	GW	30.0000	30			WG756005	mL	Colorless	Clear
MSD WG756005 L734644-01	GW	30.0000	30			WG756005	mL	Colorless	Clear
SD WG756005 L734644-01	GW	30.0000	30	2	10	WG756005	mL	Colorless	Clear
L734644-02 WG756005	GW	30.0000	30			WG756005	mL	Colorless	Clear
L734644-04 WG756005	GW	30.0000	30			WG756005	mL	Colorless	Clear
L734644-05 WG756005	GW	30.0000	30			WG756005	mL	Colorless	Clear
L734644-08 WG756005	GW	30.0000	30			WG756005	mL	Colorless	Clear
L734644-10 WG756005	GW	30.0000	30			WG756005	mL	Colorless	Clear

Comments:

Worksheet ID:

Laboratory Benchsheet

Sample ID	Matrix	Initial Vol	Prep Vol	Aliquot Vol	Diluted To Vol	Workgroup	Units	Color	Description
L734644-11 WG756005	GW	30.0000	30			WG756005	mL	Colorless	Clear
L734707-01 WG756005	GW	30.0000	30			WG756005	mL	Colorless	Clear
L734707-02 WG756005	GW	30.0000	30			WG756005	mL	Colorless	Clear
L734707-03 WG756005	GW	30.0000	30			WG756005	mL	Colorless	Clear
L734707-04 WG756005	GW	30.0000	30			WG756005	mL	Colorless	Clear
L734707-05 WG756005	GW	30.0000	30			WG756005	mL	Colorless	Clear
L734707-06 WG756005	GW	30.0000	30			WG756005	mL	Colorless	Clear
L734891-01 WG756005	GW	30.0000	30			WG756005	mL	Colorless	Clear
L734936-03 WG756005	GW	30.0000	30			WG756005	mL	Brown	Opaque
L734940-01 WG756005	GW	30.0000	30			WG756005	mL	Colorless	Clear
L734940-02 WG756005	GW	30.0000	30			WG756005	mL	Colorless	Clear
INSTBLK WG756005	GW	30.0000	30			WG756005	mL		
BLANK WG755988	WW	30.0000	30			WG755988	mL	Colorless	Clear
LCS WG755988	WW	30.0000	30			WG755988	mL	Colorless	Clear
LCSD WG755988	WW	30.0000	30			WG755988	mL	Colorless	Clear

Comments:

Worksheet ID:

Laboratory Benchsheet

Sample ID	Matrix	Initial Vol	Prep Vol	Aliquot Vol	Diluted To Vol	Workgroup	Units	Color	Description
L734771-01 WG755988	WW	30.0000	30			WG755988	mL	Colorless	Clear
MS WG755988 L734771-01	WW	30.0000	30			WG755988	mL	Colorless	Clear
MSD WG755988 L734771-01	WW	30.0000	30			WG755988	mL	Colorless	Clear
SD WG755988 L734771-01	WW	30.0000	30	2	10	WG755988	mL	Colorless	Clear
L734772-01 WG755988	WW	30.0000	30			WG755988	mL	Colorless	Clear
L734777-01 WG755988	WW	30.0000	30			WG755988	mL	Brown	Opaque
L734874-01 WG755988	WW	30.0000	30			WG755988	mL	Colorless	Clear
L734921-01 WG755988	WW	30.0000	30			WG755988	mL	Colorless	Clear
L734921-03 WG755988	WW	30.0000	30			WG755988	mL	Brown	Opaque
L734938-01 WG755988	WW	30.0000	30			WG755988	mL	Colorless	Opaque
L734939-01 WG755988	WW	30.0000	30			WG755988	mL	Brown	Opaque
L734948-01 WG755988	WW	30.0000	30			WG755988	mL	Colorless	Clear
L734948-03 WG755988	WW	30.0000	30			WG755988	mL	Colorless	Clear
INSTBLK WG755988	WW	30.0000	30			WG755988	mL		
BLANK WG756153	GW	30.0000	30			WG756153	mL	Colorless	Clear

Comments:

Worksheet ID:

Laboratory Benchsheet

Sample ID	Matrix	Initial Vol	Prep Vol	Aliquot Vol	Diluted To Vol	Workgroup	Units	Color	Description
LCS WG756153	GW	30.0000	30			WG756153	mL	Colorless	Clear
LCSD WG756153	GW	30.0000	30			WG756153	mL	Colorless	Clear
L735015-01 WG756153	GW	30.0000	30			WG756153	mL	Colorless	Clear
MS WG756153 L735015-01	GW	30.0000	30			WG756153	mL	Colorless	Clear
MSD WG756153 L735015-01	GW	30.0000	30			WG756153	mL	Colorless	Clear
SD WG756153 L735015-01	GW	30.0000	30	2	10	WG756153	mL	Colorless	Clear
L734966-01 WG756153	GW	30.0000	30			WG756153	mL	Brown	Clear
L735015-02 WG756153	GW	30.0000	30			WG756153	mL	Brown	Clear
L735015-03 WG756153	GW	30.0000	30			WG756153	mL	Colorless	Clear
L735015-04 WG756153	GW	30.0000	30			WG756153	mL	Colorless	Clear
L735015-05 WG756153	GW	30.0000	30			WG756153	mL	Colorless	Clear
L735015-06 WG756153	GW	30.0000	30			WG756153	mL	Colorless	Clear
L735015-07 WG756153	GW	30.0000	30			WG756153	mL	Colorless	Clear
L735015-08 WG756153	GW	30.0000	30			WG756153	mL	Colorless	Clear
L735015-09 WG756153	GW	30.0000	30			WG756153	mL	Colorless	Clear

Comments:

Worksheet ID:

Laboratory Benchsheet

Sample ID	Matrix	Initial Vol	Prep Vol	Aliquot Vol	Diluted To Vol	Workgroup	Units	Color	Description
L735015-10 WG756153	GW	30.0000	30			WG756153	mL	Colorless	Clear
L735015-11 WG756153	GW	30.0000	30			WG756153	mL	Colorless	Clear
L735015-12 WG756153	GW	30.0000	30			WG756153	mL	Colorless	Clear
L735015-13 WG756153	GW	30.0000	30			WG756153	mL	Colorless	Clear
L735015-14 WG756153	GW	30.0000	30			WG756153	mL	Colorless	Clear
INSTBLK WG756153	GW	30.0000	30			WG756153	mL		
BLANK WG756299	TC1	3.0000	30			WG756299	mL	Colorless	Clear
LCS WG756299	TC1	3.0000	30			WG756299	mL	Colorless	Clear
LCSD WG756299	TC1	3.0000	30			WG756299	mL	Colorless	Clear
L734683-01 WG756299	TCLP	3.0000	30			WG756299	mL	Brown	Clear
MS WG756299 L734683-01	TC1	3.0000	30			WG756299	mL	Brown	Clear
MSD WG756299 L734683-01	TC1	3.0000	30			WG756299	mL	Brown	Clear
SD WG756299 L734683-01	TC1	3.0000	30	2	10	WG756299	mL	Brown	Clear
L734421-01 WG756299	TCLP	3.0000	30			WG756299	mL	Brown	Clear
L734679-01 WG756299	TCLP	3.0000	30			WG756299	mL	Colorless	Clear

Comments:

Worksheet ID:

Laboratory Benchsheet

Sample ID	Matrix	Initial Vol	Prep Vol	Aliquot Vol	Diluted To Vol	Workgroup	Units	Color	Description
L734683-02 WG756299	TCLP	3.0000	30			WG756299	mL	Colorless	Clear
L734687-01 WG756299	TCLP	3.0000	30			WG756299	mL	Colorless	Clear
L734709-02 WG756299	TCLP	3.0000	30			WG756299	mL	Colorless	Clear
L734793-03 WG756299	TCLP	3.0000	30			WG756299	mL	Colorless	Clear
INSTBLK WG756299	TC1	30.0000	30			WG756299	mL		
BLANK WG756120	GW	30.0000	30			WG756120	mL	Colorless	Clear
LCS WG756120	GW	30.0000	30			WG756120	mL	Colorless	Clear
LCSD WG756120	GW	30.0000	30			WG756120	mL	Colorless	Clear
L734983-01 WG756120	GW	30.0000	30			WG756120	mL	Colorless	Clear
MS WG756120 L734983-01	GW	30.0000	30			WG756120	mL	Colorless	Clear
MSD WG756120 L734983-01	GW	30.0000	30			WG756120	mL	Colorless	Clear
SD WG756120 L734983-01	GW	30.0000	30	2	10	WG756120	mL	Colorless	Clear
L734635-01 WG756120	GW	30.0000	30			WG756120	mL	Brown	Opaque
L734639-01 WG756120	GW	30.0000	30			WG756120	mL	Brown	Opaque
L734667-04 WG756120	GW	30.0000	30			WG756120	mL	Brown	Opaque

Comments:

Worksheet ID:

Laboratory Benchsheet

Sample ID	Matrix	Initial Vol	Prep Vol	Aliquot Vol	Diluted To Vol	Workgroup	Units	Color	Description
L734717-01 WG756120	GW	30.0000	30			WG756120	mL	Colorless	Clear
L734810-03 WG756120	GW	30.0000	30			WG756120	mL	Brown	Opaque
L734810-05 WG756120	GW	30.0000	30			WG756120	mL	Brown	Opaque
L734810-07 WG756120	GW	30.0000	30			WG756120	mL	Brown	Opaque
L734810-09 WG756120	GW	30.0000	30			WG756120	mL	Brown	Opaque
L734905-01 WG756120	GW	30.0000	30			WG756120	mL	Colorless	Clear
L734905-02 WG756120	GW	30.0000	30			WG756120	mL	Colorless	Clear
L734983-02 WG756120	GW	30.0000	30			WG756120	mL	Colorless	Clear
L734983-03 WG756120	GW	30.0000	30			WG756120	mL	Colorless	Clear
L735172-02 WG756120	GW	30.0000	30			WG756120	mL	Brown	Clear
L735181-02 WG756120	GW	30.0000	30			WG756120	mL	Brown	Opaque
L735181-05 WG756120	GW	30.0000	30			WG756120	mL	Brown	Clear
L735181-07 WG756120	GW	30.0000	30			WG756120	mL	Brown	Opaque
INSTBLK WG756120	GW	30.0000	30			WG756120	mL		

Comments:

Worksheet ID:

ENVIRONMENTAL SCIENCE CORP.

Environmental Science Corp.

Work Group Report (wk02)

22-NOV-14 06:35 PM

Work Group: WG756299

Department: 5 Metals

Operator: 572

Created: 22-NOV-14

Due:

Sample	Container	Account Name	Product	Matrix	Status	Collected	Due Date	R Cont. Type	
L734421-01		United Refining Co.-Environmental	HG	TCLP	HERE	18-NOV-14	26-NOV-14	R5	
L734679-01		Partners Env. Consulting - Solon, O	HG	TCLP	HERE	13-NOV-14	28-NOV-14	R5	
L734683-01		Marathon Petroleum Co. LLC	HG	TCLP	HERE	18-NOV-14	28-NOV-14	R5	
L734683-02		Marathon Petroleum Co. LLC	HG	TCLP	HERE	18-NOV-14	28-NOV-14	R5	
L734687-01		ERM - BNSF Region 6	HG	TCLP	HERE	19-NOV-14	28-NOV-14	R5	
L734709-02		Southern Star Central Pipeline Inc.	HG	TCLP	HERE	19-NOV-14	24-NOV-14	R3	
L734793-03		Envirosure	HG	TCLP	HERE	14-NOV-14	28-NOV-14	RX	

Comments:

ENVIRONMENTAL SCIENCE CORP.

Environmental Science Corp.

Work Group Report (wk02)

21-NOV-14 11:24 PM

Work Group: WG756005

Department: 4 Metals Prep

Operator: 628

Created: 21-NOV-14

Due:

Sample	Container	Account Name	Product	Matrix	Status	Collected	Due Date	R Cont. Type	
L734644-01	S17649886	AMEC Env. & Infrastructure - Lexing	HG	GW	DONE	19-NOV-14	28-NOV-14	D1	500mlHDPE-HNO3
L734644-02	17692232	AMEC Env. & Infrastructure - Lexing	HG	GW	DONE	19-NOV-14	28-NOV-14	D1	500mlHDPE-HNO3
L734644-04	17692254	AMEC Env. & Infrastructure - Lexing	HG	GW	DONE	19-NOV-14	28-NOV-14	D1	500mlHDPE-HNO3
L734644-05	17692264	AMEC Env. & Infrastructure - Lexing	HG	GW	DONE	19-NOV-14	28-NOV-14	D1	500mlHDPE-HNO3
L734644-08	17692286	AMEC Env. & Infrastructure - Lexing	HG	GW	DONE	19-NOV-14	28-NOV-14	D1	500mlHDPE-HNO3
L734644-10	17692302	AMEC Env. & Infrastructure - Lexing	HG	GW	DONE	19-NOV-14	28-NOV-14	D1	500mlHDPE-HNO3
L734644-11	17692322	AMEC Env. & Infrastructure - Lexing	HG	GW	DONE	19-NOV-14	28-NOV-14	D1	500mlHDPE-HNO3
L734707-01	S17615754	Neel-Schaffer - Jackson, MS	HG	GW	DONE	19-NOV-14	28-NOV-14	D1	500mlHDPE-HNO3
L734707-02	S17615748	Neel-Schaffer - Jackson, MS	HG	GW	DONE	19-NOV-14	28-NOV-14	D1	500mlHDPE-HNO3
L734707-03	S17615760	Neel-Schaffer - Jackson, MS	HG	GW	DONE	19-NOV-14	28-NOV-14	D1	500mlHDPE-HNO3
L734707-04	S17615766	Neel-Schaffer - Jackson, MS	HG	GW	DONE	19-NOV-14	28-NOV-14	D1	500mlHDPE-HNO3
L734707-05	S17615772	Neel-Schaffer - Jackson, MS	HG	GW	DONE	19-NOV-14	28-NOV-14	D1	500mlHDPE-HNO3
L734707-06	S17615778	Neel-Schaffer - Jackson, MS	HG	GW	DONE	19-NOV-14	28-NOV-14	D1	500mlHDPE-HNO3
L734891-01	S17533453	ARCADIS US - OK	HG	GW	DONE	20-NOV-14	01-DEC-14	RX	500mlHDPE-HNO3
L734936-03	17698353	Kleinfelder - Irvine, CA	HG	GW	DONE	20-NOV-14	24-NOV-14	R2	250mlHDPE-HNO3
L734940-01	S17625446	The Mannik & Smith Group - Maum	HG	GW	DONE	20-NOV-04	18-DEC-04	R5	500mlHDPE-HNO3
L734940-02	S17625457	The Mannik & Smith Group - Maum	HG	GW	DONE	20-NOV-04	18-DEC-04	R5	500mlHDPE-HNO3

Comments:

L734644-01	Need 1X dilution on 8270BN.
L734644-02	Need 1X dilution on 8270BN.
L734644-04	Need 1X dilution on 8270BN.
L734644-05	Need 1X dilution on 8270BN.
L734644-08	Need 1X dilution on 8270BN.
L734644-10	Need 1X dilution on 8270BN.
L734644-11	Need 1X dilution on 8270BN.
L734936-03	Collected in CA. Samples expire at 1230.
L734940-01	MISC Subout-Reactive Silica

ENVIRONMENTAL SCIENCE CORP.

Environmental Science Corp.

Work Group Report (wk02)

21-NOV-14 11:25 PM

Work Group: WG755988

Department: 5 Metals

Operator: 628

Created: 21-NOV-14

Due:

Sample	Container	Account Name	Product	Matrix	Status	Collected	Due Date	R Cont. Type	
L734771-01	S17270732	Pulaski Pretreatment Program	HG	WW	HERE	20-NOV-14	28-NOV-14	R5	500mlHDPE-HNO3
L734772-01	S17277134	Pulaski Pretreatment Program	HG	WW	HERE	19-NOV-14	02-DEC-14	R5	500mlHDPE-HNO3
L734777-01		Pulaski Pretreatment Program	HG	WW	HERE	20-NOV-14	02-DEC-14	R5	
L734874-01	S17522959	5 Star Manufacturing	HG	WW	HERE	20-NOV-14	03-DEC-14	R5	1L-HDPE-Add HNO
L734921-01	S17680326	Sparta Public Works	HG	WW	HERE	20-NOV-14	03-DEC-14	R5	500mlHDPE-HNO3
L734921-03	S17680319	Sparta Public Works	HG	WW	HERE	20-NOV-14	03-DEC-14	R5	500mlHDPE-HNO3
L734938-01	S17519999	Bradburne, Briller, & Johnson-IL	HG	WW	HERE	21-NOV-14	01-DEC-14	R5	500mlHDPE-HNO3
L734939-01	S17363032	UNARCO Materials Storage	HG	WW	HERE	21-NOV-14	03-DEC-14	R5	1L-HDPE-Add HNO
L734948-01	S17449283	Sweetwater Pretreatment Program	HG	WW	HERE	20-NOV-14	01-DEC-14	R5	500mlHDPE-HNO3
L734948-03	S17449287	Sweetwater Pretreatment Program	HG	WW	HERE	20-NOV-14	01-DEC-14	R5	500mlHDPE-HNO3

Comments:

ENVIRONMENTAL SCIENCE CORP.

Environmental Science Corp.

Work Group Report (wk02)

21-NOV-14 11:25 PM

Work Group: WG755978

Department: 5 Metals

Operator: 628

Created: 21-NOV-14

Due:

Sample	Container	Account Name	Product	Matrix	Status	Collected	Due Date	R Cont. Type	
L734377-01		Brownfield Science & Technology	HG	TCLP	HERE	17-NOV-14	26-NOV-14	R5	
L734385-08		Arcadis - BNSF Region 6	HG	TCLP	HERE	13-NOV-14	26-NOV-14	R5	
L734389-02		Envirosure	HG	TCLP	HERE	13-NOV-14	26-NOV-14	RX	
L734418-01		Yorozu Automotive-Tennessee	HG	TCLP	HERE	17-NOV-14	26-NOV-14	R5	
L734573-01		Hazclean, Inc.	HG	TCLP	HERE	15-NOV-14	25-NOV-14	R4	
L734573-02		Hazclean, Inc.	HG	TCLP	HERE	15-NOV-14	25-NOV-14	R4	
L734573-03		Hazclean, Inc.	HG	TCLP	HERE	15-NOV-14	25-NOV-14	R4	
L734573-04		Hazclean, Inc.	HG	TCLP	HERE	15-NOV-14	25-NOV-14	R4	
L734573-05		Hazclean, Inc.	HG	TCLP	HERE	15-NOV-14	25-NOV-14	R4	
L734624-01		Kleinfelder - Littleton, CO	HG	TCLP	HERE	19-NOV-14	25-NOV-14	R4	
L734651-02		Southern Star Central Pipeline Inc.	HG	TCLP	HERE	19-NOV-14	24-NOV-14	R3	

Comments:

ENVIRONMENTAL SCIENCE CORP.

Environmental Science Corp.

Work Group Report (wk02)

22-NOV-14 06:36 PM

Work Group: WG756120

Department: 4 Metals Prep

Operator: 572

Created: 21-NOV-14

Due:

Sample	Container	Account Name	Product	Matrix	Status	Collected	Due Date	R Cont. Type	
L734635-01		Waste Management	HG	GW	DONE	18-NOV-14	25-NOV-14	R4	
L734639-01		Waste Management	HG	GW	DONE	19-NOV-14	25-NOV-14	R4	
L734667-04		SCS Aquaterra	HG	GW	DONE	19-NOV-14	28-NOV-14	R5	
L734717-01	17694038	Kinder Morgan - Rocklin, CA-AZ Wo	HG	GW	DONE	19-NOV-14	28-NOV-14	R5	500mlHDPE-HNO3
L734810-03	17695423	URS Corporation - Tucson AZ - 10	HG	GW	DONE	19-NOV-14	28-NOV-14	R5	500mlHDPE-HNO3
L734810-05	17695434	URS Corporation - Tucson AZ - 10	HG	GW	DONE	19-NOV-14	28-NOV-14	R5	500mlHDPE-HNO3
L734810-07	17695445	URS Corporation - Tucson AZ - 10	HG	GW	DONE	19-NOV-14	28-NOV-14	R5	500mlHDPE-HNO3
L734810-09	17695456	URS Corporation - Tucson AZ - 10	HG	GW	DONE	19-NOV-14	28-NOV-14	R5	500mlHDPE-HNO3
L734905-01	S17656962	Environmental Management & Engi	HG	GW	DONE	20-NOV-14	01-DEC-14	D1	500mlHDPE-HNO3
L734905-02	S17656972	Environmental Management & Engi	HG	GW	DONE	20-NOV-14	01-DEC-14	D1	500mlHDPE-HNO3
L734983-01	S17682399	Kinder Morgan- Phoenix, AZ	HG	GW	DONE	20-NOV-14	01-DEC-14	R5	500mlHDPE-HNO3
L734983-02	S17682412	Kinder Morgan- Phoenix, AZ	HG	GW	DONE	20-NOV-14	01-DEC-14	R5	500mlHDPE-HNO3
L734983-03	S17682426	Kinder Morgan- Phoenix, AZ	HG	GW	DONE	20-NOV-14	01-DEC-14	R5	500mlHDPE-HNO3
L735172-02	17703185	AMEC - Asheville, NC	HG	GW	DONE	19-NOV-14	28-NOV-14	R5	500mlHDPE-HNO3
L735181-02	17703332	URS Corporation - Tucson AZ - 10	HG	GW	DONE	19-NOV-14	01-DEC-14	R5	500mlHDPE-HNO3
L735181-05	17703356	URS Corporation - Tucson AZ - 10	HG	GW	DONE	19-NOV-14	01-DEC-14	R5	500mlHDPE-HNO3
L735181-07	17703374	URS Corporation - Tucson AZ - 10	HG	GW	DONE	19-NOV-14	01-DEC-14	R5	500mlHDPE-HNO3

Comments:

L734635-01	pH adjusted in Login at 1045 on 11/20 (5ml-HNO3) - JCR
L734639-01	pH adjusted in Login at 1045 on 11/20 (5ml-HNO3) - JCR
L734667-04	Pour up RV tests per TSR. Recieved remaining containers on 11/21/14 MS
L734717-01	changed V8260BTEXM to V8260AZ per TSR email - 11/21 JCR
L734810-03	EDD/QC4/DOD - Diss Metals field-filtered and preserved. - JCR 11/20
L734810-05	EDD/QC4/DOD - Diss Metals field-filtered and preserved. - JCR 11/20
L734810-07	EDD/QC4/DOD - Diss Metals field-filtered and preserved. - JCR 11/20
L734810-09	EDD/QC4/DOD - Diss Metals field-filtered and preserved. - JCR 11/20
L735181-02	EDD/QC4/DOD

ENVIRONMENTAL SCIENCE CORP.

Environmental Science Corp.

Work Group Report (wk02)

22-NOV-14 06:36 PM

2 2

Work Group: WG756120

Department: 4 Metals Prep

Operator: 572

Created: 21-NOV-14

Due:

Sample	Container	Account Name	Product	Matrix	Status	Collected	Due Date	R Cont. Type
L735181-05	EDD/QC4/DOD							
L735181-07	EDD/QC4/DOD							

ENVIRONMENTAL SCIENCE CORP.

Environmental Science Corp.

Work Group Report (wk02)

21-NOV-14 11:24 PM

Work Group: WG756153

Department: 4 Metals Prep

Operator: 572

Created: 21-NOV-14

Due:

Sample	Container	Account Name	Product	Matrix	Status	Collected	Due Date	R	Cont. Type
L734966-01	S17458311	SCS Aquaterra	HG	GW	DONE	20-NOV-14	01-DEC-14	R5	500mlHDPE-HNO3
L735015-01	S17534888	TVA-Shawnee Fossil	HG	GW	DONE	18-NOV-14	02-DEC-14	R5	500mlHDPE-HNO3
L735015-02		TVA-Shawnee Fossil	HG	GW	DONE	19-NOV-14	02-DEC-14	R5	
L735015-03	17700710	TVA-Shawnee Fossil	HG	GW	DONE	19-NOV-14	02-DEC-14	R5	500mlHDPE-HNO3
L735015-04	17700718	TVA-Shawnee Fossil	HG	GW	DONE	20-NOV-14	02-DEC-14	R5	500mlHDPE-HNO3
L735015-05	17700726	TVA-Shawnee Fossil	HG	GW	DONE	20-NOV-14	02-DEC-14	R5	500mlHDPE-HNO3
L735015-06	17700734	TVA-Shawnee Fossil	HG	GW	DONE	20-NOV-14	02-DEC-14	R5	500mlHDPE-HNO3
L735015-07	17700742	TVA-Shawnee Fossil	HG	GW	DONE	20-NOV-14	02-DEC-14	R5	500mlHDPE-HNO3
L735015-08	17700750	TVA-Shawnee Fossil	HG	GW	DONE	19-NOV-14	02-DEC-14	R5	500mlHDPE-HNO3
L735015-09	17700758	TVA-Shawnee Fossil	HG	GW	DONE	18-NOV-14	02-DEC-14	R5	500mlHDPE-HNO3
L735015-10	17700766	TVA-Shawnee Fossil	HG	GW	DONE	18-NOV-14	02-DEC-14	R5	500mlHDPE-HNO3
L735015-11	17700774	TVA-Shawnee Fossil	HG	GW	DONE	18-NOV-14	02-DEC-14	R5	500mlHDPE-HNO3
L735015-12	17700782	TVA-Shawnee Fossil	HG	GW	DONE	19-NOV-14	02-DEC-14	R5	500mlHDPE-HNO3
L735015-13	17700790	TVA-Shawnee Fossil	HG	GW	DONE	19-NOV-14	02-DEC-14	R5	500mlHDPE-HNO3
L735015-14	17700798	TVA-Shawnee Fossil	HG	GW	DONE	20-NOV-14	02-DEC-14	R5	500mlHDPE-HNO3

Comments:

L735015-01	FULL LIST OF DISSOLVED METALS FOR SAMPLE W/ TURBIDITY > 5 NTU
L735015-02	FULL LIST OF DISSOLVED METALS FOR SAMPLE W/ TURBIDITY > 5 NTU
L735015-03	FULL LIST OF DISSOLVED METALS FOR SAMPLE W/ TURBIDITY > 5 NTU
L735015-04	FULL LIST OF DISSOLVED METALS FOR SAMPLE W/ TURBIDITY > 5 NTU
L735015-05	FULL LIST OF DISSOLVED METALS FOR SAMPLE W/ TURBIDITY > 5 NTU
L735015-06	FULL LIST OF DISSOLVED METALS FOR SAMPLE W/ TURBIDITY > 5 NTU
L735015-07	FULL LIST OF DISSOLVED METALS FOR SAMPLE W/ TURBIDITY > 5 NTU
L735015-08	FULL LIST OF DISSOLVED METALS FOR SAMPLE W/ TURBIDITY > 5 NTU
L735015-09	FULL LIST OF DISSOLVED METALS FOR SAMPLE W/ TURBIDITY > 5 NTU
L735015-10	FULL LIST OF DISSOLVED METALS FOR SAMPLE W/ TURBIDITY > 5 NTU
L735015-11	FULL LIST OF DISSOLVED METALS FOR SAMPLE W/ TURBIDITY > 5 NTU
L735015-12	FULL LIST OF DISSOLVED METALS FOR SAMPLE W/ TURBIDITY > 5 NTU

ENVIRONMENTAL SCIENCE CORP.

Environmental Science Corp.

Work Group Report (wk02)

21-NOV-14 11:24 PM

2 2

Work Group: WG756153

Department: 4 Metals Prep

Operator: 572

Created: 21-NOV-14

Due:

Sample	Container	Account Name	Product	Matrix	Status	Collected	Due Date	R Cont. Type
L735015-13	FULL LIST OF DISSOLVED METALS FOR SAMPLE W/ TURBIDITY > 5 NTU							
L735015-14	FULL LIST OF DISSOLVED METALS FOR SAMPLE W/ TURBIDITY > 5 NTU							

==========

Analysis Begun

Logged In Analyst: hg3 **Technique: AA FIMS-MHS**
Spectrometer Model: FIMS-100, S/N B050-9550 **Autosampler Model: AS-93plus**

Sample Information File: C:\data-FIMS3\Sample Information\112214CVAA3 W.sif
Batch ID: 572
Results Data Set: 112214CVAA3 W
Results Library: C:\data-FIMS3\Results\Results.mdb

==========

Method Loaded
Method Name: Hg Water PPM-TEST **Method Last Saved: 11/21/2014 1:05:15 PM**
Method Description: HgWater

Analyte	Calibration Equation	Wavelength
Hg 253.7	Lin, Calc Int	253.7

==========

Sequence No.: 1 **Autosampler Location: 1**
Sample ID: CALBLK **Date Collected: 11/22/2014 3:35:46 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: CALBLK

Repl #	SampleConc mg/L	StndConc mg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1		[0.00]	0.0000	-0.0021	0.0000	15:36:46	Yes
2		[0.00]	0.0001	-0.0009	0.0001	15:37:22	Yes
3		[0.00]	0.0001	0.0012	0.0001	15:37:59	Yes
Mean:		[0.00]	0.0001				
SD:		0.00	0.0001				
%RSD:		0.00	70.16				

Auto-zero performed.

==========

Sequence No.: 2 **Autosampler Location: 2**
Sample ID: STD1 14K20068 **Date Collected: 11/22/2014 3:38:22 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: STD1 14K20068

Repl #	SampleConc mg/L	StndConc mg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1		[0.00010]	0.0013	0.0095	0.0014	15:39:19	Yes
2		[0.00010]	0.0013	0.0083	0.0013	15:39:56	Yes
3		[0.00010]	0.0014	0.0103	0.0015	15:40:32	Yes
Mean:		[0.00010]	0.0013				
SD:		0.00000	0.0001				
%RSD:		0.00000	5.73				

Standard number 1 applied. [0.00010]
Correlation Coef.: 1.000000 Slope: 13.19633 Intercept: 0.00000

==========

Sequence No.: 3 **Autosampler Location: 3**
Sample ID: STD2 14K20068 **Date Collected: 11/22/2014 3:40:56 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: STD2 14K20068

Repl #	SampleConc mg/L	StndConc mg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1		[0.00020]	0.0028	0.0197	0.0029	15:41:53	Yes
2		[0.00020]	0.0030	0.0215	0.0031	15:42:30	Yes

3	[0.00020]	0.0028	0.0201	0.0029	15:43:07	Yes
Mean:	[0.00020]	0.0028				
SD:	0.00000	0.0001				
%RSD:	0.00000	4.57				

Standard number 2 applied. [0.00020]
Correlation Coef.: 0.999125 Slope: 14.22810 Intercept: -0.00003

==========

Sequence No.: 4 **Autosampler Location: 4**
Sample ID: STD3 14K20068 **Date Collected: 11/22/2014 3:43:31 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: STD3 14K20068

Repl #	SampleConc mg/L	StndConc mg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1		[0.00040]	0.0061	0.0455	0.0062	15:44:28	Yes
2		[0.00040]	0.0062	0.0443	0.0062	15:45:05	Yes
3		[0.00040]	0.0062	0.0453	0.0063	15:45:41	Yes
Mean:		[0.00040]	0.0062				
SD:		0.00000	0.0000				
%RSD:		0.00000	0.33				

Standard number 3 applied. [0.00040]
Correlation Coef.: 0.998804 Slope: 15.52259 Intercept: -0.00014

==========

Sequence No.: 5 **Autosampler Location: 5**
Sample ID: STD4 14K20068 **Date Collected: 11/22/2014 3:46:06 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: STD4 14K20068

Repl #	SampleConc mg/L	StndConc mg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1		[0.00100]	0.0153	0.1113	0.0153	15:47:04	Yes
2		[0.00100]	0.0151	0.1092	0.0152	15:47:41	Yes
3		[0.00100]	0.0148	0.1072	0.0149	15:48:18	Yes
Mean:		[0.00100]	0.0151				
SD:		0.00000	0.0002				
%RSD:		0.00000	1.39				

Standard number 4 applied. [0.00100]
Correlation Coef.: 0.999785 Slope: 15.17678 Intercept: -0.00008

==========

Sequence No.: 6 **Autosampler Location: 6**
Sample ID: STD5 14K20068 **Date Collected: 11/22/2014 3:48:42 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: STD5 14K20068

Repl #	SampleConc mg/L	StndConc mg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1		[0.00200]	0.0307	0.2223	0.0307	15:49:39	Yes
2		[0.00200]	0.0304	0.2198	0.0305	15:50:15	Yes
3		[0.00200]	0.0304	0.2189	0.0304	15:50:51	Yes
Mean:		[0.00200]	0.0305				
SD:		0.00000	0.0002				
%RSD:		0.00000	0.53				

Standard number 5 applied. [0.00200]
Correlation Coef.: 0.999948 Slope: 15.27449 Intercept: -0.00011

==========

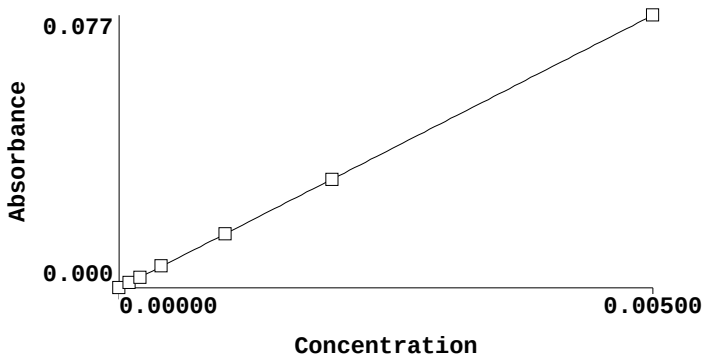
Sequence No.: 7 **Autosampler Location: 7**
Sample ID: STD6 14K07346 **Date Collected: 11/22/2014 3:51:14 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**

Dilution: **Sample Prep Vol:**

Replicate Data: STD6 14K07346

Repl #	SampleConc mg/L	StndConc mg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1		[0.00500]	0.0777	0.5712	0.0778	15:52:11	Yes
2		[0.00500]	0.0774	0.5646	0.0775	15:52:47	Yes
3		[0.00500]	0.0767	0.5609	0.0768	15:53:24	Yes
Mean:		[0.00500]	0.0773				
SD:		0.00000	0.0005				
%RSD:		0.00000	0.67				

Standard number 6 applied. [0.00500]
Correlation Coef.: 0.999979 Slope: 15.46690 Intercept: -0.00021



Calibration data for Hg 253.7 **Equation: Linear, Calculated Intercept**

ID	Mean Signal (Abs)	Entered Conc. mg/L	Calculated Conc. mg/L	Standard Deviation	%RSD
CALBLK	0.0000	0	0.00001	0.00	70.2
STD1 14K20068	0.0013	0.00010	0.00010	0.00	5.7
STD2 14K20068	0.0028	0.00020	0.00020	0.00	4.6
STD3 14K20068	0.0062	0.00040	0.00041	0.00	0.3
STD4 14K20068	0.0151	0.00100	0.00099	0.00	1.4
STD5 14K20068	0.0305	0.00200	0.00198	0.00	0.5
STD6 14K07346	0.0773	0.00500	0.00501	0.00	0.7

Correlation Coef.: 0.999979 Slope: 15.46690 Intercept: -0.00021

Analytical Sequence
Method: Hg Water PPM-TEST

Seq.	Loc.	ID	Status
1	1	CALBLK	Applied
2	2	STD1 14K20068	Applied
3	3	STD2 14K20068	Applied
4	4	STD3 14K20068	Applied
5	5	STD4 14K20068	Applied
6	6	STD5 14K20068	Applied
7	7	STD6 14K07346	Applied

==========

Analysis Begun

Logged In Analyst: hg3 **Technique: AA FIMS-MHS**
Spectrometer Model: FIMS-100, S/N B050-9550 **Autosampler Model: AS-93plus**

Sample Information File: C:\data-FIMS3\Sample Information\112214CVAA3 W.sif
Batch ID: 572
Results Data Set: 112214CVAA3 W
Results Library: C:\data-FIMS3\Results\Results.mdb

==========

Sequence No.: 1 **Autosampler Location: 156**
Sample ID: ICVLL 14K14700 **Date Collected: 11/22/2014 3:54:05 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: ICVLL 14K14700

Repl #	SampleConc mg/L	StndConc mg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.00021	0.00021	0.0030	0.0223	0.0031	15:55:04	Yes
2	0.00020	0.00020	0.0029	0.0213	0.0030	15:55:40	Yes
3	0.00020	0.00020	0.0028	0.0194	0.0029	15:56:17	Yes
Mean:	0.00020	0.00020	0.0029				
SD:	0.00001	0.00001	0.0001				
%RSD:	3.206	3.206	3.43				

QC value within limits for Hg 253.7 Recovery = 100.85%
All analyte(s) passed QC.

==========

Sequence No.: 2 **Autosampler Location: 157**
Sample ID: ICV 14K07344 **Date Collected: 11/22/2014 3:56:43 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: ICV 14K07344

Repl #	SampleConc mg/L	StndConc mg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.00302	0.00302	0.0465	0.3376	0.0466	15:57:42	Yes
2	0.00302	0.00302	0.0465	0.3380	0.0466	15:58:18	Yes
3	0.00301	0.00301	0.0464	0.3383	0.0465	15:58:55	Yes
Mean:	0.00302	0.00302	0.0465				
SD:	0.00000	0.00000	0.0001				
%RSD:	0.1332	0.1332	0.13				

QC value within limits for Hg 253.7 Recovery = 100.61%
All analyte(s) passed QC.

==========

Sequence No.: 3 **Autosampler Location: 1**
Sample ID: ICB **Date Collected: 11/22/2014 3:59:20 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: ICB

Repl #	SampleConc mg/L	StndConc mg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.00001	0.00001	-0.0001	-0.0014	-0.0000	16:00:17	Yes
2	0.00002	0.00002	0.0000	0.0010	0.0001	16:00:53	Yes
3	0.00002	0.00002	0.0000	0.0005	0.0001	16:01:30	Yes
Mean:	0.00001	0.00001	-0.0000				
SD:	0.00001	0.00001	0.0001				
%RSD:	46.60	46.60	751.94				

QC value within limits for Hg 253.7 Recovery = Not calculated
All analyte(s) passed QC.

Sequence No.: 104 **Autosampler Location: 99**
Sample ID: L734683-02 WG756299 **Date Collected: 11/22/2014 8:20:32 PM**
Analyst: 572 **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol: 3 mL**
Dilution: **Sample Prep Vol: 30 mL**

Replicate Data: L734683-02 WG756299

Repl #	SampleConc mg/L	StndConc mg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.00017	0.00002	0.0001	0.0012	0.0001	20:21:31	Yes
2	0.00016	0.00002	0.0000	0.0011	0.0001	20:22:07	Yes
3	0.00009	0.00001	-0.0001	-0.0014	0.0000	20:22:44	Yes
Mean:	0.00014	0.00001	0.0000				
SD:	0.00004	0.00000	0.0001				
%RSD:	31.26	31.26	610.67				

==========

Sequence No.: 105 **Autosampler Location: 100**
Sample ID: L734687-01 WG756299 **Date Collected: 11/22/2014 8:23:09 PM**
Analyst: 572 **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol: 3 mL**
Dilution: **Sample Prep Vol: 30 mL**

Replicate Data: L734687-01 WG756299

Repl #	SampleConc mg/L	StndConc mg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.00010	0.00001	-0.0001	-0.0004	0.0000	20:24:07	Yes
2	0.00016	0.00002	0.0000	0.0006	0.0001	20:24:44	Yes
3	0.00013	0.00001	-0.0000	0.0002	0.0001	20:25:21	Yes
Mean:	0.00013	0.00001	-0.0000				
SD:	0.00003	0.00000	0.0000				
%RSD:	22.39	22.39	509.18				

==========

Sequence No.: 106 **Autosampler Location: 8**
Sample ID: CCV 14K07346 **Date Collected: 11/22/2014 8:25:45 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: CCV 14K07346

Repl #	SampleConc mg/L	StndConc mg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.00259	0.00259	0.0399	0.3292	0.0400	20:26:42	Yes
2	0.00255	0.00255	0.0393	0.3208	0.0394	20:27:19	Yes
3	0.00253	0.00253	0.0390	0.3189	0.0391	20:27:55	Yes
Mean:	0.00256	0.00256	0.0394				
SD:	0.00003	0.00003	0.0005				
%RSD:	1.184	1.184	1.19				

QC value within limits for Hg 253.7 Recovery = 102.39%
All analyte(s) passed QC.

==========

Sequence No.: 107 **Autosampler Location: 1**
Sample ID: CCB **Date Collected: 11/22/2014 8:28:19 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: CCB

Repl #	SampleConc mg/L	StndConc mg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.00002	0.00002	0.0001	0.0010	0.0002	20:29:16	Yes
2	0.00001	0.00001	0.0000	0.0002	0.0001	20:29:54	Yes
3	0.00001	0.00001	-0.0000	-0.0008	0.0001	20:30:31	Yes
Mean:	0.00001	0.00001	0.0000				
SD:	0.00000	0.00000	0.0000				
%RSD:	18.02	18.02	195.21				

QC value within limits for Hg 253.7 Recovery = Not calculated
All analyte(s) passed QC.

Sequence No.: 108 **Autosampler Location: 101**
Sample ID: L734709-02 WG756299 **Date Collected: 11/22/2014 8:30:54 PM**
Analyst: 572 **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol: 3 mL**
Dilution: **Sample Prep Vol: 30 mL**

Replicate Data: L734709-02 WG756299

Repl #	SampleConc mg/L	StndConc mg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.00017	0.00002	0.0001	0.0010	0.0001	20:31:53	Yes
2	0.00020	0.00002	0.0001	0.0013	0.0002	20:32:29	Yes
3	0.00011	0.00001	-0.0000	0.0003	0.0001	20:33:05	Yes
Mean:	0.00016	0.00002	0.0000				
SD:	0.00004	0.00000	0.0001				
%RSD:	26.96	26.96	165.94				

Sequence No.: 109 **Autosampler Location: 102**
Sample ID: L734793-03 WG756299 **Date Collected: 11/22/2014 8:33:31 PM**
Analyst: 572 **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol: 3 mL**
Dilution: **Sample Prep Vol: 30 mL**

Replicate Data: L734793-03 WG756299

Repl #	SampleConc mg/L	StndConc mg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.00017	0.00002	0.0001	0.0012	0.0001	20:34:29	Yes
2	0.00010	0.00001	-0.0001	-0.0015	0.0000	20:35:05	Yes
3	0.00014	0.00001	0.0000	0.0001	0.0001	20:35:42	Yes
Mean:	0.00014	0.00001	0.0000				
SD:	0.00004	0.00000	0.0001				
%RSD:	27.65	27.65	>999.9%				

Sequence No.: 110 **Autosampler Location: 103**
Sample ID: INSTBLK WG756299 **Date Collected: 11/22/2014 8:36:07 PM**
Analyst: 572 **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol: 30 mL**
Dilution: **Sample Prep Vol: 30 mL**

Replicate Data: INSTBLK WG756299

Repl #	SampleConc mg/L	StndConc mg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.00001	0.00001	-0.0000	0.0001	0.0001	20:37:04	Yes
2	0.00001	0.00001	-0.0000	-0.0001	0.0001	20:37:41	Yes
3	0.00001	0.00001	-0.0000	-0.0005	0.0000	20:38:17	Yes
Mean:	0.00001	0.00001	-0.0000				
SD:	0.00000	0.00000	0.0000				
%RSD:	6.748	6.748	37.10				

Sequence No.: 111 **Autosampler Location: 104**
Sample ID: BLANK WG756120 **Date Collected: 11/22/2014 8:38:43 PM**
Analyst: 572 **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol: 30 mL**
Dilution: **Sample Prep Vol: 30 mL**

Replicate Data: BLANK WG756120

Repl #	SampleConc mg/L	StndConc mg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.00002	0.00002	0.0000	0.0006	0.0001	20:39:41	Yes
2	0.00001	0.00001	-0.0000	0.0003	0.0001	20:40:18	Yes
3	0.00002	0.00002	0.0001	0.0021	0.0002	20:40:54	Yes
Mean:	0.00002	0.00002	0.0000				

SD:	0.00000	0.00000	0.0001
%RSD:	29.67	29.67	170.73

==========

Sequence No.: 112 **Autosampler Location: 105**
Sample ID: LCS WG756120 **Date Collected: 11/22/2014 8:41:20 PM**
Analyst: 572 **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol: 30 mL**
Dilution: **Sample Prep Vol: 30 mL**

Replicate Data: LCS WG756120

Repl #	SampleConc mg/L	StndConc mg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.00312	0.00312	0.0481	0.3982	0.0482	20:42:18	Yes
2	0.00310	0.00310	0.0477	0.3924	0.0478	20:42:54	Yes
3	0.00312	0.00312	0.0481	0.3958	0.0482	20:43:31	Yes
Mean:	0.00311	0.00311	0.0479				
SD:	0.00001	0.00001	0.0002				
%RSD:	0.4534	0.4534	0.46				

==========

Sequence No.: 113 **Autosampler Location: 106**
Sample ID: LCSD WG756120 **Date Collected: 11/22/2014 8:43:56 PM**
Analyst: 572 **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol: 30 mL**
Dilution: **Sample Prep Vol: 30 mL**

Replicate Data: LCSD WG756120

Repl #	SampleConc mg/L	StndConc mg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.00284	0.00284	0.0437	0.3622	0.0438	20:44:54	Yes
2	0.00283	0.00283	0.0436	0.3578	0.0437	20:45:31	Yes
3	0.00286	0.00286	0.0441	0.3616	0.0442	20:46:07	Yes
Mean:	0.00284	0.00284	0.0438				
SD:	0.00002	0.00002	0.0002				
%RSD:	0.5663	0.5663	0.57				

==========

Sequence No.: 114 **Autosampler Location: 107**
Sample ID: L734983-01 WG756120 **Date Collected: 11/22/2014 8:46:32 PM**
Analyst: 572 **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol: 30 mL**
Dilution: **Sample Prep Vol: 30 mL**

Replicate Data: L734983-01 WG756120

Repl #	SampleConc mg/L	StndConc mg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.00001	0.00001	-0.0000	-0.0014	0.0000	20:47:30	Yes
2	0.00002	0.00002	0.0001	0.0009	0.0002	20:48:07	Yes
3	0.00002	0.00002	0.0000	0.0007	0.0001	20:48:43	Yes
Mean:	0.00002	0.00002	0.0000				
SD:	0.00000	0.00000	0.0001				
%RSD:	29.88	29.88	267.94				

==========

Sequence No.: 115 **Autosampler Location: 108**
Sample ID: MS WG756120 L734983-01 **Date Collected: 11/22/2014 8:49:08 PM**
Analyst: 572 **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol: 30 mL**
Dilution: **Sample Prep Vol: 30 mL**

Replicate Data: MS WG756120 L734983-01

Repl #	SampleConc mg/L	StndConc mg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.00305	0.00305	0.0470	0.3900	0.0471	20:50:07	Yes
2	0.00304	0.00304	0.0468	0.3848	0.0469	20:50:43	Yes
3	0.00303	0.00303	0.0466	0.3842	0.0467	20:51:20	Yes
Mean:	0.00304	0.00304	0.0468				

SD:	0.00001	0.00001	0.0002
%RSD:	0.4395	0.4395	0.44

==========

Sequence No.: 116
Sample ID: MSD WG756120 L734983-01
Analyst: 572
Initial Sample Wt:
Dilution:

Autosampler Location: 109
Date Collected: 11/22/2014 8:51:45 PM
Data Type: Original
Initial Sample Vol: 30 mL
Sample Prep Vol: 30 mL

Replicate Data: MSD WG756120 L734983-01

Repl #	SampleConc mg/L	StndConc mg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.00303	0.00303	0.0467	0.3874	0.0468	20:52:43	Yes
2	0.00302	0.00302	0.0465	0.3826	0.0466	20:53:20	Yes
3	0.00297	0.00297	0.0458	0.3784	0.0459	20:53:56	Yes
Mean:	0.00301	0.00301	0.0463				
SD:	0.00003	0.00003	0.0005				
%RSD:	1.011	1.011	1.02				

User canceled analysis.

==========

Analysis Begun

Logged In Analyst: hg3 **Technique: AA FIMS-MHS**
Spectrometer Model: FIMS-100, S/N B050-9550 **Autosampler Model: AS-93plus**

Sample Information File: C:\data-FIMS3\Sample Information\112214CVAA3 W.sif
Batch ID: 572
Results Data Set: 112214CVAA3 W
Results Library: C:\data-FIMS3\Results\Results.mdb

==========

Sequence No.: 1 **Autosampler Location: 156**
Sample ID: ICVLL 14K14700 **Date Collected: 11/22/2014 8:54:10 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**
User canceled analysis.

==========

Analysis Begun

Logged In Analyst: hg3 **Technique: AA FIMS-MHS**
Spectrometer Model: FIMS-100, S/N B050-9550 **Autosampler Model: AS-93plus**

Sample Information File: C:\data-FIMS3\Sample Information\112214CVAA3 W.sif
Batch ID: 572
Results Data Set: 112214CVAA3 W
Results Library: C:\data-FIMS3\Results\Results.mdb

==========

Sequence No.: 117 **Autosampler Location: 110**
Sample ID: SD WG756120 L734983-01 **Date Collected: 11/22/2014 8:54:32 PM**
Analyst: 572 **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol: 30 mL**
Dilution: 5X **Sample Prep Vol: 30 mL**

Replicate Data: SD WG756120 L734983-01

Repl #	SampleConc mg/L	StndConc mg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.00007	0.00001	0.0000	0.0004	0.0001	20:55:30	Yes
2	0.00007	0.00001	-0.0000	0.0003	0.0001	20:56:07	Yes
3	0.00007	0.00001	0.0000	-0.0000	0.0001	20:56:43	Yes
Mean:	0.00007	0.00001	0.0000				
SD:	0.00000	0.00000	0.0000				
%RSD:	5.114	5.114	178.29				

==========

Sequence No.: 118 **Autosampler Location: 111**
Sample ID: L734635-01 WG756120 **Date Collected: 11/22/2014 8:57:09 PM**
Analyst: 572 **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol: 15 mL**
Dilution: **Sample Prep Vol: 30 mL**

Replicate Data: L734635-01 WG756120

Repl #	SampleConc mg/L	StndConc mg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.00404	0.00202	0.0310	0.2552	0.0311	20:58:07	Yes
2	0.00402	0.00201	0.0309	0.2519	0.0310	20:58:44	Yes
3	0.00403	0.00201	0.0309	0.2512	0.0310	20:59:21	Yes
Mean:	0.00403	0.00201	0.0310				
SD:	0.00001	0.00000	0.0001				
%RSD:	0.2045	0.2045	0.21				

==========

Sequence No.: 119 **Autosampler Location: 112**
Sample ID: L734639-01 WG756120 **Date Collected: 11/22/2014 8:59:46 PM**
Analyst: 572 **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol: 15 mL**

Dilution: **Sample Prep Vol: 30 mL**

Replicate Data: L734639-01 WG756120

Repl #	SampleConc mg/L	StndConc mg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.00010	0.00005	0.0005	0.0051	0.0006	21:00:45	Yes
2	0.00011	0.00005	0.0006	0.0067	0.0007	21:01:21	Yes
3	0.00010	0.00005	0.0006	0.0057	0.0007	21:01:58	Yes
Mean:	0.00010	0.00005	0.0006				
SD:	0.00001	0.00000	0.0000				
%RSD:	6.237	6.237	8.47				

==========

Sequence No.: 120 **Autosampler Location: 113**
Sample ID: L734667-04 WG756120 **Date Collected: 11/22/2014 9:02:23 PM**
Analyst: 572 **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol: 30 mL**
Dilution: **Sample Prep Vol: 30 mL**

Replicate Data: L734667-04 WG756120

Repl #	SampleConc mg/L	StndConc mg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.00005	0.00005	0.0005	0.0044	0.0006	21:03:21	Yes
2	0.00005	0.00005	0.0005	0.0040	0.0006	21:03:58	Yes
3	0.00005	0.00005	0.0006	0.0059	0.0007	21:04:34	Yes
Mean:	0.00005	0.00005	0.0006				
SD:	0.00000	0.00000	0.0001				
%RSD:	9.109	9.109	12.46				

==========

Sequence No.: 121 **Autosampler Location: 114**
Sample ID: L734717-01 WG756120 **Date Collected: 11/22/2014 9:05:00 PM**
Analyst: 572 **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol: 30 mL**
Dilution: **Sample Prep Vol: 30 mL**

Replicate Data: L734717-01 WG756120

Repl #	SampleConc mg/L	StndConc mg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.00001	0.00001	0.0000	-0.0003	0.0001	21:05:58	Yes
2	0.00002	0.00002	0.0001	0.0018	0.0002	21:06:35	Yes
3	0.00002	0.00002	0.0002	0.0025	0.0002	21:07:11	Yes
Mean:	0.00002	0.00002	0.0001				
SD:	0.00001	0.00001	0.0001				
%RSD:	26.15	26.15	78.35				

==========

Sequence No.: 122 **Autosampler Location: 115**
Sample ID: L734810-03 WG756120 **Date Collected: 11/22/2014 9:07:36 PM**
Analyst: 572 **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol: 30 mL**
Dilution: **Sample Prep Vol: 30 mL**

Replicate Data: L734810-03 WG756120

Repl #	SampleConc mg/L	StndConc mg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.00003	0.00003	0.0002	0.0030	0.0003	21:08:34	Yes
2	0.00002	0.00002	0.0002	0.0017	0.0003	21:09:10	Yes
3	0.00003	0.00003	0.0002	0.0022	0.0003	21:09:47	Yes
Mean:	0.00003	0.00003	0.0002				
SD:	0.00000	0.00000	0.0000				
%RSD:	6.715	6.715	13.72				

==========

Sequence No.: 123 **Autosampler Location: 116**
Sample ID: L734810-05 WG756120 **Date Collected: 11/22/2014 9:10:12 PM**
Analyst: 572 **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol: 30 mL**

Dilution: **Sample Prep Vol: 30 mL**

Replicate Data: L734810-05 WG756120

Repl #	SampleConc mg/L	StndConc mg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.00004	0.00004	0.0004	0.0052	0.0005	21:11:11	Yes
2	0.00003	0.00003	0.0003	0.0031	0.0004	21:11:47	Yes
3	0.00003	0.00003	0.0003	0.0027	0.0004	21:12:24	Yes
Mean:	0.00003	0.00003	0.0003				
SD:	0.00000	0.00000	0.0001				
%RSD:	11.31	11.31	18.86				

==========

Sequence No.: 124 **Autosampler Location: 117**
Sample ID: L734810-07 WG756120 **Date Collected: 11/22/2014 9:12:48 PM**
Analyst: 572 **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol: 30 mL**
Dilution: **Sample Prep Vol: 30 mL**

Replicate Data: L734810-07 WG756120

Repl #	SampleConc mg/L	StndConc mg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.00005	0.00005	0.0006	0.0064	0.0007	21:13:47	Yes
2	0.00005	0.00005	0.0006	0.0055	0.0007	21:14:24	Yes
3	0.00004	0.00004	0.0005	0.0049	0.0006	21:15:00	Yes
Mean:	0.00005	0.00005	0.0005				
SD:	0.00000	0.00000	0.0001				
%RSD:	7.960	7.960	11.00				

==========

Sequence No.: 125 **Autosampler Location: 8**
Sample ID: CCV 14K07346 **Date Collected: 11/22/2014 9:15:25 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: CCV 14K07346

Repl #	SampleConc mg/L	StndConc mg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.00249	0.00249	0.0384	0.3189	0.0384	21:16:22	Yes
2	0.00245	0.00245	0.0377	0.3117	0.0378	21:16:59	Yes
3	0.00247	0.00247	0.0380	0.3122	0.0381	21:17:35	Yes
Mean:	0.00247	0.00247	0.0380				
SD:	0.00002	0.00002	0.0003				
%RSD:	0.8161	0.8161	0.82				

QC value within limits for Hg 253.7 Recovery = 98.87%
All analyte(s) passed QC.

==========

Sequence No.: 126 **Autosampler Location: 1**
Sample ID: CCB **Date Collected: 11/22/2014 9:17:59 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: CCB

Repl #	SampleConc mg/L	StndConc mg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.00002	0.00002	0.0000	0.0004	0.0001	21:18:55	Yes
2	0.00001	0.00001	-0.0001	-0.0008	-0.0000	21:19:31	Yes
3	0.00002	0.00002	0.0001	0.0010	0.0002	21:20:08	Yes
Mean:	0.00001	0.00001	0.0000				
SD:	0.00001	0.00001	0.0001				
%RSD:	39.99	39.99	>999.9%				

QC value within limits for Hg 253.7 Recovery = Not calculated
All analyte(s) passed QC.

==========

Sequence No.: 127
Sample ID: L734810-09 WG756120
Analyst: 572
Initial Sample Wt:
Dilution:
Autosampler Location: 118
Date Collected: 11/22/2014 9:20:32 PM
Data Type: Original
Initial Sample Vol: 30 mL
Sample Prep Vol: 30 mL

Replicate Data: L734810-09 WG756120

Repl #	SampleConc mg/L	StndConc mg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.00006	0.00006	0.0007	0.0066	0.0007	21:21:30	Yes
2	0.00006	0.00006	0.0006	0.0056	0.0007	21:22:06	Yes
3	0.00005	0.00005	0.0006	0.0050	0.0006	21:22:43	Yes
Mean:	0.00005	0.00005	0.0006				
SD:	0.00000	0.00000	0.0001				
%RSD:	7.161	7.161	9.55				

Sequence No.: 128
Sample ID: L734905-01 WG756120
Analyst: 572
Initial Sample Wt:
Dilution:
Autosampler Location: 119
Date Collected: 11/22/2014 9:23:08 PM
Data Type: Original
Initial Sample Vol: 30 mL
Sample Prep Vol: 30 mL

Replicate Data: L734905-01 WG756120

Repl #	SampleConc mg/L	StndConc mg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.00001	0.00001	0.0000	0.0009	0.0001	21:24:06	Yes
2	0.00001	0.00001	0.0000	0.0010	0.0001	21:24:42	Yes
3	0.00001	0.00001	-0.0000	-0.0005	0.0001	21:25:19	Yes
Mean:	0.00001	0.00001	0.0000				
SD:	0.00000	0.00000	0.0000				
%RSD:	14.87	14.87	>999.9%				

Sequence No.: 129
Sample ID: L734905-02 WG756120
Analyst: 572
Initial Sample Wt:
Dilution:
Autosampler Location: 120
Date Collected: 11/22/2014 9:25:44 PM
Data Type: Original
Initial Sample Vol: 30 mL
Sample Prep Vol: 30 mL

Replicate Data: L734905-02 WG756120

Repl #	SampleConc mg/L	StndConc mg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.00002	0.00002	0.0000	0.0008	0.0001	21:26:43	Yes
2	0.00001	0.00001	-0.0001	-0.0006	0.0000	21:27:19	Yes
3	0.00001	0.00001	-0.0000	-0.0006	0.0001	21:27:55	Yes
Mean:	0.00001	0.00001	-0.0000				
SD:	0.00000	0.00000	0.0001				
%RSD:	26.84	26.84	385.81				

Sequence No.: 130
Sample ID: L734983-02 WG756120
Analyst: 572
Initial Sample Wt:
Dilution:
Autosampler Location: 121
Date Collected: 11/22/2014 9:28:21 PM
Data Type: Original
Initial Sample Vol: 30 mL
Sample Prep Vol: 30 mL

Replicate Data: L734983-02 WG756120

Repl #	SampleConc mg/L	StndConc mg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.00002	0.00002	0.0001	0.0020	0.0002	21:29:19	Yes
2	0.00003	0.00003	0.0002	0.0030	0.0003	21:29:56	Yes
3	0.00002	0.00002	0.0001	0.0017	0.0002	21:30:32	Yes
Mean:	0.00002	0.00002	0.0001				
SD:	0.00000	0.00000	0.0000				
%RSD:	13.83	13.83	35.18				

Sequence No.: 131 **Autosampler Location: 122**
Sample ID: L734983-03 WG756120 **Date Collected: 11/22/2014 9:30:57 PM**
Analyst: 572 **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol: 30 mL**
Dilution: **Sample Prep Vol: 30 mL**

Replicate Data: L734983-03 WG756120

Repl #	SampleConc mg/L	StndConc mg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.00003	0.00003	0.0003	0.0030	0.0004	21:31:56	Yes
2	0.00002	0.00002	0.0001	0.0014	0.0002	21:32:33	Yes
3	0.00003	0.00003	0.0002	0.0022	0.0003	21:33:09	Yes
Mean:	0.00003	0.00003	0.0002				
SD:	0.00001	0.00001	0.0001				
%RSD:	20.53	20.53	40.92				

==========

Sequence No.: 132 **Autosampler Location: 123**
Sample ID: L735172-02 WG756120 **Date Collected: 11/22/2014 9:33:35 PM**
Analyst: 572 **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol: 30 mL**
Dilution: **Sample Prep Vol: 30 mL**

Replicate Data: L735172-02 WG756120

Repl #	SampleConc mg/L	StndConc mg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.00002	0.00002	0.0001	0.0022	0.0002	21:34:33	Yes
2	0.00001	0.00001	-0.0000	-0.0002	0.0001	21:35:10	Yes
3	0.00001	0.00001	0.0000	0.0004	0.0001	21:35:46	Yes
Mean:	0.00002	0.00002	0.0000				
SD:	0.00001	0.00001	0.0001				
%RSD:	31.90	31.90	182.65				

==========

Sequence No.: 133 **Autosampler Location: 124**
Sample ID: L735181-02 WG756120 **Date Collected: 11/22/2014 9:36:12 PM**
Analyst: 572 **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol: 30 mL**
Dilution: **Sample Prep Vol: 30 mL**

Replicate Data: L735181-02 WG756120

Repl #	SampleConc mg/L	StndConc mg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.00003	0.00003	0.0003	0.0032	0.0004	21:37:10	Yes
2	0.00002	0.00002	0.0002	0.0016	0.0002	21:37:47	Yes
3	0.00002	0.00002	0.0002	0.0019	0.0003	21:38:23	Yes
Mean:	0.00003	0.00003	0.0002				
SD:	0.00000	0.00000	0.0001				
%RSD:	14.14	14.14	29.02				

==========

Sequence No.: 134 **Autosampler Location: 125**
Sample ID: L735181-05 WG756120 **Date Collected: 11/22/2014 9:38:49 PM**
Analyst: 572 **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol: 30 mL**
Dilution: **Sample Prep Vol: 30 mL**

Replicate Data: L735181-05 WG756120

Repl #	SampleConc mg/L	StndConc mg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.00002	0.00002	0.0001	0.0005	0.0002	21:39:47	Yes
2	0.00004	0.00004	0.0004	0.0039	0.0005	21:40:24	Yes
3	0.00003	0.00003	0.0003	0.0034	0.0004	21:41:00	Yes
Mean:	0.00003	0.00003	0.0003				
SD:	0.00001	0.00001	0.0001				
%RSD:	31.60	31.60	56.87				

==========

Sequence No.: 135 **Autosampler Location: 126**
Sample ID: L735181-07 WG756120 **Date Collected: 11/22/2014 9:41:26 PM**
Analyst: 572 **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol: 30 mL**
Dilution: **Sample Prep Vol: 30 mL**

Replicate Data: L735181-07 WG756120

Repl #	SampleConc mg/L	StndConc mg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.00004	0.00004	0.0004	0.0038	0.0004	21:42:25	Yes
2	0.00003	0.00003	0.0002	0.0024	0.0003	21:43:01	Yes
3	0.00003	0.00003	0.0003	0.0039	0.0004	21:43:38	Yes
Mean:	0.00003	0.00003	0.0003				
SD:	0.00000	0.00000	0.0001				
%RSD:	14.19	14.19	24.62				

==========

Sequence No.: 136 **Autosampler Location: 127**
Sample ID: INSTBLK WG756120 **Date Collected: 11/22/2014 9:44:03 PM**
Analyst: 572 **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol: 30 mL**
Dilution: **Sample Prep Vol: 30 mL**

Replicate Data: INSTBLK WG756120

Repl #	SampleConc mg/L	StndConc mg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.00001	0.00001	-0.0000	-0.0008	0.0001	21:45:02	Yes
2	0.00001	0.00001	-0.0000	-0.0001	0.0001	21:45:38	Yes
3	0.00001	0.00001	-0.0001	-0.0005	0.0000	21:46:15	Yes
Mean:	0.00001	0.00001	-0.0000				
SD:	0.00000	0.00000	0.0000				
%RSD:	9.143	9.143	43.58				

==========

Sequence No.: 137 **Autosampler Location: 128**
Sample ID: L734936-03 WG756005 **Date Collected: 11/22/2014 9:46:40 PM**
Analyst: 572 **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol: 30 mL**
Dilution: 2X **Sample Prep Vol: 30 mL**

Replicate Data: L734936-03 WG756005

Repl #	SampleConc mg/L	StndConc mg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.00691	0.00346	0.0532	0.4194	0.0533	21:47:39	Yes
2	0.00661	0.00331	0.0509	0.3989	0.0510	21:48:15	Yes
3	0.00661	0.00331	0.0509	0.3982	0.0510	21:48:51	Yes
Mean:	0.00671	0.00336	0.0517				
SD:	0.00017	0.00009	0.0013				
%RSD:	2.566	2.566	2.58				

==========

Sequence No.: 138 **Autosampler Location: 3**
Sample ID: CCVLL 14K20068 **Date Collected: 11/22/2014 9:49:17 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: CCVLL 14K20068

Repl #	SampleConc mg/L	StndConc mg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.00020	0.00020	0.0029	0.0240	0.0030	21:50:14	Yes
2	0.00021	0.00021	0.0030	0.0262	0.0031	21:50:51	Yes
3	0.00020	0.00020	0.0028	0.0244	0.0029	21:51:27	Yes
Mean:	0.00020	0.00020	0.0029				
SD:	0.00001	0.00001	0.0001				
%RSD:	3.328	3.328	3.56				

QC value within limits for Hg 253.7 Recovery = 101.12%
All analyte(s) passed QC.

==========

Sequence No.: 139 **Autosampler Location: 8**
Sample ID: CCV 14K07346 **Date Collected: 11/22/2014 9:51:52 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: CCV 14K07346

Repl #	SampleConc mg/L	StndConc mg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.00249	0.00249	0.0383	0.3196	0.0384	21:52:49	Yes
2	0.00243	0.00243	0.0373	0.3111	0.0374	21:53:25	Yes
3	0.00241	0.00241	0.0370	0.3072	0.0371	21:54:01	Yes
Mean:	0.00244	0.00244	0.0375				
SD:	0.00004	0.00004	0.0006				
%RSD:	1.700	1.700	1.71				

QC value within limits for Hg 253.7 Recovery = 97.65%
All analyte(s) passed QC.

==========

Sequence No.: 140 **Autosampler Location: 1**
Sample ID: CCB **Date Collected: 11/22/2014 9:54:25 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: CCB

Repl #	SampleConc mg/L	StndConc mg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.00001	0.00001	0.0000	0.0006	0.0001	21:55:22	Yes
2	0.00001	0.00001	-0.0001	-0.0011	-0.0000	21:55:58	Yes
3	0.00002	0.00002	0.0000	0.0002	0.0001	21:56:34	Yes
Mean:	0.00001	0.00001	-0.0000				
SD:	0.00000	0.00000	0.0001				
%RSD:	37.73	37.73	390.25				

QC value within limits for Hg 253.7 Recovery = Not calculated
All analyte(s) passed QC.

Analytical Sequence
Method: Hg Water PPM-TEST

Seq.	Loc.	ID	Status
1	156	ICVLL 14K14700	
2	157	ICV 14K07344	
3	1	ICB	
4	9	BLANK WG755978	
5	10	LCS WG755978	
6	11	LCSD WG755978	
7	12	L734377-01 WG755978	
8	13	MS WG755978 L734377-01	
9	14	MSD WG755978 L734377-01	
10	15	SD WG755978 L734377-01	
11	16	L734385-08 WG755978	
12	17	L734389-02 WG755978	
13	18	L734418-01 WG755978	
14	19	L734573-01 WG755978	
15	20	L734573-02 WG755978	
16	21	L734573-03 WG755978	
17	22	L734573-04 WG755978	
18	23	L734573-05 WG755978	
19	24	L734624-01 WG755978	
20	8	CCV 14K07346	
21	1	CCB	
22	25	L734651-02 WG755978	
23	26	INSTBLK WG755978	
24	27	BLANK WG756005	
25	28	LCS WG756005	
26	29	LCSD WG756005	
27	30	L734644-01 WG756005	
28	31	MS WG756005 L734644-01	

29	32	MSD WG756005 L734644-01
30	33	SD WG756005 L734644-01
31	34	L734644-02 WG756005
32	35	L734644-04 WG756005
33	36	L734644-05 WG756005
34	37	L734644-08 WG756005
35	38	L734644-10 WG756005
36	39	L734644-11 WG756005
37	40	L734707-01 WG756005
38	41	L734707-02 WG756005
39	8	CCV 14K07346
40	1	CCB
41	42	L734707-03 WG756005
42	43	L734707-04 WG756005
43	44	L734707-05 WG756005
44	45	L734707-06 WG756005
45	46	L734891-01 WG756005
46	47	L734936-03 WG756005
47	48	L734940-01 WG756005
48	49	L734940-02 WG756005
49	50	INSTBLK WG756005
50	51	BLANK WG755988
51	52	LCS WG755988
52	53	LCSD WG755988
53	54	L734771-01 WG755988
54	55	MS WG755988 L734771-01
55	56	MSD WG755988 L734771-01
56	57	SD WG755988 L734771-01
57	58	L734772-01 WG755988
58	8	CCV 14K07346
59	1	CCB
60	59	L734777-01 WG755988
61	60	L734874-01 WG755988
62	61	L734921-01 WG755988
63	62	L734921-03 WG755988
64	63	L734938-01 WG755988
65	64	L734939-01 WG755988
66	65	L734948-01 WG755988
67	66	L734948-03 WG755988
68	67	INSTBLK WG755988
69	8	CCV 14K07346
70	1	CCB
71	68	BLANK WG756153
72	69	LCS WG756153
73	70	LCSD WG756153
74	71	L735015-01 WG756153
75	72	MS WG756153 L735015-01
76	73	MSD WG756153 L735015-01
77	74	SD WG756153 L735015-01
78	75	L734966-01 WG756153
79	76	L735015-02 WG756153
80	77	L735015-03 WG756153
81	78	L735015-04 WG756153
82	79	L735015-05 WG756153
83	80	L735015-06 WG756153
84	81	L735015-07 WG756153
85	82	L735015-08 WG756153
86	83	L735015-09 WG756153
87	8	CCV 14K07346
88	1	CCB
89	84	L735015-10 WG756153
90	85	L735015-11 WG756153
91	86	L735015-12 WG756153
92	87	L735015-13 WG756153
93	88	L735015-14 WG756153
94	89	INSTBLK WG756153
95	90	BLANK WG756299
96	91	LCS WG756299
97	92	LCSD WG756299
98	93	L734683-01 WG756299
99	94	MS WG756299 L734683-01
100	95	MSD WG756299 L734683-01

101	96	SD WG756299 L734683-01	
102	97	L734421-01 WG756299	
103	98	L734679-01 WG756299	
104	99	L734683-02 WG756299	
105	100	L734687-01 WG756299	
106	8	CCV 14K07346	
107	1	CCB	
108	101	L734709-02 WG756299	
109	102	L734793-03 WG756299	
110	103	INSTBLK WG756299	
111	104	BLANK WG756120	
112	105	LCS WG756120	
113	106	LCSD WG756120	
114	107	L734983-01 WG756120	
115	108	MS WG756120 L734983-01	
116	109	MSD WG756120 L734983-01	
117	110	SD WG756120 L734983-01	Analyzed
118	111	L734635-01 WG756120	Analyzed
119	112	L734639-01 WG756120	Analyzed
120	113	L734667-04 WG756120	Analyzed
121	114	L734717-01 WG756120	Analyzed
122	115	L734810-03 WG756120	Analyzed
123	116	L734810-05 WG756120	Analyzed
124	117	L734810-07 WG756120	Analyzed
125	8	CCV 14K07346	QC Passed
126	1	CCB	QC Passed
127	118	L734810-09 WG756120	Analyzed
128	119	L734905-01 WG756120	Analyzed
129	120	L734905-02 WG756120	Analyzed
130	121	L734983-02 WG756120	Analyzed
131	122	L734983-03 WG756120	Analyzed
132	123	L735172-02 WG756120	Analyzed
133	124	L735181-02 WG756120	Analyzed
134	125	L735181-05 WG756120	Analyzed
135	126	L735181-07 WG756120	Analyzed
136	127	INSTBLK WG756120	Analyzed
137	128	L734936-03 WG756005	Analyzed
138	3	CCVLL 14K20068	QC Passed
139	8	CCV 14K07346	QC Passed
140	1	CCB	QC Passed

Laboratory Bench Sheet

Printed:11/24/2014 07:23

Workgroup:	WG755986
Balance Name:	TCLPBAL1
Test:	Mercury
Method:	7470A
Prep Analyst:	572
Prep Date:	112214

Calibration Standards

0.1 ppb	14K20068
0.2ppb	14K20068
0.4 ppb	14K20068
1.0 ppb	14K20068
2.0 ppb	14K20068
5.0 ppb	14K07346

Hot Block

Name:MPA

Temp On:	94 deg C
Temp Off:	98 deg C
Time On:	1810
Time Off:	2010

QC Standards

ICV:	14K07344
ICV Low Level:	14K20068
CCV:	14K07346
CCV Low Level:	14K20068
LCS:	14K07344
MS/MSD:	14K07346

Reagent Standards

HNO3:	14K18881
HCl:	14J02360
KMNO4:	14K18955
K2S2O8:	14J29857
NaCl:	13J04016
H8N2O6S:	14K13670
SnCl:	14I09234
H2SO4:	14K06266
SiO2:	
Aqua Regia:	

Comments:

Worksheet ID:369948

Laboratory Bench Sheet

Printed:11/24/2014 07:23

Workgroup:	WG756309
Balance Name:	TCLPBAL1
Test:	Mercury
Method:	7470A
Prep Analyst:	572
Prep Date:	112214

Calibration Standards

0.1 ppb	14K20068
0.2ppb	14K20068
0.4 ppb	14K20068
1.0 ppb	14K20068
2.0 ppb	14K20068
5.0 ppb	14K07346

Hot Block

Name:MPB

Temp On:	93 deg C
Temp Off:	96 deg C
Time On:	1810
Time Off:	2010

QC Standards

ICV:	14K07344
ICV Low Level:	14K20068
CCV:	14K07346
CCV Low Level:	14K20068
LCS:	14K07344
MS/MSD:	14K07346

Reagent Standards

HNO3:	14K18881
HCl:	14J02360
KMNO4:	14K18955
K2S2O8:	14J29857
NaCl:	13J04016
H8N2O6S:	14K13670
SnCl:	14I09234
H2SO4:	14K06266
SiO2:	
Aqua Regia:	

Comments:

Worksheet ID:369948

Laboratory Bench Sheet

Printed:11/24/2014 07:23

Workgroup:	WG756307
Balance Name:	TCLPBAL1
Test:	Mercury
Method:	7470A
Prep Analyst:	572
Prep Date:	112214

Calibration Standards

0.1 ppb	14K20068
0.2ppb	14K20068
0.4 ppb	14K20068
1.0 ppb	14K20068
2.0 ppb	14K20068
5.0 ppb	14K07346

Hot Block

Name:MPB

Temp On:	93 deg C
Temp Off:	96 deg C
Time On:	1810
Time Off:	2010

QC Standards

ICV:	14K07344
ICV Low Level:	14K20068
CCV:	14K07346
CCV Low Level:	14K20068
LCS:	14K07344
MS/MSD:	14K07346

Reagent Standards

HNO3:	14K18881
HCl:	14J02360
KMNO4:	14K18955
K2S2O8:	14J29857
NaCl:	13J04016
H8N2O6S:	14K13670
SnCl:	14I09234
H2SO4:	14K06266
SiO2:	
Aqua Regia:	

Comments:

Worksheet ID:369948

Laboratory Bench Sheet

Printed:11/24/2014 07:23

Workgroup:	WG756319
Balance Name:	TCLPBAL1
Test:	Mercury
Method:	7470A
Prep Analyst:	572
Prep Date:	112214

Calibration Standards

0.1 ppb	14K20068
0.2ppb	14K20068
0.4 ppb	14K20068
1.0 ppb	14K20068
2.0 ppb	14K20068
5.0 ppb	14K07346

Hot Block

Name:MPA

Temp On:	95 deg C
Temp Off:	96 deg C
Time On:	2030
Time Off:	2230

QC Standards

ICV:	14K07344
ICV Low Level:	14K20068
CCV:	14K07346
CCV Low Level:	14K20068
LCS:	14K07344
MS/MSD:	14K07346

Reagent Standards

HNO3:	14K18881
HCl:	14J02360
KMNO4:	14K18955
K2S2O8:	14J29857
NaCl:	13J04016
H8N2O6S:	14K13670
SnCl:	14I09234
H2SO4:	14K06266
SiO2:	
Aqua Regia:	

Comments:

Worksheet ID:369948

ENVIRONMENTAL SCIENCE CORP.

Environmental Science Corp.

Work Group Report (wk02)

24-NOV-14 02:53 PM

Work Group: WG755986

Department: 5 Metals

Operator: 572

Created: 21-NOV-14

Due:

Sample	Container	Account Name	Product	Matrix	Status	Collected	Due Date	R Cont. Type	
L734622-01	S16047663	Peer Engineering	HGD	GW	CAPT	19-NOV-14	25-NOV-14	R4	500mlHDPE-NoPre
L734789-01		Terracon - Springfield, MO	HGD	GW	CAPT	19-NOV-14	28-NOV-14	R5	
L734789-02		Terracon - Springfield, MO	HGD	GW	CAPT	19-NOV-14	28-NOV-14	R5	
L734789-03		Terracon - Springfield, MO	HGD	GW	CAPT	19-NOV-14	28-NOV-14	R5	
L734789-04		Terracon - Springfield, MO	HGD	GW	CAPT	19-NOV-14	28-NOV-14	R5	
L734789-05		Terracon - Springfield, MO	HGD	GW	CAPT	19-NOV-14	28-NOV-14	R5	
L734789-06		Terracon - Springfield, MO	HGD	GW	CAPT	19-NOV-14	28-NOV-14	R5	
L734789-07		Terracon - Springfield, MO	HGD	GW	CAPT	19-NOV-14	28-NOV-14	R5	
L734789-08		Terracon - Springfield, MO	HGD	GW	CAPT	19-NOV-14	28-NOV-14	R5	
L734810-02	17695356	URS Corporation - Tucson AZ - 10	HGD	GW	CAPT	19-NOV-14	28-NOV-14	R5	500mlHDPE-HNO3
L734810-04	17695425	URS Corporation - Tucson AZ - 10	HGD	GW	CAPT	19-NOV-14	28-NOV-14	R5	500mlHDPE-HNO3
L734810-06	17695436	URS Corporation - Tucson AZ - 10	HGD	GW	CAPT	19-NOV-14	28-NOV-14	R5	500mlHDPE-HNO3
L734810-08	17695447	URS Corporation - Tucson AZ - 10	HGD	GW	CAPT	19-NOV-14	28-NOV-14	R5	500mlHDPE-HNO3
L734941-01	17698845	Terracon - Port Allen, LA	HGD	GW	CAPT	20-NOV-14	01-DEC-14	R5	500mlHDPE-NoPre
L735084-05	S17654504	The EI Group, Inc.	HGD	GW	CAPT	20-NOV-14	25-NOV-14	R3	500mlHDPE-NoPre
L735084-06	S17654510	The EI Group, Inc.	HGD	GW	CAPT	20-NOV-14	25-NOV-14	R3	500mlHDPE-NoPre
L735084-07	S17654516	The EI Group, Inc.	HGD	GW	CAPT	20-NOV-14	25-NOV-14	R3	500mlHDPE-NoPre
L735181-03	17703346	URS Corporation - Tucson AZ - 10	HGD	GW	CAPT	19-NOV-14	01-DEC-14	R5	500mlHDPE-HNO3
L735181-04	17703347	URS Corporation - Tucson AZ - 10	HGD	GW	CAPT	19-NOV-14	01-DEC-14	R5	500mlHDPE-HNO3
L735181-06	17703364	URS Corporation - Tucson AZ - 10	HGD	GW	CAPT	19-NOV-14	01-DEC-14	R5	500mlHDPE-HNO3

Comments:

L734622-01	lab to filter and preserve dissolved metals
L734789-01	Ship-O-TSR
L734810-02	EDD/QC4/DOD - Diss Metals field-filtered and preserved. - JCR 11/20
L734810-04	EDD/QC4/DOD - Diss Metals field-filtered and preserved. - JCR 11/20

ENVIRONMENTAL SCIENCE CORP.

Environmental Science Corp.

Work Group Report (wk02)

24-NOV-14 02:53 PM

2 2

Work Group:	WG755986			**Created:**	21-NOV-14
Department:	5 Metals	**Operator:**	572	**Due:**	

Sample	Container	Account Name	Product	Matrix	Status	Collected	Due Date	R Cont. Type
L734810-06	EDD/QC4/DOD - Diss Metals field-filtered and preserved. - JCR 11/20							
L734810-08	EDD/QC4/DOD - Diss Metals field-filtered and preserved. - JCR 11/20							
L735181-03	Field Filtered. EDD/QC4/DOD							
L735181-04	Field Filtered. EDD/QC4/DOD							
L735181-06	Field Filtered. EDD/QC4/DOD							

ENVIRONMENTAL SCIENCE CORP.

Environmental Science Corp.

Work Group Report (wk02)

24-NOV-14 02:54 PM

Work Group: WG756309

Department: 5 Metals

Operator: 572

Created: 22-NOV-14

Due:

Sample	Container	Account Name	Product	Matrix	Status	Collected	Due Date	R Cont. Type	
L734977-01	S17557704	Terracon- Little Rock, AR	HG	GW	CAPT	20-NOV-14	01-DEC-14	R5	500mlHDPE-HNO3
L734982-01	17700218	GEOServices, LLC	HG	GW	CAPT	19-NOV-14	01-DEC-14	R5	500mlHDPE-HNO3
L734982-02	17700224	GEOServices, LLC	HG	GW	CAPT	19-NOV-14	01-DEC-14	R5	500mlHDPE-HNO3
L734982-03	17700230	GEOServices, LLC	HG	GW	CAPT	19-NOV-14	01-DEC-14	R5	500mlHDPE-HNO3
L734982-04	17700236	GEOServices, LLC	HG	GW	CAPT	19-NOV-14	01-DEC-14	R5	500mlHDPE-HNO3
L735052-01	17701770	Duncklee and Dunham	HG	GW	CAPT	17-NOV-14	01-DEC-14	D1	500mlHDPE-HNO3
L735052-02	17701776	Duncklee and Dunham	HG	GW	CAPT	17-NOV-14	01-DEC-14	D1	500mlHDPE-HNO3
L735052-03	17701782	Duncklee and Dunham	HG	GW	CAPT	17-NOV-14	01-DEC-14	D1	500mlHDPE-HNO3
L735094-01	S17573973	Civil & Environmental Consultants -	HG	GW	CAPT	19-NOV-14	01-DEC-14	R5	500mlHDPE-HNO3
L735094-02	S17573981	Civil & Environmental Consultants -	HG	GW	HERE	20-NOV-14	01-DEC-14	R5	500mlHDPE-HNO3
L735094-03	S17573989	Civil & Environmental Consultants -	HG	GW	CAPT	20-NOV-14	01-DEC-14	R5	500mlHDPE-HNO3
L735094-04	S17573997	Civil & Environmental Consultants -	HG	GW	HERE	20-NOV-14	01-DEC-14	R5	500mlHDPE-HNO3
L735094-05	S17574005	Civil & Environmental Consultants -	HG	GW	CAPT	20-NOV-14	01-DEC-14	R5	500mlHDPE-HNO3
L735094-06	S17574013	Civil & Environmental Consultants -	HG	GW	CAPT	20-NOV-14	01-DEC-14	R5	500mlHDPE-HNO3
L735094-10	S17574036	Civil & Environmental Consultants -	HG	GW	CAPT	19-NOV-14	01-DEC-14	R5	500mlHDPE-HNO3
L735094-11	S17574044	Civil & Environmental Consultants -	HG	GW	CAPT	20-NOV-14	01-DEC-14	R5	500mlHDPE-HNO3
L735094-12	S17574052	Civil & Environmental Consultants -	HG	GW	CAPT	19-NOV-14	01-DEC-14	R5	500mlHDPE-HNO3
L735094-13	S17574027	Civil & Environmental Consultants -	HG	GW	CAPT	19-NOV-14	01-DEC-14	R5	500mlHDPE-HNO3
L735243-01	S17294211	S&ME Inc. - Blountville TN	HG	GW	CAPT	20-NOV-14	01-DEC-14	R5	500mlHDPE-HNO3
L735243-02	S17294224	S&ME Inc. - Blountville TN	HG	GW	CAPT	20-NOV-14	01-DEC-14	R5	500mlHDPE-HNO3

Comments:

L735243-01	Parameter change 9/25/12 per AW , TM
L735243-02	Parameter change 9/25/12 per AW , TM

ENVIRONMENTAL SCIENCE CORP.

Environmental Science Corp.

Work Group Report (wk02)

24-NOV-14 02:54 PM

Work Group: WG756307

Department: 5 Metals

Operator: 572

Created: 22-NOV-14

Due:

Sample	Container	Account Name	Product	Matrix	Status	Collected	Due Date	R Cont. Type	
L734934-01	S17627339	SCS Aquaterra	HG	GW	CAPT	20-NOV-14	01-DEC-14	R5	500mlHDPE-HNO3
L734934-02	S17627369	SCS Aquaterra	HG	GW	CAPT	20-NOV-14	01-DEC-14	R5	500mlHDPE-HNO3
L734934-03	S17627346	SCS Aquaterra	HG	GW	CAPT	20-NOV-14	01-DEC-14	R5	500mlHDPE-HNO3
L734934-04	S17627342	SCS Aquaterra	HG	GW	CAPT	20-NOV-14	01-DEC-14	R5	500mlHDPE-HNO3
L734934-05	S17627343	SCS Aquaterra	HG	GW	CAPT	20-NOV-14	01-DEC-14	R5	500mlHDPE-HNO3
L734934-06	S17627344	SCS Aquaterra	HG	GW	CAPT	20-NOV-14	01-DEC-14	R5	500mlHDPE-HNO3
L734934-07	S17627357	SCS Aquaterra	HG	GW	CAPT	20-NOV-14	01-DEC-14	R5	500mlHDPE-HNO3
L734934-08	S17627358	SCS Aquaterra	HG	GW	CAPT	20-NOV-14	01-DEC-14	R5	500mlHDPE-HNO3
L734934-09	S17627372	SCS Aquaterra	HG	GW	CAPT	20-NOV-14	01-DEC-14	R5	500mlHDPE-HNO3
L734934-10	S17627373	SCS Aquaterra	HG	GW	CAPT	20-NOV-14	01-DEC-14	R5	500mlHDPE-HNO3
L734934-11	S17627375	SCS Aquaterra	HG	GW	CAPT	20-NOV-14	01-DEC-14	R5	500mlHDPE-HNO3
L734934-12	S17627376	SCS Aquaterra	HG	GW	CAPT	20-NOV-14	01-DEC-14	R5	500mlHDPE-HNO3
L734934-13	S17627377	SCS Aquaterra	HG	GW	CAPT	20-NOV-14	01-DEC-14	R5	500mlHDPE-HNO3
L734934-14	S17627248	SCS Aquaterra	HG	GW	CAPT	20-NOV-14	01-DEC-14	R5	500mlHDPE-HNO3
L734934-15	S17627251	SCS Aquaterra	HG	GW	CAPT	20-NOV-14	01-DEC-14	R5	500mlHDPE-HNO3
L734934-16	S17627254	SCS Aquaterra	HG	GW	CAPT	20-NOV-14	01-DEC-14	R5	500mlHDPE-HNO3
L734934-17	S17627257	SCS Aquaterra	HG	GW	CAPT	20-NOV-14	01-DEC-14	R5	500mlHDPE-HNO3
L734934-18	S17627260	SCS Aquaterra	HG	GW	CAPT	20-NOV-14	01-DEC-14	R5	500mlHDPE-HNO3
L734934-19	S17627263	SCS Aquaterra	HG	GW	CAPT	20-NOV-14	01-DEC-14	R5	500mlHDPE-HNO3
L734934-20	S17627266	SCS Aquaterra	HG	GW	CAPT	20-NOV-14	01-DEC-14	R5	500mlHDPE-HNO3

Comments:

L734934-06	MS/MSD
L734934-13	pH adjusted @ 3:52 pm on 11/21 669 BB

ENVIRONMENTAL SCIENCE CORP.

Environmental Science Corp.

Work Group Report (wk02)

24-NOV-14 02:56 PM

Work Group: WG756319

Department: 5 Metals

Operator: 572

Created: 22-NOV-14

Due:

Sample	Container	Account Name	Product	Matrix	Status	Collected	Due Date	R Cont. Type	
L735095-09	S17668301	S&ME Inc. - Knoxville	HG	GW	CAPT	20-NOV-14	01-DEC-14	R5	500mlHDPE-HNO3
L735095-10	S17668310	S&ME Inc. - Knoxville	HG	GW	CAPT	20-NOV-14	01-DEC-14	R5	500mlHDPE-HNO3
L735095-11	S17668319	S&ME Inc. - Knoxville	HG	GW	CAPT	20-NOV-14	01-DEC-14	R5	500mlHDPE-HNO3
L735095-12	S17668328	S&ME Inc. - Knoxville	HG	GW	CAPT	20-NOV-14	01-DEC-14	R5	500mlHDPE-HNO3
L735095-13	S17668337	S&ME Inc. - Knoxville	HG	GW	CAPT	20-NOV-14	01-DEC-14	R5	500mlHDPE-HNO3
L735095-14	S17668346	S&ME Inc. - Knoxville	HG	GW	CAPT	20-NOV-14	01-DEC-14	R5	500mlHDPE-HNO3
L735095-15	S17668355	S&ME Inc. - Knoxville	HG	GW	CAPT	20-NOV-14	01-DEC-14	R5	500mlHDPE-HNO3
L735160-01	S17557744	Terracon- Little Rock, AR	HG	GW	CAPT	20-NOV-14	01-DEC-14	R5	500mlHDPE-HNO3
L735160-02	S17557754	Terracon- Little Rock, AR	HG	GW	CAPT	20-NOV-14	01-DEC-14	R5	500mlHDPE-HNO3
L735160-03	S17557759	Terracon- Little Rock, AR	HG	GW	CAPT	20-NOV-14	01-DEC-14	R5	500mlHDPE-HNO3
L735160-04	S17557769	Terracon- Little Rock, AR	HG	GW	CAPT	20-NOV-14	01-DEC-14	R5	500mlHDPE-HNO3
L735160-05	S17557774	Terracon- Little Rock, AR	HG	GW	CAPT	20-NOV-14	01-DEC-14	R5	500mlHDPE-HNO3
L735160-06	S17557779	Terracon- Little Rock, AR	HG	GW	CAPT	20-NOV-14	01-DEC-14	R5	500mlHDPE-HNO3
L735200-01	17703635	House Engineering, LLC	HG	GW	CAPT	21-NOV-14	01-DEC-14	R5	500mlHDPE-HNO3
L735200-02	17703641	House Engineering, LLC	HG	GW	CAPT	21-NOV-14	01-DEC-14	R5	500mlHDPE-HNO3
L735200-03	17703647	House Engineering, LLC	HG	GW	CAPT	21-NOV-14	01-DEC-14	R5	500mlHDPE-HNO3
L735200-04	17703653	House Engineering, LLC	HG	GW	CAPT	21-NOV-14	01-DEC-14	R5	500mlHDPE-HNO3
L735200-05	17703659	House Engineering, LLC	HG	GW	CAPT	21-NOV-14	01-DEC-14	R5	500mlHDPE-HNO3
L735296-01	S17623600	Piedmont Geologic	HG	GW	CAPT	20-NOV-14	01-DEC-14	R5	500mlHDPE-HNO3

Comments:

L735095-09	8151 removed per Rick B 8/17/10
L735095-10	8151 removed per Rick B 8/17/10
L735095-11	8151 removed per Rick B 8/17/10
L735095-12	8151 removed per Rick B 8/17/10
L735095-13	8151 removed per Rick B 8/17/10
L735095-14	8151 removed per Rick B 8/17/10

ENVIRONMENTAL SCIENCE CORP.

Environmental Science Corp.

Work Group Report (wk02)

24-NOV-14 02:56 PM

2 2

Work Group:	WG756319			**Created:**	22-NOV-14
Department:	5 Metals	**Operator:**	572	**Due:**	

Sample	Container	Account Name	Product	Matrix	Status	Collected	Due Date	R Cont. Type

L735095-15	8151 removed per Rick B 8/17/10
L735200-01	Dissolved metals have been field filtered and preserved.
L735200-02	Dissolved metals have been field filtered and preserved.
L735200-03	Dissolved metals have been field filtered and preserved.

==========

Analysis Begun

Logged In Analyst: hg3 **Technique: AA FIMS-MHS**
Spectrometer Model: FIMS-100, S/N B050-9550 **Autosampler Model: AS-93plus**

Sample Information File: C:\data-FIMS3\Sample Information\112414CVAA3 W.sif
Batch ID: 628
Results Data Set: 112414CVAA3 W
Results Library: C:\data-FIMS3\Results\Results.mdb

==========

Method Loaded
Method Name: Hg Water PPM-TEST **Method Last Saved: 11/21/2014 1:05:15 PM**
Method Description: HgWater

Analyte	Calibration Equation	Wavelength
Hg 253.7	Lin, Calc Int	253.7

==========

Sequence No.: 1 **Autosampler Location: 1**
Sample ID: CALBLK **Date Collected: 11/24/2014 7:56:53 AM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: CALBLK

Repl #	SampleConc mg/L	StndConc mg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1		[0.00]	0.0001	0.0007	0.0001	07:57:52	Yes
2		[0.00]	0.0001	-0.0001	0.0001	07:58:28	Yes
3		[0.00]	0.0001	0.0001	0.0001	07:59:05	Yes
Mean:		[0.00]	0.0001				
SD:		0.00	0.0000				
%RSD:		0.00	11.57				

Auto-zero performed.

==========

Sequence No.: 2 **Autosampler Location: 2**
Sample ID: STD1 14K20068 **Date Collected: 11/24/2014 7:59:28 AM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: STD1 14K20068

Repl #	SampleConc mg/L	StndConc mg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1		[0.00010]	0.0011	0.0089	0.0012	08:00:25	Yes
2		[0.00010]	0.0012	0.0105	0.0014	08:01:01	Yes
3		[0.00010]	0.0015	0.0131	0.0016	08:01:38	Yes
Mean:		[0.00010]	0.0013				
SD:		0.00000	0.0002				
%RSD:		0.00000	14.32				

Standard number 1 applied. [0.00010]
Correlation Coef.: 1.000000 Slope: 12.56907 Intercept: 0.00000

==========

Sequence No.: 3 **Autosampler Location: 3**
Sample ID: STD2 14K20068 **Date Collected: 11/24/2014 8:02:01 AM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: STD2 14K20068

Repl #	SampleConc mg/L	StndConc mg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1		[0.00020]	0.0026	0.0213	0.0028	08:02:58	Yes
2		[0.00020]	0.0023	0.0194	0.0024	08:03:35	Yes

3	[0.00020]	0.0026	0.0220	0.0027	08:04:12	Yes
Mean:	[0.00020]	0.0025				
SD:	0.00000	0.0002				
%RSD:	0.00000	6.83				

Standard number 2 applied. [0.00020]
Correlation Coef.: 1.000000 Slope: 12.58341 Intercept: -0.00000

==========

Sequence No.: 4 **Autosampler Location: 4**
Sample ID: STD3 14K20068 **Date Collected: 11/24/2014 8:04:36 AM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: STD3 14K20068

Repl #	SampleConc mg/L	StndConc mg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1		[0.00040]	0.0054	0.0441	0.0055	08:05:33	Yes
2		[0.00040]	0.0052	0.0436	0.0053	08:06:10	Yes
3		[0.00040]	0.0051	0.0407	0.0052	08:06:47	Yes
Mean:		[0.00040]	0.0052				
SD:		0.00000	0.0001				
%RSD:		0.00000	2.61				

Standard number 3 applied. [0.00040]
Correlation Coef.: 0.999818 Slope: 13.04010 Intercept: -0.00004

==========

Sequence No.: 5 **Autosampler Location: 5**
Sample ID: STD4 14K20068 **Date Collected: 11/24/2014 8:07:11 AM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: STD4 14K20068

Repl #	SampleConc mg/L	StndConc mg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1		[0.00100]	0.0143	0.1170	0.0144	08:08:10	Yes
2		[0.00100]	0.0141	0.1138	0.0142	08:08:46	Yes
3		[0.00100]	0.0141	0.1145	0.0142	08:09:23	Yes
Mean:		[0.00100]	0.0141				
SD:		0.00000	0.0001				
%RSD:		0.00000	0.93				

Standard number 4 applied. [0.00100]
Correlation Coef.: 0.999416 Slope: 14.23173 Intercept: -0.00021

==========

Sequence No.: 6 **Autosampler Location: 6**
Sample ID: STD5 14K20068 **Date Collected: 11/24/2014 8:09:48 AM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: STD5 14K20068

Repl #	SampleConc mg/L	StndConc mg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1		[0.00200]	0.0274	0.2236	0.0276	08:10:44	Yes
2		[0.00200]	0.0269	0.2184	0.0270	08:11:21	Yes
3		[0.00200]	0.0268	0.2166	0.0269	08:11:58	Yes
Mean:		[0.00200]	0.0270				
SD:		0.00000	0.0003				
%RSD:		0.00000	1.29				

Standard number 5 applied. [0.00200]
Correlation Coef.: 0.999626 Slope: 13.66370 Intercept: -0.00006

==========

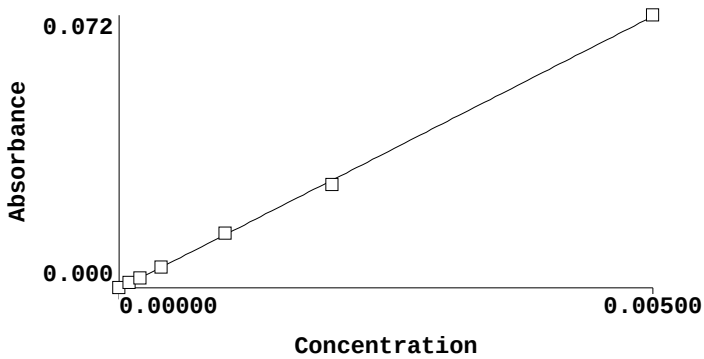
Sequence No.: 7 **Autosampler Location: 7**
Sample ID: STD6 14K07346 **Date Collected: 11/24/2014 8:12:21 AM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**

Dilution: **Sample Prep Vol:**

Replicate Data: STD6 14K07346

Repl #	SampleConc mg/L	StndConc mg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1		[0.00500]	0.0724	0.5936	0.0726	08:13:18	Yes
2		[0.00500]	0.0713	0.5837	0.0715	08:13:54	Yes
3		[0.00500]	0.0709	0.5794	0.0711	08:14:30	Yes
Mean:		[0.00500]	0.0716				
SD:		0.00000	0.0008				
%RSD:		0.00000	1.07				

Standard number 6 applied. [0.00500]
Correlation Coef.: 0.999769 Slope: 14.30615 Intercept: -0.00039



Calibration data for Hg 253.7 **Equation: Linear, Calculated Intercept**

ID	Mean Signal (Abs)	Entered Conc. mg/L	Calculated Conc. mg/L	Standard Deviation	%RSD
CALBLK	0.0000	0	0.00003	0.00	11.6
STD1 14K20068	0.0013	0.00010	0.00011	0.00	14.3
STD2 14K20068	0.0025	0.00020	0.00020	0.00	6.8
STD3 14K20068	0.0052	0.00040	0.00039	0.00	2.6
STD4 14K20068	0.0141	0.00100	0.00102	0.00	0.9
STD5 14K20068	0.0270	0.00200	0.00192	0.00	1.3
STD6 14K07346	0.0716	0.00500	0.00503	0.00	1.1

Correlation Coef.: 0.999769 Slope: 14.30615 Intercept: -0.00039

Analytical Sequence
Method: Hg Water PPM-TEST

Seq.	Loc.	ID	Status
1	1	CALBLK	Applied
2	2	STD1 14K20068	Applied
3	3	STD2 14K20068	Applied
4	4	STD3 14K20068	Applied
5	5	STD4 14K20068	Applied
6	6	STD5 14K20068	Applied
7	7	STD6 14K07346	Applied

==========

Analysis Begun

Logged In Analyst: hg3 **Technique: AA FIMS-MHS**
Spectrometer Model: FIMS-100, S/N B050-9550 **Autosampler Model: AS-93plus**

Sample Information File: C:\data-FIMS3\Sample Information\112414CVAA3 W.sif
Batch ID: 628
Results Data Set: 112414CVAA3 W
Results Library: C:\data-FIMS3\Results\Results.mdb

==========

Sequence No.: 1 **Autosampler Location: 156**
Sample ID: ICVLL 14K14700 **Date Collected: 11/24/2014 8:15:11 AM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: ICVLL 14K14700

Repl #	SampleConc mg/L	StndConc mg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.00021	0.00021	0.0027	0.0232	0.0028	08:16:10	Yes
2	0.00021	0.00021	0.0026	0.0221	0.0027	08:16:46	Yes
3	0.00020	0.00020	0.0025	0.0218	0.0026	08:17:23	Yes
Mean:	0.00021	0.00021	0.0026				
SD:	0.00001	0.00001	0.0001				
%RSD:	3.063	3.063	3.52				

QC value within limits for Hg 253.7 Recovery = 103.81%
All analyte(s) passed QC.

==========

Sequence No.: 2 **Autosampler Location: 157**
Sample ID: ICV 14K07344 **Date Collected: 11/24/2014 8:17:48 AM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: ICV 14K07344

Repl #	SampleConc mg/L	StndConc mg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.00286	0.00286	0.0406	0.3326	0.0407	08:18:47	Yes
2	0.00282	0.00282	0.0400	0.3272	0.0401	08:19:22	Yes
3	0.00283	0.00283	0.0401	0.3274	0.0402	08:19:59	Yes
Mean:	0.00284	0.00284	0.0402				
SD:	0.00002	0.00002	0.0003				
%RSD:	0.7767	0.7767	0.78				

QC value less than the lower limit for Hg 253.7 Recovery = 94.64%
QC Failed. Stop the analysis.

==========

Analysis Begun

Logged In Analyst: hg3 **Technique: AA FIMS-MHS**
Spectrometer Model: FIMS-100, S/N B050-9550 **Autosampler Model: AS-93plus**

Sample Information File: C:\data-FIMS3\Sample Information\112414CVAA3 W.sif
Batch ID: 628
Results Data Set: 112414CVAA3 W
Results Library: C:\data-FIMS3\Results\Results.mdb

==========

Sequence No.: 2 **Autosampler Location: 157**
Sample ID: ICV 14K07344 **Date Collected: 11/24/2014 8:21:04 AM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: ICV 14K07344

Repl #	SampleConc mg/L	StndConc mg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.00297	0.00297	0.0421	0.3481	0.0422	08:22:03	Yes
2	0.00294	0.00294	0.0417	0.3428	0.0418	08:22:39	Yes
3	0.00297	0.00297	0.0421	0.3473	0.0422	08:23:16	Yes
Mean:	0.00296	0.00296	0.0420				
SD:	0.00002	0.00002	0.0002				
%RSD:	0.5590	0.5590	0.56				

QC value within limits for Hg 253.7 Recovery = 98.67%
All analyte(s) passed QC.

==========

Sequence No.: 3 **Autosampler Location: 1**
Sample ID: ICB **Date Collected: 11/24/2014 8:23:42 AM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: ICB

Repl #	SampleConc mg/L	StndConc mg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.00004	0.00004	0.0001	0.0021	0.0003	08:24:38	Yes
2	0.00006	0.00006	0.0005	0.0072	0.0007	08:25:15	Yes
3	0.00010	0.00010	0.0010	0.0116	0.0011	08:25:52	Yes
Mean:	0.00007	0.00007	0.0006				
SD:	0.00003	0.00003	0.0004				
%RSD:	44.97	44.97	76.43				

QC value within limits for Hg 253.7 Recovery = Not calculated
All analyte(s) passed QC.

==========

Sequence No.: 4 **Autosampler Location: 9**
Sample ID: BLANK WG755986 **Date Collected: 11/24/2014 8:26:15 AM**
Analyst: 628 **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol: 30 mL**
Dilution: **Sample Prep Vol: 30 mL**

Replicate Data: BLANK WG755986

Repl #	SampleConc mg/L	StndConc mg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.00002	0.00002	-0.0001	-0.0000	0.0001	08:27:13	Yes
2	0.00003	0.00003	0.0000	0.0004	0.0001	08:27:49	Yes
3	0.00002	0.00002	-0.0001	0.0002	0.0001	08:28:26	Yes
Mean:	0.00002	0.00002	-0.0000				
SD:	0.00000	0.00000	0.0000				
%RSD:	10.81	10.81	109.34				

==========

Sequence No.: 5 **Autosampler Location: 10**
Sample ID: LCS WG755986 **Date Collected: 11/24/2014 8:28:50 AM**
Analyst: 628 **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol: 30 mL**
Dilution: **Sample Prep Vol: 30 mL**

Replicate Data: LCS WG755986

Repl #	SampleConc mg/L	StndConc mg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.00277	0.00277	0.0392	0.3182	0.0393	08:29:48	Yes
2	0.00283	0.00283	0.0401	0.3243	0.0402	08:30:24	Yes
3	0.00282	0.00282	0.0400	0.3235	0.0401	08:31:00	Yes
Mean:	0.00281	0.00281	0.0397				
SD:	0.00003	0.00003	0.0005				
%RSD:	1.205	1.205	1.22				

==========

Sequence No.: 6 **Autosampler Location: 11**
Sample ID: LCSD WG755986 **Date Collected: 11/24/2014 8:31:24 AM**
Analyst: 628 **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol: 30 mL**

Dilution: Sample Prep Vol: 30 mL

Replicate Data: LCSD WG755986

Repl #	SampleConc mg/L	StndConc mg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.00283	0.00283	0.0401	0.3281	0.0403	08:32:22	Yes
2	0.00280	0.00280	0.0396	0.3212	0.0398	08:32:58	Yes
3	0.00280	0.00280	0.0397	0.3225	0.0398	08:33:34	Yes
Mean:	0.00281	0.00281	0.0398				
SD:	0.00002	0.00002	0.0003				
%RSD:	0.7070	0.7070	0.71				

==========

Sequence No.: 7 Autosampler Location: 12
Sample ID: L735181-06 WG755986 Date Collected: 11/24/2014 8:33:59 AM
Analyst: 628 Data Type: Original
Initial Sample Wt: Initial Sample Vol: 30 mL
Dilution: Sample Prep Vol: 30 mL

Replicate Data: L735181-06 WG755986

Repl #	SampleConc mg/L	StndConc mg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.00003	0.00003	0.0001	0.0016	0.0002	08:34:57	Yes
2	0.00003	0.00003	-0.0000	-0.0003	0.0001	08:35:33	Yes
3	0.00003	0.00003	0.0001	0.0017	0.0002	08:36:10	Yes
Mean:	0.00003	0.00003	0.0001				
SD:	0.00000	0.00000	0.0001				
%RSD:	14.75	14.75	106.28				

==========

Sequence No.: 8 Autosampler Location: 13
Sample ID: MS WG755986 L735181-06 Date Collected: 11/24/2014 8:36:35 AM
Analyst: 628 Data Type: Original
Initial Sample Wt: Initial Sample Vol: 30 mL
Dilution: Sample Prep Vol: 30 mL

Replicate Data: MS WG755986 L735181-06

Repl #	SampleConc mg/L	StndConc mg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.00275	0.00275	0.0390	0.3241	0.0391	08:37:33	Yes
2	0.00274	0.00274	0.0389	0.3226	0.0390	08:38:09	Yes
3	0.00274	0.00274	0.0388	0.3202	0.0390	08:38:46	Yes
Mean:	0.00275	0.00275	0.0389				
SD:	0.00000	0.00000	0.0001				
%RSD:	0.1804	0.1804	0.18				

==========

Sequence No.: 9 Autosampler Location: 14
Sample ID: MSD WG755986 L735181-06 Date Collected: 11/24/2014 8:39:11 AM
Analyst: 628 Data Type: Original
Initial Sample Wt: Initial Sample Vol: 30 mL
Dilution: Sample Prep Vol: 30 mL

Replicate Data: MSD WG755986 L735181-06

Repl #	SampleConc mg/L	StndConc mg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.00289	0.00289	0.0409	0.3371	0.0411	08:40:08	Yes
2	0.00283	0.00283	0.0401	0.3301	0.0403	08:40:44	Yes
3	0.00286	0.00286	0.0406	0.3335	0.0407	08:41:20	Yes
Mean:	0.00286	0.00286	0.0406				
SD:	0.00003	0.00003	0.0004				
%RSD:	0.9682	0.9682	0.98				

==========

Sequence No.: 10 Autosampler Location: 15
Sample ID: SD WG755986 L735181-06 Date Collected: 11/24/2014 8:41:43 AM
Analyst: 628 Data Type: Original
Initial Sample Wt: Initial Sample Vol: 30 mL

Dilution: 5X **Sample Prep Vol: 30 mL**

Replicate Data: SD WG755986 L735181-06

Repl #	SampleConc mg/L	StndConc mg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.00012	0.00002	-0.0000	0.0003	0.0001	08:42:40	Yes
2	0.00010	0.00002	-0.0001	-0.0003	0.0000	08:43:17	Yes
3	0.00014	0.00003	0.0000	0.0012	0.0001	08:43:53	Yes
Mean:	0.00012	0.00002	-0.0000				
SD:	0.00002	0.00000	0.0001				
%RSD:	15.01	15.01	125.61				

==========

Sequence No.: 11 **Autosampler Location: 16**
Sample ID: L734622-01 WG755986 **Date Collected: 11/24/2014 8:44:17 AM**
Analyst: 628 **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol: 30 mL**
Dilution: **Sample Prep Vol: 30 mL**

Replicate Data: L734622-01 WG755986

Repl #	SampleConc mg/L	StndConc mg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.00007	0.00007	0.0006	0.0065	0.0007	08:45:14	Yes
2	0.00007	0.00007	0.0005	0.0056	0.0007	08:45:51	Yes
3	0.00007	0.00007	0.0007	0.0069	0.0008	08:46:27	Yes
Mean:	0.00007	0.00007	0.0006				
SD:	0.00000	0.00000	0.0001				
%RSD:	6.823	6.823	11.19				

==========

Sequence No.: 12 **Autosampler Location: 17**
Sample ID: L734789-01 WG755986 **Date Collected: 11/24/2014 8:46:51 AM**
Analyst: 628 **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol: 30 mL**
Dilution: **Sample Prep Vol: 30 mL**

Replicate Data: L734789-01 WG755986

Repl #	SampleConc mg/L	StndConc mg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.00003	0.00003	0.0000	0.0012	0.0002	08:47:48	Yes
2	0.00003	0.00003	0.0000	0.0006	0.0001	08:48:24	Yes
3	0.00002	0.00002	-0.0000	0.0005	0.0001	08:49:01	Yes
Mean:	0.00003	0.00003	0.0000				
SD:	0.00000	0.00000	0.0000				
%RSD:	10.28	10.28	821.49				

==========

Sequence No.: 13 **Autosampler Location: 18**
Sample ID: L734789-02 WG755986 **Date Collected: 11/24/2014 8:49:24 AM**
Analyst: 628 **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol: 30 mL**
Dilution: **Sample Prep Vol: 30 mL**

Replicate Data: L734789-02 WG755986

Repl #	SampleConc mg/L	StndConc mg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.00003	0.00003	-0.0000	0.0009	0.0001	08:50:21	Yes
2	0.00003	0.00003	-0.0000	0.0005	0.0001	08:50:58	Yes
3	0.00003	0.00003	-0.0000	0.0004	0.0001	08:51:34	Yes
Mean:	0.00003	0.00003	-0.0000				
SD:	0.00000	0.00000	0.0000				
%RSD:	2.564	2.564	56.96				

==========

Sequence No.: 14 **Autosampler Location: 19**
Sample ID: L734789-03 WG755986 **Date Collected: 11/24/2014 8:51:57 AM**
Analyst: 628 **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol: 30 mL**

Dilution: Sample Prep Vol: 30 mL

Replicate Data: L734789-03 WG755986

Repl #	SampleConc mg/L	StndConc mg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.00002	0.00002	-0.0000	0.0000	0.0001	08:52:55	Yes
2	0.00002	0.00002	-0.0001	-0.0015	0.0000	08:53:31	Yes
3	0.00002	0.00002	-0.0001	-0.0010	0.0000	08:54:08	Yes
Mean:	0.00002	0.00002	-0.0001				
SD:	0.00000	0.00000	0.0000				
%RSD:	14.89	14.89	54.01				

==========

Sequence No.: 15 Autosampler Location: 20
Sample ID: L734789-04 WG755986 Date Collected: 11/24/2014 8:54:31 AM
Analyst: 628 Data Type: Original
Initial Sample Wt: Initial Sample Vol: 30 mL
Dilution: Sample Prep Vol: 30 mL

Replicate Data: L734789-04 WG755986

Repl #	SampleConc mg/L	StndConc mg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.00002	0.00002	-0.0001	-0.0007	0.0000	08:55:29	Yes
2	0.00003	0.00003	0.0001	0.0018	0.0002	08:56:05	Yes
3	0.00003	0.00003	0.0001	0.0013	0.0002	08:56:42	Yes
Mean:	0.00003	0.00003	0.0000				
SD:	0.00001	0.00001	0.0001				
%RSD:	25.66	25.66	732.97				

==========

Sequence No.: 16 Autosampler Location: 21
Sample ID: L734789-05 WG755986 Date Collected: 11/24/2014 8:57:05 AM
Analyst: 628 Data Type: Original
Initial Sample Wt: Initial Sample Vol: 30 mL
Dilution: Sample Prep Vol: 30 mL

Replicate Data: L734789-05 WG755986

Repl #	SampleConc mg/L	StndConc mg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.00003	0.00003	0.0000	0.0008	0.0001	08:58:02	Yes
2	0.00003	0.00003	0.0000	0.0007	0.0001	08:58:39	Yes
3	0.00004	0.00004	0.0001	0.0025	0.0003	08:59:15	Yes
Mean:	0.00003	0.00003	0.0000				
SD:	0.00001	0.00001	0.0001				
%RSD:	17.66	17.66	159.48				

==========

Sequence No.: 17 Autosampler Location: 22
Sample ID: L734789-06 WG755986 Date Collected: 11/24/2014 8:59:40 AM
Analyst: 628 Data Type: Original
Initial Sample Wt: Initial Sample Vol: 30 mL
Dilution: Sample Prep Vol: 30 mL

Replicate Data: L734789-06 WG755986

Repl #	SampleConc mg/L	StndConc mg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.00003	0.00003	0.0001	0.0024	0.0002	09:00:37	Yes
2	0.00002	0.00002	-0.0001	-0.0001	0.0001	09:01:14	Yes
3	0.00003	0.00003	0.0000	0.0014	0.0002	09:01:50	Yes
Mean:	0.00003	0.00003	0.0000				
SD:	0.00001	0.00001	0.0001				
%RSD:	19.13	19.13	267.79				

==========

Sequence No.: 18 Autosampler Location: 23
Sample ID: L734789-07 WG755986 Date Collected: 11/24/2014 9:02:15 AM
Analyst: 628 Data Type: Original
Initial Sample Wt: Initial Sample Vol: 30 mL

Dilution: **Sample Prep Vol: 30 mL**

Replicate Data: L734789-07 WG755986

Repl #	SampleConc mg/L	StndConc mg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.00004	0.00004	0.0002	0.0028	0.0004	09:03:13	Yes
2	0.00002	0.00002	-0.0000	0.0001	0.0001	09:03:50	Yes
3	0.00003	0.00003	0.0001	0.0019	0.0002	09:04:26	Yes
Mean:	0.00003	0.00003	0.0001				
SD:	0.00001	0.00001	0.0001				
%RSD:	29.18	29.18	159.73				

==========

Sequence No.: 19 **Autosampler Location: 24**
Sample ID: L734789-08 WG755986 **Date Collected: 11/24/2014 9:04:50 AM**
Analyst: 628 **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol: 30 mL**
Dilution: **Sample Prep Vol: 30 mL**

Replicate Data: L734789-08 WG755986

Repl #	SampleConc mg/L	StndConc mg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.00002	0.00002	-0.0001	0.0003	0.0001	09:05:49	Yes
2	0.00002	0.00002	-0.0000	0.0006	0.0001	09:06:25	Yes
3	0.00003	0.00003	0.0000	0.0013	0.0001	09:07:02	Yes
Mean:	0.00003	0.00003	-0.0000				
SD:	0.00000	0.00000	0.0000				
%RSD:	11.42	11.42	161.14				

==========

Sequence No.: 20 **Autosampler Location: 8**
Sample ID: CCV 14K07346 **Date Collected: 11/24/2014 9:07:26 AM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: CCV 14K07346

Repl #	SampleConc mg/L	StndConc mg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.00256	0.00256	0.0362	0.2974	0.0363	09:08:23	Yes
2	0.00253	0.00253	0.0358	0.2919	0.0359	09:09:00	Yes
3	0.00251	0.00251	0.0355	0.2890	0.0356	09:09:36	Yes
Mean:	0.00253	0.00253	0.0358				
SD:	0.00002	0.00002	0.0004				
%RSD:	0.9761	0.9761	0.99				

QC value within limits for Hg 253.7 Recovery = 101.21%
All analyte(s) passed QC.

==========

Sequence No.: 21 **Autosampler Location: 1**
Sample ID: CCB **Date Collected: 11/24/2014 9:10:00 AM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: CCB

Repl #	SampleConc mg/L	StndConc mg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.00003	0.00003	0.0000	0.0014	0.0002	09:10:57	Yes
2	0.00002	0.00002	-0.0001	-0.0010	0.0000	09:11:33	Yes
3	0.00002	0.00002	-0.0000	0.0006	0.0001	09:12:10	Yes
Mean:	0.00002	0.00002	-0.0000				
SD:	0.00000	0.00000	0.0001				
%RSD:	19.36	19.36	195.09				

QC value within limits for Hg 253.7 Recovery = Not calculated
All analyte(s) passed QC.

==========

Sequence No.: 22
Sample ID: L734810-02 WG755986
Analyst: 628
Initial Sample Wt:
Dilution:
Autosampler Location: 25
Date Collected: 11/24/2014 9:12:33 AM
Data Type: Original
Initial Sample Vol: 30 mL
Sample Prep Vol: 30 mL

Replicate Data: L734810-02 WG755986

Repl #	SampleConc mg/L	StndConc mg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.00003	0.00003	0.0001	0.0013	0.0002	09:13:32	Yes
2	0.00003	0.00003	0.0001	0.0011	0.0002	09:14:08	Yes
3	0.00003	0.00003	-0.0000	0.0006	0.0001	09:14:44	Yes
Mean:	0.00003	0.00003	0.0000				
SD:	0.00000	0.00000	0.0001				
%RSD:	13.11	13.11	138.04				

Sequence No.: 23
Sample ID: L734810-04 WG755986
Analyst: 628
Initial Sample Wt:
Dilution:
Autosampler Location: 26
Date Collected: 11/24/2014 9:15:09 AM
Data Type: Original
Initial Sample Vol: 30 mL
Sample Prep Vol: 30 mL

Replicate Data: L734810-04 WG755986

Repl #	SampleConc mg/L	StndConc mg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.00003	0.00003	0.0001	0.0016	0.0002	09:16:06	Yes
2	0.00002	0.00002	-0.0001	0.0000	0.0000	09:16:42	Yes
3	0.00003	0.00003	0.0000	0.0009	0.0001	09:17:19	Yes
Mean:	0.00003	0.00003	-0.0000				
SD:	0.00001	0.00001	0.0001				
%RSD:	19.05	19.05	889.52				

Sequence No.: 24
Sample ID: L734810-06 WG755986
Analyst: 628
Initial Sample Wt:
Dilution:
Autosampler Location: 27
Date Collected: 11/24/2014 9:17:42 AM
Data Type: Original
Initial Sample Vol: 30 mL
Sample Prep Vol: 30 mL

Replicate Data: L734810-06 WG755986

Repl #	SampleConc mg/L	StndConc mg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.00003	0.00003	0.0000	0.0006	0.0001	09:18:39	Yes
2	0.00003	0.00003	-0.0000	0.0010	0.0001	09:19:16	Yes
3	0.00004	0.00004	0.0002	0.0031	0.0003	09:19:52	Yes
Mean:	0.00003	0.00003	0.0001				
SD:	0.00001	0.00001	0.0001				
%RSD:	22.10	22.10	155.37				

Sequence No.: 25
Sample ID: L734810-08 WG755986
Analyst: 628
Initial Sample Wt:
Dilution:
Autosampler Location: 28
Date Collected: 11/24/2014 9:20:16 AM
Data Type: Original
Initial Sample Vol: 30 mL
Sample Prep Vol: 30 mL

Replicate Data: L734810-08 WG755986

Repl #	SampleConc mg/L	StndConc mg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.00002	0.00002	-0.0001	-0.0008	0.0000	09:21:13	Yes
2	0.00003	0.00003	-0.0000	0.0005	0.0001	09:21:49	Yes
3	0.00003	0.00003	-0.0000	0.0004	0.0001	09:22:26	Yes
Mean:	0.00002	0.00002	-0.0000				
SD:	0.00000	0.00000	0.0001				
%RSD:	14.99	14.99	116.07				

Sequence No.: 26
Sample ID: L734941-01 WG755986
Analyst: 628
Initial Sample Wt:
Dilution:
Autosampler Location: 29
Date Collected: 11/24/2014 9:22:50 AM
Data Type: Original
Initial Sample Vol: 30 mL
Sample Prep Vol: 30 mL

Replicate Data: L734941-01 WG755986

Repl #	SampleConc mg/L	StndConc mg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.00003	0.00003	0.0000	0.0015	0.0001	09:23:47	Yes
2	0.00002	0.00002	-0.0000	-0.0001	0.0001	09:24:24	Yes
3	0.00003	0.00003	0.0001	0.0014	0.0002	09:25:00	Yes
Mean:	0.00003	0.00003	0.0000				
SD:	0.00000	0.00000	0.0001				
%RSD:	13.26	13.26	626.25				

Sequence No.: 27
Sample ID: L735084-05 WG755986
Analyst: 628
Initial Sample Wt:
Dilution:
Autosampler Location: 30
Date Collected: 11/24/2014 9:25:24 AM
Data Type: Original
Initial Sample Vol: 30 mL
Sample Prep Vol: 30 mL

Replicate Data: L735084-05 WG755986

Repl #	SampleConc mg/L	StndConc mg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.00002	0.00002	-0.0001	-0.0001	0.0001	09:26:22	Yes
2	0.00002	0.00002	-0.0000	-0.0000	0.0001	09:26:58	Yes
3	0.00002	0.00002	-0.0001	-0.0004	0.0001	09:27:34	Yes
Mean:	0.00002	0.00002	-0.0001				
SD:	0.00000	0.00000	0.0000				
%RSD:	5.216	5.216	31.96				

Sequence No.: 28
Sample ID: L735084-06 WG755986
Analyst: 628
Initial Sample Wt:
Dilution:
Autosampler Location: 31
Date Collected: 11/24/2014 9:27:58 AM
Data Type: Original
Initial Sample Vol: 30 mL
Sample Prep Vol: 30 mL

Replicate Data: L735084-06 WG755986

Repl #	SampleConc mg/L	StndConc mg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.00002	0.00002	-0.0000	0.0003	0.0001	09:28:55	Yes
2	0.00004	0.00004	0.0001	0.0019	0.0003	09:29:31	Yes
3	0.00003	0.00003	-0.0000	-0.0003	0.0001	09:30:08	Yes
Mean:	0.00003	0.00003	0.0000				
SD:	0.00001	0.00001	0.0001				
%RSD:	23.50	23.50	447.83				

Sequence No.: 29
Sample ID: L735084-07 WG755986
Analyst: 628
Initial Sample Wt:
Dilution:
Autosampler Location: 32
Date Collected: 11/24/2014 9:30:31 AM
Data Type: Original
Initial Sample Vol: 30 mL
Sample Prep Vol: 30 mL

Replicate Data: L735084-07 WG755986

Repl #	SampleConc mg/L	StndConc mg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.00003	0.00003	0.0001	0.0017	0.0002	09:31:29	Yes
2	0.00003	0.00003	0.0001	0.0019	0.0002	09:32:05	Yes
3	0.00003	0.00003	0.0000	0.0005	0.0001	09:32:42	Yes
Mean:	0.00003	0.00003	0.0000				
SD:	0.00000	0.00000	0.0000				
%RSD:	6.158	6.158	60.12				

Sequence No.: 30
Sample ID: L735181-03 WG755986
Analyst: 628
Initial Sample Wt:
Dilution:

Autosampler Location: 33
Date Collected: 11/24/2014 9:33:05 AM
Data Type: Original
Initial Sample Vol: 30 mL
Sample Prep Vol: 30 mL

Replicate Data: L735181-03 WG755986

Repl #	SampleConc mg/L	StndConc mg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.00002	0.00002	-0.0000	0.0003	0.0001	09:34:03	Yes
2	0.00003	0.00003	0.0000	0.0008	0.0001	09:34:39	Yes
3	0.00003	0.00003	0.0001	0.0017	0.0002	09:35:16	Yes
Mean:	0.00003	0.00003	0.0000				
SD:	0.00000	0.00000	0.0001				
%RSD:	15.32	15.32	391.18				

==========

Sequence No.: 31
Sample ID: L735181-04 WG755986
Analyst: 628
Initial Sample Wt:
Dilution:

Autosampler Location: 34
Date Collected: 11/24/2014 9:35:39 AM
Data Type: Original
Initial Sample Vol: 30 mL
Sample Prep Vol: 30 mL

Replicate Data: L735181-04 WG755986

Repl #	SampleConc mg/L	StndConc mg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.00003	0.00003	0.0001	0.0014	0.0002	09:36:37	Yes
2	0.00005	0.00005	0.0003	0.0035	0.0004	09:37:13	Yes
3	0.00003	0.00003	0.0000	0.0014	0.0002	09:37:50	Yes
Mean:	0.00004	0.00004	0.0001				
SD:	0.00001	0.00001	0.0001				
%RSD:	24.42	24.42	91.18				

==========

Sequence No.: 32
Sample ID: INSTBLK WG755986
Analyst: 628
Initial Sample Wt:
Dilution:

Autosampler Location: 35
Date Collected: 11/24/2014 9:38:14 AM
Data Type: Original
Initial Sample Vol: 30 mL
Sample Prep Vol: 30 mL

Replicate Data: INSTBLK WG755986

Repl #	SampleConc mg/L	StndConc mg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.00002	0.00002	-0.0001	-0.0004	0.0000	09:39:12	Yes
2	0.00002	0.00002	-0.0000	0.0005	0.0001	09:39:49	Yes
3	0.00002	0.00002	-0.0001	-0.0007	0.0000	09:40:25	Yes
Mean:	0.00002	0.00002	-0.0001				
SD:	0.00000	0.00000	0.0000				
%RSD:	12.13	12.13	49.44				

==========

Sequence No.: 33
Sample ID: CCV 14K07346
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 8
Date Collected: 11/24/2014 9:40:49 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: CCV 14K07346

Repl #	SampleConc mg/L	StndConc mg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.00251	0.00251	0.0356	0.2913	0.0357	09:41:46	Yes
2	0.00248	0.00248	0.0351	0.2866	0.0352	09:42:23	Yes
3	0.00249	0.00249	0.0353	0.2873	0.0354	09:42:59	Yes
Mean:	0.00250	0.00250	0.0353				
SD:	0.00002	0.00002	0.0002				
%RSD:	0.6327	0.6327	0.64				

QC value within limits for Hg 253.7 Recovery = 99.84%
All analyte(s) passed QC.

==========

Sequence No.: 34 **Autosampler Location: 1**
Sample ID: CCB **Date Collected: 11/24/2014 9:43:24 AM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: CCB

Repl #	SampleConc mg/L	StndConc mg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.00002	0.00002	-0.0000	0.0002	0.0001	09:44:20	Yes
2	0.00003	0.00003	0.0001	0.0012	0.0002	09:44:57	Yes
3	0.00003	0.00003	-0.0000	-0.0000	0.0001	09:45:33	Yes
Mean:	0.00003	0.00003	0.0000				
SD:	0.00000	0.00000	0.0001				
%RSD:	12.95	12.95	>999.9%				

QC value within limits for Hg 253.7 Recovery = Not calculated
All analyte(s) passed QC.

==========

Sequence No.: 35 **Autosampler Location: 36**
Sample ID: BLANK WG756309 **Date Collected: 11/24/2014 9:45:57 AM**
Analyst: 628 **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol: 30 mL**
Dilution: **Sample Prep Vol: 30 mL**

Replicate Data: BLANK WG756309

Repl #	SampleConc mg/L	StndConc mg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.00002	0.00002	-0.0000	0.0004	0.0001	09:46:55	Yes
2	0.00003	0.00003	0.0000	0.0011	0.0001	09:47:31	Yes
3	0.00003	0.00003	-0.0000	0.0008	0.0001	09:48:08	Yes
Mean:	0.00003	0.00003	-0.0000				
SD:	0.00000	0.00000	0.0000				
%RSD:	8.491	8.491	326.33				

==========

Sequence No.: 36 **Autosampler Location: 37**
Sample ID: LCS WG756309 **Date Collected: 11/24/2014 9:48:32 AM**
Analyst: 628 **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol: 30 mL**
Dilution: **Sample Prep Vol: 30 mL**

Replicate Data: LCS WG756309

Repl #	SampleConc mg/L	StndConc mg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.00290	0.00290	0.0411	0.3364	0.0412	09:49:30	Yes
2	0.00288	0.00288	0.0408	0.3337	0.0410	09:50:07	Yes
3	0.00288	0.00288	0.0408	0.3327	0.0410	09:50:43	Yes
Mean:	0.00289	0.00289	0.0409				
SD:	0.00001	0.00001	0.0001				
%RSD:	0.3496	0.3496	0.35				

==========

Sequence No.: 37 **Autosampler Location: 38**
Sample ID: LCSD WG756309 **Date Collected: 11/24/2014 9:51:08 AM**
Analyst: 628 **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol: 30 mL**
Dilution: **Sample Prep Vol: 30 mL**

Replicate Data: LCSD WG756309

Repl #	SampleConc mg/L	StndConc mg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.00305	0.00305	0.0432	0.3565	0.0433	09:52:05	Yes
2	0.00301	0.00301	0.0426	0.3489	0.0428	09:52:42	Yes
3	0.00302	0.00302	0.0428	0.3515	0.0429	09:53:18	Yes
Mean:	0.00303	0.00303	0.0429				

==========

Sequence No.: 125 **Autosampler Location: 3**
Sample ID: CCVLL 14K20068 **Date Collected: 11/24/2014 1:48:19 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: CCVLL 14K20068

Repl #	SampleConc mg/L	StndConc mg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.00002	0.00002	-0.0001	-0.0001	0.0000	13:49:17	Yes
2	0.00002	0.00002	-0.0001	-0.0005	0.0000	13:49:54	Yes
3	0.00003	0.00003	0.0001	0.0018	0.0002	13:50:30	Yes
Mean:	0.00002	0.00002	-0.0000				
SD:	0.00001	0.00001	0.0001				
%RSD:	24.03	24.03	220.22				

QC value less than the lower limit for Hg 253.7 Recovery = 12.22%
QC Failed. Stop the analysis.

==========

Analysis Begun

Logged In Analyst: hg3 **Technique: AA FIMS-MHS**
Spectrometer Model: FIMS-100, S/N B050-9550 **Autosampler Model: AS-93plus**

Sample Information File: C:\data-FIMS3\Sample Information\112414CVAA3 W.sif
Batch ID: 628
Results Data Set: 112414CVAA3 W
Results Library: C:\data-FIMS3\Results\Results.mdb

==========

Sequence No.: 125 **Autosampler Location: 3**
Sample ID: CCVLL 14K20068 **Date Collected: 11/24/2014 1:55:38 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: CCVLL 14K20068

Repl #	SampleConc mg/L	StndConc mg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.00024	0.00024	0.0031	0.0276	0.0032	13:56:35	Yes
2	0.00023	0.00023	0.0029	0.0247	0.0030	13:57:12	Yes
3	0.00024	0.00024	0.0031	0.0258	0.0032	13:57:48	Yes
Mean:	0.00024	0.00024	0.0030				
SD:	0.00001	0.00001	0.0001				
%RSD:	3.386	3.386	3.82				

QC value within limits for Hg 253.7 Recovery = 118.88%
All analyte(s) passed QC.

==========

Sequence No.: 126 **Autosampler Location: 8**
Sample ID: CCV 14K07346 **Date Collected: 11/24/2014 1:58:13 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: CCV 14K07346

Repl #	SampleConc mg/L	StndConc mg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.00274	0.00274	0.0389	0.3260	0.0390	13:59:10	Yes
2	0.00271	0.00271	0.0383	0.3192	0.0385	13:59:46	Yes
3	0.00271	0.00271	0.0383	0.3182	0.0385	14:00:22	Yes
Mean:	0.00272	0.00272	0.0385				
SD:	0.00002	0.00002	0.0003				
%RSD:	0.7609	0.7609	0.77				

QC value within limits for Hg 253.7 Recovery = 108.77%
All analyte(s) passed QC.

==========

Sequence No.: 127
Sample ID: CCB
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 1
Date Collected: 11/24/2014 2:00:46 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: CCB

Repl #	SampleConc mg/L	StndConc mg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.00002	0.00002	-0.0000	0.0004	0.0001	14:01:43	Yes
2	0.00002	0.00002	-0.0001	-0.0013	0.0000	14:02:20	Yes
3	0.00003	0.00003	-0.0000	0.0006	0.0001	14:02:57	Yes
Mean:	0.00002	0.00002	-0.0001				
SD:	0.00000	0.00000	0.0001				
%RSD:	16.63	16.63	92.38				

QC value within limits for Hg 253.7 Recovery = Not calculated
All analyte(s) passed QC.

Analytical Sequence
Method: Hg Water PPM-TEST

Seq.	Loc.	ID	Status
1	156	ICVLL 14K14700	QC Passed
2	157	ICV 14K07344	QC Passed
3	1	ICB	QC Passed
4	9	BLANK WG755986	Analyzed
5	10	LCS WG755986	Analyzed
6	11	LCSD WG755986	Analyzed
7	12	L735181-06 WG755986	Analyzed
8	13	MS WG755986 L735181-06	Analyzed
9	14	MSD WG755986 L735181-06	Analyzed
10	15	SD WG755986 L735181-06	Analyzed
11	16	L734622-01 WG755986	Analyzed
12	17	L734789-01 WG755986	Analyzed
13	18	L734789-02 WG755986	Analyzed
14	19	L734789-03 WG755986	Analyzed
15	20	L734789-04 WG755986	Analyzed
16	21	L734789-05 WG755986	Analyzed
17	22	L734789-06 WG755986	Analyzed
18	23	L734789-07 WG755986	Analyzed
19	24	L734789-08 WG755986	Analyzed
20	8	CCV 14K07346	QC Passed
21	1	CCB	QC Passed
22	25	L734810-02 WG755986	Analyzed
23	26	L734810-04 WG755986	Analyzed
24	27	L734810-06 WG755986	Analyzed
25	28	L734810-08 WG755986	Analyzed
26	29	L734941-01 WG755986	Analyzed
27	30	L735084-05 WG755986	Analyzed
28	31	L735084-06 WG755986	Analyzed
29	32	L735084-07 WG755986	Analyzed
30	33	L735181-03 WG755986	Analyzed
31	34	L735181-04 WG755986	Analyzed
32	35	INSTBLK WG755986	Analyzed
33	8	CCV 14K07346	QC Passed
34	1	CCB	QC Passed
35	36	BLANK WG756309	Analyzed
36	37	LCS WG756309	Analyzed
37	38	LCSD WG756309	Analyzed
38	39	L735094-01 WG756309	Analyzed
39	40	MS WG756309 L735094-01	Analyzed
40	41	MSD WG756309 L735094-01	Analyzed
41	42	SD WG756309 L735094-01	Analyzed
42	43	L734977-01 WG756309	Analyzed
43	44	L734982-01 WG756309	Analyzed
44	45	L734982-02 WG756309	Analyzed
45	46	L734982-03 WG756309	Analyzed
46	47	L734982-04 WG756309	Analyzed
47	48	L735052-01 WG756309	Analyzed
48	49	L735052-02 WG756309	Analyzed
49	50	L735052-03 WG756309	Analyzed
50	51	L735094-02 WG756309	Analyzed

51	8	CCV 14K07346	QC Passed
52	1	CCB	QC Passed
53	52	L735094-03 WG756309	Analyzed
54	53	L735094-04 WG756309	Analyzed
55	54	L735094-05 WG756309	Analyzed
56	55	L735094-06 WG756309	Analyzed
57	56	L735094-10 WG756309	Analyzed
58	57	L735094-11 WG756309	Analyzed
59	58	L735094-12 WG756309	Analyzed
60	59	L735094-13 WG756309	Analyzed
61	60	L735243-01 WG756309	Analyzed
62	61	L735243-02 WG756309	Analyzed
63	62	INSTBLK WG756309	Analyzed
64	8	CCV 14K07346	QC Passed
65	1	CCB	QC Passed
66	63	BLANK WG756307	Analyzed
67	64	LCS WG756307	Analyzed
68	65	LCSD WG756307	Analyzed
69	66	L734934-06 WG756307	Analyzed
70	67	MS WG756307 L734934-06	Analyzed
71	68	MSD WG756307 L734934-06	Analyzed
72	69	SD WG756307 L734934-06	Analyzed
73	70	L734934-01 WG756307	Analyzed
74	71	L734934-02 WG756307	Analyzed
75	72	L734934-03 WG756307	Analyzed
76	73	L734934-04 WG756307	Analyzed
77	74	L734934-05 WG756307	Analyzed
78	75	L734934-07 WG756307	Analyzed
79	76	L734934-08 WG756307	Analyzed
80	77	L734934-09 WG756307	Analyzed
81	78	L734934-10 WG756307	Analyzed
82	8	CCV 14K07346	QC Passed
83	1	CCB	QC Passed
84	79	L734934-11 WG756307	Analyzed
85	80	L734934-12 WG756307	Analyzed
86	81	L734934-13 WG756307	Analyzed
87	82	L734934-14 WG756307	Analyzed
88	83	L734934-15 WG756307	Analyzed
89	84	L734934-16 WG756307	Analyzed
90	85	L734934-17 WG756307	Analyzed
91	86	L734934-18 WG756307	Analyzed
92	87	L734934-19 WG756307	Analyzed
93	88	L734934-20 WG756307	Analyzed
94	89	INSTBLK WG756307	Analyzed
95	8	CCV 14K07346	QC Passed
96	1	CCB	QC Passed
97	90	BLANK WG756319	Analyzed
98	91	LCS WG756319	Analyzed
99	92	LCSD WG756319	Analyzed
100	93	L735095-09 WG756319	Analyzed
101	94	MS WG756319 L735095-09	Analyzed
102	95	MSD WG756319 L735095-09	Analyzed
103	96	SD WG756319 L735095-09	Analyzed
104	97	L735095-10 WG756319	Analyzed
105	98	L735095-11 WG756319	Analyzed
106	99	L735095-12 WG756319	Analyzed
107	100	L735095-13 WG756319	Analyzed
108	101	L735095-14 WG756319	Analyzed
109	102	L735095-15 WG756319	Analyzed
110	103	L735160-01 WG756319	Analyzed
111	104	L735160-02 WG756319	Analyzed
112	105	L735160-03 WG756319	Analyzed
113	8	CCV 14K07346	QC Passed
114	1	CCB	QC Passed
115	106	L735160-04 WG756319	Analyzed
116	107	L735160-05 WG756319	Analyzed
117	108	L735160-06 WG756319	Analyzed
118	109	L735200-01 WG756319	Analyzed
119	110	L735200-02 WG756319	Analyzed
120	111	L735200-03 WG756319	Analyzed
121	112	L735200-04 WG756319	Analyzed
122	113	L735200-05 WG756319	Analyzed

123	114	L735296-01 WG756319	Analyzed
124	115	INSTBLK WG756319	Analyzed
125	3	CCVLL 14K20068	QC Passed
126	8	CCV 14K07346	QC Passed
127	1	CCB	QC Passed

Trace Metals by Method 6010B

12065 Lebanon Rd
Mt. Juliet, TN 37122
(615) 758-5858
(800) 767-5859
Fax (615) 758-5859
Tax I.D 62-0814289
Est. 1970

Quality Control Summary
SDG: L735181

Trace Metals by Method 6010B
URS Corporation - Tucson AZ - 1088308

Project: Holloman AFB
Project No: 23446543.0057AA

Login No: L735181

Lab SampleID.	Client ID
L735181-01	H-TU508-TRIPBLANK-TT01
L735181-02	H-TU508-MW06-NT01
L735181-03	H-TU508-MW06-ND01
L735181-04	H-TU508-MW05-ND01
L735181-05	H-TU508-MW05-NT01
L735181-06	H-TU508-MW04-ND01
L735181-07	H-TU508-MW04-NT01
L735181-08	H-TU508-MW07-NT01
L735181-09	H-TU508-MW07-ND01
L735181-10	H-TU508-MW07-NT01

I certify that this data package accurately represents the information in the raw data found herein, both technically and for completeness. Release of the data contained in this data package has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature.

Signature: _____ Name: ESC Lab Sciences

Date: _____ Title: Quality Control

12065 Lebanon Rd
Mt. Juliet, TN 37122
(615) 758-5858
(800) 767-5859
Fax (615) 758-5859
Tax I.D 62-0814289
Est. 1970

Quality Control Summary
SDG: L735181
URS Corporation - Tucson AZ - 1088308

Test:	Trace Metals by Method 6010B		
Project No:	23446543.0057AA	Matrix:	Water - mg/L
Project:	Holloman AFB	EPA ID:	TN00003
Collection Date:	11/20/2014	**Analytic Batch:**	**WG756740**
Analysis Date:	11/26/2014	Analyst:	388
Instrument ID:	ICP12	Prep Date:	11/25/2014
Sample Numbers:	L735181-03, -04, -06, -09		

Workgroup: **WG756740**

Sample Name	Collect Date	Prep Date	Analysis Date
L735181-03 5x	11/19/2014	11/25/2014	11/26/2014
L735181-04 5x	11/19/2014	11/25/2014	11/26/2014
L735181-06 5x	11/19/2014	11/25/2014	11/26/2014
L735181-09 5x	11/21/2014	11/25/2014	11/26/2014

Parameters in bold text are reported in this SDG

12065 Lebanon Rd
Mt. Juliet, TN 37122
(615) 758-5858
(800) 767-5859
Fax (615) 758-5859
Tax I.D 62-0814289
Est. 1970

Quality Control Summary
SDG: L735181
URS Corporation - Tucson AZ - 1088308

Test:	Trace Metals by Method 6010B		
Project No:	23446543.0057AA	Matrix:	Water - mg/L
Project:	Holloman AFB	EPA ID:	TN00003
Collection Date:	11/20/2014	**Analytic Batch:**	**WG756747**
Analysis Date:	11/28/2014	Analyst:	388
Instrument ID:	ICP12	Prep Date:	11/25/2014
Sample Numbers:	L735181-02, -05, -07, -08		

Workgroup: **WG756747**

Sample Name	Collect Date	Prep Date	Analysis Date
L735181-02 5x	11/19/2014	11/26/2014	11/28/2014
L735181-05 5x	11/19/2014	11/26/2014	11/28/2014
L735181-07 5x	11/19/2014	11/26/2014	11/28/2014
L735181-08 5x	11/21/2014	11/26/2014	11/28/2014

Parameters in bold text are reported in this SDG

12065 Lebanon Rd
Mt. Juliet, TN 37122
(615) 758-5858
(800) 767-5859
Fax (615) 758-5859
Tax I.D 62-0814289
Est. 1970

Quality Control Summary
SDG: L735181
URS Corporation - Tucson AZ - 1088308

Test:	Trace Metals by Method 6010B		
Project No:	23446543.0057AA	Matrix:	Water - mg/L
Project:	Holloman AFB	EPA ID:	TN00003
Collection Date:	11/20/2014	**Analytic Batch:**	**WG756740**
Analysis Date:	11/26/2014	Analyst:	388
Instrument ID:	ICP12	Prep Date:	11/25/2014
Sample Numbers:	L735181-03, -04, -06, -09		

Method Blank Summary

Instrument	Client Sample ID	Lab Sample ID	File Name	Analysis Date	Analysis Time
ICP12	Blank WG756740	Blank WG756740	87	11/26/2014	3:33 PM
ICP12	LCS WG756740	LCS WG756740	88	11/26/2014	3:37 PM
ICP12	LCSD WG756740	LCSD WG756740	89	11/26/2014	3:42 PM
ICP12	DUP WG756740	DUP WG756740	91	11/26/2014	3:51 PM
ICP12	MS WG756740	MS WG756740	92	11/26/2014	3:55 PM
ICP12	MSD WG756740	MSD WG756740	93	11/26/2014	3:59 PM
ICP12	H-TU508-MW06-ND01	L735181-03	106	11/26/2014	5:09 PM
ICP12	H-TU508-MW05-ND01	L735181-04	107	11/26/2014	5:14 PM
ICP12	H-TU508-MW04-ND01	L735181-06	110	11/26/2014	5:27 PM
ICP12	H-TU508-MW07-ND01	L735181-09	111	11/26/2014	5:31 PM
ICP12	PS WG756740	PS WG756740	116	11/26/2014	6:11 PM

Parameters in bold text are reported in this SDG

12065 Lebanon Rd
Mt. Juliet, TN 37122
(615) 758-5858
(800) 767-5859
Fax (615) 758-5859
Tax I.D 62-0814289
Est. 1970

Quality Control Summary
SDG: L735181
URS Corporation - Tucson AZ - 1088308

Test:	Trace Metals by Method 6010B		
Project No:	23446543.0057AA	Matrix:	Water - mg/L
Project:	Holloman AFB	EPA ID:	TN00003
Collection Date:	11/20/2014	**Analytic Batch:**	**WG756747**
Analysis Date:	11/28/2014	Analyst:	388
Instrument ID:	ICP12	Prep Date:	11/25/2014
Sample Numbers:	L735181-02, -05, -07, -08		

Method Blank Summary

Instrument	Client Sample ID	Lab Sample ID	File Name	Analysis Date	Analysis Time
ICP12	Blank WG756747	Blank WG756747	27	11/28/2014	3:29 PM
ICP12	LCS WG756747	LCS WG756747	28	11/28/2014	3:34 PM
ICP12	LCSD WG756747	LCSD WG756747	29	11/28/2014	3:38 PM
ICP12	DUP WG756747	DUP WG756747	31	11/28/2014	3:47 PM
ICP12	PS WG756747	PS WG756747	32	11/28/2014	3:52 PM
ICP12	MS WG756747	MS WG756747	33	11/28/2014	3:56 PM
ICP12	MSD WG756747	MSD WG756747	34	11/28/2014	4:01 PM
ICP12	H-TU508-MW06-NT01	L735181-02	44	11/28/2014	4:46 PM
ICP12	H-TU508-MW05-NT01	L735181-05	45	11/28/2014	4:51 PM
ICP12	H-TU508-MW04-NT01	L735181-07	46	11/28/2014	4:55 PM
ICP12	H-TU508-MW07-NT01	L735181-08	47	11/28/2014	5:00 PM

Parameters in bold text are reported in this SDG

12065 Lebanon Rd
Mt. Juliet, TN 37122
(615) 758-5858
(800) 767-5859
Fax (615) 758-5859
Tax I.D 62-0814289
Est. 1970

Quality Control Summary
SDG: L735181
URS Corporation - Tucson AZ - 1088308

Test:	Trace Metals by Method 6010B		
Project No:	23446543.0057AA	Matrix:	Water - mg/L
Project:	Holloman AFB	EPA ID:	TN00003
Collection Date:	11/20/2014	**Analytic Batch:**	**WG756740**
Analysis Date:	11/26/2014	Analyst:	388
Instrument ID:	ICP12	Prep Date:	11/25/2014
Sample Numbers:	L735181-03, -04, -06, -09		

Method Blank

Analyte	CAS	RDL	MDL	Qualifier
Aluminum,Dissolved	7429-90-5	< 0.100	0.0434	
Barium,Dissolved	7440-39-3	< 0.00500	< 0.00170	
Beryllium,Dissolved	7440-41-7	< 0.00200	< 0.000700	
Copper,Dissolved	7440-50-8	< 0.0200	< 0.00530	
Manganese,Dissolved	7439-96-5	< 0.0100	< 0.00120	
Vanadium,Dissolved	7440-62-2	< 0.0200	0.00351	
Zinc,Dissolved	7440-66-6	< 0.0500	< 0.00590	

Parameters in bold text are reported in this SDG

12065 Lebanon Rd
Mt. Juliet, TN 37122
(615) 758-5858
(800) 767-5859
Fax (615) 758-5859
Tax I.D 62-0814289
Est. 1970

Quality Control Summary
SDG: L735181
URS Corporation - Tucson AZ - 1088308

Test:	Trace Metals by Method 6010B		
Project No:	23446543.0057AA	Matrix:	Water - mg/L
Project:	Holloman AFB	EPA ID:	TN00003
Collection Date:	11/20/2014	**Analytic Batch:**	**WG756747**
Analysis Date:	11/28/2014	Analyst:	388
Instrument ID:	ICP12	Prep Date:	11/25/2014
Sample Numbers:	L735181-02, -05, -07, -08		

Method Blank

Analyte	CAS	RDL	MDL	Qualifier
Aluminum	7429-90-5	< 0.100	< 0.0350	
Barium	7440-39-3	< 0.00500	< 0.00170	
Beryllium	7440-41-7	< 0.00200	< 0.000700	
Copper	7440-50-8	< 0.0200	< 0.00530	
Manganese	7439-96-5	< 0.0100	< 0.00120	
Vanadium	7440-62-2	< 0.0200	< 0.00240	
Zinc	7440-66-6	< 0.0500	< 0.00590	

Parameters in bold text are reported in this SDG

12065 Lebanon Rd
Mt. Juliet, TN 37122
(615) 758-5858
(800) 767-5859
Fax (615) 758-5859
Tax I.D 62-0814289
Est. 1970

Quality Control Summary
SDG: L735181
URS Corporation - Tucson AZ - 1088308

Test:	Trace Metals by Method 6010B		
Project No:	23446543.0057AA	Matrix:	Water - mg/L
Project:	Holloman AFB	EPA ID:	TN00003
Collection Date:	11/20/2014	**Analytic Batch:**	**WG756740**
Analysis Date:	11/26/2014	Analyst:	388
Instrument ID:	ICP12	Prep Date:	11/25/2014
Sample Numbers:	L735181-03, -04, -06, -09		

Laboratory Control Sample (LCS)

Analyte	Dil	True Value	Found	% Rec	Control Limits	Qual
Aluminum,Dissolved	1	1	0.9534	95	80 - 120	
Barium,Dissolved	1	1	1.0744	107	80 - 120	
Beryllium,Dissolved	1	1	1.0479	105	80 - 120	
Copper,Dissolved	1	1	1.0533	105	80 - 120	
Manganese,Dissolved	1	1	1.0881	109	80 - 120	
Vanadium,Dissolved	1	1	1.0482	105	80 - 120	
Zinc,Dissolved	1	1	0.9720	97	80 - 120	

Laboratory Control Sample Duplicate (LCSD)

Analyte	Dil	True Value	Found	% Rec	Control Limits	Qual
Aluminum,Dissolved	1	1	1.0029	100	80 - 120	
Barium,Dissolved	1	1	1.0740	107	80 - 120	
Beryllium,Dissolved	1	1	1.0444	104	80 - 120	
Copper,Dissolved	1	1	1.0510	105	80 - 120	
Manganese,Dissolved	1	1	0.9985	100	80 - 120	
Vanadium,Dissolved	1	1	1.0622	106	80 - 120	
Zinc,Dissolved	1	1	0.9782	98	80 - 120	

Laboratory Control Sample / Laboratory Control Sample Duplicate

Analyte	Dil	Spike	LCS	% Rec	LCSD	% Rec	Control Limits	% Rec Qual	% RPD	Control Limits	RPD Qual
Aluminum,Dissolved	1	1	0.9534	95	1.0029	100	80 - 120		5	20	
Barium,Dissolved	1	1	1.0744	107	1.0740	107	80 - 120		0	20	
Beryllium,Dissolved	1	1	1.0479	105	1.0444	104	80 - 120		0	20	
Copper,Dissolved	1	1	1.0533	105	1.0510	105	80 - 120		0	20	
Manganese,Dissolved	1	1	1.0881	109	0.9985	100	80 - 120		9	20	
Vanadium,Dissolved	1	1	1.0482	105	1.0622	106	80 - 120		1	20	
Zinc,Dissolved	1	1	0.9720	97	0.9782	98	80 - 120		1	20	

Parameters in bold text are reported in this SDG

12065 Lebanon Rd
Mt. Juliet, TN 37122
(615) 758-5858
(800) 767-5859
Fax (615) 758-5859
Tax I.D 62-0814289
Est. 1970

Quality Control Summary
SDG: L735181
URS Corporation - Tucson AZ - 1088308

Test:	Trace Metals by Method 6010B		
Project No:	23446543.0057AA	Matrix:	Water - mg/L
Project:	Holloman AFB	EPA ID:	TN00003
Collection Date:	11/20/2014	**Analytic Batch:**	**WG756747**
Analysis Date:	11/28/2014	Analyst:	388
Instrument ID:	ICP12	Prep Date:	11/25/2014
Sample Numbers:	L735181-02, -05, -07, -08		

Laboratory Control Sample (LCS)

Analyte	Dil	True Value	Found	% Rec	Control Limits	Qual
Aluminum	1	1	1.0036	100	80 - 120	
Barium	1	1	1.0375	104	80 - 120	
Beryllium	1	1	1.006	101	80 - 120	
Copper	1	1	0.9926	99	80 - 120	
Manganese	1	1	0.9943	99	80 - 120	
Vanadium	1	1	1.0223	102	80 - 120	
Zinc	1	1	0.9821	98	80 - 120	

Laboratory Control Sample Duplicate (LCSD)

Analyte	Dil	True Value	Found	% Rec	Control Limits	Qual
Aluminum	1	1	1.0157	102	80 - 120	
Barium	1	1	1.0488	105	80 - 120	
Beryllium	1	1	1.0179	102	80 - 120	
Copper	1	1	1.0008	100	80 - 120	
Manganese	1	1	1.0098	101	80 - 120	
Vanadium	1	1	1.0372	104	80 - 120	
Zinc	1	1	0.9941	99	80 - 120	

Laboratory Control Sample / Laboratory Control Sample Duplicate

Analyte	Dil	Spike	LCS	% Rec	LCSD	% Rec	Control Limits	% Rec Qual	% RPD	Control Limits	RPD Qual
Aluminum	1	1	1.0036	100	1.0157	102	80 - 120		1	20	
Barium	1	1	1.0375	104	1.0488	105	80 - 120		1	20	
Beryllium	1	1	1.006	101	1.0179	102	80 - 120		1	20	
Copper	1	1	0.9926	99	1.0008	100	80 - 120		1	20	
Manganese	1	1	0.9943	99	1.0098	101	80 - 120		2	20	
Vanadium	1	1	1.0223	102	1.0372	104	80 - 120		1	20	
Zinc	1	1	0.9821	98	0.9941	99	80 - 120		1	20	

Parameters in bold text are reported in this SDG

12065 Lebanon Rd
Mt. Juliet, TN 37122
(615) 758-5858
(800) 767-5859
Fax (615) 758-5859
Tax I.D 62-0814289
Est. 1970

Quality Control Summary
SDG: L735181
URS Corporation - Tucson AZ - 1088308

Test:	Trace Metals by Method 6010B		
Project No:	23446543.0057AA	Matrix:	Water - mg/L
Project:	Holloman AFB	EPA ID:	TN00003
Collection Date:	11/20/2014	**Analytic Batch:**	**WG756740**
Analysis Date:	11/26/2014	Analyst:	388
Instrument ID:	ICP12	Prep Date:	11/25/2014
Sample Numbers:	L735181-03, -04, -06, -09		

Serial Dilution

L735318-09

Analyte	Dil	Sample Result	SD Result	% RPD	Limit	Qualifier
Aluminum,Dissolved	25	<0.175	<0.875		10	
Barium,Dissolved	25	0.0661	0.0631	5	10	
Beryllium,Dissolved	25	<0.0035	<0.0175		10	
Copper,Dissolved	25	<0.0265	<0.1325		10	
Manganese,Dissolved	25	0.0869	0.0879	1	10	
Vanadium,Dissolved	25	0.0624	0.1847	196	10	
Zinc,Dissolved	25	<0.0295	<0.1475		10	

Matrix Spike / Matrix Spike Duplicate

L735318-09

Analyte	Dil	Spike Value	Sample	MS	% Rec	MSD	% Rec	Control Limits	% Rec Qual	RPD	Control Limits	RPD Qual
Aluminum,Dissolved	5	0.2	<0.175	1.2421	124	0.8458	85	75 - 125		38	20	J3
Barium,Dissolved	5	0.2	0.0661	1.0532	99	1.0721	101	75 - 125		2	20	
Beryllium,Dissolved	5	0.2	<0.0035	1.0426	104	0.8926	89	75 - 125		16	20	
Copper,Dissolved	5	0.2	<0.0265	1.0622	106	0.9211	92	75 - 125		14	20	
Manganese,Dissolved	5	0.2	0.0869	1.0661	98	1.0041	92	75 - 125		6	20	
Vanadium,Dissolved	5	0.2	0.0624	1.1444	108	0.9689	91	75 - 125		17	20	
Zinc,Dissolved	5	0.2	<0.0295	0.9183	91	0.9396	93	75 - 125		2	20	

Parameters in bold text are reported in this SDG

12065 Lebanon Rd
Mt. Juliet, TN 37122
(615) 758-5858
(800) 767-5859
Fax (615) 758-5859
Tax I.D 62-0814289
Est. 1970

Quality Control Summary
SDG: L735181
URS Corporation - Tucson AZ - 1088308

Test:	Trace Metals by Method 6010B		
Project No:	23446543.0057AA	Matrix:	Water - mg/L
Project:	Holloman AFB	EPA ID:	TN00003
Collection Date:	11/20/2014	**Analytic Batch:**	**WG756740**
Analysis Date:	11/26/2014	Analyst:	388
Instrument ID:	ICP12	Prep Date:	11/25/2014
Sample Numbers:	L735181-03, -04, -06, -09		

Post Digest Spike

L735318-09

Analyte	Dil	Spike Value	Sample	Result	% Rec	Control Limits	Qualifier
Aluminum,Dissolved	5	1.12	<0.175	4.7425	85	75-125	
Barium,Dissolved	5	1.12	0.0661	5.5827	99	75-125	
Beryllium,Dissolved	5	1.12	<0.0035	5.2145	93	75-125	
Copper,Dissolved	5	1.12	<0.0265	5.3588	96	75-125	
Manganese,Dissolved	5	1.12	0.0869	5.5489	98	75-125	
Vanadium,Dissolved	5	1.12	0.0624	5.6008	99	75-125	
Zinc,Dissolved	5	1.12	<0.0295	5.3476	95	75-125	

Parameters in bold text are reported in this SDG

12065 Lebanon Rd
Mt. Juliet, TN 37122
(615) 758-5858
(800) 767-5859
Fax (615) 758-5859
Tax I.D 62-0814289
Est. 1970

Quality Control Summary
SDG: L735181
URS Corporation - Tucson AZ - 1088308

Test:	Trace Metals by Method 6010B		
Project No:	23446543.0057AA	Matrix:	Water - mg/L
Project:	Holloman AFB	EPA ID:	TN00003
Collection Date:	11/20/2014	**Analytic Batch:**	**WG756747**
Analysis Date:	11/28/2014	Analyst:	388
Instrument ID:	ICP12	Prep Date:	11/25/2014
Sample Numbers:	L735181-02, -05, -07, -08		

Serial Dilution

L734231-16

Analyte	Dil	Sample Result	SD Result	% RPD	Limit	Qualifier
Aluminum	25	9.7071	9.6241	1	10	
Barium	25	0.6596	0.6288	5	10	
Beryllium	25	<0.0035	<0.0175		10	
Copper	25	<0.0265	<0.1325		10	
Manganese	25	0.9040	0.8724	3	10	
Vanadium	25	0.0693	0.1742	151	10	
Zinc	25	0.0535	<0.1475	29	10	

Matrix Spike / Matrix Spike Duplicate

L734231-16

Analyte	Dil	Spike Value	Sample	MS	% Rec	MSD	% Rec	Control Limits	% Rec Qual	RPD	Control Limits	RPD Qual
Aluminum	5	0.2	9.7071	9.8248	12	11.054	135	75 - 125	V	12	20	
Barium	5	0.2	0.6596	1.6047	95	1.6333	97	75 - 125		2	20	
Beryllium	5	0.2	<0.0035	0.9194	92	0.9711	97	75 - 125		5	20	
Copper	5	0.2	<0.0265	0.9639	96	1.0054	100	75 - 125		4	20	
Manganese	5	0.2	0.9040	1.8031	90	1.8916	99	75 - 125		5	20	
Vanadium	5	0.2	0.0693	1.0144	95	1.0932	102	75 - 125		7	20	
Zinc	5	0.2	0.0535	1.0194	97	1.0305	98	75 - 125		1	20	

Parameters in bold text are reported in this SDG

12065 Lebanon Rd
Mt. Juliet, TN 37122
(615) 758-5858
(800) 767-5859
Fax (615) 758-5859
Tax I.D 62-0814289
Est. 1970

Quality Control Summary
SDG: L735181
URS Corporation - Tucson AZ - 1088308

Test:	Trace Metals by Method 6010B		
Project No:	23446543.0057AA	Matrix:	Water - mg/L
Project:	Holloman AFB	EPA ID:	TN00003
Collection Date:	11/20/2014	**Analytic Batch:**	**WG756747**
Analysis Date:	11/28/2014	Analyst:	388
Instrument ID:	ICP12	Prep Date:	11/25/2014
Sample Numbers:	L735181-02, -05, -07, -08		

Post Digest Spike

L734231-16

Analyte	Dil	Spike Value	Sample	Result	% Rec	Control Limits	Qualifier
Aluminum	5	1.12	9.7071	16.856	128	75-125	O1
Barium	5	1.12	0.6596	6.3413	101	75-125	
Beryllium	5	1.12	<0.0035	5.4410	97	75-125	
Copper	5	1.12	<0.0265	5.6088	100	75-125	
Manganese	5	1.12	0.9040	6.3971	98	75-125	
Vanadium	5	1.12	0.0693	5.7521	101	75-125	
Zinc	5	1.12	0.0535	5.4943	97	75-125	

Parameters in bold text are reported in this SDG

12065 Lebanon Rd
Mt. Juliet, TN 37122
(615) 758-5858
(800) 767-5859
Fax (615) 758-5859
Tax I.D 62-0814289
Est. 1970

Quality Control Summary
SDG: L735181
URS Corporation - Tucson AZ - 1088308

Test: Trace Metals by Method 6010B
Project No: 23446543.0057AA
Project: Holloman AFB EPA ID: TN00003
Collection Date: 11/20/2014
Instrument ID: ICP12

Standard Type: ICV
Analysis Date: 11/26/2014 7:42 AM
Analysis Time: 0742
Data File: 112614ICP12

Analyte	Conc.	True Value	Recovery	Limits
Aluminum	9.91	10	99 %	90-110
Barium	1.06	1	106 %	90-110
Beryllium	1.00	1	100 %	90-110
Copper	1.00	1	100 %	90-110
Manganese	1.01	1	101 %	90-110
Vanadium	1.01	1	101 %	90-110
Zinc	1.02	1	102 %	90-110

Standard Type: ICVLL
Analysis Date: 11/26/2014 7:51 AM
Analysis Time: 0751
Data File: 112614ICP12

Analyte	Conc.
Aluminum	0.0790
Barium	0.0054
Beryllium	0.0019
Copper	0.0187
Manganese	0.0103
Vanadium	0.0067
Zinc	0.0296

*** - calibrated by linear regression*

12065 Lebanon Rd
Mt. Juliet, TN 37122
(615) 758-5858
(800) 767-5859
Fax (615) 758-5859
Tax I.D 62-0814289
Est. 1970

Quality Control Summary
SDG: L735181
URS Corporation - Tucson AZ - 1088308

Test: Trace Metals by Method 6010B
Project No: 23446543.0057AA
Project: Holloman AFB EPA ID: TN00003
Collection Date: 11/20/2014
Instrument ID: ICP12

Standard Type: ICV
Analysis Date: 11/26/2014 12:49 PM
Analysis Time: 1249
Data File: 112614ICP12

Analyte	Conc.	True Value	Recovery	Limits
Aluminum	10.0	10	100 %	90-110
Barium	1.05	1	105 %	90-110
Beryllium	1.01	1	101 %	90-110
Copper	1.02	1	102 %	90-110
Manganese	0.999	1	100 %	90-110
Vanadium	1.03	1	103 %	90-110
Zinc	0.990	1	99 %	90-110

Standard Type: ICVLL
Analysis Date: 11/26/2014 1:01 PM
Analysis Time: 1301
Data File: 112614ICP12

Analyte	Conc.
Aluminum	0.124
Barium	0.0051
Beryllium	0.0018
Copper	0.0183
Manganese	0.0094
Vanadium	0.0123
Zinc	0.0280

*** - calibrated by linear regression*

12065 Lebanon Rd
Mt. Juliet, TN 37122
(615) 758-5858
(800) 767-5859
Fax (615) 758-5859
Tax I.D 62-0814289
Est. 1970

Quality Control Summary
SDG: L735181
URS Corporation - Tucson AZ - 1088308

Test: Trace Metals by Method 6010B
Project No: 23446543.0057AA
Project: Holloman AFB EPA ID: TN00003
Collection Date: 11/20/2014
Instrument ID: ICP12

Standard Type: CCV
Analysis Date: 11/26/2014 3:12 PM
Analysis Time: 1512
Data File: 112614ICP12

Analyte	Conc.	True Value	Recovery	Limits
Aluminum	9.68	10	97 %	90-110
Barium	0.508	0.5	102 %	90-110
Beryllium	0.195	0.2	97 %	90-110
Copper	1.98	2	99 %	90-110
Manganese	0.977	1	98 %	90-110
Vanadium	0.983	1	98 %	90-110
Zinc	2.86	3	95 %	90-110

Standard Type: CCV
Analysis Date: 11/26/2014 4:03 PM
Analysis Time: 1603
Data File: 112614ICP12

Analyte	Conc.	True Value	Recovery	Limits
Aluminum	9.69	10	97 %	90-110
Barium	0.504	0.5	101 %	90-110
Beryllium	0.196	0.2	98 %	90-110
Copper	1.99	2	100 %	90-110
Manganese	0.993	1	99 %	90-110
Vanadium	0.992	1	99 %	90-110
Zinc	2.85	3	95 %	90-110

*** - calibrated by linear regression*

12065 Lebanon Rd
Mt. Juliet, TN 37122
(615) 758-5858
(800) 767-5859
Fax (615) 758-5859
Tax I.D 62-0814289
Est. 1970

Quality Control Summary
SDG: L735181
URS Corporation - Tucson AZ - 1088308

Test: Trace Metals by Method 6010B
Project No: 23446543.0057AA
Project: Holloman AFB EPA ID: TN00003
Collection Date: 11/20/2014
Instrument ID: ICP12

Standard Type: CCV
Analysis Date: 11/26/2014 5:18 PM
Analysis Time: 1718
Data File: 112614ICP12

Analyte	Conc.	True Value	Recovery	Limits
Aluminum	9.23	10	92 %	90-110
Barium	0.506	0.5	101 %	90-110
Beryllium	0.188	0.2	94 %	90-110
Copper	1.95	2	98 %	90-110
Manganese	1.02	1	102 %	90-110
Vanadium	0.980	1	98 %	90-110
Zinc	2.92	3	97 %	90-110

Standard Type: CCV
Analysis Date: 11/26/2014 6:16 PM
Analysis Time: 1816
Data File: 112614ICP12

Analyte	Conc.	True Value	Recovery	Limits
Aluminum	9.34	10	93 %	90-110
Barium	0.502	0.5	100 %	90-110
Beryllium	0.189	0.2	94 %	90-110
Copper	1.93	2	96 %	90-110
Manganese	1.02	1	102 %	90-110
Vanadium	0.977	1	98 %	90-110
Zinc	2.96	3	99 %	90-110

*** - calibrated by linear regression*

12065 Lebanon Rd
Mt. Juliet, TN 37122
(615) 758-5858
(800) 767-5859
Fax (615) 758-5859
Tax I.D 62-0814289
Est. 1970

Quality Control Summary
SDG: L735181
URS Corporation - Tucson AZ - 1088308

Test: Trace Metals by Method 6010B
Project No: 23446543.0057AA
Project: Holloman AFB EPA ID: TN00003
Collection Date: 11/20/2014
Instrument ID: ICP12

Standard Type: CCVLL
Analysis Date: 11/26/2014 6:25 PM
Analysis Time: 1825
Data File: 112614ICP12

Analyte	Conc.
Aluminum	0.176
Barium	0.0053
Beryllium	0.0018
Copper	0.0198
Manganese	0.0118
Vanadium	0.0136
Zinc	0.0310

*** - calibrated by linear regression*

12065 Lebanon Rd
Mt. Juliet, TN 37122
(615) 758-5858
(800) 767-5859
Fax (615) 758-5859
Tax I.D 62-0814289
Est. 1970

Quality Control Summary
SDG: L735181
URS Corporation - Tucson AZ - 1088308

Test: Trace Metals by Method 6010B
Project No: 23446543.0057AA
Project: Holloman AFB EPA ID: TN00003
Collection Date: 11/20/2014
Instrument ID: ICP12

Standard Type: ICV
Analysis Date: 11/28/2014 3:03 PM
Analysis Time: 1503
Data File: 112814ICP12 B

Analyte	Conc.	True Value	Recovery	Limits
Aluminum	10.6	10	106 %	90-110
Barium	1.10	1	110 %	90-110
Beryllium	1.06	1	106 %	90-110
Copper	1.05	1	105 %	90-110
Manganese	1.07	1	107 %	90-110
Vanadium	1.07	1	107 %	90-110
Zinc	1.06	1	106 %	90-110

Standard Type: ICVLL
Analysis Date: 11/28/2014 3:12 PM
Analysis Time: 1512
Data File: 112814ICP12 B

Analyte	Conc.
Aluminum	0.120
Barium	0.0058
Beryllium	0.0019
Copper	0.0229
Manganese	0.0104
Vanadium	0.0108
Zinc	0.0312

*** - calibrated by linear regression*

12065 Lebanon Rd
Mt. Juliet, TN 37122
(615) 758-5858
(800) 767-5859
Fax (615) 758-5859
Tax I.D 62-0814289
Est. 1970

Quality Control Summary
SDG: L735181
URS Corporation - Tucson AZ - 1088308

Test: Trace Metals by Method 6010B
Project No: 23446543.0057AA
Project: Holloman AFB EPA ID: TN00003
Collection Date: 11/20/2014
Instrument ID: ICP12

Standard Type: CCV
Analysis Date: 11/28/2014 4:10 PM
Analysis Time: 1610
Data File: 112814ICP12 B

Analyte	Conc.	True Value	Recovery	Limits
Aluminum	9.68	10	97 %	90-110
Barium	0.508	0.5	102 %	90-110
Beryllium	0.195	0.2	97 %	90-110
Copper	1.92	2	96 %	90-110
Manganese	1.01	1	101 %	90-110
Vanadium	0.985	1	98 %	90-110
Zinc	2.97	3	99 %	90-110

Standard Type: CCV
Analysis Date: 11/28/2014 5:04 PM
Analysis Time: 1704
Data File: 112814ICP12 B

Analyte	Conc.	True Value	Recovery	Limits
Aluminum	9.86	10	99 %	90-110
Barium	0.513	0.5	103 %	90-110
Beryllium	0.198	0.2	99 %	90-110
Copper	1.95	2	98 %	90-110
Manganese	1.04	1	104 %	90-110
Vanadium	1.01	1	101 %	90-110
Zinc	3.05	3	102 %	90-110

*** - calibrated by linear regression*

12065 Lebanon Rd
Mt. Juliet, TN 37122
(615) 758-5858
(800) 767-5859
Fax (615) 758-5859
Tax I.D 62-0814289
Est. 1970

YOUR LAB OF CHOICE

Quality Control Summary
SDG: L735181
URS Corporation - Tucson AZ - 1088308

Test: Trace Metals by Method 6010B
Project No: 23446543.0057AA
Project: Holloman AFB EPA ID: TN00003
Collection Date: 11/20/2014
Instrument ID: ICP12

Standard Type: CCVLL
Analysis Date: 11/28/2014 8:09 PM
Analysis Time: 2009
Data File: 112814ICP12 B

Analyte	Conc.
Aluminum	0.0734
Barium	0.0053
Beryllium	0.0019
Copper	0.0232
Manganese	0.0107
Vanadium	0.0111
Zinc	0.0306

*** - calibrated by linear regression*

12065 Lebanon Rd
Mt. Juliet, TN 37122
(615) 758-5858
(800) 767-5859
Fax (615) 758-5859
Tax I.D 62-0814289
Est. 1970

Quality Control Summary
SDG: L735181
URS Corporation - Tucson AZ - 1088308

Test: Trace Metals by Method 6010B
Project No: 23446543.0057AA
Project: Holloman AFB EPA ID: TN00003
Collection Date: 11/20/2014
Instrument ID: ICP12

Standard Type: ICB
Analysis Date: 11/26/2014 7:47 AM
Analysis Time: 0747
Data File: 112614ICP12

Analyte	MDL	Conc	Filename
Aluminum	0.035	< 0.035	112614ICP12
Barium	0.0017	< 0.0017	112614ICP12
Beryllium	0.0007	< 0.0007	112614ICP12
Copper	0.0053	< 0.0053	112614ICP12
Manganese	0.0012	< 0.0012	112614ICP12
Vanadium	0.0024	0.00260	112614ICP12
Zinc	0.0059	< 0.0059	112614ICP12

Standard Type: ICB
Analysis Date: 11/26/2014 12:57 PM
Analysis Time: 1257
Data File: 112614ICP12

Analyte	MDL	Conc	Filename
Aluminum	0.035	< 0.035	112614ICP12
Barium	0.0017	< 0.0017	112614ICP12
Beryllium	0.0007	< 0.0007	112614ICP12
Copper	0.0053	< 0.0053	112614ICP12
Manganese	0.0012	< 0.0012	112614ICP12
Vanadium	0.0024	0.00271	112614ICP12
Zinc	0.0059	< 0.0059	112614ICP12

*** - calibrated by linear regression*

12065 Lebanon Rd
Mt. Juliet, TN 37122
(615) 758-5858
(800) 767-5859
Fax (615) 758-5859
Tax I.D 62-0814289
Est. 1970

Quality Control Summary
SDG: L735181
URS Corporation - Tucson AZ - 1088308

Test: Trace Metals by Method 6010B
Project No: 23446543.0057AA
Project: Holloman AFB EPA ID: TN00003
Collection Date: 11/20/2014
Instrument ID: ICP12

Standard Type: CCB
Analysis Date: 11/26/2014 3:16 PM
Analysis Time: 1516
Data File: 112614ICP12

Analyte	MDL	Conc	Filename
Aluminum	0.035	< 0.035	112614ICP12
Barium	0.0017	< 0.0017	112614ICP12
Beryllium	0.0007	< 0.0007	112614ICP12
Copper	0.0053	< 0.0053	112614ICP12
Manganese	0.0012	< 0.0012	112614ICP12
Vanadium	0.0024	0.00384	112614ICP12
Zinc	0.0059	< 0.0059	112614ICP12

Standard Type: CCB
Analysis Date: 11/26/2014 4:08 PM
Analysis Time: 1608
Data File: 112614ICP12

Analyte	MDL	Conc	Filename
Aluminum	0.035	0.0485	112614ICP12
Barium	0.0017	< 0.0017	112614ICP12
Beryllium	0.0007	< 0.0007	112614ICP12
Copper	0.0053	< 0.0053	112614ICP12
Manganese	0.0012	< 0.0012	112614ICP12
Vanadium	0.0024	0.00325	112614ICP12
Zinc	0.0059	< 0.0059	112614ICP12

*** - calibrated by linear regression*

12065 Lebanon Rd
Mt. Juliet, TN 37122
(615) 758-5858
(800) 767-5859
Fax (615) 758-5859
Tax I.D 62-0814289
Est. 1970

Quality Control Summary
SDG: L735181
URS Corporation - Tucson AZ - 1088308

Test: Trace Metals by Method 6010B
Project No: 23446543.0057AA
Project: Holloman AFB EPA ID: TN00003
Collection Date: 11/20/2014
Instrument ID: ICP12

Standard Type: CCB
Analysis Date: 11/26/2014 5:22 PM
Analysis Time: 1722
Data File: 112614ICP12

Analyte	MDL	Conc	Filename
Aluminum	0.035	< 0.035	112614ICP12
Barium	0.0017	< 0.0017	112614ICP12
Beryllium	0.0007	< 0.0007	112614ICP12
Copper	0.0053	< 0.0053	112614ICP12
Manganese	0.0012	< 0.0012	112614ICP12
Vanadium	0.0024	0.00548	112614ICP12
Zinc	0.0059	< 0.0059	112614ICP12

Standard Type: CCB
Analysis Date: 11/26/2014 6:20 PM
Analysis Time: 1820
Data File: 112614ICP12

Analyte	MDL	Conc	Filename
Aluminum	0.035	< 0.035	112614ICP12
Barium	0.0017	< 0.0017	112614ICP12
Beryllium	0.0007	< 0.0007	112614ICP12
Copper	0.0053	< 0.0053	112614ICP12
Manganese	0.0012	< 0.0012	112614ICP12
Vanadium	0.0024	0.00512	112614ICP12
Zinc	0.0059	< 0.0059	112614ICP12

*** - calibrated by linear regression*

12065 Lebanon Rd
Mt. Juliet, TN 37122
(615) 758-5858
(800) 767-5859
Fax (615) 758-5859
Tax I.D 62-0814289
Est. 1970

Quality Control Summary
SDG: L735181
URS Corporation - Tucson AZ - 1088308

Test: Trace Metals by Method 6010B
Project No: 23446543.0057AA
Project: Holloman AFB EPA ID: TN00003
Collection Date: 11/20/2014
Instrument ID: ICP12

Standard Type: ICB
Analysis Date: 11/28/2014 3:07 PM
Analysis Time: 1507
Data File: 112814ICP12 B

Analyte	MDL	Conc	Filename
Aluminum	0.035	< 0.035	112814ICP12 B
Barium	0.0017	< 0.0017	112814ICP12 B
Beryllium	0.0007	< 0.0007	112814ICP12 B
Copper	0.0053	< 0.0053	112814ICP12 B
Manganese	0.0012	< 0.0012	112814ICP12 B
Vanadium	0.0024	0.00417	112814ICP12 B
Zinc	0.0059	< 0.0059	112814ICP12 B

Standard Type: CCB
Analysis Date: 11/28/2014 4:14 PM
Analysis Time: 1614
Data File: 112814ICP12 B

Analyte	MDL	Conc	Filename
Aluminum	0.035	< 0.035	112814ICP12 B
Barium	0.0017	< 0.0017	112814ICP12 B
Beryllium	0.0007	< 0.0007	112814ICP12 B
Copper	0.0053	< 0.0053	112814ICP12 B
Manganese	0.0012	< 0.0012	112814ICP12 B
Vanadium	0.0024	< 0.0024	112814ICP12 B
Zinc	0.0059	< 0.0059	112814ICP12 B

*** - calibrated by linear regression*

12065 Lebanon Rd
Mt. Juliet, TN 37122
(615) 758-5858
(800) 767-5859
Fax (615) 758-5859
Tax I.D 62-0814289
Est. 1970

Quality Control Summary
SDG: L735181
URS Corporation - Tucson AZ - 1088308

Test: Trace Metals by Method 6010B
Project No: 23446543.0057AA
Project: Holloman AFB EPA ID: TN00003
Collection Date: 11/20/2014
Instrument ID: ICP12

Standard Type: CCB
Analysis Date: 11/28/2014 5:08 PM
Analysis Time: 1708
Data File: 112814ICP12 B

Analyte	MDL	Conc	Filename
Aluminum	0.035	< 0.035	112814ICP12 B
Barium	0.0017	< 0.0017	112814ICP12 B
Beryllium	0.0007	< 0.0007	112814ICP12 B
Copper	0.0053	< 0.0053	112814ICP12 B
Manganese	0.0012	< 0.0012	112814ICP12 B
Vanadium	0.0024	0.00306	112814ICP12 B
Zinc	0.0059	< 0.0059	112814ICP12 B

*** - calibrated by linear regression*

12065 Lebanon Rd
Mt. Juliet, TN 37122
(615) 758-5858
(800) 767-5859
Fax (615) 758-5859
Tax I.D 62-0814289
Est. 1970

Quality Control Summary
SDG: L735181
URS Corporation - Tucson AZ - 1088308

Test: Trace Metals by Method 6010B
Project No: 23446543.0057AA
Project: Holloman AFB EPA ID: TN00003
Collection Date: 11/20/2014
Instrument ID: ICP12

Standard Type : ICSA
Analysis Date: 11/26/2014 7:55 AM
Analysis Time: 0755
Data File: 112614ICP12

Analyte	Conc.	True Value	Recovery	Limits
SILVER	-0.0003	0		80 - 120
ALUMINUM	499	500	100 %	80 - 120
ARSENIC	-0.0027	0		80 - 120
BORON	0.0065	0		80 - 120
BARIUM	0.0027	0		80 - 120
BERYLLIUM	0.0001	0		80 - 120
CALCIUM	498	500	100 %	80 - 120
CADMIUM	-0.0013	0		80 - 120
COBALT	0.0012	0		80 - 120
CHROMIUM	0.0017	0		80 - 120
COPPER	0.0042	0		80 - 120
IRON	201	200	100 %	80 - 120
POTASSIUM	0.0499	0		80 - 120
LITHIUM	0.0044	0		80 - 120
MAGNESIUM	512	500	102 %	80 - 120
MANGANESE	-0.0042	0		80 - 120
MOLYBDENUM	-0.0020	0		80 - 120
SODIUM	0.0608	0		80 - 120
NICKEL	-0.0131	0		80 - 120
LEAD	-0.0267	0		80 - 120
SULFUR	0.0019	0		80 - 120
ANTIMONY	-0.0052	0		80 - 120
SELENIUM	0.0195	0		80 - 120
SILICON	-0.0320	0		80 - 120
TIN	0.0001	0		80 - 120
STRONTIUM	0.0075	0		80 - 120
TITANIUM	-0.0012	0		80 - 120
THALLIUM	-0.0075	0		80 - 120
VANADIUM	0.0102	0		80 - 120
ZINC	0.0032	0		80 - 120

*** - calibrated by linear regression*

12065 Lebanon Rd
Mt. Juliet, TN 37122
(615) 758-5858
(800) 767-5859
Fax (615) 758-5859
Tax I.D 62-0814289
Est. 1970

Quality Control Summary
SDG: L735181
URS Corporation - Tucson AZ - 1088308

Test: Trace Metals by Method 6010B
Project No: 23446543.0057AA
Project: Holloman AFB EPA ID: TN00003
Collection Date: 11/20/2014
Instrument ID: ICP12

Standard Type : ICSAB
Analysis Date: 11/26/2014 8:00 AM
Analysis Time: 0800
Data File: 112614ICP12

Analyte	Conc.	True Value	Recovery	Limits
SILVER	1.10	1.00	110 %	80 - 120
ALUMINUM	498	500	100 %	80 - 120
ARSENIC	0.503	0.500	101 %	80 - 120
BORON	0.981	1.00	98 %	80 - 120
BARIUM	0.480	0.500	96 %	80 - 120
BERYLLIUM	0.481	0.500	96 %	80 - 120
CALCIUM	499	500	100 %	80 - 120
CADMIUM	1.04	1.00	104 %	80 - 120
COBALT	0.494	0.500	99 %	80 - 120
CHROMIUM	0.458	0.500	92 %	80 - 120
COPPER	0.491	0.500	98 %	80 - 120
IRON	202	200	101 %	80 - 120
POTASSIUM	0.0340	0		80 - 120
LITHIUM	0.0043	0		80 - 120
MAGNESIUM	514	500	103 %	80 - 120
MANGANESE	0.452	0.500	90 %	80 - 120
MOLYBDENUM	0.458	0.500	92 %	80 - 120
SODIUM	0.0590	0		80 - 120
NICKEL	0.958	1.00	96 %	80 - 120
LEAD	0.941	1.00	94 %	80 - 120
SULFUR	-0.0012	0		80 - 120
ANTIMONY	0.512	0.500	102 %	80 - 120
SELENIUM	0.541	0.500	108 %	80 - 120
SILICON	0.996	1.00	100 %	80 - 120
TIN	0.490	0.500	98 %	80 - 120
STRONTIUM	0.0074	0		80 - 120
TITANIUM	0.472	0.500	94 %	80 - 120
THALLIUM	0.458	0.500	92 %	80 - 120
VANADIUM	0.472	0.500	94 %	80 - 120
ZINC	0.884	1.00	88 %	80 - 120

*** - calibrated by linear regression*

12065 Lebanon Rd
Mt. Juliet, TN 37122
(615) 758-5858
(800) 767-5859
Fax (615) 758-5859
Tax I.D 62-0814289
Est. 1970

Quality Control Summary
SDG: L735181
URS Corporation - Tucson AZ - 1088308

Test: Trace Metals by Method 6010B
Project No: 23446543.0057AA
Project: Holloman AFB EPA ID: TN00003
Collection Date: 11/20/2014
Instrument ID: ICP12

Standard Type : ICSA
Analysis Date: 11/26/2014 1:06 PM
Analysis Time: 1306
Data File: 112614ICP12

Analyte	Conc.	True Value	Recovery	Limits
SILVER	-0.0010	0		80 - 120
ALUMINUM	495	500	99 %	80 - 120
ARSENIC	-0.0056	0		80 - 120
BORON	0.0048	0		80 - 120
BARIUM	0.0025	0		80 - 120
BERYLLIUM	0.0000	0		80 - 120
CALCIUM	499	500	100 %	80 - 120
CADMIUM	-0.0009	0		80 - 120
COBALT	0.0009	0		80 - 120
CHROMIUM	0.0017	0		80 - 120
COPPER	0.0023	0		80 - 120
IRON	201	200	100 %	80 - 120
POTASSIUM	0.0428	0		80 - 120
LITHIUM	0.0045	0		80 - 120
MAGNESIUM	513	500	103 %	80 - 120
MANGANESE	-0.0042	0		80 - 120
MOLYBDENUM	-0.0019	0		80 - 120
SODIUM	0.0588	0		80 - 120
NICKEL	-0.0132	0		80 - 120
LEAD	-0.0302	0		80 - 120
SULFUR	-0.0053	0		80 - 120
ANTIMONY	-0.0067	0		80 - 120
SELENIUM	0.0203	0		80 - 120
SILICON	0.0020	0		80 - 120
TIN	0.0014	0		80 - 120
STRONTIUM	0.0076	0		80 - 120
TITANIUM	-0.0008	0		80 - 120
THALLIUM	-0.0091	0		80 - 120
VANADIUM	0.0094	0		80 - 120
ZINC	0.0038	0		80 - 120

*** - calibrated by linear regression*

12065 Lebanon Rd
Mt. Juliet, TN 37122
(615) 758-5858
(800) 767-5859
Fax (615) 758-5859
Tax I.D 62-0814289
Est. 1970

Quality Control Summary
SDG: L735181
URS Corporation - Tucson AZ - 1088308

Test: Trace Metals by Method 6010B
Project No: 23446543.0057AA
Project: Holloman AFB EPA ID: TN00003
Collection Date: 11/20/2014
Instrument ID: ICP12

Standard Type : ICSAB
Analysis Date: 11/26/2014 1:10 PM
Analysis Time: 1310
Data File: 112614ICP12

Analyte	Conc.	True Value	Recovery	Limits
SILVER	1.14	1.00	114 %	80 - 120
ALUMINUM	490	500	98 %	80 - 120
ARSENIC	0.510	0.500	102 %	80 - 120
BORON	0.979	1.00	98 %	80 - 120
BARIUM	0.479	0.500	96 %	80 - 120
BERYLLIUM	0.470	0.500	94 %	80 - 120
CALCIUM	493	500	99 %	80 - 120
CADMIUM	1.07	1.00	107 %	80 - 120
COBALT	0.485	0.500	97 %	80 - 120
CHROMIUM	0.452	0.500	90 %	80 - 120
COPPER	0.496	0.500	99 %	80 - 120
IRON	199	200	100 %	80 - 120
POTASSIUM	0.0438	0		80 - 120
LITHIUM	0.0044	0		80 - 120
MAGNESIUM	507	500	101 %	80 - 120
MANGANESE	0.447	0.500	89 %	80 - 120
MOLYBDENUM	0.467	0.500	93 %	80 - 120
SODIUM	0.0554	0		80 - 120
NICKEL	0.944	1.00	94 %	80 - 120
LEAD	0.938	1.00	94 %	80 - 120
SULFUR	0.0007	0		80 - 120
ANTIMONY	0.527	0.500	105 %	80 - 120
SELENIUM	0.536	0.500	107 %	80 - 120
SILICON	1.04	1.00	104 %	80 - 120
TIN	0.483	0.500	97 %	80 - 120
STRONTIUM	0.0077	0		80 - 120
TITANIUM	0.475	0.500	95 %	80 - 120
THALLIUM	0.459	0.500	92 %	80 - 120
VANADIUM	0.466	0.500	93 %	80 - 120
ZINC	0.863	1.00	86 %	80 - 120

*** - calibrated by linear regression*

12065 Lebanon Rd
Mt. Juliet, TN 37122
(615) 758-5858
(800) 767-5859
Fax (615) 758-5859
Tax I.D 62-0814289
Est. 1970

Quality Control Summary
SDG: L735181
URS Corporation - Tucson AZ - 1088308

Test: Trace Metals by Method 6010B
Project No: 23446543.0057AA
Project: Holloman AFB EPA ID: TN00003
Collection Date: 11/20/2014
Instrument ID: ICP12

Standard Type : ICSA
Analysis Date: 11/26/2014 6:29 PM
Analysis Time: 1829
Data File: 112614ICP12

Analyte	Conc.	True Value	Recovery	Limits
SILVER	-0.0004	0		80 - 120
ALUMINUM	488	500	98 %	80 - 120
ARSENIC	-0.0067	0		80 - 120
BORON	0.0023	0		80 - 120
BARIUM	0.0025	0		80 - 120
BERYLLIUM	0.0000	0		80 - 120
CALCIUM	498	500	100 %	80 - 120
CADMIUM	-0.0008	0		80 - 120
COBALT	0.0012	0		80 - 120
CHROMIUM	0.0019	0		80 - 120
COPPER	-0.0002	0		80 - 120
IRON	201	200	100 %	80 - 120
POTASSIUM	0.0232	0		80 - 120
LITHIUM	0.0043	0		80 - 120
MAGNESIUM	512	500	102 %	80 - 120
MANGANESE	-0.0043	0		80 - 120
MOLYBDENUM	-0.0022	0		80 - 120
SODIUM	0.0446	0		80 - 120
NICKEL	-0.0123	0		80 - 120
LEAD	-0.0304	0		80 - 120
SULFUR	0.0065	0		80 - 120
ANTIMONY	-0.0079	0		80 - 120
SELENIUM	0.0200	0		80 - 120
SILICON	0.0009	0		80 - 120
TIN	0.0013	0		80 - 120
STRONTIUM	0.0077	0		80 - 120
TITANIUM	-0.0014	0		80 - 120
THALLIUM	-0.0064	0		80 - 120
VANADIUM	0.0115	0		80 - 120
ZINC	0.0038	0		80 - 120

*** - calibrated by linear regression*

12065 Lebanon Rd
Mt. Juliet, TN 37122
(615) 758-5858
(800) 767-5859
Fax (615) 758-5859
Tax I.D 62-0814289
Est. 1970

Quality Control Summary
SDG: L735181
URS Corporation - Tucson AZ - 1088308

Test: Trace Metals by Method 6010B
Project No: 23446543.0057AA
Project: Holloman AFB EPA ID: TN00003
Collection Date: 11/20/2014
Instrument ID: ICP12

Standard Type : ICSAB
Analysis Date: 11/26/2014 6:33 PM
Analysis Time: 1833
Data File: 112614ICP12

Analyte	Conc.	True Value	Recovery	Limits
SILVER	1.15	1.00	115 %	80 - 120
ALUMINUM	486	500	97 %	80 - 120
ARSENIC	0.507	0.500	101 %	80 - 120
BORON	0.982	1.00	98 %	80 - 120
BARIUM	0.480	0.500	96 %	80 - 120
BERYLLIUM	0.468	0.500	94 %	80 - 120
CALCIUM	494	500	99 %	80 - 120
CADMIUM	1.08	1.00	108 %	80 - 120
COBALT	0.487	0.500	97 %	80 - 120
CHROMIUM	0.457	0.500	91 %	80 - 120
COPPER	0.496	0.500	99 %	80 - 120
IRON	199	200	100 %	80 - 120
POTASSIUM	0.0347	0		80 - 120
LITHIUM	0.0047	0		80 - 120
MAGNESIUM	510	500	102 %	80 - 120
MANGANESE	0.457	0.500	91 %	80 - 120
MOLYBDENUM	0.467	0.500	93 %	80 - 120
SODIUM	0.0410	0		80 - 120
NICKEL	0.955	1.00	95 %	80 - 120
LEAD	0.951	1.00	95 %	80 - 120
SULFUR	0.0037	0		80 - 120
ANTIMONY	0.520	0.500	104 %	80 - 120
SELENIUM	0.541	0.500	108 %	80 - 120
SILICON	1.05	1.00	105 %	80 - 120
TIN	0.487	0.500	97 %	80 - 120
STRONTIUM	0.0077	0		80 - 120
TITANIUM	0.475	0.500	95 %	80 - 120
THALLIUM	0.461	0.500	92 %	80 - 120
VANADIUM	0.477	0.500	95 %	80 - 120
ZINC	0.872	1.00	87 %	80 - 120

*** - calibrated by linear regression*

12065 Lebanon Rd
Mt. Juliet, TN 37122
(615) 758-5858
(800) 767-5859
Fax (615) 758-5859
Tax I.D 62-0814289
Est. 1970

Quality Control Summary
SDG: L735181
URS Corporation - Tucson AZ - 1088308

Test: Trace Metals by Method 6010B
Project No: 23446543.0057AA
Project: Holloman AFB EPA ID: TN00003
Collection Date: 11/20/2014
Instrument ID: ICP12

Standard Type : ICSA
Analysis Date: 11/28/2014 3:16 PM
Analysis Time: 1516
Data File: 112814ICP12 B

Analyte	Conc.	True Value	Recovery	Limits
SILVER	-0.0008	0		80 - 120
ALUMINUM	498	500	100 %	80 - 120
ARSENIC	-0.0242	0		80 - 120
BORON	0.0040	0		80 - 120
BARIUM	0.0024	0		80 - 120
BERYLLIUM	0.0000	0		80 - 120
CALCIUM	500	500	100 %	80 - 120
CADMIUM	-0.0030	0		80 - 120
COBALT	0.0015	0		80 - 120
CHROMIUM	0.0016	0		80 - 120
COPPER	0.0064	0		80 - 120
IRON	200	200	100 %	80 - 120
POTASSIUM	0.0667	0		80 - 120
LITHIUM	0.0036	0		80 - 120
MAGNESIUM	511	500	102 %	80 - 120
MANGANESE	-0.0047	0		80 - 120
MOLYBDENUM	-0.0002	0		80 - 120
SODIUM	0.0529	0		80 - 120
NICKEL	-0.0187	0		80 - 120
LEAD	-0.0248	0		80 - 120
SULFUR	-0.0106	0		80 - 120
ANTIMONY	-0.0032	0		80 - 120
SELENIUM	0.0074	0		80 - 120
SILICON	-0.0097	0		80 - 120
TIN	-0.0002	0		80 - 120
STRONTIUM	0.0075	0		80 - 120
TITANIUM	-0.0004	0		80 - 120
THALLIUM	0.0042	0		80 - 120
VANADIUM	0.0076	0		80 - 120
ZINC	0.0062	0		80 - 120

*** - calibrated by linear regression*

12065 Lebanon Rd
Mt. Juliet, TN 37122
(615) 758-5858
(800) 767-5859
Fax (615) 758-5859
Tax I.D 62-0814289
Est. 1970

Quality Control Summary
SDG: L735181
URS Corporation - Tucson AZ - 1088308

Test: Trace Metals by Method 6010B
Project No: 23446543.0057AA
Project: Holloman AFB EPA ID: TN00003
Collection Date: 11/20/2014
Instrument ID: ICP12

Standard Type : ICSAB
Analysis Date: 11/28/2014 3:20 PM
Analysis Time: 1520
Data File: 112814ICP12 B

Analyte	Conc.	True Value	Recovery	Limits
SILVER	1.12	1.00	112 %	80 - 120
ALUMINUM	497	500	99 %	80 - 120
ARSENIC	0.487	0.500	97 %	80 - 120
BORON	0.965	1.00	96 %	80 - 120
BARIUM	0.488	0.500	98 %	80 - 120
BERYLLIUM	0.477	0.500	95 %	80 - 120
CALCIUM	501	500	100 %	80 - 120
CADMIUM	1.05	1.00	105 %	80 - 120
COBALT	0.495	0.500	99 %	80 - 120
CHROMIUM	0.467	0.500	93 %	80 - 120
COPPER	0.491	0.500	98 %	80 - 120
IRON	200	200	100 %	80 - 120
POTASSIUM	0.0486	0		80 - 120
LITHIUM	0.0036	0		80 - 120
MAGNESIUM	512	500	102 %	80 - 120
MANGANESE	0.462	0.500	92 %	80 - 120
MOLYBDENUM	0.462	0.500	92 %	80 - 120
SODIUM	0.0486	0		80 - 120
NICKEL	0.962	1.00	96 %	80 - 120
LEAD	0.950	1.00	95 %	80 - 120
SULFUR	-0.0108	0		80 - 120
ANTIMONY	0.513	0.500	103 %	80 - 120
SELENIUM	0.522	0.500	104 %	80 - 120
SILICON	1.01	1.00	101 %	80 - 120
TIN	0.495	0.500	99 %	80 - 120
STRONTIUM	0.0076	0		80 - 120
TITANIUM	0.477	0.500	95 %	80 - 120
THALLIUM	0.469	0.500	94 %	80 - 120
VANADIUM	0.473	0.500	95 %	80 - 120
ZINC	0.901	1.00	90 %	80 - 120

*** - calibrated by linear regression*

12065 Lebanon Rd
Mt. Juliet, TN 37122
(615) 758-5858
(800) 767-5859
Fax (615) 758-5859
Tax I.D 62-0814289
Est. 1970

Quality Control Summary
SDG: L735181
URS Corporation - Tucson AZ - 1088308

Test: Trace Metals by Method 6010B
Project No: 23446543.0057AA
Project: Holloman AFB EPA ID: TN00003
Collection Date: 11/20/2014
Instrument ID: ICP12

Standard Type : ICSA
Analysis Date: 11/28/2014 8:13 PM
Analysis Time: 2013
Data File: 112814ICP12 B

Analyte	Conc.	True Value	Recovery	Limits
SILVER	-0.0014	0		80 - 120
ALUMINUM	474	500	95 %	80 - 120
ARSENIC	-0.0222	0		80 - 120
BORON	-0.0005	0		80 - 120
BARIUM	0.0024	0		80 - 120
BERYLLIUM	0.0001	0		80 - 120
CALCIUM	495	500	99 %	80 - 120
CADMIUM	-0.0029	0		80 - 120
COBALT	0.0011	0		80 - 120
CHROMIUM	0.0012	0		80 - 120
COPPER	0.0029	0		80 - 120
IRON	198	200	99 %	80 - 120
POTASSIUM	0.0341	0		80 - 120
LITHIUM	0.0038	0		80 - 120
MAGNESIUM	511	500	102 %	80 - 120
MANGANESE	-0.0046	0		80 - 120
MOLYBDENUM	-0.0004	0		80 - 120
SODIUM	0.0311	0		80 - 120
NICKEL	-0.0191	0		80 - 120
LEAD	-0.0234	0		80 - 120
SULFUR	0.0056	0		80 - 120
ANTIMONY	-0.0060	0		80 - 120
SELENIUM	0.0061	0		80 - 120
SILICON	-0.0129	0		80 - 120
TIN	0.0001	0		80 - 120
STRONTIUM	0.0073	0		80 - 120
TITANIUM	-0.0011	0		80 - 120
THALLIUM	0.0022	0		80 - 120
VANADIUM	0.0063	0		80 - 120
ZINC	0.0043	0		80 - 120

*** - calibrated by linear regression*

12065 Lebanon Rd
Mt. Juliet, TN 37122
(615) 758-5858
(800) 767-5859
Fax (615) 758-5859
Tax I.D 62-0814289
Est. 1970

Quality Control Summary
SDG: L735181
URS Corporation - Tucson AZ - 1088308

Test: Trace Metals by Method 6010B
Project No: 23446543.0057AA
Project: Holloman AFB EPA ID: TN00003
Collection Date: 11/20/2014
Instrument ID: ICP12

Standard Type : ICSAB
Analysis Date: 11/28/2014 8:17 PM
Analysis Time: 2017
Data File: 112814ICP12 B

Analyte	Conc.	True Value	Recovery	Limits
SILVER	1.12	1.00	112 %	80 - 120
ALUMINUM	475	500	95 %	80 - 120
ARSENIC	0.477	0.500	95 %	80 - 120
BORON	0.965	1.00	96 %	80 - 120
BARIUM	0.474	0.500	95 %	80 - 120
BERYLLIUM	0.452	0.500	90 %	80 - 120
CALCIUM	497	500	99 %	80 - 120
CADMIUM	1.04	1.00	104 %	80 - 120
COBALT	0.491	0.500	98 %	80 - 120
CHROMIUM	0.470	0.500	94 %	80 - 120
COPPER	0.484	0.500	97 %	80 - 120
IRON	198	200	99 %	80 - 120
POTASSIUM	0.0443	0		80 - 120
LITHIUM	0.0037	0		80 - 120
MAGNESIUM	510	500	102 %	80 - 120
MANGANESE	0.476	0.500	95 %	80 - 120
MOLYBDENUM	0.455	0.500	91 %	80 - 120
SODIUM	0.0296	0		80 - 120
NICKEL	0.972	1.00	97 %	80 - 120
LEAD	0.951	1.00	95 %	80 - 120
SULFUR	0.0037	0		80 - 120
ANTIMONY	0.491	0.500	98 %	80 - 120
SELENIUM	0.504	0.500	101 %	80 - 120
SILICON	1.00	1.00	100 %	80 - 120
TIN	0.497	0.500	99 %	80 - 120
STRONTIUM	0.0073	0		80 - 120
TITANIUM	0.473	0.500	95 %	80 - 120
THALLIUM	0.460	0.500	92 %	80 - 120
VANADIUM	0.467	0.500	93 %	80 - 120
ZINC	0.906	1.00	91 %	80 - 120

*** - calibrated by linear regression*

12065 Lebanon Rd
Mt. Juliet, TN 37122
(615) 758-5858
(800) 767-5859
Fax (615) 758-5859
Tax I.D 62-0814289
Est. 1970

Quality Control Summary
SDG: L735181
URS Corporation - Tucson AZ - 1088308

Test: Trace Metals by Method 6010B
Project No: 23446543.0057AA
Project: Holloman AFB EPA ID: TN00003
Collection Date: 11/20/2014
Instrument ID: ICP12

Standard Type : ICSA
Analysis Date: 11/28/2014 9:13 PM
Analysis Time: 2113
Data File: 112814ICP12 B

Analyte	Conc.	True Value	Recovery	Limits
SILVER	-0.0018	0		80 - 120
ALUMINUM	476	500	95 %	80 - 120
ARSENIC	-0.0186	0		80 - 120
BORON	0.0021	0		80 - 120
BARIUM	0.0024	0		80 - 120
BERYLLIUM	0.0001	0		80 - 120
CALCIUM	501	500	100 %	80 - 120
CADMIUM	-0.0028	0		80 - 120
COBALT	0.0018	0		80 - 120
CHROMIUM	0.0016	0		80 - 120
COPPER	0.0056	0		80 - 120
IRON	199	200	100 %	80 - 120
POTASSIUM	0.0306	0		80 - 120
LITHIUM	0.0036	0		80 - 120
MAGNESIUM	515	500	103 %	80 - 120
MANGANESE	-0.0046	0		80 - 120
MOLYBDENUM	-0.0008	0		80 - 120
SODIUM	0.0250	0		80 - 120
NICKEL	-0.0187	0		80 - 120
LEAD	-0.0259	0		80 - 120
SULFUR	-0.0005	0		80 - 120
ANTIMONY	-0.0089	0		80 - 120
SELENIUM	0.0027	0		80 - 120
SILICON	-0.0123	0		80 - 120
TIN	-0.0001	0		80 - 120
STRONTIUM	0.0075	0		80 - 120
TITANIUM	-0.0011	0		80 - 120
THALLIUM	0.0047	0		80 - 120
VANADIUM	0.0047	0		80 - 120
ZINC	0.0042	0		80 - 120

*** - calibrated by linear regression*

12065 Lebanon Rd
Mt. Juliet, TN 37122
(615) 758-5858
(800) 767-5859
Fax (615) 758-5859
Tax I.D 62-0814289
Est. 1970

Quality Control Summary
SDG: L735181
URS Corporation - Tucson AZ - 1088308

Test: Trace Metals by Method 6010B
Project No: 23446543.0057AA
Project: Holloman AFB EPA ID: TN00003
Collection Date: 11/20/2014
Instrument ID: ICP12

Standard Type : ICSAB
Analysis Date: 11/28/2014 9:18 PM
Analysis Time: 2118
Data File: 112814ICP12 B

Analyte	Conc.	True Value	Recovery	Limits
SILVER	1.12	1.00	112 %	80 - 120
ALUMINUM	471	500	94 %	80 - 120
ARSENIC	0.482	0.500	96 %	80 - 120
BORON	0.958	1.00	96 %	80 - 120
BARIUM	0.475	0.500	95 %	80 - 120
BERYLLIUM	0.448	0.500	90 %	80 - 120
CALCIUM	494	500	99 %	80 - 120
CADMIUM	1.04	1.00	104 %	80 - 120
COBALT	0.493	0.500	99 %	80 - 120
CHROMIUM	0.473	0.500	95 %	80 - 120
COPPER	0.482	0.500	96 %	80 - 120
IRON	197	200	98 %	80 - 120
POTASSIUM	0.0394	0		80 - 120
LITHIUM	0.0037	0		80 - 120
MAGNESIUM	508	500	102 %	80 - 120
MANGANESE	0.481	0.500	96 %	80 - 120
MOLYBDENUM	0.456	0.500	91 %	80 - 120
SODIUM	0.0240	0		80 - 120
NICKEL	0.976	1.00	98 %	80 - 120
LEAD	0.955	1.00	95 %	80 - 120
SULFUR	-0.0027	0		80 - 120
ANTIMONY	0.489	0.500	98 %	80 - 120
SELENIUM	0.510	0.500	102 %	80 - 120
SILICON	1.01	1.00	101 %	80 - 120
TIN	0.499	0.500	100 %	80 - 120
STRONTIUM	0.0074	0		80 - 120
TITANIUM	0.472	0.500	94 %	80 - 120
THALLIUM	0.460	0.500	92 %	80 - 120
VANADIUM	0.469	0.500	94 %	80 - 120
ZINC	0.905	1.00	91 %	80 - 120

*** - calibrated by linear regression*

12065 Lebanon Rd
Mt. Juliet, TN 37122
(615) 758-5858
(800) 767-5859
Fax (615) 758-5859
Tax I.D 62-0814289
Est. 1970

Quality Control Summary
SDG: L735181
URS Corporation - Tucson AZ - 1088308

Project No: 23446543.0057AA
Project: Holloman AFB EPA ID: TN00003
Instrument ID: ICP12 Method: ICP-AES Run Number: 112614ICP12

Laboratory Sample ID	Dil	Time	Analytes																													
			Al	Sb	As	Ba	Be	B	Cd	Ca	Cr	Co	Cu	Fe	Pb	Li	Mg	Mn	Mo	Ni	K	Se	Si	Ag	Na	Sr	S	Tl	Sn	Ti	V	Zn
CALBLK	1	0707	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
STD1 14G16199	1	0712	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
STD7 14J27631	1	0716		X	X		X	X	X	X	X	X	X		X	X		X		X		X	X	X	X	X		X	X	X	X	X
STD2 14J08649	1	0720		X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X		X	X	X	X	X	X	X	X	X	X	X
STD3 14J06521	1	0724			X	X	X	X		X	X	X	X	X		X		X	X	X			X		X	X	X		X	X	X	X
STD4 14J27630	1	0729	X			X				X				X			X				X				X		X					
STD5 14J08650	1	0733	X							X				X			X				X				X		X					
STD6 14I24985	1	0738	X							X				X			X				X				X		X					
ICV	1	0742	X			X	X						X					X													X	X
ICB	1	0747	X			X	X						X					X													X	X
ICVLL	1	0751	X			X	X						X					X													X	X
ICSA	1	0755	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
ICSAB	1	0800	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
CALBLK	1	1215	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
STD1 14G16199	1	1219	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
STD7 14J27631	1	1223		X	X		X	X	X	X	X	X	X		X	X		X		X		X	X	X	X	X		X	X	X	X	X
STD2 14J08649	1	1228		X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X		X	X	X	X	X	X	X	X	X	X	X
STD3 14J06521	1	1232			X	X	X	X		X	X	X	X	X		X		X	X	X			X		X	X	X		X	X	X	X
STD4 14J27630	1	1236	X			X				X				X			X				X				X		X					
STD5 14J08650	1	1241	X							X				X			X				X				X		X					
STD6 14I24985	1	1245	X							X				X			X				X				X		X					
ICV	1	1249	X			X	X						X					X													X	X
ICB	1	1257	X			X	X						X					X													X	X
ICVLL	1	1301	X			X	X						X					X													X	X
ICSA	1	1306	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
ICSAB	1	1310	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
CCV	1	1512	X			X	X						X					X													X	X
CCB	1	1516	X			X	X						X					X													X	X
BLANK WG756740	1	1533	X			X	X						X					X													X	X
LCS WG756740	1	1537	X			X	X						X					X													X	X
LCSD WG756740	1	1542	X			X	X						X					X													X	X
L735318-09SD WG756740	25	1551	X			X	X						X					X													X	X
L735318-09MS WG756740	5	1555	X			X	X						X					X													X	X
L735318-09MSD WG756740	5	1559	X			X	X						X					X													X	X
CCV	1	1603	X			X	X						X					X													X	X
CCB	1	1608	X			X	X						X					X													X	X
L735181-03 WG756740	5	1709	X			X	X						X					X													X	X
L735181-04 WG756740	5	1714	X			X	X						X					X													X	X
CCV	1	1718	X			X	X						X					X													X	X
CCB	1	1722	X			X	X						X					X													X	X
L735181-06 WG756740	5	1727	X			X	X						X					X													X	X

12065 Lebanon Rd
Mt. Juliet, TN 37122
(615) 758-5858
(800) 767-5859
Fax (615) 758-5859
Tax I.D 62-0814289
Est. 1970

Quality Control Summary
SDG: L735181
URS Corporation - Tucson AZ - 1088308

Project No: 23446543.0057AA
Project: Holloman AFB EPA ID: TN00003
Instrument ID: ICP12 Method: ICP-AES Run Number: 112614ICP12

Laboratory Sample ID	Dil	Time	Analytes																													
			Al	Sb	As	Ba	Be	B	Cd	Ca	Cr	Co	Cu	Fe	Pb	Li	Mg	Mn	Mo	Ni	K	Se	Si	Ag	Na	Sr	S	Tl	Sn	Ti	V	Zn
L735181-09 WG756740	5	1731	X			X	X						X					X													X	X
L735318-09PS WG756740	5	1811	X			X	X						X					X													X	X
CCV	1	1816	X			X	X						X					X													X	X
CCB	1	1820	X			X	X						X					X													X	X
CCVLL	1	1825	X			X	X						X					X													X	X
ICSA	1	1829	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
ICSAB	1	1833	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X

12065 Lebanon Rd
Mt. Juliet, TN 37122
(615) 758-5858
(800) 767-5859
Fax (615) 758-5859
Tax I.D 62-0814289
Est. 1970

Quality Control Summary
SDG: L735181
URS Corporation - Tucson AZ - 1088308

Project No: 23446543.0057AA
Project: Holloman AFB EPA ID: TN00003
Instrument ID: ICP12 Method: ICP-AES Run Number: 112814ICP12 B

Laboratory Sample ID	Dil	Time	Analytes																													
			Al	Sb	As	Ba	Be	B	Cd	Ca	Cr	Co	Cu	Fe	Pb	Li	Mg	Mn	Mo	Ni	K	Se	Si	Ag	Na	Sr	S	Tl	Sn	Ti	V	Zn
CALBLK	1	1428	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
STD1 14G16199	1	1432	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
STD7 14J27631	1	1436		X	X		X	X	X	X	X	X	X		X	X		X		X		X	X	X	X	X		X	X	X	X	X
STD2 14J08649	1	1441		X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X		X	X	X	X	X	X	X	X	X	X	X
STD3 14J06521	1	1445			X	X	X	X		X	X	X	X	X		X		X	X	X			X		X	X	X		X	X	X	X
STD4 14J27630	1	1449	X			X				X				X			X				X				X		X					
STD5 14J08650	1	1454	X							X				X			X				X				X		X					
STD6 14I24985	1	1458	X							X				X			X				X				X		X					
ICV	1	1503	X			X	X						X					X													X	X
ICB	1	1507	X			X	X						X					X													X	X
ICVLL	1	1512	X			X	X						X					X													X	X
ICSA	1	1516	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
ICSAB	1	1520	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
BLANK WG756747	1	1529	X			X	X						X					X													X	X
LCS WG756747	1	1534	X			X	X						X					X													X	X
LCSD WG756747	1	1538	X			X	X						X					X													X	X
L734231-16SD WG756747	25	1547	X			X	X						X					X													X	X
L734231-16PS WG756747	5	1552	X			X	X						X					X													X	X
L734231-16MS WG756747	5	1556	X			X	X						X					X													X	X
L734231-16MSD WG756747	5	1601	X			X	X						X					X													X	X
CCV	1	1610	X			X	X						X					X													X	X
CCB	1	1614	X			X	X						X					X													X	X
L735181-02 WG756747	5	1646	X			X	X						X					X													X	X
L735181-05 WG756747	5	1651	X			X	X						X					X													X	X
L735181-07 WG756747	5	1655	X			X	X						X					X													X	X
L735181-08 WG756747	5	1700	X			X	X						X					X													X	X
CCV	1	1704	X			X	X						X					X													X	X
CCB	1	1708	X			X	X						X					X													X	X
CCVLL	1	2009	X			X	X						X					X													X	X
ICSA	1	2013	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
ICSAB	1	2017	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X

Legend

Column	Color	Meaning
Exp	Green	Parameter exported to LIMS.
%Rec	Red	%Recovery is outside the limits
RPD	Red	RPD exceeds the limit.
RSD	Red	RSD exceeds the limit.
CorCoef	Red	Correlation coefficient is below the limit.
Uncorrected Result	Red	Result exceeds the instrument's LDR for this element.
Uncorrected Result	Blue	Result exceeds the intrument's LDR for an interfering element.
Uncorrected Result	Purple	Result exceeds the instrument's LDR for this element and for an interfering element.
Corrected Result	Red	Result < -2.5 * RL or prep blank result is above the specified limit
Corrected Result	Orange	ICB or CCB result is above the RL for this element.
Intensity	Red	Negative intensity in the curve.
LDR	Yellow	Uncorrected Result is above the LDR

Sample ID: ICVLL
Analysis Date: 11/26/14 13:01 Standard ID: 14G16199
Sequence: 52

QC Parameters

Exp	Parameter	Units	Intensity	Uncorrected Result	Corrected Result	RSD	%Rec	LL	HL	TV	CorCoef
N	YTTRIUM	%	8239.379	99.21889	99.21889	0.6181326	99	60	140	8304.244	
N	INDIUM	%	2895.763	101.4450	101.4450	0.4394448	101	60	140	2854.514	
N	YTTRIUM	%	4929.317	99.55266	99.55266	0.3769602	100	60	140	4951.467	
N	YTTRIUM	%	134887.2	102.8358	102.8358	3.898059	103	60	140	131167.5	

Target Parameters

Exp	Parameter	Units	Uncorrected Result	Corrected Result	RSD	%Rec	LL	HL	TV	CorCoef	
Y	ALUMINUM	ppm	0.1243899	0.1243899	39.66425	124	50	150	0.10	0.9999940	
Y	ANTIMONY	ppm	0.02033581	0.02033581	1.507991	102	50	150	0.02	0.9999433	
Y	ARSENIC	ppm	0.01959556	0.01959556	8.912377	98	50	150	0.02	0.9998561	
Y	BARIUM	ppm	0.005064174	0.005064174	2.534806	101	50	150	0.0050	0.9999705	
Y	BERYLLIUM	ppm	0.001804108	0.001804108	3.610763	90	50	150	0.0020	0.9999641	
Y	BORON	ppm	0.1946651	0.1946651	1.665969	97	50	150	0.20	0.9999116	
Y	CADMIUM	ppm	0.005146471	0.005146471	2.187445	103	50	150	0.0050	0.9999616	
Y	CALCIUM	ppm	0.4787288	0.4787288	0.2611445	96	50	150	0.50	0.9999618	
Y	CHROMIUM	ppm	0.009100523	0.009100523	1.592168	91	50	150	0.01	0.9999988	
Y	COBALT	ppm	0.008689207	0.008689207	2.657398	87	50	150	0.01	0.9999246	
Y	COPPER	ppm	0.01828949	0.01828949	5.737718	91	50	150	0.02	0.9999786	
Y	IRON	ppm	0.1042008	0.1042008	1.586903	104	50	150	0.10	0.9997840	
Y	LEAD	ppm	0.004330039	0.004330039	24.10225	87	50	150	0.0050	0.9999232	
Y	LITHIUM	ppm	0.01498125	0.01498125	1.048561	100	50	150	0.0150	0.9999947	
Y	MAGNESIUM	ppm	0.1034056	0.1034056	29.18765	103	50	150	0.10	0.9999849	
Y	MANGANESE	ppm	0.009388956	0.009388956	5.046912	94	50	150	0.01	0.9999984	
Y	MOLYBDENUM	ppm	0.005021375	0.005021375	2.408179	100	50	150	0.0050	0.9999698	
Y	NICKEL	ppm	0.01820321	0.01820321	1.573766	91	50	150	0.02	0.9998930	
Y	POTASSIUM	ppm	0.4663257	0.4663257	1.576743	93	50	150	0.50	0.9999709	
Y	SELENIUM	ppm	0.01857983	0.01857983	14.93274	93	50	150	0.02	0.9998625	
Y	SILICON	ppm	0.1818525	0.1818525	5.787096	91	50	150	0.20	0.9995923	
Y	SILVER	ppm	0.009422326	0.009422326	2.348302	94	50	150	0.01	0.9999828	
Y	SODIUM	ppm	0.4897515	0.4897515	0.5069745	98	50	150	0.50	0.9999933	
Y	STRONTIUM	ppm	0.009645603	0.009645603	1.703586	96	50	150	0.01	0.9999927	
Y	SULFUR	ppm	4.255311	4.255311	0.7120966	426	50	150	1	0.9999307	NT
Y	THALLIUM	ppm	0.01941776	0.01941776	3.817076	97	50	150	0.02	0.9999240	
Y	TIN	ppm	0.01783556	0.01783556	3.018401	89	50	150	0.02	0.9997605	

Sample ID: ICVLL
Analysis Date: 11/26/14 13:01 Standard ID: 14G16199
Sequence: 52

Target Parameters cont'd.

Exp	Parameter	Units	Uncorrected Result	Corrected Result	RSD	%Rec	LL	HL	TV	CorCoef
Y	TITANIUM	ppm	0.009158591	0.009158591	6.032555	92	50	150	0.01	0.9999888
Y	VANADIUM	ppm	0.01233675	0.01233675	11.66686	123	50	150	0.01	0.9999906
Y	ZINC	ppm	0.02800422	0.02800422	0.7666443	93	50	150	0.03	0.9999864

Sample ID: CCVLL
Analysis Date: 11/26/14 18:25 Standard ID: 14G16199
Sequence: 119

QC Parameters

Exp	Parameter	Units	Intensity	Uncorrected Result	Corrected Result	RSD	%Rec	LL	HL	TV	CorCoef
N	YTTRIUM	%	8396.933	101.1162	101.1162	0.4877154	101	60	140	8304.244	
N	INDIUM	%	2862.373	100.2753	100.2753	1.204075	100	60	140	2854.514	
N	YTTRIUM	%	4920.050	99.36551	99.36551	1.010757	99	60	140	4951.467	
N	YTTRIUM	%	118568.6	90.39479	90.39479	12.72332	90	60	140	131167.5	

Target Parameters

Exp	Parameter	Units	Uncorrected Result	Corrected Result	RSD	%Rec	LL	HL	TV	CorCoef
Y	ALUMINUM	ppm	0.1759539	0.1759539	5.993151	176	1	200	0.10	0.9999940
Y	ANTIMONY	ppm	0.01980182	0.01980182	8.059554	99	1	200	0.02	0.9999433
Y	ARSENIC	ppm	0.01947529	0.01947529	1.182990	97	1	200	0.02	0.9998561
Y	BARIUM	ppm	0.005304078	0.005304078	1.429099	106	1	200	0.0050	0.9999705
Y	BERYLLIUM	ppm	0.001827991	0.001827991	5.673241	91	1	200	0.0020	0.9999641
Y	BORON	ppm	0.2023850	0.2023850	3.583073	101	1	200	0.20	0.9999116
Y	CADMIUM	ppm	0.005453166	0.005453166	2.051878	109	1	200	0.0050	0.9999616
Y	CALCIUM	ppm	0.5151958	0.5151958	0.9427420	103	1	200	0.50	0.9999618
Y	CHROMIUM	ppm	0.01168724	0.01168724	14.25744	117	1	200	0.01	0.9999988
Y	COBALT	ppm	0.009806670	0.009806670	5.075045	98	1	200	0.01	0.9999246
Y	COPPER	ppm	0.01979894	0.01979894	2.395635	99	1	200	0.02	0.9999786
Y	IRON	ppm	0.1030125	0.1030125	2.529738	103	1	200	0.10	0.9997840
Y	LEAD	ppm	0.003727875	0.003727875	21.17547	75	1	200	0.0050	0.9999232
Y	LITHIUM	ppm	0.01559578	0.01559578	3.243067	104	1	200	0.0150	0.9999947
Y	MAGNESIUM	ppm	0.1046828	0.1046828	46.90791	105	1	200	0.10	0.9999849
Y	MANGANESE	ppm	0.01181618	0.01181618	14.64996	118	1	200	0.01	0.9999984
Y	MOLYBDENUM	ppm	0.005286736	0.005286736	3.893956	106	1	200	0.0050	0.9999698
Y	NICKEL	ppm	0.02039590	0.02039590	1.495542	102	1	200	0.02	0.9998930
Y	POTASSIUM	ppm	0.5046055	0.5046055	2.306422	101	1	200	0.50	0.9999709
Y	SELENIUM	ppm	0.02133400	0.02133400	8.188826	107	1	200	0.02	0.9998625
Y	SILICON	ppm	0.2155646	0.2155646	15.23398	108	1	200	0.20	0.9995923
Y	SILVER	ppm	0.01024707	0.01024707	12.55694	102	1	200	0.01	0.9999828
Y	SODIUM	ppm	0.5031376	0.5031376	0.7622712	101	1	200	0.50	0.9999933
Y	STRONTIUM	ppm	0.01007425	0.01007425	2.714345	101	1	200	0.01	0.9999927
N	SULFUR	ppm	4.545361	4.545361	1.181506	455			1	0.9999307
Y	THALLIUM	ppm	0.01922270	0.01922270	9.696317	96	1	200	0.02	0.9999240
Y	TIN	ppm	0.01977226	0.01977226	4.866780	99	1	200	0.02	0.9997605

Sample ID: CCVLL
Analysis Date: 11/26/14 18:25 Standard ID: 14G16199
Sequence: 119

Target Parameters cont'd.

Exp	Parameter	Units	Uncorrected Result	Corrected Result	RSD	%Rec	LL	HL	TV	CorCoef
Y	TITANIUM	ppm	0.009646221	0.009646221	8.155749	96	1	200	0.01	0.9999888
Y	VANADIUM	ppm	0.01362721	0.01362721	20.21013	136	1	200	0.01	0.9999906
Y	ZINC	ppm	0.03102356	0.03102356	1.834692	103	1	200	0.03	0.9999864

Legend

Column	Color	Meaning
Exp	Green	Parameter exported to LIMS.
%Rec	Red	%Recovery is outside the limits
RPD	Red	RPD exceeds the limit.
RSD	Red	RSD exceeds the limit.
CorCoef	Red	Correlation coefficient is below the limit.
Uncorrected Result	Red	Result exceeds the instrument's LDR for this element.
Uncorrected Result	Blue	Result exceeds the intrument's LDR for an interfering element.
Uncorrected Result	Purple	Result exceeds the instrument's LDR for this element and for an interfering element.
Corrected Result	Red	Result < -2.5 * RL or prep blank result is above the specified limit
Corrected Result	Orange	ICB or CCB result is above the RL for this element.
Intensity	Red	Negative intensity in the curve.
LDR	Yellow	Uncorrected Result is above the LDR

Sample ID: ICVLL
Analysis Date: 11/28/14 15:12 Standard ID: 14G16199
Sequence: 23

QC Parameters

Exp	Parameter	Units	Intensity	Uncorrected Result	Corrected Result	RSD	%Rec	LL	HL	TV	CorCoef
N	YTTRIUM	%	8136.377	101.4587	101.4587	0.4054843	101	60	140	8019.398	
N	INDIUM	%	2890.451	100.6361	100.6361	0.3185339	101	60	140	2872.180	
N	YTTRIUM	%	4936.744	100.0886	100.0886	1.730867	100	60	140	4932.372	
N	YTTRIUM	%	134405.7	101.6458	101.6458	0.5413279	102	60	140	132229.4	

Target Parameters

Exp	Parameter	Units	Uncorrected Result	Corrected Result	RSD	%Rec	LL	HL	TV	CorCoef	
Y	ALUMINUM	ppm	0.1195785	0.1195785	36.59290	120	50	150	0.10	0.9999983	
Y	ANTIMONY	ppm	0.01803701	0.01803701	2.047805	90	50	150	0.02	0.9999908	
Y	ARSENIC	ppm	0.01761924	0.01761924	14.70912	88	50	150	0.02	0.9998614	
Y	BARIUM	ppm	0.005772656	0.005772656	0.4919411	115	50	150	0.0050	0.9998827	
Y	BERYLLIUM	ppm	0.001894837	0.001894837	5.328375	95	50	150	0.0020	0.9999865	
Y	BORON	ppm	0.2034166	0.2034166	3.500895	102	50	150	0.20	0.9999439	
Y	CADMIUM	ppm	0.005118857	0.005118857	1.930654	102	50	150	0.0050	0.9999956	
Y	CALCIUM	ppm	0.5481435	0.5481435	2.384993	110	50	150	0.50	0.9999284	
Y	CHROMIUM	ppm	0.01020853	0.01020853	3.428776	102	50	150	0.01	0.9996154	
Y	COBALT	ppm	0.009985920	0.009985920	1.687271	100	50	150	0.01	0.9999869	
Y	COPPER	ppm	0.02286649	0.02286649	5.087658	114	50	150	0.02	0.9999478	
Y	IRON	ppm	0.1122675	0.1122675	3.925780	112	50	150	0.10	0.9999840	
Y	LEAD	ppm	0.004972173	0.004972173	13.97881	99	50	150	0.0050	0.9999985	
Y	LITHIUM	ppm	0.01460898	0.01460898	2.644760	97	50	150	0.0150	0.9999782	
Y	MAGNESIUM	ppm	0.1174792	0.1174792	23.12642	117	50	150	0.10	0.9999994	
Y	MANGANESE	ppm	0.01039873	0.01039873	1.125752	104	50	150	0.01	0.9996684	
Y	MOLYBDENUM	ppm	0.005230370	0.005230370	4.765216	105	50	150	0.0050	0.9999441	
Y	NICKEL	ppm	0.01956223	0.01956223	2.270163	98	50	150	0.02	0.9999727	
Y	POTASSIUM	ppm	0.5108337	0.5108337	3.203745	102	50	150	0.50	0.9999416	
Y	SELENIUM	ppm	0.02082151	0.02082151	6.912846	104	50	150	0.02	0.9999922	
Y	SILICON	ppm	0.1843234	0.1843234	1.123913	92	50	150	0.20	0.9994207	
Y	SILVER	ppm	0.008590659	0.008590659	0.6725903	86	50	150	0.01	0.9988285	
Y	SODIUM	ppm	0.5161610	0.5161610	1.549146	103	50	150	0.50	0.9999926	
Y	STRONTIUM	ppm	0.01019663	0.01019663	1.371112	102	50	150	0.01	0.9999795	
Y	SULFUR	ppm	-0.005068230	-0.005068230	21.23331	0	50	150	1	0.9984114	NT
Y	THALLIUM	ppm	0.02110860	0.02110860	3.200371	106	50	150	0.02	0.9999998	
Y	TIN	ppm	0.01821863	0.01821863	2.476189	91	50	150	0.02	0.9998821	

Sample ID: ICVLL
Analysis Date: 11/28/14 15:12 Standard ID: 14G16199
Sequence: 23

Target Parameters cont'd.

Exp	Parameter	Units	Uncorrected Result	Corrected Result	RSD	%Rec	LL	HL	TV	CorCoef
Y	TITANIUM	ppm	0.009660816	0.009660816	6.311706	97	50	150	0.01	0.9999791
Y	VANADIUM	ppm	0.01083422	0.01083422	10.21901	108	50	150	0.01	0.9999622
Y	ZINC	ppm	0.03119917	0.03119917	1.548637	104	50	150	0.03	0.9999635

Sample ID: CCVLL
Analysis Date: 11/28/14 20:09 Standard ID: 14G16199
Sequence: 87

QC Parameters

Exp	Parameter	Units	Intensity	Uncorrected Result	Corrected Result	RSD	%Rec	LL	HL	TV	CorCoef
N	YTTRIUM	%	8219.704	102.4978	102.4978	0.1348373	102	60	140	8019.398	
N	INDIUM	%	2912.607	101.4075	101.4075	0.1647713	101	60	140	2872.180	
N	YTTRIUM	%	5036.439	102.1099	102.1099	0.4678154	102	60	140	4932.372	
N	YTTRIUM	%	134098.5	101.4135	101.4135	1.520540	101	60	140	132229.4	

Target Parameters

Exp	Parameter	Units	Uncorrected Result	Corrected Result	RSD	%Rec	LL	HL	TV	CorCoef
Y	ALUMINUM	ppm	0.07340894	0.07340894	64.17943	73	1	200	0.10	0.9999983
Y	ANTIMONY	ppm	0.01818658	0.01818658	2.997885	91	1	200	0.02	0.9999908
Y	ARSENIC	ppm	0.01907700	0.01907700	0.6231638	95	1	200	0.02	0.9998614
Y	BARIUM	ppm	0.005261786	0.005261786	0.6286307	105	1	200	0.0050	0.9998827
Y	BERYLLIUM	ppm	0.001908184	0.001908184	4.358748	95	1	200	0.0020	0.9999865
Y	BORON	ppm	0.1897042	0.1897042	0.1486595	95	1	200	0.20	0.9999439
Y	CADMIUM	ppm	0.005069983	0.005069983	4.516309	101	1	200	0.0050	0.9999956
Y	CALCIUM	ppm	0.4987973	0.4987973	1.045987	100	1	200	0.50	0.9999284
Y	CHROMIUM	ppm	0.01059166	0.01059166	4.698518	106	1	200	0.01	0.9996154
Y	COBALT	ppm	0.01024559	0.01024559	1.161488	102	1	200	0.01	0.9999869
Y	COPPER	ppm	0.02316071	0.02316071	11.84359	116	1	200	0.02	0.9999478
Y	IRON	ppm	0.1015331	0.1015331	2.141956	102	1	200	0.10	0.9999840
Y	LEAD	ppm	0.004873057	0.004873057	7.212490	97	1	200	0.0050	0.9999985
Y	LITHIUM	ppm	0.01432393	0.01432393	0.9026226	95	1	200	0.0150	0.9999782
Y	MAGNESIUM	ppm	0.09422215	0.09422215	20.54715	94	1	200	0.10	0.9999994
Y	MANGANESE	ppm	0.01068658	0.01068658	2.551432	107	1	200	0.01	0.9996684
Y	MOLYBDENUM	ppm	0.005240270	0.005240270	0.5401186	105	1	200	0.0050	0.9999441
Y	NICKEL	ppm	0.01975239	0.01975239	1.557782	99	1	200	0.02	0.9999727
Y	POTASSIUM	ppm	0.4870157	0.4870157	1.290919	97	1	200	0.50	0.9999416
Y	SELENIUM	ppm	0.01764667	0.01764667	11.22893	88	1	200	0.02	0.9999922
Y	SILICON	ppm	0.1735969	0.1735969	2.238101	87	1	200	0.20	0.9994207
Y	SILVER	ppm	0.008128962	0.008128962	2.327373	81	1	200	0.01	0.9988285
Y	SODIUM	ppm	0.4844103	0.4844103	0.7059147	97	1	200	0.50	0.9999926
Y	STRONTIUM	ppm	0.009803742	0.009803742	1.009821	98	1	200	0.01	0.9999795
N	SULFUR	ppm	4.214181	4.214181	0.2417783	421			1	0.9984114
Y	THALLIUM	ppm	0.02009106	0.02009106	2.614354	100	1	200	0.02	0.9999998
Y	TIN	ppm	0.01825480	0.01825480	4.926687	91	1	200	0.02	0.9998821

Sample ID: CCVLL
Analysis Date: 11/28/14 20:09 Standard ID: 14G16199
Sequence: 87

Target Parameters cont'd.

Exp	Parameter	Units	Uncorrected Result	Corrected Result	RSD	%Rec	LL	HL	TV	CorCoef
Y	TITANIUM	ppm	0.009346683	0.009346683	9.806779	93	1	200	0.01	0.9999791
Y	VANADIUM	ppm	0.01112908	0.01112908	19.72890	111	1	200	0.01	0.9999622
Y	ZINC	ppm	0.03057818	0.03057818	0.2102484	102	1	200	0.03	0.9999635

Raw Data

3015 GW
ESC Lab Sciences

Method: 3015 SOP:340389 R.13

HNO3 Standard ID:	14K18881	**Vol. Used:**	3 mL	**Workgroup:**	WG756740
HCl Standard ID:	14K11531	**Vol. Used:**	2 mL	**Date:**	11/25/2014
ICP Spike Standard ID:	14K20034	**Vol. Used:**	0.45 mL	**Analyst:**	681
Sulfur Spike Standard ID:	(none)	**Vol. Used:**	0.45 mL	**Samples pH Verified:**	681
Digestion Vessel Standard ID:	ESC30685			**Tray ID:**	2
				Microwave ID:	MJ2771
Spike Pipetter ID:	F13412591			**Digest Time & Date:**	11/25/14 15:08

Pos.		Sample Number	Sample Volume (mL)	Final Volume (mL)	Sample Description	Comments
1		**BLANK**	45	50	Nanopure	
2		**LCS**	45	50	Nanopure	
3		**LCSD**	45	50	Nanopure	
4	1.	**L735318-09**	45	50	Clear	
5	1.	**MS L735318-09**	45	50	Clear	
6	1.	**MSD L735318-09**	45	50	Clear	
7	2.	**L734231-15**	45	50	Clear	
8	3.	**L734231-18**	45	50	Clear	
9	4.	**L734231-21**	45	50	Clear	
10	5.	**L734231-23**	45	50	Clear	
11	6.	**L734810-02**	45	50	Clear	
12	7.	**L734810-04**	45	50	Clear	
13	8.	**L734810-06**	45	50	Clear	
14	9.	**L734810-08**	45	50	Clear	
15	10.	**L735181-03**	45	50	Clear	
16	11.	**L735181-04**	45	50	Clear	
17	12.	**L735181-06**	45	50	Clear	
18	13.	**L735181-09**	45	50	Clear	
19	14.	**L735318-06**	45	50	Clear	
20						
21						
22						
23						
24						
25						
26						
27						
28						
29						
30						
31						
32						
33						
34						
35						

Reviewed By: **Analyst:** 388JG

Additional Remarks: **Date:** 11/26/2014

3015 GW
ESC Lab Sciences

Method: 3015 SOP:340389 R.13

HNO3 Standard ID:	14K25279	**Vol. Used:**	3 mL	**Workgroup:**	WG756747
HCl Standard ID:	14K11531	**Vol. Used:**	2 mL	**Date:**	11/26/2014
ICP Spike Standard ID:	14K1889	**Vol. Used:**	0.45 mL	**Analyst:**	656
Sulfur Spike Standard ID:	(none)	**Vol. Used:**	0.45 mL	**Samples pH Verified:**	656
Digestion Vessel Standard ID:	ESC30685			**Tray ID:**	1
				Microwave ID:	MD2861
Spike Pipetter ID:	F13412531			**Digest Time & Date:**	11/26/14 10:13

Pos.		Sample Number	Sample Volume (mL)	Final Volume (mL)	Sample Description	Comments
1		**BLANK**	45	50	Nanopure	
2		**LCS**	45	50	Nanopure	
3		**LCSD**	45	50	Nanopure	
4	1.	**L734231-16**	45	50	Brown Cloudy	
5	1.	**MS L734231-16**	45	50	Brown Cloudy	
6	1.	**MSD L734231-16**	45	50	Brown Cloudy	
7	2.	**L734231-19**	45	50	Brown Cloudy	
8	3.	**L734231-20**	45	50	Brown Cloudy	
9	4.	**L734231-24**	45	50	Brown Cloudy	
10	5.	**L734810-03**	45	50	Brown Cloudy	
11	6.	**L734810-05**	45	50	Brown Cloudy	
12	7.	**L734810-07**	45	50	Brown Cloudy	
13	8.	**L734810-09**	45	50	Brown Cloudy	
14	9.	**L735181-02**	45	50	Brown Cloudy	
15	10.	**L735181-05**	45	50	Brown Cloudy	
16	11.	**L735181-07**	45	50	Brown Cloudy	
17	12.	**L735181-08**	45	50	Brown Cloudy	
18	13.	**L735318-07**	45	50	Brown Cloudy	
19	14.	**L735318-08**	45	50	Brown Cloudy	
20	15.		45	50	(none)	
21	16.		45	50	(none)	
22	17.		45	50	(none)	
23	18.		45	50	(none)	
24	19.		45	50	(none)	
25	20.		45	50	(none)	
26			45	50	(none)	
27			45	50	(none)	
28			45	50	(none)	
29			45	50	(none)	
30			45	50	(none)	
31			45	50	(none)	
32			45	50	(none)	
33			45	50	(none)	
34			45	50	(none)	
35			45	50	(none)	

Reviewed By: **Analyst:** 638

Additional Remarks: **Date:** 11/26/2014

Basic sample report

12/1/2014 1:56:44 PM

LabBook 112614ICP12.imexp

CALBLK

Sample Type BLK Analysis Date 11/26/2014 7:03:06 AM

Dilution Factor 1

	Concentration average
Al 308.215 {109} (Radial)	0.000 ppm
B 249.678 {135} (Radial)	0.000 ppm
Be 313.042 {108} (Radial)	0.000 ppm
Ca 317.933 {106} (Radial)	0.000 ppm
Ca 373.690 {90} (Radial)	0.000 ppm
Fe 259.940 {130} (Radial)	0.000 ppm
Fe 271.441 {124} (Radial)	0.000 ppm
K 766.490 {44} (Radial)	0.000 ppm
Li 670.784 {50} (Radial)	0.000 ppm
Mg 279.079 {121} (Radial)	0.000 ppm
Na 589.592 {57} (Radial)	0.000 ppm
Sr 421.552 {80} (Radial)	0.000 ppm
Ti 334.941 {101} (Radial)	0.000 ppm
V 292.402 {115} (Radial)	0.000 ppm
Co 228.616 {447} (Axial)	0.000 ppm
Ni 231.604 {446} (Axial)	0.000 ppm
Pb 220.353 {453} (Axial)	0.000 ppm
Sn 189.989 {478} (Axial)	0.000 ppm
Tl 190.856 {477} (Axial)	0.000 ppm
As 189.042 {478} (Axial)	0.000 ppm
Ba 233.527 {445} (Axial)	0.000 ppm
Mo 202.030 {467} (Axial)	0.000 ppm
S 182.034 {485} (Axial)	0.000 ppm
Si 251.611 {134} (Axial)	0.000 ppm
Sb 206.833 {463} (Axial)	0.000 ppm
Se 196.090 {472} (Axial)	0.000 ppm
Ag 328.068 {103} (Axial)	0.000 ppm
Cr 267.716 {126} (Axial)	0.000 ppm
Mn 257.610 {131} (Axial)	0.000 ppm
Y 360.073 {94} (Radial)	100.000 %
Y 224.306 {450} (Axial)	100.000 %
In 230.606 {446} (Axial)	100.000 %
Y 360.073 {94} (Axial)	100.000 %
Na 818.326 {41} (Radial)	0.000 ppm
Zn 206.200 {463} (Axial)	0.000 ppm
Cd 228.802 {447} (Axial)	0.000 ppm
Cu 324.754 {104} (Radial)	0.000 ppm

STD1 14G16199

Sample Type STD Analysis Date 11/26/2014 7:07:35 AM

Dilution Factor 1

Basic sample report

12/1/2014 1:56:44 PM

	Concentration average
Al 308.215 {109} (Radial)	0.073 ppm
B 249.678 {135} (Radial)	0.204 ppm
Be 313.042 {108} (Radial)	0.002 ppm
Ca 317.933 {106} (Radial)	0.563 ppm
Ca 373.690 {90} (Radial)	0.000 ppm
Fe 259.940 {130} (Radial)	0.133 ppm
Fe 271.441 {124} (Radial)	0.000 ppm
K 766.490 {44} (Radial)	0.520 ppm
Li 670.784 {50} (Radial)	0.016 ppm
Mg 279.079 {121} (Radial)	0.067 ppm
Na 589.592 {57} (Radial)	0.524 ppm
Sr 421.552 {80} (Radial)	0.011 ppm
Ti 334.941 {101} (Radial)	0.010 ppm
V 292.402 {115} (Radial)	0.008 ppm
Co 228.616 {447} (Axial)	0.010 ppm
Ni 231.604 {446} (Axial)	0.021 ppm
Pb 220.353 {453} (Axial)	0.006 ppm
Sn 189.989 {478} (Axial)	0.019 ppm
Tl 190.856 {477} (Axial)	0.020 ppm
As 189.042 {478} (Axial)	0.020 ppm
Ba 233.527 {445} (Axial)	0.006 ppm
Mo 202.030 {467} (Axial)	0.005 ppm
S 182.034 {485} (Axial)	4.596 ppm
Si 251.611 {134} (Axial)	0.165 ppm
Sb 206.833 {463} (Axial)	0.020 ppm
Se 196.090 {472} (Axial)	0.020 ppm
Ag 328.068 {103} (Axial)	0.009 ppm
Cr 267.716 {126} (Axial)	0.011 ppm
Mn 257.610 {131} (Axial)	0.011 ppm
Y 360.073 {94} (Radial)	102.039 %
Y 224.306 {450} (Axial)	100.917 %
In 230.606 {446} (Axial)	100.228 %
Y 360.073 {94} (Axial)	100.465 %
Na 818.326 {41} (Radial)	0.000 ppm
Zn 206.200 {463} (Axial)	0.033 ppm
Cd 228.802 {447} (Axial)	0.005 ppm
Cu 324.754 {104} (Radial)	0.021 ppm

STD7 14J27631

Sample Type STD Analysis Date 11/26/2014 7:12:03 AM

Dilution Factor 1

	Concentration average
Al 308.215 {109} (Radial)	0.000 ppm
B 249.678 {135} (Radial)	0.484 ppm
Be 313.042 {108} (Radial)	0.493 ppm
Ca 317.933 {106} (Radial)	0.532 ppm
Ca 373.690 {90} (Radial)	0.000 ppm
Fe 259.940 {130} (Radial)	0.000 ppm
Fe 271.441 {124} (Radial)	0.000 ppm
K 766.490 {44} (Radial)	0.000 ppm
Li 670.784 {50} (Radial)	0.502 ppm

Basic sample report

12/1/2014 1:56:44 PM

	Concentration average
Mg 279.079 {121} (Radial)	0.000 ppm
Na 589.592 {57} (Radial)	0.513 ppm
Sr 421.552 {80} (Radial)	0.499 ppm
Ti 334.941 {101} (Radial)	0.498 ppm
V 292.402 {115} (Radial)	0.498 ppm
Co 228.616 {447} (Axial)	0.489 ppm
Ni 231.604 {446} (Axial)	0.486 ppm
Pb 220.353 {453} (Axial)	0.494 ppm
Sn 189.989 {478} (Axial)	0.482 ppm
Tl 190.856 {477} (Axial)	0.493 ppm
As 189.042 {478} (Axial)	0.486 ppm
Ba 233.527 {445} (Axial)	0.000 ppm
Mo 202.030 {467} (Axial)	0.000 ppm
S 182.034 {485} (Axial)	0.000 ppm
Si 251.611 {134} (Axial)	0.453 ppm
Sb 206.833 {463} (Axial)	0.493 ppm
Se 196.090 {472} (Axial)	0.492 ppm
Ag 328.068 {103} (Axial)	0.493 ppm
Cr 267.716 {126} (Axial)	0.504 ppm
Mn 257.610 {131} (Axial)	0.504 ppm
Y 360.073 {94} (Radial)	103.209 %
Y 224.306 {450} (Axial)	101.156 %
In 230.606 {446} (Axial)	99.525 %
Y 360.073 {94} (Axial)	100.740 %
Na 818.326 {41} (Radial)	0.000 ppm
Zn 206.200 {463} (Axial)	0.499 ppm
Cd 228.802 {447} (Axial)	0.496 ppm
Cu 324.754 {104} (Radial)	0.491 ppm

STD2 14J08649

Sample Type STD Analysis Date 11/26/2014 7:16:21 AM

Dilution Factor 1

	Concentration average
Al 308.215 {109} (Radial)	0.000 ppm
B 249.678 {135} (Radial)	0.987 ppm
Be 313.042 {108} (Radial)	0.993 ppm
Ca 317.933 {106} (Radial)	1.031 ppm
Ca 373.690 {90} (Radial)	0.000 ppm
Fe 259.940 {130} (Radial)	1.024 ppm
Fe 271.441 {124} (Radial)	0.000 ppm
K 766.490 {44} (Radial)	0.000 ppm
Li 670.784 {50} (Radial)	1.000 ppm
Mg 279.079 {121} (Radial)	0.000 ppm
Na 589.592 {57} (Radial)	1.019 ppm
Sr 421.552 {80} (Radial)	1.001 ppm
Ti 334.941 {101} (Radial)	0.998 ppm
V 292.402 {115} (Radial)	0.998 ppm
Co 228.616 {447} (Axial)	0.985 ppm
Ni 231.604 {446} (Axial)	0.987 ppm
Pb 220.353 {453} (Axial)	1.003 ppm
Sn 189.989 {478} (Axial)	0.975 ppm

Basic sample report

12/1/2014 1:56:44 PM

	Concentration average
Tl 190.856 {477} (Axial)	1.003 ppm
As 189.042 {478} (Axial)	0.982 ppm
Ba 233.527 {445} (Axial)	1.044 ppm
Mo 202.030 {467} (Axial)	1.010 ppm
S 182.034 {485} (Axial)	0.936 ppm
Si 251.611 {134} (Axial)	0.963 ppm
Sb 206.833 {463} (Axial)	1.003 ppm
Se 196.090 {472} (Axial)	1.004 ppm
Ag 328.068 {103} (Axial)	1.004 ppm
Cr 267.716 {126} (Axial)	1.008 ppm
Mn 257.610 {131} (Axial)	1.008 ppm
Y 360.073 {94} (Radial)	103.741 %
Y 224.306 {450} (Axial)	100.406 %
In 230.606 {446} (Axial)	98.374 %
Y 360.073 {94} (Axial)	100.484 %
Na 818.326 {41} (Radial)	0.000 ppm
Zn 206.200 {463} (Axial)	1.005 ppm
Cd 228.802 {447} (Axial)	1.002 ppm
Cu 324.754 {104} (Radial)	0.996 ppm

STD3 14J06521

Sample Type STD Analysis Date 11/26/2014 7:20:32 AM

Dilution Factor 1

	Concentration average
Al 308.215 {109} (Radial)	0.000 ppm
B 249.678 {135} (Radial)	2.010 ppm
Be 313.042 {108} (Radial)	2.005 ppm
Ca 317.933 {106} (Radial)	2.035 ppm
Ca 373.690 {90} (Radial)	0.000 ppm
Fe 259.940 {130} (Radial)	2.042 ppm
Fe 271.441 {124} (Radial)	0.000 ppm
K 766.490 {44} (Radial)	0.000 ppm
Li 670.784 {50} (Radial)	1.999 ppm
Mg 279.079 {121} (Radial)	0.000 ppm
Na 589.592 {57} (Radial)	2.014 ppm
Sr 421.552 {80} (Radial)	2.000 ppm
Ti 334.941 {101} (Radial)	2.002 ppm
V 292.402 {115} (Radial)	2.001 ppm
Co 228.616 {447} (Axial)	2.010 ppm
Ni 231.604 {446} (Axial)	2.010 ppm
Pb 220.353 {453} (Axial)	0.000 ppm
Sn 189.989 {478} (Axial)	2.017 ppm
Tl 190.856 {477} (Axial)	0.000 ppm
As 189.042 {478} (Axial)	2.012 ppm
Ba 233.527 {445} (Axial)	2.079 ppm
Mo 202.030 {467} (Axial)	1.995 ppm
S 182.034 {485} (Axial)	1.954 ppm
Si 251.611 {134} (Axial)	2.034 ppm
Sb 206.833 {463} (Axial)	0.000 ppm
Se 196.090 {472} (Axial)	0.000 ppm
Ag 328.068 {103} (Axial)	0.000 ppm

Basic sample report

12/1/2014 1:56:44 PM

	Concentration average
Cr 267.716 {126} (Axial)	1.995 ppm
Mn 257.610 {131} (Axial)	1.995 ppm
Y 360.073 {94} (Radial)	105.313 %
Y 224.306 {450} (Axial)	101.136 %
In 230.606 {446} (Axial)	97.503 %
Y 360.073 {94} (Axial)	100.646 %
Na 818.326 {41} (Radial)	0.000 ppm
Zn 206.200 {463} (Axial)	1.998 ppm
Cd 228.802 {447} (Axial)	0.000 ppm
Cu 324.754 {104} (Radial)	2.004 ppm

STD4 14J27630

Sample Type STD Analysis Date 11/26/2014 7:24:41 AM

Dilution Factor 1

	Concentration average
Al 308.215 {109} (Radial)	9.946 ppm
B 249.678 {135} (Radial)	0.000 ppm
Be 313.042 {108} (Radial)	0.000 ppm
Ca 317.933 {106} (Radial)	9.985 ppm
Ca 373.690 {90} (Radial)	10.520 ppm
Fe 259.940 {130} (Radial)	9.989 ppm
Fe 271.441 {124} (Radial)	10.951 ppm
K 766.490 {44} (Radial)	9.879 ppm
Li 670.784 {50} (Radial)	0.000 ppm
Mg 279.079 {121} (Radial)	9.935 ppm
Na 589.592 {57} (Radial)	9.993 ppm
Sr 421.552 {80} (Radial)	0.000 ppm
Ti 334.941 {101} (Radial)	0.000 ppm
V 292.402 {115} (Radial)	0.000 ppm
Co 228.616 {447} (Axial)	0.000 ppm
Ni 231.604 {446} (Axial)	0.000 ppm
Pb 220.353 {453} (Axial)	0.000 ppm
Sn 189.989 {478} (Axial)	0.000 ppm
Tl 190.856 {477} (Axial)	0.000 ppm
As 189.042 {478} (Axial)	0.000 ppm
Ba 233.527 {445} (Axial)	9.980 ppm
Mo 202.030 {467} (Axial)	0.000 ppm
S 182.034 {485} (Axial)	10.096 ppm
Si 251.611 {134} (Axial)	0.000 ppm
Sb 206.833 {463} (Axial)	0.000 ppm
Se 196.090 {472} (Axial)	0.000 ppm
Ag 328.068 {103} (Axial)	0.000 ppm
Cr 267.716 {126} (Axial)	0.000 ppm
Mn 257.610 {131} (Axial)	0.000 ppm
Y 360.073 {94} (Radial)	105.860 %
Y 224.306 {450} (Axial)	100.742 %
In 230.606 {446} (Axial)	96.275 %
Y 360.073 {94} (Axial)	100.358 %
Na 818.326 {41} (Radial)	10.697 ppm
Zn 206.200 {463} (Axial)	0.000 ppm
Cd 228.802 {447} (Axial)	0.000 ppm

Basic sample report

12/1/2014 1:56:44 PM

	Concentration average
Cu 324.754 {104} (Radial)	0.000 ppm

STD5 14J08650

Sample Type STD Analysis Date 11/26/2014 7:29:06 AM

Dilution Factor 1

	Concentration average
Al 308.215 {109} (Radial)	249.837 ppm
B 249.678 {135} (Radial)	0.000 ppm
Be 313.042 {108} (Radial)	0.000 ppm
Ca 317.933 {106} (Radial)	0.000 ppm
Ca 373.690 {90} (Radial)	253.615 ppm
Fe 259.940 {130} (Radial)	0.000 ppm
Fe 271.441 {124} (Radial)	102.300 ppm
K 766.490 {44} (Radial)	49.428 ppm
Li 670.784 {50} (Radial)	0.000 ppm
Mg 279.079 {121} (Radial)	250.831 ppm
Na 589.592 {57} (Radial)	0.000 ppm
Sr 421.552 {80} (Radial)	0.000 ppm
Ti 334.941 {101} (Radial)	0.000 ppm
V 292.402 {115} (Radial)	0.000 ppm
Co 228.616 {447} (Axial)	0.000 ppm
Ni 231.604 {446} (Axial)	0.000 ppm
Pb 220.353 {453} (Axial)	0.000 ppm
Sn 189.989 {478} (Axial)	0.000 ppm
Tl 190.856 {477} (Axial)	0.000 ppm
As 189.042 {478} (Axial)	0.000 ppm
Ba 233.527 {445} (Axial)	0.000 ppm
Mo 202.030 {467} (Axial)	0.000 ppm
S 182.034 {485} (Axial)	48.505 ppm
Si 251.611 {134} (Axial)	0.000 ppm
Sb 206.833 {463} (Axial)	0.000 ppm
Se 196.090 {472} (Axial)	0.000 ppm
Ag 328.068 {103} (Axial)	0.000 ppm
Cr 267.716 {126} (Axial)	0.000 ppm
Mn 257.610 {131} (Axial)	0.000 ppm
Y 360.073 {94} (Radial)	98.338 %
Y 224.306 {450} (Axial)	88.000 %
In 230.606 {446} (Axial)	73.655 %
Y 360.073 {94} (Axial)	87.627 %
Na 818.326 {41} (Radial)	248.429 ppm
Zn 206.200 {463} (Axial)	0.000 ppm
Cd 228.802 {447} (Axial)	0.000 ppm
Cu 324.754 {104} (Radial)	0.000 ppm

STD6 14I24985

Sample Type STD Analysis Date 11/26/2014 7:33:40 AM

Dilution Factor 1

Basic sample report

12/1/2014 1:56:44 PM

	Concentration average
Al 308.215 {109} (Radial)	500.082 ppm
B 249.678 {135} (Radial)	0.000 ppm
Be 313.042 {108} (Radial)	0.000 ppm
Ca 317.933 {106} (Radial)	0.000 ppm
Ca 373.690 {90} (Radial)	498.182 ppm
Fe 259.940 {130} (Radial)	0.000 ppm
Fe 271.441 {124} (Radial)	198.802 ppm
K 766.490 {44} (Radial)	100.298 ppm
Li 670.784 {50} (Radial)	0.000 ppm
Mg 279.079 {121} (Radial)	499.586 ppm
Na 589.592 {57} (Radial)	0.000 ppm
Sr 421.552 {80} (Radial)	0.000 ppm
Ti 334.941 {101} (Radial)	0.000 ppm
V 292.402 {115} (Radial)	0.000 ppm
Co 228.616 {447} (Axial)	0.000 ppm
Ni 231.604 {446} (Axial)	0.000 ppm
Pb 220.353 {453} (Axial)	0.000 ppm
Sn 189.989 {478} (Axial)	0.000 ppm
Tl 190.856 {477} (Axial)	0.000 ppm
As 189.042 {478} (Axial)	0.000 ppm
Ba 233.527 {445} (Axial)	0.000 ppm
Mo 202.030 {467} (Axial)	0.000 ppm
S 182.034 {485} (Axial)	100.760 ppm
Si 251.611 {134} (Axial)	0.000 ppm
Sb 206.833 {463} (Axial)	0.000 ppm
Se 196.090 {472} (Axial)	0.000 ppm
Ag 328.068 {103} (Axial)	0.000 ppm
Cr 267.716 {126} (Axial)	0.000 ppm
Mn 257.610 {131} (Axial)	0.000 ppm
Y 360.073 {94} (Radial)	98.305 %
Y 224.306 {450} (Axial)	83.959 %
In 230.606 {446} (Axial)	66.835 %
Y 360.073 {94} (Axial)	84.015 %
Na 818.326 {41} (Radial)	500.771 ppm
Zn 206.200 {463} (Axial)	0.000 ppm
Cd 228.802 {447} (Axial)	0.000 ppm
Cu 324.754 {104} (Radial)	0.000 ppm

ICV 14I23903

Sample Type QC Analysis Date 11/26/2014 7:38:14 AM

Dilution Factor 1

	Concentration average	Recovery Percentage 1
Al 308.215 {109} (Radial)	9.906 ppm	98.620 %
B 249.678 {135} (Radial)	1.015 ppm	101.317 %
Be 313.042 {108} (Radial)	1.004 ppm	100.261 %
Ca 317.933 {106} (Radial)	10.129 ppm	101.162 %
Ca 373.690 {90} (Radial)	10.647 ppm	105.801 %
Fe 259.940 {130} (Radial)	10.180 ppm	101.643 %
Fe 271.441 {124} (Radial)	11.135 ppm	110.058 %
K 766.490 {44} (Radial)	9.849 ppm	98.425 %
Li 670.784 {50} (Radial)	1.002 ppm	100.246 %

Basic sample report

12/1/2014 1:56:44 PM

	Concentration average	Recovery Percentage 1
Mg 279.079 {121} (Radial)	9.944 ppm	100.123 %
Na 589.592 {57} (Radial)	9.871 ppm	98.880 %
Sr 421.552 {80} (Radial)	0.407 ppm	101.840 %
Ti 334.941 {101} (Radial)	0.989 ppm	98.870 %
V 292.402 {115} (Radial)	1.012 ppm	100.871 %
Co 228.616 {447} (Axial)	1.026 ppm	101.325 %
Ni 231.604 {446} (Axial)	1.015 ppm	100.300 %
Pb 220.353 {453} (Axial)	1.026 ppm	101.232 %
Sn 189.989 {478} (Axial)	0.994 ppm	97.922 %
Tl 190.856 {477} (Axial)	1.018 ppm	100.002 %
As 189.042 {478} (Axial)	1.021 ppm	101.052 %
Ba 233.527 {445} (Axial)	1.057 ppm	104.324 %
Mo 202.030 {467} (Axial)	1.027 ppm	101.240 %
S 182.034 {485} (Axial)	0.011 ppm	0.111 %
Si 251.611 {134} (Axial)	0.963 ppm	96.357 %
Sb 206.833 {463} (Axial)	1.021 ppm	100.969 %
Se 196.090 {472} (Axial)	1.046 ppm	102.909 %
Ag 328.068 {103} (Axial)	0.097 ppm	97.586 %
Cr 267.716 {126} (Axial)	1.012 ppm	100.863 %
Mn 257.610 {131} (Axial)	1.010 ppm	100.546 %
Y 360.073 {94} (Radial)	103.355 %	
Y 224.306 {450} (Axial)	97.105 %	
In 230.606 {446} (Axial)	92.945 %	
Y 360.073 {94} (Axial)	98.499 %	
Na 818.326 {41} (Radial)	10.347 ppm	103.437 %
Zn 206.200 {463} (Axial)	1.019 ppm	100.417 %
Cd 228.802 {447} (Axial)	1.032 ppm	101.568 %
Cu 324.754 {104} (Radial)	1.002 ppm	100.267 %

ICB

Sample Type QC Analysis Date 11/26/2014 7:42:27 AM

Dilution Factor 1

	Concentration average	Recovery Percentage 1
Al 308.215 {109} (Radial)	-0.013 ppm	61.910 %
B 249.678 {135} (Radial)	0.007 ppm	5.621 %
Be 313.042 {108} (Radial)	0.000 ppm	-8.525 %
Ca 317.933 {106} (Radial)	-0.002 ppm	-0.785 %
Ca 373.690 {90} (Radial)	-0.011 ppm	
Fe 259.940 {130} (Radial)	0.000 ppm	-5.606 %
Fe 271.441 {124} (Radial)	-0.043 ppm	
K 766.490 {44} (Radial)	0.030 ppm	4.771 %
Li 670.784 {50} (Radial)	0.000 ppm	4.042 %
Mg 279.079 {121} (Radial)	-0.028 ppm	-29.231 %
Na 589.592 {57} (Radial)	0.027 ppm	11.490 %
Sr 421.552 {80} (Radial)	0.000 ppm	-0.670 %
Ti 334.941 {101} (Radial)	-0.001 ppm	-9.321 %
V 292.402 {115} (Radial)	0.003 ppm	22.021 %
Co 228.616 {447} (Axial)	0.000 ppm	-0.654 %
Ni 231.604 {446} (Axial)	0.000 ppm	0.777 %
Pb 220.353 {453} (Axial)	0.000 ppm	-3.845 %
Sn 189.989 {478} (Axial)	0.001 ppm	13.963 %

Basic sample report

12/1/2014 1:56:44 PM

	Concentration average	Recovery Percentage 1
Tl 190.856 {477} (Axial)	0.000 ppm	-3.286 %
As 189.042 {478} (Axial)	0.002 ppm	40.555 %
Ba 233.527 {445} (Axial)	0.000 ppm	1.665 %
Mo 202.030 {467} (Axial)	0.000 ppm	-0.160 %
S 182.034 {485} (Axial)	0.002 ppm	2.693 %
Si 251.611 {134} (Axial)	-0.025 ppm	-47.006 %
Sb 206.833 {463} (Axial)	0.000 ppm	-6.355 %
Se 196.090 {472} (Axial)	-0.003 ppm	-52.348 %
Ag 328.068 {103} (Axial)	0.000 ppm	-13.690 %
Cr 267.716 {126} (Axial)	0.001 ppm	7.170 %
Mn 257.610 {131} (Axial)	0.000 ppm	0.422 %
Y 360.073 {94} (Radial)	102.713 %	
Y 224.306 {450} (Axial)	99.338 %	
In 230.606 {446} (Axial)	99.779 %	
Y 360.073 {94} (Axial)	100.809 %	
Na 818.326 {41} (Radial)	0.149 ppm	
Zn 206.200 {463} (Axial)	0.000 ppm	0.307 %
Cd 228.802 {447} (Axial)	0.000 ppm	1.477 %
Cu 324.754 {104} (Radial)	0.001 ppm	-0.233 %

ICVLL 14G16199

Sample Type QC Analysis Date 11/26/2014 7:46:59 AM

Dilution Factor 1

	Concentration average	Recovery Percentage 1
Al 308.215 {109} (Radial)	0.079 ppm	71.511 %
B 249.678 {135} (Radial)	0.196 ppm	97.370 %
Be 313.042 {108} (Radial)	0.002 ppm	97.197 %
Ca 317.933 {106} (Radial)	0.496 ppm	97.754 %
Ca 373.690 {90} (Radial)	0.509 ppm	101.140 %
Fe 259.940 {130} (Radial)	0.100 ppm	99.221 %
Fe 271.441 {124} (Radial)	0.159 ppm	182.738 %
K 766.490 {44} (Radial)	0.485 ppm	97.604 %
Li 670.784 {50} (Radial)	0.015 ppm	101.167 %
Mg 279.079 {121} (Radial)	0.097 ppm	76.911 %
Na 589.592 {57} (Radial)	0.508 ppm	102.071 %
Sr 421.552 {80} (Radial)	0.010 ppm	98.029 %
Ti 334.941 {101} (Radial)	0.009 ppm	83.074 %
V 292.402 {115} (Radial)	0.007 ppm	92.827 %
Co 228.616 {447} (Axial)	0.010 ppm	95.472 %
Ni 231.604 {446} (Axial)	0.020 ppm	96.500 %
Pb 220.353 {453} (Axial)	0.005 ppm	118.792 %
Sn 189.989 {478} (Axial)	0.019 ppm	96.255 %
Tl 190.856 {477} (Axial)	0.019 ppm	91.989 %
As 189.042 {478} (Axial)	0.019 ppm	88.000 %
Ba 233.527 {445} (Axial)	0.005 ppm	108.074 %
Mo 202.030 {467} (Axial)	0.005 ppm	109.454 %
S 182.034 {485} (Axial)	4.407 ppm	88.091 %
Si 251.611 {134} (Axial)	0.159 ppm	79.775 %
Sb 206.833 {463} (Axial)	0.020 ppm	95.238 %
Se 196.090 {472} (Axial)	0.019 ppm	100.822 %
Ag 328.068 {103} (Axial)	0.009 ppm	95.165 %

Basic sample report

12/1/2014 1:56:44 PM

	Concentration average	Recovery Percentage 1
Cr 267.716 {126} (Axial)	0.010 ppm	101.215 %
Mn 257.610 {131} (Axial)	0.010 ppm	102.538 %
Y 360.073 {94} (Radial)	103.654 %	
Y 224.306 {450} (Axial)	99.629 %	
In 230.606 {446} (Axial)	99.615 %	
Y 360.073 {94} (Axial)	100.712 %	
Na 818.326 {41} (Radial)	0.575 ppm	116.038 %
Zn 206.200 {463} (Axial)	0.030 ppm	97.573 %
Cd 228.802 {447} (Axial)	0.005 ppm	105.153 %
Cu 324.754 {104} (Radial)	0.019 ppm	97.847 %

ICSA 14J10823

Sample Type QC Analysis Date 11/26/2014 7:51:30 AM

Dilution Factor 1

	Concentration average	Recovery Percentage 1
Al 308.215 {109} (Radial)	499.025 ppm	100.408 %
B 249.678 {135} (Radial)	0.006 ppm	Infinity %
Be 313.042 {108} (Radial)	0.000 ppm	Infinity %
Ca 317.933 {106} (Radial)	456.456 ppm	91.491 %
Ca 373.690 {90} (Radial)	497.741 ppm	99.809 %
Fe 259.940 {130} (Radial)	176.817 ppm	88.694 %
Fe 271.441 {124} (Radial)	200.897 ppm	100.613 %
K 766.490 {44} (Radial)	0.050 ppm	Infinity %
Li 670.784 {50} (Radial)	0.004 ppm	Infinity %
Mg 279.079 {121} (Radial)	512.464 ppm	102.634 %
Na 589.592 {57} (Radial)	0.061 ppm	Infinity %
Sr 421.552 {80} (Radial)	0.007 ppm	Infinity %
Ti 334.941 {101} (Radial)	-0.001 ppm	-Infinity %
V 292.402 {115} (Radial)	0.010 ppm	Infinity %
Co 228.616 {447} (Axial)	0.001 ppm	Infinity %
Ni 231.604 {446} (Axial)	-0.013 ppm	-Infinity %
Pb 220.353 {453} (Axial)	-0.027 ppm	-Infinity %
Sn 189.989 {478} (Axial)	0.000 ppm	
Tl 190.856 {477} (Axial)	-0.007 ppm	-Infinity %
As 189.042 {478} (Axial)	-0.003 ppm	Infinity %
Ba 233.527 {445} (Axial)	0.003 ppm	Infinity %
Mo 202.030 {467} (Axial)	-0.002 ppm	-Infinity %
S 182.034 {485} (Axial)	0.002 ppm	-Infinity %
Si 251.611 {134} (Axial)	-0.032 ppm	-Infinity %
Sb 206.833 {463} (Axial)	-0.005 ppm	-Infinity %
Se 196.090 {472} (Axial)	0.019 ppm	Infinity %
Ag 328.068 {103} (Axial)	0.000 ppm	Infinity %
Cr 267.716 {126} (Axial)	0.002 ppm	Infinity %
Mn 257.610 {131} (Axial)	-0.004 ppm	-Infinity %
Y 360.073 {94} (Radial)	98.100 %	
Y 224.306 {450} (Axial)	85.962 %	
In 230.606 {446} (Axial)	71.917 %	
Y 360.073 {94} (Axial)	86.975 %	
Na 818.326 {41} (Radial)	0.185 ppm	Infinity %
Zn 206.200 {463} (Axial)	0.003 ppm	Infinity %
Cd 228.802 {447} (Axial)	-0.001 ppm	-Infinity %

Basic sample report

12/1/2014 1:56:44 PM

	Concentration average	Recovery Percentage 1
Cu 324.754 {104} (Radial)	0.004 ppm	Infinity %

ICSAB 14J10824

Sample Type QC Analysis Date 11/26/2014 7:55:59 AM

Dilution Factor 1

	Concentration average	Recovery Percentage 1
Al 308.215 {109} (Radial)	497.574 ppm	98.227 %
B 249.678 {135} (Radial)	0.981 ppm	97.598 %
Be 313.042 {108} (Radial)	0.481 ppm	95.507 %
Ca 317.933 {106} (Radial)	457.847 ppm	91.553 %
Ca 373.690 {90} (Radial)	498.885 ppm	99.511 %
Fe 259.940 {130} (Radial)	177.114 ppm	88.330 %
Fe 271.441 {124} (Radial)	201.599 ppm	100.679 %
K 766.490 {44} (Radial)	0.034 ppm	Infinity %
Li 670.784 {50} (Radial)	0.004 ppm	Infinity %
Mg 279.079 {121} (Radial)	514.219 ppm	103.096 %
Na 589.592 {57} (Radial)	0.059 ppm	Infinity %
Sr 421.552 {80} (Radial)	0.007 ppm	Infinity %
Ti 334.941 {101} (Radial)	0.472 ppm	Infinity %
V 292.402 {115} (Radial)	0.472 ppm	94.910 %
Co 228.616 {447} (Axial)	0.494 ppm	98.935 %
Ni 231.604 {446} (Axial)	0.958 ppm	96.023 %
Pb 220.353 {453} (Axial)	0.941 ppm	94.176 %
Sn 189.989 {478} (Axial)	0.490 ppm	Infinity %
Tl 190.856 {477} (Axial)	0.458 ppm	90.602 %
As 189.042 {478} (Axial)	0.503 ppm	100.566 %
Ba 233.527 {445} (Axial)	0.480 ppm	96.038 %
Mo 202.030 {467} (Axial)	0.458 ppm	91.770 %
S 182.034 {485} (Axial)	-0.001 ppm	
Si 251.611 {134} (Axial)	0.996 ppm	Infinity %
Sb 206.833 {463} (Axial)	0.512 ppm	101.297 %
Se 196.090 {472} (Axial)	0.541 ppm	107.316 %
Ag 328.068 {103} (Axial)	1.099 ppm	109.649 %
Cr 267.716 {126} (Axial)	0.458 ppm	90.704 %
Mn 257.610 {131} (Axial)	0.452 ppm	89.876 %
Y 360.073 {94} (Radial)	97.772 %	
Y 224.306 {450} (Axial)	85.786 %	
In 230.606 {446} (Axial)	71.823 %	
Y 360.073 {94} (Axial)	86.579 %	
Na 818.326 {41} (Radial)	0.139 ppm	Infinity %
Zn 206.200 {463} (Axial)	0.884 ppm	88.367 %
Cd 228.802 {447} (Axial)	1.043 ppm	104.303 %
Cu 324.754 {104} (Radial)	0.491 ppm	97.201 %

carryover

Sample Type UNKNOWN Analysis Date 11/26/2014 8:00:11 AM

Dilution Factor 1

Basic sample report

12/1/2014 1:56:44 PM

	Concentration average
Zn 206.200 {463} (Axial)	87.841 ppm
Cd 228.802 {447} (Axial)	92.485 ppm
Cu 324.754 {104} (Radial)	88.178 ppm

CCV 14J24642

Sample Type QC Analysis Date 11/26/2014 11:05:25 AM

Dilution Factor 1

	Concentration average	Recovery Percentage 1
Al 308.215 {109} (Radial)	9.191 ppm	91.426 %
B 249.678 {135} (Radial)	1.842 ppm	91.993 %
Be 313.042 {108} (Radial)	0.189 ppm	93.937 %
Ca 317.933 {106} (Radial)	46.313 ppm	92.479 %
Ca 373.690 {90} (Radial)	48.256 ppm	96.283 %
Fe 259.940 {130} (Radial)	9.196 ppm	91.699 %
Fe 271.441 {124} (Radial)	10.238 ppm	99.875 %
K 766.490 {44} (Radial)	44.740 ppm	89.313 %
Li 670.784 {50} (Radial)	1.344 ppm	89.421 %
Mg 279.079 {121} (Radial)	8.985 ppm	89.760 %
Na 589.592 {57} (Radial)	44.974 ppm	89.858 %
Sr 421.552 {80} (Radial)	0.909 ppm	90.539 %
Ti 334.941 {101} (Radial)	0.922 ppm	92.228 %
V 292.402 {115} (Radial)	0.920 ppm	91.268 %
Co 228.616 {447} (Axial)	0.942 ppm	94.095 %
Ni 231.604 {446} (Axial)	1.865 ppm	93.285 %
Pb 220.353 {453} (Axial)	0.464 ppm	93.376 %
Sn 189.989 {478} (Axial)	1.864 ppm	93.034 %
Tl 190.856 {477} (Axial)	1.868 ppm	93.591 %
As 189.042 {478} (Axial)	1.895 ppm	94.471 %
Ba 233.527 {445} (Axial)	0.478 ppm	95.606 %
Mo 202.030 {467} (Axial)	0.461 ppm	91.981 %
S 182.034 {485} (Axial)	4.471 ppm	89.765 %
Si 251.611 {134} (Axial)	1.852 ppm	93.150 %
Sb 206.833 {463} (Axial)	1.923 ppm	96.601 %
Se 196.090 {472} (Axial)	1.963 ppm	98.437 %
Ag 328.068 {103} (Axial)	0.911 ppm	90.931 %
Cr 267.716 {126} (Axial)	0.892 ppm	89.397 %
Mn 257.610 {131} (Axial)	0.899 ppm	90.298 %
Y 360.073 {94} (Radial)	109.633 %	
Y 224.306 {450} (Axial)	101.478 %	
In 230.606 {446} (Axial)	93.791 %	
Y 360.073 {94} (Axial)	103.975 %	
Na 818.326 {41} (Radial)	46.320 ppm	92.229 %
Zn 206.200 {463} (Axial)	2.703 ppm	89.968 %
Cd 228.802 {447} (Axial)	0.498 ppm	99.840 %
Cu 324.754 {104} (Radial)	1.840 ppm	91.889 %

CCB

Sample Type QC Analysis Date 11/26/2014 11:09:34 AM

Basic sample report

12/1/2014 1:56:44 PM

Dilution Factor 1

	Concentration average	Recovery Percentage 1
Al 308.215 {109} (Radial)	-0.004 ppm	15.258 %
B 249.678 {135} (Radial)	0.005 ppm	5.622 %
Be 313.042 {108} (Radial)	0.000 ppm	-2.400 %
Ca 317.933 {106} (Radial)	0.000 ppm	0.693 %
Ca 373.690 {90} (Radial)	-0.006 ppm	
Fe 259.940 {130} (Radial)	0.002 ppm	0.030 %
Fe 271.441 {124} (Radial)	0.079 ppm	
K 766.490 {44} (Radial)	0.011 ppm	0.717 %
Li 670.784 {50} (Radial)	0.000 ppm	-4.668 %
Mg 279.079 {121} (Radial)	-0.046 ppm	-20.264 %
Na 589.592 {57} (Radial)	0.004 ppm	-0.796 %
Sr 421.552 {80} (Radial)	0.000 ppm	2.445 %
Ti 334.941 {101} (Radial)	0.000 ppm	3.674 %
V 292.402 {115} (Radial)	0.000 ppm	17.540 %
Co 228.616 {447} (Axial)	0.000 ppm	2.123 %
Ni 231.604 {446} (Axial)	0.000 ppm	4.286 %
Pb 220.353 {453} (Axial)	0.001 ppm	13.619 %
Sn 189.989 {478} (Axial)	0.000 ppm	1.777 %
Tl 190.856 {477} (Axial)	0.001 ppm	14.347 %
As 189.042 {478} (Axial)	0.003 ppm	23.345 %
Ba 233.527 {445} (Axial)	0.000 ppm	-0.275 %
Mo 202.030 {467} (Axial)	0.000 ppm	0.118 %
S 182.034 {485} (Axial)	0.010 ppm	19.196 %
Si 251.611 {134} (Axial)	-0.034 ppm	-65.529 %
Sb 206.833 {463} (Axial)	-0.001 ppm	-24.045 %
Se 196.090 {472} (Axial)	-0.001 ppm	-17.581 %
Ag 328.068 {103} (Axial)	0.000 ppm	-5.706 %
Cr 267.716 {126} (Axial)	0.001 ppm	8.128 %
Mn 257.610 {131} (Axial)	0.000 ppm	0.897 %
Y 360.073 {94} (Radial)	110.554 %	
Y 224.306 {450} (Axial)	106.430 %	
In 230.606 {446} (Axial)	106.782 %	
Y 360.073 {94} (Axial)	108.069 %	
Na 818.326 {41} (Radial)	0.235 ppm	
Zn 206.200 {463} (Axial)	0.000 ppm	-0.838 %
Cd 228.802 {447} (Axial)	0.000 ppm	0.254 %
Cu 324.754 {104} (Radial)	-0.001 ppm	0.028 %

CCV 14J24642

Sample Type QC Analysis Date 11/26/2014 11:50:35 AM

Dilution Factor 1

	Concentration average	Recovery Percentage 1
Al 308.215 {109} (Radial)	9.244 ppm	93.260 %
B 249.678 {135} (Radial)	1.834 ppm	91.831 %
Be 313.042 {108} (Radial)	0.188 ppm	93.839 %
Ca 317.933 {106} (Radial)	46.252 ppm	92.936 %
Ca 373.690 {90} (Radial)	48.286 ppm	97.026 %
Fe 259.940 {130} (Radial)	9.176 ppm	92.151 %
Fe 271.441 {124} (Radial)	10.152 ppm	102.018 %

Basic sample report

12/1/2014 1:56:44 PM

	Concentration average	Recovery Percentage 1
K 766.490 {44} (Radial)	44.399 ppm	88.589 %
Li 670.784 {50} (Radial)	1.324 ppm	87.643 %
Mg 279.079 {121} (Radial)	8.970 ppm	89.897 %
Na 589.592 {57} (Radial)	44.509 ppm	88.657 %
Sr 421.552 {80} (Radial)	0.902 ppm	89.818 %
Ti 334.941 {101} (Radial)	0.917 ppm	91.800 %
V 292.402 {115} (Radial)	0.915 ppm	91.249 %
Co 228.616 {447} (Axial)	0.926 ppm	93.018 %
Ni 231.604 {446} (Axial)	1.829 ppm	91.718 %
Pb 220.353 {453} (Axial)	0.449 ppm	90.139 %
Sn 189.989 {478} (Axial)	1.822 ppm	90.982 %
Tl 190.856 {477} (Axial)	1.802 ppm	90.505 %
As 189.042 {478} (Axial)	1.854 ppm	93.048 %
Ba 233.527 {445} (Axial)	0.471 ppm	94.402 %
Mo 202.030 {467} (Axial)	0.457 ppm	91.476 %
S 182.034 {485} (Axial)	4.243 ppm	85.064 %
Si 251.611 {134} (Axial)	1.797 ppm	89.778 %
Sb 206.833 {463} (Axial)	1.863 ppm	93.324 %
Se 196.090 {472} (Axial)	1.903 ppm	95.523 %
Ag 328.068 {103} (Axial)	0.891 ppm	89.289 %
Cr 267.716 {126} (Axial)	0.898 ppm	90.250 %
Mn 257.610 {131} (Axial)	0.892 ppm	89.406 %
Y 360.073 {94} (Radial)	106.462 %	
Y 224.306 {450} (Axial)	100.355 %	
In 230.606 {446} (Axial)	92.684 %	
Y 360.073 {94} (Axial)	101.897 %	
Na 818.326 {41} (Radial)	45.992 ppm	91.519 %
Zn 206.200 {463} (Axial)	2.691 ppm	89.893 %
Cd 228.802 {447} (Axial)	0.482 ppm	96.886 %
Cu 324.754 {104} (Radial)	1.827 ppm	90.828 %

CCB

Sample Type QC Analysis Date 11/26/2014 12:05:56 PM

Dilution Factor 1

	Concentration average	Recovery Percentage 1
Al 308.215 {109} (Radial)	-0.063 ppm	-79.705 %
B 249.678 {135} (Radial)	-0.001 ppm	3.807 %
Be 313.042 {108} (Radial)	0.000 ppm	-6.514 %
Ca 317.933 {106} (Radial)	0.007 ppm	5.222 %
Ca 373.690 {90} (Radial)	0.006 ppm	
Fe 259.940 {130} (Radial)	0.001 ppm	3.086 %
Fe 271.441 {124} (Radial)	-0.040 ppm	
K 766.490 {44} (Radial)	0.029 ppm	9.514 %
Li 670.784 {50} (Radial)	0.000 ppm	-1.333 %
Mg 279.079 {121} (Radial)	-0.024 ppm	-8.575 %
Na 589.592 {57} (Radial)	0.005 ppm	4.104 %
Sr 421.552 {80} (Radial)	0.000 ppm	0.010 %
Ti 334.941 {101} (Radial)	0.001 ppm	3.664 %
V 292.402 {115} (Radial)	-0.002 ppm	-31.400 %
Co 228.616 {447} (Axial)	0.000 ppm	0.995 %
Ni 231.604 {446} (Axial)	0.000 ppm	2.154 %

Basic sample report

12/1/2014 1:56:44 PM

	Concentration average	Recovery Percentage 1
Pb 220.353 {453} (Axial)	0.001 ppm	8.843 %
Sn 189.989 {478} (Axial)	0.000 ppm	-2.396 %
Tl 190.856 {477} (Axial)	0.001 ppm	11.034 %
As 189.042 {478} (Axial)	0.003 ppm	28.869 %
Ba 233.527 {445} (Axial)	0.000 ppm	2.986 %
Mo 202.030 {467} (Axial)	0.000 ppm	-0.110 %
S 182.034 {485} (Axial)	0.007 ppm	15.298 %
Si 251.611 {134} (Axial)	-0.034 ppm	-64.000 %
Sb 206.833 {463} (Axial)	-0.002 ppm	-14.374 %
Se 196.090 {472} (Axial)	-0.001 ppm	10.927 %
Ag 328.068 {103} (Axial)	0.000 ppm	-1.589 %
Cr 267.716 {126} (Axial)	0.000 ppm	4.049 %
Mn 257.610 {131} (Axial)	0.000 ppm	0.985 %
Y 360.073 {94} (Radial)	109.736 %	
Y 224.306 {450} (Axial)	106.915 %	
In 230.606 {446} (Axial)	105.261 %	
Y 360.073 {94} (Axial)	107.477 %	
Na 818.326 {41} (Radial)	0.134 ppm	
Zn 206.200 {463} (Axial)	0.000 ppm	-0.739 %
Cd 228.802 {447} (Axial)	0.000 ppm	-0.989 %
Cu 324.754 {104} (Radial)	-0.005 ppm	-0.635 %

CALBLK

Sample Type BLK Analysis Date 11/26/2014 12:10:29 PM

Dilution Factor 1

	Concentration average
Al 308.215 {109} (Radial)	0.000 ppm
B 249.678 {135} (Radial)	0.000 ppm
Be 313.042 {108} (Radial)	0.000 ppm
Ca 317.933 {106} (Radial)	0.000 ppm
Ca 373.690 {90} (Radial)	0.000 ppm
Fe 259.940 {130} (Radial)	0.000 ppm
Fe 271.441 {124} (Radial)	0.000 ppm
K 766.490 {44} (Radial)	0.000 ppm
Li 670.784 {50} (Radial)	0.000 ppm
Mg 279.079 {121} (Radial)	0.000 ppm
Na 589.592 {57} (Radial)	0.000 ppm
Sr 421.552 {80} (Radial)	0.000 ppm
Ti 334.941 {101} (Radial)	0.000 ppm
V 292.402 {115} (Radial)	0.000 ppm
Co 228.616 {447} (Axial)	0.000 ppm
Ni 231.604 {446} (Axial)	0.000 ppm
Pb 220.353 {453} (Axial)	0.000 ppm
Sn 189.989 {478} (Axial)	0.000 ppm
Tl 190.856 {477} (Axial)	0.000 ppm
As 189.042 {478} (Axial)	0.000 ppm
Ba 233.527 {445} (Axial)	0.000 ppm
Mo 202.030 {467} (Axial)	0.000 ppm
S 182.034 {485} (Axial)	0.000 ppm
Si 251.611 {134} (Axial)	0.000 ppm
Sb 206.833 {463} (Axial)	0.000 ppm

Basic sample report

12/1/2014 1:56:44 PM

	Concentration average
Se 196.090 {472} (Axial)	0.000 ppm
Ag 328.068 {103} (Axial)	0.000 ppm
Cr 267.716 {126} (Axial)	0.000 ppm
Mn 257.610 {131} (Axial)	0.000 ppm
Y 360.073 {94} (Radial)	100.000 %
Y 224.306 {450} (Axial)	100.000 %
In 230.606 {446} (Axial)	100.000 %
Y 360.073 {94} (Axial)	100.000 %
Na 818.326 {41} (Radial)	0.000 ppm
Zn 206.200 {463} (Axial)	0.000 ppm
Cd 228.802 {447} (Axial)	0.000 ppm
Cu 324.754 {104} (Radial)	0.000 ppm

STD1 14G16199

Sample Type STD Analysis Date 11/26/2014 12:15:00 PM

Dilution Factor 1

	Concentration average
Al 308.215 {109} (Radial)	0.120 ppm
B 249.678 {135} (Radial)	0.197 ppm
Be 313.042 {108} (Radial)	0.002 ppm
Ca 317.933 {106} (Radial)	0.485 ppm
Ca 373.690 {90} (Radial)	0.000 ppm
Fe 259.940 {130} (Radial)	0.103 ppm
Fe 271.441 {124} (Radial)	0.000 ppm
K 766.490 {44} (Radial)	0.468 ppm
Li 670.784 {50} (Radial)	0.015 ppm
Mg 279.079 {121} (Radial)	0.096 ppm
Na 589.592 {57} (Radial)	0.477 ppm
Sr 421.552 {80} (Radial)	0.010 ppm
Ti 334.941 {101} (Radial)	0.010 ppm
V 292.402 {115} (Radial)	0.015 ppm
Co 228.616 {447} (Axial)	0.009 ppm
Ni 231.604 {446} (Axial)	0.019 ppm
Pb 220.353 {453} (Axial)	0.005 ppm
Sn 189.989 {478} (Axial)	0.018 ppm
Tl 190.856 {477} (Axial)	0.020 ppm
As 189.042 {478} (Axial)	0.018 ppm
Ba 233.527 {445} (Axial)	0.005 ppm
Mo 202.030 {467} (Axial)	0.005 ppm
S 182.034 {485} (Axial)	4.238 ppm
Si 251.611 {134} (Axial)	0.181 ppm
Sb 206.833 {463} (Axial)	0.017 ppm
Se 196.090 {472} (Axial)	0.018 ppm
Ag 328.068 {103} (Axial)	0.009 ppm
Cr 267.716 {126} (Axial)	0.009 ppm
Mn 257.610 {131} (Axial)	0.010 ppm
Y 360.073 {94} (Radial)	100.684 %
Y 224.306 {450} (Axial)	100.548 %
In 230.606 {446} (Axial)	99.764 %
Y 360.073 {94} (Axial)	100.347 %
Na 818.326 {41} (Radial)	0.000 ppm

	Concentration average
Zn 206.200 {463} (Axial)	0.029 ppm
Cd 228.802 {447} (Axial)	0.005 ppm
Cu 324.754 {104} (Radial)	0.018 ppm

STD7 14J27631

Sample Type STD Analysis Date 11/26/2014 12:19:29 PM

Dilution Factor 1

	Concentration average
Al 308.215 {109} (Radial)	0.000 ppm
B 249.678 {135} (Radial)	0.491 ppm
Be 313.042 {108} (Radial)	0.491 ppm
Ca 317.933 {106} (Radial)	0.534 ppm
Ca 373.690 {90} (Radial)	0.000 ppm
Fe 259.940 {130} (Radial)	0.000 ppm
Fe 271.441 {124} (Radial)	0.000 ppm
K 766.490 {44} (Radial)	0.000 ppm
Li 670.784 {50} (Radial)	0.504 ppm
Mg 279.079 {121} (Radial)	0.000 ppm
Na 589.592 {57} (Radial)	0.511 ppm
Sr 421.552 {80} (Radial)	0.497 ppm
Ti 334.941 {101} (Radial)	0.493 ppm
V 292.402 {115} (Radial)	0.495 ppm
Co 228.616 {447} (Axial)	0.485 ppm
Ni 231.604 {446} (Axial)	0.483 ppm
Pb 220.353 {453} (Axial)	0.491 ppm
Sn 189.989 {478} (Axial)	0.477 ppm
Tl 190.856 {477} (Axial)	0.491 ppm
As 189.042 {478} (Axial)	0.482 ppm
Ba 233.527 {445} (Axial)	0.000 ppm
Mo 202.030 {467} (Axial)	0.000 ppm
S 182.034 {485} (Axial)	0.000 ppm
Si 251.611 {134} (Axial)	0.476 ppm
Sb 206.833 {463} (Axial)	0.493 ppm
Se 196.090 {472} (Axial)	0.488 ppm
Ag 328.068 {103} (Axial)	0.496 ppm
Cr 267.716 {126} (Axial)	0.498 ppm
Mn 257.610 {131} (Axial)	0.499 ppm
Y 360.073 {94} (Radial)	101.644 %
Y 224.306 {450} (Axial)	101.906 %
In 230.606 {446} (Axial)	99.738 %
Y 360.073 {94} (Axial)	99.667 %
Na 818.326 {41} (Radial)	0.000 ppm
Zn 206.200 {463} (Axial)	0.492 ppm
Cd 228.802 {447} (Axial)	0.494 ppm
Cu 324.754 {104} (Radial)	0.494 ppm

STD2 14J08649

Sample Type STD Analysis Date 11/26/2014 12:23:48 PM

Basic sample report

12/1/2014 1:56:44 PM

Dilution Factor 1

	Concentration average
Al 308.215 {109} (Radial)	0.000 ppm
B 249.678 {135} (Radial)	0.984 ppm
Be 313.042 {108} (Radial)	0.991 ppm
Ca 317.933 {106} (Radial)	1.019 ppm
Ca 373.690 {90} (Radial)	0.000 ppm
Fe 259.940 {130} (Radial)	1.018 ppm
Fe 271.441 {124} (Radial)	0.000 ppm
K 766.490 {44} (Radial)	0.000 ppm
Li 670.784 {50} (Radial)	1.003 ppm
Mg 279.079 {121} (Radial)	0.000 ppm
Na 589.592 {57} (Radial)	1.017 ppm
Sr 421.552 {80} (Radial)	0.995 ppm
Ti 334.941 {101} (Radial)	0.999 ppm
V 292.402 {115} (Radial)	0.999 ppm
Co 228.616 {447} (Axial)	0.989 ppm
Ni 231.604 {446} (Axial)	0.986 ppm
Pb 220.353 {453} (Axial)	1.005 ppm
Sn 189.989 {478} (Axial)	0.977 ppm
Tl 190.856 {477} (Axial)	1.005 ppm
As 189.042 {478} (Axial)	0.984 ppm
Ba 233.527 {445} (Axial)	1.032 ppm
Mo 202.030 {467} (Axial)	1.011 ppm
S 182.034 {485} (Axial)	0.928 ppm
Si 251.611 {134} (Axial)	0.973 ppm
Sb 206.833 {463} (Axial)	1.004 ppm
Se 196.090 {472} (Axial)	1.006 ppm
Ag 328.068 {103} (Axial)	1.002 ppm
Cr 267.716 {126} (Axial)	1.000 ppm
Mn 257.610 {131} (Axial)	1.003 ppm
Y 360.073 {94} (Radial)	101.948 %
Y 224.306 {450} (Axial)	100.965 %
In 230.606 {446} (Axial)	98.190 %
Y 360.073 {94} (Axial)	99.904 %
Na 818.326 {41} (Radial)	0.000 ppm
Zn 206.200 {463} (Axial)	1.002 ppm
Cd 228.802 {447} (Axial)	1.003 ppm
Cu 324.754 {104} (Radial)	0.993 ppm

STD3 14J06521

Sample Type STD Analysis Date 11/26/2014 12:28:00 PM

Dilution Factor 1

	Concentration average
Al 308.215 {109} (Radial)	0.000 ppm
B 249.678 {135} (Radial)	2.011 ppm
Be 313.042 {108} (Radial)	2.007 ppm
Ca 317.933 {106} (Radial)	2.025 ppm
Ca 373.690 {90} (Radial)	0.000 ppm
Fe 259.940 {130} (Radial)	2.015 ppm
Fe 271.441 {124} (Radial)	0.000 ppm

Basic sample report

12/1/2014 1:56:44 PM

	Concentration average
K 766.490 {44} (Radial)	0.000 ppm
Li 670.784 {50} (Radial)	1.998 ppm
Mg 279.079 {121} (Radial)	0.000 ppm
Na 589.592 {57} (Radial)	2.016 ppm
Sr 421.552 {80} (Radial)	2.003 ppm
Ti 334.941 {101} (Radial)	2.003 ppm
V 292.402 {115} (Radial)	2.002 ppm
Co 228.616 {447} (Axial)	2.009 ppm
Ni 231.604 {446} (Axial)	2.011 ppm
Pb 220.353 {453} (Axial)	0.000 ppm
Sn 189.989 {478} (Axial)	2.017 ppm
Tl 190.856 {477} (Axial)	0.000 ppm
As 189.042 {478} (Axial)	2.012 ppm
Ba 233.527 {445} (Axial)	2.054 ppm
Mo 202.030 {467} (Axial)	1.994 ppm
S 182.034 {485} (Axial)	1.933 ppm
Si 251.611 {134} (Axial)	2.022 ppm
Sb 206.833 {463} (Axial)	0.000 ppm
Se 196.090 {472} (Axial)	0.000 ppm
Ag 328.068 {103} (Axial)	0.000 ppm
Cr 267.716 {126} (Axial)	2.001 ppm
Mn 257.610 {131} (Axial)	1.999 ppm
Y 360.073 {94} (Radial)	102.224 %
Y 224.306 {450} (Axial)	103.029 %
In 230.606 {446} (Axial)	98.648 %
Y 360.073 {94} (Axial)	100.416 %
Na 818.326 {41} (Radial)	0.000 ppm
Zn 206.200 {463} (Axial)	2.001 ppm
Cd 228.802 {447} (Axial)	0.000 ppm
Cu 324.754 {104} (Radial)	2.005 ppm

STD4 14J27630

Sample Type STD Analysis Date 11/26/2014 12:32:08 PM

Dilution Factor 1

	Concentration average
Al 308.215 {109} (Radial)	9.884 ppm
B 249.678 {135} (Radial)	0.000 ppm
Be 313.042 {108} (Radial)	0.000 ppm
Ca 317.933 {106} (Radial)	9.994 ppm
Ca 373.690 {90} (Radial)	10.734 ppm
Fe 259.940 {130} (Radial)	9.995 ppm
Fe 271.441 {124} (Radial)	11.127 ppm
K 766.490 {44} (Radial)	9.763 ppm
Li 670.784 {50} (Radial)	0.000 ppm
Mg 279.079 {121} (Radial)	10.234 ppm
Na 589.592 {57} (Radial)	9.996 ppm
Sr 421.552 {80} (Radial)	0.000 ppm
Ti 334.941 {101} (Radial)	0.000 ppm
V 292.402 {115} (Radial)	0.000 ppm
Co 228.616 {447} (Axial)	0.000 ppm
Ni 231.604 {446} (Axial)	0.000 ppm

Basic sample report

12/1/2014 1:56:44 PM

	Concentration average
Pb 220.353 {453} (Axial)	0.000 ppm
Sn 189.989 {478} (Axial)	0.000 ppm
Tl 190.856 {477} (Axial)	0.000 ppm
As 189.042 {478} (Axial)	0.000 ppm
Ba 233.527 {445} (Axial)	9.986 ppm
Mo 202.030 {467} (Axial)	0.000 ppm
S 182.034 {485} (Axial)	10.084 ppm
Si 251.611 {134} (Axial)	0.000 ppm
Sb 206.833 {463} (Axial)	0.000 ppm
Se 196.090 {472} (Axial)	0.000 ppm
Ag 328.068 {103} (Axial)	0.000 ppm
Cr 267.716 {126} (Axial)	0.000 ppm
Mn 257.610 {131} (Axial)	0.000 ppm
Y 360.073 {94} (Radial)	102.939 %
Y 224.306 {450} (Axial)	102.592 %
In 230.606 {446} (Axial)	98.927 %
Y 360.073 {94} (Axial)	100.447 %
Na 818.326 {41} (Radial)	10.438 ppm
Zn 206.200 {463} (Axial)	0.000 ppm
Cd 228.802 {447} (Axial)	0.000 ppm
Cu 324.754 {104} (Radial)	0.000 ppm

STD5 14J08650

Sample Type STD Analysis Date 11/26/2014 12:36:33 PM

Dilution Factor 1

	Concentration average
Al 308.215 {109} (Radial)	248.627 ppm
B 249.678 {135} (Radial)	0.000 ppm
Be 313.042 {108} (Radial)	0.000 ppm
Ca 317.933 {106} (Radial)	0.000 ppm
Ca 373.690 {90} (Radial)	253.126 ppm
Fe 259.940 {130} (Radial)	0.000 ppm
Fe 271.441 {124} (Radial)	102.782 ppm
K 766.490 {44} (Radial)	49.460 ppm
Li 670.784 {50} (Radial)	0.000 ppm
Mg 279.079 {121} (Radial)	252.166 ppm
Na 589.592 {57} (Radial)	0.000 ppm
Sr 421.552 {80} (Radial)	0.000 ppm
Ti 334.941 {101} (Radial)	0.000 ppm
V 292.402 {115} (Radial)	0.000 ppm
Co 228.616 {447} (Axial)	0.000 ppm
Ni 231.604 {446} (Axial)	0.000 ppm
Pb 220.353 {453} (Axial)	0.000 ppm
Sn 189.989 {478} (Axial)	0.000 ppm
Tl 190.856 {477} (Axial)	0.000 ppm
As 189.042 {478} (Axial)	0.000 ppm
Ba 233.527 {445} (Axial)	0.000 ppm
Mo 202.030 {467} (Axial)	0.000 ppm
S 182.034 {485} (Axial)	49.319 ppm
Si 251.611 {134} (Axial)	0.000 ppm
Sb 206.833 {463} (Axial)	0.000 ppm

Basic sample report

12/1/2014 1:56:44 PM

	Concentration average
Se 196.090 {472} (Axial)	0.000 ppm
Ag 328.068 {103} (Axial)	0.000 ppm
Cr 267.716 {126} (Axial)	0.000 ppm
Mn 257.610 {131} (Axial)	0.000 ppm
Y 360.073 {94} (Radial)	96.473 %
Y 224.306 {450} (Axial)	87.318 %
In 230.606 {446} (Axial)	74.692 %
Y 360.073 {94} (Axial)	88.166 %
Na 818.326 {41} (Radial)	248.710 ppm
Zn 206.200 {463} (Axial)	0.000 ppm
Cd 228.802 {447} (Axial)	0.000 ppm
Cu 324.754 {104} (Radial)	0.000 ppm

STD6 14I24985

Sample Type STD Analysis Date 11/26/2014 12:41:08 PM

Dilution Factor 1

	Concentration average
Al 308.215 {109} (Radial)	500.689 ppm
B 249.678 {135} (Radial)	0.000 ppm
Be 313.042 {108} (Radial)	0.000 ppm
Ca 317.933 {106} (Radial)	0.000 ppm
Ca 373.690 {90} (Radial)	498.422 ppm
Fe 259.940 {130} (Radial)	0.000 ppm
Fe 271.441 {124} (Radial)	198.553 ppm
K 766.490 {44} (Radial)	100.294 ppm
Li 670.784 {50} (Radial)	0.000 ppm
Mg 279.079 {121} (Radial)	498.912 ppm
Na 589.592 {57} (Radial)	0.000 ppm
Sr 421.552 {80} (Radial)	0.000 ppm
Ti 334.941 {101} (Radial)	0.000 ppm
V 292.402 {115} (Radial)	0.000 ppm
Co 228.616 {447} (Axial)	0.000 ppm
Ni 231.604 {446} (Axial)	0.000 ppm
Pb 220.353 {453} (Axial)	0.000 ppm
Sn 189.989 {478} (Axial)	0.000 ppm
Tl 190.856 {477} (Axial)	0.000 ppm
As 189.042 {478} (Axial)	0.000 ppm
Ba 233.527 {445} (Axial)	0.000 ppm
Mo 202.030 {467} (Axial)	0.000 ppm
S 182.034 {485} (Axial)	100.372 ppm
Si 251.611 {134} (Axial)	0.000 ppm
Sb 206.833 {463} (Axial)	0.000 ppm
Se 196.090 {472} (Axial)	0.000 ppm
Ag 328.068 {103} (Axial)	0.000 ppm
Cr 267.716 {126} (Axial)	0.000 ppm
Mn 257.610 {131} (Axial)	0.000 ppm
Y 360.073 {94} (Radial)	95.423 %
Y 224.306 {450} (Axial)	83.578 %
In 230.606 {446} (Axial)	68.083 %
Y 360.073 {94} (Axial)	84.378 %
Na 818.326 {41} (Radial)	500.636 ppm

	Concentration average
Zn 206.200 {463} (Axial)	0.000 ppm
Cd 228.802 {447} (Axial)	0.000 ppm
Cu 324.754 {104} (Radial)	0.000 ppm

ICV 14I23903

Sample Type QC Analysis Date 11/26/2014 12:45:41 PM

Dilution Factor 1

	Concentration average	Recovery Percentage 1
Al 308.215 {109} (Radial)	10.026 ppm	100.224 %
B 249.678 {135} (Radial)	1.031 ppm	103.068 %
Be 313.042 {108} (Radial)	1.007 ppm	100.591 %
Ca 317.933 {106} (Radial)	9.905 ppm	98.931 %
Ca 373.690 {90} (Radial)	10.671 ppm	106.886 %
Fe 259.940 {130} (Radial)	10.085 ppm	100.784 %
Fe 271.441 {124} (Radial)	11.275 ppm	112.034 %
K 766.490 {44} (Radial)	9.861 ppm	98.253 %
Li 670.784 {50} (Radial)	1.045 ppm	104.137 %
Mg 279.079 {121} (Radial)	9.957 ppm	98.976 %
Na 589.592 {57} (Radial)	10.128 ppm	101.042 %
Sr 421.552 {80} (Radial)	0.415 ppm	103.504 %
Ti 334.941 {101} (Radial)	1.002 ppm	99.618 %
V 292.402 {115} (Radial)	1.027 ppm	102.701 %
Co 228.616 {447} (Axial)	1.001 ppm	100.298 %
Ni 231.604 {446} (Axial)	0.989 ppm	99.040 %
Pb 220.353 {453} (Axial)	1.018 ppm	102.177 %
Sn 189.989 {478} (Axial)	0.974 ppm	97.535 %
Tl 190.856 {477} (Axial)	1.018 ppm	101.989 %
As 189.042 {478} (Axial)	1.024 ppm	102.668 %
Ba 233.527 {445} (Axial)	1.050 ppm	105.247 %
Mo 202.030 {467} (Axial)	1.036 ppm	103.973 %
S 182.034 {485} (Axial)	0.006 ppm	0.062 %
Si 251.611 {134} (Axial)	1.007 ppm	99.621 %
Sb 206.833 {463} (Axial)	1.045 ppm	104.753 %
Se 196.090 {472} (Axial)	1.046 ppm	104.312 %
Ag 328.068 {103} (Axial)	0.100 ppm	99.410 %
Cr 267.716 {126} (Axial)	1.001 ppm	99.586 %
Mn 257.610 {131} (Axial)	0.999 ppm	99.548 %
Y 360.073 {94} (Radial)	99.820 %	
Y 224.306 {450} (Axial)	96.707 %	
In 230.606 {446} (Axial)	94.527 %	
Y 360.073 {94} (Axial)	98.296 %	
Na 818.326 {41} (Radial)	10.243 ppm	102.749 %
Zn 206.200 {463} (Axial)	0.990 ppm	99.509 %
Cd 228.802 {447} (Axial)	1.054 ppm	105.598 %
Cu 324.754 {104} (Radial)	1.019 ppm	102.347 %

ICB

Sample Type QC Analysis Date 11/26/2014 12:52:52 PM

Basic sample report

12/1/2014 1:56:44 PM

Dilution Factor 1

	Concentration average	Recovery Percentage 1
Al 308.215 {109} (Radial)	0.026 ppm	34.171 %
B 249.678 {135} (Radial)	0.013 ppm	35.099 %
Be 313.042 {108} (Radial)	0.000 ppm	5.617 %
Ca 317.933 {106} (Radial)	-0.001 ppm	0.336 %
Ca 373.690 {90} (Radial)	0.021 ppm	
Fe 259.940 {130} (Radial)	0.004 ppm	12.746 %
Fe 271.441 {124} (Radial)	-0.056 ppm	
K 766.490 {44} (Radial)	0.009 ppm	5.072 %
Li 670.784 {50} (Radial)	0.000 ppm	-1.192 %
Mg 279.079 {121} (Radial)	-0.016 ppm	1.242 %
Na 589.592 {57} (Radial)	0.020 ppm	7.655 %
Sr 421.552 {80} (Radial)	0.000 ppm	0.237 %
Ti 334.941 {101} (Radial)	0.001 ppm	6.486 %
V 292.402 {115} (Radial)	0.003 ppm	5.476 %
Co 228.616 {447} (Axial)	0.000 ppm	-2.198 %
Ni 231.604 {446} (Axial)	0.000 ppm	0.045 %
Pb 220.353 {453} (Axial)	-0.002 ppm	-43.759 %
Sn 189.989 {478} (Axial)	0.000 ppm	9.662 %
Tl 190.856 {477} (Axial)	0.001 ppm	-4.447 %
As 189.042 {478} (Axial)	0.000 ppm	-1.945 %
Ba 233.527 {445} (Axial)	0.000 ppm	2.512 %
Mo 202.030 {467} (Axial)	0.000 ppm	1.549 %
S 182.034 {485} (Axial)	0.001 ppm	0.524 %
Si 251.611 {134} (Axial)	0.004 ppm	8.306 %
Sb 206.833 {463} (Axial)	0.001 ppm	15.537 %
Se 196.090 {472} (Axial)	0.002 ppm	20.338 %
Ag 328.068 {103} (Axial)	0.000 ppm	0.435 %
Cr 267.716 {126} (Axial)	0.000 ppm	-0.612 %
Mn 257.610 {131} (Axial)	0.000 ppm	1.889 %
Y 360.073 {94} (Radial)	103.803 %	
Y 224.306 {450} (Axial)	99.712 %	
In 230.606 {446} (Axial)	102.018 %	
Y 360.073 {94} (Axial)	101.348 %	
Na 818.326 {41} (Radial)	0.167 ppm	
Zn 206.200 {463} (Axial)	0.000 ppm	-0.258 %
Cd 228.802 {447} (Axial)	0.000 ppm	1.687 %
Cu 324.754 {104} (Radial)	-0.003 ppm	-0.392 %

ICVLL 14G16199

Sample Type QC Analysis Date 11/26/2014 12:57:23 PM

Dilution Factor 1

	Concentration average	Recovery Percentage 1
Al 308.215 {109} (Radial)	0.124 ppm	178.574 %
B 249.678 {135} (Radial)	0.195 ppm	97.189 %
Be 313.042 {108} (Radial)	0.002 ppm	93.899 %
Ca 317.933 {106} (Radial)	0.479 ppm	95.612 %
Ca 373.690 {90} (Radial)	0.515 ppm	103.886 %
Fe 259.940 {130} (Radial)	0.104 ppm	102.736 %
Fe 271.441 {124} (Radial)	0.068 ppm	101.174 %

Basic sample report

12/1/2014 1:56:44 PM

	Concentration average	Recovery Percentage 1
K 766.490 {44} (Radial)	0.466 ppm	93.251 %
Li 670.784 {50} (Radial)	0.015 ppm	99.602 %
Mg 279.079 {121} (Radial)	0.103 ppm	127.899 %
Na 589.592 {57} (Radial)	0.490 ppm	98.512 %
Sr 421.552 {80} (Radial)	0.010 ppm	97.550 %
Ti 334.941 {101} (Radial)	0.009 ppm	95.392 %
V 292.402 {115} (Radial)	0.012 ppm	111.247 %
Co 228.616 {447} (Axial)	0.009 ppm	86.143 %
Ni 231.604 {446} (Axial)	0.018 ppm	91.614 %
Pb 220.353 {453} (Axial)	0.004 ppm	110.702 %
Sn 189.989 {478} (Axial)	0.018 ppm	91.842 %
Tl 190.856 {477} (Axial)	0.019 ppm	93.580 %
As 189.042 {478} (Axial)	0.020 ppm	89.960 %
Ba 233.527 {445} (Axial)	0.005 ppm	99.450 %
Mo 202.030 {467} (Axial)	0.005 ppm	98.417 %
S 182.034 {485} (Axial)	4.255 ppm	84.409 %
Si 251.611 {134} (Axial)	0.182 ppm	92.732 %
Sb 206.833 {463} (Axial)	0.020 ppm	101.974 %
Se 196.090 {472} (Axial)	0.019 ppm	95.272 %
Ag 328.068 {103} (Axial)	0.009 ppm	95.565 %
Cr 267.716 {126} (Axial)	0.009 ppm	92.576 %
Mn 257.610 {131} (Axial)	0.009 ppm	96.340 %
Y 360.073 {94} (Radial)	99.553 %	
Y 224.306 {450} (Axial)	99.219 %	
In 230.606 {446} (Axial)	101.445 %	
Y 360.073 {94} (Axial)	102.836 %	
Na 818.326 {41} (Radial)	0.513 ppm	106.040 %
Zn 206.200 {463} (Axial)	0.028 ppm	92.836 %
Cd 228.802 {447} (Axial)	0.005 ppm	100.353 %
Cu 324.754 {104} (Radial)	0.018 ppm	86.572 %

ICSA 14J10823

Sample Type QC Analysis Date 11/26/2014 1:01:54 PM

Dilution Factor 1

	Concentration average	Recovery Percentage 1
Al 308.215 {109} (Radial)	495.153 ppm	99.034 %
B 249.678 {135} (Radial)	0.005 ppm	Infinity %
Be 313.042 {108} (Radial)	0.000 ppm	Infinity %
Ca 317.933 {106} (Radial)	444.904 ppm	88.584 %
Ca 373.690 {90} (Radial)	499.096 ppm	99.504 %
Fe 259.940 {130} (Radial)	175.076 ppm	87.205 %
Fe 271.441 {124} (Radial)	200.984 ppm	99.888 %
K 766.490 {44} (Radial)	0.043 ppm	Infinity %
Li 670.784 {50} (Radial)	0.005 ppm	Infinity %
Mg 279.079 {121} (Radial)	513.181 ppm	102.117 %
Na 589.592 {57} (Radial)	0.059 ppm	Infinity %
Sr 421.552 {80} (Radial)	0.008 ppm	Infinity %
Ti 334.941 {101} (Radial)	-0.001 ppm	-Infinity %
V 292.402 {115} (Radial)	0.009 ppm	Infinity %
Co 228.616 {447} (Axial)	0.001 ppm	Infinity %
Ni 231.604 {446} (Axial)	-0.013 ppm	-Infinity %

Basic sample report

12/1/2014 1:56:44 PM

	Concentration average	Recovery Percentage 1
Pb 220.353 {453} (Axial)	-0.030 ppm	-Infinity %
Sn 189.989 {478} (Axial)	0.001 ppm	
Tl 190.856 {477} (Axial)	-0.009 ppm	-Infinity %
As 189.042 {478} (Axial)	-0.006 ppm	-Infinity %
Ba 233.527 {445} (Axial)	0.002 ppm	Infinity %
Mo 202.030 {467} (Axial)	-0.002 ppm	-Infinity %
S 182.034 {485} (Axial)	-0.005 ppm	-Infinity %
Si 251.611 {134} (Axial)	0.002 ppm	Infinity %
Sb 206.833 {463} (Axial)	-0.007 ppm	-Infinity %
Se 196.090 {472} (Axial)	0.020 ppm	Infinity %
Ag 328.068 {103} (Axial)	-0.001 ppm	-Infinity %
Cr 267.716 {126} (Axial)	0.002 ppm	Infinity %
Mn 257.610 {131} (Axial)	-0.004 ppm	-Infinity %
Y 360.073 {94} (Radial)	95.200 %	
Y 224.306 {450} (Axial)	84.418 %	
In 230.606 {446} (Axial)	72.367 %	
Y 360.073 {94} (Axial)	85.891 %	
Na 818.326 {41} (Radial)	0.055 ppm	-Infinity %
Zn 206.200 {463} (Axial)	0.004 ppm	Infinity %
Cd 228.802 {447} (Axial)	-0.001 ppm	-Infinity %
Cu 324.754 {104} (Radial)	0.002 ppm	Infinity %

ICSAB 14J10824

Sample Type QC Analysis Date 11/26/2014 1:06:22 PM

Dilution Factor 1

	Concentration average	Recovery Percentage 1
Al 308.215 {109} (Radial)	489.662 ppm	98.103 %
B 249.678 {135} (Radial)	0.979 ppm	99.853 %
Be 313.042 {108} (Radial)	0.470 ppm	94.616 %
Ca 317.933 {106} (Radial)	439.223 ppm	88.493 %
Ca 373.690 {90} (Radial)	493.387 ppm	99.316 %
Fe 259.940 {130} (Radial)	173.197 ppm	87.064 %
Fe 271.441 {124} (Radial)	199.257 ppm	100.095 %
K 766.490 {44} (Radial)	0.044 ppm	Infinity %
Li 670.784 {50} (Radial)	0.004 ppm	Infinity %
Mg 279.079 {121} (Radial)	506.890 ppm	102.017 %
Na 589.592 {57} (Radial)	0.055 ppm	Infinity %
Sr 421.552 {80} (Radial)	0.008 ppm	Infinity %
Ti 334.941 {101} (Radial)	0.475 ppm	Infinity %
V 292.402 {115} (Radial)	0.466 ppm	93.849 %
Co 228.616 {447} (Axial)	0.485 ppm	96.950 %
Ni 231.604 {446} (Axial)	0.944 ppm	94.386 %
Pb 220.353 {453} (Axial)	0.938 ppm	93.745 %
Sn 189.989 {478} (Axial)	0.483 ppm	Infinity %
Tl 190.856 {477} (Axial)	0.459 ppm	90.878 %
As 189.042 {478} (Axial)	0.510 ppm	102.232 %
Ba 233.527 {445} (Axial)	0.479 ppm	95.529 %
Mo 202.030 {467} (Axial)	0.467 ppm	93.302 %
S 182.034 {485} (Axial)	0.001 ppm	
Si 251.611 {134} (Axial)	1.039 ppm	Infinity %
Sb 206.833 {463} (Axial)	0.527 ppm	105.013 %

Basic sample report

12/1/2014 1:56:44 PM

	Concentration average	Recovery Percentage 1
Se 196.090 {472} (Axial)	0.536 ppm	106.180 %
Ag 328.068 {103} (Axial)	1.137 ppm	113.226 %
Cr 267.716 {126} (Axial)	0.452 ppm	89.645 %
Mn 257.610 {131} (Axial)	0.447 ppm	89.485 %
Y 360.073 {94} (Radial)	95.887 %	
Y 224.306 {450} (Axial)	84.475 %	
In 230.606 {446} (Axial)	72.226 %	
Y 360.073 {94} (Axial)	85.469 %	
Na 818.326 {41} (Radial)	0.125 ppm	Infinity %
Zn 206.200 {463} (Axial)	0.863 ppm	85.987 %
Cd 228.802 {447} (Axial)	1.075 ppm	107.392 %
Cu 324.754 {104} (Radial)	0.496 ppm	98.064 %

carryover

Sample Type UNKNOWN Analysis Date 11/26/2014 1:10:36 PM

Dilution Factor 1

	Concentration average
Al 308.215 {109} (Radial)	0.064 ppm
B 249.678 {135} (Radial)	0.005 ppm
Be 313.042 {108} (Radial)	0.000 ppm
Ca 317.933 {106} (Radial)	0.162 ppm
Ca 373.690 {90} (Radial)	0.183 ppm
Fe 259.940 {130} (Radial)	0.073 ppm
Fe 271.441 {124} (Radial)	0.044 ppm
K 766.490 {44} (Radial)	0.030 ppm
Li 670.784 {50} (Radial)	0.001 ppm
Mg 279.079 {121} (Radial)	0.120 ppm
Na 589.592 {57} (Radial)	0.017 ppm
Sr 421.552 {80} (Radial)	0.000 ppm
Ti 334.941 {101} (Radial)	0.000 ppm
V 292.402 {115} (Radial)	0.004 ppm
Co 228.616 {447} (Axial)	0.000 ppm
Ni 231.604 {446} (Axial)	0.001 ppm
Pb 220.353 {453} (Axial)	0.000 ppm
Sn 189.989 {478} (Axial)	0.001 ppm
Tl 190.856 {477} (Axial)	-0.001 ppm
As 189.042 {478} (Axial)	0.000 ppm
Ba 233.527 {445} (Axial)	0.001 ppm
Mo 202.030 {467} (Axial)	0.000 ppm
S 182.034 {485} (Axial)	0.005 ppm
Si 251.611 {134} (Axial)	0.016 ppm
Sb 206.833 {463} (Axial)	0.002 ppm
Se 196.090 {472} (Axial)	0.003 ppm
Ag 328.068 {103} (Axial)	0.000 ppm
Cr 267.716 {126} (Axial)	0.000 ppm
Mn 257.610 {131} (Axial)	0.001 ppm
Y 360.073 {94} (Radial)	99.634 %
Y 224.306 {450} (Axial)	98.269 %
In 230.606 {446} (Axial)	101.019 %
Y 360.073 {94} (Axial)	100.140 %
Na 818.326 {41} (Radial)	-0.024 ppm

Basic sample report

12/1/2014 1:56:44 PM

	Concentration average
Y 360.073 {94} (Axial)	102.031 %
Na 818.326 {41} (Radial)	222.119 ppm
Zn 206.200 {463} (Axial)	7.028 ppm
Cd 228.802 {447} (Axial)	-0.018 ppm
Cu 324.754 {104} (Radial)	4.857 ppm

CCV 14J24642

Sample Type QC Analysis Date 11/26/2014 3:07:54 PM

Dilution Factor 1

	Concentration average	Recovery Percentage 1
Al 308.215 {109} (Radial)	9.678 ppm	96.957 %
B 249.678 {135} (Radial)	1.988 ppm	100.502 %
Be 313.042 {108} (Radial)	0.195 ppm	97.685 %
Ca 317.933 {106} (Radial)	47.835 ppm	96.065 %
Ca 373.690 {90} (Radial)	51.504 ppm	103.193 %
Fe 259.940 {130} (Radial)	9.662 ppm	96.970 %
Fe 271.441 {124} (Radial)	10.736 ppm	105.317 %
K 766.490 {44} (Radial)	47.935 ppm	96.214 %
Li 670.784 {50} (Radial)	1.503 ppm	100.656 %
Mg 279.079 {121} (Radial)	9.498 ppm	95.191 %
Na 589.592 {57} (Radial)	49.257 ppm	98.822 %
Sr 421.552 {80} (Radial)	0.990 ppm	99.388 %
Ti 334.941 {101} (Radial)	0.998 ppm	100.577 %
V 292.402 {115} (Radial)	0.983 ppm	98.281 %
Co 228.616 {447} (Axial)	0.990 ppm	99.039 %
Ni 231.604 {446} (Axial)	1.977 ppm	98.959 %
Pb 220.353 {453} (Axial)	0.498 ppm	99.657 %
Sn 189.989 {478} (Axial)	1.976 ppm	98.695 %
Tl 190.856 {477} (Axial)	2.005 ppm	100.427 %
As 189.042 {478} (Axial)	2.045 ppm	102.135 %
Ba 233.527 {445} (Axial)	0.508 ppm	101.403 %
Mo 202.030 {467} (Axial)	0.500 ppm	100.050 %
S 182.034 {485} (Axial)	4.858 ppm	97.314 %
Si 251.611 {134} (Axial)	2.043 ppm	103.344 %
Sb 206.833 {463} (Axial)	2.093 ppm	104.789 %
Se 196.090 {472} (Axial)	2.114 ppm	105.992 %
Ag 328.068 {103} (Axial)	1.018 ppm	102.862 %
Cr 267.716 {126} (Axial)	0.963 ppm	97.239 %
Mn 257.610 {131} (Axial)	0.977 ppm	98.494 %
Y 360.073 {94} (Radial)	100.566 %	
Y 224.306 {450} (Axial)	94.073 %	
In 230.606 {446} (Axial)	88.940 %	
Y 360.073 {94} (Axial)	95.680 %	
Na 818.326 {41} (Radial)	49.447 ppm	99.094 %
Zn 206.200 {463} (Axial)	2.861 ppm	95.335 %
Cd 228.802 {447} (Axial)	0.550 ppm	110.071 %
Cu 324.754 {104} (Radial)	1.983 ppm	99.183 %

CCB

Basic sample report

12/1/2014 1:56:44 PM

Sample Type QC Analysis Date 11/26/2014 3:12:02 PM

Dilution Factor 1

	Concentration average	Recovery Percentage 1
Al 308.215 {109} (Radial)	-0.011 ppm	-41.803 %
B 249.678 {135} (Radial)	0.011 ppm	24.434 %
Be 313.042 {108} (Radial)	0.000 ppm	1.686 %
Ca 317.933 {106} (Radial)	0.004 ppm	2.684 %
Ca 373.690 {90} (Radial)	0.009 ppm	
Fe 259.940 {130} (Radial)	0.002 ppm	16.124 %
Fe 271.441 {124} (Radial)	-0.037 ppm	
K 766.490 {44} (Radial)	0.016 ppm	20.604 %
Li 670.784 {50} (Radial)	0.000 ppm	0.128 %
Mg 279.079 {121} (Radial)	0.007 ppm	-3.439 %
Na 589.592 {57} (Radial)	0.003 ppm	-0.154 %
Sr 421.552 {80} (Radial)	0.000 ppm	-0.152 %
Ti 334.941 {101} (Radial)	0.000 ppm	-3.224 %
V 292.402 {115} (Radial)	0.004 ppm	35.162 %
Co 228.616 {447} (Axial)	0.000 ppm	-2.539 %
Ni 231.604 {446} (Axial)	0.000 ppm	-1.608 %
Pb 220.353 {453} (Axial)	-0.001 ppm	-22.902 %
Sn 189.989 {478} (Axial)	0.001 ppm	7.180 %
Tl 190.856 {477} (Axial)	0.000 ppm	-2.837 %
As 189.042 {478} (Axial)	0.000 ppm	8.128 %
Ba 233.527 {445} (Axial)	0.000 ppm	-1.994 %
Mo 202.030 {467} (Axial)	0.000 ppm	2.392 %
S 182.034 {485} (Axial)	0.001 ppm	9.702 %
Si 251.611 {134} (Axial)	0.005 ppm	13.381 %
Sb 206.833 {463} (Axial)	0.000 ppm	-13.907 %
Se 196.090 {472} (Axial)	0.001 ppm	17.408 %
Ag 328.068 {103} (Axial)	-0.001 ppm	-7.584 %
Cr 267.716 {126} (Axial)	0.000 ppm	-6.406 %
Mn 257.610 {131} (Axial)	0.000 ppm	2.114 %
Y 360.073 {94} (Radial)	101.446 %	
Y 224.306 {450} (Axial)	98.488 %	
In 230.606 {446} (Axial)	100.786 %	
Y 360.073 {94} (Axial)	100.432 %	
Na 818.326 {41} (Radial)	0.107 ppm	
Zn 206.200 {463} (Axial)	0.000 ppm	0.098 %
Cd 228.802 {447} (Axial)	0.000 ppm	3.434 %
Cu 324.754 {104} (Radial)	-0.002 ppm	-0.745 %

PS L734447-06 WG757005

Sample Type UNKNOWN Analysis Date 11/26/2014 3:16:36 PM

Dilution Factor 1

	Concentration average
Al 308.215 {109} (Radial)	2,164.210 ppm
B 249.678 {135} (Radial)	91.339 ppm
Be 313.042 {108} (Radial)	89.776 ppm
Ca 317.933 {106} (Radial)	895.184 ppm
Ca 373.690 {90} (Radial)	979.418 ppm

Basic sample report

12/1/2014 1:56:44 PM

	Concentration average
Si 251.611 {134} (Axial)	756.069 ppm
Sb 206.833 {463} (Axial)	85.986 ppm
Se 196.090 {472} (Axial)	88.463 ppm
Ag 328.068 {103} (Axial)	83.325 ppm
Cr 267.716 {126} (Axial)	80.848 ppm
Mn 257.610 {131} (Axial)	269.292 ppm
Y 360.073 {94} (Radial)	112.680 %
Y 224.306 {450} (Axial)	108.287 %
In 230.606 {446} (Axial)	93.691 %
Y 360.073 {94} (Axial)	108.956 %
Na 818.326 {41} (Radial)	1,068.329 ppm
Zn 206.200 {463} (Axial)	89.866 ppm
Cd 228.802 {447} (Axial)	87.825 ppm
Cu 324.754 {104} (Radial)	88.657 ppm

BLANK WG756740

Sample Type UNKNOWN Analysis Date 11/26/2014 3:29:13 PM

Dilution Factor 1

	Concentration average
Al 308.215 {109} (Radial)	0.043 ppm
B 249.678 {135} (Radial)	0.011 ppm
Be 313.042 {108} (Radial)	0.000 ppm
Ca 317.933 {106} (Radial)	0.063 ppm
Ca 373.690 {90} (Radial)	0.068 ppm
Fe 259.940 {130} (Radial)	0.021 ppm
Fe 271.441 {124} (Radial)	-0.016 ppm
K 766.490 {44} (Radial)	0.065 ppm
Li 670.784 {50} (Radial)	0.003 ppm
Mg 279.079 {121} (Radial)	-0.006 ppm
Na 589.592 {57} (Radial)	0.068 ppm
Sr 421.552 {80} (Radial)	0.001 ppm
Ti 334.941 {101} (Radial)	0.001 ppm
V 292.402 {115} (Radial)	0.004 ppm
Co 228.616 {447} (Axial)	0.000 ppm
Ni 231.604 {446} (Axial)	0.000 ppm
Pb 220.353 {453} (Axial)	-0.001 ppm
Sn 189.989 {478} (Axial)	0.001 ppm
Tl 190.856 {477} (Axial)	0.002 ppm
As 189.042 {478} (Axial)	0.003 ppm
Ba 233.527 {445} (Axial)	0.000 ppm
Mo 202.030 {467} (Axial)	0.000 ppm
S 182.034 {485} (Axial)	0.064 ppm
Si 251.611 {134} (Axial)	0.009 ppm
Sb 206.833 {463} (Axial)	0.003 ppm
Se 196.090 {472} (Axial)	-0.001 ppm
Ag 328.068 {103} (Axial)	0.005 ppm
Cr 267.716 {126} (Axial)	0.000 ppm
Mn 257.610 {131} (Axial)	0.001 ppm
Y 360.073 {94} (Radial)	102.918 %
Y 224.306 {450} (Axial)	98.672 %
In 230.606 {446} (Axial)	101.456 %

Basic sample report

12/1/2014 1:56:44 PM

	Concentration average
Y 360.073 {94} (Axial)	100.806 %
Na 818.326 {41} (Radial)	0.456 ppm
Zn 206.200 {463} (Axial)	0.002 ppm
Cd 228.802 {447} (Axial)	0.000 ppm
Cu 324.754 {104} (Radial)	-0.001 ppm

LCS WG756740

Sample Type UNKNOWN Analysis Date 11/26/2014 3:33:44 PM

Dilution Factor 1

	Concentration average
Al 308.215 {109} (Radial)	0.953 ppm
B 249.678 {135} (Radial)	1.066 ppm
Be 313.042 {108} (Radial)	1.048 ppm
Ca 317.933 {106} (Radial)	9.667 ppm
Ca 373.690 {90} (Radial)	10.444 ppm
Fe 259.940 {130} (Radial)	1.017 ppm
Fe 271.441 {124} (Radial)	1.180 ppm
K 766.490 {44} (Radial)	10.204 ppm
Li 670.784 {50} (Radial)	1.109 ppm
Mg 279.079 {121} (Radial)	9.679 ppm
Na 589.592 {57} (Radial)	10.541 ppm
Sr 421.552 {80} (Radial)	1.048 ppm
Ti 334.941 {101} (Radial)	1.009 ppm
V 292.402 {115} (Radial)	1.048 ppm
Co 228.616 {447} (Axial)	1.027 ppm
Ni 231.604 {446} (Axial)	1.001 ppm
Pb 220.353 {453} (Axial)	1.043 ppm
Sn 189.989 {478} (Axial)	0.989 ppm
Tl 190.856 {477} (Axial)	1.091 ppm
As 189.042 {478} (Axial)	1.074 ppm
Ba 233.527 {445} (Axial)	1.074 ppm
Mo 202.030 {467} (Axial)	1.060 ppm
S 182.034 {485} (Axial)	0.059 ppm
Si 251.611 {134} (Axial)	1.207 ppm
Sb 206.833 {463} (Axial)	1.127 ppm
Se 196.090 {472} (Axial)	1.118 ppm
Ag 328.068 {103} (Axial)	1.144 ppm
Cr 267.716 {126} (Axial)	1.053 ppm
Mn 257.610 {131} (Axial)	1.088 ppm
Y 360.073 {94} (Radial)	102.838 %
Y 224.306 {450} (Axial)	93.724 %
In 230.606 {446} (Axial)	93.213 %
Y 360.073 {94} (Axial)	92.078 %
Na 818.326 {41} (Radial)	10.948 ppm
Zn 206.200 {463} (Axial)	0.972 ppm
Cd 228.802 {447} (Axial)	1.104 ppm
Cu 324.754 {104} (Radial)	1.053 ppm

LCSD WG756740

Basic sample report

12/1/2014 1:56:44 PM

Sample Type UNKNOWN Analysis Date 11/26/2014 3:37:58 PM

Dilution Factor 1

	Concentration average
Al 308.215 {109} (Radial)	1.003 ppm
B 249.678 {135} (Radial)	1.060 ppm
Be 313.042 {108} (Radial)	1.044 ppm
Ca 317.933 {106} (Radial)	9.682 ppm
Ca 373.690 {90} (Radial)	10.476 ppm
Fe 259.940 {130} (Radial)	1.025 ppm
Fe 271.441 {124} (Radial)	1.137 ppm
K 766.490 {44} (Radial)	10.266 ppm
Li 670.784 {50} (Radial)	1.112 ppm
Mg 279.079 {121} (Radial)	9.705 ppm
Na 589.592 {57} (Radial)	10.634 ppm
Sr 421.552 {80} (Radial)	1.053 ppm
Ti 334.941 {101} (Radial)	1.010 ppm
V 292.402 {115} (Radial)	1.062 ppm
Co 228.616 {447} (Axial)	1.026 ppm
Ni 231.604 {446} (Axial)	1.003 ppm
Pb 220.353 {453} (Axial)	1.047 ppm
Sn 189.989 {478} (Axial)	0.991 ppm
Tl 190.856 {477} (Axial)	1.094 ppm
As 189.042 {478} (Axial)	1.079 ppm
Ba 233.527 {445} (Axial)	1.074 ppm
Mo 202.030 {467} (Axial)	1.060 ppm
S 182.034 {485} (Axial)	0.044 ppm
Si 251.611 {134} (Axial)	1.103 ppm
Sb 206.833 {463} (Axial)	1.125 ppm
Se 196.090 {472} (Axial)	1.112 ppm
Ag 328.068 {103} (Axial)	1.055 ppm
Cr 267.716 {126} (Axial)	0.968 ppm
Mn 257.610 {131} (Axial)	0.999 ppm
Y 360.073 {94} (Radial)	102.296 %
Y 224.306 {450} (Axial)	94.225 %
In 230.606 {446} (Axial)	93.643 %
Y 360.073 {94} (Axial)	97.735 %
Na 818.326 {41} (Radial)	10.890 ppm
Zn 206.200 {463} (Axial)	0.978 ppm
Cd 228.802 {447} (Axial)	1.102 ppm
Cu 324.754 {104} (Radial)	1.051 ppm

L735318-09 WG756740

Sample Type UNKNOWN Analysis Date 11/26/2014 3:42:13 PM

Dilution Factor 5

	Concentration average
Al 308.215 {109} (Radial)	-0.061 ppm
B 249.678 {135} (Radial)	0.172 ppm
Be 313.042 {108} (Radial)	0.000 ppm
Ca 317.933 {106} (Radial)	567.378 ppm
Ca 373.690 {90} (Radial)	613.888 ppm

Basic sample report

12/1/2014 1:56:44 PM

	Concentration average
Fe 259.940 {130} (Radial)	-0.105 ppm
Fe 271.441 {124} (Radial)	-0.238 ppm
K 766.490 {44} (Radial)	4.840 ppm
Li 670.784 {50} (Radial)	0.207 ppm
Mg 279.079 {121} (Radial)	67.587 ppm
Na 589.592 {57} (Radial)	68.799 ppm
Sr 421.552 {80} (Radial)	8.216 ppm
Ti 334.941 {101} (Radial)	0.057 ppm
V 292.402 {115} (Radial)	0.062 ppm
Co 228.616 {447} (Axial)	-0.001 ppm
Ni 231.604 {446} (Axial)	0.000 ppm
Pb 220.353 {453} (Axial)	-0.003 ppm
Sn 189.989 {478} (Axial)	-0.005 ppm
Tl 190.856 {477} (Axial)	-0.004 ppm
As 189.042 {478} (Axial)	0.006 ppm
Ba 233.527 {445} (Axial)	0.066 ppm
Mo 202.030 {467} (Axial)	0.014 ppm
S 182.034 {485} (Axial)	488.277 ppm
Si 251.611 {134} (Axial)	22.058 ppm
Sb 206.833 {463} (Axial)	0.006 ppm
Se 196.090 {472} (Axial)	0.010 ppm
Ag 328.068 {103} (Axial)	-0.001 ppm
Cr 267.716 {126} (Axial)	0.003 ppm
Mn 257.610 {131} (Axial)	0.087 ppm
Y 360.073 {94} (Radial)	96.562 %
Y 224.306 {450} (Axial)	91.445 %
In 230.606 {446} (Axial)	90.407 %
Y 360.073 {94} (Axial)	94.513 %
Na 818.326 {41} (Radial)	67.555 ppm
Zn 206.200 {463} (Axial)	0.006 ppm
Cd 228.802 {447} (Axial)	0.002 ppm
Cu 324.754 {104} (Radial)	-0.016 ppm

SD L735318-09 WG756740

Sample Type UNKNOWN Analysis Date 11/26/2014 3:46:40 PM

Dilution Factor 25

	Concentration average
Al 308.215 {109} (Radial)	0.068 ppm
B 249.678 {135} (Radial)	0.226 ppm
Be 313.042 {108} (Radial)	-0.002 ppm
Ca 317.933 {106} (Radial)	528.725 ppm
Ca 373.690 {90} (Radial)	569.587 ppm
Fe 259.940 {130} (Radial)	-0.063 ppm
Fe 271.441 {124} (Radial)	0.169 ppm
K 766.490 {44} (Radial)	4.489 ppm
Li 670.784 {50} (Radial)	0.172 ppm
Mg 279.079 {121} (Radial)	62.662 ppm
Na 589.592 {57} (Radial)	62.021 ppm
Sr 421.552 {80} (Radial)	7.487 ppm
Ti 334.941 {101} (Radial)	0.077 ppm
V 292.402 {115} (Radial)	0.185 ppm

Basic sample report

12/1/2014 1:56:44 PM

	Concentration average
Co 228.616 {447} (Axial)	-0.010 ppm
Ni 231.604 {446} (Axial)	0.002 ppm
Pb 220.353 {453} (Axial)	-0.015 ppm
Sn 189.989 {478} (Axial)	0.002 ppm
Tl 190.856 {477} (Axial)	-0.026 ppm
As 189.042 {478} (Axial)	-0.019 ppm
Ba 233.527 {445} (Axial)	0.063 ppm
Mo 202.030 {467} (Axial)	0.015 ppm
S 182.034 {485} (Axial)	442.942 ppm
Si 251.611 {134} (Axial)	20.683 ppm
Sb 206.833 {463} (Axial)	0.037 ppm
Se 196.090 {472} (Axial)	0.079 ppm
Ag 328.068 {103} (Axial)	-0.008 ppm
Cr 267.716 {126} (Axial)	0.009 ppm
Mn 257.610 {131} (Axial)	0.088 ppm
Y 360.073 {94} (Radial)	100.376 %
Y 224.306 {450} (Axial)	97.460 %
In 230.606 {446} (Axial)	98.812 %
Y 360.073 {94} (Axial)	98.728 %
Na 818.326 {41} (Radial)	62.888 ppm
Zn 206.200 {463} (Axial)	0.028 ppm
Cd 228.802 {447} (Axial)	0.007 ppm
Cu 324.754 {104} (Radial)	-0.043 ppm

MS L735318-09 WG756740

Sample Type UNKNOWN Analysis Date 11/26/2014 3:51:10 PM

Dilution Factor 5

	Concentration average
Al 308.215 {109} (Radial)	1.242 ppm
B 249.678 {135} (Radial)	1.269 ppm
Be 313.042 {108} (Radial)	1.043 ppm
Ca 317.933 {106} (Radial)	618.846 ppm
Ca 373.690 {90} (Radial)	668.531 ppm
Fe 259.940 {130} (Radial)	0.925 ppm
Fe 271.441 {124} (Radial)	0.973 ppm
K 766.490 {44} (Radial)	15.556 ppm
Li 670.784 {50} (Radial)	1.329 ppm
Mg 279.079 {121} (Radial)	82.989 ppm
Na 589.592 {57} (Radial)	83.520 ppm
Sr 421.552 {80} (Radial)	9.710 ppm
Ti 334.941 {101} (Radial)	1.086 ppm
V 292.402 {115} (Radial)	1.144 ppm
Co 228.616 {447} (Axial)	0.946 ppm
Ni 231.604 {446} (Axial)	0.922 ppm
Pb 220.353 {453} (Axial)	0.933 ppm
Sn 189.989 {478} (Axial)	0.906 ppm
Tl 190.856 {477} (Axial)	0.945 ppm
As 189.042 {478} (Axial)	0.993 ppm
Ba 233.527 {445} (Axial)	1.053 ppm
Mo 202.030 {467} (Axial)	0.997 ppm
S 182.034 {485} (Axial)	485.093 ppm

Basic sample report

12/1/2014 1:56:44 PM

	Concentration average
Si 251.611 {134} (Axial)	23.982 ppm
Sb 206.833 {463} (Axial)	1.017 ppm
Se 196.090 {472} (Axial)	1.006 ppm
Ag 328.068 {103} (Axial)	0.992 ppm
Cr 267.716 {126} (Axial)	0.943 ppm
Mn 257.610 {131} (Axial)	1.066 ppm
Y 360.073 {94} (Radial)	93.498 %
Y 224.306 {450} (Axial)	96.193 %
In 230.606 {446} (Axial)	94.009 %
Y 360.073 {94} (Axial)	95.173 %
Na 818.326 {41} (Radial)	82.525 ppm
Zn 206.200 {463} (Axial)	0.918 ppm
Cd 228.802 {447} (Axial)	1.011 ppm
Cu 324.754 {104} (Radial)	1.062 ppm

MSD L735318-09 WG756740

Sample Type UNKNOWN Analysis Date 11/26/2014 3:55:29 PM

Dilution Factor 5

	Concentration average
Al 308.215 {109} (Radial)	0.846 ppm
B 249.678 {135} (Radial)	1.102 ppm
Be 313.042 {108} (Radial)	0.893 ppm
Ca 317.933 {106} (Radial)	536.343 ppm
Ca 373.690 {90} (Radial)	581.311 ppm
Fe 259.940 {130} (Radial)	0.815 ppm
Fe 271.441 {124} (Radial)	0.995 ppm
K 766.490 {44} (Radial)	13.463 ppm
Li 670.784 {50} (Radial)	1.145 ppm
Mg 279.079 {121} (Radial)	71.345 ppm
Na 589.592 {57} (Radial)	72.534 ppm
Sr 421.552 {80} (Radial)	8.460 ppm
Ti 334.941 {101} (Radial)	0.934 ppm
V 292.402 {115} (Radial)	0.969 ppm
Co 228.616 {447} (Axial)	0.964 ppm
Ni 231.604 {446} (Axial)	0.943 ppm
Pb 220.353 {453} (Axial)	0.951 ppm
Sn 189.989 {478} (Axial)	0.924 ppm
Tl 190.856 {477} (Axial)	0.953 ppm
As 189.042 {478} (Axial)	1.006 ppm
Ba 233.527 {445} (Axial)	1.072 ppm
Mo 202.030 {467} (Axial)	1.018 ppm
S 182.034 {485} (Axial)	502.705 ppm
Si 251.611 {134} (Axial)	22.657 ppm
Sb 206.833 {463} (Axial)	1.043 ppm
Se 196.090 {472} (Axial)	1.048 ppm
Ag 328.068 {103} (Axial)	0.933 ppm
Cr 267.716 {126} (Axial)	0.887 ppm
Mn 257.610 {131} (Axial)	1.004 ppm
Y 360.073 {94} (Radial)	100.138 %
Y 224.306 {450} (Axial)	91.913 %
In 230.606 {446} (Axial)	89.816 %

Basic sample report

12/1/2014 1:56:44 PM

	Concentration average
Y 360.073 {94} (Axial)	94.841 %
Na 818.326 {41} (Radial)	72.288 ppm
Zn 206.200 {463} (Axial)	0.940 ppm
Cd 228.802 {447} (Axial)	1.032 ppm
Cu 324.754 {104} (Radial)	0.921 ppm

CCV 14J24642

Sample Type QC Analysis Date 11/26/2014 3:59:47 PM

Dilution Factor 1

	Concentration average	Recovery Percentage 1
Al 308.215 {109} (Radial)	9.686 ppm	95.262 %
B 249.678 {135} (Radial)	2.005 ppm	100.146 %
Be 313.042 {108} (Radial)	0.196 ppm	97.339 %
Ca 317.933 {106} (Radial)	48.056 ppm	95.742 %
Ca 373.690 {90} (Radial)	51.816 ppm	103.087 %
Fe 259.940 {130} (Radial)	9.751 ppm	97.408 %
Fe 271.441 {124} (Radial)	10.842 ppm	107.457 %
K 766.490 {44} (Radial)	48.296 ppm	96.783 %
Li 670.784 {50} (Radial)	1.516 ppm	101.481 %
Mg 279.079 {121} (Radial)	9.617 ppm	96.166 %
Na 589.592 {57} (Radial)	49.658 ppm	99.616 %
Sr 421.552 {80} (Radial)	0.999 ppm	100.126 %
Ti 334.941 {101} (Radial)	1.006 ppm	100.628 %
V 292.402 {115} (Radial)	0.992 ppm	99.260 %
Co 228.616 {447} (Axial)	0.988 ppm	100.093 %
Ni 231.604 {446} (Axial)	1.981 ppm	100.465 %
Pb 220.353 {453} (Axial)	0.498 ppm	101.004 %
Sn 189.989 {478} (Axial)	1.973 ppm	100.242 %
Tl 190.856 {477} (Axial)	1.983 ppm	100.684 %
As 189.042 {478} (Axial)	2.026 ppm	102.488 %
Ba 233.527 {445} (Axial)	0.504 ppm	101.926 %
Mo 202.030 {467} (Axial)	0.498 ppm	100.657 %
S 182.034 {485} (Axial)	4.879 ppm	98.713 %
Si 251.611 {134} (Axial)	2.091 ppm	104.125 %
Sb 206.833 {463} (Axial)	2.079 ppm	104.893 %
Se 196.090 {472} (Axial)	2.103 ppm	106.300 %
Ag 328.068 {103} (Axial)	1.035 ppm	103.693 %
Cr 267.716 {126} (Axial)	0.973 ppm	97.569 %
Mn 257.610 {131} (Axial)	0.993 ppm	99.489 %
Y 360.073 {94} (Radial)	100.163 %	
Y 224.306 {450} (Axial)	94.634 %	
In 230.606 {446} (Axial)	89.480 %	
Y 360.073 {94} (Axial)	95.185 %	
Na 818.326 {41} (Radial)	49.875 ppm	99.922 %
Zn 206.200 {463} (Axial)	2.852 ppm	96.660 %
Cd 228.802 {447} (Axial)	0.548 ppm	111.090 %
Cu 324.754 {104} (Radial)	1.994 ppm	99.939 %

CCB

Basic sample report

12/1/2014 1:56:44 PM

Sample Type QC Analysis Date 11/26/2014 4:03:57 PM

Dilution Factor 1

	Concentration average	Recovery Percentage 1
Al 308.215 {109} (Radial)	0.048 ppm	73.289 %
B 249.678 {135} (Radial)	0.004 ppm	-4.182 %
Be 313.042 {108} (Radial)	0.000 ppm	-2.066 %
Ca 317.933 {106} (Radial)	0.001 ppm	1.062 %
Ca 373.690 {90} (Radial)	0.022 ppm	
Fe 259.940 {130} (Radial)	0.005 ppm	4.035 %
Fe 271.441 {124} (Radial)	0.006 ppm	
K 766.490 {44} (Radial)	0.004 ppm	-4.844 %
Li 670.784 {50} (Radial)	0.001 ppm	7.011 %
Mg 279.079 {121} (Radial)	-0.009 ppm	-8.983 %
Na 589.592 {57} (Radial)	0.003 ppm	0.684 %
Sr 421.552 {80} (Radial)	0.000 ppm	0.451 %
Ti 334.941 {101} (Radial)	0.000 ppm	-0.576 %
V 292.402 {115} (Radial)	0.003 ppm	42.967 %
Co 228.616 {447} (Axial)	0.000 ppm	-3.031 %
Ni 231.604 {446} (Axial)	0.000 ppm	-3.999 %
Pb 220.353 {453} (Axial)	-0.001 ppm	-40.497 %
Sn 189.989 {478} (Axial)	0.001 ppm	7.741 %
Tl 190.856 {477} (Axial)	0.000 ppm	1.121 %
As 189.042 {478} (Axial)	-0.001 ppm	-5.099 %
Ba 233.527 {445} (Axial)	0.000 ppm	-2.537 %
Mo 202.030 {467} (Axial)	0.000 ppm	6.474 %
S 182.034 {485} (Axial)	0.004 ppm	11.698 %
Si 251.611 {134} (Axial)	0.003 ppm	5.967 %
Sb 206.833 {463} (Axial)	0.002 ppm	18.524 %
Se 196.090 {472} (Axial)	0.002 ppm	11.116 %
Ag 328.068 {103} (Axial)	0.001 ppm	21.291 %
Cr 267.716 {126} (Axial)	0.000 ppm	4.090 %
Mn 257.610 {131} (Axial)	0.000 ppm	2.763 %
Y 360.073 {94} (Radial)	102.050 %	
Y 224.306 {450} (Axial)	99.550 %	
In 230.606 {446} (Axial)	102.058 %	
Y 360.073 {94} (Axial)	100.618 %	
Na 818.326 {41} (Radial)	0.084 ppm	
Zn 206.200 {463} (Axial)	0.001 ppm	2.671 %
Cd 228.802 {447} (Axial)	0.000 ppm	2.062 %
Cu 324.754 {104} (Radial)	-0.001 ppm	0.355 %

L734231-15 WG756740

Sample Type UNKNOWN Analysis Date 11/26/2014 4:08:31 PM

Dilution Factor 5

	Concentration average
Al 308.215 {109} (Radial)	0.711 ppm
B 249.678 {135} (Radial)	1.647 ppm
Be 313.042 {108} (Radial)	0.000 ppm
Ca 317.933 {106} (Radial)	573.345 ppm
Ca 373.690 {90} (Radial)	619.938 ppm

Basic sample report

12/1/2014 1:56:44 PM

	Concentration average
Fe 259.940 {130} (Radial)	0.341 ppm
Fe 271.441 {124} (Radial)	0.402 ppm
K 766.490 {44} (Radial)	98.216 ppm
Li 670.784 {50} (Radial)	0.382 ppm
Mg 279.079 {121} (Radial)	542.344 ppm
Na 589.592 {57} (Radial)	1,580.495 ppm
Sr 421.552 {80} (Radial)	14.463 ppm
Ti 334.941 {101} (Radial)	0.062 ppm
V 292.402 {115} (Radial)	0.033 ppm
Co 228.616 {447} (Axial)	0.010 ppm
Ni 231.604 {446} (Axial)	0.000 ppm
Pb 220.353 {453} (Axial)	0.001 ppm
Sn 189.989 {478} (Axial)	-0.002 ppm
Tl 190.856 {477} (Axial)	-0.018 ppm
As 189.042 {478} (Axial)	-0.007 ppm
Ba 233.527 {445} (Axial)	0.055 ppm
Mo 202.030 {467} (Axial)	0.270 ppm
S 182.034 {485} (Axial)	1,242.367 ppm
Si 251.611 {134} (Axial)	27.299 ppm
Sb 206.833 {463} (Axial)	-0.006 ppm
Se 196.090 {472} (Axial)	0.017 ppm
Ag 328.068 {103} (Axial)	-0.004 ppm
Cr 267.716 {126} (Axial)	0.003 ppm
Mn 257.610 {131} (Axial)	0.343 ppm
Y 360.073 {94} (Radial)	96.703 %
Y 224.306 {450} (Axial)	86.889 %
In 230.606 {446} (Axial)	80.269 %
Y 360.073 {94} (Axial)	88.393 %
Na 818.326 {41} (Radial)	1,686.640 ppm
Zn 206.200 {463} (Axial)	0.008 ppm
Cd 228.802 {447} (Axial)	0.002 ppm
Cu 324.754 {104} (Radial)	0.005 ppm

L734231-18 WG756740

Sample Type UNKNOWN Analysis Date 11/26/2014 4:13:03 PM

Dilution Factor 5

	Concentration average
Al 308.215 {109} (Radial)	0.244 ppm
B 249.678 {135} (Radial)	2.001 ppm
Be 313.042 {108} (Radial)	0.000 ppm
Ca 317.933 {106} (Radial)	562.603 ppm
Ca 373.690 {90} (Radial)	607.578 ppm
Fe 259.940 {130} (Radial)	-0.114 ppm
Fe 271.441 {124} (Radial)	-0.202 ppm
K 766.490 {44} (Radial)	193.733 ppm
Li 670.784 {50} (Radial)	0.462 ppm
Mg 279.079 {121} (Radial)	811.928 ppm
Na 589.592 {57} (Radial)	3,041.462 ppm
Sr 421.552 {80} (Radial)	14.950 ppm
Ti 334.941 {101} (Radial)	0.037 ppm
V 292.402 {115} (Radial)	0.013 ppm

Basic sample report

12/1/2014 1:56:44 PM

	Concentration average
Co 228.616 {447} (Axial)	0.012 ppm
Ni 231.604 {446} (Axial)	-0.004 ppm
Pb 220.353 {453} (Axial)	-0.011 ppm
Sn 189.989 {478} (Axial)	-0.002 ppm
Tl 190.856 {477} (Axial)	-0.024 ppm
As 189.042 {478} (Axial)	-0.011 ppm
Ba 233.527 {445} (Axial)	0.025 ppm
Mo 202.030 {467} (Axial)	0.497 ppm
S 182.034 {485} (Axial)	1,675.306 ppm
Si 251.611 {134} (Axial)	22.017 ppm
Sb 206.833 {463} (Axial)	0.003 ppm
Se 196.090 {472} (Axial)	0.004 ppm
Ag 328.068 {103} (Axial)	-0.003 ppm
Cr 267.716 {126} (Axial)	0.002 ppm
Mn 257.610 {131} (Axial)	0.523 ppm
Y 360.073 {94} (Radial)	94.545 %
Y 224.306 {450} (Axial)	83.546 %
In 230.606 {446} (Axial)	75.038 %
Y 360.073 {94} (Axial)	84.581 %
Na 818.326 {41} (Radial)	3,552.177 ppm
Zn 206.200 {463} (Axial)	0.008 ppm
Cd 228.802 {447} (Axial)	0.003 ppm
Cu 324.754 {104} (Radial)	-0.010 ppm

L734231-21 WG756740

Sample Type UNKNOWN Analysis Date 11/26/2014 4:17:36 PM

Dilution Factor 5

	Concentration average
Al 308.215 {109} (Radial)	0.159 ppm
B 249.678 {135} (Radial)	2.108 ppm
Be 313.042 {108} (Radial)	0.000 ppm
Ca 317.933 {106} (Radial)	568.748 ppm
Ca 373.690 {90} (Radial)	617.291 ppm
Fe 259.940 {130} (Radial)	-0.045 ppm
Fe 271.441 {124} (Radial)	-0.362 ppm
K 766.490 {44} (Radial)	214.804 ppm
Li 670.784 {50} (Radial)	0.508 ppm
Mg 279.079 {121} (Radial)	801.242 ppm
Na 589.592 {57} (Radial)	3,498.869 ppm
Sr 421.552 {80} (Radial)	14.246 ppm
Ti 334.941 {101} (Radial)	0.042 ppm
V 292.402 {115} (Radial)	0.017 ppm
Co 228.616 {447} (Axial)	0.015 ppm
Ni 231.604 {446} (Axial)	-0.002 ppm
Pb 220.353 {453} (Axial)	-0.010 ppm
Sn 189.989 {478} (Axial)	-0.005 ppm
Tl 190.856 {477} (Axial)	-0.023 ppm
As 189.042 {478} (Axial)	-0.008 ppm
Ba 233.527 {445} (Axial)	0.048 ppm
Mo 202.030 {467} (Axial)	0.363 ppm
S 182.034 {485} (Axial)	1,834.482 ppm

Basic sample report

12/1/2014 1:56:44 PM

	Concentration average
Si 251.611 {134} (Axial)	26.778 ppm
Sb 206.833 {463} (Axial)	0.009 ppm
Se 196.090 {472} (Axial)	0.011 ppm
Ag 328.068 {103} (Axial)	-0.004 ppm
Cr 267.716 {126} (Axial)	0.005 ppm
Mn 257.610 {131} (Axial)	0.550 ppm
Y 360.073 {94} (Radial)	94.294 %
Y 224.306 {450} (Axial)	82.653 %
In 230.606 {446} (Axial)	73.610 %
Y 360.073 {94} (Axial)	83.267 %
Na 818.326 {41} (Radial)	4,287.498 ppm
Zn 206.200 {463} (Axial)	0.009 ppm
Cd 228.802 {447} (Axial)	0.003 ppm
Cu 324.754 {104} (Radial)	-0.006 ppm

LCSD WG757005

Sample Type UNKNOWN Analysis Date 11/26/2014 4:33:34 PM

Dilution Factor 1

	Concentration average
Al 308.215 {109} (Radial)	10,848.156 ppm
B 249.678 {135} (Radial)	127.759 ppm
Be 313.042 {108} (Radial)	93.428 ppm
Ca 317.933 {106} (Radial)	6,652.373 ppm
Ca 373.690 {90} (Radial)	7,280.995 ppm
Fe 259.940 {130} (Radial)	12,585.229 ppm
Fe 271.441 {124} (Radial)	14,444.829 ppm
K 766.490 {44} (Radial)	3,117.109 ppm
Li 670.784 {50} (Radial)	10.413 ppm
Mg 279.079 {121} (Radial)	3,076.266 ppm
Na 589.592 {57} (Radial)	606.998 ppm
Sr 421.552 {80} (Radial)	132.514 ppm
Ti 334.941 {101} (Radial)	196.530 ppm
V 292.402 {115} (Radial)	124.559 ppm
Co 228.616 {447} (Axial)	192.503 ppm
Ni 231.604 {446} (Axial)	130.558 ppm
Pb 220.353 {453} (Axial)	109.854 ppm
Sn 189.989 {478} (Axial)	112.485 ppm
Tl 190.856 {477} (Axial)	162.764 ppm
As 189.042 {478} (Axial)	248.238 ppm
Ba 233.527 {445} (Axial)	308.545 ppm
Mo 202.030 {467} (Axial)	101.005 ppm
S 182.034 {485} (Axial)	293.884 ppm
Si 251.611 {134} (Axial)	299.069 ppm
Sb 206.833 {463} (Axial)	123.675 ppm
Se 196.090 {472} (Axial)	122.281 ppm
Ag 328.068 {103} (Axial)	50.486 ppm
Cr 267.716 {126} (Axial)	132.770 ppm
Mn 257.610 {131} (Axial)	344.782 ppm
Y 360.073 {94} (Radial)	104.979 %
Y 224.306 {450} (Axial)	94.666 %
In 230.606 {446} (Axial)	85.181 %

Basic sample report

12/1/2014 1:56:44 PM

	Concentration average
Y 360.073 {94} (Axial)	96.021 %
Na 818.326 {41} (Radial)	627.041 ppm
Zn 206.200 {463} (Axial)	180.678 ppm
Cd 228.802 {447} (Axial)	211.293 ppm
Cu 324.754 {104} (Radial)	129.486 ppm

L734231-23 WG756740

Sample Type UNKNOWN Analysis Date 11/26/2014 4:42:24 PM

Dilution Factor 5

	Concentration average
Al 308.215 {109} (Radial)	0.282 ppm
B 249.678 {135} (Radial)	0.813 ppm
Be 313.042 {108} (Radial)	0.003 ppm
Ca 317.933 {106} (Radial)	493.894 ppm
Ca 373.690 {90} (Radial)	531.560 ppm
Fe 259.940 {130} (Radial)	0.093 ppm
Fe 271.441 {124} (Radial)	-0.009 ppm
K 766.490 {44} (Radial)	65.450 ppm
Li 670.784 {50} (Radial)	0.201 ppm
Mg 279.079 {121} (Radial)	179.819 ppm
Na 589.592 {57} (Radial)	662.910 ppm
Sr 421.552 {80} (Radial)	10.009 ppm
Ti 334.941 {101} (Radial)	0.066 ppm
V 292.402 {115} (Radial)	0.053 ppm
Co 228.616 {447} (Axial)	0.018 ppm
Ni 231.604 {446} (Axial)	0.028 ppm
Pb 220.353 {453} (Axial)	-0.001 ppm
Sn 189.989 {478} (Axial)	0.027 ppm
Tl 190.856 {477} (Axial)	0.024 ppm
As 189.042 {478} (Axial)	0.039 ppm
Ba 233.527 {445} (Axial)	0.058 ppm
Mo 202.030 {467} (Axial)	0.310 ppm
S 182.034 {485} (Axial)	774.925 ppm
Si 251.611 {134} (Axial)	30.070 ppm
Sb 206.833 {463} (Axial)	0.049 ppm
Se 196.090 {472} (Axial)	0.060 ppm
Ag 328.068 {103} (Axial)	0.007 ppm
Cr 267.716 {126} (Axial)	0.014 ppm
Mn 257.610 {131} (Axial)	0.109 ppm
Y 360.073 {94} (Radial)	97.589 %
Y 224.306 {450} (Axial)	90.073 %
In 230.606 {446} (Axial)	84.987 %
Y 360.073 {94} (Axial)	91.215 %
Na 818.326 {41} (Radial)	672.548 ppm
Zn 206.200 {463} (Axial)	0.047 ppm
Cd 228.802 {447} (Axial)	0.010 ppm
Cu 324.754 {104} (Radial)	0.029 ppm

L734810-02 WG756740

Basic sample report

12/1/2014 1:56:44 PM

Sample Type UNKNOWN Analysis Date 11/26/2014 4:46:53 PM

Dilution Factor 5

	Concentration average
Al 308.215 {109} (Radial)	0.638 ppm
B 249.678 {135} (Radial)	0.201 ppm
Be 313.042 {108} (Radial)	-0.001 ppm
Ca 317.933 {106} (Radial)	720.179 ppm
Ca 373.690 {90} (Radial)	779.019 ppm
Fe 259.940 {130} (Radial)	0.062 ppm
Fe 271.441 {124} (Radial)	0.532 ppm
K 766.490 {44} (Radial)	8.212 ppm
Li 670.784 {50} (Radial)	0.127 ppm
Mg 279.079 {121} (Radial)	313.434 ppm
Na 589.592 {57} (Radial)	1,131.180 ppm
Sr 421.552 {80} (Radial)	15.391 ppm
Ti 334.941 {101} (Radial)	0.053 ppm
V 292.402 {115} (Radial)	0.028 ppm
Co 228.616 {447} (Axial)	0.010 ppm
Ni 231.604 {446} (Axial)	0.001 ppm
Pb 220.353 {453} (Axial)	-0.007 ppm
Sn 189.989 {478} (Axial)	-0.005 ppm
Tl 190.856 {477} (Axial)	-0.010 ppm
As 189.042 {478} (Axial)	-0.001 ppm
Ba 233.527 {445} (Axial)	0.070 ppm
Mo 202.030 {467} (Axial)	0.020 ppm
S 182.034 {485} (Axial)	676.387 ppm
Si 251.611 {134} (Axial)	10.920 ppm
Sb 206.833 {463} (Axial)	0.001 ppm
Se 196.090 {472} (Axial)	0.013 ppm
Ag 328.068 {103} (Axial)	0.001 ppm
Cr 267.716 {126} (Axial)	0.004 ppm
Mn 257.610 {131} (Axial)	0.312 ppm
Y 360.073 {94} (Radial)	96.868 %
Y 224.306 {450} (Axial)	87.967 %
In 230.606 {446} (Axial)	81.157 %
Y 360.073 {94} (Axial)	88.173 %
Na 818.326 {41} (Radial)	1,195.330 ppm
Zn 206.200 {463} (Axial)	0.017 ppm
Cd 228.802 {447} (Axial)	0.002 ppm
Cu 324.754 {104} (Radial)	-0.002 ppm

L734810-04 WG756740

Sample Type UNKNOWN Analysis Date 11/26/2014 4:51:27 PM

Dilution Factor 5

	Concentration average
Al 308.215 {109} (Radial)	0.689 ppm
B 249.678 {135} (Radial)	0.209 ppm
Be 313.042 {108} (Radial)	0.000 ppm
Ca 317.933 {106} (Radial)	769.362 ppm
Ca 373.690 {90} (Radial)	831.733 ppm

Basic sample report

12/1/2014 1:56:44 PM

	Concentration average
Fe 259.940 {130} (Radial)	0.487 ppm
Fe 271.441 {124} (Radial)	0.787 ppm
K 766.490 {44} (Radial)	7.238 ppm
Li 670.784 {50} (Radial)	0.136 ppm
Mg 279.079 {121} (Radial)	429.696 ppm
Na 589.592 {57} (Radial)	1,460.760 ppm
Sr 421.552 {80} (Radial)	16.624 ppm
Ti 334.941 {101} (Radial)	0.067 ppm
V 292.402 {115} (Radial)	0.043 ppm
Co 228.616 {447} (Axial)	0.008 ppm
Ni 231.604 {446} (Axial)	-0.002 ppm
Pb 220.353 {453} (Axial)	-0.005 ppm
Sn 189.989 {478} (Axial)	-0.004 ppm
Tl 190.856 {477} (Axial)	-0.009 ppm
As 189.042 {478} (Axial)	0.002 ppm
Ba 233.527 {445} (Axial)	0.055 ppm
Mo 202.030 {467} (Axial)	0.014 ppm
S 182.034 {485} (Axial)	756.727 ppm
Si 251.611 {134} (Axial)	13.873 ppm
Sb 206.833 {463} (Axial)	0.007 ppm
Se 196.090 {472} (Axial)	0.007 ppm
Ag 328.068 {103} (Axial)	-0.001 ppm
Cr 267.716 {126} (Axial)	0.003 ppm
Mn 257.610 {131} (Axial)	0.110 ppm
Y 360.073 {94} (Radial)	94.127 %
Y 224.306 {450} (Axial)	87.680 %
In 230.606 {446} (Axial)	80.374 %
Y 360.073 {94} (Axial)	87.044 %
Na 818.326 {41} (Radial)	1,545.468 ppm
Zn 206.200 {463} (Axial)	0.008 ppm
Cd 228.802 {447} (Axial)	0.002 ppm
Cu 324.754 {104} (Radial)	-0.008 ppm

L734810-06 WG756740

Sample Type UNKNOWN Analysis Date 11/26/2014 4:56:02 PM

Dilution Factor 5

	Concentration average
Al 308.215 {109} (Radial)	2.624 ppm
B 249.678 {135} (Radial)	0.451 ppm
Be 313.042 {108} (Radial)	-0.001 ppm
Ca 317.933 {106} (Radial)	656.016 ppm
Ca 373.690 {90} (Radial)	708.800 ppm
Fe 259.940 {130} (Radial)	2.696 ppm
Fe 271.441 {124} (Radial)	2.748 ppm
K 766.490 {44} (Radial)	9.190 ppm
Li 670.784 {50} (Radial)	0.129 ppm
Mg 279.079 {121} (Radial)	421.039 ppm
Na 589.592 {57} (Radial)	1,342.457 ppm
Sr 421.552 {80} (Radial)	12.093 ppm
Ti 334.941 {101} (Radial)	0.109 ppm
V 292.402 {115} (Radial)	0.031 ppm

Basic sample report

12/1/2014 1:56:44 PM

	Concentration average
Co 228.616 {447} (Axial)	0.009 ppm
Ni 231.604 {446} (Axial)	0.002 ppm
Pb 220.353 {453} (Axial)	0.004 ppm
Sn 189.989 {478} (Axial)	-0.005 ppm
Tl 190.856 {477} (Axial)	-0.008 ppm
As 189.042 {478} (Axial)	-0.009 ppm
Ba 233.527 {445} (Axial)	0.093 ppm
Mo 202.030 {467} (Axial)	0.016 ppm
S 182.034 {485} (Axial)	880.883 ppm
Si 251.611 {134} (Axial)	19.004 ppm
Sb 206.833 {463} (Axial)	0.003 ppm
Se 196.090 {472} (Axial)	0.038 ppm
Ag 328.068 {103} (Axial)	-0.005 ppm
Cr 267.716 {126} (Axial)	0.009 ppm
Mn 257.610 {131} (Axial)	0.241 ppm
Y 360.073 {94} (Radial)	96.478 %
Y 224.306 {450} (Axial)	88.752 %
In 230.606 {446} (Axial)	81.376 %
Y 360.073 {94} (Axial)	88.165 %
Na 818.326 {41} (Radial)	1,428.125 ppm
Zn 206.200 {463} (Axial)	0.015 ppm
Cd 228.802 {447} (Axial)	0.002 ppm
Cu 324.754 {104} (Radial)	0.000 ppm

L734810-08 WG756740

Sample Type UNKNOWN Analysis Date 11/26/2014 5:00:37 PM

Dilution Factor 5

	Concentration average
Al 308.215 {109} (Radial)	1.144 ppm
B 249.678 {135} (Radial)	0.435 ppm
Be 313.042 {108} (Radial)	-0.001 ppm
Ca 317.933 {106} (Radial)	723.603 ppm
Ca 373.690 {90} (Radial)	779.380 ppm
Fe 259.940 {130} (Radial)	0.847 ppm
Fe 271.441 {124} (Radial)	1.237 ppm
K 766.490 {44} (Radial)	10.254 ppm
Li 670.784 {50} (Radial)	0.149 ppm
Mg 279.079 {121} (Radial)	359.609 ppm
Na 589.592 {57} (Radial)	1,490.334 ppm
Sr 421.552 {80} (Radial)	14.034 ppm
Ti 334.941 {101} (Radial)	0.072 ppm
V 292.402 {115} (Radial)	0.019 ppm
Co 228.616 {447} (Axial)	0.010 ppm
Ni 231.604 {446} (Axial)	-0.001 ppm
Pb 220.353 {453} (Axial)	-0.003 ppm
Sn 189.989 {478} (Axial)	-0.004 ppm
Tl 190.856 {477} (Axial)	-0.002 ppm
As 189.042 {478} (Axial)	0.004 ppm
Ba 233.527 {445} (Axial)	0.067 ppm
Mo 202.030 {467} (Axial)	0.013 ppm
S 182.034 {485} (Axial)	913.156 ppm

Basic sample report

12/1/2014 1:56:44 PM

	Concentration average
Si 251.611 {134} (Axial)	16.532 ppm
Sb 206.833 {463} (Axial)	-0.006 ppm
Se 196.090 {472} (Axial)	0.018 ppm
Ag 328.068 {103} (Axial)	-0.001 ppm
Cr 267.716 {126} (Axial)	0.003 ppm
Mn 257.610 {131} (Axial)	0.328 ppm
Y 360.073 {94} (Radial)	96.453 %
Y 224.306 {450} (Axial)	88.325 %
In 230.606 {446} (Axial)	80.633 %
Y 360.073 {94} (Axial)	87.799 %
Na 818.326 {41} (Radial)	1,601.489 ppm
Zn 206.200 {463} (Axial)	0.014 ppm
Cd 228.802 {447} (Axial)	0.003 ppm
Cu 324.754 {104} (Radial)	0.011 ppm

L735181-03 WG756740

Sample Type UNKNOWN Analysis Date 11/26/2014 5:05:11 PM

Dilution Factor 5

	Concentration average
Al 308.215 {109} (Radial)	0.270 ppm
B 249.678 {135} (Radial)	0.355 ppm
Be 313.042 {108} (Radial)	0.000 ppm
Ca 317.933 {106} (Radial)	649.709 ppm
Ca 373.690 {90} (Radial)	699.163 ppm
Fe 259.940 {130} (Radial)	-0.136 ppm
Fe 271.441 {124} (Radial)	-0.012 ppm
K 766.490 {44} (Radial)	16.896 ppm
Li 670.784 {50} (Radial)	0.255 ppm
Mg 279.079 {121} (Radial)	320.477 ppm
Na 589.592 {57} (Radial)	1,297.930 ppm
Sr 421.552 {80} (Radial)	12.703 ppm
Ti 334.941 {101} (Radial)	0.043 ppm
V 292.402 {115} (Radial)	0.062 ppm
Co 228.616 {447} (Axial)	0.009 ppm
Ni 231.604 {446} (Axial)	0.004 ppm
Pb 220.353 {453} (Axial)	-0.006 ppm
Sn 189.989 {478} (Axial)	-0.005 ppm
Tl 190.856 {477} (Axial)	-0.009 ppm
As 189.042 {478} (Axial)	0.013 ppm
Ba 233.527 {445} (Axial)	0.057 ppm
Mo 202.030 {467} (Axial)	0.033 ppm
S 182.034 {485} (Axial)	940.414 ppm
Si 251.611 {134} (Axial)	30.348 ppm
Sb 206.833 {463} (Axial)	0.000 ppm
Se 196.090 {472} (Axial)	0.010 ppm
Ag 328.068 {103} (Axial)	-0.001 ppm
Cr 267.716 {126} (Axial)	0.004 ppm
Mn 257.610 {131} (Axial)	0.820 ppm
Y 360.073 {94} (Radial)	96.773 %
Y 224.306 {450} (Axial)	91.233 %
In 230.606 {446} (Axial)	83.374 %

Basic sample report

12/1/2014 1:56:44 PM

	Concentration average
Y 360.073 {94} (Axial)	89.581 %
Na 818.326 {41} (Radial)	1,402.145 ppm
Zn 206.200 {463} (Axial)	0.008 ppm
Cd 228.802 {447} (Axial)	0.002 ppm
Cu 324.754 {104} (Radial)	-0.011 ppm

L735181-04 WG756740

Sample Type UNKNOWN Analysis Date 11/26/2014 5:09:44 PM

Dilution Factor 5

	Concentration average
Al 308.215 {109} (Radial)	0.012 ppm
B 249.678 {135} (Radial)	0.276 ppm
Be 313.042 {108} (Radial)	0.000 ppm
Ca 317.933 {106} (Radial)	422.902 ppm
Ca 373.690 {90} (Radial)	454.267 ppm
Fe 259.940 {130} (Radial)	-0.014 ppm
Fe 271.441 {124} (Radial)	-0.277 ppm
K 766.490 {44} (Radial)	12.698 ppm
Li 670.784 {50} (Radial)	0.162 ppm
Mg 279.079 {121} (Radial)	448.206 ppm
Na 589.592 {57} (Radial)	1,862.898 ppm
Sr 421.552 {80} (Radial)	9.465 ppm
Ti 334.941 {101} (Radial)	0.035 ppm
V 292.402 {115} (Radial)	0.035 ppm
Co 228.616 {447} (Axial)	0.012 ppm
Ni 231.604 {446} (Axial)	0.002 ppm
Pb 220.353 {453} (Axial)	0.001 ppm
Sn 189.989 {478} (Axial)	-0.005 ppm
Tl 190.856 {477} (Axial)	-0.014 ppm
As 189.042 {478} (Axial)	0.005 ppm
Ba 233.527 {445} (Axial)	0.039 ppm
Mo 202.030 {467} (Axial)	0.012 ppm
S 182.034 {485} (Axial)	786.175 ppm
Si 251.611 {134} (Axial)	12.309 ppm
Sb 206.833 {463} (Axial)	0.002 ppm
Se 196.090 {472} (Axial)	0.019 ppm
Ag 328.068 {103} (Axial)	-0.007 ppm
Cr 267.716 {126} (Axial)	0.005 ppm
Mn 257.610 {131} (Axial)	0.365 ppm
Y 360.073 {94} (Radial)	96.372 %
Y 224.306 {450} (Axial)	92.498 %
In 230.606 {446} (Axial)	83.081 %
Y 360.073 {94} (Axial)	89.117 %
Na 818.326 {41} (Radial)	2,060.132 ppm
Zn 206.200 {463} (Axial)	0.007 ppm
Cd 228.802 {447} (Axial)	0.002 ppm
Cu 324.754 {104} (Radial)	0.005 ppm

CCV 14J24642

Basic sample report

12/1/2014 1:56:44 PM

Sample Type QC Analysis Date 11/26/2014 5:14:17 PM

Dilution Factor 1

	Concentration average	Recovery Percentage 1
Al 308.215 {109} (Radial)	9.232 ppm	90.136 %
B 249.678 {135} (Radial)	1.981 ppm	98.286 %
Be 313.042 {108} (Radial)	0.188 ppm	93.702 %
Ca 317.933 {106} (Radial)	47.615 ppm	95.125 %
Ca 373.690 {90} (Radial)	51.042 ppm	102.151 %
Fe 259.940 {130} (Radial)	9.654 ppm	96.209 %
Fe 271.441 {124} (Radial)	10.773 ppm	108.613 %
K 766.490 {44} (Radial)	47.665 ppm	94.987 %
Li 670.784 {50} (Radial)	1.513 ppm	100.239 %
Mg 279.079 {121} (Radial)	9.713 ppm	96.651 %
Na 589.592 {57} (Radial)	48.368 ppm	96.326 %
Sr 421.552 {80} (Radial)	0.988 ppm	98.313 %
Ti 334.941 {101} (Radial)	1.002 ppm	99.867 %
V 292.402 {115} (Radial)	0.980 ppm	97.985 %
Co 228.616 {447} (Axial)	1.003 ppm	99.930 %
Ni 231.604 {446} (Axial)	2.036 ppm	101.547 %
Pb 220.353 {453} (Axial)	0.510 ppm	101.746 %
Sn 189.989 {478} (Axial)	2.025 ppm	101.006 %
Tl 190.856 {477} (Axial)	2.005 ppm	99.928 %
As 189.042 {478} (Axial)	2.035 ppm	101.783 %
Ba 233.527 {445} (Axial)	0.506 ppm	101.105 %
Mo 202.030 {467} (Axial)	0.503 ppm	100.585 %
S 182.034 {485} (Axial)	5.029 ppm	100.487 %
Si 251.611 {134} (Axial)	2.082 ppm	104.038 %
Sb 206.833 {463} (Axial)	2.059 ppm	102.808 %
Se 196.090 {472} (Axial)	2.111 ppm	105.611 %
Ag 328.068 {103} (Axial)	1.038 ppm	103.482 %
Cr 267.716 {126} (Axial)	0.980 ppm	97.868 %
Mn 257.610 {131} (Axial)	1.018 ppm	101.613 %
Y 360.073 {94} (Radial)	100.784 %	
Y 224.306 {450} (Axial)	95.489 %	
In 230.606 {446} (Axial)	89.945 %	
Y 360.073 {94} (Axial)	94.979 %	
Na 818.326 {41} (Radial)	48.937 ppm	97.363 %
Zn 206.200 {463} (Axial)	2.922 ppm	96.987 %
Cd 228.802 {447} (Axial)	0.555 ppm	110.820 %
Cu 324.754 {104} (Radial)	1.951 ppm	96.716 %

CCB

Sample Type QC Analysis Date 11/26/2014 5:18:25 PM

Dilution Factor 1

	Concentration average	Recovery Percentage 1
Al 308.215 {109} (Radial)	0.027 ppm	17.016 %
B 249.678 {135} (Radial)	0.011 ppm	32.295 %
Be 313.042 {108} (Radial)	0.000 ppm	-12.704 %
Ca 317.933 {106} (Radial)	-0.002 ppm	-1.432 %
Ca 373.690 {90} (Radial)	0.020 ppm	

Basic sample report

12/1/2014 1:56:44 PM

	Concentration average	Recovery Percentage 1
Fe 259.940 {130} (Radial)	0.000 ppm	-9.650 %
Fe 271.441 {124} (Radial)	-0.026 ppm	
K 766.490 {44} (Radial)	0.024 ppm	5.078 %
Li 670.784 {50} (Radial)	0.001 ppm	5.104 %
Mg 279.079 {121} (Radial)	0.001 ppm	-6.840 %
Na 589.592 {57} (Radial)	0.038 ppm	15.495 %
Sr 421.552 {80} (Radial)	0.000 ppm	1.899 %
Ti 334.941 {101} (Radial)	0.000 ppm	-13.862 %
V 292.402 {115} (Radial)	0.005 ppm	78.764 %
Co 228.616 {447} (Axial)	0.000 ppm	-0.968 %
Ni 231.604 {446} (Axial)	0.000 ppm	-3.147 %
Pb 220.353 {453} (Axial)	-0.001 ppm	8.292 %
Sn 189.989 {478} (Axial)	0.000 ppm	6.053 %
Tl 190.856 {477} (Axial)	0.000 ppm	12.918 %
As 189.042 {478} (Axial)	0.001 ppm	3.466 %
Ba 233.527 {445} (Axial)	0.000 ppm	-0.213 %
Mo 202.030 {467} (Axial)	0.000 ppm	4.701 %
S 182.034 {485} (Axial)	0.008 ppm	15.489 %
Si 251.611 {134} (Axial)	0.003 ppm	7.144 %
Sb 206.833 {463} (Axial)	0.002 ppm	20.508 %
Se 196.090 {472} (Axial)	0.001 ppm	3.186 %
Ag 328.068 {103} (Axial)	-0.001 ppm	-6.027 %
Cr 267.716 {126} (Axial)	0.000 ppm	4.509 %
Mn 257.610 {131} (Axial)	0.000 ppm	1.913 %
Y 360.073 {94} (Radial)	101.772 %	
Y 224.306 {450} (Axial)	99.381 %	
In 230.606 {446} (Axial)	102.036 %	
Y 360.073 {94} (Axial)	99.297 %	
Na 818.326 {41} (Radial)	0.143 ppm	
Zn 206.200 {463} (Axial)	0.000 ppm	-0.137 %
Cd 228.802 {447} (Axial)	0.000 ppm	0.734 %
Cu 324.754 {104} (Radial)	-0.001 ppm	0.233 %

L735181-06 WG756740

Sample Type UNKNOWN Analysis Date 11/26/2014 5:22:56 PM

Dilution Factor 5

	Concentration average
Al 308.215 {109} (Radial)	0.866 ppm
B 249.678 {135} (Radial)	0.512 ppm
Be 313.042 {108} (Radial)	-0.001 ppm
Ca 317.933 {106} (Radial)	681.480 ppm
Ca 373.690 {90} (Radial)	734.661 ppm
Fe 259.940 {130} (Radial)	0.480 ppm
Fe 271.441 {124} (Radial)	0.954 ppm
K 766.490 {44} (Radial)	14.587 ppm
Li 670.784 {50} (Radial)	0.376 ppm
Mg 279.079 {121} (Radial)	347.068 ppm
Na 589.592 {57} (Radial)	1,236.233 ppm
Sr 421.552 {80} (Radial)	14.074 ppm
Ti 334.941 {101} (Radial)	0.062 ppm
V 292.402 {115} (Radial)	0.117 ppm

Basic sample report

12/1/2014 1:56:44 PM

	Concentration average
Co 228.616 {447} (Axial)	0.005 ppm
Ni 231.604 {446} (Axial)	0.003 ppm
Pb 220.353 {453} (Axial)	0.000 ppm
Sn 189.989 {478} (Axial)	-0.005 ppm
Tl 190.856 {477} (Axial)	-0.023 ppm
As 189.042 {478} (Axial)	0.007 ppm
Ba 233.527 {445} (Axial)	0.062 ppm
Mo 202.030 {467} (Axial)	0.056 ppm
S 182.034 {485} (Axial)	912.641 ppm
Si 251.611 {134} (Axial)	32.553 ppm
Sb 206.833 {463} (Axial)	0.006 ppm
Se 196.090 {472} (Axial)	0.010 ppm
Ag 328.068 {103} (Axial)	0.000 ppm
Cr 267.716 {126} (Axial)	0.004 ppm
Mn 257.610 {131} (Axial)	0.230 ppm
Y 360.073 {94} (Radial)	98.209 %
Y 224.306 {450} (Axial)	87.130 %
In 230.606 {446} (Axial)	81.204 %
Y 360.073 {94} (Axial)	89.375 %
Na 818.326 {41} (Radial)	1,305.865 ppm
Zn 206.200 {463} (Axial)	0.011 ppm
Cd 228.802 {447} (Axial)	0.003 ppm
Cu 324.754 {104} (Radial)	0.009 ppm

L735181-09 WG756740

Sample Type UNKNOWN Analysis Date 11/26/2014 5:27:30 PM

Dilution Factor 5

	Concentration average
Al 308.215 {109} (Radial)	0.074 ppm
B 249.678 {135} (Radial)	0.226 ppm
Be 313.042 {108} (Radial)	0.000 ppm
Ca 317.933 {106} (Radial)	578.173 ppm
Ca 373.690 {90} (Radial)	623.527 ppm
Fe 259.940 {130} (Radial)	-0.129 ppm
Fe 271.441 {124} (Radial)	-0.189 ppm
K 766.490 {44} (Radial)	16.024 ppm
Li 670.784 {50} (Radial)	0.358 ppm
Mg 279.079 {121} (Radial)	124.175 ppm
Na 589.592 {57} (Radial)	75.292 ppm
Sr 421.552 {80} (Radial)	10.425 ppm
Ti 334.941 {101} (Radial)	0.053 ppm
V 292.402 {115} (Radial)	0.048 ppm
Co 228.616 {447} (Axial)	0.000 ppm
Ni 231.604 {446} (Axial)	0.004 ppm
Pb 220.353 {453} (Axial)	-0.008 ppm
Sn 189.989 {478} (Axial)	-0.006 ppm
Tl 190.856 {477} (Axial)	-0.009 ppm
As 189.042 {478} (Axial)	0.015 ppm
Ba 233.527 {445} (Axial)	0.088 ppm
Mo 202.030 {467} (Axial)	0.031 ppm
S 182.034 {485} (Axial)	558.205 ppm

Basic sample report

12/1/2014 1:56:44 PM

	Concentration average
Si 251.611 {134} (Axial)	40.760 ppm
Sb 206.833 {463} (Axial)	-0.001 ppm
Se 196.090 {472} (Axial)	0.015 ppm
Ag 328.068 {103} (Axial)	0.000 ppm
Cr 267.716 {126} (Axial)	0.005 ppm
Mn 257.610 {131} (Axial)	0.638 ppm
Y 360.073 {94} (Radial)	98.881 %
Y 224.306 {450} (Axial)	93.087 %
In 230.606 {446} (Axial)	90.814 %
Y 360.073 {94} (Axial)	94.204 %
Na 818.326 {41} (Radial)	75.978 ppm
Zn 206.200 {463} (Axial)	0.007 ppm
Cd 228.802 {447} (Axial)	0.003 ppm
Cu 324.754 {104} (Radial)	-0.005 ppm

L735318-06 WG756740

Sample Type UNKNOWN Analysis Date 11/26/2014 5:50:43 PM

Dilution Factor 5

	Concentration average
Al 308.215 {109} (Radial)	0.103 ppm
B 249.678 {135} (Radial)	0.545 ppm
Be 313.042 {108} (Radial)	-0.001 ppm
Ca 317.933 {106} (Radial)	597.328 ppm
Ca 373.690 {90} (Radial)	644.461 ppm
Fe 259.940 {130} (Radial)	-0.100 ppm
Fe 271.441 {124} (Radial)	0.023 ppm
K 766.490 {44} (Radial)	18.718 ppm
Li 670.784 {50} (Radial)	0.211 ppm
Mg 279.079 {121} (Radial)	175.398 ppm
Na 589.592 {57} (Radial)	60.032 ppm
Sr 421.552 {80} (Radial)	10.566 ppm
Ti 334.941 {101} (Radial)	0.056 ppm
V 292.402 {115} (Radial)	0.065 ppm
Co 228.616 {447} (Axial)	-0.001 ppm
Ni 231.604 {446} (Axial)	0.002 ppm
Pb 220.353 {453} (Axial)	-0.002 ppm
Sn 189.989 {478} (Axial)	-0.005 ppm
Tl 190.856 {477} (Axial)	-0.004 ppm
As 189.042 {478} (Axial)	-0.002 ppm
Ba 233.527 {445} (Axial)	0.067 ppm
Mo 202.030 {467} (Axial)	0.027 ppm
S 182.034 {485} (Axial)	618.593 ppm
Si 251.611 {134} (Axial)	27.917 ppm
Sb 206.833 {463} (Axial)	0.001 ppm
Se 196.090 {472} (Axial)	0.012 ppm
Ag 328.068 {103} (Axial)	-0.003 ppm
Cr 267.716 {126} (Axial)	0.003 ppm
Mn 257.610 {131} (Axial)	0.294 ppm
Y 360.073 {94} (Radial)	94.415 %
Y 224.306 {450} (Axial)	92.833 %
In 230.606 {446} (Axial)	90.485 %

Basic sample report

12/1/2014 1:56:44 PM

	Concentration average
Y 360.073 {94} (Axial)	94.391 %
Na 818.326 {41} (Radial)	59.901 ppm
Zn 206.200 {463} (Axial)	0.005 ppm
Cd 228.802 {447} (Axial)	0.003 ppm
Cu 324.754 {104} (Radial)	0.011 ppm

LCSD WG755430

Sample Type UNKNOWN Analysis Date 11/26/2014 5:55:08 PM

Dilution Factor 1

	Concentration average
Al 308.215 {109} (Radial)	7,636.535 ppm
B 249.678 {135} (Radial)	119.060 ppm
Be 313.042 {108} (Radial)	94.633 ppm
Ca 317.933 {106} (Radial)	6,549.960 ppm
Ca 373.690 {90} (Radial)	7,154.792 ppm
Fe 259.940 {130} (Radial)	11,401.025 ppm
Fe 271.441 {124} (Radial)	13,003.545 ppm
K 766.490 {44} (Radial)	2,669.259 ppm
Li 670.784 {50} (Radial)	8.564 ppm
Mg 279.079 {121} (Radial)	2,808.648 ppm
Na 589.592 {57} (Radial)	594.909 ppm
Sr 421.552 {80} (Radial)	136.317 ppm
Ti 334.941 {101} (Radial)	147.729 ppm
V 292.402 {115} (Radial)	117.311 ppm
Co 228.616 {447} (Axial)	191.878 ppm
Ni 231.604 {446} (Axial)	126.901 ppm
Pb 220.353 {453} (Axial)	123.799 ppm
Sn 189.989 {478} (Axial)	106.866 ppm
Tl 190.856 {477} (Axial)	170.644 ppm
As 189.042 {478} (Axial)	255.191 ppm
Ba 233.527 {445} (Axial)	259.635 ppm
Mo 202.030 {467} (Axial)	96.163 ppm
S 182.034 {485} (Axial)	266.709 ppm
Si 251.611 {134} (Axial)	3,176.708 ppm
Sb 206.833 {463} (Axial)	118.910 ppm
Se 196.090 {472} (Axial)	121.954 ppm
Ag 328.068 {103} (Axial)	36.639 ppm
Cr 267.716 {126} (Axial)	127.981 ppm
Mn 257.610 {131} (Axial)	330.992 ppm
Y 360.073 {94} (Radial)	103.022 %
Y 224.306 {450} (Axial)	94.117 %
In 230.606 {446} (Axial)	85.927 %
Y 360.073 {94} (Axial)	96.260 %
Na 818.326 {41} (Radial)	627.286 ppm
Zn 206.200 {463} (Axial)	178.854 ppm
Cd 228.802 {447} (Axial)	210.859 ppm
Cu 324.754 {104} (Radial)	128.700 ppm

Basic sample report

12/1/2014 1:56:44 PM

Sample Type UNKNOWN Analysis Date 11/26/2014 5:59:17 PM

Dilution Factor 5

	Concentration average
Al 308.215 {109} (Radial)	563.564 ppm
B 249.678 {135} (Radial)	475.178 ppm
Be 313.042 {108} (Radial)	442.610 ppm
Ca 317.933 {106} (Radial)	143,450.549 ppm
Ca 373.690 {90} (Radial)	158,213.772 ppm
Fe 259.940 {130} (Radial)	543.740 ppm
Fe 271.441 {124} (Radial)	636.354 ppm
K 766.490 {44} (Radial)	4,729.166 ppm
Li 670.784 {50} (Radial)	493.078 ppm
Mg 279.079 {121} (Radial)	5,309.287 ppm
Na 589.592 {57} (Radial)	6,245.747 ppm
Sr 421.552 {80} (Radial)	987.360 ppm
Ti 334.941 {101} (Radial)	464.029 ppm
V 292.402 {115} (Radial)	476.092 ppm
Co 228.616 {447} (Axial)	475.820 ppm
Ni 231.604 {446} (Axial)	469.405 ppm
Pb 220.353 {453} (Axial)	468.580 ppm
Sn 189.989 {478} (Axial)	461.076 ppm
Tl 190.856 {477} (Axial)	454.511 ppm
As 189.042 {478} (Axial)	497.181 ppm
Ba 233.527 {445} (Axial)	481.881 ppm
Mo 202.030 {467} (Axial)	479.899 ppm
S 182.034 {485} (Axial)	103,904.970 ppm
Si 251.611 {134} (Axial)	650.712 ppm
Sb 206.833 {463} (Axial)	492.898 ppm
Se 196.090 {472} (Axial)	513.240 ppm
Ag 328.068 {103} (Axial)	453.810 ppm
Cr 267.716 {126} (Axial)	450.740 ppm
Mn 257.610 {131} (Axial)	472.646 ppm
Y 360.073 {94} (Radial)	96.278 %
Y 224.306 {450} (Axial)	89.712 %
In 230.606 {446} (Axial)	84.553 %
Y 360.073 {94} (Axial)	90.225 %
Na 818.326 {41} (Radial)	6,077.446 ppm
Zn 206.200 {463} (Axial)	459.335 ppm
Cd 228.802 {447} (Axial)	503.576 ppm
Cu 324.754 {104} (Radial)	467.745 ppm

PS L734231-08 WG755430

Sample Type UNKNOWN Analysis Date 11/26/2014 6:03:31 PM

Dilution Factor 5

	Concentration average
Al 308.215 {109} (Radial)	1,670.487 ppm
B 249.678 {135} (Radial)	523.324 ppm
Be 313.042 {108} (Radial)	478.601 ppm
Ca 317.933 {106} (Radial)	129,622.707 ppm
Ca 373.690 {90} (Radial)	141,876.291 ppm

Basic sample report

12/1/2014 1:56:44 PM

	Concentration average
Fe 259.940 {130} (Radial)	1,698.190 ppm
Fe 271.441 {124} (Radial)	1,947.147 ppm
K 766.490 {44} (Radial)	5,481.351 ppm
Li 670.784 {50} (Radial)	546.122 ppm
Mg 279.079 {121} (Radial)	22,166.797 ppm
Na 589.592 {57} (Radial)	6,576.593 ppm
Sr 421.552 {80} (Radial)	2,783.184 ppm
Ti 334.941 {101} (Radial)	522.773 ppm
V 292.402 {115} (Radial)	520.845 ppm
Co 228.616 {447} (Axial)	512.313 ppm
Ni 231.604 {446} (Axial)	503.053 ppm
Pb 220.353 {453} (Axial)	507.202 ppm
Sn 189.989 {478} (Axial)	498.978 ppm
Tl 190.856 {477} (Axial)	492.619 ppm
As 189.042 {478} (Axial)	535.237 ppm
Ba 233.527 {445} (Axial)	548.809 ppm
Mo 202.030 {467} (Axial)	516.439 ppm
S 182.034 {485} (Axial)	88,353.936 ppm
Si 251.611 {134} (Axial)	686.920 ppm
Sb 206.833 {463} (Axial)	529.704 ppm
Se 196.090 {472} (Axial)	548.551 ppm
Ag 328.068 {103} (Axial)	487.439 ppm
Cr 267.716 {126} (Axial)	487.730 ppm
Mn 257.610 {131} (Axial)	542.310 ppm
Y 360.073 {94} (Radial)	95.380 %
Y 224.306 {450} (Axial)	89.277 %
In 230.606 {446} (Axial)	83.750 %
Y 360.073 {94} (Axial)	89.953 %
Na 818.326 {41} (Radial)	6,471.964 ppm
Zn 206.200 {463} (Axial)	494.924 ppm
Cd 228.802 {447} (Axial)	540.954 ppm
Cu 324.754 {104} (Radial)	504.184 ppm

PS L735318-09 WG756740

Sample Type UNKNOWN Analysis Date 11/26/2014 6:07:45 PM

Dilution Factor 5

	Concentration average
Al 308.215 {109} (Radial)	4.742 ppm
B 249.678 {135} (Radial)	5.714 ppm
Be 313.042 {108} (Radial)	5.214 ppm
Ca 317.933 {106} (Radial)	645.620 ppm
Ca 373.690 {90} (Radial)	696.569 ppm
Fe 259.940 {130} (Radial)	5.232 ppm
Fe 271.441 {124} (Radial)	6.507 ppm
K 766.490 {44} (Radial)	57.883 ppm
Li 670.784 {50} (Radial)	5.753 ppm
Mg 279.079 {121} (Radial)	123.720 ppm
Na 589.592 {57} (Radial)	123.213 ppm
Sr 421.552 {80} (Radial)	13.694 ppm
Ti 334.941 {101} (Radial)	5.345 ppm
V 292.402 {115} (Radial)	5.601 ppm

Basic sample report

12/1/2014 1:56:44 PM

	Concentration average
Co 228.616 {447} (Axial)	5.484 ppm
Ni 231.604 {446} (Axial)	5.403 ppm
Pb 220.353 {453} (Axial)	5.437 ppm
Sn 189.989 {478} (Axial)	5.342 ppm
Tl 190.856 {477} (Axial)	5.321 ppm
As 189.042 {478} (Axial)	5.588 ppm
Ba 233.527 {445} (Axial)	5.583 ppm
Mo 202.030 {467} (Axial)	5.571 ppm
S 182.034 {485} (Axial)	533.426 ppm
Si 251.611 {134} (Axial)	29.358 ppm
Sb 206.833 {463} (Axial)	5.585 ppm
Se 196.090 {472} (Axial)	5.728 ppm
Ag 328.068 {103} (Axial)	5.198 ppm
Cr 267.716 {126} (Axial)	5.237 ppm
Mn 257.610 {131} (Axial)	5.549 ppm
Y 360.073 {94} (Radial)	98.145 %
Y 224.306 {450} (Axial)	93.277 %
In 230.606 {446} (Axial)	88.598 %
Y 360.073 {94} (Axial)	92.698 %
Na 818.326 {41} (Radial)	123.201 ppm
Zn 206.200 {463} (Axial)	5.348 ppm
Cd 228.802 {447} (Axial)	5.686 ppm
Cu 324.754 {104} (Radial)	5.359 ppm

CCV 14J27642

Sample Type QC Analysis Date 11/26/2014 6:11:58 PM

Dilution Factor 1

	Concentration average	Recovery Percentage 1
Al 308.215 {109} (Radial)	9.339 ppm	92.808 %
B 249.678 {135} (Radial)	1.966 ppm	98.703 %
Be 313.042 {108} (Radial)	0.189 ppm	93.432 %
Ca 317.933 {106} (Radial)	48.035 ppm	95.181 %
Ca 373.690 {90} (Radial)	51.575 ppm	102.138 %
Fe 259.940 {130} (Radial)	9.671 ppm	95.715 %
Fe 271.441 {124} (Radial)	10.712 ppm	104.171 %
K 766.490 {44} (Radial)	47.221 ppm	93.381 %
Li 670.784 {50} (Radial)	1.458 ppm	96.173 %
Mg 279.079 {121} (Radial)	9.580 ppm	94.561 %
Na 589.592 {57} (Radial)	48.204 ppm	95.329 %
Sr 421.552 {80} (Radial)	0.977 ppm	96.397 %
Ti 334.941 {101} (Radial)	0.993 ppm	98.273 %
V 292.402 {115} (Radial)	0.977 ppm	95.738 %
Co 228.616 {447} (Axial)	1.004 ppm	100.121 %
Ni 231.604 {446} (Axial)	2.027 ppm	101.199 %
Pb 220.353 {453} (Axial)	0.498 ppm	99.397 %
Sn 189.989 {478} (Axial)	1.998 ppm	99.657 %
Tl 190.856 {477} (Axial)	1.941 ppm	97.017 %
As 189.042 {478} (Axial)	2.000 ppm	99.748 %
Ba 233.527 {445} (Axial)	0.502 ppm	100.443 %
Mo 202.030 {467} (Axial)	0.501 ppm	100.196 %
S 182.034 {485} (Axial)	4.804 ppm	95.989 %

Basic sample report

12/1/2014 1:56:44 PM

	Concentration average	Recovery Percentage 1
Si 251.611 {134} (Axial)	2.002 ppm	99.907 %
Sb 206.833 {463} (Axial)	1.987 ppm	99.554 %
Se 196.090 {472} (Axial)	2.060 ppm	103.034 %
Ag 328.068 {103} (Axial)	1.011 ppm	101.193 %
Cr 267.716 {126} (Axial)	0.995 ppm	99.402 %
Mn 257.610 {131} (Axial)	1.019 ppm	102.119 %
Y 360.073 {94} (Radial)	99.229 %	
Y 224.306 {450} (Axial)	96.093 %	
In 230.606 {446} (Axial)	89.505 %	
Y 360.073 {94} (Axial)	94.365 %	
Na 818.326 {41} (Radial)	48.308 ppm	95.497 %
Zn 206.200 {463} (Axial)	2.964 ppm	98.527 %
Cd 228.802 {447} (Axial)	0.534 ppm	106.895 %
Cu 324.754 {104} (Radial)	1.929 ppm	95.393 %

CCB

Sample Type QC Analysis Date 11/26/2014 6:16:10 PM

Dilution Factor 1

	Concentration average	Recovery Percentage 1
Al 308.215 {109} (Radial)	-0.008 ppm	-8.901 %
B 249.678 {135} (Radial)	0.007 ppm	20.162 %
Be 313.042 {108} (Radial)	0.000 ppm	8.254 %
Ca 317.933 {106} (Radial)	-0.003 ppm	-1.894 %
Ca 373.690 {90} (Radial)	0.017 ppm	
Fe 259.940 {130} (Radial)	0.003 ppm	19.788 %
Fe 271.441 {124} (Radial)	-0.025 ppm	
K 766.490 {44} (Radial)	0.014 ppm	10.618 %
Li 670.784 {50} (Radial)	0.000 ppm	3.470 %
Mg 279.079 {121} (Radial)	0.002 ppm	13.957 %
Na 589.592 {57} (Radial)	0.003 ppm	1.880 %
Sr 421.552 {80} (Radial)	0.000 ppm	3.539 %
Ti 334.941 {101} (Radial)	0.001 ppm	2.547 %
V 292.402 {115} (Radial)	0.005 ppm	64.279 %
Co 228.616 {447} (Axial)	0.000 ppm	0.383 %
Ni 231.604 {446} (Axial)	0.000 ppm	-0.586 %
Pb 220.353 {453} (Axial)	-0.001 ppm	-6.791 %
Sn 189.989 {478} (Axial)	0.000 ppm	2.575 %
Tl 190.856 {477} (Axial)	0.000 ppm	-1.358 %
As 189.042 {478} (Axial)	0.002 ppm	22.220 %
Ba 233.527 {445} (Axial)	0.000 ppm	2.987 %
Mo 202.030 {467} (Axial)	0.000 ppm	3.340 %
S 182.034 {485} (Axial)	0.007 ppm	11.230 %
Si 251.611 {134} (Axial)	0.004 ppm	10.100 %
Sb 206.833 {463} (Axial)	0.001 ppm	17.274 %
Se 196.090 {472} (Axial)	0.001 ppm	15.073 %
Ag 328.068 {103} (Axial)	0.001 ppm	2.263 %
Cr 267.716 {126} (Axial)	0.000 ppm	4.385 %
Mn 257.610 {131} (Axial)	0.000 ppm	2.021 %
Y 360.073 {94} (Radial)	100.728 %	
Y 224.306 {450} (Axial)	100.992 %	
In 230.606 {446} (Axial)	100.219 %	

Basic sample report

12/1/2014 1:56:44 PM

	Concentration average	Recovery Percentage 1
Y 360.073 {94} (Axial)	98.561 %	
Na 818.326 {41} (Radial)	0.101 ppm	
Zn 206.200 {463} (Axial)	0.000 ppm	0.856 %
Cd 228.802 {447} (Axial)	0.000 ppm	-0.435 %
Cu 324.754 {104} (Radial)	-0.003 ppm	-0.421 %

CCVLL 14G16199

Sample Type QC Analysis Date 11/26/2014 6:20:43 PM

Dilution Factor 1

	Concentration average	Recovery Percentage 1
Al 308.215 {109} (Radial)	0.176 ppm	183.175 %
B 249.678 {135} (Radial)	0.202 ppm	105.245 %
Be 313.042 {108} (Radial)	0.002 ppm	94.657 %
Ca 317.933 {106} (Radial)	0.515 ppm	103.712 %
Ca 373.690 {90} (Radial)	0.560 ppm	107.513 %
Fe 259.940 {130} (Radial)	0.103 ppm	101.500 %
Fe 271.441 {124} (Radial)	0.117 ppm	179.514 %
K 766.490 {44} (Radial)	0.505 ppm	103.324 %
Li 670.784 {50} (Radial)	0.016 ppm	107.142 %
Mg 279.079 {121} (Radial)	0.105 ppm	62.028 %
Na 589.592 {57} (Radial)	0.503 ppm	101.375 %
Sr 421.552 {80} (Radial)	0.010 ppm	103.547 %
Ti 334.941 {101} (Radial)	0.010 ppm	101.265 %
V 292.402 {115} (Radial)	0.014 ppm	165.656 %
Co 228.616 {447} (Axial)	0.010 ppm	102.201 %
Ni 231.604 {446} (Axial)	0.020 ppm	103.696 %
Pb 220.353 {453} (Axial)	0.004 ppm	85.604 %
Sn 189.989 {478} (Axial)	0.020 ppm	104.210 %
Tl 190.856 {477} (Axial)	0.019 ppm	102.671 %
As 189.042 {478} (Axial)	0.019 ppm	97.208 %
Ba 233.527 {445} (Axial)	0.005 ppm	107.339 %
Mo 202.030 {467} (Axial)	0.005 ppm	104.959 %
S 182.034 {485} (Axial)	4.545 ppm	91.890 %
Si 251.611 {134} (Axial)	0.216 ppm	96.172 %
Sb 206.833 {463} (Axial)	0.020 ppm	104.495 %
Se 196.090 {472} (Axial)	0.021 ppm	116.750 %
Ag 328.068 {103} (Axial)	0.010 ppm	93.372 %
Cr 267.716 {126} (Axial)	0.012 ppm	105.090 %
Mn 257.610 {131} (Axial)	0.012 ppm	105.921 %
Y 360.073 {94} (Radial)	99.366 %	
Y 224.306 {450} (Axial)	101.116 %	
In 230.606 {446} (Axial)	100.275 %	
Y 360.073 {94} (Axial)	90.395 %	
Na 818.326 {41} (Radial)	0.393 ppm	71.456 %
Zn 206.200 {463} (Axial)	0.031 ppm	104.852 %
Cd 228.802 {447} (Axial)	0.005 ppm	109.903 %
Cu 324.754 {104} (Radial)	0.020 ppm	99.227 %

Basic sample report

12/1/2014 1:56:44 PM

Sample Type QC Analysis Date 11/26/2014 6:25:14 PM

Dilution Factor 1

	Concentration average	Recovery Percentage 1
Al 308.215 {109} (Radial)	487.943 ppm	97.991 %
B 249.678 {135} (Radial)	0.002 ppm	-Infinity %
Be 313.042 {108} (Radial)	0.000 ppm	Infinity %
Ca 317.933 {106} (Radial)	443.056 ppm	88.348 %
Ca 373.690 {90} (Radial)	498.010 ppm	99.571 %
Fe 259.940 {130} (Radial)	174.710 ppm	87.380 %
Fe 271.441 {124} (Radial)	200.607 ppm	99.975 %
K 766.490 {44} (Radial)	0.023 ppm	Infinity %
Li 670.784 {50} (Radial)	0.004 ppm	Infinity %
Mg 279.079 {121} (Radial)	512.140 ppm	102.274 %
Na 589.592 {57} (Radial)	0.045 ppm	Infinity %
Sr 421.552 {80} (Radial)	0.008 ppm	Infinity %
Ti 334.941 {101} (Radial)	-0.001 ppm	-Infinity %
V 292.402 {115} (Radial)	0.012 ppm	Infinity %
Co 228.616 {447} (Axial)	0.001 ppm	Infinity %
Ni 231.604 {446} (Axial)	-0.012 ppm	-Infinity %
Pb 220.353 {453} (Axial)	-0.030 ppm	-Infinity %
Sn 189.989 {478} (Axial)	0.001 ppm	
Tl 190.856 {477} (Axial)	-0.006 ppm	-Infinity %
As 189.042 {478} (Axial)	-0.007 ppm	-Infinity %
Ba 233.527 {445} (Axial)	0.002 ppm	Infinity %
Mo 202.030 {467} (Axial)	-0.002 ppm	-Infinity %
S 182.034 {485} (Axial)	0.006 ppm	Infinity %
Si 251.611 {134} (Axial)	0.001 ppm	-Infinity %
Sb 206.833 {463} (Axial)	-0.008 ppm	-Infinity %
Se 196.090 {472} (Axial)	0.020 ppm	Infinity %
Ag 328.068 {103} (Axial)	0.000 ppm	-Infinity %
Cr 267.716 {126} (Axial)	0.002 ppm	Infinity %
Mn 257.610 {131} (Axial)	-0.004 ppm	-Infinity %
Y 360.073 {94} (Radial)	96.074 %	
Y 224.306 {450} (Axial)	85.382 %	
In 230.606 {446} (Axial)	72.930 %	
Y 360.073 {94} (Axial)	85.786 %	
Na 818.326 {41} (Radial)	0.203 ppm	Infinity %
Zn 206.200 {463} (Axial)	0.004 ppm	Infinity %
Cd 228.802 {447} (Axial)	-0.001 ppm	-Infinity %
Cu 324.754 {104} (Radial)	0.000 ppm	-Infinity %

ICSAB 14J10824

Sample Type QC Analysis Date 11/26/2014 6:29:42 PM

Dilution Factor 1

	Concentration average	Recovery Percentage 1
Al 308.215 {109} (Radial)	485.673 ppm	96.982 %
B 249.678 {135} (Radial)	0.982 ppm	99.447 %
Be 313.042 {108} (Radial)	0.468 ppm	93.655 %
Ca 317.933 {106} (Radial)	440.218 ppm	88.104 %
Ca 373.690 {90} (Radial)	494.468 ppm	98.942 %

Basic sample report

12/1/2014 1:56:44 PM

	Concentration average	Recovery Percentage 1
Fe 259.940 {130} (Radial)	173.765 ppm	86.935 %
Fe 271.441 {124} (Radial)	199.440 ppm	99.519 %
K 766.490 {44} (Radial)	0.035 ppm	Infinity %
Li 670.784 {50} (Radial)	0.005 ppm	Infinity %
Mg 279.079 {121} (Radial)	510.411 ppm	102.442 %
Na 589.592 {57} (Radial)	0.041 ppm	Infinity %
Sr 421.552 {80} (Radial)	0.008 ppm	Infinity %
Ti 334.941 {101} (Radial)	0.475 ppm	Infinity %
V 292.402 {115} (Radial)	0.477 ppm	96.640 %
Co 228.616 {447} (Axial)	0.487 ppm	97.437 %
Ni 231.604 {446} (Axial)	0.955 ppm	95.340 %
Pb 220.353 {453} (Axial)	0.951 ppm	95.267 %
Sn 189.989 {478} (Axial)	0.487 ppm	Infinity %
Tl 190.856 {477} (Axial)	0.461 ppm	92.688 %
As 189.042 {478} (Axial)	0.507 ppm	102.138 %
Ba 233.527 {445} (Axial)	0.480 ppm	96.005 %
Mo 202.030 {467} (Axial)	0.467 ppm	93.555 %
S 182.034 {485} (Axial)	0.004 ppm	
Si 251.611 {134} (Axial)	1.047 ppm	Infinity %
Sb 206.833 {463} (Axial)	0.520 ppm	104.400 %
Se 196.090 {472} (Axial)	0.541 ppm	107.615 %
Ag 328.068 {103} (Axial)	1.146 ppm	114.619 %
Cr 267.716 {126} (Axial)	0.457 ppm	91.309 %
Mn 257.610 {131} (Axial)	0.457 ppm	91.375 %
Y 360.073 {94} (Radial)	96.368 %	
Y 224.306 {450} (Axial)	85.372 %	
In 230.606 {446} (Axial)	72.881 %	
Y 360.073 {94} (Axial)	85.873 %	
Na 818.326 {41} (Radial)	0.145 ppm	Infinity %
Zn 206.200 {463} (Axial)	0.872 ppm	87.066 %
Cd 228.802 {447} (Axial)	1.080 ppm	108.328 %
Cu 324.754 {104} (Radial)	0.496 ppm	99.640 %

carryover

Sample Type UNKNOWN Analysis Date 11/26/2014 6:33:58 PM

Dilution Factor 1

	Concentration average
Al 308.215 {109} (Radial)	0.117 ppm
B 249.678 {135} (Radial)	0.006 ppm
Be 313.042 {108} (Radial)	0.000 ppm
Ca 317.933 {106} (Radial)	0.267 ppm
Ca 373.690 {90} (Radial)	0.302 ppm
Fe 259.940 {130} (Radial)	0.090 ppm
Fe 271.441 {124} (Radial)	0.088 ppm
K 766.490 {44} (Radial)	0.012 ppm
Li 670.784 {50} (Radial)	0.000 ppm
Mg 279.079 {121} (Radial)	0.121 ppm
Na 589.592 {57} (Radial)	0.016 ppm
Sr 421.552 {80} (Radial)	0.001 ppm
Ti 334.941 {101} (Radial)	0.000 ppm
V 292.402 {115} (Radial)	0.004 ppm

Basic sample report

12/1/2014 1:56:44 PM

	Concentration average
Co 228.616 {447} (Axial)	0.000 ppm
Ni 231.604 {446} (Axial)	0.000 ppm
Pb 220.353 {453} (Axial)	-0.001 ppm
Sn 189.989 {478} (Axial)	0.001 ppm
Tl 190.856 {477} (Axial)	-0.003 ppm
As 189.042 {478} (Axial)	0.000 ppm
Ba 233.527 {445} (Axial)	0.001 ppm
Mo 202.030 {467} (Axial)	0.000 ppm
S 182.034 {485} (Axial)	0.057 ppm
Si 251.611 {134} (Axial)	0.020 ppm
Sb 206.833 {463} (Axial)	0.003 ppm
Se 196.090 {472} (Axial)	0.003 ppm
Ag 328.068 {103} (Axial)	0.000 ppm
Cr 267.716 {126} (Axial)	0.000 ppm
Mn 257.610 {131} (Axial)	0.001 ppm
Y 360.073 {94} (Radial)	94.083 %
Y 224.306 {450} (Axial)	100.737 %
In 230.606 {446} (Axial)	103.398 %
Y 360.073 {94} (Axial)	100.015 %
Na 818.326 {41} (Radial)	-0.084 ppm
Zn 206.200 {463} (Axial)	0.004 ppm
Cd 228.802 {447} (Axial)	0.000 ppm
Cu 324.754 {104} (Radial)	-0.002 ppm

Comprehensive sample report

11/28/2014 10:10:14 PM

LabBook 112814ICP12 B.imexp

Instrument esc icp 12
Serial number IC74DC141801

LabBook summary

Acquired by icp12 Date 11/28/2014 8:47:33 PM
Last changed by icp12 Date 11/28/2014 9:22:39 PM

Configuration iCAP 7000 ASX520
Template DAILY CALIBRATION
Evaluation eQuant
Number of samples 98
Number of results 98

Method parameters

View Direction	Radial	Axial
UV Exposure Time	15	15
UV RF Power	1150	1150
UV Neb Gas Flow	0.55	0.55
VIS Exposure Time	5	5
VIS RF Power	1150	1150
VIS Neb Gas Flow	0.55	0.55
Cool Gas Flow Rate	12	12
Aux Gas Flow Rate	0.5	0.5

Symbol	Wavelength (nm) / Order	Measure Mode	Internal Standard
Al	308.215 {109}	Radial	Y 360.073 {94} (Radial)
B	249.678 {135}	Radial	Y 360.073 {94} (Radial)
Be	313.042 {108}	Radial	Y 360.073 {94} (Radial)
Ca	317.933 {106}	Radial	Y 360.073 {94} (Radial)
Ca	373.690 {90}	Radial	Y 360.073 {94} (Radial)
Fe	259.940 {130}	Radial	Y 360.073 {94} (Radial)
Fe	271.441 {124}	Radial	Y 360.073 {94} (Radial)
K	766.490 {44}	Radial	Y 360.073 {94} (Radial)
Li	670.784 {50}	Radial	Y 360.073 {94} (Radial)
Mg	279.079 {121}	Radial	Y 360.073 {94} (Radial)
Na	589.592 {57}	Radial	Y 360.073 {94} (Radial)
Sr	421.552 {80}	Radial	Y 360.073 {94} (Radial)
Ti	334.941 {101}	Radial	Y 360.073 {94} (Radial)
V	292.402 {115}	Radial	Y 360.073 {94} (Radial)
Co	228.616 {447}	Axial	In 230.606 {446} (Axial)
Ni	231.604 {446}	Axial	In 230.606 {446} (Axial)
Pb	220.353 {453}	Axial	In 230.606 {446} (Axial)
Sn	189.989 {478}	Axial	In 230.606 {446} (Axial)
Tl	190.856 {477}	Axial	In 230.606 {446} (Axial)
As	189.042 {478}	Axial	Y 224.306 {450} (Axial)
Ba	233.527 {445}	Axial	Y 224.306 {450} (Axial)
Mo	202.030 {467}	Axial	Y 224.306 {450} (Axial)
S	182.034 {485}	Axial	Y 224.306 {450} (Axial)
Si	251.611 {134}	Axial	Y 360.073 {94} (Axial)
Sb	206.833 {463}	Axial	Y 224.306 {450} (Axial)
Se	196.090 {472}	Axial	Y 224.306 {450} (Axial)
Ag	328.068 {103}	Axial	Y 360.073 {94} (Axial)
Cr	267.716 {126}	Axial	Y 360.073 {94} (Axial)

Symbol	Wavelength (nm) / Order	Measure Mode	Internal Standard
Mn	257.610 {131}	Axial	Y 360.073 {94} (Axial)
Y	360.073 {94}	Radial	
Y	224.306 {450}	Axial	
In	230.606 {446}	Axial	
Y	360.073 {94}	Axial	
Na	818.326 {41}	Radial	Y 360.073 {94} (Radial)
Zn	206.200 {463}	Axial	Y 224.306 {450} (Axial)
Cd	228.802 {447}	Axial	Y 224.306 {450} (Axial)
Cu	324.754 {104}	Radial	Y 360.073 {94} (Radial)

Symbol	Wavelength (nm) / Order	Peak X Location	Peak Y Location	Width	Height	Center region position	Center region width
Al	308.215 {109}	115.44	173.49	13	2	6	2
B	249.678 {135}	273	281.2	13	2	7	2
Be	313.042 {108}	421.62	168.22	13	2	6	2
Ca	317.933 {106}	265.821	162.175	13	2	6	2
Ca	373.690 {90}	168.07	113.56	13	2	6	3
Fe	259.940 {130}	397.11	256.06	13	2	6	3
Fe	271.441 {124}	204.72	231.28	13	2	7	2
K	766.490 {44}	303.291	19.803	13	2	6	3
Li	670.784 {50}	38.51	29.51	13	2	6	3
Mg	279.079 {121}	362.94	217.34	13	2	7	2
Na	589.592 {57}	133.31	41.24	13	2	6	3
Sr	421.552 {80}	300.2	87.8	13	2	6	3
Ti	334.941 {101}	451.9	145.22	13	2	7	2
V	292.402 {115}	158.82	195.22	13	2	7	2
Co	228.616 {447}	137.27	26.7	13	5	6	3
Ni	231.604 {446}	436.52	16.63	13	5	7	2
Pb	220.353 {453}	289.47	60.36	13	5	7	2
Sn	189.989 {478}	418.73	244.56	13	5	7	2
Tl	190.856 {477}	365.75	237.23	13	5	7	2
As	189.042 {478}	175.7	252.27	13	5	7	2
Ba	233.527 {445}	506.17	10.3	13	5	6	2
Mo	202.030 {467}	322.49	156.38	13	5	7	2
S	182.034 {485}	212.22	318.33	13	5	6	2
Si	251.611 {134}	286.46	276.12	13	2	6	3
Sb	206.833 {463}	286.94	127.58	13	5	6	2
Se	196.090 {472}	288.85	196.82	13	5	7	2
Ag	328.068 {103}	396.22	151.61	13	2	6	3
Cr	267.716 {126}	310.19	238.93	13	2	6	3
Mn	257.610 {131}	331.372	261.321	13	2	7	2
Y	360.073 {94}	478.34	124.26	13	2	6	3
Y	224.306 {450}	192.52	43.57	13	5	6	2
In	230.606 {446}	225.61	19.46	13	5	6	3
Y	360.073 {94}	478.34	124.26	13	2	6	2
Na	818.326 {41}	55.83	14.96	13	2	7	2
Zn	206.200 {463}	139.57	131.02	13	5	7	2
Cd	228.802 {447}	176.07	26.03	13	5	6	3
Cu	324.754 {104}	371.897	154.964	13	2	7	2

Symbol	Wavelength (nm) / Order	Left Bkg	Location	Width	Right Bkg	Location	Width
Al	308.215 {109}	Fixed	1	1	None		
B	249.678 {135}	None			Fixed	13	1
Be	313.042 {108}	Fixed	1	1	Fixed	13	1
Ca	317.933 {106}	Fixed	1	1	Fixed	13	1
Ca	373.690 {90}	Fixed	1	1	Fixed	13	1
Fe	259.940 {130}	Fixed	1	1	Fixed	13	1
Fe	271.441 {124}	Fixed	1	1	Fixed	13	1
K	766.490 {44}	Fixed	1	1	Fixed	13	1
Li	670.784 {50}	Fixed	1	1	Fixed	13	1
Mg	279.079 {121}	Fixed	1	1	Fixed	13	1
Na	589.592 {57}	Fixed	1	1	Fixed	13	1
Sr	421.552 {80}	Fixed	1	1	None		
Ti	334.941 {101}	None			Fixed	13	1
V	292.402 {115}	Fixed	1	1	None		
Co	228.616 {447}	Fixed	1	1	None		
Ni	231.604 {446}	Fixed	1	1	Fixed	13	1
Pb	220.353 {453}	Fixed	1	1	Fixed	13	1
Sn	189.989 {478}	Fixed	1	1	Fixed	13	1
Tl	190.856 {477}	Fixed	3	1	None		
As	189.042 {478}	None			Fixed	13	1
Ba	233.527 {445}	None			Fixed	13	1
Mo	202.030 {467}	Fixed	1	1	Fixed	13	1
S	182.034 {485}	Fixed	1	1	Fixed	13	1
Si	251.611 {134}	Fixed	1	1	None		
Sb	206.833 {463}	Fixed	1	1	None		
Se	196.090 {472}	Fixed	1	1	None		
Ag	328.068 {103}	Fixed	3	1	None		
Cr	267.716 {126}	None			Fixed	13	1
Mn	257.610 {131}	None			Fixed	13	1
Y	360.073 {94}	Fixed	1	1	Fixed	13	1
Y	224.306 {450}	Fixed	1	1	Fixed	13	1
In	230.606 {446}	Fixed	1	1	None		
Y	360.073 {94}	Fixed	1	1	Fixed	13	1
Na	818.326 {41}	Fixed	1	1	Fixed	13	1
Zn	206.200 {463}	Fixed	1	1	Fixed	13	1
Cd	228.802 {447}	Fixed	1	1	Fixed	13	1
Cu	324.754 {104}	None			Fixed	13	1

Calibration details

	STD1 14G16199	STD7 14J27631	STD2 14J08649
Al 308.215 {109} (Radial)	0.100 ppm		
B 249.678 {135} (Radial)	0.200 ppm	0.500 ppm	1.000 ppm
Be 313.042 {108} (Radial)	0.002 ppm	0.500 ppm	1.000 ppm
Ca 317.933 {106} (Radial)	0.500 ppm	0.500 ppm	1.000 ppm
Ca 373.690 {90} (Radial)			
Fe 259.940 {130} (Radial)	0.100 ppm		1.000 ppm
Fe 271.441 {124} (Radial)			
K 766.490 {44} (Radial)	0.500 ppm		
Li 670.784 {50} (Radial)	0.015 ppm	0.500 ppm	1.000 ppm
Mg 279.079 {121} (Radial)	0.100 ppm		
Na 589.592 {57} (Radial)	0.500 ppm	0.500 ppm	1.000 ppm
Sr 421.552 {80} (Radial)	0.010 ppm	0.500 ppm	1.000 ppm
Ti 334.941 {101} (Radial)	0.010 ppm	0.500 ppm	1.000 ppm
V 292.402 {115} (Radial)	0.010 ppm	0.500 ppm	1.000 ppm
Co 228.616 {447} (Axial)	0.010 ppm	0.500 ppm	1.000 ppm
Ni 231.604 {446} (Axial)	0.020 ppm	0.500 ppm	1.000 ppm
Pb 220.353 {453} (Axial)	0.005 ppm	0.500 ppm	1.000 ppm
Sn 189.989 {478} (Axial)	0.020 ppm	0.500 ppm	1.000 ppm
Tl 190.856 {477} (Axial)	0.020 ppm	0.500 ppm	1.000 ppm
As 189.042 {478} (Axial)	0.010 ppm	0.500 ppm	1.000 ppm
Ba 233.527 {445} (Axial)	0.005 ppm		1.000 ppm
Mo 202.030 {467} (Axial)	0.005 ppm		1.000 ppm
S 182.034 {485} (Axial)	5.000 ppm		1.000 ppm
Si 251.611 {134} (Axial)	0.200 ppm	0.500 ppm	1.000 ppm
Sb 206.833 {463} (Axial)	0.020 ppm	0.500 ppm	1.000 ppm
Se 196.090 {472} (Axial)	0.020 ppm	0.500 ppm	1.000 ppm
Ag 328.068 {103} (Axial)	0.010 ppm	0.500 ppm	1.000 ppm
Cr 267.716 {126} (Axial)	0.010 ppm	0.500 ppm	1.000 ppm
Mn 257.610 {131} (Axial)	0.010 ppm	0.500 ppm	1.000 ppm
Na 818.326 {41} (Radial)			
Zn 206.200 {463} (Axial)	0.030 ppm	0.500 ppm	1.000 ppm
Cd 228.802 {447} (Axial)	0.005 ppm	0.500 ppm	1.000 ppm
Cu 324.754 {104} (Radial)	0.020 ppm	0.500 ppm	1.000 ppm

	STD3 14J06521	STD4 14J27630	STD5 14J08650
Al 308.215 {109} (Radial)		10.000 ppm	250.000 ppm
B 249.678 {135} (Radial)	2.000 ppm		
Be 313.042 {108} (Radial)	2.000 ppm		
Ca 317.933 {106} (Radial)	2.000 ppm	10.000 ppm	
Ca 373.690 {90} (Radial)		10.000 ppm	250.000 ppm
Fe 259.940 {130} (Radial)	2.000 ppm	10.000 ppm	
Fe 271.441 {124} (Radial)		10.000 ppm	100.000 ppm
K 766.490 {44} (Radial)		10.000 ppm	50.000 ppm
Li 670.784 {50} (Radial)	2.000 ppm		
Mg 279.079 {121} (Radial)		10.000 ppm	250.000 ppm
Na 589.592 {57} (Radial)	2.000 ppm	10.000 ppm	
Sr 421.552 {80} (Radial)	2.000 ppm		
Ti 334.941 {101} (Radial)	2.000 ppm		
V 292.402 {115} (Radial)	2.000 ppm		
Co 228.616 {447} (Axial)	2.000 ppm		
Ni 231.604 {446} (Axial)	2.000 ppm		
Pb 220.353 {453} (Axial)			
Sn 189.989 {478} (Axial)	2.000 ppm		
Tl 190.856 {477} (Axial)			

	STD3 14J06521	STD4 14J27630	STD5 14J08650
As 189.042 {478} (Axial)	2.000 ppm		
Ba 233.527 {445} (Axial)	2.000 ppm	10.000 ppm	
Mo 202.030 {467} (Axial)	2.000 ppm		
S 182.034 {485} (Axial)	2.000 ppm	10.000 ppm	50.000 ppm
Si 251.611 {134} (Axial)	2.000 ppm		
Sb 206.833 {463} (Axial)			
Se 196.090 {472} (Axial)			
Ag 328.068 {103} (Axial)			
Cr 267.716 {126} (Axial)	2.000 ppm		
Mn 257.610 {131} (Axial)	2.000 ppm		
Na 818.326 {41} (Radial)		10.000 ppm	250.000 ppm
Zn 206.200 {463} (Axial)	2.000 ppm		
Cd 228.802 {447} (Axial)			
Cu 324.754 {104} (Radial)	2.000 ppm		

	STD6 14I24985	STD1 14G16199	STD7 14J27631
Al 308.215 {109} (Radial)	500.000 ppm	0.100 ppm	
B 249.678 {135} (Radial)		0.200 ppm	0.500 ppm
Be 313.042 {108} (Radial)		0.002 ppm	0.500 ppm
Ca 317.933 {106} (Radial)		0.500 ppm	0.500 ppm
Ca 373.690 {90} (Radial)	500.000 ppm		
Fe 259.940 {130} (Radial)		0.100 ppm	
Fe 271.441 {124} (Radial)	200.000 ppm		
K 766.490 {44} (Radial)	100.000 ppm	0.500 ppm	
Li 670.784 {50} (Radial)		0.015 ppm	0.500 ppm
Mg 279.079 {121} (Radial)	500.000 ppm	0.100 ppm	
Na 589.592 {57} (Radial)		0.500 ppm	0.500 ppm
Sr 421.552 {80} (Radial)		0.010 ppm	0.500 ppm
Ti 334.941 {101} (Radial)		0.010 ppm	0.500 ppm
V 292.402 {115} (Radial)		0.010 ppm	0.500 ppm
Co 228.616 {447} (Axial)		0.010 ppm	0.500 ppm
Ni 231.604 {446} (Axial)		0.020 ppm	0.500 ppm
Pb 220.353 {453} (Axial)		0.005 ppm	0.500 ppm
Sn 189.989 {478} (Axial)		0.020 ppm	0.500 ppm
Tl 190.856 {477} (Axial)		0.020 ppm	0.500 ppm
As 189.042 {478} (Axial)		0.010 ppm	0.500 ppm
Ba 233.527 {445} (Axial)		0.005 ppm	
Mo 202.030 {467} (Axial)		0.005 ppm	
S 182.034 {485} (Axial)	100.000 ppm	5.000 ppm	
Si 251.611 {134} (Axial)		0.200 ppm	0.500 ppm
Sb 206.833 {463} (Axial)		0.020 ppm	0.500 ppm
Se 196.090 {472} (Axial)		0.020 ppm	0.500 ppm
Ag 328.068 {103} (Axial)		0.010 ppm	0.500 ppm
Cr 267.716 {126} (Axial)		0.010 ppm	0.500 ppm
Mn 257.610 {131} (Axial)		0.010 ppm	0.500 ppm
Na 818.326 {41} (Radial)	500.000 ppm		
Zn 206.200 {463} (Axial)		0.030 ppm	0.500 ppm
Cd 228.802 {447} (Axial)		0.005 ppm	0.500 ppm
Cu 324.754 {104} (Radial)		0.020 ppm	0.500 ppm

	STD2 14J08649	STD3 14J06521	STD4 14J27630
Al 308.215 {109} (Radial)			10.000 ppm
B 249.678 {135} (Radial)	1.000 ppm	2.000 ppm	
Be 313.042 {108} (Radial)	1.000 ppm	2.000 ppm	
Ca 317.933 {106} (Radial)	1.000 ppm	2.000 ppm	10.000 ppm

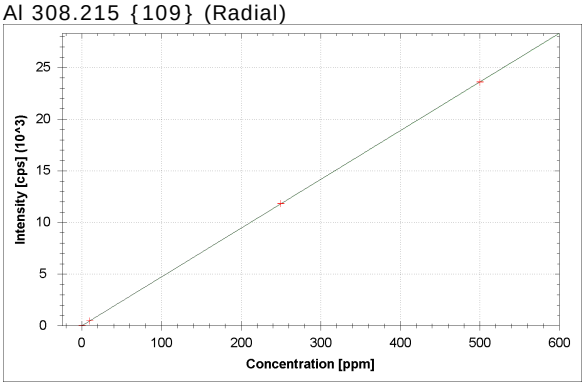
	STD2 14J08649	STD3 14J06521	STD4 14J27630
Ca 373.690 {90} (Radial)			10.000 ppm
Fe 259.940 {130} (Radial)	1.000 ppm	2.000 ppm	10.000 ppm
Fe 271.441 {124} (Radial)			10.000 ppm
K 766.490 {44} (Radial)			10.000 ppm
Li 670.784 {50} (Radial)	1.000 ppm	2.000 ppm	
Mg 279.079 {121} (Radial)			10.000 ppm
Na 589.592 {57} (Radial)	1.000 ppm	2.000 ppm	10.000 ppm
Sr 421.552 {80} (Radial)	1.000 ppm	2.000 ppm	
Ti 334.941 {101} (Radial)	1.000 ppm	2.000 ppm	
V 292.402 {115} (Radial)	1.000 ppm	2.000 ppm	
Co 228.616 {447} (Axial)	1.000 ppm	2.000 ppm	
Ni 231.604 {446} (Axial)	1.000 ppm	2.000 ppm	
Pb 220.353 {453} (Axial)	1.000 ppm		
Sn 189.989 {478} (Axial)	1.000 ppm	2.000 ppm	
Tl 190.856 {477} (Axial)	1.000 ppm		
As 189.042 {478} (Axial)	1.000 ppm	2.000 ppm	
Ba 233.527 {445} (Axial)	1.000 ppm	2.000 ppm	10.000 ppm
Mo 202.030 {467} (Axial)	1.000 ppm	2.000 ppm	
S 182.034 {485} (Axial)	1.000 ppm	2.000 ppm	10.000 ppm
Si 251.611 {134} (Axial)	1.000 ppm	2.000 ppm	
Sb 206.833 {463} (Axial)	1.000 ppm		
Se 196.090 {472} (Axial)	1.000 ppm		
Ag 328.068 {103} (Axial)	1.000 ppm		
Cr 267.716 {126} (Axial)	1.000 ppm	2.000 ppm	
Mn 257.610 {131} (Axial)	1.000 ppm	2.000 ppm	
Na 818.326 {41} (Radial)			10.000 ppm
Zn 206.200 {463} (Axial)	1.000 ppm	2.000 ppm	
Cd 228.802 {447} (Axial)	1.000 ppm		
Cu 324.754 {104} (Radial)	1.000 ppm	2.000 ppm	

	STD5 14J08650	STD6 14I24985
Al 308.215 {109} (Radial)	250.000 ppm	500.000 ppm
B 249.678 {135} (Radial)		
Be 313.042 {108} (Radial)		
Ca 317.933 {106} (Radial)		
Ca 373.690 {90} (Radial)	250.000 ppm	500.000 ppm
Fe 259.940 {130} (Radial)		
Fe 271.441 {124} (Radial)	100.000 ppm	200.000 ppm
K 766.490 {44} (Radial)	50.000 ppm	100.000 ppm
Li 670.784 {50} (Radial)		
Mg 279.079 {121} (Radial)	250.000 ppm	500.000 ppm
Na 589.592 {57} (Radial)		
Sr 421.552 {80} (Radial)		
Ti 334.941 {101} (Radial)		
V 292.402 {115} (Radial)		
Co 228.616 {447} (Axial)		
Ni 231.604 {446} (Axial)		
Pb 220.353 {453} (Axial)		
Sn 189.989 {478} (Axial)		
Tl 190.856 {477} (Axial)		
As 189.042 {478} (Axial)		
Ba 233.527 {445} (Axial)		
Mo 202.030 {467} (Axial)		
S 182.034 {485} (Axial)	50.000 ppm	100.000 ppm
Si 251.611 {134} (Axial)		

	STD5 14J08650	STD6 14I24985
Sb 206.833 {463} (Axial)		
Se 196.090 {472} (Axial)		
Ag 328.068 {103} (Axial)		
Cr 267.716 {126} (Axial)		
Mn 257.610 {131} (Axial)		
Na 818.326 {41} (Radial)	250.000 ppm	500.000 ppm
Zn 206.200 {463} (Axial)		
Cd 228.802 {447} (Axial)		
Cu 324.754 {104} (Radial)		

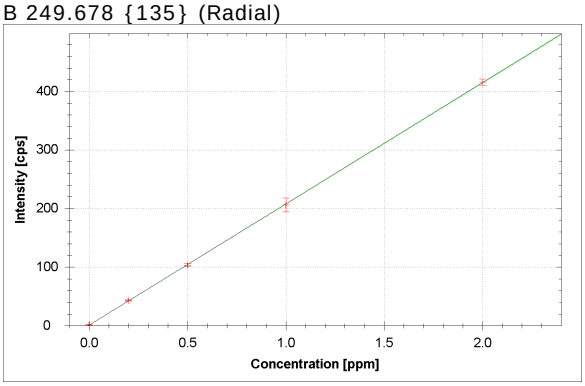
Symbol	Wavelength (nm) / Order	Fit Type	Weighting	Forcing
Al	308.215 {109}	Linear	None	Blank
B	249.678 {135}	Linear	None	Blank
Be	313.042 {108}	Linear	None	Blank
Ca	317.933 {106}	Linear	None	Blank
Ca	373.690 {90}	Linear	None	Blank
Fe	259.940 {130}	Linear	None	Blank
Fe	271.441 {124}	Linear	None	Blank
K	766.490 {44}	Linear	None	Blank
Li	670.784 {50}	Linear	None	Blank
Mg	279.079 {121}	Linear	None	Blank
Na	589.592 {57}	Linear	None	Blank
Sr	421.552 {80}	Linear	None	Blank
Ti	334.941 {101}	Linear	None	Blank
V	292.402 {115}	Linear	None	Blank
Co	228.616 {447}	Linear	None	Blank
Ni	231.604 {446}	Linear	None	Blank
Pb	220.353 {453}	Linear	None	Blank
Sn	189.989 {478}	Linear	None	Blank
Tl	190.856 {477}	Linear	None	Blank
As	189.042 {478}	Linear	None	Blank
Ba	233.527 {445}	Linear	None	Blank
Mo	202.030 {467}	Linear	None	Blank
S	182.034 {485}	Linear	None	Blank
Si	251.611 {134}	Linear	None	Blank
Sb	206.833 {463}	Linear	None	Blank
Se	196.090 {472}	Linear	None	Blank
Ag	328.068 {103}	Linear	None	Blank
Cr	267.716 {126}	Linear	None	Blank
Mn	257.610 {131}	Linear	None	Blank
Y	360.073 {94}	Linear	None	Blank
Y	224.306 {450}	Linear	None	Blank
In	230.606 {446}	Linear	None	Blank
Y	360.073 {94}	Linear	None	Blank
Na	818.326 {41}	Linear	None	Blank
Zn	206.200 {463}	Linear	None	Blank
Cd	228.802 {447}	Linear	None	Blank
Cu	324.754 {104}	Linear	None	Blank

Al 308.215 {109} (Radial)



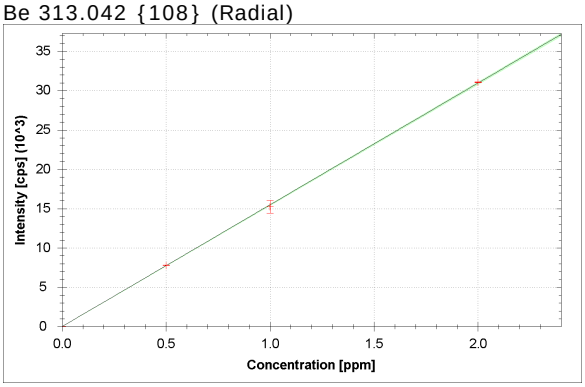
f(x) = 47.1744*x + 5.1485
R^2 = 1.0000
BEC = 0.109 ppm
LoD = 0.0946 ppm

B 249.678 {135} (Radial)



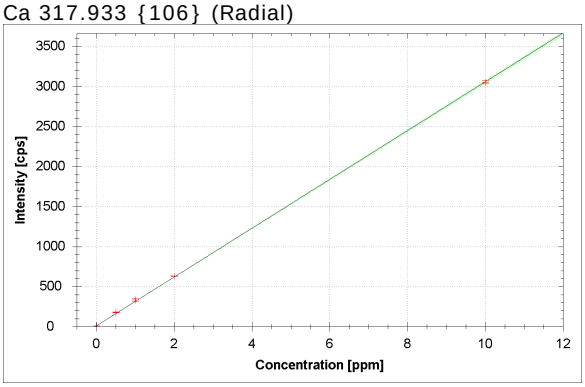
f(x) = 206.8999*x + 0.9135
R^2 = 0.9999
BEC = 0.004 ppm
LoD = 0.0193 ppm

Be 313.042 {108} (Radial)



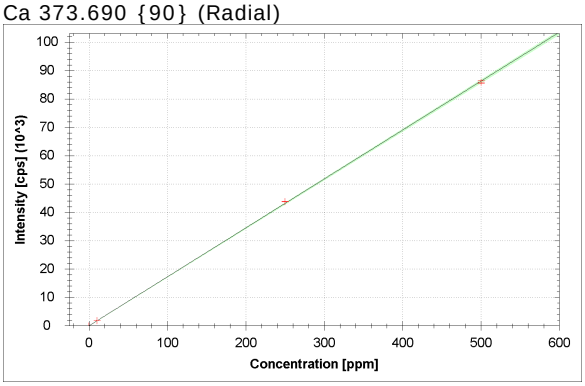
f(x) = 15481.6041*x + -0.9627
R^2 = 0.9999
BEC = 0.000 ppm
LoD = 0.0003 ppm

Ca 317.933 {106} (Radial)



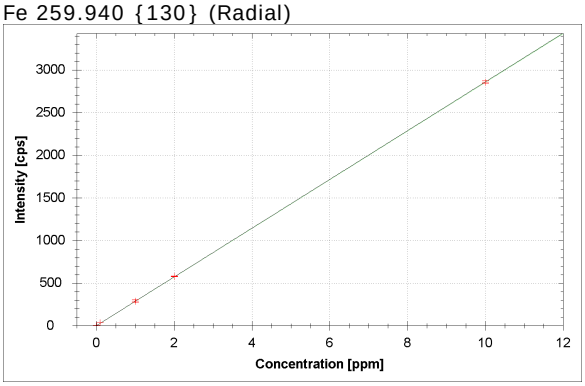
f(x) = 304.9914*x + 8.8400
R^2 = 0.9999
BEC = 0.029 ppm
LoD = 0.0074 ppm

Ca 373.690 {90} (Radial)



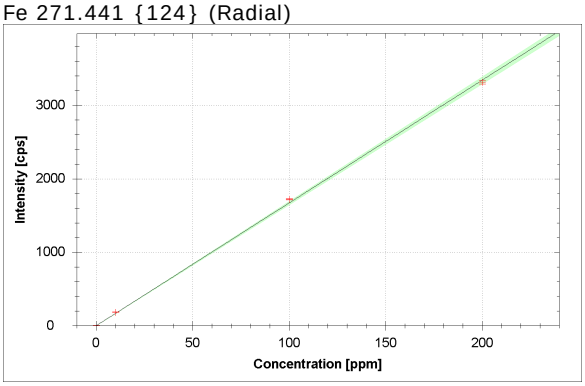
f(x) = 172.4483*x + 10.1694
R^2 = 0.9999
BEC = 0.059 ppm
LoD = 0.0454 ppm

Fe 259.940 {130} (Radial)



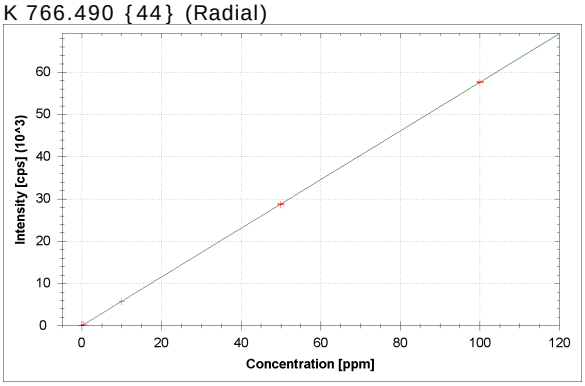
f(x) = 285.8358*x + 0.7451
R^2 = 1.0000
BEC = 0.003 ppm
LoD = 0.0092 ppm

Fe 271.441 {124} (Radial)



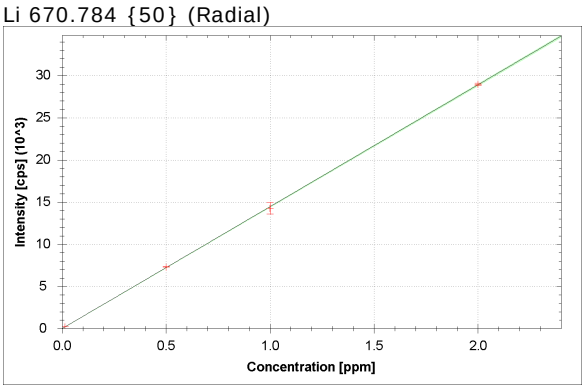
f(x) = 16.6994*x + 0.9177
R^2 = 0.9995
BEC = 0.055 ppm
LoD = 0.1614 ppm

K 766.490 {44} (Radial)



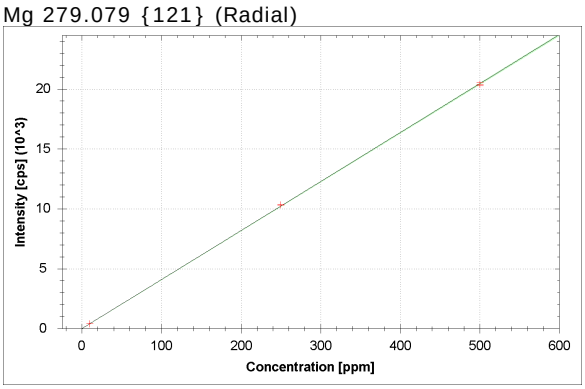
f(x) = 575.6655*x + 20.5765
R^2 = 1.0000
BEC = 0.036 ppm
LoD = 0.0377 ppm

Li 670.784 {50} (Radial)



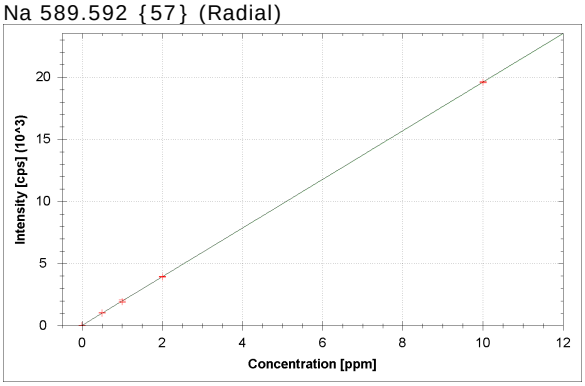
f(x) = 14461.0307*x + -10.1641
R^2 = 0.9999
BEC = -0.001 ppm
LoD = 0.0009 ppm

Mg 279.079 {121} (Radial)



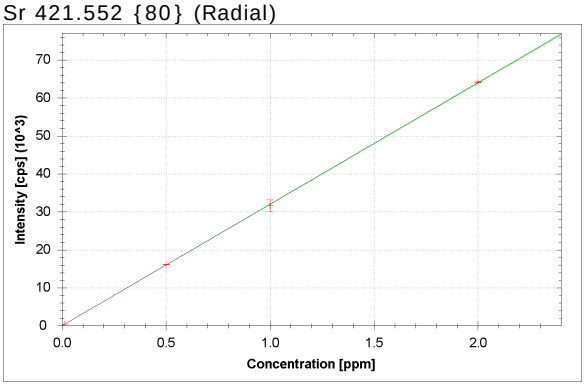
f(x) = 40.8853*x + 0.8809
R^2 = 1.0000
BEC = 0.022 ppm
LoD = 0.0662 ppm

Na 589.592 {57} (Radial)



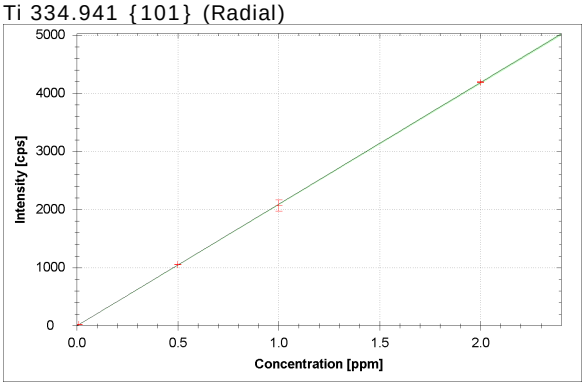
f(x) = 1957.6731*x + 24.7426
R^2 = 1.0000
BEC = 0.013 ppm
LoD = 0.0096 ppm

Sr 421.552 {80} (Radial)



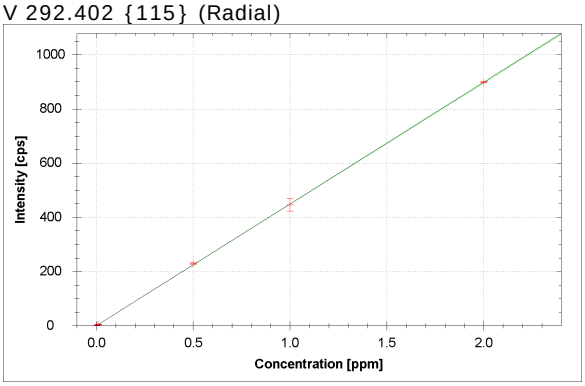
f(x) = 31990.2502*x + -0.8514
R^2 = 0.9999
BEC = 0.000 ppm
LoD = 0.0003 ppm

Ti 334.941 {101} (Radial)



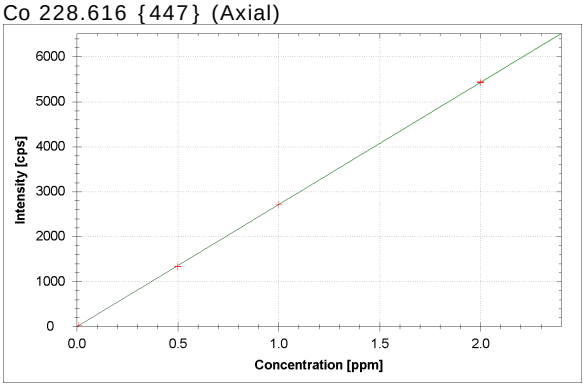
f(x) = 2091.7754*x + -1.0950
R^2 = 0.9999
BEC = -0.001 ppm
LoD = 0.0020 ppm

V 292.402 {115} (Radial)



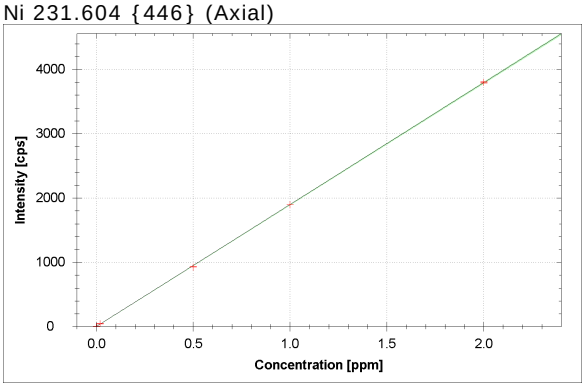
f(x) = 448.8004*x + 0.1641
R^2 = 0.9999
BEC = 0.000 ppm
LoD = 0.0066 ppm

Co 228.616 {447} (Axial)



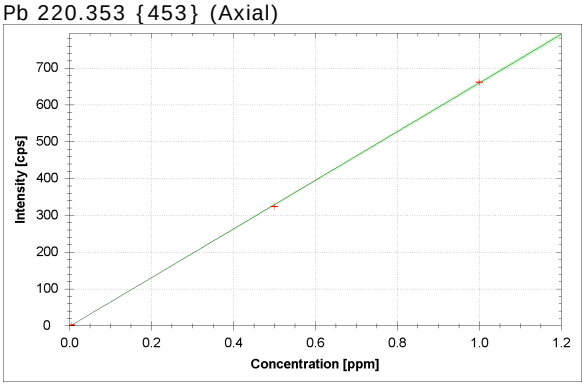
f(x) = 2715.9599*x + -1.8512
R^2 = 1.0000
BEC = -0.001 ppm
LoD = 0.0003 ppm

Ni 231.604 {446} (Axial)



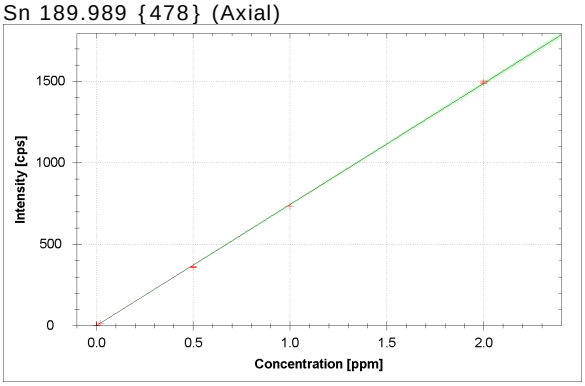
f(x) = 1896.4879*x + 0.9735
R^2 = 1.0000
BEC = 0.001 ppm
LoD = 0.0008 ppm

Pb 220.353 {453} (Axial)



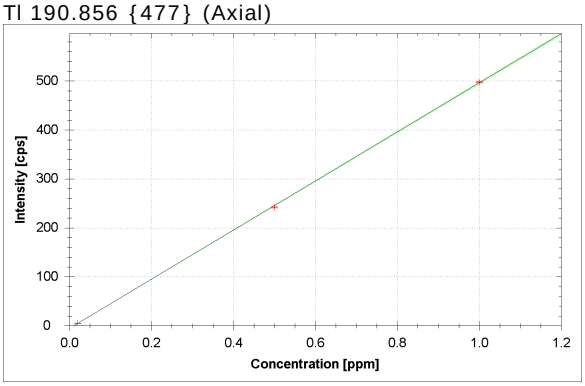
f(x) = 660.8469*x + -1.7370
R^2 = 0.9999
BEC = -0.003 ppm
LoD = 0.0023 ppm

Sn 189.989 {478} (Axial)



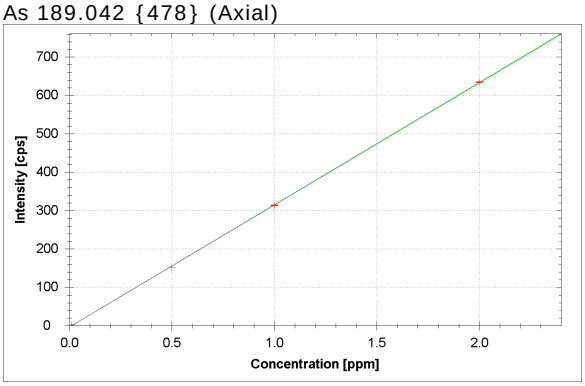
f(x) = 743.3123*x + 0.6924
R^2 = 0.9998
BEC = 0.001 ppm
LoD = 0.0001 ppm

Tl 190.856 {477} (Axial)



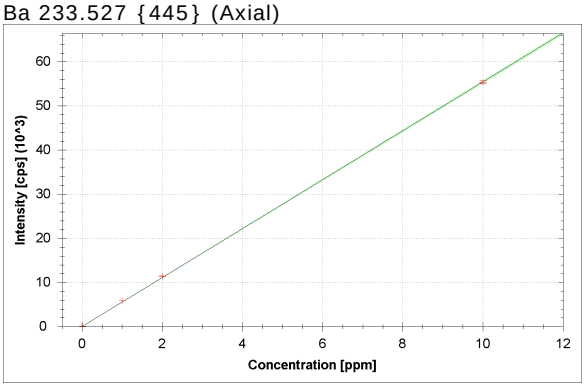
f(x) = 501.3517*x + -5.2135
R^2 = 0.9999
BEC = -0.010 ppm
LoD = 0.0025 ppm

As 189.042 {478} (Axial)



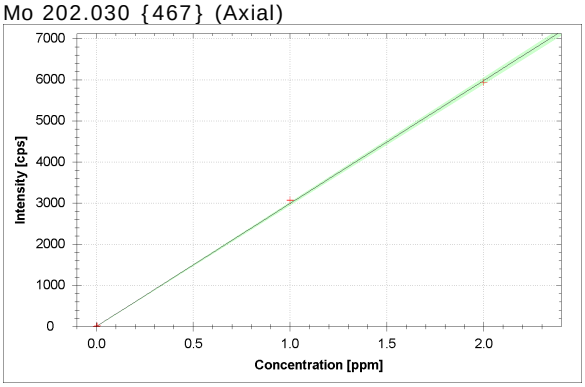
f(x) = 318.1911*x + -3.4409
R^2 = 0.9999
BEC = -0.011 ppm
LoD = 0.0009 ppm

Ba 233.527 {445} (Axial)



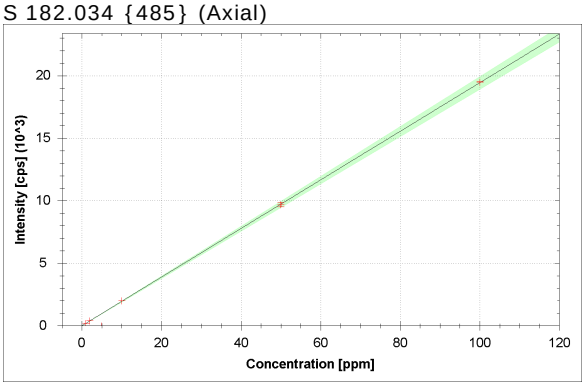
f(x) = 5545.6579*x + 1.5997
R^2 = 0.9999
BEC = 0.000 ppm
LoD = 0.0001 ppm

Mo 202.030 {467} (Axial)



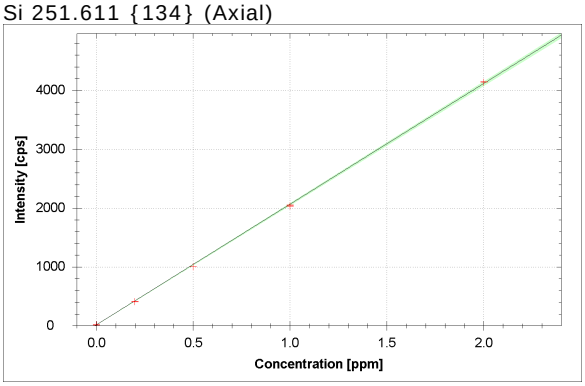
f(x) = 2987.7706*x + 2.4417
R^2 = 0.9997
BEC = 0.001 ppm
LoD = 0.0004 ppm

S 182.034 {485} (Axial)



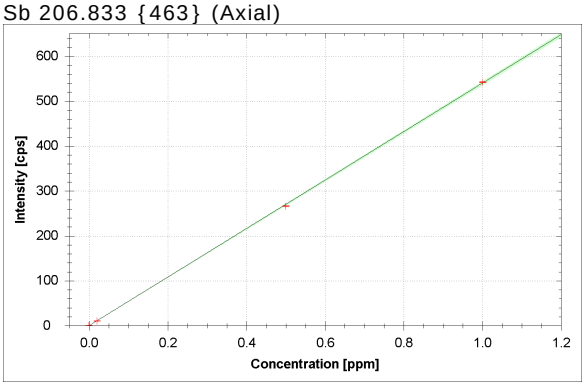
f(x) = 194.2554*x + 3.3728
R^2 = 0.9971
BEC = 0.017 ppm
LoD = 0.0060 ppm

Si 251.611 {134} (Axial)



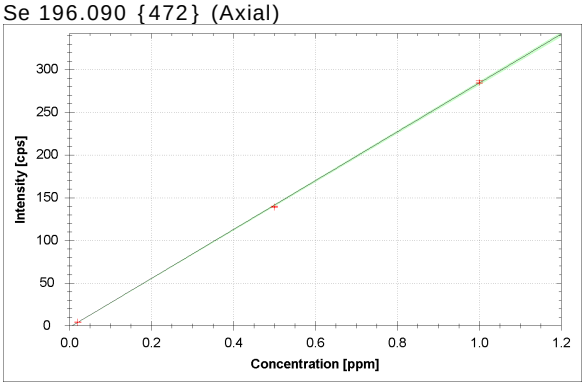
f(x) = 2051.0403*x + 15.5023
R^2 = 0.9997
BEC = 0.008 ppm
LoD = 0.0047 ppm

Sb 206.833 {463} (Axial)



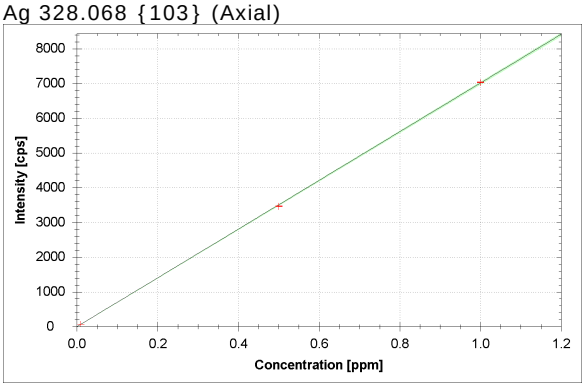
f(x) = 539.7995*x + 0.3489
R^2 = 0.9999
BEC = 0.001 ppm
LoD = 0.0019 ppm

Se 196.090 {472} (Axial)



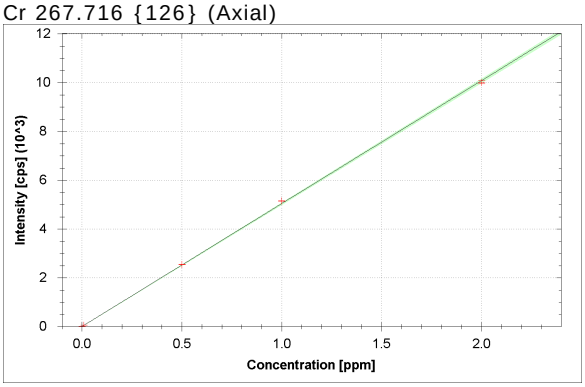
f(x) = 286.0601*x + -1.8175
R^2 = 0.9999
BEC = -0.006 ppm
LoD = 0.0078 ppm

Ag 328.068 {103} (Axial)



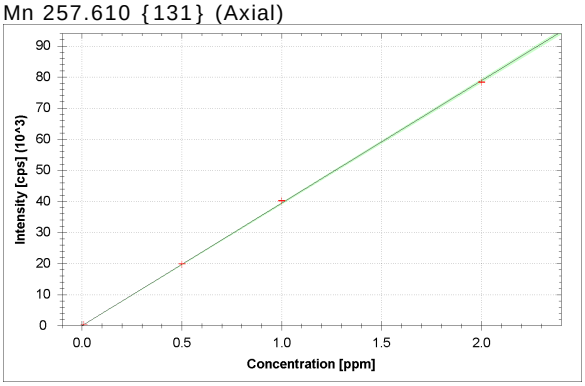
f(x) = 7012.8335*x + -0.9411
R^2 = 0.9999
BEC = 0.000 ppm
LoD = 0.0012 ppm

Cr 267.716 {126} (Axial)



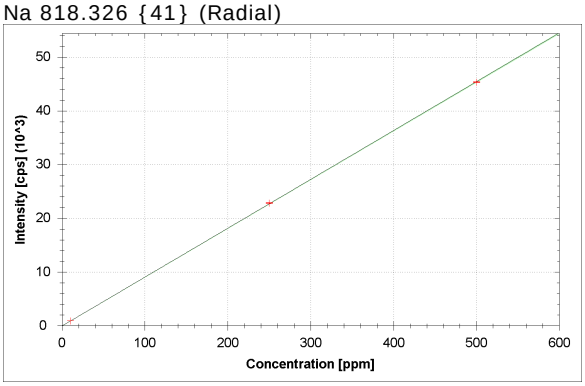
f(x) = 5038.1649*x + 2.5166
R^2 = 0.9998
BEC = 0.000 ppm
LoD = 0.0007 ppm

Mn 257.610 {131} (Axial)



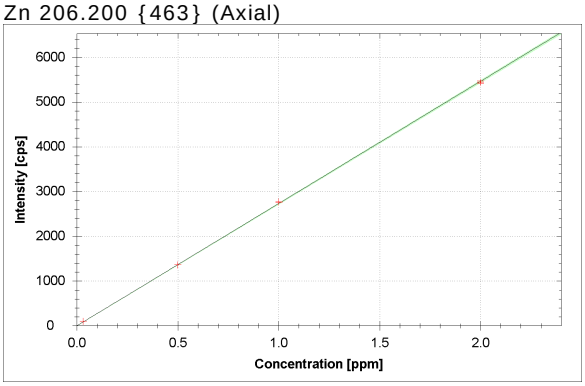
f(x) = 39395.9806*x + 5.3610
R^2 = 0.9998
BEC = 0.000 ppm
LoD = 0.0001 ppm

Na 818.326 {41} (Radial)



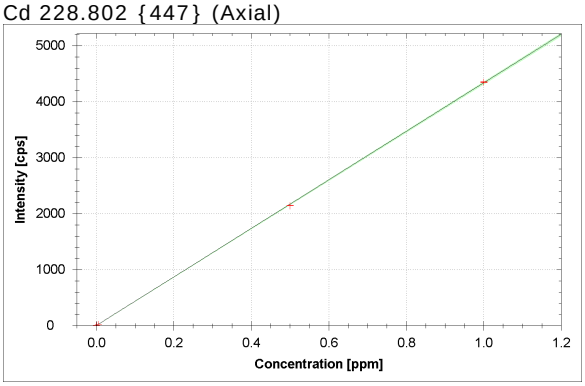
f(x) = 90.9208*x + -46.6802
R^2 = 1.0000
BEC = -0.513 ppm
LoD = 0.0897 ppm

Zn 206.200 {463} (Axial)



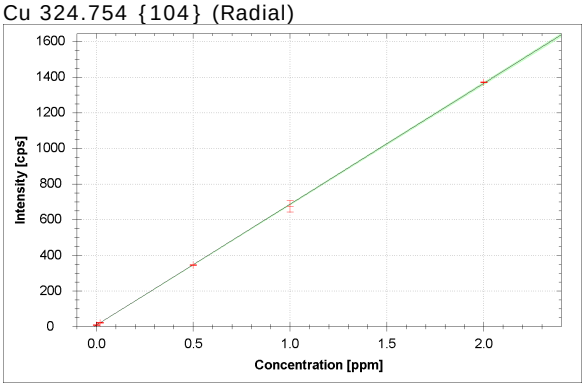
f(x) = 2731.9727*x + -0.8922
R^2 = 0.9999
BEC = 0.000 ppm
LoD = 0.0001 ppm

Cd 228.802 {447} (Axial)



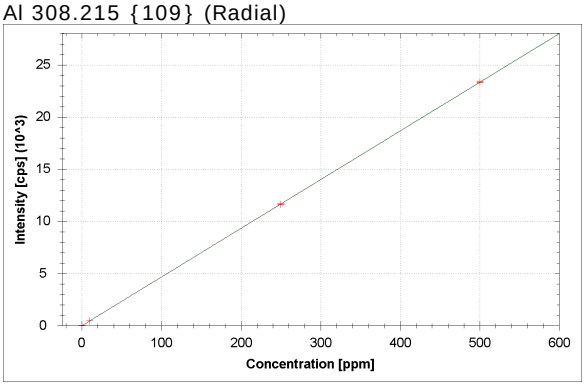
f(x) = 4333.6625*x + 4.0177
R^2 = 0.9999
BEC = 0.001 ppm
LoD = 0.0003 ppm

Cu 324.754 {104} (Radial)



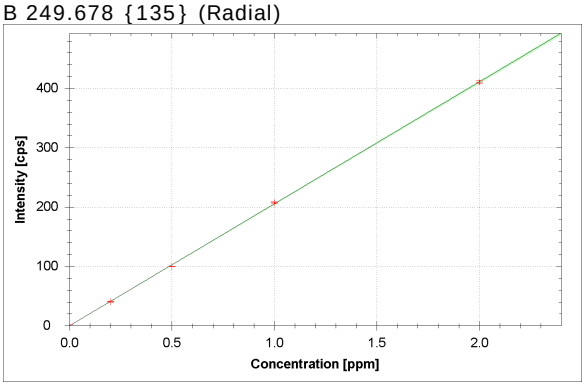
f(x) = 678.2641*x + 7.8847
R^2 = 0.9999
BEC = 0.012 ppm
LoD = 0.0061 ppm

Al 308.215 {109} (Radial)



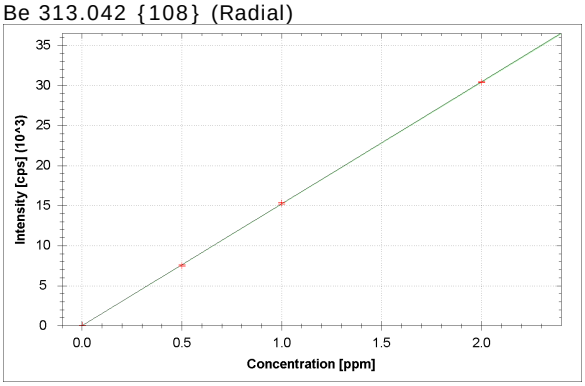
f(x) = 46.6466*x + 4.8311
R^2 = 1.0000
BEC = 0.104 ppm
LoD = 0.0346 ppm

B 249.678 {135} (Radial)



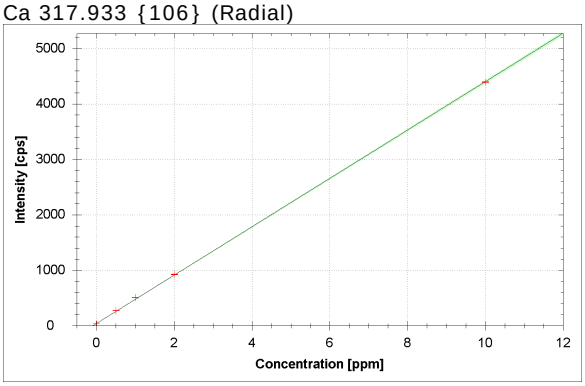
f(x) = 205.3987*x + -0.0388
R^2 = 0.9999
BEC = 0.000 ppm
LoD = 0.0309 ppm

Be 313.042 {108} (Radial)



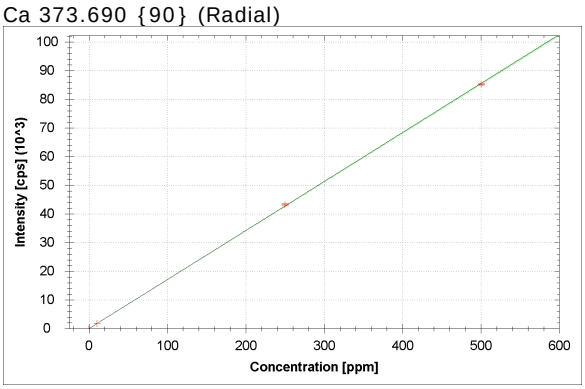
f(x) = 15220.8087*x + 0.0666
R^2 = 1.0000
BEC = 0.000 ppm
LoD = 0.0002 ppm

Ca 317.933 {106} (Radial)



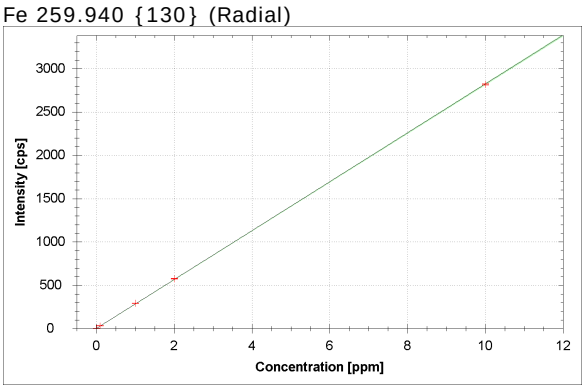
f(x) = 436.1459*x + 39.2544
R^2 = 0.9999
BEC = 0.090 ppm
LoD = 0.0109 ppm

Ca 373.690 {90} (Radial)



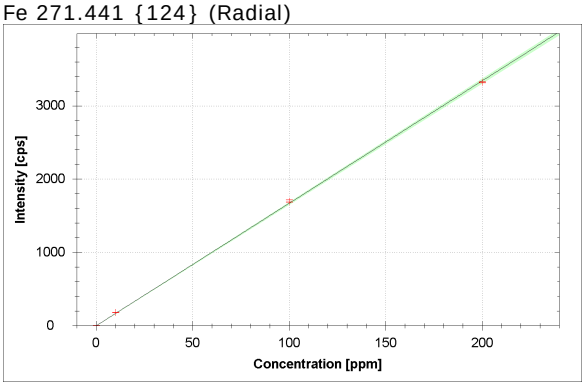
f(x) = 170.9338*x + 10.3603
R^2 = 0.9999
BEC = 0.061 ppm
LoD = 0.0270 ppm

Fe 259.940 {130} (Radial)



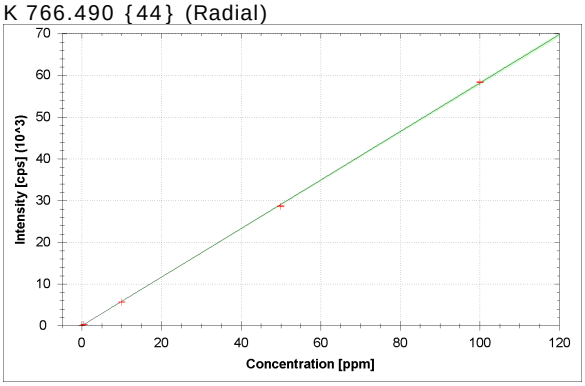
f(x) = 282.1518*x + 1.2923
R^2 = 1.0000
BEC = 0.005 ppm
LoD = 0.0087 ppm

Fe 271.441 {124} (Radial)



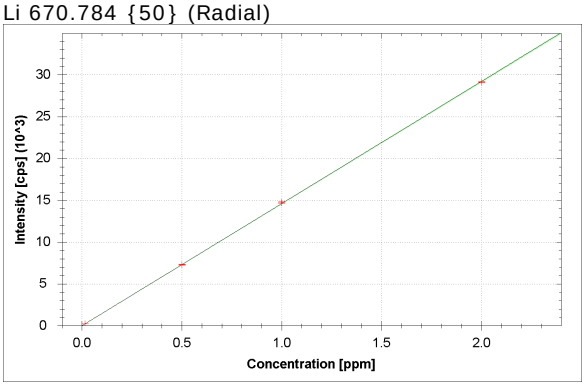
f(x) = 16.6937*x + 0.3022
R^2 = 0.9998
BEC = 0.018 ppm
LoD = 0.2685 ppm

K 766.490 {44} (Radial)



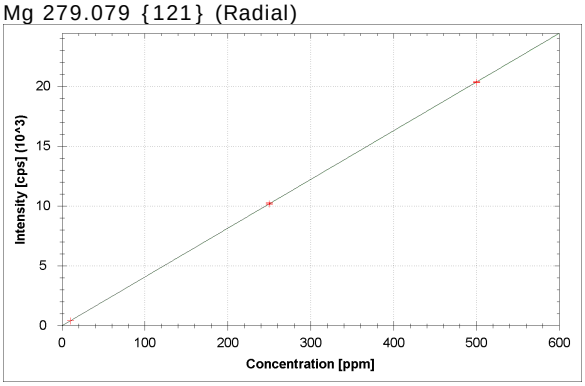
f(x) = 581.3247*x + 20.7290
R^2 = 0.9999
BEC = 0.036 ppm
LoD = 0.0333 ppm

Li 670.784 {50} (Radial)



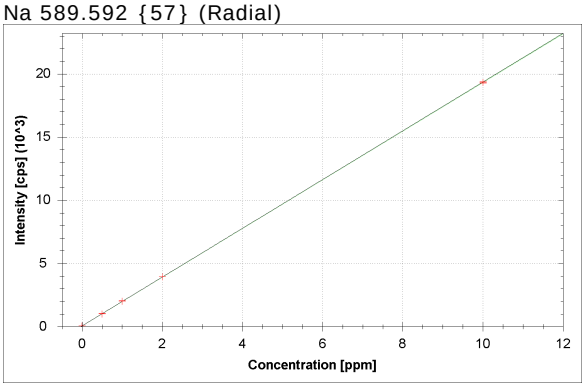
f(x) = 14590.9162*x + 0.3778
R^2 = 1.0000
BEC = 0.000 ppm
LoD = 0.0005 ppm

Mg 279.079 {121} (Radial)



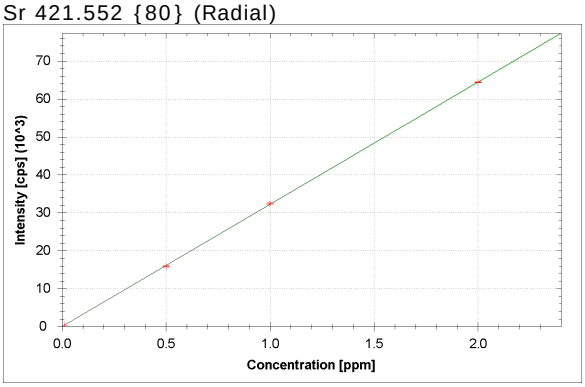
f(x) = 40.7116*x + -0.1325
R^2 = 1.0000
BEC = -0.003 ppm
LoD = 0.0455 ppm

Na 589.592 {57} (Radial)



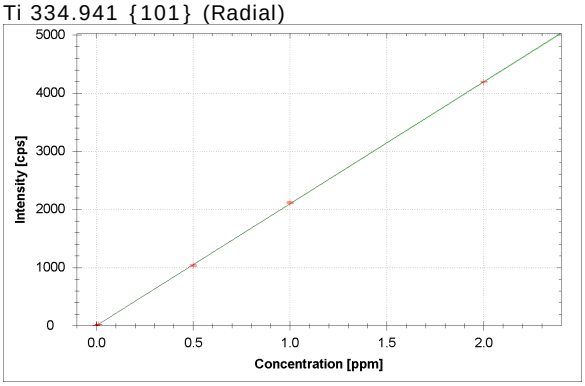
f(x) = 1929.2682*x + 51.4368
R^2 = 1.0000
BEC = 0.027 ppm
LoD = 0.0054 ppm

Sr 421.552 {80} (Radial)



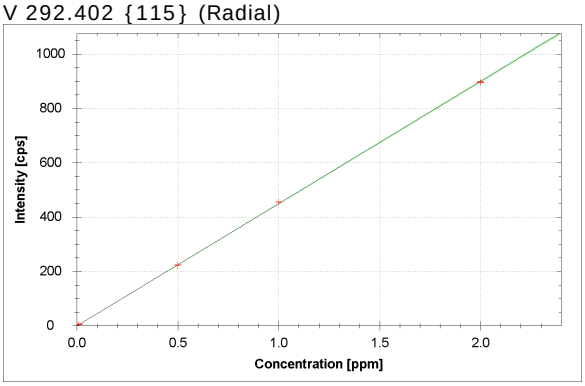
f(x) = 32232.8586*x + -0.9524
R^2 = 1.0000
BEC = 0.000 ppm
LoD = 0.0005 ppm

Ti 334.941 {101} (Radial)



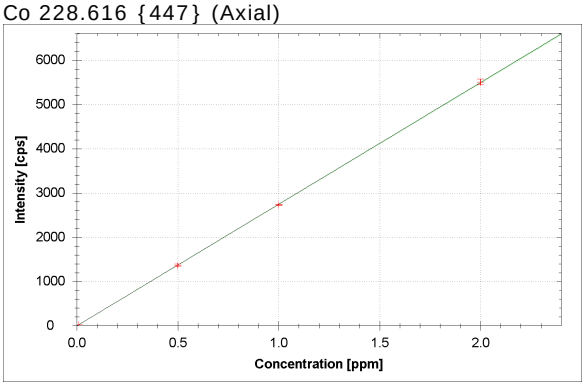
f(x) = 2095.7941*x + 1.5095
R^2 = 1.0000
BEC = 0.001 ppm
LoD = 0.0043 ppm

V 292.402 {115} (Radial)



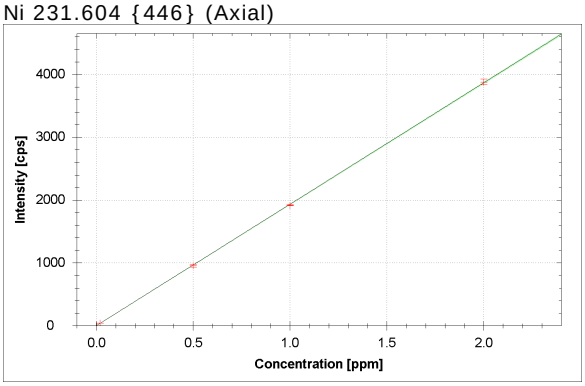
f(x) = 450.0558*x + -0.6489
R^2 = 0.9999
BEC = -0.001 ppm
LoD = 0.0035 ppm

Co 228.616 {447} (Axial)



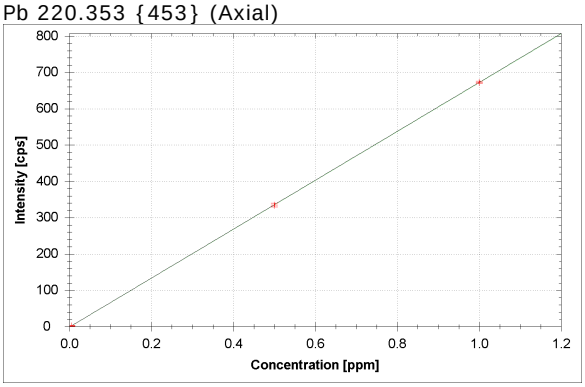
f(x) = 2748.8337*x + -2.1995
R^2 = 1.0000
BEC = -0.001 ppm
LoD = 0.0012 ppm

Ni 231.604 {446} (Axial)



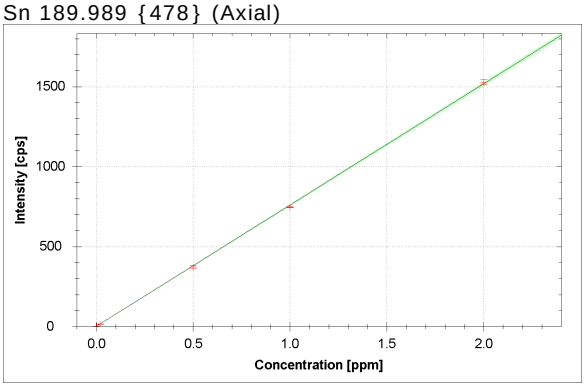
f(x) = 1931.8085*x + 0.8986
R^2 = 0.9999
BEC = 0.000 ppm
LoD = 0.0003 ppm

Pb 220.353 {453} (Axial)



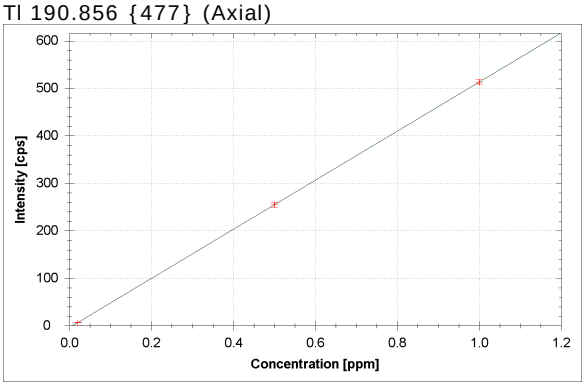
f(x) = 673.8430*x + -1.3177
R^2 = 1.0000
BEC = -0.002 ppm
LoD = 0.0023 ppm

Sn 189.989 {478} (Axial)



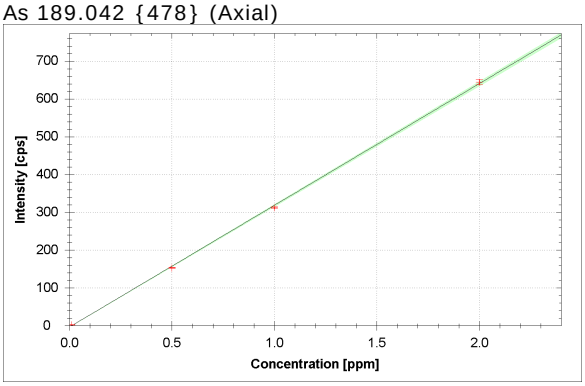
f(x) = 758.0387*x + 1.6917
R^2 = 0.9998
BEC = 0.002 ppm
LoD = 0.0009 ppm

Tl 190.856 {477} (Axial)



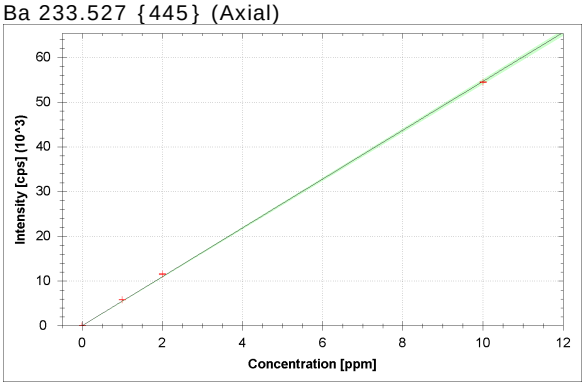
f(x) = 517.0895*x + -3.7968
R^2 = 1.0000
BEC = -0.007 ppm
LoD = 0.0048 ppm

As 189.042 {478} (Axial)



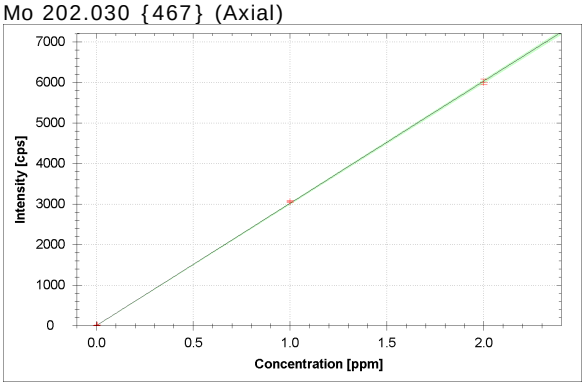
f(x) = 321.8918*x + -3.4890
R^2 = 0.9997
BEC = -0.011 ppm
LoD = 0.0051 ppm

Ba 233.527 {445} (Axial)



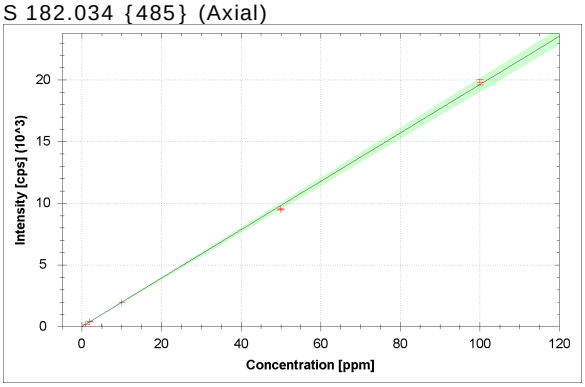
f(x) = 5461.9386*x + 2.0355
R^2 = 0.9998
BEC = 0.000 ppm
LoD = 0.0002 ppm

Mo 202.030 {467} (Axial)



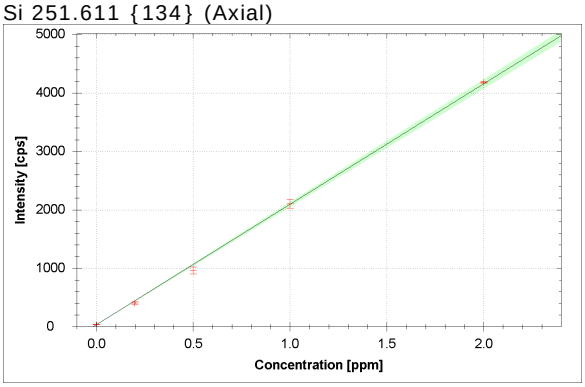
f(x) = 3014.6434*x + 2.4341
R^2 = 0.9999
BEC = 0.001 ppm
LoD = 0.0005 ppm

S 182.034 {485} (Axial)



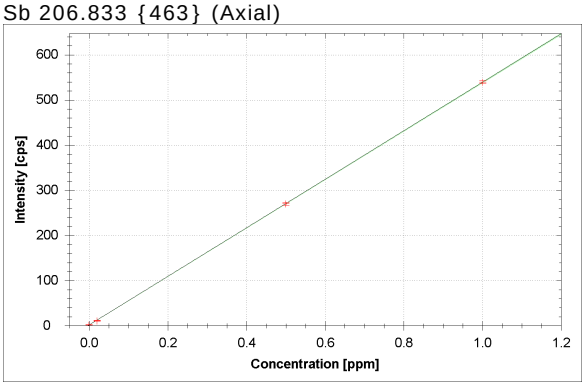
f(x) = 196.0797*x + 2.8042
R^2 = 0.9968
BEC = 0.014 ppm
LoD = 0.0099 ppm

Si 251.611 {134} (Axial)



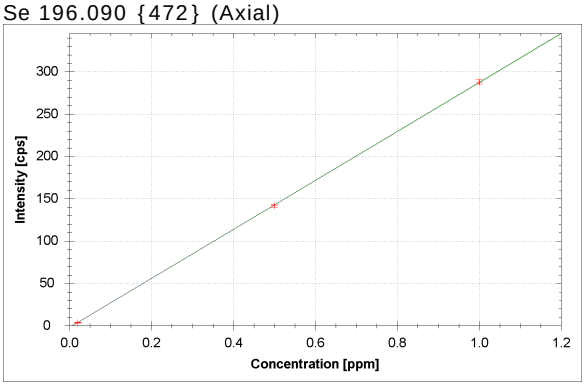
f(x) = 2061.4686*x + 32.2209
R^2 = 0.9988
BEC = 0.016 ppm
LoD = 0.0045 ppm

Sb 206.833 {463} (Axial)



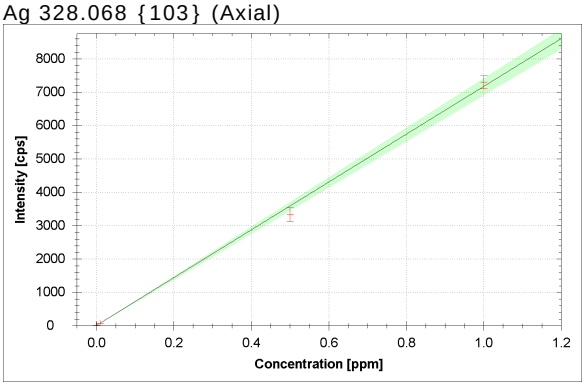
f(x) = 537.4055*x + 1.7943
R^2 = 1.0000
BEC = 0.003 ppm
LoD = 0.0023 ppm

Se 196.090 {472} (Axial)



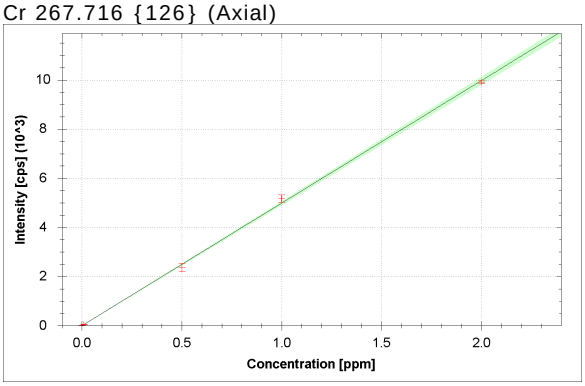
f(x) = 289.3501*x + -2.0141
R^2 = 1.0000
BEC = -0.007 ppm
LoD = 0.0077 ppm

Ag 328.068 {103} (Axial)



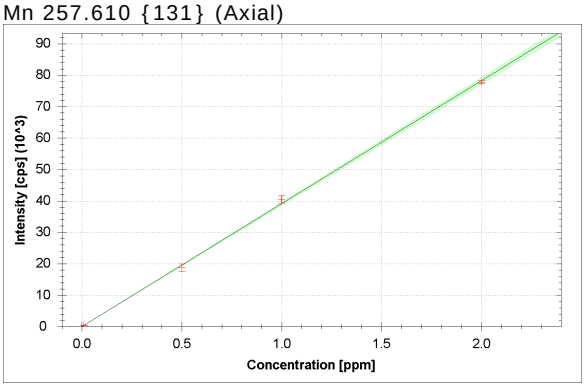
f(x) = 7167.3358*x + 7.0983
R^2 = 0.9977
BEC = 0.001 ppm
LoD = 0.0008 ppm

Cr 267.716 {126} (Axial)



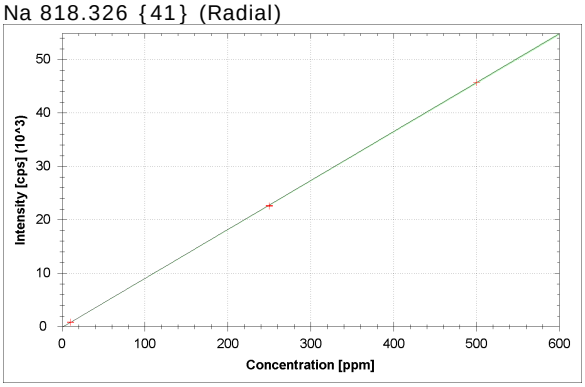
f(x) = 4984.8063*x + 2.4542
R^2 = 0.9992
BEC = 0.000 ppm
LoD = 0.0013 ppm

Mn 257.610 {131} (Axial)



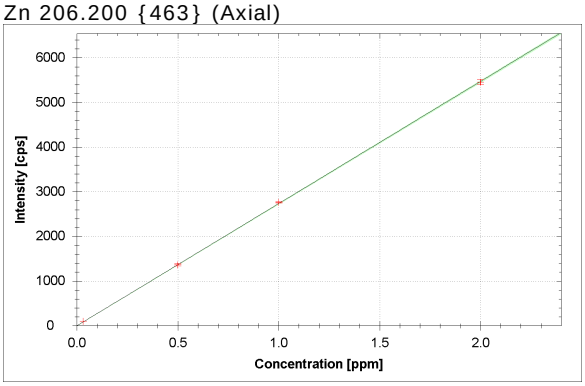
f(x) = 39096.5406*x + 4.7333
R^2 = 0.9993
BEC = 0.000 ppm
LoD = 0.0003 ppm

Na 818.326 {41} (Radial)



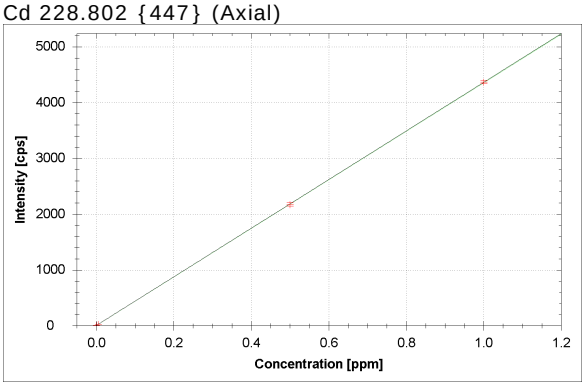
f(x) = 91.5909*x + -158.0937
R^2 = 1.0000
BEC = -1.726 ppm
LoD = 0.1163 ppm

Zn 206.200 {463} (Axial)



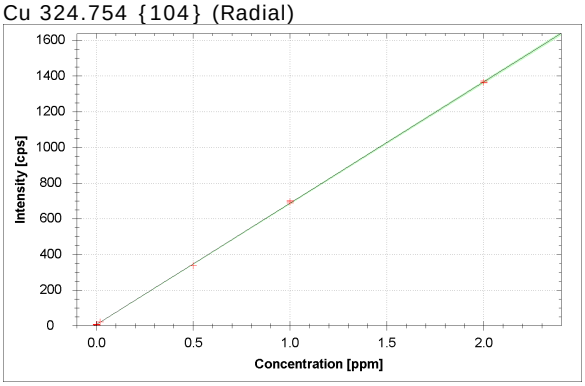
f(x) = 2735.3980*x + -0.4955
R^2 = 0.9999
BEC = 0.000 ppm
LoD = 0.0001 ppm

Cd 228.802 {447} (Axial)



f(x) = 4357.0373*x + 4.5420
R^2 = 1.0000
BEC = 0.001 ppm
LoD = 0.0003 ppm

Cu 324.754 {104} (Radial)



f(x) = 680.0695*x + 6.3716
R^2 = 0.9999
BEC = 0.009 ppm
LoD = 0.0075 ppm

Standard readbacks

	STD1 14G16199 Concentration average	STD1 14G16199 Standard Concentration
Al 308.215 {109} (Radial)	0.096 ppm	0.100 ppm
B 249.678 {135} (Radial)	0.205 ppm	0.200 ppm
Be 313.042 {108} (Radial)	0.002 ppm	0.002 ppm
Ca 317.933 {106} (Radial)	0.562 ppm	0.500 ppm
Ca 373.690 {90} (Radial)	0.000 ppm	
Fe 259.940 {130} (Radial)	0.116 ppm	0.100 ppm
Fe 271.441 {124} (Radial)	0.000 ppm	
K 766.490 {44} (Radial)	0.522 ppm	0.500 ppm
Li 670.784 {50} (Radial)	0.016 ppm	0.015 ppm
Mg 279.079 {121} (Radial)	0.088 ppm	0.100 ppm
Na 589.592 {57} (Radial)	0.515 ppm	0.500 ppm
Sr 421.552 {80} (Radial)	0.010 ppm	0.010 ppm
Ti 334.941 {101} (Radial)	0.011 ppm	0.010 ppm
V 292.402 {115} (Radial)	0.009 ppm	0.010 ppm
Co 228.616 {447} (Axial)	0.010 ppm	0.010 ppm
Ni 231.604 {446} (Axial)	0.022 ppm	0.020 ppm
Pb 220.353 {453} (Axial)	0.005 ppm	0.005 ppm
Sn 189.989 {478} (Axial)	0.020 ppm	0.020 ppm
Tl 190.856 {477} (Axial)	0.020 ppm	0.020 ppm
As 189.042 {478} (Axial)	0.020 ppm	0.010 ppm
Ba 233.527 {445} (Axial)	0.006 ppm	0.005 ppm
Mo 202.030 {467} (Axial)	0.005 ppm	0.005 ppm
S 182.034 {485} (Axial)	-0.004 ppm	5.000 ppm
Si 251.611 {134} (Axial)	0.192 ppm	0.200 ppm
Sb 206.833 {463} (Axial)	0.019 ppm	0.020 ppm
Se 196.090 {472} (Axial)	0.021 ppm	0.020 ppm
Ag 328.068 {103} (Axial)	0.010 ppm	0.010 ppm
Cr 267.716 {126} (Axial)	0.010 ppm	0.010 ppm
Mn 257.610 {131} (Axial)	0.011 ppm	0.010 ppm
Y 360.073 {94} (Radial)	97.215 %	
Y 224.306 {450} (Axial)	100.489 %	
In 230.606 {446} (Axial)	99.942 %	
Y 360.073 {94} (Axial)	98.180 %	
Na 818.326 {41} (Radial)	0.000 ppm	
Zn 206.200 {463} (Axial)	0.038 ppm	0.030 ppm
Cd 228.802 {447} (Axial)	0.005 ppm	0.005 ppm
Cu 324.754 {104} (Radial)	0.020 ppm	0.020 ppm

	STD7 14J27631 Concentration average	STD7 14J27631 Standard Concentration
Al 308.215 {109} (Radial)	0.000 ppm	
B 249.678 {135} (Radial)	0.495 ppm	0.500 ppm
Be 313.042 {108} (Radial)	0.503 ppm	0.500 ppm
Ca 317.933 {106} (Radial)	0.540 ppm	0.500 ppm
Ca 373.690 {90} (Radial)	0.000 ppm	
Fe 259.940 {130} (Radial)	0.000 ppm	
Fe 271.441 {124} (Radial)	0.000 ppm	
K 766.490 {44} (Radial)	0.000 ppm	
Li 670.784 {50} (Radial)	0.506 ppm	0.500 ppm
Mg 279.079 {121} (Radial)	0.000 ppm	
Na 589.592 {57} (Radial)	0.505 ppm	0.500 ppm
Sr 421.552 {80} (Radial)	0.502 ppm	0.500 ppm
Ti 334.941 {101} (Radial)	0.503 ppm	0.500 ppm

	STD7 14J27631	STD7 14J27631
V 292.402 {115} (Radial)	0.509 ppm	0.500 ppm
Co 228.616 {447} (Axial)	0.492 ppm	0.500 ppm
Ni 231.604 {446} (Axial)	0.489 ppm	0.500 ppm
Pb 220.353 {453} (Axial)	0.492 ppm	0.500 ppm
Sn 189.989 {478} (Axial)	0.482 ppm	0.500 ppm
Tl 190.856 {477} (Axial)	0.494 ppm	0.500 ppm
As 189.042 {478} (Axial)	0.487 ppm	0.500 ppm
Ba 233.527 {445} (Axial)	0.000 ppm	
Mo 202.030 {467} (Axial)	0.000 ppm	
S 182.034 {485} (Axial)	0.000 ppm	
Si 251.611 {134} (Axial)	0.481 ppm	0.500 ppm
Sb 206.833 {463} (Axial)	0.492 ppm	0.500 ppm
Se 196.090 {472} (Axial)	0.492 ppm	0.500 ppm
Ag 328.068 {103} (Axial)	0.494 ppm	0.500 ppm
Cr 267.716 {126} (Axial)	0.505 ppm	0.500 ppm
Mn 257.610 {131} (Axial)	0.504 ppm	0.500 ppm
Y 360.073 {94} (Radial)	100.288 %	
Y 224.306 {450} (Axial)	100.890 %	
In 230.606 {446} (Axial)	99.660 %	
Y 360.073 {94} (Axial)	100.513 %	
Na 818.326 {41} (Radial)	0.000 ppm	
Zn 206.200 {463} (Axial)	0.498 ppm	0.500 ppm
Cd 228.802 {447} (Axial)	0.494 ppm	0.500 ppm
Cu 324.754 {104} (Radial)	0.498 ppm	0.500 ppm

	STD2 14J08649	STD2 14J08649
	Concentration average	Standard Concentration
Al 308.215 {109} (Radial)	0.000 ppm	
B 249.678 {135} (Radial)	0.991 ppm	1.000 ppm
Be 313.042 {108} (Radial)	0.985 ppm	1.000 ppm
Ca 317.933 {106} (Radial)	1.061 ppm	1.000 ppm
Ca 373.690 {90} (Radial)	0.000 ppm	
Fe 259.940 {130} (Radial)	1.003 ppm	1.000 ppm
Fe 271.441 {124} (Radial)	0.000 ppm	
K 766.490 {44} (Radial)	0.000 ppm	
Li 670.784 {50} (Radial)	0.988 ppm	1.000 ppm
Mg 279.079 {121} (Radial)	0.000 ppm	
Na 589.592 {57} (Radial)	0.988 ppm	1.000 ppm
Sr 421.552 {80} (Radial)	0.987 ppm	1.000 ppm
Ti 334.941 {101} (Radial)	0.989 ppm	1.000 ppm
V 292.402 {115} (Radial)	0.992 ppm	1.000 ppm
Co 228.616 {447} (Axial)	1.002 ppm	1.000 ppm
Ni 231.604 {446} (Axial)	0.999 ppm	1.000 ppm
Pb 220.353 {453} (Axial)	1.004 ppm	1.000 ppm
Sn 189.989 {478} (Axial)	0.988 ppm	1.000 ppm
Tl 190.856 {477} (Axial)	1.003 ppm	1.000 ppm
As 189.042 {478} (Axial)	0.996 ppm	1.000 ppm
Ba 233.527 {445} (Axial)	1.054 ppm	1.000 ppm
Mo 202.030 {467} (Axial)	1.027 ppm	1.000 ppm
S 182.034 {485} (Axial)	0.940 ppm	1.000 ppm
Si 251.611 {134} (Axial)	0.988 ppm	1.000 ppm
Sb 206.833 {463} (Axial)	1.004 ppm	1.000 ppm
Se 196.090 {472} (Axial)	1.004 ppm	1.000 ppm
Ag 328.068 {103} (Axial)	1.003 ppm	1.000 ppm
Cr 267.716 {126} (Axial)	1.022 ppm	1.000 ppm

	STD2 14J08649	STD2 14J08649
Mn 257.610 {131} (Axial)	1.020 ppm	1.000 ppm
Y 360.073 {94} (Radial)	103.156 %	
Y 224.306 {450} (Axial)	100.569 %	
In 230.606 {446} (Axial)	98.795 %	
Y 360.073 {94} (Axial)	100.056 %	
Na 818.326 {41} (Radial)	0.000 ppm	
Zn 206.200 {463} (Axial)	1.013 ppm	1.000 ppm
Cd 228.802 {447} (Axial)	1.003 ppm	1.000 ppm
Cu 324.754 {104} (Radial)	0.983 ppm	1.000 ppm

	STD3 14J06521	STD3 14J06521
	Concentration average	Standard Concentration
Al 308.215 {109} (Radial)	0.000 ppm	
B 249.678 {135} (Radial)	2.005 ppm	2.000 ppm
Be 313.042 {108} (Radial)	2.007 ppm	2.000 ppm
Ca 317.933 {106} (Radial)	2.035 ppm	2.000 ppm
Ca 373.690 {90} (Radial)	0.000 ppm	
Fe 259.940 {130} (Radial)	2.018 ppm	2.000 ppm
Fe 271.441 {124} (Radial)	0.000 ppm	
K 766.490 {44} (Radial)	0.000 ppm	
Li 670.784 {50} (Radial)	2.004 ppm	2.000 ppm
Mg 279.079 {121} (Radial)	0.000 ppm	
Na 589.592 {57} (Radial)	1.999 ppm	2.000 ppm
Sr 421.552 {80} (Radial)	2.006 ppm	2.000 ppm
Ti 334.941 {101} (Radial)	2.005 ppm	2.000 ppm
V 292.402 {115} (Radial)	2.002 ppm	2.000 ppm
Co 228.616 {447} (Axial)	2.001 ppm	2.000 ppm
Ni 231.604 {446} (Axial)	2.003 ppm	2.000 ppm
Pb 220.353 {453} (Axial)	0.000 ppm	
Sn 189.989 {478} (Axial)	2.011 ppm	2.000 ppm
Tl 190.856 {477} (Axial)	0.000 ppm	
As 189.042 {478} (Axial)	2.006 ppm	2.000 ppm
Ba 233.527 {445} (Axial)	2.059 ppm	2.000 ppm
Mo 202.030 {467} (Axial)	1.986 ppm	2.000 ppm
S 182.034 {485} (Axial)	1.956 ppm	2.000 ppm
Si 251.611 {134} (Axial)	2.012 ppm	2.000 ppm
Sb 206.833 {463} (Axial)	0.000 ppm	
Se 196.090 {472} (Axial)	0.000 ppm	
Ag 328.068 {103} (Axial)	0.000 ppm	
Cr 267.716 {126} (Axial)	1.988 ppm	2.000 ppm
Mn 257.610 {131} (Axial)	1.989 ppm	2.000 ppm
Y 360.073 {94} (Radial)	102.108 %	
Y 224.306 {450} (Axial)	101.674 %	
In 230.606 {446} (Axial)	98.552 %	
Y 360.073 {94} (Axial)	100.505 %	
Na 818.326 {41} (Radial)	0.000 ppm	
Zn 206.200 {463} (Axial)	1.994 ppm	2.000 ppm
Cd 228.802 {447} (Axial)	0.000 ppm	
Cu 324.754 {104} (Radial)	2.009 ppm	2.000 ppm

	STD4 14J27630	STD4 14J27630
	Concentration average	Standard Concentration
Al 308.215 {109} (Radial)	9.984 ppm	10.000 ppm
B 249.678 {135} (Radial)	0.000 ppm	
Be 313.042 {108} (Radial)	0.000 ppm	

	STD4 14J27630	STD4 14J27630
Ca 317.933 {106} (Radial)	9.982 ppm	10.000 ppm
Ca 373.690 {90} (Radial)	10.558 ppm	10.000 ppm
Fe 259.940 {130} (Radial)	9.996 ppm	10.000 ppm
Fe 271.441 {124} (Radial)	11.005 ppm	10.000 ppm
K 766.490 {44} (Radial)	9.933 ppm	10.000 ppm
Li 670.784 {50} (Radial)	0.000 ppm	
Mg 279.079 {121} (Radial)	9.981 ppm	10.000 ppm
Na 589.592 {57} (Radial)	10.000 ppm	10.000 ppm
Sr 421.552 {80} (Radial)	0.000 ppm	
Ti 334.941 {101} (Radial)	0.000 ppm	
V 292.402 {115} (Radial)	0.000 ppm	
Co 228.616 {447} (Axial)	0.000 ppm	
Ni 231.604 {446} (Axial)	0.000 ppm	
Pb 220.353 {453} (Axial)	0.000 ppm	
Sn 189.989 {478} (Axial)	0.000 ppm	
Tl 190.856 {477} (Axial)	0.000 ppm	
As 189.042 {478} (Axial)	0.000 ppm	
Ba 233.527 {445} (Axial)	9.983 ppm	10.000 ppm
Mo 202.030 {467} (Axial)	0.000 ppm	
S 182.034 {485} (Axial)	10.259 ppm	10.000 ppm
Si 251.611 {134} (Axial)	0.000 ppm	
Sb 206.833 {463} (Axial)	0.000 ppm	
Se 196.090 {472} (Axial)	0.000 ppm	
Ag 328.068 {103} (Axial)	0.000 ppm	
Cr 267.716 {126} (Axial)	0.000 ppm	
Mn 257.610 {131} (Axial)	0.000 ppm	
Y 360.073 {94} (Radial)	102.455 %	
Y 224.306 {450} (Axial)	99.989 %	
In 230.606 {446} (Axial)	96.137 %	
Y 360.073 {94} (Axial)	98.556 %	
Na 818.326 {41} (Radial)	10.427 ppm	10.000 ppm
Zn 206.200 {463} (Axial)	0.000 ppm	
Cd 228.802 {447} (Axial)	0.000 ppm	
Cu 324.754 {104} (Radial)	0.000 ppm	

	STD5 14J08650	STD5 14J08650
	Concentration average	Standard Concentration
Al 308.215 {109} (Radial)	250.510 ppm	250.000 ppm
B 249.678 {135} (Radial)	0.000 ppm	
Be 313.042 {108} (Radial)	0.000 ppm	
Ca 317.933 {106} (Radial)	0.000 ppm	
Ca 373.690 {90} (Radial)	253.659 ppm	250.000 ppm
Fe 259.940 {130} (Radial)	0.000 ppm	
Fe 271.441 {124} (Radial)	102.953 ppm	100.000 ppm
K 766.490 {44} (Radial)	49.815 ppm	50.000 ppm
Li 670.784 {50} (Radial)	0.000 ppm	
Mg 279.079 {121} (Radial)	252.382 ppm	250.000 ppm
Na 589.592 {57} (Radial)	0.000 ppm	
Sr 421.552 {80} (Radial)	0.000 ppm	
Ti 334.941 {101} (Radial)	0.000 ppm	
V 292.402 {115} (Radial)	0.000 ppm	
Co 228.616 {447} (Axial)	0.000 ppm	
Ni 231.604 {446} (Axial)	0.000 ppm	
Pb 220.353 {453} (Axial)	0.000 ppm	
Sn 189.989 {478} (Axial)	0.000 ppm	

	STD5 14J08650	STD5 14J08650
Tl 190.856 {477} (Axial)	0.000 ppm	
As 189.042 {478} (Axial)	0.000 ppm	
Ba 233.527 {445} (Axial)	0.000 ppm	
Mo 202.030 {467} (Axial)	0.000 ppm	
S 182.034 {485} (Axial)	49.887 ppm	50.000 ppm
Si 251.611 {134} (Axial)	0.000 ppm	
Sb 206.833 {463} (Axial)	0.000 ppm	
Se 196.090 {472} (Axial)	0.000 ppm	
Ag 328.068 {103} (Axial)	0.000 ppm	
Cr 267.716 {126} (Axial)	0.000 ppm	
Mn 257.610 {131} (Axial)	0.000 ppm	
Y 360.073 {94} (Radial)	95.481 %	
Y 224.306 {450} (Axial)	86.801 %	
In 230.606 {446} (Axial)	73.259 %	
Y 360.073 {94} (Axial)	86.524 %	
Na 818.326 {41} (Radial)	251.441 ppm	250.000 ppm
Zn 206.200 {463} (Axial)	0.000 ppm	
Cd 228.802 {447} (Axial)	0.000 ppm	
Cu 324.754 {104} (Radial)	0.000 ppm	

	STD6 14I24985	STD6 14I24985
	Concentration average	Standard Concentration
Al 308.215 {109} (Radial)	499.745 ppm	500.000 ppm
B 249.678 {135} (Radial)	0.000 ppm	
Be 313.042 {108} (Radial)	0.000 ppm	
Ca 317.933 {106} (Radial)	0.000 ppm	
Ca 373.690 {90} (Radial)	498.159 ppm	500.000 ppm
Fe 259.940 {130} (Radial)	0.000 ppm	
Fe 271.441 {124} (Radial)	198.473 ppm	200.000 ppm
K 766.490 {44} (Radial)	100.099 ppm	100.000 ppm
Li 670.784 {50} (Radial)	0.000 ppm	
Mg 279.079 {121} (Radial)	498.809 ppm	500.000 ppm
Na 589.592 {57} (Radial)	0.000 ppm	
Sr 421.552 {80} (Radial)	0.000 ppm	
Ti 334.941 {101} (Radial)	0.000 ppm	
V 292.402 {115} (Radial)	0.000 ppm	
Co 228.616 {447} (Axial)	0.000 ppm	
Ni 231.604 {446} (Axial)	0.000 ppm	
Pb 220.353 {453} (Axial)	0.000 ppm	
Sn 189.989 {478} (Axial)	0.000 ppm	
Tl 190.856 {477} (Axial)	0.000 ppm	
As 189.042 {478} (Axial)	0.000 ppm	
Ba 233.527 {445} (Axial)	0.000 ppm	
Mo 202.030 {467} (Axial)	0.000 ppm	
S 182.034 {485} (Axial)	100.282 ppm	100.000 ppm
Si 251.611 {134} (Axial)	0.000 ppm	
Sb 206.833 {463} (Axial)	0.000 ppm	
Se 196.090 {472} (Axial)	0.000 ppm	
Ag 328.068 {103} (Axial)	0.000 ppm	
Cr 267.716 {126} (Axial)	0.000 ppm	
Mn 257.610 {131} (Axial)	0.000 ppm	
Y 360.073 {94} (Radial)	95.306 %	
Y 224.306 {450} (Axial)	84.185 %	
In 230.606 {446} (Axial)	67.952 %	
Y 360.073 {94} (Axial)	83.578 %	

	STD6 14I24985	STD6 14I24985
Na 818.326 {41} (Radial)	499.271 ppm	500.000 ppm
Zn 206.200 {463} (Axial)	0.000 ppm	
Cd 228.802 {447} (Axial)	0.000 ppm	
Cu 324.754 {104} (Radial)	0.000 ppm	

	STD1 14G16199	STD1 14G16199
	Concentration average	Standard Concentration
Al 308.215 {109} (Radial)	0.117 ppm	0.100 ppm
B 249.678 {135} (Radial)	0.199 ppm	0.200 ppm
Be 313.042 {108} (Radial)	0.002 ppm	0.002 ppm
Ca 317.933 {106} (Radial)	0.534 ppm	0.500 ppm
Ca 373.690 {90} (Radial)	0.000 ppm	
Fe 259.940 {130} (Radial)	0.107 ppm	0.100 ppm
Fe 271.441 {124} (Radial)	0.000 ppm	
K 766.490 {44} (Radial)	0.481 ppm	0.500 ppm
Li 670.784 {50} (Radial)	0.014 ppm	0.015 ppm
Mg 279.079 {121} (Radial)	0.118 ppm	0.100 ppm
Na 589.592 {57} (Radial)	0.488 ppm	0.500 ppm
Sr 421.552 {80} (Radial)	0.010 ppm	0.010 ppm
Ti 334.941 {101} (Radial)	0.009 ppm	0.010 ppm
V 292.402 {115} (Radial)	0.014 ppm	0.010 ppm
Co 228.616 {447} (Axial)	0.010 ppm	0.010 ppm
Ni 231.604 {446} (Axial)	0.022 ppm	0.020 ppm
Pb 220.353 {453} (Axial)	0.005 ppm	0.005 ppm
Sn 189.989 {478} (Axial)	0.017 ppm	0.020 ppm
Tl 190.856 {477} (Axial)	0.020 ppm	0.020 ppm
As 189.042 {478} (Axial)	0.018 ppm	0.010 ppm
Ba 233.527 {445} (Axial)	0.005 ppm	0.005 ppm
Mo 202.030 {467} (Axial)	0.005 ppm	0.005 ppm
S 182.034 {485} (Axial)	-0.002 ppm	5.000 ppm
Si 251.611 {134} (Axial)	0.180 ppm	0.200 ppm
Sb 206.833 {463} (Axial)	0.017 ppm	0.020 ppm
Se 196.090 {472} (Axial)	0.019 ppm	0.020 ppm
Ag 328.068 {103} (Axial)	0.008 ppm	0.010 ppm
Cr 267.716 {126} (Axial)	0.010 ppm	0.010 ppm
Mn 257.610 {131} (Axial)	0.010 ppm	0.010 ppm
Y 360.073 {94} (Radial)	102.517 %	
Y 224.306 {450} (Axial)	101.708 %	
In 230.606 {446} (Axial)	101.063 %	
Y 360.073 {94} (Axial)	104.614 %	
Na 818.326 {41} (Radial)	0.000 ppm	
Zn 206.200 {463} (Axial)	0.037 ppm	0.030 ppm
Cd 228.802 {447} (Axial)	0.005 ppm	0.005 ppm
Cu 324.754 {104} (Radial)	0.022 ppm	0.020 ppm

	STD7 14J27631	STD7 14J27631
	Concentration average	Standard Concentration
Al 308.215 {109} (Radial)	0.000 ppm	
B 249.678 {135} (Radial)	0.486 ppm	0.500 ppm
Be 313.042 {108} (Radial)	0.493 ppm	0.500 ppm
Ca 317.933 {106} (Radial)	0.531 ppm	0.500 ppm
Ca 373.690 {90} (Radial)	0.000 ppm	
Fe 259.940 {130} (Radial)	0.000 ppm	
Fe 271.441 {124} (Radial)	0.000 ppm	
K 766.490 {44} (Radial)	0.000 ppm	

	STD7 14J27631	STD7 14J27631
Li 670.784 {50} (Radial)	0.498 ppm	0.500 ppm
Mg 279.079 {121} (Radial)	0.000 ppm	
Na 589.592 {57} (Radial)	0.500 ppm	0.500 ppm
Sr 421.552 {80} (Radial)	0.492 ppm	0.500 ppm
Ti 334.941 {101} (Radial)	0.493 ppm	0.500 ppm
V 292.402 {115} (Radial)	0.498 ppm	0.500 ppm
Co 228.616 {447} (Axial)	0.496 ppm	0.500 ppm
Ni 231.604 {446} (Axial)	0.493 ppm	0.500 ppm
Pb 220.353 {453} (Axial)	0.499 ppm	0.500 ppm
Sn 189.989 {478} (Axial)	0.487 ppm	0.500 ppm
Tl 190.856 {477} (Axial)	0.500 ppm	0.500 ppm
As 189.042 {478} (Axial)	0.487 ppm	0.500 ppm
Ba 233.527 {445} (Axial)	0.000 ppm	
Mo 202.030 {467} (Axial)	0.000 ppm	
S 182.034 {485} (Axial)	0.000 ppm	
Si 251.611 {134} (Axial)	0.450 ppm	0.500 ppm
Sb 206.833 {463} (Axial)	0.499 ppm	0.500 ppm
Se 196.090 {472} (Axial)	0.497 ppm	0.500 ppm
Ag 328.068 {103} (Axial)	0.464 ppm	0.500 ppm
Cr 267.716 {126} (Axial)	0.475 ppm	0.500 ppm
Mn 257.610 {131} (Axial)	0.478 ppm	0.500 ppm
Y 360.073 {94} (Radial)	102.393 %	
Y 224.306 {450} (Axial)	99.653 %	
In 230.606 {446} (Axial)	97.383 %	
Y 360.073 {94} (Axial)	106.229 %	
Na 818.326 {41} (Radial)	0.000 ppm	
Zn 206.200 {463} (Axial)	0.499 ppm	0.500 ppm
Cd 228.802 {447} (Axial)	0.498 ppm	0.500 ppm
Cu 324.754 {104} (Radial)	0.487 ppm	0.500 ppm

	STD2 14J08649	STD2 14J08649
	Concentration average	Standard Concentration
Al 308.215 {109} (Radial)	0.000 ppm	
B 249.678 {135} (Radial)	1.009 ppm	1.000 ppm
Be 313.042 {108} (Radial)	1.005 ppm	1.000 ppm
Ca 317.933 {106} (Radial)	1.083 ppm	1.000 ppm
Ca 373.690 {90} (Radial)	0.000 ppm	
Fe 259.940 {130} (Radial)	1.031 ppm	1.000 ppm
Fe 271.441 {124} (Radial)	0.000 ppm	
K 766.490 {44} (Radial)	0.000 ppm	
Li 670.784 {50} (Radial)	1.010 ppm	1.000 ppm
Mg 279.079 {121} (Radial)	0.000 ppm	
Na 589.592 {57} (Radial)	1.021 ppm	1.000 ppm
Sr 421.552 {80} (Radial)	1.007 ppm	1.000 ppm
Ti 334.941 {101} (Radial)	1.008 ppm	1.000 ppm
V 292.402 {115} (Radial)	1.013 ppm	1.000 ppm
Co 228.616 {447} (Axial)	0.993 ppm	1.000 ppm
Ni 231.604 {446} (Axial)	0.992 ppm	1.000 ppm
Pb 220.353 {453} (Axial)	1.001 ppm	1.000 ppm
Sn 189.989 {478} (Axial)	0.982 ppm	1.000 ppm
Tl 190.856 {477} (Axial)	1.000 ppm	1.000 ppm
As 189.042 {478} (Axial)	0.981 ppm	1.000 ppm
Ba 233.527 {445} (Axial)	1.063 ppm	1.000 ppm
Mo 202.030 {467} (Axial)	1.016 ppm	1.000 ppm
S 182.034 {485} (Axial)	0.926 ppm	1.000 ppm

	STD2 14J08649	STD2 14J08649
Si 251.611 {134} (Axial)	1.002 ppm	1.000 ppm
Sb 206.833 {463} (Axial)	1.001 ppm	1.000 ppm
Se 196.090 {472} (Axial)	1.001 ppm	1.000 ppm
Ag 328.068 {103} (Axial)	1.018 ppm	1.000 ppm
Cr 267.716 {126} (Axial)	1.037 ppm	1.000 ppm
Mn 257.610 {131} (Axial)	1.035 ppm	1.000 ppm
Y 360.073 {94} (Radial)	101.928 %	
Y 224.306 {450} (Axial)	100.918 %	
In 230.606 {446} (Axial)	98.471 %	
Y 360.073 {94} (Axial)	99.538 %	
Na 818.326 {41} (Radial)	0.000 ppm	
Zn 206.200 {463} (Axial)	1.011 ppm	1.000 ppm
Cd 228.802 {447} (Axial)	1.001 ppm	1.000 ppm
Cu 324.754 {104} (Radial)	1.010 ppm	1.000 ppm

	STD3 14J06521	STD3 14J06521
	Concentration average	Standard Concentration
Al 308.215 {109} (Radial)	0.000 ppm	
B 249.678 {135} (Radial)	1.999 ppm	2.000 ppm
Be 313.042 {108} (Radial)	1.999 ppm	2.000 ppm
Ca 317.933 {106} (Radial)	2.031 ppm	2.000 ppm
Ca 373.690 {90} (Radial)	0.000 ppm	
Fe 259.940 {130} (Radial)	2.034 ppm	2.000 ppm
Fe 271.441 {124} (Radial)	0.000 ppm	
K 766.490 {44} (Radial)	0.000 ppm	
Li 670.784 {50} (Radial)	1.996 ppm	2.000 ppm
Mg 279.079 {121} (Radial)	0.000 ppm	
Na 589.592 {57} (Radial)	2.021 ppm	2.000 ppm
Sr 421.552 {80} (Radial)	1.999 ppm	2.000 ppm
Ti 334.941 {101} (Radial)	1.998 ppm	2.000 ppm
V 292.402 {115} (Radial)	1.994 ppm	2.000 ppm
Co 228.616 {447} (Axial)	2.004 ppm	2.000 ppm
Ni 231.604 {446} (Axial)	2.006 ppm	2.000 ppm
Pb 220.353 {453} (Axial)	0.000 ppm	
Sn 189.989 {478} (Axial)	2.012 ppm	2.000 ppm
Tl 190.856 {477} (Axial)	0.000 ppm	
As 189.042 {478} (Axial)	2.013 ppm	2.000 ppm
Ba 233.527 {445} (Axial)	2.108 ppm	2.000 ppm
Mo 202.030 {467} (Axial)	1.992 ppm	2.000 ppm
S 182.034 {485} (Axial)	1.945 ppm	2.000 ppm
Si 251.611 {134} (Axial)	2.013 ppm	2.000 ppm
Sb 206.833 {463} (Axial)	0.000 ppm	
Se 196.090 {472} (Axial)	0.000 ppm	
Ag 328.068 {103} (Axial)	0.000 ppm	
Cr 267.716 {126} (Axial)	1.988 ppm	2.000 ppm
Mn 257.610 {131} (Axial)	1.988 ppm	2.000 ppm
Y 360.073 {94} (Radial)	103.284 %	
Y 224.306 {450} (Axial)	100.065 %	
In 230.606 {446} (Axial)	96.784 %	
Y 360.073 {94} (Axial)	101.451 %	
Na 818.326 {41} (Radial)	0.000 ppm	
Zn 206.200 {463} (Axial)	1.995 ppm	2.000 ppm
Cd 228.802 {447} (Axial)	0.000 ppm	
Cu 324.754 {104} (Radial)	1.998 ppm	2.000 ppm

	STD4 14J27630	STD4 14J27630
	Concentration average	Standard Concentration
Al 308.215 {109} (Radial)	9.901 ppm	10.000 ppm
B 249.678 {135} (Radial)	0.000 ppm	
Be 313.042 {108} (Radial)	0.000 ppm	
Ca 317.933 {106} (Radial)	9.982 ppm	10.000 ppm
Ca 373.690 {90} (Radial)	10.499 ppm	10.000 ppm
Fe 259.940 {130} (Radial)	9.990 ppm	10.000 ppm
Fe 271.441 {124} (Radial)	10.813 ppm	10.000 ppm
K 766.490 {44} (Radial)	9.713 ppm	10.000 ppm
Li 670.784 {50} (Radial)	0.000 ppm	
Mg 279.079 {121} (Radial)	9.987 ppm	10.000 ppm
Na 589.592 {57} (Radial)	9.994 ppm	10.000 ppm
Sr 421.552 {80} (Radial)	0.000 ppm	
Ti 334.941 {101} (Radial)	0.000 ppm	
V 292.402 {115} (Radial)	0.000 ppm	
Co 228.616 {447} (Axial)	0.000 ppm	
Ni 231.604 {446} (Axial)	0.000 ppm	
Pb 220.353 {453} (Axial)	0.000 ppm	
Sn 189.989 {478} (Axial)	0.000 ppm	
Tl 190.856 {477} (Axial)	0.000 ppm	
As 189.042 {478} (Axial)	0.000 ppm	
Ba 233.527 {445} (Axial)	9.972 ppm	10.000 ppm
Mo 202.030 {467} (Axial)	0.000 ppm	
S 182.034 {485} (Axial)	9.989 ppm	10.000 ppm
Si 251.611 {134} (Axial)	0.000 ppm	
Sb 206.833 {463} (Axial)	0.000 ppm	
Se 196.090 {472} (Axial)	0.000 ppm	
Ag 328.068 {103} (Axial)	0.000 ppm	
Cr 267.716 {126} (Axial)	0.000 ppm	
Mn 257.610 {131} (Axial)	0.000 ppm	
Y 360.073 {94} (Radial)	104.116 %	
Y 224.306 {450} (Axial)	102.089 %	
In 230.606 {446} (Axial)	97.299 %	
Y 360.073 {94} (Axial)	101.352 %	
Na 818.326 {41} (Radial)	10.612 ppm	10.000 ppm
Zn 206.200 {463} (Axial)	0.000 ppm	
Cd 228.802 {447} (Axial)	0.000 ppm	
Cu 324.754 {104} (Radial)	0.000 ppm	

	STD5 14J08650	STD5 14J08650
	Concentration average	Standard Concentration
Al 308.215 {109} (Radial)	249.265 ppm	250.000 ppm
B 249.678 {135} (Radial)	0.000 ppm	
Be 313.042 {108} (Radial)	0.000 ppm	
Ca 317.933 {106} (Radial)	0.000 ppm	
Ca 373.690 {90} (Radial)	252.574 ppm	250.000 ppm
Fe 259.940 {130} (Radial)	0.000 ppm	
Fe 271.441 {124} (Radial)	101.891 ppm	100.000 ppm
K 766.490 {44} (Radial)	49.216 ppm	50.000 ppm
Li 670.784 {50} (Radial)	0.000 ppm	
Mg 279.079 {121} (Radial)	250.424 ppm	250.000 ppm
Na 589.592 {57} (Radial)	0.000 ppm	
Sr 421.552 {80} (Radial)	0.000 ppm	
Ti 334.941 {101} (Radial)	0.000 ppm	

	STD5 14J08650	STD5 14J08650
V 292.402 {115} (Radial)	0.000 ppm	
Co 228.616 {447} (Axial)	0.000 ppm	
Ni 231.604 {446} (Axial)	0.000 ppm	
Pb 220.353 {453} (Axial)	0.000 ppm	
Sn 189.989 {478} (Axial)	0.000 ppm	
Tl 190.856 {477} (Axial)	0.000 ppm	
As 189.042 {478} (Axial)	0.000 ppm	
Ba 233.527 {445} (Axial)	0.000 ppm	
Mo 202.030 {467} (Axial)	0.000 ppm	
S 182.034 {485} (Axial)	48.513 ppm	50.000 ppm
Si 251.611 {134} (Axial)	0.000 ppm	
Sb 206.833 {463} (Axial)	0.000 ppm	
Se 196.090 {472} (Axial)	0.000 ppm	
Ag 328.068 {103} (Axial)	0.000 ppm	
Cr 267.716 {126} (Axial)	0.000 ppm	
Mn 257.610 {131} (Axial)	0.000 ppm	
Y 360.073 {94} (Radial)	96.374 %	
Y 224.306 {450} (Axial)	87.639 %	
In 230.606 {446} (Axial)	73.766 %	
Y 360.073 {94} (Axial)	87.607 %	
Na 818.326 {41} (Radial)	248.199 ppm	250.000 ppm
Zn 206.200 {463} (Axial)	0.000 ppm	
Cd 228.802 {447} (Axial)	0.000 ppm	
Cu 324.754 {104} (Radial)	0.000 ppm	

	STD6 14I24985	STD6 14I24985
	Concentration average	Standard Concentration
Al 308.215 {109} (Radial)	500.369 ppm	500.000 ppm
B 249.678 {135} (Radial)	0.000 ppm	
Be 313.042 {108} (Radial)	0.000 ppm	
Ca 317.933 {106} (Radial)	0.000 ppm	
Ca 373.690 {90} (Radial)	498.703 ppm	500.000 ppm
Fe 259.940 {130} (Radial)	0.000 ppm	
Fe 271.441 {124} (Radial)	199.014 ppm	200.000 ppm
K 766.490 {44} (Radial)	100.421 ppm	100.000 ppm
Li 670.784 {50} (Radial)	0.000 ppm	
Mg 279.079 {121} (Radial)	499.788 ppm	500.000 ppm
Na 589.592 {57} (Radial)	0.000 ppm	
Sr 421.552 {80} (Radial)	0.000 ppm	
Ti 334.941 {101} (Radial)	0.000 ppm	
V 292.402 {115} (Radial)	0.000 ppm	
Co 228.616 {447} (Axial)	0.000 ppm	
Ni 231.604 {446} (Axial)	0.000 ppm	
Pb 220.353 {453} (Axial)	0.000 ppm	
Sn 189.989 {478} (Axial)	0.000 ppm	
Tl 190.856 {477} (Axial)	0.000 ppm	
As 189.042 {478} (Axial)	0.000 ppm	
Ba 233.527 {445} (Axial)	0.000 ppm	
Mo 202.030 {467} (Axial)	0.000 ppm	
S 182.034 {485} (Axial)	100.997 ppm	100.000 ppm
Si 251.611 {134} (Axial)	0.000 ppm	
Sb 206.833 {463} (Axial)	0.000 ppm	
Se 196.090 {472} (Axial)	0.000 ppm	
Ag 328.068 {103} (Axial)	0.000 ppm	
Cr 267.716 {126} (Axial)	0.000 ppm	

	STD6 14I24985	STD6 14I24985
Mn 257.610 {131} (Axial)	0.000 ppm	
Y 360.073 {94} (Radial)	95.413 %	
Y 224.306 {450} (Axial)	83.087 %	
In 230.606 {446} (Axial)	66.737 %	
Y 360.073 {94} (Axial)	83.525 %	
Na 818.326 {41} (Radial)	500.888 ppm	500.000 ppm
Zn 206.200 {463} (Axial)	0.000 ppm	
Cd 228.802 {447} (Axial)	0.000 ppm	
Cu 324.754 {104} (Radial)	0.000 ppm	

Sample list

Label	Sample Type	Repeats	Rack	Vial
CALBLK	BLK	3	1	1
STD1 14G16199	STD	3	1	2
STD7 14J27631	STD	3	1	3
STD2 14J08649	STD	3	1	4
STD3 14J06521	STD	3	1	5
STD4 14J27630	STD	3	1	6
STD5 14J08650	STD	3	1	7
STD6 14I24985	STD	3	1	8
ICV 14I23903	QC	3	1	9
ICV 14I23903	QC	3	1	9
ICB	QC	3	1	10
ICVLL 14G16199	QC	3	1	11
CALBLK	BLK	3	1	1
STD1 14G16199	STD	3	1	2
STD7 14J27631	STD	3	1	3
STD2 14J08649	STD	3	1	4
STD3 14J06521	STD	3	1	5
STD4 14J27630	STD	3	1	6
STD5 14J08650	STD	3	1	7
STD6 14I24985	STD	3	1	8
ICV 14I23903	QC	3	1	9
ICB	QC	3	1	10
ICVLL 14G16199	QC	3	1	11
ICSA 14J10823	QC	3	1	12
ICSAB 14J10824	QC	3	1	13
carryover	UNKNOWN	3	0	1
BLANK WG756747	UNKNOWN	3	1	14
LCS WG756747	UNKNOWN	3	1	15
LCSD WG756747	UNKNOWN	3	1	16
L734231-16 WG756747	UNKNOWN	3	1	17
SD L734231-16 WG756747	UNKNOWN	3	1	18
PS L734231-16 WG756747	UNKNOWN	3	1	19
MS L734231-16 WG756747	UNKNOWN	3	1	20
MSD L734231-16 WG756747	UNKNOWN	3	1	21
L734231-19 WG756747	UNKNOWN	3	1	22
CCV 14J27642	QC	3	1	23
CCB	QC	3	1	24
L734231-20 WG756747	UNKNOWN	3	1	25
L734231-24 WG756747	UNKNOWN	3	1	26
L734810-03 WG756747	UNKNOWN	3	1	27
L734810-05 WG756747	UNKNOWN	3	1	28
L734810-07 WG756747	UNKNOWN	3	1	29
L734810-09 WG756747	UNKNOWN	3	1	30
L735181-02 WG756747	UNKNOWN	3	1	31
L735181-05 WG756747	UNKNOWN	3	1	32
L735181-07 WG756747	UNKNOWN	3	1	33
L735181-08 WG756747	UNKNOWN	3	1	34
CCV 14J27642	QC	3	1	35
CCB	QC	3	1	36
L735318-07 WG756747	UNKNOWN	3	1	37
L735318-08 WG756747	UNKNOWN	3	1	38
INSTBLK WG756536	QC	3	1	39
BLANK WG756536	UNKNOWN	3	1	39
LCS WG756536	UNKNOWN	3	1	40

Label	Sample Type	Repeats	Rack	Vial
LCSD WG756536	UNKNOWN	3	1	41
L734718-07 WG756536	UNKNOWN	3	1	42
SD L734718-07 WG756536	UNKNOWN	3	1	43
PS L734718-07 WG756536	UNKNOWN	3	1	44
MS L734718-07 WG756536	UNKNOWN	3	1	45
MSD L734718-07 WG756536	UNKNOWN	3	1	46
CCV 14J27642	QC	3	1	47
CCB	QC	3	1	48
L734231-11 WG756536	UNKNOWN	3	1	49
L734231-12 WG756536	UNKNOWN	3	1	50
L734718-08 WG756536	UNKNOWN	3	1	51
L734718-09 WG756536	UNKNOWN	3	1	52
L734718-10 WG756536	UNKNOWN	3	1	53
L735318-05 WG756536	UNKNOWN	3	1	54
BLANK WG757110	UNKNOWN	3	1	55
BLANK WG757110	UNKNOWN	3	1	55
LCS WG757110	UNKNOWN	3	1	56
LCSD WG757110	UNKNOWN	3	1	57
L734231-03 WG757110	UNKNOWN	3	1	58
CCV 14J27642	QC	3	1	59
CCB	QC	3	1	60
SD L734231-03 WG757110	UNKNOWN	3	2	1
PS L734231-03 WG757110	UNKNOWN	3	2	2
MS L734231-03 WG757110	UNKNOWN	3	2	3
MSD L734231-03 WG757110	UNKNOWN	3	2	4
L734231-04 WG757110	UNKNOWN	3	2	5
L734231-05 WG757110	UNKNOWN	3	2	6
L734231-06 WG757110	UNKNOWN	3	2	7
L734231-07 WG757110	UNKNOWN	3	2	8
L734231-08 WG757110	UNKNOWN	3	2	9
CCV 14J27642	QC	3	2	10
CCB	QC	3	2	11
CCVLL 14G16199	QC	3	2	12
ICSA 14J10823	QC	3	2	13
ICSAB 14J10824	QC	3	2	14
carryover	UNKNOWN	3	0	1
LCS WG757110	UNKNOWN	3	3	1
LCSD WG757110	UNKNOWN	3	3	2
CCV 14J27642	QC	3	3	3
CCB	QC	3	3	4
CCVLL 14G16199	QC	3	3	5
ICSA 14J10823	QC	3	3	6
ICSAB 14J10824	QC	3	3	7
carryover	UNKNOWN	3	0	1

Start Time	Stop Time
11/28/2014 1:21:15 PM	11/28/2014 1:25:44 PM
11/28/2014 1:25:45 PM	11/28/2014 1:30:16 PM
11/28/2014 1:30:16 PM	11/28/2014 1:34:34 PM
11/28/2014 1:34:34 PM	11/28/2014 1:38:47 PM
11/28/2014 1:38:47 PM	11/28/2014 1:42:57 PM
11/28/2014 1:42:57 PM	11/28/2014 1:47:23 PM
11/28/2014 1:47:23 PM	11/28/2014 1:51:58 PM
11/28/2014 1:51:58 PM	11/28/2014 1:56:32 PM
11/28/2014 1:56:32 PM	11/28/2014 2:00:10 PM

Start Time	Stop Time
11/28/2014 2:01:23 PM	11/28/2014 2:05:36 PM
11/28/2014 2:05:36 PM	11/28/2014 2:10:10 PM
11/28/2014 2:10:10 PM	11/28/2014 2:11:31 PM
11/28/2014 2:23:32 PM	11/28/2014 2:28:02 PM
11/28/2014 2:28:02 PM	11/28/2014 2:32:32 PM
11/28/2014 2:32:33 PM	11/28/2014 2:36:51 PM
11/28/2014 2:36:52 PM	11/28/2014 2:41:07 PM
11/28/2014 2:41:07 PM	11/28/2014 2:45:17 PM
11/28/2014 2:45:17 PM	11/28/2014 2:49:42 PM
11/28/2014 2:49:43 PM	11/28/2014 2:54:17 PM
11/28/2014 2:54:18 PM	11/28/2014 2:58:52 PM
11/28/2014 2:58:52 PM	11/28/2014 3:03:06 PM
11/28/2014 3:03:06 PM	11/28/2014 3:07:39 PM
11/28/2014 3:07:39 PM	11/28/2014 3:12:13 PM
11/28/2014 3:12:13 PM	11/28/2014 3:16:43 PM
11/28/2014 3:16:43 PM	11/28/2014 3:20:56 PM
11/28/2014 3:20:56 PM	11/28/2014 3:25:27 PM
11/28/2014 3:25:27 PM	11/28/2014 3:29:58 PM
11/28/2014 3:29:58 PM	11/28/2014 3:34:09 PM
11/28/2014 3:34:09 PM	11/28/2014 3:38:23 PM
11/28/2014 3:38:23 PM	11/28/2014 3:43:05 PM
11/28/2014 3:43:06 PM	11/28/2014 3:47:32 PM
11/28/2014 3:47:32 PM	11/28/2014 3:52:00 PM
11/28/2014 3:52:00 PM	11/28/2014 3:56:38 PM
11/28/2014 3:56:38 PM	11/28/2014 4:01:15 PM
11/28/2014 4:01:16 PM	11/28/2014 4:05:50 PM
11/28/2014 4:05:51 PM	11/28/2014 4:10:00 PM
11/28/2014 4:10:00 PM	11/28/2014 4:14:34 PM
11/28/2014 4:14:34 PM	11/28/2014 4:19:12 PM
11/28/2014 4:19:13 PM	11/28/2014 4:23:45 PM
11/28/2014 4:23:45 PM	11/28/2014 4:28:19 PM
11/28/2014 4:28:19 PM	11/28/2014 4:32:52 PM
11/28/2014 4:32:52 PM	11/28/2014 4:37:24 PM
11/28/2014 4:37:24 PM	11/28/2014 4:41:55 PM
11/28/2014 4:41:56 PM	11/28/2014 4:46:31 PM
11/28/2014 4:46:31 PM	11/28/2014 4:51:06 PM
11/28/2014 4:51:06 PM	11/28/2014 4:55:40 PM
11/28/2014 4:55:40 PM	11/28/2014 5:00:08 PM
11/28/2014 5:00:08 PM	11/28/2014 5:04:17 PM
11/28/2014 5:04:17 PM	11/28/2014 5:08:51 PM
11/28/2014 5:08:51 PM	11/28/2014 5:13:16 PM
11/28/2014 5:13:16 PM	11/28/2014 5:17:41 PM
11/28/2014 5:17:41 PM	11/28/2014 5:21:30 PM
11/28/2014 5:33:33 PM	11/28/2014 5:38:05 PM
11/28/2014 5:38:05 PM	11/28/2014 5:42:11 PM
11/28/2014 5:42:11 PM	11/28/2014 5:46:17 PM
11/28/2014 5:46:17 PM	11/28/2014 5:50:45 PM
11/28/2014 5:50:45 PM	11/28/2014 5:55:13 PM
11/28/2014 5:55:14 PM	11/28/2014 5:59:26 PM
11/28/2014 5:59:26 PM	11/28/2014 6:03:45 PM
11/28/2014 6:03:45 PM	11/28/2014 6:08:06 PM
11/28/2014 6:08:06 PM	11/28/2014 6:12:15 PM
11/28/2014 6:12:15 PM	11/28/2014 6:16:50 PM
11/28/2014 6:16:50 PM	11/28/2014 6:21:17 PM
11/28/2014 6:21:17 PM	11/28/2014 6:25:49 PM

Start Time	Stop Time
11/28/2014 6:25:49 PM	11/28/2014 6:30:15 PM
11/28/2014 6:30:15 PM	11/28/2014 6:34:43 PM
11/28/2014 6:34:43 PM	11/28/2014 6:39:08 PM
11/28/2014 6:39:09 PM	11/28/2014 6:43:33 PM
11/28/2014 6:43:33 PM	11/28/2014 6:48:06 PM
11/28/2014 6:48:06 PM	11/28/2014 6:52:38 PM
11/28/2014 6:52:38 PM	11/28/2014 6:57:18 PM
11/28/2014 6:57:19 PM	11/28/2014 7:01:59 PM
11/28/2014 7:01:59 PM	11/28/2014 7:06:30 PM
11/28/2014 7:06:30 PM	11/28/2014 7:10:40 PM
11/28/2014 7:10:40 PM	11/28/2014 7:15:14 PM
11/28/2014 7:15:14 PM	11/28/2014 7:20:42 PM
11/28/2014 7:20:42 PM	11/28/2014 7:24:53 PM
11/28/2014 7:24:53 PM	11/28/2014 7:29:13 PM
11/28/2014 7:29:13 PM	11/28/2014 7:33:35 PM
11/28/2014 7:33:35 PM	11/28/2014 7:38:02 PM
11/28/2014 7:38:02 PM	11/28/2014 7:42:30 PM
11/28/2014 7:42:30 PM	11/28/2014 7:46:58 PM
11/28/2014 7:46:59 PM	11/28/2014 7:51:26 PM
11/28/2014 7:51:27 PM	11/28/2014 7:55:55 PM
11/28/2014 7:55:55 PM	11/28/2014 8:00:05 PM
11/28/2014 8:00:05 PM	11/28/2014 8:04:39 PM
11/28/2014 8:04:39 PM	11/28/2014 8:09:11 PM
11/28/2014 8:09:12 PM	11/28/2014 8:13:40 PM
11/28/2014 8:13:40 PM	11/28/2014 8:17:56 PM
11/28/2014 8:17:56 PM	11/28/2014 8:22:28 PM
11/28/2014 8:47:38 PM	11/28/2014 8:51:48 PM
11/28/2014 8:51:49 PM	11/28/2014 8:55:59 PM
11/28/2014 8:56:00 PM	11/28/2014 9:00:10 PM
11/28/2014 9:00:10 PM	11/28/2014 9:04:45 PM
11/28/2014 9:04:45 PM	11/28/2014 9:09:18 PM
11/28/2014 9:09:19 PM	11/28/2014 9:13:48 PM
11/28/2014 9:13:49 PM	11/28/2014 9:18:05 PM
11/28/2014 9:18:06 PM	11/28/2014 9:22:38 PM

CALBLK

Sample Type BLK Analysis Date 11/28/2014 1:25:44 PM

Dilution Factor 1

	Al 308.215 {109} (Radial)	B 249.678 {135} (Radial)	Be 313.042 {108} (Radial)	Ca 317.933 {106} (Radial)
Concentration average	0.000 ppm	0.000 ppm	0.000 ppm	0.000 ppm
Concentration per Run	0.000 ppm	0.000 ppm	0.000 ppm	0.000 ppm
Concentration RSD	0.3 %	1.5 %	-1.4 %	0.1 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Ca 373.690 {90} (Radial)	Fe 259.940 {130} (Radial)	Fe 271.441 {124} (Radial)	K 766.490 {44} (Radial)
Concentration average	0.000 ppm	0.000 ppm	0.000 ppm	0.000 ppm
Concentration per Run	0.000 ppm	0.000 ppm	0.000 ppm	0.000 ppm
Concentration RSD	0.3 %	1.2 %	1.0 %	0.4 %
Concentration SD	0.0 ppm	0.0 ppm	0.1 ppm	0.0 ppm

	Li 670.784 {50} (Radial)	Mg 279.079 {121} (Radial)	Na 589.592 {57} (Radial)	Sr 421.552 {80} (Radial)
Concentration average	0.000 ppm	0.000 ppm	0.000 ppm	0.000 ppm
Concentration per Run	0.000 ppm	0.000 ppm	0.000 ppm	0.000 ppm
Concentration RSD	-0.4 %	1.0 %	0.3 %	-3.5 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Ti 334.941 {101} (Radial)	V 292.402 {115} (Radial)	Co 228.616 {447} (Axial)	Ni 231.604 {446} (Axial)
Concentration average	0.000 ppm	0.000 ppm	0.000 ppm	0.000 ppm
Concentration per Run	0.000 ppm	0.000 ppm	0.000 ppm	0.000 ppm
Concentration RSD	-1.3 %	6.0 %	-0.1 %	0.5 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Pb 220.353 {453} (Axial)	Sn 189.989 {478} (Axial)	Tl 190.856 {477} (Axial)	As 189.042 {478} (Axial)
Concentration average	0.000 ppm	0.000 ppm	0.000 ppm	0.000 ppm
Concentration per Run	0.000 ppm	0.000 ppm	0.000 ppm	0.000 ppm
Concentration RSD	-0.3 %	0.0 %	-0.1 %	0.0 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Ba 233.527 {445} (Axial)	Mo 202.030 {467} (Axial)	S 182.034 {485} (Axial)	Si 251.611 {134} (Axial)
Concentration average	0.000 ppm	0.000 ppm	0.000 ppm	0.000 ppm
Concentration per Run	0.000 ppm	0.000 ppm	0.000 ppm	0.000 ppm
Concentration RSD	0.1 %	0.2 %	0.1 %	0.2 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)	Cr 267.716 {126} (Axial)
Concentration average	0.000 ppm	0.000 ppm	0.000 ppm	0.000 ppm

	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)	Cr 267.716 {126} (Axial)
Concentration per Run	0.000 ppm	0.000 ppm	0.000 ppm	0.000 ppm
Concentration RSD	1.0 %	-0.4 %	-2.9 %	0.5 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Mn 257.610 {131} (Axial)	Y 360.073 {94} (Radial)	Y 224.306 {450} (Axial)	In 230.606 {446} (Axial)
Concentration average	0.000 ppm	100.000 %	100.000 %	100.000 %
Concentration per Run	0.000 ppm	100.000 %	100.000 %	100.000 %
Concentration RSD	0.3 %			
Concentration SD	0.0 ppm			

	Y 360.073 {94} (Axial)	Na 818.326 {41} (Radial)	Zn 206.200 {463} (Axial)	Cd 228.802 {447} (Axial)
Concentration average	100.000 %	0.000 ppm	0.000 ppm	0.000 ppm
Concentration per Run	100.000 %	0.000 ppm	0.000 ppm	0.000 ppm
Concentration RSD		-0.1 %	-0.1 %	0.1 %
Concentration SD		0.0 ppm	0.0 ppm	0.0 ppm

	Cu 324.754 {104} (Radial)
Concentration average	0.000 ppm
Concentration per Run	0.000 ppm
Concentration RSD	0.2 %
Concentration SD	0.0 ppm

	Al 308.215 {109} (Radial)	B 249.678 {135} (Radial)	Be 313.042 {108} (Radial)	Ca 317.933 {106} (Radial)
Intensity average	5 cps	1 cps	-1 cps	9 cps

	Ca 373.690 {90} (Radial)	Fe 259.940 {130} (Radial)	Fe 271.441 {124} (Radial)	K 766.490 {44} (Radial)
Intensity average	10 cps	1 cps	1 cps	21 cps

	Li 670.784 {50} (Radial)	Mg 279.079 {121} (Radial)	Na 589.592 {57} (Radial)	Sr 421.552 {80} (Radial)
Intensity average	-10 cps	1 cps	25 cps	-1 cps

	Ti 334.941 {101} (Radial)	V 292.402 {115} (Radial)	Co 228.616 {447} (Axial)	Ni 231.604 {446} (Axial)
Intensity average	-1 cps	0 cps	-2 cps	1 cps

	Pb 220.353 {453} (Axial)	Sn 189.989 {478} (Axial)	Tl 190.856 {477} (Axial)	As 189.042 {478} (Axial)
Intensity average	-2 cps	1 cps	-5 cps	-3 cps

	Ba 233.527 {445} (Axial)	Mo 202.030 {467} (Axial)	S 182.034 {485} (Axial)	Si 251.611 {134} (Axial)
Intensity average	2 cps	2 cps	3 cps	15 cps

	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)	Cr 267.716 {126} (Axial)
Intensity average	0 cps	-2 cps	-1 cps	3 cps

	Mn 257.610 {131} (Axial)	Y 360.073 {94} (Radial)	Y 224.306 {450} (Axial)	In 230.606 {446} (Axial)
Intensity average	5 cps	4,882 cps	7,935 cps	2,811 cps

	Y 360.073 {94} (Axial)	Na 818.326 {41} (Radial)	Zn 206.200 {463} (Axial)	Cd 228.802 {447} (Axial)
Intensity average	133,103 cps	-47 cps	-1 cps	4 cps

	Cu 324.754 {104} (Radial)
Intensity average	8 cps

Comprehensive sample report

11/28/2014 10:10:14 PM

STD1 14G16199

Sample Type STD Analysis Date 11/28/2014 1:30:16 PM

Dilution Factor 1

	Al 308.215 {109} (Radial)	B 249.678 {135} (Radial)	Be 313.042 {108} (Radial)	Ca 317.933 {106} (Radial)
Concentration average	0.096 ppm	0.205 ppm	0.002 ppm	0.562 ppm
Concentration per Run 1	0.079 ppm	0.201 ppm	0.002 ppm	0.562 ppm
Concentration per Run 2	0.081 ppm	0.203 ppm	0.002 ppm	0.556 ppm
Concentration per Run 3	0.127 ppm	0.211 ppm	0.002 ppm	0.568 ppm
Concentration RSD	28.4 %	2.5 %	2.1 %	1.0 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Ca 373.690 {90} (Radial)	Fe 259.940 {130} (Radial)	Fe 271.441 {124} (Radial)	K 766.490 {44} (Radial)
Concentration average	0.000 ppm	0.116 ppm	0.000 ppm	0.522 ppm
Concentration per Run 1	0.000 ppm	0.116 ppm	0.000 ppm	0.530 ppm
Concentration per Run 2	0.000 ppm	0.113 ppm	0.000 ppm	0.518 ppm
Concentration per Run 3	0.000 ppm	0.118 ppm	0.000 ppm	0.517 ppm
Concentration RSD		2.0 %		1.4 %
Concentration SD		0.0 ppm		0.0 ppm

	Li 670.784 {50} (Radial)	Mg 279.079 {121} (Radial)	Na 589.592 {57} (Radial)	Sr 421.552 {80} (Radial)
Concentration average	0.016 ppm	0.088 ppm	0.515 ppm	0.010 ppm
Concentration per Run 1	0.015 ppm	0.081 ppm	0.517 ppm	0.011 ppm
Concentration per Run 2	0.016 ppm	0.097 ppm	0.517 ppm	0.010 ppm
Concentration per Run 3	0.016 ppm	0.085 ppm	0.510 ppm	0.010 ppm
Concentration RSD	2.9 %	9.0 %	0.8 %	0.7 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Ti 334.941 {101} (Radial)	V 292.402 {115} (Radial)	Co 228.616 {447} (Axial)	Ni 231.604 {446} (Axial)
Concentration average	0.011 ppm	0.009 ppm	0.010 ppm	0.022 ppm
Concentration per Run 1	0.012 ppm	0.011 ppm	0.010 ppm	0.022 ppm
Concentration per Run 2	0.011 ppm	0.006 ppm	0.010 ppm	0.023 ppm
Concentration per Run 3	0.011 ppm	0.012 ppm	0.010 ppm	0.022 ppm
Concentration RSD	4.4 %	36.0 %	1.5 %	2.1 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Pb 220.353 {453} (Axial)	Sn 189.989 {478} (Axial)	Tl 190.856 {477} (Axial)	As 189.042 {478} (Axial)
Concentration average	0.005 ppm	0.020 ppm	0.020 ppm	0.020 ppm
Concentration per Run 1	0.006 ppm	0.020 ppm	0.021 ppm	0.020 ppm
Concentration per Run 2	0.004 ppm	0.020 ppm	0.019 ppm	0.019 ppm
Concentration per Run 3	0.006 ppm	0.020 ppm	0.021 ppm	0.019 ppm
Concentration RSD	15.7 %	1.3 %	3.8 %	1.4 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Ba 233.527 {445} (Axial)	Mo 202.030 {467} (Axial)	S 182.034 {485} (Axial)	Si 251.611 {134} (Axial)
Concentration average	0.006 ppm	0.005 ppm	-0.004 ppm	0.192 ppm
Concentration per Run 1	0.006 ppm	0.005 ppm	-0.004 ppm	0.190 ppm
Concentration per Run 2	0.006 ppm	0.005 ppm	-0.003 ppm	0.194 ppm
Concentration per Run 3	0.005 ppm	0.005 ppm	-0.006 ppm	0.192 ppm
Concentration RSD	4.0 %	3.7 %	32.4 %	1.0 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)	Cr 267.716 {126} (Axial)
Concentration average	0.019 ppm	0.021 ppm	0.010 ppm	0.010 ppm
Concentration per Run 1	0.020 ppm	0.021 ppm	0.009 ppm	0.011 ppm
Concentration per Run 2	0.018 ppm	0.022 ppm	0.010 ppm	0.010 ppm
Concentration per Run 3	0.019 ppm	0.020 ppm	0.010 ppm	0.010 ppm
Concentration RSD	5.6 %	4.9 %	3.4 %	4.4 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Mn 257.610 {131} (Axial)	Y 360.073 {94} (Radial)	Y 224.306 {450} (Axial)	In 230.606 {446} (Axial)
Concentration average	0.011 ppm	97.215 %	100.489 %	99.942 %
Concentration per Run 1	0.011 ppm	96.689 %	99.000 %	98.743 %
Concentration per Run 2	0.011 ppm	97.788 %	99.502 %	98.881 %
Concentration per Run 3	0.011 ppm	97.168 %	102.967 %	102.201 %
Concentration RSD	0.7 %			
Concentration SD	0.0 ppm			

	Y 360.073 {94} (Axial)	Na 818.326 {41} (Radial)	Zn 206.200 {463} (Axial)	Cd 228.802 {447} (Axial)
Concentration average	98.180 %	0.000 ppm	0.038 ppm	0.005 ppm
Concentration per Run 1	97.823 %	0.000 ppm	0.038 ppm	0.005 ppm
Concentration per Run 2	98.403 %	0.000 ppm	0.038 ppm	0.005 ppm
Concentration per Run 3	98.313 %	0.000 ppm	0.037 ppm	0.005 ppm
Concentration RSD			2.5 %	5.0 %
Concentration SD			0.0 ppm	0.0 ppm

	Cu 324.754 {104} (Radial)
Concentration average	0.020 ppm
Concentration per Run 1	0.018 ppm
Concentration per Run 2	0.022 ppm
Concentration per Run 3	0.020 ppm
Concentration RSD	11.4 %
Concentration SD	0.0 ppm

	Al 308.215 {109} (Radial)	B 249.678 {135} (Radial)	Be 313.042 {108} (Radial)	Ca 317.933 {106} (Radial)
Intensity average	9 cps	42 cps	31 cps	175 cps

	Ca 373.690 {90} (Radial)	Fe 259.940 {130} (Radial)	Fe 271.441 {124} (Radial)	K 766.490 {44} (Radial)
Intensity average	107 cps	33 cps	2 cps	312 cps

	Li 670.784 {50} (Radial)	Mg 279.079 {121} (Radial)	Na 589.592 {57} (Radial)	Sr 421.552 {80} (Radial)
Intensity average	209 cps	4 cps	1,003 cps	324 cps

	Ti 334.941 {101} (Radial)	V 292.402 {115} (Radial)	Co 228.616 {447} (Axial)	Ni 231.604 {446} (Axial)
Intensity average	22 cps	4 cps	26 cps	44 cps

	Pb 220.353 {453} (Axial)	Sn 189.989 {478} (Axial)	Tl 190.856 {477} (Axial)	As 189.042 {478} (Axial)
Intensity average	2 cps	15 cps	5 cps	3 cps

	Ba 233.527 {445} (Axial)	Mo 202.030 {467} (Axial)	S 182.034 {485} (Axial)	Si 251.611 {134} (Axial)
Intensity average	33 cps	18 cps	3 cps	402 cps

	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)	Cr 267.716 {126} (Axial)
Intensity average	11 cps	4 cps	65 cps	53 cps

	Mn 257.610 {131} (Axial)	Y 360.073 {94} (Radial)	Y 224.306 {450} (Axial)	In 230.606 {446} (Axial)
Intensity average	421 cps	4,746 cps	7,973 cps	2,809 cps

	Y 360.073 {94} (Axial)	Na 818.326 {41} (Radial)	Zn 206.200 {463} (Axial)	Cd 228.802 {447} (Axial)
Intensity average	130,680 cps	9 cps	103 cps	27 cps

	Cu 324.754 {104} (Radial)
Intensity average	21 cps

Comprehensive sample report

11/28/2014 10:10:14 PM

STD7 14J27631

Sample Type STD Analysis Date 11/28/2014 1:34:34 PM

Dilution Factor 1

	Al 308.215 {109} (Radial)	B 249.678 {135} (Radial)	Be 313.042 {108} (Radial)	Ca 317.933 {106} (Radial)
Concentration average	0.000 ppm	0.495 ppm	0.503 ppm	0.540 ppm
Concentration per Run 1	0.000 ppm	0.496 ppm	0.503 ppm	0.532 ppm
Concentration per Run 2	0.000 ppm	0.506 ppm	0.501 ppm	0.539 ppm
Concentration per Run 3	0.000 ppm	0.484 ppm	0.504 ppm	0.549 ppm
Concentration RSD		2.2 %	0.3 %	1.6 %
Concentration SD		0.0 ppm	0.0 ppm	0.0 ppm

	Ca 373.690 {90} (Radial)	Fe 259.940 {130} (Radial)	Fe 271.441 {124} (Radial)	K 766.490 {44} (Radial)
Concentration average	0.000 ppm	0.000 ppm	0.000 ppm	0.000 ppm
Concentration per Run 1	0.000 ppm	0.000 ppm	0.000 ppm	0.000 ppm
Concentration per Run 2	0.000 ppm	0.000 ppm	0.000 ppm	0.000 ppm
Concentration per Run 3	0.000 ppm	0.000 ppm	0.000 ppm	0.000 ppm
Concentration RSD				
Concentration SD				

	Li 670.784 {50} (Radial)	Mg 279.079 {121} (Radial)	Na 589.592 {57} (Radial)	Sr 421.552 {80} (Radial)
Concentration average	0.506 ppm	0.000 ppm	0.505 ppm	0.502 ppm
Concentration per Run 1	0.504 ppm	0.000 ppm	0.502 ppm	0.502 ppm
Concentration per Run 2	0.507 ppm	0.000 ppm	0.509 ppm	0.502 ppm
Concentration per Run 3	0.508 ppm	0.000 ppm	0.503 ppm	0.504 ppm
Concentration RSD	0.5 %		0.7 %	0.2 %
Concentration SD	0.0 ppm		0.0 ppm	0.0 ppm

	Ti 334.941 {101} (Radial)	V 292.402 {115} (Radial)	Co 228.616 {447} (Axial)	Ni 231.604 {446} (Axial)
Concentration average	0.503 ppm	0.509 ppm	0.492 ppm	0.489 ppm
Concentration per Run 1	0.504 ppm	0.508 ppm	0.491 ppm	0.488 ppm
Concentration per Run 2	0.503 ppm	0.504 ppm	0.493 ppm	0.491 ppm
Concentration per Run 3	0.504 ppm	0.515 ppm	0.493 ppm	0.489 ppm
Concentration RSD	0.2 %	1.1 %	0.2 %	0.3 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Pb 220.353 {453} (Axial)	Sn 189.989 {478} (Axial)	Tl 190.856 {477} (Axial)	As 189.042 {478} (Axial)
Concentration average	0.492 ppm	0.482 ppm	0.494 ppm	0.487 ppm
Concentration per Run 1	0.491 ppm	0.480 ppm	0.490 ppm	0.486 ppm
Concentration per Run 2	0.494 ppm	0.485 ppm	0.495 ppm	0.487 ppm
Concentration per Run 3	0.492 ppm	0.482 ppm	0.496 ppm	0.486 ppm
Concentration RSD	0.4 %	0.5 %	0.7 %	0.1 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Ba 233.527 {445} (Axial)	Mo 202.030 {467} (Axial)	S 182.034 {485} (Axial)	Si 251.611 {134} (Axial)
Concentration average	0.000 ppm	0.000 ppm	0.000 ppm	0.481 ppm
Concentration per Run 1	0.000 ppm	0.000 ppm	0.000 ppm	0.480 ppm
Concentration per Run 2	0.000 ppm	0.000 ppm	0.000 ppm	0.482 ppm
Concentration per Run 3	0.000 ppm	0.000 ppm	0.000 ppm	0.481 ppm
Concentration RSD				0.1 %
Concentration SD				0.0 ppm

	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)	Cr 267.716 {126} (Axial)
Concentration average	0.492 ppm	0.492 ppm	0.494 ppm	0.505 ppm
Concentration per Run 1	0.489 ppm	0.489 ppm	0.494 ppm	0.506 ppm
Concentration per Run 2	0.494 ppm	0.495 ppm	0.492 ppm	0.503 ppm
Concentration per Run 3	0.493 ppm	0.493 ppm	0.495 ppm	0.506 ppm
Concentration RSD	0.5 %	0.7 %	0.3 %	0.4 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Mn 257.610 {131} (Axial)	Y 360.073 {94} (Radial)	Y 224.306 {450} (Axial)	In 230.606 {446} (Axial)
Concentration average	0.504 ppm	100.288 %	100.890 %	99.660 %
Concentration per Run 1	0.504 ppm	99.882 %	101.230 %	99.925 %
Concentration per Run 2	0.503 ppm	100.458 %	100.842 %	99.554 %
Concentration per Run 3	0.506 ppm	100.525 %	100.598 %	99.501 %
Concentration RSD	0.3 %			
Concentration SD	0.0 ppm			

	Y 360.073 {94} (Axial)	Na 818.326 {41} (Radial)	Zn 206.200 {463} (Axial)	Cd 228.802 {447} (Axial)
Concentration average	100.513 %	0.000 ppm	0.498 ppm	0.494 ppm
Concentration per Run 1	100.640 %	0.000 ppm	0.498 ppm	0.493 ppm
Concentration per Run 2	100.694 %	0.000 ppm	0.499 ppm	0.494 ppm
Concentration per Run 3	100.205 %	0.000 ppm	0.498 ppm	0.495 ppm
Concentration RSD			0.2 %	0.2 %
Concentration SD			0.0 ppm	0.0 ppm

	Cu 324.754 {104} (Radial)
Concentration average	0.498 ppm
Concentration per Run 1	0.494 ppm
Concentration per Run 2	0.501 ppm
Concentration per Run 3	0.499 ppm
Concentration RSD	0.7 %
Concentration SD	0.0 ppm

	Al 308.215 {109} (Radial)	B 249.678 {135} (Radial)	Be 313.042 {108} (Radial)	Ca 317.933 {106} (Radial)
Intensity average	28 cps	104 cps	7,806 cps	174 cps

	Ca 373.690 {90} (Radial)	Fe 259.940 {130} (Radial)	Fe 271.441 {124} (Radial)	K 766.490 {44} (Radial)
Intensity average	108 cps	149 cps	11 cps	310 cps

	Li 670.784 {50} (Radial)	Mg 279.079 {121} (Radial)	Na 589.592 {57} (Radial)	Sr 421.552 {80} (Radial)
Intensity average	7,331 cps	20 cps	1,016 cps	16,118 cps

	Ti 334.941 {101} (Radial)	V 292.402 {115} (Radial)	Co 228.616 {447} (Axial)	Ni 231.604 {446} (Axial)
Intensity average	1,055 cps	229 cps	1,331 cps	925 cps

	Pb 220.353 {453} (Axial)	Sn 189.989 {478} (Axial)	Tl 190.856 {477} (Axial)	As 189.042 {478} (Axial)
Intensity average	322 cps	358 cps	241 cps	153 cps

	Ba 233.527 {445} (Axial)	Mo 202.030 {467} (Axial)	S 182.034 {485} (Axial)	Si 251.611 {134} (Axial)
Intensity average	2,925 cps	1,535 cps	93 cps	1,007 cps

	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)	Cr 267.716 {126} (Axial)
Intensity average	268 cps	140 cps	3,481 cps	2,559 cps

	Mn 257.610 {131} (Axial)	Y 360.073 {94} (Radial)	Y 224.306 {450} (Axial)	In 230.606 {446} (Axial)
Intensity average	19,979 cps	4,896 cps	8,005 cps	2,801 cps

	Y 360.073 {94} (Axial)	Na 818.326 {41} (Radial)	Zn 206.200 {463} (Axial)	Cd 228.802 {447} (Axial)
Intensity average	133,786 cps	10 cps	1,373 cps	2,164 cps

	Cu 324.754 {104} (Radial)
Intensity average	347 cps

Comprehensive sample report

11/28/2014 10:10:14 PM

STD2 14J08649

Sample Type STD Analysis Date 11/28/2014 1:38:47 PM

Dilution Factor 1

	Al 308.215 {109} (Radial)	B 249.678 {135} (Radial)	Be 313.042 {108} (Radial)	Ca 317.933 {106} (Radial)
Concentration average	0.000 ppm	0.991 ppm	0.985 ppm	1.061 ppm
Concentration per Run 1	0.000 ppm	1.019 ppm	1.012 ppm	1.089 ppm
Concentration per Run 2	0.000 ppm	0.925 ppm	0.925 ppm	0.987 ppm
Concentration per Run 3	0.000 ppm	1.029 ppm	1.018 ppm	1.106 ppm
Concentration RSD		5.8 %	5.3 %	6.1 %
Concentration SD		0.1 ppm	0.1 ppm	0.1 ppm

	Ca 373.690 {90} (Radial)	Fe 259.940 {130} (Radial)	Fe 271.441 {124} (Radial)	K 766.490 {44} (Radial)
Concentration average	0.000 ppm	1.003 ppm	0.000 ppm	0.000 ppm
Concentration per Run 1	0.000 ppm	1.039 ppm	0.000 ppm	0.000 ppm
Concentration per Run 2	0.000 ppm	0.931 ppm	0.000 ppm	0.000 ppm
Concentration per Run 3	0.000 ppm	1.038 ppm	0.000 ppm	0.000 ppm
Concentration RSD		6.2 %		
Concentration SD		0.1 ppm		

	Li 670.784 {50} (Radial)	Mg 279.079 {121} (Radial)	Na 589.592 {57} (Radial)	Sr 421.552 {80} (Radial)
Concentration average	0.988 ppm	0.000 ppm	0.988 ppm	0.987 ppm
Concentration per Run 1	1.016 ppm	0.000 ppm	1.016 ppm	1.013 ppm
Concentration per Run 2	0.934 ppm	0.000 ppm	0.930 ppm	0.930 ppm
Concentration per Run 3	1.014 ppm	0.000 ppm	1.019 ppm	1.018 ppm
Concentration RSD	4.7 %		5.1 %	5.0 %
Concentration SD	0.0 ppm		0.1 ppm	0.0 ppm

	Ti 334.941 {101} (Radial)	V 292.402 {115} (Radial)	Co 228.616 {447} (Axial)	Ni 231.604 {446} (Axial)
Concentration average	0.989 ppm	0.992 ppm	1.002 ppm	0.999 ppm
Concentration per Run 1	1.012 ppm	1.012 ppm	1.002 ppm	1.000 ppm
Concentration per Run 2	0.936 ppm	0.935 ppm	1.002 ppm	0.998 ppm
Concentration per Run 3	1.019 ppm	1.029 ppm	1.002 ppm	0.999 ppm
Concentration RSD	4.7 %	5.0 %	0.0 %	0.1 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Pb 220.353 {453} (Axial)	Sn 189.989 {478} (Axial)	Tl 190.856 {477} (Axial)	As 189.042 {478} (Axial)
Concentration average	1.004 ppm	0.988 ppm	1.003 ppm	0.996 ppm
Concentration per Run 1	1.006 ppm	0.988 ppm	1.007 ppm	0.993 ppm
Concentration per Run 2	1.002 ppm	0.988 ppm	1.002 ppm	0.999 ppm
Concentration per Run 3	1.004 ppm	0.988 ppm	1.000 ppm	0.994 ppm
Concentration RSD	0.2 %	0.0 %	0.4 %	0.3 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Ba 233.527 {445} (Axial)	Mo 202.030 {467} (Axial)	S 182.034 {485} (Axial)	Si 251.611 {134} (Axial)
Concentration average	1.054 ppm	1.027 ppm	0.940 ppm	0.988 ppm
Concentration per Run 1	1.056 ppm	1.030 ppm	0.938 ppm	0.987 ppm
Concentration per Run 2	1.053 ppm	1.027 ppm	0.941 ppm	0.995 ppm
Concentration per Run 3	1.052 ppm	1.026 ppm	0.941 ppm	0.982 ppm
Concentration RSD	0.2 %	0.2 %	0.2 %	0.7 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)	Cr 267.716 {126} (Axial)
Concentration average	1.004 ppm	1.004 ppm	1.003 ppm	1.022 ppm
Concentration per Run 1	1.007 ppm	1.010 ppm	1.001 ppm	1.021 ppm
Concentration per Run 2	1.003 ppm	1.003 ppm	1.004 ppm	1.021 ppm
Concentration per Run 3	1.002 ppm	0.999 ppm	1.003 ppm	1.024 ppm
Concentration RSD	0.2 %	0.5 %	0.2 %	0.1 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Mn 257.610 {131} (Axial)	Y 360.073 {94} (Radial)	Y 224.306 {450} (Axial)	In 230.606 {446} (Axial)
Concentration average	1.020 ppm	103.156 %	100.569 %	98.795 %
Concentration per Run 1	1.017 ppm	100.613 %	100.797 %	99.086 %
Concentration per Run 2	1.023 ppm	108.712 %	100.308 %	98.630 %
Concentration per Run 3	1.021 ppm	100.142 %	100.604 %	98.669 %
Concentration RSD	0.3 %			
Concentration SD	0.0 ppm			

	Y 360.073 {94} (Axial)	Na 818.326 {41} (Radial)	Zn 206.200 {463} (Axial)	Cd 228.802 {447} (Axial)
Concentration average	100.056 %	0.000 ppm	1.013 ppm	1.003 ppm
Concentration per Run 1	99.895 %	0.000 ppm	1.014 ppm	1.005 ppm
Concentration per Run 2	100.041 %	0.000 ppm	1.014 ppm	1.002 ppm
Concentration per Run 3	100.232 %	0.000 ppm	1.012 ppm	1.002 ppm
Concentration RSD			0.2 %	0.2 %
Concentration SD			0.0 ppm	0.0 ppm

	Cu 324.754 {104} (Radial)
Concentration average	0.983 ppm
Concentration per Run 1	1.010 ppm
Concentration per Run 2	0.928 ppm
Concentration per Run 3	1.013 ppm
Concentration RSD	4.9 %
Concentration SD	0.0 ppm

	Al 308.215 {109} (Radial)	B 249.678 {135} (Radial)	Be 313.042 {108} (Radial)	Ca 317.933 {106} (Radial)
Intensity average	52 cps	212 cps	15,704 cps	342 cps

	Ca 373.690 {90} (Radial)	Fe 259.940 {130} (Radial)	Fe 271.441 {124} (Radial)	K 766.490 {44} (Radial)
Intensity average	210 cps	296 cps	21 cps	603 cps

	Li 670.784 {50} (Radial)	Mg 279.079 {121} (Radial)	Na 589.592 {57} (Radial)	Sr 421.552 {80} (Radial)
Intensity average	14,708 cps	40 cps	2,018 cps	32,519 cps

	Ti 334.941 {101} (Radial)	V 292.402 {115} (Radial)	Co 228.616 {447} (Axial)	Ni 231.604 {446} (Axial)
Intensity average	2,130 cps	459 cps	2,686 cps	1,873 cps

	Pb 220.353 {453} (Axial)	Sn 189.989 {478} (Axial)	Tl 190.856 {477} (Axial)	As 189.042 {478} (Axial)
Intensity average	654 cps	726 cps	492 cps	315 cps

	Ba 233.527 {445} (Axial)	Mo 202.030 {467} (Axial)	S 182.034 {485} (Axial)	Si 251.611 {134} (Axial)
Intensity average	5,878 cps	3,090 cps	187 cps	2,043 cps

	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)	Cr 267.716 {126} (Axial)
Intensity average	545 cps	287 cps	7,037 cps	5,154 cps

	Mn 257.610 {131} (Axial)	Y 360.073 {94} (Radial)	Y 224.306 {450} (Axial)	In 230.606 {446} (Axial)
Intensity average	40,221 cps	5,036 cps	7,980 cps	2,777 cps

	Y 360.073 {94} (Axial)	Na 818.326 {41} (Radial)	Zn 206.200 {463} (Axial)	Cd 228.802 {447} (Axial)
Intensity average	133,178 cps	55 cps	2,783 cps	4,375 cps

	Cu 324.754 {104} (Radial)
Intensity average	695 cps

STD3 14J06521

Sample Type STD Analysis Date 11/28/2014 1:42:57 PM

Dilution Factor 1

	Al 308.215 {109} (Radial)	B 249.678 {135} (Radial)	Be 313.042 {108} (Radial)	Ca 317.933 {106} (Radial)
Concentration average	0.000 ppm	2.005 ppm	2.007 ppm	2.035 ppm
Concentration per Run 1	0.000 ppm	1.983 ppm	2.004 ppm	2.026 ppm
Concentration per Run 2	0.000 ppm	2.000 ppm	2.011 ppm	2.043 ppm
Concentration per Run 3	0.000 ppm	2.032 ppm	2.005 ppm	2.038 ppm
Concentration RSD		1.3 %	0.2 %	0.4 %
Concentration SD		0.0 ppm	0.0 ppm	0.0 ppm

	Ca 373.690 {90} (Radial)	Fe 259.940 {130} (Radial)	Fe 271.441 {124} (Radial)	K 766.490 {44} (Radial)
Concentration average	0.000 ppm	2.018 ppm	0.000 ppm	0.000 ppm
Concentration per Run 1	0.000 ppm	2.021 ppm	0.000 ppm	0.000 ppm
Concentration per Run 2	0.000 ppm	2.032 ppm	0.000 ppm	0.000 ppm
Concentration per Run 3	0.000 ppm	2.001 ppm	0.000 ppm	0.000 ppm
Concentration RSD		0.8 %		
Concentration SD		0.0 ppm		

	Li 670.784 {50} (Radial)	Mg 279.079 {121} (Radial)	Na 589.592 {57} (Radial)	Sr 421.552 {80} (Radial)
Concentration average	2.004 ppm	0.000 ppm	1.999 ppm	2.006 ppm
Concentration per Run 1	2.015 ppm	0.000 ppm	2.008 ppm	2.012 ppm
Concentration per Run 2	2.001 ppm	0.000 ppm	2.005 ppm	2.005 ppm
Concentration per Run 3	1.997 ppm	0.000 ppm	1.985 ppm	2.001 ppm
Concentration RSD	0.5 %		0.6 %	0.3 %
Concentration SD	0.0 ppm		0.0 ppm	0.0 ppm

	Ti 334.941 {101} (Radial)	V 292.402 {115} (Radial)	Co 228.616 {447} (Axial)	Ni 231.604 {446} (Axial)
Concentration average	2.005 ppm	2.002 ppm	2.001 ppm	2.003 ppm
Concentration per Run 1	2.001 ppm	1.995 ppm	2.007 ppm	2.009 ppm
Concentration per Run 2	2.010 ppm	2.006 ppm	1.999 ppm	2.005 ppm
Concentration per Run 3	2.003 ppm	2.004 ppm	1.998 ppm	1.995 ppm
Concentration RSD	0.2 %	0.3 %	0.2 %	0.4 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Pb 220.353 {453} (Axial)	Sn 189.989 {478} (Axial)	Tl 190.856 {477} (Axial)	As 189.042 {478} (Axial)
Concentration average	0.000 ppm	2.011 ppm	0.000 ppm	2.006 ppm
Concentration per Run 1	0.000 ppm	2.020 ppm	0.000 ppm	2.003 ppm
Concentration per Run 2	0.000 ppm	2.008 ppm	0.000 ppm	2.009 ppm
Concentration per Run 3	0.000 ppm	2.003 ppm	0.000 ppm	2.005 ppm
Concentration RSD		0.4 %		0.2 %
Concentration SD		0.0 ppm		0.0 ppm

	Ba 233.527 {445} (Axial)	Mo 202.030 {467} (Axial)	S 182.034 {485} (Axial)	Si 251.611 {134} (Axial)
Concentration average	2.059 ppm	1.986 ppm	1.956 ppm	2.012 ppm
Concentration per Run 1	2.061 ppm	1.986 ppm	1.957 ppm	2.010 ppm
Concentration per Run 2	2.059 ppm	1.986 ppm	1.957 ppm	2.013 ppm
Concentration per Run 3	2.058 ppm	1.987 ppm	1.954 ppm	2.011 ppm
Concentration RSD	0.1 %	0.0 %	0.1 %	0.1 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)	Cr 267.716 {126} (Axial)
Concentration average	0.000 ppm	0.000 ppm	0.000 ppm	1.988 ppm
Concentration per Run 1	0.000 ppm	0.000 ppm	0.000 ppm	1.979 ppm
Concentration per Run 2	0.000 ppm	0.000 ppm	0.000 ppm	2.001 ppm
Concentration per Run 3	0.000 ppm	0.000 ppm	0.000 ppm	1.984 ppm
Concentration RSD				0.6 %
Concentration SD				0.0 ppm

	Mn 257.610 {131} (Axial)	Y 360.073 {94} (Radial)	Y 224.306 {450} (Axial)	In 230.606 {446} (Axial)
Concentration average	1.989 ppm	102.108 %	101.674 %	98.552 %
Concentration per Run 1	1.986 ppm	102.570 %	102.270 %	98.906 %
Concentration per Run 2	1.994 ppm	101.614 %	101.406 %	98.425 %
Concentration per Run 3	1.986 ppm	102.140 %	101.345 %	98.326 %
Concentration RSD	0.2 %			
Concentration SD	0.0 ppm			

	Y 360.073 {94} (Axial)	Na 818.326 {41} (Radial)	Zn 206.200 {463} (Axial)	Cd 228.802 {447} (Axial)
Concentration average	100.505 %	0.000 ppm	1.994 ppm	0.000 ppm
Concentration per Run 1	100.317 %	0.000 ppm	2.004 ppm	0.000 ppm
Concentration per Run 2	100.511 %	0.000 ppm	1.991 ppm	0.000 ppm
Concentration per Run 3	100.687 %	0.000 ppm	1.986 ppm	0.000 ppm
Concentration RSD			0.5 %	
Concentration SD			0.0 ppm	

	Cu 324.754 {104} (Radial)
Concentration average	2.009 ppm
Concentration per Run 1	2.012 ppm
Concentration per Run 2	2.007 ppm
Concentration per Run 3	2.008 ppm
Concentration RSD	0.1 %
Concentration SD	0.0 ppm

	Al 308.215 {109} (Radial)	B 249.678 {135} (Radial)	Be 313.042 {108} (Radial)	Ca 317.933 {106} (Radial)
Intensity average	99 cps	425 cps	31,722 cps	643 cps

	Ca 373.690 {90} (Radial)	Fe 259.940 {130} (Radial)	Fe 271.441 {124} (Radial)	K 766.490 {44} (Radial)
Intensity average	388 cps	590 cps	43 cps	1,179 cps

	Li 670.784 {50} (Radial)	Mg 279.079 {121} (Radial)	Na 589.592 {57} (Radial)	Sr 421.552 {80} (Radial)
Intensity average	29,586 cps	81 cps	4,022 cps	65,521 cps

	Ti 334.941 {101} (Radial)	V 292.402 {115} (Radial)	Co 228.616 {447} (Axial)	Ni 231.604 {446} (Axial)
Intensity average	4,280 cps	917 cps	5,354 cps	3,745 cps

	Pb 220.353 {453} (Axial)	Sn 189.989 {478} (Axial)	Tl 190.856 {477} (Axial)	As 189.042 {478} (Axial)
Intensity average	1,340 cps	1,474 cps	1,020 cps	645 cps

	Ba 233.527 {445} (Axial)	Mo 202.030 {467} (Axial)	S 182.034 {485} (Axial)	Si 251.611 {134} (Axial)
Intensity average	11,612 cps	6,036 cps	390 cps	4,162 cps

	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)	Cr 267.716 {126} (Axial)
Intensity average	1,106 cps	593 cps	14,352 cps	10,068 cps

	Mn 257.610 {131} (Axial)	Y 360.073 {94} (Radial)	Y 224.306 {450} (Axial)	In 230.606 {446} (Axial)
Intensity average	78,751 cps	4,985 cps	8,067 cps	2,770 cps

	Y 360.073 {94} (Axial)	Na 818.326 {41} (Radial)	Zn 206.200 {463} (Axial)	Cd 228.802 {447} (Axial)
Intensity average	133,776 cps	162 cps	5,537 cps	8,901 cps

	Cu 324.754 {104} (Radial)
Intensity average	1,399 cps

Comprehensive sample report

11/28/2014 10:10:14 PM

STD4 14J27630

Sample Type STD Analysis Date 11/28/2014 1:47:23 PM

Dilution Factor 1

	Al 308.215 {109} (Radial)	B 249.678 {135} (Radial)	Be 313.042 {108} (Radial)	Ca 317.933 {106} (Radial)
Concentration average	9.984 ppm	0.000 ppm	0.000 ppm	9.982 ppm
Concentration per Run 1	9.951 ppm	0.000 ppm	0.000 ppm	10.050 ppm
Concentration per Run 2	10.009 ppm	0.000 ppm	0.000 ppm	9.989 ppm
Concentration per Run 3	9.992 ppm	0.000 ppm	0.000 ppm	9.906 ppm
Concentration RSD	0.3 %			0.7 %
Concentration SD	0.0 ppm			0.1 ppm

	Ca 373.690 {90} (Radial)	Fe 259.940 {130} (Radial)	Fe 271.441 {124} (Radial)	K 766.490 {44} (Radial)
Concentration average	10.558 ppm	9.996 ppm	11.005 ppm	9.933 ppm
Concentration per Run 1	10.669 ppm	10.050 ppm	11.136 ppm	9.919 ppm
Concentration per Run 2	10.514 ppm	10.000 ppm	11.027 ppm	9.967 ppm
Concentration per Run 3	10.490 ppm	9.938 ppm	10.851 ppm	9.913 ppm
Concentration RSD	0.9 %	0.6 %	1.3 %	0.3 %
Concentration SD	0.1 ppm	0.1 ppm	0.1 ppm	0.0 ppm

	Li 670.784 {50} (Radial)	Mg 279.079 {121} (Radial)	Na 589.592 {57} (Radial)	Sr 421.552 {80} (Radial)
Concentration average	0.000 ppm	9.981 ppm	10.000 ppm	0.000 ppm
Concentration per Run 1	0.000 ppm	10.057 ppm	10.000 ppm	0.000 ppm
Concentration per Run 2	0.000 ppm	9.985 ppm	10.027 ppm	0.000 ppm
Concentration per Run 3	0.000 ppm	9.900 ppm	9.973 ppm	0.000 ppm
Concentration RSD		0.8 %	0.3 %	
Concentration SD		0.1 ppm	0.0 ppm	

	Ti 334.941 {101} (Radial)	V 292.402 {115} (Radial)	Co 228.616 {447} (Axial)	Ni 231.604 {446} (Axial)
Concentration average	0.000 ppm	0.000 ppm	0.000 ppm	0.000 ppm
Concentration per Run 1	0.000 ppm	0.000 ppm	0.000 ppm	0.000 ppm
Concentration per Run 2	0.000 ppm	0.000 ppm	0.000 ppm	0.000 ppm
Concentration per Run 3	0.000 ppm	0.000 ppm	0.000 ppm	0.000 ppm
Concentration RSD				
Concentration SD				

	Pb 220.353 {453} (Axial)	Sn 189.989 {478} (Axial)	Tl 190.856 {477} (Axial)	As 189.042 {478} (Axial)
Concentration average	0.000 ppm	0.000 ppm	0.000 ppm	0.000 ppm
Concentration per Run 1	0.000 ppm	0.000 ppm	0.000 ppm	0.000 ppm
Concentration per Run 2	0.000 ppm	0.000 ppm	0.000 ppm	0.000 ppm
Concentration per Run 3	0.000 ppm	0.000 ppm	0.000 ppm	0.000 ppm
Concentration RSD				
Concentration SD				

	Ba 233.527 {445} (Axial)	Mo 202.030 {467} (Axial)	S 182.034 {485} (Axial)	Si 251.611 {134} (Axial)
Concentration average	9.983 ppm	0.000 ppm	10.259 ppm	0.000 ppm
Concentration per Run 1	10.008 ppm	0.000 ppm	10.288 ppm	0.000 ppm
Concentration per Run 2	10.030 ppm	0.000 ppm	10.305 ppm	0.000 ppm
Concentration per Run 3	9.910 ppm	0.000 ppm	10.184 ppm	0.000 ppm
Concentration RSD	0.6 %		0.6 %	
Concentration SD	0.1 ppm		0.1 ppm	

	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)	Cr 267.716 {126} (Axial)
Concentration average	0.000 ppm	0.000 ppm	0.000 ppm	0.000 ppm
Concentration per Run 1	0.000 ppm	0.000 ppm	0.000 ppm	0.000 ppm
Concentration per Run 2	0.000 ppm	0.000 ppm	0.000 ppm	0.000 ppm
Concentration per Run 3	0.000 ppm	0.000 ppm	0.000 ppm	0.000 ppm
Concentration RSD				
Concentration SD				

	Mn 257.610 {131} (Axial)	Y 360.073 {94} (Radial)	Y 224.306 {450} (Axial)	In 230.606 {446} (Axial)
Concentration average	0.000 ppm	102.455 %	99.989 %	96.137 %
Concentration per Run 1	0.000 ppm	102.058 %	100.311 %	96.368 %
Concentration per Run 2	0.000 ppm	102.697 %	99.271 %	95.513 %
Concentration per Run 3	0.000 ppm	102.609 %	100.384 %	96.528 %
Concentration RSD				
Concentration SD				

	Y 360.073 {94} (Axial)	Na 818.326 {41} (Radial)	Zn 206.200 {463} (Axial)	Cd 228.802 {447} (Axial)
Concentration average	98.556 %	10.427 ppm	0.000 ppm	0.000 ppm
Concentration per Run 1	98.625 %	10.383 ppm	0.000 ppm	0.000 ppm
Concentration per Run 2	98.897 %	10.492 ppm	0.000 ppm	0.000 ppm
Concentration per Run 3	98.146 %	10.406 ppm	0.000 ppm	0.000 ppm
Concentration RSD		0.6 %		
Concentration SD		0.1 ppm		

	Cu 324.754 {104} (Radial)
Concentration average	0.000 ppm
Concentration per Run 1	0.000 ppm
Concentration per Run 2	0.000 ppm
Concentration per Run 3	0.000 ppm
Concentration RSD	
Concentration SD	

	Al 308.215 {109} (Radial)	B 249.678 {135} (Radial)	Be 313.042 {108} (Radial)	Ca 317.933 {106} (Radial)
Intensity average	488 cps	0 cps	6 cps	3,128 cps

	Ca 373.690 {90} (Radial)	Fe 259.940 {130} (Radial)	Fe 271.441 {124} (Radial)	K 766.490 {44} (Radial)
Intensity average	1,876 cps	2,928 cps	189 cps	5,879 cps

	Li 670.784 {50} (Radial)	Mg 279.079 {121} (Radial)	Na 589.592 {57} (Radial)	Sr 421.552 {80} (Radial)
Intensity average	11 cps	419 cps	20,083 cps	20 cps

	Ti 334.941 {101} (Radial)	V 292.402 {115} (Radial)	Co 228.616 {447} (Axial)	Ni 231.604 {446} (Axial)
Intensity average	5 cps	1 cps	-2 cps	0 cps

	Pb 220.353 {453} (Axial)	Sn 189.989 {478} (Axial)	Tl 190.856 {477} (Axial)	As 189.042 {478} (Axial)
Intensity average	0 cps	1 cps	-2 cps	-3 cps

	Ba 233.527 {445} (Axial)	Mo 202.030 {467} (Axial)	S 182.034 {485} (Axial)	Si 251.611 {134} (Axial)
Intensity average	55,356 cps	3 cps	1,996 cps	20,748 cps

	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)	Cr 267.716 {126} (Axial)
Intensity average	0 cps	-1 cps	-1 cps	1 cps

	Mn 257.610 {131} (Axial)	Y 360.073 {94} (Radial)	Y 224.306 {450} (Axial)	In 230.606 {446} (Axial)
Intensity average	32 cps	5,001 cps	7,934 cps	2,702 cps

	Y 360.073 {94} (Axial)	Na 818.326 {41} (Radial)	Zn 206.200 {463} (Axial)	Cd 228.802 {447} (Axial)
Intensity average	131,181 cps	923 cps	2 cps	-6 cps

	Cu 324.754 {104} (Radial)
Intensity average	8 cps

Comprehensive sample report

11/28/2014 10:10:14 PM

STD5 14J08650

Sample Type STD Analysis Date 11/28/2014 1:51:58 PM

Dilution Factor 1

	Al 308.215 {109} (Radial)	B 249.678 {135} (Radial)	Be 313.042 {108} (Radial)	Ca 317.933 {106} (Radial)
Concentration average	250.510 ppm	0.000 ppm	0.000 ppm	0.000 ppm
Concentration per Run 1	250.859 ppm	0.000 ppm	0.000 ppm	0.000 ppm
Concentration per Run 2	250.436 ppm	0.000 ppm	0.000 ppm	0.000 ppm
Concentration per Run 3	250.235 ppm	0.000 ppm	0.000 ppm	0.000 ppm
Concentration RSD	0.1 %			
Concentration SD	0.3 ppm			

	Ca 373.690 {90} (Radial)	Fe 259.940 {130} (Radial)	Fe 271.441 {124} (Radial)	K 766.490 {44} (Radial)
Concentration average	253.659 ppm	0.000 ppm	102.953 ppm	49.815 ppm
Concentration per Run 1	253.833 ppm	0.000 ppm	102.852 ppm	49.665 ppm
Concentration per Run 2	253.477 ppm	0.000 ppm	102.524 ppm	49.740 ppm
Concentration per Run 3	253.667 ppm	0.000 ppm	103.483 ppm	50.041 ppm
Concentration RSD	0.1 %		0.5 %	0.4 %
Concentration SD	0.2 ppm		0.5 ppm	0.2 ppm

	Li 670.784 {50} (Radial)	Mg 279.079 {121} (Radial)	Na 589.592 {57} (Radial)	Sr 421.552 {80} (Radial)
Concentration average	0.000 ppm	252.382 ppm	0.000 ppm	0.000 ppm
Concentration per Run 1	0.000 ppm	252.442 ppm	0.000 ppm	0.000 ppm
Concentration per Run 2	0.000 ppm	251.914 ppm	0.000 ppm	0.000 ppm
Concentration per Run 3	0.000 ppm	252.791 ppm	0.000 ppm	0.000 ppm
Concentration RSD		0.2 %		
Concentration SD		0.4 ppm		

	Ti 334.941 {101} (Radial)	V 292.402 {115} (Radial)	Co 228.616 {447} (Axial)	Ni 231.604 {446} (Axial)
Concentration average	0.000 ppm	0.000 ppm	0.000 ppm	0.000 ppm
Concentration per Run 1	0.000 ppm	0.000 ppm	0.000 ppm	0.000 ppm
Concentration per Run 2	0.000 ppm	0.000 ppm	0.000 ppm	0.000 ppm
Concentration per Run 3	0.000 ppm	0.000 ppm	0.000 ppm	0.000 ppm
Concentration RSD				
Concentration SD				

	Pb 220.353 {453} (Axial)	Sn 189.989 {478} (Axial)	Tl 190.856 {477} (Axial)	As 189.042 {478} (Axial)
Concentration average	0.000 ppm	0.000 ppm	0.000 ppm	0.000 ppm
Concentration per Run 1	0.000 ppm	0.000 ppm	0.000 ppm	0.000 ppm
Concentration per Run 2	0.000 ppm	0.000 ppm	0.000 ppm	0.000 ppm
Concentration per Run 3	0.000 ppm	0.000 ppm	0.000 ppm	0.000 ppm
Concentration RSD				
Concentration SD				

	Ba 233.527 {445} (Axial)	Mo 202.030 {467} (Axial)	S 182.034 {485} (Axial)	Si 251.611 {134} (Axial)
Concentration average	0.000 ppm	0.000 ppm	49.887 ppm	0.000 ppm
Concentration per Run 1	0.000 ppm	0.000 ppm	49.348 ppm	0.000 ppm
Concentration per Run 2	0.000 ppm	0.000 ppm	50.958 ppm	0.000 ppm
Concentration per Run 3	0.000 ppm	0.000 ppm	49.356 ppm	0.000 ppm
Concentration RSD			1.9 %	
Concentration SD			0.9 ppm	

	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)	Cr 267.716 {126} (Axial)
Concentration average	0.000 ppm	0.000 ppm	0.000 ppm	0.000 ppm
Concentration per Run 1	0.000 ppm	0.000 ppm	0.000 ppm	0.000 ppm
Concentration per Run 2	0.000 ppm	0.000 ppm	0.000 ppm	0.000 ppm
Concentration per Run 3	0.000 ppm	0.000 ppm	0.000 ppm	0.000 ppm
Concentration RSD				
Concentration SD				

	Mn 257.610 {131} (Axial)	Y 360.073 {94} (Radial)	Y 224.306 {450} (Axial)	In 230.606 {446} (Axial)
Concentration average	0.000 ppm	95.481 %	86.801 %	73.259 %
Concentration per Run 1	0.000 ppm	95.322 %	87.151 %	73.647 %
Concentration per Run 2	0.000 ppm	95.529 %	85.593 %	72.201 %
Concentration per Run 3	0.000 ppm	95.594 %	87.658 %	73.929 %
Concentration RSD				
Concentration SD				

	Y 360.073 {94} (Axial)	Na 818.326 {41} (Radial)	Zn 206.200 {463} (Axial)	Cd 228.802 {447} (Axial)
Concentration average	86.524 %	251.441 ppm	0.000 ppm	0.000 ppm
Concentration per Run 1	86.757 %	250.740 ppm	0.000 ppm	0.000 ppm
Concentration per Run 2	86.209 %	250.772 ppm	0.000 ppm	0.000 ppm
Concentration per Run 3	86.605 %	252.811 ppm	0.000 ppm	0.000 ppm
Concentration RSD		0.5 %		
Concentration SD		1.2 ppm		

	Cu 324.754 {104} (Radial)
Concentration average	0.000 ppm
Concentration per Run 1	0.000 ppm
Concentration per Run 2	0.000 ppm
Concentration per Run 3	0.000 ppm
Concentration RSD	
Concentration SD	

	Al 308.215 {109} (Radial)	B 249.678 {135} (Radial)	Be 313.042 {108} (Radial)	Ca 317.933 {106} (Radial)
Intensity average	11,289 cps	-1 cps	1 cps	68,401 cps

	Ca 373.690 {90} (Radial)	Fe 259.940 {130} (Radial)	Fe 271.441 {124} (Radial)	K 766.490 {44} (Radial)
Intensity average	41,776 cps	25,131 cps	1,642 cps	27,401 cps

	Li 670.784 {50} (Radial)	Mg 279.079 {121} (Radial)	Na 589.592 {57} (Radial)	Sr 421.552 {80} (Radial)
Intensity average	30 cps	9,853 cps	443,473 cps	119 cps

	Ti 334.941 {101} (Radial)	V 292.402 {115} (Radial)	Co 228.616 {447} (Axial)	Ni 231.604 {446} (Axial)
Intensity average	40 cps	1 cps	3 cps	-10 cps

	Pb 220.353 {453} (Axial)	Sn 189.989 {478} (Axial)	Tl 190.856 {477} (Axial)	As 189.042 {478} (Axial)
Intensity average	-7 cps	1 cps	-3 cps	-6 cps

	Ba 233.527 {445} (Axial)	Mo 202.030 {467} (Axial)	S 182.034 {485} (Axial)	Si 251.611 {134} (Axial)
Intensity average	9 cps	2 cps	8,413 cps	18 cps

	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)	Cr 267.716 {126} (Axial)
Intensity average	0 cps	-1 cps	-4 cps	8 cps

	Mn 257.610 {131} (Axial)	Y 360.073 {94} (Radial)	Y 224.306 {450} (Axial)	In 230.606 {446} (Axial)
Intensity average	241 cps	4,661 cps	6,887 cps	2,059 cps

	Y 360.073 {94} (Axial)	Na 818.326 {41} (Radial)	Zn 206.200 {463} (Axial)	Cd 228.802 {447} (Axial)
Intensity average	115,166 cps	21,784 cps	9 cps	-1 cps

	Cu 324.754 {104} (Radial)
Intensity average	9 cps

STD6 14I24985

Sample Type STD Analysis Date 11/28/2014 1:56:32 PM

Dilution Factor 1

	Al 308.215 {109} (Radial)	B 249.678 {135} (Radial)	Be 313.042 {108} (Radial)	Ca 317.933 {106} (Radial)
Concentration average	499.745 ppm	0.000 ppm	0.000 ppm	0.000 ppm
Concentration per Run 1	499.729 ppm	0.000 ppm	0.000 ppm	0.000 ppm
Concentration per Run 2	499.345 ppm	0.000 ppm	0.000 ppm	0.000 ppm
Concentration per Run 3	500.161 ppm	0.000 ppm	0.000 ppm	0.000 ppm
Concentration RSD	0.1 %			
Concentration SD	0.4 ppm			

	Ca 373.690 {90} (Radial)	Fe 259.940 {130} (Radial)	Fe 271.441 {124} (Radial)	K 766.490 {44} (Radial)
Concentration average	498.159 ppm	0.000 ppm	198.473 ppm	100.099 ppm
Concentration per Run 1	500.979 ppm	0.000 ppm	200.248 ppm	100.340 ppm
Concentration per Run 2	494.816 ppm	0.000 ppm	197.086 ppm	99.954 ppm
Concentration per Run 3	498.682 ppm	0.000 ppm	198.087 ppm	100.004 ppm
Concentration RSD	0.6 %		0.8 %	0.2 %
Concentration SD	3.1 ppm		1.6 ppm	0.2 ppm

	Li 670.784 {50} (Radial)	Mg 279.079 {121} (Radial)	Na 589.592 {57} (Radial)	Sr 421.552 {80} (Radial)
Concentration average	0.000 ppm	498.809 ppm	0.000 ppm	0.000 ppm
Concentration per Run 1	0.000 ppm	502.634 ppm	0.000 ppm	0.000 ppm
Concentration per Run 2	0.000 ppm	495.359 ppm	0.000 ppm	0.000 ppm
Concentration per Run 3	0.000 ppm	498.435 ppm	0.000 ppm	0.000 ppm
Concentration RSD		0.7 %		
Concentration SD		3.7 ppm		

	Ti 334.941 {101} (Radial)	V 292.402 {115} (Radial)	Co 228.616 {447} (Axial)	Ni 231.604 {446} (Axial)
Concentration average	0.000 ppm	0.000 ppm	0.000 ppm	0.000 ppm
Concentration per Run 1	0.000 ppm	0.000 ppm	0.000 ppm	0.000 ppm
Concentration per Run 2	0.000 ppm	0.000 ppm	0.000 ppm	0.000 ppm
Concentration per Run 3	0.000 ppm	0.000 ppm	0.000 ppm	0.000 ppm
Concentration RSD				
Concentration SD				

	Pb 220.353 {453} (Axial)	Sn 189.989 {478} (Axial)	Tl 190.856 {477} (Axial)	As 189.042 {478} (Axial)
Concentration average	0.000 ppm	0.000 ppm	0.000 ppm	0.000 ppm
Concentration per Run 1	0.000 ppm	0.000 ppm	0.000 ppm	0.000 ppm
Concentration per Run 2	0.000 ppm	0.000 ppm	0.000 ppm	0.000 ppm
Concentration per Run 3	0.000 ppm	0.000 ppm	0.000 ppm	0.000 ppm
Concentration RSD				
Concentration SD				

	Ba 233.527 {445} (Axial)	Mo 202.030 {467} (Axial)	S 182.034 {485} (Axial)	Si 251.611 {134} (Axial)
Concentration average	0.000 ppm	0.000 ppm	100.282 ppm	0.000 ppm
Concentration per Run 1	0.000 ppm	0.000 ppm	100.306 ppm	0.000 ppm
Concentration per Run 2	0.000 ppm	0.000 ppm	100.329 ppm	0.000 ppm
Concentration per Run 3	0.000 ppm	0.000 ppm	100.211 ppm	0.000 ppm
Concentration RSD			0.1 %	
Concentration SD			0.1 ppm	

	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)	Cr 267.716 {126} (Axial)
Concentration average	0.000 ppm	0.000 ppm	0.000 ppm	0.000 ppm
Concentration per Run 1	0.000 ppm	0.000 ppm	0.000 ppm	0.000 ppm
Concentration per Run 2	0.000 ppm	0.000 ppm	0.000 ppm	0.000 ppm
Concentration per Run 3	0.000 ppm	0.000 ppm	0.000 ppm	0.000 ppm
Concentration RSD				
Concentration SD				

	Mn 257.610 {131} (Axial)	Y 360.073 {94} (Radial)	Y 224.306 {450} (Axial)	In 230.606 {446} (Axial)
Concentration average	0.000 ppm	95.306 %	84.185 %	67.952 %
Concentration per Run 1	0.000 ppm	95.171 %	84.651 %	68.247 %
Concentration per Run 2	0.000 ppm	95.812 %	84.272 %	68.009 %
Concentration per Run 3	0.000 ppm	94.935 %	83.632 %	67.599 %
Concentration RSD				
Concentration SD				

	Y 360.073 {94} (Axial)	Na 818.326 {41} (Radial)	Zn 206.200 {463} (Axial)	Cd 228.802 {447} (Axial)
Concentration average	83.578 %	499.271 ppm	0.000 ppm	0.000 ppm
Concentration per Run 1	83.834 %	499.922 ppm	0.000 ppm	0.000 ppm
Concentration per Run 2	83.369 %	498.542 ppm	0.000 ppm	0.000 ppm
Concentration per Run 3	83.532 %	499.349 ppm	0.000 ppm	0.000 ppm
Concentration RSD		0.1 %		
Concentration SD		0.7 ppm		

	Cu 324.754 {104} (Radial)
Concentration average	0.000 ppm
Concentration per Run 1	0.000 ppm
Concentration per Run 2	0.000 ppm
Concentration per Run 3	0.000 ppm
Concentration RSD	
Concentration SD	

	Al 308.215 {109} (Radial)	B 249.678 {135} (Radial)	Be 313.042 {108} (Radial)	Ca 317.933 {106} (Radial)
Intensity average	22,473 cps	-4 cps	1 cps	130,721 cps

	Ca 373.690 {90} (Radial)	Fe 259.940 {130} (Radial)	Fe 271.441 {124} (Radial)	K 766.490 {44} (Radial)
Intensity average	81,883 cps	47,220 cps	3,160 cps	54,938 cps

	Li 670.784 {50} (Radial)	Mg 279.079 {121} (Radial)	Na 589.592 {57} (Radial)	Sr 421.552 {80} (Radial)
Intensity average	79 cps	19,437 cps	825,142 cps	232 cps

	Ti 334.941 {101} (Radial)	V 292.402 {115} (Radial)	Co 228.616 {447} (Axial)	Ni 231.604 {446} (Axial)
Intensity average	48 cps	2 cps	6 cps	-22 cps

	Pb 220.353 {453} (Axial)	Sn 189.989 {478} (Axial)	Tl 190.856 {477} (Axial)	As 189.042 {478} (Axial)
Intensity average	-12 cps	1 cps	-1 cps	-8 cps

	Ba 233.527 {445} (Axial)	Mo 202.030 {467} (Axial)	S 182.034 {485} (Axial)	Si 251.611 {134} (Axial)
Intensity average	14 cps	1 cps	16,402 cps	17 cps

	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)	Cr 267.716 {126} (Axial)
Intensity average	-1 cps	1 cps	-5 cps	9 cps

	Mn 257.610 {131} (Axial)	Y 360.073 {94} (Radial)	Y 224.306 {450} (Axial)	In 230.606 {446} (Axial)
Intensity average	426 cps	4,653 cps	6,680 cps	1,910 cps

	Y 360.073 {94} (Axial)	Na 818.326 {41} (Radial)	Zn 206.200 {463} (Axial)	Cd 228.802 {447} (Axial)
Intensity average	111,246 cps	43,219 cps	10 cps	-8 cps

	Cu 324.754 {104} (Radial)
Intensity average	10 cps

Comprehensive sample report

11/28/2014 10:10:14 PM

ICV 14I23903

Sample Type QC Analysis Date 11/28/2014 2:00:10 PM

Dilution Factor 1

	Al 308.215 {109} (Radial)	B 249.678 {135} (Radial)	Be 313.042 {108} (Radial)	Ca 317.933 {106} (Radial)
Concentration average	10.901 ppm	1.088 ppm	1.086 ppm	10.917 ppm
Concentration per Run 1	11.064 ppm	1.093 ppm	1.101 ppm	11.101 ppm
Concentration per Run 2	10.923 ppm	1.083 ppm	1.090 ppm	10.938 ppm
Concentration per Run 3	10.717 ppm	1.087 ppm	1.067 ppm	10.713 ppm
Concentration RSD	1.6 %	0.5 %	1.6 %	1.8 %
Concentration SD	0.2 ppm	0.0 ppm	0.0 ppm	0.2 ppm

	Ca 373.690 {90} (Radial)	Fe 259.940 {130} (Radial)	Fe 271.441 {124} (Radial)	K 766.490 {44} (Radial)
Concentration average	11.665 ppm	10.985 ppm	12.221 ppm	10.620 ppm
Concentration per Run 1	11.882 ppm	11.174 ppm	12.579 ppm	10.778 ppm
Concentration per Run 2	11.743 ppm	10.998 ppm	12.068 ppm	10.634 ppm
Concentration per Run 3	11.369 ppm	10.782 ppm	12.017 ppm	10.449 ppm
Concentration RSD	2.3 %	1.8 %	2.5 %	1.5 %
Concentration SD	0.3 ppm	0.2 ppm	0.3 ppm	0.2 ppm

	Li 670.784 {50} (Radial)	Mg 279.079 {121} (Radial)	Na 589.592 {57} (Radial)	Sr 421.552 {80} (Radial)
Concentration average	1.083 ppm	10.811 ppm	10.591 ppm	0.441 ppm
Concentration per Run 1	1.096 ppm	10.932 ppm	10.748 ppm	0.447 ppm
Concentration per Run 2	1.084 ppm	10.841 ppm	10.602 ppm	0.441 ppm
Concentration per Run 3	1.070 ppm	10.660 ppm	10.424 ppm	0.435 ppm
Concentration RSD	1.2 %	1.3 %	1.5 %	1.3 %
Concentration SD	0.0 ppm	0.1 ppm	0.2 ppm	0.0 ppm

	Ti 334.941 {101} (Radial)	V 292.402 {115} (Radial)	Co 228.616 {447} (Axial)	Ni 231.604 {446} (Axial)
Concentration average	1.030 ppm	1.115 ppm	1.057 ppm	1.049 ppm
Concentration per Run 1	1.048 ppm	1.132 ppm	1.062 ppm	1.053 ppm
Concentration per Run 2	1.032 ppm	1.119 ppm	1.041 ppm	1.033 ppm
Concentration per Run 3	1.011 ppm	1.096 ppm	1.067 ppm	1.061 ppm
Concentration RSD	1.8 %	1.6 %	1.3 %	1.4 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Pb 220.353 {453} (Axial)	Sn 189.989 {478} (Axial)	Tl 190.856 {477} (Axial)	As 189.042 {478} (Axial)
Concentration average	1.043 ppm	0.976 ppm	1.019 ppm	1.043 ppm
Concentration per Run 1	1.049 ppm	0.980 ppm	1.028 ppm	1.046 ppm
Concentration per Run 2	1.027 ppm	0.962 ppm	1.003 ppm	1.030 ppm
Concentration per Run 3	1.053 ppm	0.986 ppm	1.026 ppm	1.054 ppm
Concentration RSD	1.3 %	1.3 %	1.4 %	1.2 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Ba 233.527 {445} (Axial)	Mo 202.030 {467} (Axial)	S 182.034 {485} (Axial)	Si 251.611 {134} (Axial)
Concentration average	1.080 ppm	1.018 ppm	0.000 ppm	0.987 ppm
Concentration per Run 1	1.084 ppm	1.021 ppm	0.000 ppm	0.989 ppm
Concentration per Run 2	1.067 ppm	1.006 ppm	0.001 ppm	0.980 ppm
Concentration per Run 3	1.089 ppm	1.027 ppm	0.000 ppm	0.991 ppm
Concentration RSD	1.1 %	1.1 %	150.8 %	0.5 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)	Cr 267.716 {126} (Axial)
Concentration average	0.979 ppm	1.056 ppm	0.099 ppm	1.098 ppm
Concentration per Run 1	0.985 ppm	1.059 ppm	0.099 ppm	1.097 ppm
Concentration per Run 2	0.967 ppm	1.045 ppm	0.099 ppm	1.095 ppm
Concentration per Run 3	0.985 ppm	1.063 ppm	0.099 ppm	1.102 ppm
Concentration RSD	1.1 %	0.9 %	0.1 %	0.3 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Mn 257.610 {131} (Axial)	Y 360.073 {94} (Radial)	Y 224.306 {450} (Axial)	In 230.606 {446} (Axial)
Concentration average	1.092 ppm	95.357 %	98.110 %	94.245 %
Concentration per Run 1	1.088 ppm	93.625 %	98.004 %	94.013 %
Concentration per Run 2	1.090 ppm	95.234 %	98.754 %	95.018 %
Concentration per Run 3	1.098 ppm	97.212 %	97.570 %	93.705 %
Concentration RSD	0.5 %	1.9 %	0.6 %	0.7 %
Concentration SD	0.0 ppm	1.8 %	0.6 %	0.7 %

	Y 360.073 {94} (Axial)	Na 818.326 {41} (Radial)	Zn 206.200 {463} (Axial)	Cd 228.802 {447} (Axial)
Concentration average	95.059 %	11.058 ppm	1.063 ppm	1.044 ppm
Concentration per Run 1	95.228 %	11.145 ppm	1.068 ppm	1.048 ppm
Concentration per Run 2	94.868 %	11.134 ppm	1.047 ppm	1.032 ppm
Concentration per Run 3	95.081 %	10.893 ppm	1.073 ppm	1.052 ppm
Concentration RSD	0.2 %	1.3 %	1.3 %	1.0 %
Concentration SD	0.2 %	0.1 ppm	0.0 ppm	0.0 ppm

	Cu 324.754 {104} (Radial)
Concentration average	1.094 ppm
Concentration per Run 1	1.112 ppm
Concentration per Run 2	1.092 ppm
Concentration per Run 3	1.078 ppm
Concentration RSD	1.6 %
Concentration SD	0.0 ppm

	Al 308.215 {109} (Radial)	B 249.678 {135} (Radial)	Be 313.042 {108} (Radial)	Ca 317.933 {106} (Radial)
Intensity average	495 cps	215 cps	16,025 cps	3,183 cps

	Ca 373.690 {90} (Radial)	Fe 259.940 {130} (Radial)	Fe 271.441 {124} (Radial)	K 766.490 {44} (Radial)
Intensity average	1,927 cps	2,994 cps	195 cps	5,848 cps

	Li 670.784 {50} (Radial)	Mg 279.079 {121} (Radial)	Na 589.592 {57} (Radial)	Sr 421.552 {80} (Radial)
Intensity average	14,927 cps	422 cps	19,792 cps	13,449 cps

	Ti 334.941 {101} (Radial)	V 292.402 {115} (Radial)	Co 228.616 {447} (Axial)	Ni 231.604 {446} (Axial)
Intensity average	2,053 cps	477 cps	2,703 cps	1,876 cps

	Pb 220.353 {453} (Axial)	Sn 189.989 {478} (Axial)	Tl 190.856 {477} (Axial)	As 189.042 {478} (Axial)
Intensity average	648 cps	684 cps	476 cps	322 cps

	Ba 233.527 {445} (Axial)	Mo 202.030 {467} (Axial)	S 182.034 {485} (Axial)	Si 251.611 {134} (Axial)
Intensity average	5,878 cps	2,987 cps	3 cps	1,938 cps

	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)	Cr 267.716 {126} (Axial)
Intensity average	519 cps	294 cps	659 cps	5,260 cps

	Mn 257.610 {131} (Axial)	Y 360.073 {94} (Radial)	Y 224.306 {450} (Axial)	In 230.606 {446} (Axial)
Intensity average	40,885 cps	4,655 cps	7,785 cps	2,649 cps

	Y 360.073 {94} (Axial)	Na 818.326 {41} (Radial)	Zn 206.200 {463} (Axial)	Cd 228.802 {447} (Axial)
Intensity average	126,527 cps	914 cps	2,848 cps	4,444 cps

	Cu 324.754 {104} (Radial)
Intensity average	715 cps

Comprehensive sample report

11/28/2014 10:10:14 PM

ICV 14I23903

Sample Type QC Analysis Date 11/28/2014 2:05:36 PM

Dilution Factor 1

	Al 308.215 {109} (Radial)	B 249.678 {135} (Radial)	Be 313.042 {108} (Radial)	Ca 317.933 {106} (Radial)
Concentration average	10.676 ppm	1.071 ppm	1.069 ppm	10.736 ppm
Concentration per Run 1	10.674 ppm	1.067 ppm	1.070 ppm	10.824 ppm
Concentration per Run 2	10.733 ppm	1.079 ppm	1.071 ppm	10.736 ppm
Concentration per Run 3	10.622 ppm	1.067 ppm	1.065 ppm	10.647 ppm
Concentration RSD	0.5 %	0.6 %	0.3 %	0.8 %
Concentration SD	0.1 ppm	0.0 ppm	0.0 ppm	0.1 ppm

	Ca 373.690 {90} (Radial)	Fe 259.940 {130} (Radial)	Fe 271.441 {124} (Radial)	K 766.490 {44} (Radial)
Concentration average	11.448 ppm	10.776 ppm	12.125 ppm	10.368 ppm
Concentration per Run 1	11.438 ppm	10.765 ppm	12.200 ppm	10.354 ppm
Concentration per Run 2	11.447 ppm	10.814 ppm	12.087 ppm	10.450 ppm
Concentration per Run 3	11.460 ppm	10.749 ppm	12.087 ppm	10.301 ppm
Concentration RSD	0.1 %	0.3 %	0.5 %	0.7 %
Concentration SD	0.0 ppm	0.0 ppm	0.1 ppm	0.1 ppm

	Li 670.784 {50} (Radial)	Mg 279.079 {121} (Radial)	Na 589.592 {57} (Radial)	Sr 421.552 {80} (Radial)
Concentration average	1.062 ppm	10.659 ppm	10.421 ppm	0.431 ppm
Concentration per Run 1	1.055 ppm	10.682 ppm	10.406 ppm	0.429 ppm
Concentration per Run 2	1.073 ppm	10.732 ppm	10.520 ppm	0.435 ppm
Concentration per Run 3	1.057 ppm	10.565 ppm	10.338 ppm	0.428 ppm
Concentration RSD	1.0 %	0.8 %	0.9 %	0.9 %
Concentration SD	0.0 ppm	0.1 ppm	0.1 ppm	0.0 ppm

	Ti 334.941 {101} (Radial)	V 292.402 {115} (Radial)	Co 228.616 {447} (Axial)	Ni 231.604 {446} (Axial)
Concentration average	1.013 ppm	1.092 ppm	1.082 ppm	1.074 ppm
Concentration per Run 1	1.009 ppm	1.098 ppm	1.084 ppm	1.073 ppm
Concentration per Run 2	1.016 ppm	1.098 ppm	1.078 ppm	1.072 ppm
Concentration per Run 3	1.013 ppm	1.082 ppm	1.084 ppm	1.078 ppm
Concentration RSD	0.3 %	0.8 %	0.3 %	0.3 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Pb 220.353 {453} (Axial)	Sn 189.989 {478} (Axial)	Tl 190.856 {477} (Axial)	As 189.042 {478} (Axial)
Concentration average	1.064 ppm	1.000 ppm	1.040 ppm	1.069 ppm
Concentration per Run 1	1.064 ppm	1.001 ppm	1.043 ppm	1.068 ppm
Concentration per Run 2	1.064 ppm	0.999 ppm	1.039 ppm	1.076 ppm
Concentration per Run 3	1.065 ppm	1.002 ppm	1.039 ppm	1.063 ppm
Concentration RSD	0.1 %	0.1 %	0.2 %	0.6 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Ba 233.527 {445} (Axial)	Mo 202.030 {467} (Axial)	S 182.034 {485} (Axial)	Si 251.611 {134} (Axial)
Concentration average	1.106 ppm	1.040 ppm	0.005 ppm	0.986 ppm
Concentration per Run 1	1.104 ppm	1.040 ppm	0.007 ppm	0.985 ppm
Concentration per Run 2	1.106 ppm	1.040 ppm	0.007 ppm	0.981 ppm
Concentration per Run 3	1.107 ppm	1.041 ppm	0.001 ppm	0.992 ppm
Concentration RSD	0.2 %	0.1 %	65.4 %	0.6 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)	Cr 267.716 {126} (Axial)
Concentration average	0.996 ppm	1.072 ppm	0.100 ppm	1.097 ppm
Concentration per Run 1	0.991 ppm	1.068 ppm	0.100 ppm	1.102 ppm
Concentration per Run 2	0.997 ppm	1.075 ppm	0.099 ppm	1.095 ppm
Concentration per Run 3	0.999 ppm	1.071 ppm	0.100 ppm	1.096 ppm
Concentration RSD	0.4 %	0.3 %	0.5 %	0.3 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Mn 257.610 {131} (Axial)	Y 360.073 {94} (Radial)	Y 224.306 {450} (Axial)	In 230.606 {446} (Axial)
Concentration average	1.095 ppm	98.292 %	96.784 %	92.797 %
Concentration per Run 1	1.098 ppm	98.083 %	96.537 %	92.448 %
Concentration per Run 2	1.091 ppm	98.136 %	96.872 %	93.073 %
Concentration per Run 3	1.096 ppm	98.656 %	96.944 %	92.869 %
Concentration RSD	0.3 %	0.3 %	0.2 %	0.3 %
Concentration SD	0.0 ppm	0.3 %	0.2 %	0.3 %

	Y 360.073 {94} (Axial)	Na 818.326 {41} (Radial)	Zn 206.200 {463} (Axial)	Cd 228.802 {447} (Axial)
Concentration average	95.892 %	10.881 ppm	1.089 ppm	1.069 ppm
Concentration per Run 1	95.389 %	10.896 ppm	1.086 ppm	1.069 ppm
Concentration per Run 2	96.273 %	10.903 ppm	1.089 ppm	1.069 ppm
Concentration per Run 3	96.014 %	10.844 ppm	1.090 ppm	1.071 ppm
Concentration RSD	0.5 %	0.3 %	0.2 %	0.1 %
Concentration SD	0.5 %	0.0 ppm	0.0 ppm	0.0 ppm

	Cu 324.754 {104} (Radial)
Concentration average	1.064 ppm
Concentration per Run 1	1.059 ppm
Concentration per Run 2	1.075 ppm
Concentration per Run 3	1.058 ppm
Concentration RSD	0.9 %
Concentration SD	0.0 ppm

	Al 308.215 {109} (Radial)	B 249.678 {135} (Radial)	Be 313.042 {108} (Radial)	Ca 317.933 {106} (Radial)
Intensity average	500 cps	219 cps	16,263 cps	3,227 cps

	Ca 373.690 {90} (Radial)	Fe 259.940 {130} (Radial)	Fe 271.441 {124} (Radial)	K 766.490 {44} (Radial)
Intensity average	1,950 cps	3,028 cps	200 cps	5,887 cps

	Li 670.784 {50} (Radial)	Mg 279.079 {121} (Radial)	Na 589.592 {57} (Radial)	Sr 421.552 {80} (Radial)
Intensity average	15,081 cps	429 cps	20,077 cps	13,542 cps

	Ti 334.941 {101} (Radial)	V 292.402 {115} (Radial)	Co 228.616 {447} (Axial)	Ni 231.604 {446} (Axial)
Intensity average	2,081 cps	482 cps	2,726 cps	1,892 cps

	Pb 220.353 {453} (Axial)	Sn 189.989 {478} (Axial)	Tl 190.856 {477} (Axial)	As 189.042 {478} (Axial)
Intensity average	651 cps	691 cps	479 cps	326 cps

	Ba 233.527 {445} (Axial)	Mo 202.030 {467} (Axial)	S 182.034 {485} (Axial)	Si 251.611 {134} (Axial)
Intensity average	5,936 cps	3,011 cps	4 cps	1,954 cps

	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)	Cr 267.716 {126} (Axial)
Intensity average	521 cps	295 cps	669 cps	5,304 cps

	Mn 257.610 {131} (Axial)	Y 360.073 {94} (Radial)	Y 224.306 {450} (Axial)	In 230.606 {446} (Axial)
Intensity average	41,375 cps	4,798 cps	7,679 cps	2,608 cps

	Y 360.073 {94} (Axial)	Na 818.326 {41} (Radial)	Zn 206.200 {463} (Axial)	Cd 228.802 {447} (Axial)
Intensity average	127,636 cps	927 cps	2,877 cps	4,489 cps

	Cu 324.754 {104} (Radial)
Intensity average	717 cps

Comprehensive sample report

11/28/2014 10:10:14 PM

ICB

Sample Type QC Analysis Date 11/28/2014 2:10:10 PM

Dilution Factor 1

	Al 308.215 {109} (Radial)	B 249.678 {135} (Radial)	Be 313.042 {108} (Radial)	Ca 317.933 {106} (Radial)
Concentration average	-0.003 ppm	-0.004 ppm	0.000 ppm	-0.004 ppm
Concentration per Run 1	0.019 ppm	-0.007 ppm	0.000 ppm	0.002 ppm
Concentration per Run 2	-0.039 ppm	-0.003 ppm	0.000 ppm	-0.011 ppm
Concentration per Run 3	0.012 ppm	-0.001 ppm	0.000 ppm	-0.001 ppm
Concentration RSD	1,241.2 %	85.3 %	120.6 %	193.5 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Ca 373.690 {90} (Radial)	Fe 259.940 {130} (Radial)	Fe 271.441 {124} (Radial)	K 766.490 {44} (Radial)
Concentration average	0.012 ppm	0.003 ppm	-0.032 ppm	0.018 ppm
Concentration per Run 1	0.000 ppm	0.001 ppm	0.030 ppm	0.016 ppm
Concentration per Run 2	0.024 ppm	0.004 ppm	-0.055 ppm	-0.001 ppm
Concentration per Run 3	0.012 ppm	0.004 ppm	-0.071 ppm	0.040 ppm
Concentration RSD	99.0 %	58.5 %	168.6 %	112.1 %
Concentration SD	0.0 ppm	0.0 ppm	0.1 ppm	0.0 ppm

	Li 670.784 {50} (Radial)	Mg 279.079 {121} (Radial)	Na 589.592 {57} (Radial)	Sr 421.552 {80} (Radial)
Concentration average	0.000 ppm	-0.037 ppm	0.019 ppm	0.000 ppm
Concentration per Run 1	0.001 ppm	-0.023 ppm	0.020 ppm	0.000 ppm
Concentration per Run 2	0.001 ppm	-0.043 ppm	0.016 ppm	0.000 ppm
Concentration per Run 3	-0.001 ppm	-0.045 ppm	0.019 ppm	0.000 ppm
Concentration RSD	289.1 %	32.6 %	12.3 %	134.2 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Ti 334.941 {101} (Radial)	V 292.402 {115} (Radial)	Co 228.616 {447} (Axial)	Ni 231.604 {446} (Axial)
Concentration average	0.000 ppm	0.000 ppm	0.000 ppm	0.000 ppm
Concentration per Run 1	0.000 ppm	0.001 ppm	0.000 ppm	0.000 ppm
Concentration per Run 2	0.001 ppm	-0.003 ppm	0.000 ppm	0.000 ppm
Concentration per Run 3	0.000 ppm	0.003 ppm	0.000 ppm	0.000 ppm
Concentration RSD	126.4 %	1,508.2 %	159.4 %	157.9 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Pb 220.353 {453} (Axial)	Sn 189.989 {478} (Axial)	Tl 190.856 {477} (Axial)	As 189.042 {478} (Axial)
Concentration average	0.000 ppm	0.001 ppm	0.001 ppm	0.001 ppm
Concentration per Run 1	0.000 ppm	0.001 ppm	0.002 ppm	-0.001 ppm
Concentration per Run 2	0.001 ppm	0.000 ppm	0.001 ppm	0.003 ppm
Concentration per Run 3	0.001 ppm	0.000 ppm	-0.001 ppm	0.000 ppm
Concentration RSD	193.8 %	100.7 %	269.7 %	308.2 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Ba 233.527 {445} (Axial)	Mo 202.030 {467} (Axial)	S 182.034 {485} (Axial)	Si 251.611 {134} (Axial)
Concentration average	0.000 ppm	0.000 ppm	-0.011 ppm	0.000 ppm
Concentration per Run 1	0.000 ppm	0.000 ppm	-0.012 ppm	0.000 ppm
Concentration per Run 2	0.000 ppm	0.000 ppm	-0.012 ppm	0.000 ppm
Concentration per Run 3	0.000 ppm	0.000 ppm	-0.008 ppm	0.000 ppm
Concentration RSD	647.6 %	181.8 %	20.2 %	292.0 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)	Cr 267.716 {126} (Axial)
Concentration average	0.003 ppm	0.002 ppm	0.000 ppm	0.001 ppm
Concentration per Run 1	0.004 ppm	0.003 ppm	0.001 ppm	0.000 ppm
Concentration per Run 2	0.002 ppm	-0.001 ppm	0.000 ppm	0.000 ppm
Concentration per Run 3	0.002 ppm	0.003 ppm	0.000 ppm	0.001 ppm
Concentration RSD	47.6 %	123.0 %	57.5 %	50.1 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Mn 257.610 {131} (Axial)	Y 360.073 {94} (Radial)	Y 224.306 {450} (Axial)	In 230.606 {446} (Axial)
Concentration average	0.000 ppm	97.339 %	102.921 %	103.220 %
Concentration per Run 1	0.000 ppm	95.582 %	99.021 %	99.619 %
Concentration per Run 2	0.000 ppm	98.757 %	111.062 %	111.499 %
Concentration per Run 3	0.000 ppm	97.676 %	98.679 %	98.543 %
Concentration RSD	42.3 %	1.7 %	6.9 %	7.0 %
Concentration SD	0.0 ppm	1.6 %	7.1 %	7.2 %

	Y 360.073 {94} (Axial)	Na 818.326 {41} (Radial)	Zn 206.200 {463} (Axial)	Cd 228.802 {447} (Axial)
Concentration average	97.990 %	0.016 ppm	0.001 ppm	0.000 ppm
Concentration per Run 1	97.670 %	-0.085 ppm	0.001 ppm	0.000 ppm
Concentration per Run 2	98.347 %	0.138 ppm	0.001 ppm	0.000 ppm
Concentration per Run 3	97.952 %	-0.006 ppm	0.001 ppm	0.000 ppm
Concentration RSD	0.3 %	726.2 %	12.5 %	85.8 %
Concentration SD	0.3 %	0.1 ppm	0.0 ppm	0.0 ppm

	Cu 324.754 {104} (Radial)
Concentration average	-0.004 ppm
Concentration per Run 1	-0.005 ppm
Concentration per Run 2	-0.003 ppm
Concentration per Run 3	-0.006 ppm
Concentration RSD	31.1 %
Concentration SD	0.0 ppm

	Al 308.215 {109} (Radial)	B 249.678 {135} (Radial)	Be 313.042 {108} (Radial)	Ca 317.933 {106} (Radial)
Intensity average	5 cps	0 cps	1 cps	8 cps

	Ca 373.690 {90} (Radial)	Fe 259.940 {130} (Radial)	Fe 271.441 {124} (Radial)	K 766.490 {44} (Radial)
Intensity average	12 cps	2 cps	0 cps	30 cps

	Li 670.784 {50} (Radial)	Mg 279.079 {121} (Radial)	Na 589.592 {57} (Radial)	Sr 421.552 {80} (Radial)
Intensity average	-6 cps	-1 cps	59 cps	-4 cps

	Ti 334.941 {101} (Radial)	V 292.402 {115} (Radial)	Co 228.616 {447} (Axial)	Ni 231.604 {446} (Axial)
Intensity average	0 cps	0 cps	-2 cps	1 cps

	Pb 220.353 {453} (Axial)	Sn 189.989 {478} (Axial)	Tl 190.856 {477} (Axial)	As 189.042 {478} (Axial)
Intensity average	-2 cps	1 cps	-5 cps	-3 cps

	Ba 233.527 {445} (Axial)	Mo 202.030 {467} (Axial)	S 182.034 {485} (Axial)	Si 251.611 {134} (Axial)
Intensity average	2 cps	3 cps	1 cps	15 cps

	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)	Cr 267.716 {126} (Axial)
Intensity average	2 cps	-1 cps	1 cps	5 cps

	Mn 257.610 {131} (Axial)	Y 360.073 {94} (Radial)	Y 224.306 {450} (Axial)	In 230.606 {446} (Axial)
Intensity average	8 cps	4,752 cps	8,166 cps	2,901 cps

	Y 360.073 {94} (Axial)	Na 818.326 {41} (Radial)	Zn 206.200 {463} (Axial)	Cd 228.802 {447} (Axial)
Intensity average	130,427 cps	-44 cps	1 cps	5 cps

	Cu 324.754 {104} (Radial)
Intensity average	5 cps

CALBLK

Sample Type BLK Analysis Date 11/28/2014 2:28:02 PM

Dilution Factor 1

	Al 308.215 {109} (Radial)	B 249.678 {135} (Radial)	Be 313.042 {108} (Radial)	Ca 317.933 {106} (Radial)
Concentration average	0.000 ppm	0.000 ppm	0.000 ppm	0.000 ppm
Concentration per Run	0.000 ppm	0.000 ppm	0.000 ppm	0.000 ppm
Concentration RSD	0.1 %	-54.6 %	17.9 %	0.0 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Ca 373.690 {90} (Radial)	Fe 259.940 {130} (Radial)	Fe 271.441 {124} (Radial)	K 766.490 {44} (Radial)
Concentration average	0.000 ppm	0.000 ppm	0.000 ppm	0.000 ppm
Concentration per Run	0.000 ppm	0.000 ppm	0.000 ppm	0.000 ppm
Concentration RSD	0.1 %	0.6 %	4.9 %	0.3 %
Concentration SD	0.0 ppm	0.0 ppm	0.1 ppm	0.0 ppm

	Li 670.784 {50} (Radial)	Mg 279.079 {121} (Radial)	Na 589.592 {57} (Radial)	Sr 421.552 {80} (Radial)
Concentration average	0.000 ppm	0.000 ppm	0.000 ppm	0.000 ppm
Concentration per Run	0.000 ppm	0.000 ppm	0.000 ppm	0.000 ppm
Concentration RSD	6.2 %	-4.7 %	0.1 %	-5.6 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Ti 334.941 {101} (Radial)	V 292.402 {115} (Radial)	Co 228.616 {447} (Axial)	Ni 231.604 {446} (Axial)
Concentration average	0.000 ppm	0.000 ppm	0.000 ppm	0.000 ppm
Concentration per Run	0.000 ppm	0.000 ppm	0.000 ppm	0.000 ppm
Concentration RSD	2.0 %	-0.8 %	-0.5 %	0.3 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Pb 220.353 {453} (Axial)	Sn 189.989 {478} (Axial)	Tl 190.856 {477} (Axial)	As 189.042 {478} (Axial)
Concentration average	0.000 ppm	0.000 ppm	0.000 ppm	0.000 ppm
Concentration per Run	0.000 ppm	0.000 ppm	0.000 ppm	0.000 ppm
Concentration RSD	-0.4 %	0.1 %	-0.2 %	-0.2 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Ba 233.527 {445} (Axial)	Mo 202.030 {467} (Axial)	S 182.034 {485} (Axial)	Si 251.611 {134} (Axial)
Concentration average	0.000 ppm	0.000 ppm	0.000 ppm	0.000 ppm
Concentration per Run	0.000 ppm	0.000 ppm	0.000 ppm	0.000 ppm
Concentration RSD	0.2 %	0.2 %	0.2 %	0.1 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)	Cr 267.716 {126} (Axial)
Concentration average	0.000 ppm	0.000 ppm	0.000 ppm	0.000 ppm

	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)	Cr 267.716 {126} (Axial)
Concentration per Run	0.000 ppm	0.000 ppm	0.000 ppm	0.000 ppm
Concentration RSD	0.2 %	-0.4 %	0.3 %	0.9 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Mn 257.610 {131} (Axial)	Y 360.073 {94} (Radial)	Y 224.306 {450} (Axial)	In 230.606 {446} (Axial)
Concentration average	0.000 ppm	100.000 %	100.000 %	100.000 %
Concentration per Run	0.000 ppm	100.000 %	100.000 %	100.000 %
Concentration RSD	0.7 %			
Concentration SD	0.0 ppm			

	Y 360.073 {94} (Axial)	Na 818.326 {41} (Radial)	Zn 206.200 {463} (Axial)	Cd 228.802 {447} (Axial)
Concentration average	100.000 %	0.000 ppm	0.000 ppm	0.000 ppm
Concentration per Run	100.000 %	0.000 ppm	0.000 ppm	0.000 ppm
Concentration RSD		0.0 %	-0.2 %	0.1 %
Concentration SD		0.0 ppm	0.0 ppm	0.0 ppm

	Cu 324.754 {104} (Radial)
Concentration average	0.000 ppm
Concentration per Run	0.000 ppm
Concentration RSD	0.3 %
Concentration SD	0.0 ppm

	Al 308.215 {109} (Radial)	B 249.678 {135} (Radial)	Be 313.042 {108} (Radial)	Ca 317.933 {106} (Radial)
Intensity average	5 cps	0 cps	0 cps	39 cps

	Ca 373.690 {90} (Radial)	Fe 259.940 {130} (Radial)	Fe 271.441 {124} (Radial)	K 766.490 {44} (Radial)
Intensity average	10 cps	1 cps	0 cps	21 cps

	Li 670.784 {50} (Radial)	Mg 279.079 {121} (Radial)	Na 589.592 {57} (Radial)	Sr 421.552 {80} (Radial)
Intensity average	0 cps	0 cps	51 cps	-1 cps

	Ti 334.941 {101} (Radial)	V 292.402 {115} (Radial)	Co 228.616 {447} (Axial)	Ni 231.604 {446} (Axial)
Intensity average	2 cps	-1 cps	-2 cps	1 cps

	Pb 220.353 {453} (Axial)	Sn 189.989 {478} (Axial)	Tl 190.856 {477} (Axial)	As 189.042 {478} (Axial)
Intensity average	-1 cps	2 cps	-4 cps	-3 cps

	Ba 233.527 {445} (Axial)	Mo 202.030 {467} (Axial)	S 182.034 {485} (Axial)	Si 251.611 {134} (Axial)
Intensity average	2 cps	2 cps	3 cps	32 cps

	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)	Cr 267.716 {126} (Axial)
Intensity average	2 cps	-2 cps	7 cps	2 cps

	Mn 257.610 {131} (Axial)	Y 360.073 {94} (Radial)	Y 224.306 {450} (Axial)	In 230.606 {446} (Axial)
Intensity average	5 cps	4,932 cps	8,019 cps	2,872 cps

	Y 360.073 {94} (Axial)	Na 818.326 {41} (Radial)	Zn 206.200 {463} (Axial)	Cd 228.802 {447} (Axial)
Intensity average	132,229 cps	-158 cps	0 cps	5 cps

	Cu 324.754 {104} (Radial)
Intensity average	6 cps

Comprehensive sample report

11/28/2014 10:10:14 PM

STD1 14G16199

Sample Type STD Analysis Date 11/28/2014 2:32:32 PM

Dilution Factor 1

	Al 308.215 {109} (Radial)	B 249.678 {135} (Radial)	Be 313.042 {108} (Radial)	Ca 317.933 {106} (Radial)
Concentration average	0.117 ppm	0.199 ppm	0.002 ppm	0.534 ppm
Concentration per Run 1	0.092 ppm	0.194 ppm	0.002 ppm	0.522 ppm
Concentration per Run 2	0.103 ppm	0.202 ppm	0.002 ppm	0.542 ppm
Concentration per Run 3	0.155 ppm	0.200 ppm	0.002 ppm	0.536 ppm
Concentration RSD	29.0 %	2.3 %	4.1 %	1.9 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Ca 373.690 {90} (Radial)	Fe 259.940 {130} (Radial)	Fe 271.441 {124} (Radial)	K 766.490 {44} (Radial)
Concentration average	0.000 ppm	0.107 ppm	0.000 ppm	0.481 ppm
Concentration per Run 1	0.000 ppm	0.106 ppm	0.000 ppm	0.487 ppm
Concentration per Run 2	0.000 ppm	0.102 ppm	0.000 ppm	0.481 ppm
Concentration per Run 3	0.000 ppm	0.113 ppm	0.000 ppm	0.476 ppm
Concentration RSD		5.0 %		1.2 %
Concentration SD		0.0 ppm		0.0 ppm

	Li 670.784 {50} (Radial)	Mg 279.079 {121} (Radial)	Na 589.592 {57} (Radial)	Sr 421.552 {80} (Radial)
Concentration average	0.014 ppm	0.118 ppm	0.488 ppm	0.010 ppm
Concentration per Run 1	0.014 ppm	0.101 ppm	0.487 ppm	0.010 ppm
Concentration per Run 2	0.014 ppm	0.086 ppm	0.487 ppm	0.010 ppm
Concentration per Run 3	0.013 ppm	0.167 ppm	0.491 ppm	0.010 ppm
Concentration RSD	2.0 %	36.1 %	0.4 %	1.1 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Ti 334.941 {101} (Radial)	V 292.402 {115} (Radial)	Co 228.616 {447} (Axial)	Ni 231.604 {446} (Axial)
Concentration average	0.009 ppm	0.014 ppm	0.010 ppm	0.022 ppm
Concentration per Run 1	0.010 ppm	0.014 ppm	0.010 ppm	0.022 ppm
Concentration per Run 2	0.010 ppm	0.011 ppm	0.010 ppm	0.022 ppm
Concentration per Run 3	0.008 ppm	0.016 ppm	0.010 ppm	0.022 ppm
Concentration RSD	10.1 %	19.7 %	3.5 %	0.9 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Pb 220.353 {453} (Axial)	Sn 189.989 {478} (Axial)	Tl 190.856 {477} (Axial)	As 189.042 {478} (Axial)
Concentration average	0.005 ppm	0.017 ppm	0.020 ppm	0.018 ppm
Concentration per Run 1	0.005 ppm	0.017 ppm	0.020 ppm	0.018 ppm
Concentration per Run 2	0.006 ppm	0.018 ppm	0.021 ppm	0.018 ppm
Concentration per Run 3	0.004 ppm	0.017 ppm	0.019 ppm	0.019 ppm
Concentration RSD	26.7 %	4.4 %	4.5 %	3.1 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Ba 233.527 {445} (Axial)	Mo 202.030 {467} (Axial)	S 182.034 {485} (Axial)	Si 251.611 {134} (Axial)
Concentration average	0.005 ppm	0.005 ppm	-0.002 ppm	0.180 ppm
Concentration per Run 1	0.005 ppm	0.005 ppm	0.001 ppm	0.184 ppm
Concentration per Run 2	0.005 ppm	0.005 ppm	-0.003 ppm	0.186 ppm
Concentration per Run 3	0.005 ppm	0.005 ppm	-0.003 ppm	0.170 ppm
Concentration RSD	1.2 %	3.9 %	133.0 %	4.8 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)	Cr 267.716 {126} (Axial)
Concentration average	0.017 ppm	0.019 ppm	0.008 ppm	0.010 ppm
Concentration per Run 1	0.014 ppm	0.018 ppm	0.008 ppm	0.010 ppm
Concentration per Run 2	0.017 ppm	0.019 ppm	0.008 ppm	0.010 ppm
Concentration per Run 3	0.019 ppm	0.021 ppm	0.008 ppm	0.009 ppm
Concentration RSD	13.0 %	9.0 %	1.4 %	5.5 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Mn 257.610 {131} (Axial)	Y 360.073 {94} (Radial)	Y 224.306 {450} (Axial)	In 230.606 {446} (Axial)
Concentration average	0.010 ppm	102.517 %	101.708 %	101.063 %
Concentration per Run 1	0.010 ppm	103.233 %	101.602 %	101.091 %
Concentration per Run 2	0.010 ppm	102.670 %	102.070 %	101.330 %
Concentration per Run 3	0.010 ppm	101.648 %	101.453 %	100.769 %
Concentration RSD	4.3 %			
Concentration SD	0.0 ppm			

	Y 360.073 {94} (Axial)	Na 818.326 {41} (Radial)	Zn 206.200 {463} (Axial)	Cd 228.802 {447} (Axial)
Concentration average	104.614 %	0.000 ppm	0.037 ppm	0.005 ppm
Concentration per Run 1	102.671 %	0.000 ppm	0.036 ppm	0.005 ppm
Concentration per Run 2	101.955 %	0.000 ppm	0.037 ppm	0.005 ppm
Concentration per Run 3	109.216 %	0.000 ppm	0.037 ppm	0.005 ppm
Concentration RSD			1.0 %	1.0 %
Concentration SD			0.0 ppm	0.0 ppm

	Cu 324.754 {104} (Radial)
Concentration average	0.022 ppm
Concentration per Run 1	0.022 ppm
Concentration per Run 2	0.023 ppm
Concentration per Run 3	0.022 ppm
Concentration RSD	4.0 %
Concentration SD	0.0 ppm

	Al 308.215 {109} (Radial)	B 249.678 {135} (Radial)	Be 313.042 {108} (Radial)	Ca 317.933 {106} (Radial)
Intensity average	11 cps	42 cps	31 cps	279 cps

	Ca 373.690 {90} (Radial)	Fe 259.940 {130} (Radial)	Fe 271.441 {124} (Radial)	K 766.490 {44} (Radial)
Intensity average	108 cps	32 cps	3 cps	308 cps

	Li 670.784 {50} (Radial)	Mg 279.079 {121} (Radial)	Na 589.592 {57} (Radial)	Sr 421.552 {80} (Radial)
Intensity average	206 cps	5 cps	1,019 cps	322 cps

	Ti 334.941 {101} (Radial)	V 292.402 {115} (Radial)	Co 228.616 {447} (Axial)	Ni 231.604 {446} (Axial)
Intensity average	22 cps	6 cps	26 cps	44 cps

	Pb 220.353 {453} (Axial)	Sn 189.989 {478} (Axial)	Tl 190.856 {477} (Axial)	As 189.042 {478} (Axial)
Intensity average	2 cps	15 cps	7 cps	2 cps

	Ba 233.527 {445} (Axial)	Mo 202.030 {467} (Axial)	S 182.034 {485} (Axial)	Si 251.611 {134} (Axial)
Intensity average	32 cps	18 cps	3 cps	421 cps

	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)	Cr 267.716 {126} (Axial)
Intensity average	11 cps	4 cps	68 cps	52 cps

	Mn 257.610 {131} (Axial)	Y 360.073 {94} (Radial)	Y 224.306 {450} (Axial)	In 230.606 {446} (Axial)
Intensity average	418 cps	5,057 cps	8,156 cps	2,903 cps

	Y 360.073 {94} (Axial)	Na 818.326 {41} (Radial)	Zn 206.200 {463} (Axial)	Cd 228.802 {447} (Axial)
Intensity average	138,331 cps	-109 cps	102 cps	28 cps

	Cu 324.754 {104} (Radial)
Intensity average	22 cps

Comprehensive sample report

11/28/2014 10:10:14 PM

STD7 14J27631

Sample Type STD Analysis Date 11/28/2014 2:36:51 PM

Dilution Factor 1

	Al 308.215 {109} (Radial)	B 249.678 {135} (Radial)	Be 313.042 {108} (Radial)	Ca 317.933 {106} (Radial)
Concentration average	0.000 ppm	0.486 ppm	0.493 ppm	0.531 ppm
Concentration per Run 1	0.000 ppm	0.485 ppm	0.486 ppm	0.531 ppm
Concentration per Run 2	0.000 ppm	0.485 ppm	0.498 ppm	0.535 ppm
Concentration per Run 3	0.000 ppm	0.487 ppm	0.496 ppm	0.527 ppm
Concentration RSD		0.2 %	1.3 %	0.7 %
Concentration SD		0.0 ppm	0.0 ppm	0.0 ppm

	Ca 373.690 {90} (Radial)	Fe 259.940 {130} (Radial)	Fe 271.441 {124} (Radial)	K 766.490 {44} (Radial)
Concentration average	0.000 ppm	0.000 ppm	0.000 ppm	0.000 ppm
Concentration per Run 1	0.000 ppm	0.000 ppm	0.000 ppm	0.000 ppm
Concentration per Run 2	0.000 ppm	0.000 ppm	0.000 ppm	0.000 ppm
Concentration per Run 3	0.000 ppm	0.000 ppm	0.000 ppm	0.000 ppm
Concentration RSD				
Concentration SD				

	Li 670.784 {50} (Radial)	Mg 279.079 {121} (Radial)	Na 589.592 {57} (Radial)	Sr 421.552 {80} (Radial)
Concentration average	0.498 ppm	0.000 ppm	0.500 ppm	0.492 ppm
Concentration per Run 1	0.494 ppm	0.000 ppm	0.494 ppm	0.488 ppm
Concentration per Run 2	0.499 ppm	0.000 ppm	0.506 ppm	0.495 ppm
Concentration per Run 3	0.500 ppm	0.000 ppm	0.500 ppm	0.493 ppm
Concentration RSD	0.7 %		1.2 %	0.7 %
Concentration SD	0.0 ppm		0.0 ppm	0.0 ppm

	Ti 334.941 {101} (Radial)	V 292.402 {115} (Radial)	Co 228.616 {447} (Axial)	Ni 231.604 {446} (Axial)
Concentration average	0.493 ppm	0.498 ppm	0.496 ppm	0.493 ppm
Concentration per Run 1	0.486 ppm	0.497 ppm	0.507 ppm	0.503 ppm
Concentration per Run 2	0.496 ppm	0.498 ppm	0.497 ppm	0.494 ppm
Concentration per Run 3	0.497 ppm	0.499 ppm	0.485 ppm	0.483 ppm
Concentration RSD	1.3 %	0.2 %	2.2 %	2.0 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Pb 220.353 {453} (Axial)	Sn 189.989 {478} (Axial)	Tl 190.856 {477} (Axial)	As 189.042 {478} (Axial)
Concentration average	0.499 ppm	0.487 ppm	0.500 ppm	0.487 ppm
Concentration per Run 1	0.506 ppm	0.498 ppm	0.512 ppm	0.011 ppm
Concentration per Run 2	0.500 ppm	0.487 ppm	0.499 ppm	0.489 ppm
Concentration per Run 3	0.490 ppm	0.476 ppm	0.491 ppm	0.485 ppm
Concentration RSD	1.6 %	2.2 %	2.1 %	0.6 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Ba 233.527 {445} (Axial)	Mo 202.030 {467} (Axial)	S 182.034 {485} (Axial)	Si 251.611 {134} (Axial)
Concentration average	0.000 ppm	0.000 ppm	0.000 ppm	0.450 ppm
Concentration per Run 1	0.000 ppm	0.000 ppm	0.000 ppm	0.465 ppm
Concentration per Run 2	0.000 ppm	0.000 ppm	0.000 ppm	0.417 ppm
Concentration per Run 3	0.000 ppm	0.000 ppm	0.000 ppm	0.469 ppm
Concentration RSD				6.4 %
Concentration SD				0.0 ppm

	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)	Cr 267.716 {126} (Axial)
Concentration average	0.499 ppm	0.497 ppm	0.464 ppm	0.475 ppm
Concentration per Run 1	-0.003 ppm	0.007 ppm	0.479 ppm	0.492 ppm
Concentration per Run 2	0.503 ppm	0.502 ppm	0.430 ppm	0.437 ppm
Concentration per Run 3	0.495 ppm	0.493 ppm	0.483 ppm	0.495 ppm
Concentration RSD	1.1 %	1.3 %	6.4 %	6.9 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Mn 257.610 {131} (Axial)	Y 360.073 {94} (Radial)	Y 224.306 {450} (Axial)	In 230.606 {446} (Axial)
Concentration average	0.478 ppm	102.393 %	99.653 %	97.383 %
Concentration per Run 1	0.495 ppm	103.577 %		95.627 %
Concentration per Run 2	0.440 ppm	101.338 %	99.116 %	97.684 %
Concentration per Run 3	0.499 ppm	102.262 %	100.191 %	98.838 %
Concentration RSD	6.9 %			
Concentration SD	0.0 ppm			

	Y 360.073 {94} (Axial)	Na 818.326 {41} (Radial)	Zn 206.200 {463} (Axial)	Cd 228.802 {447} (Axial)
Concentration average	106.229 %	0.000 ppm	0.499 ppm	0.498 ppm
Concentration per Run 1	103.101 %	0.000 ppm	0.000 ppm	-0.001 ppm
Concentration per Run 2	112.940 %	0.000 ppm	0.505 ppm	0.503 ppm
Concentration per Run 3	102.644 %	0.000 ppm	0.492 ppm	0.493 ppm
Concentration RSD			1.8 %	1.4 %
Concentration SD			0.0 ppm	0.0 ppm

	Cu 324.754 {104} (Radial)
Concentration average	0.487 ppm
Concentration per Run 1	0.486 ppm
Concentration per Run 2	0.486 ppm
Concentration per Run 3	0.487 ppm
Concentration RSD	0.1 %
Concentration SD	0.0 ppm

	Al 308.215 {109} (Radial)	B 249.678 {135} (Radial)	Be 313.042 {108} (Radial)	Ca 317.933 {106} (Radial)
Intensity average	28 cps	102 cps	7,686 cps	277 cps

	Ca 373.690 {90} (Radial)	Fe 259.940 {130} (Radial)	Fe 271.441 {124} (Radial)	K 766.490 {44} (Radial)
Intensity average	106 cps	147 cps	11 cps	320 cps

	Li 670.784 {50} (Radial)	Mg 279.079 {121} (Radial)	Na 589.592 {57} (Radial)	Sr 421.552 {80} (Radial)
Intensity average	7,441 cps	19 cps	1,040 cps	16,234 cps

	Ti 334.941 {101} (Radial)	V 292.402 {115} (Radial)	Co 228.616 {447} (Axial)	Ni 231.604 {446} (Axial)
Intensity average	1,059 cps	229 cps	1,327 cps	928 cps

	Pb 220.353 {453} (Axial)	Sn 189.989 {478} (Axial)	Tl 190.856 {477} (Axial)	As 189.042 {478} (Axial)
Intensity average	326 cps	361 cps	248 cps	153 cps

	Ba 233.527 {445} (Axial)	Mo 202.030 {467} (Axial)	S 182.034 {485} (Axial)	Si 251.611 {134} (Axial)
Intensity average	2,913 cps	1,535 cps	92 cps	1,018 cps

	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)	Cr 267.716 {126} (Axial)
Intensity average	269 cps	142 cps	3,532 cps	2,510 cps

	Mn 257.610 {131} (Axial)	Y 360.073 {94} (Radial)	Y 224.306 {450} (Axial)	In 230.606 {446} (Axial)
Intensity average	19,811 cps	5,050 cps	7,992 cps	2,797 cps

	Y 360.073 {94} (Axial)	Na 818.326 {41} (Radial)	Zn 206.200 {463} (Axial)	Cd 228.802 {447} (Axial)
Intensity average	140,465 cps	-102 cps	1,362 cps	2,171 cps

	Cu 324.754 {104} (Radial)
Intensity average	345 cps

Comprehensive sample report

11/28/2014 10:10:14 PM

STD2 14J08649

Sample Type STD Analysis Date 11/28/2014 2:41:07 PM

Dilution Factor 1

	Al 308.215 {109} (Radial)	B 249.678 {135} (Radial)	Be 313.042 {108} (Radial)	Ca 317.933 {106} (Radial)
Concentration average	0.000 ppm	1.009 ppm	1.005 ppm	1.083 ppm
Concentration per Run 1	0.000 ppm	1.001 ppm	1.010 ppm	1.095 ppm
Concentration per Run 2	0.000 ppm	1.016 ppm	1.011 ppm	1.080 ppm
Concentration per Run 3	0.000 ppm	1.011 ppm	0.996 ppm	1.075 ppm
Concentration RSD		0.7 %	0.8 %	1.0 %
Concentration SD		0.0 ppm	0.0 ppm	0.0 ppm

	Ca 373.690 {90} (Radial)	Fe 259.940 {130} (Radial)	Fe 271.441 {124} (Radial)	K 766.490 {44} (Radial)
Concentration average	0.000 ppm	1.031 ppm	0.000 ppm	0.000 ppm
Concentration per Run 1	0.000 ppm	1.034 ppm	0.000 ppm	0.000 ppm
Concentration per Run 2	0.000 ppm	1.030 ppm	0.000 ppm	0.000 ppm
Concentration per Run 3	0.000 ppm	1.028 ppm	0.000 ppm	0.000 ppm
Concentration RSD		0.3 %		
Concentration SD		0.0 ppm		

	Li 670.784 {50} (Radial)	Mg 279.079 {121} (Radial)	Na 589.592 {57} (Radial)	Sr 421.552 {80} (Radial)
Concentration average	1.010 ppm	0.000 ppm	1.021 ppm	1.007 ppm
Concentration per Run 1	1.008 ppm	0.000 ppm	1.017 ppm	1.005 ppm
Concentration per Run 2	1.018 ppm	0.000 ppm	1.028 ppm	1.014 ppm
Concentration per Run 3	1.003 ppm	0.000 ppm	1.020 ppm	1.001 ppm
Concentration RSD	0.7 %		0.6 %	0.7 %
Concentration SD	0.0 ppm		0.0 ppm	0.0 ppm

	Ti 334.941 {101} (Radial)	V 292.402 {115} (Radial)	Co 228.616 {447} (Axial)	Ni 231.604 {446} (Axial)
Concentration average	1.008 ppm	1.013 ppm	0.993 ppm	0.992 ppm
Concentration per Run 1	1.011 ppm	1.012 ppm	1.000 ppm	0.998 ppm
Concentration per Run 2	1.012 ppm	1.011 ppm	0.989 ppm	0.988 ppm
Concentration per Run 3	1.000 ppm	1.014 ppm	0.991 ppm	0.989 ppm
Concentration RSD	0.6 %	0.2 %	0.6 %	0.6 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Pb 220.353 {453} (Axial)	Sn 189.989 {478} (Axial)	Tl 190.856 {477} (Axial)	As 189.042 {478} (Axial)
Concentration average	1.001 ppm	0.982 ppm	1.000 ppm	0.981 ppm
Concentration per Run 1	1.005 ppm	0.988 ppm	1.010 ppm	0.989 ppm
Concentration per Run 2	0.995 ppm	0.977 ppm	0.995 ppm	0.978 ppm
Concentration per Run 3	1.001 ppm	0.980 ppm	0.995 ppm	0.976 ppm
Concentration RSD	0.5 %	0.6 %	0.9 %	0.7 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Ba 233.527 {445} (Axial)	Mo 202.030 {467} (Axial)	S 182.034 {485} (Axial)	Si 251.611 {134} (Axial)
Concentration average	1.063 ppm	1.016 ppm	0.926 ppm	1.002 ppm
Concentration per Run 1	1.070 ppm	1.024 ppm	0.931 ppm	0.980 ppm
Concentration per Run 2	1.060 ppm	1.011 ppm	0.923 ppm	1.042 ppm
Concentration per Run 3	1.059 ppm	1.012 ppm	0.923 ppm	0.984 ppm
Concentration RSD	0.6 %	0.7 %	0.5 %	3.5 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)	Cr 267.716 {126} (Axial)
Concentration average	1.001 ppm	1.001 ppm	1.018 ppm	1.037 ppm
Concentration per Run 1	1.009 ppm	1.009 ppm	1.001 ppm	1.018 ppm
Concentration per Run 2	0.996 ppm	1.003 ppm	1.050 ppm	1.071 ppm
Concentration per Run 3	0.997 ppm	0.992 ppm	1.003 ppm	1.021 ppm
Concentration RSD	0.7 %	0.8 %	2.7 %	2.9 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Mn 257.610 {131} (Axial)	Y 360.073 {94} (Radial)	Y 224.306 {450} (Axial)	In 230.606 {446} (Axial)
Concentration average	1.035 ppm	101.928 %	100.918 %	98.471 %
Concentration per Run 1	1.019 ppm	101.134 %	100.466 %	98.070 %
Concentration per Run 2	1.072 ppm	101.871 %	100.961 %	98.702 %
Concentration per Run 3	1.015 ppm	102.779 %	101.326 %	98.640 %
Concentration RSD	3.1 %			
Concentration SD	0.0 ppm			

	Y 360.073 {94} (Axial)	Na 818.326 {41} (Radial)	Zn 206.200 {463} (Axial)	Cd 228.802 {447} (Axial)
Concentration average	99.538 %	0.000 ppm	1.011 ppm	1.001 ppm
Concentration per Run 1	100.454 %	0.000 ppm	1.018 ppm	1.009 ppm
Concentration per Run 2	96.834 %	0.000 ppm	1.005 ppm	0.996 ppm
Concentration per Run 3	101.325 %	0.000 ppm	1.010 ppm	0.999 ppm
Concentration RSD			0.6 %	0.7 %
Concentration SD			0.0 ppm	0.0 ppm

	Cu 324.754 {104} (Radial)
Concentration average	1.010 ppm
Concentration per Run 1	1.000 ppm
Concentration per Run 2	1.019 ppm
Concentration per Run 3	1.011 ppm
Concentration RSD	0.9 %
Concentration SD	0.0 ppm

	Al 308.215 {109} (Radial)	B 249.678 {135} (Radial)	Be 313.042 {108} (Radial)	Ca 317.933 {106} (Radial)
Intensity average	52 cps	211 cps	15,597 cps	522 cps

	Ca 373.690 {90} (Radial)	Fe 259.940 {130} (Radial)	Fe 271.441 {124} (Radial)	K 766.490 {44} (Radial)
Intensity average	210 cps	298 cps	21 cps	615 cps

	Li 670.784 {50} (Radial)	Mg 279.079 {121} (Radial)	Na 589.592 {57} (Radial)	Sr 421.552 {80} (Radial)
Intensity average	15,018 cps	41 cps	2,061 cps	33,078 cps

	Ti 334.941 {101} (Radial)	V 292.402 {115} (Radial)	Co 228.616 {447} (Axial)	Ni 231.604 {446} (Axial)
Intensity average	2,154 cps	464 cps	2,687 cps	1,887 cps

	Pb 220.353 {453} (Axial)	Sn 189.989 {478} (Axial)	Tl 190.856 {477} (Axial)	As 189.042 {478} (Axial)
Intensity average	663 cps	734 cps	505 cps	315 cps

	Ba 233.527 {445} (Axial)	Mo 202.030 {467} (Axial)	S 182.034 {485} (Axial)	Si 251.611 {134} (Axial)
Intensity average	5,863 cps	3,092 cps	186 cps	2,088 cps

	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)	Cr 267.716 {126} (Axial)
Intensity average	545 cps	290 cps	7,267 cps	5,145 cps

	Mn 257.610 {131} (Axial)	Y 360.073 {94} (Radial)	Y 224.306 {450} (Axial)	In 230.606 {446} (Axial)
Intensity average	40,262 cps	5,027 cps	8,093 cps	2,828 cps

	Y 360.073 {94} (Axial)	Na 818.326 {41} (Radial)	Zn 206.200 {463} (Axial)	Cd 228.802 {447} (Axial)
Intensity average	131,618 cps	-55 cps	2,791 cps	4,406 cps

	Cu 324.754 {104} (Radial)
Intensity average	707 cps

Comprehensive sample report

11/28/2014 10:10:14 PM

STD3 14J06521

Sample Type STD Analysis Date 11/28/2014 2:45:17 PM

Dilution Factor 1

	Al 308.215 {109} (Radial)	B 249.678 {135} (Radial)	Be 313.042 {108} (Radial)	Ca 317.933 {106} (Radial)
Concentration average	0.000 ppm	1.999 ppm	1.999 ppm	2.031 ppm
Concentration per Run 1	0.000 ppm	2.005 ppm	2.000 ppm	2.042 ppm
Concentration per Run 2	0.000 ppm	2.008 ppm	2.001 ppm	2.032 ppm
Concentration per Run 3	0.000 ppm	1.985 ppm	1.996 ppm	2.020 ppm
Concentration RSD		0.6 %	0.1 %	0.5 %
Concentration SD		0.0 ppm	0.0 ppm	0.0 ppm

	Ca 373.690 {90} (Radial)	Fe 259.940 {130} (Radial)	Fe 271.441 {124} (Radial)	K 766.490 {44} (Radial)
Concentration average	0.000 ppm	2.034 ppm	0.000 ppm	0.000 ppm
Concentration per Run 1	0.000 ppm	2.046 ppm	0.000 ppm	0.000 ppm
Concentration per Run 2	0.000 ppm	2.027 ppm	0.000 ppm	0.000 ppm
Concentration per Run 3	0.000 ppm	2.029 ppm	0.000 ppm	0.000 ppm
Concentration RSD		0.5 %		
Concentration SD		0.0 ppm		

	Li 670.784 {50} (Radial)	Mg 279.079 {121} (Radial)	Na 589.592 {57} (Radial)	Sr 421.552 {80} (Radial)
Concentration average	1.996 ppm	0.000 ppm	2.021 ppm	1.999 ppm
Concentration per Run 1	1.990 ppm	0.000 ppm	2.020 ppm	1.995 ppm
Concentration per Run 2	1.993 ppm	0.000 ppm	2.023 ppm	2.001 ppm
Concentration per Run 3	2.004 ppm	0.000 ppm	2.020 ppm	2.000 ppm
Concentration RSD	0.4 %		0.1 %	0.2 %
Concentration SD	0.0 ppm		0.0 ppm	0.0 ppm

	Ti 334.941 {101} (Radial)	V 292.402 {115} (Radial)	Co 228.616 {447} (Axial)	Ni 231.604 {446} (Axial)
Concentration average	1.998 ppm	1.994 ppm	2.004 ppm	2.006 ppm
Concentration per Run 1	2.000 ppm	2.000 ppm	1.984 ppm	1.985 ppm
Concentration per Run 2	1.998 ppm	1.992 ppm	1.999 ppm	2.002 ppm
Concentration per Run 3	1.996 ppm	1.991 ppm	2.030 ppm	2.031 ppm
Concentration RSD	0.1 %	0.2 %	1.2 %	1.2 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Pb 220.353 {453} (Axial)	Sn 189.989 {478} (Axial)	Tl 190.856 {477} (Axial)	As 189.042 {478} (Axial)
Concentration average	0.000 ppm	2.012 ppm	0.000 ppm	2.013 ppm
Concentration per Run 1	0.000 ppm	1.993 ppm	0.000 ppm	2.000 ppm
Concentration per Run 2	0.000 ppm	2.011 ppm	0.000 ppm	1.999 ppm
Concentration per Run 3	0.000 ppm	2.033 ppm	0.000 ppm	2.040 ppm
Concentration RSD		1.0 %		1.1 %
Concentration SD		0.0 ppm		0.0 ppm

	Ba 233.527 {445} (Axial)	Mo 202.030 {467} (Axial)	S 182.034 {485} (Axial)	Si 251.611 {134} (Axial)
Concentration average	2.108 ppm	1.992 ppm	1.945 ppm	2.013 ppm
Concentration per Run 1	2.094 ppm	1.979 ppm	1.935 ppm	2.005 ppm
Concentration per Run 2	2.094 ppm	1.978 ppm	1.932 ppm	2.017 ppm
Concentration per Run 3	2.137 ppm	2.020 ppm	1.967 ppm	2.017 ppm
Concentration RSD	1.2 %	1.2 %	1.0 %	0.4 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)	Cr 267.716 {126} (Axial)
Concentration average	0.000 ppm	0.000 ppm	0.000 ppm	1.988 ppm
Concentration per Run 1	0.000 ppm	0.000 ppm	0.000 ppm	1.972 ppm
Concentration per Run 2	0.000 ppm	0.000 ppm	0.000 ppm	1.993 ppm
Concentration per Run 3	0.000 ppm	0.000 ppm	0.000 ppm	1.999 ppm
Concentration RSD				0.7 %
Concentration SD				0.0 ppm

	Mn 257.610 {131} (Axial)	Y 360.073 {94} (Radial)	Y 224.306 {450} (Axial)	In 230.606 {446} (Axial)
Concentration average	1.988 ppm	103.284 %	100.065 %	96.784 %
Concentration per Run 1	1.974 ppm	103.063 %	100.555 %	97.605 %
Concentration per Run 2	1.993 ppm	103.026 %	101.039 %	97.208 %
Concentration per Run 3	1.997 ppm	103.764 %	98.600 %	95.540 %
Concentration RSD	0.6 %			
Concentration SD	0.0 ppm			

	Y 360.073 {94} (Axial)	Na 818.326 {41} (Radial)	Zn 206.200 {463} (Axial)	Cd 228.802 {447} (Axial)
Concentration average	101.451 %	0.000 ppm	1.995 ppm	0.000 ppm
Concentration per Run 1	102.013 %	0.000 ppm	1.974 ppm	0.000 ppm
Concentration per Run 2	101.040 %	0.000 ppm	1.995 ppm	0.000 ppm
Concentration per Run 3	101.300 %	0.000 ppm	2.014 ppm	0.000 ppm
Concentration RSD			1.0 %	
Concentration SD			0.0 ppm	

	Cu 324.754 {104} (Radial)
Concentration average	1.998 ppm
Concentration per Run 1	1.996 ppm
Concentration per Run 2	2.007 ppm
Concentration per Run 3	1.991 ppm
Concentration RSD	0.4 %
Concentration SD	0.0 ppm

	Al 308.215 {109} (Radial)	B 249.678 {135} (Radial)	Be 313.042 {108} (Radial)	Ca 317.933 {106} (Radial)
Intensity average	99 cps	424 cps	31,426 cps	956 cps

	Ca 373.690 {90} (Radial)	Fe 259.940 {130} (Radial)	Fe 271.441 {124} (Radial)	K 766.490 {44} (Radial)
Intensity average	385 cps	594 cps	42 cps	1,185 cps

	Li 670.784 {50} (Radial)	Mg 279.079 {121} (Radial)	Na 589.592 {57} (Radial)	Sr 421.552 {80} (Radial)
Intensity average	30,075 cps	80 cps	4,080 cps	66,535 cps

	Ti 334.941 {101} (Radial)	V 292.402 {115} (Radial)	Co 228.616 {447} (Axial)	Ni 231.604 {446} (Axial)
Intensity average	4,326 cps	926 cps	5,329 cps	3,751 cps

	Pb 220.353 {453} (Axial)	Sn 189.989 {478} (Axial)	Tl 190.856 {477} (Axial)	As 189.042 {478} (Axial)
Intensity average	1,347 cps	1,478 cps	1,042 cps	645 cps

	Ba 233.527 {445} (Axial)	Mo 202.030 {467} (Axial)	S 182.034 {485} (Axial)	Si 251.611 {134} (Axial)
Intensity average	11,524 cps	6,011 cps	384 cps	4,243 cps

	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)	Cr 267.716 {126} (Axial)
Intensity average	1,111 cps	596 cps	14,840 cps	10,055 cps

	Mn 257.610 {131} (Axial)	Y 360.073 {94} (Radial)	Y 224.306 {450} (Axial)	In 230.606 {446} (Axial)
Intensity average	78,855 cps	5,094 cps	8,025 cps	2,780 cps

	Y 360.073 {94} (Axial)	Na 818.326 {41} (Radial)	Zn 206.200 {463} (Axial)	Cd 228.802 {447} (Axial)
Intensity average	134,148 cps	68 cps	5,459 cps	8,908 cps

	Cu 324.754 {104} (Radial)
Intensity average	1,410 cps

Comprehensive sample report

11/28/2014 10:10:14 PM

STD4 14J27630

Sample Type STD Analysis Date 11/28/2014 2:49:42 PM

Dilution Factor 1

	Al 308.215 {109} (Radial)	B 249.678 {135} (Radial)	Be 313.042 {108} (Radial)	Ca 317.933 {106} (Radial)
Concentration average	9.901 ppm	0.000 ppm	0.000 ppm	9.982 ppm
Concentration per Run 1	9.892 ppm	0.000 ppm	0.000 ppm	9.961 ppm
Concentration per Run 2	9.858 ppm	0.000 ppm	0.000 ppm	9.975 ppm
Concentration per Run 3	9.953 ppm	0.000 ppm	0.000 ppm	10.011 ppm
Concentration RSD	0.5 %			0.3 %
Concentration SD	0.0 ppm			0.0 ppm

	Ca 373.690 {90} (Radial)	Fe 259.940 {130} (Radial)	Fe 271.441 {124} (Radial)	K 766.490 {44} (Radial)
Concentration average	10.499 ppm	9.990 ppm	10.813 ppm	9.713 ppm
Concentration per Run 1	10.492 ppm	9.994 ppm	10.826 ppm	9.756 ppm
Concentration per Run 2	10.428 ppm	9.957 ppm	10.737 ppm	9.671 ppm
Concentration per Run 3	10.579 ppm	10.019 ppm	10.875 ppm	9.713 ppm
Concentration RSD	0.7 %	0.3 %	0.6 %	0.4 %
Concentration SD	0.1 ppm	0.0 ppm	0.1 ppm	0.0 ppm

	Li 670.784 {50} (Radial)	Mg 279.079 {121} (Radial)	Na 589.592 {57} (Radial)	Sr 421.552 {80} (Radial)
Concentration average	0.000 ppm	9.987 ppm	9.994 ppm	0.000 ppm
Concentration per Run 1	0.000 ppm	9.978 ppm	10.013 ppm	0.000 ppm
Concentration per Run 2	0.000 ppm	9.937 ppm	9.958 ppm	0.000 ppm
Concentration per Run 3	0.000 ppm	10.045 ppm	10.012 ppm	0.000 ppm
Concentration RSD		0.5 %	0.3 %	
Concentration SD		0.1 ppm	0.0 ppm	

	Ti 334.941 {101} (Radial)	V 292.402 {115} (Radial)	Co 228.616 {447} (Axial)	Ni 231.604 {446} (Axial)
Concentration average	0.000 ppm	0.000 ppm	0.000 ppm	0.000 ppm
Concentration per Run 1	0.000 ppm	0.000 ppm	0.000 ppm	0.000 ppm
Concentration per Run 2	0.000 ppm	0.000 ppm	0.000 ppm	0.000 ppm
Concentration per Run 3	0.000 ppm	0.000 ppm	0.000 ppm	0.000 ppm
Concentration RSD				
Concentration SD				

	Pb 220.353 {453} (Axial)	Sn 189.989 {478} (Axial)	Tl 190.856 {477} (Axial)	As 189.042 {478} (Axial)
Concentration average	0.000 ppm	0.000 ppm	0.000 ppm	0.000 ppm
Concentration per Run 1	0.000 ppm	0.000 ppm	0.000 ppm	0.000 ppm
Concentration per Run 2	0.000 ppm	0.000 ppm	0.000 ppm	0.000 ppm
Concentration per Run 3	0.000 ppm	0.000 ppm	0.000 ppm	0.000 ppm
Concentration RSD				
Concentration SD				

	Ba 233.527 {445} (Axial)	Mo 202.030 {467} (Axial)	S 182.034 {485} (Axial)	Si 251.611 {134} (Axial)
Concentration average	9.972 ppm	0.000 ppm	9.989 ppm	0.000 ppm
Concentration per Run 1	9.993 ppm	0.000 ppm	10.036 ppm	0.000 ppm
Concentration per Run 2	9.942 ppm	0.000 ppm	9.959 ppm	0.000 ppm
Concentration per Run 3	9.981 ppm	0.000 ppm	9.971 ppm	0.000 ppm
Concentration RSD	0.3 %		0.4 %	
Concentration SD	0.0 ppm		0.0 ppm	

	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)	Cr 267.716 {126} (Axial)
Concentration average	0.000 ppm	0.000 ppm	0.000 ppm	0.000 ppm
Concentration per Run 1	0.000 ppm	0.000 ppm	0.000 ppm	0.000 ppm
Concentration per Run 2	0.000 ppm	0.000 ppm	0.000 ppm	0.000 ppm
Concentration per Run 3	0.000 ppm	0.000 ppm	0.000 ppm	0.000 ppm
Concentration RSD				
Concentration SD				

	Mn 257.610 {131} (Axial)	Y 360.073 {94} (Radial)	Y 224.306 {450} (Axial)	In 230.606 {446} (Axial)
Concentration average	0.000 ppm	104.116 %	102.089 %	97.299 %
Concentration per Run 1	0.000 ppm	104.502 %	101.972 %	97.186 %
Concentration per Run 2	0.000 ppm	104.443 %	102.518 %	97.589 %
Concentration per Run 3	0.000 ppm	103.404 %	101.776 %	97.121 %
Concentration RSD				
Concentration SD				

	Y 360.073 {94} (Axial)	Na 818.326 {41} (Radial)	Zn 206.200 {463} (Axial)	Cd 228.802 {447} (Axial)
Concentration average	101.352 %	10.612 ppm	0.000 ppm	0.000 ppm
Concentration per Run 1	101.637 %	10.718 ppm	0.000 ppm	0.000 ppm
Concentration per Run 2	100.750 %	10.495 ppm	0.000 ppm	0.000 ppm
Concentration per Run 3	101.670 %	10.622 ppm	0.000 ppm	0.000 ppm
Concentration RSD		1.1 %		
Concentration SD		0.1 ppm		

	Cu 324.754 {104} (Radial)
Concentration average	0.000 ppm
Concentration per Run 1	0.000 ppm
Concentration per Run 2	0.000 ppm
Concentration per Run 3	0.000 ppm
Concentration RSD	
Concentration SD	

	Al 308.215 {109} (Radial)	B 249.678 {135} (Radial)	Be 313.042 {108} (Radial)	Ca 317.933 {106} (Radial)
Intensity average	486 cps	1 cps	7 cps	4,574 cps

	Ca 373.690 {90} (Radial)	Fe 259.940 {130} (Radial)	Fe 271.441 {124} (Radial)	K 766.490 {44} (Radial)
Intensity average	1,879 cps	2,936 cps	188 cps	5,901 cps

	Li 670.784 {50} (Radial)	Mg 279.079 {121} (Radial)	Na 589.592 {57} (Radial)	Sr 421.552 {80} (Radial)
Intensity average	11 cps	423 cps	20,129 cps	20 cps

	Ti 334.941 {101} (Radial)	V 292.402 {115} (Radial)	Co 228.616 {447} (Axial)	Ni 231.604 {446} (Axial)
Intensity average	3 cps	0 cps	-1 cps	-1 cps

	Pb 220.353 {453} (Axial)	Sn 189.989 {478} (Axial)	Tl 190.856 {477} (Axial)	As 189.042 {478} (Axial)
Intensity average	1 cps	1 cps	0 cps	-3 cps

	Ba 233.527 {445} (Axial)	Mo 202.030 {467} (Axial)	S 182.034 {485} (Axial)	Si 251.611 {134} (Axial)
Intensity average	55,606 cps	4 cps	2,002 cps	21,291 cps

	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)	Cr 267.716 {126} (Axial)
Intensity average	-1 cps	-1 cps	2 cps	5 cps

	Mn 257.610 {131} (Axial)	Y 360.073 {94} (Radial)	Y 224.306 {450} (Axial)	In 230.606 {446} (Axial)
Intensity average	33 cps	5,135 cps	8,187 cps	2,795 cps

	Y 360.073 {94} (Axial)	Na 818.326 {41} (Radial)	Zn 206.200 {463} (Axial)	Cd 228.802 {447} (Axial)
Intensity average	134,018 cps	847 cps	2 cps	-4 cps

	Cu 324.754 {104} (Radial)
Intensity average	7 cps

Comprehensive sample report

11/28/2014 10:10:14 PM

STD5 14J08650

Sample Type STD Analysis Date 11/28/2014 2:54:17 PM

Dilution Factor 1

	Al 308.215 {109} (Radial)	B 249.678 {135} (Radial)	Be 313.042 {108} (Radial)	Ca 317.933 {106} (Radial)
Concentration average	249.265 ppm	0.000 ppm	0.000 ppm	0.000 ppm
Concentration per Run 1	248.964 ppm	0.000 ppm	0.000 ppm	0.000 ppm
Concentration per Run 2	250.889 ppm	0.000 ppm	0.000 ppm	0.000 ppm
Concentration per Run 3	247.943 ppm	0.000 ppm	0.000 ppm	0.000 ppm
Concentration RSD	0.6 %			
Concentration SD	1.5 ppm			

	Ca 373.690 {90} (Radial)	Fe 259.940 {130} (Radial)	Fe 271.441 {124} (Radial)	K 766.490 {44} (Radial)
Concentration average	252.574 ppm	0.000 ppm	101.891 ppm	49.216 ppm
Concentration per Run 1	253.076 ppm	0.000 ppm	102.257 ppm	49.261 ppm
Concentration per Run 2	254.474 ppm	0.000 ppm	102.672 ppm	49.433 ppm
Concentration per Run 3	250.171 ppm	0.000 ppm	100.742 ppm	48.954 ppm
Concentration RSD	0.9 %		1.0 %	0.5 %
Concentration SD	2.2 ppm		1.0 ppm	0.2 ppm

	Li 670.784 {50} (Radial)	Mg 279.079 {121} (Radial)	Na 589.592 {57} (Radial)	Sr 421.552 {80} (Radial)
Concentration average	0.000 ppm	250.424 ppm	0.000 ppm	0.000 ppm
Concentration per Run 1	0.000 ppm	250.891 ppm	0.000 ppm	0.000 ppm
Concentration per Run 2	0.000 ppm	252.406 ppm	0.000 ppm	0.000 ppm
Concentration per Run 3	0.000 ppm	247.976 ppm	0.000 ppm	0.000 ppm
Concentration RSD		0.9 %		
Concentration SD		2.3 ppm		

	Ti 334.941 {101} (Radial)	V 292.402 {115} (Radial)	Co 228.616 {447} (Axial)	Ni 231.604 {446} (Axial)
Concentration average	0.000 ppm	0.000 ppm	0.000 ppm	0.000 ppm
Concentration per Run 1	0.000 ppm	0.000 ppm	0.000 ppm	0.000 ppm
Concentration per Run 2	0.000 ppm	0.000 ppm	0.000 ppm	0.000 ppm
Concentration per Run 3	0.000 ppm	0.000 ppm	0.000 ppm	0.000 ppm
Concentration RSD				
Concentration SD				

	Pb 220.353 {453} (Axial)	Sn 189.989 {478} (Axial)	Tl 190.856 {477} (Axial)	As 189.042 {478} (Axial)
Concentration average	0.000 ppm	0.000 ppm	0.000 ppm	0.000 ppm
Concentration per Run 1	0.000 ppm	0.000 ppm	0.000 ppm	0.000 ppm
Concentration per Run 2	0.000 ppm	0.000 ppm	0.000 ppm	0.000 ppm
Concentration per Run 3	0.000 ppm	0.000 ppm	0.000 ppm	0.000 ppm
Concentration RSD				
Concentration SD				

	Ba 233.527 {445} (Axial)	Mo 202.030 {467} (Axial)	S 182.034 {485} (Axial)	Si 251.611 {134} (Axial)
Concentration average	0.000 ppm	0.000 ppm	48.513 ppm	0.000 ppm
Concentration per Run 1	0.000 ppm	0.000 ppm	48.592 ppm	0.000 ppm
Concentration per Run 2	0.000 ppm	0.000 ppm	48.100 ppm	0.000 ppm
Concentration per Run 3	0.000 ppm	0.000 ppm	48.846 ppm	0.000 ppm
Concentration RSD			0.8 %	
Concentration SD			0.4 ppm	

	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)	Cr 267.716 {126} (Axial)
Concentration average	0.000 ppm	0.000 ppm	0.000 ppm	0.000 ppm
Concentration per Run 1	0.000 ppm	0.000 ppm	0.000 ppm	0.000 ppm
Concentration per Run 2	0.000 ppm	0.000 ppm	0.000 ppm	0.000 ppm
Concentration per Run 3	0.000 ppm	0.000 ppm	0.000 ppm	0.000 ppm
Concentration RSD				
Concentration SD				

	Mn 257.610 {131} (Axial)	Y 360.073 {94} (Radial)	Y 224.306 {450} (Axial)	In 230.606 {446} (Axial)
Concentration average	0.000 ppm	96.374 %	87.639 %	73.766 %
Concentration per Run 1	0.000 ppm	95.935 %	87.528 %	73.514 %
Concentration per Run 2	0.000 ppm	95.926 %	88.193 %	74.260 %
Concentration per Run 3	0.000 ppm	97.262 %	87.196 %	73.523 %
Concentration RSD				
Concentration SD				

	Y 360.073 {94} (Axial)	Na 818.326 {41} (Radial)	Zn 206.200 {463} (Axial)	Cd 228.802 {447} (Axial)
Concentration average	87.607 %	248.199 ppm	0.000 ppm	0.000 ppm
Concentration per Run 1	87.971 %	248.629 ppm	0.000 ppm	0.000 ppm
Concentration per Run 2	87.774 %	249.081 ppm	0.000 ppm	0.000 ppm
Concentration per Run 3	87.077 %	246.886 ppm	0.000 ppm	0.000 ppm
Concentration RSD		0.5 %		
Concentration SD		1.2 ppm		

	Cu 324.754 {104} (Radial)
Concentration average	0.000 ppm
Concentration per Run 1	0.000 ppm
Concentration per Run 2	0.000 ppm
Concentration per Run 3	0.000 ppm
Concentration RSD	
Concentration SD	

	Al 308.215 {109} (Radial)	B 249.678 {135} (Radial)	Be 313.042 {108} (Radial)	Ca 317.933 {106} (Radial)
Intensity average	11,210 cps	1 cps	1 cps	98,875 cps

	Ca 373.690 {90} (Radial)	Fe 259.940 {130} (Radial)	Fe 271.441 {124} (Radial)	K 766.490 {44} (Radial)
Intensity average	41,616 cps	25,123 cps	1,639 cps	27,592 cps

	Li 670.784 {50} (Radial)	Mg 279.079 {121} (Radial)	Na 589.592 {57} (Radial)	Sr 421.552 {80} (Radial)
Intensity average	35 cps	9,825 cps	445,141 cps	122 cps

	Ti 334.941 {101} (Radial)	V 292.402 {115} (Radial)	Co 228.616 {447} (Axial)	Ni 231.604 {446} (Axial)
Intensity average	41 cps	1 cps	3 cps	-9 cps

	Pb 220.353 {453} (Axial)	Sn 189.989 {478} (Axial)	Tl 190.856 {477} (Axial)	As 189.042 {478} (Axial)
Intensity average	-7 cps	1 cps	-1 cps	-6 cps

	Ba 233.527 {445} (Axial)	Mo 202.030 {467} (Axial)	S 182.034 {485} (Axial)	Si 251.611 {134} (Axial)
Intensity average	13 cps	1 cps	8,339 cps	23 cps

	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)	Cr 267.716 {126} (Axial)
Intensity average	0 cps	0 cps	-6 cps	7 cps

	Mn 257.610 {131} (Axial)	Y 360.073 {94} (Radial)	Y 224.306 {450} (Axial)	In 230.606 {446} (Axial)
Intensity average	238 cps	4,754 cps	7,028 cps	2,119 cps

	Y 360.073 {94} (Axial)	Na 818.326 {41} (Radial)	Zn 206.200 {463} (Axial)	Cd 228.802 {447} (Axial)
Intensity average	115,842 cps	21,756 cps	8 cps	0 cps

	Cu 324.754 {104} (Radial)
Intensity average	10 cps

Comprehensive sample report

11/28/2014 10:10:14 PM

STD6 14I24985

Sample Type STD Analysis Date 11/28/2014 2:58:52 PM

Dilution Factor 1

	Al 308.215 {109} (Radial)	B 249.678 {135} (Radial)	Be 313.042 {108} (Radial)	Ca 317.933 {106} (Radial)
Concentration average	500.369 ppm	0.000 ppm	0.000 ppm	0.000 ppm
Concentration per Run 1	501.005 ppm	0.000 ppm	0.000 ppm	0.000 ppm
Concentration per Run 2	501.652 ppm	0.000 ppm	0.000 ppm	0.000 ppm
Concentration per Run 3	498.451 ppm	0.000 ppm	0.000 ppm	0.000 ppm
Concentration RSD	0.3 %			
Concentration SD	1.7 ppm			

	Ca 373.690 {90} (Radial)	Fe 259.940 {130} (Radial)	Fe 271.441 {124} (Radial)	K 766.490 {44} (Radial)
Concentration average	498.703 ppm	0.000 ppm	199.014 ppm	100.421 ppm
Concentration per Run 1	499.462 ppm	0.000 ppm	198.751 ppm	100.612 ppm
Concentration per Run 2	499.497 ppm	0.000 ppm	199.767 ppm	100.390 ppm
Concentration per Run 3	497.150 ppm	0.000 ppm	198.524 ppm	100.261 ppm
Concentration RSD	0.3 %		0.3 %	0.2 %
Concentration SD	1.3 ppm		0.7 ppm	0.2 ppm

	Li 670.784 {50} (Radial)	Mg 279.079 {121} (Radial)	Na 589.592 {57} (Radial)	Sr 421.552 {80} (Radial)
Concentration average	0.000 ppm	499.788 ppm	0.000 ppm	0.000 ppm
Concentration per Run 1	0.000 ppm	500.202 ppm	0.000 ppm	0.000 ppm
Concentration per Run 2	0.000 ppm	500.573 ppm	0.000 ppm	0.000 ppm
Concentration per Run 3	0.000 ppm	498.589 ppm	0.000 ppm	0.000 ppm
Concentration RSD		0.2 %		
Concentration SD		1.1 ppm		

	Ti 334.941 {101} (Radial)	V 292.402 {115} (Radial)	Co 228.616 {447} (Axial)	Ni 231.604 {446} (Axial)
Concentration average	0.000 ppm	0.000 ppm	0.000 ppm	0.000 ppm
Concentration per Run 1	0.000 ppm	0.000 ppm	0.000 ppm	0.000 ppm
Concentration per Run 2	0.000 ppm	0.000 ppm	0.000 ppm	0.000 ppm
Concentration per Run 3	0.000 ppm	0.000 ppm	0.000 ppm	0.000 ppm
Concentration RSD				
Concentration SD				

	Pb 220.353 {453} (Axial)	Sn 189.989 {478} (Axial)	Tl 190.856 {477} (Axial)	As 189.042 {478} (Axial)
Concentration average	0.000 ppm	0.000 ppm	0.000 ppm	0.000 ppm
Concentration per Run 1	0.000 ppm	0.000 ppm	0.000 ppm	0.000 ppm
Concentration per Run 2	0.000 ppm	0.000 ppm	0.000 ppm	0.000 ppm
Concentration per Run 3	0.000 ppm	0.000 ppm	0.000 ppm	0.000 ppm
Concentration RSD				
Concentration SD				

	Ba 233.527 {445} (Axial)	Mo 202.030 {467} (Axial)	S 182.034 {485} (Axial)	Si 251.611 {134} (Axial)
Concentration average	0.000 ppm	0.000 ppm	100.997 ppm	0.000 ppm
Concentration per Run 1	0.000 ppm	0.000 ppm	101.337 ppm	0.000 ppm
Concentration per Run 2	0.000 ppm	0.000 ppm	99.714 ppm	0.000 ppm
Concentration per Run 3	0.000 ppm	0.000 ppm	101.939 ppm	0.000 ppm
Concentration RSD			1.1 %	
Concentration SD			1.2 ppm	

	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)	Cr 267.716 {126} (Axial)
Concentration average	0.000 ppm	0.000 ppm	0.000 ppm	0.000 ppm
Concentration per Run 1	0.000 ppm	0.000 ppm	0.000 ppm	0.000 ppm
Concentration per Run 2	0.000 ppm	0.000 ppm	0.000 ppm	0.000 ppm
Concentration per Run 3	0.000 ppm	0.000 ppm	0.000 ppm	0.000 ppm
Concentration RSD				
Concentration SD				

	Mn 257.610 {131} (Axial)	Y 360.073 {94} (Radial)	Y 224.306 {450} (Axial)	In 230.606 {446} (Axial)
Concentration average	0.000 ppm	95.413 %	83.087 %	66.737 %
Concentration per Run 1	0.000 ppm	95.144 %	82.813 %	66.630 %
Concentration per Run 2	0.000 ppm	95.296 %	84.232 %	67.629 %
Concentration per Run 3	0.000 ppm	95.799 %	82.217 %	65.951 %
Concentration RSD				
Concentration SD				

	Y 360.073 {94} (Axial)	Na 818.326 {41} (Radial)	Zn 206.200 {463} (Axial)	Cd 228.802 {447} (Axial)
Concentration average	83.525 %	500.888 ppm	0.000 ppm	0.000 ppm
Concentration per Run 1	83.414 %	501.157 ppm	0.000 ppm	0.000 ppm
Concentration per Run 2	83.327 %	500.661 ppm	0.000 ppm	0.000 ppm
Concentration per Run 3	83.835 %	500.847 ppm	0.000 ppm	0.000 ppm
Concentration RSD		0.0 %		
Concentration SD		0.3 ppm		

	Cu 324.754 {104} (Radial)
Concentration average	0.000 ppm
Concentration per Run 1	0.000 ppm
Concentration per Run 2	0.000 ppm
Concentration per Run 3	0.000 ppm
Concentration RSD	
Concentration SD	

	Al 308.215 {109} (Radial)	B 249.678 {135} (Radial)	Be 313.042 {108} (Radial)	Ca 317.933 {106} (Radial)
Intensity average	22,274 cps	0 cps	2 cps	189,354 cps

	Ca 373.690 {90} (Radial)	Fe 259.940 {130} (Radial)	Fe 271.441 {124} (Radial)	K 766.490 {44} (Radial)
Intensity average	81,344 cps	47,455 cps	3,170 cps	55,719 cps

	Li 670.784 {50} (Radial)	Mg 279.079 {121} (Radial)	Na 589.592 {57} (Radial)	Sr 421.552 {80} (Radial)
Intensity average	82 cps	19,414 cps	827,397 cps	232 cps

	Ti 334.941 {101} (Radial)	V 292.402 {115} (Radial)	Co 228.616 {447} (Axial)	Ni 231.604 {446} (Axial)
Intensity average	45 cps	2 cps	5 cps	-21 cps

	Pb 220.353 {453} (Axial)	Sn 189.989 {478} (Axial)	Tl 190.856 {477} (Axial)	As 189.042 {478} (Axial)
Intensity average	-12 cps	0 cps	0 cps	-8 cps

	Ba 233.527 {445} (Axial)	Mo 202.030 {467} (Axial)	S 182.034 {485} (Axial)	Si 251.611 {134} (Axial)
Intensity average	13 cps	0 cps	16,455 cps	21 cps

	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)	Cr 267.716 {126} (Axial)
Intensity average	1 cps	0 cps	-8 cps	10 cps

	Mn 257.610 {131} (Axial)	Y 360.073 {94} (Radial)	Y 224.306 {450} (Axial)	In 230.606 {446} (Axial)
Intensity average	428 cps	4,706 cps	6,663 cps	1,917 cps

	Y 360.073 {94} (Axial)	Na 818.326 {41} (Radial)	Zn 206.200 {463} (Axial)	Cd 228.802 {447} (Axial)
Intensity average	110,445 cps	43,622 cps	9 cps	-8 cps

	Cu 324.754 {104} (Radial)
Intensity average	10 cps

Comprehensive sample report

11/28/2014 10:10:14 PM

ICV 14I23903

Sample Type QC Analysis Date 11/28/2014 3:03:06 PM

Dilution Factor 1

	Al 308.215 {109} (Radial)	B 249.678 {135} (Radial)	Be 313.042 {108} (Radial)	Ca 317.933 {106} (Radial)
Concentration average	10.565 ppm	1.057 ppm	1.055 ppm	10.749 ppm
Concentration per Run 1	10.689 ppm	1.058 ppm	1.058 ppm	10.794 ppm
Concentration per Run 2	10.601 ppm	1.058 ppm	1.056 ppm	10.741 ppm
Concentration per Run 3	10.405 ppm	1.055 ppm	1.052 ppm	10.711 ppm
Concentration RSD	1.4 %	0.1 %	0.3 %	0.4 %
Concentration SD	0.1 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Ca 373.690 {90} (Radial)	Fe 259.940 {130} (Radial)	Fe 271.441 {124} (Radial)	K 766.490 {44} (Radial)
Concentration average	11.274 ppm	10.765 ppm	11.854 ppm	10.244 ppm
Concentration per Run 1	11.312 ppm	10.790 ppm	11.836 ppm	10.269 ppm
Concentration per Run 2	11.293 ppm	10.818 ppm	11.806 ppm	10.331 ppm
Concentration per Run 3	11.219 ppm	10.688 ppm	11.920 ppm	10.133 ppm
Concentration RSD	0.4 %	0.6 %	0.5 %	1.0 %
Concentration SD	0.0 ppm	0.1 ppm	0.1 ppm	0.1 ppm

	Li 670.784 {50} (Radial)	Mg 279.079 {121} (Radial)	Na 589.592 {57} (Radial)	Sr 421.552 {80} (Radial)
Concentration average	1.049 ppm	10.559 ppm	10.496 ppm	0.427 ppm
Concentration per Run 1	1.051 ppm	10.579 ppm	10.516 ppm	0.427 ppm
Concentration per Run 2	1.057 ppm	10.593 ppm	10.573 ppm	0.430 ppm
Concentration per Run 3	1.040 ppm	10.505 ppm	10.399 ppm	0.423 ppm
Concentration RSD	0.8 %	0.4 %	0.8 %	0.9 %
Concentration SD	0.0 ppm	0.0 ppm	0.1 ppm	0.0 ppm

	Ti 334.941 {101} (Radial)	V 292.402 {115} (Radial)	Co 228.616 {447} (Axial)	Ni 231.604 {446} (Axial)
Concentration average	0.995 ppm	1.072 ppm	1.051 ppm	1.039 ppm
Concentration per Run 1	0.997 ppm	1.082 ppm	1.054 ppm	1.041 ppm
Concentration per Run 2	0.999 ppm	1.069 ppm	1.052 ppm	1.041 ppm
Concentration per Run 3	0.988 ppm	1.064 ppm	1.046 ppm	1.034 ppm
Concentration RSD	0.6 %	0.8 %	0.4 %	0.4 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Pb 220.353 {453} (Axial)	Sn 189.989 {478} (Axial)	Tl 190.856 {477} (Axial)	As 189.042 {478} (Axial)
Concentration average	1.037 ppm	0.968 ppm	1.020 ppm	1.034 ppm
Concentration per Run 1	1.039 ppm	0.972 ppm	1.023 ppm	1.039 ppm
Concentration per Run 2	1.044 ppm	0.970 ppm	1.021 ppm	1.033 ppm
Concentration per Run 3	1.028 ppm	0.963 ppm	1.015 ppm	1.031 ppm
Concentration RSD	0.8 %	0.5 %	0.4 %	0.4 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Ba 233.527 {445} (Axial)	Mo 202.030 {467} (Axial)	S 182.034 {485} (Axial)	Si 251.611 {134} (Axial)
Concentration average	1.097 ppm	1.011 ppm	0.008 ppm	0.957 ppm
Concentration per Run 1	1.103 ppm	1.015 ppm	0.010 ppm	0.961 ppm
Concentration per Run 2	1.095 ppm	1.007 ppm	0.006 ppm	0.963 ppm
Concentration per Run 3	1.094 ppm	1.010 ppm	0.009 ppm	0.947 ppm
Concentration RSD	0.5 %	0.4 %	29.2 %	0.9 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)	Cr 267.716 {126} (Axial)
Concentration average	0.986 ppm	1.050 ppm	0.097 ppm	1.077 ppm
Concentration per Run 1	0.997 ppm	1.059 ppm	0.097 ppm	1.077 ppm
Concentration per Run 2	0.984 ppm	1.044 ppm	0.097 ppm	1.080 ppm
Concentration per Run 3	0.978 ppm	1.046 ppm	0.096 ppm	1.072 ppm
Concentration RSD	1.0 %	0.8 %	0.7 %	0.4 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Mn 257.610 {131} (Axial)	Y 360.073 {94} (Radial)	Y 224.306 {450} (Axial)	In 230.606 {446} (Axial)
Concentration average	1.069 ppm	98.994 %	97.132 %	92.890 %
Concentration per Run 1	1.075 ppm	98.709 %	96.601 %	92.615 %
Concentration per Run 2	1.072 ppm	98.472 %	97.352 %	92.792 %
Concentration per Run 3	1.061 ppm	99.801 %	97.443 %	93.263 %
Concentration RSD	0.7 %	0.7 %	0.5 %	0.4 %
Concentration SD	0.0 ppm	0.7 %	0.5 %	0.3 %

	Y 360.073 {94} (Axial)	Na 818.326 {41} (Radial)	Zn 206.200 {463} (Axial)	Cd 228.802 {447} (Axial)
Concentration average	97.555 %	10.554 ppm	1.056 ppm	1.047 ppm
Concentration per Run 1	97.310 %	10.567 ppm	1.061 ppm	1.052 ppm
Concentration per Run 2	96.874 %	10.651 ppm	1.055 ppm	1.047 ppm
Concentration per Run 3	98.481 %	10.443 ppm	1.053 ppm	1.043 ppm
Concentration RSD	0.9 %	1.0 %	0.4 %	0.4 %
Concentration SD	0.8 %	0.1 ppm	0.0 ppm	0.0 ppm

	Cu 324.754 {104} (Radial)
Concentration average	1.053 ppm
Concentration per Run 1	1.050 ppm
Concentration per Run 2	1.059 ppm
Concentration per Run 3	1.049 ppm
Concentration RSD	0.5 %
Concentration SD	0.0 ppm

	Al 308.215 {109} (Radial)	B 249.678 {135} (Radial)	Be 313.042 {108} (Radial)	Ca 317.933 {106} (Radial)
Intensity average	493 cps	215 cps	15,901 cps	4,680 cps

	Ca 373.690 {90} (Radial)	Fe 259.940 {130} (Radial)	Fe 271.441 {124} (Radial)	K 766.490 {44} (Radial)
Intensity average	1,918 cps	3,008 cps	196 cps	5,916 cps

	Li 670.784 {50} (Radial)	Mg 279.079 {121} (Radial)	Na 589.592 {57} (Radial)	Sr 421.552 {80} (Radial)
Intensity average	15,157 cps	425 cps	20,096 cps	13,610 cps

	Ti 334.941 {101} (Radial)	V 292.402 {115} (Radial)	Co 228.616 {447} (Axial)	Ni 231.604 {446} (Axial)
Intensity average	2,065 cps	477 cps	2,682 cps	1,865 cps

	Pb 220.353 {453} (Axial)	Sn 189.989 {478} (Axial)	Tl 190.856 {477} (Axial)	As 189.042 {478} (Axial)
Intensity average	648 cps	683 cps	486 cps	320 cps

	Ba 233.527 {445} (Axial)	Mo 202.030 {467} (Axial)	S 182.034 {485} (Axial)	Si 251.611 {134} (Axial)
Intensity average	5,824 cps	2,962 cps	4 cps	1,956 cps

	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)	Cr 267.716 {126} (Axial)
Intensity average	517 cps	293 cps	684 cps	5,238 cps

	Mn 257.610 {131} (Axial)	Y 360.073 {94} (Radial)	Y 224.306 {450} (Axial)	In 230.606 {446} (Axial)
Intensity average	40,786 cps	4,883 cps	7,789 cps	2,668 cps

	Y 360.073 {94} (Axial)	Na 818.326 {41} (Radial)	Zn 206.200 {463} (Axial)	Cd 228.802 {447} (Axial)
Intensity average	128,996 cps	800 cps	2,805 cps	4,437 cps

	Cu 324.754 {104} (Radial)
Intensity average	715 cps

Comprehensive sample report

11/28/2014 10:10:14 PM

ICB

Sample Type QC Analysis Date 11/28/2014 3:07:39 PM

Dilution Factor 1

	Al 308.215 {109} (Radial)	B 249.678 {135} (Radial)	Be 313.042 {108} (Radial)	Ca 317.933 {106} (Radial)
Concentration average	-0.037 ppm	0.006 ppm	0.000 ppm	0.007 ppm
Concentration per Run 1	-0.031 ppm	0.006 ppm	0.000 ppm	0.008 ppm
Concentration per Run 2	-0.008 ppm	0.008 ppm	0.000 ppm	0.013 ppm
Concentration per Run 3	-0.071 ppm	0.006 ppm	0.000 ppm	-0.001 ppm
Concentration RSD	86.5 %	17.2 %	73.0 %	102.9 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Ca 373.690 {90} (Radial)	Fe 259.940 {130} (Radial)	Fe 271.441 {124} (Radial)	K 766.490 {44} (Radial)
Concentration average	0.003 ppm	0.005 ppm	-0.006 ppm	0.022 ppm
Concentration per Run 1	0.010 ppm	0.007 ppm	-0.011 ppm	0.015 ppm
Concentration per Run 2	-0.012 ppm	0.006 ppm	-0.004 ppm	0.020 ppm
Concentration per Run 3	0.010 ppm	0.001 ppm	-0.004 ppm	0.031 ppm
Concentration RSD	427.4 %	62.4 %	57.2 %	37.9 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Li 670.784 {50} (Radial)	Mg 279.079 {121} (Radial)	Na 589.592 {57} (Radial)	Sr 421.552 {80} (Radial)
Concentration average	0.000 ppm	0.002 ppm	0.020 ppm	0.000 ppm
Concentration per Run 1	0.000 ppm	-0.009 ppm	0.023 ppm	0.000 ppm
Concentration per Run 2	-0.001 ppm	-0.023 ppm	0.020 ppm	0.000 ppm
Concentration per Run 3	0.000 ppm	0.039 ppm	0.018 ppm	0.000 ppm
Concentration RSD	172.5 %	1,532.7 %	12.4 %	338.3 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Ti 334.941 {101} (Radial)	V 292.402 {115} (Radial)	Co 228.616 {447} (Axial)	Ni 231.604 {446} (Axial)
Concentration average	0.000 ppm	0.004 ppm	0.000 ppm	0.000 ppm
Concentration per Run 1	0.000 ppm	0.008 ppm	0.000 ppm	0.000 ppm
Concentration per Run 2	-0.001 ppm	0.005 ppm	0.000 ppm	0.000 ppm
Concentration per Run 3	0.000 ppm	0.000 ppm	0.000 ppm	0.000 ppm
Concentration RSD	175.1 %	98.3 %	14.3 %	23.5 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Pb 220.353 {453} (Axial)	Sn 189.989 {478} (Axial)	Tl 190.856 {477} (Axial)	As 189.042 {478} (Axial)
Concentration average	0.000 ppm	-0.001 ppm	0.001 ppm	0.000 ppm
Concentration per Run 1	0.000 ppm	0.000 ppm	0.000 ppm	-0.001 ppm
Concentration per Run 2	0.001 ppm	-0.001 ppm	0.001 ppm	0.000 ppm
Concentration per Run 3	-0.001 ppm	-0.001 ppm	0.002 ppm	0.000 ppm
Concentration RSD	734.6 %	80.5 %	121.7 %	294.6 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Ba 233.527 {445} (Axial)	Mo 202.030 {467} (Axial)	S 182.034 {485} (Axial)	Si 251.611 {134} (Axial)
Concentration average	0.000 ppm	0.000 ppm	-0.008 ppm	-0.006 ppm
Concentration per Run 1	0.000 ppm	0.000 ppm	-0.009 ppm	-0.006 ppm
Concentration per Run 2	0.000 ppm	0.000 ppm	-0.005 ppm	-0.007 ppm
Concentration per Run 3	0.000 ppm	0.001 ppm	-0.010 ppm	-0.006 ppm
Concentration RSD	1,516.8 %	34.1 %	33.3 %	2.4 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)	Cr 267.716 {126} (Axial)
Concentration average	0.000 ppm	0.001 ppm	-0.001 ppm	0.000 ppm
Concentration per Run 1	0.000 ppm	0.002 ppm	-0.001 ppm	-0.001 ppm
Concentration per Run 2	-0.001 ppm	0.000 ppm	-0.001 ppm	0.000 ppm
Concentration per Run 3	0.002 ppm	0.000 ppm	-0.001 ppm	0.001 ppm
Concentration RSD	464.7 %	223.7 %	29.8 %	13,869.2 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Mn 257.610 {131} (Axial)	Y 360.073 {94} (Radial)	Y 224.306 {450} (Axial)	In 230.606 {446} (Axial)
Concentration average	0.000 ppm	99.150 %	100.527 %	100.100 %
Concentration per Run 1	0.000 ppm	99.166 %	99.941 %	99.774 %
Concentration per Run 2	0.000 ppm	98.827 %	100.805 %	100.329 %
Concentration per Run 3	0.000 ppm	99.457 %	100.835 %	100.197 %
Concentration RSD	26.3 %	0.3 %	0.5 %	0.3 %
Concentration SD	0.0 ppm	0.3 %	0.5 %	0.3 %

	Y 360.073 {94} (Axial)	Na 818.326 {41} (Radial)	Zn 206.200 {463} (Axial)	Cd 228.802 {447} (Axial)
Concentration average	100.611 %	-0.144 ppm	0.001 ppm	0.000 ppm
Concentration per Run 1	100.788 %	-0.273 ppm	0.001 ppm	0.000 ppm
Concentration per Run 2	100.002 %	-0.097 ppm	0.001 ppm	0.000 ppm
Concentration per Run 3	101.044 %	-0.062 ppm	0.001 ppm	0.000 ppm
Concentration RSD	0.5 %	78.8 %	19.8 %	69.7 %
Concentration SD	0.5 %	0.1 ppm	0.0 ppm	0.0 ppm

	Cu 324.754 {104} (Radial)
Concentration average	0.001 ppm
Concentration per Run 1	-0.001 ppm
Concentration per Run 2	0.001 ppm
Concentration per Run 3	0.003 ppm
Concentration RSD	239.2 %
Concentration SD	0.0 ppm

	Al 308.215 {109} (Radial)	B 249.678 {135} (Radial)	Be 313.042 {108} (Radial)	Ca 317.933 {106} (Radial)
Intensity average	3 cps	1 cps	2 cps	42 cps

	Ca 373.690 {90} (Radial)	Fe 259.940 {130} (Radial)	Fe 271.441 {124} (Radial)	K 766.490 {44} (Radial)
Intensity average	11 cps	3 cps	0 cps	33 cps

	Li 670.784 {50} (Radial)	Mg 279.079 {121} (Radial)	Na 589.592 {57} (Radial)	Sr 421.552 {80} (Radial)
Intensity average	-5 cps	0 cps	90 cps	0 cps

	Ti 334.941 {101} (Radial)	V 292.402 {115} (Radial)	Co 228.616 {447} (Axial)	Ni 231.604 {446} (Axial)
Intensity average	1 cps	1 cps	-1 cps	2 cps

	Pb 220.353 {453} (Axial)	Sn 189.989 {478} (Axial)	Tl 190.856 {477} (Axial)	As 189.042 {478} (Axial)
Intensity average	-1 cps	1 cps	-3 cps	-4 cps

	Ba 233.527 {445} (Axial)	Mo 202.030 {467} (Axial)	S 182.034 {485} (Axial)	Si 251.611 {134} (Axial)
Intensity average	2 cps	4 cps	1 cps	19 cps

	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)	Cr 267.716 {126} (Axial)
Intensity average	2 cps	-2 cps	0 cps	3 cps

	Mn 257.610 {131} (Axial)	Y 360.073 {94} (Radial)	Y 224.306 {450} (Axial)	In 230.606 {446} (Axial)
Intensity average	12 cps	4,890 cps	8,062 cps	2,875 cps

	Y 360.073 {94} (Axial)	Na 818.326 {41} (Radial)	Zn 206.200 {463} (Axial)	Cd 228.802 {447} (Axial)
Intensity average	133,038 cps	-170 cps	2 cps	5 cps

	Cu 324.754 {104} (Radial)
Intensity average	7 cps

Comprehensive sample report

11/28/2014 10:10:14 PM

ICVLL 14G16199

Sample Type QC Analysis Date 11/28/2014 3:12:13 PM

Dilution Factor 1

	Al 308.215 {109} (Radial)	B 249.678 {135} (Radial)	Be 313.042 {108} (Radial)	Ca 317.933 {106} (Radial)
Concentration average	0.120 ppm	0.203 ppm	0.002 ppm	0.548 ppm
Concentration per Run 1	0.115 ppm	0.204 ppm	0.002 ppm	0.541 ppm
Concentration per Run 2	0.078 ppm	0.210 ppm	0.002 ppm	0.563 ppm
Concentration per Run 3	0.165 ppm	0.196 ppm	0.002 ppm	0.541 ppm
Concentration RSD	36.6 %	3.5 %	5.3 %	2.4 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Ca 373.690 {90} (Radial)	Fe 259.940 {130} (Radial)	Fe 271.441 {124} (Radial)	K 766.490 {44} (Radial)
Concentration average	0.571 ppm	0.112 ppm	0.137 ppm	0.511 ppm
Concentration per Run 1	0.567 ppm	0.117 ppm	0.170 ppm	0.526 ppm
Concentration per Run 2	0.578 ppm	0.112 ppm	0.062 ppm	0.513 ppm
Concentration per Run 3	0.569 ppm	0.108 ppm	0.178 ppm	0.494 ppm
Concentration RSD	1.0 %	3.9 %	47.7 %	3.2 %
Concentration SD	0.0 ppm	0.0 ppm	0.1 ppm	0.0 ppm

	Li 670.784 {50} (Radial)	Mg 279.079 {121} (Radial)	Na 589.592 {57} (Radial)	Sr 421.552 {80} (Radial)
Concentration average	0.015 ppm	0.117 ppm	0.516 ppm	0.010 ppm
Concentration per Run 1	0.014 ppm	0.104 ppm	0.516 ppm	0.010 ppm
Concentration per Run 2	0.015 ppm	0.149 ppm	0.524 ppm	0.010 ppm
Concentration per Run 3	0.015 ppm	0.100 ppm	0.508 ppm	0.010 ppm
Concentration RSD	2.6 %	23.1 %	1.5 %	1.4 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Ti 334.941 {101} (Radial)	V 292.402 {115} (Radial)	Co 228.616 {447} (Axial)	Ni 231.604 {446} (Axial)
Concentration average	0.010 ppm	0.011 ppm	0.010 ppm	0.020 ppm
Concentration per Run 1	0.010 ppm	0.010 ppm	0.010 ppm	0.019 ppm
Concentration per Run 2	0.009 ppm	0.010 ppm	0.010 ppm	0.020 ppm
Concentration per Run 3	0.009 ppm	0.012 ppm	0.010 ppm	0.019 ppm
Concentration RSD	6.3 %	10.2 %	1.7 %	2.3 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Pb 220.353 {453} (Axial)	Sn 189.989 {478} (Axial)	Tl 190.856 {477} (Axial)	As 189.042 {478} (Axial)
Concentration average	0.005 ppm	0.018 ppm	0.021 ppm	0.018 ppm
Concentration per Run 1	0.004 ppm	0.018 ppm	0.020 ppm	0.015 ppm
Concentration per Run 2	0.005 ppm	0.018 ppm	0.021 ppm	0.017 ppm
Concentration per Run 3	0.006 ppm	0.019 ppm	0.022 ppm	0.020 ppm
Concentration RSD	14.0 %	2.5 %	3.2 %	14.7 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Ba 233.527 {445} (Axial)	Mo 202.030 {467} (Axial)	S 182.034 {485} (Axial)	Si 251.611 {134} (Axial)
Concentration average	0.006 ppm	0.005 ppm	-0.005 ppm	0.184 ppm
Concentration per Run 1	0.006 ppm	0.005 ppm	-0.006 ppm	0.186 ppm
Concentration per Run 2	0.006 ppm	0.005 ppm	-0.004 ppm	0.182 ppm
Concentration per Run 3	0.006 ppm	0.005 ppm	-0.005 ppm	0.185 ppm
Concentration RSD	0.5 %	4.8 %	21.2 %	1.1 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)	Cr 267.716 {126} (Axial)
Concentration average	0.018 ppm	0.021 ppm	0.009 ppm	0.010 ppm
Concentration per Run 1	0.018 ppm	0.020 ppm	0.009 ppm	0.010 ppm
Concentration per Run 2	0.018 ppm	0.021 ppm	0.009 ppm	0.011 ppm
Concentration per Run 3	0.018 ppm	0.022 ppm	0.009 ppm	0.010 ppm
Concentration RSD	2.0 %	6.9 %	0.7 %	3.4 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Mn 257.610 {131} (Axial)	Y 360.073 {94} (Radial)	Y 224.306 {450} (Axial)	In 230.606 {446} (Axial)
Concentration average	0.010 ppm	100.089 %	101.459 %	100.636 %
Concentration per Run 1	0.010 ppm	100.747 %	101.882 %	100.999 %
Concentration per Run 2	0.011 ppm	98.124 %	101.061 %	100.392 %
Concentration per Run 3	0.010 ppm	101.395 %	101.433 %	100.517 %
Concentration RSD	1.1 %	1.7 %	0.4 %	0.3 %
Concentration SD	0.0 ppm	1.7 %	0.4 %	0.3 %

	Y 360.073 {94} (Axial)	Na 818.326 {41} (Radial)	Zn 206.200 {463} (Axial)	Cd 228.802 {447} (Axial)
Concentration average	101.646 %	0.480 ppm	0.031 ppm	0.005 ppm
Concentration per Run 1	101.366 %	0.567 ppm	0.031 ppm	0.005 ppm
Concentration per Run 2	102.280 %	0.436 ppm	0.031 ppm	0.005 ppm
Concentration per Run 3	101.291 %	0.436 ppm	0.032 ppm	0.005 ppm
Concentration RSD	0.5 %	15.8 %	1.5 %	1.9 %
Concentration SD	0.6 %	0.1 ppm	0.0 ppm	0.0 ppm

	Cu 324.754 {104} (Radial)
Concentration average	0.023 ppm
Concentration per Run 1	0.024 ppm
Concentration per Run 2	0.022 ppm
Concentration per Run 3	0.023 ppm
Concentration RSD	5.1 %
Concentration SD	0.0 ppm

	Al 308.215 {109} (Radial)	B 249.678 {135} (Radial)	Be 313.042 {108} (Radial)	Ca 317.933 {106} (Radial)
Intensity average	10 cps	42 cps	29 cps	279 cps

	Ca 373.690 {90} (Radial)	Fe 259.940 {130} (Radial)	Fe 271.441 {124} (Radial)	K 766.490 {44} (Radial)
Intensity average	108 cps	33 cps	3 cps	318 cps

	Li 670.784 {50} (Radial)	Mg 279.079 {121} (Radial)	Na 589.592 {57} (Radial)	Sr 421.552 {80} (Radial)
Intensity average	214 cps	5 cps	1,048 cps	328 cps

	Ti 334.941 {101} (Radial)	V 292.402 {115} (Radial)	Co 228.616 {447} (Axial)	Ni 231.604 {446} (Axial)
Intensity average	22 cps	4 cps	25 cps	39 cps

	Pb 220.353 {453} (Axial)	Sn 189.989 {478} (Axial)	Tl 190.856 {477} (Axial)	As 189.042 {478} (Axial)
Intensity average	2 cps	16 cps	7 cps	2 cps

	Ba 233.527 {445} (Axial)	Mo 202.030 {467} (Axial)	S 182.034 {485} (Axial)	Si 251.611 {134} (Axial)
Intensity average	34 cps	18 cps	2 cps	419 cps

	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)	Cr 267.716 {126} (Axial)
Intensity average	12 cps	4 cps	70 cps	54 cps

	Mn 257.610 {131} (Axial)	Y 360.073 {94} (Radial)	Y 224.306 {450} (Axial)	In 230.606 {446} (Axial)
Intensity average	418 cps	4,937 cps	8,136 cps	2,890 cps

	Y 360.073 {94} (Axial)	Na 818.326 {41} (Radial)	Zn 206.200 {463} (Axial)	Cd 228.802 {447} (Axial)
Intensity average	134,406 cps	-114 cps	86 cps	27 cps

	Cu 324.754 {104} (Radial)
Intensity average	22 cps

Comprehensive sample report

11/28/2014 10:10:14 PM

ICSA 14J10823

Sample Type QC Analysis Date 11/28/2014 3:16:43 PM

Dilution Factor 1

	Al 308.215 {109} (Radial)	B 249.678 {135} (Radial)	Be 313.042 {108} (Radial)	Ca 317.933 {106} (Radial)
Concentration average	498.044 ppm	0.004 ppm	0.000 ppm	453.763 ppm
Concentration per Run 1	497.487 ppm	0.007 ppm	0.000 ppm	455.159 ppm
Concentration per Run 2	499.143 ppm	0.002 ppm	0.000 ppm	453.844 ppm
Concentration per Run 3	497.502 ppm	0.003 ppm	0.000 ppm	452.286 ppm
Concentration RSD	0.2 %	72.3 %	517.9 %	0.3 %
Concentration SD	1.0 ppm	0.0 ppm	0.0 ppm	1.4 ppm

	Ca 373.690 {90} (Radial)	Fe 259.940 {130} (Radial)	Fe 271.441 {124} (Radial)	K 766.490 {44} (Radial)
Concentration average	499.814 ppm	176.846 ppm	199.722 ppm	0.067 ppm
Concentration per Run 1	500.085 ppm	177.304 ppm	200.593 ppm	0.069 ppm
Concentration per Run 2	500.331 ppm	176.555 ppm	199.614 ppm	0.080 ppm
Concentration per Run 3	499.025 ppm	176.679 ppm	198.960 ppm	0.051 ppm
Concentration RSD	0.1 %	0.2 %	0.4 %	22.6 %
Concentration SD	0.7 ppm	0.4 ppm	0.8 ppm	0.0 ppm

	Li 670.784 {50} (Radial)	Mg 279.079 {121} (Radial)	Na 589.592 {57} (Radial)	Sr 421.552 {80} (Radial)
Concentration average	0.004 ppm	510.801 ppm	0.053 ppm	0.008 ppm
Concentration per Run 1	0.004 ppm	511.734 ppm	0.049 ppm	0.008 ppm
Concentration per Run 2	0.004 ppm	511.048 ppm	0.058 ppm	0.007 ppm
Concentration per Run 3	0.004 ppm	509.620 ppm	0.052 ppm	0.008 ppm
Concentration RSD	2.5 %	0.2 %	8.3 %	1.4 %
Concentration SD	0.0 ppm	1.1 ppm	0.0 ppm	0.0 ppm

	Ti 334.941 {101} (Radial)	V 292.402 {115} (Radial)	Co 228.616 {447} (Axial)	Ni 231.604 {446} (Axial)
Concentration average	0.000 ppm	0.008 ppm	0.001 ppm	-0.019 ppm
Concentration per Run 1	-0.001 ppm	0.009 ppm	0.002 ppm	-0.019 ppm
Concentration per Run 2	-0.001 ppm	0.008 ppm	0.001 ppm	-0.019 ppm
Concentration per Run 3	0.000 ppm	0.006 ppm	0.002 ppm	-0.018 ppm
Concentration RSD	61.1 %	15.1 %	7.3 %	4.3 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Pb 220.353 {453} (Axial)	Sn 189.989 {478} (Axial)	Tl 190.856 {477} (Axial)	As 189.042 {478} (Axial)
Concentration average	-0.025 ppm	0.000 ppm	0.004 ppm	-0.024 ppm
Concentration per Run 1	-0.027 ppm	-0.001 ppm	0.003 ppm	-0.024 ppm
Concentration per Run 2	-0.025 ppm	0.002 ppm	0.008 ppm	-0.025 ppm
Concentration per Run 3	-0.022 ppm	-0.001 ppm	0.002 ppm	-0.024 ppm
Concentration RSD	10.9 %	770.8 %	71.1 %	1.2 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Ba 233.527 {445} (Axial)	Mo 202.030 {467} (Axial)	S 182.034 {485} (Axial)	Si 251.611 {134} (Axial)
Concentration average	0.002 ppm	0.000 ppm	-0.011 ppm	-0.010 ppm
Concentration per Run 1	0.003 ppm	0.000 ppm	-0.012 ppm	-0.009 ppm
Concentration per Run 2	0.002 ppm	0.000 ppm	-0.010 ppm	-0.011 ppm
Concentration per Run 3	0.002 ppm	-0.001 ppm	-0.010 ppm	-0.009 ppm
Concentration RSD	11.6 %	170.3 %	12.3 %	9.9 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)	Cr 267.716 {126} (Axial)
Concentration average	-0.003 ppm	0.007 ppm	-0.001 ppm	0.002 ppm
Concentration per Run 1	-0.006 ppm	0.007 ppm	-0.001 ppm	0.002 ppm
Concentration per Run 2	-0.002 ppm	0.009 ppm	-0.001 ppm	0.001 ppm
Concentration per Run 3	-0.001 ppm	0.006 ppm	-0.001 ppm	0.002 ppm
Concentration RSD	87.9 %	20.2 %	34.7 %	27.3 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Mn 257.610 {131} (Axial)	Y 360.073 {94} (Radial)	Y 224.306 {450} (Axial)	In 230.606 {446} (Axial)
Concentration average	-0.005 ppm	96.735 %	85.728 %	71.915 %
Concentration per Run 1	-0.005 ppm	96.435 %	85.801 %	71.987 %
Concentration per Run 2	-0.005 ppm	96.701 %	85.455 %	71.625 %
Concentration per Run 3	-0.005 ppm	97.070 %	85.927 %	72.134 %
Concentration RSD	4.5 %	0.3 %	0.3 %	0.4 %
Concentration SD	0.0 ppm	0.3 %	0.2 %	0.3 %

	Y 360.073 {94} (Axial)	Na 818.326 {41} (Radial)	Zn 206.200 {463} (Axial)	Cd 228.802 {447} (Axial)
Concentration average	85.737 %	0.143 ppm	0.006 ppm	-0.003 ppm
Concentration per Run 1	86.072 %	0.266 ppm	0.006 ppm	-0.003 ppm
Concentration per Run 2	85.601 %	0.064 ppm	0.006 ppm	-0.003 ppm
Concentration per Run 3	85.538 %	0.099 ppm	0.006 ppm	-0.003 ppm
Concentration RSD	0.3 %	75.4 %	2.1 %	6.8 %
Concentration SD	0.3 %	0.1 ppm	0.0 ppm	0.0 ppm

	Cu 324.754 {104} (Radial)
Concentration average	0.006 ppm
Concentration per Run 1	0.008 ppm
Concentration per Run 2	0.006 ppm
Concentration per Run 3	0.005 ppm
Concentration RSD	26.6 %
Concentration SD	0.0 ppm

	Al 308.215 {109} (Radial)	B 249.678 {135} (Radial)	Be 313.042 {108} (Radial)	Ca 317.933 {106} (Radial)
Intensity average	22,478 cps	1 cps	0 cps	191,482 cps

	Ca 373.690 {90} (Radial)	Fe 259.940 {130} (Radial)	Fe 271.441 {124} (Radial)	K 766.490 {44} (Radial)
Intensity average	82,656 cps	48,269 cps	3,226 cps	58 cps

	Li 670.784 {50} (Radial)	Mg 279.079 {121} (Radial)	Na 589.592 {57} (Radial)	Sr 421.552 {80} (Radial)
Intensity average	51 cps	20,116 cps	149 cps	234 cps

	Ti 334.941 {101} (Radial)	V 292.402 {115} (Radial)	Co 228.616 {447} (Axial)	Ni 231.604 {446} (Axial)
Intensity average	1 cps	3 cps	1 cps	-25 cps

	Pb 220.353 {453} (Axial)	Sn 189.989 {478} (Axial)	Tl 190.856 {477} (Axial)	As 189.042 {478} (Axial)
Intensity average	-13 cps	1 cps	-1 cps	-10 cps

	Ba 233.527 {445} (Axial)	Mo 202.030 {467} (Axial)	S 182.034 {485} (Axial)	Si 251.611 {134} (Axial)
Intensity average	13 cps	1 cps	1 cps	10 cps

	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)	Cr 267.716 {126} (Axial)
Intensity average	0 cps	0 cps	1 cps	9 cps

	Mn 257.610 {131} (Axial)	Y 360.073 {94} (Radial)	Y 224.306 {450} (Axial)	In 230.606 {446} (Axial)
Intensity average	-154 cps	4,771 cps	6,875 cps	2,066 cps

	Y 360.073 {94} (Axial)	Na 818.326 {41} (Radial)	Zn 206.200 {463} (Axial)	Cd 228.802 {447} (Axial)
Intensity average	113,370 cps	-140 cps	14 cps	-7 cps

	Cu 324.754 {104} (Radial)
Intensity average	10 cps

Comprehensive sample report

11/28/2014 10:10:14 PM

ICSAB 14J10824

Sample Type QC Analysis Date 11/28/2014 3:20:56 PM

Dilution Factor 1

	Al 308.215 {109} (Radial)	B 249.678 {135} (Radial)	Be 313.042 {108} (Radial)	Ca 317.933 {106} (Radial)
Concentration average	496.685 ppm	0.965 ppm	0.477 ppm	455.281 ppm
Concentration per Run 1	497.055 ppm	0.953 ppm	0.478 ppm	458.993 ppm
Concentration per Run 2	495.894 ppm	0.978 ppm	0.474 ppm	453.384 ppm
Concentration per Run 3	497.105 ppm	0.963 ppm	0.478 ppm	453.467 ppm
Concentration RSD	0.1 %	1.3 %	0.5 %	0.7 %
Concentration SD	0.7 ppm	0.0 ppm	0.0 ppm	3.2 ppm

	Ca 373.690 {90} (Radial)	Fe 259.940 {130} (Radial)	Fe 271.441 {124} (Radial)	K 766.490 {44} (Radial)
Concentration average	500.585 ppm	176.872 ppm	200.106 ppm	0.049 ppm
Concentration per Run 1	502.459 ppm	177.865 ppm	200.777 ppm	0.056 ppm
Concentration per Run 2	498.935 ppm	176.207 ppm	199.487 ppm	0.037 ppm
Concentration per Run 3	500.360 ppm	176.543 ppm	200.053 ppm	0.053 ppm
Concentration RSD	0.4 %	0.5 %	0.3 %	21.6 %
Concentration SD	1.8 ppm	0.9 ppm	0.6 ppm	0.0 ppm

	Li 670.784 {50} (Radial)	Mg 279.079 {121} (Radial)	Na 589.592 {57} (Radial)	Sr 421.552 {80} (Radial)
Concentration average	0.004 ppm	511.881 ppm	0.049 ppm	0.008 ppm
Concentration per Run 1	0.004 ppm	514.684 ppm	0.045 ppm	0.008 ppm
Concentration per Run 2	0.004 ppm	510.098 ppm	0.049 ppm	0.008 ppm
Concentration per Run 3	0.003 ppm	510.862 ppm	0.052 ppm	0.007 ppm
Concentration RSD	4.3 %	0.5 %	7.3 %	1.8 %
Concentration SD	0.0 ppm	2.5 ppm	0.0 ppm	0.0 ppm

	Ti 334.941 {101} (Radial)	V 292.402 {115} (Radial)	Co 228.616 {447} (Axial)	Ni 231.604 {446} (Axial)
Concentration average	0.477 ppm	0.473 ppm	0.495 ppm	0.962 ppm
Concentration per Run 1	0.479 ppm	0.478 ppm	0.495 ppm	0.963 ppm
Concentration per Run 2	0.475 ppm	0.473 ppm	0.495 ppm	0.963 ppm
Concentration per Run 3	0.476 ppm	0.466 ppm	0.496 ppm	0.958 ppm
Concentration RSD	0.5 %	1.3 %	0.1 %	0.3 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Pb 220.353 {453} (Axial)	Sn 189.989 {478} (Axial)	Tl 190.856 {477} (Axial)	As 189.042 {478} (Axial)
Concentration average	0.950 ppm	0.495 ppm	0.469 ppm	0.487 ppm
Concentration per Run 1	0.946 ppm	0.495 ppm	0.470 ppm	0.488 ppm
Concentration per Run 2	0.952 ppm	0.495 ppm	0.470 ppm	0.488 ppm
Concentration per Run 3	0.952 ppm	0.495 ppm	0.467 ppm	0.487 ppm
Concentration RSD	0.3 %	0.1 %	0.4 %	0.2 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Ba 233.527 {445} (Axial)	Mo 202.030 {467} (Axial)	S 182.034 {485} (Axial)	Si 251.611 {134} (Axial)
Concentration average	0.488 ppm	0.462 ppm	-0.011 ppm	1.009 ppm
Concentration per Run 1	0.490 ppm	0.462 ppm	-0.013 ppm	1.009 ppm
Concentration per Run 2	0.487 ppm	0.462 ppm	-0.011 ppm	1.008 ppm
Concentration per Run 3	0.487 ppm	0.462 ppm	-0.009 ppm	1.010 ppm
Concentration RSD	0.3 %	0.1 %	17.0 %	0.1 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)	Cr 267.716 {126} (Axial)
Concentration average	0.513 ppm	0.522 ppm	1.123 ppm	0.467 ppm
Concentration per Run 1	0.519 ppm	0.524 ppm	1.132 ppm	0.471 ppm
Concentration per Run 2	0.510 ppm	0.522 ppm	1.115 ppm	0.465 ppm
Concentration per Run 3	0.511 ppm	0.520 ppm	1.120 ppm	0.465 ppm
Concentration RSD	0.9 %	0.4 %	0.8 %	0.8 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Mn 257.610 {131} (Axial)	Y 360.073 {94} (Radial)	Y 224.306 {450} (Axial)	In 230.606 {446} (Axial)
Concentration average	0.462 ppm	95.742 %	85.453 %	71.681 %
Concentration per Run 1	0.465 ppm	95.155 %	84.825 %	71.271 %
Concentration per Run 2	0.459 ppm	96.007 %	85.866 %	71.907 %
Concentration per Run 3	0.460 ppm	96.065 %	85.670 %	71.866 %
Concentration RSD	0.7 %	0.5 %	0.6 %	0.5 %
Concentration SD	0.0 ppm	0.5 %	0.6 %	0.4 %

	Y 360.073 {94} (Axial)	Na 818.326 {41} (Radial)	Zn 206.200 {463} (Axial)	Cd 228.802 {447} (Axial)
Concentration average	85.785 %	0.048 ppm	0.901 ppm	1.048 ppm
Concentration per Run 1	85.545 %	0.122 ppm	0.900 ppm	1.054 ppm
Concentration per Run 2	86.203 %	0.057 ppm	0.903 ppm	1.047 ppm
Concentration per Run 3	85.607 %	-0.036 ppm	0.900 ppm	1.043 ppm
Concentration RSD	0.4 %	167.0 %	0.2 %	0.5 %
Concentration SD	0.4 %	0.1 ppm	0.0 ppm	0.0 ppm

	Cu 324.754 {104} (Radial)
Concentration average	0.491 ppm
Concentration per Run 1	0.491 ppm
Concentration per Run 2	0.492 ppm
Concentration per Run 3	0.490 ppm
Concentration RSD	0.2 %
Concentration SD	0.0 ppm

	Al 308.215 {109} (Radial)	B 249.678 {135} (Radial)	Be 313.042 {108} (Radial)	Ca 317.933 {106} (Radial)
Intensity average	22,187 cps	190 cps	6,944 cps	190,148 cps

	Ca 373.690 {90} (Radial)	Fe 259.940 {130} (Radial)	Fe 271.441 {124} (Radial)	K 766.490 {44} (Radial)
Intensity average	81,933 cps	47,780 cps	3,199 cps	47 cps

	Li 670.784 {50} (Radial)	Mg 279.079 {121} (Radial)	Na 589.592 {57} (Radial)	Sr 421.552 {80} (Radial)
Intensity average	50 cps	19,952 cps	139 cps	234 cps

	Ti 334.941 {101} (Radial)	V 292.402 {115} (Radial)	Co 228.616 {447} (Axial)	Ni 231.604 {446} (Axial)
Intensity average	958 cps	203 cps	974 cps	1,332 cps

	Pb 220.353 {453} (Axial)	Sn 189.989 {478} (Axial)	Tl 190.856 {477} (Axial)	As 189.042 {478} (Axial)
Intensity average	458 cps	270 cps	171 cps	131 cps

	Ba 233.527 {445} (Axial)	Mo 202.030 {467} (Axial)	S 182.034 {485} (Axial)	Si 251.611 {134} (Axial)
Intensity average	2,279 cps	1,191 cps	1 cps	1,812 cps

	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)	Cr 267.716 {126} (Axial)
Intensity average	237 cps	127 cps	6,908 cps	1,999 cps

	Mn 257.610 {131} (Axial)	Y 360.073 {94} (Radial)	Y 224.306 {450} (Axial)	In 230.606 {446} (Axial)
Intensity average	15,486 cps	4,722 cps	6,853 cps	2,059 cps

	Y 360.073 {94} (Axial)	Na 818.326 {41} (Radial)	Zn 206.200 {463} (Axial)	Cd 228.802 {447} (Axial)
Intensity average	113,433 cps	-147 cps	2,106 cps	3,906 cps

	Cu 324.754 {104} (Radial)
Intensity average	326 cps

Comprehensive sample report

11/28/2014 10:10:14 PM

carryover

Sample Type UNKNOWN Analysis Date 11/28/2014 3:25:27 PM

Dilution Factor 1

	Al 308.215 {109} (Radial)	B 249.678 {135} (Radial)	Be 313.042 {108} (Radial)	Ca 317.933 {106} (Radial)
Concentration average	0.056 ppm	0.005 ppm	0.000 ppm	0.141 ppm
Concentration per Run 1	0.114 ppm	0.004 ppm	0.000 ppm	0.137 ppm
Concentration per Run 2	0.026 ppm	0.000 ppm	0.000 ppm	0.146 ppm
Concentration per Run 3	0.027 ppm	0.012 ppm	0.000 ppm	0.141 ppm
Concentration RSD	91.3 %	108.0 %	43.3 %	3.2 %
Concentration SD	0.1 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Ca 373.690 {90} (Radial)	Fe 259.940 {130} (Radial)	Fe 271.441 {124} (Radial)	K 766.490 {44} (Radial)
Concentration average	0.149 ppm	0.061 ppm	0.047 ppm	0.002 ppm
Concentration per Run 1	0.160 ppm	0.061 ppm	0.032 ppm	0.007 ppm
Concentration per Run 2	0.152 ppm	0.060 ppm	-0.041 ppm	0.012 ppm
Concentration per Run 3	0.135 ppm	0.061 ppm	0.150 ppm	-0.012 ppm
Concentration RSD	8.8 %	0.7 %	203.4 %	537.9 %
Concentration SD	0.0 ppm	0.0 ppm	0.1 ppm	0.0 ppm

	Li 670.784 {50} (Radial)	Mg 279.079 {121} (Radial)	Na 589.592 {57} (Radial)	Sr 421.552 {80} (Radial)
Concentration average	0.000 ppm	0.062 ppm	-0.001 ppm	0.000 ppm
Concentration per Run 1	0.001 ppm	0.072 ppm	-0.002 ppm	0.000 ppm
Concentration per Run 2	0.000 ppm	0.025 ppm	0.001 ppm	0.000 ppm
Concentration per Run 3	0.000 ppm	0.090 ppm	-0.002 ppm	0.000 ppm
Concentration RSD	542.2 %	53.6 %	137.8 %	22.3 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Ti 334.941 {101} (Radial)	V 292.402 {115} (Radial)	Co 228.616 {447} (Axial)	Ni 231.604 {446} (Axial)
Concentration average	-0.001 ppm	0.004 ppm	0.001 ppm	0.000 ppm
Concentration per Run 1	-0.002 ppm	0.001 ppm	0.001 ppm	0.000 ppm
Concentration per Run 2	-0.002 ppm	0.003 ppm	0.000 ppm	0.001 ppm
Concentration per Run 3	-0.001 ppm	0.008 ppm	0.001 ppm	0.000 ppm
Concentration RSD	51.4 %	91.0 %	25.4 %	109.8 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Pb 220.353 {453} (Axial)	Sn 189.989 {478} (Axial)	Tl 190.856 {477} (Axial)	As 189.042 {478} (Axial)
Concentration average	0.000 ppm	-0.001 ppm	0.003 ppm	0.001 ppm
Concentration per Run 1	0.001 ppm	-0.001 ppm	0.003 ppm	0.004 ppm
Concentration per Run 2	0.000 ppm	-0.001 ppm	0.002 ppm	0.001 ppm
Concentration per Run 3	0.000 ppm	-0.001 ppm	0.003 ppm	-0.001 ppm
Concentration RSD	84.8 %	45.6 %	21.7 %	187.0 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Ba 233.527 {445} (Axial)	Mo 202.030 {467} (Axial)	S 182.034 {485} (Axial)	Si 251.611 {134} (Axial)
Concentration average	0.000 ppm	0.000 ppm	0.003 ppm	0.001 ppm
Concentration per Run 1	0.000 ppm	0.000 ppm	0.004 ppm	0.001 ppm
Concentration per Run 2	0.000 ppm	0.000 ppm	0.002 ppm	0.000 ppm
Concentration per Run 3	0.000 ppm	0.000 ppm	0.003 ppm	0.002 ppm
Concentration RSD	39.1 %	654.8 %	33.0 %	90.7 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)	Cr 267.716 {126} (Axial)
Concentration average	-0.002 ppm	0.001 ppm	-0.001 ppm	0.000 ppm
Concentration per Run 1	-0.002 ppm	-0.001 ppm	-0.001 ppm	0.001 ppm
Concentration per Run 2	-0.001 ppm	0.002 ppm	-0.001 ppm	0.000 ppm
Concentration per Run 3	-0.002 ppm	0.001 ppm	-0.001 ppm	0.000 ppm
Concentration RSD	38.9 %	158.9 %	9.2 %	500.9 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Mn 257.610 {131} (Axial)	Y 360.073 {94} (Radial)	Y 224.306 {450} (Axial)	In 230.606 {446} (Axial)
Concentration average	0.000 ppm	104.172 %	102.200 %	101.669 %
Concentration per Run 1	0.000 ppm	106.285 %	102.159 %	101.985 %
Concentration per Run 2	0.000 ppm	103.504 %	101.807 %	101.269 %
Concentration per Run 3	0.000 ppm	102.725 %	102.635 %	101.753 %
Concentration RSD	13.4 %	1.8 %	0.4 %	0.4 %
Concentration SD	0.0 ppm	1.9 %	0.4 %	0.4 %

	Y 360.073 {94} (Axial)	Na 818.326 {41} (Radial)	Zn 206.200 {463} (Axial)	Cd 228.802 {447} (Axial)
Concentration average	102.328 %	0.163 ppm	0.002 ppm	0.000 ppm
Concentration per Run 1	101.754 %	0.292 ppm	0.002 ppm	0.000 ppm
Concentration per Run 2	103.046 %	0.141 ppm	0.002 ppm	0.000 ppm
Concentration per Run 3	102.185 %	0.057 ppm	0.002 ppm	0.000 ppm
Concentration RSD	0.6 %	73.1 %	6.4 %	476.3 %
Concentration SD	0.7 %	0.1 ppm	0.0 ppm	0.0 ppm

	Cu 324.754 {104} (Radial)
Concentration average	-0.001 ppm
Concentration per Run 1	0.003 ppm
Concentration per Run 2	-0.002 ppm
Concentration per Run 3	-0.004 ppm
Concentration RSD	528.9 %
Concentration SD	0.0 ppm

	Al 308.215 {109} (Radial)	B 249.678 {135} (Radial)	Be 313.042 {108} (Radial)	Ca 317.933 {106} (Radial)
Intensity average	8 cps	1 cps	1 cps	105 cps

	Ca 373.690 {90} (Radial)	Fe 259.940 {130} (Radial)	Fe 271.441 {124} (Radial)	K 766.490 {44} (Radial)
Intensity average	37 cps	19 cps	1 cps	23 cps

	Li 670.784 {50} (Radial)	Mg 279.079 {121} (Radial)	Na 589.592 {57} (Radial)	Sr 421.552 {80} (Radial)
Intensity average	2 cps	3 cps	51 cps	6 cps

	Ti 334.941 {101} (Radial)	V 292.402 {115} (Radial)	Co 228.616 {447} (Axial)	Ni 231.604 {446} (Axial)
Intensity average	-1 cps	1 cps	0 cps	2 cps

	Pb 220.353 {453} (Axial)	Sn 189.989 {478} (Axial)	Tl 190.856 {477} (Axial)	As 189.042 {478} (Axial)
Intensity average	-1 cps	1 cps	-2 cps	-3 cps

	Ba 233.527 {445} (Axial)	Mo 202.030 {467} (Axial)	S 182.034 {485} (Axial)	Si 251.611 {134} (Axial)
Intensity average	4 cps	3 cps	3 cps	35 cps

	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)	Cr 267.716 {126} (Axial)
Intensity average	1 cps	-2 cps	-3 cps	3 cps

	Mn 257.610 {131} (Axial)	Y 360.073 {94} (Radial)	Y 224.306 {450} (Axial)	In 230.606 {446} (Axial)
Intensity average	19 cps	5,138 cps	8,196 cps	2,920 cps

	Y 360.073 {94} (Axial)	Na 818.326 {41} (Radial)	Zn 206.200 {463} (Axial)	Cd 228.802 {447} (Axial)
Intensity average	135,308 cps	-149 cps	6 cps	4 cps

	Cu 324.754 {104} (Radial)
Intensity average	6 cps

Comprehensive sample report

11/28/2014 10:10:14 PM

BLANK WG756747

Sample Type UNKNOWN Analysis Date 11/28/2014 3:29:58 PM

Dilution Factor 1

	Al 308.215 {109} (Radial)	B 249.678 {135} (Radial)	Be 313.042 {108} (Radial)	Ca 317.933 {106} (Radial)
Concentration average	0.005 ppm	0.006 ppm	0.000 ppm	0.011 ppm
Concentration per Run 1	0.043 ppm	0.005 ppm	0.000 ppm	0.003 ppm
Concentration per Run 2	-0.066 ppm	0.003 ppm	0.000 ppm	0.016 ppm
Concentration per Run 3	0.038 ppm	0.010 ppm	0.000 ppm	0.016 ppm
Concentration RSD	1,294.1 %	55.9 %	58.7 %	65.3 %
Concentration SD	0.1 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Ca 373.690 {90} (Radial)	Fe 259.940 {130} (Radial)	Fe 271.441 {124} (Radial)	K 766.490 {44} (Radial)
Concentration average	0.003 ppm	0.087 ppm	0.080 ppm	0.227 ppm
Concentration per Run 1	0.020 ppm	0.086 ppm	0.143 ppm	0.216 ppm
Concentration per Run 2	-0.013 ppm	0.082 ppm	0.077 ppm	0.231 ppm
Concentration per Run 3	0.003 ppm	0.092 ppm	0.022 ppm	0.235 ppm
Concentration RSD	549.3 %	5.9 %	75.4 %	4.4 %
Concentration SD	0.0 ppm	0.0 ppm	0.1 ppm	0.0 ppm

	Li 670.784 {50} (Radial)	Mg 279.079 {121} (Radial)	Na 589.592 {57} (Radial)	Sr 421.552 {80} (Radial)
Concentration average	0.001 ppm	-0.011 ppm	0.271 ppm	0.000 ppm
Concentration per Run 1	0.000 ppm	-0.023 ppm	0.243 ppm	0.000 ppm
Concentration per Run 2	0.001 ppm	0.001 ppm	0.275 ppm	0.000 ppm
Concentration per Run 3	0.001 ppm	-0.010 ppm	0.295 ppm	0.000 ppm
Concentration RSD	68.6 %	109.5 %	9.8 %	73.5 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Ti 334.941 {101} (Radial)	V 292.402 {115} (Radial)	Co 228.616 {447} (Axial)	Ni 231.604 {446} (Axial)
Concentration average	0.000 ppm	-0.001 ppm	0.001 ppm	0.000 ppm
Concentration per Run 1	-0.001 ppm	-0.002 ppm	0.001 ppm	0.000 ppm
Concentration per Run 2	0.001 ppm	-0.003 ppm	0.001 ppm	0.000 ppm
Concentration per Run 3	0.000 ppm	0.002 ppm	0.001 ppm	0.000 ppm
Concentration RSD	14,022.3 %	317.1 %	19.4 %	214.1 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Pb 220.353 {453} (Axial)	Sn 189.989 {478} (Axial)	Tl 190.856 {477} (Axial)	As 189.042 {478} (Axial)
Concentration average	0.001 ppm	-0.002 ppm	0.004 ppm	0.002 ppm
Concentration per Run 1	0.001 ppm	-0.002 ppm	0.004 ppm	0.002 ppm
Concentration per Run 2	0.001 ppm	-0.002 ppm	0.003 ppm	0.002 ppm
Concentration per Run 3	0.002 ppm	-0.002 ppm	0.006 ppm	0.003 ppm
Concentration RSD	21.7 %	19.3 %	28.2 %	25.7 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Ba 233.527 {445} (Axial)	Mo 202.030 {467} (Axial)	S 182.034 {485} (Axial)	Si 251.611 {134} (Axial)
Concentration average	0.000 ppm	0.000 ppm	0.117 ppm	-0.006 ppm
Concentration per Run 1	0.000 ppm	0.000 ppm	0.120 ppm	-0.007 ppm
Concentration per Run 2	0.000 ppm	0.000 ppm	0.119 ppm	-0.004 ppm
Concentration per Run 3	0.000 ppm	0.000 ppm	0.113 ppm	-0.007 ppm
Concentration RSD	210.5 %	99.7 %	3.1 %	27.5 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)	Cr 267.716 {126} (Axial)
Concentration average	-0.003 ppm	0.003 ppm	-0.001 ppm	0.000 ppm
Concentration per Run 1	-0.002 ppm	0.002 ppm	-0.002 ppm	0.000 ppm
Concentration per Run 2	-0.003 ppm	0.003 ppm	0.000 ppm	0.000 ppm
Concentration per Run 3	-0.002 ppm	0.004 ppm	-0.001 ppm	-0.001 ppm
Concentration RSD	24.9 %	34.7 %	65.3 %	140.3 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Mn 257.610 {131} (Axial)	Y 360.073 {94} (Radial)	Y 224.306 {450} (Axial)	In 230.606 {446} (Axial)
Concentration average	0.000 ppm	103.168 %	101.821 %	101.050 %
Concentration per Run 1	0.000 ppm	103.192 %	101.822 %	100.993 %
Concentration per Run 2	0.000 ppm	102.747 %	101.744 %	101.158 %
Concentration per Run 3	0.000 ppm	103.567 %	101.897 %	100.998 %
Concentration RSD	4.5 %	0.4 %	0.1 %	0.1 %
Concentration SD	0.0 ppm	0.4 %	0.1 %	0.1 %

	Y 360.073 {94} (Axial)	Na 818.326 {41} (Radial)	Zn 206.200 {463} (Axial)	Cd 228.802 {447} (Axial)
Concentration average	102.745 %	0.424 ppm	0.002 ppm	0.000 ppm
Concentration per Run 1	102.504 %	0.508 ppm	0.002 ppm	0.000 ppm
Concentration per Run 2	102.501 %	0.380 ppm	0.002 ppm	0.000 ppm
Concentration per Run 3	103.231 %	0.385 ppm	0.002 ppm	0.000 ppm
Concentration RSD	0.4 %	17.1 %	9.5 %	51.4 %
Concentration SD	0.4 %	0.1 ppm	0.0 ppm	0.0 ppm

	Cu 324.754 {104} (Radial)
Concentration average	0.003 ppm
Concentration per Run 1	0.000 ppm
Concentration per Run 2	0.006 ppm
Concentration per Run 3	0.003 ppm
Concentration RSD	97.0 %
Concentration SD	0.0 ppm

	Al 308.215 {109} (Radial)	B 249.678 {135} (Radial)	Be 313.042 {108} (Radial)	Ca 317.933 {106} (Radial)
Intensity average	5 cps	1 cps	-2 cps	45 cps

	Ca 373.690 {90} (Radial)	Fe 259.940 {130} (Radial)	Fe 271.441 {124} (Radial)	K 766.490 {44} (Radial)
Intensity average	11 cps	24 cps	2 cps	144 cps

	Li 670.784 {50} (Radial)	Mg 279.079 {121} (Radial)	Na 589.592 {57} (Radial)	Sr 421.552 {80} (Radial)
Intensity average	10 cps	-1 cps	538 cps	-5 cps

	Ti 334.941 {101} (Radial)	V 292.402 {115} (Radial)	Co 228.616 {447} (Axial)	Ni 231.604 {446} (Axial)
Intensity average	2 cps	-1 cps	0 cps	1 cps

	Pb 220.353 {453} (Axial)	Sn 189.989 {478} (Axial)	Tl 190.856 {477} (Axial)	As 189.042 {478} (Axial)
Intensity average	-1 cps	0 cps	-2 cps	-3 cps

	Ba 233.527 {445} (Axial)	Mo 202.030 {467} (Axial)	S 182.034 {485} (Axial)	Si 251.611 {134} (Axial)
Intensity average	2 cps	2 cps	24 cps	21 cps

	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)	Cr 267.716 {126} (Axial)
Intensity average	0 cps	-1 cps	0 cps	1 cps

	Mn 257.610 {131} (Axial)	Y 360.073 {94} (Radial)	Y 224.306 {450} (Axial)	In 230.606 {446} (Axial)
Intensity average	22 cps	5,089 cps	8,165 cps	2,902 cps

	Y 360.073 {94} (Axial)	Na 818.326 {41} (Radial)	Zn 206.200 {463} (Axial)	Cd 228.802 {447} (Axial)
Intensity average	135,860 cps	-127 cps	4 cps	4 cps

	Cu 324.754 {104} (Radial)
Intensity average	8 cps

Comprehensive sample report

11/28/2014 10:10:14 PM

LCS WG756747

Sample Type UNKNOWN Analysis Date 11/28/2014 3:34:09 PM

Dilution Factor 1

	Al 308.215 {109} (Radial)	B 249.678 {135} (Radial)	Be 313.042 {108} (Radial)	Ca 317.933 {106} (Radial)
Concentration average	1.004 ppm	1.020 ppm	1.006 ppm	9.742 ppm
Concentration per Run 1	0.997 ppm	1.015 ppm	1.009 ppm	9.801 ppm
Concentration per Run 2	1.013 ppm	1.028 ppm	1.007 ppm	9.695 ppm
Concentration per Run 3	1.001 ppm	1.018 ppm	1.002 ppm	9.729 ppm
Concentration RSD	0.9 %	0.7 %	0.4 %	0.6 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.1 ppm

	Ca 373.690 {90} (Radial)	Fe 259.940 {130} (Radial)	Fe 271.441 {124} (Radial)	K 766.490 {44} (Radial)
Concentration average	10.234 ppm	1.003 ppm	1.198 ppm	9.681 ppm
Concentration per Run 1	10.286 ppm	1.009 ppm	1.070 ppm	9.705 ppm
Concentration per Run 2	10.186 ppm	1.003 ppm	1.274 ppm	9.682 ppm
Concentration per Run 3	10.230 ppm	0.997 ppm	1.251 ppm	9.655 ppm
Concentration RSD	0.5 %	0.6 %	9.3 %	0.3 %
Concentration SD	0.0 ppm	0.0 ppm	0.1 ppm	0.0 ppm

	Li 670.784 {50} (Radial)	Mg 279.079 {121} (Radial)	Na 589.592 {57} (Radial)	Sr 421.552 {80} (Radial)
Concentration average	1.004 ppm	9.471 ppm	9.814 ppm	0.984 ppm
Concentration per Run 1	1.002 ppm	9.635 ppm	9.852 ppm	0.985 ppm
Concentration per Run 2	1.003 ppm	9.333 ppm	9.777 ppm	0.983 ppm
Concentration per Run 3	1.006 ppm	9.447 ppm	9.814 ppm	0.983 ppm
Concentration RSD	0.2 %	1.6 %	0.4 %	0.1 %
Concentration SD	0.0 ppm	0.2 ppm	0.0 ppm	0.0 ppm

	Ti 334.941 {101} (Radial)	V 292.402 {115} (Radial)	Co 228.616 {447} (Axial)	Ni 231.604 {446} (Axial)
Concentration average	0.964 ppm	1.022 ppm	1.013 ppm	0.997 ppm
Concentration per Run 1	0.965 ppm	1.026 ppm	1.015 ppm	0.997 ppm
Concentration per Run 2	0.964 ppm	1.018 ppm	1.011 ppm	0.994 ppm
Concentration per Run 3	0.962 ppm	1.023 ppm	1.015 ppm	1.000 ppm
Concentration RSD	0.2 %	0.4 %	0.2 %	0.3 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Pb 220.353 {453} (Axial)	Sn 189.989 {478} (Axial)	Tl 190.856 {477} (Axial)	As 189.042 {478} (Axial)
Concentration average	1.020 ppm	0.986 ppm	1.046 ppm	1.013 ppm
Concentration per Run 1	1.024 ppm	0.986 ppm	1.050 ppm	1.016 ppm
Concentration per Run 2	1.019 ppm	0.981 ppm	1.042 ppm	1.008 ppm
Concentration per Run 3	1.017 ppm	0.989 ppm	1.046 ppm	1.014 ppm
Concentration RSD	0.3 %	0.4 %	0.4 %	0.4 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Ba 233.527 {445} (Axial)	Mo 202.030 {467} (Axial)	S 182.034 {485} (Axial)	Si 251.611 {134} (Axial)
Concentration average	1.038 ppm	0.990 ppm	0.072 ppm	1.027 ppm
Concentration per Run 1	1.040 ppm	0.993 ppm	0.074 ppm	1.028 ppm
Concentration per Run 2	1.034 ppm	0.987 ppm	0.070 ppm	1.034 ppm
Concentration per Run 3	1.038 ppm	0.989 ppm	0.070 ppm	1.019 ppm
Concentration RSD	0.3 %	0.3 %	3.3 %	0.8 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)	Cr 267.716 {126} (Axial)
Concentration average	1.017 ppm	1.034 ppm	0.990 ppm	0.960 ppm
Concentration per Run 1	1.017 ppm	1.041 ppm	0.985 ppm	0.958 ppm
Concentration per Run 2	1.014 ppm	1.031 ppm	0.999 ppm	0.969 ppm
Concentration per Run 3	1.020 ppm	1.030 ppm	0.987 ppm	0.954 ppm
Concentration RSD	0.3 %	0.6 %	0.8 %	0.8 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Mn 257.610 {131} (Axial)	Y 360.073 {94} (Radial)	Y 224.306 {450} (Axial)	In 230.606 {446} (Axial)
Concentration average	0.994 ppm	102.600 %	98.603 %	94.531 %
Concentration per Run 1	0.994 ppm	102.273 %	98.842 %	94.821 %
Concentration per Run 2	1.001 ppm	102.923 %	98.831 %	94.773 %
Concentration per Run 3	0.988 ppm	102.605 %	98.138 %	94.001 %
Concentration RSD	0.7 %	0.3 %	0.4 %	0.5 %
Concentration SD	0.0 ppm	0.3 %	0.4 %	0.5 %

	Y 360.073 {94} (Axial)	Na 818.326 {41} (Radial)	Zn 206.200 {463} (Axial)	Cd 228.802 {447} (Axial)
Concentration average	99.537 %	10.485 ppm	0.982 ppm	1.024 ppm
Concentration per Run 1	99.707 %	10.512 ppm	0.986 ppm	1.026 ppm
Concentration per Run 2	98.825 %	10.411 ppm	0.981 ppm	1.022 ppm
Concentration per Run 3	100.077 %	10.531 ppm	0.979 ppm	1.024 ppm
Concentration RSD	0.6 %	0.6 %	0.4 %	0.2 %
Concentration SD	0.6 %	0.1 ppm	0.0 ppm	0.0 ppm

	Cu 324.754 {104} (Radial)
Concentration average	0.993 ppm
Concentration per Run 1	0.986 ppm
Concentration per Run 2	0.996 ppm
Concentration per Run 3	0.996 ppm
Concentration RSD	0.5 %
Concentration SD	0.0 ppm

	Al 308.215 {109} (Radial)	B 249.678 {135} (Radial)	Be 313.042 {108} (Radial)	Ca 317.933 {106} (Radial)
Intensity average	48 cps	194 cps	14,139 cps	3,964 cps

	Ca 373.690 {90} (Radial)	Fe 259.940 {130} (Radial)	Fe 271.441 {124} (Radial)	K 766.490 {44} (Radial)
Intensity average	1,626 cps	263 cps	19 cps	5,218 cps

	Li 670.784 {50} (Radial)	Mg 279.079 {121} (Radial)	Na 589.592 {57} (Radial)	Sr 421.552 {80} (Radial)
Intensity average	13,524 cps	356 cps	17,537 cps	29,280 cps

	Ti 334.941 {101} (Radial)	V 292.402 {115} (Radial)	Co 228.616 {447} (Axial)	Ni 231.604 {446} (Axial)
Intensity average	1,866 cps	424 cps	2,368 cps	1,640 cps

	Pb 220.353 {453} (Axial)	Sn 189.989 {478} (Axial)	Tl 190.856 {477} (Axial)	As 189.042 {478} (Axial)
Intensity average	583 cps	637 cps	457 cps	286 cps

	Ba 233.527 {445} (Axial)	Mo 202.030 {467} (Axial)	S 182.034 {485} (Axial)	Si 251.611 {134} (Axial)
Intensity average	5,031 cps	2,651 cps	15 cps	1,929 cps

	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)	Cr 267.716 {126} (Axial)
Intensity average	487 cps	264 cps	6,366 cps	4,291 cps

	Mn 257.610 {131} (Axial)	Y 360.073 {94} (Radial)	Y 224.306 {450} (Axial)	In 230.606 {446} (Axial)
Intensity average	34,827 cps	5,061 cps	7,907 cps	2,715 cps

	Y 360.073 {94} (Axial)	Na 818.326 {41} (Radial)	Zn 206.200 {463} (Axial)	Cd 228.802 {447} (Axial)
Intensity average	131,617 cps	725 cps	2,384 cps	3,965 cps

	Cu 324.754 {104} (Radial)
Intensity average	630 cps

Comprehensive sample report

11/28/2014 10:10:14 PM

LCSD WG756747

Sample Type UNKNOWN Analysis Date 11/28/2014 3:38:23 PM

Dilution Factor 1

	Al 308.215 {109} (Radial)	B 249.678 {135} (Radial)	Be 313.042 {108} (Radial)	Ca 317.933 {106} (Radial)
Concentration average	1.016 ppm	1.017 ppm	1.018 ppm	9.884 ppm
Concentration per Run 1	0.971 ppm	1.008 ppm	1.016 ppm	9.840 ppm
Concentration per Run 2	1.066 ppm	1.030 ppm	1.024 ppm	9.965 ppm
Concentration per Run 3	1.010 ppm	1.015 ppm	1.014 ppm	9.849 ppm
Concentration RSD	4.7 %	1.1 %	0.5 %	0.7 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.1 ppm

	Ca 373.690 {90} (Radial)	Fe 259.940 {130} (Radial)	Fe 271.441 {124} (Radial)	K 766.490 {44} (Radial)
Concentration average	10.381 ppm	1.014 ppm	1.187 ppm	9.764 ppm
Concentration per Run 1	10.349 ppm	1.007 ppm	1.063 ppm	9.719 ppm
Concentration per Run 2	10.480 ppm	1.023 ppm	1.228 ppm	9.810 ppm
Concentration per Run 3	10.314 ppm	1.014 ppm	1.272 ppm	9.763 ppm
Concentration RSD	0.8 %	0.8 %	9.3 %	0.5 %
Concentration SD	0.1 ppm	0.0 ppm	0.1 ppm	0.0 ppm

	Li 670.784 {50} (Radial)	Mg 279.079 {121} (Radial)	Na 589.592 {57} (Radial)	Sr 421.552 {80} (Radial)
Concentration average	1.012 ppm	9.592 ppm	9.941 ppm	0.990 ppm
Concentration per Run 1	1.010 ppm	9.520 ppm	9.953 ppm	0.992 ppm
Concentration per Run 2	1.015 ppm	9.729 ppm	9.973 ppm	0.992 ppm
Concentration per Run 3	1.010 ppm	9.528 ppm	9.898 ppm	0.987 ppm
Concentration RSD	0.3 %	1.2 %	0.4 %	0.3 %
Concentration SD	0.0 ppm	0.1 ppm	0.0 ppm	0.0 ppm

	Ti 334.941 {101} (Radial)	V 292.402 {115} (Radial)	Co 228.616 {447} (Axial)	Ni 231.604 {446} (Axial)
Concentration average	0.979 ppm	1.037 ppm	1.026 ppm	1.006 ppm
Concentration per Run 1	0.977 ppm	1.029 ppm	1.030 ppm	1.010 ppm
Concentration per Run 2	0.984 ppm	1.046 ppm	1.023 ppm	1.003 ppm
Concentration per Run 3	0.975 ppm	1.037 ppm	1.026 ppm	1.007 ppm
Concentration RSD	0.5 %	0.8 %	0.3 %	0.3 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Pb 220.353 {453} (Axial)	Sn 189.989 {478} (Axial)	Tl 190.856 {477} (Axial)	As 189.042 {478} (Axial)
Concentration average	1.033 ppm	0.999 ppm	1.058 ppm	1.020 ppm
Concentration per Run 1	1.039 ppm	1.004 ppm	1.062 ppm	1.020 ppm
Concentration per Run 2	1.025 ppm	0.998 ppm	1.055 ppm	1.022 ppm
Concentration per Run 3	1.034 ppm	0.995 ppm	1.058 ppm	1.019 ppm
Concentration RSD	0.7 %	0.5 %	0.4 %	0.1 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Ba 233.527 {445} (Axial)	Mo 202.030 {467} (Axial)	S 182.034 {485} (Axial)	Si 251.611 {134} (Axial)
Concentration average	1.049 ppm	0.998 ppm	0.058 ppm	1.043 ppm
Concentration per Run 1	1.051 ppm	1.000 ppm	0.057 ppm	1.049 ppm
Concentration per Run 2	1.047 ppm	0.997 ppm	0.062 ppm	1.044 ppm
Concentration per Run 3	1.049 ppm	0.998 ppm	0.055 ppm	1.037 ppm
Concentration RSD	0.2 %	0.1 %	6.0 %	0.6 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)	Cr 267.716 {126} (Axial)
Concentration average	1.027 ppm	1.036 ppm	1.009 ppm	0.979 ppm
Concentration per Run 1	1.030 ppm	1.037 ppm	1.009 ppm	0.981 ppm
Concentration per Run 2	1.027 ppm	1.031 ppm	1.011 ppm	0.981 ppm
Concentration per Run 3	1.025 ppm	1.039 ppm	1.008 ppm	0.975 ppm
Concentration RSD	0.2 %	0.4 %	0.1 %	0.4 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Mn 257.610 {131} (Axial)	Y 360.073 {94} (Radial)	Y 224.306 {450} (Axial)	In 230.606 {446} (Axial)
Concentration average	1.010 ppm	102.398 %	98.594 %	94.423 %
Concentration per Run 1	1.008 ppm	102.922 %	98.780 %	94.320 %
Concentration per Run 2	1.013 ppm	101.438 %	98.592 %	94.542 %
Concentration per Run 3	1.008 ppm	102.834 %	98.409 %	94.407 %
Concentration RSD	0.3 %	0.8 %	0.2 %	0.1 %
Concentration SD	0.0 ppm	0.8 %	0.2 %	0.1 %

	Y 360.073 {94} (Axial)	Na 818.326 {41} (Radial)	Zn 206.200 {463} (Axial)	Cd 228.802 {447} (Axial)
Concentration average	99.631 %	10.508 ppm	0.994 ppm	1.037 ppm
Concentration per Run 1	99.979 %	10.619 ppm	1.000 ppm	1.039 ppm
Concentration per Run 2	99.351 %	10.544 ppm	0.989 ppm	1.033 ppm
Concentration per Run 3	99.563 %	10.360 ppm	0.994 ppm	1.038 ppm
Concentration RSD	0.3 %	1.3 %	0.6 %	0.3 %
Concentration SD	0.3 %	0.1 ppm	0.0 ppm	0.0 ppm

	Cu 324.754 {104} (Radial)
Concentration average	1.001 ppm
Concentration per Run 1	1.002 ppm
Concentration per Run 2	1.006 ppm
Concentration per Run 3	0.994 ppm
Concentration RSD	0.7 %
Concentration SD	0.0 ppm

	Al 308.215 {109} (Radial)	B 249.678 {135} (Radial)	Be 313.042 {108} (Radial)	Ca 317.933 {106} (Radial)
Intensity average	49 cps	193 cps	14,277 cps	4,013 cps

	Ca 373.690 {90} (Radial)	Fe 259.940 {130} (Radial)	Fe 271.441 {124} (Radial)	K 766.490 {44} (Radial)
Intensity average	1,646 cps	265 cps	19 cps	5,252 cps

	Li 670.784 {50} (Radial)	Mg 279.079 {121} (Radial)	Na 589.592 {57} (Radial)	Sr 421.552 {80} (Radial)
Intensity average	13,603 cps	360 cps	17,728 cps	29,417 cps

	Ti 334.941 {101} (Radial)	V 292.402 {115} (Radial)	Co 228.616 {447} (Axial)	Ni 231.604 {446} (Axial)
Intensity average	1,892 cps	430 cps	2,395 cps	1,653 cps

	Pb 220.353 {453} (Axial)	Sn 189.989 {478} (Axial)	Tl 190.856 {477} (Axial)	As 189.042 {478} (Axial)
Intensity average	590 cps	645 cps	462 cps	288 cps

	Ba 233.527 {445} (Axial)	Mo 202.030 {467} (Axial)	S 182.034 {485} (Axial)	Si 251.611 {134} (Axial)
Intensity average	5,085 cps	2,673 cps	13 cps	1,960 cps

	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)	Cr 267.716 {126} (Axial)
Intensity average	492 cps	264 cps	6,494 cps	4,379 cps

	Mn 257.610 {131} (Axial)	Y 360.073 {94} (Radial)	Y 224.306 {450} (Axial)	In 230.606 {446} (Axial)
Intensity average	35,406 cps	5,051 cps	7,907 cps	2,712 cps

	Y 360.073 {94} (Axial)	Na 818.326 {41} (Radial)	Zn 206.200 {463} (Axial)	Cd 228.802 {447} (Axial)
Intensity average	131,742 cps	725 cps	2,412 cps	4,012 cps

	Cu 324.754 {104} (Radial)
Intensity average	634 cps

Comprehensive sample report

11/28/2014 10:10:14 PM

L734231-16 WG756747

Sample Type UNKNOWN Analysis Date 11/28/2014 3:43:05 PM

Dilution Factor 5

	Al 308.215 {109} (Radial)	B 249.678 {135} (Radial)	Be 313.042 {108} (Radial)
Concentration average	9.707 ppm	1.756 ppm	0.002 ppm
Concentration per Run 1	9.665 ppm	1.784 ppm	0.001 ppm
Concentration per Run 2	9.698 ppm	1.756 ppm	0.002 ppm
Concentration per Run 3	9.758 ppm	1.727 ppm	0.002 ppm
Concentration RSD	0.5 %	1.6 %	49.9 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm

	Ca 317.933 {106} (Radial)	Ca 373.690 {90} (Radial)	Fe 259.940 {130} (Radial)
Concentration average	1,980.298 ppm	2,158.851 ppm	12.844 ppm
Concentration per Run 1	1,991.739 ppm	2,169.841 ppm	12.984 ppm
Concentration per Run 2	1,980.908 ppm	2,156.859 ppm	12.811 ppm
Concentration per Run 3	1,968.247 ppm	2,149.854 ppm	12.737 ppm
Concentration RSD	0.6 %	0.5 %	1.0 %
Concentration SD	11.8 ppm	10.1 ppm	0.1 ppm

	Fe 271.441 {124} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	14.318 ppm	101.627 ppm	0.560 ppm
Concentration per Run 1	14.726 ppm	102.081 ppm	0.562 ppm
Concentration per Run 2	14.410 ppm	101.203 ppm	0.552 ppm
Concentration per Run 3	13.817 ppm	101.598 ppm	0.567 ppm
Concentration RSD	3.2 %	0.4 %	1.3 %
Concentration SD	0.5 ppm	0.4 ppm	0.0 ppm

	Mg 279.079 {121} (Radial)	Na 589.592 {57} (Radial)	Sr 421.552 {80} (Radial)
Concentration average	841.044 ppm	1,608.553 ppm	39.681 ppm
Concentration per Run 1	843.605 ppm	1,621.448 ppm	39.248 ppm
Concentration per Run 2	842.371 ppm	1,618.573 ppm	40.266 ppm
Concentration per Run 3	837.156 ppm	1,585.637 ppm	39.528 ppm
Concentration RSD	0.4 %	1.2 %	1.3 %
Concentration SD	3.4 ppm	19.9 ppm	0.5 ppm

	Ti 334.941 {101} (Radial)	V 292.402 {115} (Radial)	Co 228.616 {447} (Axial)
Concentration average	0.319 ppm	0.069 ppm	0.023 ppm
Concentration per Run 1	0.321 ppm	0.092 ppm	0.025 ppm
Concentration per Run 2	0.311 ppm	0.032 ppm	0.021 ppm
Concentration per Run 3	0.325 ppm	0.084 ppm	0.023 ppm
Concentration RSD	2.3 %	47.3 %	8.7 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm

	Ni 231.604 {446} (Axial)	Pb 220.353 {453} (Axial)	Sn 189.989 {478} (Axial)
Concentration average	0.009 ppm	0.024 ppm	-0.010 ppm
Concentration per Run 1	0.006 ppm	0.020 ppm	-0.010 ppm

	Ni 231.604 {446} (Axial)	Pb 220.353 {453} (Axial)	Sn 189.989 {478} (Axial)
Concentration per Run 2	0.012 ppm	0.021 ppm	-0.010 ppm
Concentration per Run 3	0.009 ppm	0.029 ppm	-0.008 ppm
Concentration RSD	30.7 %	18.8 %	11.4 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm

	Tl 190.856 {477} (Axial)	As 189.042 {478} (Axial)	Ba 233.527 {445} (Axial)
Concentration average	-0.003 ppm	-0.018 ppm	0.660 ppm
Concentration per Run 1	-0.006 ppm	-0.015 ppm	0.660 ppm
Concentration per Run 2	0.006 ppm	-0.018 ppm	0.662 ppm
Concentration per Run 3	-0.007 ppm	-0.021 ppm	0.657 ppm
Concentration RSD	289.1 %	16.3 %	0.4 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm

	Mo 202.030 {467} (Axial)	S 182.034 {485} (Axial)	Si 251.611 {134} (Axial)
Concentration average	0.272 ppm	2,173.131 ppm	56.137 ppm
Concentration per Run 1	0.271 ppm	2,171.599 ppm	56.455 ppm
Concentration per Run 2	0.274 ppm	2,177.358 ppm	55.789 ppm
Concentration per Run 3	0.270 ppm	2,170.435 ppm	56.165 ppm
Concentration RSD	0.7 %	0.2 %	0.6 %
Concentration SD	0.0 ppm	3.7 ppm	0.3 ppm

	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)
Concentration average	-0.013 ppm	0.008 ppm	-0.009 ppm
Concentration per Run 1	-0.020 ppm	-0.013 ppm	-0.006 ppm
Concentration per Run 2	-0.004 ppm	0.031 ppm	-0.013 ppm
Concentration per Run 3	-0.016 ppm	0.007 ppm	-0.007 ppm
Concentration RSD	64.5 %	264.1 %	40.2 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm

	Cr 267.716 {126} (Axial)	Mn 257.610 {131} (Axial)	Y 360.073 {94} (Radial)
Concentration average	0.020 ppm	0.904 ppm	93.387 %
Concentration per Run 1	0.019 ppm	0.909 ppm	92.860 %
Concentration per Run 2	0.022 ppm	0.898 ppm	93.195 %
Concentration per Run 3	0.018 ppm	0.905 ppm	94.105 %
Concentration RSD	10.9 %	0.6 %	0.7 %
Concentration SD	0.0 ppm	0.0 ppm	0.6 %

	Y 224.306 {450} (Axial)	In 230.606 {446} (Axial)	Y 360.073 {94} (Axial)
Concentration average	84.343 %	74.824 %	86.000 %
Concentration per Run 1	84.310 %	74.873 %	85.306 %
Concentration per Run 2	83.938 %	74.562 %	86.802 %
Concentration per Run 3	84.782 %	75.036 %	85.891 %
Concentration RSD	0.5 %	0.3 %	0.9 %
Concentration SD	0.4 %	0.2 %	0.8 %

	Na 818.326 {41} (Radial)	Zn 206.200 {463} (Axial)	Cd 228.802 {447} (Axial)
Concentration average	1,698.607 ppm	0.054 ppm	0.002 ppm

	Na 818.326 {41} (Radial)	Zn 206.200 {463} (Axial)	Cd 228.802 {447} (Axial)
Concentration per Run 1	1,708.200 ppm	0.053 ppm	0.002 ppm
Concentration per Run 2	1,695.076 ppm	0.054 ppm	0.002 ppm
Concentration per Run 3	1,692.546 ppm	0.054 ppm	0.003 ppm
Concentration RSD	0.5 %	1.5 %	29.7 %
Concentration SD	8.4 ppm	0.0 ppm	0.0 ppm

	Cu 324.754 {104} (Radial)
Concentration average	0.009 ppm
Concentration per Run 1	0.023 ppm
Concentration per Run 2	0.013 ppm
Concentration per Run 3	-0.009 ppm
Concentration RSD	186.5 %
Concentration SD	0.0 ppm

	Al 308.215 {109} (Radial)	B 249.678 {135} (Radial)	Be 313.042 {108} (Radial)	Ca 317.933 {106} (Radial)
Intensity average	81 cps	61 cps	4 cps	145,217 cps

	Ca 373.690 {90} (Radial)	Fe 259.940 {130} (Radial)	Fe 271.441 {124} (Radial)	K 766.490 {44} (Radial)
Intensity average	62,039 cps	610 cps	40 cps	9,950 cps

	Li 670.784 {50} (Radial)	Mg 279.079 {121} (Radial)	Na 589.592 {57} (Radial)	Sr 421.552 {80} (Radial)
Intensity average	1,375 cps	5,755 cps	521,676 cps	214,998 cps

	Ti 334.941 {101} (Radial)	V 292.402 {115} (Radial)	Co 228.616 {447} (Axial)	Ni 231.604 {446} (Axial)
Intensity average	114 cps	5 cps	7 cps	3 cps

	Pb 220.353 {453} (Axial)	Sn 189.989 {478} (Axial)	Tl 190.856 {477} (Axial)	As 189.042 {478} (Axial)
Intensity average	1 cps	0 cps	-3 cps	-4 cps

	Ba 233.527 {445} (Axial)	Mo 202.030 {467} (Axial)	S 182.034 {485} (Axial)	Si 251.611 {134} (Axial)
Intensity average	549 cps	126 cps	64,693 cps	17,941 cps

	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)	Cr 267.716 {126} (Axial)
Intensity average	0 cps	-1 cps	-4 cps	17 cps

	Mn 257.610 {131} (Axial)	Y 360.073 {94} (Radial)	Y 224.306 {450} (Axial)	In 230.606 {446} (Axial)
Intensity average	5,475 cps	4,606 cps	6,764 cps	2,149 cps

	Y 360.073 {94} (Axial)	Na 818.326 {41} (Radial)	Zn 206.200 {463} (Axial)	Cd 228.802 {447} (Axial)
Intensity average	113,717 cps	26,004 cps	22 cps	5 cps

	Cu 324.754 {104} (Radial)
Intensity average	7 cps

Comprehensive sample report

11/28/2014 10:10:14 PM

SD L734231-16 WG756747

Sample Type UNKNOWN Analysis Date 11/28/2014 3:47:32 PM

Dilution Factor 25

	Al 308.215 {109} (Radial)	B 249.678 {135} (Radial)	Be 313.042 {108} (Radial)
Concentration average	9.624 ppm	1.668 ppm	0.001 ppm
Concentration per Run 1	9.261 ppm	1.459 ppm	0.000 ppm
Concentration per Run 2	10.111 ppm	1.618 ppm	0.003 ppm
Concentration per Run 3	9.500 ppm	1.926 ppm	-0.001 ppm
Concentration RSD	4.6 %	14.2 %	376.8 %
Concentration SD	0.4 ppm	0.2 ppm	0.0 ppm

	Ca 317.933 {106} (Radial)	Ca 373.690 {90} (Radial)	Fe 259.940 {130} (Radial)
Concentration average	1,922.298 ppm	2,035.733 ppm	12.499 ppm
Concentration per Run 1	1,928.752 ppm	2,042.993 ppm	12.314 ppm
Concentration per Run 2	1,929.618 ppm	2,048.957 ppm	12.572 ppm
Concentration per Run 3	1,908.523 ppm	2,015.250 ppm	12.610 ppm
Concentration RSD	0.6 %	0.9 %	1.3 %
Concentration SD	11.9 ppm	18.0 ppm	0.2 ppm

	Fe 271.441 {124} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	13.628 ppm	92.789 ppm	0.515 ppm
Concentration per Run 1	12.751 ppm	91.813 ppm	0.508 ppm
Concentration per Run 2	16.139 ppm	93.897 ppm	0.525 ppm
Concentration per Run 3	11.994 ppm	92.657 ppm	0.511 ppm
Concentration RSD	16.2 %	1.1 %	1.7 %
Concentration SD	2.2 ppm	1.0 ppm	0.0 ppm

	Mg 279.079 {121} (Radial)	Na 589.592 {57} (Radial)	Sr 421.552 {80} (Radial)
Concentration average	762.394 ppm	1,559.294 ppm	37.315 ppm
Concentration per Run 1	768.823 ppm	1,550.002 ppm	37.046 ppm
Concentration per Run 2	766.349 ppm	1,574.042 ppm	37.696 ppm
Concentration per Run 3	752.010 ppm	1,553.836 ppm	37.204 ppm
Concentration RSD	1.2 %	0.8 %	0.9 %
Concentration SD	9.1 ppm	12.9 ppm	0.3 ppm

	Ti 334.941 {101} (Radial)	V 292.402 {115} (Radial)	Co 228.616 {447} (Axial)
Concentration average	0.439 ppm	0.174 ppm	0.032 ppm
Concentration per Run 1	0.461 ppm	0.173 ppm	0.030 ppm
Concentration per Run 2	0.423 ppm	0.160 ppm	0.029 ppm
Concentration per Run 3	0.433 ppm	0.190 ppm	0.038 ppm
Concentration RSD	4.5 %	8.6 %	15.8 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm

	Ni 231.604 {446} (Axial)	Pb 220.353 {453} (Axial)	Sn 189.989 {478} (Axial)
Concentration average	0.006 ppm	-0.015 ppm	-0.046 ppm
Concentration per Run 1	-0.007 ppm	-0.028 ppm	-0.041 ppm

	Ni 231.604 {446} (Axial)	Pb 220.353 {453} (Axial)	Sn 189.989 {478} (Axial)
Concentration per Run 2	0.010 ppm	0.031 ppm	-0.059 ppm
Concentration per Run 3	0.017 ppm	-0.050 ppm	-0.038 ppm
Concentration RSD	193.7 %	271.5 %	25.0 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm

	Tl 190.856 {477} (Axial)	As 189.042 {478} (Axial)	Ba 233.527 {445} (Axial)
Concentration average	0.036 ppm	-0.015 ppm	0.629 ppm
Concentration per Run 1	0.034 ppm	0.022 ppm	0.636 ppm
Concentration per Run 2	0.012 ppm	-0.060 ppm	0.619 ppm
Concentration per Run 3	0.062 ppm	-0.008 ppm	0.631 ppm
Concentration RSD	70.0 %	267.7 %	1.4 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm

	Mo 202.030 {467} (Axial)	S 182.034 {485} (Axial)	Si 251.611 {134} (Axial)
Concentration average	0.258 ppm	2,006.613 ppm	51.323 ppm
Concentration per Run 1	0.261 ppm	2,008.815 ppm	50.843 ppm
Concentration per Run 2	0.260 ppm	1,997.974 ppm	51.190 ppm
Concentration per Run 3	0.253 ppm	2,013.051 ppm	51.938 ppm
Concentration RSD	1.6 %	0.4 %	1.1 %
Concentration SD	0.0 ppm	7.8 ppm	0.6 ppm

	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)
Concentration average	-0.073 ppm	0.050 ppm	-0.042 ppm
Concentration per Run 1	-0.103 ppm	0.033 ppm	-0.043 ppm
Concentration per Run 2	-0.047 ppm	0.153 ppm	-0.049 ppm
Concentration per Run 3	-0.069 ppm	-0.036 ppm	-0.034 ppm
Concentration RSD	39.2 %	191.9 %	17.0 %
Concentration SD	0.0 ppm	0.1 ppm	0.0 ppm

	Cr 267.716 {126} (Axial)	Mn 257.610 {131} (Axial)	Y 360.073 {94} (Radial)
Concentration average	0.016 ppm	0.872 ppm	98.029 %
Concentration per Run 1	0.015 ppm	0.862 ppm	97.511 %
Concentration per Run 2	0.013 ppm	0.879 ppm	97.678 %
Concentration per Run 3	0.021 ppm	0.877 ppm	98.897 %
Concentration RSD	27.0 %	1.0 %	0.8 %
Concentration SD	0.0 ppm	0.0 ppm	0.8 %

	Y 224.306 {450} (Axial)	In 230.606 {446} (Axial)	Y 360.073 {94} (Axial)
Concentration average	94.006 %	88.365 %	94.462 %
Concentration per Run 1	93.915 %	88.262 %	94.970 %
Concentration per Run 2	94.141 %	88.550 %	94.946 %
Concentration per Run 3	93.964 %	88.281 %	93.470 %
Concentration RSD	0.1 %	0.2 %	0.9 %
Concentration SD	0.1 %	0.2 %	0.9 %

	Na 818.326 {41} (Radial)	Zn 206.200 {463} (Axial)	Cd 228.802 {447} (Axial)
Concentration average	1,578.162 ppm	0.069 ppm	0.003 ppm

	Na 818.326 {41} (Radial)	Zn 206.200 {463} (Axial)	Cd 228.802 {447} (Axial)
Concentration per Run 1	1,568.237 ppm	0.070 ppm	0.003 ppm
Concentration per Run 2	1,592.828 ppm	0.066 ppm	0.003 ppm
Concentration per Run 3	1,573.422 ppm	0.072 ppm	0.003 ppm
Concentration RSD	0.8 %	4.6 %	15.5 %
Concentration SD	13.0 ppm	0.0 ppm	0.0 ppm

	Cu 324.754 {104} (Radial)
Concentration average	0.039 ppm
Concentration per Run 1	0.070 ppm
Concentration per Run 2	0.037 ppm
Concentration per Run 3	0.010 ppm
Concentration RSD	77.0 %
Concentration SD	0.0 ppm

	Al 308.215 {109} (Radial)	B 249.678 {135} (Radial)	Be 313.042 {108} (Radial)	Ca 317.933 {106} (Radial)
Intensity average	21 cps	12 cps	0 cps	29,625 cps

	Ca 373.690 {90} (Radial)	Fe 259.940 {130} (Radial)	Fe 271.441 {124} (Radial)	K 766.490 {44} (Radial)
Intensity average	12,290 cps	126 cps	8 cps	1,924 cps

	Li 670.784 {50} (Radial)	Mg 279.079 {121} (Radial)	Na 589.592 {57} (Radial)	Sr 421.552 {80} (Radial)
Intensity average	265 cps	1,095 cps	106,213 cps	42,445 cps

	Ti 334.941 {101} (Radial)	V 292.402 {115} (Radial)	Co 228.616 {447} (Axial)	Ni 231.604 {446} (Axial)
Intensity average	34 cps	2 cps	1 cps	1 cps

	Pb 220.353 {453} (Axial)	Sn 189.989 {478} (Axial)	Tl 190.856 {477} (Axial)	As 189.042 {478} (Axial)
Intensity average	-1 cps	0 cps	-3 cps	-3 cps

	Ba 233.527 {445} (Axial)	Mo 202.030 {467} (Axial)	S 182.034 {485} (Axial)	Si 251.611 {134} (Axial)
Intensity average	118 cps	29 cps	13,318 cps	3,628 cps

	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)	Cr 267.716 {126} (Axial)
Intensity average	0 cps	-1 cps	-4 cps	5 cps

	Mn 257.610 {131} (Axial)	Y 360.073 {94} (Radial)	Y 224.306 {450} (Axial)	In 230.606 {446} (Axial)
Intensity average	1,164 cps	4,835 cps	7,539 cps	2,538 cps

	Y 360.073 {94} (Axial)	Na 818.326 {41} (Radial)	Zn 206.200 {463} (Axial)	Cd 228.802 {447} (Axial)
Intensity average	124,906 cps	4,946 cps	6 cps	5 cps

	Cu 324.754 {104} (Radial)
Intensity average	7 cps

Comprehensive sample report

11/28/2014 10:10:14 PM

PS L734231-16 WG756747

Sample Type UNKNOWN Analysis Date 11/28/2014 3:52:00 PM

Dilution Factor 5

	Al 308.215 {109} (Radial)	B 249.678 {135} (Radial)	Be 313.042 {108} (Radial)
Concentration average	16.856 ppm	7.461 ppm	5.441 ppm
Concentration per Run 1	16.978 ppm	7.420 ppm	5.469 ppm
Concentration per Run 2	17.207 ppm	7.461 ppm	5.432 ppm
Concentration per Run 3	16.384 ppm	7.503 ppm	5.422 ppm
Concentration RSD	2.5 %	0.6 %	0.5 %
Concentration SD	0.4 ppm	0.0 ppm	0.0 ppm

	Ca 317.933 {106} (Radial)	Ca 373.690 {90} (Radial)	Fe 259.940 {130} (Radial)
Concentration average	2,161.405 ppm	2,370.946 ppm	20.043 ppm
Concentration per Run 1	2,173.163 ppm	2,380.557 ppm	20.167 ppm
Concentration per Run 2	2,154.586 ppm	2,369.790 ppm	19.999 ppm
Concentration per Run 3	2,156.466 ppm	2,362.492 ppm	19.964 ppm
Concentration RSD	0.5 %	0.4 %	0.5 %
Concentration SD	10.2 ppm	9.1 ppm	0.1 ppm

	Fe 271.441 {124} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	22.842 ppm	164.305 ppm	6.341 ppm
Concentration per Run 1	23.041 ppm	164.960 ppm	6.350 ppm
Concentration per Run 2	22.734 ppm	164.371 ppm	6.348 ppm
Concentration per Run 3	22.750 ppm	163.583 ppm	6.323 ppm
Concentration RSD	0.8 %	0.4 %	0.2 %
Concentration SD	0.2 ppm	0.7 ppm	0.0 ppm

	Mg 279.079 {121} (Radial)	Na 589.592 {57} (Radial)	Sr 421.552 {80} (Radial)
Concentration average	958.795 ppm	1,751.929 ppm	46.987 ppm
Concentration per Run 1	963.921 ppm	1,739.364 ppm	47.437 ppm
Concentration per Run 2	955.948 ppm	1,752.839 ppm	46.297 ppm
Concentration per Run 3	956.517 ppm	1,763.583 ppm	47.227 ppm
Concentration RSD	0.5 %	0.7 %	1.3 %
Concentration SD	4.4 ppm	12.1 ppm	0.6 ppm

	Ti 334.941 {101} (Radial)	V 292.402 {115} (Radial)	Co 228.616 {447} (Axial)
Concentration average	5.783 ppm	5.752 ppm	5.794 ppm
Concentration per Run 1	5.797 ppm	5.793 ppm	5.816 ppm
Concentration per Run 2	5.792 ppm	5.699 ppm	5.707 ppm
Concentration per Run 3	5.760 ppm	5.764 ppm	5.859 ppm
Concentration RSD	0.3 %	0.8 %	1.4 %
Concentration SD	0.0 ppm	0.0 ppm	0.1 ppm

	Ni 231.604 {446} (Axial)	Pb 220.353 {453} (Axial)	Sn 189.989 {478} (Axial)
Concentration average	5.630 ppm	5.529 ppm	5.578 ppm
Concentration per Run 1	5.649 ppm	5.537 ppm	5.588 ppm

	Ni 231.604 {446} (Axial)	Pb 220.353 {453} (Axial)	Sn 189.989 {478} (Axial)
Concentration per Run 2	5.550 ppm	5.456 ppm	5.498 ppm
Concentration per Run 3	5.691 ppm	5.595 ppm	5.648 ppm
Concentration RSD	1.3 %	1.3 %	1.4 %
Concentration SD	0.1 ppm	0.1 ppm	0.1 ppm

	Tl 190.856 {477} (Axial)	As 189.042 {478} (Axial)	Ba 233.527 {445} (Axial)
Concentration average	5.271 ppm	6.090 ppm	6.341 ppm
Concentration per Run 1	5.276 ppm	6.116 ppm	6.385 ppm
Concentration per Run 2	5.184 ppm	6.022 ppm	6.264 ppm
Concentration per Run 3	5.354 ppm	6.131 ppm	6.375 ppm
Concentration RSD	1.6 %	1.0 %	1.1 %
Concentration SD	0.1 ppm	0.1 ppm	0.1 ppm

	Mo 202.030 {467} (Axial)	S 182.034 {485} (Axial)	Si 251.611 {134} (Axial)
Concentration average	5.758 ppm	2,314.830 ppm	61.598 ppm
Concentration per Run 1	5.791 ppm	2,329.095 ppm	61.644 ppm
Concentration per Run 2	5.693 ppm	2,287.743 ppm	61.645 ppm
Concentration per Run 3	5.791 ppm	2,327.652 ppm	61.505 ppm
Concentration RSD	1.0 %	1.0 %	0.1 %
Concentration SD	0.1 ppm	23.5 ppm	0.1 ppm

	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)
Concentration average	5.903 ppm	6.367 ppm	5.200 ppm
Concentration per Run 1	5.955 ppm	6.395 ppm	5.170 ppm
Concentration per Run 2	5.837 ppm	6.309 ppm	5.224 ppm
Concentration per Run 3	5.917 ppm	6.396 ppm	5.205 ppm
Concentration RSD	1.0 %	0.8 %	0.5 %
Concentration SD	0.1 ppm	0.0 ppm	0.0 ppm

	Cr 267.716 {126} (Axial)	Mn 257.610 {131} (Axial)	Y 360.073 {94} (Radial)
Concentration average	5.280 ppm	6.397 ppm	93.960 %
Concentration per Run 1	5.289 ppm	6.411 ppm	93.341 %
Concentration per Run 2	5.259 ppm	6.375 ppm	94.118 %
Concentration per Run 3	5.292 ppm	6.405 ppm	94.420 %
Concentration RSD	0.3 %	0.3 %	0.6 %
Concentration SD	0.0 ppm	0.0 ppm	0.6 %

	Y 224.306 {450} (Axial)	In 230.606 {446} (Axial)	Y 360.073 {94} (Axial)
Concentration average	84.357 %	74.213 %	86.322 %
Concentration per Run 1	83.540 %	73.678 %	86.446 %
Concentration per Run 2	85.022 %	74.974 %	86.160 %
Concentration per Run 3	84.508 %	73.987 %	86.360 %
Concentration RSD	0.9 %	0.9 %	0.2 %
Concentration SD	0.8 %	0.7 %	0.1 %

	Na 818.326 {41} (Radial)	Zn 206.200 {463} (Axial)	Cd 228.802 {447} (Axial)
Concentration average	1,870.344 ppm	5.494 ppm	6.073 ppm

	Na 818.326 {41} (Radial)	Zn 206.200 {463} (Axial)	Cd 228.802 {447} (Axial)
Concentration per Run 1	1,879.424 ppm	5.504 ppm	6.113 ppm
Concentration per Run 2	1,867.748 ppm	5.428 ppm	5.998 ppm
Concentration per Run 3	1,863.861 ppm	5.551 ppm	6.107 ppm
Concentration RSD	0.4 %	1.1 %	1.1 %
Concentration SD	8.1 ppm	0.1 ppm	0.1 ppm

	Cu 324.754 {104} (Radial)
Concentration average	5.609 ppm
Concentration per Run 1	5.571 ppm
Concentration per Run 2	5.654 ppm
Concentration per Run 3	5.602 ppm
Concentration RSD	0.8 %
Concentration SD	0.0 ppm

	Al 308.215 {109} (Radial)	B 249.678 {135} (Radial)	Be 313.042 {108} (Radial)	Ca 317.933 {106} (Radial)
Intensity average	138 cps	259 cps	14,006 cps	159,469 cps

	Ca 373.690 {90} (Radial)	Fe 259.940 {130} (Radial)	Fe 271.441 {124} (Radial)	K 766.490 {44} (Radial)
Intensity average	68,552 cps	958 cps	65 cps	16,173 cps

	Li 670.784 {50} (Radial)	Mg 279.079 {121} (Radial)	Na 589.592 {57} (Radial)	Sr 421.552 {80} (Radial)
Intensity average	15,647 cps	6,602 cps	571,706 cps	256,142 cps

	Ti 334.941 {101} (Radial)	V 292.402 {115} (Radial)	Co 228.616 {447} (Axial)	Ni 231.604 {446} (Axial)
Intensity average	2,051 cps	437 cps	2,126 cps	1,453 cps

	Pb 220.353 {453} (Axial)	Sn 189.989 {478} (Axial)	Tl 190.856 {477} (Axial)	As 189.042 {478} (Axial)
Intensity average	497 cps	566 cps	361 cps	295 cps

	Ba 233.527 {445} (Axial)	Mo 202.030 {467} (Axial)	S 182.034 {485} (Axial)	Si 251.611 {134} (Axial)
Intensity average	5,261 cps	2,638 cps	68,919 cps	19,758 cps

	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)	Cr 267.716 {126} (Axial)
Intensity average	483 cps	278 cps	5,797 cps	4,091 cps

	Mn 257.610 {131} (Axial)	Y 360.073 {94} (Radial)	Y 224.306 {450} (Axial)	In 230.606 {446} (Axial)
Intensity average	38,865 cps	4,634 cps	6,765 cps	2,132 cps

	Y 360.073 {94} (Axial)	Na 818.326 {41} (Radial)	Zn 206.200 {463} (Axial)	Cd 228.802 {447} (Axial)
Intensity average	114,143 cps	28,824 cps	2,282 cps	4,021 cps

	Cu 324.754 {104} (Radial)
Intensity average	651 cps

Comprehensive sample report

11/28/2014 10:10:14 PM

MS L734231-16 WG756747

Sample Type UNKNOWN Analysis Date 11/28/2014 3:56:38 PM

Dilution Factor 5

	Al 308.215 {109} (Radial)	B 249.678 {135} (Radial)	Be 313.042 {108} (Radial)
Concentration average	9.825 ppm	2.625 ppm	0.919 ppm
Concentration per Run 1	9.590 ppm	2.588 ppm	0.913 ppm
Concentration per Run 2	9.944 ppm	2.652 ppm	0.922 ppm
Concentration per Run 3	9.940 ppm	2.633 ppm	0.923 ppm
Concentration RSD	2.1 %	1.3 %	0.6 %
Concentration SD	0.2 ppm	0.0 ppm	0.0 ppm

	Ca 317.933 {106} (Radial)	Ca 373.690 {90} (Radial)	Fe 259.940 {130} (Radial)
Concentration average	1,934.622 ppm	2,098.313 ppm	12.633 ppm
Concentration per Run 1	1,912.663 ppm	2,078.415 ppm	12.505 ppm
Concentration per Run 2	1,939.471 ppm	2,100.223 ppm	12.713 ppm
Concentration per Run 3	1,951.732 ppm	2,116.302 ppm	12.682 ppm
Concentration RSD	1.0 %	0.9 %	0.9 %
Concentration SD	20.0 ppm	19.0 ppm	0.1 ppm

	Fe 271.441 {124} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	13.941 ppm	108.001 ppm	1.509 ppm
Concentration per Run 1	13.912 ppm	106.863 ppm	1.503 ppm
Concentration per Run 2	13.551 ppm	108.518 ppm	1.507 ppm
Concentration per Run 3	14.359 ppm	108.624 ppm	1.517 ppm
Concentration RSD	2.9 %	0.9 %	0.5 %
Concentration SD	0.4 ppm	1.0 ppm	0.0 ppm

	Mg 279.079 {121} (Radial)	Na 589.592 {57} (Radial)	Sr 421.552 {80} (Radial)
Concentration average	825.812 ppm	1,545.215 ppm	38.168 ppm
Concentration per Run 1	818.324 ppm	1,533.259 ppm	37.853 ppm
Concentration per Run 2	828.116 ppm	1,552.167 ppm	38.062 ppm
Concentration per Run 3	830.996 ppm	1,550.221 ppm	38.589 ppm
Concentration RSD	0.8 %	0.7 %	1.0 %
Concentration SD	6.6 ppm	10.4 ppm	0.4 ppm

	Ti 334.941 {101} (Radial)	V 292.402 {115} (Radial)	Co 228.616 {447} (Axial)
Concentration average	1.197 ppm	1.014 ppm	1.044 ppm
Concentration per Run 1	1.184 ppm	0.983 ppm	0.998 ppm
Concentration per Run 2	1.208 ppm	1.021 ppm	1.120 ppm
Concentration per Run 3	1.198 ppm	1.039 ppm	1.014 ppm
Concentration RSD	1.0 %	2.8 %	6.4 %
Concentration SD	0.0 ppm	0.0 ppm	0.1 ppm

	Ni 231.604 {446} (Axial)	Pb 220.353 {453} (Axial)	Sn 189.989 {478} (Axial)
Concentration average	1.000 ppm	0.997 ppm	0.980 ppm
Concentration per Run 1	0.953 ppm	0.949 ppm	0.929 ppm

	Ni 231.604 {446} (Axial)	Pb 220.353 {453} (Axial)	Sn 189.989 {478} (Axial)
Concentration per Run 2	1.071 ppm	1.067 ppm	1.052 ppm
Concentration per Run 3	0.976 ppm	0.975 ppm	0.960 ppm
Concentration RSD	6.3 %	6.2 %	6.5 %
Concentration SD	0.1 ppm	0.1 ppm	0.1 ppm

	Tl 190.856 {477} (Axial)	As 189.042 {478} (Axial)	Ba 233.527 {445} (Axial)
Concentration average	0.944 ppm	1.060 ppm	1.605 ppm
Concentration per Run 1	0.894 ppm	1.011 ppm	1.531 ppm
Concentration per Run 2	1.006 ppm	1.138 ppm	1.723 ppm
Concentration per Run 3	0.932 ppm	1.031 ppm	1.560 ppm
Concentration RSD	6.1 %	6.4 %	6.5 %
Concentration SD	0.1 ppm	0.1 ppm	0.1 ppm

	Mo 202.030 {467} (Axial)	S 182.034 {485} (Axial)	Si 251.611 {134} (Axial)
Concentration average	1.230 ppm	2,190.468 ppm	55.094 ppm
Concentration per Run 1	1.178 ppm	2,097.809 ppm	55.111 ppm
Concentration per Run 2	1.321 ppm	2,348.699 ppm	54.895 ppm
Concentration per Run 3	1.191 ppm	2,124.896 ppm	55.275 ppm
Concentration RSD	6.4 %	6.3 %	0.3 %
Concentration SD	0.1 ppm	137.7 ppm	0.2 ppm

	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)
Concentration average	0.987 ppm	1.101 ppm	1.004 ppm
Concentration per Run 1	0.969 ppm	1.069 ppm	0.999 ppm
Concentration per Run 2	1.052 ppm	1.176 ppm	0.999 ppm
Concentration per Run 3	0.941 ppm	1.057 ppm	1.014 ppm
Concentration RSD	5.8 %	6.0 %	0.8 %
Concentration SD	0.1 ppm	0.1 ppm	0.0 ppm

	Cr 267.716 {126} (Axial)	Mn 257.610 {131} (Axial)	Y 360.073 {94} (Radial)
Concentration average	0.914 ppm	1.803 ppm	94.272 %
Concentration per Run 1	0.915 ppm	1.810 ppm	95.069 %
Concentration per Run 2	0.916 ppm	1.798 ppm	94.021 %
Concentration per Run 3	0.911 ppm	1.802 ppm	93.725 %
Concentration RSD	0.3 %	0.3 %	0.7 %
Concentration SD	0.0 ppm	0.0 ppm	0.7 %

	Y 224.306 {450} (Axial)	In 230.606 {446} (Axial)	Y 360.073 {94} (Axial)
Concentration average	83.717 %	73.744 %	87.809 %
Concentration per Run 1	86.499 %	76.340 %	87.625 %
Concentration per Run 2	78.277 %	69.115 %	88.299 %
Concentration per Run 3	86.374 %	75.777 %	87.504 %
Concentration RSD	5.6 %	5.4 %	0.5 %
Concentration SD	4.7 %	4.0 %	0.4 %

	Na 818.326 {41} (Radial)	Zn 206.200 {463} (Axial)	Cd 228.802 {447} (Axial)
Concentration average	1,662.408 ppm	1.019 ppm	1.063 ppm

	Na 818.326 {41} (Radial)	Zn 206.200 {463} (Axial)	Cd 228.802 {447} (Axial)
Concentration per Run 1	1,646.063 ppm	0.976 ppm	1.015 ppm
Concentration per Run 2	1,671.745 ppm	1.084 ppm	1.144 ppm
Concentration per Run 3	1,669.417 ppm	0.998 ppm	1.031 ppm
Concentration RSD	0.9 %	5.6 %	6.6 %
Concentration SD	14.2 ppm	0.1 ppm	0.1 ppm

	Cu 324.754 {104} (Radial)
Concentration average	0.964 ppm
Concentration per Run 1	0.970 ppm
Concentration per Run 2	0.942 ppm
Concentration per Run 3	0.979 ppm
Concentration RSD	2.0 %
Concentration SD	0.0 ppm

	Al 308.215 {109} (Radial)	B 249.678 {135} (Radial)	Be 313.042 {108} (Radial)	Ca 317.933 {106} (Radial)
Intensity average	82 cps	91 cps	2,375 cps	143,210 cps

	Ca 373.690 {90} (Radial)	Fe 259.940 {130} (Radial)	Fe 271.441 {124} (Radial)	K 766.490 {44} (Radial)
Intensity average	60,870 cps	606 cps	40 cps	10,673 cps

	Li 670.784 {50} (Radial)	Mg 279.079 {121} (Radial)	Na 589.592 {57} (Radial)	Sr 421.552 {80} (Radial)
Intensity average	3,737 cps	5,705 cps	505,899 cps	208,753 cps

	Ti 334.941 {101} (Radial)	V 292.402 {115} (Radial)	Co 228.616 {447} (Axial)	Ni 231.604 {446} (Axial)
Intensity average	427 cps	77 cps	378 cps	256 cps

	Pb 220.353 {453} (Axial)	Sn 189.989 {478} (Axial)	Tl 190.856 {477} (Axial)	As 189.042 {478} (Axial)
Intensity average	88 cps	100 cps	62 cps	48 cps

	Ba 233.527 {445} (Axial)	Mo 202.030 {467} (Axial)	S 182.034 {485} (Axial)	Si 251.611 {134} (Axial)
Intensity average	1,319 cps	559 cps	64,573 cps	17,979 cps

	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)	Cr 267.716 {126} (Axial)
Intensity average	81 cps	46 cps	1,144 cps	722 cps

	Mn 257.610 {131} (Axial)	Y 360.073 {94} (Radial)	Y 224.306 {450} (Axial)	In 230.606 {446} (Axial)
Intensity average	11,147 cps	4,650 cps	6,714 cps	2,118 cps

	Y 360.073 {94} (Axial)	Na 818.326 {41} (Radial)	Zn 206.200 {463} (Axial)	Cd 228.802 {447} (Axial)
Intensity average	116,110 cps	25,687 cps	419 cps	700 cps

	Cu 324.754 {104} (Radial)
Intensity average	117 cps

Comprehensive sample report

11/28/2014 10:10:14 PM

MSD L734231-16 WG756747

Sample Type UNKNOWN Analysis Date 11/28/2014 4:01:15 PM

Dilution Factor 5

	Al 308.215 {109} (Radial)	B 249.678 {135} (Radial)	Be 313.042 {108} (Radial)
Concentration average	11.054 ppm	2.725 ppm	0.971 ppm
Concentration per Run 1	11.399 ppm	2.766 ppm	0.977 ppm
Concentration per Run 2	10.753 ppm	2.669 ppm	0.969 ppm
Concentration per Run 3	11.010 ppm	2.740 ppm	0.968 ppm
Concentration RSD	2.9 %	1.8 %	0.5 %
Concentration SD	0.3 ppm	0.1 ppm	0.0 ppm

	Ca 317.933 {106} (Radial)	Ca 373.690 {90} (Radial)	Fe 259.940 {130} (Radial)
Concentration average	1,980.178 ppm	2,149.369 ppm	13.758 ppm
Concentration per Run 1	1,990.845 ppm	2,168.410 ppm	13.879 ppm
Concentration per Run 2	1,982.967 ppm	2,142.800 ppm	13.749 ppm
Concentration per Run 3	1,966.722 ppm	2,136.896 ppm	13.646 ppm
Concentration RSD	0.6 %	0.8 %	0.8 %
Concentration SD	12.3 ppm	16.8 ppm	0.1 ppm

	Fe 271.441 {124} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	15.076 ppm	111.485 ppm	1.570 ppm
Concentration per Run 1	15.307 ppm	112.294 ppm	1.579 ppm
Concentration per Run 2	15.156 ppm	110.945 ppm	1.550 ppm
Concentration per Run 3	14.766 ppm	111.216 ppm	1.582 ppm
Concentration RSD	1.9 %	0.6 %	1.1 %
Concentration SD	0.3 ppm	0.7 ppm	0.0 ppm

	Mg 279.079 {121} (Radial)	Na 589.592 {57} (Radial)	Sr 421.552 {80} (Radial)
Concentration average	856.411 ppm	1,579.392 ppm	38.833 ppm
Concentration per Run 1	860.858 ppm	1,601.736 ppm	39.074 ppm
Concentration per Run 2	856.095 ppm	1,584.011 ppm	38.841 ppm
Concentration per Run 3	852.280 ppm	1,552.429 ppm	38.584 ppm
Concentration RSD	0.5 %	1.6 %	0.6 %
Concentration SD	4.3 ppm	25.0 ppm	0.2 ppm

	Ti 334.941 {101} (Radial)	V 292.402 {115} (Radial)	Co 228.616 {447} (Axial)
Concentration average	1.274 ppm	1.093 ppm	1.057 ppm
Concentration per Run 1	1.285 ppm	1.106 ppm	1.069 ppm
Concentration per Run 2	1.266 ppm	1.114 ppm	1.045 ppm
Concentration per Run 3	1.271 ppm	1.059 ppm	1.057 ppm
Concentration RSD	0.8 %	2.7 %	1.1 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm

	Ni 231.604 {446} (Axial)	Pb 220.353 {453} (Axial)	Sn 189.989 {478} (Axial)
Concentration average	1.017 ppm	1.015 ppm	0.991 ppm
Concentration per Run 1	1.031 ppm	1.018 ppm	1.008 ppm

	Ni 231.604 {446} (Axial)	Pb 220.353 {453} (Axial)	Sn 189.989 {478} (Axial)
Concentration per Run 2	1.000 ppm	1.008 ppm	0.977 ppm
Concentration per Run 3	1.020 ppm	1.020 ppm	0.989 ppm
Concentration RSD	1.6 %	0.6 %	1.6 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm

	Tl 190.856 {477} (Axial)	As 189.042 {478} (Axial)	Ba 233.527 {445} (Axial)
Concentration average	0.950 ppm	1.075 ppm	1.633 ppm
Concentration per Run 1	0.951 ppm	1.101 ppm	1.653 ppm
Concentration per Run 2	0.955 ppm	1.065 ppm	1.621 ppm
Concentration per Run 3	0.945 ppm	1.059 ppm	1.625 ppm
Concentration RSD	0.5 %	2.1 %	1.1 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm

	Mo 202.030 {467} (Axial)	S 182.034 {485} (Axial)	Si 251.611 {134} (Axial)
Concentration average	1.249 ppm	2,162.091 ppm	59.189 ppm
Concentration per Run 1	1.264 ppm	2,186.473 ppm	58.294 ppm
Concentration per Run 2	1.242 ppm	2,150.835 ppm	60.350 ppm
Concentration per Run 3	1.240 ppm	2,148.967 ppm	58.923 ppm
Concentration RSD	1.1 %	1.0 %	1.8 %
Concentration SD	0.0 ppm	21.1 ppm	1.1 ppm

	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)
Concentration average	1.003 ppm	1.144 ppm	1.055 ppm
Concentration per Run 1	1.027 ppm	1.166 ppm	1.038 ppm
Concentration per Run 2	1.013 ppm	1.111 ppm	1.077 ppm
Concentration per Run 3	0.969 ppm	1.154 ppm	1.050 ppm
Concentration RSD	3.0 %	2.5 %	1.9 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm

	Cr 267.716 {126} (Axial)	Mn 257.610 {131} (Axial)	Y 360.073 {94} (Radial)
Concentration average	0.968 ppm	1.892 ppm	93.667 %
Concentration per Run 1	0.946 ppm	1.863 ppm	92.850 %
Concentration per Run 2	0.985 ppm	1.924 ppm	93.670 %
Concentration per Run 3	0.972 ppm	1.887 ppm	94.482 %
Concentration RSD	2.0 %	1.6 %	0.9 %
Concentration SD	0.0 ppm	0.0 ppm	0.8 %

	Y 224.306 {450} (Axial)	In 230.606 {446} (Axial)	Y 360.073 {94} (Axial)
Concentration average	85.144 %	75.210 %	87.054 %
Concentration per Run 1	83.960 %	74.365 %	88.129 %
Concentration per Run 2	85.060 %	75.393 %	85.711 %
Concentration per Run 3	86.410 %	75.871 %	87.321 %
Concentration RSD	1.4 %	1.0 %	1.4 %
Concentration SD	1.2 %	0.8 %	1.2 %

	Na 818.326 {41} (Radial)	Zn 206.200 {463} (Axial)	Cd 228.802 {447} (Axial)
Concentration average	1,705.088 ppm	1.031 ppm	1.086 ppm

	Na 818.326 {41} (Radial)	Zn 206.200 {463} (Axial)	Cd 228.802 {447} (Axial)
Concentration per Run 1	1,715.523 ppm	1.040 ppm	1.100 ppm
Concentration per Run 2	1,695.869 ppm	1.015 ppm	1.080 ppm
Concentration per Run 3	1,703.872 ppm	1.036 ppm	1.079 ppm
Concentration RSD	0.6 %	1.3 %	1.1 %
Concentration SD	9.9 ppm	0.0 ppm	0.0 ppm

	Cu 324.754 {104} (Radial)
Concentration average	1.005 ppm
Concentration per Run 1	1.006 ppm
Concentration per Run 2	1.000 ppm
Concentration per Run 3	1.010 ppm
Concentration RSD	0.5 %
Concentration SD	0.0 ppm

	Al 308.215 {109} (Radial)	B 249.678 {135} (Radial)	Be 313.042 {108} (Radial)	Ca 317.933 {106} (Radial)
Intensity average	91 cps	94 cps	2,492 cps	145,643 cps

	Ca 373.690 {90} (Radial)	Fe 259.940 {130} (Radial)	Fe 271.441 {124} (Radial)	K 766.490 {44} (Radial)
Intensity average	61,951 cps	656 cps	43 cps	10,946 cps

	Li 670.784 {50} (Radial)	Mg 279.079 {121} (Radial)	Na 589.592 {57} (Radial)	Sr 421.552 {80} (Radial)
Intensity average	3,863 cps	5,878 cps	513,742 cps	211,031 cps

	Ti 334.941 {101} (Radial)	V 292.402 {115} (Radial)	Co 228.616 {447} (Axial)	Ni 231.604 {446} (Axial)
Intensity average	451 cps	82 cps	392 cps	267 cps

	Pb 220.353 {453} (Axial)	Sn 189.989 {478} (Axial)	Tl 190.856 {477} (Axial)	As 189.042 {478} (Axial)
Intensity average	92 cps	103 cps	64 cps	50 cps

	Ba 233.527 {445} (Axial)	Mo 202.030 {467} (Axial)	S 182.034 {485} (Axial)	Si 251.611 {134} (Axial)
Intensity average	1,369 cps	579 cps	64,970 cps	19,144 cps

	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)	Cr 267.716 {126} (Axial)
Intensity average	84 cps	49 cps	1,191 cps	758 cps

	Mn 257.610 {131} (Axial)	Y 360.073 {94} (Radial)	Y 224.306 {450} (Axial)	In 230.606 {446} (Axial)
Intensity average	11,591 cps	4,620 cps	6,828 cps	2,160 cps

	Y 360.073 {94} (Axial)	Na 818.326 {41} (Radial)	Zn 206.200 {463} (Axial)	Cd 228.802 {447} (Axial)
Intensity average	115,111 cps	26,182 cps	432 cps	729 cps

	Cu 324.754 {104} (Radial)
Intensity average	121 cps

Comprehensive sample report

11/28/2014 10:10:14 PM

L734231-19 WG756747

Sample Type UNKNOWN Analysis Date 11/28/2014 4:05:50 PM

Dilution Factor 5

	Al 308.215 {109} (Radial)	B 249.678 {135} (Radial)	Be 313.042 {108} (Radial)
Concentration average	4.051 ppm	2.123 ppm	0.000 ppm
Concentration per Run 1	3.346 ppm	1.847 ppm	0.001 ppm
Concentration per Run 2	4.412 ppm	2.311 ppm	0.000 ppm
Concentration per Run 3	4.395 ppm	2.212 ppm	0.001 ppm
Concentration RSD	15.1 %	11.5 %	154.5 %
Concentration SD	0.6 ppm	0.2 ppm	0.0 ppm

	Ca 317.933 {106} (Radial)	Ca 373.690 {90} (Radial)	Fe 259.940 {130} (Radial)
Concentration average	1,561.716 ppm	1,685.129 ppm	5.238 ppm
Concentration per Run 1	1,399.609 ppm	1,507.884 ppm	4.628 ppm
Concentration per Run 2	1,698.425 ppm	1,833.661 ppm	5.741 ppm
Concentration per Run 3	1,587.115 ppm	1,713.841 ppm	5.345 ppm
Concentration RSD	9.7 %	9.8 %	10.8 %
Concentration SD	151.0 ppm	164.8 ppm	0.6 ppm

	Fe 271.441 {124} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	6.425 ppm	201.220 ppm	0.547 ppm
Concentration per Run 1	6.023 ppm	179.391 ppm	0.483 ppm
Concentration per Run 2	6.745 ppm	218.811 ppm	0.600 ppm
Concentration per Run 3	6.509 ppm	205.458 ppm	0.557 ppm
Concentration RSD	5.7 %	10.0 %	10.9 %
Concentration SD	0.4 ppm	20.0 ppm	0.1 ppm

	Mg 279.079 {121} (Radial)	Na 589.592 {57} (Radial)	Sr 421.552 {80} (Radial)
Concentration average	951.127 ppm	3,135.256 ppm	31.410 ppm
Concentration per Run 1	850.880 ppm	2,855.209 ppm	27.926 ppm
Concentration per Run 2	1,035.686 ppm	3,384.411 ppm	34.211 ppm
Concentration per Run 3	966.817 ppm	3,166.149 ppm	32.093 ppm
Concentration RSD	9.8 %	8.5 %	10.2 %
Concentration SD	93.4 ppm	266.0 ppm	3.2 ppm

	Ti 334.941 {101} (Radial)	V 292.402 {115} (Radial)	Co 228.616 {447} (Axial)
Concentration average	0.188 ppm	0.042 ppm	0.025 ppm
Concentration per Run 1	0.174 ppm	0.037 ppm	0.024 ppm
Concentration per Run 2	0.198 ppm	0.034 ppm	0.024 ppm
Concentration per Run 3	0.191 ppm	0.056 ppm	0.025 ppm
Concentration RSD	6.5 %	27.4 %	2.4 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm

	Ni 231.604 {446} (Axial)	Pb 220.353 {453} (Axial)	Sn 189.989 {478} (Axial)
Concentration average	0.002 ppm	0.007 ppm	-0.010 ppm
Concentration per Run 1	0.002 ppm	0.003 ppm	-0.007 ppm

	Ni 231.604 {446} (Axial)	Pb 220.353 {453} (Axial)	Sn 189.989 {478} (Axial)
Concentration per Run 2	0.001 ppm	0.011 ppm	-0.005 ppm
Concentration per Run 3	0.002 ppm	0.008 ppm	-0.017 ppm
Concentration RSD	35.1 %	60.0 %	67.0 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm

	Tl 190.856 {477} (Axial)	As 189.042 {478} (Axial)	Ba 233.527 {445} (Axial)
Concentration average	0.000 ppm	-0.020 ppm	0.302 ppm
Concentration per Run 1	0.006 ppm	-0.019 ppm	0.303 ppm
Concentration per Run 2	0.001 ppm	-0.020 ppm	0.303 ppm
Concentration per Run 3	-0.007 ppm	-0.020 ppm	0.300 ppm
Concentration RSD	6,369.7 %	3.8 %	0.6 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm

	Mo 202.030 {467} (Axial)	S 182.034 {485} (Axial)	Si 251.611 {134} (Axial)
Concentration average	0.530 ppm	2,340.359 ppm	47.523 ppm
Concentration per Run 1	0.528 ppm	2,342.022 ppm	47.260 ppm
Concentration per Run 2	0.533 ppm	2,353.263 ppm	47.849 ppm
Concentration per Run 3	0.528 ppm	2,325.792 ppm	47.460 ppm
Concentration RSD	0.5 %	0.6 %	0.6 %
Concentration SD	0.0 ppm	13.8 ppm	0.3 ppm

	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)
Concentration average	-0.008 ppm	0.005 ppm	-0.006 ppm
Concentration per Run 1	-0.012 ppm	0.001 ppm	-0.006 ppm
Concentration per Run 2	0.003 ppm	0.000 ppm	-0.004 ppm
Concentration per Run 3	-0.015 ppm	0.015 ppm	-0.007 ppm
Concentration RSD	124.2 %	152.2 %	29.1 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm

	Cr 267.716 {126} (Axial)	Mn 257.610 {131} (Axial)	Y 360.073 {94} (Radial)
Concentration average	0.009 ppm	0.872 ppm	94.995 %
Concentration per Run 1	0.010 ppm	0.866 ppm	102.809 %
Concentration per Run 2	0.008 ppm	0.877 ppm	88.765 %
Concentration per Run 3	0.010 ppm	0.872 ppm	93.411 %
Concentration RSD	12.1 %	0.6 %	7.5 %
Concentration SD	0.0 ppm	0.0 ppm	7.2 %

	Y 224.306 {450} (Axial)	In 230.606 {446} (Axial)	Y 360.073 {94} (Axial)
Concentration average	83.010 %	72.253 %	84.591 %
Concentration per Run 1	82.523 %	71.911 %	84.585 %
Concentration per Run 2	82.615 %	71.955 %	84.275 %
Concentration per Run 3	83.893 %	72.895 %	84.914 %
Concentration RSD	0.9 %	0.8 %	0.4 %
Concentration SD	0.8 %	0.6 %	0.3 %

	Na 818.326 {41} (Radial)	Zn 206.200 {463} (Axial)	Cd 228.802 {447} (Axial)
Concentration average	3,671.154 ppm	0.022 ppm	0.002 ppm

	Na 818.326 {41} (Radial)	Zn 206.200 {463} (Axial)	Cd 228.802 {447} (Axial)
Concentration per Run 1	3,266.048 ppm	0.022 ppm	0.001 ppm
Concentration per Run 2	3,999.139 ppm	0.023 ppm	0.002 ppm
Concentration per Run 3	3,748.275 ppm	0.022 ppm	0.002 ppm
Concentration RSD	10.1 %	2.8 %	35.4 %
Concentration SD	372.6 ppm	0.0 ppm	0.0 ppm

	Cu 324.754 {104} (Radial)
Concentration average	0.008 ppm
Concentration per Run 1	0.025 ppm
Concentration per Run 2	-0.003 ppm
Concentration per Run 3	0.002 ppm
Concentration RSD	188.3 %
Concentration SD	0.0 ppm

	Al 308.215 {109} (Radial)	B 249.678 {135} (Radial)	Be 313.042 {108} (Radial)	Ca 317.933 {106} (Radial)
Intensity average	37 cps	74 cps	1 cps	115,940 cps

	Ca 373.690 {90} (Radial)	Fe 259.940 {130} (Radial)	Fe 271.441 {124} (Radial)	K 766.490 {44} (Radial)
Intensity average	49,021 cps	253 cps	19 cps	19,921 cps

	Li 670.784 {50} (Radial)	Mg 279.079 {121} (Radial)	Na 589.592 {57} (Radial)	Sr 421.552 {80} (Radial)
Intensity average	1,357 cps	6,588 cps	1,029,942 cps	172,231 cps

	Ti 334.941 {101} (Radial)	V 292.402 {115} (Radial)	Co 228.616 {447} (Axial)	Ni 231.604 {446} (Axial)
Intensity average	68 cps	3 cps	7 cps	1 cps

	Pb 220.353 {453} (Axial)	Sn 189.989 {478} (Axial)	Tl 190.856 {477} (Axial)	As 189.042 {478} (Axial)
Intensity average	0 cps	0 cps	-3 cps	-4 cps

	Ba 233.527 {445} (Axial)	Mo 202.030 {467} (Axial)	S 182.034 {485} (Axial)	Si 251.611 {134} (Axial)
Intensity average	248 cps	241 cps	68,568 cps	14,944 cps

	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)	Cr 267.716 {126} (Axial)
Intensity average	1 cps	-1 cps	0 cps	9 cps

	Mn 257.610 {131} (Axial)	Y 360.073 {94} (Radial)	Y 224.306 {450} (Axial)	In 230.606 {446} (Axial)
Intensity average	5,194 cps	4,685 cps	6,657 cps	2,075 cps

	Y 360.073 {94} (Axial)	Na 818.326 {41} (Radial)	Zn 206.200 {463} (Axial)	Cd 228.802 {447} (Axial)
Intensity average	111,854 cps	57,051 cps	9 cps	5 cps

	Cu 324.754 {104} (Radial)
Intensity average	7 cps

Comprehensive sample report

11/28/2014 10:10:14 PM

CCV 14J27642

Sample Type QC Analysis Date 11/28/2014 4:10:00 PM

Dilution Factor 1

	Al 308.215 {109} (Radial)	B 249.678 {135} (Radial)	Be 313.042 {108} (Radial)	Ca 317.933 {106} (Radial)
Concentration average	9.676 ppm	1.964 ppm	0.195 ppm	49.858 ppm
Concentration per Run 1	9.692 ppm	1.955 ppm	0.194 ppm	49.617 ppm
Concentration per Run 2	9.651 ppm	1.960 ppm	0.194 ppm	49.967 ppm
Concentration per Run 3	9.684 ppm	1.978 ppm	0.196 ppm	49.991 ppm
Concentration RSD	0.2 %	0.6 %	0.5 %	0.4 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.2 ppm

	Ca 373.690 {90} (Radial)	Fe 259.940 {130} (Radial)	Fe 271.441 {124} (Radial)	K 766.490 {44} (Radial)
Concentration average	52.682 ppm	9.869 ppm	10.971 ppm	46.649 ppm
Concentration per Run 1	52.183 ppm	9.825 ppm	10.937 ppm	46.585 ppm
Concentration per Run 2	52.765 ppm	9.877 ppm	11.037 ppm	46.591 ppm
Concentration per Run 3	53.099 ppm	9.906 ppm	10.939 ppm	46.773 ppm
Concentration RSD	0.9 %	0.4 %	0.5 %	0.2 %
Concentration SD	0.5 ppm	0.0 ppm	0.1 ppm	0.1 ppm

	Li 670.784 {50} (Radial)	Mg 279.079 {121} (Radial)	Na 589.592 {57} (Radial)	Sr 421.552 {80} (Radial)
Concentration average	1.428 ppm	9.695 ppm	47.208 ppm	0.964 ppm
Concentration per Run 1	1.421 ppm	9.710 ppm	47.101 ppm	0.962 ppm
Concentration per Run 2	1.426 ppm	9.646 ppm	47.112 ppm	0.962 ppm
Concentration per Run 3	1.439 ppm	9.730 ppm	47.409 ppm	0.967 ppm
Concentration RSD	0.7 %	0.5 %	0.4 %	0.3 %
Concentration SD	0.0 ppm	0.0 ppm	0.2 ppm	0.0 ppm

	Ti 334.941 {101} (Radial)	V 292.402 {115} (Radial)	Co 228.616 {447} (Axial)	Ni 231.604 {446} (Axial)
Concentration average	0.996 ppm	0.985 ppm	0.997 ppm	2.002 ppm
Concentration per Run 1	0.991 ppm	0.985 ppm	0.998 ppm	2.009 ppm
Concentration per Run 2	0.994 ppm	0.980 ppm	0.999 ppm	2.005 ppm
Concentration per Run 3	1.003 ppm	0.989 ppm	0.994 ppm	1.992 ppm
Concentration RSD	0.6 %	0.5 %	0.3 %	0.4 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Pb 220.353 {453} (Axial)	Sn 189.989 {478} (Axial)	Tl 190.856 {477} (Axial)	As 189.042 {478} (Axial)
Concentration average	0.481 ppm	1.965 ppm	1.883 ppm	1.955 ppm
Concentration per Run 1	0.482 ppm	1.968 ppm	1.885 ppm	1.958 ppm
Concentration per Run 2	0.483 ppm	1.972 ppm	1.885 ppm	1.953 ppm
Concentration per Run 3	0.478 ppm	1.954 ppm	1.877 ppm	1.953 ppm
Concentration RSD	0.6 %	0.5 %	0.3 %	0.1 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Ba 233.527 {445} (Axial)	Mo 202.030 {467} (Axial)	S 182.034 {485} (Axial)	Si 251.611 {134} (Axial)
Concentration average	0.508 ppm	0.494 ppm	4.597 ppm	1.913 ppm
Concentration per Run 1	0.509 ppm	0.495 ppm	4.627 ppm	1.918 ppm
Concentration per Run 2	0.509 ppm	0.493 ppm	4.590 ppm	1.926 ppm
Concentration per Run 3	0.506 ppm	0.493 ppm	4.574 ppm	1.895 ppm
Concentration RSD	0.4 %	0.2 %	0.6 %	0.8 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)	Cr 267.716 {126} (Axial)
Concentration average	1.929 ppm	1.986 ppm	0.961 ppm	0.994 ppm
Concentration per Run 1	1.936 ppm	1.991 ppm	0.967 ppm	1.004 ppm
Concentration per Run 2	1.932 ppm	1.984 ppm	0.965 ppm	1.000 ppm
Concentration per Run 3	1.919 ppm	1.983 ppm	0.950 ppm	0.978 ppm
Concentration RSD	0.5 %	0.2 %	0.9 %	1.4 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Mn 257.610 {131} (Axial)	Y 360.073 {94} (Radial)	Y 224.306 {450} (Axial)	In 230.606 {446} (Axial)
Concentration average	1.009 ppm	98.147 %	96.223 %	88.767 %
Concentration per Run 1	1.015 ppm	98.028 %	96.317 %	88.871 %
Concentration per Run 2	1.011 ppm	98.057 %	96.181 %	88.646 %
Concentration per Run 3	1.002 ppm	98.356 %	96.172 %	88.784 %
Concentration RSD	0.7 %	0.2 %	0.1 %	0.1 %
Concentration SD	0.0 ppm	0.2 %	0.1 %	0.1 %

	Y 360.073 {94} (Axial)	Na 818.326 {41} (Radial)	Zn 206.200 {463} (Axial)	Cd 228.802 {447} (Axial)
Concentration average	95.913 %	48.256 ppm	2.972 ppm	0.520 ppm
Concentration per Run 1	95.566 %	48.119 ppm	2.980 ppm	0.521 ppm
Concentration per Run 2	95.395 %	48.303 ppm	2.980 ppm	0.520 ppm
Concentration per Run 3	96.779 %	48.346 ppm	2.958 ppm	0.518 ppm
Concentration RSD	0.8 %	0.3 %	0.4 %	0.3 %
Concentration SD	0.8 %	0.1 ppm	0.0 ppm	0.0 ppm

	Cu 324.754 {104} (Radial)
Concentration average	1.918 ppm
Concentration per Run 1	1.915 ppm
Concentration per Run 2	1.914 ppm
Concentration per Run 3	1.925 ppm
Concentration RSD	0.3 %
Concentration SD	0.0 ppm

	Al 308.215 {109} (Radial)	B 249.678 {135} (Radial)	Be 313.042 {108} (Radial)	Ca 317.933 {106} (Radial)
Intensity average	448 cps	396 cps	2,908 cps	21,381 cps

	Ca 373.690 {90} (Radial)	Fe 259.940 {130} (Radial)	Fe 271.441 {124} (Radial)	K 766.490 {44} (Radial)
Intensity average	8,849 cps	2,734 cps	180 cps	26,636 cps

	Li 670.784 {50} (Radial)	Mg 279.079 {121} (Radial)	Na 589.592 {57} (Radial)	Sr 421.552 {80} (Radial)
Intensity average	20,457 cps	387 cps	89,440 cps	30,491 cps

	Ti 334.941 {101} (Radial)	V 292.402 {115} (Radial)	Co 228.616 {447} (Axial)	Ni 231.604 {446} (Axial)
Intensity average	2,050 cps	434 cps	2,431 cps	3,434 cps

	Pb 220.353 {453} (Axial)	Sn 189.989 {478} (Axial)	Tl 190.856 {477} (Axial)	As 189.042 {478} (Axial)
Intensity average	287 cps	1,323 cps	861 cps	602 cps

	Ba 233.527 {445} (Axial)	Mo 202.030 {467} (Axial)	S 182.034 {485} (Axial)	Si 251.611 {134} (Axial)
Intensity average	2,671 cps	1,434 cps	870 cps	3,814 cps

	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)	Cr 267.716 {126} (Axial)
Intensity average	999 cps	551 cps	6,611 cps	4,753 cps

	Mn 257.610 {131} (Axial)	Y 360.073 {94} (Radial)	Y 224.306 {450} (Axial)	In 230.606 {446} (Axial)
Intensity average	37,852 cps	4,841 cps	7,717 cps	2,550 cps

	Y 360.073 {94} (Axial)	Na 818.326 {41} (Radial)	Zn 206.200 {463} (Axial)	Cd 228.802 {447} (Axial)
Intensity average	126,826 cps	4,183 cps	7,823 cps	2,183 cps

	Cu 324.754 {104} (Radial)
Intensity average	1,286 cps

Comprehensive sample report

11/28/2014 10:10:14 PM

CCB

Sample Type QC Analysis Date 11/28/2014 4:14:34 PM

Dilution Factor 1

	Al 308.215 {109} (Radial)	B 249.678 {135} (Radial)	Be 313.042 {108} (Radial)	Ca 317.933 {106} (Radial)
Concentration average	-0.011 ppm	0.009 ppm	0.000 ppm	0.011 ppm
Concentration per Run 1	0.003 ppm	0.010 ppm	0.000 ppm	0.011 ppm
Concentration per Run 2	0.003 ppm	0.004 ppm	0.000 ppm	0.009 ppm
Concentration per Run 3	-0.039 ppm	0.013 ppm	0.000 ppm	0.012 ppm
Concentration RSD	219.1 %	50.1 %	153.4 %	15.4 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Ca 373.690 {90} (Radial)	Fe 259.940 {130} (Radial)	Fe 271.441 {124} (Radial)	K 766.490 {44} (Radial)
Concentration average	0.019 ppm	-0.002 ppm	0.022 ppm	0.034 ppm
Concentration per Run 1	0.017 ppm	-0.004 ppm	-0.025 ppm	0.024 ppm
Concentration per Run 2	0.016 ppm	-0.001 ppm	-0.050 ppm	0.047 ppm
Concentration per Run 3	0.023 ppm	-0.001 ppm	0.141 ppm	0.031 ppm
Concentration RSD	19.5 %	78.6 %	478.0 %	34.0 %
Concentration SD	0.0 ppm	0.0 ppm	0.1 ppm	0.0 ppm

	Li 670.784 {50} (Radial)	Mg 279.079 {121} (Radial)	Na 589.592 {57} (Radial)	Sr 421.552 {80} (Radial)
Concentration average	0.000 ppm	-0.014 ppm	0.046 ppm	0.000 ppm
Concentration per Run 1	0.000 ppm	0.001 ppm	0.051 ppm	0.000 ppm
Concentration per Run 2	0.000 ppm	-0.024 ppm	0.042 ppm	0.000 ppm
Concentration per Run 3	-0.001 ppm	-0.019 ppm	0.044 ppm	0.000 ppm
Concentration RSD	237.1 %	97.9 %	10.5 %	63.4 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Ti 334.941 {101} (Radial)	V 292.402 {115} (Radial)	Co 228.616 {447} (Axial)	Ni 231.604 {446} (Axial)
Concentration average	-0.001 ppm	0.002 ppm	0.000 ppm	0.000 ppm
Concentration per Run 1	-0.003 ppm	0.004 ppm	0.000 ppm	0.000 ppm
Concentration per Run 2	-0.001 ppm	-0.002 ppm	0.000 ppm	0.000 ppm
Concentration per Run 3	0.000 ppm	0.004 ppm	0.000 ppm	0.000 ppm
Concentration RSD	175.4 %	166.8 %	2.7 %	600.6 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Pb 220.353 {453} (Axial)	Sn 189.989 {478} (Axial)	Tl 190.856 {477} (Axial)	As 189.042 {478} (Axial)
Concentration average	0.000 ppm	0.000 ppm	0.001 ppm	-0.002 ppm
Concentration per Run 1	0.000 ppm	0.000 ppm	0.001 ppm	-0.003 ppm
Concentration per Run 2	0.000 ppm	-0.001 ppm	0.002 ppm	-0.001 ppm
Concentration per Run 3	0.000 ppm	0.000 ppm	0.000 ppm	-0.001 ppm
Concentration RSD	362.4 %	151.2 %	78.2 %	56.7 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Ba 233.527 {445} (Axial)	Mo 202.030 {467} (Axial)	S 182.034 {485} (Axial)	Si 251.611 {134} (Axial)
Concentration average	0.000 ppm	0.000 ppm	0.019 ppm	-0.007 ppm
Concentration per Run 1	0.000 ppm	0.000 ppm	0.021 ppm	-0.005 ppm
Concentration per Run 2	0.000 ppm	0.000 ppm	0.015 ppm	-0.008 ppm
Concentration per Run 3	0.000 ppm	0.000 ppm	0.021 ppm	-0.008 ppm
Concentration RSD	467.7 %	48.3 %	17.1 %	24.4 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)	Cr 267.716 {126} (Axial)
Concentration average	-0.002 ppm	0.001 ppm	-0.001 ppm	0.001 ppm
Concentration per Run 1	-0.001 ppm	-0.002 ppm	-0.001 ppm	0.002 ppm
Concentration per Run 2	-0.003 ppm	0.003 ppm	-0.001 ppm	0.000 ppm
Concentration per Run 3	-0.002 ppm	0.000 ppm	-0.001 ppm	0.000 ppm
Concentration RSD	66.4 %	376.9 %	28.8 %	154.1 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Mn 257.610 {131} (Axial)	Y 360.073 {94} (Radial)	Y 224.306 {450} (Axial)	In 230.606 {446} (Axial)
Concentration average	0.000 ppm	101.113 %	101.812 %	101.083 %
Concentration per Run 1	0.000 ppm	101.412 %	101.730 %	100.978 %
Concentration per Run 2	0.000 ppm	100.695 %	101.908 %	101.157 %
Concentration per Run 3	0.000 ppm	101.232 %	101.797 %	101.114 %
Concentration RSD	30.0 %	0.4 %	0.1 %	0.1 %
Concentration SD	0.0 ppm	0.4 %	0.1 %	0.1 %

	Y 360.073 {94} (Axial)	Na 818.326 {41} (Radial)	Zn 206.200 {463} (Axial)	Cd 228.802 {447} (Axial)
Concentration average	101.705 %	-0.059 ppm	0.000 ppm	0.000 ppm
Concentration per Run 1	101.111 %	-0.011 ppm	0.000 ppm	0.000 ppm
Concentration per Run 2	102.308 %	-0.128 ppm	0.000 ppm	0.000 ppm
Concentration per Run 3	101.698 %	-0.037 ppm	0.000 ppm	0.000 ppm
Concentration RSD	0.6 %	104.2 %	30.2 %	102.6 %
Concentration SD	0.6 %	0.1 ppm	0.0 ppm	0.0 ppm

	Cu 324.754 {104} (Radial)
Concentration average	0.001 ppm
Concentration per Run 1	0.000 ppm
Concentration per Run 2	0.002 ppm
Concentration per Run 3	0.003 ppm
Concentration RSD	111.6 %
Concentration SD	0.0 ppm

	Al 308.215 {109} (Radial)	B 249.678 {135} (Radial)	Be 313.042 {108} (Radial)	Ca 317.933 {106} (Radial)
Intensity average	4 cps	2 cps	0 cps	44 cps

	Ca 373.690 {90} (Radial)	Fe 259.940 {130} (Radial)	Fe 271.441 {124} (Radial)	K 766.490 {44} (Radial)
Intensity average	14 cps	1 cps	1 cps	41 cps

	Li 670.784 {50} (Radial)	Mg 279.079 {121} (Radial)	Na 589.592 {57} (Radial)	Sr 421.552 {80} (Radial)
Intensity average	-4 cps	-1 cps	142 cps	6 cps

	Ti 334.941 {101} (Radial)	V 292.402 {115} (Radial)	Co 228.616 {447} (Axial)	Ni 231.604 {446} (Axial)
Intensity average	0 cps	0 cps	-1 cps	1 cps

	Pb 220.353 {453} (Axial)	Sn 189.989 {478} (Axial)	Tl 190.856 {477} (Axial)	As 189.042 {478} (Axial)
Intensity average	-1 cps	1 cps	-3 cps	-4 cps

	Ba 233.527 {445} (Axial)	Mo 202.030 {467} (Axial)	S 182.034 {485} (Axial)	Si 251.611 {134} (Axial)
Intensity average	2 cps	3 cps	7 cps	19 cps

	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)	Cr 267.716 {126} (Axial)
Intensity average	1 cps	-2 cps	1 cps	5 cps

	Mn 257.610 {131} (Axial)	Y 360.073 {94} (Radial)	Y 224.306 {450} (Axial)	In 230.606 {446} (Axial)
Intensity average	10 cps	4,987 cps	8,165 cps	2,903 cps

	Y 360.073 {94} (Axial)	Na 818.326 {41} (Radial)	Zn 206.200 {463} (Axial)	Cd 228.802 {447} (Axial)
Intensity average	134,484 cps	-165 cps	0 cps	5 cps

	Cu 324.754 {104} (Radial)
Intensity average	7 cps

Comprehensive sample report
11/28/2014 10:10:14 PM

L734231-20 WG756747

Sample Type UNKNOWN Analysis Date 11/28/2014 4:19:12 PM

Dilution Factor 5

	Al 308.215 {109} (Radial)	B 249.678 {135} (Radial)	Be 313.042 {108} (Radial)
Concentration average	21.258 ppm	2.583 ppm	0.001 ppm
Concentration per Run 1	21.231 ppm	2.532 ppm	0.001 ppm
Concentration per Run 2	21.290 ppm	2.567 ppm	0.001 ppm
Concentration per Run 3	21.252 ppm	2.650 ppm	0.002 ppm
Concentration RSD	0.1 %	2.3 %	28.7 %
Concentration SD	0.0 ppm	0.1 ppm	0.0 ppm

	Ca 317.933 {106} (Radial)	Ca 373.690 {90} (Radial)	Fe 259.940 {130} (Radial)
Concentration average	4,375.063 ppm	4,929.187 ppm	30.676 ppm
Concentration per Run 1	4,357.839 ppm	4,880.444 ppm	30.491 ppm
Concentration per Run 2	4,441.474 ppm	4,996.748 ppm	30.939 ppm
Concentration per Run 3	4,325.876 ppm	4,910.368 ppm	30.597 ppm
Concentration RSD	1.4 %	1.2 %	0.8 %
Concentration SD	59.7 ppm	60.4 ppm	0.2 ppm

	Fe 271.441 {124} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	34.363 ppm	228.467 ppm	0.972 ppm
Concentration per Run 1	34.036 ppm	226.664 ppm	0.956 ppm
Concentration per Run 2	34.811 ppm	228.418 ppm	0.964 ppm
Concentration per Run 3	34.240 ppm	230.318 ppm	0.995 ppm
Concentration RSD	1.2 %	0.8 %	2.1 %
Concentration SD	0.4 ppm	1.8 ppm	0.0 ppm

	Mg 279.079 {121} (Radial)	Na 589.592 {57} (Radial)	Sr 421.552 {80} (Radial)
Concentration average	1,409.047 ppm	3,618.874 ppm	78.289 ppm
Concentration per Run 1	1,399.764 ppm	3,608.725 ppm	78.838 ppm
Concentration per Run 2	1,431.719 ppm	3,621.895 ppm	79.142 ppm
Concentration per Run 3	1,395.659 ppm	3,626.003 ppm	76.888 ppm
Concentration RSD	1.4 %	0.2 %	1.6 %
Concentration SD	19.7 ppm	9.0 ppm	1.2 ppm

	Ti 334.941 {101} (Radial)	V 292.402 {115} (Radial)	Co 228.616 {447} (Axial)
Concentration average	0.554 ppm	0.115 ppm	0.043 ppm
Concentration per Run 1	0.535 ppm	0.108 ppm	0.045 ppm
Concentration per Run 2	0.562 ppm	0.123 ppm	0.045 ppm
Concentration per Run 3	0.564 ppm	0.112 ppm	0.040 ppm
Concentration RSD	2.9 %	6.7 %	6.5 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm

	Ni 231.604 {446} (Axial)	Pb 220.353 {453} (Axial)	Sn 189.989 {478} (Axial)
Concentration average	0.014 ppm	0.035 ppm	-0.014 ppm
Concentration per Run 1	0.017 ppm	0.029 ppm	-0.015 ppm

	Ni 231.604 {446} (Axial)	Pb 220.353 {453} (Axial)	Sn 189.989 {478} (Axial)
Concentration per Run 2	0.012 ppm	0.036 ppm	-0.019 ppm
Concentration per Run 3	0.015 ppm	0.042 ppm	-0.007 ppm
Concentration RSD	18.0 %	17.8 %	43.4 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm

	Tl 190.856 {477} (Axial)	As 189.042 {478} (Axial)	Ba 233.527 {445} (Axial)
Concentration average	-0.009 ppm	-0.009 ppm	1.060 ppm
Concentration per Run 1	-0.006 ppm	0.005 ppm	1.058 ppm
Concentration per Run 2	-0.007 ppm	-0.035 ppm	1.061 ppm
Concentration per Run 3	-0.013 ppm	0.003 ppm	1.061 ppm
Concentration RSD	42.8 %	243.0 %	0.2 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm

	Mo 202.030 {467} (Axial)	S 182.034 {485} (Axial)	Si 251.611 {134} (Axial)
Concentration average	0.386 ppm	4,231.350 ppm	77.119 ppm
Concentration per Run 1	0.386 ppm	4,224.625 ppm	77.235 ppm
Concentration per Run 2	0.389 ppm	4,231.926 ppm	76.850 ppm
Concentration per Run 3	0.385 ppm	4,237.500 ppm	77.271 ppm
Concentration RSD	0.6 %	0.2 %	0.3 %
Concentration SD	0.0 ppm	6.5 ppm	0.2 ppm

	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)
Concentration average	-0.011 ppm	0.010 ppm	-0.009 ppm
Concentration per Run 1	-0.001 ppm	0.005 ppm	-0.007 ppm
Concentration per Run 2	-0.007 ppm	0.016 ppm	-0.012 ppm
Concentration per Run 3	-0.026 ppm	0.008 ppm	-0.010 ppm
Concentration RSD	117.1 %	58.7 %	27.7 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm

	Cr 267.716 {126} (Axial)	Mn 257.610 {131} (Axial)	Y 360.073 {94} (Radial)
Concentration average	0.035 ppm	1.934 ppm	92.487 %
Concentration per Run 1	0.034 ppm	1.940 ppm	92.849 %
Concentration per Run 2	0.035 ppm	1.925 ppm	91.185 %
Concentration per Run 3	0.036 ppm	1.937 ppm	93.426 %
Concentration RSD	4.2 %	0.4 %	1.3 %
Concentration SD	0.0 ppm	0.0 ppm	1.2 %

	Y 224.306 {450} (Axial)	In 230.606 {446} (Axial)	Y 360.073 {94} (Axial)
Concentration average	79.309 %	67.214 %	81.812 %
Concentration per Run 1	79.864 %	67.314 %	81.749 %
Concentration per Run 2	78.708 %	67.089 %	82.294 %
Concentration per Run 3	79.356 %	67.241 %	81.393 %
Concentration RSD	0.7 %	0.2 %	0.6 %
Concentration SD	0.6 %	0.1 %	0.5 %

	Na 818.326 {41} (Radial)	Zn 206.200 {463} (Axial)	Cd 228.802 {447} (Axial)
Concentration average	4,400.280 ppm	0.109 ppm	0.003 ppm

	Na 818.326 {41} (Radial)	Zn 206.200 {463} (Axial)	Cd 228.802 {447} (Axial)
Concentration per Run 1	4,366.459 ppm	0.107 ppm	0.003 ppm
Concentration per Run 2	4,398.117 ppm	0.109 ppm	0.003 ppm
Concentration per Run 3	4,436.263 ppm	0.111 ppm	0.002 ppm
Concentration RSD	0.8 %	1.5 %	20.8 %
Concentration SD	35.0 ppm	0.0 ppm	0.0 ppm

	Cu 324.754 {104} (Radial)
Concentration average	0.032 ppm
Concentration per Run 1	0.056 ppm
Concentration per Run 2	0.009 ppm
Concentration per Run 3	0.032 ppm
Concentration RSD	71.7 %
Concentration SD	0.0 ppm

	Al 308.215 {109} (Radial)	B 249.678 {135} (Radial)	Be 313.042 {108} (Radial)	Ca 317.933 {106} (Radial)
Intensity average	170 cps	88 cps	3 cps	317,664 cps

	Ca 373.690 {90} (Radial)	Fe 259.940 {130} (Radial)	Fe 271.441 {124} (Radial)	K 766.490 {44} (Radial)
Intensity average	140,264 cps	1,442 cps	96 cps	22,130 cps

	Li 670.784 {50} (Radial)	Mg 279.079 {121} (Radial)	Na 589.592 {57} (Radial)	Sr 421.552 {80} (Radial)
Intensity average	2,361 cps	9,549 cps	1,162,344 cps	420,056 cps

	Ti 334.941 {101} (Radial)	V 292.402 {115} (Radial)	Co 228.616 {447} (Axial)	Ni 231.604 {446} (Axial)
Intensity average	195 cps	8 cps	13 cps	4 cps

	Pb 220.353 {453} (Axial)	Sn 189.989 {478} (Axial)	Tl 190.856 {477} (Axial)	As 189.042 {478} (Axial)
Intensity average	2 cps	0 cps	-3 cps	-3 cps

	Ba 233.527 {445} (Axial)	Mo 202.030 {467} (Axial)	S 182.034 {485} (Axial)	Si 251.611 {134} (Axial)
Intensity average	828 cps	168 cps	118,444 cps	23,437 cps

	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)	Cr 267.716 {126} (Axial)
Intensity average	1 cps	-1 cps	-4 cps	28 cps

	Mn 257.610 {131} (Axial)	Y 360.073 {94} (Radial)	Y 224.306 {450} (Axial)	In 230.606 {446} (Axial)
Intensity average	11,140 cps	4,562 cps	6,360 cps	1,931 cps

	Y 360.073 {94} (Axial)	Na 818.326 {41} (Radial)	Zn 206.200 {463} (Axial)	Cd 228.802 {447} (Axial)
Intensity average	108,179 cps	66,949 cps	42 cps	5 cps

	Cu 324.754 {104} (Radial)
Intensity average	10 cps

Comprehensive sample report

11/28/2014 10:10:14 PM

L734231-24 WG756747

Sample Type UNKNOWN Analysis Date 11/28/2014 4:23:45 PM

Dilution Factor 5

	Al 308.215 {109} (Radial)	B 249.678 {135} (Radial)	Be 313.042 {108} (Radial)
Concentration average	4.406 ppm	0.880 ppm	0.000 ppm
Concentration per Run 1	4.487 ppm	0.901 ppm	0.000 ppm
Concentration per Run 2	4.411 ppm	0.924 ppm	-0.001 ppm
Concentration per Run 3	4.318 ppm	0.815 ppm	-0.001 ppm
Concentration RSD	1.9 %	6.6 %	188.7 %
Concentration SD	0.1 ppm	0.1 ppm	0.0 ppm

	Ca 317.933 {106} (Radial)	Ca 373.690 {90} (Radial)	Fe 259.940 {130} (Radial)
Concentration average	1,306.203 ppm	1,402.573 ppm	5.265 ppm
Concentration per Run 1	1,307.799 ppm	1,403.674 ppm	5.280 ppm
Concentration per Run 2	1,296.059 ppm	1,393.573 ppm	5.227 ppm
Concentration per Run 3	1,314.751 ppm	1,410.472 ppm	5.289 ppm
Concentration RSD	0.7 %	0.6 %	0.6 %
Concentration SD	9.4 ppm	8.5 ppm	0.0 ppm

	Fe 271.441 {124} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	6.061 ppm	73.216 ppm	0.253 ppm
Concentration per Run 1	5.492 ppm	73.837 ppm	0.256 ppm
Concentration per Run 2	6.514 ppm	72.509 ppm	0.249 ppm
Concentration per Run 3	6.178 ppm	73.303 ppm	0.254 ppm
Concentration RSD	8.6 %	0.9 %	1.3 %
Concentration SD	0.5 ppm	0.7 ppm	0.0 ppm

	Mg 279.079 {121} (Radial)	Na 589.592 {57} (Radial)	Sr 421.552 {80} (Radial)
Concentration average	283.472 ppm	698.645 ppm	24.184 ppm
Concentration per Run 1	283.588 ppm	707.329 ppm	24.378 ppm
Concentration per Run 2	280.635 ppm	692.616 ppm	24.022 ppm
Concentration per Run 3	286.193 ppm	695.990 ppm	24.151 ppm
Concentration RSD	1.0 %	1.1 %	0.7 %
Concentration SD	2.8 ppm	7.7 ppm	0.2 ppm

	Ti 334.941 {101} (Radial)	V 292.402 {115} (Radial)	Co 228.616 {447} (Axial)
Concentration average	0.198 ppm	0.032 ppm	0.012 ppm
Concentration per Run 1	0.188 ppm	0.046 ppm	0.010 ppm
Concentration per Run 2	0.208 ppm	0.026 ppm	0.013 ppm
Concentration per Run 3	0.197 ppm	0.023 ppm	0.012 ppm
Concentration RSD	5.0 %	39.8 %	13.4 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm

	Ni 231.604 {446} (Axial)	Pb 220.353 {453} (Axial)	Sn 189.989 {478} (Axial)
Concentration average	0.003 ppm	0.016 ppm	-0.010 ppm
Concentration per Run 1	0.005 ppm	0.011 ppm	-0.007 ppm

	Ni 231.604 {446} (Axial)	Pb 220.353 {453} (Axial)	Sn 189.989 {478} (Axial)
Concentration per Run 2	0.003 ppm	0.019 ppm	-0.013 ppm
Concentration per Run 3	0.001 ppm	0.018 ppm	-0.011 ppm
Concentration RSD	63.5 %	29.9 %	26.6 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm

	Tl 190.856 {477} (Axial)	As 189.042 {478} (Axial)	Ba 233.527 {445} (Axial)
Concentration average	0.007 ppm	-0.016 ppm	0.354 ppm
Concentration per Run 1	0.008 ppm	-0.016 ppm	0.353 ppm
Concentration per Run 2	0.011 ppm	-0.012 ppm	0.356 ppm
Concentration per Run 3	0.002 ppm	-0.021 ppm	0.354 ppm
Concentration RSD	62.7 %	28.3 %	0.5 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm

	Mo 202.030 {467} (Axial)	S 182.034 {485} (Axial)	Si 251.611 {134} (Axial)
Concentration average	0.311 ppm	1,290.507 ppm	49.364 ppm
Concentration per Run 1	0.311 ppm	1,290.338 ppm	49.342 ppm
Concentration per Run 2	0.312 ppm	1,290.187 ppm	49.256 ppm
Concentration per Run 3	0.311 ppm	1,290.996 ppm	49.493 ppm
Concentration RSD	0.2 %	0.0 %	0.2 %
Concentration SD	0.0 ppm	0.4 ppm	0.1 ppm

	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)
Concentration average	-0.015 ppm	0.023 ppm	-0.006 ppm
Concentration per Run 1	-0.021 ppm	0.030 ppm	-0.006 ppm
Concentration per Run 2	-0.013 ppm	0.017 ppm	-0.008 ppm
Concentration per Run 3	-0.010 ppm	0.023 ppm	-0.004 ppm
Concentration RSD	39.5 %	27.8 %	36.0 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm

	Cr 267.716 {126} (Axial)	Mn 257.610 {131} (Axial)	Y 360.073 {94} (Radial)
Concentration average	0.010 ppm	0.337 ppm	95.754 %
Concentration per Run 1	0.009 ppm	0.336 ppm	95.649 %
Concentration per Run 2	0.010 ppm	0.336 ppm	96.625 %
Concentration per Run 3	0.010 ppm	0.339 ppm	94.988 %
Concentration RSD	4.9 %	0.6 %	0.9 %
Concentration SD	0.0 ppm	0.0 ppm	0.8 %

	Y 224.306 {450} (Axial)	In 230.606 {446} (Axial)	Y 360.073 {94} (Axial)
Concentration average	90.600 %	82.067 %	91.507 %
Concentration per Run 1	90.193 %	81.651 %	91.312 %
Concentration per Run 2	90.659 %	82.102 %	91.562 %
Concentration per Run 3	90.949 %	82.448 %	91.646 %
Concentration RSD	0.4 %	0.5 %	0.2 %
Concentration SD	0.4 %	0.4 %	0.2 %

	Na 818.326 {41} (Radial)	Zn 206.200 {463} (Axial)	Cd 228.802 {447} (Axial)
Concentration average	747.065 ppm	0.028 ppm	0.001 ppm

	Na 818.326 {41} (Radial)	Zn 206.200 {463} (Axial)	Cd 228.802 {447} (Axial)
Concentration per Run 1	754.070 ppm	0.026 ppm	0.001 ppm
Concentration per Run 2	742.116 ppm	0.029 ppm	0.001 ppm
Concentration per Run 3	745.009 ppm	0.028 ppm	0.002 ppm
Concentration RSD	0.8 %	5.4 %	43.6 %
Concentration SD	6.2 ppm	0.0 ppm	0.0 ppm

	Cu 324.754 {104} (Radial)
Concentration average	0.009 ppm
Concentration per Run 1	0.003 ppm
Concentration per Run 2	0.021 ppm
Concentration per Run 3	0.002 ppm
Concentration RSD	127.7 %
Concentration SD	0.0 ppm

	Al 308.215 {109} (Radial)	B 249.678 {135} (Radial)	Be 313.042 {108} (Radial)	Ca 317.933 {106} (Radial)
Intensity average	40 cps	31 cps	-1 cps	98,225 cps

	Ca 373.690 {90} (Radial)	Fe 259.940 {130} (Radial)	Fe 271.441 {124} (Radial)	K 766.490 {44} (Radial)
Intensity average	41,331 cps	257 cps	18 cps	7,356 cps

	Li 670.784 {50} (Radial)	Mg 279.079 {121} (Radial)	Na 589.592 {57} (Radial)	Sr 421.552 {80} (Radial)
Intensity average	636 cps	1,989 cps	232,360 cps	134,351 cps

	Ti 334.941 {101} (Radial)	V 292.402 {115} (Radial)	Co 228.616 {447} (Axial)	Ni 231.604 {446} (Axial)
Intensity average	73 cps	2 cps	3 cps	2 cps

	Pb 220.353 {453} (Axial)	Sn 189.989 {478} (Axial)	Tl 190.856 {477} (Axial)	As 189.042 {478} (Axial)
Intensity average	1 cps	0 cps	-3 cps	-4 cps

	Ba 233.527 {445} (Axial)	Mo 202.030 {467} (Axial)	S 182.034 {485} (Axial)	Si 251.611 {134} (Axial)
Intensity average	317 cps	155 cps	41,269 cps	16,791 cps

	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)	Cr 267.716 {126} (Axial)
Intensity average	0 cps	-1 cps	-1 cps	10 cps

	Mn 257.610 {131} (Axial)	Y 360.073 {94} (Radial)	Y 224.306 {450} (Axial)	In 230.606 {446} (Axial)
Intensity average	2,175 cps	4,723 cps	7,266 cps	2,357 cps

	Y 360.073 {94} (Axial)	Na 818.326 {41} (Radial)	Zn 206.200 {463} (Axial)	Cd 228.802 {447} (Axial)
Intensity average	120,999 cps	11,642 cps	12 cps	5 cps

	Cu 324.754 {104} (Radial)
Intensity average	7 cps

Comprehensive sample report

11/28/2014 10:10:14 PM

L734810-03 WG756747

Sample Type UNKNOWN Analysis Date 11/28/2014 4:28:19 PM

Dilution Factor 5

	Al 308.215 {109} (Radial)	B 249.678 {135} (Radial)	Be 313.042 {108} (Radial)
Concentration average	6.598 ppm	0.224 ppm	0.000 ppm
Concentration per Run 1	6.090 ppm	0.194 ppm	0.000 ppm
Concentration per Run 2	7.197 ppm	0.265 ppm	0.000 ppm
Concentration per Run 3	6.506 ppm	0.215 ppm	0.000 ppm
Concentration RSD	8.5 %	16.3 %	1,238.5 %
Concentration SD	0.6 ppm	0.0 ppm	0.0 ppm

	Ca 317.933 {106} (Radial)	Ca 373.690 {90} (Radial)	Fe 259.940 {130} (Radial)
Concentration average	1,117.615 ppm	1,195.273 ppm	7.077 ppm
Concentration per Run 1	1,097.924 ppm	1,170.996 ppm	6.919 ppm
Concentration per Run 2	1,155.253 ppm	1,237.931 ppm	7.358 ppm
Concentration per Run 3	1,099.669 ppm	1,176.892 ppm	6.955 ppm
Concentration RSD	2.9 %	3.1 %	3.4 %
Concentration SD	32.6 ppm	37.1 ppm	0.2 ppm

	Fe 271.441 {124} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	7.549 ppm	11.447 ppm	0.158 ppm
Concentration per Run 1	7.469 ppm	10.983 ppm	0.154 ppm
Concentration per Run 2	7.755 ppm	12.011 ppm	0.162 ppm
Concentration per Run 3	7.421 ppm	11.346 ppm	0.159 ppm
Concentration RSD	2.4 %	4.6 %	2.5 %
Concentration SD	0.2 ppm	0.5 ppm	0.0 ppm

	Mg 279.079 {121} (Radial)	Na 589.592 {57} (Radial)	Sr 421.552 {80} (Radial)
Concentration average	376.683 ppm	1,328.221 ppm	19.720 ppm
Concentration per Run 1	370.191 ppm	1,269.127 ppm	18.993 ppm
Concentration per Run 2	387.758 ppm	1,412.282 ppm	20.674 ppm
Concentration per Run 3	372.100 ppm	1,303.254 ppm	19.494 ppm
Concentration RSD	2.6 %	5.6 %	4.4 %
Concentration SD	9.6 ppm	74.8 ppm	0.9 ppm

	Ti 334.941 {101} (Radial)	V 292.402 {115} (Radial)	Co 228.616 {447} (Axial)
Concentration average	0.169 ppm	0.058 ppm	0.018 ppm
Concentration per Run 1	0.177 ppm	0.067 ppm	0.016 ppm
Concentration per Run 2	0.163 ppm	0.055 ppm	0.018 ppm
Concentration per Run 3	0.167 ppm	0.051 ppm	0.019 ppm
Concentration RSD	4.4 %	14.1 %	7.5 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm

	Ni 231.604 {446} (Axial)	Pb 220.353 {453} (Axial)	Sn 189.989 {478} (Axial)
Concentration average	0.011 ppm	0.017 ppm	-0.011 ppm
Concentration per Run 1	0.011 ppm	0.014 ppm	-0.007 ppm

	Ni 231.604 {446} (Axial)	Pb 220.353 {453} (Axial)	Sn 189.989 {478} (Axial)
Concentration per Run 2	0.010 ppm	0.020 ppm	-0.009 ppm
Concentration per Run 3	0.011 ppm	0.016 ppm	-0.019 ppm
Concentration RSD	4.1 %	17.2 %	56.7 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm

	Tl 190.856 {477} (Axial)	As 189.042 {478} (Axial)	Ba 233.527 {445} (Axial)
Concentration average	0.008 ppm	-0.019 ppm	0.248 ppm
Concentration per Run 1	0.000 ppm	-0.025 ppm	0.248 ppm
Concentration per Run 2	0.006 ppm	-0.013 ppm	0.248 ppm
Concentration per Run 3	0.018 ppm	-0.020 ppm	0.247 ppm
Concentration RSD	116.6 %	31.6 %	0.3 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm

	Mo 202.030 {467} (Axial)	S 182.034 {485} (Axial)	Si 251.611 {134} (Axial)
Concentration average	0.019 ppm	827.170 ppm	28.008 ppm
Concentration per Run 1	0.019 ppm	824.540 ppm	27.932 ppm
Concentration per Run 2	0.020 ppm	826.287 ppm	28.069 ppm
Concentration per Run 3	0.019 ppm	830.683 ppm	28.021 ppm
Concentration RSD	2.2 %	0.4 %	0.2 %
Concentration SD	0.0 ppm	3.2 ppm	0.1 ppm

	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)
Concentration average	0.045 ppm	0.013 ppm	-0.008 ppm
Concentration per Run 1	-0.012 ppm	0.027 ppm	-0.007 ppm
Concentration per Run 2	0.161 ppm	0.006 ppm	-0.009 ppm
Concentration per Run 3	-0.016 ppm	0.006 ppm	-0.006 ppm
Concentration RSD	226.9 %	92.4 %	20.5 %
Concentration SD	0.1 ppm	0.0 ppm	0.0 ppm

	Cr 267.716 {126} (Axial)	Mn 257.610 {131} (Axial)	Y 360.073 {94} (Radial)
Concentration average	0.013 ppm	0.583 ppm	94.092 %
Concentration per Run 1	0.012 ppm	0.582 ppm	95.114 %
Concentration per Run 2	0.013 ppm	0.582 ppm	91.748 %
Concentration per Run 3	0.015 ppm	0.586 ppm	95.416 %
Concentration RSD	11.2 %	0.3 %	2.2 %
Concentration SD	0.0 ppm	0.0 ppm	2.0 %

	Y 224.306 {450} (Axial)	In 230.606 {446} (Axial)	Y 360.073 {94} (Axial)
Concentration average	89.464 %	79.889 %	90.176 %
Concentration per Run 1	89.267 %	79.804 %	90.180 %
Concentration per Run 2	90.007 %	80.261 %	90.020 %
Concentration per Run 3	89.118 %	79.601 %	90.329 %
Concentration RSD	0.5 %	0.4 %	0.2 %
Concentration SD	0.5 %	0.3 %	0.2 %

	Na 818.326 {41} (Radial)	Zn 206.200 {463} (Axial)	Cd 228.802 {447} (Axial)
Concentration average	1,414.197 ppm	0.061 ppm	0.001 ppm

	Na 818.326 {41} (Radial)	Zn 206.200 {463} (Axial)	Cd 228.802 {447} (Axial)
Concentration per Run 1	1,367.802 ppm	0.063 ppm	0.000 ppm
Concentration per Run 2	1,477.203 ppm	0.060 ppm	0.001 ppm
Concentration per Run 3	1,397.584 ppm	0.060 ppm	0.000 ppm
Concentration RSD	4.0 %	3.1 %	153.5 %
Concentration SD	56.6 ppm	0.0 ppm	0.0 ppm

	Cu 324.754 {104} (Radial)
Concentration average	0.004 ppm
Concentration per Run 1	0.007 ppm
Concentration per Run 2	0.006 ppm
Concentration per Run 3	0.000 ppm
Concentration RSD	94.9 %
Concentration SD	0.0 ppm

	Al 308.215 {109} (Radial)	B 249.678 {135} (Radial)	Be 313.042 {108} (Radial)	Ca 317.933 {106} (Radial)
Intensity average	57 cps	8 cps	0 cps	82,559 cps

	Ca 373.690 {90} (Radial)	Fe 259.940 {130} (Radial)	Fe 271.441 {124} (Radial)	K 766.490 {44} (Radial)
Intensity average	34,598 cps	339 cps	22 cps	1,146 cps

	Li 670.784 {50} (Radial)	Mg 279.079 {121} (Radial)	Na 589.592 {57} (Radial)	Sr 421.552 {80} (Radial)
Intensity average	391 cps	2,596 cps	433,712 cps	107,590 cps

	Ti 334.941 {101} (Radial)	V 292.402 {115} (Radial)	Co 228.616 {447} (Axial)	Ni 231.604 {446} (Axial)
Intensity average	61 cps	4 cps	5 cps	4 cps

	Pb 220.353 {453} (Axial)	Sn 189.989 {478} (Axial)	Tl 190.856 {477} (Axial)	As 189.042 {478} (Axial)
Intensity average	1 cps	0 cps	-2 cps	-4 cps

	Ba 233.527 {445} (Axial)	Mo 202.030 {467} (Axial)	S 182.034 {485} (Axial)	Si 251.611 {134} (Axial)
Intensity average	220 cps	11 cps	26,121 cps	9,401 cps

	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)	Cr 267.716 {126} (Axial)
Intensity average	5 cps	-1 cps	-2 cps	13 cps

	Mn 257.610 {131} (Axial)	Y 360.073 {94} (Radial)	Y 224.306 {450} (Axial)	In 230.606 {446} (Axial)
Intensity average	3,706 cps	4,641 cps	7,174 cps	2,295 cps

	Y 360.073 {94} (Axial)	Na 818.326 {41} (Radial)	Zn 206.200 {463} (Axial)	Cd 228.802 {447} (Axial)
Intensity average	119,240 cps	21,777 cps	26 cps	4 cps

	Cu 324.754 {104} (Radial)
Intensity average	6 cps

Comprehensive sample report

11/28/2014 10:10:14 PM

L734810-05 WG756747

Sample Type UNKNOWN Analysis Date 11/28/2014 4:32:52 PM

Dilution Factor 5

	Al 308.215 {109} (Radial)	B 249.678 {135} (Radial)	Be 313.042 {108} (Radial)
Concentration average	10.707 ppm	0.222 ppm	0.001 ppm
Concentration per Run 1	10.512 ppm	0.211 ppm	0.002 ppm
Concentration per Run 2	10.765 ppm	0.224 ppm	0.001 ppm
Concentration per Run 3	10.844 ppm	0.232 ppm	0.001 ppm
Concentration RSD	1.6 %	4.7 %	16.3 %
Concentration SD	0.2 ppm	0.0 ppm	0.0 ppm

	Ca 317.933 {106} (Radial)	Ca 373.690 {90} (Radial)	Fe 259.940 {130} (Radial)
Concentration average	1,172.117 ppm	1,256.045 ppm	14.887 ppm
Concentration per Run 1	1,179.393 ppm	1,265.367 ppm	14.919 ppm
Concentration per Run 2	1,165.882 ppm	1,253.045 ppm	14.784 ppm
Concentration per Run 3	1,171.077 ppm	1,249.724 ppm	14.956 ppm
Concentration RSD	0.6 %	0.7 %	0.6 %
Concentration SD	6.8 ppm	8.2 ppm	0.1 ppm

	Fe 271.441 {124} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	16.641 ppm	9.643 ppm	0.161 ppm
Concentration per Run 1	17.098 ppm	9.599 ppm	0.162 ppm
Concentration per Run 2	16.201 ppm	9.638 ppm	0.158 ppm
Concentration per Run 3	16.625 ppm	9.692 ppm	0.162 ppm
Concentration RSD	2.7 %	0.5 %	1.6 %
Concentration SD	0.4 ppm	0.0 ppm	0.0 ppm

	Mg 279.079 {121} (Radial)	Na 589.592 {57} (Radial)	Sr 421.552 {80} (Radial)
Concentration average	445.041 ppm	1,430.613 ppm	18.181 ppm
Concentration per Run 1	447.919 ppm	1,449.081 ppm	18.249 ppm
Concentration per Run 2	444.150 ppm	1,427.941 ppm	18.033 ppm
Concentration per Run 3	443.053 ppm	1,414.818 ppm	18.261 ppm
Concentration RSD	0.6 %	1.2 %	0.7 %
Concentration SD	2.6 ppm	17.3 ppm	0.1 ppm

	Ti 334.941 {101} (Radial)	V 292.402 {115} (Radial)	Co 228.616 {447} (Axial)
Concentration average	0.231 ppm	0.068 ppm	0.021 ppm
Concentration per Run 1	0.239 ppm	0.085 ppm	0.019 ppm
Concentration per Run 2	0.225 ppm	0.056 ppm	0.021 ppm
Concentration per Run 3	0.229 ppm	0.063 ppm	0.024 ppm
Concentration RSD	3.2 %	22.4 %	12.2 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm

	Ni 231.604 {446} (Axial)	Pb 220.353 {453} (Axial)	Sn 189.989 {478} (Axial)
Concentration average	0.020 ppm	0.019 ppm	-0.011 ppm
Concentration per Run 1	0.021 ppm	0.006 ppm	-0.012 ppm

	Ni 231.604 {446} (Axial)	Pb 220.353 {453} (Axial)	Sn 189.989 {478} (Axial)
Concentration per Run 2	0.018 ppm	0.019 ppm	-0.011 ppm
Concentration per Run 3	0.022 ppm	0.030 ppm	-0.011 ppm
Concentration RSD	10.7 %	64.7 %	2.1 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm

	Tl 190.856 {477} (Axial)	As 189.042 {478} (Axial)	Ba 233.527 {445} (Axial)
Concentration average	0.006 ppm	-0.010 ppm	0.350 ppm
Concentration per Run 1	0.008 ppm	-0.008 ppm	0.349 ppm
Concentration per Run 2	0.004 ppm	-0.010 ppm	0.350 ppm
Concentration per Run 3	0.007 ppm	-0.012 ppm	0.350 ppm
Concentration RSD	34.5 %	20.5 %	0.1 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm

	Mo 202.030 {467} (Axial)	S 182.034 {485} (Axial)	Si 251.611 {134} (Axial)
Concentration average	0.012 ppm	874.910 ppm	36.925 ppm
Concentration per Run 1	0.012 ppm	873.585 ppm	36.906 ppm
Concentration per Run 2	0.011 ppm	875.588 ppm	36.977 ppm
Concentration per Run 3	0.012 ppm	875.558 ppm	36.893 ppm
Concentration RSD	4.7 %	0.1 %	0.1 %
Concentration SD	0.0 ppm	1.1 ppm	0.0 ppm

	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)
Concentration average	-0.015 ppm	0.015 ppm	-0.006 ppm
Concentration per Run 1	-0.006 ppm	0.024 ppm	-0.006 ppm
Concentration per Run 2	-0.019 ppm	0.011 ppm	-0.004 ppm
Concentration per Run 3	-0.021 ppm	0.010 ppm	-0.007 ppm
Concentration RSD	52.4 %	54.0 %	28.2 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm

	Cr 267.716 {126} (Axial)	Mn 257.610 {131} (Axial)	Y 360.073 {94} (Radial)
Concentration average	0.031 ppm	0.592 ppm	96.049 %
Concentration per Run 1	0.030 ppm	0.590 ppm	95.190 %
Concentration per Run 2	0.032 ppm	0.594 ppm	96.496 %
Concentration per Run 3	0.030 ppm	0.592 ppm	96.459 %
Concentration RSD	3.1 %	0.3 %	0.8 %
Concentration SD	0.0 ppm	0.0 ppm	0.7 %

	Y 224.306 {450} (Axial)	In 230.606 {446} (Axial)	Y 360.073 {94} (Axial)
Concentration average	89.338 %	79.245 %	89.954 %
Concentration per Run 1	88.885 %	79.185 %	90.031 %
Concentration per Run 2	89.333 %	79.298 %	89.841 %
Concentration per Run 3	89.797 %	79.253 %	89.991 %
Concentration RSD	0.5 %	0.1 %	0.1 %
Concentration SD	0.5 %	0.1 %	0.1 %

	Na 818.326 {41} (Radial)	Zn 206.200 {463} (Axial)	Cd 228.802 {447} (Axial)
Concentration average	1,571.358 ppm	0.069 ppm	0.001 ppm

	Na 818.326 {41} (Radial)	Zn 206.200 {463} (Axial)	Cd 228.802 {447} (Axial)
Concentration per Run 1	1,577.187 ppm	0.070 ppm	0.001 ppm
Concentration per Run 2	1,559.075 ppm	0.069 ppm	0.002 ppm
Concentration per Run 3	1,577.813 ppm	0.069 ppm	0.000 ppm
Concentration RSD	0.7 %	1.2 %	74.6 %
Concentration SD	10.6 ppm	0.0 ppm	0.0 ppm

	Cu 324.754 {104} (Radial)
Concentration average	0.015 ppm
Concentration per Run 1	0.014 ppm
Concentration per Run 2	0.014 ppm
Concentration per Run 3	0.018 ppm
Concentration RSD	15.4 %
Concentration SD	0.0 ppm

	Al 308.215 {109} (Radial)	B 249.678 {135} (Radial)	Be 313.042 {108} (Radial)	Ca 317.933 {106} (Radial)
Intensity average	91 cps	8 cps	3 cps	88,418 cps

	Ca 373.690 {90} (Radial)	Fe 259.940 {130} (Radial)	Fe 271.441 {124} (Radial)	K 766.490 {44} (Radial)
Intensity average	37,128 cps	727 cps	48 cps	989 cps

	Li 670.784 {50} (Radial)	Mg 279.079 {121} (Radial)	Na 589.592 {57} (Radial)	Sr 421.552 {80} (Radial)
Intensity average	406 cps	3,132 cps	477,198 cps	101,313 cps

	Ti 334.941 {101} (Radial)	V 292.402 {115} (Radial)	Co 228.616 {447} (Axial)	Ni 231.604 {446} (Axial)
Intensity average	85 cps	5 cps	7 cps	6 cps

	Pb 220.353 {453} (Axial)	Sn 189.989 {478} (Axial)	Tl 190.856 {477} (Axial)	As 189.042 {478} (Axial)
Intensity average	1 cps	0 cps	-3 cps	-4 cps

	Ba 233.527 {445} (Axial)	Mo 202.030 {467} (Axial)	S 182.034 {485} (Axial)	Si 251.611 {134} (Axial)
Intensity average	309 cps	8 cps	27,590 cps	12,354 cps

	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)	Cr 267.716 {126} (Axial)
Intensity average	0 cps	-1 cps	0 cps	27 cps

	Mn 257.610 {131} (Axial)	Y 360.073 {94} (Radial)	Y 224.306 {450} (Axial)	In 230.606 {446} (Axial)
Intensity average	3,751 cps	4,737 cps	7,164 cps	2,276 cps

	Y 360.073 {94} (Axial)	Na 818.326 {41} (Radial)	Zn 206.200 {463} (Axial)	Cd 228.802 {447} (Axial)
Intensity average	118,946 cps	24,730 cps	30 cps	5 cps

	Cu 324.754 {104} (Radial)
Intensity average	8 cps

Comprehensive sample report
11/28/2014 10:10:14 PM

L734810-07 WG756747

Sample Type UNKNOWN Analysis Date 11/28/2014 4:37:24 PM

Dilution Factor 5

	Al 308.215 {109} (Radial)	B 249.678 {135} (Radial)	Be 313.042 {108} (Radial)
Concentration average	21.133 ppm	0.460 ppm	0.002 ppm
Concentration per Run 1	20.797 ppm	0.502 ppm	0.002 ppm
Concentration per Run 2	21.475 ppm	0.440 ppm	0.002 ppm
Concentration per Run 3	21.126 ppm	0.438 ppm	0.002 ppm
Concentration RSD	1.6 %	7.8 %	6.9 %
Concentration SD	0.3 ppm	0.0 ppm	0.0 ppm

	Ca 317.933 {106} (Radial)	Ca 373.690 {90} (Radial)	Fe 259.940 {130} (Radial)
Concentration average	1,402.984 ppm	1,504.184 ppm	33.438 ppm
Concentration per Run 1	1,396.403 ppm	1,493.692 ppm	33.344 ppm
Concentration per Run 2	1,410.912 ppm	1,512.943 ppm	33.459 ppm
Concentration per Run 3	1,401.637 ppm	1,505.916 ppm	33.511 ppm
Concentration RSD	0.5 %	0.6 %	0.3 %
Concentration SD	7.3 ppm	9.7 ppm	0.1 ppm

	Fe 271.441 {124} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	37.287 ppm	14.512 ppm	0.194 ppm
Concentration per Run 1	37.209 ppm	14.473 ppm	0.192 ppm
Concentration per Run 2	36.913 ppm	14.541 ppm	0.196 ppm
Concentration per Run 3	37.740 ppm	14.523 ppm	0.194 ppm
Concentration RSD	1.1 %	0.2 %	1.1 %
Concentration SD	0.4 ppm	0.0 ppm	0.0 ppm

	Mg 279.079 {121} (Radial)	Na 589.592 {57} (Radial)	Sr 421.552 {80} (Radial)
Concentration average	465.408 ppm	1,383.426 ppm	16.565 ppm
Concentration per Run 1	462.273 ppm	1,354.884 ppm	16.368 ppm
Concentration per Run 2	468.612 ppm	1,413.250 ppm	16.626 ppm
Concentration per Run 3	465.340 ppm	1,382.143 ppm	16.700 ppm
Concentration RSD	0.7 %	2.1 %	1.1 %
Concentration SD	3.2 ppm	29.2 ppm	0.2 ppm

	Ti 334.941 {101} (Radial)	V 292.402 {115} (Radial)	Co 228.616 {447} (Axial)
Concentration average	0.332 ppm	0.092 ppm	0.029 ppm
Concentration per Run 1	0.323 ppm	0.058 ppm	0.032 ppm
Concentration per Run 2	0.334 ppm	0.113 ppm	0.029 ppm
Concentration per Run 3	0.339 ppm	0.107 ppm	0.026 ppm
Concentration RSD	2.4 %	32.9 %	9.3 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm

	Ni 231.604 {446} (Axial)	Pb 220.353 {453} (Axial)	Sn 189.989 {478} (Axial)
Concentration average	0.036 ppm	0.036 ppm	-0.012 ppm
Concentration per Run 1	0.037 ppm	0.029 ppm	-0.012 ppm

	Ni 231.604 {446} (Axial)	Pb 220.353 {453} (Axial)	Sn 189.989 {478} (Axial)
Concentration per Run 2	0.037 ppm	0.035 ppm	-0.010 ppm
Concentration per Run 3	0.035 ppm	0.043 ppm	-0.014 ppm
Concentration RSD	3.6 %	20.6 %	16.8 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm

	Tl 190.856 {477} (Axial)	As 189.042 {478} (Axial)	Ba 233.527 {445} (Axial)
Concentration average	0.001 ppm	-0.001 ppm	0.880 ppm
Concentration per Run 1	-0.001 ppm	-0.003 ppm	0.902 ppm
Concentration per Run 2	0.000 ppm	-0.007 ppm	0.888 ppm
Concentration per Run 3	0.005 ppm	0.007 ppm	0.850 ppm
Concentration RSD	261.6 %	622.5 %	3.1 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm

	Mo 202.030 {467} (Axial)	S 182.034 {485} (Axial)	Si 251.611 {134} (Axial)
Concentration average	0.014 ppm	1,290.868 ppm	46.205 ppm
Concentration per Run 1	0.014 ppm	1,325.214 ppm	46.217 ppm
Concentration per Run 2	0.014 ppm	1,298.133 ppm	46.343 ppm
Concentration per Run 3	0.013 ppm	1,249.258 ppm	46.055 ppm
Concentration RSD	3.1 %	3.0 %	0.3 %
Concentration SD	0.0 ppm	38.5 ppm	0.1 ppm

	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)
Concentration average	-0.013 ppm	0.024 ppm	-0.005 ppm
Concentration per Run 1	-0.013 ppm	0.009 ppm	-0.005 ppm
Concentration per Run 2	-0.017 ppm	0.028 ppm	-0.005 ppm
Concentration per Run 3	-0.009 ppm	0.035 ppm	-0.005 ppm
Concentration RSD	30.9 %	57.4 %	3.2 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm

	Cr 267.716 {126} (Axial)	Mn 257.610 {131} (Axial)	Y 360.073 {94} (Radial)
Concentration average	0.058 ppm	0.959 ppm	96.210 %
Concentration per Run 1	0.057 ppm	0.956 ppm	96.923 %
Concentration per Run 2	0.062 ppm	0.961 ppm	95.293 %
Concentration per Run 3	0.056 ppm	0.961 ppm	96.413 %
Concentration RSD	5.2 %	0.3 %	0.9 %
Concentration SD	0.0 ppm	0.0 ppm	0.8 %

	Y 224.306 {450} (Axial)	In 230.606 {446} (Axial)	Y 360.073 {94} (Axial)
Concentration average	86.517 %	76.378 %	90.488 %
Concentration per Run 1	84.481 %	74.484 %	90.506 %
Concentration per Run 2	85.078 %	75.661 %	90.214 %
Concentration per Run 3	89.992 %	78.990 %	90.745 %
Concentration RSD	3.5 %	3.1 %	0.3 %
Concentration SD	3.0 %	2.3 %	0.3 %

	Na 818.326 {41} (Radial)	Zn 206.200 {463} (Axial)	Cd 228.802 {447} (Axial)
Concentration average	1,524.166 ppm	0.135 ppm	0.002 ppm

	Na 818.326 {41} (Radial)	Zn 206.200 {463} (Axial)	Cd 228.802 {447} (Axial)
Concentration per Run 1	1,508.879 ppm	0.139 ppm	0.002 ppm
Concentration per Run 2	1,531.256 ppm	0.134 ppm	0.003 ppm
Concentration per Run 3	1,532.362 ppm	0.133 ppm	0.001 ppm
Concentration RSD	0.9 %	2.2 %	33.6 %
Concentration SD	13.3 ppm	0.0 ppm	0.0 ppm

	Cu 324.754 {104} (Radial)
Concentration average	0.004 ppm
Concentration per Run 1	0.029 ppm
Concentration per Run 2	-0.001 ppm
Concentration per Run 3	-0.017 ppm
Concentration RSD	668.1 %
Concentration SD	0.0 ppm

	Al 308.215 {109} (Radial)	B 249.678 {135} (Radial)	Be 313.042 {108} (Radial)	Ca 317.933 {106} (Radial)
Intensity average	175 cps	16 cps	6 cps	106,003 cps

	Ca 373.690 {90} (Radial)	Fe 259.940 {130} (Radial)	Fe 271.441 {124} (Radial)	K 766.490 {44} (Radial)
Intensity average	44,535 cps	1,635 cps	108 cps	1,481 cps

	Li 670.784 {50} (Radial)	Mg 279.079 {121} (Radial)	Na 589.592 {57} (Radial)	Sr 421.552 {80} (Radial)
Intensity average	491 cps	3,281 cps	462,205 cps	92,461 cps

	Ti 334.941 {101} (Radial)	V 292.402 {115} (Radial)	Co 228.616 {447} (Axial)	Ni 231.604 {446} (Axial)
Intensity average	122 cps	7 cps	9 cps	10 cps

	Pb 220.353 {453} (Axial)	Sn 189.989 {478} (Axial)	Tl 190.856 {477} (Axial)	As 189.042 {478} (Axial)
Intensity average	2 cps	0 cps	-3 cps	-3 cps

	Ba 233.527 {445} (Axial)	Mo 202.030 {467} (Axial)	S 182.034 {485} (Axial)	Si 251.611 {134} (Axial)
Intensity average	750 cps	9 cps	39,393 cps	15,543 cps

	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)	Cr 267.716 {126} (Axial)
Intensity average	0 cps	-1 cps	1 cps	50 cps

	Mn 257.610 {131} (Axial)	Y 360.073 {94} (Radial)	Y 224.306 {450} (Axial)	In 230.606 {446} (Axial)
Intensity average	6,114 cps	4,745 cps	6,938 cps	2,194 cps

	Y 360.073 {94} (Axial)	Na 818.326 {41} (Radial)	Zn 206.200 {463} (Axial)	Cd 228.802 {447} (Axial)
Intensity average	119,652 cps	24,023 cps	57 cps	5 cps

	Cu 324.754 {104} (Radial)
Intensity average	7 cps

Comprehensive sample report
11/28/2014 10:10:14 PM

L734810-09 WG756747

Sample Type UNKNOWN Analysis Date 11/28/2014 4:41:55 PM

Dilution Factor 5

	Al 308.215 {109} (Radial)	B 249.678 {135} (Radial)	Be 313.042 {108} (Radial)
Concentration average	27.257 ppm	0.443 ppm	0.002 ppm
Concentration per Run 1	26.993 ppm	0.469 ppm	0.002 ppm
Concentration per Run 2	27.253 ppm	0.459 ppm	0.003 ppm
Concentration per Run 3	27.525 ppm	0.402 ppm	0.002 ppm
Concentration RSD	1.0 %	8.1 %	19.2 %
Concentration SD	0.3 ppm	0.0 ppm	0.0 ppm

	Ca 317.933 {106} (Radial)	Ca 373.690 {90} (Radial)	Fe 259.940 {130} (Radial)
Concentration average	2,061.251 ppm	2,234.418 ppm	37.514 ppm
Concentration per Run 1	2,035.394 ppm	2,199.745 ppm	36.900 ppm
Concentration per Run 2	2,057.453 ppm	2,241.099 ppm	37.713 ppm
Concentration per Run 3	2,090.907 ppm	2,262.409 ppm	37.928 ppm
Concentration RSD	1.4 %	1.4 %	1.4 %
Concentration SD	28.0 ppm	31.9 ppm	0.5 ppm

	Fe 271.441 {124} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	40.839 ppm	16.784 ppm	0.225 ppm
Concentration per Run 1	40.358 ppm	16.510 ppm	0.223 ppm
Concentration per Run 2	40.292 ppm	16.857 ppm	0.224 ppm
Concentration per Run 3	41.866 ppm	16.985 ppm	0.228 ppm
Concentration RSD	2.2 %	1.5 %	1.3 %
Concentration SD	0.9 ppm	0.2 ppm	0.0 ppm

	Mg 279.079 {121} (Radial)	Na 589.592 {57} (Radial)	Sr 421.552 {80} (Radial)
Concentration average	388.130 ppm	1,488.959 ppm	20.378 ppm
Concentration per Run 1	382.877 ppm	1,459.114 ppm	20.178 ppm
Concentration per Run 2	388.519 ppm	1,498.752 ppm	20.360 ppm
Concentration per Run 3	392.993 ppm	1,509.012 ppm	20.595 ppm
Concentration RSD	1.3 %	1.8 %	1.0 %
Concentration SD	5.1 ppm	26.4 ppm	0.2 ppm

	Ti 334.941 {101} (Radial)	V 292.402 {115} (Radial)	Co 228.616 {447} (Axial)
Concentration average	0.314 ppm	0.100 ppm	0.036 ppm
Concentration per Run 1	0.316 ppm	0.101 ppm	0.037 ppm
Concentration per Run 2	0.320 ppm	0.081 ppm	0.035 ppm
Concentration per Run 3	0.306 ppm	0.116 ppm	0.036 ppm
Concentration RSD	2.3 %	17.6 %	2.0 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm

	Ni 231.604 {446} (Axial)	Pb 220.353 {453} (Axial)	Sn 189.989 {478} (Axial)
Concentration average	0.047 ppm	0.050 ppm	-0.011 ppm
Concentration per Run 1	0.047 ppm	0.045 ppm	-0.009 ppm

	Ni 231.604 {446} (Axial)	Pb 220.353 {453} (Axial)	Sn 189.989 {478} (Axial)
Concentration per Run 2	0.045 ppm	0.057 ppm	-0.011 ppm
Concentration per Run 3	0.049 ppm	0.049 ppm	-0.014 ppm
Concentration RSD	4.6 %	12.2 %	22.4 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm

	Tl 190.856 {477} (Axial)	As 189.042 {478} (Axial)	Ba 233.527 {445} (Axial)
Concentration average	0.001 ppm	-0.002 ppm	0.788 ppm
Concentration per Run 1	-0.002 ppm	-0.007 ppm	0.791 ppm
Concentration per Run 2	0.009 ppm	0.006 ppm	0.785 ppm
Concentration per Run 3	-0.006 ppm	-0.005 ppm	0.789 ppm
Concentration RSD	1,244.7 %	393.2 %	0.3 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm

	Mo 202.030 {467} (Axial)	S 182.034 {485} (Axial)	Si 251.611 {134} (Axial)
Concentration average	0.010 ppm	1,574.418 ppm	53.559 ppm
Concentration per Run 1	0.010 ppm	1,578.299 ppm	53.600 ppm
Concentration per Run 2	0.011 ppm	1,574.795 ppm	53.664 ppm
Concentration per Run 3	0.009 ppm	1,570.162 ppm	53.413 ppm
Concentration RSD	7.2 %	0.3 %	0.2 %
Concentration SD	0.0 ppm	4.1 ppm	0.1 ppm

	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)
Concentration average	-0.015 ppm	0.015 ppm	-0.007 ppm
Concentration per Run 1	-0.020 ppm	0.035 ppm	-0.007 ppm
Concentration per Run 2	-0.012 ppm	0.008 ppm	-0.005 ppm
Concentration per Run 3	-0.013 ppm	0.002 ppm	-0.010 ppm
Concentration RSD	30.8 %	115.7 %	36.0 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm

	Cr 267.716 {126} (Axial)	Mn 257.610 {131} (Axial)	Y 360.073 {94} (Radial)
Concentration average	0.067 ppm	1.344 ppm	94.162 %
Concentration per Run 1	0.067 ppm	1.349 ppm	94.939 %
Concentration per Run 2	0.069 ppm	1.345 ppm	94.157 %
Concentration per Run 3	0.065 ppm	1.337 ppm	93.391 %
Concentration RSD	2.8 %	0.4 %	0.8 %
Concentration SD	0.0 ppm	0.0 ppm	0.8 %

	Y 224.306 {450} (Axial)	In 230.606 {446} (Axial)	Y 360.073 {94} (Axial)
Concentration average	88.893 %	77.706 %	89.439 %
Concentration per Run 1	88.912 %	77.674 %	89.358 %
Concentration per Run 2	88.895 %	77.573 %	89.383 %
Concentration per Run 3	88.874 %	77.869 %	89.576 %
Concentration RSD	0.0 %	0.2 %	0.1 %
Concentration SD	0.0 %	0.2 %	0.1 %

	Na 818.326 {41} (Radial)	Zn 206.200 {463} (Axial)	Cd 228.802 {447} (Axial)
Concentration average	1,613.172 ppm	0.150 ppm	0.001 ppm

	Na 818.326 {41} (Radial)	Zn 206.200 {463} (Axial)	Cd 228.802 {447} (Axial)
Concentration per Run 1	1,598.088 ppm	0.149 ppm	0.001 ppm
Concentration per Run 2	1,609.658 ppm	0.150 ppm	0.000 ppm
Concentration per Run 3	1,631.771 ppm	0.152 ppm	0.001 ppm
Concentration RSD	1.1 %	1.0 %	84.7 %
Concentration SD	17.1 ppm	0.0 ppm	0.0 ppm

	Cu 324.754 {104} (Radial)
Concentration average	0.046 ppm
Concentration per Run 1	0.051 ppm
Concentration per Run 2	0.044 ppm
Concentration per Run 3	0.044 ppm
Concentration RSD	8.8 %
Concentration SD	0.0 ppm

	Al 308.215 {109} (Radial)	B 249.678 {135} (Radial)	Be 313.042 {108} (Radial)	Ca 317.933 {106} (Radial)
Intensity average	220 cps	15 cps	6 cps	152,400 cps

	Ca 373.690 {90} (Radial)	Fe 259.940 {130} (Radial)	Fe 271.441 {124} (Radial)	K 766.490 {44} (Radial)
Intensity average	64,740 cps	1,795 cps	116 cps	1,673 cps

	Li 670.784 {50} (Radial)	Mg 279.079 {121} (Radial)	Na 589.592 {57} (Radial)	Sr 421.552 {80} (Radial)
Intensity average	557 cps	2,678 cps	486,886 cps	111,320 cps

	Ti 334.941 {101} (Radial)	V 292.402 {115} (Radial)	Co 228.616 {447} (Axial)	Ni 231.604 {446} (Axial)
Intensity average	113 cps	7 cps	12 cps	13 cps

	Pb 220.353 {453} (Axial)	Sn 189.989 {478} (Axial)	Tl 190.856 {477} (Axial)	As 189.042 {478} (Axial)
Intensity average	4 cps	0 cps	-3 cps	-3 cps

	Ba 233.527 {445} (Axial)	Mo 202.030 {467} (Axial)	S 182.034 {485} (Axial)	Si 251.611 {134} (Axial)
Intensity average	691 cps	7 cps	49,399 cps	17,804 cps

	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)	Cr 267.716 {126} (Axial)
Intensity average	0 cps	-1 cps	-2 cps	56 cps

	Mn 257.610 {131} (Axial)	Y 360.073 {94} (Radial)	Y 224.306 {450} (Axial)	In 230.606 {446} (Axial)
Intensity average	8,461 cps	4,644 cps	7,129 cps	2,232 cps

	Y 360.073 {94} (Axial)	Na 818.326 {41} (Radial)	Zn 206.200 {463} (Axial)	Cd 228.802 {447} (Axial)
Intensity average	118,265 cps	24,892 cps	65 cps	5 cps

	Cu 324.754 {104} (Radial)
Intensity average	11 cps

Comprehensive sample report

11/28/2014 10:10:14 PM

L735181-02 WG756747

Sample Type UNKNOWN Analysis Date 11/28/2014 4:46:31 PM

Dilution Factor 5

	Al 308.215 {109} (Radial)	B 249.678 {135} (Radial)	Be 313.042 {108} (Radial)
Concentration average	7.368 ppm	0.222 ppm	0.001 ppm
Concentration per Run 1	7.070 ppm	0.190 ppm	0.001 ppm
Concentration per Run 2	7.505 ppm	0.255 ppm	0.001 ppm
Concentration per Run 3	7.529 ppm	0.219 ppm	0.000 ppm
Concentration RSD	3.5 %	14.7 %	87.9 %
Concentration SD	0.3 ppm	0.0 ppm	0.0 ppm

	Ca 317.933 {106} (Radial)	Ca 373.690 {90} (Radial)	Fe 259.940 {130} (Radial)
Concentration average	1,032.192 ppm	1,099.859 ppm	7.484 ppm
Concentration per Run 1	1,026.389 ppm	1,095.328 ppm	7.425 ppm
Concentration per Run 2	1,041.185 ppm	1,107.817 ppm	7.557 ppm
Concentration per Run 3	1,029.003 ppm	1,096.432 ppm	7.471 ppm
Concentration RSD	0.8 %	0.6 %	0.9 %
Concentration SD	7.9 ppm	6.9 ppm	0.1 ppm

	Fe 271.441 {124} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	8.498 ppm	14.471 ppm	0.205 ppm
Concentration per Run 1	8.374 ppm	14.421 ppm	0.209 ppm
Concentration per Run 2	8.564 ppm	14.497 ppm	0.204 ppm
Concentration per Run 3	8.555 ppm	14.495 ppm	0.203 ppm
Concentration RSD	1.3 %	0.3 %	1.5 %
Concentration SD	0.1 ppm	0.0 ppm	0.0 ppm

	Mg 279.079 {121} (Radial)	Na 589.592 {57} (Radial)	Sr 421.552 {80} (Radial)
Concentration average	184.099 ppm	660.221 ppm	13.296 ppm
Concentration per Run 1	182.707 ppm	661.879 ppm	13.293 ppm
Concentration per Run 2	185.495 ppm	662.166 ppm	13.295 ppm
Concentration per Run 3	184.096 ppm	656.617 ppm	13.301 ppm
Concentration RSD	0.8 %	0.5 %	0.0 %
Concentration SD	1.4 ppm	3.1 ppm	0.0 ppm

	Ti 334.941 {101} (Radial)	V 292.402 {115} (Radial)	Co 228.616 {447} (Axial)
Concentration average	0.200 ppm	0.027 ppm	0.013 ppm
Concentration per Run 1	0.203 ppm	0.045 ppm	0.013 ppm
Concentration per Run 2	0.206 ppm	0.013 ppm	0.012 ppm
Concentration per Run 3	0.193 ppm	0.024 ppm	0.013 ppm
Concentration RSD	3.4 %	61.4 %	3.8 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm

	Ni 231.604 {446} (Axial)	Pb 220.353 {453} (Axial)	Sn 189.989 {478} (Axial)
Concentration average	0.013 ppm	0.016 ppm	-0.008 ppm
Concentration per Run 1	0.011 ppm	0.016 ppm	-0.009 ppm

	Ni 231.604 {446} (Axial)	Pb 220.353 {453} (Axial)	Sn 189.989 {478} (Axial)
Concentration per Run 2	0.012 ppm	0.023 ppm	-0.003 ppm
Concentration per Run 3	0.015 ppm	0.010 ppm	-0.011 ppm
Concentration RSD	18.9 %	42.1 %	48.4 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm

	Tl 190.856 {477} (Axial)	As 189.042 {478} (Axial)	Ba 233.527 {445} (Axial)
Concentration average	0.012 ppm	0.003 ppm	0.271 ppm
Concentration per Run 1	0.025 ppm	-0.002 ppm	0.271 ppm
Concentration per Run 2	0.010 ppm	0.007 ppm	0.271 ppm
Concentration per Run 3	0.002 ppm	0.002 ppm	0.270 ppm
Concentration RSD	94.3 %	178.6 %	0.3 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm

	Mo 202.030 {467} (Axial)	S 182.034 {485} (Axial)	Si 251.611 {134} (Axial)
Concentration average	0.020 ppm	890.390 ppm	43.881 ppm
Concentration per Run 1	0.020 ppm	891.108 ppm	43.761 ppm
Concentration per Run 2	0.020 ppm	890.378 ppm	44.024 ppm
Concentration per Run 3	0.020 ppm	889.683 ppm	43.858 ppm
Concentration RSD	0.4 %	0.1 %	0.3 %
Concentration SD	0.0 ppm	0.7 ppm	0.1 ppm

	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)
Concentration average	-0.013 ppm	0.018 ppm	-0.007 ppm
Concentration per Run 1	-0.007 ppm	0.039 ppm	-0.009 ppm
Concentration per Run 2	-0.011 ppm	0.015 ppm	-0.007 ppm
Concentration per Run 3	-0.020 ppm	0.001 ppm	-0.006 ppm
Concentration RSD	52.9 %	104.1 %	22.2 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm

	Cr 267.716 {126} (Axial)	Mn 257.610 {131} (Axial)	Y 360.073 {94} (Radial)
Concentration average	0.011 ppm	0.727 ppm	96.688 %
Concentration per Run 1	0.011 ppm	0.724 ppm	97.044 %
Concentration per Run 2	0.011 ppm	0.731 ppm	95.900 %
Concentration per Run 3	0.013 ppm	0.726 ppm	97.119 %
Concentration RSD	9.8 %	0.6 %	0.7 %
Concentration SD	0.0 ppm	0.0 ppm	0.7 %

	Y 224.306 {450} (Axial)	In 230.606 {446} (Axial)	Y 360.073 {94} (Axial)
Concentration average	93.394 %	84.320 %	93.509 %
Concentration per Run 1	93.195 %	84.293 %	93.228 %
Concentration per Run 2	93.593 %	84.444 %	93.604 %
Concentration per Run 3	93.393 %	84.222 %	93.694 %
Concentration RSD	0.2 %	0.1 %	0.3 %
Concentration SD	0.2 %	0.1 %	0.2 %

	Na 818.326 {41} (Radial)	Zn 206.200 {463} (Axial)	Cd 228.802 {447} (Axial)
Concentration average	699.947 ppm	0.031 ppm	0.000 ppm

	Na 818.326 {41} (Radial)	Zn 206.200 {463} (Axial)	Cd 228.802 {447} (Axial)
Concentration per Run 1	697.399 ppm	0.032 ppm	0.000 ppm
Concentration per Run 2	700.424 ppm	0.028 ppm	0.000 ppm
Concentration per Run 3	702.017 ppm	0.031 ppm	-0.001 ppm
Concentration RSD	0.3 %	6.5 %	124.1 %
Concentration SD	2.3 ppm	0.0 ppm	0.0 ppm

	Cu 324.754 {104} (Radial)
Concentration average	-0.002 ppm
Concentration per Run 1	-0.009 ppm
Concentration per Run 2	-0.010 ppm
Concentration per Run 3	0.014 ppm
Concentration RSD	715.4 %
Concentration SD	0.0 ppm

	Al 308.215 {109} (Radial)	B 249.678 {135} (Radial)	Be 313.042 {108} (Radial)	Ca 317.933 {106} (Radial)
Intensity average	64 cps	8 cps	2 cps	78,385 cps

	Ca 373.690 {90} (Radial)	Fe 259.940 {130} (Radial)	Fe 271.441 {124} (Radial)	K 766.490 {44} (Radial)
Intensity average	32,729 cps	369 cps	25 cps	1,484 cps

	Li 670.784 {50} (Radial)	Mg 279.079 {121} (Radial)	Na 589.592 {57} (Radial)	Sr 421.552 {80} (Radial)
Intensity average	521 cps	1,304 cps	221,727 cps	74,587 cps

	Ti 334.941 {101} (Radial)	V 292.402 {115} (Radial)	Co 228.616 {447} (Axial)	Ni 231.604 {446} (Axial)
Intensity average	75 cps	2 cps	3 cps	4 cps

	Pb 220.353 {453} (Axial)	Sn 189.989 {478} (Axial)	Tl 190.856 {477} (Axial)	As 189.042 {478} (Axial)
Intensity average	1 cps	1 cps	-2 cps	-3 cps

	Ba 233.527 {445} (Axial)	Mo 202.030 {467} (Axial)	S 182.034 {485} (Axial)	Si 251.611 {134} (Axial)
Intensity average	250 cps	12 cps	29,352 cps	15,256 cps

	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)	Cr 267.716 {126} (Axial)
Intensity average	1 cps	-1 cps	-2 cps	12 cps

	Mn 257.610 {131} (Axial)	Y 360.073 {94} (Radial)	Y 224.306 {450} (Axial)	In 230.606 {446} (Axial)
Intensity average	4,789 cps	4,769 cps	7,490 cps	2,422 cps

	Y 360.073 {94} (Axial)	Na 818.326 {41} (Radial)	Zn 206.200 {463} (Axial)	Cd 228.802 {447} (Axial)
Intensity average	123,646 cps	11,005 cps	14 cps	4 cps

	Cu 324.754 {104} (Radial)
Intensity average	6 cps

Comprehensive sample report

11/28/2014 10:10:14 PM

L735181-05 WG756747

Sample Type UNKNOWN Analysis Date 11/28/2014 4:51:06 PM

Dilution Factor 5

	Al 308.215 {109} (Radial)	B 249.678 {135} (Radial)	Be 313.042 {108} (Radial)
Concentration average	1.543 ppm	0.413 ppm	0.000 ppm
Concentration per Run 1	1.639 ppm	0.414 ppm	0.001 ppm
Concentration per Run 2	1.330 ppm	0.381 ppm	-0.001 ppm
Concentration per Run 3	1.661 ppm	0.442 ppm	0.000 ppm
Concentration RSD	12.0 %	7.4 %	518.4 %
Concentration SD	0.2 ppm	0.0 ppm	0.0 ppm

	Ca 317.933 {106} (Radial)	Ca 373.690 {90} (Radial)	Fe 259.940 {130} (Radial)
Concentration average	755.062 ppm	803.723 ppm	1.245 ppm
Concentration per Run 1	751.373 ppm	796.423 ppm	1.240 ppm
Concentration per Run 2	757.498 ppm	807.473 ppm	1.257 ppm
Concentration per Run 3	756.314 ppm	807.274 ppm	1.239 ppm
Concentration RSD	0.4 %	0.8 %	0.8 %
Concentration SD	3.2 ppm	6.3 ppm	0.0 ppm

	Fe 271.441 {124} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	1.806 ppm	20.623 ppm	0.285 ppm
Concentration per Run 1	2.067 ppm	20.426 ppm	0.284 ppm
Concentration per Run 2	1.428 ppm	20.743 ppm	0.283 ppm
Concentration per Run 3	1.924 ppm	20.701 ppm	0.289 ppm
Concentration RSD	18.6 %	0.8 %	1.1 %
Concentration SD	0.3 ppm	0.2 ppm	0.0 ppm

	Mg 279.079 {121} (Radial)	Na 589.592 {57} (Radial)	Sr 421.552 {80} (Radial)
Concentration average	701.593 ppm	2,744.687 ppm	16.116 ppm
Concentration per Run 1	698.399 ppm	2,774.268 ppm	15.949 ppm
Concentration per Run 2	702.954 ppm	2,721.733 ppm	16.182 ppm
Concentration per Run 3	703.425 ppm	2,738.060 ppm	16.219 ppm
Concentration RSD	0.4 %	1.0 %	0.9 %
Concentration SD	2.8 ppm	26.9 ppm	0.1 ppm

	Ti 334.941 {101} (Radial)	V 292.402 {115} (Radial)	Co 228.616 {447} (Axial)
Concentration average	0.093 ppm	0.040 ppm	0.022 ppm
Concentration per Run 1	0.091 ppm	0.028 ppm	0.022 ppm
Concentration per Run 2	0.095 ppm	0.056 ppm	0.027 ppm
Concentration per Run 3	0.092 ppm	0.036 ppm	0.019 ppm
Concentration RSD	2.6 %	35.2 %	18.1 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm

	Ni 231.604 {446} (Axial)	Pb 220.353 {453} (Axial)	Sn 189.989 {478} (Axial)
Concentration average	0.003 ppm	0.004 ppm	-0.010 ppm
Concentration per Run 1	0.005 ppm	0.009 ppm	-0.011 ppm

	Ni 231.604 {446} (Axial)	Pb 220.353 {453} (Axial)	Sn 189.989 {478} (Axial)
Concentration per Run 2	0.002 ppm	-0.004 ppm	-0.007 ppm
Concentration per Run 3	0.002 ppm	0.006 ppm	-0.012 ppm
Concentration RSD	50.0 %	172.3 %	26.6 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm

	Tl 190.856 {477} (Axial)	As 189.042 {478} (Axial)	Ba 233.527 {445} (Axial)
Concentration average	-0.002 ppm	0.008 ppm	0.084 ppm
Concentration per Run 1	-0.003 ppm	0.008 ppm	0.084 ppm
Concentration per Run 2	0.000 ppm	0.004 ppm	0.083 ppm
Concentration per Run 3	-0.002 ppm	0.013 ppm	0.084 ppm
Concentration RSD	81.5 %	55.9 %	0.9 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm

	Mo 202.030 {467} (Axial)	S 182.034 {485} (Axial)	Si 251.611 {134} (Axial)
Concentration average	0.018 ppm	1,222.533 ppm	25.555 ppm
Concentration per Run 1	0.019 ppm	1,221.481 ppm	25.520 ppm
Concentration per Run 2	0.018 ppm	1,225.373 ppm	25.721 ppm
Concentration per Run 3	0.018 ppm	1,220.744 ppm	25.424 ppm
Concentration RSD	3.4 %	0.2 %	0.6 %
Concentration SD	0.0 ppm	2.5 ppm	0.2 ppm

	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)
Concentration average	-0.011 ppm	0.010 ppm	-0.009 ppm
Concentration per Run 1	-0.013 ppm	-0.004 ppm	-0.009 ppm
Concentration per Run 2	-0.019 ppm	0.015 ppm	-0.005 ppm
Concentration per Run 3	-0.001 ppm	0.018 ppm	-0.012 ppm
Concentration RSD	86.2 %	122.1 %	39.4 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm

	Cr 267.716 {126} (Axial)	Mn 257.610 {131} (Axial)	Y 360.073 {94} (Radial)
Concentration average	0.003 ppm	0.649 ppm	94.263 %
Concentration per Run 1	0.003 ppm	0.651 ppm	94.511 %
Concentration per Run 2	-0.001 ppm	0.650 ppm	94.360 %
Concentration per Run 3	0.006 ppm	0.645 ppm	93.917 %
Concentration RSD	148.6 %	0.4 %	0.3 %
Concentration SD	0.0 ppm	0.0 ppm	0.3 %

	Y 224.306 {450} (Axial)	In 230.606 {446} (Axial)	Y 360.073 {94} (Axial)
Concentration average	87.528 %	76.399 %	87.695 %
Concentration per Run 1	87.971 %	76.548 %	87.681 %
Concentration per Run 2	87.323 %	76.428 %	87.480 %
Concentration per Run 3	87.289 %	76.221 %	87.924 %
Concentration RSD	0.4 %	0.2 %	0.3 %
Concentration SD	0.4 %	0.2 %	0.2 %

	Na 818.326 {41} (Radial)	Zn 206.200 {463} (Axial)	Cd 228.802 {447} (Axial)
Concentration average	3,210.407 ppm	0.011 ppm	0.000 ppm

	Na 818.326 {41} (Radial)	Zn 206.200 {463} (Axial)	Cd 228.802 {447} (Axial)
Concentration per Run 1	3,184.278 ppm	0.011 ppm	0.000 ppm
Concentration per Run 2	3,223.815 ppm	0.010 ppm	0.000 ppm
Concentration per Run 3	3,223.129 ppm	0.011 ppm	0.001 ppm
Concentration RSD	0.7 %	5.0 %	75.9 %
Concentration SD	22.6 ppm	0.0 ppm	0.0 ppm

	Cu 324.754 {104} (Radial)
Concentration average	0.003 ppm
Concentration per Run 1	0.010 ppm
Concentration per Run 2	-0.001 ppm
Concentration per Run 3	0.000 ppm
Concentration RSD	193.0 %
Concentration SD	0.0 ppm

	Al 308.215 {109} (Radial)	B 249.678 {135} (Radial)	Be 313.042 {108} (Radial)	Ca 317.933 {106} (Radial)
Intensity average	17 cps	14 cps	0 cps	55,913 cps

	Ca 373.690 {90} (Radial)	Fe 259.940 {130} (Radial)	Fe 271.441 {124} (Radial)	K 766.490 {44} (Radial)
Intensity average	23,320 cps	61 cps	5 cps	2,054 cps

	Li 670.784 {50} (Radial)	Mg 279.079 {121} (Radial)	Na 589.592 {57} (Radial)	Sr 421.552 {80} (Radial)
Intensity average	706 cps	4,846 cps	898,517 cps	88,139 cps

	Ti 334.941 {101} (Radial)	V 292.402 {115} (Radial)	Co 228.616 {447} (Axial)	Ni 231.604 {446} (Axial)
Intensity average	34 cps	2 cps	7 cps	1 cps

	Pb 220.353 {453} (Axial)	Sn 189.989 {478} (Axial)	Tl 190.856 {477} (Axial)	As 189.042 {478} (Axial)
Intensity average	-1 cps	0 cps	-3 cps	-3 cps

	Ba 233.527 {445} (Axial)	Mo 202.030 {467} (Axial)	S 182.034 {485} (Axial)	Si 251.611 {134} (Axial)
Intensity average	74 cps	11 cps	37,769 cps	8,344 cps

	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)	Cr 267.716 {126} (Axial)
Intensity average	1 cps	-1 cps	-4 cps	4 cps

	Mn 257.610 {131} (Axial)	Y 360.073 {94} (Radial)	Y 224.306 {450} (Axial)	In 230.606 {446} (Axial)
Intensity average	4,008 cps	4,649 cps	7,019 cps	2,194 cps

	Y 360.073 {94} (Axial)	Na 818.326 {41} (Radial)	Zn 206.200 {463} (Axial)	Cd 228.802 {447} (Axial)
Intensity average	115,959 cps	49,742 cps	4 cps	4 cps

	Cu 324.754 {104} (Radial)
Intensity average	6 cps

Comprehensive sample report
11/28/2014 10:10:14 PM

L735181-07 WG756747

Sample Type UNKNOWN Analysis Date 11/28/2014 4:55:40 PM

Dilution Factor 5

	Al 308.215 {109} (Radial)	B 249.678 {135} (Radial)	Be 313.042 {108} (Radial)
Concentration average	6.106 ppm	0.445 ppm	0.001 ppm
Concentration per Run 1	6.231 ppm	0.442 ppm	0.001 ppm
Concentration per Run 2	6.034 ppm	0.420 ppm	0.000 ppm
Concentration per Run 3	6.054 ppm	0.475 ppm	0.001 ppm
Concentration RSD	1.8 %	6.3 %	97.8 %
Concentration SD	0.1 ppm	0.0 ppm	0.0 ppm

	Ca 317.933 {106} (Radial)	Ca 373.690 {90} (Radial)	Fe 259.940 {130} (Radial)
Concentration average	863.932 ppm	919.471 ppm	6.673 ppm
Concentration per Run 1	870.208 ppm	927.532 ppm	6.733 ppm
Concentration per Run 2	845.503 ppm	900.045 ppm	6.587 ppm
Concentration per Run 3	876.084 ppm	930.837 ppm	6.700 ppm
Concentration RSD	1.9 %	1.8 %	1.1 %
Concentration SD	16.2 ppm	16.9 ppm	0.1 ppm

	Fe 271.441 {124} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	7.424 ppm	17.735 ppm	0.382 ppm
Concentration per Run 1	7.311 ppm	17.945 ppm	0.386 ppm
Concentration per Run 2	7.322 ppm	17.355 ppm	0.377 ppm
Concentration per Run 3	7.638 ppm	17.906 ppm	0.384 ppm
Concentration RSD	2.5 %	1.9 %	1.3 %
Concentration SD	0.2 ppm	0.3 ppm	0.0 ppm

	Mg 279.079 {121} (Radial)	Na 589.592 {57} (Radial)	Sr 421.552 {80} (Radial)
Concentration average	450.325 ppm	1,793.778 ppm	15.032 ppm
Concentration per Run 1	452.323 ppm	1,841.895 ppm	15.176 ppm
Concentration per Run 2	441.508 ppm	1,740.067 ppm	14.774 ppm
Concentration per Run 3	457.144 ppm	1,799.372 ppm	15.146 ppm
Concentration RSD	1.8 %	2.9 %	1.5 %
Concentration SD	8.0 ppm	51.1 ppm	0.2 ppm

	Ti 334.941 {101} (Radial)	V 292.402 {115} (Radial)	Co 228.616 {447} (Axial)
Concentration average	0.147 ppm	0.139 ppm	0.017 ppm
Concentration per Run 1	0.145 ppm	0.141 ppm	0.019 ppm
Concentration per Run 2	0.148 ppm	0.144 ppm	0.017 ppm
Concentration per Run 3	0.147 ppm	0.133 ppm	0.016 ppm
Concentration RSD	1.1 %	4.0 %	7.4 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm

	Ni 231.604 {446} (Axial)	Pb 220.353 {453} (Axial)	Sn 189.989 {478} (Axial)
Concentration average	0.009 ppm	0.013 ppm	-0.014 ppm
Concentration per Run 1	0.009 ppm	0.014 ppm	-0.015 ppm

	Ni 231.604 {446} (Axial)	Pb 220.353 {453} (Axial)	Sn 189.989 {478} (Axial)
Concentration per Run 2	0.008 ppm	0.016 ppm	-0.014 ppm
Concentration per Run 3	0.010 ppm	0.009 ppm	-0.014 ppm
Concentration RSD	10.6 %	27.8 %	6.0 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm

	Tl 190.856 {477} (Axial)	As 189.042 {478} (Axial)	Ba 233.527 {445} (Axial)
Concentration average	0.002 ppm	0.027 ppm	0.148 ppm
Concentration per Run 1	0.002 ppm	0.028 ppm	0.147 ppm
Concentration per Run 2	0.004 ppm	0.016 ppm	0.149 ppm
Concentration per Run 3	0.000 ppm	0.037 ppm	0.148 ppm
Concentration RSD	92.4 %	38.7 %	0.4 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm

	Mo 202.030 {467} (Axial)	S 182.034 {485} (Axial)	Si 251.611 {134} (Axial)
Concentration average	0.048 ppm	1,036.218 ppm	43.054 ppm
Concentration per Run 1	0.048 ppm	1,031.759 ppm	43.025 ppm
Concentration per Run 2	0.049 ppm	1,030.562 ppm	43.069 ppm
Concentration per Run 3	0.047 ppm	1,046.332 ppm	43.070 ppm
Concentration RSD	1.8 %	0.8 %	0.1 %
Concentration SD	0.0 ppm	8.8 ppm	0.0 ppm

	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)
Concentration average	-0.014 ppm	0.014 ppm	-0.010 ppm
Concentration per Run 1	-0.017 ppm	0.029 ppm	-0.011 ppm
Concentration per Run 2	-0.008 ppm	0.010 ppm	-0.010 ppm
Concentration per Run 3	-0.017 ppm	0.004 ppm	-0.010 ppm
Concentration RSD	36.5 %	92.1 %	2.9 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm

	Cr 267.716 {126} (Axial)	Mn 257.610 {131} (Axial)	Y 360.073 {94} (Radial)
Concentration average	0.012 ppm	0.351 ppm	94.795 %
Concentration per Run 1	0.013 ppm	0.352 ppm	94.007 %
Concentration per Run 2	0.013 ppm	0.350 ppm	96.278 %
Concentration per Run 3	0.011 ppm	0.352 ppm	94.101 %
Concentration RSD	7.1 %	0.4 %	1.4 %
Concentration SD	0.0 ppm	0.0 ppm	1.3 %

	Y 224.306 {450} (Axial)	In 230.606 {446} (Axial)	Y 360.073 {94} (Axial)
Concentration average	89.545 %	79.161 %	89.374 %
Concentration per Run 1	89.944 %	79.550 %	89.635 %
Concentration per Run 2	90.138 %	79.399 %	89.290 %
Concentration per Run 3	88.552 %	78.536 %	89.198 %
Concentration RSD	1.0 %	0.7 %	0.3 %
Concentration SD	0.9 %	0.5 %	0.2 %

	Na 818.326 {41} (Radial)	Zn 206.200 {463} (Axial)	Cd 228.802 {447} (Axial)
Concentration average	1,987.027 ppm	0.028 ppm	0.001 ppm

	Na 818.326 {41} (Radial)	Zn 206.200 {463} (Axial)	Cd 228.802 {447} (Axial)
Concentration per Run 1	2,004.664 ppm	0.027 ppm	0.001 ppm
Concentration per Run 2	1,951.443 ppm	0.029 ppm	0.001 ppm
Concentration per Run 3	2,004.973 ppm	0.029 ppm	0.001 ppm
Concentration RSD	1.6 %	2.8 %	9.6 %
Concentration SD	30.8 ppm	0.0 ppm	0.0 ppm

	Cu 324.754 {104} (Radial)
Concentration average	0.003 ppm
Concentration per Run 1	0.013 ppm
Concentration per Run 2	0.022 ppm
Concentration per Run 3	-0.026 ppm
Concentration RSD	865.6 %
Concentration SD	0.0 ppm

	Al 308.215 {109} (Radial)	B 249.678 {135} (Radial)	Be 313.042 {108} (Radial)	Ca 317.933 {106} (Radial)
Intensity average	53 cps	16 cps	2 cps	64,321 cps

	Ca 373.690 {90} (Radial)	Fe 259.940 {130} (Radial)	Fe 271.441 {124} (Radial)	K 766.490 {44} (Radial)
Intensity average	26,823 cps	322 cps	21 cps	1,779 cps

	Li 670.784 {50} (Radial)	Mg 279.079 {121} (Radial)	Na 589.592 {57} (Radial)	Sr 421.552 {80} (Radial)
Intensity average	952 cps	3,128 cps	590,410 cps	82,662 cps

	Ti 334.941 {101} (Radial)	V 292.402 {115} (Radial)	Co 228.616 {447} (Axial)	Ni 231.604 {446} (Axial)
Intensity average	54 cps	10 cps	5 cps	3 cps

	Pb 220.353 {453} (Axial)	Sn 189.989 {478} (Axial)	Tl 190.856 {477} (Axial)	As 189.042 {478} (Axial)
Intensity average	0 cps	0 cps	-3 cps	-2 cps

	Ba 233.527 {445} (Axial)	Mo 202.030 {467} (Axial)	S 182.034 {485} (Axial)	Si 251.611 {134} (Axial)
Intensity average	132 cps	25 cps	32,750 cps	14,307 cps

	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)	Cr 267.716 {126} (Axial)
Intensity average	0 cps	-1 cps	-5 cps	12 cps

	Mn 257.610 {131} (Axial)	Y 360.073 {94} (Radial)	Y 224.306 {450} (Axial)	In 230.606 {446} (Axial)
Intensity average	2,214 cps	4,676 cps	7,181 cps	2,274 cps

	Y 360.073 {94} (Axial)	Na 818.326 {41} (Radial)	Zn 206.200 {463} (Axial)	Cd 228.802 {447} (Axial)
Intensity average	118,179 cps	30,900 cps	12 cps	5 cps

	Cu 324.754 {104} (Radial)
Intensity average	6 cps

Comprehensive sample report

11/28/2014 10:10:14 PM

L735181-08 WG756747

Sample Type UNKNOWN Analysis Date 11/28/2014 5:00:08 PM

Dilution Factor 5

	Al 308.215 {109} (Radial)	B 249.678 {135} (Radial)	Be 313.042 {108} (Radial)	Ca 317.933 {106} (Radial)
Concentration average	4.104 ppm	0.188 ppm	0.000 ppm	704.666 ppm
Concentration per Run 1	4.081 ppm	0.172 ppm	0.000 ppm	705.946 ppm
Concentration per Run 2	4.078 ppm	0.185 ppm	-0.001 ppm	701.696 ppm
Concentration per Run 3	4.154 ppm	0.206 ppm	0.000 ppm	706.357 ppm
Concentration RSD	1.0 %	9.1 %	223.4 %	0.4 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	2.6 ppm

	Ca 373.690 {90} (Radial)	Fe 259.940 {130} (Radial)	Fe 271.441 {124} (Radial)	K 766.490 {44} (Radial)
Concentration average	748.163 ppm	3.873 ppm	4.230 ppm	13.980 ppm
Concentration per Run 1	750.658 ppm	3.914 ppm	4.201 ppm	13.941 ppm
Concentration per Run 2	743.378 ppm	3.828 ppm	4.341 ppm	13.845 ppm
Concentration per Run 3	750.452 ppm	3.877 ppm	4.147 ppm	14.154 ppm
Concentration RSD	0.6 %	1.1 %	2.4 %	1.1 %
Concentration SD	4.1 ppm	0.0 ppm	0.1 ppm	0.2 ppm

	Li 670.784 {50} (Radial)	Mg 279.079 {121} (Radial)	Na 589.592 {57} (Radial)	Sr 421.552 {80} (Radial)
Concentration average	0.341 ppm	114.507 ppm	66.434 ppm	10.403 ppm
Concentration per Run 1	0.339 ppm	114.712 ppm	66.481 ppm	10.432 ppm
Concentration per Run 2	0.340 ppm	114.794 ppm	65.991 ppm	10.315 ppm
Concentration per Run 3	0.344 ppm	114.017 ppm	66.831 ppm	10.460 ppm
Concentration RSD	0.7 %	0.4 %	0.6 %	0.7 %
Concentration SD	0.0 ppm	0.4 ppm	0.4 ppm	0.1 ppm

	Ti 334.941 {101} (Radial)	V 292.402 {115} (Radial)	Co 228.616 {447} (Axial)	Ni 231.604 {446} (Axial)
Concentration average	0.143 ppm	0.032 ppm	0.008 ppm	0.007 ppm
Concentration per Run 1	0.145 ppm	0.036 ppm	0.006 ppm	0.006 ppm
Concentration per Run 2	0.142 ppm	0.012 ppm	0.010 ppm	0.009 ppm
Concentration per Run 3	0.141 ppm	0.046 ppm	0.007 ppm	0.006 ppm
Concentration RSD	1.6 %	55.0 %	25.8 %	25.9 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Pb 220.353 {453} (Axial)	Sn 189.989 {478} (Axial)	Tl 190.856 {477} (Axial)	As 189.042 {478} (Axial)
Concentration average	0.015 ppm	-0.011 ppm	0.010 ppm	0.028 ppm
Concentration per Run 1	0.019 ppm	-0.010 ppm	0.010 ppm	0.029 ppm
Concentration per Run 2	0.006 ppm	-0.013 ppm	0.004 ppm	0.037 ppm
Concentration per Run 3	0.022 ppm	-0.012 ppm	0.015 ppm	0.020 ppm
Concentration RSD	55.6 %	9.7 %	61.1 %	29.9 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Ba 233.527 {445} (Axial)	Mo 202.030 {467} (Axial)	S 182.034 {485} (Axial)	Si 251.611 {134} (Axial)
Concentration average	0.163 ppm	0.024 ppm	536.016 ppm	49.740 ppm
Concentration per Run 1	0.163 ppm	0.024 ppm	535.428 ppm	49.867 ppm
Concentration per Run 2	0.163 ppm	0.025 ppm	535.970 ppm	49.561 ppm
Concentration per Run 3	0.162 ppm	0.023 ppm	536.651 ppm	49.792 ppm
Concentration RSD	0.4 %	4.6 %	0.1 %	0.3 %
Concentration SD	0.0 ppm	0.0 ppm	0.6 ppm	0.2 ppm

	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)	Cr 267.716 {126} (Axial)
Concentration average	-0.021 ppm	0.005 ppm	-0.008 ppm	0.008 ppm
Concentration per Run 1	-0.022 ppm	0.007 ppm	-0.010 ppm	0.007 ppm
Concentration per Run 2	-0.016 ppm	0.004 ppm	-0.007 ppm	0.013 ppm
Concentration per Run 3	-0.026 ppm	0.005 ppm	-0.007 ppm	0.005 ppm
Concentration RSD	23.9 %	36.2 %	19.3 %	46.3 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Mn 257.610 {131} (Axial)	Y 360.073 {94} (Radial)	Y 224.306 {450} (Axial)	In 230.606 {446} (Axial)
Concentration average	0.705 ppm	98.211 %	95.865 %	89.695 %
Concentration per Run 1	0.708 ppm	97.998 %	95.949 %	89.758 %
Concentration per Run 2	0.699 ppm	98.348 %	95.874 %	89.705 %
Concentration per Run 3	0.707 ppm	98.288 %	95.772 %	89.622 %
Concentration RSD	0.8 %	0.2 %	0.1 %	0.1 %
Concentration SD	0.0 ppm	0.2 %	0.1 %	0.1 %

	Y 360.073 {94} (Axial)	Na 818.326 {41} (Radial)	Zn 206.200 {463} (Axial)	Cd 228.802 {447} (Axial)
Concentration average	96.410 %	68.277 ppm	0.017 ppm	0.001 ppm
Concentration per Run 1	96.020 %	69.362 ppm	0.018 ppm	0.001 ppm
Concentration per Run 2	96.932 %	67.361 ppm	0.016 ppm	0.001 ppm
Concentration per Run 3	96.279 %	68.106 ppm	0.018 ppm	0.002 ppm
Concentration RSD	0.5 %	1.5 %	5.5 %	7.7 %
Concentration SD	0.5 %	1.0 ppm	0.0 ppm	0.0 ppm

	Cu 324.754 {104} (Radial)
Concentration average	0.004 ppm
Concentration per Run 1	0.008 ppm
Concentration per Run 2	0.007 ppm
Concentration per Run 3	-0.003 ppm
Concentration RSD	154.4 %
Concentration SD	0.0 ppm

	Al 308.215 {109} (Radial)	B 249.678 {135} (Radial)	Be 313.042 {108} (Radial)	Ca 317.933 {106} (Radial)
Intensity average	39 cps	7 cps	0 cps	54,370 cps

	Ca 373.690 {90} (Radial)	Fe 259.940 {130} (Radial)	Fe 271.441 {124} (Radial)	K 766.490 {44} (Radial)
Intensity average	22,618 cps	194 cps	13 cps	1,457 cps

	Li 670.784 {50} (Radial)	Mg 279.079 {121} (Radial)	Na 589.592 {57} (Radial)	Sr 421.552 {80} (Radial)
Intensity average	880 cps	824 cps	22,708 cps	59,274 cps

	Ti 334.941 {101} (Radial)	V 292.402 {115} (Radial)	Co 228.616 {447} (Axial)	Ni 231.604 {446} (Axial)
Intensity average	54 cps	2 cps	2 cps	3 cps

	Pb 220.353 {453} (Axial)	Sn 189.989 {478} (Axial)	Tl 190.856 {477} (Axial)	As 189.042 {478} (Axial)
Intensity average	0 cps	0 cps	-3 cps	-2 cps

	Ba 233.527 {445} (Axial)	Mo 202.030 {467} (Axial)	S 182.034 {485} (Axial)	Si 251.611 {134} (Axial)
Intensity average	155 cps	15 cps	18,139 cps	17,825 cps

	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)	Cr 267.716 {126} (Axial)
Intensity average	0 cps	-2 cps	-3 cps	10 cps

	Mn 257.610 {131} (Axial)	Y 360.073 {94} (Radial)	Y 224.306 {450} (Axial)	In 230.606 {446} (Axial)
Intensity average	4,786 cps	4,844 cps	7,688 cps	2,576 cps

	Y 360.073 {94} (Axial)	Na 818.326 {41} (Radial)	Zn 206.200 {463} (Axial)	Cd 228.802 {447} (Axial)
Intensity average	127,483 cps	950 cps	8 cps	5 cps

	Cu 324.754 {104} (Radial)
Intensity average	7 cps

Comprehensive sample report

11/28/2014 10:10:14 PM

CCV 14J27642

Sample Type QC Analysis Date 11/28/2014 5:04:17 PM

Dilution Factor 1

	Al 308.215 {109} (Radial)	B 249.678 {135} (Radial)	Be 313.042 {108} (Radial)	Ca 317.933 {106} (Radial)
Concentration average	9.857 ppm	2.011 ppm	0.198 ppm	51.234 ppm
Concentration per Run 1	9.800 ppm	2.015 ppm	0.199 ppm	51.163 ppm
Concentration per Run 2	9.953 ppm	2.014 ppm	0.199 ppm	51.469 ppm
Concentration per Run 3	9.817 ppm	2.003 ppm	0.197 ppm	51.069 ppm
Concentration RSD	0.9 %	0.3 %	0.6 %	0.4 %
Concentration SD	0.1 ppm	0.0 ppm	0.0 ppm	0.2 ppm

	Ca 373.690 {90} (Radial)	Fe 259.940 {130} (Radial)	Fe 271.441 {124} (Radial)	K 766.490 {44} (Radial)
Concentration average	54.117 ppm	10.116 ppm	11.210 ppm	47.447 ppm
Concentration per Run 1	54.162 ppm	10.080 ppm	11.435 ppm	47.637 ppm
Concentration per Run 2	54.336 ppm	10.127 ppm	11.154 ppm	47.614 ppm
Concentration per Run 3	53.853 ppm	10.139 ppm	11.042 ppm	47.088 ppm
Concentration RSD	0.5 %	0.3 %	1.8 %	0.7 %
Concentration SD	0.2 ppm	0.0 ppm	0.2 ppm	0.3 ppm

	Li 670.784 {50} (Radial)	Mg 279.079 {121} (Radial)	Na 589.592 {57} (Radial)	Sr 421.552 {80} (Radial)
Concentration average	1.442 ppm	10.025 ppm	48.075 ppm	0.973 ppm
Concentration per Run 1	1.447 ppm	9.992 ppm	48.277 ppm	0.976 ppm
Concentration per Run 2	1.450 ppm	10.017 ppm	48.251 ppm	0.978 ppm
Concentration per Run 3	1.428 ppm	10.065 ppm	47.698 ppm	0.966 ppm
Concentration RSD	0.8 %	0.4 %	0.7 %	0.6 %
Concentration SD	0.0 ppm	0.0 ppm	0.3 ppm	0.0 ppm

	Ti 334.941 {101} (Radial)	V 292.402 {115} (Radial)	Co 228.616 {447} (Axial)	Ni 231.604 {446} (Axial)
Concentration average	1.013 ppm	1.007 ppm	1.016 ppm	2.044 ppm
Concentration per Run 1	1.011 ppm	1.009 ppm	1.013 ppm	2.040 ppm
Concentration per Run 2	1.019 ppm	1.013 ppm	1.016 ppm	2.042 ppm
Concentration per Run 3	1.009 ppm	1.000 ppm	1.019 ppm	2.051 ppm
Concentration RSD	0.5 %	0.7 %	0.3 %	0.3 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Pb 220.353 {453} (Axial)	Sn 189.989 {478} (Axial)	Tl 190.856 {477} (Axial)	As 189.042 {478} (Axial)
Concentration average	0.492 ppm	2.012 ppm	1.909 ppm	1.963 ppm
Concentration per Run 1	0.492 ppm	2.010 ppm	1.907 ppm	1.957 ppm
Concentration per Run 2	0.493 ppm	2.016 ppm	1.906 ppm	1.967 ppm
Concentration per Run 3	0.491 ppm	2.010 ppm	1.915 ppm	1.964 ppm
Concentration RSD	0.2 %	0.2 %	0.3 %	0.3 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Ba 233.527 {445} (Axial)	Mo 202.030 {467} (Axial)	S 182.034 {485} (Axial)	Si 251.611 {134} (Axial)
Concentration average	0.513 ppm	0.497 ppm	4.568 ppm	1.940 ppm
Concentration per Run 1	0.514 ppm	0.497 ppm	4.589 ppm	1.951 ppm
Concentration per Run 2	0.512 ppm	0.497 ppm	4.556 ppm	1.930 ppm
Concentration per Run 3	0.513 ppm	0.496 ppm	4.561 ppm	1.940 ppm
Concentration RSD	0.3 %	0.1 %	0.4 %	0.5 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)	Cr 267.716 {126} (Axial)
Concentration average	1.922 ppm	1.994 ppm	0.977 ppm	1.021 ppm
Concentration per Run 1	1.928 ppm	1.998 ppm	0.986 ppm	1.028 ppm
Concentration per Run 2	1.919 ppm	1.989 ppm	0.971 ppm	1.014 ppm
Concentration per Run 3	1.917 ppm	1.996 ppm	0.975 ppm	1.022 ppm
Concentration RSD	0.3 %	0.2 %	0.8 %	0.7 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Mn 257.610 {131} (Axial)	Y 360.073 {94} (Radial)	Y 224.306 {450} (Axial)	In 230.606 {446} (Axial)
Concentration average	1.037 ppm	95.449 %	96.523 %	88.361 %
Concentration per Run 1	1.039 ppm	95.064 %	96.194 %	88.252 %
Concentration per Run 2	1.032 ppm	95.239 %	96.822 %	88.614 %
Concentration per Run 3	1.040 ppm	96.045 %	96.553 %	88.216 %
Concentration RSD	0.4 %	0.5 %	0.3 %	0.2 %
Concentration SD	0.0 ppm	0.5 %	0.3 %	0.2 %

	Y 360.073 {94} (Axial)	Na 818.326 {41} (Radial)	Zn 206.200 {463} (Axial)	Cd 228.802 {447} (Axial)
Concentration average	94.704 %	48.994 ppm	3.049 ppm	0.524 ppm
Concentration per Run 1	94.428 %	48.952 ppm	3.046 ppm	0.525 ppm
Concentration per Run 2	94.611 %	49.251 ppm	3.049 ppm	0.523 ppm
Concentration per Run 3	95.074 %	48.780 ppm	3.051 ppm	0.523 ppm
Concentration RSD	0.4 %	0.5 %	0.1 %	0.2 %
Concentration SD	0.3 %	0.2 ppm	0.0 ppm	0.0 ppm

	Cu 324.754 {104} (Radial)
Concentration average	1.951 ppm
Concentration per Run 1	1.951 ppm
Concentration per Run 2	1.968 ppm
Concentration per Run 3	1.934 ppm
Concentration RSD	0.9 %
Concentration SD	0.0 ppm

	Al 308.215 {109} (Radial)	B 249.678 {135} (Radial)	Be 313.042 {108} (Radial)	Ca 317.933 {106} (Radial)
Intensity average	443 cps	394 cps	2,882 cps	21,366 cps

	Ca 373.690 {90} (Radial)	Fe 259.940 {130} (Radial)	Fe 271.441 {124} (Radial)	K 766.490 {44} (Radial)
Intensity average	8,839 cps	2,725 cps	179 cps	26,346 cps

	Li 670.784 {50} (Radial)	Mg 279.079 {121} (Radial)	Na 589.592 {57} (Radial)	Sr 421.552 {80} (Radial)
Intensity average	20,080 cps	389 cps	88,577 cps	29,940 cps

	Ti 334.941 {101} (Radial)	V 292.402 {115} (Radial)	Co 228.616 {447} (Axial)	Ni 231.604 {446} (Axial)
Intensity average	2,028 cps	432 cps	2,466 cps	3,490 cps

	Pb 220.353 {453} (Axial)	Sn 189.989 {478} (Axial)	Tl 190.856 {477} (Axial)	As 189.042 {478} (Axial)
Intensity average	292 cps	1,349 cps	869 cps	606 cps

	Ba 233.527 {445} (Axial)	Mo 202.030 {467} (Axial)	S 182.034 {485} (Axial)	Si 251.611 {134} (Axial)
Intensity average	2,706 cps	1,448 cps	867 cps	3,818 cps

	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)	Cr 267.716 {126} (Axial)
Intensity average	998 cps	555 cps	6,640 cps	4,824 cps

	Mn 257.610 {131} (Axial)	Y 360.073 {94} (Radial)	Y 224.306 {450} (Axial)	In 230.606 {446} (Axial)
Intensity average	38,398 cps	4,708 cps	7,741 cps	2,538 cps

	Y 360.073 {94} (Axial)	Na 818.326 {41} (Radial)	Zn 206.200 {463} (Axial)	Cd 228.802 {447} (Axial)
Intensity average	125,227 cps	4,132 cps	8,048 cps	2,207 cps

	Cu 324.754 {104} (Radial)
Intensity average	1,272 cps

Comprehensive sample report

11/28/2014 10:10:14 PM

CCB

Sample Type QC Analysis Date 11/28/2014 5:08:51 PM

Dilution Factor 1

	Al 308.215 {109} (Radial)	B 249.678 {135} (Radial)	Be 313.042 {108} (Radial)	Ca 317.933 {106} (Radial)
Concentration average	0.005 ppm	0.006 ppm	0.000 ppm	0.005 ppm
Concentration per Run 1	-0.016 ppm	0.003 ppm	0.000 ppm	0.005 ppm
Concentration per Run 2	-0.011 ppm	0.016 ppm	0.000 ppm	0.007 ppm
Concentration per Run 3	0.042 ppm	-0.001 ppm	0.000 ppm	0.004 ppm
Concentration RSD	637.5 %	150.0 %	254.5 %	31.3 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Ca 373.690 {90} (Radial)	Fe 259.940 {130} (Radial)	Fe 271.441 {124} (Radial)	K 766.490 {44} (Radial)
Concentration average	0.015 ppm	0.003 ppm	-0.034 ppm	0.016 ppm
Concentration per Run 1	0.015 ppm	0.004 ppm	0.061 ppm	0.037 ppm
Concentration per Run 2	0.030 ppm	0.001 ppm	-0.056 ppm	-0.002 ppm
Concentration per Run 3	0.000 ppm	0.004 ppm	-0.109 ppm	0.013 ppm
Concentration RSD	99.2 %	57.4 %	253.0 %	124.8 %
Concentration SD	0.0 ppm	0.0 ppm	0.1 ppm	0.0 ppm

	Li 670.784 {50} (Radial)	Mg 279.079 {121} (Radial)	Na 589.592 {57} (Radial)	Sr 421.552 {80} (Radial)
Concentration average	0.000 ppm	0.002 ppm	0.033 ppm	0.000 ppm
Concentration per Run 1	0.000 ppm	-0.034 ppm	0.037 ppm	0.000 ppm
Concentration per Run 2	0.000 ppm	-0.025 ppm	0.037 ppm	0.000 ppm
Concentration per Run 3	0.000 ppm	0.066 ppm	0.025 ppm	0.000 ppm
Concentration RSD	3,912.6 %	2,545.8 %	19.9 %	1,659.3 %
Concentration SD	0.0 ppm	0.1 ppm	0.0 ppm	0.0 ppm

	Ti 334.941 {101} (Radial)	V 292.402 {115} (Radial)	Co 228.616 {447} (Axial)	Ni 231.604 {446} (Axial)
Concentration average	0.000 ppm	0.003 ppm	0.000 ppm	0.000 ppm
Concentration per Run 1	0.001 ppm	0.005 ppm	0.001 ppm	0.000 ppm
Concentration per Run 2	-0.001 ppm	0.005 ppm	0.000 ppm	0.000 ppm
Concentration per Run 3	0.000 ppm	-0.001 ppm	0.000 ppm	0.000 ppm
Concentration RSD	1,165.1 %	116.4 %	37.9 %	297.5 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Pb 220.353 {453} (Axial)	Sn 189.989 {478} (Axial)	Tl 190.856 {477} (Axial)	As 189.042 {478} (Axial)
Concentration average	0.000 ppm	-0.001 ppm	0.002 ppm	0.002 ppm
Concentration per Run 1	0.001 ppm	-0.001 ppm	0.001 ppm	0.001 ppm
Concentration per Run 2	-0.002 ppm	-0.001 ppm	0.004 ppm	0.002 ppm
Concentration per Run 3	0.000 ppm	-0.001 ppm	0.001 ppm	0.002 ppm
Concentration RSD	626.8 %	9.7 %	85.6 %	46.2 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Ba 233.527 {445} (Axial)	Mo 202.030 {467} (Axial)	S 182.034 {485} (Axial)	Si 251.611 {134} (Axial)
Concentration average	0.000 ppm	0.000 ppm	0.007 ppm	-0.006 ppm
Concentration per Run 1	0.000 ppm	0.000 ppm	0.007 ppm	-0.005 ppm
Concentration per Run 2	0.000 ppm	0.000 ppm	0.007 ppm	-0.006 ppm
Concentration per Run 3	0.000 ppm	0.000 ppm	0.008 ppm	-0.007 ppm
Concentration RSD	464.6 %	146.4 %	3.9 %	14.6 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)	Cr 267.716 {126} (Axial)
Concentration average	-0.002 ppm	0.002 ppm	-0.001 ppm	0.000 ppm
Concentration per Run 1	-0.002 ppm	0.001 ppm	-0.001 ppm	0.001 ppm
Concentration per Run 2	-0.002 ppm	0.002 ppm	-0.001 ppm	0.000 ppm
Concentration per Run 3	0.000 ppm	0.004 ppm	-0.001 ppm	0.000 ppm
Concentration RSD	60.8 %	54.5 %	8.5 %	666.8 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Mn 257.610 {131} (Axial)	Y 360.073 {94} (Radial)	Y 224.306 {450} (Axial)	In 230.606 {446} (Axial)
Concentration average	0.000 ppm	98.240 %	102.695 %	100.783 %
Concentration per Run 1	0.000 ppm	98.974 %	102.682 %	100.628 %
Concentration per Run 2	0.000 ppm	97.397 %	102.433 %	100.472 %
Concentration per Run 3	0.000 ppm	98.348 %	102.971 %	101.249 %
Concentration RSD	10.9 %	0.8 %	0.3 %	0.4 %
Concentration SD	0.0 ppm	0.8 %	0.3 %	0.4 %

	Y 360.073 {94} (Axial)	Na 818.326 {41} (Radial)	Zn 206.200 {463} (Axial)	Cd 228.802 {447} (Axial)
Concentration average	100.492 %	-0.100 ppm	0.000 ppm	0.000 ppm
Concentration per Run 1	99.895 %	0.016 ppm	0.000 ppm	0.000 ppm
Concentration per Run 2	100.594 %	-0.258 ppm	0.000 ppm	0.000 ppm
Concentration per Run 3	100.986 %	-0.059 ppm	0.000 ppm	0.000 ppm
Concentration RSD	0.6 %	141.8 %	33.3 %	130.5 %
Concentration SD	0.6 %	0.1 ppm	0.0 ppm	0.0 ppm

	Cu 324.754 {104} (Radial)
Concentration average	0.001 ppm
Concentration per Run 1	0.001 ppm
Concentration per Run 2	-0.001 ppm
Concentration per Run 3	0.003 ppm
Concentration RSD	249.5 %
Concentration SD	0.0 ppm

	Al 308.215 {109} (Radial)	B 249.678 {135} (Radial)	Be 313.042 {108} (Radial)	Ca 317.933 {106} (Radial)
Intensity average	5 cps	1 cps	0 cps	41 cps

	Ca 373.690 {90} (Radial)	Fe 259.940 {130} (Radial)	Fe 271.441 {124} (Radial)	K 766.490 {44} (Radial)
Intensity average	13 cps	2 cps	0 cps	29 cps

	Li 670.784 {50} (Radial)	Mg 279.079 {121} (Radial)	Na 589.592 {57} (Radial)	Sr 421.552 {80} (Radial)
Intensity average	0 cps	0 cps	113 cps	-1 cps

	Ti 334.941 {101} (Radial)	V 292.402 {115} (Radial)	Co 228.616 {447} (Axial)	Ni 231.604 {446} (Axial)
Intensity average	2 cps	1 cps	-1 cps	1 cps

	Pb 220.353 {453} (Axial)	Sn 189.989 {478} (Axial)	Tl 190.856 {477} (Axial)	As 189.042 {478} (Axial)
Intensity average	-1 cps	1 cps	-3 cps	-3 cps

	Ba 233.527 {445} (Axial)	Mo 202.030 {467} (Axial)	S 182.034 {485} (Axial)	Si 251.611 {134} (Axial)
Intensity average	2 cps	3 cps	4 cps	20 cps

	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)	Cr 267.716 {126} (Axial)
Intensity average	1 cps	-1 cps	2 cps	3 cps

	Mn 257.610 {131} (Axial)	Y 360.073 {94} (Radial)	Y 224.306 {450} (Axial)	In 230.606 {446} (Axial)
Intensity average	10 cps	4,846 cps	8,236 cps	2,895 cps

	Y 360.073 {94} (Axial)	Na 818.326 {41} (Radial)	Zn 206.200 {463} (Axial)	Cd 228.802 {447} (Axial)
Intensity average	132,880 cps	-164 cps	0 cps	5 cps

	Cu 324.754 {104} (Radial)
Intensity average	7 cps

Comprehensive sample report

11/28/2014 10:10:14 PM

L735318-07 WG756747

Sample Type UNKNOWN Analysis Date 11/28/2014 5:13:16 PM

Dilution Factor 5

	Al 308.215 {109} (Radial)	B 249.678 {135} (Radial)	Be 313.042 {108} (Radial)
Concentration average	13.687 ppm	0.480 ppm	0.001 ppm
Concentration per Run 1	13.262 ppm	0.478 ppm	0.001 ppm
Concentration per Run 2	13.959 ppm	0.488 ppm	0.001 ppm
Concentration per Run 3	13.839 ppm	0.475 ppm	0.002 ppm
Concentration RSD	2.7 %	1.5 %	38.5 %
Concentration SD	0.4 ppm	0.0 ppm	0.0 ppm

	Ca 317.933 {106} (Radial)	Ca 373.690 {90} (Radial)	Fe 259.940 {130} (Radial)
Concentration average	1,256.539 ppm	1,342.362 ppm	14.557 ppm
Concentration per Run 1	1,250.607 ppm	1,332.166 ppm	14.499 ppm
Concentration per Run 2	1,256.776 ppm	1,343.193 ppm	14.564 ppm
Concentration per Run 3	1,262.234 ppm	1,351.725 ppm	14.608 ppm
Concentration RSD	0.5 %	0.7 %	0.4 %
Concentration SD	5.8 ppm	9.8 ppm	0.1 ppm

	Fe 271.441 {124} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	16.287 ppm	20.080 ppm	0.236 ppm
Concentration per Run 1	16.189 ppm	20.048 ppm	0.235 ppm
Concentration per Run 2	17.068 ppm	20.102 ppm	0.236 ppm
Concentration per Run 3	15.604 ppm	20.091 ppm	0.237 ppm
Concentration RSD	4.5 %	0.1 %	0.4 %
Concentration SD	0.7 ppm	0.0 ppm	0.0 ppm

	Mg 279.079 {121} (Radial)	Na 589.592 {57} (Radial)	Sr 421.552 {80} (Radial)
Concentration average	167.985 ppm	55.955 ppm	13.567 ppm
Concentration per Run 1	167.570 ppm	55.730 ppm	13.514 ppm
Concentration per Run 2	168.123 ppm	55.926 ppm	13.549 ppm
Concentration per Run 3	168.262 ppm	56.209 ppm	13.637 ppm
Concentration RSD	0.2 %	0.4 %	0.5 %
Concentration SD	0.4 ppm	0.2 ppm	0.1 ppm

	Ti 334.941 {101} (Radial)	V 292.402 {115} (Radial)	Co 228.616 {447} (Axial)
Concentration average	0.295 ppm	0.089 ppm	0.020 ppm
Concentration per Run 1	0.303 ppm	0.088 ppm	0.017 ppm
Concentration per Run 2	0.292 ppm	0.093 ppm	0.021 ppm
Concentration per Run 3	0.290 ppm	0.084 ppm	0.022 ppm
Concentration RSD	2.5 %	5.0 %	12.4 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm

	Ni 231.604 {446} (Axial)	Pb 220.353 {453} (Axial)	Sn 189.989 {478} (Axial)
Concentration average	0.022 ppm	0.022 ppm	-0.014 ppm
Concentration per Run 1	0.021 ppm	0.019 ppm	-0.013 ppm

	Ni 231.604 {446} (Axial)	Pb 220.353 {453} (Axial)	Sn 189.989 {478} (Axial)
Concentration per Run 2	0.026 ppm	0.022 ppm	-0.017 ppm
Concentration per Run 3	0.021 ppm	0.024 ppm	-0.013 ppm
Concentration RSD	13.4 %	9.6 %	16.1 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm

	Tl 190.856 {477} (Axial)	As 189.042 {478} (Axial)	Ba 233.527 {445} (Axial)
Concentration average	0.011 ppm	0.018 ppm	0.418 ppm
Concentration per Run 1	0.015 ppm	0.008 ppm	0.420 ppm
Concentration per Run 2	-0.003 ppm	0.023 ppm	0.418 ppm
Concentration per Run 3	0.022 ppm	0.024 ppm	0.417 ppm
Concentration RSD	117.5 %	48.5 %	0.3 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm

	Mo 202.030 {467} (Axial)	S 182.034 {485} (Axial)	Si 251.611 {134} (Axial)
Concentration average	0.024 ppm	966.937 ppm	50.311 ppm
Concentration per Run 1	0.024 ppm	967.851 ppm	50.288 ppm
Concentration per Run 2	0.026 ppm	967.215 ppm	50.084 ppm
Concentration per Run 3	0.023 ppm	965.744 ppm	50.561 ppm
Concentration RSD	4.6 %	0.1 %	0.5 %
Concentration SD	0.0 ppm	1.1 ppm	0.2 ppm

	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)
Concentration average	-0.012 ppm	0.022 ppm	-0.005 ppm
Concentration per Run 1	-0.008 ppm	0.038 ppm	-0.001 ppm
Concentration per Run 2	-0.016 ppm	0.019 ppm	-0.007 ppm
Concentration per Run 3	-0.011 ppm	0.010 ppm	-0.007 ppm
Concentration RSD	32.6 %	63.2 %	70.9 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm

	Cr 267.716 {126} (Axial)	Mn 257.610 {131} (Axial)	Y 360.073 {94} (Radial)
Concentration average	0.015 ppm	0.858 ppm	96.254 %
Concentration per Run 1	0.016 ppm	0.859 ppm	96.792 %
Concentration per Run 2	0.012 ppm	0.853 ppm	96.155 %
Concentration per Run 3	0.016 ppm	0.863 ppm	95.815 %
Concentration RSD	15.2 %	0.6 %	0.5 %
Concentration SD	0.0 ppm	0.0 ppm	0.5 %

	Y 224.306 {450} (Axial)	In 230.606 {446} (Axial)	Y 360.073 {94} (Axial)
Concentration average	94.072 %	86.709 %	94.064 %
Concentration per Run 1	94.020 %	86.607 %	93.880 %
Concentration per Run 2	94.236 %	86.885 %	94.473 %
Concentration per Run 3	93.961 %	86.636 %	93.840 %
Concentration RSD	0.2 %	0.2 %	0.4 %
Concentration SD	0.1 %	0.2 %	0.4 %

	Na 818.326 {41} (Radial)	Zn 206.200 {463} (Axial)	Cd 228.802 {447} (Axial)
Concentration average	55.333 ppm	0.064 ppm	0.000 ppm

	Na 818.326 {41} (Radial)	Zn 206.200 {463} (Axial)	Cd 228.802 {447} (Axial)
Concentration per Run 1	55.307 ppm	0.065 ppm	0.000 ppm
Concentration per Run 2	54.670 ppm	0.066 ppm	-0.001 ppm
Concentration per Run 3	56.024 ppm	0.062 ppm	0.001 ppm
Concentration RSD	1.2 %	3.3 %	961.8 %
Concentration SD	0.7 ppm	0.0 ppm	0.0 ppm

	Cu 324.754 {104} (Radial)
Concentration average	0.012 ppm
Concentration per Run 1	-0.015 ppm
Concentration per Run 2	0.021 ppm
Concentration per Run 3	0.029 ppm
Concentration RSD	200.8 %
Concentration SD	0.0 ppm

	Al 308.215 {109} (Radial)	B 249.678 {135} (Radial)	Be 313.042 {108} (Radial)	Ca 317.933 {106} (Radial)
Intensity average	115 cps	17 cps	3 cps	94,987 cps

	Ca 373.690 {90} (Radial)	Fe 259.940 {130} (Radial)	Fe 271.441 {124} (Radial)	K 766.490 {44} (Radial)
Intensity average	39,764 cps	713 cps	47 cps	2,042 cps

	Li 670.784 {50} (Radial)	Mg 279.079 {121} (Radial)	Na 589.592 {57} (Radial)	Sr 421.552 {80} (Radial)
Intensity average	596 cps	1,185 cps	18,753 cps	75,764 cps

	Ti 334.941 {101} (Radial)	V 292.402 {115} (Radial)	Co 228.616 {447} (Axial)	Ni 231.604 {446} (Axial)
Intensity average	109 cps	6 cps	7 cps	8 cps

	Pb 220.353 {453} (Axial)	Sn 189.989 {478} (Axial)	Tl 190.856 {477} (Axial)	As 189.042 {478} (Axial)
Intensity average	1 cps	0 cps	-2 cps	-2 cps

	Ba 233.527 {445} (Axial)	Mo 202.030 {467} (Axial)	S 182.034 {485} (Axial)	Si 251.611 {134} (Axial)
Intensity average	389 cps	15 cps	32,107 cps	17,591 cps

	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)	Cr 267.716 {126} (Axial)
Intensity average	1 cps	-1 cps	1 cps	15 cps

	Mn 257.610 {131} (Axial)	Y 360.073 {94} (Radial)	Y 224.306 {450} (Axial)	In 230.606 {446} (Axial)
Intensity average	5,685 cps	4,748 cps	7,544 cps	2,490 cps

	Y 360.073 {94} (Axial)	Na 818.326 {41} (Radial)	Zn 206.200 {463} (Axial)	Cd 228.802 {447} (Axial)
Intensity average	124,380 cps	726 cps	29 cps	4 cps

	Cu 324.754 {104} (Radial)
Intensity average	7 cps

Comprehensive sample report

11/28/2014 10:10:14 PM

L735318-08 WG756747

Sample Type UNKNOWN Analysis Date 11/28/2014 5:17:41 PM

Dilution Factor 5

	Al 308.215 {109} (Radial)	B 249.678 {135} (Radial)	Be 313.042 {108} (Radial)
Concentration average	10.845 ppm	0.159 ppm	0.001 ppm
Concentration per Run 1	10.758 ppm	0.171 ppm	0.001 ppm
Concentration per Run 2	11.059 ppm	0.137 ppm	0.001 ppm
Concentration per Run 3	10.718 ppm	0.170 ppm	0.000 ppm
Concentration RSD	1.7 %	12.1 %	85.0 %
Concentration SD	0.2 ppm	0.0 ppm	0.0 ppm

	Ca 317.933 {106} (Radial)	Ca 373.690 {90} (Radial)	Fe 259.940 {130} (Radial)
Concentration average	1,218.573 ppm	1,298.838 ppm	12.269 ppm
Concentration per Run 1	1,212.784 ppm	1,295.319 ppm	12.212 ppm
Concentration per Run 2	1,222.111 ppm	1,300.240 ppm	12.301 ppm
Concentration per Run 3	1,220.823 ppm	1,300.956 ppm	12.294 ppm
Concentration RSD	0.4 %	0.2 %	0.4 %
Concentration SD	5.1 ppm	3.1 ppm	0.0 ppm

	Fe 271.441 {124} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	13.478 ppm	6.966 ppm	0.221 ppm
Concentration per Run 1	12.938 ppm	6.953 ppm	0.221 ppm
Concentration per Run 2	13.411 ppm	7.006 ppm	0.220 ppm
Concentration per Run 3	14.085 ppm	6.939 ppm	0.222 ppm
Concentration RSD	4.3 %	0.5 %	0.5 %
Concentration SD	0.6 ppm	0.0 ppm	0.0 ppm

	Mg 279.079 {121} (Radial)	Na 589.592 {57} (Radial)	Sr 421.552 {80} (Radial)
Concentration average	83.766 ppm	66.353 ppm	11.081 ppm
Concentration per Run 1	83.866 ppm	66.128 ppm	11.026 ppm
Concentration per Run 2	83.765 ppm	66.340 ppm	11.097 ppm
Concentration per Run 3	83.668 ppm	66.592 ppm	11.119 ppm
Concentration RSD	0.1 %	0.4 %	0.4 %
Concentration SD	0.1 ppm	0.2 ppm	0.0 ppm

	Ti 334.941 {101} (Radial)	V 292.402 {115} (Radial)	Co 228.616 {447} (Axial)
Concentration average	0.236 ppm	0.050 ppm	0.010 ppm
Concentration per Run 1	0.236 ppm	0.088 ppm	0.011 ppm
Concentration per Run 2	0.236 ppm	0.029 ppm	0.009 ppm
Concentration per Run 3	0.237 ppm	0.033 ppm	0.010 ppm
Concentration RSD	0.2 %	65.0 %	10.1 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm

	Ni 231.604 {446} (Axial)	Pb 220.353 {453} (Axial)	Sn 189.989 {478} (Axial)
Concentration average	0.013 ppm	0.016 ppm	-0.011 ppm
Concentration per Run 1	0.012 ppm	0.018 ppm	-0.008 ppm

	Ni 231.604 {446} (Axial)	Pb 220.353 {453} (Axial)	Sn 189.989 {478} (Axial)
Concentration per Run 2	0.014 ppm	0.018 ppm	-0.010 ppm
Concentration per Run 3	0.014 ppm	0.012 ppm	-0.014 ppm
Concentration RSD	10.1 %	21.1 %	27.2 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm

	Tl 190.856 {477} (Axial)	As 189.042 {478} (Axial)	Ba 233.527 {445} (Axial)
Concentration average	0.011 ppm	0.000 ppm	0.269 ppm
Concentration per Run 1	0.021 ppm	0.008 ppm	0.267 ppm
Concentration per Run 2	0.006 ppm	0.003 ppm	0.273 ppm
Concentration per Run 3	0.005 ppm	-0.010 ppm	0.268 ppm
Concentration RSD	86.1 %	1,856.2 %	1.1 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm

	Mo 202.030 {467} (Axial)	S 182.034 {485} (Axial)	Si 251.611 {134} (Axial)
Concentration average	0.009 ppm	833.170 ppm	45.762 ppm
Concentration per Run 1	0.009 ppm	825.700 ppm	45.694 ppm
Concentration per Run 2	0.009 ppm	844.863 ppm	45.806 ppm
Concentration per Run 3	0.008 ppm	828.947 ppm	45.786 ppm
Concentration RSD	10.4 %	1.2 %	0.1 %
Concentration SD	0.0 ppm	10.3 ppm	0.1 ppm

	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)
Concentration average	-0.023 ppm	0.020 ppm	-0.010 ppm
Concentration per Run 1	-0.020 ppm	0.012 ppm	-0.011 ppm
Concentration per Run 2	-0.014 ppm	0.020 ppm	-0.010 ppm
Concentration per Run 3	-0.036 ppm	0.028 ppm	-0.010 ppm
Concentration RSD	47.8 %	39.1 %	8.6 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm

	Cr 267.716 {126} (Axial)	Mn 257.610 {131} (Axial)	Y 360.073 {94} (Radial)
Concentration average	0.022 ppm	0.433 ppm	96.366 %
Concentration per Run 1	0.018 ppm	0.430 ppm	96.210 %
Concentration per Run 2	0.019 ppm	0.435 ppm	96.173 %
Concentration per Run 3	0.028 ppm	0.433 ppm	96.716 %
Concentration RSD	24.3 %	0.6 %	0.3 %
Concentration SD	0.0 ppm	0.0 ppm	0.3 %

	Y 224.306 {450} (Axial)	In 230.606 {446} (Axial)	Y 360.073 {94} (Axial)
Concentration average	94.185 %	86.974 %	94.510 %
Concentration per Run 1	95.131 %	87.718 %	94.738 %
Concentration per Run 2	93.011 %	85.812 %	94.469 %
Concentration per Run 3	94.412 %	87.390 %	94.322 %
Concentration RSD	1.1 %	1.2 %	0.2 %
Concentration SD	1.1 %	1.0 %	0.2 %

	Na 818.326 {41} (Radial)	Zn 206.200 {463} (Axial)	Cd 228.802 {447} (Axial)
Concentration average	66.633 ppm	0.052 ppm	0.000 ppm

	Na 818.326 {41} (Radial)	Zn 206.200 {463} (Axial)	Cd 228.802 {447} (Axial)
Concentration per Run 1	66.021 ppm	0.052 ppm	0.000 ppm
Concentration per Run 2	66.850 ppm	0.054 ppm	0.000 ppm
Concentration per Run 3	67.028 ppm	0.051 ppm	0.000 ppm
Concentration RSD	0.8 %	2.8 %	470.0 %
Concentration SD	0.5 ppm	0.0 ppm	0.0 ppm

	Cu 324.754 {104} (Radial)
Concentration average	0.018 ppm
Concentration per Run 1	0.010 ppm
Concentration per Run 2	0.005 ppm
Concentration per Run 3	0.038 ppm
Concentration RSD	102.2 %
Concentration SD	0.0 ppm

	Al 308.215 {109} (Radial)	B 249.678 {135} (Radial)	Be 313.042 {108} (Radial)	Ca 317.933 {106} (Radial)
Intensity average	92 cps	6 cps	2 cps	92,227 cps

	Ca 373.690 {90} (Radial)	Fe 259.940 {130} (Radial)	Fe 271.441 {124} (Radial)	K 766.490 {44} (Radial)
Intensity average	38,521 cps	602 cps	39 cps	722 cps

	Li 670.784 {50} (Radial)	Mg 279.079 {121} (Radial)	Na 589.592 {57} (Radial)	Sr 421.552 {80} (Radial)
Intensity average	559 cps	591 cps	22,255 cps	61,953 cps

	Ti 334.941 {101} (Radial)	V 292.402 {115} (Radial)	Co 228.616 {447} (Axial)	Ni 231.604 {446} (Axial)
Intensity average	87 cps	3 cps	2 cps	5 cps

	Pb 220.353 {453} (Axial)	Sn 189.989 {478} (Axial)	Tl 190.856 {477} (Axial)	As 189.042 {478} (Axial)
Intensity average	1 cps	0 cps	-2 cps	-3 cps

	Ba 233.527 {445} (Axial)	Mo 202.030 {467} (Axial)	S 182.034 {485} (Axial)	Si 251.611 {134} (Axial)
Intensity average	251 cps	7 cps	27,696 cps	16,079 cps

	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)	Cr 267.716 {126} (Axial)
Intensity average	0 cps	-1 cps	-6 cps	21 cps

	Mn 257.610 {131} (Axial)	Y 360.073 {94} (Radial)	Y 224.306 {450} (Axial)	In 230.606 {446} (Axial)
Intensity average	2,884 cps	4,753 cps	7,553 cps	2,498 cps

	Y 360.073 {94} (Axial)	Na 818.326 {41} (Radial)	Zn 206.200 {463} (Axial)	Cd 228.802 {447} (Axial)
Intensity average	124,969 cps	906 cps	24 cps	4 cps

	Cu 324.754 {104} (Radial)
Intensity average	8 cps

Comprehensive sample report

11/28/2014 10:10:14 PM

CCV 14J27642

Sample Type QC Analysis Date 11/28/2014 6:12:15 PM

Dilution Factor 1

	Al 308.215 {109} (Radial)	B 249.678 {135} (Radial)	Be 313.042 {108} (Radial)	Ca 317.933 {106} (Radial)
Concentration average	9.630 ppm	1.972 ppm	0.192 ppm	50.498 ppm
Concentration per Run 1	9.656 ppm	2.003 ppm	0.192 ppm	50.483 ppm
Concentration per Run 2	9.647 ppm	1.964 ppm	0.192 ppm	50.574 ppm
Concentration per Run 3	9.586 ppm	1.949 ppm	0.192 ppm	50.438 ppm
Concentration RSD	0.4 %	1.4 %	0.1 %	0.1 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.1 ppm

	Ca 373.690 {90} (Radial)	Fe 259.940 {130} (Radial)	Fe 271.441 {124} (Radial)	K 766.490 {44} (Radial)
Concentration average	53.541 ppm	9.971 ppm	11.154 ppm	47.126 ppm
Concentration per Run 1	53.803 ppm	9.979 ppm	11.136 ppm	47.304 ppm
Concentration per Run 2	53.465 ppm	9.979 ppm	11.117 ppm	47.077 ppm
Concentration per Run 3	53.353 ppm	9.955 ppm	11.210 ppm	46.995 ppm
Concentration RSD	0.4 %	0.1 %	0.4 %	0.3 %
Concentration SD	0.2 ppm	0.0 ppm	0.0 ppm	0.2 ppm

	Li 670.784 {50} (Radial)	Mg 279.079 {121} (Radial)	Na 589.592 {57} (Radial)	Sr 421.552 {80} (Radial)
Concentration average	1.443 ppm	9.835 ppm	48.421 ppm	0.971 ppm
Concentration per Run 1	1.453 ppm	9.785 ppm	48.554 ppm	0.974 ppm
Concentration per Run 2	1.434 ppm	9.805 ppm	48.327 ppm	0.969 ppm
Concentration per Run 3	1.443 ppm	9.914 ppm	48.383 ppm	0.969 ppm
Concentration RSD	0.7 %	0.7 %	0.2 %	0.3 %
Concentration SD	0.0 ppm	0.1 ppm	0.1 ppm	0.0 ppm

	Ti 334.941 {101} (Radial)	V 292.402 {115} (Radial)	Co 228.616 {447} (Axial)	Ni 231.604 {446} (Axial)
Concentration average	1.007 ppm	0.991 ppm	1.007 ppm	2.044 ppm
Concentration per Run 1	1.005 ppm	0.994 ppm	1.008 ppm	2.048 ppm
Concentration per Run 2	1.013 ppm	0.986 ppm	1.003 ppm	2.038 ppm
Concentration per Run 3	1.003 ppm	0.993 ppm	1.008 ppm	2.046 ppm
Concentration RSD	0.5 %	0.5 %	0.3 %	0.3 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Pb 220.353 {453} (Axial)	Sn 189.989 {478} (Axial)	Tl 190.856 {477} (Axial)	As 189.042 {478} (Axial)
Concentration average	0.490 ppm	2.004 ppm	1.888 ppm	1.952 ppm
Concentration per Run 1	0.492 ppm	2.012 ppm	1.887 ppm	1.953 ppm
Concentration per Run 2	0.489 ppm	1.996 ppm	1.887 ppm	1.950 ppm
Concentration per Run 3	0.489 ppm	2.004 ppm	1.890 ppm	1.952 ppm
Concentration RSD	0.3 %	0.4 %	0.1 %	0.1 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Ba 233.527 {445} (Axial)	Mo 202.030 {467} (Axial)	S 182.034 {485} (Axial)	Si 251.611 {134} (Axial)
Concentration average	0.508 ppm	0.496 ppm	4.514 ppm	1.951 ppm
Concentration per Run 1	0.508 ppm	0.497 ppm	4.530 ppm	1.968 ppm
Concentration per Run 2	0.506 ppm	0.495 ppm	4.504 ppm	1.941 ppm
Concentration per Run 3	0.509 ppm	0.496 ppm	4.510 ppm	1.945 ppm
Concentration RSD	0.3 %	0.2 %	0.3 %	0.7 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)	Cr 267.716 {126} (Axial)
Concentration average	1.908 ppm	1.985 ppm	0.986 ppm	1.022 ppm
Concentration per Run 1	1.906 ppm	1.992 ppm	0.992 ppm	1.027 ppm
Concentration per Run 2	1.907 ppm	1.983 ppm	0.981 ppm	1.023 ppm
Concentration per Run 3	1.911 ppm	1.982 ppm	0.985 ppm	1.016 ppm
Concentration RSD	0.1 %	0.3 %	0.6 %	0.5 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Mn 257.610 {131} (Axial)	Y 360.073 {94} (Radial)	Y 224.306 {450} (Axial)	In 230.606 {446} (Axial)
Concentration average	1.053 ppm	97.244 %	96.040 %	88.439 %
Concentration per Run 1	1.056 ppm	96.915 %	96.152 %	88.586 %
Concentration per Run 2	1.053 ppm	97.034 %	96.087 %	88.467 %
Concentration per Run 3	1.049 ppm	97.782 %	95.881 %	88.265 %
Concentration RSD	0.4 %	0.5 %	0.1 %	0.2 %
Concentration SD	0.0 ppm	0.5 %	0.1 %	0.2 %

	Y 360.073 {94} (Axial)	Na 818.326 {41} (Radial)	Zn 206.200 {463} (Axial)	Cd 228.802 {447} (Axial)
Concentration average	94.148 %	48.457 ppm	3.028 ppm	0.524 ppm
Concentration per Run 1	93.668 %	48.450 ppm	3.037 ppm	0.525 ppm
Concentration per Run 2	94.488 %	48.543 ppm	3.020 ppm	0.523 ppm
Concentration per Run 3	94.287 %	48.378 ppm	3.027 ppm	0.524 ppm
Concentration RSD	0.5 %	0.2 %	0.3 %	0.1 %
Concentration SD	0.4 %	0.1 ppm	0.0 ppm	0.0 ppm

	Cu 324.754 {104} (Radial)
Concentration average	1.926 ppm
Concentration per Run 1	1.931 ppm
Concentration per Run 2	1.923 ppm
Concentration per Run 3	1.922 ppm
Concentration RSD	0.3 %
Concentration SD	0.0 ppm

	Al 308.215 {109} (Radial)	B 249.678 {135} (Radial)	Be 313.042 {108} (Radial)	Ca 317.933 {106} (Radial)
Intensity average	441 cps	394 cps	2,846 cps	21,456 cps

	Ca 373.690 {90} (Radial)	Fe 259.940 {130} (Radial)	Fe 271.441 {124} (Radial)	K 766.490 {44} (Radial)
Intensity average	8,910 cps	2,737 cps	181 cps	26,660 cps

	Li 670.784 {50} (Radial)	Mg 279.079 {121} (Radial)	Na 589.592 {57} (Radial)	Sr 421.552 {80} (Radial)
Intensity average	20,478 cps	389 cps	90,892 cps	30,421 cps

	Ti 334.941 {101} (Radial)	V 292.402 {115} (Radial)	Co 228.616 {447} (Axial)	Ni 231.604 {446} (Axial)
Intensity average	2,054 cps	433 cps	2,445 cps	3,493 cps

	Pb 220.353 {453} (Axial)	Sn 189.989 {478} (Axial)	Tl 190.856 {477} (Axial)	As 189.042 {478} (Axial)
Intensity average	291 cps	1,345 cps	860 cps	600 cps

	Ba 233.527 {445} (Axial)	Mo 202.030 {467} (Axial)	S 182.034 {485} (Axial)	Si 251.611 {134} (Axial)
Intensity average	2,664 cps	1,438 cps	853 cps	3,817 cps

	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)	Cr 267.716 {126} (Axial)
Intensity average	987 cps	550 cps	6,660 cps	4,798 cps

	Mn 257.610 {131} (Axial)	Y 360.073 {94} (Radial)	Y 224.306 {450} (Axial)	In 230.606 {446} (Axial)
Intensity average	38,747 cps	4,796 cps	7,702 cps	2,540 cps

	Y 360.073 {94} (Axial)	Na 818.326 {41} (Radial)	Zn 206.200 {463} (Axial)	Cd 228.802 {447} (Axial)
Intensity average	124,491 cps	4,162 cps	7,954 cps	2,197 cps

	Cu 324.754 {104} (Radial)
Intensity average	1,280 cps

Comprehensive sample report

11/28/2014 10:10:14 PM

CCB

Sample Type QC Analysis Date 11/28/2014 6:16:50 PM

Dilution Factor 1

	Al 308.215 {109} (Radial)	B 249.678 {135} (Radial)	Be 313.042 {108} (Radial)	Ca 317.933 {106} (Radial)
Concentration average	-0.022 ppm	0.004 ppm	0.000 ppm	0.010 ppm
Concentration per Run 1	-0.052 ppm	0.010 ppm	0.000 ppm	0.012 ppm
Concentration per Run 2	-0.005 ppm	-0.002 ppm	0.000 ppm	0.009 ppm
Concentration per Run 3	-0.011 ppm	0.005 ppm	0.000 ppm	0.007 ppm
Concentration RSD	112.9 %	138.2 %	133.3 %	24.2 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Ca 373.690 {90} (Radial)	Fe 259.940 {130} (Radial)	Fe 271.441 {124} (Radial)	K 766.490 {44} (Radial)
Concentration average	0.021 ppm	0.001 ppm	-0.002 ppm	0.029 ppm
Concentration per Run 1	0.034 ppm	-0.001 ppm	-0.014 ppm	0.021 ppm
Concentration per Run 2	0.023 ppm	0.002 ppm	0.045 ppm	0.017 ppm
Concentration per Run 3	0.005 ppm	0.002 ppm	-0.037 ppm	0.049 ppm
Concentration RSD	69.2 %	173.3 %	2,180.8 %	60.1 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Li 670.784 {50} (Radial)	Mg 279.079 {121} (Radial)	Na 589.592 {57} (Radial)	Sr 421.552 {80} (Radial)
Concentration average	0.000 ppm	-0.002 ppm	0.001 ppm	0.000 ppm
Concentration per Run 1	-0.001 ppm	0.046 ppm	-0.002 ppm	0.000 ppm
Concentration per Run 2	0.000 ppm	-0.034 ppm	0.006 ppm	0.000 ppm
Concentration per Run 3	0.000 ppm	-0.017 ppm	0.000 ppm	0.000 ppm
Concentration RSD	15,777.9 %	2,691.8 %	359.6 %	153.5 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Ti 334.941 {101} (Radial)	V 292.402 {115} (Radial)	Co 228.616 {447} (Axial)	Ni 231.604 {446} (Axial)
Concentration average	-0.001 ppm	0.002 ppm	0.000 ppm	0.000 ppm
Concentration per Run 1	-0.002 ppm	0.007 ppm	0.000 ppm	0.000 ppm
Concentration per Run 2	-0.001 ppm	0.001 ppm	0.000 ppm	0.000 ppm
Concentration per Run 3	-0.002 ppm	0.000 ppm	0.000 ppm	0.000 ppm
Concentration RSD	16.2 %	141.8 %	47.7 %	947.4 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Pb 220.353 {453} (Axial)	Sn 189.989 {478} (Axial)	Tl 190.856 {477} (Axial)	As 189.042 {478} (Axial)
Concentration average	0.000 ppm	0.000 ppm	0.001 ppm	-0.001 ppm
Concentration per Run 1	0.000 ppm	-0.001 ppm	0.000 ppm	-0.002 ppm
Concentration per Run 2	0.001 ppm	0.001 ppm	0.002 ppm	0.000 ppm
Concentration per Run 3	-0.001 ppm	-0.001 ppm	0.001 ppm	0.000 ppm
Concentration RSD	3,076.4 %	278.6 %	77.6 %	130.3 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Ba 233.527 {445} (Axial)	Mo 202.030 {467} (Axial)	S 182.034 {485} (Axial)	Si 251.611 {134} (Axial)
Concentration average	0.000 ppm	0.000 ppm	0.013 ppm	-0.009 ppm
Concentration per Run 1	0.000 ppm	0.000 ppm	0.013 ppm	-0.008 ppm
Concentration per Run 2	0.000 ppm	0.000 ppm	0.014 ppm	-0.009 ppm
Concentration per Run 3	0.000 ppm	0.000 ppm	0.013 ppm	-0.009 ppm
Concentration RSD	646.3 %	191.8 %	1.6 %	4.7 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)	Cr 267.716 {126} (Axial)
Concentration average	0.000 ppm	0.001 ppm	-0.001 ppm	0.000 ppm
Concentration per Run 1	0.001 ppm	0.001 ppm	0.000 ppm	0.001 ppm
Concentration per Run 2	0.000 ppm	0.000 ppm	-0.001 ppm	0.000 ppm
Concentration per Run 3	-0.001 ppm	0.001 ppm	-0.001 ppm	0.000 ppm
Concentration RSD	288.7 %	124.2 %	77.0 %	205.1 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Mn 257.610 {131} (Axial)	Y 360.073 {94} (Radial)	Y 224.306 {450} (Axial)	In 230.606 {446} (Axial)
Concentration average	0.000 ppm	99.363 %	103.277 %	102.197 %
Concentration per Run 1	0.000 ppm	98.692 %	103.572 %	102.401 %
Concentration per Run 2	0.000 ppm	99.498 %	102.933 %	101.930 %
Concentration per Run 3	0.000 ppm	99.898 %	103.327 %	102.259 %
Concentration RSD	10.4 %	0.6 %	0.3 %	0.2 %
Concentration SD	0.0 ppm	0.6 %	0.3 %	0.2 %

	Y 360.073 {94} (Axial)	Na 818.326 {41} (Radial)	Zn 206.200 {463} (Axial)	Cd 228.802 {447} (Axial)
Concentration average	102.005 %	-0.108 ppm	0.000 ppm	0.000 ppm
Concentration per Run 1	100.297 %	-0.132 ppm	0.000 ppm	0.000 ppm
Concentration per Run 2	100.466 %	-0.158 ppm	0.000 ppm	0.000 ppm
Concentration per Run 3	105.252 %	-0.032 ppm	0.000 ppm	0.000 ppm
Concentration RSD	2.8 %	62.1 %	48.7 %	153.0 %
Concentration SD	2.8 %	0.1 ppm	0.0 ppm	0.0 ppm

	Cu 324.754 {104} (Radial)
Concentration average	0.001 ppm
Concentration per Run 1	0.000 ppm
Concentration per Run 2	0.001 ppm
Concentration per Run 3	0.002 ppm
Concentration RSD	138.4 %
Concentration SD	0.0 ppm

	Al 308.215 {109} (Radial)	B 249.678 {135} (Radial)	Be 313.042 {108} (Radial)	Ca 317.933 {106} (Radial)
Intensity average	4 cps	1 cps	0 cps	43 cps

	Ca 373.690 {90} (Radial)	Fe 259.940 {130} (Radial)	Fe 271.441 {124} (Radial)	K 766.490 {44} (Radial)
Intensity average	14 cps	2 cps	0 cps	37 cps

	Li 670.784 {50} (Radial)	Mg 279.079 {121} (Radial)	Na 589.592 {57} (Radial)	Sr 421.552 {80} (Radial)
Intensity average	0 cps	0 cps	53 cps	1 cps

	Ti 334.941 {101} (Radial)	V 292.402 {115} (Radial)	Co 228.616 {447} (Axial)	Ni 231.604 {446} (Axial)
Intensity average	-1 cps	0 cps	-1 cps	1 cps

	Pb 220.353 {453} (Axial)	Sn 189.989 {478} (Axial)	Tl 190.856 {477} (Axial)	As 189.042 {478} (Axial)
Intensity average	-1 cps	2 cps	-3 cps	-4 cps

	Ba 233.527 {445} (Axial)	Mo 202.030 {467} (Axial)	S 182.034 {485} (Axial)	Si 251.611 {134} (Axial)
Intensity average	2 cps	3 cps	6 cps	14 cps

	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)	Cr 267.716 {126} (Axial)
Intensity average	2 cps	-2 cps	2 cps	4 cps

	Mn 257.610 {131} (Axial)	Y 360.073 {94} (Radial)	Y 224.306 {450} (Axial)	In 230.606 {446} (Axial)
Intensity average	10 cps	4,901 cps	8,282 cps	2,935 cps

	Y 360.073 {94} (Axial)	Na 818.326 {41} (Radial)	Zn 206.200 {463} (Axial)	Cd 228.802 {447} (Axial)
Intensity average	134,881 cps	-167 cps	0 cps	5 cps

	Cu 324.754 {104} (Radial)
Intensity average	7 cps

Comprehensive sample report

11/28/2014 10:10:14 PM

CCVLL 14G16199

Sample Type QC Analysis Date 11/28/2014 8:09:11 PM

Dilution Factor 1

	Al 308.215 {109} (Radial)	B 249.678 {135} (Radial)	Be 313.042 {108} (Radial)	Ca 317.933 {106} (Radial)
Concentration average	0.073 ppm	0.190 ppm	0.002 ppm	0.499 ppm
Concentration per Run 1	0.110 ppm	0.190 ppm	0.002 ppm	0.494 ppm
Concentration per Run 2	0.020 ppm	0.189 ppm	0.002 ppm	0.499 ppm
Concentration per Run 3	0.091 ppm	0.190 ppm	0.002 ppm	0.504 ppm
Concentration RSD	64.2 %	0.1 %	4.4 %	1.0 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Ca 373.690 {90} (Radial)	Fe 259.940 {130} (Radial)	Fe 271.441 {124} (Radial)	K 766.490 {44} (Radial)
Concentration average	0.540 ppm	0.102 ppm	0.036 ppm	0.487 ppm
Concentration per Run 1	0.531 ppm	0.101 ppm	0.064 ppm	0.486 ppm
Concentration per Run 2	0.550 ppm	0.100 ppm	0.003 ppm	0.481 ppm
Concentration per Run 3	0.538 ppm	0.104 ppm	0.041 ppm	0.494 ppm
Concentration RSD	1.8 %	2.1 %	85.3 %	1.3 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Li 670.784 {50} (Radial)	Mg 279.079 {121} (Radial)	Na 589.592 {57} (Radial)	Sr 421.552 {80} (Radial)
Concentration average	0.014 ppm	0.094 ppm	0.484 ppm	0.010 ppm
Concentration per Run 1	0.014 ppm	0.080 ppm	0.485 ppm	0.010 ppm
Concentration per Run 2	0.014 ppm	0.086 ppm	0.481 ppm	0.010 ppm
Concentration per Run 3	0.014 ppm	0.116 ppm	0.488 ppm	0.010 ppm
Concentration RSD	0.9 %	20.5 %	0.7 %	1.0 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Ti 334.941 {101} (Radial)	V 292.402 {115} (Radial)	Co 228.616 {447} (Axial)	Ni 231.604 {446} (Axial)
Concentration average	0.009 ppm	0.011 ppm	0.010 ppm	0.020 ppm
Concentration per Run 1	0.008 ppm	0.010 ppm	0.010 ppm	0.019 ppm
Concentration per Run 2	0.010 ppm	0.010 ppm	0.010 ppm	0.020 ppm
Concentration per Run 3	0.010 ppm	0.014 ppm	0.010 ppm	0.020 ppm
Concentration RSD	9.8 %	19.7 %	1.2 %	1.6 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Pb 220.353 {453} (Axial)	Sn 189.989 {478} (Axial)	Tl 190.856 {477} (Axial)	As 189.042 {478} (Axial)
Concentration average	0.005 ppm	0.018 ppm	0.020 ppm	0.019 ppm
Concentration per Run 1	0.005 ppm	0.018 ppm	0.020 ppm	0.019 ppm
Concentration per Run 2	0.005 ppm	0.018 ppm	0.019 ppm	0.019 ppm
Concentration per Run 3	0.005 ppm	0.019 ppm	0.020 ppm	0.019 ppm
Concentration RSD	7.2 %	4.9 %	2.6 %	0.6 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Ba 233.527 {445} (Axial)	Mo 202.030 {467} (Axial)	S 182.034 {485} (Axial)	Si 251.611 {134} (Axial)
Concentration average	0.005 ppm	0.005 ppm	4.214 ppm	0.174 ppm
Concentration per Run 1	0.005 ppm	0.005 ppm	4.222 ppm	0.169 ppm
Concentration per Run 2	0.005 ppm	0.005 ppm	4.218 ppm	0.176 ppm
Concentration per Run 3	0.005 ppm	0.005 ppm	4.203 ppm	0.176 ppm
Concentration RSD	0.6 %	0.5 %	0.2 %	2.2 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)	Cr 267.716 {126} (Axial)
Concentration average	0.018 ppm	0.018 ppm	0.008 ppm	0.011 ppm
Concentration per Run 1	0.019 ppm	0.016 ppm	0.008 ppm	0.011 ppm
Concentration per Run 2	0.018 ppm	0.017 ppm	0.008 ppm	0.010 ppm
Concentration per Run 3	0.018 ppm	0.020 ppm	0.008 ppm	0.010 ppm
Concentration RSD	3.0 %	11.2 %	2.3 %	4.7 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Mn 257.610 {131} (Axial)	Y 360.073 {94} (Radial)	Y 224.306 {450} (Axial)	In 230.606 {446} (Axial)
Concentration average	0.011 ppm	102.110 %	102.498 %	101.408 %
Concentration per Run 1	0.010 ppm	101.848 %	102.405 %	101.274 %
Concentration per Run 2	0.011 ppm	102.661 %	102.431 %	101.353 %
Concentration per Run 3	0.011 ppm	101.820 %	102.657 %	101.595 %
Concentration RSD	2.6 %	0.5 %	0.1 %	0.2 %
Concentration SD	0.0 ppm	0.5 %	0.1 %	0.2 %

	Y 360.073 {94} (Axial)	Na 818.326 {41} (Radial)	Zn 206.200 {463} (Axial)	Cd 228.802 {447} (Axial)
Concentration average	101.414 %	0.636 ppm	0.031 ppm	0.005 ppm
Concentration per Run 1	103.188 %	0.621 ppm	0.031 ppm	0.005 ppm
Concentration per Run 2	100.651 %	0.672 ppm	0.031 ppm	0.005 ppm
Concentration per Run 3	100.401 %	0.617 ppm	0.031 ppm	0.005 ppm
Concentration RSD	1.5 %	4.8 %	0.2 %	4.5 %
Concentration SD	1.5 %	0.0 ppm	0.0 ppm	0.0 ppm

	Cu 324.754 {104} (Radial)
Concentration average	0.023 ppm
Concentration per Run 1	0.025 ppm
Concentration per Run 2	0.020 ppm
Concentration per Run 3	0.025 ppm
Concentration RSD	11.8 %
Concentration SD	0.0 ppm

	Al 308.215 {109} (Radial)	B 249.678 {135} (Radial)	Be 313.042 {108} (Radial)	Ca 317.933 {106} (Radial)
Intensity average	8 cps	40 cps	30 cps	262 cps

	Ca 373.690 {90} (Radial)	Fe 259.940 {130} (Radial)	Fe 271.441 {124} (Radial)	K 766.490 {44} (Radial)
Intensity average	105 cps	31 cps	1 cps	310 cps

	Li 670.784 {50} (Radial)	Mg 279.079 {121} (Radial)	Na 589.592 {57} (Radial)	Sr 421.552 {80} (Radial)
Intensity average	214 cps	4 cps	1,007 cps	322 cps

	Ti 334.941 {101} (Radial)	V 292.402 {115} (Radial)	Co 228.616 {447} (Axial)	Ni 231.604 {446} (Axial)
Intensity average	22 cps	4 cps	26 cps	40 cps

	Pb 220.353 {453} (Axial)	Sn 189.989 {478} (Axial)	Tl 190.856 {477} (Axial)	As 189.042 {478} (Axial)
Intensity average	2 cps	16 cps	7 cps	3 cps

	Ba 233.527 {445} (Axial)	Mo 202.030 {467} (Axial)	S 182.034 {485} (Axial)	Si 251.611 {134} (Axial)
Intensity average	32 cps	19 cps	850 cps	396 cps

	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)	Cr 267.716 {126} (Axial)
Intensity average	12 cps	3 cps	66 cps	56 cps

	Mn 257.610 {131} (Axial)	Y 360.073 {94} (Radial)	Y 224.306 {450} (Axial)	In 230.606 {446} (Axial)
Intensity average	428 cps	5,036 cps	8,220 cps	2,913 cps

	Y 360.073 {94} (Axial)	Na 818.326 {41} (Radial)	Zn 206.200 {463} (Axial)	Cd 228.802 {447} (Axial)
Intensity average	134,099 cps	-102 cps	85 cps	27 cps

	Cu 324.754 {104} (Radial)
Intensity average	23 cps

Comprehensive sample report

11/28/2014 10:10:14 PM

ICSA 14J10823

Sample Type QC Analysis Date 11/28/2014 8:13:40 PM

Dilution Factor 1

	Al 308.215 {109} (Radial)	B 249.678 {135} (Radial)	Be 313.042 {108} (Radial)	Ca 317.933 {106} (Radial)
Concentration average	473.819 ppm	0.000 ppm	0.000 ppm	449.757 ppm
Concentration per Run 1	471.334 ppm	-0.011 ppm	0.000 ppm	447.268 ppm
Concentration per Run 2	474.295 ppm	0.001 ppm	0.000 ppm	451.507 ppm
Concentration per Run 3	475.826 ppm	0.009 ppm	0.000 ppm	450.497 ppm
Concentration RSD	0.5 %	2,258.1 %	69.4 %	0.5 %
Concentration SD	2.3 ppm	0.0 ppm	0.0 ppm	2.2 ppm

	Ca 373.690 {90} (Radial)	Fe 259.940 {130} (Radial)	Fe 271.441 {124} (Radial)	K 766.490 {44} (Radial)
Concentration average	495.397 ppm	174.715 ppm	198.043 ppm	0.034 ppm
Concentration per Run 1	491.446 ppm	173.957 ppm	196.734 ppm	0.022 ppm
Concentration per Run 2	497.129 ppm	175.015 ppm	198.652 ppm	0.038 ppm
Concentration per Run 3	497.615 ppm	175.175 ppm	198.743 ppm	0.042 ppm
Concentration RSD	0.7 %	0.4 %	0.6 %	31.7 %
Concentration SD	3.4 ppm	0.7 ppm	1.1 ppm	0.0 ppm

	Li 670.784 {50} (Radial)	Mg 279.079 {121} (Radial)	Na 589.592 {57} (Radial)	Sr 421.552 {80} (Radial)
Concentration average	0.004 ppm	510.622 ppm	0.031 ppm	0.007 ppm
Concentration per Run 1	0.004 ppm	507.188 ppm	0.030 ppm	0.007 ppm
Concentration per Run 2	0.004 ppm	512.669 ppm	0.028 ppm	0.007 ppm
Concentration per Run 3	0.003 ppm	512.009 ppm	0.036 ppm	0.007 ppm
Concentration RSD	15.0 %	0.6 %	13.4 %	1.1 %
Concentration SD	0.0 ppm	3.0 ppm	0.0 ppm	0.0 ppm

	Ti 334.941 {101} (Radial)	V 292.402 {115} (Radial)	Co 228.616 {447} (Axial)	Ni 231.604 {446} (Axial)
Concentration average	-0.001 ppm	0.006 ppm	0.001 ppm	-0.019 ppm
Concentration per Run 1	0.000 ppm	0.008 ppm	0.001 ppm	-0.019 ppm
Concentration per Run 2	-0.001 ppm	0.008 ppm	0.001 ppm	-0.019 ppm
Concentration per Run 3	-0.002 ppm	0.003 ppm	0.001 ppm	-0.019 ppm
Concentration RSD	109.9 %	40.4 %	47.8 %	1.9 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Pb 220.353 {453} (Axial)	Sn 189.989 {478} (Axial)	Tl 190.856 {477} (Axial)	As 189.042 {478} (Axial)
Concentration average	-0.023 ppm	0.000 ppm	0.002 ppm	-0.022 ppm
Concentration per Run 1	-0.022 ppm	-0.001 ppm	0.002 ppm	-0.021 ppm
Concentration per Run 2	-0.025 ppm	0.000 ppm	0.003 ppm	-0.021 ppm
Concentration per Run 3	-0.023 ppm	0.001 ppm	0.001 ppm	-0.025 ppm
Concentration RSD	5.0 %	780.5 %	42.2 %	10.0 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Ba 233.527 {445} (Axial)	Mo 202.030 {467} (Axial)	S 182.034 {485} (Axial)	Si 251.611 {134} (Axial)
Concentration average	0.002 ppm	0.000 ppm	0.006 ppm	-0.013 ppm
Concentration per Run 1	0.002 ppm	-0.001 ppm	0.007 ppm	-0.013 ppm
Concentration per Run 2	0.002 ppm	0.000 ppm	0.008 ppm	-0.013 ppm
Concentration per Run 3	0.002 ppm	0.000 ppm	0.002 ppm	-0.013 ppm
Concentration RSD	3.1 %	76.9 %	57.6 %	2.6 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)	Cr 267.716 {126} (Axial)
Concentration average	-0.006 ppm	0.006 ppm	-0.001 ppm	0.001 ppm
Concentration per Run 1	-0.011 ppm	0.003 ppm	-0.002 ppm	0.001 ppm
Concentration per Run 2	-0.003 ppm	0.002 ppm	-0.001 ppm	0.001 ppm
Concentration per Run 3	-0.004 ppm	0.013 ppm	-0.001 ppm	0.001 ppm
Concentration RSD	70.1 %	103.3 %	24.8 %	22.8 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Mn 257.610 {131} (Axial)	Y 360.073 {94} (Radial)	Y 224.306 {450} (Axial)	In 230.606 {446} (Axial)
Concentration average	-0.005 ppm	97.604 %	87.543 %	73.033 %
Concentration per Run 1	-0.004 ppm	97.887 %	87.016 %	72.535 %
Concentration per Run 2	-0.005 ppm	97.368 %	87.450 %	73.203 %
Concentration per Run 3	-0.005 ppm	97.558 %	88.162 %	73.359 %
Concentration RSD	2.4 %	0.3 %	0.7 %	0.6 %
Concentration SD	0.0 ppm	0.3 %	0.6 %	0.4 %

	Y 360.073 {94} (Axial)	Na 818.326 {41} (Radial)	Zn 206.200 {463} (Axial)	Cd 228.802 {447} (Axial)
Concentration average	86.048 %	0.248 ppm	0.004 ppm	-0.003 ppm
Concentration per Run 1	86.045 %	0.327 ppm	0.004 ppm	-0.003 ppm
Concentration per Run 2	86.759 %	0.140 ppm	0.004 ppm	-0.003 ppm
Concentration per Run 3	85.340 %	0.277 ppm	0.004 ppm	-0.003 ppm
Concentration RSD	0.8 %	39.0 %	2.7 %	0.8 %
Concentration SD	0.7 %	0.1 ppm	0.0 ppm	0.0 ppm

	Cu 324.754 {104} (Radial)
Concentration average	0.003 ppm
Concentration per Run 1	0.007 ppm
Concentration per Run 2	0.003 ppm
Concentration per Run 3	-0.001 ppm
Concentration RSD	142.8 %
Concentration SD	0.0 ppm

	Al 308.215 {109} (Radial)	B 249.678 {135} (Radial)	Be 313.042 {108} (Radial)	Ca 317.933 {106} (Radial)
Intensity average	21,577 cps	0 cps	1 cps	191,497 cps

	Ca 373.690 {90} (Radial)	Fe 259.940 {130} (Radial)	Fe 271.441 {124} (Radial)	K 766.490 {44} (Radial)
Intensity average	82,661 cps	48,116 cps	3,227 cps	40 cps

	Li 670.784 {50} (Radial)	Mg 279.079 {121} (Radial)	Na 589.592 {57} (Radial)	Sr 421.552 {80} (Radial)
Intensity average	55 cps	20,290 cps	109 cps	228 cps

	Ti 334.941 {101} (Radial)	V 292.402 {115} (Radial)	Co 228.616 {447} (Axial)	Ni 231.604 {446} (Axial)
Intensity average	-1 cps	2 cps	1 cps	-26 cps

	Pb 220.353 {453} (Axial)	Sn 189.989 {478} (Axial)	Tl 190.856 {477} (Axial)	As 189.042 {478} (Axial)
Intensity average	-12 cps	1 cps	-2 cps	-9 cps

	Ba 233.527 {445} (Axial)	Mo 202.030 {467} (Axial)	S 182.034 {485} (Axial)	Si 251.611 {134} (Axial)
Intensity average	13 cps	1 cps	3 cps	5 cps

	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)	Cr 267.716 {126} (Axial)
Intensity average	-1 cps	0 cps	-2 cps	7 cps

	Mn 257.610 {131} (Axial)	Y 360.073 {94} (Radial)	Y 224.306 {450} (Axial)	In 230.606 {446} (Axial)
Intensity average	-151 cps	4,814 cps	7,020 cps	2,098 cps

	Y 360.073 {94} (Axial)	Na 818.326 {41} (Radial)	Zn 206.200 {463} (Axial)	Cd 228.802 {447} (Axial)
Intensity average	113,780 cps	-132 cps	10 cps	-7 cps

	Cu 324.754 {104} (Radial)
Intensity average	8 cps

Comprehensive sample report

11/28/2014 10:10:14 PM

ICSAB 14J10824

Sample Type QC Analysis Date 11/28/2014 8:17:56 PM

Dilution Factor 1

	Al 308.215 {109} (Radial)	B 249.678 {135} (Radial)	Be 313.042 {108} (Radial)	Ca 317.933 {106} (Radial)
Concentration average	474.545 ppm	0.965 ppm	0.452 ppm	448.990 ppm
Concentration per Run 1	474.261 ppm	0.967 ppm	0.452 ppm	448.108 ppm
Concentration per Run 2	471.715 ppm	0.958 ppm	0.450 ppm	447.712 ppm
Concentration per Run 3	477.659 ppm	0.969 ppm	0.455 ppm	451.149 ppm
Concentration RSD	0.6 %	0.6 %	0.5 %	0.4 %
Concentration SD	3.0 ppm	0.0 ppm	0.0 ppm	1.9 ppm

	Ca 373.690 {90} (Radial)	Fe 259.940 {130} (Radial)	Fe 271.441 {124} (Radial)	K 766.490 {44} (Radial)
Concentration average	496.802 ppm	174.400 ppm	197.589 ppm	0.044 ppm
Concentration per Run 1	496.417 ppm	173.997 ppm	196.390 ppm	0.069 ppm
Concentration per Run 2	496.703 ppm	173.531 ppm	197.270 ppm	0.019 ppm
Concentration per Run 3	497.286 ppm	175.671 ppm	199.107 ppm	0.045 ppm
Concentration RSD	0.1 %	0.6 %	0.7 %	57.5 %
Concentration SD	0.4 ppm	1.1 ppm	1.4 ppm	0.0 ppm

	Li 670.784 {50} (Radial)	Mg 279.079 {121} (Radial)	Na 589.592 {57} (Radial)	Sr 421.552 {80} (Radial)
Concentration average	0.004 ppm	510.238 ppm	0.030 ppm	0.007 ppm
Concentration per Run 1	0.004 ppm	509.794 ppm	0.031 ppm	0.007 ppm
Concentration per Run 2	0.004 ppm	509.649 ppm	0.029 ppm	0.007 ppm
Concentration per Run 3	0.004 ppm	511.272 ppm	0.028 ppm	0.007 ppm
Concentration RSD	9.3 %	0.2 %	5.4 %	0.8 %
Concentration SD	0.0 ppm	0.9 ppm	0.0 ppm	0.0 ppm

	Ti 334.941 {101} (Radial)	V 292.402 {115} (Radial)	Co 228.616 {447} (Axial)	Ni 231.604 {446} (Axial)
Concentration average	0.473 ppm	0.467 ppm	0.491 ppm	0.972 ppm
Concentration per Run 1	0.469 ppm	0.467 ppm	0.491 ppm	0.971 ppm
Concentration per Run 2	0.472 ppm	0.464 ppm	0.493 ppm	0.973 ppm
Concentration per Run 3	0.477 ppm	0.470 ppm	0.489 ppm	0.971 ppm
Concentration RSD	0.8 %	0.6 %	0.5 %	0.1 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Pb 220.353 {453} (Axial)	Sn 189.989 {478} (Axial)	Tl 190.856 {477} (Axial)	As 189.042 {478} (Axial)
Concentration average	0.951 ppm	0.497 ppm	0.460 ppm	0.477 ppm
Concentration per Run 1	0.955 ppm	0.497 ppm	0.461 ppm	0.474 ppm
Concentration per Run 2	0.956 ppm	0.497 ppm	0.460 ppm	0.479 ppm
Concentration per Run 3	0.943 ppm	0.498 ppm	0.458 ppm	0.479 ppm
Concentration RSD	0.7 %	0.1 %	0.3 %	0.7 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Ba 233.527 {445} (Axial)	Mo 202.030 {467} (Axial)	S 182.034 {485} (Axial)	Si 251.611 {134} (Axial)
Concentration average	0.474 ppm	0.455 ppm	0.004 ppm	1.005 ppm
Concentration per Run 1	0.475 ppm	0.455 ppm	0.004 ppm	1.005 ppm
Concentration per Run 2	0.476 ppm	0.457 ppm	0.000 ppm	1.008 ppm
Concentration per Run 3	0.471 ppm	0.452 ppm	0.006 ppm	1.001 ppm
Concentration RSD	0.5 %	0.5 %	81.9 %	0.3 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)	Cr 267.716 {126} (Axial)
Concentration average	0.491 ppm	0.504 ppm	1.117 ppm	0.470 ppm
Concentration per Run 1	0.493 ppm	0.508 ppm	1.118 ppm	0.470 ppm
Concentration per Run 2	0.491 ppm	0.509 ppm	1.113 ppm	0.468 ppm
Concentration per Run 3	0.488 ppm	0.495 ppm	1.119 ppm	0.472 ppm
Concentration RSD	0.6 %	1.5 %	0.3 %	0.4 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Mn 257.610 {131} (Axial)	Y 360.073 {94} (Radial)	Y 224.306 {450} (Axial)	In 230.606 {446} (Axial)
Concentration average	0.476 ppm	97.311 %	87.441 %	72.904 %
Concentration per Run 1	0.475 ppm	97.222 %	87.552 %	73.007 %
Concentration per Run 2	0.477 ppm	97.356 %	87.079 %	72.694 %
Concentration per Run 3	0.476 ppm	97.354 %	87.693 %	73.012 %
Concentration RSD	0.3 %	0.1 %	0.4 %	0.2 %
Concentration SD	0.0 ppm	0.1 %	0.3 %	0.2 %

	Y 360.073 {94} (Axial)	Na 818.326 {41} (Radial)	Zn 206.200 {463} (Axial)	Cd 228.802 {447} (Axial)
Concentration average	85.640 %	0.311 ppm	0.906 ppm	1.038 ppm
Concentration per Run 1	85.742 %	0.337 ppm	0.906 ppm	1.038 ppm
Concentration per Run 2	85.700 %	0.343 ppm	0.910 ppm	1.041 ppm
Concentration per Run 3	85.478 %	0.252 ppm	0.901 ppm	1.035 ppm
Concentration RSD	0.2 %	16.3 %	0.5 %	0.3 %
Concentration SD	0.1 %	0.1 ppm	0.0 ppm	0.0 ppm

	Cu 324.754 {104} (Radial)
Concentration average	0.484 ppm
Concentration per Run 1	0.480 ppm
Concentration per Run 2	0.486 ppm
Concentration per Run 3	0.485 ppm
Concentration RSD	0.6 %
Concentration SD	0.0 ppm

	Al 308.215 {109} (Radial)	B 249.678 {135} (Radial)	Be 313.042 {108} (Radial)	Ca 317.933 {106} (Radial)
Intensity average	21,545 cps	193 cps	6,700 cps	190,597 cps

	Ca 373.690 {90} (Radial)	Fe 259.940 {130} (Radial)	Fe 271.441 {124} (Radial)	K 766.490 {44} (Radial)
Intensity average	82,646 cps	47,885 cps	3,210 cps	45 cps

	Li 670.784 {50} (Radial)	Mg 279.079 {121} (Radial)	Na 589.592 {57} (Radial)	Sr 421.552 {80} (Radial)
Intensity average	53 cps	20,214 cps	106 cps	229 cps

	Ti 334.941 {101} (Radial)	V 292.402 {115} (Radial)	Co 228.616 {447} (Axial)	Ni 231.604 {446} (Axial)
Intensity average	966 cps	204 cps	982 cps	1,369 cps

	Pb 220.353 {453} (Axial)	Sn 189.989 {478} (Axial)	Tl 190.856 {477} (Axial)	As 189.042 {478} (Axial)
Intensity average	466 cps	276 cps	171 cps	131 cps

	Ba 233.527 {445} (Axial)	Mo 202.030 {467} (Axial)	S 182.034 {485} (Axial)	Si 251.611 {134} (Axial)
Intensity average	2,266 cps	1,201 cps	3 cps	1,801 cps

	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)	Cr 267.716 {126} (Axial)
Intensity average	232 cps	126 cps	6,859 cps	2,008 cps

	Mn 257.610 {131} (Axial)	Y 360.073 {94} (Radial)	Y 224.306 {450} (Axial)	In 230.606 {446} (Axial)
Intensity average	15,936 cps	4,800 cps	7,012 cps	2,094 cps

	Y 360.073 {94} (Axial)	Na 818.326 {41} (Radial)	Zn 206.200 {463} (Axial)	Cd 228.802 {447} (Axial)
Intensity average	113,242 cps	-126 cps	2,166 cps	3,958 cps

	Cu 324.754 {104} (Radial)
Intensity average	326 cps

Trace Metals by Method 6020

12065 Lebanon Rd
Mt. Juliet, TN 37122
(615) 758-5858
(800) 767-5859
Fax (615) 758-5859
Tax I.D 62-0814289
Est. 1970

Quality Control Summary
SDG: L735181

Trace Metals by Method 6020
URS Corporation - Tucson AZ - 1088308

Project: Holloman AFB
Project No: 23446543.0057AA

Login No: L735181

Lab SampleID.	Client ID
L735181-01	H-TU508-TRIPBLANK-TT01
L735181-02	H-TU508-MW06-NT01
L735181-03	H-TU508-MW06-ND01
L735181-04	H-TU508-MW05-ND01
L735181-05	H-TU508-MW05-NT01
L735181-06	H-TU508-MW04-ND01
L735181-07	H-TU508-MW04-NT01
L735181-08	H-TU508-MW07-NT01
L735181-09	H-TU508-MW07-ND01
L735181-10	H-TU508-MW07-NT01

I certify that this data package accurately represents the information in the raw data found herein, both technically and for completeness. Release of the data contained in this data package has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature.

Signature: _____ Name: ESC Lab Sciences

Date: _____ Title: Quality Control

12065 Lebanon Rd
Mt. Juliet, TN 37122
(615) 758-5858
(800) 767-5859
Fax (615) 758-5859
Tax I.D 62-0814289
Est. 1970

Quality Control Summary
SDG: L735181
URS Corporation - Tucson AZ - 1088308

Test:	Trace Metals by Method 6020		
Project No:	23446543.0057AA	Matrix:	Water - ug/L
Project:	Holloman AFB	EPA ID:	TN00003
Collection Date:	11/20/2014	**Analytic Batch:**	**WG756357**
Analysis Date:	11/28/2014	Analyst:	664
Instrument ID:	ICPMS8	Prep Date:	11/23/2014
Sample Numbers:	L735181-03, -04, -06, -09		

Workgroup: **WG756357**

Sample Name	Collect Date	Prep Date	Analysis Date
L735181-03 5x	11/19/2014	11/25/2014	11/28/2014
L735181-03 5x	11/19/2014	11/25/2014	11/28/2014
L735181-04 5x	11/19/2014	11/25/2014	11/28/2014
L735181-04 5x	11/19/2014	11/25/2014	11/28/2014
L735181-06 5x	11/19/2014	11/25/2014	11/28/2014
L735181-06 5x	11/19/2014	11/25/2014	11/28/2014
L735181-09 5x	11/21/2014	11/25/2014	11/28/2014
L735181-09 5x	11/21/2014	11/25/2014	11/28/2014

Parameters in bold text are reported in this SDG

12065 Lebanon Rd
Mt. Juliet, TN 37122
(615) 758-5858
(800) 767-5859
Fax (615) 758-5859
Tax I.D 62-0814289
Est. 1970

Quality Control Summary
SDG: L735181
URS Corporation - Tucson AZ - 1088308

Test:	Trace Metals by Method 6020		
Project No:	23446543.0057AA	Matrix:	Water - ug/L
Project:	Holloman AFB	EPA ID:	TN00003
Collection Date:	11/20/2014	**Analytic Batch:**	**WG756921**
Analysis Date:	11/28/2014	Analyst:	664
Instrument ID:	ICPMS8	Prep Date:	11/26/2014
Sample Numbers:	L735181-02, -05, -07, -08		

Workgroup: **WG756921**

Sample Name	Collect Date	Prep Date	Analysis Date
L735181-02 5x	11/19/2014	11/26/2014	11/28/2014
L735181-02 5x	11/19/2014	11/26/2014	11/28/2014
L735181-05 5x	11/19/2014	11/26/2014	11/28/2014
L735181-05 5x	11/19/2014	11/26/2014	11/28/2014
L735181-07 5x	11/19/2014	11/26/2014	11/28/2014
L735181-07 5x	11/19/2014	11/26/2014	11/28/2014
L735181-08 5x	11/21/2014	11/26/2014	11/28/2014
L735181-08 5x	11/21/2014	11/26/2014	11/28/2014

Parameters in bold text are reported in this SDG

12065 Lebanon Rd
Mt. Juliet, TN 37122
(615) 758-5858
(800) 767-5859
Fax (615) 758-5859
Tax I.D 62-0814289
Est. 1970

Quality Control Summary
SDG: L735181
URS Corporation - Tucson AZ - 1088308

Test:	Trace Metals by Method 6020		
Project No:	23446543.0057AA	Matrix:	Water - ug/L
Project:	Holloman AFB	EPA ID:	TN00003
Collection Date:	11/20/2014	**Analytic Batch:**	**WG757513**
Analysis Date:	12/1/2014	Analyst:	117
Instrument ID:	ICPMS8	Prep Date:	12/1/2014
Sample Numbers:	L735181-02, -05, -07, -08		

Workgroup: **WG757513**

Sample Name	Collect Date	Prep Date	Analysis Date
L735181-02 1x	11/19/2014	12/1/2014	12/01/2014
L735181-02 5x	11/19/2014	12/1/2014	12/02/2014
L735181-05 1x	11/19/2014	12/1/2014	12/01/2014
L735181-05 5x	11/19/2014	12/1/2014	12/02/2014
L735181-07 1x	11/19/2014	12/1/2014	12/01/2014
L735181-07 5x	11/19/2014	12/1/2014	12/02/2014
L735181-08 1x	11/21/2014	12/1/2014	12/01/2014
L735181-08 5x	11/21/2014	12/1/2014	12/02/2014

Parameters in bold text are reported in this SDG

12065 Lebanon Rd
Mt. Juliet, TN 37122
(615) 758-5858
(800) 767-5859
Fax (615) 758-5859
Tax I.D 62-0814289
Est. 1970

Quality Control Summary
SDG: L735181
URS Corporation - Tucson AZ - 1088308

Test:	Trace Metals by Method 6020		
Project No:	23446543.0057AA	Matrix:	Water - ug/L
Project:	Holloman AFB	EPA ID:	TN00003
Collection Date:	11/20/2014	**Analytic Batch:**	**WG756357**
Analysis Date:	11/28/2014	Analyst:	664
Instrument ID:	ICPMS8	Prep Date:	11/23/2014
Sample Numbers:	L735181-03, -04, -06, -09		

Method Blank Summary

Instrument	Client Sample ID	Lab Sample ID	File Name	Analysis Date	Analysis Time
ICPMS8	LCS WG756357	LCS WG756357	36	11/28/2014	2:28 PM
ICPMS8	LCSD WG756357	LCSD WG756357	37	11/28/2014	2:30 PM
ICPMS8	DUP WG756357	DUP WG756357	39	11/28/2014	2:33 PM
ICPMS8	MS WG756357	MS WG756357	40	11/28/2014	2:34 PM
ICPMS8	MSD WG756357	MSD WG756357	42	11/28/2014	2:38 PM
ICPMS8	H-TU508-MW06-ND01	L735181-03	50	11/28/2014	2:50 PM
ICPMS8	H-TU508-MW05-ND01	L735181-04	51	11/28/2014	2:52 PM
ICPMS8	H-TU508-MW04-ND01	L735181-06	54	11/28/2014	2:57 PM
ICPMS8	H-TU508-MW07-ND01	L735181-09	55	11/28/2014	3:04 PM
ICPMS8	Blank WG756357	Blank WG756357	34	11/28/2014	8:10 PM
ICPMS8	LCS WG756357	LCS WG756357	35	11/28/2014	8:12 PM
ICPMS8	DUP WG756357	DUP WG756357	38	11/28/2014	8:17 PM
ICPMS8	H-TU508-MW06-ND01	L735181-03	48	11/28/2014	8:32 PM
ICPMS8	H-TU508-MW05-ND01	L735181-04	49	11/28/2014	8:34 PM
ICPMS8	H-TU508-MW04-ND01	L735181-06	52	11/28/2014	8:38 PM
ICPMS8	H-TU508-MW07-ND01	L735181-09	53	11/28/2014	8:40 PM

Parameters in bold text are reported in this SDG

12065 Lebanon Rd
Mt. Juliet, TN 37122
(615) 758-5858
(800) 767-5859
Fax (615) 758-5859
Tax I.D 62-0814289
Est. 1970

Quality Control Summary
SDG: L735181
URS Corporation - Tucson AZ - 1088308

Test:	Trace Metals by Method 6020		
Project No:	23446543.0057AA	Matrix:	Water - ug/L
Project:	Holloman AFB	EPA ID:	TN00003
Collection Date:	11/20/2014	**Analytic Batch:**	**WG756921**
Analysis Date:	11/28/2014	Analyst:	664
Instrument ID:	ICPMS8	Prep Date:	11/26/2014
Sample Numbers:	L735181-02, -05, -07, -08		

Method Blank Summary

Instrument	Client Sample ID	Lab Sample ID	File Name	Analysis Date	Analysis Time
ICPMS8	LCS WG756921	LCS WG756921	63	11/28/2014	3:30 PM
ICPMS8	LCSD WG756921	LCSD WG756921	64	11/28/2014	3:32 PM
ICPMS8	DUP WG756921	DUP WG756921	66	11/28/2014	3:36 PM
ICPMS8	MS WG756921	MS WG756921	67	11/28/2014	3:37 PM
ICPMS8	MSD WG756921	MSD WG756921	68	11/28/2014	3:39 PM
ICPMS8	H-TU508-MW06-NT01	L735181-02	78	11/28/2014	3:55 PM
ICPMS8	H-TU508-MW05-NT01	L735181-05	79	11/28/2014	3:56 PM
ICPMS8	H-TU508-MW04-NT01	L735181-07	82	11/28/2014	4:01 PM
ICPMS8	H-TU508-MW07-NT01	L735181-08	83	11/28/2014	4:02 PM
ICPMS8	Blank WG756921	Blank WG756921	58	11/28/2014	8:48 PM
ICPMS8	LCS WG756921	LCS WG756921	59	11/28/2014	8:49 PM
ICPMS8	LCSD WG756921	LCSD WG756921	60	11/28/2014	8:51 PM
ICPMS8	DUP WG756921	DUP WG756921	62	11/28/2014	8:54 PM
ICPMS8	H-TU508-MW06-NT01	L735181-02	72	11/28/2014	9:09 PM
ICPMS8	H-TU508-MW05-NT01	L735181-05	73	11/28/2014	9:11 PM
ICPMS8	H-TU508-MW04-NT01	L735181-07	76	11/28/2014	9:16 PM
ICPMS8	H-TU508-MW07-NT01	L735181-08	77	11/28/2014	9:17 PM

Parameters in bold text are reported in this SDG

12065 Lebanon Rd
Mt. Juliet, TN 37122
(615) 758-5858
(800) 767-5859
Fax (615) 758-5859
Tax I.D 62-0814289
Est. 1970

Quality Control Summary
SDG: L735181
URS Corporation - Tucson AZ - 1088308

Test:	Trace Metals by Method 6020		
Project No:	23446543.0057AA	Matrix:	Water - ug/L
Project:	Holloman AFB	EPA ID:	TN00003
Collection Date:	11/20/2014	**Analytic Batch:**	**WG757513**
Analysis Date:	12/1/2014	Analyst:	117
Instrument ID:	ICPMS8	Prep Date:	12/1/2014
Sample Numbers:	L735181-02, -05, -07, -08		

Method Blank Summary

Instrument	Client Sample ID	Lab Sample ID	File Name	Analysis Date	Analysis Time
ICPMS8	Blank WG757513	Blank WG757513	147	12/1/2014	9:25 PM
ICPMS8	LCS WG757513	LCS WG757513	148	12/1/2014	9:26 PM
ICPMS8	LCSD WG757513	LCSD WG757513	149	12/1/2014	9:28 PM
ICPMS8	H-TU508-MW05-NT01	L735181-05	150	12/1/2014	9:30 PM
ICPMS8	DUP WG757513	DUP WG757513	151	12/1/2014	9:31 PM
ICPMS8	MS WG757513	MS WG757513	152	12/1/2014	9:33 PM
ICPMS8	MSD WG757513	MSD WG757513	153	12/1/2014	9:34 PM
ICPMS8	H-TU508-MW06-NT01	L735181-02	162	12/1/2014	9:49 PM
ICPMS8	H-TU508-MW04-NT01	L735181-07	165	12/1/2014	10:11 PM
ICPMS8	H-TU508-MW07-NT01	L735181-08	166	12/1/2014	10:12 PM
ICPMS8	Blank WG757513	Blank WG757513	22	12/2/2014	4:47 PM
ICPMS8	LCS WG757513	LCS WG757513	23	12/2/2014	4:49 PM
ICPMS8	LCSD WG757513	LCSD WG757513	24	12/2/2014	4:50 PM
ICPMS8	H-TU508-MW05-NT01	L735181-05	25	12/2/2014	4:52 PM
ICPMS8	DUP WG757513	DUP WG757513	26	12/2/2014	4:53 PM
ICPMS8	MS WG757513	MS WG757513	27	12/2/2014	4:55 PM
ICPMS8	MSD WG757513	MSD WG757513	28	12/2/2014	4:56 PM
ICPMS8	H-TU508-MW06-NT01	L735181-02	37	12/2/2014	5:10 PM
ICPMS8	H-TU508-MW04-NT01	L735181-07	40	12/2/2014	5:15 PM
ICPMS8	H-TU508-MW07-NT01	L735181-08	41	12/2/2014	5:17 PM

Parameters in bold text are reported in this SDG

12065 Lebanon Rd
Mt. Juliet, TN 37122
(615) 758-5858
(800) 767-5859
Fax (615) 758-5859
Tax I.D 62-0814289
Est. 1970

Quality Control Summary
SDG: L735181
URS Corporation - Tucson AZ - 1088308

Test:	Trace Metals by Method 6020		
Project No:	23446543.0057AA	Matrix:	Water - ug/L
Project:	Holloman AFB	EPA ID:	TN00003
Collection Date:	11/20/2014	**Analytic Batch:**	**WG756357**
Analysis Date:	11/28/2014	Analyst:	664
Instrument ID:	ICPMS8	Prep Date:	11/23/2014
Sample Numbers:	L735181-03, -04, -06, -09		

Method Blank

Analyte	CAS	RDL	MDL	Qualifier
Antimony,Dissolved	7440-36-0	< 1.00	< 0.210	
Arsenic,Dissolved	7440-38-2	< 1.00	< 0.250	
Cadmium,Dissolved	7440-43-9	< 0.500	< 0.160	
Chromium,Dissolved	7440-47-3	< 2.00	< 0.540	
Cobalt,Dissolved	7440-48-4	< 1.00	< 0.260	
Lead,Dissolved	7439-92-1	< 1.00	< 0.240	
Nickel,Dissolved	7440-02-0	< 1.00	< 0.350	
Selenium,Dissolved	7782-49-2	< 1.00	< 0.380	
Silver,Dissolved	7440-22-4	< 1.00	< 0.310	
Thallium,Dissolved	7440-28-0	< 1.00	< 0.190	

Parameters in bold text are reported in this SDG

12065 Lebanon Rd
Mt. Juliet, TN 37122
(615) 758-5858
(800) 767-5859
Fax (615) 758-5859
Tax I.D 62-0814289
Est. 1970

Quality Control Summary
SDG: L735181
URS Corporation - Tucson AZ - 1088308

Test:	Trace Metals by Method 6020		
Project No:	23446543.0057AA	Matrix:	Water - ug/L
Project:	Holloman AFB	EPA ID:	TN00003
Collection Date:	11/20/2014	**Analytic Batch:**	**WG756921**
Analysis Date:	11/28/2014	Analyst:	664
Instrument ID:	ICPMS8	Prep Date:	11/26/2014
Sample Numbers:	L735181-02, -05, -07, -08		

Method Blank

Analyte	CAS	RDL	MDL	Qualifier
Arsenic	7440-38-2	< 1.00	0.268	
Cadmium	7440-43-9	< 0.500	< 0.160	
Chromium	7440-47-3	< 2.00	< 0.540	
Cobalt	7440-48-4	< 1.00	< 0.260	
Selenium	7782-49-2	< 1.00	0.431	
Silver	7440-22-4	< 1.00	< 0.310	
Thallium	7440-28-0	< 1.00	< 0.190	

Parameters in bold text are reported in this SDG

12065 Lebanon Rd
Mt. Juliet, TN 37122
(615) 758-5858
(800) 767-5859
Fax (615) 758-5859
Tax I.D 62-0814289
Est. 1970

Quality Control Summary
SDG: L735181
URS Corporation - Tucson AZ - 1088308

Test:	Trace Metals by Method 6020		
Project No:	23446543.0057AA	Matrix:	Water - ug/L
Project:	Holloman AFB	EPA ID:	TN00003
Collection Date:	11/20/2014	**Analytic Batch:**	**WG757513**
Analysis Date:	12/1/2014	Analyst:	117
Instrument ID:	ICPMS8	Prep Date:	12/1/2014
Sample Numbers:	L735181-02, -05, -07, -08		

Method Blank

Analyte	CAS	RDL	MDL	Qualifier
Antimony	7440-36-0	< 1.00	< 0.210	
Lead	7439-92-1	< 1.00	< 0.240	
Nickel	7440-02-0	< 1.00	< 0.350	

Laboratory Control Sample (LCS)

Analyte	Dil	True Value	Found	% Rec	Control Limits	Qual
Antimony	1	50	53.660	107	85 - 115	
Lead	1	50	52.666	105	80 - 120	
Nickel	1	50	52.342	105	85 - 115	

Laboratory Control Sample Duplicate (LCSD)

Analyte	Dil	True Value	Found	% Rec	Control Limits	Qual
Antimony	1	50	52.995	106	85 - 115	
Lead	1	50	51.512	103	80 - 120	
Nickel	1	50	50.685	101	85 - 115	

Laboratory Control Sample / Laboratory Control Sample Duplicate

Analyte	Dil	Spike	LCS	% Rec	LCSD	% Rec	Control Limits	% Rec Qual	% RPD	Control Limits	RPD Qual
Antimony	1	50	53.660	107	52.995	106	85 - 115		1	20	
Lead	1	50	52.666	105	51.512	103	80 - 120		2	20	
Nickel	1	50	52.342	105	50.685	101	85 - 115		3	20	

Parameters in bold text are reported in this SDG

12065 Lebanon Rd
Mt. Juliet, TN 37122
(615) 758-5858
(800) 767-5859
Fax (615) 758-5859
Tax I.D 62-0814289
Est. 1970

Quality Control Summary
SDG: L735181
URS Corporation - Tucson AZ - 1088308

Test:	Trace Metals by Method 6020		
Project No:	23446543.0057AA	Matrix:	Water - ug/L
Project:	Holloman AFB	EPA ID:	TN00003
Collection Date:	11/20/2014	**Analytic Batch:**	**WG756357**
Analysis Date:	11/28/2014	Analyst:	664
Instrument ID:	ICPMS8	Prep Date:	11/23/2014
Sample Numbers:	L735181-03, -04, -06, -09		

Laboratory Control Sample (LCS)

Analyte	Dil	True Value	Found	% Rec	Control Limits	Qual
Antimony,Dissolved	1	50	50.855	102	85 - 115	
Arsenic,Dissolved	1	50	46.882	94	85 - 115	
Cadmium,Dissolved	1	50	49.809	100	85 - 115	
Chromium,Dissolved	1	50	51.315	103	85 - 115	
Cobalt,Dissolved	1	50	52.447	105	85 - 115	
Lead,Dissolved	1	50	52.645	105	85 - 115	
Nickel,Dissolved	1	50	54.350	109	85 - 115	
Selenium,Dissolved	1	50	51.457	103	85 - 115	
Silver,Dissolved	1	50	50.652	101	85 - 115	
Thallium,Dissolved	1	50	50.262	101	85 - 115	

Laboratory Control Sample Duplicate (LCSD)

Analyte	Dil	True Value	Found	% Rec	Control Limits	Qual
Antimony,Dissolved	1	50	51.873	104	85 - 115	
Arsenic,Dissolved	1	50	47.889	96	85 - 115	
Cadmium,Dissolved	1	50	50.864	102	85 - 115	
Chromium,Dissolved	1	50	51.797	104	85 - 115	
Cobalt,Dissolved	1	50	53.576	107	85 - 115	
Lead,Dissolved	1	50	53.110	106	85 - 115	
Nickel,Dissolved	1	50	54.360	109	85 - 115	
Selenium,Dissolved	1	50	51.071	102	85 - 115	
Silver,Dissolved	1	50	50.887	102	85 - 115	
Thallium,Dissolved	1	50	50.079	100	85 - 115	

Parameters in bold text are reported in this SDG

12065 Lebanon Rd
Mt. Juliet, TN 37122
(615) 758-5858
(800) 767-5859
Fax (615) 758-5859
Tax I.D 62-0814289
Est. 1970

Quality Control Summary
SDG: L735181
URS Corporation - Tucson AZ - 1088308

Test:	Trace Metals by Method 6020		
Project No:	23446543.0057AA	Matrix:	Water - ug/L
Project:	Holloman AFB	EPA ID:	TN00003
Collection Date:	11/20/2014	**Analytic Batch:**	**WG756357**
Analysis Date:	11/28/2014	Analyst:	664
Instrument ID:	ICPMS8	Prep Date:	11/23/2014
Sample Numbers:	L735181-03, -04, -06, -09		

Laboratory Control Sample / Laboratory Control Sample Duplicate

Analyte	Dil	Spike	LCS	% Rec	LCSD	% Rec	Control Limits	% Rec Qual	% RPD	Control Limits	RPD Qual
Antimony,Dissolved	1	50	50.855	102	51.873	104	85 - 115		2	20	
Arsenic,Dissolved	1	50	46.882	94	47.889	96	85 - 115		2	20	
Cadmium,Dissolved	1	50	49.809	100	50.864	102	85 - 115		2	20	
Chromium,Dissolved	1	50	51.315	103	51.797	104	85 - 115		1	20	
Cobalt,Dissolved	1	50	52.447	105	53.576	107	85 - 115		2	20	
Lead,Dissolved	1	50	52.645	105	53.110	106	85 - 115		1	20	
Nickel,Dissolved	1	50	54.350	109	54.360	109	85 - 115		0	20	
Selenium,Dissolved	1	50	51.457	103	51.071	102	85 - 115		1	20	
Silver,Dissolved	1	50	50.652	101	50.887	102	85 - 115		0	20	
Thallium,Dissolved	1	50	50.262	101	50.079	100	85 - 115		0	20	

Parameters in bold text are reported in this SDG

12065 Lebanon Rd
Mt. Juliet, TN 37122
(615) 758-5858
(800) 767-5859
Fax (615) 758-5859
Tax I.D 62-0814289
Est. 1970

Quality Control Summary
SDG: L735181
URS Corporation - Tucson AZ - 1088308

Test:	Trace Metals by Method 6020		
Project No:	23446543.0057AA	Matrix:	Water - ug/L
Project:	Holloman AFB	EPA ID:	TN00003
Collection Date:	11/20/2014	**Analytic Batch:**	**WG756921**
Analysis Date:	11/28/2014	Analyst:	664
Instrument ID:	ICPMS8	Prep Date:	11/26/2014
Sample Numbers:	L735181-02, -05, -07, -08		

Laboratory Control Sample (LCS)

Analyte	Dil	True Value	Found	% Rec	Control Limits	Qual
Arsenic	1	50	46.620	93	85 - 115	
Cadmium	1	50	50.089	100	85 - 115	
Chromium	1	50	55.368	111	85 - 115	
Cobalt	1	50	49.052	98	85 - 115	
Selenium	1	50	45.661	91	80 - 120	
Silver	1	50	51.827	104	85 - 115	
Thallium	1	50	55.155	110	85 - 115	

Laboratory Control Sample Duplicate (LCSD)

Analyte	Dil	True Value	Found	% Rec	Control Limits	Qual
Arsenic	1	50	45.728	91	85 - 115	
Cadmium	1	50	50.384	101	85 - 115	
Chromium	1	50	53.516	107	85 - 115	
Cobalt	1	50	48.283	97	85 - 115	
Selenium	1	50	41.966	84	80 - 120	
Silver	1	50	51.342	103	85 - 115	
Thallium	1	50	54.879	110	85 - 115	

Laboratory Control Sample / Laboratory Control Sample Duplicate

Analyte	Dil	Spike	LCS	% Rec	LCSD	% Rec	Control Limits	% Rec Qual	% RPD	Control Limits	RPD Qual
Arsenic	1	50	46.620	93	45.728	91	85 - 115		2	20	
Cadmium	1	50	50.089	100	50.384	101	85 - 115		1	20	
Chromium	1	50	55.368	111	53.516	107	85 - 115		3	20	
Cobalt	1	50	49.052	98	48.283	97	85 - 115		2	20	
Selenium	1	50	45.661	91	41.966	84	80 - 120		8	20	
Silver	1	50	51.827	104	51.342	103	85 - 115		1	20	
Thallium	1	50	55.155	110	54.879	110	85 - 115		1	20	

Parameters in bold text are reported in this SDG

12065 Lebanon Rd
Mt. Juliet, TN 37122
(615) 758-5858
(800) 767-5859
Fax (615) 758-5859
Tax I.D 62-0814289
Est. 1970

Quality Control Summary
SDG: L735181
URS Corporation - Tucson AZ - 1088308

Test:	Trace Metals by Method 6020		
Project No:	23446543.0057AA	Matrix:	Water - ug/L
Project:	Holloman AFB	EPA ID:	TN00003
Collection Date:	11/20/2014	**Analytic Batch:**	**WG756357**
Analysis Date:	11/28/2014	Analyst:	664
Instrument ID:	ICPMS8	Prep Date:	11/23/2014
Sample Numbers:	L735181-03, -04, -06, -09		

Serial Dilution

L734231-15

Analyte	Dil	Sample Result	SD Result	% RPD	Limit	Qualifier
Antimony,Dissolved	25	1.5648	<5.25	37	10	
Arsenic,Dissolved	25	1.8702	<6.25	33	10	
Cadmium,Dissolved	25	<0.8	<4		10	
Chromium,Dissolved	25	<2.7	<13.5		10	
Cobalt,Dissolved	25	1.6235	<6.5	11	10	
Lead,Dissolved	25	<1.2	<6		10	
Nickel,Dissolved	25	2.4631	<8.75	12	10	
Selenium,Dissolved	25	<1.9	<9.5		10	
Silver,Dissolved	25	<1.55	<7.75		10	
Thallium,Dissolved	25	<0.95	<4.75		10	

Matrix Spike / Matrix Spike Duplicate

L734231-15

Analyte	Dil	Spike Value	Sample	MS	% Rec	MSD	% Rec	Control Limits	% Rec Qual	RPD	Control Limits	RPD Qual
Antimony,Dissolved	5	10	1.5648	58.274	113	50.504	98	75 - 125		14	20	
Arsenic,Dissolved	5	10	1.8702	55.917	108	51.640	100	75 - 125		8	20	
Cadmium,Dissolved	5	10	<0.8	53.055	106	49.480	99	75 - 125		7	20	
Chromium,Dissolved	5	10	<2.7	53.035	105	47.169	93	75 - 125		12	20	
Cobalt,Dissolved	5	10	1.6235	56.360	109	51.054	99	75 - 125		10	20	
Lead,Dissolved	5	10	<1.2	52.994	105	47.879	94	75 - 125		10	20	
Nickel,Dissolved	5	10	2.4631	51.768	99	63.363	122	75 - 125		20	20	
Selenium,Dissolved	5	10	<1.9	45.502	88	48.974	95	75 - 125		7	20	
Silver,Dissolved	5	10	<1.55	53.674	106	47.948	95	75 - 125		11	20	
Thallium,Dissolved	5	10	<0.95	50.385	101	45.605	91	75 - 125		10	20	

Parameters in bold text are reported in this SDG

12065 Lebanon Rd
Mt. Juliet, TN 37122
(615) 758-5858
(800) 767-5859
Fax (615) 758-5859
Tax I.D 62-0814289
Est. 1970

Quality Control Summary
SDG: L735181
URS Corporation - Tucson AZ - 1088308

Test:	Trace Metals by Method 6020		
Project No:	23446543.0057AA	Matrix:	Water - ug/L
Project:	Holloman AFB	EPA ID:	TN00003
Collection Date:	11/20/2014	**Analytic Batch:**	**WG756921**
Analysis Date:	11/28/2014	Analyst:	664
Instrument ID:	ICPMS8	Prep Date:	11/26/2014
Sample Numbers:	L735181-02, -05, -07, -08		

Serial Dilution

L734231-16

Analyte	Dil	Sample Result	SD Result	% RPD	Limit	Qualifier
Arsenic	25	10.797	12.255	13	10	
Cadmium	25	<0.8	<4		10	
Chromium	25	24.915	25.458	2	10	
Cobalt	25	12.808	14.196	11	10	
Selenium	25	12.111	19.015	57	10	
Silver	25	<1.55	<7.75		10	
Thallium	25	<0.95	<4.75		10	

Matrix Spike / Matrix Spike Duplicate

L734231-16

Analyte	Dil	Spike Value	Sample	MS	% Rec	MSD	% Rec	Control Limits	% Rec Qual	RPD	Control Limits	RPD Qual
Arsenic	5	10	10.797	62.876	104	62.769	104	75 - 125		0	20	
Cadmium	5	10	<0.8	50.613	100	52.281	104	75 - 125		3	20	
Chromium	5	10	24.915	77.146	104	79.702	110	75 - 125		3	20	
Cobalt	5	10	12.808	65.670	106	65.296	105	75 - 125		1	20	
Selenium	5	10	12.111	52.939	82	60.816	97	75 - 125		14	20	
Silver	5	10	<1.55	51.029	101	51.979	103	75 - 125		2	20	
Thallium	5	10	<0.95	51.968	102	53.314	105	75 - 125		3	20	

Parameters in bold text are reported in this SDG

12065 Lebanon Rd
Mt. Juliet, TN 37122
(615) 758-5858
(800) 767-5859
Fax (615) 758-5859
Tax I.D 62-0814289
Est. 1970

Quality Control Summary
SDG: L735181
URS Corporation - Tucson AZ - 1088308

Test:	Trace Metals by Method 6020		
Project No:	23446543.0057AA	Matrix:	Water - ug/L
Project:	Holloman AFB	EPA ID:	TN00003
Collection Date:	11/20/2014	**Analytic Batch:**	**WG757513**
Analysis Date:	12/1/2014	Analyst:	117
Instrument ID:	ICPMS8	Prep Date:	12/1/2014
Sample Numbers:	L735181-02, -05, -07, -08		

Serial Dilution

L735181-05

Analyte	Dil	Sample Result	SD Result	% RPD	Limit	Qualifier
Antimony	5	0.9596	<1.05	5	10	
Lead	25	1.2340	<6	26	10	
Nickel	5	6.6926	27.708	314	10	

Matrix Spike / Matrix Spike Duplicate

L735181-05

Analyte	Dil	Spike Value	Sample	MS	% Rec	MSD	% Rec	Control Limits	% Rec Qual	RPD	Control Limits	RPD Qual
Antimony	1	50	0.9596	55.367	109	55.863	110	75 - 125		1	20	
Lead	5	10	1.2340	48.685	95	49.540	97	75 - 125		2	20	
Nickel	1	50	6.6926	54.336	95	57.101	101	75 - 125		5	20	

Parameters in bold text are reported in this SDG

12065 Lebanon Rd
Mt. Juliet, TN 37122
(615) 758-5858
(800) 767-5859
Fax (615) 758-5859
Tax I.D 62-0814289
Est. 1970

Quality Control Summary
SDG: L735181
URS Corporation - Tucson AZ - 1088308

Test: Trace Metals by Method 6020
Project No: 23446543.0057AA
Project: Holloman AFB EPA ID: TN00003
Collection Date: 11/20/2014
Instrument ID: ICPMS8

Standard Type: ICV
Analysis Date: 11/28/2014 1:31 PM
Analysis Time: 1331
Data File: 112814ICPMS8

Analyte	Conc.	True Value	Recovery	Limits
Silver (107)	0.104	0.1	104 %	90-110
Arsenic (75)	0.104	0.1	104 %	90-110
Cadmium (111)	0.104	0.1	104 %	90-110
Cobalt (59)	0.105	0.1	105 %	90-110
Chromium (52)	0.108	0.1	108 %	90-110
Nickel (60)	0.104	0.1	104 %	90-110
Lead (208)	0.103	0.1	103 %	90-110
Antimony (121)	0.101	0.1	101 %	90-110
Selenium (78)	0.102	0.1	102 %	90-110
Selenium (82)	0.105	0.1	105 %	90-110
Thallium (205)	0.0994	0.1	99 %	90-110

Standard Type: ICVLL
Analysis Date: 11/28/2014 1:36 PM
Analysis Time: 1336
Data File: 112814ICPMS8

Analyte	Conc.
Silver (107)	0.0005
Arsenic (75)	0.0011
Cadmium (111)	0.0005
Cobalt (59)	0.0011
Chromium (52)	0.0010
Nickel (60)	0.0012
Lead (208)	0.0010
Antimony (121)	0.0013
Selenium (78)	0.0011
Selenium (82)	0.0012
Thallium (205)	0.0010

*** - calibrated by linear regression*

12065 Lebanon Rd
Mt. Juliet, TN 37122
(615) 758-5858
(800) 767-5859
Fax (615) 758-5859
Tax I.D 62-0814289
Est. 1970

Quality Control Summary
SDG: L735181
URS Corporation - Tucson AZ - 1088308

Test: Trace Metals by Method 6020
Project No: 23446543.0057AA
Project: Holloman AFB EPA ID: TN00003
Collection Date: 11/20/2014
Instrument ID: ICPMS8

Standard Type: CCV
Analysis Date: 11/28/2014 2:24 PM
Analysis Time: 1424
Data File: 112814ICPMS8

Analyte	Conc.	True Value	Recovery	Limits
Silver (107)	0.103	0.1	103 %	90-110
Arsenic (75)	0.102	0.1	102 %	90-110
Cadmium (111)	0.101	0.1	101 %	90-110
Cobalt (59)	0.103	0.1	103 %	90-110
Chromium (52)	0.103	0.1	103 %	90-110
Nickel (60)	0.102	0.1	102 %	90-110
Lead (208)	0.104	0.1	104 %	90-110
Antimony (121)	0.0987	0.1	99 %	90-110
Selenium (78)	0.104	0.1	104 %	90-110
Selenium (82)	0.0998	0.1	100 %	90-110
Thallium (205)	0.0997	0.1	100 %	90-110

Standard Type: CCV
Analysis Date: 11/28/2014 2:54 PM
Analysis Time: 1454
Data File: 112814ICPMS8

Analyte	Conc.	True Value	Recovery	Limits
Silver (107)	0.103	0.1	103 %	90-110
Arsenic (75)	0.102	0.1	102 %	90-110
Cadmium (111)	0.0995	0.1	100 %	90-110
Cobalt (59)	0.104	0.1	104 %	90-110
Chromium (52)	0.104	0.1	104 %	90-110
Nickel (60)	0.104	0.1	104 %	90-110
Lead (208)	0.105	0.1	105 %	90-110
Antimony (121)	0.0978	0.1	98 %	90-110
Selenium (78)	0.0988	0.1	99 %	90-110
Selenium (82)	0.0998	0.1	100 %	90-110
Thallium (205)	0.1000	0.1	100 %	90-110

*** - calibrated by linear regression*

12065 Lebanon Rd
Mt. Juliet, TN 37122
(615) 758-5858
(800) 767-5859
Fax (615) 758-5859
Tax I.D 62-0814289
Est. 1970

Quality Control Summary
SDG: L735181
URS Corporation - Tucson AZ - 1088308

Test: Trace Metals by Method 6020
Project No: 23446543.0057AA
Project: Holloman AFB EPA ID: TN00003
Collection Date: 11/20/2014
Instrument ID: ICPMS8

Standard Type: CCV
Analysis Date: 11/28/2014 3:26 PM
Analysis Time: 1526
Data File: 112814ICPMS8

Analyte	Conc.	True Value	Recovery	Limits
Silver (107)	0.104	0.1	104 %	90-110
Arsenic (75)	0.102	0.1	102 %	90-110
Cadmium (111)	0.100	0.1	100 %	90-110
Cobalt (59)	0.104	0.1	104 %	90-110
Chromium (52)	0.104	0.1	104 %	90-110
Nickel (60)	0.106	0.1	106 %	90-110
Lead (208)	0.107	0.1	107 %	90-110
Antimony (121)	0.0994	0.1	99 %	90-110
Selenium (78)	0.0988	0.1	99 %	90-110
Selenium (82)	0.102	0.1	102 %	90-110
Thallium (205)	0.103	0.1	103 %	90-110

*** - calibrated by linear regression*

12065 Lebanon Rd
Mt. Juliet, TN 37122
(615) 758-5858
(800) 767-5859
Fax (615) 758-5859
Tax I.D 62-0814289
Est. 1970

Quality Control Summary
SDG: L735181
URS Corporation - Tucson AZ - 1088308

Test: Trace Metals by Method 6020
Project No: 23446543.0057AA
Project: Holloman AFB EPA ID: TN00003
Collection Date: 11/20/2014
Instrument ID: ICPMS8

Standard Type: ICV
Analysis Date: 11/28/2014 7:28 PM
Analysis Time: 1928
Data File: 112814ICPMS8B

Analyte	Conc.	True Value	Recovery	Limits
Silver (107)	0.104	0.1	104 %	90-110
Arsenic (75)	0.104	0.1	104 %	90-110
Cadmium (111)	0.104	0.1	104 %	90-110
Cobalt (59)	0.106	0.1	106 %	90-110
Chromium (52)	0.108	0.1	108 %	90-110
Nickel (60)	0.106	0.1	106 %	90-110
Lead (208)	0.105	0.1	105 %	90-110
Antimony (121)	0.103	0.1	103 %	90-110
Selenium (78)	0.106	0.1	106 %	90-110
Selenium (82)	0.0995	0.1	100 %	90-110
Thallium (205)	0.100	0.1	100 %	90-110

Standard Type: ICVLL
Analysis Date: 11/28/2014 7:40 PM
Analysis Time: 1940
Data File: 112814ICPMS8B

Analyte	Conc.
Silver (107)	0.0005
Arsenic (75)	0.0011
Cadmium (111)	0.0005
Cobalt (59)	0.0010
Chromium (52)	0.0011
Nickel (60)	0.0011
Lead (208)	0.0011
Antimony (121)	0.0011
Selenium (78)	0.0010
Selenium (82)	0.0014
Thallium (205)	0.0010

*** - calibrated by linear regression*

12065 Lebanon Rd
Mt. Juliet, TN 37122
(615) 758-5858
(800) 767-5859
Fax (615) 758-5859
Tax I.D 62-0814289
Est. 1970

Quality Control Summary
SDG: L735181
URS Corporation - Tucson AZ - 1088308

Test: Trace Metals by Method 6020
Project No: 23446543.0057AA
Project: Holloman AFB EPA ID: TN00003
Collection Date: 11/20/2014
Instrument ID: ICPMS8

Standard Type: CCV
Analysis Date: 11/28/2014 8:07 PM
Analysis Time: 2007
Data File: 112814ICPMS8B

Analyte	Conc.	True Value	Recovery	Limits
Silver (107)	0.104	0.1	104 %	90-110
Arsenic (75)	0.105	0.1	105 %	90-110
Cadmium (111)	0.104	0.1	104 %	90-110
Cobalt (59)	0.106	0.1	106 %	90-110
Chromium (52)	0.107	0.1	107 %	90-110
Nickel (60)	0.105	0.1	105 %	90-110
Lead (208)	0.104	0.1	104 %	90-110
Antimony (121)	0.104	0.1	104 %	90-110
Selenium (78)	0.102	0.1	102 %	90-110
Selenium (82)	0.0996	0.1	100 %	90-110
Thallium (205)	0.0996	0.1	100 %	90-110

Standard Type: CCV
Analysis Date: 11/28/2014 8:35 PM
Analysis Time: 2035
Data File: 112814ICPMS8B

Analyte	Conc.	True Value	Recovery	Limits
Silver (107)	0.104	0.1	104 %	90-110
Arsenic (75)	0.103	0.1	103 %	90-110
Cadmium (111)	0.103	0.1	103 %	90-110
Cobalt (59)	0.107	0.1	107 %	90-110
Chromium (52)	0.106	0.1	106 %	90-110
Nickel (60)	0.106	0.1	106 %	90-110
Lead (208)	0.104	0.1	104 %	90-110
Antimony (121)	0.102	0.1	102 %	90-110
Selenium (78)	0.0976	0.1	98 %	90-110
Selenium (82)	0.0979	0.1	98 %	90-110
Thallium (205)	0.0995	0.1	99 %	90-110

*** - calibrated by linear regression*

12065 Lebanon Rd
Mt. Juliet, TN 37122
(615) 758-5858
(800) 767-5859
Fax (615) 758-5859
Tax I.D 62-0814289
Est. 1970

Quality Control Summary
SDG: L735181
URS Corporation - Tucson AZ - 1088308

Test: Trace Metals by Method 6020
Project No: 23446543.0057AA
Project: Holloman AFB EPA ID: TN00003
Collection Date: 11/20/2014
Instrument ID: ICPMS8

Standard Type: CCV
Analysis Date: 11/28/2014 8:44 PM
Analysis Time: 2044
Data File: 112814ICPMS8B

Analyte	Conc.	True Value	Recovery	Limits
Silver (107)	0.104	0.1	104 %	90-110
Arsenic (75)	0.105	0.1	105 %	90-110
Cadmium (111)	0.102	0.1	102 %	90-110
Cobalt (59)	0.108	0.1	108 %	90-110
Chromium (52)	0.107	0.1	107 %	90-110
Nickel (60)	0.106	0.1	106 %	90-110
Lead (208)	0.107	0.1	107 %	90-110
Antimony (121)	0.101	0.1	101 %	90-110
Selenium (78)	0.0990	0.1	99 %	90-110
Selenium (82)	0.100	0.1	100 %	90-110
Thallium (205)	0.102	0.1	102 %	90-110

*** - calibrated by linear regression*

12065 Lebanon Rd
Mt. Juliet, TN 37122
(615) 758-5858
(800) 767-5859
Fax (615) 758-5859
Tax I.D 62-0814289
Est. 1970

Quality Control Summary
SDG: L735181
URS Corporation - Tucson AZ - 1088308

Test: Trace Metals by Method 6020
Project No: 23446543.0057AA
Project: Holloman AFB EPA ID: TN00003
Collection Date: 11/20/2014
Instrument ID: ICPMS8

Standard Type: ICV
Analysis Date: 11/28/2014 1:31 PM
Analysis Time: 1331
Data File: 112814ICPMS8

Analyte	Conc.	True Value	Recovery	Limits
Silver (107)	0.104	0.1	104 %	90-110
Arsenic (75)	0.104	0.1	104 %	90-110
Cadmium (111)	0.104	0.1	104 %	90-110
Cobalt (59)	0.105	0.1	105 %	90-110
Chromium (52)	0.108	0.1	108 %	90-110
Selenium (78)	0.102	0.1	102 %	90-110
Selenium (82)	0.105	0.1	105 %	90-110
Thallium (205)	0.0994	0.1	99 %	90-110

Standard Type: ICVLL
Analysis Date: 11/28/2014 1:36 PM
Analysis Time: 1336
Data File: 112814ICPMS8

Analyte	Conc.
Silver (107)	0.0005
Arsenic (75)	0.0011
Cadmium (111)	0.0005
Cobalt (59)	0.0011
Chromium (52)	0.0010
Selenium (78)	0.0011
Selenium (82)	0.0012
Thallium (205)	0.0010

*** - calibrated by linear regression*

12065 Lebanon Rd
Mt. Juliet, TN 37122
(615) 758-5858
(800) 767-5859
Fax (615) 758-5859
Tax I.D 62-0814289
Est. 1970

Quality Control Summary
SDG: L735181
URS Corporation - Tucson AZ - 1088308

Test: Trace Metals by Method 6020
Project No: 23446543.0057AA
Project: Holloman AFB EPA ID: TN00003
Collection Date: 11/20/2014
Instrument ID: ICPMS8

Standard Type: CCV
Analysis Date: 11/28/2014 3:26 PM
Analysis Time: 1526
Data File: 112814ICPMS8

Analyte	Conc.	True Value	Recovery	Limits
Silver (107)	0.104	0.1	104 %	90-110
Arsenic (75)	0.102	0.1	102 %	90-110
Cadmium (111)	0.100	0.1	100 %	90-110
Cobalt (59)	0.104	0.1	104 %	90-110
Chromium (52)	0.104	0.1	104 %	90-110
Selenium (78)	0.0988	0.1	99 %	90-110
Selenium (82)	0.102	0.1	102 %	90-110
Thallium (205)	0.103	0.1	103 %	90-110

Standard Type: CCV
Analysis Date: 11/28/2014 3:58 PM
Analysis Time: 1558
Data File: 112814ICPMS8

Analyte	Conc.	True Value	Recovery	Limits
Silver (107)	0.104	0.1	104 %	90-110
Arsenic (75)	0.101	0.1	101 %	90-110
Cadmium (111)	0.0974	0.1	97 %	90-110
Cobalt (59)	0.107	0.1	107 %	90-110
Chromium (52)	0.109	0.1	109 %	90-110
Selenium (78)	0.0917	0.1	92 %	90-110
Selenium (82)	0.104	0.1	104 %	90-110
Thallium (205)	0.110	0.1	110 %	90-110

*** - calibrated by linear regression*

12065 Lebanon Rd
Mt. Juliet, TN 37122
(615) 758-5858
(800) 767-5859
Fax (615) 758-5859
Tax I.D 62-0814289
Est. 1970

Quality Control Summary
SDG: L735181
URS Corporation - Tucson AZ - 1088308

Test: Trace Metals by Method 6020
Project No: 23446543.0057AA
Project: Holloman AFB EPA ID: TN00003
Collection Date: 11/20/2014
Instrument ID: ICPMS8

Standard Type: CCV
Analysis Date: 11/28/2014 4:07 PM
Analysis Time: 1607
Data File: 112814ICPMS8

Analyte	Conc.	True Value	Recovery	Limits
Silver (107)	0.104	0.1	104 %	90-110
Arsenic (75)	0.101	0.1	101 %	90-110
Cadmium (111)	0.0972	0.1	97 %	90-110
Cobalt (59)	0.107	0.1	107 %	90-110
Chromium (52)	0.110	0.1	110 %	90-110
Selenium (78)	0.0976	0.1	98 %	90-110
Selenium (82)	0.103	0.1	103 %	90-110
Thallium (205)	0.111	0.1	111 %	90-110

*** - calibrated by linear regression*

12065 Lebanon Rd
Mt. Juliet, TN 37122
(615) 758-5858
(800) 767-5859
Fax (615) 758-5859
Tax I.D 62-0814289
Est. 1970

Quality Control Summary
SDG: L735181
URS Corporation - Tucson AZ - 1088308

Test: Trace Metals by Method 6020
Project No: 23446543.0057AA
Project: Holloman AFB EPA ID: TN00003
Collection Date: 11/20/2014
Instrument ID: ICPMS8

Standard Type: ICV
Analysis Date: 11/28/2014 7:28 PM
Analysis Time: 1928
Data File: 112814ICPMS8B

Analyte	Conc.	True Value	Recovery	Limits
Silver (107)	0.104	0.1	104 %	90-110
Arsenic (75)	0.104	0.1	104 %	90-110
Cadmium (111)	0.104	0.1	104 %	90-110
Cobalt (59)	0.106	0.1	106 %	90-110
Chromium (52)	0.108	0.1	108 %	90-110
Selenium (78)	0.106	0.1	106 %	90-110
Selenium (82)	0.0995	0.1	100 %	90-110
Thallium (205)	0.100	0.1	100 %	90-110

Standard Type: ICVLL
Analysis Date: 11/28/2014 7:40 PM
Analysis Time: 1940
Data File: 112814ICPMS8B

Analyte	Conc.
Silver (107)	0.0005
Arsenic (75)	0.0011
Cadmium (111)	0.0005
Cobalt (59)	0.0010
Chromium (52)	0.0011
Selenium (78)	0.0010
Selenium (82)	0.0014
Thallium (205)	0.0010

*** - calibrated by linear regression*

12065 Lebanon Rd
Mt. Juliet, TN 37122
(615) 758-5858
(800) 767-5859
Fax (615) 758-5859
Tax I.D 62-0814289
Est. 1970

Quality Control Summary
SDG: L735181
URS Corporation - Tucson AZ - 1088308

Test: Trace Metals by Method 6020
Project No: 23446543.0057AA
Project: Holloman AFB EPA ID: TN00003
Collection Date: 11/20/2014
Instrument ID: ICPMS8

Standard Type: CCV
Analysis Date: 11/28/2014 8:44 PM
Analysis Time: 2044
Data File: 112814ICPMS8B

Analyte	Conc.	True Value	Recovery	Limits
Silver (107)	0.104	0.1	104 %	90-110
Arsenic (75)	0.105	0.1	105 %	90-110
Cadmium (111)	0.102	0.1	102 %	90-110
Cobalt (59)	0.108	0.1	108 %	90-110
Chromium (52)	0.107	0.1	107 %	90-110
Selenium (78)	0.0990	0.1	99 %	90-110
Selenium (82)	0.100	0.1	100 %	90-110
Thallium (205)	0.102	0.1	102 %	90-110

Standard Type: CCV
Analysis Date: 11/28/2014 9:12 PM
Analysis Time: 2112
Data File: 112814ICPMS8B

Analyte	Conc.	True Value	Recovery	Limits
Silver (107)	0.104	0.1	104 %	90-110
Arsenic (75)	0.104	0.1	104 %	90-110
Cadmium (111)	0.100	0.1	100 %	90-110
Cobalt (59)	0.110	0.1	110 %	90-110
Chromium (52)	0.111	0.1	111 %	90-110
Selenium (78)	0.0939	0.1	94 %	90-110
Selenium (82)	0.101	0.1	101 %	90-110
Thallium (205)	0.108	0.1	108 %	90-110

*** - calibrated by linear regression*

12065 Lebanon Rd
Mt. Juliet, TN 37122
(615) 758-5858
(800) 767-5859
Fax (615) 758-5859
Tax I.D 62-0814289
Est. 1970

Quality Control Summary
SDG: L735181
URS Corporation - Tucson AZ - 1088308

Test: Trace Metals by Method 6020
Project No: 23446543.0057AA
Project: Holloman AFB EPA ID: TN00003
Collection Date: 11/20/2014
Instrument ID: ICPMS8

Standard Type: CCV
Analysis Date: 11/28/2014 9:22 PM
Analysis Time: 2122
Data File: 112814ICPMS8B

Analyte	Conc.	True Value	Recovery	Limits
Silver (107)	0.105	0.1	105 %	90-110
Arsenic (75)	0.103	0.1	103 %	90-110
Cadmium (111)	0.101	0.1	101 %	90-110
Cobalt (59)	0.110	0.1	110 %	90-110
Chromium (52)	0.112	0.1	112 %	90-110
Selenium (78)	0.0947	0.1	95 %	90-110
Selenium (82)	0.101	0.1	101 %	90-110
Thallium (205)	0.109	0.1	109 %	90-110

*** - calibrated by linear regression*

12065 Lebanon Rd
Mt. Juliet, TN 37122
(615) 758-5858
(800) 767-5859
Fax (615) 758-5859
Tax I.D 62-0814289
Est. 1970

Quality Control Summary
SDG: L735181
URS Corporation - Tucson AZ - 1088308

Test: Trace Metals by Method 6020
Project No: 23446543.0057AA
Project: Holloman AFB EPA ID: TN00003
Collection Date: 11/20/2014
Instrument ID: ICPMS8

Standard Type: ICV
Analysis Date: 12/1/2014 3:26 PM
Analysis Time: 1526
Data File: 120114ICPMS8A

Analyte	Conc.	True Value	Recovery	Limits
Nickel (60)	0.107	0.1	107 %	90-110
Antimony (121)	0.105	0.1	105 %	90-110
Selenium (78)	0.105	0.1	105 %	90-110
Selenium (82)	0.103	0.1	103 %	90-110

Standard Type: ICVLL
Analysis Date: 12/1/2014 3:32 PM
Analysis Time: 1532
Data File: 120114ICPMS8A

Analyte	Conc.
Nickel (60)	0.0011
Antimony (121)	0.0010
Selenium (78)	0.0008
Selenium (82)	0.0004

Standard Type: CCV
Analysis Date: 12/1/2014 9:08 PM
Analysis Time: 2108
Data File: 120114ICPMS8A

Analyte	Conc.	True Value	Recovery	Limits
Nickel (60)	0.104	0.1	104 %	90-110
Antimony (121)	0.103	0.1	103 %	90-110
Selenium (78)	0.0965	0.1	96 %	90-110
Selenium (82)	0.100	0.1	100 %	90-110

*** - calibrated by linear regression*

12065 Lebanon Rd
Mt. Juliet, TN 37122
(615) 758-5858
(800) 767-5859
Fax (615) 758-5859
Tax I.D 62-0814289
Est. 1970

Quality Control Summary
SDG: L735181
URS Corporation - Tucson AZ - 1088308

Test: Trace Metals by Method 6020
Project No: 23446543.0057AA
Project: Holloman AFB EPA ID: TN00003
Collection Date: 11/20/2014
Instrument ID: ICPMS8

Standard Type: CCV
Analysis Date: 12/1/2014 9:50 PM
Analysis Time: 2150
Data File: 120114ICPMS8A

Analyte	Conc.	True Value	Recovery	Limits
Nickel (60)	0.105	0.1	105 %	90-110
Antimony (121)	0.0926	0.1	93 %	90-110
Selenium (78)	0.0917	0.1	92 %	90-110
Selenium (82)	0.0964	0.1	96 %	90-110

Standard Type: CCV
Analysis Date: 12/1/2014 10:20 PM
Analysis Time: 2220
Data File: 120114ICPMS8A

Analyte	Conc.	True Value	Recovery	Limits
Nickel (60)	0.107	0.1	107 %	90-110
Antimony (121)	0.0975	0.1	97 %	90-110
Selenium (78)	0.0921	0.1	92 %	90-110
Selenium (82)	0.0983	0.1	98 %	90-110

*** - calibrated by linear regression*

12065 Lebanon Rd
Mt. Juliet, TN 37122
(615) 758-5858
(800) 767-5859
Fax (615) 758-5859
Tax I.D 62-0814289
Est. 1970

Quality Control Summary
SDG: L735181
URS Corporation - Tucson AZ - 1088308

Test: Trace Metals by Method 6020
Project No: 23446543.0057AA
Project: Holloman AFB EPA ID: TN00003
Collection Date: 11/20/2014
Instrument ID: ICPMS8

Standard Type: ICV
Analysis Date: 12/2/2014 4:15 PM
Analysis Time: 1615
Data File: 120214ICPMS8A

Analyte	Conc.	True Value	Recovery	Limits
Nickel (60)	0.105	0.1	105 %	90-110
Lead (208)	0.104	0.1	104 %	90-110
Antimony (121)	0.102	0.1	102 %	90-110
Selenium (78)	0.104	0.1	104 %	90-110
Selenium (82)	0.104	0.1	104 %	90-110

Standard Type: ICVLL
Analysis Date: 12/2/2014 4:25 PM
Analysis Time: 1625
Data File: 120214ICPMS8A

Analyte	Conc.
Nickel (60)	0.0011
Lead (208)	0.0011
Antimony (121)	0.0011
Selenium (78)	0.0010
Selenium (82)	0.0011

Standard Type: CCV
Analysis Date: 12/2/2014 4:44 PM
Analysis Time: 1644
Data File: 120214ICPMS8A

Analyte	Conc.	True Value	Recovery	Limits
Nickel (60)	0.105	0.1	105 %	90-110
Lead (208)	0.104	0.1	104 %	90-110
Antimony (121)	0.103	0.1	103 %	90-110
Selenium (78)	0.104	0.1	104 %	90-110
Selenium (82)	0.101	0.1	101 %	90-110

*** - calibrated by linear regression*

12065 Lebanon Rd
Mt. Juliet, TN 37122
(615) 758-5858
(800) 767-5859
Fax (615) 758-5859
Tax I.D 62-0814289
Est. 1970

Quality Control Summary
SDG: L735181
URS Corporation - Tucson AZ - 1088308

Test: Trace Metals by Method 6020
Project No: 23446543.0057AA
Project: Holloman AFB EPA ID: TN00003
Collection Date: 11/20/2014
Instrument ID: ICPMS8

Standard Type: CCV
Analysis Date: 12/2/2014 5:12 PM
Analysis Time: 1712
Data File: 120214ICPMS8A

Analyte	Conc.	True Value	Recovery	Limits
Nickel (60)	0.104	0.1	104 %	90-110
Lead (208)	0.106	0.1	106 %	90-110
Antimony (121)	0.101	0.1	101 %	90-110
Selenium (78)	0.105	0.1	105 %	90-110
Selenium (82)	0.102	0.1	102 %	90-110

Standard Type: CCV
Analysis Date: 12/2/2014 5:21 PM
Analysis Time: 1721
Data File: 120214ICPMS8A

Analyte	Conc.	True Value	Recovery	Limits
Nickel (60)	0.107	0.1	107 %	90-110
Lead (208)	0.106	0.1	106 %	90-110
Antimony (121)	0.0996	0.1	100 %	90-110
Selenium (78)	0.0992	0.1	99 %	90-110
Selenium (82)	0.103	0.1	103 %	90-110

*** - calibrated by linear regression*

12065 Lebanon Rd
Mt. Juliet, TN 37122
(615) 758-5858
(800) 767-5859
Fax (615) 758-5859
Tax I.D 62-0814289
Est. 1970

Quality Control Summary
SDG: L735181
URS Corporation - Tucson AZ - 1088308

Test: Trace Metals by Method 6020
Project No: 23446543.0057AA
Project: Holloman AFB EPA ID: TN00003
Collection Date: 11/20/2014
Instrument ID: ICPMS8

Standard Type: ICB
Analysis Date: 11/28/2014 1:33 PM
Analysis Time: 1333
Data File: 112814ICPMS8

Analyte	MDL	Conc	Filename
Silver (107)	0.00031	< 0.00031	112814ICPMS8
Arsenic (75)	0.00025	< 0.00025	112814ICPMS8
Cadmium (111)	0.00016	< 0.00016	112814ICPMS8
Cobalt (59)	0.00026	< 0.00026	112814ICPMS8
Chromium (52)	0.00054	< 0.00054	112814ICPMS8
Nickel (60)	0.00035	< 0.00035	112814ICPMS8
Lead (208)	0.00024	< 0.00024	112814ICPMS8
Antimony (121)	0.00021	0.000462	112814ICPMS8
Selenium (78)	0.00038	< 0.00038	112814ICPMS8
Selenium (82)	0.00038	< 0.00038	112814ICPMS8
Thallium (205)	0.00019	< 0.00019	112814ICPMS8

Standard Type: CCB
Analysis Date: 11/28/2014 2:25 PM
Analysis Time: 1425
Data File: 112814ICPMS8

Analyte	MDL	Conc	Filename
Silver (107)	0.00031	< 0.00031	112814ICPMS8
Arsenic (75)	0.00025	< 0.00025	112814ICPMS8
Cadmium (111)	0.00016	< 0.00016	112814ICPMS8
Cobalt (59)	0.00026	< 0.00026	112814ICPMS8
Chromium (52)	0.00054	< 0.00054	112814ICPMS8
Nickel (60)	0.00035	0.000561	112814ICPMS8
Lead (208)	0.00024	< 0.00024	112814ICPMS8
Antimony (121)	0.00021	0.000284	112814ICPMS8
Selenium (78)	0.00038	< 0.00038	112814ICPMS8
Selenium (82)	0.00038	< 0.00038	112814ICPMS8
Thallium (205)	0.00019	< 0.00019	112814ICPMS8

*** - calibrated by linear regression*

12065 Lebanon Rd
Mt. Juliet, TN 37122
(615) 758-5858
(800) 767-5859
Fax (615) 758-5859
Tax I.D 62-0814289
Est. 1970

Quality Control Summary
SDG: L735181
URS Corporation - Tucson AZ - 1088308

Test: Trace Metals by Method 6020
Project No: 23446543.0057AA
Project: Holloman AFB EPA ID: TN00003
Collection Date: 11/20/2014
Instrument ID: ICPMS8

Standard Type: CCB
Analysis Date: 11/28/2014 2:55 PM
Analysis Time: 1455
Data File: 112814ICPMS8

Analyte	MDL	Conc	Filename
Silver (107)	0.00031	< 0.00031	112814ICPMS8
Arsenic (75)	0.00025	< 0.00025	112814ICPMS8
Cadmium (111)	0.00016	< 0.00016	112814ICPMS8
Cobalt (59)	0.00026	< 0.00026	112814ICPMS8
Chromium (52)	0.00054	< 0.00054	112814ICPMS8
Nickel (60)	0.00035	0.00213	112814ICPMS8
Lead (208)	0.00024	< 0.00024	112814ICPMS8
Antimony (121)	0.00021	< 0.00021	112814ICPMS8
Selenium (78)	0.00038	< 0.00038	112814ICPMS8
Selenium (82)	0.00038	< 0.00038	112814ICPMS8
Thallium (205)	0.00019	< 0.00019	112814ICPMS8

Standard Type: CCB
Analysis Date: 11/28/2014 3:27 PM
Analysis Time: 1527
Data File: 112814ICPMS8

Analyte	MDL	Conc	Filename
Silver (107)	0.00031	< 0.00031	112814ICPMS8
Arsenic (75)	0.00025	< 0.00025	112814ICPMS8
Cadmium (111)	0.00016	< 0.00016	112814ICPMS8
Cobalt (59)	0.00026	< 0.00026	112814ICPMS8
Chromium (52)	0.00054	< 0.00054	112814ICPMS8
Nickel (60)	0.00035	0.00176	112814ICPMS8
Lead (208)	0.00024	< 0.00024	112814ICPMS8
Antimony (121)	0.00021	0.000212	112814ICPMS8
Selenium (78)	0.00038	< 0.00038	112814ICPMS8
Selenium (82)	0.00038	< 0.00038	112814ICPMS8
Thallium (205)	0.00019	< 0.00019	112814ICPMS8

*** - calibrated by linear regression*

12065 Lebanon Rd
Mt. Juliet, TN 37122
(615) 758-5858
(800) 767-5859
Fax (615) 758-5859
Tax I.D 62-0814289
Est. 1970

Quality Control Summary
SDG: L735181
URS Corporation - Tucson AZ - 1088308

Test: Trace Metals by Method 6020
Project No: 23446543.0057AA
Project: Holloman AFB EPA ID: TN00003
Collection Date: 11/20/2014
Instrument ID: ICPMS8

Standard Type: ICB
Analysis Date: 11/28/2014 7:30 PM
Analysis Time: 1930
Data File: 112814ICPMS8B

Analyte	MDL	Conc	Filename
Silver (107)	0.00031	< 0.00031	112814ICPMS8B
Arsenic (75)	0.00025	< 0.00025	112814ICPMS8B
Cadmium (111)	0.00016	< 0.00016	112814ICPMS8B
Cobalt (59)	0.00026	< 0.00026	112814ICPMS8B
Chromium (52)	0.00054	< 0.00054	112814ICPMS8B
Nickel (60)	0.00035	< 0.00035	112814ICPMS8B
Lead (208)	0.00024	< 0.00024	112814ICPMS8B
Antimony (121)	0.00021	0.000399	112814ICPMS8B
Selenium (78)	0.00038	< 0.00038	112814ICPMS8B
Selenium (82)	0.00038	< 0.00038	112814ICPMS8B
Thallium (205)	0.00019	< 0.00019	112814ICPMS8B

Standard Type: CCB
Analysis Date: 11/28/2014 8:09 PM
Analysis Time: 2009
Data File: 112814ICPMS8B

Analyte	MDL	Conc	Filename
Silver (107)	0.00031	< 0.00031	112814ICPMS8B
Arsenic (75)	0.00025	< 0.00025	112814ICPMS8B
Cadmium (111)	0.00016	< 0.00016	112814ICPMS8B
Cobalt (59)	0.00026	< 0.00026	112814ICPMS8B
Chromium (52)	0.00054	< 0.00054	112814ICPMS8B
Nickel (60)	0.00035	< 0.00035	112814ICPMS8B
Lead (208)	0.00024	< 0.00024	112814ICPMS8B
Antimony (121)	0.00021	0.000242	112814ICPMS8B
Selenium (78)	0.00038	< 0.00038	112814ICPMS8B
Selenium (82)	0.00038	< 0.00038	112814ICPMS8B
Thallium (205)	0.00019	< 0.00019	112814ICPMS8B

*** - calibrated by linear regression*

12065 Lebanon Rd
Mt. Juliet, TN 37122
(615) 758-5858
(800) 767-5859
Fax (615) 758-5859
Tax I.D 62-0814289
Est. 1970

Quality Control Summary
SDG: L735181
URS Corporation - Tucson AZ - 1088308

Test: Trace Metals by Method 6020
Project No: 23446543.0057AA
Project: Holloman AFB EPA ID: TN00003
Collection Date: 11/20/2014
Instrument ID: ICPMS8

Standard Type: CCB
Analysis Date: 11/28/2014 8:37 PM
Analysis Time: 2037
Data File: 112814ICPMS8B

Analyte	MDL	Conc	Filename
Silver (107)	0.00031	< 0.00031	112814ICPMS8B
Arsenic (75)	0.00025	< 0.00025	112814ICPMS8B
Cadmium (111)	0.00016	< 0.00016	112814ICPMS8B
Cobalt (59)	0.00026	< 0.00026	112814ICPMS8B
Chromium (52)	0.00054	< 0.00054	112814ICPMS8B
Nickel (60)	0.00035	< 0.00035	112814ICPMS8B
Lead (208)	0.00024	< 0.00024	112814ICPMS8B
Antimony (121)	0.00021	< 0.00021	112814ICPMS8B
Selenium (78)	0.00038	< 0.00038	112814ICPMS8B
Selenium (82)	0.00038	< 0.00038	112814ICPMS8B
Thallium (205)	0.00019	< 0.00019	112814ICPMS8B

Standard Type: CCB
Analysis Date: 11/28/2014 8:46 PM
Analysis Time: 2046
Data File: 112814ICPMS8B

Analyte	MDL	Conc	Filename
Silver (107)	0.00031	< 0.00031	112814ICPMS8B
Arsenic (75)	0.00025	< 0.00025	112814ICPMS8B
Cadmium (111)	0.00016	< 0.00016	112814ICPMS8B
Cobalt (59)	0.00026	< 0.00026	112814ICPMS8B
Chromium (52)	0.00054	< 0.00054	112814ICPMS8B
Nickel (60)	0.00035	< 0.00035	112814ICPMS8B
Lead (208)	0.00024	< 0.00024	112814ICPMS8B
Antimony (121)	0.00021	< 0.00021	112814ICPMS8B
Selenium (78)	0.00038	< 0.00038	112814ICPMS8B
Selenium (82)	0.00038	< 0.00038	112814ICPMS8B
Thallium (205)	0.00019	< 0.00019	112814ICPMS8B

*** - calibrated by linear regression*

12065 Lebanon Rd
Mt. Juliet, TN 37122
(615) 758-5858
(800) 767-5859
Fax (615) 758-5859
Tax I.D 62-0814289
Est. 1970

Quality Control Summary
SDG: L735181
URS Corporation - Tucson AZ - 1088308

Test: Trace Metals by Method 6020
Project No: 23446543.0057AA
Project: Holloman AFB EPA ID: TN00003
Collection Date: 11/20/2014
Instrument ID: ICPMS8

Standard Type: ICB
Analysis Date: 11/28/2014 1:33 PM
Analysis Time: 1333
Data File: 112814ICPMS8

Analyte	MDL	Conc	Filename
Silver (107)	0.00031	< 0.00031	112814ICPMS8
Arsenic (75)	0.00025	< 0.00025	112814ICPMS8
Cadmium (111)	0.00016	< 0.00016	112814ICPMS8
Cobalt (59)	0.00026	< 0.00026	112814ICPMS8
Chromium (52)	0.00054	< 0.00054	112814ICPMS8
Selenium (78)	0.00038	< 0.00038	112814ICPMS8
Selenium (82)	0.00038	< 0.00038	112814ICPMS8
Thallium (205)	0.00019	< 0.00019	112814ICPMS8

Standard Type: CCB
Analysis Date: 11/28/2014 3:27 PM
Analysis Time: 1527
Data File: 112814ICPMS8

Analyte	MDL	Conc	Filename
Silver (107)	0.00031	< 0.00031	112814ICPMS8
Arsenic (75)	0.00025	< 0.00025	112814ICPMS8
Cadmium (111)	0.00016	< 0.00016	112814ICPMS8
Cobalt (59)	0.00026	< 0.00026	112814ICPMS8
Chromium (52)	0.00054	< 0.00054	112814ICPMS8
Selenium (78)	0.00038	< 0.00038	112814ICPMS8
Selenium (82)	0.00038	< 0.00038	112814ICPMS8
Thallium (205)	0.00019	< 0.00019	112814ICPMS8

*** - calibrated by linear regression*

12065 Lebanon Rd
Mt. Juliet, TN 37122
(615) 758-5858
(800) 767-5859
Fax (615) 758-5859
Tax I.D 62-0814289
Est. 1970

Quality Control Summary
SDG: L735181
URS Corporation - Tucson AZ - 1088308

Test: Trace Metals by Method 6020
Project No: 23446543.0057AA
Project: Holloman AFB EPA ID: TN00003
Collection Date: 11/20/2014
Instrument ID: ICPMS8

Standard Type: CCB
Analysis Date: 11/28/2014 3:59 PM
Analysis Time: 1559
Data File: 112814ICPMS8

Analyte	MDL	Conc	Filename
Silver (107)	0.00031	< 0.00031	112814ICPMS8
Arsenic (75)	0.00025	< 0.00025	112814ICPMS8
Cadmium (111)	0.00016	< 0.00016	112814ICPMS8
Cobalt (59)	0.00026	< 0.00026	112814ICPMS8
Chromium (52)	0.00054	< 0.00054	112814ICPMS8
Selenium (78)	0.00038	< 0.00038	112814ICPMS8
Selenium (82)	0.00038	< 0.00038	112814ICPMS8
Thallium (205)	0.00019	< 0.00019	112814ICPMS8

Standard Type: CCB
Analysis Date: 11/28/2014 4:09 PM
Analysis Time: 1609
Data File: 112814ICPMS8

Analyte	MDL	Conc	Filename
Silver (107)	0.00031	< 0.00031	112814ICPMS8
Arsenic (75)	0.00025	< 0.00025	112814ICPMS8
Cadmium (111)	0.00016	< 0.00016	112814ICPMS8
Cobalt (59)	0.00026	< 0.00026	112814ICPMS8
Chromium (52)	0.00054	< 0.00054	112814ICPMS8
Selenium (78)	0.00038	< 0.00038	112814ICPMS8
Selenium (82)	0.00038	< 0.00038	112814ICPMS8
Thallium (205)	0.00019	< 0.00019	112814ICPMS8

*** - calibrated by linear regression*

12065 Lebanon Rd
Mt. Juliet, TN 37122
(615) 758-5858
(800) 767-5859
Fax (615) 758-5859
Tax I.D 62-0814289
Est. 1970

Quality Control Summary
SDG: L735181
URS Corporation - Tucson AZ - 1088308

Test: Trace Metals by Method 6020
Project No: 23446543.0057AA
Project: Holloman AFB EPA ID: TN00003
Collection Date: 11/20/2014
Instrument ID: ICPMS8

Standard Type: ICB
Analysis Date: 11/28/2014 7:30 PM
Analysis Time: 1930
Data File: 112814ICPMS8B

Analyte	MDL	Conc	Filename
Silver (107)	0.00031	< 0.00031	112814ICPMS8B
Arsenic (75)	0.00025	< 0.00025	112814ICPMS8B
Cadmium (111)	0.00016	< 0.00016	112814ICPMS8B
Cobalt (59)	0.00026	< 0.00026	112814ICPMS8B
Chromium (52)	0.00054	< 0.00054	112814ICPMS8B
Selenium (78)	0.00038	< 0.00038	112814ICPMS8B
Selenium (82)	0.00038	< 0.00038	112814ICPMS8B
Thallium (205)	0.00019	< 0.00019	112814ICPMS8B

Standard Type: CCB
Analysis Date: 11/28/2014 8:46 PM
Analysis Time: 2046
Data File: 112814ICPMS8B

Analyte	MDL	Conc	Filename
Silver (107)	0.00031	< 0.00031	112814ICPMS8B
Arsenic (75)	0.00025	< 0.00025	112814ICPMS8B
Cadmium (111)	0.00016	< 0.00016	112814ICPMS8B
Cobalt (59)	0.00026	< 0.00026	112814ICPMS8B
Chromium (52)	0.00054	< 0.00054	112814ICPMS8B
Selenium (78)	0.00038	< 0.00038	112814ICPMS8B
Selenium (82)	0.00038	< 0.00038	112814ICPMS8B
Thallium (205)	0.00019	< 0.00019	112814ICPMS8B

*** - calibrated by linear regression*

12065 Lebanon Rd
Mt. Juliet, TN 37122
(615) 758-5858
(800) 767-5859
Fax (615) 758-5859
Tax I.D 62-0814289
Est. 1970

Quality Control Summary
SDG: L735181
URS Corporation - Tucson AZ - 1088308

Test: Trace Metals by Method 6020
Project No: 23446543.0057AA
Project: Holloman AFB EPA ID: TN00003
Collection Date: 11/20/2014
Instrument ID: ICPMS8

Standard Type: CCB
Analysis Date: 11/28/2014 9:14 PM
Analysis Time: 2114
Data File: 112814ICPMS8B

Analyte	MDL	Conc	Filename
Silver (107)	0.00031	< 0.00031	112814ICPMS8B
Arsenic (75)	0.00025	< 0.00025	112814ICPMS8B
Cadmium (111)	0.00016	< 0.00016	112814ICPMS8B
Cobalt (59)	0.00026	< 0.00026	112814ICPMS8B
Chromium (52)	0.00054	< 0.00054	112814ICPMS8B
Selenium (78)	0.00038	< 0.00038	112814ICPMS8B
Selenium (82)	0.00038	< 0.00038	112814ICPMS8B
Thallium (205)	0.00019	< 0.00019	112814ICPMS8B

Standard Type: CCB
Analysis Date: 11/28/2014 9:23 PM
Analysis Time: 2123
Data File: 112814ICPMS8B

Analyte	MDL	Conc	Filename
Silver (107)	0.00031	< 0.00031	112814ICPMS8B
Arsenic (75)	0.00025	< 0.00025	112814ICPMS8B
Cadmium (111)	0.00016	< 0.00016	112814ICPMS8B
Cobalt (59)	0.00026	< 0.00026	112814ICPMS8B
Chromium (52)	0.00054	< 0.00054	112814ICPMS8B
Selenium (78)	0.00038	< 0.00038	112814ICPMS8B
Selenium (82)	0.00038	< 0.00038	112814ICPMS8B
Thallium (205)	0.00019	< 0.00019	112814ICPMS8B

*** - calibrated by linear regression*

12065 Lebanon Rd
Mt. Juliet, TN 37122
(615) 758-5858
(800) 767-5859
Fax (615) 758-5859
Tax I.D 62-0814289
Est. 1970

Quality Control Summary
SDG: L735181
URS Corporation - Tucson AZ - 1088308

Test: Trace Metals by Method 6020
Project No: 23446543.0057AA
Project: Holloman AFB EPA ID: TN00003
Collection Date: 11/20/2014
Instrument ID: ICPMS8

Standard Type: ICB
Analysis Date: 12/1/2014 3:29 PM
Analysis Time: 1529
Data File: 120114ICPMS8A

Analyte	MDL	Conc	Filename
Nickel (60)	0.00035	< 0.00035	120114ICPMS8A
Antimony (121)	0.00021	0.000308	120114ICPMS8A
Selenium (78)	0.00038	< 0.00038	120114ICPMS8A
Selenium (82)	0.00038	< 0.00038	120114ICPMS8A

Standard Type: CCB
Analysis Date: 12/1/2014 9:10 PM
Analysis Time: 2110
Data File: 120114ICPMS8A

Analyte	MDL	Conc	Filename
Nickel (60)	0.00035	< 0.00035	120114ICPMS8A
Antimony (121)	0.00021	< 0.00021	120114ICPMS8A
Selenium (78)	0.00038	0.000495	120114ICPMS8A
Selenium (82)	0.00038	< 0.00038	120114ICPMS8A

Standard Type: CCB
Analysis Date: 12/1/2014 9:52 PM
Analysis Time: 2152
Data File: 120114ICPMS8A

Analyte	MDL	Conc	Filename
Nickel (60)	0.00035	< 0.00035	120114ICPMS8A
Antimony (121)	0.00021	< 0.00021	120114ICPMS8A
Selenium (78)	0.00038	< 0.00038	120114ICPMS8A
Selenium (82)	0.00038	< 0.00038	120114ICPMS8A

*** - calibrated by linear regression*

12065 Lebanon Rd
Mt. Juliet, TN 37122
(615) 758-5858
(800) 767-5859
Fax (615) 758-5859
Tax I.D 62-0814289
Est. 1970

Quality Control Summary
SDG: L735181
URS Corporation - Tucson AZ - 1088308

Test: Trace Metals by Method 6020
Project No: 23446543.0057AA
Project: Holloman AFB EPA ID: TN00003
Collection Date: 11/20/2014
Instrument ID: ICPMS8

Standard Type: CCB
Analysis Date: 12/1/2014 10:22 PM
Analysis Time: 2222
Data File: 120114ICPMS8A

Analyte	MDL	Conc	Filename
Nickel (60)	0.00035	< 0.00035	120114ICPMS8A
Antimony (121)	0.00021	< 0.00021	120114ICPMS8A
Selenium (78)	0.00038	< 0.00038	120114ICPMS8A
Selenium (82)	0.00038	< 0.00038	120114ICPMS8A

*** - calibrated by linear regression*

12065 Lebanon Rd
Mt. Juliet, TN 37122
(615) 758-5858
(800) 767-5859
Fax (615) 758-5859
Tax I.D 62-0814289
Est. 1970

Quality Control Summary
SDG: L735181
URS Corporation - Tucson AZ - 1088308

Test: Trace Metals by Method 6020
Project No: 23446543.0057AA
Project: Holloman AFB EPA ID: TN00003
Collection Date: 11/20/2014
Instrument ID: ICPMS8

Standard Type: ICB
Analysis Date: 12/2/2014 4:23 PM
Analysis Time: 1623
Data File: 120214ICPMS8A

Analyte	MDL	Conc	Filename
Nickel (60)	0.00035	< 0.00035	120214ICPMS8A
Lead (208)	0.00024	< 0.00024	120214ICPMS8A
Antimony (121)	0.00021	< 0.00021	120214ICPMS8A
Selenium (78)	0.00038	0.000450	120214ICPMS8A
Selenium (82)	0.00038	< 0.00038	120214ICPMS8A

Standard Type: CCB
Analysis Date: 12/2/2014 4:46 PM
Analysis Time: 1646
Data File: 120214ICPMS8A

Analyte	MDL	Conc	Filename
Nickel (60)	0.00035	< 0.00035	120214ICPMS8A
Lead (208)	0.00024	< 0.00024	120214ICPMS8A
Antimony (121)	0.00021	0.000397	120214ICPMS8A
Selenium (78)	0.00038	< 0.00038	120214ICPMS8A
Selenium (82)	0.00038	< 0.00038	120214ICPMS8A

*** - calibrated by linear regression*

12065 Lebanon Rd
Mt. Juliet, TN 37122
(615) 758-5858
(800) 767-5859
Fax (615) 758-5859
Tax I.D 62-0814289
Est. 1970

Quality Control Summary
SDG: L735181
URS Corporation - Tucson AZ - 1088308

Test: Trace Metals by Method 6020
Project No: 23446543.0057AA
Project: Holloman AFB EPA ID: TN00003
Collection Date: 11/20/2014
Instrument ID: ICPMS8

Standard Type: CCB
Analysis Date: 12/2/2014 5:14 PM
Analysis Time: 1714
Data File: 120214ICPMS8A

Analyte	MDL	Conc	Filename
Nickel (60)	0.00035	< 0.00035	120214ICPMS8A
Lead (208)	0.00024	< 0.00024	120214ICPMS8A
Antimony (121)	0.00021	0.000347	120214ICPMS8A
Selenium (78)	0.00038	< 0.00038	120214ICPMS8A
Selenium (82)	0.00038	0.000444	120214ICPMS8A

Standard Type: CCB
Analysis Date: 12/2/2014 5:23 PM
Analysis Time: 1723
Data File: 120214ICPMS8A

Analyte	MDL	Conc	Filename
Nickel (60)	0.00035	< 0.00035	120214ICPMS8A
Lead (208)	0.00024	< 0.00024	120214ICPMS8A
Antimony (121)	0.00021	0.000374	120214ICPMS8A
Selenium (78)	0.00038	< 0.00038	120214ICPMS8A
Selenium (82)	0.00038	< 0.00038	120214ICPMS8A

*** - calibrated by linear regression*

12065 Lebanon Rd
Mt. Juliet, TN 37122
(615) 758-5858
(800) 767-5859
Fax (615) 758-5859
Tax I.D 62-0814289
Est. 1970

Quality Control Summary
SDG: L735181
URS Corporation - Tucson AZ - 1088308

Test: Trace Metals by Method 6020
Project No: 23446543.0057AA
Project: Holloman AFB EPA ID: TN00003
Collection Date: 11/20/2014
Instrument ID: ICPMS8

Standard Type : ICSA
Analysis Date: 11/28/2014 1:38 PM
Analysis Time: 1338
Data File: 112814ICPMS8

Analyte	Conc.	True Value	Recovery	Limits
SILVER (107)	0.0001	0		80 - 120
ALUMINUM (27)	97.4	100	97 %	80 - 120
ARSENIC (75)	0.0002	0		80 - 120
BORON (10)	0.0053	0		80 - 120
BORON (11)	0.0053	0		80 - 120
BARIUM (137)	0.0069	0		80 - 120
BERYLLIUM (9)	0.0000	0		80 - 120
CALCIUM (43)	87.5	100	88 %	80 - 120
CADMIUM (111)	0.0006	0		80 - 120
COBALT (59)	0.0016	0		80 - 120
CHROMIUM (52)	0.0008	0		80 - 120
COPPER (63)	0.0010	0		80 - 120
IRON (56)	95.9	5.00	1917 %	80 - 120
POTASSIUM (39)	90.7	100	91 %	80 - 120
MAGNESIUM (24)	95.2	100	95 %	80 - 120
MANGANESE (55)	0.0056	0		80 - 120
MOLYBDENUM (95)	2.03	1.00	203 %	80 - 120
SODIUM (23)	95.1	100	95 %	80 - 120
NICKEL (60)	0.0022	0		80 - 120
LEAD (208)	0.0004	0		80 - 120
ANTIMONY (121)	0.0005	0		80 - 120
SELENIUM (78)	0.0001	0		80 - 120
SELENIUM (82)	0.0005	0		80 - 120
TIN (118)	0.0003	0		80 - 120
STRONTIUM (88)	0.0005	0		80 - 120
TITANIUM (47)	1.96	0		80 - 120
THALLIUM (205)	0.0001	0		80 - 120
VANADIUM (51)	0.0001	0		80 - 120
ZINC (66)	0.0018	0		80 - 120

*** - calibrated by linear regression*

12065 Lebanon Rd
Mt. Juliet, TN 37122
(615) 758-5858
(800) 767-5859
Fax (615) 758-5859
Tax I.D 62-0814289
Est. 1970

Quality Control Summary
SDG: L735181
URS Corporation - Tucson AZ - 1088308

Test: Trace Metals by Method 6020
Project No: 23446543.0057AA
Project: Holloman AFB EPA ID: TN00003
Collection Date: 11/20/2014
Instrument ID: ICPMS8

Standard Type : ICSAB
Analysis Date: 11/28/2014 1:40 PM
Analysis Time: 1340
Data File: 112814ICPMS8

Analyte	Conc.	True Value	Recovery	Limits
SILVER (107)	0.0208	0.0200	104 %	80 - 120
ALUMINUM (27)	100	100	100 %	80 - 120
ARSENIC (75)	0.0203	0.0200	101 %	80 - 120
BORON (10)	0.0239	0		80 - 120
BORON (11)	0.0235	0		80 - 120
BARIUM (137)	0.0283	0.0200	142 %	80 - 120
BERYLLIUM (9)	0.0191	0.0200	96 %	80 - 120
CALCIUM (43)	91.1	100	91 %	80 - 120
CADMIUM (111)	0.0210	0.0200	105 %	80 - 120
COBALT (59)	0.0211	0.0200	106 %	80 - 120
CHROMIUM (52)	0.0212	0.0200	106 %	80 - 120
COPPER (63)	0.0201	0.0200	100 %	80 - 120
IRON (56)	97.1	5.00	1943 %	80 - 120
POTASSIUM (39)	93.5	100	94 %	80 - 120
MAGNESIUM (24)	97.3	100	97 %	80 - 120
MANGANESE (55)	0.0254	0.0200	127 %	80 - 120
MOLYBDENUM (95)	2.03	1.00	203 %	80 - 120
SODIUM (23)	98.2	100	98 %	80 - 120
NICKEL (60)	0.0219	0.0200	109 %	80 - 120
LEAD (208)	0.0202	0.0200	101 %	80 - 120
ANTIMONY (121)	0.0212	0.0200	106 %	80 - 120
SELENIUM (78)	0.0186	0.0200	93 %	80 - 120
SELENIUM (82)	0.0203	0.0200	101 %	80 - 120
TIN (118)	0.0212	0.0200	106 %	80 - 120
STRONTIUM (88)	0.0199	0		80 - 120
TITANIUM (47)	2.05	0		80 - 120
THALLIUM (205)	0.0189	0.0200	94 %	80 - 120
VANADIUM (51)	0.0206	0.0200	103 %	80 - 120
ZINC (66)	0.0209	0.0200	104 %	80 - 120

*** - calibrated by linear regression*

12065 Lebanon Rd
Mt. Juliet, TN 37122
(615) 758-5858
(800) 767-5859
Fax (615) 758-5859
Tax I.D 62-0814289
Est. 1970

Quality Control Summary
SDG: L735181
URS Corporation - Tucson AZ - 1088308

Test: Trace Metals by Method 6020
Project No: 23446543.0057AA
Project: Holloman AFB EPA ID: TN00003
Collection Date: 11/20/2014
Instrument ID: ICPMS8

Standard Type : ICSA
Analysis Date: 11/28/2014 7:33 PM
Analysis Time: 1933
Data File: 112814ICPMS8B

Analyte	Conc.	True Value	Recovery	Limits
SILVER (107)	0.0002	0		80 - 120
ALUMINUM (27)	106	100	106 %	80 - 120
ARSENIC (75)	0.0003	0		80 - 120
BORON (10)	0.0051	0		80 - 120
BORON (11)	0.0049	0		80 - 120
BARIUM (137)	0.0069	0		80 - 120
BERYLLIUM (9)	0.0000	0		80 - 120
CALCIUM (43)	90.9	100	91 %	80 - 120
CADMIUM (111)	0.0005	0		80 - 120
COBALT (59)	0.0016	0		80 - 120
CHROMIUM (52)	0.0010	0		80 - 120
COPPER (63)	0.0011	0		80 - 120
IRON (56)	99.6	5.00	1991 %	80 - 120
POTASSIUM (39)	97.9	100	98 %	80 - 120
MAGNESIUM (24)	99.0	100	99 %	80 - 120
MANGANESE (55)	0.0055	0		80 - 120
MOLYBDENUM (95)	2.09	1.00	209 %	80 - 120
SODIUM (23)	98.6	100	99 %	80 - 120
NICKEL (60)	0.0026	0		80 - 120
LEAD (208)	0.0004	0		80 - 120
ANTIMONY (121)	0.0006	0		80 - 120
SELENIUM (78)	0.0007	0		80 - 120
SELENIUM (82)	0.0001	0		80 - 120
TIN (118)	0.0002	0		80 - 120
STRONTIUM (88)	0.0005	0		80 - 120
TITANIUM (47)	2.07	0		80 - 120
THALLIUM (205)	0.0000	0		80 - 120
VANADIUM (51)	0.0001	0		80 - 120
ZINC (66)	0.0013	0		80 - 120

*** - calibrated by linear regression*

12065 Lebanon Rd
Mt. Juliet, TN 37122
(615) 758-5858
(800) 767-5859
Fax (615) 758-5859
Tax I.D 62-0814289
Est. 1970

Quality Control Summary
SDG: L735181
URS Corporation - Tucson AZ - 1088308

Test: Trace Metals by Method 6020
Project No: 23446543.0057AA
Project: Holloman AFB EPA ID: TN00003
Collection Date: 11/20/2014
Instrument ID: ICPMS8

Standard Type : ICSAB
Analysis Date: 11/28/2014 7:36 PM
Analysis Time: 1936
Data File: 112814ICPMS8B

Analyte	Conc.	True Value	Recovery	Limits
SILVER (107)	0.0214	0.0200	107 %	80 - 120
ALUMINUM (27)	108	100	108 %	80 - 120
ARSENIC (75)	0.0205	0.0200	103 %	80 - 120
BORON (10)	0.0226	0		80 - 120
BORON (11)	0.0233	0		80 - 120
BARIUM (137)	0.0293	0.0200	147 %	80 - 120
BERYLLIUM (9)	0.0193	0.0200	97 %	80 - 120
CALCIUM (43)	94.5	100	94 %	80 - 120
CADMIUM (111)	0.0218	0.0200	109 %	80 - 120
COBALT (59)	0.0221	0.0200	110 %	80 - 120
CHROMIUM (52)	0.0220	0.0200	110 %	80 - 120
COPPER (63)	0.0213	0.0200	107 %	80 - 120
IRON (56)	102	5.00	2040 %	80 - 120
POTASSIUM (39)	99.8	100	100 %	80 - 120
MAGNESIUM (24)	101	100	101 %	80 - 120
MANGANESE (55)	0.0264	0.0200	132 %	80 - 120
MOLYBDENUM (95)	2.15	1.00	215 %	80 - 120
SODIUM (23)	101	100	101 %	80 - 120
NICKEL (60)	0.0230	0.0200	115 %	80 - 120
LEAD (208)	0.0206	0.0200	103 %	80 - 120
ANTIMONY (121)	0.0225	0.0200	112 %	80 - 120
SELENIUM (78)	0.0187	0.0200	93 %	80 - 120
SELENIUM (82)	0.0203	0.0200	102 %	80 - 120
TIN (118)	0.0216	0.0200	108 %	80 - 120
STRONTIUM (88)	0.0206	0		80 - 120
TITANIUM (47)	2.13	0		80 - 120
THALLIUM (205)	0.0192	0.0200	96 %	80 - 120
VANADIUM (51)	0.0215	0.0200	107 %	80 - 120
ZINC (66)	0.0218	0.0200	109 %	80 - 120

*** - calibrated by linear regression*

12065 Lebanon Rd
Mt. Juliet, TN 37122
(615) 758-5858
(800) 767-5859
Fax (615) 758-5859
Tax I.D 62-0814289
Est. 1970

Quality Control Summary
SDG: L735181
URS Corporation - Tucson AZ - 1088308

Test: Trace Metals by Method 6020
Project No: 23446543.0057AA
Project: Holloman AFB EPA ID: TN00003
Collection Date: 11/20/2014
Instrument ID: ICPMS8

Standard Type : ICSA
Analysis Date: 11/28/2014 1:38 PM
Analysis Time: 1338
Data File: 112814ICPMS8

Analyte	Conc.	True Value	Recovery	Limits
SILVER (107)	0.0001	0		80 - 120
ALUMINUM (27)	97.4	100	97 %	80 - 120
ARSENIC (75)	0.0002	0		80 - 120
BORON (10)	0.0053	0		80 - 120
BORON (11)	0.0053	0		80 - 120
BARIUM (137)	0.0069	0		80 - 120
BERYLLIUM (9)	0.0000	0		80 - 120
CALCIUM (43)	87.5	100	88 %	80 - 120
CADMIUM (111)	0.0006	0		80 - 120
COBALT (59)	0.0016	0		80 - 120
CHROMIUM (52)	0.0008	0		80 - 120
COPPER (63)	0.0010	0		80 - 120
IRON (56)	95.9	5.00	1917 %	80 - 120
POTASSIUM (39)	90.7	100	91 %	80 - 120
MAGNESIUM (24)	95.2	100	95 %	80 - 120
MANGANESE (55)	0.0056	0		80 - 120
MOLYBDENUM (95)	2.03	1.00	203 %	80 - 120
SODIUM (23)	95.1	100	95 %	80 - 120
NICKEL (60)	0.0022	0		80 - 120
LEAD (208)	0.0004	0		80 - 120
ANTIMONY (121)	0.0005	0		80 - 120
SELENIUM (78)	0.0001	0		80 - 120
SELENIUM (82)	0.0005	0		80 - 120
TIN (118)	0.0003	0		80 - 120
STRONTIUM (88)	0.0005	0		80 - 120
TITANIUM (47)	1.96	0		80 - 120
THALLIUM (205)	0.0001	0		80 - 120
VANADIUM (51)	0.0001	0		80 - 120
ZINC (66)	0.0018	0		80 - 120

*** - calibrated by linear regression*

12065 Lebanon Rd
Mt. Juliet, TN 37122
(615) 758-5858
(800) 767-5859
Fax (615) 758-5859
Tax I.D 62-0814289
Est. 1970

Quality Control Summary
SDG: L735181
URS Corporation - Tucson AZ - 1088308

Test: Trace Metals by Method 6020
Project No: 23446543.0057AA
Project: Holloman AFB EPA ID: TN00003
Collection Date: 11/20/2014
Instrument ID: ICPMS8

Standard Type : ICSAB
Analysis Date: 11/28/2014 1:40 PM
Analysis Time: 1340
Data File: 112814ICPMS8

Analyte	Conc.	True Value	Recovery	Limits
SILVER (107)	0.0208	0.0200	104 %	80 - 120
ALUMINUM (27)	100	100	100 %	80 - 120
ARSENIC (75)	0.0203	0.0200	101 %	80 - 120
BORON (10)	0.0239	0		80 - 120
BORON (11)	0.0235	0		80 - 120
BARIUM (137)	0.0283	0.0200	142 %	80 - 120
BERYLLIUM (9)	0.0191	0.0200	96 %	80 - 120
CALCIUM (43)	91.1	100	91 %	80 - 120
CADMIUM (111)	0.0210	0.0200	105 %	80 - 120
COBALT (59)	0.0211	0.0200	106 %	80 - 120
CHROMIUM (52)	0.0212	0.0200	106 %	80 - 120
COPPER (63)	0.0201	0.0200	100 %	80 - 120
IRON (56)	97.1	5.00	1943 %	80 - 120
POTASSIUM (39)	93.5	100	94 %	80 - 120
MAGNESIUM (24)	97.3	100	97 %	80 - 120
MANGANESE (55)	0.0254	0.0200	127 %	80 - 120
MOLYBDENUM (95)	2.03	1.00	203 %	80 - 120
SODIUM (23)	98.2	100	98 %	80 - 120
NICKEL (60)	0.0219	0.0200	109 %	80 - 120
LEAD (208)	0.0202	0.0200	101 %	80 - 120
ANTIMONY (121)	0.0212	0.0200	106 %	80 - 120
SELENIUM (78)	0.0186	0.0200	93 %	80 - 120
SELENIUM (82)	0.0203	0.0200	101 %	80 - 120
TIN (118)	0.0212	0.0200	106 %	80 - 120
STRONTIUM (88)	0.0199	0		80 - 120
TITANIUM (47)	2.05	0		80 - 120
THALLIUM (205)	0.0189	0.0200	94 %	80 - 120
VANADIUM (51)	0.0206	0.0200	103 %	80 - 120
ZINC (66)	0.0209	0.0200	104 %	80 - 120

*** - calibrated by linear regression*

12065 Lebanon Rd
Mt. Juliet, TN 37122
(615) 758-5858
(800) 767-5859
Fax (615) 758-5859
Tax I.D 62-0814289
Est. 1970

Quality Control Summary
SDG: L735181
URS Corporation - Tucson AZ - 1088308

Test: Trace Metals by Method 6020
Project No: 23446543.0057AA
Project: Holloman AFB EPA ID: TN00003
Collection Date: 11/20/2014
Instrument ID: ICPMS8

Standard Type : ICSA
Analysis Date: 11/28/2014 7:33 PM
Analysis Time: 1933
Data File: 112814ICPMS8B

Analyte	Conc.	True Value	Recovery	Limits
SILVER (107)	0.0002	0		80 - 120
ALUMINUM (27)	106	100	106 %	80 - 120
ARSENIC (75)	0.0003	0		80 - 120
BORON (10)	0.0051	0		80 - 120
BORON (11)	0.0049	0		80 - 120
BARIUM (137)	0.0069	0		80 - 120
BERYLLIUM (9)	0.0000	0		80 - 120
CALCIUM (43)	90.9	100	91 %	80 - 120
CADMIUM (111)	0.0005	0		80 - 120
COBALT (59)	0.0016	0		80 - 120
CHROMIUM (52)	0.0010	0		80 - 120
COPPER (63)	0.0011	0		80 - 120
IRON (56)	99.6	5.00	1991 %	80 - 120
POTASSIUM (39)	97.9	100	98 %	80 - 120
MAGNESIUM (24)	99.0	100	99 %	80 - 120
MANGANESE (55)	0.0055	0		80 - 120
MOLYBDENUM (95)	2.09	1.00	209 %	80 - 120
SODIUM (23)	98.6	100	99 %	80 - 120
NICKEL (60)	0.0026	0		80 - 120
LEAD (208)	0.0004	0		80 - 120
ANTIMONY (121)	0.0006	0		80 - 120
SELENIUM (78)	0.0007	0		80 - 120
SELENIUM (82)	0.0001	0		80 - 120
TIN (118)	0.0002	0		80 - 120
STRONTIUM (88)	0.0005	0		80 - 120
TITANIUM (47)	2.07	0		80 - 120
THALLIUM (205)	0.0000	0		80 - 120
VANADIUM (51)	0.0001	0		80 - 120
ZINC (66)	0.0013	0		80 - 120

*** - calibrated by linear regression*

12065 Lebanon Rd
Mt. Juliet, TN 37122
(615) 758-5858
(800) 767-5859
Fax (615) 758-5859
Tax I.D 62-0814289
Est. 1970

Quality Control Summary
SDG: L735181
URS Corporation - Tucson AZ - 1088308

Test: Trace Metals by Method 6020
Project No: 23446543.0057AA
Project: Holloman AFB EPA ID: TN00003
Collection Date: 11/20/2014
Instrument ID: ICPMS8

Standard Type : ICSAB
Analysis Date: 11/28/2014 7:36 PM
Analysis Time: 1936
Data File: 112814ICPMS8B

Analyte	Conc.	True Value	Recovery	Limits
SILVER (107)	0.0214	0.0200	107 %	80 - 120
ALUMINUM (27)	108	100	108 %	80 - 120
ARSENIC (75)	0.0205	0.0200	103 %	80 - 120
BORON (10)	0.0226	0		80 - 120
BORON (11)	0.0233	0		80 - 120
BARIUM (137)	0.0293	0.0200	147 %	80 - 120
BERYLLIUM (9)	0.0193	0.0200	97 %	80 - 120
CALCIUM (43)	94.5	100	94 %	80 - 120
CADMIUM (111)	0.0218	0.0200	109 %	80 - 120
COBALT (59)	0.0221	0.0200	110 %	80 - 120
CHROMIUM (52)	0.0220	0.0200	110 %	80 - 120
COPPER (63)	0.0213	0.0200	107 %	80 - 120
IRON (56)	102	5.00	2040 %	80 - 120
POTASSIUM (39)	99.8	100	100 %	80 - 120
MAGNESIUM (24)	101	100	101 %	80 - 120
MANGANESE (55)	0.0264	0.0200	132 %	80 - 120
MOLYBDENUM (95)	2.15	1.00	215 %	80 - 120
SODIUM (23)	101	100	101 %	80 - 120
NICKEL (60)	0.0230	0.0200	115 %	80 - 120
LEAD (208)	0.0206	0.0200	103 %	80 - 120
ANTIMONY (121)	0.0225	0.0200	112 %	80 - 120
SELENIUM (78)	0.0187	0.0200	93 %	80 - 120
SELENIUM (82)	0.0203	0.0200	102 %	80 - 120
TIN (118)	0.0216	0.0200	108 %	80 - 120
STRONTIUM (88)	0.0206	0		80 - 120
TITANIUM (47)	2.13	0		80 - 120
THALLIUM (205)	0.0192	0.0200	96 %	80 - 120
VANADIUM (51)	0.0215	0.0200	107 %	80 - 120
ZINC (66)	0.0218	0.0200	109 %	80 - 120

*** - calibrated by linear regression*

12065 Lebanon Rd
Mt. Juliet, TN 37122
(615) 758-5858
(800) 767-5859
Fax (615) 758-5859
Tax I.D 62-0814289
Est. 1970

Quality Control Summary
SDG: L735181
URS Corporation - Tucson AZ - 1088308

Test: Trace Metals by Method 6020
Project No: 23446543.0057AA
Project: Holloman AFB EPA ID: TN00003
Collection Date: 11/20/2014
Instrument ID: ICPMS8

Standard Type : ICSA
Analysis Date: 12/1/2014 3:33 PM
Analysis Time: 1533
Data File: 120114ICPMS8A

Analyte	Conc.	True Value	Recovery	Limits
SILVER (107)	0.0002	0		80 - 120
ALUMINUM (27)	102	100	102 %	80 - 120
ARSENIC (75)	0.0002	0		80 - 120
BORON (10)	0.0041	0		80 - 120
BORON (11)	0.0041	0		80 - 120
BARIUM (137)	0.0004	0		80 - 120
BERYLLIUM (9)	0.0000	0		80 - 120
CALCIUM (43)	92.7	100	93 %	80 - 120
CADMIUM (111)	0.0004	0		80 - 120
COBALT (59)	0.0004	0		80 - 120
CHROMIUM (52)	0.0006	0		80 - 120
COPPER (63)	0.0009	0		80 - 120
IRON (56)	97.7	5.00	1955 %	80 - 120
POTASSIUM (39)	99.4	100	99 %	80 - 120
MAGNESIUM (24)	96.8	100	97 %	80 - 120
MANGANESE (55)	0.0051	0		80 - 120
MOLYBDENUM (95)	2.05	1.00	205 %	80 - 120
SODIUM (23)	96.6	100	97 %	80 - 120
NICKEL (60)	0.0011	0		80 - 120
LEAD (208)	0.0003	0		80 - 120
ANTIMONY (121)	0.0007	0		80 - 120
SELENIUM (78)	0.0004	0		80 - 120
SELENIUM (82)	-0.0005	0		80 - 120
TIN (118)	0.0001	0		80 - 120
STRONTIUM (88)	0.0013	0		80 - 120
TITANIUM (47)	2.10	0		80 - 120
THALLIUM (205)	0.0000	0		80 - 120
VANADIUM (51)	0.0000	0		80 - 120
ZINC (66)	0.0012	0		80 - 120

*** - calibrated by linear regression*

12065 Lebanon Rd
Mt. Juliet, TN 37122
(615) 758-5858
(800) 767-5859
Fax (615) 758-5859
Tax I.D 62-0814289
Est. 1970

Quality Control Summary
SDG: L735181
URS Corporation - Tucson AZ - 1088308

Test: Trace Metals by Method 6020
Project No: 23446543.0057AA
Project: Holloman AFB EPA ID: TN00003
Collection Date: 11/20/2014
Instrument ID: ICPMS8

Standard Type : ICSAB
Analysis Date: 12/1/2014 3:35 PM
Analysis Time: 1535
Data File: 120114ICPMS8A

Analyte	Conc.	True Value	Recovery	Limits
SILVER (107)	0.0204	0.0200	102 %	80 - 120
ALUMINUM (27)	104	100	104 %	80 - 120
ARSENIC (75)	0.0212	0.0200	106 %	80 - 120
BORON (10)	0.0218	0		80 - 120
BORON (11)	0.0221	0		80 - 120
BARIUM (137)	0.0218	0.0200	109 %	80 - 120
BERYLLIUM (9)	0.0202	0.0200	101 %	80 - 120
CALCIUM (43)	93.7	100	94 %	80 - 120
CADMIUM (111)	0.0211	0.0200	106 %	80 - 120
COBALT (59)	0.0208	0.0200	104 %	80 - 120
CHROMIUM (52)	0.0216	0.0200	108 %	80 - 120
COPPER (63)	0.0213	0.0200	106 %	80 - 120
IRON (56)	100	5.00	2000 %	80 - 120
POTASSIUM (39)	102	100	102 %	80 - 120
MAGNESIUM (24)	98.9	100	99 %	80 - 120
MANGANESE (55)	0.0273	0.0200	137 %	80 - 120
MOLYBDENUM (95)	2.13	1.00	213 %	80 - 120
SODIUM (23)	98.1	100	98 %	80 - 120
NICKEL (60)	0.0210	0.0200	105 %	80 - 120
LEAD (208)	0.0204	0.0200	102 %	80 - 120
ANTIMONY (121)	0.0229	0.0200	115 %	80 - 120
SELENIUM (78)	0.0211	0.0200	105 %	80 - 120
SELENIUM (82)	0.0196	0.0200	98 %	80 - 120
TIN (118)	0.0223	0.0200	112 %	80 - 120
STRONTIUM (88)	0.0234	0		80 - 120
TITANIUM (47)	2.13	0		80 - 120
THALLIUM (205)	0.0189	0.0200	95 %	80 - 120
VANADIUM (51)	0.0208	0.0200	104 %	80 - 120
ZINC (66)	0.0219	0.0200	109 %	80 - 120

*** - calibrated by linear regression*

12065 Lebanon Rd
Mt. Juliet, TN 37122
(615) 758-5858
(800) 767-5859
Fax (615) 758-5859
Tax I.D 62-0814289
Est. 1970

Quality Control Summary
SDG: L735181
URS Corporation - Tucson AZ - 1088308

Test: Trace Metals by Method 6020
Project No: 23446543.0057AA
Project: Holloman AFB EPA ID: TN00003
Collection Date: 11/20/2014
Instrument ID: ICPMS8

Standard Type : ICSA
Analysis Date: 12/2/2014 4:26 PM
Analysis Time: 1626
Data File: 120214ICPMS8A

Analyte	Conc.	True Value	Recovery	Limits
SILVER (107)	0.0001	0		80 - 120
ALUMINUM (27)	104	100	104 %	80 - 120
ARSENIC (75)	0.0003	0		80 - 120
BORON (10)	0.0020	0		80 - 120
BORON (11)	0.0020	0		80 - 120
BARIUM (137)	0.0004	0		80 - 120
BERYLLIUM (9)	0.0000	0		80 - 120
CALCIUM (43)	93.0	100	93 %	80 - 120
CADMIUM (111)	0.0003	0		80 - 120
COBALT (59)	0.0006	0		80 - 120
CHROMIUM (52)	0.0005	0		80 - 120
COPPER (63)	0.0010	0		80 - 120
IRON (56)	98.6	5.00	1971 %	80 - 120
POTASSIUM (39)	101	100	101 %	80 - 120
MAGNESIUM (24)	98.3	100	98 %	80 - 120
MANGANESE (55)	0.0048	0		80 - 120
MOLYBDENUM (95)	2.09	1.00	209 %	80 - 120
SODIUM (23)	99.1	100	99 %	80 - 120
NICKEL (60)	0.0012	0		80 - 120
LEAD (208)	0.0003	0		80 - 120
ANTIMONY (121)	0.0006	0		80 - 120
SELENIUM (78)	0.0007	0		80 - 120
SELENIUM (82)	0.0004	0		80 - 120
TIN (118)	0.0002	0		80 - 120
STRONTIUM (88)	0.0017	0		80 - 120
TITANIUM (47)	2.03	0		80 - 120
THALLIUM (205)	0.0000	0		80 - 120
VANADIUM (51)	0.0001	0		80 - 120
ZINC (66)	0.0015	0		80 - 120

*** - calibrated by linear regression*

12065 Lebanon Rd
Mt. Juliet, TN 37122
(615) 758-5858
(800) 767-5859
Fax (615) 758-5859
Tax I.D 62-0814289
Est. 1970

Quality Control Summary
SDG: L735181
URS Corporation - Tucson AZ - 1088308

Test: Trace Metals by Method 6020
Project No: 23446543.0057AA
Project: Holloman AFB EPA ID: TN00003
Collection Date: 11/20/2014
Instrument ID: ICPMS8

Standard Type : ICSAB
Analysis Date: 12/2/2014 4:31 PM
Analysis Time: 1631
Data File: 120214ICPMS8A

Analyte	Conc.	True Value	Recovery	Limits
SILVER (107)	0.0203	0.0200	102 %	80 - 120
ALUMINUM (27)	101	100	101 %	80 - 120
ARSENIC (75)	0.0212	0.0200	106 %	80 - 120
BORON (10)	0.0190	0		80 - 120
BORON (11)	0.0194	0		80 - 120
BARIUM (137)	0.0220	0.0200	110 %	80 - 120
BERYLLIUM (9)	0.0188	0.0200	94 %	80 - 120
CALCIUM (43)	92.0	100	92 %	80 - 120
CADMIUM (111)	0.0210	0.0200	105 %	80 - 120
COBALT (59)	0.0206	0.0200	103 %	80 - 120
CHROMIUM (52)	0.0206	0.0200	103 %	80 - 120
COPPER (63)	0.0211	0.0200	106 %	80 - 120
IRON (56)	99.1	5.00	1982 %	80 - 120
POTASSIUM (39)	98.3	100	98 %	80 - 120
MAGNESIUM (24)	96.0	100	96 %	80 - 120
MANGANESE (55)	0.0261	0.0200	130 %	80 - 120
MOLYBDENUM (95)	2.14	1.00	214 %	80 - 120
SODIUM (23)	96.3	100	96 %	80 - 120
NICKEL (60)	0.0212	0.0200	106 %	80 - 120
LEAD (208)	0.0204	0.0200	102 %	80 - 120
ANTIMONY (121)	0.0229	0.0200	115 %	80 - 120
SELENIUM (78)	0.0204	0.0200	102 %	80 - 120
SELENIUM (82)	0.0192	0.0200	96 %	80 - 120
TIN (118)	0.0209	0.0200	104 %	80 - 120
STRONTIUM (88)	0.0230	0		80 - 120
TITANIUM (47)	2.05	0		80 - 120
THALLIUM (205)	0.0190	0.0200	95 %	80 - 120
VANADIUM (51)	0.0204	0.0200	102 %	80 - 120
ZINC (66)	0.0225	0.0200	112 %	80 - 120

*** - calibrated by linear regression*

12065 Lebanon Rd
Mt. Juliet, TN 37122
(615) 758-5858
(800) 767-5859
Fax (615) 758-5859
Tax I.D 62-0814289
Est. 1970

Quality Control Summary
SDG: L735181
URS Corporation - Tucson AZ - 1088308

Project No: 23446543.0057AA
Project: Holloman AFB EPA ID: TN00003
Instrument ID: ICPMS8 Method: ICP-MS Run Number: 112814ICPMS8

Laboratory Sample ID	Dil	Time	Analytes																												
			Al	Sb	As	Ba	Be	B	Cd	Ca	Cr	Co	Cu	Fe	Pb	Li	Mg	Mn	Mo	Ni	K	Se	Si	Ag	Na	Sr	S	Tl	Sn	Ti	V	Zn
CALBLK	1	1318	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X		X	X	X		X	X	X	X	X
STD1	1	1320	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X		X	X	X		X	X	X	X	X
STD2	1	1321	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X		X	X	X		X	X	X	X	X
STD3	1	1323	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X		X	X	X		X	X	X	X	X
STD4	1	1325	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X		X	X	X		X	X	X	X	X
STD5	1	1328	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X		X	X	X		X	X	X	X	X
STD6	1	1329	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X		X	X	X		X	X	X	X	X
ICV	1	1331		X	X				X		X	X			X					X		X		X				X				
ICB	1	1333		X	X				X		X	X			X					X		X		X				X				
ICVLL	1	1336		X	X				X		X	X			X					X		X		X				X				
ICSA	1	1338																														
ICSAB	1	1340																														
CCV	1	1424		X	X				X		X	X			X					X		X		X				X				
CCB	1	1425		X	X				X		X	X			X					X		X		X				X				
BLANK WG756357	1	1427		X	X				X		X	X			X							X		X				X				
LCS WG756357	1	1428		X	X				X		X	X			X							X		X				X				
LCSD WG756357	1	1430		X	X				X		X	X			X							X		X				X				
L734231-15SD WG756357	25	1433		X	X				X		X	X			X							X		X				X				
L734231-15MS WG756357	5	1434		X	X				X		X	X			X							X		X				X				
L734231-15MSD WG756357	5	1438		X	X				X		X	X			X							X		X				X				
L735181-03 WG756357	5	1450		X	X				X		X	X			X							X		X				X				
L735181-04 WG756357	5	1452		X	X				X		X	X			X							X		X				X				
CCV	1	1454		X	X				X		X	X			X					X		X		X				X				
CCB	1	1455		X	X				X		X	X			X					X		X		X				X				
L735181-06 WG756357	5	1457		X	X				X		X	X			X							X		X				X				
L735181-09 WG756357	5	1504		X	X				X		X	X			X							X		X				X				
CCV	1	1526		X	X				X		X	X			X					X		X		X				X				
CCB	1	1527		X	X				X		X	X			X					X		X		X				X				
CALBLK	1	1612	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X		X	X	X		X	X	X	X	X
STD1	1	1614	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X		X	X	X		X	X	X	X	X
STD2	1	1615	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X		X	X	X		X	X	X	X	X
STD3	1	1617	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X		X	X	X		X	X	X	X	X
STD4	1	1619	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X		X	X	X		X	X	X	X	X
STD5	1	1621	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X		X	X	X		X	X	X	X	X
STD6	1	1622	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X		X	X	X		X	X	X	X	X

ESC LAB SCIENCES
YOUR LAB OF CHOICE

12065 Lebanon Rd
Mt. Juliet, TN 37122
(615) 758-5858
(800) 767-5859
Fax (615) 758-5859
Tax I.D 62-0814289
Est. 1970

Quality Control Summary
SDG: L735181
URS Corporation - Tucson AZ - 1088308

Project No: 23446543.0057AA
Project: Holloman AFB EPA ID: TN00003
Instrument ID: ICPMS8 Method: ICP-MS Run Number: 112814ICPMS8B

Laboratory Sample ID	Dil	Time	Analytes																												
			Al	Sb	As	Ba	Be	B	Cd	Ca	Cr	Co	Cu	Fe	Pb	Li	Mg	Mn	Mo	Ni	K	Se	Si	Ag	Na	Sr	S	Tl	Sn	Ti	V	Zn
CALBLK	1	1916	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X		X	X	X		X	X	X	X	X
STD1	1	1918	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X		X	X	X		X	X	X	X	X
STD2	1	1919	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X		X	X	X		X	X	X	X	X
STD3	1	1921	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X		X	X	X		X	X	X	X	X
STD4	1	1923	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X		X	X	X		X	X	X	X	X
STD5	1	1925	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X		X	X	X		X	X	X	X	X
STD6	1	1927	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X		X	X	X		X	X	X	X	X
ICV	1	1928		X	X				X		X	X			X					X		X		X				X				
ICB	1	1930		X	X				X		X	X			X					X		X		X				X				
ICSA	1	1933																														
ICSAB	1	1936																														
ICVLL	1	1940		X	X				X		X	X			X					X		X		X				X				
CCV	1	2007		X	X				X		X	X			X					X		X		X				X				
CCB	1	2009		X	X				X		X	X			X					X		X		X				X				
BLANK WG756357	1	2010																		X												
LCS WG756357	1	2012																		X												
LCSD WG756357	1	2014																		X												
L734231-15SD WG756357	25	2017																		X												
L734231-15MS WG756357	5	2018																		X												
L734231-15MSD WG756357	5	2020																		X												
L735181-03 WG756357	5	2032																		X												
L735181-04 WG756357	5	2034																		X												
CCV	1	2035		X	X				X		X	X			X					X		X		X				X				
CCB	1	2037		X	X				X		X	X			X					X		X		X				X				
L735181-06 WG756357	5	2038																		X												
L735181-09 WG756357	5	2040																		X												
CCV	1	2044		X	X				X		X	X			X					X		X		X				X				
CCB	1	2046		X	X				X		X	X			X					X		X		X				X				

12065 Lebanon Rd
Mt. Juliet, TN 37122
(615) 758-5858
(800) 767-5859
Fax (615) 758-5859
Tax I.D 62-0814289
Est. 1970

Quality Control Summary
SDG: L735181
URS Corporation - Tucson AZ - 1088308

Project No: 23446543.0057AA
Project: Holloman AFB EPA ID: TN00003
Instrument ID: ICPMS8 Method: ICP-MS Run Number: 112814ICPMS8

Laboratory Sample ID	Dil	Time	Analytes																												
			Al	Sb	As	Ba	Be	B	Cd	Ca	Cr	Co	Cu	Fe	Pb	Li	Mg	Mn	Mo	Ni	K	Se	Si	Ag	Na	Sr	S	Tl	Sn	Ti	V	Zn
CALBLK	1	1318	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X		X	X	X		X	X	X	X	X
STD1	1	1320	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X		X	X	X		X	X	X	X	X
STD2	1	1321	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X		X	X	X		X	X	X	X	X
STD3	1	1323	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X		X	X	X		X	X	X	X	X
STD4	1	1325	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X		X	X	X		X	X	X	X	X
STD5	1	1328	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X		X	X	X		X	X	X	X	X
STD6	1	1329	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X		X	X	X		X	X	X	X	X
ICV	1	1331			X				X		X	X										X		X				X				
ICB	1	1333			X				X		X	X										X		X				X				
ICVLL	1	1336			X				X		X	X										X		X				X				
ICSA	1	1338																														
ICSAB	1	1340																														
CCV	1	1526			X				X		X	X										X		X				X				
CCB	1	1527			X				X		X	X										X		X				X				
BLANK WG756921	1	1529			X				X		X	X												X				X				
LCS WG756921	1	1530			X				X		X	X												X				X				
LCSD WG756921	1	1532			X				X		X	X												X				X				
L734231-16SD WG756921	25	1536			X				X		X	X												X				X				
L734231-16MS WG756921	5	1537			X				X		X	X												X				X				
L734231-16MSD WG756921	5	1539			X				X		X	X												X				X				
L735181-02 WG756921	5	1555			X				X		X	X												X				X				
L735181-05 WG756921	5	1556			X				X		X	X												X				X				
CCV	1	1558			X				X		X	X										X		X				X				
CCB	1	1559			X				X		X	X										X		X				X				
L735181-07 WG756921	5	1601			X				X		X	X												X				X				
L735181-08 WG756921	5	1602			X				X		X	X												X				X				
CCV	1	1607			X				X		X	X										X		X				X				
CCB	1	1609			X				X		X	X										X		X				X				
CALBLK	1	1612	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X		X	X	X		X	X	X	X	X
STD1	1	1614	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X		X	X	X		X	X	X	X	X
STD2	1	1615	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X		X	X	X		X	X	X	X	X
STD3	1	1617	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X		X	X	X		X	X	X	X	X
STD4	1	1619	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X		X	X	X		X	X	X	X	X
STD5	1	1621	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X		X	X	X		X	X	X	X	X
STD6	1	1622	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X		X	X	X		X	X	X	X	X

ESC LAB SCIENCES
YOUR LAB OF CHOICE

12065 Lebanon Rd
Mt. Juliet, TN 37122
(615) 758-5858
(800) 767-5859
Fax (615) 758-5859
Tax I.D 62-0814289
Est. 1970

Quality Control Summary
SDG: L735181
URS Corporation - Tucson AZ - 1088308

Project No: 23446543.0057AA
Project: Holloman AFB EPA ID: TN00003
Instrument ID: ICPMS8 Method: ICP-MS Run Number: 112814ICPMS8B

Laboratory Sample ID	Dil	Time	Analytes																												
			Al	Sb	As	Ba	Be	B	Cd	Ca	Cr	Co	Cu	Fe	Pb	Li	Mg	Mn	Mo	Ni	K	Se	Si	Ag	Na	Sr	S	Tl	Sn	Ti	V	Zn
CALBLK	1	1916	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X		X	X	X		X	X	X	X	X
STD1	1	1918	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X		X	X	X		X	X	X	X	X
STD2	1	1919	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X		X	X	X		X	X	X	X	X
STD3	1	1921	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X		X	X	X		X	X	X	X	X
STD4	1	1923	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X		X	X	X		X	X	X	X	X
STD5	1	1925	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X		X	X	X		X	X	X	X	X
STD6	1	1927	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X		X	X	X		X	X	X	X	X
ICV	1	1928			X				X		X	X										X		X				X				
ICB	1	1930			X				X		X	X										X		X				X				
ICSA	1	1933																														
ICSAB	1	1936																														
ICVLL	1	1940			X				X		X	X										X		X				X				
CCV	1	2044			X				X		X	X										X		X				X				
CCB	1	2046			X				X		X	X										X		X				X				
BLANK WG756921	1	2048																				X										
LCS WG756921	1	2049																				X										
LCSD WG756921	1	2051																				X										
L734231-16SD WG756921	25	2054																				X										
L734231-16MS WG756921	5	2055																				X										
L734231-16MSD WG756921	5	2057																				X										
L735181-02 WG756921	5	2109																				X										
L735181-05 WG756921	5	2111																				X										
CCV	1	2112			X				X		X	X										X		X				X				
CCB	1	2114			X				X		X	X										X		X				X				
L735181-07 WG756921	5	2116																				X										
L735181-08 WG756921	5	2117																				X										
CCV	1	2122			X				X		X	X										X		X				X				
CCB	1	2123			X				X		X	X										X		X				X				

12065 Lebanon Rd
Mt. Juliet, TN 37122
(615) 758-5858
(800) 767-5859
Fax (615) 758-5859
Tax I.D 62-0814289
Est. 1970

Quality Control Summary
SDG: L735181
URS Corporation - Tucson AZ - 1088308

Project No: 23446543.0057AA
Project: Holloman AFB EPA ID: TN00003
Instrument ID: ICPMS8 Method: ICP-MS Run Number: 120114ICPMS8A

Laboratory Sample ID	Dil	Time	Analytes																												
			Al	Sb	As	Ba	Be	B	Cd	Ca	Cr	Co	Cu	Fe	Pb	Li	Mg	Mn	Mo	Ni	K	Se	Si	Ag	Na	Sr	S	Tl	Sn	Ti	V	Zn
CALBLK	1	1514	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X		X	X	X		X	X	X	X	X
STD1	1	1516	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X		X	X	X		X	X	X	X	X
STD2	1	1518	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X		X	X	X		X	X	X	X	X
STD3	1	1520	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X		X	X	X		X	X	X	X	X
STD4	1	1521	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X		X	X	X		X	X	X	X	X
STD5	1	1523	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X		X	X	X		X	X	X	X	X
STD6	1	1525	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X		X	X	X		X	X	X	X	X
ICV	1	1526		X																X		X										
ICB	1	1529		X																X		X										
ICVLL	1	1532		X																X		X										
ICSA	1	1533																														
ICSAB	1	1535																														
CCV	1	2108		X																X		X										
CCB	1	2110		X																X		X										
BLANK WG757513	1	2125		X																X		X										
LCS WG757513	1	2126		X																X		X										
LCSD WG757513	1	2128		X																X		X										
L735181-05 WG757513	1	2130		X																X		X										
L735181-05SD WG757513	5	2131		X																X		X										
L735181-05MS WG757513	1	2133		X																X		X										
L735181-05MSD WG757513	1	2134		X																X		X										
L735181-02 WG757513	1	2149		X																X		X										
CCV	1	2150		X																X		X										
CCB	1	2152		X																X		X										
L735181-07 WG757513	1	2211		X																X		X										
L735181-08 WG757513	1	2212		X																X		X										
CCV	1	2220		X																X		X										
CCB	1	2222		X																X		X										
CALBLK	1	2246	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X		X	X	X		X	X	X	X	X
STD1	1	2247	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X			X	X		X	X	X	X	X
STD2	1	2249	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X			X	X		X	X	X	X	X
STD3	1	2251	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X			X	X		X	X	X	X	X
STD4	1	2252	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X			X	X		X	X	X	X	X
STD5	1	2254	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X			X	X		X	X	X	X	X
STD6	1	2256	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X			X	X		X	X	X	X	X

ESC LAB SCIENCES
YOUR LAB OF CHOICE

12065 Lebanon Rd
Mt. Juliet, TN 37122
(615) 758-5858
(800) 767-5859
Fax (615) 758-5859
Tax I.D 62-0814289
Est. 1970

Quality Control Summary
SDG: L735181
URS Corporation - Tucson AZ - 1088308

Project No: 23446543.0057AA
Project: Holloman AFB EPA ID: TN00003
Instrument ID: ICPMS8 Method: ICP-MS Run Number: 120214ICPMS8A

Laboratory Sample ID	Dil	Time	Analytes																												
			Al	Sb	As	Ba	Be	B	Cd	Ca	Cr	Co	Cu	Fe	Pb	Li	Mg	Mn	Mo	Ni	K	Se	Si	Ag	Na	Sr	S	Tl	Sn	Ti	V	Zn
CALBLK	1	1602	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X		X	X	X		X	X	X	X	X
STD1	1	1604	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X		X	X	X		X	X	X	X	X
STD2	1	1606	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X		X	X	X		X	X	X	X	X
STD3	1	1608	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X		X	X	X		X	X	X	X	X
STD4	1	1609	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X		X	X	X		X	X	X	X	X
STD5	1	1611	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X		X	X	X		X	X	X	X	X
STD6	1	1613	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X		X	X	X		X	X	X	X	X
ICV	1	1615		X											X					X		X										
ICB	1	1623		X											X					X		X										
ICVLL	1	1625		X											X					X		X										
ICSA	1	1626																														
ICSAB	1	1631																														
CCV	1	1644		X											X					X		X										
CCB	1	1646		X											X					X		X										
BLANK WG757513	1	1647													X																	
LCS WG757513	1	1649													X																	
LCSD WG757513	1	1650													X																	
L735181-05 WG757513	5	1652													X																	
L735181-05SD WG757513	25	1653													X																	
L735181-05MS WG757513	5	1655													X																	
L735181-05MSD WG757513	5	1656													X																	
L735181-02 WG757513	5	1710													X																	
CCV	1	1712		X											X					X		X										
CCB	1	1714		X											X					X		X										
L735181-07 WG757513	5	1715													X																	
L735181-08 WG757513	5	1717													X																	
CCV	1	1721		X											X					X		X										
CCB	1	1723		X											X					X		X										

Legend

Column	Color	Meaning
Exp	Green	Parameter exported to LIMS.
%Rec	Red	%Recovery is outside the limits
RPD	Red	RPD exceeds the limit.
RSD	Red	RSD exceeds the limit.
CorCoef	Red	Correlation coefficient is below the limit.
Uncorrected Result	Red	Result exceeds the instrument's LDR for this element.
Uncorrected Result	Blue	Result exceeds the intrument's LDR for an interfering element.
Uncorrected Result	Purple	Result exceeds the instrument's LDR for this element and for an interfering element.
Corrected Result	Red	Result < -2.5 * RL or prep blank result is above the specified limit
Corrected Result	Orange	ICB or CCB result is above the RL for this element.
Intensity	Red	Negative intensity in the curve.
LDR	Yellow	Uncorrected Result is above the LDR

Sample ID: LLICV
Analysis Date: 12/02/14 16:25 Standard ID:
Sequence: 11

QC Parameters

Exp	Parameter	Mass	Units	Intensity	Uncorrected Result	Corrected Result	RSD	%Rec	LL	HL	TV	CorCoef
Y	SCANDIUM (NO HE)	45		1817878			2.89	99	80	120	1835429	
Y	GERMANIUM (NO HE)	72		491229.4			0.530	98	80	120	502396.1	
Y	SCANDIUM	45		18103.48			1.37	99	80	120	18279.22	
Y	GERMANIUM	72		19998.41			0.980	95	80	120	21108.88	
Y	RHODIUM	103		875673.8			0.360	99	80	120	885514.7	
Y	LUTETIUM	175		448047.5			0.230	98	80	120	458198.2	

Target Parameters

Exp	Parameter	Mass	Units	Uncorrected Result	Corrected Result	RSD	%Rec	LL	HL	TV	CorCoef	
Y	ANTIMONY	121		0.001100765	0.001100765	3.98	110	1	200	0.0010	0.9998627	
Y	ARSENIC	75		0.001062858	0.001062858	2.02	106	1	200	0.0010	0.9999711	
Y	BARIUM	137		0.002023854	0.002023854	14.950	101	1	200	0.0020	0.9999875	
Y	BERYLLIUM	9		0.0009962940	0.0009962940	30.310	100	1	200	0.0010	0.9999647	
Y	CADMIUM	111		0.0004865930	0.0004865930	6.30	97	1	200	0.0005	0.9999812	
Y	CHROMIUM	52		0.001182892	0.001182892	10.690	118	1	200	0.0010	0.9999841	
Y	COBALT	59		0.001080609	0.001080609	2.68	108	1	200	0.0010	0.9998702	
Y	COPPER	63		0.001078492	0.001078492	4.97	108	1	200	0.0010	0.9999279	
Y	IRON	56		-0.002291243	-0.002291243		0	1	200	5	0.9999803	NT
Y	LEAD	208		0.001054200	0.001054200	3.53	105	1	200	0.0010	0.9999706	
Y	MANGANESE	55		0.002114408	0.002114408	3.93	106	1	200	0.0020	0.9999988	
Y	MOLYBDENUM	95		0.002106911	0.002106911	10.090	105	1	200	0.0020	0.9999592	
Y	NICKEL	60		0.001094045	0.001094045	23.780	109	1	200	0.0010	0.9998254	
Y	SELENIUM	82		0.001096922	0.001096922	17.420	110	1	200	0.0010	0.9998881	
Y	SELENIUM	78		0.001025183	0.001025183	20.40	103	1	200	0.0010	0.9999186	
Y	SILVER	107		0.0005261480	0.0005261480	7.56	105	1	200	0.0005	0.9999998	
Y	THALLIUM	205		0.001002977	0.001002977	1.88	100	1	200	0.0010	0.9999368	
Y	TIN	118		0.001058947	0.001058947	7.29	106	1	200	0.0010	0.9999994	
Y	VANADIUM	51		0.002039839	0.002039839	7.75	102	1	200	0.0020	0.9999973	
Y	ZINC	66		0.01006284	0.01006284	11.040	101	1	200	0.01	0.9998342	
N	ALUMINUM	27		-0.001068703	-0.001068703						0.9999624	
N	BORON	10		-0.0001897620	-0.0001897620						0.9999361	
N	BORON	11		-0.0003326610	-0.0003326610						0.9998956	
N	CALCIUM	43		0.009696348	0.009696348	78.620					0.9999268	
N	MAGNESIUM	24		0.001079875	0.001079875	92.120					0.9999779	
N	POTASSIUM	39		0.006483589	0.006483589	46.050					0.9999777	

Sample ID: LLICV
Analysis Date: 12/02/14 16:25 Standard ID:
Sequence: 11

Target Parameters cont'd.

Exp	Parameter	Mass	Units	Uncorrected Result	Corrected Result	RSD	%Rec	LL	HL	TV	CorCoef
N	SODIUM	23		-0.008198232	-0.008198232						0.9999644
N	STRONTIUM	88		-0.000003831000	-0.000003831000						0.9999854
N	TITANIUM	47		0.000000000	0.000000000						0.9981490
N	URANIUM	238		-0.000001071000	-0.000001071000						0.9999526

Legend

Column	Color	Meaning
Exp	Green	Parameter exported to LIMS.
%Rec	Red	%Recovery is outside the limits
RPD	Red	RPD exceeds the limit.
RSD	Red	RSD exceeds the limit.
CorCoef	Red	Correlation coefficient is below the limit.
Uncorrected Result	Red	Result exceeds the instrument's LDR for this element.
Uncorrected Result	Blue	Result exceeds the intrument's LDR for an interfering element.
Uncorrected Result	Purple	Result exceeds the instrument's LDR for this element and for an interfering element.
Corrected Result	Red	Result < -2.5 * RL or prep blank result is above the specified limit
Corrected Result	Orange	ICB or CCB result is above the RL for this element.
Intensity	Red	Negative intensity in the curve.
LDR	Yellow	Uncorrected Result is above the LDR

Sample ID: LLICV
Analysis Date: 12/01/14 15:32 Standard ID:
Sequence: 12

QC Parameters

Exp	Parameter	Mass	Units	Intensity	Uncorrected Result	Corrected Result	RSD	%Rec	LL	HL	TV	CorCoef
Y	SCANDIUM (NO HE)	45		1853896			0.240	103	80	120	1795047	
Y	GERMANIUM (NO HE)	72		503785.1			0.100	101	80	120	501274.8	
Y	SCANDIUM	45		19566.48			2.55	103	80	120	19045.79	
Y	GERMANIUM	72		21641.92			0.670	101	80	120	21484.99	
Y	RHODIUM	103		892762.6			0.710	101	80	120	884571.6	
Y	LUTETIUM	175		459082.6			1.04	101	80	120	455248.9	

Target Parameters

Exp	Parameter	Mass	Units	Uncorrected Result	Corrected Result	RSD	%Rec	LL	HL	TV	CorCoef	
Y	ANTIMONY	121		0.001026749	0.001026749	6.08	103	1	200	0.0010	0.9999392	
Y	ARSENIC	75		0.001061640	0.001061640	8.84	106	1	200	0.0010	0.9999684	
Y	BARIUM	137		0.001879336	0.001879336	13.360	94	1	200	0.0020	0.9999934	
Y	BERYLLIUM	9		0.0009335680	0.0009335680	26.910	93	1	200	0.0010	0.9999931	
Y	CADMIUM	111		0.0005009000	0.0005009000	3.73	100	1	200	0.0005	0.9999782	
Y	CHROMIUM	52		0.001148228	0.001148228	6.27	115	1	200	0.0010	0.9999848	
Y	COBALT	59		0.0009735840	0.0009735840	5.39	97	1	200	0.0010	0.9999225	
Y	COPPER	63		0.001069984	0.001069984	2.80	107	1	200	0.0010	0.9999162	
Y	IRON	56		0.002178910	0.002178910	10.540	0	1	200	5	0.9999957	NT
Y	LEAD	208		0.001043093	0.001043093	3.33	104	1	200	0.0010	0.9998984	
Y	MANGANESE	55		0.002167358	0.002167358	0.110	108	1	200	0.0020	0.9999824	
Y	MOLYBDENUM	95		0.002075978	0.002075978	3.98	104	1	200	0.0020	0.9999761	
Y	NICKEL	60		0.001098827	0.001098827	3.71	110	1	200	0.0010	0.9999435	
Y	SELENIUM	82		0.0003526870	0.0003526870	87.760	35	1	200	0.0010	0.9999318	
Y	SELENIUM	78		0.0007907280	0.0007907280	98.940	79	1	200	0.0010	0.9996488	
Y	SILVER	107		0.0005312100	0.0005312100	7.58	106	1	200	0.0005	0.9999957	
Y	THALLIUM	205		0.001027453	0.001027453	1.23	103	1	200	0.0010	0.9999607	
Y	TIN	118		0.001095698	0.001095698	2.87	110	1	200	0.0010	0.9999976	
Y	VANADIUM	51		0.002076932	0.002076932	3.91	104	1	200	0.0020	0.9999918	
Y	ZINC	66		0.01066480	0.01066480	5.00	107	1	200	0.01	0.9998342	
N	ALUMINUM	27		0.0007338090	0.0007338090	116.7900					0.9999759	
N	BORON	10		0.002360080	0.002360080	5.97					0.9999819	
N	BORON	11		0.002323544	0.002323544	3.31					0.9999834	
N	CALCIUM	43		-0.02061682	-0.02061682						0.9995766	
N	MAGNESIUM	24		-0.003741268	-0.003741268						0.9999857	
N	POTASSIUM	39		-0.003062942	-0.003062942						0.9999569	

Sample ID: LLICV
Analysis Date: 12/01/14 15:32 Standard ID:
Sequence: 12

Target Parameters cont'd.

Exp	Parameter	Mass	Units	Uncorrected Result	Corrected Result	RSD	%Rec	LL	HL	TV	CorCoef
N	SODIUM	23		-0.007481980	-0.007481980						0.9998339
N	STRONTIUM	88		-0.0001614060	-0.0001614060						0.9998161
N	TITANIUM	47		0.000000000	0.000000000						0.9997020
N	URANIUM	238		-0.00005662700	-0.00005662700						0.9999611

Legend

Column	Color	Meaning
Exp	Green	Parameter exported to LIMS.
%Rec	Red	%Recovery is outside the limits
RPD	Red	RPD exceeds the limit.
RSD	Red	RSD exceeds the limit.
CorCoef	Red	Correlation coefficient is below the limit.
Uncorrected Result	Red	Result exceeds the instrument's LDR for this element.
Uncorrected Result	Blue	Result exceeds the intrument's LDR for an interfering element.
Uncorrected Result	Purple	Result exceeds the instrument's LDR for this element and for an interfering element.
Corrected Result	Red	Result < -2.5 * RL or prep blank result is above the specified limit
Corrected Result	Orange	ICB or CCB result is above the RL for this element.
Intensity	Red	Negative intensity in the curve.
LDR	Yellow	Uncorrected Result is above the LDR

Sample ID: LLICV-2
Analysis Date: 11/28/14 19:40 Standard ID:
Sequence: 15

QC Parameters

Exp	Parameter	Mass	Units	Intensity	Uncorrected Result	Corrected Result	RSD	%Rec	LL	HL	TV	CorCoef
Y	SCANDIUM (NO HE)	45		1686601			1.42	94	80	120	1786933	
Y	GERMANIUM (NO HE)	72		463449.2			1.34	94	80	120	491075.8	
Y	SCANDIUM	45		17547.23			1.25	90	80	120	19446.29	
Y	GERMANIUM	72		19485.50			2.48	92	80	120	21065.48	
Y	RHODIUM	103		829353.3			0.670	95	80	120	873163.8	
Y	LUTETIUM	175		418457.2			1.49	95	80	120	442524.8	

Target Parameters

Exp	Parameter	Mass	Units	Uncorrected Result	Corrected Result	RSD	%Rec	LL	HL	TV	CorCoef	
Y	ANTIMONY	121		0.001089368	0.001089368	10.950	109	1	200	0.0010	0.9999821	
Y	ARSENIC	75		0.001068740	0.001068740	5.04	107	1	200	0.0010	0.9999964	
Y	BARIUM	137		0.002020329	0.002020329	4.02	101	1	200	0.0020	0.9998250	
Y	BERYLLIUM	9		0.0006821120	0.0006821120	77.10	68	1	200	0.0010	0.9998776	
Y	CADMIUM	111		0.0005059050	0.0005059050	1.45	101	1	200	0.0005	0.9999721	
Y	CHROMIUM	52		0.001139285	0.001139285	7.03	114	1	200	0.0010	0.9999892	
Y	COBALT	59		0.001041590	0.001041590	4.60	104	1	200	0.0010	0.9999933	
Y	COPPER	63		0.001084594	0.001084594	5.78	108	1	200	0.0010	0.9999975	
Y	IRON	56		0.0001834210	0.0001834210	39.120	0	1	200	5	0.9998984	NT
Y	LEAD	208		0.001052041	0.001052041	1.16	105	1	200	0.0010	0.9999807	
Y	MANGANESE	55		0.002039103	0.002039103	10.710	102	1	200	0.0020	0.9999729	
Y	MOLYBDENUM	95		0.002062803	0.002062803	6.83	103	1	200	0.0020	0.9999951	
Y	NICKEL	60		0.001065683	0.001065683	8.52	107	1	200	0.0010	0.9999884	
Y	SELENIUM	82		0.001402188	0.001402188	13.090	140	1	200	0.0010	0.9999817	
Y	SELENIUM	78		0.0009513920	0.0009513920	111.4800	95	1	200	0.0010	0.9995212	
Y	SILVER	107		0.0005029860	0.0005029860	10.210	101	1	200	0.0005	0.9999521	
Y	THALLIUM	205		0.001002261	0.001002261	2.73	100	1	200	0.0010	0.9998599	
Y	TIN	118		0.0008436690	0.0008436690	8.02	84	1	200	0.0010	0.9999684	
Y	VANADIUM	51		0.002051015	0.002051015	9.09	103	1	200	0.0020	0.9999941	
Y	ZINC	66		0.008766091	0.008766091	5.80	88	1	200	0.01	0.9999840	
N	ALUMINUM	27		0.0002166940	0.0002166940	338.2700					0.9999782	
N	BORON	10		0.0005085880	0.0005085880	36.870					0.9999680	
N	BORON	11		0.0003773890	0.0003773890	11.930					0.9999560	
N	CALCIUM	43		-0.01760890	-0.01760890						0.9999066	
N	MAGNESIUM	24		-0.002035421	-0.002035421						0.9999842	
N	POTASSIUM	39		0.0006017280	0.0006017280	641.1400					0.9999937	

Sample ID: LLICV-2
Analysis Date: 11/28/14 19:40 Standard ID:
Sequence: 15

Target Parameters cont'd.

Exp	Parameter	Mass	Units	Uncorrected Result	Corrected Result	RSD	%Rec	LL	HL	TV	CorCoef
N	SODIUM	23		0.008650091	0.008650091	24.960					0.9998599
N	STRONTIUM	88		-0.00002002000	-0.00002002000						0.9999318
N	TITANIUM	47		0.00001459600	0.00001459600	1861.320					0.9997075
N	URANIUM	238		-0.00004394000	-0.00004394000						0.9996437

Legend

Column	Color	Meaning
Exp	Green	Parameter exported to LIMS.
%Rec	Red	%Recovery is outside the limits
RPD	Red	RPD exceeds the limit.
RSD	Red	RSD exceeds the limit.
CorCoef	Red	Correlation coefficient is below the limit.
Uncorrected Result	Red	Result exceeds the instrument's LDR for this element.
Uncorrected Result	Blue	Result exceeds the intrument's LDR for an interfering element.
Uncorrected Result	Purple	Result exceeds the instrument's LDR for this element and for an interfering element.
Corrected Result	Red	Result < -2.5 * RL or prep blank result is above the specified limit
Corrected Result	Orange	ICB or CCB result is above the RL for this element.
Intensity	Red	Negative intensity in the curve.
LDR	Yellow	Uncorrected Result is above the LDR

Sample ID: LLICV-2
Analysis Date: 11/28/14 13:36 Standard ID:
Sequence: 12

QC Parameters

Exp	Parameter	Mass	Units	Intensity	Uncorrected Result	Corrected Result	RSD	%Rec	LL	HL	TV	CorCoef
Y	SCANDIUM (NO HE)	45		1853734			2.68	97	80	120	1916000	
Y	GERMANIUM (NO HE)	72		510288.2			0.620	98	80	120	518337.5	
Y	SCANDIUM	45		20503.27			0.350	100	80	120	20542.30	
Y	GERMANIUM	72		22407.53			0.800	102	80	120	21932.34	
Y	RHODIUM	103		916766.4			0.610	101	80	120	910360.4	
Y	LUTETIUM	175		466151.5			0.810	102	80	120	456033.2	

Target Parameters

Exp	Parameter	Mass	Units	Uncorrected Result	Corrected Result	RSD	%Rec	LL	HL	TV	CorCoef	
Y	ANTIMONY	121		0.001297120	0.001297120	12.560	130	1	200	0.0010	0.9998015	
Y	ARSENIC	75		0.001077280	0.001077280	7.58	108	1	200	0.0010	0.9999299	
Y	BARIUM	137		0.002083482	0.002083482	4.77	104	1	200	0.0020	0.9997554	
Y	BERYLLIUM	9		0.001212395	0.001212395	5.77	121	1	200	0.0010	0.9996836	
Y	CADMIUM	111		0.0005092720	0.0005092720	4.57	102	1	200	0.0005	0.9998514	
Y	CHROMIUM	52		0.001011594	0.001011594	18.040	101	1	200	0.0010	0.9998981	
Y	COBALT	59		0.001054953	0.001054953	3.45	105	1	200	0.0010	0.9999160	
Y	COPPER	63		0.0009889870	0.0009889870	2.62	99	1	200	0.0010	0.9999199	
Y	IRON	56		-0.001455004	-0.001455004		0	1	200	5	0.9997258	NT
Y	LEAD	208		0.001048324	0.001048324	4.43	105	1	200	0.0010	0.9999921	
Y	MANGANESE	55		0.001868696	0.001868696	7.32	93	1	200	0.0020	0.9998488	
Y	MOLYBDENUM	95		0.001985145	0.001985145	4.07	99	1	200	0.0020	0.9998906	
Y	NICKEL	60		0.001151444	0.001151444	3.73	115	1	200	0.0010	0.9998398	
Y	SELENIUM	82		0.001236413	0.001236413	14.590	124	1	200	0.0010	0.9999179	
Y	SELENIUM	78		0.001108668	0.001108668	74.130	111	1	200	0.0010	0.9999894	
Y	SILVER	107		0.0005337630	0.0005337630	1.98	107	1	200	0.0005	0.9999492	
Y	THALLIUM	205		0.0009811670	0.0009811670	4.47	98	1	200	0.0010	0.9995832	
Y	TIN	118		0.001002556	0.001002556	11.170	100	1	200	0.0010	0.9998476	
Y	VANADIUM	51		0.001942083	0.001942083	3.10	97	1	200	0.0020	0.9998439	
Y	ZINC	66		0.008944984	0.008944984	4.72	89	1	200	0.01	0.9999169	
N	ALUMINUM	27		-0.002902438	-0.002902438						0.9998736	
N	BORON	10		0.002206553	0.002206553	5.45					0.9998541	
N	BORON	11		0.002285348	0.002285348	1.45					0.9998570	
N	CALCIUM	43		-0.008298675	-0.008298675						0.9997007	
N	MAGNESIUM	24		0.0004139290	0.0004139290	67.630					0.9999647	
N	POTASSIUM	39		0.002027665	0.002027665	381.4700					0.9999124	

Sample ID: LLICV-2
Analysis Date: 11/28/14 13:36 Standard ID:
Sequence: 12

Target Parameters cont'd.

Exp	Parameter	Mass	Units	Uncorrected Result	Corrected Result	RSD	%Rec	LL	HL	TV	CorCoef
N	SODIUM	23		-0.001854168	-0.001854168						0.9999765
N	STRONTIUM	88		-0.000004989000	-0.000004989000						0.9998399
N	TITANIUM	47		-0.0004046820	-0.0004046820						0.9997059
N	URANIUM	238		0.000004843000	0.000004843000	27.720					0.9996150

Raw Data

3015 GW
ESC Lab Sciences

Method: 3015 SOP:340389 R.13

HNO3 Standard ID:	14K18881	**Vol. Used:**	5 mL	**Workgroup:**	WG756357
ICPMS Spike Standard ID:	14I11322	**Vol. Used:**	0.45 mL	**Date:**	11/25/2014
Digestion Vessel Standard ID:	ESC30685			**Analyst:**	669
				Samples pH Verified:	N/A
Spike Pipetter ID:	F13412591			**Tray ID:**	5
				Microwave ID:	MD9972
				Digest Time & Date:	11/25/14 10:33

Pos.		Sample Number	Sample Volume (mL)	Final Volume (mL)	Sample Description	Comments
1		**BLANK**	45	50	Nanopure	
2		**LCS**	45	50	Nanopure	
3		**LCSD**	45	50	Nanopure	
4	1.	**L734231-15**	45	50	Clear	
5	1.	**MS L734231-15**	45	50	Clear	
6	1.	**MSD L734231-15**	45	50	Clear	
7	2.	**L734231-18**	45	50	Clear	
8	3.	**L734231-21**	45	50	Clear	
9	4.	**L734231-23**	45	50	Clear	
10	5.	**L734810-02**	45	50	Clear	
11	6.	**L734810-04**	45	50	Clear	
12	7.	**L734810-06**	45	50	Clear	
13	8.	**L734810-08**	45	50	Clear	
14	9.	**L735181-03**	45	50	Clear	
15	10.	**L735181-04**	45	50	Clear	
16	11.	**L735181-06**	45	50	Clear	
17	12.	**L735181-09**	45	50	Clear	
18	13.	**L735318-06**	45	50	Clear	
19	14.	**L735318-09**	45	50	Clear	
20						
21						
22						
23						
24						
25						
26						
27						
28						
29						
30						
31						
32						
33						
34						
35						

Reviewed By: **Analyst:** 656

Additional Remarks: **Date:** 11/25/2014

3015 GW
ESC Lab Sciences

Method: 3015 SOP:340389 R.13

HNO3 Standard ID:	14K25279	**Vol. Used:**	5 mL	**Workgroup:**	WG756921
ICPMS Spike Standard ID:	14K1889	**Vol. Used:**	0.225 mL	**Date:**	11/26/2014
Digestion Vessel Standard ID:	ESC30685			**Analyst:**	656
				Samples pH Verified:	656
Spike Pipetter ID:	F13412531			**Tray ID:**	4
				Microwave ID:	MD2861
				Digest Time & Date:	11/26/14 10:18

Pos.		Sample Number	Sample Volume (mL)	Final Volume (mL)	Sample Description	Comments
1		**BLANK**	45	50	Nanopure	
2		**LCS**	45	50	Nanopure	
3		**LCSD**	45	50	Nanopure	
4	1.	**L734231-16**	45	50	Brown Cloudy	
5	1.	**MS L734231-16**	45	50	Brown Cloudy	
6	1.	**MSD L734231-16**	45	50	Brown Cloudy	
7	2.	**L734231-19**	45	50	Brown Cloudy	
8	3.	**L734231-20**	45	50	Brown Cloudy	
9	4.	**L734231-24**	45	50	Brown Cloudy	
10	5.	**L734810-03**	45	50	Brown Cloudy	
11	6.	**L734810-05**	45	50	Brown Cloudy	
12	7.	**L734810-07**	45	50	Brown Cloudy	
13	8.	**L734810-09**	45	50	Brown Cloudy	
14	9.	**L735181-02**	45	50	Brown Cloudy	
15	10.	**L735181-05**	45	50	Brown Cloudy	
16	11.	**L735181-07**	45	50	Brown Cloudy	
17	12.	**L735181-08**	45	50	Brown Cloudy	
18	13.	**L735318-07**	45	50	Brown Cloudy	
19	14.	**L735318-08**	45	50	Brown Cloudy	
20	15.		45	50	(none)	
21	16.		45	50	(none)	
22	17.		45	50	(none)	
23	18.		45	50	(none)	
24	19.		45	50	(none)	
25	20.		45	50	(none)	
26			45	50	(none)	
27			45	50	(none)	
28			45	50	(none)	
29			45	50	(none)	
30			45	50	(none)	
31			45	50	(none)	
32			45	50	(none)	
33			45	50	(none)	
34			45	50	(none)	
35			45	50	(none)	

Reviewed By: **Analyst:** 638

Additional Remarks: **Date:** 11/26/2014

3015 GW
ESC Lab Sciences

Method: 3015 SOP:340389 R.13

HNO3 Standard ID:	14K25280	**Vol. Used:**	5 mL	**Workgroup:**	WG757513
ICPMS Spike Standard ID:	14I11322	**Vol. Used:**	0.45 mL	**Date:**	12/1/2014
Digestion Vessel Standard ID:	ESC30685			**Analyst:**	681
				Samples pH Verified:	681
Spike Pipetter ID:	F13412591			**Tray ID:**	4
				Microwave ID:	MJ2771
				Digest Time & Date:	12/1/14 16:07

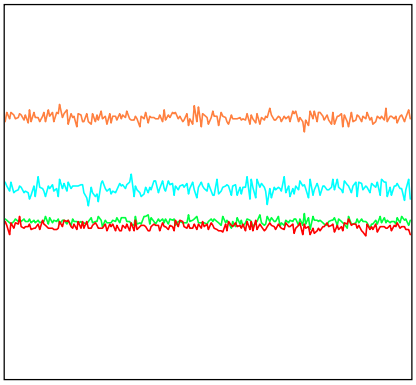
Pos.		Sample Number	Sample Volume (mL)	Final Volume (mL)	Sample Description	Comments
1		**BLANK**	45	50	Nanopure	
2		**LCS**	45	50	Nanopure	
3		**LCSD**	45	50	Nanopure	
4	1.	**L735181-05**	45	50	Clear	
5	1.	**MS L735181-05**	45	50	Clear	
6	1.	**MSD L735181-05**	45	50	Clear	
7	2.	**L734231-16**	45	50	Brown Cloudy	
8	3.	**L734231-19**	45	50	Brown Cloudy	
9	4.	**L734231-20**	45	50	Brown Cloudy	
10	5.	**L734231-24**	45	50	Brown Cloudy	
11	6.	**L734810-03**	45	50	Brown Cloudy	
12	7.	**L734810-05**	45	50	Brown Cloudy	
13	8.	**L734810-07**	45	50	Brown Cloudy	
14	9.	**L734810-09**	45	50	Brown Cloudy	
15	10.	**L735181-02**	45	50	Brown Cloudy	
16	11.	**L735181-07**	45	50	Brown Cloudy	
17	12.	**L735181-08**	45	50	Brown Cloudy	
18	13.	**L735318-07**	45	50	Brown Cloudy	
19	14.	**L735318-08**	45	50	Brown Cloudy	
20						
21						
22						
23						
24						
25						
26						
27						
28						
29						
30						
31						
32						
33						
34						
35						

Reviewed By: **Analyst:** VS117

Additional Remarks: **Date:** 12/1/2014

Current Signal

[No Gas]



Mass	Range	Count	Avg. Count	RSD [%]
7	5000	2396	2547.5	2.92
59	50000	21284	21042.3	1.85
89	50000	34855	34987.0	1.71
205	50000	19314	20330.7	2.22
156/140	1	0.794 %	0.726 %	7.34
70/140	2	1.040 %	1.009 %	6.01
103	500	125	128.5	25.48
Integration Time [sec]		0.10		

Plasma Parameters

RF Power	1550	W	Nebulizer Pump	0.30	rps
RF Matching	1.60	V	S/C Temp	2	℃
Smpl Depth	10.0	mm	Gas Switch	Dilution Gas	
Carrier Gas	0.75	L/min	Makeup/Dilution Gas	0.35	L/min
Option Gas	0.0	%			

Lenses Parameters

Extract 1	0.0	V	Cell Entrance	-30	V
Extract 2	-200.0	V	Cell Exit	-52	V
Omega Bias	-80	V	Deflect	15.4	V
Omega Lens	8.8	V	Plate Bias	-40	V

Cell Parameters

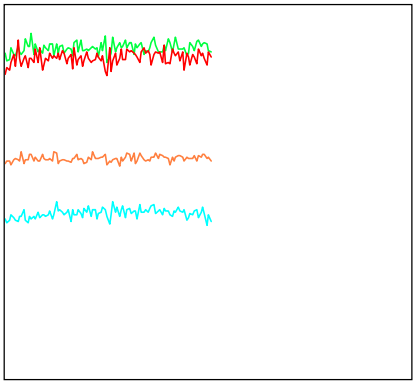
Use Gas	false		OctP Bias	-8.0	V
He Flow	5.0	mL/min	OctP RF	150	V
H2 Flow	0.0	mL/min	Energy Discrimination	5.0	V
3rd Gas Flow	0	%			

Meters

IF/BK Press	1.78E+2	Pa	Water RF/WC/IF	1.45	L/min
TMP Revolution	100.0	%	S/C Temp (L)	1.9	℃
Carrier Gas(BP)	3.20E+2	kPa			

Current Signal

[No Gas]



Mass	Range	Count	Avg. Count	RSD [%]
7	5000	2108	2212.0	2.91
59	20000	17560	17737.0	1.70
89	50000	29154	29479.8	1.44
205	20000	17251	17194.8	2.13
156/140	1	0.702 %	0.684 %	8.99
70/140	2	1.044 %	1.030 %	6.27
103	200	137	145.6	10.01

Integration Time [sec] 0.10

Plasma Parameters

RF Power	1550	W	Nebulizer Pump	0.10	rps
RF Matching	1.60	V	S/C Temp	2	℃
Smpl Depth	10.0	mm	Gas Switch	Dilution Gas	
Carrier Gas	0.75	L/min	Makeup/Dilution Gas	0.35	L/min
Option Gas	0.0	%			

Lenses Parameters

Extract 1	0.0	V	Cell Entrance	-30	V
Extract 2	-200.0	V	Cell Exit	-52	V
Omega Bias	-80	V	Deflect	15.4	V
Omega Lens	8.8	V	Plate Bias	-40	V

Cell Parameters

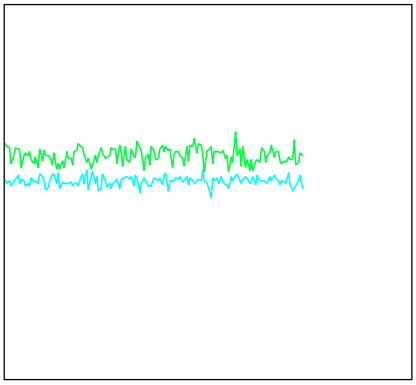
Use Gas	false		OctP Bias	-8.0	V
He Flow	5.0	mL/min	OctP RF	150	V
H2 Flow	0.0	mL/min	Energy Discrimination	5.0	V
3rd Gas Flow	0	%			

Meters

IF/BK Press	1.78E+2	Pa	Water RF/WC/IF	1.49	L/min
TMP Revolution	100.0	%	S/C Temp (L)	2.0	℃
Carrier Gas(BP)	3.20E+2	kPa			

Current Signal

[He]



Mass	Range	Count	Avg. Count	RSD [%]
59	5000	2544	2643.7	2.40
89	2000	1193	1195.9	3.43
51/59	1	0.079 %	0.060 %	89.94
75	20	0	0.2	209.06
78	20	0	0.4	166.60

Integration Time [sec] 0.10

Plasma Parameters

RF Power	1550	W	Nebulizer Pump	0.10	rps
RF Matching	1.60	V	S/C Temp	2	℃
Smpl Depth	10.0	mm	Gas Switch	Dilution Gas	
Carrier Gas	0.75	L/min	Makeup/Dilution Gas	0.35	L/min
Option Gas	0.0	%			

Lenses Parameters

Extract 1	0.0	V	Cell Entrance	-36	V
Extract 2	-200.0	V	Cell Exit	-64	V
Omega Bias	-80	V	Deflect	4.0	V
Omega Lens	8.8	V	Plate Bias	-60	V

Cell Parameters

Use Gas	true		OctP Bias	-18.0	V
He Flow	4.9	mL/min	OctP RF	150	V
H2 Flow	0.0	mL/min	Energy Discrimination	5.0	V
3rd Gas Flow	0	%			

Meters

IF/BK Press	1.79E+2	Pa	Water RF/WC/IF	1.47	L/min
TMP Revolution	100.0	%	S/C Temp (L)	1.9	℃
Carrier Gas(BP)	3.20E+2	kPa			

Tune Report

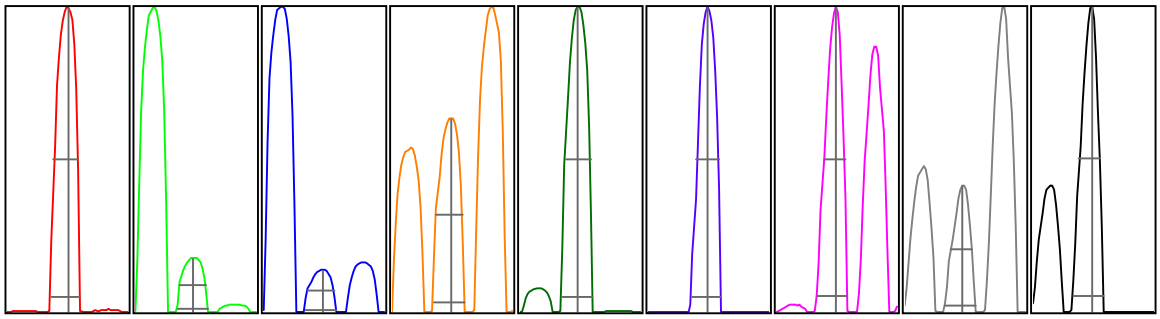
Batch Folder	C:\Agilent\ICPMH\1\DATA\112814ICPMS8.b
Acq. Date-Time	2014-11-28 11:30
Report Comment	
Instrument Name	G8403A JP14080166

[No Gas]

Mass	RSD % (Actual)	RSD % (Required)	RSD % (Flag)
9	0.86	5.00	
24	0.44	5.00	
25	1.56	5.00	
26	0.59	5.00	
59	0.35	5.00	
115	0.59	5.00	
206	0.64	5.00	
207	0.87	5.00	
208	0.80	5.00	

Mass	Rep. 1 Count	Rep. 2 Count	Rep. 3 Count	Rep. 4 Count	Rep. 5 Count
9	5846	5856	5797	5893	5766
24	46527	46055	46239	46410	46087
25	6538	6317	6325	6494	6390
26	7514	7615	7516	7591	7564
59	109001	109663	108998	109681	109765
115	158332	159143	159906	159536	160876
206	29266	29519	29384	29676	29714
207	25330	25269	25369	25798	25607
208	60852	60819	60918	61624	61859

Integration Time [sec] 0.1



Mass	Peak Height	Axis (Actual)	Axis (Required)	Axis (Flag)	W-50 %	W-5 % (Actual)	W-5 % (Required)	W-5 % (Flag)
9	1020.56	9.05	8.9 - 9.1		0.60	0.735	0.850	
24	7658.65	23.95	23.9 - 24.1		0.63	0.776	0.850	
25	1062.50	25.00	24.9 - 25.1		0.64	0.786	0.850	
26	1257.96	26.00	25.9 - 26.1		0.63	0.785	0.850	
59	18772.22	58.95	58.9 - 59.1		0.61	0.780	0.850	
115	30363.09	115.00	114.9 - 115.1		0.54	0.736	0.850	
206	5938.57	206.00	205.9 - 206.1		0.52	0.746	0.850	
207	5150.97	206.95	206.9 - 207.1		0.52	0.751	0.850	
208	12435.09	208.00	207.9 - 208.1		0.51	0.767	0.850	

Tune Report

Integration Time [sec] 0.1 **Acquisition Time [sec]** 212.5 **Y Axis** Linear

Tune Parameters
Plasma Paramters

RF Power	1550 W	Nebulizer Pump	0.10 rps
RF Matching	1.60 V	S/C Temp	2 ℃
Smpl Depth	10.0 mm	Gas Switch	Dilution Gas
Carrier Gas	0.75 L/min	Makeup/Dilution Gas	0.35 L/min
Option Gas	0.0 %		

Lenses Parameters

Extract 1	0.0 V	Cell Entrance	-30 V
Extract 2	-200.0 V	Cell Exit	-52 V
Omega Bias	-80 V	Deflect	15.4 V
Omega Lens	8.8 V	Plate Bias	-40 V

Cell Parameters

Use Gas	false	OctP Bias	-8.0 V
He Flow	0.0 mL/min	OctP RF	150 V
H2 Flow	0.0 mL/min	Energy Discrimination	5.0 V
3rd Gas Flow	0 %		

Calibration Blank Report

Sample Name	CALBLK 14K05174
File Name	001CALB.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\112814ICPMS8.b
Acq Time	2014-11-28 13:15:55
Sample Type	CalBlk
Total Dilution	1.0000
Comment	---
ISTD Ref FileName	001CALB.d
Sample QC Pass/Fial	Pass
ISTD QC Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD	Tune Mode	CPS	CPS RSD
B	11	45	No Gas	279.33	8.30
Se	82	72	No Gas	922.26	2.71
Na	23	45	He	9399.78	3.46
Mg	24	45	He	90.00	29.40
Al	27	45	He	86.67	74.19
K	39	45	He	5807.94	0.61
Ca	43	45	He	5.67	79.57
V	51	45	He	10.00	100.00
Cr	52	45	He	893.38	6.37
Mn	55	72	He	50.00	20.00
Fe	56	72	He	8786.17	5.77
Co	59	72	He	16.67	91.65
Ni	60	72	He	156.67	9.75
Cu	63	72	He	216.67	23.69
Zn	66	72	He	403.35	26.51
As	75	72	He	2.22	34.80
Se	78	72	He	8.00	12.50
Sr	88	72	He	123.33	12.39
Mo	95	72	He	20.00	50.00
Ag	107	103	He	30.00	33.33
Sn	118	103	He	46.67	24.74
Sb	121	103	He	60.00	16.67
Ba	137	103	He	20.00	86.60
Tl	205	175	He	83.33	79.90
Pb	208	175	He	303.34	9.52
Th	232	175	He	33.33	45.83
U	238	175	He	3.33	173.21

QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD
Sc (No He)	45	No Gas	1876742.99	0.31
Ge (No He)	72	No Gas	510472.32	0.72
Sc	45	He	20764.82	1.06
Ge	72	He	22190.49	1.77

Calibration Blank Report

Name	Mass	Tune Mode	CPS	CPS RSD
Rh	103	He	910678.94	0.80
Lu	175	He	458374.48	0.50

Calibration Blank Report

Sample Name	CALBLK 14K05174
File Name	002CALB.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\112814ICPMS8.b
Acq Time	2014-11-28 13:18:21
Sample Type	CalBlk
Total Dilution	1.0000
Comment	---
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fial	Pass
ISTD QC Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD	Tune Mode	CPS	CPS RSD
B	11	45	No Gas	280.67	9.73
Se	82	72	No Gas	911.15	2.70
Na	23	45	He	9566.55	3.25
Mg	24	45	He	113.33	13.48
Al	27	45	He	63.33	24.12
K	39	45	He	5711.22	9.23
Ca	43	45	He	9.67	15.80
Ti	47	45	He	10.00	173.21
V	51	45	He	26.67	57.28
Cr	52	45	He	843.37	13.49
Mn	55	72	He	43.33	66.62
Fe	56	72	He	4717.51	7.94
Co	59	72	He	10.00	0.00
Ni	60	72	He	126.67	37.31
Cu	63	72	He	183.34	13.73
Zn	66	72	He	506.69	7.47
As	75	72	He	2.22	124.96
Se	78	72	He	5.33	28.64
Sr	88	72	He	126.67	27.73
Mo	95	72	He	3.33	173.21
Ag	107	103	He	10.00	0.00
Sn	118	103	He	36.67	56.77
Sb	121	103	He	43.33	13.32
Ba	137	103	He	23.33	65.47
Tl	205	175	He	56.67	61.97
Pb	208	175	He	290.00	31.61
Th	232	175	He	20.00	100.00
U	238	175	He	6.67	86.60

QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD
Sc (No He)	45	No Gas	1916000.44	0.90
Ge (No He)	72	No Gas	518337.46	1.36
Sc	45	He	20542.30	1.40

Calibration Blank Report

Name	Mass	Tune Mode	CPS	CPS RSD
Ge	72	He	21932.34	1.43
Rh	103	He	910360.35	0.31
Lu	175	He	456033.24	0.62

Calibration Standard Report

Sample Name	STD1 14K05175
File Name	003CALS.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\112814ICPMS8.b
Acq Time	2014-11-28 13:20:07
Sample Type	CalStd
Total Dilution	1.0000
Comment	---
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fial	Pass
ISTD QC Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD	Tune Mode	CPS	CPS RSD
B	11	45	No Gas	1219.39	2.47
Se	82	72	No Gas	1214.50	1.30
Be	9	45	He	13.00	30.77
Na	23	45	He	25933.00	1.33
Mg	24	45	He	7598.73	1.10
Al	27	45	He	230.00	27.15
K	39	45	He	10520.64	6.00
Ca	43	45	He	23.00	4.35
Ti	47	45	He	30.00	33.33
V	51	45	He	1386.76	4.10
Cr	52	45	He	2810.32	2.83
Mn	55	72	He	723.37	18.77
Fe	56	72	He	16239.31	3.11
Co	59	72	He	4033.97	7.80
Ni	60	72	He	1266.74	12.59
Cu	63	72	He	3760.56	3.23
Zn	66	72	He	496.68	17.59
As	75	72	He	201.78	9.90
Se	78	72	He	9.33	68.88
Sr	88	72	He	730.03	5.48
Mo	95	72	He	1400.10	2.86
Ag	107	103	He	5654.57	0.67
Cd	111	103	He	545.34	5.55
Sn	118	103	He	1000.06	5.57
Sb	121	103	He	1186.74	12.76
Ba	137	103	He	430.02	22.19
Tl	205	175	He	11598.60	5.45
Pb	208	175	He	14956.96	4.24
Th	232	175	He	10.00	173.21
U	238	175	He	14858.83	0.74

QC ISTD Table

Calibration Standard Report

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc (No He)	45	No Gas	1886350.03	0.70	1916000.44	98.45	60	120	
Ge (No He)	72	No Gas	514220.69	0.75	518337.463333333	99.21	60	120	
Sc	45	He	20557.82	1.36	20542.3	100.08	60	120	
Ge	72	He	22271.75	1.11	21932.34	101.55	60	120	
Rh	103	He	910375.67	0.39	910360.35	100	60	120	
Lu	175	He	457804.81	0.74	456033.236666667	100.39	60	120	

Calibration Standard Report

Sample Name	STD2 14K05175
File Name	004CALS.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\112814ICPMS8.b
Acq Time	2014-11-28 13:21:52
Sample Type	CalStd
Total Dilution	1.0000
Comment	---
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fial	Pass
ISTD QC Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD	Tune Mode	CPS	CPS RSD
B	11	45	No Gas	2159.50	1.02
Se	82	72	No Gas	1367.85	7.53
Be	9	45	He	33.00	8.02
Na	23	45	He	41792.45	0.40
Mg	24	45	He	14984.48	0.71
Al	27	45	He	380.01	12.06
K	39	45	He	15004.54	4.33
Ca	43	45	He	47.33	12.91
Ti	47	45	He	36.67	41.66
V	51	45	He	2780.33	7.38
Cr	52	45	He	4704.20	5.64
Mn	55	72	He	1330.08	7.92
Fe	56	72	He	30642.71	4.14
Co	59	72	He	8279.16	3.74
Ni	60	72	He	2570.26	2.43
Cu	63	72	He	7548.75	4.18
Zn	66	72	He	873.38	15.38
As	75	72	He	420.01	4.20
Se	78	72	He	19.67	15.53
Sr	88	72	He	1356.76	9.36
Mo	95	72	He	2666.97	2.91
Ag	107	103	He	11354.81	0.58
Cd	111	103	He	1141.38	4.13
Sn	118	103	He	1916.84	3.95
Sb	121	103	He	2623.63	5.36
Ba	137	103	He	826.71	6.09
Tl	205	175	He	23444.57	2.94
Pb	208	175	He	30177.56	2.92
Th	232	175	He	13.33	173.21
U	238	175	He	30867.21	3.25

QC ISTD Table

Calibration Standard Report

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc (No He)	45	No Gas	1887124.14	0.63	1916000.44	98.49	60	120	
Ge (No He)	72	No Gas	513998.78	0.82	518337.463333333	99.16	60	120	
Sc	45	He	20817.06	0.80	20542.3	101.34	60	120	
Ge	72	He	22575.57	1.21	21932.34	102.93	60	120	
Rh	103	He	918749.21	0.29	910360.35	100.92	60	120	
Lu	175	He	464515.12	0.44	456033.236666667	101.86	60	120	

Calibration Standard Report

Sample Name	STD3 14K05175
File Name	005CALS.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\112814ICPMS8.b
Acq Time	2014-11-28 13:23:36
Sample Type	CalStd
Total Dilution	1.0000
Comment	---
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fial	Pass
ISTD QC Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD	Tune Mode	CPS	CPS RSD
B	11	45	No Gas	9534.38	2.62
Se	82	72	No Gas	3313.73	4.18
Be	9	45	He	144.67	5.76
Na	23	45	He	170592.84	2.47
Mg	24	45	He	73884.07	3.41
Al	27	45	He	1566.78	4.25
K	39	45	He	51480.93	0.46
Ca	43	45	He	147.33	9.26
Ti	47	45	He	263.34	12.21
V	51	45	He	13843.46	4.74
Cr	52	45	He	18665.58	4.22
Mn	55	72	He	6188.12	4.96
Fe	56	72	He	138259.24	3.70
Co	59	72	He	40249.77	2.90
Ni	60	72	He	11921.73	3.33
Cu	63	72	He	35941.72	1.27
Zn	66	72	He	3247.08	4.93
As	75	72	He	1980.14	1.78
Se	78	72	He	73.00	3.62
Sr	88	72	He	6591.64	6.14
Mo	95	72	He	13813.64	9.03
Ag	107	103	He	55877.95	1.84
Cd	111	103	He	5289.69	6.34
Sn	118	103	He	10027.13	5.58
Sb	121	103	He	11778.48	5.40
Ba	137	103	He	3933.97	2.60
Tl	205	175	He	117087.81	2.49
Pb	208	175	He	149076.22	3.23
Th	232	175	He	46.67	12.37
U	238	175	He	151752.33	3.63

QC ISTD Table

Calibration Standard Report

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc (No He)	45	No Gas	1944101.64	0.16	1916000.44	101.47	60	120	
Ge (No He)	72	No Gas	527355.93	0.99	518337.463333333	101.74	60	120	
Sc	45	He	21010.71	4.03	20542.3	102.28	60	120	
Ge	72	He	22795.90	0.71	21932.34	103.94	60	120	
Rh	103	He	925030.82	1.26	910360.35	101.61	60	120	
Lu	175	He	472317.57	1.32	456033.236666667	103.57	60	120	

Calibration Standard Report

Sample Name	STD4 14K05175
File Name	006CALS.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\112814ICPMS8.b
Acq Time	2014-11-28 13:25:22
Sample Type	CalStd
Total Dilution	1.0000
Comment	---
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fial	Pass
ISTD QC Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD	Tune Mode	CPS	CPS RSD
B	11	45	No Gas	48033.41	3.24
Se	82	72	No Gas	12780.22	2.74
Be	9	45	He	730.69	4.02
Na	23	45	He	832714.15	1.15
Mg	24	45	He	375215.63	3.28
Al	27	45	He	8866.16	7.30
K	39	45	He	234387.42	1.40
Ca	43	45	He	839.69	3.29
Ti	47	45	He	1163.40	6.04
V	51	45	He	70882.50	3.85
Cr	52	45	He	95560.28	5.99
Mn	55	72	He	31120.40	5.02
Fe	56	72	He	685843.99	4.23
Co	59	72	He	206001.48	3.60
Ni	60	72	He	61527.52	2.79
Cu	63	72	He	180089.72	3.44
Zn	66	72	He	16663.17	2.47
As	75	72	He	10457.60	1.45
Se	78	72	He	317.67	2.14
Sr	88	72	He	32100.12	2.92
Mo	95	72	He	68968.31	4.78
Ag	107	103	He	287220.35	1.97
Cd	111	103	He	27374.72	2.79
Sn	118	103	He	50364.89	5.81
Sb	121	103	He	62464.03	2.08
Ba	137	103	He	20198.52	7.54
Tl	205	175	He	591574.48	0.24
Pb	208	175	He	751240.80	2.14
Th	232	175	He	176.67	43.23
U	238	175	He	772867.51	4.37

QC ISTD Table

Calibration Standard Report

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc (No He)	45	No Gas	2053954.50	4.73	1916000.44	107.2	60	120	
Ge (No He)	72	No Gas	552594.05	4.29	518337.463333333	106.61	60	120	
Sc	45	He	21010.68	0.99	20542.3	102.28	60	120	
Ge	72	He	22440.90	0.56	21932.34	102.32	60	120	
Rh	103	He	916047.82	0.92	910360.35	100.62	60	120	
Lu	175	He	471826.89	1.68	456033.236666667	103.46	60	120	

Calibration Standard Report

Sample Name	STD5 14K05175
File Name	007CALS.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\112814ICPMS8.b
Acq Time	2014-11-28 13:28:09
Sample Type	CalStd
Total Dilution	1.0000
Comment	---
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fial	Pass
ISTD QC Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD	Tune Mode	CPS	CPS RSD
B	11	45	No Gas	94092.08	0.71
Se	82	72	No Gas	24573.43	1.04
Be	9	45	He	1341.40	4.35
Na	23	45	He	1583573.99	1.24
Mg	24	45	He	717681.81	2.18
Al	27	45	He	16756.45	4.49
K	39	45	He	439196.67	0.89
Ca	43	45	He	1534.75	2.75
Ti	47	45	He	2473.58	5.61
V	51	45	He	132729.44	1.97
Cr	52	45	He	180072.35	3.84
Mn	55	72	He	58116.59	2.45
Fe	56	72	He	1280749.80	4.17
Co	59	72	He	386949.06	3.83
Ni	60	72	He	113884.64	2.46
Cu	63	72	He	336889.95	2.27
Zn	66	72	He	31441.50	3.55
As	75	72	He	19677.49	2.09
Se	78	72	He	620.01	5.88
Sr	88	72	He	60572.84	2.39
Mo	95	72	He	131173.38	3.06
Ag	107	103	He	539207.39	3.33
Cd	111	103	He	51032.74	3.25
Sn	118	103	He	94443.50	5.00
Sb	121	103	He	115641.76	5.30
Ba	137	103	He	37826.21	6.15
Tl	205	175	He	1132329.88	2.14
Pb	208	175	He	1468649.89	1.53
U	238	175	He	1504538.93	2.97

QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc (No He)	45	No Gas	1928728.41	1.35	1916000.44	100.66	60	120	
Ge (No He)	72	No Gas	523542.02	0.71	518337.463333333	101	60	120	

Calibration Standard Report

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc	45	He	20471.09	0.96	20542.3	99.65	60	120	
Ge	72	He	21983.61	2.03	21932.34	100.23	60	120	
Rh	103	He	896660.12	0.95	910360.35	98.5	60	120	
Lu	175	He	463699.51	2.31	456033.236666667	101.68	60	120	

Calibration Standard Report

Sample Name	STD6 14K05175
File Name	008CALS.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\112814ICPMS8.b
Acq Time	2014-11-28 13:29:51
Sample Type	CalStd
Total Dilution	1.0000
Comment	---
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fial	Pass
ISTD QC Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD	Tune Mode	CPS	CPS RSD
B	11	45	No Gas	195437.09	1.52
Se	82	72	No Gas	48079.60	0.39
Be	9	45	He	2856.28	1.62
Na	23	45	He	3228538.70	0.67
Mg	24	45	He	1473309.20	1.95
Al	27	45	He	34921.57	1.88
K	39	45	He	903925.72	0.33
Ca	43	45	He	3228.69	3.47
Ti	47	45	He	5064.32	13.03
V	51	45	He	278410.91	1.88
Cr	52	45	He	374123.37	2.16
Mn	55	72	He	121727.49	2.32
Fe	56	72	He	2721512.46	2.98
Co	59	72	He	801997.69	2.04
Ni	60	72	He	238235.07	1.78
Cu	63	72	He	695801.00	1.91
Zn	66	72	He	64789.25	3.64
As	75	72	He	40636.90	1.25
Se	78	72	He	1238.06	2.59
Sr	88	72	He	127247.10	1.55
Mo	95	72	He	273948.38	1.36
Ag	107	103	He	1100555.90	3.07
Cd	111	103	He	106997.69	1.96
Sn	118	103	He	198435.66	2.09
Sb	121	103	He	243764.52	1.08
Ba	137	103	He	80371.06	1.01
Tl	205	175	He	2495660.07	0.39
Pb	208	175	He	3021504.07	1.26
U	238	175	He	3303635.47	2.16

QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc (No He)	45	No Gas	1963679.66	0.65	1916000.44	102.49	60	120	
Ge (No He)	72	No Gas	525873.99	0.81	518337.463333333	101.45	60	120	

Calibration Standard Report

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc	45	He	20693.58	0.80	20542.3	100.74	60	120	
Ge	72	He	22243.93	1.07	21932.34	101.42	60	120	
Rh	103	He	908856.94	0.66	910360.35	99.83	60	120	
Lu	175	He	480147.86	0.52	456033.236666667	105.29	60	120	

Initial Calibration Verification (ICV) Report

Sample Name	ICV 14K05178
File Name	009_ICV.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\112814ICPMS8.b
Acq Time	2014-11-28 13:31:31
Sample Type	ICV
Total Dilution	1.0000
Comment	---
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fial	Pass
ISTD QC Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD	Tune Mode	Conc.	Conc. RSD	CPS	ExpValue	% Rec	%QC Low	%QC High	QC Flag
B	10	45	No Gas	0.105	1.76	20808.44	0.9	11.72	10	10	
B	11	45	No Gas	0.106	1.36	101802.77	0.9	11.74	10	10	
Se	82	72	No Gas	0.105	1.95	25361.48	0.9	11.65	10	10	
Be	9	45	He	0.103	2.09	1444.74	0.9	11.47	10	10	
Na	23	45	He	10.394	0.26	1661428.99	0.9	1154.93	1000	1000	
Mg	24	45	He	10.334	1.68	750904.78	0.9	1148.23	1000	1000	
Al	27	45	He	1.035	1.78	17794.29	0.9	115.05	100	100	
K	39	45	He	10.177	1.35	455754.66	0.9	1130.79	1000	1000	
Ca	43	45	He	10.560	1.34	1678.76	0.9	1173.37	1000	1000	
Ti	47	45	He	0.105	2.38	2606.94	0.9	11.63	10	10	
V	51	45	He	0.105	0.65	143515.94	0.9	11.66	10	10	
Cr	52	45	He	0.108	1.56	199115.22	0.9	12	10	10	
Mn	55	72	He	0.104	1.62	63680.00	0.9	11.57	10	10	
Fe	56	72	He	1.040	0.37	1419703.78	0.9	115.6	100	100	
Co	59	72	He	0.105	2.62	423298.33	0.9	11.65	10	10	
Ni	60	72	He	0.104	1.72	124969.82	0.9	11.59	10	10	
Cu	63	72	He	0.104	2.24	365883.00	0.9	11.59	10	10	
Zn	66	72	He	0.104	2.12	33993.69	0.9	11.51	10	10	
As	75	72	He	0.104	1.33	21282.86	0.9	11.55	10	10	
Se	78	72	He	0.102	1.61	640.68	0.9	11.31	10	10	
Sr	88	72	He	0.102	2.00	64871.50	0.9	11.28	10	10	
Mo	95	72	He	0.103	0.10	142002.39	0.9	11.46	10	10	
Ag	107	103	He	0.104	0.20	582948.73	0.9	11.6	10	10	
Cd	111	103	He	0.104	0.40	55943.86	0.9	11.52	10	10	
Sn	118	103	He	0.102	1.23	102029.40	0.9	11.34	10	10	
Sb	121	103	He	0.101	1.42	124443.82	0.9	11.26	10	10	
Ba	137	103	He	0.104	2.05	42001.33	0.9	11.55	10	10	
Tl	205	175	He	0.099	0.86	1229093.68	0.9	11.05	10	10	
Pb	208	175	He	0.103	0.98	1565408.62	0.9	11.45	10	10	
U	238	175	He	0.101	1.03	1648339.30	0.9	11.19	10	10	

QC ISTD Table

Initial Calibration Verification (ICV) Report

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc (No He)	45	No Gas	1948157.06	1.96	1916000.44	101.68	60	120	
Ge (No He)	72	No Gas	520321.80	0.66	518337.463333333	100.38	60	120	
Sc	45	He	20471.03	1.32	20542.3	99.65	60	120	
Ge	72	He	22483.21	1.93	21932.34	102.51	60	120	
Rh	103	He	921578.50	0.42	910360.35	101.23	60	120	
Lu	175	He	481973.86	0.97	456033.236666667	105.69	60	120	

Initial Calibration Blank (ICB) Report

Sample Name	ICB 14K05174
File Name	010_ICB.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\112814ICPMS8.b
Acq Time	2014-11-28 13:33:05
Sample Type	ICB
Total Dilution	1.0000
Comment	---
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fial	Fail
ISTD QC Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD	Tune Mode	Conc.	Conc. RSD	CPS	Limit	QC Flag
B	10	45	No Gas	0.006	3.45	1130.71	0.00075	ICB Main CR1 Failed
B	11	45	No Gas	0.006	4.57	5461.01	0.015	
Se	82	72	No Gas	0.000	191.65	950.04	0.00075	
Be	9	45	He	0.000	NaN	0.00	0.00075	
Na	23	45	He	0.004	29.37	10013.56	0.75	
Mg	24	45	He	0.004	19.63	386.68	0.75	
Al	27	45	He	-0.002	N/A	23.33	0.0375	
K	39	45	He	0.008	46.19	5961.32	0.75	
Ca	43	45	He	0.012	379.58	11.33	0.75	
Ti	47	45	He	0.000	N/A	0.00	0.0075	
V	51	45	He	0.000	54.28	83.33	0.0015	
Cr	52	45	He	0.000	71.93	973.39	0.00075	
Mn	55	72	He	0.000	251.70	70.00	0.0015	
Fe	56	72	He	0.000	N/A	4530.80	0.0375	
Co	59	72	He	0.000	8.39	190.00	0.00075	
Ni	60	72	He	0.000	121.30	223.34	0.00075	
Cu	63	72	He	0.000	10.62	366.68	0.0015	
Zn	66	72	He	0.000	N/A	463.35	0.0075	
As	75	72	He	0.000	70.20	15.55	0.00075	
Se	78	72	He	0.000	N/A	5.00	0.00075	
Sr	88	72	He	0.000	65.76	190.00	0.0075	
Mo	95	72	He	0.000	50.78	43.33	0.0015	
Ag	107	103	He	0.000	13.63	1443.44	0.000375	
Cd	111	103	He	0.000	13.47	30.00	0.000375	
Sn	118	103	He	0.000	108.07	156.67	0.00075	
Sb	121	103	He	0.000	21.34	606.69	0.00075	
Ba	137	103	He	0.000	104.27	40.00	0.0015	
Tl	205	175	He	0.000	13.85	620.03	0.00075	
Pb	208	175	He	0.000	16.51	1223.38	0.00075	
U	238	175	He	0.000	7.38	786.71	0.0075	

QC ISTD Table

Initial Calibration Blank (ICB) Report

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc (No He)	45	No Gas	1903954.66	0.92	1916000.44	99.37	60	120	
Ge (No He)	72	No Gas	519552.66	0.54	518337.463333333	100.23	60	120	
Sc	45	He	20239.61	2.52	20542.3	98.53	60	120	
Ge	72	He	22239.48	2.28	21932.34	101.4	60	120	
Rh	103	He	914123.84	0.72	910360.35	100.41	60	120	
Lu	175	He	471261.77	0.63	456033.236666667	103.34	60	120	

Low Level Initial Calibration Verification(LLICV) Report

Sample Name	LLICV 14K05179
File Name	012LICV.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\112814ICPMS8.b
Acq Time	2014-11-28 13:36:48
Sample Type	LLICV
Total Dilution	1.0000
Comment	---
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fial	Pass
ISTD QC Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD	Tune Mode	Conc.	Conc. RSD	CPS	ExpValue	% Rec	%QC Low	%QC High	QC Flag
Se	82	72	No Gas	0.001	14.59	1180.06	0.001	123.64	70	130	
Be	9	45	He	0.001	5.77	17.00	0.001	121.24	70	130	
V	51	45	He	0.002	3.10	2686.96	0.002	97.1	70	130	
Cr	52	45	He	0.001	18.04	2700.30	0.001	101.16	70	130	
Mn	55	72	He	0.002	7.32	1183.40	0.002	93.43	70	130	
Co	59	72	He	0.001	3.45	4257.36	0.001	105.5	70	130	
Ni	60	72	He	0.001	3.73	1503.44	0.001	115.14	70	130	
Cu	63	72	He	0.001	2.62	3643.87	0.001	98.9	70	130	
Zn	66	72	He	0.009	4.72	3397.12	0.01	89.45	70	130	
As	75	72	He	0.001	7.58	222.22	0.001	107.73	70	130	
Se	78	72	He	0.001	74.13	12.33	0.001	110.87	70	130	
Mo	95	72	He	0.002	4.07	2726.98	0.002	99.26	70	130	
Ag	107	103	He	0.001	1.98	2973.69	0.0005	106.75	70	130	
Cd	111	103	He	0.001	4.57	273.33	0.0005	101.85	70	130	
Sn	118	103	He	0.001	11.17	1033.40	0.001	100.26	70	130	
Sb	121	103	He	0.001	12.56	1626.79	0.001	129.71	70	130	
Ba	137	103	He	0.002	4.77	860.04	0.002	104.17	70	130	
Tl	205	175	He	0.001	4.47	11788.85	0.001	98.12	70	130	
Pb	208	175	He	0.001	4.43	15697.34	0.001	104.83	70	130	

QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc (No He)	45	No Gas	1853733.93	2.68	1916000.44	96.75	60	120	
Ge (No He)	72	No Gas	510288.25	0.62	518337.463333333	98.45	60	120	
Sc	45	He	20503.27	0.35	20542.3	99.81	60	120	
Ge	72	He	22407.53	0.80	21932.34	102.17	60	120	
Rh	103	He	916766.39	0.61	910360.35	100.7	60	120	
Lu	175	He	466151.49	0.81	456033.236666667	102.22	60	120	

Interference Check Solution A (ICS-A) Report

Sample Name	ICSA 14K05180
File Name	013ICSA.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\112814ICPMS8.b
Acq Time	2014-11-28 13:38:36
Sample Type	ICSA
Total Dilution	1.0000
Comment	---
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fial	Pass
ISTD QC Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD	Tune Mode	Conc.	Conc. RSD	CPS	ExpValue	%QC Low	%QC High	QC Flag
Na	23	45	He	95.077	1.54	14734463.53	0.8	10000	10000	
Mg	24	45	He	95.228	2.25	6742583.65	0.8	10000	10000	
Al	27	45	He	97.372	2.29	1625055.86	0.8	10000	10000	
K	39	45	He	90.712	2.51	3914776.50	0.8	10000	10000	
Ca	43	45	He	87.515	2.22	13487.53	0.8	10000	10000	
Ti	47	45	He	1.958	2.05	47336.88	0.8	200	200	
Fe	56	72	He	95.869	0.66	124817011.47	0.8	10000	10000	
Mo	95	72	He	2.035	0.44	2681435.48	0.8	200	200	

QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc (No He)	45	No Gas	1877159.97	0.56	1916000.44	97.97	60	120	
Ge (No He)	72	No Gas	516973.23	0.66	518337.463333333	99.74	60	120	
Sc	45	He	19952.59	1.87	20542.3	97.13	60	120	
Ge	72	He	21523.96	0.60	21932.34	98.14	60	120	
Rh	103	He	852844.57	0.58	910360.35	93.68	60	120	
Lu	175	He	467193.82	0.52	456033.236666667	102.45	60	120	

Interference Check Solution AB (ICS-AB) Report

Sample Name	ICSAB 14K05181
File Name	014ICSB.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\112814ICPMS8.b
Acq Time	2014-11-28 13:40:07
Sample Type	ICSB
Total Dilution	1.0000
Comment	---
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fial	Pass
ISTD QC Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD	Tune Mode	Conc.	Conc. RSD	CPS	ExpValue	%QC Low	%QC High	QC Flag

QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc (No He)	45	No Gas	1826368.72	0.29	1916000.44	95.32	60	120	
Ge (No He)	72	No Gas	509375.05	0.86	518337.463333333	98.27	60	120	
Sc	45	He	19243.79	2.27	20542.3	93.68	60	120	
Ge	72	He	21259.12	1.74	21932.34	96.93	60	120	
Rh	103	He	828164.23	0.43	910360.35	90.97	60	120	
Lu	175	He	453355.92	0.83	456033.236666667	99.41	60	120	

Continuing Calibration Verification (CCV) Report

Sample Name	CCV 14K05175
File Name	033_CCV.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\112814ICPMS8.b
Acq Time	2014-11-28 14:24:00
Sample Type	CCV
Total Dilution	1.0000
Comment	---
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fial	Pass
ISTD QC Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD	Tune Mode	Conc.	Conc. RSD	CPS	ExpValue	% Rec	%QC Low	%QC High	QC Flag
B	10	45	No Gas	0.094	3.69	19647.55	0.9	10.47	10	10	
B	11	45	No Gas	0.094	4.15	95434.72	0.9	10.41	10	10	
Se	82	72	No Gas	0.100	1.86	25987.09	0.9	11.09	10	10	
Be	9	45	He	0.103	4.00	1481.74	0.9	11.43	10	10	
Na	23	45	He	10.224	0.62	1681797.89	0.9	1135.97	1000	1000	
Mg	24	45	He	10.151	1.79	759069.88	0.9	1127.87	1000	1000	
Al	27	45	He	0.986	2.37	17437.19	0.9	109.51	100	100	
K	39	45	He	10.033	1.38	462464.35	0.9	1114.76	1000	1000	
Ca	43	45	He	10.091	2.60	1650.76	0.9	1121.17	1000	1000	
Ti	47	45	He	0.097	3.22	2480.26	0.9	10.75	10	10	
V	51	45	He	0.102	0.60	143082.05	0.9	11.29	10	10	
Cr	52	45	He	0.103	1.78	196244.24	0.9	11.49	10	10	
Mn	55	72	He	0.100	1.22	62096.13	0.9	11.11	10	10	
Fe	56	72	He	1.010	1.60	1398782.79	0.9	112.22	100	100	
Co	59	72	He	0.103	2.31	421352.60	0.9	11.42	10	10	
Ni	60	72	He	0.102	2.11	124317.46	0.9	11.36	10	10	
Cu	63	72	He	0.104	1.69	370197.73	0.9	11.55	10	10	
Zn	66	72	He	0.102	1.55	34027.20	0.9	11.35	10	10	
As	75	72	He	0.102	1.22	21152.45	0.9	11.31	10	10	
Se	78	72	He	0.104	7.08	664.02	0.9	11.54	10	10	
Sr	88	72	He	0.099	1.43	64134.70	0.9	10.99	10	10	
Mo	95	72	He	0.104	2.12	144658.01	0.9	11.51	10	10	
Ag	107	103	He	0.103	0.72	595696.89	0.9	11.46	10	10	
Cd	111	103	He	0.101	1.17	56407.68	0.9	11.23	10	10	
Sn	118	103	He	0.100	1.74	103539.78	0.9	11.12	10	10	
Sb	121	103	He	0.099	0.47	125455.57	0.9	10.97	10	10	
Ba	137	103	He	0.099	1.32	41459.55	0.9	11.02	10	10	
Tl	205	175	He	0.100	0.76	1263169.18	0.9	11.08	10	10	
Pb	208	175	He	0.104	0.66	1616420.86	0.9	11.53	10	10	
U	238	175	He	0.101	0.53	1699893.88	0.9	11.26	10	10	

QC ISTD Table

Continuing Calibration Verification (CCV) Report

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc (No He)	45	No Gas	2060147.94	3.35	1916000.44	107.52	60	120	
Ge (No He)	72	No Gas	559278.59	0.45	518337.463333333	107.9	60	120	
Sc	45	He	21066.29	0.96	20542.3	102.55	60	120	
Ge	72	He	22819.25	1.52	21932.34	104.04	60	120	
Rh	103	He	953872.64	0.64	910360.35	104.78	60	120	
Lu	175	He	493917.28	1.25	456033.236666667	108.31	60	120	

Continuing Calibration Blank (CCB) Report

Sample Name	CCB 14K05174
File Name	034_CCB.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\112814ICPMS8.b
Acq Time	2014-11-28 14:25:33
Sample Type	CCB
Total Dilution	1.0000
Comment	---
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fial	Pass
ISTD QC Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD	Tune Mode	Conc.	Conc. RSD	CPS	Limit	QC Flag
B	10	45	No Gas	0.004	9.37	758.69	0.015	
B	11	45	No Gas	0.004	4.74	3733.81	0.015	
Se	82	72	No Gas	0.000	193.15	940.04	0.00075	
Be	9	45	He	0.000	173.21	0.33	0.00075	
Na	23	45	He	0.003	99.48	9913.46	0.75	
Mg	24	45	He	0.001	30.51	216.68	0.75	
Al	27	45	He	-0.001	N/A	50.00	0.0375	
K	39	45	He	-0.006	N/A	5367.77	0.75	
Ca	43	45	He	-0.021	N/A	6.33	0.75	
Ti	47	45	He	0.000	N/A	0.00	0.0075	
V	51	45	He	0.000	259.93	30.00	0.0015	
Cr	52	45	He	0.000	N/A	700.03	0.00075	
Mn	55	72	He	0.000	N/A	43.33	0.0015	
Fe	56	72	He	0.000	845.57	4744.20	0.0375	
Co	59	72	He	0.000	51.01	66.67	0.00075	
Ni	60	72	He	0.001	7.76	780.04	0.00075	
Cu	63	72	He	0.000	79.03	266.68	0.0015	
Zn	66	72	He	0.000	N/A	483.35	0.0075	
As	75	72	He	0.000	66.71	10.22	0.00075	
Se	78	72	He	0.000	N/A	5.00	0.00075	
Sr	88	72	He	0.000	183.02	150.00	0.0075	
Mo	95	72	He	0.000	25.34	26.67	0.0015	
Ag	107	103	He	0.000	29.91	226.67	0.000375	
Cd	111	103	He	0.000	31.91	13.33	0.000375	
Sn	118	103	He	0.000	26.47	100.00	0.00075	
Sb	121	103	He	0.000	9.96	396.68	0.00075	
Ba	137	103	He	0.000	91.96	46.67	0.0015	
Tl	205	175	He	0.000	5.49	306.68	0.00075	
Pb	208	175	He	0.000	22.71	750.03	0.00075	
U	238	175	He	0.000	14.82	283.34	0.0075	

QC ISTD Table

Continuing Calibration Blank (CCB) Report

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc (No He)	45	No Gas	1923391.80	1.34	1916000.44	100.39	60	120	
Ge (No He)	72	No Gas	526198.87	0.42	518337.463333333	101.52	60	120	
Sc	45	He	20173.95	3.07	20542.3	98.21	60	120	
Ge	72	He	21862.26	0.67	21932.34	99.68	60	120	
Rh	103	He	932331.18	0.78	910360.35	102.41	60	120	
Lu	175	He	470237.02	0.87	456033.236666667	103.11	60	120	

Sample Report

Sample Name	BLANK WG756357
File Name	035SMPL.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\112814ICPMS8.b
Acq Time	2014-11-28 14:27:21
Sample Type	Sample
Total Dilution	1.1111
Comment	---
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fial	Pass
ISTD QC Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD	Tune Mode	Conc.	Conc. RSD	CPS	LDR	QC Flag
B	10	45	No Gas	0.003	3.83	548.01	5	
B	11	45	No Gas	0.003	8.45	2583.57	5	
Se	82	72	No Gas	0.001	27.53	967.82	5	
Be	9	45	He	0.000	1.03	1.00	5	
Na	23	45	He	0.007	19.63	9346.42	90	
Mg	24	45	He	0.001	54.53	136.67	90	
Al	27	45	He	0.000	4675.55	56.67	90	
K	39	45	He	0.005	124.97	5247.70	90	
Ca	43	45	He	0.001	1832.04	8.67	90	
Ti	47	45	He	0.000	N/A	3.33	5	
V	51	45	He	0.000	N/A	16.67	5	
Cr	52	45	He	0.000	39.90	1213.41	5	
Mn	55	72	He	0.000	1003.39	43.33	5	
Fe	56	72	He	-0.001	N/A	3073.73	90	
Co	59	72	He	0.000	75.58	36.67	5	
Ni	60	72	He	0.000	120.55	130.00	5	
Cu	63	72	He	0.000	8.94	380.01	5	
Zn	66	72	He	-0.001	N/A	290.01	5	
As	75	72	He	0.000	95.49	4.89	5	
Se	78	72	He	0.000	641.81	5.33	5	
Sr	88	72	He	0.000	N/A	86.67	5	
Mo	95	72	He	0.000	64.60	30.00	5	
Ag	107	103	He	0.000	32.41	26.67	1	
Cd	111	103	He	0.000	33.29	6.00	5	
Sn	118	103	He	0.000	40.52	126.67	2	
Sb	121	103	He	0.000	50.43	150.00	1	
Ba	137	103	He	0.000	N/A	13.33	2	
Tl	205	175	He	0.000	13.74	170.00	5	
Pb	208	175	He	0.000	37.16	493.34	5	
U	238	175	He	0.000	16.68	43.33	5	

QC ISTD Table

Sample Report

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc (No He)	45	No Gas	1687106.80	2.34	1916000.44	88.05	60	120	
Ge (No He)	72	No Gas	456994.75	1.00	518337.463333333	88.17	60	120	
Sc	45	He	18198.03	1.03	20542.3	88.59	60	120	
Ge	72	He	19868.22	0.84	21932.34	90.59	60	120	
Rh	103	He	839578.89	0.54	910360.35	92.22	60	120	
Lu	175	He	431593.80	0.95	456033.236666667	94.64	60	120	

Sample Report

Sample Name	LCS WG756357
File Name	036SMPL.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\112814ICPMS8.b
Acq Time	2014-11-28 14:28:52
Sample Type	Sample
Total Dilution	1.1111
Comment	---
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fial	Pass
ISTD QC Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD	Tune Mode	Conc.	Conc. RSD	CPS	LDR	QC Flag
B	10	45	No Gas	0.053	2.93	8518.44	5	
B	11	45	No Gas	0.053	2.83	41639.03	5	
Se	82	72	No Gas	0.050	2.29	10357.14	5	
Be	9	45	He	0.049	3.42	571.68	5	
Na	23	45	He	0.519	2.09	77284.50	90	
Mg	24	45	He	0.506	4.88	30611.90	90	
Al	27	45	He	0.046	10.62	706.69	90	
K	39	45	He	0.507	1.28	23893.21	90	
Ca	43	45	He	0.986	10.27	138.33	90	
Ti	47	45	He	0.051	8.22	1060.06	5	
V	51	45	He	0.053	2.44	60425.64	5	
Cr	52	45	He	0.051	0.72	79040.99	5	
Mn	55	72	He	0.051	0.90	25873.47	5	
Fe	56	72	He	0.052	1.51	62062.72	90	
Co	59	72	He	0.052	2.54	174302.69	5	
Ni	60	72	He	0.051	1.89	50629.04	5	
Cu	63	72	He	0.052	1.60	150329.83	5	
Zn	66	72	He	0.051	1.22	14100.45	5	
As	75	72	He	0.047	1.97	7901.30	5	
Se	78	72	He	0.051	9.91	269.33	5	
Sr	88	72	He	0.051	2.79	26932.52	5	
Mo	95	72	He	0.051	0.85	57972.30	5	
Ag	107	103	He	0.051	1.87	237007.84	1	
Cd	111	103	He	0.050	1.33	22522.76	5	
Sn	118	103	He	0.049	3.26	41398.48	2	
Sb	121	103	He	0.051	2.14	52368.93	1	
Ba	137	103	He	0.050	2.26	16984.13	2	
Tl	205	175	He	0.050	1.26	512845.62	5	
Pb	208	175	He	0.053	0.91	660462.51	5	
U	238	175	He	0.000	76.78	36.67	5	

QC ISTD Table

Sample Report

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc (No He)	45	No Gas	1743766.59	0.38	1916000.44	91.01	60	120	
Ge (No He)	72	No Gas	470083.77	0.84	518337.463333333	90.69	60	120	
Sc	45	He	18897.79	1.34	20542.3	91.99	60	120	
Ge	72	He	20553.65	0.22	21932.34	93.71	60	120	
Rh	103	He	858412.20	0.99	910360.35	94.29	60	120	
Lu	175	He	442081.43	1.08	456033.236666667	96.94	60	120	

Sample Report

Sample Name	LCSD WG756357
File Name	037SMPL.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\112814ICPMS8.b
Acq Time	2014-11-28 14:30:24
Sample Type	Sample
Total Dilution	1.1111
Comment	---
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fial	Pass
ISTD QC Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD	Tune Mode	Conc.	Conc. RSD	CPS	LDR	QC Flag
B	10	45	No Gas	0.055	0.54	8910.67	5	
B	11	45	No Gas	0.054	2.60	42943.33	5	
Se	82	72	No Gas	0.049	0.62	10328.23	5	
Be	9	45	He	0.048	4.95	565.34	5	
Na	23	45	He	0.520	3.44	77679.79	90	
Mg	24	45	He	0.509	5.74	30936.03	90	
Al	27	45	He	0.051	13.50	786.70	90	
K	39	45	He	0.510	7.00	24043.36	90	
Ca	43	45	He	0.817	7.40	116.67	90	
Ti	47	45	He	0.050	5.76	1053.39	5	
V	51	45	He	0.053	1.53	59863.18	5	
Cr	52	45	He	0.052	2.79	80006.52	5	
Mn	55	72	He	0.053	2.09	26040.42	5	
Fe	56	72	He	0.053	1.08	62464.46	90	
Co	59	72	He	0.054	0.31	175170.00	5	
Ni	60	72	He	0.053	1.84	51558.66	5	
Cu	63	72	He	0.053	1.59	149852.52	5	
Zn	66	72	He	0.050	0.82	13549.94	5	
As	75	72	He	0.048	0.70	7939.98	5	
Se	78	72	He	0.051	1.74	263.00	5	
Sr	88	72	He	0.051	1.28	26645.42	5	
Mo	95	72	He	0.053	2.02	58494.33	5	
Ag	107	103	He	0.051	0.41	236832.25	1	
Cd	111	103	He	0.051	0.70	22875.99	5	
Sn	118	103	He	0.049	3.56	41111.07	2	
Sb	121	103	He	0.052	2.00	53121.74	1	
Ba	137	103	He	0.052	5.66	17418.02	2	
Tl	205	175	He	0.050	0.81	512379.97	5	
Pb	208	175	He	0.053	0.26	668113.16	5	
U	238	175	He	0.000	74.40	20.00	5	

QC ISTD Table

Sample Report

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc (No He)	45	No Gas	1774088.51	0.75	1916000.44	92.59	60	120	
Ge (No He)	72	No Gas	477837.49	0.75	518337.463333333	92.19	60	120	
Sc	45	He	18958.98	2.01	20542.3	92.29	60	120	
Ge	72	He	20219.81	0.23	21932.34	92.19	60	120	
Rh	103	He	853741.39	0.66	910360.35	93.78	60	120	
Lu	175	He	443268.73	0.58	456033.236666667	97.2	60	120	

Sample Report

Sample Name	L734231-15 WG756357
File Name	038SMPL.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\112814ICPMS8.b
Acq Time	2014-11-28 14:31:54
Sample Type	Sample
Total Dilution	5.5556
Comment	---
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fial	Fail
ISTD QC Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD	Tune Mode	Conc.	Conc. RSD	CPS	LDR	QC Flag
B	10	45	No Gas	1.579	1.41	55845.56	5	
B	11	45	No Gas	1.568	1.23	271044.33	5	
Se	82	72	No Gas	0.002	44.58	997.82	5	
Be	9	45	He	0.000	173.21	0.33	5	
Na	23	45	He	1808.298	2.24	50620574.25	90	>LDR
Mg	24	45	He	577.937	0.89	7396634.47	90	>LDR
Al	27	45	He	0.206	47.15	680.08	90	
K	39	45	He	107.480	1.02	842845.85	90	
Ca	43	45	He	753.223	1.90	20973.98	90	>LDR
Ti	47	45	He	0.007	58.33	40.00	5	
V	51	45	He	0.002	12.09	440.01	5	
Cr	52	45	He	0.001	90.89	1006.72	5	
Mn	55	72	He	0.373	2.58	40312.95	5	
Fe	56	72	He	0.188	2.48	49862.71	90	
Co	59	72	He	0.002	8.87	1166.74	5	
Ni	60	72	He	0.002	20.55	536.69	5	
Cu	63	72	He	0.000	14.13	486.68	5	
Zn	66	72	He	-0.005	N/A	246.68	5	
As	75	72	He	0.002	9.08	69.78	5	
Se	78	72	He	0.001	120.22	7.00	5	
Sr	88	72	He	15.565	1.25	1750553.88	5	
Mo	95	72	He	0.289	0.99	70170.56	5	
Ag	107	103	He	0.001	12.88	530.02	1	
Cd	111	103	He	0.000	32.59	16.00	5	
Sn	118	103	He	0.000	40.66	100.00	2	
Sb	121	103	He	0.002	28.09	363.34	1	
Ba	137	103	He	0.044	9.99	3023.71	2	
Tl	205	175	He	0.000	0.53	260.01	5	
Pb	208	175	He	0.001	8.02	2226.79	5	
U	238	175	He	0.028	1.21	81003.62	5	

QC ISTD Table

Sample Report

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc (No He)	45	No Gas	1944245.91	0.43	1916000.44	101.47	60	120	
Ge (No He)	72	No Gas	521909.80	0.68	518337.463333333	100.69	60	120	
Sc	45	He	20032.64	1.47	20542.3	97.52	60	120	
Ge	72	He	22024.69	0.75	21932.34	100.42	60	120	
Rh	103	He	859977.10	0.66	910360.35	94.47	60	120	
Lu	175	He	468381.89	0.41	456033.236666667	102.71	60	120	

Sample Report

Sample Name	SD L734231-15 WG756357
File Name	039SMPL.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\112814ICPMS8.b
Acq Time	2014-11-28 14:33:25
Sample Type	Sample
Total Dilution	27.7778
Comment	---
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fial	Pass
ISTD QC Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD	Tune Mode	Conc.	Conc. RSD	CPS	LDR	QC Flag
B	10	45	No Gas	1.656	0.67	11940.11	5	
B	11	45	No Gas	1.649	0.75	58085.45	5	
Se	82	72	No Gas	0.004	193.15	984.49	5	
Be	9	45	He	0.000	NaN	0.00	5	
Na	23	45	He	1772.851	1.12	10131357.56	90	
Mg	24	45	He	575.822	1.01	1503324.87	90	
Al	27	45	He	0.012	283.98	70.00	90	
K	39	45	He	103.531	2.00	170174.82	90	
Ca	43	45	He	715.624	1.60	4072.57	90	
Ti	47	45	He	-0.008	N/A	3.33	5	
V	51	45	He	0.001	53.80	93.33	5	
Cr	52	45	He	-0.001	N/A	766.70	5	
Mn	55	72	He	0.372	2.23	8305.86	5	
Fe	56	72	He	0.130	1.05	11317.94	90	
Co	59	72	He	0.001	27.54	223.34	5	
Ni	60	72	He	0.000	397.05	140.00	5	
Cu	63	72	He	0.000	N/A	163.34	5	
Zn	66	72	He	-0.035	N/A	110.00	5	
As	75	72	He	0.002	25.00	20.89	5	
Se	78	72	He	0.002	420.18	6.00	5	
Sr	88	72	He	14.169	1.37	328688.23	5	
Mo	95	72	He	0.279	4.83	13953.79	5	
Ag	107	103	He	0.001	40.01	123.33	1	
Cd	111	103	He	0.000	65.68	4.67	5	
Sn	118	103	He	0.001	53.03	70.00	2	
Sb	121	103	He	0.002	72.54	140.00	1	
Ba	137	103	He	0.042	25.78	646.70	2	
Tl	205	175	He	0.000	54.91	106.67	5	
Pb	208	175	He	0.000	26.84	546.68	5	
U	238	175	He	0.027	1.53	15609.65	5	

QC ISTD Table

Sample Report

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc (No He)	45	No Gas	1973462.73	0.94	1916000.44	103	60	120	
Ge (No He)	72	No Gas	541403.89	0.69	518337.463333333	104.45	60	120	
Sc	45	He	20429.88	0.96	20542.3	99.45	60	120	
Ge	72	He	22708.00	1.26	21932.34	103.54	60	120	
Rh	103	He	931397.28	0.43	910360.35	102.31	60	120	
Lu	175	He	479346.36	0.89	456033.236666667	105.11	60	120	

Sample Report

Sample Name	MS L734231-15 WG756357
File Name	040SMPL.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\112814ICPMS8.b
Acq Time	2014-11-28 14:34:58
Sample Type	Sample
Total Dilution	5.5556
Comment	---
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fial	Fail
ISTD QC Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD	Tune Mode	Conc.	Conc. RSD	CPS	LDR	QC Flag
B	10	45	No Gas	1.654	1.39	55051.93	5	
B	11	45	No Gas	1.647	1.46	267833.05	5	
Se	82	72	No Gas	0.055	4.39	3081.46	5	
Be	9	45	He	0.052	5.31	126.00	5	
Na	23	45	He	1794.676	2.82	49358690.93	90	>LDR
Mg	24	45	He	575.004	2.38	7229923.64	90	>LDR
Al	27	45	He	0.228	19.73	736.70	90	
K	39	45	He	106.906	1.44	823754.13	90	
Ca	43	45	He	741.575	1.78	20290.68	90	>LDR
Ti	47	45	He	0.053	25.31	236.67	5	
V	51	45	He	0.059	2.14	13886.83	5	
Cr	52	45	He	0.053	3.65	17654.37	5	
Mn	55	72	He	0.429	3.04	44819.64	5	
Fe	56	72	He	0.243	3.80	60924.90	90	
Co	59	72	He	0.056	2.33	38839.04	5	
Ni	60	72	He	0.054	5.63	11094.46	5	
Cu	63	72	He	0.053	3.09	31594.92	5	
Zn	66	72	He	0.048	8.25	3123.72	5	
As	75	72	He	0.056	2.51	1955.69	5	
Se	78	72	He	0.046	34.18	53.67	5	
Sr	88	72	He	15.578	3.34	1694670.91	5	
Mo	95	72	He	0.345	2.40	80975.07	5	
Ag	107	103	He	0.054	2.50	49658.26	1	
Cd	111	103	He	0.053	1.66	4742.82	5	
Sn	118	103	He	0.055	3.52	9086.44	2	
Sb	121	103	He	0.058	2.41	11895.28	1	
Ba	137	103	He	0.099	5.33	6655.07	2	
Tl	205	175	He	0.050	1.90	106811.38	5	
Pb	208	175	He	0.053	0.88	138305.32	5	
U	238	175	He	0.028	0.65	78464.65	5	

QC ISTD Table

Sample Report

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc (No He)	45	No Gas	1829166.79	0.89	1916000.44	95.47	60	120	
Ge (No He)	72	No Gas	499114.01	1.21	518337.463333333	96.29	60	120	
Sc	45	He	19686.62	2.45	20542.3	95.83	60	120	
Ge	72	He	21312.53	2.53	21932.34	97.17	60	120	
Rh	103	He	848497.54	0.48	910360.35	93.2	60	120	
Lu	175	He	459033.57	0.46	456033.236666667	100.66	60	120	

Sample Report

Sample Name	MSD L734231-15 WG756357
File Name	041SMPL.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\112814ICPMS8.b
Acq Time	2014-11-28 14:36:29
Sample Type	Sample
Total Dilution	5.5556
Comment	---
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fial	Fail
ISTD QC Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD	Tune Mode	Conc.	Conc. RSD	CPS	LDR	QC Flag
B	10	45	No Gas	1.671	0.23	57871.18	5	
B	11	45	No Gas	1.671	0.48	282748.79	5	
Se	82	72	No Gas	0.054	9.37	3101.46	5	
Be	9	45	He	0.077	55.40	129.33	5	
Na	23	45	He	2699.238	57.46	51414189.24	90	>LDR
Mg	24	45	He	851.237	55.98	7449500.30	90	>LDR
Al	27	45	He	0.343	73.01	716.70	90	
K	39	45	He	158.709	57.80	844718.37	90	
Ca	43	45	He	1111.430	57.05	21085.12	90	>LDR
Ti	47	45	He	0.071	58.97	223.34	5	
V	51	45	He	0.085	55.54	14016.95	5	
Cr	52	45	He	0.079	58.36	18031.41	5	
Mn	55	72	He	0.649	57.17	46478.11	5	
Fe	56	72	He	0.392	62.95	64899.06	90	
Co	59	72	He	0.082	57.77	38808.91	5	
Ni	60	72	He	0.079	61.72	10967.68	5	
Cu	63	72	He	0.080	60.95	32560.52	5	
Zn	66	72	He	0.081	69.27	3337.13	5	
As	75	72	He	0.084	56.63	2008.59	5	
Se	78	72	He	0.078	62.69	60.33	5	
Sr	88	72	He	23.830	58.90	1767890.39	5	
Mo	95	72	He	0.515	58.46	82600.89	5	
Ag	107	103	He	0.078	54.48	49310.36	1	
Cd	111	103	He	0.081	57.03	4964.23	5	
Sn	118	103	He	0.079	53.55	9076.47	2	
Sb	121	103	He	0.086	54.05	12028.73	1	
Ba	137	103	He	0.150	55.83	6891.87	2	
Tl	205	175	He	0.075	55.77	106078.38	5	
Pb	208	175	He	0.081	57.26	140739.89	5	
U	238	175	He	0.043	56.50	80205.40	5	

QC ISTD Table

Sample Report

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc (No He)	45	No Gas	1903097.73	0.66	1916000.44	99.33	60	120	
Ge (No He)	72	No Gas	508223.40	0.13	518337.463333333	98.05	60	120	
Sc	45	He	16250.58	42.13	20542.3	79.11	60	120	
Ge	72	He	17439.07	42.52	21932.34	79.51	60	120	
Rh	103	He	687091.93	41.59	910360.35	75.47	60	120	
Lu	175	He	365670.69	42.19	456033.236666667	80.19	60	120	

Sample Report

Sample Name	MSD L734231-15 WG756357
File Name	042SMPL.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\112814ICPMS8.b
Acq Time	2014-11-28 14:38:21
Sample Type	Sample
Total Dilution	5.5556
Comment	---
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fial	Fail
ISTD QC Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD	Tune Mode	Conc.	Conc. RSD	CPS	LDR	QC Flag
B	10	45	No Gas	1.543	1.26	51385.04	5	
B	11	45	No Gas	1.531	1.79	249048.03	5	
Se	82	72	No Gas	0.050	7.65	2873.64	5	
Be	9	45	He	0.049	11.45	119.33	5	
Na	23	45	He	1628.482	0.67	44714141.00	90	>LDR
Mg	24	45	He	518.800	1.17	6512262.40	90	>LDR
Al	27	45	He	0.191	9.75	626.69	90	
K	39	45	He	96.085	1.44	739566.60	90	
Ca	43	45	He	666.706	0.88	18211.29	90	>LDR
Ti	47	45	He	0.045	33.36	203.34	5	
V	51	45	He	0.051	4.14	12088.57	5	
Cr	52	45	He	0.047	1.17	15762.14	5	
Mn	55	72	He	0.392	3.71	40683.93	5	
Fe	56	72	He	0.221	0.68	55439.29	90	
Co	59	72	He	0.051	1.95	34965.92	5	
Ni	60	72	He	0.051	4.23	10370.55	5	
Cu	63	72	He	0.047	2.72	28404.97	5	
Zn	66	72	He	0.043	3.44	2867.00	5	
As	75	72	He	0.052	4.68	1793.90	5	
Se	78	72	He	0.049	19.24	57.00	5	
Sr	88	72	He	13.563	0.82	1466131.23	5	
Mo	95	72	He	0.315	0.73	73544.28	5	
Ag	107	103	He	0.048	1.55	43567.96	1	
Cd	111	103	He	0.049	4.11	4344.69	5	
Sn	118	103	He	0.046	1.45	7578.89	2	
Sb	121	103	He	0.051	4.91	10130.54	1	
Ba	137	103	He	0.091	5.01	6008.10	2	
Tl	205	175	He	0.046	1.41	94978.18	5	
Pb	208	175	He	0.048	0.81	122776.44	5	
U	238	175	He	0.025	1.34	69942.91	5	

QC ISTD Table

Sample Report

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc (No He)	45	No Gas	1829879.87	1.28	1916000.44	95.51	60	120	
Ge (No He)	72	No Gas	493285.32	1.06	518337.463333333	95.17	60	120	
Sc	45	He	19645.46	1.03	20542.3	95.63	60	120	
Ge	72	He	21168.97	1.43	21932.34	96.52	60	120	
Rh	103	He	833270.12	0.58	910360.35	91.53	60	120	
Lu	175	He	450925.29	0.60	456033.236666667	98.88	60	120	

Sample Report

Sample Name	L734231-18 WG756357
File Name	043SMPL.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\112814ICPMS8.b
Acq Time	2014-11-28 14:40:10
Sample Type	Sample
Total Dilution	5.5556
Comment	---
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fial	Fail
ISTD QC Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD	Tune Mode	Conc.	Conc. RSD	CPS	LDR	QC Flag
B	10	45	No Gas	2.221	1.15	72990.72	5	
B	11	45	No Gas	2.218	1.01	356208.53	5	
Se	82	72	No Gas	0.004	9.06	1015.60	5	
Be	9	45	He	0.000	NaN	0.00	5	
Na	23	45	He	3936.286	3.79	108693651.71	90	>LDR
Mg	24	45	He	885.915	1.96	11189063.17	90	>LDR
Al	27	45	He	0.005	202.10	76.67	90	
K	39	45	He	211.027	4.06	1627019.66	90	
Ca	43	45	He	767.555	2.67	21090.14	90	>LDR
Ti	47	45	He	0.001	168.36	13.33	5	
V	51	45	He	0.001	22.52	370.01	5	
Cr	52	45	He	0.000	N/A	780.03	5	
Mn	55	72	He	0.609	1.03	62722.37	5	
Fe	56	72	He	0.001	211.56	4690.87	90	
Co	59	72	He	0.001	6.22	740.03	5	
Ni	60	72	He	0.003	8.01	746.70	5	
Cu	63	72	He	0.000	148.14	240.01	5	
Zn	66	72	He	-0.005	N/A	186.67	5	
As	75	72	He	0.002	8.48	83.11	5	
Se	78	72	He	-0.001	N/A	4.00	5	
Sr	88	72	He	17.194	1.75	1846322.84	5	
Mo	95	72	He	0.568	1.28	131555.01	5	
Ag	107	103	He	0.001	3.76	476.69	1	
Cd	111	103	He	0.000	75.10	10.67	5	
Sn	118	103	He	0.000	37.71	86.67	2	
Sb	121	103	He	0.001	13.72	320.01	1	
Ba	137	103	He	0.028	5.81	1836.83	2	
Tl	205	175	He	0.000	38.84	153.34	5	
Pb	208	175	He	0.000	22.72	643.35	5	
U	238	175	He	0.040	2.75	108271.57	5	

QC ISTD Table

Sample Report

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc (No He)	45	No Gas	1806952.31	1.00	1916000.44	94.31	60	120	
Ge (No He)	72	No Gas	483229.46	0.48	518337.463333333	93.23	60	120	
Sc	45	He	19776.74	3.59	20542.3	96.27	60	120	
Ge	72	He	21032.13	1.57	21932.34	95.9	60	120	
Rh	103	He	813419.62	0.81	910360.35	89.35	60	120	
Lu	175	He	442336.86	0.46	456033.236666667	97	60	120	

Sample Report

Sample Name	L734231-21 WG756357
File Name	044SMPL.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\112814ICPMS8.b
Acq Time	2014-11-28 14:41:41
Sample Type	Sample
Total Dilution	5.5556
Comment	---
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fial	Fail
ISTD QC Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD	Tune Mode	Conc.	Conc. RSD	CPS	LDR	QC Flag
B	10	45	No Gas	2.213	1.31	72874.17	5	
B	11	45	No Gas	2.217	1.03	356764.82	5	
Se	82	72	No Gas	0.003	82.95	958.93	5	
Be	9	45	He	0.000	NaN	0.00	5	
Na	23	45	He	4533.976	1.92	125652891.46	90	>LDR
Mg	24	45	He	856.631	1.90	10853632.76	90	>LDR
Al	27	45	He	0.029	36.43	146.67	90	
K	39	45	He	223.100	1.25	1726147.63	90	
Ca	43	45	He	736.341	1.85	20302.03	90	>LDR
Ti	47	45	He	-0.001	N/A	3.33	5	
V	51	45	He	0.001	5.83	153.34	5	
Cr	52	45	He	0.001	27.86	1140.06	5	
Mn	55	72	He	0.594	0.48	61319.61	5	
Fe	56	72	He	0.052	1.08	16362.79	90	
Co	59	72	He	0.001	7.87	603.36	5	
Ni	60	72	He	0.002	32.02	500.02	5	
Cu	63	72	He	0.000	42.02	303.34	5	
Zn	66	72	He	-0.003	N/A	296.68	5	
As	75	72	He	0.002	15.74	81.33	5	
Se	78	72	He	0.003	96.59	8.33	5	
Sr	88	72	He	15.640	1.44	1682381.80	5	
Mo	95	72	He	0.378	0.48	87825.55	5	
Ag	107	103	He	0.000	15.16	86.67	1	
Cd	111	103	He	0.000	124.89	3.33	5	
Sn	118	103	He	0.000	78.63	73.33	2	
Sb	121	103	He	0.002	3.42	330.01	1	
Ba	137	103	He	0.049	0.25	3117.08	2	
Tl	205	175	He	0.000	178.05	70.00	5	
Pb	208	175	He	0.000	27.59	693.35	5	
U	238	175	He	0.033	0.69	85552.63	5	

QC ISTD Table

Sample Report

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc (No He)	45	No Gas	1810589.92	1.12	1916000.44	94.5	60	120	
Ge (No He)	72	No Gas	482521.71	0.74	518337.463333333	93.09	60	120	
Sc	45	He	19834.60	1.87	20542.3	96.55	60	120	
Ge	72	He	21064.38	0.74	21932.34	96.04	60	120	
Rh	103	He	798651.29	0.28	910360.35	87.73	60	120	
Lu	175	He	429699.09	1.16	456033.236666667	94.23	60	120	

Sample Report

Sample Name	L734231-23 WG756357
File Name	045SMPL.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\112814ICPMS8.b
Acq Time	2014-11-28 14:43:13
Sample Type	Sample
Total Dilution	5.5556
Comment	---
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fial	Fail
ISTD QC Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD	Tune Mode	Conc.	Conc. RSD	CPS	LDR	QC Flag
B	10	45	No Gas	0.901	1.15	30695.33	5	
B	11	45	No Gas	0.892	0.39	148486.19	5	
Se	82	72	No Gas	0.005	42.25	1073.38	5	
Be	9	45	He	0.000	NaN	0.00	5	
Na	23	45	He	786.959	1.19	21631883.84	90	>LDR
Mg	24	45	He	213.020	0.40	2676660.90	90	
Al	27	45	He	0.018	74.06	113.33	90	
K	39	45	He	76.337	0.34	589249.77	90	
Ca	43	45	He	651.166	1.38	17801.14	90	>LDR
Ti	47	45	He	-0.002	N/A	0.00	5	
V	51	45	He	0.005	7.36	1250.07	5	
Cr	52	45	He	0.001	14.20	996.72	5	
Mn	55	72	He	0.106	3.51	11154.45	5	
Fe	56	72	He	-0.003	N/A	4000.61	90	
Co	59	72	He	0.001	4.13	783.37	5	
Ni	60	72	He	0.001	15.26	303.34	5	
Cu	63	72	He	0.001	6.26	763.37	5	
Zn	66	72	He	-0.005	N/A	196.67	5	
As	75	72	He	0.003	7.72	121.78	5	
Se	78	72	He	0.004	83.81	9.00	5	
Sr	88	72	He	11.048	0.77	1206865.06	5	
Mo	95	72	He	0.323	0.63	76255.24	5	
Ag	107	103	He	0.000	42.72	50.00	1	
Cd	111	103	He	0.000	76.58	6.67	5	
Sn	118	103	He	0.000	57.81	70.00	2	
Sb	121	103	He	0.001	18.43	253.34	1	
Ba	137	103	He	0.052	4.12	3467.16	2	
Tl	205	175	He	0.000	15.19	96.67	5	
Pb	208	175	He	0.003	0.43	8577.94	5	
U	238	175	He	0.013	1.07	33901.63	5	

QC ISTD Table

Sample Report

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc (No He)	45	No Gas	1871316.07	0.45	1916000.44	97.67	60	120	
Ge (No He)	72	No Gas	497297.53	0.83	518337.463333333	95.94	60	120	
Sc	45	He	19665.48	2.02	20542.3	95.73	60	120	
Ge	72	He	21393.78	2.37	21932.34	97.54	60	120	
Rh	103	He	840845.30	1.38	910360.35	92.36	60	120	
Lu	175	He	426292.52	1.29	456033.236666667	93.48	60	120	

Sample Report

Sample Name	L734810-02 WG756357
File Name	046SMPL.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\112814ICPMS8.b
Acq Time	2014-11-28 14:44:45
Sample Type	Sample
Total Dilution	5.5556
Comment	---
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fial	Fail
ISTD QC Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD	Tune Mode	Conc.	Conc. RSD	CPS	LDR	QC Flag
B	10	45	No Gas	0.247	3.16	8282.31	5	
B	11	45	No Gas	0.249	1.34	40862.90	5	
Se	82	72	No Gas	0.017	12.44	1506.76	5	
Be	9	45	He	0.000	173.21	0.33	5	
Na	23	45	He	1491.844	1.05	40161914.40	90	>LDR
Mg	24	45	He	392.467	1.35	4829878.68	90	
Al	27	45	He	0.194	6.58	623.36	90	
K	39	45	He	9.875	2.23	79320.58	90	
Ca	43	45	He	1038.425	1.32	27802.28	90	>LDR
Ti	47	45	He	0.005	129.13	30.00	5	
V	51	45	He	0.002	18.05	430.01	5	
Cr	52	45	He	0.002	25.04	1296.75	5	
Mn	55	72	He	0.363	2.71	37478.89	5	
Fe	56	72	He	0.196	1.40	49461.52	90	
Co	59	72	He	0.003	8.51	2216.88	5	
Ni	60	72	He	0.005	16.73	1040.05	5	
Cu	63	72	He	0.002	9.09	1216.74	5	
Zn	66	72	He	0.007	19.84	856.71	5	
As	75	72	He	0.000	47.57	18.67	5	
Se	78	72	He	0.010	56.74	15.67	5	
Sr	88	72	He	18.653	4.04	2005571.74	5	
Mo	95	72	He	0.022	1.38	5154.37	5	
Ag	107	103	He	0.000	16.01	83.33	1	
Cd	111	103	He	0.000	32.39	18.67	5	
Sn	118	103	He	0.000	64.16	83.33	2	
Sb	121	103	He	0.000	86.94	83.33	1	
Ba	137	103	He	0.076	1.70	5017.68	2	
Tl	205	175	He	0.000	15.67	313.34	5	
Pb	208	175	He	0.000	29.77	983.36	5	
U	238	175	He	0.005	2.35	13977.88	5	

QC ISTD Table

Sample Report

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc (No He)	45	No Gas	1833773.67	1.31	1916000.44	95.71	60	120	
Ge (No He)	72	No Gas	485466.28	0.54	518337.463333333	93.66	60	120	
Sc	45	He	19262.74	1.41	20542.3	93.77	60	120	
Ge	72	He	21067.73	2.19	21932.34	96.06	60	120	
Rh	103	He	830124.55	0.59	910360.35	91.19	60	120	
Lu	175	He	431819.44	0.11	456033.236666667	94.69	60	120	

Sample Report

Sample Name	L734810-04 WG756357
File Name	047SMPL.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\112814ICPMS8.b
Acq Time	2014-11-28 14:46:17
Sample Type	Sample
Total Dilution	5.5556
Comment	---
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fial	Fail
ISTD QC Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD	Tune Mode	Conc.	Conc. RSD	CPS	LDR	QC Flag
B	10	45	No Gas	0.257	2.74	8577.14	5	
B	11	45	No Gas	0.258	0.09	42059.52	5	
Se	82	72	No Gas	0.021	3.51	1671.22	5	
Be	9	45	He	0.000	173.21	0.33	5	
Na	23	45	He	1851.402	1.52	50468630.92	90	>LDR
Mg	24	45	He	507.397	0.52	6323050.32	90	>LDR
Al	27	45	He	0.274	14.84	863.38	90	
K	39	45	He	8.029	0.69	66323.69	90	
Ca	43	45	He	1042.056	0.48	28252.47	90	>LDR
Ti	47	45	He	0.005	129.59	30.00	5	
V	51	45	He	0.005	10.37	1156.73	5	
Cr	52	45	He	0.002	10.22	1330.09	5	
Mn	55	72	He	0.136	5.19	13836.87	5	
Fe	56	72	He	0.327	4.93	78253.36	90	
Co	59	72	He	0.001	5.55	1000.05	5	
Ni	60	72	He	0.002	16.30	576.69	5	
Cu	63	72	He	0.001	13.17	983.38	5	
Zn	66	72	He	0.001	115.51	540.02	5	
As	75	72	He	0.001	45.57	42.67	5	
Se	78	72	He	0.015	35.84	20.67	5	
Sr	88	72	He	19.845	1.50	2098084.92	5	
Mo	95	72	He	0.017	5.16	3793.91	5	
Ag	107	103	He	0.000	40.74	83.33	1	
Cd	111	103	He	0.000	8.56	13.33	5	
Sn	118	103	He	0.000	34.08	76.67	2	
Sb	121	103	He	0.000	47.05	106.67	1	
Ba	137	103	He	0.062	7.02	4000.65	2	
Tl	205	175	He	0.000	13.83	396.68	5	
Pb	208	175	He	0.001	7.34	1490.06	5	
U	238	175	He	0.006	1.69	14444.99	5	

QC ISTD Table

Sample Report

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc (No He)	45	No Gas	1820622.84	0.74	1916000.44	95.02	60	120	
Ge (No He)	72	No Gas	484608.39	0.65	518337.463333333	93.49	60	120	
Sc	45	He	19504.16	0.11	20542.3	94.95	60	120	
Ge	72	He	20703.89	0.80	21932.34	94.4	60	120	
Rh	103	He	815352.72	0.53	910360.35	89.56	60	120	
Lu	175	He	425776.26	1.10	456033.236666667	93.37	60	120	

Sample Report

Sample Name	L734810-06 WG756357
File Name	048SMPL.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\112814ICPMS8.b
Acq Time	2014-11-28 14:47:47
Sample Type	Sample
Total Dilution	5.5556
Comment	---
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fial	Fail
ISTD QC Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD	Tune Mode	Conc.	Conc. RSD	CPS	LDR	QC Flag
B	10	45	No Gas	0.483	2.37	16056.62	5	
B	11	45	No Gas	0.487	0.52	79075.44	5	
Se	82	72	No Gas	0.016	11.91	1476.75	5	
Be	9	45	He	0.001	86.60	1.33	5	
Na	23	45	He	1698.370	0.80	46010525.98	90	>LDR
Mg	24	45	He	489.261	1.95	6058572.41	90	
Al	27	45	He	0.803	1.48	2403.56	90	
K	39	45	He	9.872	1.27	79800.11	90	
Ca	43	45	He	866.423	1.26	23345.21	90	>LDR
Ti	47	45	He	0.008	73.43	43.33	5	
V	51	45	He	0.006	9.81	1440.10	5	
Cr	52	45	He	0.004	10.83	1923.49	5	
Mn	55	72	He	0.278	1.71	28144.38	5	
Fe	56	72	He	1.084	2.35	247918.23	90	
Co	59	72	He	0.003	4.17	1740.14	5	
Ni	60	72	He	0.004	10.25	936.72	5	
Cu	63	72	He	0.002	15.52	1570.11	5	
Zn	66	72	He	0.003	6.71	660.03	5	
As	75	72	He	0.002	22.48	64.45	5	
Se	78	72	He	0.012	39.14	17.33	5	
Sr	88	72	He	13.884	2.05	1462311.18	5	
Mo	95	72	He	0.015	4.11	3457.15	5	
Ag	107	103	He	0.000	8.15	203.34	1	
Cd	111	103	He	0.000	37.67	14.00	5	
Sn	118	103	He	0.000	93.99	70.00	2	
Sb	121	103	He	0.001	59.79	140.00	1	
Ba	137	103	He	0.061	1.50	3947.32	2	
Tl	205	175	He	0.000	18.28	326.68	5	
Pb	208	175	He	0.001	1.69	3753.62	5	
U	238	175	He	0.008	1.71	20740.19	5	

QC ISTD Table

Sample Report

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc (No He)	45	No Gas	1822639.56	0.54	1916000.44	95.13	60	120	
Ge (No He)	72	No Gas	485539.38	0.67	518337.463333333	93.67	60	120	
Sc	45	He	19383.99	1.20	20542.3	94.36	60	120	
Ge	72	He	20629.27	1.97	21932.34	94.06	60	120	
Rh	103	He	820702.30	0.31	910360.35	90.15	60	120	
Lu	175	He	428619.99	0.82	456033.236666667	93.99	60	120	

Sample Report

Sample Name	L734810-08 WG756357
File Name	049SMPL.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\112814ICPMS8.b
Acq Time	2014-11-28 14:49:18
Sample Type	Sample
Total Dilution	5.5556
Comment	---
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fial	Fail
ISTD QC Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD	Tune Mode	Conc.	Conc. RSD	CPS	LDR	QC Flag
B	10	45	No Gas	0.446	2.67	14822.00	5	
B	11	45	No Gas	0.446	2.61	72294.17	5	
Se	82	72	No Gas	0.018	0.21	1538.98	5	
Be	9	45	He	0.000	NaN	0.00	5	
Na	23	45	He	1665.703	1.41	45189787.66	90	>LDR
Mg	24	45	He	365.736	0.61	4536258.37	90	
Al	27	45	He	0.232	6.52	736.70	90	
K	39	45	He	10.052	2.30	81274.42	90	
Ca	43	45	He	821.454	1.57	22166.37	90	>LDR
Ti	47	45	He	0.003	83.10	23.33	5	
V	51	45	He	0.002	19.93	603.36	5	
Cr	52	45	He	0.005	4.98	2346.89	5	
Mn	55	72	He	0.319	2.23	32520.12	5	
Fe	56	72	He	0.301	1.17	72554.69	90	
Co	59	72	He	0.003	7.88	1853.49	5	
Ni	60	72	He	0.005	21.10	1103.39	5	
Cu	63	72	He	0.002	9.49	1490.11	5	
Zn	66	72	He	0.000	672.84	486.68	5	
As	75	72	He	0.001	17.86	29.33	5	
Se	78	72	He	0.012	42.76	17.00	5	
Sr	88	72	He	14.134	1.08	1501606.23	5	
Mo	95	72	He	0.012	6.84	2750.32	5	
Ag	107	103	He	0.000	68.07	60.00	1	
Cd	111	103	He	0.000	12.43	18.67	5	
Sn	118	103	He	0.000	91.58	93.33	2	
Sb	121	103	He	0.000	144.70	73.33	1	
Ba	137	103	He	0.056	5.49	3650.55	2	
Tl	205	175	He	0.000	6.95	263.34	5	
Pb	208	175	He	0.000	8.73	1256.72	5	
U	238	175	He	0.012	0.59	32608.16	5	

QC ISTD Table

Sample Report

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc (No He)	45	No Gas	1820427.27	2.33	1916000.44	95.01	60	120	
Ge (No He)	72	No Gas	483899.64	0.84	518337.463333333	93.36	60	120	
Sc	45	He	19412.94	1.33	20542.3	94.5	60	120	
Ge	72	He	20806.21	1.03	21932.34	94.87	60	120	
Rh	103	He	823756.63	0.07	910360.35	90.49	60	120	
Lu	175	He	430760.54	0.56	456033.236666667	94.46	60	120	

Sample Report

Sample Name	L735181-03 WG756357
File Name	050SMPL.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\112814ICPMS8.b
Acq Time	2014-11-28 14:50:51
Sample Type	Sample
Total Dilution	5.5556
Comment	---
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fial	Fail
ISTD QC Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD	Tune Mode	Conc.	Conc. RSD	CPS	LDR	QC Flag
B	10	45	No Gas	0.342	1.02	11270.27	5	
B	11	45	No Gas	0.345	2.62	55521.14	5	
Se	82	72	No Gas	0.008	24.91	1168.94	5	
Be	9	45	He	0.000	173.21	0.67	5	
Na	23	45	He	1515.780	1.12	40065061.07	90	>LDR
Mg	24	45	He	334.663	1.12	4043795.25	90	
Al	27	45	He	-0.002	N/A	53.33	90	
K	39	45	He	17.568	1.38	134462.43	90	
Ca	43	45	He	762.532	1.92	20046.69	90	>LDR
Ti	47	45	He	-0.001	N/A	3.33	5	
V	51	45	He	0.028	4.64	6304.82	5	
Cr	52	45	He	0.001	57.83	1103.40	5	
Mn	55	72	He	0.853	2.52	84197.00	5	
Fe	56	72	He	-0.005	N/A	3324.47	90	
Co	59	72	He	0.003	10.13	1726.80	5	
Ni	60	72	He	0.009	2.36	1816.82	5	
Cu	63	72	He	0.002	12.98	1023.39	5	
Zn	66	72	He	-0.003	N/A	300.01	5	
As	75	72	He	0.005	5.25	176.00	5	
Se	78	72	He	0.003	115.20	8.00	5	
Sr	88	72	He	13.248	2.25	1363289.36	5	
Mo	95	72	He	0.036	3.38	7892.33	5	
Ag	107	103	He	0.000	47.88	30.00	1	
Cd	111	103	He	0.000	43.44	5.33	5	
Sn	118	103	He	0.000	129.97	56.67	2	
Sb	121	103	He	0.000	69.55	83.33	1	
Ba	137	103	He	0.060	1.08	3873.94	2	
Tl	205	175	He	0.000	7.51	436.68	5	
Pb	208	175	He	0.000	215.70	310.01	5	
U	238	175	He	0.040	1.18	104125.08	5	

QC ISTD Table

Sample Report

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc (No He)	45	No Gas	1804051.64	2.14	1916000.44	94.16	60	120	
Ge (No He)	72	No Gas	483520.43	1.01	518337.463333333	93.28	60	120	
Sc	45	He	18912.27	0.92	20542.3	92.06	60	120	
Ge	72	He	20158.67	2.55	21932.34	91.91	60	120	
Rh	103	He	820558.53	0.42	910360.35	90.14	60	120	
Lu	175	He	425544.20	0.85	456033.236666667	93.31	60	120	

Sample Report

Sample Name	L735181-04 WG756357
File Name	051SMPL.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\112814ICPMS8.b
Acq Time	2014-11-28 14:52:38
Sample Type	Sample
Total Dilution	5.5556
Comment	---
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fial	Fail
ISTD QC Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD	Tune Mode	Conc.	Conc. RSD	CPS	LDR	QC Flag
B	10	45	No Gas	0.543	2.13	17161.17	5	
B	11	45	No Gas	0.544	1.67	84051.77	5	
Se	82	72	No Gas	0.008	9.76	1121.16	5	
Be	9	45	He	0.000	NaN	0.00	5	
Na	23	45	He	4563.030	2.65	119946714.88	90	>LDR
Mg	24	45	He	949.682	3.14	11412135.66	90	>LDR
Al	27	45	He	0.037	20.27	163.33	90	
K	39	45	He	27.014	2.10	202862.61	90	
Ca	43	45	He	1046.319	2.98	27356.44	90	>LDR
Ti	47	45	He	0.000	1228.15	10.00	5	
V	51	45	He	0.028	4.85	6451.56	5	
Cr	52	45	He	0.001	40.05	1143.40	5	
Mn	55	72	He	0.766	0.75	75442.19	5	
Fe	56	72	He	0.055	4.68	16406.34	90	
Co	59	72	He	0.004	6.64	2396.90	5	
Ni	60	72	He	0.006	4.03	1256.75	5	
Cu	63	72	He	0.002	8.11	1356.76	5	
Zn	66	72	He	-0.002	N/A	380.01	5	
As	75	72	He	0.019	4.08	639.13	5	
Se	78	72	He	0.004	149.85	8.67	5	
Sr	88	72	He	20.864	0.28	2143004.71	5	
Mo	95	72	He	0.025	6.11	5531.19	5	
Ag	107	103	He	0.000	31.28	106.67	1	
Cd	111	103	He	0.000	24.62	14.00	5	
Sn	118	103	He	0.000	78.32	70.00	2	
Sb	121	103	He	0.000	32.47	130.00	1	
Ba	137	103	He	0.080	8.56	4977.68	2	
Tl	205	175	He	0.000	24.15	430.02	5	
Pb	208	175	He	0.000	10.27	710.02	5	
U	238	175	He	0.035	1.35	89184.05	5	

QC ISTD Table

Sample Report

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc (No He)	45	No Gas	1733820.60	0.66	1916000.44	90.49	60	120	
Ge (No He)	72	No Gas	462815.07	0.69	518337.463333333	89.29	60	120	
Sc	45	He	18819.97	3.09	20542.3	91.62	60	120	
Ge	72	He	20113.02	0.73	21932.34	91.7	60	120	
Rh	103	He	784549.78	0.25	910360.35	86.18	60	120	
Lu	175	He	411626.78	0.37	456033.236666667	90.26	60	120	

Continuing Calibration Verification (CCV) Report

Sample Name	CCV 14K05175
File Name	052_CCV.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\112814ICPMS8.b
Acq Time	2014-11-28 14:54:11
Sample Type	CCV
Total Dilution	1.0000
Comment	---
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fial	Pass
ISTD QC Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD	Tune Mode	Conc.	Conc. RSD	CPS	ExpValue	% Rec	%QC Low	%QC High	QC Flag
B	10	45	No Gas	0.099	1.29	19893.86	0.9	10.98	10	10	
B	11	45	No Gas	0.098	0.67	96429.79	0.9	10.89	10	10	
Se	82	72	No Gas	0.100	0.74	24565.67	0.9	11.09	10	10	
Be	9	45	He	0.109	2.86	1516.75	0.9	12.11	10	10	
Na	23	45	He	10.853	1.50	1723397.89	0.9	1205.88	1000	1000	
Mg	24	45	He	10.530	0.29	760465.98	0.9	1170	1000	1000	
Al	27	45	He	1.019	1.38	17410.55	0.9	113.26	100	100	
K	39	45	He	10.072	0.95	448317.60	0.9	1119.12	1000	1000	
Ca	43	45	He	10.288	1.94	1625.43	0.9	1143.12	1000	1000	
Ti	47	45	He	0.098	6.79	2416.91	0.9	10.84	10	10	
V	51	45	He	0.104	1.31	140789.92	0.9	11.51	10	10	
Cr	52	45	He	0.104	0.87	191113.57	0.9	11.59	10	10	
Mn	55	72	He	0.102	0.70	60743.82	0.9	11.28	10	10	
Fe	56	72	He	1.021	0.58	1362142.06	0.9	113.46	100	100	
Co	59	72	He	0.104	1.35	412173.79	0.9	11.6	10	10	
Ni	60	72	He	0.104	2.20	121689.16	0.9	11.54	10	10	
Cu	63	72	He	0.105	0.73	358937.25	0.9	11.63	10	10	
Zn	66	72	He	0.104	1.95	33268.76	0.9	11.53	10	10	
As	75	72	He	0.102	1.99	20443.42	0.9	11.35	10	10	
Se	78	72	He	0.099	4.98	608.68	0.9	10.98	10	10	
Sr	88	72	He	0.098	3.75	61319.03	0.9	10.91	10	10	
Mo	95	72	He	0.104	1.41	139405.99	0.9	11.51	10	10	
Ag	107	103	He	0.103	0.41	574599.98	0.9	11.49	10	10	
Cd	111	103	He	0.100	0.91	53435.44	0.9	11.06	10	10	
Sn	118	103	He	0.098	1.58	97084.32	0.9	10.84	10	10	
Sb	121	103	He	0.098	0.66	119537.70	0.9	10.87	10	10	
Ba	137	103	He	0.098	0.75	39226.22	0.9	10.84	10	10	
Tl	205	175	He	0.100	1.03	1175629.57	0.9	11.11	10	10	
Pb	208	175	He	0.105	0.54	1511345.60	0.9	11.62	10	10	
U	238	175	He	0.101	1.51	1568562.95	0.9	11.2	10	10	

QC ISTD Table

Continuing Calibration Verification (CCV) Report

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc (No He)	45	No Gas	1988083.51	1.82	1916000.44	103.76	60	120	
Ge (No He)	72	No Gas	528724.23	0.23	518337.463333333	102	60	120	
Sc	45	He	20343.07	0.74	20542.3	99.03	60	120	
Ge	72	He	21977.97	1.14	21932.34	100.21	60	120	
Rh	103	He	917458.42	0.68	910360.35	100.78	60	120	
Lu	175	He	458505.52	1.32	456033.236666667	100.54	60	120	

Continuing Calibration Blank (CCB) Report

Sample Name	CCB 14K05174
File Name	053_CCB.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\112814ICPMS8.b
Acq Time	2014-11-28 14:55:42
Sample Type	CCB
Total Dilution	1.0000
Comment	---
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fial	Pass
ISTD QC Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD	Tune Mode	Conc.	Conc. RSD	CPS	Limit	QC Flag
B	10	45	No Gas	0.006	3.92	1277.39	0.015	
B	11	45	No Gas	0.006	4.85	6017.22	0.015	
Se	82	72	No Gas	0.000	30.32	997.82	0.00075	
Be	9	45	He	0.000	NaN	0.00	0.00075	
Na	23	45	He	0.147	0.71	31627.35	0.75	
Mg	24	45	He	0.011	15.64	880.04	0.75	
Al	27	45	He	-0.002	N/A	30.00	0.0375	
K	39	45	He	-0.009	N/A	5077.64	0.75	
Ca	43	45	He	0.016	65.99	11.67	0.75	
Ti	47	45	He	0.000	N/A	6.67	0.0075	
V	51	45	He	0.000	2313.90	26.67	0.0015	
Cr	52	45	He	0.000	N/A	770.03	0.00075	
Mn	55	72	He	0.000	67.31	86.67	0.0015	
Fe	56	72	He	0.000	N/A	4424.08	0.0375	
Co	59	72	He	0.000	57.37	106.67	0.00075	
Ni	60	72	He	0.002	9.74	2533.61	0.00075	CCB Main CR1 Failed
Cu	63	72	He	0.000	59.06	346.68	0.0015	
Zn	66	72	He	0.000	111.76	523.35	0.0075	
As	75	72	He	0.000	127.24	5.33	0.00075	
Se	78	72	He	0.000	N/A	4.00	0.00075	
Sr	88	72	He	0.000	23.24	226.67	0.0075	
Mo	95	72	He	0.000	79.24	43.33	0.0015	
Ag	107	103	He	0.000	47.01	290.01	0.000375	
Cd	111	103	He	0.000	13.22	14.00	0.000375	
Sn	118	103	He	0.000	23.07	80.00	0.00075	
Sb	121	103	He	0.000	8.25	290.01	0.00075	
Ba	137	103	He	0.000	119.09	33.33	0.0015	
Tl	205	175	He	0.000	9.41	273.34	0.00075	
Pb	208	175	He	0.000	18.12	896.70	0.00075	
U	238	175	He	0.000	12.65	360.01	0.0075	

QC ISTD Table

Continuing Calibration Blank (CCB) Report

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc (No He)	45	No Gas	1904811.53	0.80	1916000.44	99.42	60	120	
Ge (No He)	72	No Gas	518802.72	0.61	518337.463333333	100.09	60	120	
Sc	45	He	19692.22	0.79	20542.3	95.86	60	120	
Ge	72	He	21275.77	0.97	21932.34	97.01	60	120	
Rh	103	He	922608.16	1.11	910360.35	101.35	60	120	
Lu	175	He	464386.07	0.93	456033.236666667	101.83	60	120	

Sample Report

Sample Name	L735181-06 WG756357
File Name	054SMPL.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\112814ICPMS8.b
Acq Time	2014-11-28 14:57:16
Sample Type	Sample
Total Dilution	5.5556
Comment	---
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fial	Fail
ISTD QC Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD	Tune Mode	Conc.	Conc. RSD	CPS	LDR	QC Flag
B	10	45	No Gas	0.480	1.46	15948.49	5	
B	11	45	No Gas	0.480	3.26	77874.57	5	
Se	82	72	No Gas	0.008	25.83	1185.61	5	
Be	9	45	He	0.000	86.62	0.67	5	
Na	23	45	He	1348.416	0.84	35716770.30	90	>LDR
Mg	24	45	He	351.634	0.50	4258069.73	90	
Al	27	45	He	0.173	10.19	553.35	90	
K	39	45	He	14.524	2.26	112287.63	90	
Ca	43	45	He	790.702	1.08	20830.78	90	>LDR
Ti	47	45	He	0.000	1661.70	10.00	5	
V	51	45	He	0.081	3.79	18558.80	5	
Cr	52	45	He	0.001	16.00	1150.07	5	
Mn	55	72	He	0.226	1.60	22758.18	5	
Fe	56	72	He	0.227	2.13	55081.98	90	
Co	59	72	He	0.002	10.87	1066.72	5	
Ni	60	72	He	0.006	15.29	1300.08	5	
Cu	63	72	He	0.006	2.69	3673.86	5	
Zn	66	72	He	0.001	52.32	543.35	5	
As	75	72	He	0.014	3.16	488.01	5	
Se	78	72	He	0.003	137.72	8.33	5	
Sr	88	72	He	13.931	1.02	1457853.73	5	
Mo	95	72	He	0.054	1.34	12132.08	5	
Ag	107	103	He	0.000	19.28	340.01	1	
Cd	111	103	He	0.000	82.88	11.33	5	
Sn	118	103	He	0.000	42.96	106.67	2	
Sb	121	103	He	0.001	15.26	183.34	1	
Ba	137	103	He	0.055	3.49	3627.21	2	
Tl	205	175	He	0.000	8.59	290.01	5	
Pb	208	175	He	0.000	7.10	1420.06	5	
U	238	175	He	0.081	1.13	218158.55	5	

QC ISTD Table

Sample Report

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc (No He)	45	No Gas	1822973.36	2.67	1916000.44	95.14	60	120	
Ge (No He)	72	No Gas	488778.01	0.96	518337.463333333	94.3	60	120	
Sc	45	He	18952.33	1.72	20542.3	92.26	60	120	
Ge	72	He	20493.52	1.32	21932.34	93.44	60	120	
Rh	103	He	826013.45	0.89	910360.35	90.73	60	120	
Lu	175	He	440422.67	1.49	456033.236666667	96.58	60	120	

Sample Report

Sample Name	L735181-09 WG756357
File Name	055SMPL.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\112814ICPMS8.b
Acq Time	2014-11-28 15:04:34
Sample Type	Sample
Total Dilution	5.5556
Comment	---
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fial	Fail
ISTD QC Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD	Tune Mode	Conc.	Conc. RSD	CPS	LDR	QC Flag
B	10	45	No Gas	0.231	1.15	7778.71	5	
B	11	45	No Gas	0.228	0.74	37551.56	5	
Se	82	72	No Gas	0.003	33.95	984.48	5	
Be	9	45	He	0.000	173.21	0.33	5	
Na	23	45	He	108.248	1.71	2767440.69	90	
Mg	24	45	He	180.792	2.29	2106954.14	90	
Al	27	45	He	0.006	167.83	73.33	90	
K	39	45	He	22.269	1.12	163025.27	90	
Ca	43	45	He	887.679	0.93	22506.91	90	>LDR
Ti	47	45	He	0.003	157.36	20.00	5	
V	51	45	He	0.011	14.76	2416.91	5	
Cr	52	45	He	0.001	106.56	916.71	5	
Mn	55	72	He	0.850	2.21	83563.42	5	
Fe	56	72	He	0.003	42.90	5000.96	90	
Co	59	72	He	0.004	7.23	2857.01	5	
Ni	60	72	He	0.007	18.52	1463.44	5	
Cu	63	72	He	0.002	5.49	1096.73	5	
Zn	66	72	He	-0.002	N/A	353.35	5	
As	75	72	He	0.041	4.52	1351.18	5	
Se	78	72	He	-0.001	N/A	3.67	5	
Sr	88	72	He	13.919	1.73	1426801.02	5	
Mo	95	72	He	0.040	1.72	8809.55	5	
Ag	107	103	He	0.000	11.10	143.33	1	
Cd	111	103	He	0.000	30.65	30.00	5	
Sn	118	103	He	0.000	57.12	110.00	2	
Sb	121	103	He	0.001	4.21	176.67	1	
Ba	137	103	He	0.114	3.99	7538.89	2	
Tl	205	175	He	0.001	8.49	1356.76	5	
Pb	208	175	He	0.000	13.77	920.04	5	
U	238	175	He	0.051	1.45	134391.29	5	

QC ISTD Table

Sample Report

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc (No He)	45	No Gas	1838418.36	0.27	1916000.44	95.95	60	120	
Ge (No He)	72	No Gas	492723.76	0.51	518337.463333333	95.06	60	120	
Sc	45	He	18239.17	0.68	20542.3	88.79	60	120	
Ge	72	He	20075.18	1.01	21932.34	91.53	60	120	
Rh	103	He	834862.38	0.36	910360.35	91.71	60	120	
Lu	175	He	435313.00	0.25	456033.236666667	95.46	60	120	

Sample Report

Sample Name	L735318-06 WG756357
File Name	056SMPL.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\112814ICPMS8.b
Acq Time	2014-11-28 15:06:06
Sample Type	Sample
Total Dilution	5.5556
Comment	---
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fial	Fail
ISTD QC Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD	Tune Mode	Conc.	Conc. RSD	CPS	LDR	QC Flag
B	10	45	No Gas	0.502	0.89	16744.68	5	
B	11	45	No Gas	0.490	0.71	79860.92	5	
Se	82	72	No Gas	0.009	12.03	1218.95	5	
Be	9	45	He	0.000	99.90	1.00	5	
Na	23	45	He	66.922	0.99	1698065.34	90	
Mg	24	45	He	189.986	0.71	2193307.15	90	
Al	27	45	He	0.003	449.95	63.33	90	
K	39	45	He	19.958	1.04	145257.12	90	
Ca	43	45	He	682.329	0.48	17140.67	90	>LDR
Ti	47	45	He	-0.001	N/A	3.33	5	
V	51	45	He	0.035	5.77	7698.83	5	
Cr	52	45	He	0.001	28.23	1000.05	5	
Mn	55	72	He	0.313	1.76	30836.40	5	
Fe	56	72	He	0.003	46.23	5011.09	90	
Co	59	72	He	0.002	19.17	1036.72	5	
Ni	60	72	He	0.008	5.12	1706.79	5	
Cu	63	72	He	0.002	5.74	1080.07	5	
Zn	66	72	He	-0.002	N/A	336.68	5	
As	75	72	He	0.004	10.00	139.11	5	
Se	78	72	He	0.009	44.96	14.33	5	
Sr	88	72	He	10.701	2.34	1096555.25	5	
Mo	95	72	He	0.029	4.37	6524.94	5	
Ag	107	103	He	0.000	40.03	66.67	1	
Cd	111	103	He	0.000	22.23	5.33	5	
Sn	118	103	He	0.000	82.77	73.33	2	
Sb	121	103	He	0.001	24.49	173.34	1	
Ba	137	103	He	0.067	4.69	4494.15	2	
Tl	205	175	He	0.000	23.85	403.35	5	
Pb	208	175	He	0.000	61.51	436.67	5	
U	238	175	He	0.029	3.14	77827.21	5	

QC ISTD Table

Sample Report

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc (No He)	45	No Gas	1829395.91	0.91	1916000.44	95.48	60	120	
Ge (No He)	72	No Gas	496732.47	0.68	518337.463333333	95.83	60	120	
Sc	45	He	18068.99	1.31	20542.3	87.96	60	120	
Ge	72	He	20072.96	2.38	21932.34	91.52	60	120	
Rh	103	He	846873.42	0.69	910360.35	93.03	60	120	
Lu	175	He	441341.92	1.29	456033.236666667	96.78	60	120	

Sample Report

Sample Name	L735318-09 WG756357
File Name	057SMPL.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\112814ICPMS8.b
Acq Time	2014-11-28 15:07:37
Sample Type	Sample
Total Dilution	5.5556
Comment	---
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fial	Fail
ISTD QC Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD	Tune Mode	Conc.	Conc. RSD	CPS	LDR	QC Flag
B	10	45	No Gas	0.190	1.54	6358.03	5	
B	11	45	No Gas	0.186	1.76	30441.52	5	
Se	82	72	No Gas	0.007	29.02	1143.39	5	
Be	9	45	He	0.000	NaN	0.00	5	
Na	23	45	He	75.833	1.12	1888029.55	90	
Mg	24	45	He	77.446	1.25	877841.08	90	
Al	27	45	He	0.003	346.84	63.33	90	
K	39	45	He	4.952	1.51	39102.57	90	
Ca	43	45	He	654.394	0.41	16139.86	90	>LDR
Ti	47	45	He	-0.002	N/A	0.00	5	
V	51	45	He	0.022	5.94	4680.83	5	
Cr	52	45	He	0.001	24.51	1156.74	5	
Mn	55	72	He	0.098	3.58	9546.64	5	
Fe	56	72	He	0.004	50.39	5151.34	90	
Co	59	72	He	0.001	8.70	550.02	5	
Ni	60	72	He	0.002	11.83	496.68	5	
Cu	63	72	He	0.001	15.92	776.70	5	
Zn	66	72	He	-0.004	N/A	236.67	5	
As	75	72	He	0.002	4.72	73.78	5	
Se	78	72	He	0.008	80.46	12.67	5	
Sr	88	72	He	8.349	1.85	841703.69	5	
Mo	95	72	He	0.014	3.69	3033.71	5	
Ag	107	103	He	0.000	15.90	43.33	1	
Cd	111	103	He	0.000	86.95	4.00	5	
Sn	118	103	He	0.000	562.36	40.00	2	
Sb	121	103	He	0.000	97.64	123.34	1	
Ba	137	103	He	0.071	8.88	4680.88	2	
Tl	205	175	He	0.000	37.12	176.67	5	
Pb	208	175	He	0.000	86.08	316.68	5	
U	238	175	He	0.011	2.45	29771.42	5	

QC ISTD Table

Sample Report

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc (No He)	45	No Gas	1827971.38	0.72	1916000.44	95.41	60	120	
Ge (No He)	72	No Gas	496355.56	1.24	518337.463333333	95.76	60	120	
Sc	45	He	17739.71	0.94	20542.3	86.36	60	120	
Ge	72	He	19746.97	3.00	21932.34	90.04	60	120	
Rh	103	He	837336.63	0.76	910360.35	91.98	60	120	
Lu	175	He	430899.62	0.91	456033.236666667	94.49	60	120	

Continuing Calibration Verification (CCV) Report

Sample Name	CCV 14K05175
File Name	060_CCV.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\112814ICPMS8.b
Acq Time	2014-11-28 15:26:02
Sample Type	CCV
Total Dilution	1.0000
Comment	---
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fial	Fail
ISTD QC Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD	Tune Mode	Conc.	Conc. RSD	CPS	ExpValue	% Rec	%QC Low	%QC High	QC Flag
B	10	45	No Gas	0.102	1.82	19718.97	0.9	11.36	10	10	
B	11	45	No Gas	0.100	1.82	94461.26	0.9	11.14	10	10	
Se	82	72	No Gas	0.102	1.41	24727.03	0.9	11.32	10	10	
Be	9	45	He	0.113	0.41	1511.75	0.9	12.52	10	10	CCV Main CR1 Failed
Na	23	45	He	10.583	1.43	1620815.03	0.9	1175.89	1000	1000	
Mg	24	45	He	10.321	0.64	718783.14	0.9	1146.76	1000	1000	
Al	27	45	He	1.002	3.73	16499.45	0.9	111.32	100	100	
K	39	45	He	9.783	1.21	420063.33	0.9	1086.96	1000	1000	
Ca	43	45	He	9.913	1.01	1510.75	0.9	1101.45	1000	1000	
Ti	47	45	He	0.095	13.32	2263.55	0.9	10.54	10	10	
V	51	45	He	0.103	0.67	134476.96	0.9	11.4	10	10	
Cr	52	45	He	0.104	0.66	183335.10	0.9	11.53	10	10	
Mn	55	72	He	0.101	3.74	58103.03	0.9	11.22	10	10	
Fe	56	72	He	1.018	0.90	1306599.82	0.9	113.09	100	100	
Co	59	72	He	0.104	1.39	395180.57	0.9	11.56	10	10	
Ni	60	72	He	0.106	1.05	119174.82	0.9	11.75	10	10	
Cu	63	72	He	0.106	1.02	348287.62	0.9	11.73	10	10	
Zn	66	72	He	0.104	1.96	32109.45	0.9	11.56	10	10	
As	75	72	He	0.102	2.04	19744.67	0.9	11.39	10	10	
Se	78	72	He	0.099	5.49	585.68	0.9	10.98	10	10	
Sr	88	72	He	0.099	2.44	59585.04	0.9	11.01	10	10	
Mo	95	72	He	0.106	0.70	136641.83	0.9	11.73	10	10	
Ag	107	103	He	0.104	0.54	569942.28	0.9	11.57	10	10	
Cd	111	103	He	0.100	0.46	52929.55	0.9	11.12	10	10	
Sn	118	103	He	0.100	1.22	97809.21	0.9	11.09	10	10	
Sb	121	103	He	0.099	1.03	119604.80	0.9	11.04	10	10	
Ba	137	103	He	0.101	1.96	40172.36	0.9	11.27	10	10	
Tl	205	175	He	0.103	0.89	1260611.07	0.9	11.39	10	10	
Pb	208	175	He	0.107	0.69	1614974.22	0.9	11.87	10	10	
U	238	175	He	0.107	0.56	1740233.72	0.9	11.88	10	10	

QC ISTD Table

Continuing Calibration Verification (CCV) Report

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc (No He)	45	No Gas	1904633.30	1.62	1916000.44	99.41	60	120	
Ge (No He)	72	No Gas	521663.31	0.82	518337.463333333	100.64	60	120	
Sc	45	He	19618.75	1.42	20542.3	95.5	60	120	
Ge	72	He	21150.04	1.07	21932.34	96.43	60	120	
Rh	103	He	903294.12	0.21	910360.35	99.22	60	120	
Lu	175	He	479479.43	0.95	456033.236666667	105.14	60	120	

Continuing Calibration Blank (CCB) Report

Sample Name	CCB 14K05174
File Name	061_CCB.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\112814ICPMS8.b
Acq Time	2014-11-28 15:27:33
Sample Type	CCB
Total Dilution	1.0000
Comment	---
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fial	Pass
ISTD QC Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD	Tune Mode	Conc.	Conc. RSD	CPS	Limit	QC Flag
B	10	45	No Gas	0.004	8.67	858.69	0.015	
B	11	45	No Gas	0.004	3.21	3910.52	0.015	
Se	82	72	No Gas	0.000	136.98	965.60	0.00075	
Be	9	45	He	0.000	99.45	1.00	0.00075	
Na	23	45	He	0.032	3.95	13526.35	0.75	
Mg	24	45	He	0.010	10.28	756.70	0.75	
Al	27	45	He	0.000	N/A	56.67	0.0375	
K	39	45	He	0.006	79.52	5537.83	0.75	
Ca	43	45	He	-0.011	N/A	7.33	0.75	
Ti	47	45	He	0.000	N/A	0.00	0.0075	
V	51	45	He	0.000	20.47	110.00	0.0015	
Cr	52	45	He	0.000	48.69	923.38	0.00075	
Mn	55	72	He	0.000	52.18	123.33	0.0015	
Fe	56	72	He	0.000	31.62	5104.32	0.0375	
Co	59	72	He	0.000	34.79	296.68	0.00075	
Ni	60	72	He	0.002	14.92	2076.86	0.00075	CCB Main CR1 Failed
Cu	63	72	He	0.000	13.84	613.36	0.0015	
Zn	66	72	He	0.000	N/A	426.68	0.0075	
As	75	72	He	0.000	4.94	18.22	0.00075	
Se	78	72	He	0.000	680.36	5.67	0.00075	
Sr	88	72	He	0.000	381.97	143.34	0.0075	
Mo	95	72	He	0.000	54.25	106.67	0.0015	
Ag	107	103	He	0.000	27.06	483.35	0.000375	
Cd	111	103	He	0.000	21.68	42.67	0.000375	
Sn	118	103	He	0.000	37.37	90.00	0.00075	
Sb	121	103	He	0.000	34.13	300.01	0.00075	
Ba	137	103	He	0.000	101.70	53.33	0.0015	
Tl	205	175	He	0.000	23.75	973.39	0.00075	
Pb	208	175	He	0.000	17.26	1916.77	0.00075	
U	238	175	He	0.000	15.31	1380.10	0.0075	

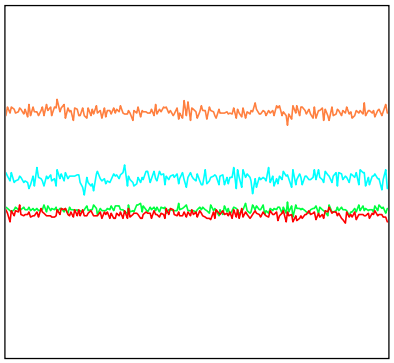
QC ISTD Table

Continuing Calibration Blank (CCB) Report

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc (No He)	45	No Gas	1867973.31	0.93	1916000.44	97.49	60	120	
Ge (No He)	72	No Gas	511211.72	0.50	518337.463333333	98.63	60	120	
Sc	45	He	19002.37	0.83	20542.3	92.5	60	120	
Ge	72	He	20857.40	1.06	21932.34	95.1	60	120	
Rh	103	He	909761.06	0.56	910360.35	99.93	60	120	
Lu	175	He	469543.61	1.91	456033.236666667	102.96	60	120	

Current Signal

[No Gas]



Mass	Range	Count	Avg. Count	RSD [%]
7	5000	2396	2547.5	2.92
59	50000	21284	21042.3	1.85
89	50000	34855	34987.0	1.71
205	50000	19314	20330.7	2.22
156/140	1	0.794 %	0.726 %	7.34
70/140	2	1.040 %	1.009 %	6.01
103	500	125	128.5	25.48

Integration Time [sec] 0.10

Plasma Parameters

RF Power	1550	W	Nebulizer Pump	0.30	rps
RF Matching	1.60	V	S/C Temp	2	℃
Smpl Depth	10.0	mm	Gas Switch	Dilution Gas	
Carrier Gas	0.75	L/min	Makeup/Dilution Gas	0.35	L/min
Option Gas	0.0	%			

Lenses Parameters

Extract 1	0.0	V	Cell Entrance	-30	V
Extract 2	-200.0	V	Cell Exit	-52	V
Omega Bias	-80	V	Deflect	15.4	V
Omega Lens	8.8	V	Plate Bias	-40	V

Cell Parameters

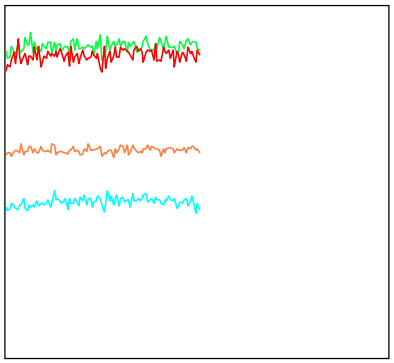
Use Gas	false		OctP Bias	-8.0	V
He Flow	5.0	mL/min	OctP RF	150	V
H2 Flow	0.0	mL/min	Energy Discrimination	5.0	V
3rd Gas Flow	0	%			

Meters

IF/BK Press	1.78E+2	Pa	Water RF/WC/IF	1.45	L/min
TMP Revolution	100.0	%	S/C Temp (L)	1.9	℃
Carrier Gas(BP)	3.20E+2	kPa			

Current Signal

[No Gas]



Mass	Range	Count	Avg. Count	RSD [%]
7	5000	2108	2212.0	2.91
59	20000	17560	17737.0	1.70
89	50000	29154	29479.8	1.44
205	20000	17251	17194.8	2.13
156/140	1	0.702 %	0.684 %	8.99
70/140	2	1.044 %	1.030 %	6.27
103	200	137	145.6	10.01

Integration Time [sec] 0.10

Plasma Parameters

RF Power	1550	W	Nebulizer Pump	0.10	rps
RF Matching	1.60	V	S/C Temp	2	℃
Smpl Depth	10.0	mm	Gas Switch	Dilution Gas	
Carrier Gas	0.75	L/min	Makeup/Dilution Gas	0.35	L/min
Option Gas	0.0	%			

Lenses Parameters

Extract 1	0.0	V	Cell Entrance	-30	V
Extract 2	-200.0	V	Cell Exit	-52	V
Omega Bias	-80	V	Deflect	15.4	V
Omega Lens	8.8	V	Plate Bias	-40	V

Cell Parameters

Use Gas	false		OctP Bias	-8.0	V
He Flow	5.0	mL/min	OctP RF	150	V
H2 Flow	0.0	mL/min	Energy Discrimination	5.0	V
3rd Gas Flow	0	%			

Meters

IF/BK Press	1.78E+2	Pa	Water RF/WC/IF	1.49	L/min
TMP Revolution	100.0	%	S/C Temp (L)	2.0	℃
Carrier Gas(BP)	3.20E+2	kPa			

Tune Report

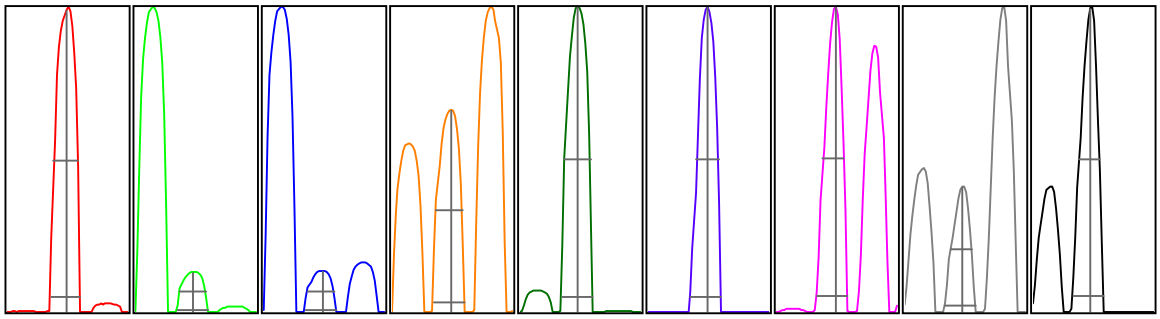
Batch Folder	C:\Agilent\ICPMH\1\DATA\112814ICPMS8B.b
Acq. Date-Time	2014-11-28 19:12
Report Comment	
Instrument Name	G8403A JP14080166

[No Gas]

Mass	RSD % (Actual)	RSD % (Required)	RSD % (Flag)
9	2.19	5.00	
24	0.94	5.00	
25	1.50	5.00	
26	1.04	5.00	
59	1.48	5.00	
115	1.12	5.00	
206	1.56	5.00	
207	1.26	5.00	
208	1.36	5.00	

Mass	Rep. 1 Count	Rep. 2 Count	Rep. 3 Count	Rep. 4 Count	Rep. 5 Count
9	5334	5595	5521	5325	5496
24	43413	43980	44177	43314	43303
25	5949	6020	6103	5936	5868
26	7070	7148	7249	7095	7079
59	103974	105968	105440	102018	104015
115	161179	164191	164662	161074	161126
206	31311	32147	32018	30963	31496
207	27013	27401	27276	26535	26895
208	65224	66166	66883	64733	65048

Integration Time [sec] 0.1



Mass	Peak Height	Axis (Actual)	Axis (Required)	Axis (Flag)	W-50 %	W-5 % (Actual)	W-5 % (Required)	W-5 % (Flag)
9	941.41	9.00	8.9 - 9.1		0.61	0.735	0.850	
24	7220.69	23.95	23.9 - 24.1		0.63	0.778	0.850	
25	980.69	25.00	24.9 - 25.1		0.64	0.786	0.850	
26	1183.69	26.00	25.9 - 26.1		0.63	0.785	0.850	
59	17879.38	58.95	58.9 - 59.1		0.61	0.779	0.850	
115	30924.23	115.00	114.9 - 115.1		0.54	0.755	0.850	
206	6304.25	206.00	205.9 - 206.1		0.52	0.751	0.850	
207	5492.14	206.95	206.9 - 207.1		0.52	0.752	0.850	
208	13324.88	207.95	207.9 - 208.1		0.51	0.766	0.850	

Tune Report

Integration Time [sec] 0.1 **Acquisition Time [sec]** 212.5 **Y Axis** Linear

Tune Parameters
Plasma Paramters

RF Power	1550 W	Nebulizer Pump	0.10 rps
RF Matching	1.60 V	S/C Temp	2 ℃
Smpl Depth	10.0 mm	Gas Switch	Dilution Gas
Carrier Gas	0.75 L/min	Makeup/Dilution Gas	0.35 L/min
Option Gas	0.0 %		

Lenses Parameters

Extract 1	0.0 V	Cell Entrance	-30 V
Extract 2	-200.0 V	Cell Exit	-52 V
Omega Bias	-80 V	Deflect	15.4 V
Omega Lens	8.8 V	Plate Bias	-40 V

Cell Parameters

Use Gas	false	OctP Bias	-8.0 V
He Flow	0.0 mL/min	OctP RF	150 V
H2 Flow	0.0 mL/min	Energy Discrimination	5.0 V
3rd Gas Flow	0 %		

Calibration Blank Report

Sample Name	CALBLK 14K05174
File Name	001CALB.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\112814ICPMS8B.b
Acq Time	2014-11-28 19:16:30
Sample Type	CalBlk
Total Dilution	1.0000
Comment	---
ISTD Ref FileName	001CALB.d
Sample QC Pass/Fial	Pass
ISTD QC Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD	Tune Mode	CPS	CPS RSD
B	11	45	No Gas	1076.04	2.25
Se	82	72	No Gas	990.04	1.47
Na	23	45	He	11968.35	4.30
Mg	24	45	He	383.34	17.76
Al	27	45	He	30.00	33.33
K	39	45	He	5367.75	4.25
Ca	43	45	He	9.67	11.95
Ti	47	45	He	3.33	173.21
V	51	45	He	16.67	124.90
Cr	52	45	He	753.37	22.46
Mn	55	72	He	80.00	57.28
Fe	56	72	He	5094.31	2.97
Co	59	72	He	186.67	21.65
Ni	60	72	He	43.33	53.29
Cu	63	72	He	280.01	17.86
Zn	66	72	He	786.70	5.87
As	75	72	He	2.22	91.62
Se	78	72	He	4.67	24.74
Sr	88	72	He	123.34	55.19
Mo	95	72	He	6.67	86.60
Ag	107	103	He	26.67	21.65
Cd	111	103	He	2.67	86.60
Sn	118	103	He	226.67	37.00
Sb	121	103	He	93.33	24.74
Ba	137	103	He	23.33	49.49
Tl	205	175	He	110.00	15.75
Pb	208	175	He	976.70	13.75
U	238	175	He	716.70	8.53

QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD
Sc (No He)	45	No Gas	1786932.63	0.63
Ge (No He)	72	No Gas	491075.80	0.41
Sc	45	He	19446.29	0.95

Calibration Blank Report

Name	Mass	Tune Mode	CPS	CPS RSD
Ge	72	He	21065.48	0.48
Rh	103	He	873163.84	0.89
Lu	175	He	442524.84	0.87

Calibration Standard Report

Sample Name	STD1 14K05175
File Name	002CALS.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\112814ICPMS8B.b
Acq Time	2014-11-28 19:18:14
Sample Type	CalStd
Total Dilution	1.0000
Comment	---
ISTD Ref FileName	001CALB.d
Sample QC Pass/Fial	Pass
ISTD QC Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD	Tune Mode	CPS	CPS RSD
B	11	45	No Gas	1912.79	2.20
Se	82	72	No Gas	1103.38	10.39
Be	9	45	He	12.33	33.76
Na	23	45	He	26443.90	5.47
Mg	24	45	He	7035.15	9.61
Al	27	45	He	220.01	19.81
K	39	45	He	9596.60	2.25
Ca	43	45	He	26.67	26.34
Ti	47	45	He	43.33	35.25
V	51	45	He	1316.76	15.96
Cr	52	45	He	2423.58	8.43
Mn	55	72	He	620.03	12.60
Fe	56	72	He	16399.61	11.40
Co	59	72	He	3880.60	10.80
Ni	60	72	He	1303.42	13.12
Cu	63	72	He	3740.56	6.97
Zn	66	72	He	780.04	3.39
As	75	72	He	198.67	4.40
Se	78	72	He	9.33	12.37
Sr	88	72	He	726.70	5.73
Mo	95	72	He	1376.76	12.63
Ag	107	103	He	5744.61	8.90
Cd	111	103	He	532.01	14.66
Sn	118	103	He	983.38	19.89
Sb	121	103	He	1263.42	11.09
Ba	137	103	He	396.68	10.19
Tl	205	175	He	12462.79	6.15
Pb	208	175	He	15827.43	8.75
U	238	175	He	15626.45	9.38

QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc (No He)	45	No Gas	1828520.96	0.77	1786932.63	102.33	60	120	
Ge (No He)	72	No Gas	498512.31	0.47	491075.8	101.51	60	120	

Calibration Standard Report

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc	45	He	19074.71	1.65	19446.29	98.09	60	120	
Ge	72	He	21613.03	1.34	21065.48	102.6	60	120	
Rh	103	He	891429.07	1.25	873163.84	102.09	60	120	
Lu	175	He	453805.90	1.18	442524.836666667	102.55	60	120	

Calibration Standard Report

Sample Name	STD2 14K05175
File Name	003CALS.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\112814ICPMS8B.b
Acq Time	2014-11-28 19:19:58
Sample Type	CalStd
Total Dilution	1.0000
Comment	---
ISTD Ref FileName	001CALB.d
Sample QC Pass/Fial	Pass
ISTD QC Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD	Tune Mode	CPS	CPS RSD
B	11	45	No Gas	2856.28	5.64
Se	82	72	No Gas	1481.20	6.21
Be	9	45	He	23.33	4.95
Na	23	45	He	41702.38	2.24
Mg	24	45	He	14006.97	10.01
Al	27	45	He	353.34	20.08
K	39	45	He	13653.25	6.90
Ca	43	45	He	32.67	24.93
Ti	47	45	He	53.33	28.64
V	51	45	He	2696.97	6.74
Cr	52	45	He	4377.39	5.81
Mn	55	72	He	1150.07	4.35
Fe	56	72	He	28765.68	8.62
Co	59	72	He	7969.03	10.00
Ni	60	72	He	2536.94	15.52
Cu	63	72	He	6941.79	6.00
Zn	66	72	He	800.04	6.62
As	75	72	He	432.45	15.11
Se	78	72	He	17.67	48.14
Sr	88	72	He	1233.41	9.33
Mo	95	72	He	2520.27	4.97
Ag	107	103	He	11541.55	3.85
Cd	111	103	He	1064.71	9.40
Sn	118	103	He	1833.49	6.28
Sb	121	103	He	2430.26	11.10
Ba	137	103	He	666.70	3.78
Tl	205	175	He	24189.29	3.32
Pb	208	175	He	30965.08	5.97
U	238	175	He	30707.31	11.27

QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc (No He)	45	No Gas	1839556.80	1.01	1786932.63	102.94	60	120	
Ge (No He)	72	No Gas	500986.50	0.53	491075.8	102.02	60	120	

Calibration Standard Report

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc	45	He	18906.73	4.57	19446.29	97.23	60	120	
Ge	72	He	20893.02	3.64	21065.48	99.18	60	120	
Rh	103	He	870737.33	3.00	873163.84	99.72	60	120	
Lu	175	He	445682.33	2.81	442524.836666667	100.71	60	120	

Calibration Standard Report

Sample Name	STD3 14K05175
File Name	004CALS.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\112814ICPMS8B.b
Acq Time	2014-11-28 19:21:57
Sample Type	CalStd
Total Dilution	1.0000
Comment	---
ISTD Ref FileName	001CALB.d
Sample QC Pass/Fial	Pass
ISTD QC Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD	Tune Mode	CPS	CPS RSD
B	11	45	No Gas	9398.31	6.36
Se	82	72	No Gas	3211.50	3.45
Be	9	45	He	121.00	2.86
Na	23	45	He	152605.65	7.43
Mg	24	45	He	64026.32	10.94
Al	27	45	He	1513.44	15.03
K	39	45	He	44962.89	5.30
Ca	43	45	He	133.00	3.45
Ti	47	45	He	170.00	10.19
V	51	45	He	11871.79	8.28
Cr	52	45	He	16753.30	9.33
Mn	55	72	He	5291.06	8.84
Fe	56	72	He	119542.18	12.97
Co	59	72	He	35096.46	9.42
Ni	60	72	He	10514.07	10.97
Cu	63	72	He	31341.28	10.03
Zn	66	72	He	3403.82	17.02
As	75	72	He	1776.56	13.20
Se	78	72	He	56.67	18.03
Sr	88	72	He	5544.52	9.36
Mo	95	72	He	12035.44	12.55
Ag	107	103	He	51973.73	7.83
Cd	111	103	He	4782.83	9.24
Sn	118	103	He	8923.02	13.85
Sb	121	103	He	10801.05	5.91
Ba	137	103	He	3607.22	9.86
Tl	205	175	He	112512.45	5.95
Pb	208	175	He	139992.66	9.82
U	238	175	He	142060.65	12.08

QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc (No He)	45	No Gas	1762027.47	3.02	1786932.63	98.61	60	120	
Ge (No He)	72	No Gas	485974.50	3.73	491075.8	98.96	60	120	

Calibration Standard Report

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc	45	He	18272.54	1.30	19446.29	93.96	60	120	
Ge	72	He	20127.49	0.96	21065.48	95.55	60	120	
Rh	103	He	845496.14	0.90	873163.84	96.83	60	120	
Lu	175	He	437034.21	1.20	442524.836666667	98.76	60	120	

Calibration Standard Report

Sample Name	STD4 14K05175
File Name	005CALS.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\112814ICPMS8B.b
Acq Time	2014-11-28 19:23:41
Sample Type	CalStd
Total Dilution	1.0000
Comment	---
ISTD Ref FileName	001CALB.d
Sample QC Pass/Fial	Pass
ISTD QC Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD	Tune Mode	CPS	CPS RSD
B	11	45	No Gas	46201.61	0.76
Se	82	72	No Gas	13131.64	1.28
Be	9	45	He	695.68	9.75
Na	23	45	He	787336.79	5.95
Mg	24	45	He	346267.44	8.48
Al	27	45	He	7642.10	6.32
K	39	45	He	219435.45	3.64
Ca	43	45	He	738.69	8.01
Ti	47	45	He	1106.73	12.34
V	51	45	He	65752.42	8.50
Cr	52	45	He	88034.24	9.25
Mn	55	72	He	28605.26	7.57
Fe	56	72	He	627887.80	10.14
Co	59	72	He	194068.66	8.12
Ni	60	72	He	58003.79	9.70
Cu	63	72	He	168995.97	7.89
Zn	66	72	He	15562.01	7.87
As	75	72	He	9813.60	8.22
Se	78	72	He	322.67	2.88
Sr	88	72	He	29247.31	8.60
Mo	95	72	He	66205.67	8.44
Ag	107	103	He	283894.18	4.90
Cd	111	103	He	25835.92	8.66
Sn	118	103	He	47779.45	9.18
Sb	121	103	He	59139.81	7.07
Ba	137	103	He	18382.65	7.90
Tl	205	175	He	612587.53	5.46
Pb	208	175	He	758275.66	7.68
U	238	175	He	780339.39	10.53

QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc (No He)	45	No Gas	1864856.90	0.52	1786932.63	104.36	60	120	
Ge (No He)	72	No Gas	509319.04	0.23	491075.8	103.71	60	120	

Calibration Standard Report

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc	45	He	19326.12	1.46	19446.29	99.38	60	120	
Ge	72	He	21379.28	0.23	21065.48	101.49	60	120	
Rh	103	He	901190.40	0.40	873163.84	103.21	60	120	
Lu	175	He	469119.85	0.96	442524.836666667	106.01	60	120	

Calibration Standard Report

Sample Name	STD5 14K05175
File Name	006CALS.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\112814ICPMS8B.b
Acq Time	2014-11-28 19:25:24
Sample Type	CalStd
Total Dilution	1.0000
Comment	---
ISTD Ref FileName	001CALB.d
Sample QC Pass/Fial	Pass
ISTD QC Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD	Tune Mode	CPS	CPS RSD
B	11	45	No Gas	90963.12	1.99
Se	82	72	No Gas	25177.79	0.44
Be	9	45	He	1340.73	8.84
Na	23	45	He	1614221.85	4.59
Mg	24	45	He	704149.01	8.62
Al	27	45	He	15885.50	9.50
K	39	45	He	438808.21	3.14
Ca	43	45	He	1560.42	9.05
Ti	47	45	He	2423.58	10.90
V	51	45	He	132721.77	9.32
Cr	52	45	He	178182.46	9.63
Mn	55	72	He	57310.60	9.09
Fe	56	72	He	1274672.14	9.25
Co	59	72	He	392981.57	8.24
Ni	60	72	He	117037.03	9.25
Cu	63	72	He	339583.96	8.75
Zn	66	72	He	31321.16	5.84
As	75	72	He	19895.60	7.34
Se	78	72	He	591.34	4.50
Sr	88	72	He	59739.72	7.37
Mo	95	72	He	135387.96	9.08
Ag	107	103	He	570422.72	4.96
Cd	111	103	He	52849.73	8.26
Sn	118	103	He	95941.42	9.26
Sb	121	103	He	120323.25	6.90
Ba	137	103	He	39059.66	9.04
Tl	205	175	He	1226496.96	3.09
Pb	208	175	He	1541567.83	7.38
U	238	175	He	1589186.02	10.13

QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc (No He)	45	No Gas	1864198.62	0.82	1786932.63	104.32	60	120	
Ge (No He)	72	No Gas	503299.00	1.57	491075.8	102.49	60	120	

Calibration Standard Report

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc	45	He	19643.22	1.04	19446.29	101.01	60	120	
Ge	72	He	21637.44	1.03	21065.48	102.72	60	120	
Rh	103	He	896863.81	1.19	873163.84	102.71	60	120	
Lu	175	He	465721.20	1.56	442524.836666667	105.24	60	120	

Calibration Standard Report

Sample Name	STD6 14K05175
File Name	007CALS.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\112814ICPMS8B.b
Acq Time	2014-11-28 19:27:05
Sample Type	CalStd
Total Dilution	1.0000
Comment	---
ISTD Ref FileName	001CALB.d
Sample QC Pass/Fial	Pass
ISTD QC Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD	Tune Mode	CPS	CPS RSD
B	11	45	No Gas	183011.52	1.23
Se	82	72	No Gas	49326.02	0.77
Be	9	45	He	2748.92	6.60
Na	23	45	He	3115151.00	3.28
Mg	24	45	He	1421606.59	5.95
Al	27	45	He	31744.60	7.79
K	39	45	He	877343.53	2.76
Ca	43	45	He	3056.66	6.32
Ti	47	45	He	4680.84	11.82
V	51	45	He	266352.56	5.90
Cr	52	45	He	358242.23	7.66
Mn	55	72	He	116890.08	6.39
Fe	56	72	He	2628112.09	6.27
Co	59	72	He	784681.29	6.29
Ni	60	72	He	233147.24	6.14
Cu	63	72	He	680701.08	6.13
Zn	66	72	He	61856.70	6.51
As	75	72	He	39988.92	5.29
Se	78	72	He	1255.06	6.83
Sr	88	72	He	122480.40	5.71
Mo	95	72	He	272128.61	6.05
Ag	107	103	He	1111502.66	7.65
Cd	111	103	He	105454.00	6.51
Sn	118	103	He	193337.58	7.58
Sb	121	103	He	239579.86	4.59
Ba	137	103	He	78749.34	5.94
Tl	205	175	He	2540940.95	1.88
Pb	208	175	He	3091124.99	4.98
U	238	175	He	3349893.39	7.82

QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc (No He)	45	No Gas	1850241.54	0.24	1786932.63	103.54	60	120	
Ge (No He)	72	No Gas	508135.39	0.54	491075.8	103.47	60	120	

Calibration Standard Report

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc	45	He	19625.43	0.38	19446.29	100.92	60	120	
Ge	72	He	21722.05	0.73	21065.48	103.12	60	120	
Rh	103	He	892077.46	0.61	873163.84	102.17	60	120	
Lu	175	He	466881.65	0.36	442524.836666667	105.5	60	120	

Initial Calibration Verification (ICV) Report

Sample Name	ICV 14K05178
File Name	008_ICV.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\112814ICPMS8B.b
Acq Time	2014-11-28 19:28:45
Sample Type	ICV
Total Dilution	1.0000
Comment	---
ISTD Ref FileName	001CALB.d
Sample QC Pass/Fial	Fail
ISTD QC Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD	Tune Mode	Conc.	Conc. RSD	CPS	ExpValue	% Rec	%QC Low	%QC High	QC Flag
B	10	45	No Gas	0.102	2.18	19852.48	0.9	11.38	10	10	
B	11	45	No Gas	0.101	2.12	94774.25	0.9	11.23	10	10	
Se	82	72	No Gas	0.100	3.25	25152.18	0.9	11.06	10	10	
Be	9	45	He	0.105	6.10	1401.07	0.9	11.65	10	10	
Na	23	45	He	10.529	2.57	1617296.90	0.9	1169.91	1000	1000	
Mg	24	45	He	10.534	2.60	729262.15	0.9	1170.45	1000	1000	
Al	27	45	He	1.116	6.65	17270.32	0.9	124.01	100	100	ICV Main CR1 Failed
K	39	45	He	10.206	2.12	439125.80	0.9	1134.02	1000	1000	
Ca	43	45	He	10.097	2.19	1514.08	0.9	1121.84	1000	1000	
Ti	47	45	He	0.111	5.98	2546.93	0.9	12.31	10	10	ICV Main CR1 Failed
V	51	45	He	0.106	2.31	137230.63	0.9	11.73	10	10	
Cr	52	45	He	0.108	3.37	188295.77	0.9	11.97	10	10	
Mn	55	72	He	0.105	2.03	60101.42	0.9	11.7	10	10	
Fe	56	72	He	1.037	1.04	1327146.98	0.9	115.23	100	100	
Co	59	72	He	0.106	1.00	409082.17	0.9	11.82	10	10	
Ni	60	72	He	0.106	1.39	120976.30	0.9	11.75	10	10	
Cu	63	72	He	0.106	2.87	354569.34	0.9	11.81	10	10	
Zn	66	72	He	0.107	4.22	32904.63	0.9	11.94	10	10	
As	75	72	He	0.104	1.69	20406.06	0.9	11.59	10	10	
Se	78	72	He	0.106	5.85	644.02	0.9	11.73	10	10	
Sr	88	72	He	0.105	1.40	62896.07	0.9	11.71	10	10	
Mo	95	72	He	0.105	2.73	140191.03	0.9	11.7	10	10	
Ag	107	103	He	0.104	0.42	579322.60	0.9	11.57	10	10	
Cd	111	103	He	0.104	0.64	54610.01	0.9	11.57	10	10	
Sn	118	103	He	0.105	1.22	100844.41	0.9	11.66	10	10	
Sb	121	103	He	0.103	0.99	122702.97	0.9	11.43	10	10	
Ba	137	103	He	0.103	1.27	40349.66	0.9	11.49	10	10	
Tl	205	175	He	0.100	0.94	1252245.19	0.9	11.16	10	10	
Pb	208	175	He	0.105	0.82	1608462.45	0.9	11.7	10	10	
U	238	175	He	0.103	1.02	1679706.74	0.9	11.4	10	10	

QC ISTD Table

Initial Calibration Verification (ICV) Report

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc (No He)	45	No Gas	1894525.81	2.17	1786932.63	106.02	60	120	
Ge (No He)	72	No Gas	509172.22	0.61	491075.8	103.69	60	120	
Sc	45	He	19171.54	4.06	19446.29	98.59	60	120	
Ge	72	He	21270.22	1.85	21065.48	100.97	60	120	
Rh	103	He	889138.37	2.85	873163.84	101.83	60	120	
Lu	175	He	462007.34	2.44	442524.836666667	104.4	60	120	

Initial Calibration Blank (ICB) Report

Sample Name	ICB 14K05174
File Name	009_ICB.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\112814ICPMS8B.b
Acq Time	2014-11-28 19:30:24
Sample Type	ICB
Total Dilution	1.0000
Comment	---
ISTD Ref FileName	001CALB.d
Sample QC Pass/Fial	Pass
ISTD QC Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD	Tune Mode	Conc.	Conc. RSD	CPS	Limit	QC Flag
B	10	45	No Gas	0.005	5.27	1080.04	0.015	
B	11	45	No Gas	0.005	2.01	5290.95	0.015	
Se	82	72	No Gas	0.000	227.75	1038.93	0.00075	
Be	9	45	He	0.000	6149.37	0.67	0.00075	
Na	23	45	He	0.000	N/A	11764.88	0.75	
Mg	24	45	He	-0.001	N/A	316.68	0.75	
Al	27	45	He	0.000	165.50	36.67	0.0375	
K	39	45	He	-0.003	N/A	5151.02	0.75	
Ca	43	45	He	-0.015	N/A	7.33	0.75	
Ti	47	45	He	0.000	N/A	0.00	0.0075	
V	51	45	He	0.000	33.33	70.00	0.0015	
Cr	52	45	He	0.000	41.03	870.05	0.00075	
Mn	55	72	He	0.000	N/A	46.67	0.0015	
Fe	56	72	He	0.000	40.50	5647.89	0.0375	
Co	59	72	He	0.000	N/A	126.67	0.00075	
Ni	60	72	He	0.000	17.13	123.33	0.00075	
Cu	63	72	He	0.000	N/A	263.34	0.0015	
Zn	66	72	He	0.000	N/A	700.03	0.0075	
As	75	72	He	0.000	35.41	10.22	0.00075	
Se	78	72	He	0.000	N/A	4.33	0.00075	
Sr	88	72	He	0.000	317.33	133.33	0.0075	
Mo	95	72	He	0.000	146.35	26.67	0.0015	
Ag	107	103	He	0.000	5.10	1413.43	0.000375	
Cd	111	103	He	0.000	31.08	31.33	0.000375	
Sn	118	103	He	0.000	128.83	296.68	0.00075	
Sb	121	103	He	0.000	5.14	576.69	0.00075	
Ba	137	103	He	0.000	286.06	30.00	0.0015	
Tl	205	175	He	0.000	31.38	593.36	0.00075	
Pb	208	175	He	0.000	20.04	1436.72	0.00075	
U	238	175	He	0.000	N/A	600.03	0.0075	

QC ISTD Table

Initial Calibration Blank (ICB) Report

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc (No He)	45	No Gas	1819109.97	0.68	1786932.63	101.8	60	120	
Ge (No He)	72	No Gas	501148.66	0.73	491075.8	102.05	60	120	
Sc	45	He	19197.08	0.73	19446.29	98.72	60	120	
Ge	72	He	21430.47	1.96	21065.48	101.73	60	120	
Rh	103	He	899071.94	0.46	873163.84	102.97	60	120	
Lu	175	He	460403.52	1.41	442524.836666667	104.04	60	120	

Low Level Initial Calibration Verification(LLICV) Report

Sample Name	LLICV 14K05179
File Name	010LICV.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\112814ICPMS8B.b
Acq Time	2014-11-28 19:32:05
Sample Type	LLICV
Total Dilution	1.0000
Comment	---
ISTD Ref FileName	001CALB.d
Sample QC Pass/Fial	Fail
ISTD QC Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD	Tune Mode	Conc.	Conc. RSD	CPS	ExpValue	% Rec	%QC Low	%QC High	QC Flag
Be	9	45	He	0.001	10.23	12.33	0.001	86.74	70	130	
V	51	45	He	0.002	4.84	2927.01	0.002	111.21	70	130	
Cr	52	45	He	0.001	3.33	2603.61	0.001	105.68	70	130	
Mn	55	72	He	0.002	7.84	1270.08	0.002	104.97	70	130	
Co	59	72	He	0.001	7.07	4310.73	0.001	107.82	70	130	
Ni	60	72	He	0.001	5.22	1566.79	0.001	133.9	70	130	LLICV Main CR1 Failed
Cu	63	72	He	0.001	10.03	4137.34	0.001	116.17	70	130	
Zn	66	72	He	0.009	7.94	3467.15	0.01	90.08	70	130	
As	75	72	He	0.001	6.13	212.89	0.001	108.14	70	130	
Se	78	72	He	0.001	62.44	12.00	0.001	121.04	70	130	
Mo	95	72	He	0.002	6.47	2746.98	0.002	103.41	70	130	
Ag	107	103	He	0.001	5.34	3187.09	0.0005	112.18	70	130	
Cd	111	103	He	0.000	9.54	263.33	0.0005	98.19	70	130	
Sn	118	103	He	0.001	10.13	1073.39	0.001	86.49	70	130	
Sb	121	103	He	0.001	8.08	1620.13	0.001	126.27	70	130	
Ba	137	103	He	0.002	15.40	793.37	0.002	97.45	70	130	
Tl	205	175	He	0.001	0.90	12639.67	0.001	100.37	70	130	
Pb	208	175	He	0.001	3.38	16614.54	0.001	102.03	70	130	

QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc (No He)	45	No Gas	1864907.58	0.93	1786932.63	104.36	60	120	
Ge (No He)	72	No Gas	507871.14	0.28	491075.8	103.42	60	120	
Sc	45	He	19303.89	1.95	19446.29	99.27	60	120	
Ge	72	He	21167.87	1.14	21065.48	100.49	60	120	
Rh	103	He	900217.12	0.90	873163.84	103.1	60	120	
Lu	175	He	462327.62	0.71	442524.836666667	104.47	60	120	

Interference Check Solution A (ICS-A) Report

Sample Name	ICSA 14K05180
File Name	011ICSA.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\112814ICPMS8B.b
Acq Time	2014-11-28 19:33:52
Sample Type	ICSA
Total Dilution	1.0000
Comment	---
ISTD Ref FileName	001CALB.d
Sample QC Pass/Fial	Pass
ISTD QC Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD	Tune Mode	Conc.	Conc. RSD	CPS	ExpValue	%QC Low	%QC High	QC Flag
Na	23	45	He	98.623	2.24	14679258.11	0.8	10000	10000	
Mg	24	45	He	99.044	1.88	6684534.48	0.8	10000	10000	
Al	27	45	He	106.389	3.90	1604365.86	0.8	10000	10000	
K	39	45	He	97.866	1.46	4062091.19	0.8	10000	10000	
Ca	43	45	He	90.938	1.28	13223.29	0.8	10000	10000	
Ti	47	45	He	2.073	1.37	46360.41	0.8	200	200	
Fe	56	72	He	99.574	2.99	123806224.82	0.8	10000	10000	
Mo	95	72	He	2.087	2.64	2709093.19	0.8	200	200	

QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc (No He)	45	No Gas	1794498.51	0.73	1786932.63	100.42	60	120	
Ge (No He)	72	No Gas	497190.48	0.43	491075.8	101.25	60	120	
Sc	45	He	18688.65	0.82	19446.29	96.1	60	120	
Ge	72	He	20750.59	1.33	21065.48	98.51	60	120	
Rh	103	He	830103.81	0.42	873163.84	95.07	60	120	
Lu	175	He	451298.00	0.78	442524.836666667	101.98	60	120	

Interference Check Solution AB (ICS-AB) Report

Sample Name	ICSAB 14K05181
File Name	012ICSB.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\112814ICPMS8B.b
Acq Time	2014-11-28 19:36:25
Sample Type	ICSB
Total Dilution	1.0000
Comment	---
ISTD Ref FileName	001CALB.d
Sample QC Pass/Fial	Pass
ISTD QC Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD	Tune Mode	Conc.	Conc. RSD	CPS	ExpValue	%QC Low	%QC High	QC Flag

QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc (No He)	45	No Gas	1681687.89	0.59	1786932.63	94.11	60	120	
Ge (No He)	72	No Gas	467982.71	0.94	491075.8	95.3	60	120	
Sc	45	He	18512.87	2.83	19446.29	95.2	60	120	
Ge	72	He	20453.49	1.98	21065.48	97.09	60	120	
Rh	103	He	814512.05	0.87	873163.84	93.28	60	120	
Lu	175	He	444287.12	0.41	442524.836666667	100.4	60	120	

Low Level Initial Calibration Verification(LLICV) Report

Sample Name	LLICV 14K05179
File Name	015LICV.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\112814ICPMS8B.b
Acq Time	2014-11-28 19:40:58
Sample Type	LLICV
Total Dilution	1.0000
Comment	---
ISTD Ref FileName	001CALB.d
Sample QC Pass/Fial	Fail
ISTD QC Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD	Tune Mode	Conc.	Conc. RSD	CPS	ExpValue	% Rec	%QC Low	%QC High	QC Flag
Be	9	45	He	0.001	77.10	9.00	0.001	68.21	70	130	LLICV Main CR1 Failed
V	51	45	He	0.002	9.09	2456.92	0.002	102.55	70	130	
Cr	52	45	He	0.001	7.03	2496.93	0.001	113.93	70	130	
Mn	55	72	He	0.002	10.71	1136.74	0.002	101.96	70	130	
Co	59	72	He	0.001	4.60	3843.91	0.001	104.16	70	130	
Ni	60	72	He	0.001	8.52	1156.73	0.001	106.57	70	130	
Cu	63	72	He	0.001	5.78	3570.51	0.001	108.46	70	130	
Zn	66	72	He	0.009	5.80	3127.07	0.01	87.66	70	130	
As	75	72	He	0.001	5.04	193.78	0.001	106.87	70	130	
Se	78	72	He	0.001	111.48	9.67	0.001	95.14	70	130	
Mo	95	72	He	0.002	6.83	2523.61	0.002	103.14	70	130	
Ag	107	103	He	0.001	10.21	2636.97	0.0005	100.6	70	130	
Cd	111	103	He	0.001	1.45	250.00	0.0005	101.18	70	130	
Sn	118	103	He	0.001	8.02	970.05	0.001	84.37	70	130	
Sb	121	103	He	0.001	10.95	1300.09	0.001	108.94	70	130	
Ba	137	103	He	0.002	4.02	756.70	0.002	101.02	70	130	
Tl	205	175	He	0.001	2.73	11425.16	0.001	100.23	70	130	
Pb	208	175	He	0.001	1.16	15473.77	0.001	105.2	70	130	

QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc (No He)	45	No Gas	1686601.49	1.42	1786932.63	94.39	60	120	
Ge (No He)	72	No Gas	463449.18	1.34	491075.8	94.37	60	120	
Sc	45	He	17547.23	1.25	19446.29	90.23	60	120	
Ge	72	He	19485.50	2.48	21065.48	92.5	60	120	
Rh	103	He	829353.29	0.67	873163.84	94.98	60	120	
Lu	175	He	418457.20	1.49	442524.836666667	94.56	60	120	

Continuing Calibration Verification (CCV) Report

Sample Name	CCV 14K05175
File Name	032_CCV.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\112814ICPMS8B.b
Acq Time	2014-11-28 20:07:36
Sample Type	CCV
Total Dilution	1.0000
Comment	---
ISTD Ref FileName	001CALB.d
Sample QC Pass/Fial	Pass
ISTD QC Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD	Tune Mode	Conc.	Conc. RSD	CPS	ExpValue	% Rec	%QC Low	%QC High	QC Flag
B	10	45	No Gas	0.098	1.72	20340.47	0.9	10.85	10	10	
B	11	45	No Gas	0.098	1.60	98421.86	0.9	10.86	10	10	
Se	82	72	No Gas	0.100	0.61	27246.04	0.9	11.06	10	10	
Be	9	45	He	0.106	1.84	1527.75	0.9	11.77	10	10	
Na	23	45	He	10.479	1.18	1736537.63	0.9	1164.37	1000	1000	
Mg	24	45	He	10.518	1.45	785495.98	0.9	1168.64	1000	1000	
Al	27	45	He	1.092	3.11	18241.46	0.9	121.28	100	100	
K	39	45	He	10.294	2.03	477631.46	0.9	1143.76	1000	1000	
Ca	43	45	He	10.378	3.56	1677.76	0.9	1153.08	1000	1000	
Ti	47	45	He	0.108	5.02	2680.29	0.9	12.02	10	10	
V	51	45	He	0.107	3.04	149481.29	0.9	11.85	10	10	
Cr	52	45	He	0.107	2.43	202282.72	0.9	11.92	10	10	
Mn	55	72	He	0.105	1.34	64875.00	0.9	11.7	10	10	
Fe	56	72	He	1.068	1.80	1477176.85	0.9	118.7	100	100	
Co	59	72	He	0.106	0.91	440903.96	0.9	11.79	10	10	
Ni	60	72	He	0.105	1.79	129411.75	0.9	11.64	10	10	
Cu	63	72	He	0.106	1.07	383405.46	0.9	11.83	10	10	
Zn	66	72	He	0.104	1.86	34555.08	0.9	11.61	10	10	
As	75	72	He	0.105	1.24	22203.82	0.9	11.67	10	10	
Se	78	72	He	0.102	5.07	671.35	0.9	11.32	10	10	
Sr	88	72	He	0.104	3.55	67232.23	0.9	11.59	10	10	
Mo	95	72	He	0.106	1.25	151829.66	0.9	11.74	10	10	
Ag	107	103	He	0.104	0.43	623910.25	0.9	11.53	10	10	
Cd	111	103	He	0.104	0.40	58889.79	0.9	11.54	10	10	
Sn	118	103	He	0.106	0.58	109814.27	0.9	11.75	10	10	
Sb	121	103	He	0.104	0.99	134132.47	0.9	11.56	10	10	
Ba	137	103	He	0.106	0.86	44602.40	0.9	11.75	10	10	
Tl	205	175	He	0.100	0.84	1357377.01	0.9	11.07	10	10	
Pb	208	175	He	0.104	1.03	1737774.29	0.9	11.56	10	10	
U	238	175	He	0.104	2.73	1865727.58	0.9	11.59	10	10	

QC ISTD Table

Continuing Calibration Verification (CCV) Report

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc (No He)	45	No Gas	2033497.94	0.75	1786932.63	113.8	60	120	
Ge (No He)	72	No Gas	551206.45	0.89	491075.8	112.24	60	120	
Sc	45	He	20671.32	1.42	19446.29	106.3	60	120	
Ge	72	He	22977.29	2.86	21065.48	109.08	60	120	
Rh	103	He	960955.09	0.56	873163.84	110.05	60	120	
Lu	175	He	504895.28	1.16	442524.836666667	114.09	60	120	

Continuing Calibration Blank (CCB) Report

Sample Name	CCB 14K05174
File Name	033_CCB.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\112814ICPMS8B.b
Acq Time	2014-11-28 20:09:07
Sample Type	CCB
Total Dilution	1.0000
Comment	---
ISTD Ref FileName	001CALB.d
Sample QC Pass/Fial	Pass
ISTD QC Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD	Tune Mode	Conc.	Conc. RSD	CPS	Limit	QC Flag
B	10	45	No Gas	0.003	4.99	830.69	0.015	
B	11	45	No Gas	0.003	5.25	4029.89	0.015	
Se	82	72	No Gas	0.000	N/A	1033.38	0.00075	
Be	9	45	He	0.000	131.40	2.00	0.00075	
Na	23	45	He	-0.008	N/A	11077.65	0.75	
Mg	24	45	He	0.000	N/A	363.34	0.75	
Al	27	45	He	0.001	327.76	40.00	0.0375	
K	39	45	He	-0.009	N/A	5117.65	0.75	
Ca	43	45	He	-0.004	N/A	9.33	0.75	
Ti	47	45	He	0.000	N/A	0.00	0.0075	
V	51	45	He	0.000	23.67	60.00	0.0015	
Cr	52	45	He	0.000	19.72	890.04	0.00075	
Mn	55	72	He	0.000	N/A	76.67	0.0015	
Fe	56	72	He	0.000	40.11	5857.94	0.0375	
Co	59	72	He	0.000	N/A	170.00	0.00075	
Ni	60	72	He	0.000	79.76	100.00	0.00075	
Cu	63	72	He	0.000	N/A	283.34	0.0015	
Zn	66	72	He	0.000	185.03	846.71	0.0075	
As	75	72	He	0.000	80.08	7.11	0.00075	
Se	78	72	He	0.000	N/A	3.00	0.00075	
Sr	88	72	He	0.000	118.50	156.67	0.0075	
Mo	95	72	He	0.000	49.21	53.33	0.0015	
Ag	107	103	He	0.000	12.20	356.68	0.000375	
Cd	111	103	He	0.000	18.08	32.00	0.000375	
Sn	118	103	He	0.000	146.20	253.34	0.00075	
Sb	121	103	He	0.000	21.83	403.35	0.00075	
Ba	137	103	He	0.000	196.61	30.00	0.0015	
Tl	205	175	He	0.000	19.36	516.69	0.00075	
Pb	208	175	He	0.000	64.59	1270.06	0.00075	
U	238	175	He	0.000	N/A	623.36	0.0075	

QC ISTD Table

Continuing Calibration Blank (CCB) Report

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc (No He)	45	No Gas	1923382.73	0.81	1786932.63	107.64	60	120	
Ge (No He)	72	No Gas	524458.41	0.59	491075.8	106.8	60	120	
Sc	45	He	20041.53	0.28	19446.29	103.06	60	120	
Ge	72	He	21754.31	0.56	21065.48	103.27	60	120	
Rh	103	He	935154.65	0.14	873163.84	107.1	60	120	
Lu	175	He	482796.75	1.10	442524.836666667	109.1	60	120	

Sample Report

Sample Name	BLANK WG756357
File Name	034SMPL.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\112814ICPMS8B.b
Acq Time	2014-11-28 20:10:55
Sample Type	Sample
Total Dilution	1.1111
Comment	---
ISTD Ref FileName	001CALB.d
Sample QC Pass/Fial	Pass
ISTD QC Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD	Tune Mode	Conc.	Conc. RSD	CPS	LDR	QC Flag
B	10	45	No Gas	0.003	4.70	639.35	5	
B	11	45	No Gas	0.003	6.54	2959.64	5	
Se	82	72	No Gas	0.000	N/A	916.70	5	
Be	9	45	He	0.000	1345.01	0.67	5	
Na	23	45	He	-0.007	N/A	10377.11	90	
Mg	24	45	He	-0.003	N/A	173.34	90	
Al	27	45	He	0.002	54.66	56.67	90	
K	39	45	He	0.016	26.34	5654.51	90	
Ca	43	45	He	0.002	2021.43	9.33	90	
Ti	47	45	He	0.000	N/A	0.00	5	
V	51	45	He	0.000	N/A	6.67	5	
Cr	52	45	He	0.000	25.99	1220.08	5	
Mn	55	72	He	0.000	N/A	43.33	5	
Fe	56	72	He	-0.002	N/A	3127.07	90	
Co	59	72	He	0.000	N/A	50.00	5	
Ni	60	72	He	0.000	35.89	136.67	5	
Cu	63	72	He	0.000	31.30	486.68	5	
Zn	66	72	He	-0.002	N/A	253.34	5	
As	75	72	He	0.000	152.94	4.89	5	
Se	78	72	He	0.000	405.51	6.00	5	
Sr	88	72	He	0.000	N/A	113.34	5	
Mo	95	72	He	0.000	10.90	10.00	5	
Ag	107	103	He	0.000	43.57	73.33	1	
Cd	111	103	He	0.000	129.05	7.33	5	
Sn	118	103	He	0.000	N/A	153.34	2	
Sb	121	103	He	0.000	86.02	143.33	1	
Ba	137	103	He	0.000	N/A	20.00	2	
Tl	205	175	He	0.000	49.60	156.67	5	
Pb	208	175	He	0.000	N/A	700.02	5	
U	238	175	He	0.000	N/A	103.33	5	

QC ISTD Table

Sample Report

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc (No He)	45	No Gas	1675340.75	1.37	1786932.63	93.76	60	120	
Ge (No He)	72	No Gas	461595.06	1.01	491075.8	94	60	120	
Sc	45	He	18362.70	1.95	19446.29	94.43	60	120	
Ge	72	He	20330.00	3.89	21065.48	96.51	60	120	
Rh	103	He	856290.98	0.50	873163.84	98.07	60	120	
Lu	175	He	445470.58	0.58	442524.836666667	100.67	60	120	

Sample Report

Sample Name	LCS WG756357
File Name	035SMPL.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\112814ICPMS8B.b
Acq Time	2014-11-28 20:12:29
Sample Type	Sample
Total Dilution	1.1111
Comment	---
ISTD Ref FileName	001CALB.d
Sample QC Pass/Fial	Pass
ISTD QC Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD	Tune Mode	Conc.	Conc. RSD	CPS	LDR	QC Flag
B	10	45	No Gas	0.055	1.15	9112.80	5	
B	11	45	No Gas	0.056	1.00	44525.22	5	
Se	82	72	No Gas	0.049	2.34	10997.62	5	
Be	9	45	He	0.053	4.16	625.01	5	
Na	23	45	He	0.534	1.78	83826.69	90	
Mg	24	45	He	0.519	2.24	32218.70	90	
Al	27	45	He	0.061	2.28	870.04	90	
K	39	45	He	0.524	3.86	24971.60	90	
Ca	43	45	He	0.950	4.88	135.00	90	
Ti	47	45	He	0.056	3.21	1143.40	5	
V	51	45	He	0.055	2.27	63936.94	5	
Cr	52	45	He	0.054	1.97	84407.87	5	
Mn	55	72	He	0.055	2.94	27523.06	5	
Fe	56	72	He	0.054	0.96	65467.74	90	
Co	59	72	He	0.055	1.23	188239.55	5	
Ni	60	72	He	0.054	1.10	54871.08	5	
Cu	63	72	He	0.054	1.59	160423.34	5	
Zn	66	72	He	0.054	1.93	14881.17	5	
As	75	72	He	0.049	3.51	8505.20	5	
Se	78	72	He	0.050	5.32	270.67	5	
Sr	88	72	He	0.054	0.85	28452.27	5	
Mo	95	72	He	0.053	1.59	62551.91	5	
Ag	107	103	He	0.052	0.71	256328.85	1	
Cd	111	103	He	0.053	0.83	24371.84	5	
Sn	118	103	He	0.055	0.69	46243.70	2	
Sb	121	103	He	0.054	1.13	57120.81	1	
Ba	137	103	He	0.055	1.60	18963.33	2	
Tl	205	175	He	0.051	1.15	569895.25	5	
Pb	208	175	He	0.053	1.13	729430.40	5	
U	238	175	He	0.000	N/A	30.00	5	

QC ISTD Table

Sample Report

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc (No He)	45	No Gas	1764755.86	1.52	1786932.63	98.76	60	120	
Ge (No He)	72	No Gas	477853.23	1.00	491075.8	97.31	60	120	
Sc	45	He	18894.49	1.42	19446.29	97.16	60	120	
Ge	72	He	20855.17	1.07	21065.48	99	60	120	
Rh	103	He	870124.86	0.76	873163.84	99.65	60	120	
Lu	175	He	461528.29	1.40	442524.836666667	104.29	60	120	

Sample Report

Sample Name	LCSD WG756357
File Name	036SMPL.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\112814ICPMS8B.b
Acq Time	2014-11-28 20:14:01
Sample Type	Sample
Total Dilution	1.1111
Comment	---
ISTD Ref FileName	001CALB.d
Sample QC Pass/Fial	Pass
ISTD QC Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD	Tune Mode	Conc.	Conc. RSD	CPS	LDR	QC Flag
B	10	45	No Gas	0.057	2.70	9364.94	5	
B	11	45	No Gas	0.057	1.01	45159.82	5	
Se	82	72	No Gas	0.049	1.08	10957.59	5	
Be	9	45	He	0.050	9.07	607.01	5	
Na	23	45	He	0.521	2.76	83702.76	90	
Mg	24	45	He	0.522	3.91	33037.13	90	
Al	27	45	He	0.056	5.98	820.04	90	
K	39	45	He	0.524	2.23	25442.46	90	
Ca	43	45	He	1.013	12.95	146.00	90	
Ti	47	45	He	0.056	8.87	1170.07	5	
V	51	45	He	0.055	1.92	64161.37	5	
Cr	52	45	He	0.052	0.77	82315.64	5	
Mn	55	72	He	0.054	3.86	27099.01	5	
Fe	56	72	He	0.054	1.53	64965.44	90	
Co	59	72	He	0.056	2.72	187559.74	5	
Ni	60	72	He	0.054	1.62	54315.43	5	
Cu	63	72	He	0.055	1.36	159861.20	5	
Zn	66	72	He	0.052	5.01	14340.73	5	
As	75	72	He	0.049	2.45	8382.01	5	
Se	78	72	He	0.051	5.07	276.00	5	
Sr	88	72	He	0.055	1.89	28535.68	5	
Mo	95	72	He	0.054	0.81	62367.54	5	
Ag	107	103	He	0.052	1.37	253360.81	1	
Cd	111	103	He	0.053	1.10	24416.59	5	
Sn	118	103	He	0.054	2.69	45190.41	2	
Sb	121	103	He	0.055	0.32	57301.53	1	
Ba	137	103	He	0.055	2.64	18676.26	2	
Tl	205	175	He	0.051	0.71	565857.98	5	
Pb	208	175	He	0.054	1.13	735683.10	5	
U	238	175	He	0.000	N/A	20.00	5	

QC ISTD Table

Sample Report

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc (No He)	45	No Gas	1758290.49	0.77	1786932.63	98.4	60	120	
Ge (No He)	72	No Gas	476424.94	0.10	491075.8	97.02	60	120	
Sc	45	He	19262.76	2.22	19446.29	99.06	60	120	
Ge	72	He	20642.65	1.50	21065.48	97.99	60	120	
Rh	103	He	865613.50	0.43	873163.84	99.14	60	120	
Lu	175	He	460670.49	1.31	442524.836666667	104.1	60	120	

Sample Report

Sample Name	L734231-15 WG756357
File Name	037SMPL.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\112814ICPMS8B.b
Acq Time	2014-11-28 20:15:32
Sample Type	Sample
Total Dilution	5.5556
Comment	---
ISTD Ref FileName	001CALB.d
Sample QC Pass/Fial	Fail
ISTD QC Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD	Tune Mode	Conc.	Conc. RSD	CPS	LDR	QC Flag
B	10	45	No Gas	1.516	1.61	53410.70	5	
B	11	45	No Gas	1.522	0.80	259358.58	5	
Se	82	72	No Gas	0.000	N/A	1046.71	5	
Be	9	45	He	0.000	N/A	0.33	5	
Na	23	45	He	1707.122	3.38	49360745.93	90	>LDR
Mg	24	45	He	548.489	2.86	7195524.27	90	>LDR
Al	27	45	He	0.185	7.73	573.35	90	
K	39	45	He	100.915	1.70	818875.46	90	
Ca	43	45	He	706.165	1.13	19960.23	90	>LDR
Ti	47	45	He	0.006	40.15	30.00	5	
V	51	45	He	0.002	9.88	520.02	5	
Cr	52	45	He	0.001	54.16	1040.05	5	
Mn	55	72	He	0.373	2.57	39470.82	5	
Fe	56	72	He	0.183	2.19	48601.84	90	
Co	59	72	He	0.002	26.93	1310.09	5	
Ni	60	72	He	0.002	10.10	566.69	5	
Cu	63	72	He	0.000	18.97	476.68	5	
Zn	66	72	He	-0.010	N/A	290.01	5	
As	75	72	He	0.002	20.92	68.44	5	
Se	78	72	He	0.004	24.02	9.00	5	
Sr	88	72	He	15.418	1.83	1701143.05	5	
Mo	95	72	He	0.276	3.96	68027.32	5	
Ag	107	103	He	0.001	25.16	526.69	1	
Cd	111	103	He	0.000	45.40	15.33	5	
Sn	118	103	He	-0.001	N/A	90.00	2	
Sb	121	103	He	0.001	35.42	356.68	1	
Ba	137	103	He	0.044	4.95	3013.73	2	
Tl	205	175	He	0.000	28.63	276.68	5	
Pb	208	175	He	0.000	16.69	2190.12	5	
U	238	175	He	0.027	2.24	80000.89	5	

QC ISTD Table

Sample Report

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc (No He)	45	No Gas	1926504.82	1.51	1786932.63	107.81	60	120	
Ge (No He)	72	No Gas	521178.34	0.14	491075.8	106.13	60	120	
Sc	45	He	20189.56	2.35	19446.29	103.82	60	120	
Ge	72	He	21898.91	2.17	21065.48	103.96	60	120	
Rh	103	He	856649.94	0.37	873163.84	98.11	60	120	
Lu	175	He	466562.66	0.69	442524.836666667	105.43	60	120	

Sample Report

Sample Name	SD L734231-15 WG756357
File Name	038SMPL.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\112814ICPMS8B.b
Acq Time	2014-11-28 20:17:04
Sample Type	Sample
Total Dilution	27.7778
Comment	---
ISTD Ref FileName	001CALB.d
Sample QC Pass/Fial	Pass
ISTD QC Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD	Tune Mode	Conc.	Conc. RSD	CPS	LDR	QC Flag
B	10	45	No Gas	1.603	1.15	11546.47	5	
B	11	45	No Gas	1.581	1.28	55125.61	5	
Se	82	72	No Gas	-0.013	N/A	945.59	5	
Be	9	45	He	0.003	71.17	2.33	5	
Na	23	45	He	1632.019	0.48	9629850.69	90	
Mg	24	45	He	547.155	1.09	1463516.49	90	
Al	27	45	He	0.193	5.97	146.67	90	
K	39	45	He	96.966	1.30	164912.82	90	
Ca	43	45	He	680.631	0.90	3928.20	90	
Ti	47	45	He	0.007	154.61	10.00	5	
V	51	45	He	0.002	25.70	113.33	5	
Cr	52	45	He	0.000	1141.90	810.04	5	
Mn	55	72	He	0.353	3.29	7785.54	5	
Fe	56	72	He	0.114	5.83	10997.79	90	
Co	59	72	He	0.000	N/A	186.67	5	
Ni	60	72	He	0.003	20.48	166.67	5	
Cu	63	72	He	-0.001	N/A	156.67	5	
Zn	66	72	He	-0.060	N/A	156.67	5	
As	75	72	He	0.001	22.08	13.34	5	
Se	78	72	He	0.004	168.89	6.00	5	
Sr	88	72	He	14.077	0.53	320725.82	5	
Mo	95	72	He	0.262	3.17	13336.47	5	
Ag	107	103	He	0.001	21.54	170.00	1	
Cd	111	103	He	0.000	417.93	3.33	5	
Sn	118	103	He	-0.005	N/A	73.33	2	
Sb	121	103	He	0.002	61.96	173.34	1	
Ba	137	103	He	0.046	16.17	693.37	2	
Tl	205	175	He	0.000	N/A	106.67	5	
Pb	208	175	He	-0.001	N/A	670.02	5	
U	238	175	He	0.025	1.42	15619.69	5	

QC ISTD Table

Sample Report

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc (No He)	45	No Gas	1937503.51	1.21	1786932.63	108.43	60	120	
Ge (No He)	72	No Gas	527730.58	0.65	491075.8	107.46	60	120	
Sc	45	He	20566.74	1.44	19446.29	105.76	60	120	
Ge	72	He	22597.81	1.74	21065.48	107.27	60	120	
Rh	103	He	915528.66	0.39	873163.84	104.85	60	120	
Lu	175	He	471965.51	0.37	442524.836666667	106.65	60	120	

Sample Report

Sample Name	MS L734231-15 WG756357
File Name	039SMPL.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\112814ICPMS8B.b
Acq Time	2014-11-28 20:18:36
Sample Type	Sample
Total Dilution	5.5556
Comment	---
ISTD Ref FileName	001CALB.d
Sample QC Pass/Fial	Fail
ISTD QC Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD	Tune Mode	Conc.	Conc. RSD	CPS	LDR	QC Flag
B	10	45	No Gas	1.566	1.24	52242.63	5	
B	11	45	No Gas	1.566	1.46	252644.28	5	
Se	82	72	No Gas	0.049	2.71	3045.90	5	
Be	9	45	He	0.048	1.56	119.00	5	
Na	23	45	He	1690.662	2.69	47366324.29	90	>LDR
Mg	24	45	He	541.330	2.48	6880510.73	90	>LDR
Al	27	45	He	0.223	3.20	663.36	90	
K	39	45	He	100.011	1.46	786296.08	90	
Ca	43	45	He	710.605	1.53	19458.55	90	>LDR
Ti	47	45	He	0.063	18.40	270.01	5	
V	51	45	He	0.055	1.57	13242.93	5	
Cr	52	45	He	0.052	1.56	17504.22	5	
Mn	55	72	He	0.422	2.92	42743.13	5	
Fe	56	72	He	0.237	3.08	58632.02	90	
Co	59	72	He	0.055	3.82	37970.09	5	
Ni	60	72	He	0.052	4.28	10540.74	5	
Cu	63	72	He	0.051	2.46	30355.54	5	
Zn	66	72	He	0.043	5.30	3067.06	5	
As	75	72	He	0.054	0.54	1878.35	5	
Se	78	72	He	0.049	17.50	57.00	5	
Sr	88	72	He	15.295	0.23	1616058.57	5	
Mo	95	72	He	0.330	2.85	78004.87	5	
Ag	107	103	He	0.051	2.51	48203.17	1	
Cd	111	103	He	0.053	1.32	4693.46	5	
Sn	118	103	He	0.052	0.53	8676.17	2	
Sb	121	103	He	0.056	5.44	11334.87	1	
Ba	137	103	He	0.096	4.83	6378.24	2	
Tl	205	175	He	0.047	0.12	103239.35	5	
Pb	208	175	He	0.050	0.17	134882.84	5	
U	238	175	He	0.026	0.65	75574.45	5	

QC ISTD Table

Sample Report

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc (No He)	45	No Gas	1823718.36	1.39	1786932.63	102.06	60	120	
Ge (No He)	72	No Gas	492415.57	1.11	491075.8	100.27	60	120	
Sc	45	He	19558.69	1.88	19446.29	100.58	60	120	
Ge	72	He	20965.35	1.12	21065.48	99.52	60	120	
Rh	103	He	839232.41	0.26	873163.84	96.11	60	120	
Lu	175	He	447918.34	0.14	442524.836666667	101.22	60	120	

Sample Report

Sample Name	MSD L734231-15 WG756357
File Name	040SMPL.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\112814ICPMS8B.b
Acq Time	2014-11-28 20:20:08
Sample Type	Sample
Total Dilution	5.5556
Comment	---
ISTD Ref FileName	001CALB.d
Sample QC Pass/Fial	Fail
ISTD QC Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD	Tune Mode	Conc.	Conc. RSD	CPS	LDR	QC Flag
B	10	45	No Gas	2.003	1.66	64830.23	5	
B	11	45	No Gas	1.997	1.85	312538.75	5	
Se	82	72	No Gas	0.062	4.92	3510.45	5	
Be	9	45	He	0.062	6.92	153.00	5	
Na	23	45	He	2134.957	2.11	59708062.44	90	>LDR
Mg	24	45	He	686.512	1.42	8710963.21	90	>LDR
Al	27	45	He	0.307	13.88	900.05	90	
K	39	45	He	126.236	1.61	989250.95	90	
Ca	43	45	He	894.993	2.60	24458.35	90	>LDR
Ti	47	45	He	0.083	23.89	350.01	5	
V	51	45	He	0.069	3.52	16446.19	5	
Cr	52	45	He	0.063	2.20	20932.05	5	
Mn	55	72	He	0.533	1.17	54120.97	5	
Fe	56	72	He	0.306	1.86	74562.34	90	
Co	59	72	He	0.067	2.30	46153.79	5	
Ni	60	72	He	0.063	1.65	12935.98	5	
Cu	63	72	He	0.063	0.64	37672.70	5	
Zn	66	72	He	0.054	7.59	3667.19	5	
As	75	72	He	0.070	1.03	2434.43	5	
Se	78	72	He	0.065	20.08	74.33	5	
Sr	88	72	He	19.200	1.83	2034625.33	5	
Mo	95	72	He	0.410	2.18	97165.86	5	
Ag	107	103	He	0.062	1.32	57822.76	1	
Cd	111	103	He	0.066	1.83	5776.54	5	
Sn	118	103	He	0.067	2.55	10944.46	2	
Sb	121	103	He	0.069	3.90	13853.80	1	
Ba	137	103	He	0.120	3.59	7852.35	2	
Tl	205	175	He	0.058	2.34	123919.61	5	
Pb	208	175	He	0.062	0.98	162216.96	5	
U	238	175	He	0.033	0.49	94131.56	5	

QC ISTD Table

Sample Report

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc (No He)	45	No Gas	1771111.90	2.14	1786932.63	99.11	60	120	
Ge (No He)	72	No Gas	481244.89	1.19	491075.8	98	60	120	
Sc	45	He	19521.97	1.30	19446.29	100.39	60	120	
Ge	72	He	21030.99	1.31	21065.48	99.84	60	120	
Rh	103	He	823517.98	0.42	873163.84	94.31	60	120	
Lu	175	He	439418.29	1.17	442524.836666667	99.3	60	120	

Sample Report

Sample Name	L734231-18 WG756357
File Name	041SMPL.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\112814ICPMS8B.b
Acq Time	2014-11-28 20:21:42
Sample Type	Sample
Total Dilution	5.5556
Comment	---
ISTD Ref FileName	001CALB.d
Sample QC Pass/Fial	Fail
ISTD QC Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD	Tune Mode	Conc.	Conc. RSD	CPS	LDR	QC Flag
B	10	45	No Gas	2.149	2.66	70595.27	5	
B	11	45	No Gas	2.162	1.77	343498.17	5	
Se	82	72	No Gas	0.002	70.19	1062.27	5	
Be	9	45	He	0.000	N/A	0.33	5	
Na	23	45	He	3815.494	1.94	105684478.42	90	>LDR
Mg	24	45	He	865.202	3.34	10871080.67	90	>LDR
Al	27	45	He	0.022	61.22	90.00	90	
K	39	45	He	214.891	1.19	1664579.82	90	
Ca	43	45	He	750.898	2.45	20325.38	90	>LDR
Ti	47	45	He	-0.001	N/A	0.00	5	
V	51	45	He	0.002	14.35	373.35	5	
Cr	52	45	He	0.001	27.67	983.38	5	
Mn	55	72	He	0.612	0.83	60074.52	5	
Fe	56	72	He	0.000	N/A	4834.28	90	
Co	59	72	He	0.001	16.64	726.70	5	
Ni	60	72	He	0.004	8.91	760.03	5	
Cu	63	72	He	0.000	333.53	296.68	5	
Zn	66	72	He	-0.009	N/A	276.68	5	
As	75	72	He	0.002	6.88	76.89	5	
Se	78	72	He	0.002	148.30	6.67	5	
Sr	88	72	He	17.591	1.53	1803676.69	5	
Mo	95	72	He	0.560	1.67	128272.26	5	
Ag	107	103	He	0.000	12.78	400.01	1	
Cd	111	103	He	0.000	45.56	9.33	5	
Sn	118	103	He	-0.001	N/A	113.33	2	
Sb	121	103	He	0.001	26.33	300.01	1	
Ba	137	103	He	0.026	8.16	1606.80	2	
Tl	205	175	He	0.000	N/A	96.67	5	
Pb	208	175	He	0.000	N/A	770.02	5	
U	238	175	He	0.039	1.99	103594.82	5	

QC ISTD Table

Sample Report

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc (No He)	45	No Gas	1798411.95	1.52	1786932.63	100.64	60	120	
Ge (No He)	72	No Gas	477265.50	0.75	491075.8	97.19	60	120	
Sc	45	He	19339.51	2.59	19446.29	99.45	60	120	
Ge	72	He	20346.67	1.14	21065.48	96.59	60	120	
Rh	103	He	782451.84	1.77	873163.84	89.61	60	120	
Lu	175	He	417423.43	2.11	442524.836666667	94.33	60	120	

Sample Report

Sample Name	L734231-21 WG756357
File Name	042SMPL.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\112814ICPMS8B.b
Acq Time	2014-11-28 20:23:13
Sample Type	Sample
Total Dilution	5.5556
Comment	---
ISTD Ref FileName	001CALB.d
Sample QC Pass/Fial	Fail
ISTD QC Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD	Tune Mode	Conc.	Conc. RSD	CPS	LDR	QC Flag
B	10	45	No Gas	2.108	2.57	68247.15	5	
B	11	45	No Gas	2.124	2.44	332572.34	5	
Se	82	72	No Gas	0.003	41.14	1072.27	5	
Be	9	45	He	0.000	N/A	0.67	5	
Na	23	45	He	4395.083	0.91	123826121.49	90	>LDR
Mg	24	45	He	833.651	1.97	10655561.09	90	>LDR
Al	27	45	He	0.015	80.09	73.33	90	
K	39	45	He	225.241	0.21	1774171.27	90	
Ca	43	45	He	720.939	2.41	19849.09	90	>LDR
Ti	47	45	He	0.000	N/A	3.33	5	
V	51	45	He	0.000	19.55	136.67	5	
Cr	52	45	He	0.002	21.76	1350.09	5	
Mn	55	72	He	0.602	1.70	60231.59	5	
Fe	56	72	He	0.051	5.90	16492.95	90	
Co	59	72	He	0.001	18.90	556.69	5	
Ni	60	72	He	0.002	14.10	420.01	5	
Cu	63	72	He	0.000	57.63	403.35	5	
Zn	66	72	He	-0.008	N/A	380.01	5	
As	75	72	He	0.002	12.97	75.11	5	
Se	78	72	He	0.001	433.57	5.67	5	
Sr	88	72	He	15.428	0.84	1610392.32	5	
Mo	95	72	He	0.366	1.32	85407.47	5	
Ag	107	103	He	0.000	50.06	163.34	1	
Cd	111	103	He	0.000	249.30	3.33	5	
Sn	118	103	He	-0.001	N/A	76.67	2	
Sb	121	103	He	0.001	38.88	306.68	1	
Ba	137	103	He	0.049	8.64	3063.75	2	
Tl	205	175	He	0.000	N/A	56.67	5	
Pb	208	175	He	0.000	N/A	783.35	5	
U	238	175	He	0.030	3.02	79820.55	5	

QC ISTD Table

Sample Report

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc (No He)	45	No Gas	1772667.47	1.43	1786932.63	99.2	60	120	
Ge (No He)	72	No Gas	469110.23	0.88	491075.8	95.53	60	120	
Sc	45	He	19666.59	1.46	19446.29	101.13	60	120	
Ge	72	He	20713.84	1.96	21065.48	98.33	60	120	
Rh	103	He	792958.50	0.95	873163.84	90.81	60	120	
Lu	175	He	409330.07	1.58	442524.836666667	92.5	60	120	

Sample Report

Sample Name	L734231-23 WG756357
File Name	043SMPL.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\112814ICPMS8B.b
Acq Time	2014-11-28 20:24:47
Sample Type	Sample
Total Dilution	5.5556
Comment	---
ISTD Ref FileName	001CALB.d
Sample QC Pass/Fial	Fail
ISTD QC Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD	Tune Mode	Conc.	Conc. RSD	CPS	LDR	QC Flag
B	10	45	No Gas	0.885	1.73	29402.82	5	
B	11	45	No Gas	0.876	0.31	140768.42	5	
Se	82	72	No Gas	0.003	69.29	1082.27	5	
Be	9	45	He	0.000	N/A	0.33	5	
Na	23	45	He	793.772	1.48	22293623.83	90	>LDR
Mg	24	45	He	217.054	1.58	2764993.08	90	
Al	27	45	He	0.022	72.80	93.33	90	
K	39	45	He	76.600	0.38	604680.69	90	
Ca	43	45	He	658.630	2.08	18071.48	90	>LDR
Ti	47	45	He	-0.001	N/A	0.00	5	
V	51	45	He	0.006	3.14	1353.43	5	
Cr	52	45	He	0.001	34.65	1093.39	5	
Mn	55	72	He	0.111	2.37	11418.06	5	
Fe	56	72	He	-0.004	N/A	4220.72	90	
Co	59	72	He	0.001	12.90	810.04	5	
Ni	60	72	He	0.001	40.26	286.67	5	
Cu	63	72	He	0.001	21.84	806.70	5	
Zn	66	72	He	-0.010	N/A	230.01	5	
As	75	72	He	0.004	20.40	132.00	5	
Se	78	72	He	0.002	131.54	7.00	5	
Sr	88	72	He	11.561	1.56	1230145.24	5	
Mo	95	72	He	0.320	2.12	76040.78	5	
Ag	107	103	He	0.000	74.37	73.33	1	
Cd	111	103	He	0.000	191.99	4.67	5	
Sn	118	103	He	-0.001	N/A	56.67	2	
Sb	121	103	He	0.001	52.70	196.67	1	
Ba	137	103	He	0.056	3.12	3683.90	2	
Tl	205	175	He	0.000	N/A	73.33	5	
Pb	208	175	He	0.003	3.17	8324.55	5	
U	238	175	He	0.013	0.16	33580.73	5	

QC ISTD Table

Sample Report

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc (No He)	45	No Gas	1809791.74	0.34	1786932.63	101.28	60	120	
Ge (No He)	72	No Gas	479473.69	0.40	491075.8	97.64	60	120	
Sc	45	He	19593.27	1.18	19446.29	100.76	60	120	
Ge	72	He	21114.45	1.82	21065.48	100.23	60	120	
Rh	103	He	826175.82	1.00	873163.84	94.62	60	120	
Lu	175	He	410457.00	0.68	442524.836666667	92.75	60	120	

Sample Report

Sample Name	L734810-02 WG756357
File Name	044SMPL.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\112814ICPMS8B.b
Acq Time	2014-11-28 20:26:18
Sample Type	Sample
Total Dilution	5.5556
Comment	---
ISTD Ref FileName	001CALB.d
Sample QC Pass/Fial	Fail
ISTD QC Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD	Tune Mode	Conc.	Conc. RSD	CPS	LDR	QC Flag
B	10	45	No Gas	0.223	3.68	7464.55	5	
B	11	45	No Gas	0.226	0.42	36538.44	5	
Se	82	72	No Gas	0.014	7.22	1518.98	5	
Be	9	45	He	0.000	4297.47	0.67	5	
Na	23	45	He	1437.970	0.42	39716761.91	90	>LDR
Mg	24	45	He	381.149	1.69	4775315.24	90	
Al	27	45	He	0.195	11.67	576.69	90	
K	39	45	He	9.526	2.06	78623.66	90	
Ca	43	45	He	1005.979	0.48	27146.38	90	>LDR
Ti	47	45	He	0.002	259.32	10.00	5	
V	51	45	He	0.002	4.27	513.35	5	
Cr	52	45	He	0.001	11.21	1213.41	5	
Mn	55	72	He	0.363	3.69	36920.78	5	
Fe	56	72	He	0.192	5.11	48645.32	90	
Co	59	72	He	0.003	14.99	2056.85	5	
Ni	60	72	He	0.006	6.27	1166.73	5	
Cu	63	72	He	0.002	14.59	1240.08	5	
Zn	66	72	He	0.004	32.77	983.39	5	
As	75	72	He	0.001	37.72	24.44	5	
Se	78	72	He	0.005	36.88	10.00	5	
Sr	88	72	He	18.353	3.14	1946706.12	5	
Mo	95	72	He	0.020	8.52	4800.92	5	
Ag	107	103	He	0.000	24.11	73.33	1	
Cd	111	103	He	0.000	54.84	15.33	5	
Sn	118	103	He	-0.001	N/A	66.67	2	
Sb	121	103	He	0.000	256.79	96.67	1	
Ba	137	103	He	0.080	6.90	5154.41	2	
Tl	205	175	He	0.000	57.51	310.02	5	
Pb	208	175	He	0.000	277.91	1000.03	5	
U	238	175	He	0.005	2.91	13260.35	5	

QC ISTD Table

Sample Report

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc (No He)	45	No Gas	1784137.99	0.67	1786932.63	99.84	60	120	
Ge (No He)	72	No Gas	474541.48	0.73	491075.8	96.63	60	120	
Sc	45	He	19275.01	1.12	19446.29	99.12	60	120	
Ge	72	He	21053.25	2.26	21065.48	99.94	60	120	
Rh	103	He	813605.33	0.28	873163.84	93.18	60	120	
Lu	175	He	417079.63	1.45	442524.836666667	94.25	60	120	

Sample Report

Sample Name	L734810-04 WG756357
File Name	045SMPL.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\112814ICPMS8B.b
Acq Time	2014-11-28 20:27:50
Sample Type	Sample
Total Dilution	5.5556
Comment	---
ISTD Ref FileName	001CALB.d
Sample QC Pass/Fial	Fail
ISTD QC Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD	Tune Mode	Conc.	Conc. RSD	CPS	LDR	QC Flag
B	10	45	No Gas	0.225	0.32	7481.22	5	
B	11	45	No Gas	0.230	1.40	37051.66	5	
Se	82	72	No Gas	0.017	3.79	1625.66	5	
Be	9	45	He	0.000	N/A	0.00	5	
Na	23	45	He	1707.189	0.80	47039725.96	90	>LDR
Mg	24	45	He	470.203	0.47	5877842.41	90	
Al	27	45	He	0.289	4.66	836.71	90	
K	39	45	He	7.424	1.25	62312.37	90	
Ca	43	45	He	977.817	1.22	26324.22	90	>LDR
Ti	47	45	He	0.005	74.86	23.33	5	
V	51	45	He	0.005	9.47	1090.06	5	
Cr	52	45	He	0.002	28.82	1320.09	5	
Mn	55	72	He	0.127	6.52	12729.11	5	
Fe	56	72	He	0.300	1.13	71720.52	90	
Co	59	72	He	0.001	12.87	930.05	5	
Ni	60	72	He	0.003	18.71	663.36	5	
Cu	63	72	He	0.001	9.00	1003.39	5	
Zn	66	72	He	-0.005	N/A	513.35	5	
As	75	72	He	0.001	16.06	45.33	5	
Se	78	72	He	0.017	13.53	23.00	5	
Sr	88	72	He	19.260	0.51	1998817.99	5	
Mo	95	72	He	0.015	9.41	3373.79	5	
Ag	107	103	He	0.000	51.49	86.67	1	
Cd	111	103	He	0.000	10.41	12.67	5	
Sn	118	103	He	-0.001	N/A	96.67	2	
Sb	121	103	He	0.000	295.20	96.67	1	
Ba	137	103	He	0.055	10.35	3503.85	2	
Tl	205	175	He	0.000	47.46	286.68	5	
Pb	208	175	He	0.000	7.00	1510.07	5	
U	238	175	He	0.005	5.56	13290.39	5	

QC ISTD Table

Sample Report

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc (No He)	45	No Gas	1775067.06	0.56	1786932.63	99.34	60	120	
Ge (No He)	72	No Gas	471024.28	1.10	491075.8	95.92	60	120	
Sc	45	He	19230.49	1.20	19446.29	98.89	60	120	
Ge	72	He	20592.57	0.70	21065.48	97.76	60	120	
Rh	103	He	807896.50	0.71	873163.84	92.53	60	120	
Lu	175	He	416126.97	1.55	442524.836666667	94.03	60	120	

Sample Report

Sample Name	L734810-06 WG756357
File Name	046SMPL.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\112814ICPMS8B.b
Acq Time	2014-11-28 20:29:20
Sample Type	Sample
Total Dilution	5.5556
Comment	---
ISTD Ref FileName	001CALB.d
Sample QC Pass/Fial	Fail
ISTD QC Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD	Tune Mode	Conc.	Conc. RSD	CPS	LDR	QC Flag
B	10	45	No Gas	0.437	2.74	14362.89	5	
B	11	45	No Gas	0.439	0.75	69696.68	5	
Se	82	72	No Gas	0.013	10.93	1462.31	5	
Be	9	45	He	0.000	N/A	0.33	5	
Na	23	45	He	1568.929	1.69	43049012.69	90	>LDR
Mg	24	45	He	449.888	1.16	5600330.33	90	
Al	27	45	He	0.729	9.80	2056.85	90	
K	39	45	He	9.101	0.41	74877.43	90	
Ca	43	45	He	803.086	0.83	21532.78	90	>LDR
Ti	47	45	He	0.019	35.29	80.00	5	
V	51	45	He	0.006	11.14	1443.43	5	
Cr	52	45	He	0.003	12.50	1826.81	5	
Mn	55	72	He	0.257	2.44	25405.98	5	
Fe	56	72	He	1.004	0.84	226509.72	90	
Co	59	72	He	0.002	12.40	1630.12	5	
Ni	60	72	He	0.004	4.55	840.04	5	
Cu	63	72	He	0.002	13.31	1606.78	5	
Zn	66	72	He	-0.002	N/A	663.36	5	
As	75	72	He	0.002	13.19	61.33	5	
Se	78	72	He	0.009	66.83	14.33	5	
Sr	88	72	He	13.274	0.53	1368345.55	5	
Mo	95	72	He	0.015	5.39	3370.45	5	
Ag	107	103	He	0.000	30.23	170.00	1	
Cd	111	103	He	0.000	16.95	14.00	5	
Sn	118	103	He	-0.001	N/A	66.67	2	
Sb	121	103	He	0.000	109.80	120.00	1	
Ba	137	103	He	0.059	4.26	3813.93	2	
Tl	205	175	He	0.000	31.47	280.01	5	
Pb	208	175	He	0.001	5.53	3533.61	5	
U	238	175	He	0.007	2.20	19171.17	5	

QC ISTD Table

Sample Report

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc (No He)	45	No Gas	1776224.25	1.49	1786932.63	99.4	60	120	
Ge (No He)	72	No Gas	473047.53	1.50	491075.8	96.33	60	120	
Sc	45	He	19150.37	0.93	19446.29	98.48	60	120	
Ge	72	He	20454.60	0.38	21065.48	97.1	60	120	
Rh	103	He	816581.71	0.41	873163.84	93.52	60	120	
Lu	175	He	421813.01	0.80	442524.836666667	95.32	60	120	

Sample Report

Sample Name	L734810-08 WG756357
File Name	047SMPL.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\112814ICPMS8B.b
Acq Time	2014-11-28 20:30:51
Sample Type	Sample
Total Dilution	5.5556
Comment	---
ISTD Ref FileName	001CALB.d
Sample QC Pass/Fial	Fail
ISTD QC Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD	Tune Mode	Conc.	Conc. RSD	CPS	LDR	QC Flag
B	10	45	No Gas	0.434	1.45	14232.77	5	
B	11	45	No Gas	0.431	1.21	68331.04	5	
Se	82	72	No Gas	0.014	4.34	1518.98	5	
Be	9	45	He	0.000	N/A	0.33	5	
Na	23	45	He	1665.928	2.50	45003242.66	90	>LDR
Mg	24	45	He	368.897	3.00	4520823.79	90	
Al	27	45	He	0.262	5.55	746.70	90	
K	39	45	He	9.956	4.12	80149.22	90	
Ca	43	45	He	833.616	2.24	22004.14	90	>LDR
Ti	47	45	He	0.002	147.47	10.00	5	
V	51	45	He	0.003	15.46	613.36	5	
Cr	52	45	He	0.004	18.90	2086.86	5	
Mn	55	72	He	0.335	2.23	32907.63	5	
Fe	56	72	He	0.308	2.40	72377.80	90	
Co	59	72	He	0.003	11.66	1880.15	5	
Ni	60	72	He	0.005	2.96	990.05	5	
Cu	63	72	He	0.002	4.83	1540.11	5	
Zn	66	72	He	-0.006	N/A	470.02	5	
As	75	72	He	0.001	18.81	26.22	5	
Se	78	72	He	0.014	25.98	19.33	5	
Sr	88	72	He	14.546	0.69	1489136.18	5	
Mo	95	72	He	0.013	2.79	2880.35	5	
Ag	107	103	He	0.000	179.66	46.67	1	
Cd	111	103	He	0.000	39.37	12.67	5	
Sn	118	103	He	-0.001	N/A	76.67	2	
Sb	121	103	He	0.000	923.75	90.00	1	
Ba	137	103	He	0.057	8.51	3633.89	2	
Tl	205	175	He	0.000	32.66	260.01	5	
Pb	208	175	He	0.000	17.42	1416.72	5	
U	238	175	He	0.012	2.95	31167.94	5	

QC ISTD Table

Sample Report

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc (No He)	45	No Gas	1773017.73	2.02	1786932.63	99.22	60	120	
Ge (No He)	72	No Gas	476536.77	0.16	491075.8	97.04	60	120	
Sc	45	He	18854.44	1.13	19446.29	96.96	60	120	
Ge	72	He	20313.33	2.15	21065.48	96.43	60	120	
Rh	103	He	800750.64	2.56	873163.84	91.71	60	120	
Lu	175	He	414712.18	2.16	442524.836666667	93.72	60	120	

Sample Report

Sample Name	L735181-03 WG756357
File Name	048SMPL.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\112814ICPMS8B.b
Acq Time	2014-11-28 20:32:22
Sample Type	Sample
Total Dilution	5.5556
Comment	---
ISTD Ref FileName	001CALB.d
Sample QC Pass/Fial	Fail
ISTD QC Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD	Tune Mode	Conc.	Conc. RSD	CPS	LDR	QC Flag
B	10	45	No Gas	0.316	2.06	10396.95	5	
B	11	45	No Gas	0.318	2.48	50617.14	5	
Se	82	72	No Gas	0.005	18.44	1177.83	5	
Be	9	45	He	0.000	N/A	0.00	5	
Na	23	45	He	1434.696	0.46	38131622.77	90	>LDR
Mg	24	45	He	322.525	2.79	3888059.63	90	
Al	27	45	He	0.001	683.04	30.00	90	
K	39	45	He	16.817	4.09	129626.72	90	
Ca	43	45	He	741.979	0.98	19268.98	90	>LDR
Ti	47	45	He	0.001	323.48	6.67	5	
V	51	45	He	0.027	6.22	6068.05	5	
Cr	52	45	He	0.001	17.68	1040.06	5	
Mn	55	72	He	0.819	1.09	80908.22	5	
Fe	56	72	He	-0.011	N/A	2523.59	90	
Co	59	72	He	0.002	3.47	1380.09	5	
Ni	60	72	He	0.009	7.49	1726.81	5	
Cu	63	72	He	0.002	2.94	1176.74	5	
Zn	66	72	He	-0.010	N/A	260.01	5	
As	75	72	He	0.005	13.08	169.78	5	
Se	78	72	He	0.002	43.09	7.00	5	
Sr	88	72	He	12.744	0.28	1315357.67	5	
Mo	95	72	He	0.033	6.57	7668.88	5	
Ag	107	103	He	0.000	17.44	56.67	1	
Cd	111	103	He	0.000	41.57	12.00	5	
Sn	118	103	He	-0.001	N/A	76.67	2	
Sb	121	103	He	0.000	110.04	136.67	1	
Ba	137	103	He	0.055	3.63	3580.54	2	
Tl	205	175	He	0.000	11.05	503.35	5	
Pb	208	175	He	0.000	N/A	403.34	5	
U	238	175	He	0.037	1.58	99478.16	5	

QC ISTD Table

Sample Report

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc (No He)	45	No Gas	1769988.88	1.41	1786932.63	99.05	60	120	
Ge (No He)	72	No Gas	477131.40	0.55	491075.8	97.16	60	120	
Sc	45	He	18548.50	1.67	19446.29	95.38	60	120	
Ge	72	He	20480.22	1.31	21065.48	97.22	60	120	
Rh	103	He	813792.46	0.44	873163.84	93.2	60	120	
Lu	175	He	420245.46	1.11	442524.836666667	94.97	60	120	

Sample Report

Sample Name	L735181-04 WG756357
File Name	049SMPL.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\112814ICPMS8B.b
Acq Time	2014-11-28 20:34:10
Sample Type	Sample
Total Dilution	5.5556
Comment	---
ISTD Ref FileName	001CALB.d
Sample QC Pass/Fial	Fail
ISTD QC Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD	Tune Mode	Conc.	Conc. RSD	CPS	LDR	QC Flag
B	10	45	No Gas	0.479	3.21	15307.82	5	
B	11	45	No Gas	0.478	2.07	73908.61	5	
Se	82	72	No Gas	0.006	10.84	1156.72	5	
Be	9	45	He	0.000	N/A	0.00	5	
Na	23	45	He	4027.313	2.71	109211328.37	90	>LDR
Mg	24	45	He	837.728	2.51	10307346.93	90	>LDR
Al	27	45	He	0.043	18.28	146.67	90	
K	39	45	He	24.138	2.21	187652.93	90	
Ca	43	45	He	941.073	3.15	24936.82	90	>LDR
Ti	47	45	He	0.001	341.12	6.67	5	
V	51	45	He	0.026	4.25	6081.38	5	
Cr	52	45	He	0.001	5.75	1170.08	5	
Mn	55	72	He	0.709	4.32	69161.62	5	
Fe	56	72	He	0.048	6.91	15392.25	90	
Co	59	72	He	0.003	13.84	2253.55	5	
Ni	60	72	He	0.006	11.51	1126.73	5	
Cu	63	72	He	0.002	10.62	1203.41	5	
Zn	66	72	He	-0.007	N/A	383.35	5	
As	75	72	He	0.017	1.79	560.01	5	
Se	78	72	He	0.005	63.76	9.67	5	
Sr	88	72	He	19.195	2.31	1954312.26	5	
Mo	95	72	He	0.021	7.51	4870.93	5	
Ag	107	103	He	0.000	56.91	60.00	1	
Cd	111	103	He	0.000	69.99	16.67	5	
Sn	118	103	He	-0.001	N/A	76.67	2	
Sb	121	103	He	0.000	18.38	156.67	1	
Ba	137	103	He	0.076	1.16	4724.22	2	
Tl	205	175	He	0.000	1.78	380.01	5	
Pb	208	175	He	0.000	N/A	706.68	5	
U	238	175	He	0.031	2.70	80322.78	5	

QC ISTD Table

Sample Report

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc (No He)	45	No Gas	1730095.70	1.78	1786932.63	96.82	60	120	
Ge (No He)	72	No Gas	462716.71	0.56	491075.8	94.23	60	120	
Sc	45	He	18933.41	1.82	19446.29	97.36	60	120	
Ge	72	He	20206.48	1.47	21065.48	95.92	60	120	
Rh	103	He	780219.86	1.21	873163.84	89.36	60	120	
Lu	175	He	408330.75	1.30	442524.836666667	92.27	60	120	

Continuing Calibration Verification (CCV) Report

Sample Name	CCV 14K05175
File Name	050_CCV.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\112814ICPMS8B.b
Acq Time	2014-11-28 20:35:41
Sample Type	CCV
Total Dilution	1.0000
Comment	---
ISTD Ref FileName	001CALB.d
Sample QC Pass/Fial	Fail
ISTD QC Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD	Tune Mode	Conc.	Conc. RSD	CPS	ExpValue	% Rec	%QC Low	%QC High	QC Flag
B	10	45	No Gas	0.099	0.83	18998.05	0.9	10.99	10	10	
B	11	45	No Gas	0.098	1.63	90790.60	0.9	10.86	10	10	
Se	82	72	No Gas	0.098	1.46	24513.30	0.9	10.88	10	10	
Be	9	45	He	0.108	5.08	1470.08	0.9	12.02	10	10	
Na	23	45	He	11.033	3.59	1720815.96	0.9	1225.89	1000	1000	CCV Main CR1 Failed
Mg	24	45	He	10.709	0.18	753240.09	0.9	1189.89	1000	1000	
Al	27	45	He	1.088	2.43	17130.24	0.9	120.94	100	100	
K	39	45	He	10.240	2.34	447471.46	0.9	1137.78	1000	1000	
Ca	43	45	He	10.708	1.55	1630.76	0.9	1189.82	1000	1000	
Ti	47	45	He	0.107	10.33	2493.60	0.9	11.87	10	10	
V	51	45	He	0.105	0.71	138739.95	0.9	11.68	10	10	
Cr	52	45	He	0.106	1.54	188609.06	0.9	11.8	10	10	
Mn	55	72	He	0.105	3.66	59984.25	0.9	11.7	10	10	
Fe	56	72	He	1.051	3.42	1342662.22	0.9	116.77	100	100	
Co	59	72	He	0.107	3.30	410131.19	0.9	11.87	10	10	
Ni	60	72	He	0.106	2.35	121040.51	0.9	11.78	10	10	
Cu	63	72	He	0.107	2.98	355492.05	0.9	11.86	10	10	
Zn	66	72	He	0.105	2.33	32233.14	0.9	11.71	10	10	
As	75	72	He	0.103	1.95	20223.12	0.9	11.5	10	10	
Se	78	72	He	0.098	0.80	595.34	0.9	10.84	10	10	
Sr	88	72	He	0.102	2.79	61004.71	0.9	11.38	10	10	
Mo	95	72	He	0.106	3.26	140442.55	0.9	11.74	10	10	
Ag	107	103	He	0.104	0.03	571693.20	0.9	11.57	10	10	
Cd	111	103	He	0.103	0.66	53073.44	0.9	11.4	10	10	
Sn	118	103	He	0.104	1.30	98497.09	0.9	11.54	10	10	
Sb	121	103	He	0.102	0.42	119580.98	0.9	11.29	10	10	
Ba	137	103	He	0.102	1.17	39356.82	0.9	11.36	10	10	
Tl	205	175	He	0.099	1.06	1176167.32	0.9	11.05	10	10	
Pb	208	175	He	0.104	0.66	1500444.66	0.9	11.51	10	10	
U	238	175	He	0.101	1.93	1562532.01	0.9	11.19	10	10	

QC ISTD Table

Continuing Calibration Verification (CCV) Report

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc (No He)	45	No Gas	1875661.90	1.80	1786932.63	104.97	60	120	
Ge (No He)	72	No Gas	504171.92	0.91	491075.8	102.67	60	120	
Sc	45	He	19467.45	1.47	19446.29	100.11	60	120	
Ge	72	He	21243.56	1.64	21065.48	100.85	60	120	
Rh	103	He	877263.35	0.82	873163.84	100.47	60	120	
Lu	175	He	438107.40	0.94	442524.836666667	99	60	120	

Continuing Calibration Blank (CCB) Report

Sample Name	CCB 14K05174
File Name	051_CCB.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\112814ICPMS8B.b
Acq Time	2014-11-28 20:37:13
Sample Type	CCB
Total Dilution	1.0000
Comment	---
ISTD Ref FileName	001CALB.d
Sample QC Pass/Fial	Pass
ISTD QC Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD	Tune Mode	Conc.	Conc. RSD	CPS	Limit	QC Flag
B	10	45	No Gas	0.005	5.26	1094.71	0.015	
B	11	45	No Gas	0.004	2.86	5122.89	0.015	
Se	82	72	No Gas	0.000	433.29	1016.71	0.00075	
Be	9	45	He	0.000	282.27	1.00	0.00075	
Na	23	45	He	0.155	5.01	34781.13	0.75	
Mg	24	45	He	0.009	27.43	970.05	0.75	
Al	27	45	He	0.000	1014.45	30.00	0.0375	
K	39	45	He	-0.004	N/A	5050.96	0.75	
Ca	43	45	He	-0.016	N/A	7.00	0.75	
Ti	47	45	He	0.000	3709.18	3.33	0.0075	
V	51	45	He	0.000	30.89	50.00	0.0015	
Cr	52	45	He	0.000	116.54	826.71	0.00075	
Mn	55	72	He	0.000	N/A	66.67	0.0015	
Fe	56	72	He	0.001	46.45	5721.26	0.0375	
Co	59	72	He	0.000	N/A	73.33	0.00075	
Ni	60	72	He	0.000	65.73	93.33	0.00075	
Cu	63	72	He	0.000	N/A	206.67	0.0015	
Zn	66	72	He	-0.001	N/A	606.69	0.0075	
As	75	72	He	0.000	1.43	8.00	0.00075	
Se	78	72	He	0.000	N/A	3.67	0.00075	
Sr	88	72	He	0.000	27.89	233.34	0.0075	
Mo	95	72	He	0.000	96.11	36.67	0.0015	
Ag	107	103	He	0.000	28.19	290.01	0.000375	
Cd	111	103	He	0.000	98.70	14.00	0.000375	
Sn	118	103	He	0.000	512.98	230.01	0.00075	
Sb	121	103	He	0.000	55.07	243.34	0.00075	
Ba	137	103	He	0.000	N/A	10.00	0.0015	
Tl	205	175	He	0.000	27.28	320.01	0.00075	
Pb	208	175	He	0.000	74.09	1063.38	0.00075	
U	238	175	He	0.000	N/A	313.35	0.0075	

QC ISTD Table

Continuing Calibration Blank (CCB) Report

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc (No He)	45	No Gas	1830701.58	0.90	1786932.63	102.45	60	120	
Ge (No He)	72	No Gas	492316.10	0.82	491075.8	100.25	60	120	
Sc	45	He	18844.41	1.35	19446.29	96.9	60	120	
Ge	72	He	21010.98	1.03	21065.48	99.74	60	120	
Rh	103	He	878362.62	0.70	873163.84	100.6	60	120	
Lu	175	He	442847.77	1.24	442524.836666667	100.07	60	120	

Sample Report

Sample Name	L735181-06 WG756357
File Name	052SMPL.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\112814ICPMS8B.b
Acq Time	2014-11-28 20:38:45
Sample Type	Sample
Total Dilution	5.5556
Comment	---
ISTD Ref FileName	001CALB.d
Sample QC Pass/Fial	Fail
ISTD QC Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD	Tune Mode	Conc.	Conc. RSD	CPS	LDR	QC Flag
B	10	45	No Gas	0.474	1.49	14597.12	5	
B	11	45	No Gas	0.474	1.76	70497.06	5	
Se	82	72	No Gas	0.005	15.93	1114.49	5	
Be	9	45	He	0.000	N/A	0.33	5	
Na	23	45	He	1363.894	1.72	35201609.48	90	>LDR
Mg	24	45	He	362.407	2.81	4242557.44	90	
Al	27	45	He	0.191	1.60	526.69	90	
K	39	45	He	15.074	1.74	113375.94	90	
Ca	43	45	He	812.393	1.48	20487.95	90	>LDR
Ti	47	45	He	0.004	85.28	16.67	5	
V	51	45	He	0.083	1.87	18178.34	5	
Cr	52	45	He	0.002	32.97	1156.74	5	
Mn	55	72	He	0.234	4.63	22704.69	5	
Fe	56	72	He	0.238	2.32	56208.34	90	
Co	59	72	He	0.001	27.06	980.05	5	
Ni	60	72	He	0.006	14.19	1223.40	5	
Cu	63	72	He	0.006	3.71	3567.16	5	
Zn	66	72	He	-0.003	N/A	596.69	5	
As	75	72	He	0.014	6.07	452.90	5	
Se	78	72	He	0.004	128.16	8.67	5	
Sr	88	72	He	14.393	0.80	1452546.28	5	
Mo	95	72	He	0.055	4.55	12372.31	5	
Ag	107	103	He	0.000	10.48	423.35	1	
Cd	111	103	He	0.000	29.82	16.00	5	
Sn	118	103	He	-0.001	N/A	56.67	2	
Sb	121	103	He	0.000	90.93	143.33	1	
Ba	137	103	He	0.057	3.23	3660.56	2	
Tl	205	175	He	0.000	25.01	286.68	5	
Pb	208	175	He	0.000	15.27	1590.07	5	
U	238	175	He	0.079	0.34	217082.46	5	

QC ISTD Table

Sample Report

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc (No He)	45	No Gas	1666279.51	1.25	1786932.63	93.25	60	120	
Ge (No He)	72	No Gas	451460.87	0.56	491075.8	91.93	60	120	
Sc	45	He	18015.57	2.24	19446.29	92.64	60	120	
Ge	72	He	20025.11	1.15	21065.48	95.06	60	120	
Rh	103	He	804244.10	1.02	873163.84	92.11	60	120	
Lu	175	He	427748.59	0.14	442524.836666667	96.66	60	120	

Sample Report

Sample Name	L735181-09 WG756357
File Name	053SMPL.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\112814ICPMS8B.b
Acq Time	2014-11-28 20:40:16
Sample Type	Sample
Total Dilution	5.5556
Comment	---
ISTD Ref FileName	001CALB.d
Sample QC Pass/Fial	Fail
ISTD QC Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD	Tune Mode	Conc.	Conc. RSD	CPS	LDR	QC Flag
B	10	45	No Gas	0.196	1.86	6640.82	5	
B	11	45	No Gas	0.189	1.98	31096.89	5	
Se	82	72	No Gas	0.002	49.12	1048.93	5	
Be	9	45	He	0.000	1898.34	0.67	5	
Na	23	45	He	85.379	2.11	2224804.65	90	
Mg	24	45	He	142.157	1.87	1672821.33	90	
Al	27	45	He	0.011	55.33	56.67	90	
K	39	45	He	17.684	2.24	132780.83	90	
Ca	43	45	He	697.961	1.56	17688.99	90	>LDR
Ti	47	45	He	0.001	162.31	6.67	5	
V	51	45	He	0.009	3.04	1966.84	5	
Cr	52	45	He	0.001	17.04	1063.39	5	
Mn	55	72	He	0.677	1.85	66465.24	5	
Fe	56	72	He	-0.001	N/A	4804.23	90	
Co	59	72	He	0.003	4.19	2210.21	5	
Ni	60	72	He	0.006	9.32	1196.75	5	
Cu	63	72	He	0.001	25.23	846.71	5	
Zn	66	72	He	-0.007	N/A	396.68	5	
As	75	72	He	0.032	3.00	1081.38	5	
Se	78	72	He	0.001	146.50	5.33	5	
Sr	88	72	He	11.078	1.83	1135492.12	5	
Mo	95	72	He	0.030	3.70	6785.08	5	
Ag	107	103	He	0.000	48.59	170.00	1	
Cd	111	103	He	0.000	9.50	22.00	5	
Sn	118	103	He	-0.001	N/A	86.67	2	
Sb	121	103	He	0.001	10.35	213.34	1	
Ba	137	103	He	0.088	3.56	5838.01	2	
Tl	205	175	He	0.000	12.73	1160.07	5	
Pb	208	175	He	0.000	406.51	976.70	5	
U	238	175	He	0.037	1.65	103402.24	5	

QC ISTD Table

Sample Report

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc (No He)	45	No Gas	1801771.69	1.84	1786932.63	100.83	60	120	
Ge (No He)	72	No Gas	486496.96	0.48	491075.8	99.07	60	120	
Sc	45	He	18101.26	1.60	19446.29	93.08	60	120	
Ge	72	He	20343.34	2.04	21065.48	96.57	60	120	
Rh	103	He	833966.24	0.69	873163.84	95.51	60	120	
Lu	175	He	435177.04	0.81	442524.836666667	98.34	60	120	

Sample Report

Sample Name	L735318-06 WG756357
File Name	054SMPL.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\112814ICPMS8B.b
Acq Time	2014-11-28 20:41:48
Sample Type	Sample
Total Dilution	5.5556
Comment	---
ISTD Ref FileName	001CALB.d
Sample QC Pass/Fial	Fail
ISTD QC Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD	Tune Mode	Conc.	Conc. RSD	CPS	LDR	QC Flag
B	10	45	No Gas	0.496	2.95	16192.09	5	
B	11	45	No Gas	0.494	3.29	77908.74	5	
Se	82	72	No Gas	0.007	32.08	1260.06	5	
Be	9	45	He	0.000	N/A	0.00	5	
Na	23	45	He	64.445	2.09	1652652.58	90	
Mg	24	45	He	185.114	1.77	2140239.45	90	
Al	27	45	He	0.021	37.16	80.00	90	
K	39	45	He	19.248	1.09	141605.78	90	
Ca	43	45	He	675.645	2.35	16822.30	90	>LDR
Ti	47	45	He	0.001	156.22	6.67	5	
V	51	45	He	0.037	7.29	8122.41	5	
Cr	52	45	He	0.001	77.07	963.39	5	
Mn	55	72	He	0.308	2.12	29390.13	5	
Fe	56	72	He	0.001	251.81	5011.04	90	
Co	59	72	He	0.001	5.80	1016.72	5	
Ni	60	72	He	0.007	16.55	1440.09	5	
Cu	63	72	He	0.002	11.13	1286.74	5	
Zn	66	72	He	-0.008	N/A	323.34	5	
As	75	72	He	0.004	8.21	124.00	5	
Se	78	72	He	0.007	12.19	11.00	5	
Sr	88	72	He	10.916	1.37	1086088.68	5	
Mo	95	72	He	0.029	3.31	6531.63	5	
Ag	107	103	He	0.000	53.82	66.67	1	
Cd	111	103	He	0.000	39.81	12.00	5	
Sn	118	103	He	-0.001	N/A	70.00	2	
Sb	121	103	He	0.000	19.59	166.67	1	
Ba	137	103	He	0.068	5.46	4437.47	2	
Tl	205	175	He	0.000	16.24	393.34	5	
Pb	208	175	He	0.000	N/A	653.35	5	
U	238	175	He	0.027	1.50	75510.29	5	

QC ISTD Table

Sample Report

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc (No He)	45	No Gas	1768288.15	1.34	1786932.63	98.96	60	120	
Ge (No He)	72	No Gas	482732.51	0.77	491075.8	98.3	60	120	
Sc	45	He	17790.89	3.83	19446.29	91.49	60	120	
Ge	72	He	19745.84	2.74	21065.48	93.74	60	120	
Rh	103	He	826541.73	2.24	873163.84	94.66	60	120	
Lu	175	He	427274.58	2.34	442524.836666667	96.55	60	120	

Sample Report

Sample Name	L735318-09 WG756357
File Name	055SMPL.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\112814ICPMS8B.b
Acq Time	2014-11-28 20:43:20
Sample Type	Sample
Total Dilution	5.5556
Comment	---
ISTD Ref FileName	001CALB.d
Sample QC Pass/Fial	Fail
ISTD QC Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD	Tune Mode	Conc.	Conc. RSD	CPS	LDR	QC Flag
B	10	45	No Gas	0.190	0.55	6413.39	5	
B	11	45	No Gas	0.183	1.53	29942.53	5	
Se	82	72	No Gas	0.006	29.75	1255.62	5	
Be	9	45	He	0.000	253.09	1.00	5	
Na	23	45	He	73.547	2.12	1895378.51	90	
Mg	24	45	He	76.040	2.34	884289.99	90	
Al	27	45	He	0.016	65.16	70.00	90	
K	39	45	He	4.823	0.21	39386.57	90	
Ca	43	45	He	647.727	2.54	16220.96	90	>LDR
Ti	47	45	He	0.001	322.55	6.67	5	
V	51	45	He	0.022	5.41	4884.25	5	
Cr	52	45	He	0.002	16.39	1190.07	5	
Mn	55	72	He	0.097	5.51	9473.23	5	
Fe	56	72	He	0.000	61.97	4940.96	90	
Co	59	72	He	0.001	21.15	560.02	5	
Ni	60	72	He	0.002	3.81	483.35	5	
Cu	63	72	He	0.001	17.90	796.71	5	
Zn	66	72	He	-0.011	N/A	210.00	5	
As	75	72	He	0.002	24.00	79.11	5	
Se	78	72	He	0.006	68.59	10.33	5	
Sr	88	72	He	8.342	1.70	845145.46	5	
Mo	95	72	He	0.013	3.78	3017.05	5	
Ag	107	103	He	0.000	142.77	36.67	1	
Cd	111	103	He	0.000	N/A	1.33	5	
Sn	118	103	He	-0.001	N/A	46.67	2	
Sb	121	103	He	0.000	23.86	156.67	1	
Ba	137	103	He	0.069	0.63	4660.89	2	
Tl	205	175	He	0.000	83.83	183.34	5	
Pb	208	175	He	0.000	N/A	493.34	5	
U	238	175	He	0.010	1.57	29393.76	5	

QC ISTD Table

Sample Report

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc (No He)	45	No Gas	1794083.73	1.79	1786932.63	100.4	60	120	
Ge (No He)	72	No Gas	493999.05	0.62	491075.8	100.6	60	120	
Sc	45	He	17887.68	1.74	19446.29	91.99	60	120	
Ge	72	He	20103.03	1.28	21065.48	95.43	60	120	
Rh	103	He	851059.62	0.35	873163.84	97.47	60	120	
Lu	175	He	439474.24	0.84	442524.836666667	99.31	60	120	

Continuing Calibration Verification (CCV) Report

Sample Name	CCV 14K05175
File Name	056_CCV.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\112814ICPMS8B.b
Acq Time	2014-11-28 20:44:52
Sample Type	CCV
Total Dilution	1.0000
Comment	---
ISTD Ref FileName	001CALB.d
Sample QC Pass/Fial	Pass
ISTD QC Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD	Tune Mode	Conc.	Conc. RSD	CPS	ExpValue	% Rec	%QC Low	%QC High	QC Flag
B	10	45	No Gas	0.097	3.13	18460.70	0.9	10.8	10	10	
B	11	45	No Gas	0.097	2.38	88737.34	0.9	10.73	10	10	
Se	82	72	No Gas	0.100	0.70	25259.05	0.9	11.14	10	10	
Be	9	45	He	0.107	3.76	1404.07	0.9	11.91	10	10	
Na	23	45	He	10.792	1.07	1624948.42	0.9	1199.15	1000	1000	
Mg	24	45	He	10.561	1.57	716720.75	0.9	1173.48	1000	1000	
Al	27	45	He	1.064	0.40	16159.10	0.9	118.24	100	100	
K	39	45	He	10.052	0.78	424024.90	0.9	1116.89	1000	1000	
Ca	43	45	He	10.239	4.80	1504.08	0.9	1137.64	1000	1000	
Ti	47	45	He	0.109	4.97	2443.59	0.9	12.06	10	10	
V	51	45	He	0.105	0.91	133915.39	0.9	11.68	10	10	
Cr	52	45	He	0.107	1.82	184101.56	0.9	11.94	10	10	
Mn	55	72	He	0.104	2.47	57832.14	0.9	11.55	10	10	
Fe	56	72	He	1.044	0.43	1303645.73	0.9	116.05	100	100	
Co	59	72	He	0.108	0.79	404959.46	0.9	11.99	10	10	
Ni	60	72	He	0.106	0.67	118703.97	0.9	11.82	10	10	
Cu	63	72	He	0.109	0.26	354732.99	0.9	12.12	10	10	
Zn	66	72	He	0.108	1.25	32142.83	0.9	11.96	10	10	
As	75	72	He	0.105	0.67	20025.95	0.9	11.66	10	10	
Se	78	72	He	0.099	5.92	590.01	0.9	11	10	10	
Sr	88	72	He	0.103	1.52	59802.87	0.9	11.42	10	10	
Mo	95	72	He	0.107	0.84	138554.19	0.9	11.86	10	10	
Ag	107	103	He	0.104	1.11	578313.97	0.9	11.55	10	10	
Cd	111	103	He	0.102	1.70	53279.53	0.9	11.29	10	10	
Sn	118	103	He	0.101	1.06	96691.61	0.9	11.18	10	10	
Sb	121	103	He	0.101	0.52	120845.87	0.9	11.26	10	10	
Ba	137	103	He	0.100	2.08	38888.54	0.9	11.08	10	10	
Tl	205	175	He	0.102	0.10	1257707.51	0.9	11.37	10	10	
Pb	208	175	He	0.107	0.91	1614047.60	0.9	11.91	10	10	
U	238	175	He	0.105	1.47	1697001.75	0.9	11.69	10	10	

QC ISTD Table

Continuing Calibration Verification (CCV) Report

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc (No He)	45	No Gas	1854509.03	1.22	1786932.63	103.78	60	120	
Ge (No He)	72	No Gas	507765.63	0.53	491075.8	103.4	60	120	
Sc	45	He	18785.44	1.61	19446.29	96.6	60	120	
Ge	72	He	20746.13	0.60	21065.48	98.48	60	120	
Rh	103	He	889283.58	1.36	873163.84	101.85	60	120	
Lu	175	He	455227.01	0.10	442524.836666667	102.87	60	120	

Continuing Calibration Blank (CCB) Report

Sample Name	CCB 14K05174
File Name	057_CCB.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\112814ICPMS8B.b
Acq Time	2014-11-28 20:46:39
Sample Type	CCB
Total Dilution	1.0000
Comment	---
ISTD Ref FileName	001CALB.d
Sample QC Pass/Fial	Pass
ISTD QC Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD	Tune Mode	Conc.	Conc. RSD	CPS	Limit	QC Flag
B	10	45	No Gas	0.004	2.78	894.03	0.015	
B	11	45	No Gas	0.004	1.37	4239.28	0.015	
Se	82	72	No Gas	0.000	N/A	942.26	0.00075	
Be	9	45	He	0.000	1084.21	0.67	0.00075	
Na	23	45	He	0.052	5.52	18581.85	0.75	
Mg	24	45	He	0.003	33.81	536.68	0.75	
Al	27	45	He	-0.001	N/A	20.00	0.0375	
K	39	45	He	0.009	77.97	5334.41	0.75	
Ca	43	45	He	0.004	1607.04	9.33	0.75	
Ti	47	45	He	0.000	2117.23	3.33	0.0075	
V	51	45	He	0.000	27.44	66.67	0.0015	
Cr	52	45	He	0.000	79.34	800.04	0.00075	
Mn	55	72	He	0.000	N/A	76.67	0.0015	
Fe	56	72	He	0.001	22.75	5741.23	0.0375	
Co	59	72	He	0.000	N/A	126.67	0.00075	
Ni	60	72	He	0.000	37.69	153.33	0.00075	
Cu	63	72	He	0.000	113.37	333.34	0.0015	
Zn	66	72	He	0.000	N/A	643.36	0.0075	
As	75	72	He	0.000	35.76	11.11	0.00075	
Se	78	72	He	0.000	285.13	5.33	0.00075	
Sr	88	72	He	0.000	109.31	186.67	0.0075	
Mo	95	72	He	0.000	63.19	56.67	0.0015	
Ag	107	103	He	0.000	18.08	383.35	0.000375	
Cd	111	103	He	0.000	49.40	22.67	0.000375	
Sn	118	103	He	0.000	87.86	243.34	0.00075	
Sb	121	103	He	0.000	7.31	330.01	0.00075	
Ba	137	103	He	0.000	N/A	10.00	0.0015	
Tl	205	175	He	0.000	8.09	566.69	0.00075	
Pb	208	175	He	0.000	8.78	1410.05	0.00075	
U	238	175	He	0.000	222.44	763.37	0.0075	

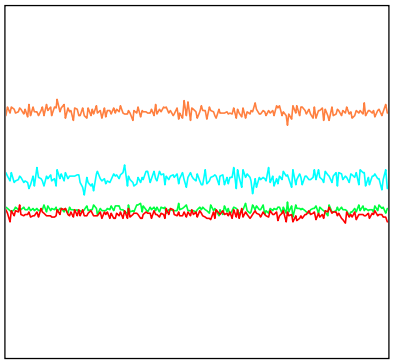
QC ISTD Table

Continuing Calibration Blank (CCB) Report

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc (No He)	45	No Gas	1812036.85	0.45	1786932.63	101.4	60	120	
Ge (No He)	72	No Gas	495666.24	0.60	491075.8	100.93	60	120	
Sc	45	He	17991.12	2.03	19446.29	92.52	60	120	
Ge	72	He	20404.52	1.88	21065.48	96.86	60	120	
Rh	103	He	875567.48	0.56	873163.84	100.28	60	120	
Lu	175	He	442915.10	0.16	442524.836666667	100.09	60	120	

Current Signal

[No Gas]



Mass	Range	Count	Avg. Count	RSD [%]
7	5000	2396	2547.5	2.92
59	50000	21284	21042.3	1.85
89	50000	34855	34987.0	1.71
205	50000	19314	20330.7	2.22
156/140	1	0.794 %	0.726 %	7.34
70/140	2	1.040 %	1.009 %	6.01
103	500	125	128.5	25.48

Integration Time [sec] 0.10

Plasma Parameters

RF Power	1550	W	Nebulizer Pump	0.30	rps
RF Matching	1.60	V	S/C Temp	2	℃
Smpl Depth	10.0	mm	Gas Switch	Dilution Gas	
Carrier Gas	0.75	L/min	Makeup/Dilution Gas	0.35	L/min
Option Gas	0.0	%			

Lenses Parameters

Extract 1	0.0	V	Cell Entrance	-30	V
Extract 2	-200.0	V	Cell Exit	-52	V
Omega Bias	-80	V	Deflect	15.4	V
Omega Lens	8.8	V	Plate Bias	-40	V

Cell Parameters

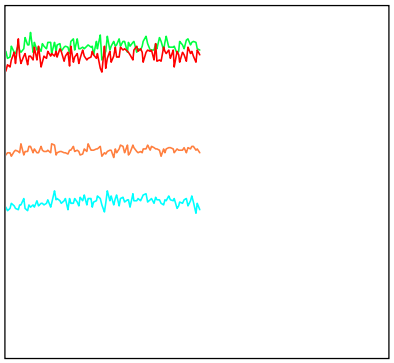
Use Gas	false		OctP Bias	-8.0	V
He Flow	5.0	mL/min	OctP RF	150	V
H2 Flow	0.0	mL/min	Energy Discrimination	5.0	V
3rd Gas Flow	0	%			

Meters

IF/BK Press	1.78E+2	Pa	Water RF/WC/IF	1.45	L/min
TMP Revolution	100.0	%	S/C Temp (L)	1.9	℃
Carrier Gas(BP)	3.20E+2	kPa			

Current Signal

[No Gas]



Mass	Range	Count	Avg. Count	RSD [%]
7	5000	2108	2212.0	2.91
59	20000	17560	17737.0	1.70
89	50000	29154	29479.8	1.44
205	20000	17251	17194.8	2.13
156/140	1	0.702 %	0.684 %	8.99
70/140	2	1.044 %	1.030 %	6.27
103	200	137	145.6	10.01

Integration Time [sec] 0.10

Plasma Parameters

RF Power	1550	W	Nebulizer Pump	0.10	rps
RF Matching	1.60	V	S/C Temp	2	℃
Smpl Depth	10.0	mm	Gas Switch	Dilution Gas	
Carrier Gas	0.75	L/min	Makeup/Dilution Gas	0.35	L/min
Option Gas	0.0	%			

Lenses Parameters

Extract 1	0.0	V	Cell Entrance	-30	V
Extract 2	-200.0	V	Cell Exit	-52	V
Omega Bias	-80	V	Deflect	15.4	V
Omega Lens	8.8	V	Plate Bias	-40	V

Cell Parameters

Use Gas	false		OctP Bias	-8.0	V
He Flow	5.0	mL/min	OctP RF	150	V
H2 Flow	0.0	mL/min	Energy Discrimination	5.0	V
3rd Gas Flow	0	%			

Meters

IF/BK Press	1.78E+2	Pa	Water RF/WC/IF	1.49	L/min
TMP Revolution	100.0	%	S/C Temp (L)	2.0	℃
Carrier Gas(BP)	3.20E+2	kPa			

Tune Report

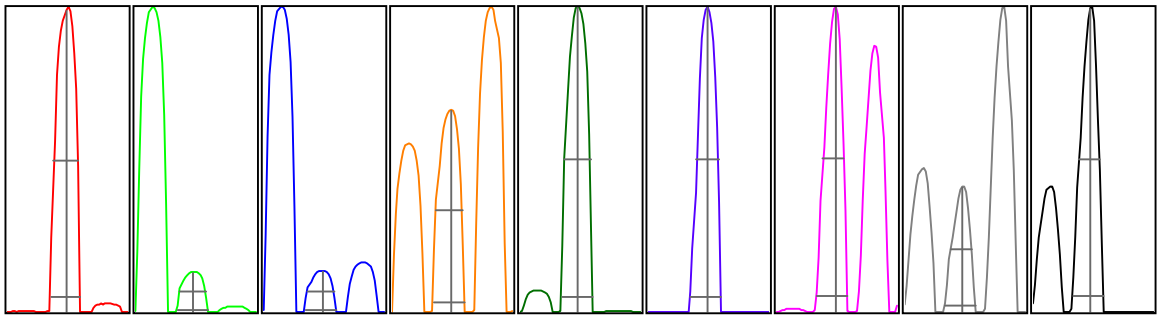
Batch Folder	C:\Agilent\ICPMH\1\DATA\112814ICPMS8B.b
Acq. Date-Time	2014-11-28 19:12
Report Comment	
Instrument Name	G8403A JP14080166

[No Gas]

Mass	RSD % (Actual)	RSD % (Required)	RSD % (Flag)
9	2.19	5.00	
24	0.94	5.00	
25	1.50	5.00	
26	1.04	5.00	
59	1.48	5.00	
115	1.12	5.00	
206	1.56	5.00	
207	1.26	5.00	
208	1.36	5.00	

Mass	Rep. 1 Count	Rep. 2 Count	Rep. 3 Count	Rep. 4 Count	Rep. 5 Count
9	5334	5595	5521	5325	5496
24	43413	43980	44177	43314	43303
25	5949	6020	6103	5936	5868
26	7070	7148	7249	7095	7079
59	103974	105968	105440	102018	104015
115	161179	164191	164662	161074	161126
206	31311	32147	32018	30963	31496
207	27013	27401	27276	26535	26895
208	65224	66166	66883	64733	65048

Integration Time [sec] 0.1



Mass	Peak Height	Axis (Actual)	Axis (Required)	Axis (Flag)	W-50 %	W-5 % (Actual)	W-5 % (Required)	W-5 % (Flag)
9	941.41	9.00	8.9 - 9.1		0.61	0.735	0.850	
24	7220.69	23.95	23.9 - 24.1		0.63	0.778	0.850	
25	980.69	25.00	24.9 - 25.1		0.64	0.786	0.850	
26	1183.69	26.00	25.9 - 26.1		0.63	0.785	0.850	
59	17879.38	58.95	58.9 - 59.1		0.61	0.779	0.850	
115	30924.23	115.00	114.9 - 115.1		0.54	0.755	0.850	
206	6304.25	206.00	205.9 - 206.1		0.52	0.751	0.850	
207	5492.14	206.95	206.9 - 207.1		0.52	0.752	0.850	
208	13324.88	207.95	207.9 - 208.1		0.51	0.766	0.850	

Tune Report

Integration Time [sec] 0.1 **Acquisition Time [sec]** 212.5 **Y Axis** Linear

Tune Parameters
Plasma Paramters

RF Power	1550 W	Nebulizer Pump	0.10 rps
RF Matching	1.60 V	S/C Temp	2 ℃
Smpl Depth	10.0 mm	Gas Switch	Dilution Gas
Carrier Gas	0.75 L/min	Makeup/Dilution Gas	0.35 L/min
Option Gas	0.0 %		

Lenses Parameters

Extract 1	0.0 V	Cell Entrance	-30 V
Extract 2	-200.0 V	Cell Exit	-52 V
Omega Bias	-80 V	Deflect	15.4 V
Omega Lens	8.8 V	Plate Bias	-40 V

Cell Parameters

Use Gas	false	OctP Bias	-8.0 V
He Flow	0.0 mL/min	OctP RF	150 V
H2 Flow	0.0 mL/min	Energy Discrimination	5.0 V
3rd Gas Flow	0 %		

Calibration Blank Report

Sample Name	CALBLK 14K05174
File Name	001CALB.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\112814ICPMS8B.b
Acq Time	2014-11-28 19:16:30
Sample Type	CalBlk
Total Dilution	1.0000
Comment	---
ISTD Ref FileName	001CALB.d
Sample QC Pass/Fial	Pass
ISTD QC Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD	Tune Mode	CPS	CPS RSD
B	11	45	No Gas	1076.04	2.25
Se	82	72	No Gas	990.04	1.47
Na	23	45	He	11968.35	4.30
Mg	24	45	He	383.34	17.76
Al	27	45	He	30.00	33.33
K	39	45	He	5367.75	4.25
Ca	43	45	He	9.67	11.95
Ti	47	45	He	3.33	173.21
V	51	45	He	16.67	124.90
Cr	52	45	He	753.37	22.46
Mn	55	72	He	80.00	57.28
Fe	56	72	He	5094.31	2.97
Co	59	72	He	186.67	21.65
Ni	60	72	He	43.33	53.29
Cu	63	72	He	280.01	17.86
Zn	66	72	He	786.70	5.87
As	75	72	He	2.22	91.62
Se	78	72	He	4.67	24.74
Sr	88	72	He	123.34	55.19
Mo	95	72	He	6.67	86.60
Ag	107	103	He	26.67	21.65
Cd	111	103	He	2.67	86.60
Sn	118	103	He	226.67	37.00
Sb	121	103	He	93.33	24.74
Ba	137	103	He	23.33	49.49
Tl	205	175	He	110.00	15.75
Pb	208	175	He	976.70	13.75
U	238	175	He	716.70	8.53

QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD
Sc (No He)	45	No Gas	1786932.63	0.63
Ge (No He)	72	No Gas	491075.80	0.41
Sc	45	He	19446.29	0.95

Calibration Blank Report

Name	Mass	Tune Mode	CPS	CPS RSD
Ge	72	He	21065.48	0.48
Rh	103	He	873163.84	0.89
Lu	175	He	442524.84	0.87

Calibration Standard Report

Sample Name	STD1 14K05175
File Name	002CALS.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\112814ICPMS8B.b
Acq Time	2014-11-28 19:18:14
Sample Type	CalStd
Total Dilution	1.0000
Comment	---
ISTD Ref FileName	001CALB.d
Sample QC Pass/Fial	Pass
ISTD QC Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD	Tune Mode	CPS	CPS RSD
B	11	45	No Gas	1912.79	2.20
Se	82	72	No Gas	1103.38	10.39
Be	9	45	He	12.33	33.76
Na	23	45	He	26443.90	5.47
Mg	24	45	He	7035.15	9.61
Al	27	45	He	220.01	19.81
K	39	45	He	9596.60	2.25
Ca	43	45	He	26.67	26.34
Ti	47	45	He	43.33	35.25
V	51	45	He	1316.76	15.96
Cr	52	45	He	2423.58	8.43
Mn	55	72	He	620.03	12.60
Fe	56	72	He	16399.61	11.40
Co	59	72	He	3880.60	10.80
Ni	60	72	He	1303.42	13.12
Cu	63	72	He	3740.56	6.97
Zn	66	72	He	780.04	3.39
As	75	72	He	198.67	4.40
Se	78	72	He	9.33	12.37
Sr	88	72	He	726.70	5.73
Mo	95	72	He	1376.76	12.63
Ag	107	103	He	5744.61	8.90
Cd	111	103	He	532.01	14.66
Sn	118	103	He	983.38	19.89
Sb	121	103	He	1263.42	11.09
Ba	137	103	He	396.68	10.19
Tl	205	175	He	12462.79	6.15
Pb	208	175	He	15827.43	8.75
U	238	175	He	15626.45	9.38

QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc (No He)	45	No Gas	1828520.96	0.77	1786932.63	102.33	60	120	
Ge (No He)	72	No Gas	498512.31	0.47	491075.8	101.51	60	120	

Calibration Standard Report

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc	45	He	19074.71	1.65	19446.29	98.09	60	120	
Ge	72	He	21613.03	1.34	21065.48	102.6	60	120	
Rh	103	He	891429.07	1.25	873163.84	102.09	60	120	
Lu	175	He	453805.90	1.18	442524.836666667	102.55	60	120	

Calibration Standard Report

Sample Name	STD2 14K05175
File Name	003CALS.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\112814ICPMS8B.b
Acq Time	2014-11-28 19:19:58
Sample Type	CalStd
Total Dilution	1.0000
Comment	---
ISTD Ref FileName	001CALB.d
Sample QC Pass/Fial	Pass
ISTD QC Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD	Tune Mode	CPS	CPS RSD
B	11	45	No Gas	2856.28	5.64
Se	82	72	No Gas	1481.20	6.21
Be	9	45	He	23.33	4.95
Na	23	45	He	41702.38	2.24
Mg	24	45	He	14006.97	10.01
Al	27	45	He	353.34	20.08
K	39	45	He	13653.25	6.90
Ca	43	45	He	32.67	24.93
Ti	47	45	He	53.33	28.64
V	51	45	He	2696.97	6.74
Cr	52	45	He	4377.39	5.81
Mn	55	72	He	1150.07	4.35
Fe	56	72	He	28765.68	8.62
Co	59	72	He	7969.03	10.00
Ni	60	72	He	2536.94	15.52
Cu	63	72	He	6941.79	6.00
Zn	66	72	He	800.04	6.62
As	75	72	He	432.45	15.11
Se	78	72	He	17.67	48.14
Sr	88	72	He	1233.41	9.33
Mo	95	72	He	2520.27	4.97
Ag	107	103	He	11541.55	3.85
Cd	111	103	He	1064.71	9.40
Sn	118	103	He	1833.49	6.28
Sb	121	103	He	2430.26	11.10
Ba	137	103	He	666.70	3.78
Tl	205	175	He	24189.29	3.32
Pb	208	175	He	30965.08	5.97
U	238	175	He	30707.31	11.27

QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc (No He)	45	No Gas	1839556.80	1.01	1786932.63	102.94	60	120	
Ge (No He)	72	No Gas	500986.50	0.53	491075.8	102.02	60	120	

Calibration Standard Report

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc	45	He	18906.73	4.57	19446.29	97.23	60	120	
Ge	72	He	20893.02	3.64	21065.48	99.18	60	120	
Rh	103	He	870737.33	3.00	873163.84	99.72	60	120	
Lu	175	He	445682.33	2.81	442524.836666667	100.71	60	120	

Calibration Standard Report

Sample Name	STD3 14K05175
File Name	004CALS.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\112814ICPMS8B.b
Acq Time	2014-11-28 19:21:57
Sample Type	CalStd
Total Dilution	1.0000
Comment	---
ISTD Ref FileName	001CALB.d
Sample QC Pass/Fial	Pass
ISTD QC Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD	Tune Mode	CPS	CPS RSD
B	11	45	No Gas	9398.31	6.36
Se	82	72	No Gas	3211.50	3.45
Be	9	45	He	121.00	2.86
Na	23	45	He	152605.65	7.43
Mg	24	45	He	64026.32	10.94
Al	27	45	He	1513.44	15.03
K	39	45	He	44962.89	5.30
Ca	43	45	He	133.00	3.45
Ti	47	45	He	170.00	10.19
V	51	45	He	11871.79	8.28
Cr	52	45	He	16753.30	9.33
Mn	55	72	He	5291.06	8.84
Fe	56	72	He	119542.18	12.97
Co	59	72	He	35096.46	9.42
Ni	60	72	He	10514.07	10.97
Cu	63	72	He	31341.28	10.03
Zn	66	72	He	3403.82	17.02
As	75	72	He	1776.56	13.20
Se	78	72	He	56.67	18.03
Sr	88	72	He	5544.52	9.36
Mo	95	72	He	12035.44	12.55
Ag	107	103	He	51973.73	7.83
Cd	111	103	He	4782.83	9.24
Sn	118	103	He	8923.02	13.85
Sb	121	103	He	10801.05	5.91
Ba	137	103	He	3607.22	9.86
Tl	205	175	He	112512.45	5.95
Pb	208	175	He	139992.66	9.82
U	238	175	He	142060.65	12.08

QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc (No He)	45	No Gas	1762027.47	3.02	1786932.63	98.61	60	120	
Ge (No He)	72	No Gas	485974.50	3.73	491075.8	98.96	60	120	

Calibration Standard Report

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc	45	He	18272.54	1.30	19446.29	93.96	60	120	
Ge	72	He	20127.49	0.96	21065.48	95.55	60	120	
Rh	103	He	845496.14	0.90	873163.84	96.83	60	120	
Lu	175	He	437034.21	1.20	442524.836666667	98.76	60	120	

Calibration Standard Report

Sample Name	STD4 14K05175
File Name	005CALS.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\112814ICPMS8B.b
Acq Time	2014-11-28 19:23:41
Sample Type	CalStd
Total Dilution	1.0000
Comment	---
ISTD Ref FileName	001CALB.d
Sample QC Pass/Fial	Pass
ISTD QC Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD	Tune Mode	CPS	CPS RSD
B	11	45	No Gas	46201.61	0.76
Se	82	72	No Gas	13131.64	1.28
Be	9	45	He	695.68	9.75
Na	23	45	He	787336.79	5.95
Mg	24	45	He	346267.44	8.48
Al	27	45	He	7642.10	6.32
K	39	45	He	219435.45	3.64
Ca	43	45	He	738.69	8.01
Ti	47	45	He	1106.73	12.34
V	51	45	He	65752.42	8.50
Cr	52	45	He	88034.24	9.25
Mn	55	72	He	28605.26	7.57
Fe	56	72	He	627887.80	10.14
Co	59	72	He	194068.66	8.12
Ni	60	72	He	58003.79	9.70
Cu	63	72	He	168995.97	7.89
Zn	66	72	He	15562.01	7.87
As	75	72	He	9813.60	8.22
Se	78	72	He	322.67	2.88
Sr	88	72	He	29247.31	8.60
Mo	95	72	He	66205.67	8.44
Ag	107	103	He	283894.18	4.90
Cd	111	103	He	25835.92	8.66
Sn	118	103	He	47779.45	9.18
Sb	121	103	He	59139.81	7.07
Ba	137	103	He	18382.65	7.90
Tl	205	175	He	612587.53	5.46
Pb	208	175	He	758275.66	7.68
U	238	175	He	780339.39	10.53

QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc (No He)	45	No Gas	1864856.90	0.52	1786932.63	104.36	60	120	
Ge (No He)	72	No Gas	509319.04	0.23	491075.8	103.71	60	120	

Calibration Standard Report

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc	45	He	19326.12	1.46	19446.29	99.38	60	120	
Ge	72	He	21379.28	0.23	21065.48	101.49	60	120	
Rh	103	He	901190.40	0.40	873163.84	103.21	60	120	
Lu	175	He	469119.85	0.96	442524.836666667	106.01	60	120	

Calibration Standard Report

Sample Name	STD5 14K05175
File Name	006CALS.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\112814ICPMS8B.b
Acq Time	2014-11-28 19:25:24
Sample Type	CalStd
Total Dilution	1.0000
Comment	---
ISTD Ref FileName	001CALB.d
Sample QC Pass/Fial	Pass
ISTD QC Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD	Tune Mode	CPS	CPS RSD
B	11	45	No Gas	90963.12	1.99
Se	82	72	No Gas	25177.79	0.44
Be	9	45	He	1340.73	8.84
Na	23	45	He	1614221.85	4.59
Mg	24	45	He	704149.01	8.62
Al	27	45	He	15885.50	9.50
K	39	45	He	438808.21	3.14
Ca	43	45	He	1560.42	9.05
Ti	47	45	He	2423.58	10.90
V	51	45	He	132721.77	9.32
Cr	52	45	He	178182.46	9.63
Mn	55	72	He	57310.60	9.09
Fe	56	72	He	1274672.14	9.25
Co	59	72	He	392981.57	8.24
Ni	60	72	He	117037.03	9.25
Cu	63	72	He	339583.96	8.75
Zn	66	72	He	31321.16	5.84
As	75	72	He	19895.60	7.34
Se	78	72	He	591.34	4.50
Sr	88	72	He	59739.72	7.37
Mo	95	72	He	135387.96	9.08
Ag	107	103	He	570422.72	4.96
Cd	111	103	He	52849.73	8.26
Sn	118	103	He	95941.42	9.26
Sb	121	103	He	120323.25	6.90
Ba	137	103	He	39059.66	9.04
Tl	205	175	He	1226496.96	3.09
Pb	208	175	He	1541567.83	7.38
U	238	175	He	1589186.02	10.13

QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc (No He)	45	No Gas	1864198.62	0.82	1786932.63	104.32	60	120	
Ge (No He)	72	No Gas	503299.00	1.57	491075.8	102.49	60	120	

Calibration Standard Report

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc	45	He	19643.22	1.04	19446.29	101.01	60	120	
Ge	72	He	21637.44	1.03	21065.48	102.72	60	120	
Rh	103	He	896863.81	1.19	873163.84	102.71	60	120	
Lu	175	He	465721.20	1.56	442524.836666667	105.24	60	120	

Calibration Standard Report

Sample Name	STD6 14K05175
File Name	007CALS.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\112814ICPMS8B.b
Acq Time	2014-11-28 19:27:05
Sample Type	CalStd
Total Dilution	1.0000
Comment	---
ISTD Ref FileName	001CALB.d
Sample QC Pass/Fial	Pass
ISTD QC Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD	Tune Mode	CPS	CPS RSD
B	11	45	No Gas	183011.52	1.23
Se	82	72	No Gas	49326.02	0.77
Be	9	45	He	2748.92	6.60
Na	23	45	He	3115151.00	3.28
Mg	24	45	He	1421606.59	5.95
Al	27	45	He	31744.60	7.79
K	39	45	He	877343.53	2.76
Ca	43	45	He	3056.66	6.32
Ti	47	45	He	4680.84	11.82
V	51	45	He	266352.56	5.90
Cr	52	45	He	358242.23	7.66
Mn	55	72	He	116890.08	6.39
Fe	56	72	He	2628112.09	6.27
Co	59	72	He	784681.29	6.29
Ni	60	72	He	233147.24	6.14
Cu	63	72	He	680701.08	6.13
Zn	66	72	He	61856.70	6.51
As	75	72	He	39988.92	5.29
Se	78	72	He	1255.06	6.83
Sr	88	72	He	122480.40	5.71
Mo	95	72	He	272128.61	6.05
Ag	107	103	He	1111502.66	7.65
Cd	111	103	He	105454.00	6.51
Sn	118	103	He	193337.58	7.58
Sb	121	103	He	239579.86	4.59
Ba	137	103	He	78749.34	5.94
Tl	205	175	He	2540940.95	1.88
Pb	208	175	He	3091124.99	4.98
U	238	175	He	3349893.39	7.82

QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc (No He)	45	No Gas	1850241.54	0.24	1786932.63	103.54	60	120	
Ge (No He)	72	No Gas	508135.39	0.54	491075.8	103.47	60	120	

Calibration Standard Report

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc	45	He	19625.43	0.38	19446.29	100.92	60	120	
Ge	72	He	21722.05	0.73	21065.48	103.12	60	120	
Rh	103	He	892077.46	0.61	873163.84	102.17	60	120	
Lu	175	He	466881.65	0.36	442524.836666667	105.5	60	120	

Initial Calibration Verification (ICV) Report

Sample Name	ICV 14K05178
File Name	008_ICV.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\112814ICPMS8B.b
Acq Time	2014-11-28 19:28:45
Sample Type	ICV
Total Dilution	1.0000
Comment	---
ISTD Ref FileName	001CALB.d
Sample QC Pass/Fial	Fail
ISTD QC Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD	Tune Mode	Conc.	Conc. RSD	CPS	ExpValue	% Rec	%QC Low	%QC High	QC Flag
B	10	45	No Gas	0.102	2.18	19852.48	0.9	11.38	10	10	
B	11	45	No Gas	0.101	2.12	94774.25	0.9	11.23	10	10	
Se	82	72	No Gas	0.100	3.25	25152.18	0.9	11.06	10	10	
Be	9	45	He	0.105	6.10	1401.07	0.9	11.65	10	10	
Na	23	45	He	10.529	2.57	1617296.90	0.9	1169.91	1000	1000	
Mg	24	45	He	10.534	2.60	729262.15	0.9	1170.45	1000	1000	
Al	27	45	He	1.116	6.65	17270.32	0.9	124.01	100	100	ICV Main CR1 Failed
K	39	45	He	10.206	2.12	439125.80	0.9	1134.02	1000	1000	
Ca	43	45	He	10.097	2.19	1514.08	0.9	1121.84	1000	1000	
Ti	47	45	He	0.111	5.98	2546.93	0.9	12.31	10	10	ICV Main CR1 Failed
V	51	45	He	0.106	2.31	137230.63	0.9	11.73	10	10	
Cr	52	45	He	0.108	3.37	188295.77	0.9	11.97	10	10	
Mn	55	72	He	0.105	2.03	60101.42	0.9	11.7	10	10	
Fe	56	72	He	1.037	1.04	1327146.98	0.9	115.23	100	100	
Co	59	72	He	0.106	1.00	409082.17	0.9	11.82	10	10	
Ni	60	72	He	0.106	1.39	120976.30	0.9	11.75	10	10	
Cu	63	72	He	0.106	2.87	354569.34	0.9	11.81	10	10	
Zn	66	72	He	0.107	4.22	32904.63	0.9	11.94	10	10	
As	75	72	He	0.104	1.69	20406.06	0.9	11.59	10	10	
Se	78	72	He	0.106	5.85	644.02	0.9	11.73	10	10	
Sr	88	72	He	0.105	1.40	62896.07	0.9	11.71	10	10	
Mo	95	72	He	0.105	2.73	140191.03	0.9	11.7	10	10	
Ag	107	103	He	0.104	0.42	579322.60	0.9	11.57	10	10	
Cd	111	103	He	0.104	0.64	54610.01	0.9	11.57	10	10	
Sn	118	103	He	0.105	1.22	100844.41	0.9	11.66	10	10	
Sb	121	103	He	0.103	0.99	122702.97	0.9	11.43	10	10	
Ba	137	103	He	0.103	1.27	40349.66	0.9	11.49	10	10	
Tl	205	175	He	0.100	0.94	1252245.19	0.9	11.16	10	10	
Pb	208	175	He	0.105	0.82	1608462.45	0.9	11.7	10	10	
U	238	175	He	0.103	1.02	1679706.74	0.9	11.4	10	10	

QC ISTD Table

Initial Calibration Verification (ICV) Report

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc (No He)	45	No Gas	1894525.81	2.17	1786932.63	106.02	60	120	
Ge (No He)	72	No Gas	509172.22	0.61	491075.8	103.69	60	120	
Sc	45	He	19171.54	4.06	19446.29	98.59	60	120	
Ge	72	He	21270.22	1.85	21065.48	100.97	60	120	
Rh	103	He	889138.37	2.85	873163.84	101.83	60	120	
Lu	175	He	462007.34	2.44	442524.836666667	104.4	60	120	

Initial Calibration Blank (ICB) Report

Sample Name	ICB 14K05174
File Name	009_ICB.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\112814ICPMS8B.b
Acq Time	2014-11-28 19:30:24
Sample Type	ICB
Total Dilution	1.0000
Comment	---
ISTD Ref FileName	001CALB.d
Sample QC Pass/Fial	Pass
ISTD QC Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD	Tune Mode	Conc.	Conc. RSD	CPS	Limit	QC Flag
B	10	45	No Gas	0.005	5.27	1080.04	0.015	
B	11	45	No Gas	0.005	2.01	5290.95	0.015	
Se	82	72	No Gas	0.000	227.75	1038.93	0.00075	
Be	9	45	He	0.000	6149.37	0.67	0.00075	
Na	23	45	He	0.000	N/A	11764.88	0.75	
Mg	24	45	He	-0.001	N/A	316.68	0.75	
Al	27	45	He	0.000	165.50	36.67	0.0375	
K	39	45	He	-0.003	N/A	5151.02	0.75	
Ca	43	45	He	-0.015	N/A	7.33	0.75	
Ti	47	45	He	0.000	N/A	0.00	0.0075	
V	51	45	He	0.000	33.33	70.00	0.0015	
Cr	52	45	He	0.000	41.03	870.05	0.00075	
Mn	55	72	He	0.000	N/A	46.67	0.0015	
Fe	56	72	He	0.000	40.50	5647.89	0.0375	
Co	59	72	He	0.000	N/A	126.67	0.00075	
Ni	60	72	He	0.000	17.13	123.33	0.00075	
Cu	63	72	He	0.000	N/A	263.34	0.0015	
Zn	66	72	He	0.000	N/A	700.03	0.0075	
As	75	72	He	0.000	35.41	10.22	0.00075	
Se	78	72	He	0.000	N/A	4.33	0.00075	
Sr	88	72	He	0.000	317.33	133.33	0.0075	
Mo	95	72	He	0.000	146.35	26.67	0.0015	
Ag	107	103	He	0.000	5.10	1413.43	0.000375	
Cd	111	103	He	0.000	31.08	31.33	0.000375	
Sn	118	103	He	0.000	128.83	296.68	0.00075	
Sb	121	103	He	0.000	5.14	576.69	0.00075	
Ba	137	103	He	0.000	286.06	30.00	0.0015	
Tl	205	175	He	0.000	31.38	593.36	0.00075	
Pb	208	175	He	0.000	20.04	1436.72	0.00075	
U	238	175	He	0.000	N/A	600.03	0.0075	

QC ISTD Table

Initial Calibration Blank (ICB) Report

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc (No He)	45	No Gas	1819109.97	0.68	1786932.63	101.8	60	120	
Ge (No He)	72	No Gas	501148.66	0.73	491075.8	102.05	60	120	
Sc	45	He	19197.08	0.73	19446.29	98.72	60	120	
Ge	72	He	21430.47	1.96	21065.48	101.73	60	120	
Rh	103	He	899071.94	0.46	873163.84	102.97	60	120	
Lu	175	He	460403.52	1.41	442524.836666667	104.04	60	120	

Low Level Initial Calibration Verification(LLICV) Report

Sample Name	LLICV 14K05179
File Name	010LICV.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\112814ICPMS8B.b
Acq Time	2014-11-28 19:32:05
Sample Type	LLICV
Total Dilution	1.0000
Comment	---
ISTD Ref FileName	001CALB.d
Sample QC Pass/Fial	Fail
ISTD QC Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD	Tune Mode	Conc.	Conc. RSD	CPS	ExpValue	% Rec	%QC Low	%QC High	QC Flag
Be	9	45	He	0.001	10.23	12.33	0.001	86.74	70	130	
V	51	45	He	0.002	4.84	2927.01	0.002	111.21	70	130	
Cr	52	45	He	0.001	3.33	2603.61	0.001	105.68	70	130	
Mn	55	72	He	0.002	7.84	1270.08	0.002	104.97	70	130	
Co	59	72	He	0.001	7.07	4310.73	0.001	107.82	70	130	
Ni	60	72	He	0.001	5.22	1566.79	0.001	133.9	70	130	LLICV Main CR1 Failed
Cu	63	72	He	0.001	10.03	4137.34	0.001	116.17	70	130	
Zn	66	72	He	0.009	7.94	3467.15	0.01	90.08	70	130	
As	75	72	He	0.001	6.13	212.89	0.001	108.14	70	130	
Se	78	72	He	0.001	62.44	12.00	0.001	121.04	70	130	
Mo	95	72	He	0.002	6.47	2746.98	0.002	103.41	70	130	
Ag	107	103	He	0.001	5.34	3187.09	0.0005	112.18	70	130	
Cd	111	103	He	0.000	9.54	263.33	0.0005	98.19	70	130	
Sn	118	103	He	0.001	10.13	1073.39	0.001	86.49	70	130	
Sb	121	103	He	0.001	8.08	1620.13	0.001	126.27	70	130	
Ba	137	103	He	0.002	15.40	793.37	0.002	97.45	70	130	
Tl	205	175	He	0.001	0.90	12639.67	0.001	100.37	70	130	
Pb	208	175	He	0.001	3.38	16614.54	0.001	102.03	70	130	

QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc (No He)	45	No Gas	1864907.58	0.93	1786932.63	104.36	60	120	
Ge (No He)	72	No Gas	507871.14	0.28	491075.8	103.42	60	120	
Sc	45	He	19303.89	1.95	19446.29	99.27	60	120	
Ge	72	He	21167.87	1.14	21065.48	100.49	60	120	
Rh	103	He	900217.12	0.90	873163.84	103.1	60	120	
Lu	175	He	462327.62	0.71	442524.836666667	104.47	60	120	

Interference Check Solution A (ICS-A) Report

Sample Name	ICSA 14K05180
File Name	011ICSA.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\112814ICPMS8B.b
Acq Time	2014-11-28 19:33:52
Sample Type	ICSA
Total Dilution	1.0000
Comment	---
ISTD Ref FileName	001CALB.d
Sample QC Pass/Fial	Pass
ISTD QC Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD	Tune Mode	Conc.	Conc. RSD	CPS	ExpValue	%QC Low	%QC High	QC Flag
Na	23	45	He	98.623	2.24	14679258.11	0.8	10000	10000	
Mg	24	45	He	99.044	1.88	6684534.48	0.8	10000	10000	
Al	27	45	He	106.389	3.90	1604365.86	0.8	10000	10000	
K	39	45	He	97.866	1.46	4062091.19	0.8	10000	10000	
Ca	43	45	He	90.938	1.28	13223.29	0.8	10000	10000	
Ti	47	45	He	2.073	1.37	46360.41	0.8	200	200	
Fe	56	72	He	99.574	2.99	123806224.82	0.8	10000	10000	
Mo	95	72	He	2.087	2.64	2709093.19	0.8	200	200	

QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc (No He)	45	No Gas	1794498.51	0.73	1786932.63	100.42	60	120	
Ge (No He)	72	No Gas	497190.48	0.43	491075.8	101.25	60	120	
Sc	45	He	18688.65	0.82	19446.29	96.1	60	120	
Ge	72	He	20750.59	1.33	21065.48	98.51	60	120	
Rh	103	He	830103.81	0.42	873163.84	95.07	60	120	
Lu	175	He	451298.00	0.78	442524.836666667	101.98	60	120	

Interference Check Solution AB (ICS-AB) Report

Sample Name	ICSAB 14K05181
File Name	012ICSB.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\112814ICPMS8B.b
Acq Time	2014-11-28 19:36:25
Sample Type	ICSB
Total Dilution	1.0000
Comment	---
ISTD Ref FileName	001CALB.d
Sample QC Pass/Fial	Pass
ISTD QC Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD	Tune Mode	Conc.	Conc. RSD	CPS	ExpValue	%QC Low	%QC High	QC Flag

QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc (No He)	45	No Gas	1681687.89	0.59	1786932.63	94.11	60	120	
Ge (No He)	72	No Gas	467982.71	0.94	491075.8	95.3	60	120	
Sc	45	He	18512.87	2.83	19446.29	95.2	60	120	
Ge	72	He	20453.49	1.98	21065.48	97.09	60	120	
Rh	103	He	814512.05	0.87	873163.84	93.28	60	120	
Lu	175	He	444287.12	0.41	442524.836666667	100.4	60	120	

Low Level Initial Calibration Verification(LLICV) Report

Sample Name	LLICV 14K05179
File Name	015LICV.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\112814ICPMS8B.b
Acq Time	2014-11-28 19:40:58
Sample Type	LLICV
Total Dilution	1.0000
Comment	---
ISTD Ref FileName	001CALB.d
Sample QC Pass/Fial	Fail
ISTD QC Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD	Tune Mode	Conc.	Conc. RSD	CPS	ExpValue	% Rec	%QC Low	%QC High	QC Flag
Be	9	45	He	0.001	77.10	9.00	0.001	68.21	70	130	LLICV Main CR1 Failed
V	51	45	He	0.002	9.09	2456.92	0.002	102.55	70	130	
Cr	52	45	He	0.001	7.03	2496.93	0.001	113.93	70	130	
Mn	55	72	He	0.002	10.71	1136.74	0.002	101.96	70	130	
Co	59	72	He	0.001	4.60	3843.91	0.001	104.16	70	130	
Ni	60	72	He	0.001	8.52	1156.73	0.001	106.57	70	130	
Cu	63	72	He	0.001	5.78	3570.51	0.001	108.46	70	130	
Zn	66	72	He	0.009	5.80	3127.07	0.01	87.66	70	130	
As	75	72	He	0.001	5.04	193.78	0.001	106.87	70	130	
Se	78	72	He	0.001	111.48	9.67	0.001	95.14	70	130	
Mo	95	72	He	0.002	6.83	2523.61	0.002	103.14	70	130	
Ag	107	103	He	0.001	10.21	2636.97	0.0005	100.6	70	130	
Cd	111	103	He	0.001	1.45	250.00	0.0005	101.18	70	130	
Sn	118	103	He	0.001	8.02	970.05	0.001	84.37	70	130	
Sb	121	103	He	0.001	10.95	1300.09	0.001	108.94	70	130	
Ba	137	103	He	0.002	4.02	756.70	0.002	101.02	70	130	
Tl	205	175	He	0.001	2.73	11425.16	0.001	100.23	70	130	
Pb	208	175	He	0.001	1.16	15473.77	0.001	105.2	70	130	

QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc (No He)	45	No Gas	1686601.49	1.42	1786932.63	94.39	60	120	
Ge (No He)	72	No Gas	463449.18	1.34	491075.8	94.37	60	120	
Sc	45	He	17547.23	1.25	19446.29	90.23	60	120	
Ge	72	He	19485.50	2.48	21065.48	92.5	60	120	
Rh	103	He	829353.29	0.67	873163.84	94.98	60	120	
Lu	175	He	418457.20	1.49	442524.836666667	94.56	60	120	

Continuing Calibration Verification (CCV) Report

Sample Name	CCV 14K05175
File Name	056_CCV.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\112814ICPMS8B.b
Acq Time	2014-11-28 20:44:52
Sample Type	CCV
Total Dilution	1.0000
Comment	---
ISTD Ref FileName	001CALB.d
Sample QC Pass/Fial	Pass
ISTD QC Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD	Tune Mode	Conc.	Conc. RSD	CPS	ExpValue	% Rec	%QC Low	%QC High	QC Flag
B	10	45	No Gas	0.097	3.13	18460.70	0.9	10.8	10	10	
B	11	45	No Gas	0.097	2.38	88737.34	0.9	10.73	10	10	
Se	82	72	No Gas	0.100	0.70	25259.05	0.9	11.14	10	10	
Be	9	45	He	0.107	3.76	1404.07	0.9	11.91	10	10	
Na	23	45	He	10.792	1.07	1624948.42	0.9	1199.15	1000	1000	
Mg	24	45	He	10.561	1.57	716720.75	0.9	1173.48	1000	1000	
Al	27	45	He	1.064	0.40	16159.10	0.9	118.24	100	100	
K	39	45	He	10.052	0.78	424024.90	0.9	1116.89	1000	1000	
Ca	43	45	He	10.239	4.80	1504.08	0.9	1137.64	1000	1000	
Ti	47	45	He	0.109	4.97	2443.59	0.9	12.06	10	10	
V	51	45	He	0.105	0.91	133915.39	0.9	11.68	10	10	
Cr	52	45	He	0.107	1.82	184101.56	0.9	11.94	10	10	
Mn	55	72	He	0.104	2.47	57832.14	0.9	11.55	10	10	
Fe	56	72	He	1.044	0.43	1303645.73	0.9	116.05	100	100	
Co	59	72	He	0.108	0.79	404959.46	0.9	11.99	10	10	
Ni	60	72	He	0.106	0.67	118703.97	0.9	11.82	10	10	
Cu	63	72	He	0.109	0.26	354732.99	0.9	12.12	10	10	
Zn	66	72	He	0.108	1.25	32142.83	0.9	11.96	10	10	
As	75	72	He	0.105	0.67	20025.95	0.9	11.66	10	10	
Se	78	72	He	0.099	5.92	590.01	0.9	11	10	10	
Sr	88	72	He	0.103	1.52	59802.87	0.9	11.42	10	10	
Mo	95	72	He	0.107	0.84	138554.19	0.9	11.86	10	10	
Ag	107	103	He	0.104	1.11	578313.97	0.9	11.55	10	10	
Cd	111	103	He	0.102	1.70	53279.53	0.9	11.29	10	10	
Sn	118	103	He	0.101	1.06	96691.61	0.9	11.18	10	10	
Sb	121	103	He	0.101	0.52	120845.87	0.9	11.26	10	10	
Ba	137	103	He	0.100	2.08	38888.54	0.9	11.08	10	10	
Tl	205	175	He	0.102	0.10	1257707.51	0.9	11.37	10	10	
Pb	208	175	He	0.107	0.91	1614047.60	0.9	11.91	10	10	
U	238	175	He	0.105	1.47	1697001.75	0.9	11.69	10	10	

QC ISTD Table

Continuing Calibration Verification (CCV) Report

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc (No He)	45	No Gas	1854509.03	1.22	1786932.63	103.78	60	120	
Ge (No He)	72	No Gas	507765.63	0.53	491075.8	103.4	60	120	
Sc	45	He	18785.44	1.61	19446.29	96.6	60	120	
Ge	72	He	20746.13	0.60	21065.48	98.48	60	120	
Rh	103	He	889283.58	1.36	873163.84	101.85	60	120	
Lu	175	He	455227.01	0.10	442524.836666667	102.87	60	120	

Continuing Calibration Blank (CCB) Report

Sample Name	CCB 14K05174
File Name	057_CCB.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\112814ICPMS8B.b
Acq Time	2014-11-28 20:46:39
Sample Type	CCB
Total Dilution	1.0000
Comment	---
ISTD Ref FileName	001CALB.d
Sample QC Pass/Fial	Pass
ISTD QC Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD	Tune Mode	Conc.	Conc. RSD	CPS	Limit	QC Flag
B	10	45	No Gas	0.004	2.78	894.03	0.015	
B	11	45	No Gas	0.004	1.37	4239.28	0.015	
Se	82	72	No Gas	0.000	N/A	942.26	0.00075	
Be	9	45	He	0.000	1084.21	0.67	0.00075	
Na	23	45	He	0.052	5.52	18581.85	0.75	
Mg	24	45	He	0.003	33.81	536.68	0.75	
Al	27	45	He	-0.001	N/A	20.00	0.0375	
K	39	45	He	0.009	77.97	5334.41	0.75	
Ca	43	45	He	0.004	1607.04	9.33	0.75	
Ti	47	45	He	0.000	2117.23	3.33	0.0075	
V	51	45	He	0.000	27.44	66.67	0.0015	
Cr	52	45	He	0.000	79.34	800.04	0.00075	
Mn	55	72	He	0.000	N/A	76.67	0.0015	
Fe	56	72	He	0.001	22.75	5741.23	0.0375	
Co	59	72	He	0.000	N/A	126.67	0.00075	
Ni	60	72	He	0.000	37.69	153.33	0.00075	
Cu	63	72	He	0.000	113.37	333.34	0.0015	
Zn	66	72	He	0.000	N/A	643.36	0.0075	
As	75	72	He	0.000	35.76	11.11	0.00075	
Se	78	72	He	0.000	285.13	5.33	0.00075	
Sr	88	72	He	0.000	109.31	186.67	0.0075	
Mo	95	72	He	0.000	63.19	56.67	0.0015	
Ag	107	103	He	0.000	18.08	383.35	0.000375	
Cd	111	103	He	0.000	49.40	22.67	0.000375	
Sn	118	103	He	0.000	87.86	243.34	0.00075	
Sb	121	103	He	0.000	7.31	330.01	0.00075	
Ba	137	103	He	0.000	N/A	10.00	0.0015	
Tl	205	175	He	0.000	8.09	566.69	0.00075	
Pb	208	175	He	0.000	8.78	1410.05	0.00075	
U	238	175	He	0.000	222.44	763.37	0.0075	

QC ISTD Table

Continuing Calibration Blank (CCB) Report

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc (No He)	45	No Gas	1812036.85	0.45	1786932.63	101.4	60	120	
Ge (No He)	72	No Gas	495666.24	0.60	491075.8	100.93	60	120	
Sc	45	He	17991.12	2.03	19446.29	92.52	60	120	
Ge	72	He	20404.52	1.88	21065.48	96.86	60	120	
Rh	103	He	875567.48	0.56	873163.84	100.28	60	120	
Lu	175	He	442915.10	0.16	442524.836666667	100.09	60	120	

Sample Report

Sample Name	BLANK WG756921
File Name	058SMPL.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\112814ICPMS8B.b
Acq Time	2014-11-28 20:48:11
Sample Type	Sample
Total Dilution	1.1111
Comment	---
ISTD Ref FileName	001CALB.d
Sample QC Pass/Fial	Pass
ISTD QC Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD	Tune Mode	Conc.	Conc. RSD	CPS	LDR	QC Flag
B	10	45	No Gas	0.004	6.73	737.35	5	
B	11	45	No Gas	0.004	4.17	3568.43	5	
Se	82	72	No Gas	0.000	N/A	861.15	5	
Be	9	45	He	0.000	352.32	0.67	5	
Na	23	45	He	0.180	7.29	28153.77	90	
Mg	24	45	He	-0.001	N/A	223.34	90	
Al	27	45	He	0.001	181.00	36.67	90	
K	39	45	He	0.018	19.40	4600.80	90	
Ca	43	45	He	-0.010	N/A	6.33	90	
Ti	47	45	He	0.000	N/A	0.00	5	
V	51	45	He	0.000	62.25	123.33	5	
Cr	52	45	He	0.000	13.49	896.71	5	
Mn	55	72	He	0.000	24.46	226.67	5	
Fe	56	72	He	0.007	3.42	10367.25	90	
Co	59	72	He	0.000	N/A	66.67	5	
Ni	60	72	He	0.000	9.36	290.01	5	
Cu	63	72	He	0.002	1.94	3860.58	5	
Zn	66	72	He	-0.002	N/A	126.67	5	
As	75	72	He	0.000	11.97	36.45	5	
Se	78	72	He	0.000	134.93	5.67	5	
Sr	88	72	He	0.000	41.00	203.34	5	
Mo	95	72	He	0.000	24.88	66.67	5	
Ag	107	103	He	0.000	12.18	336.68	1	
Cd	111	103	He	0.000	32.82	9.33	5	
Sn	118	103	He	0.001	21.53	1170.07	2	
Sb	121	103	He	0.004	3.47	3617.20	1	
Ba	137	103	He	0.000	169.72	46.67	2	
Tl	205	175	He	0.000	83.55	123.33	5	
Pb	208	175	He	0.000	19.69	1786.75	5	
U	238	175	He	0.000	N/A	80.00	5	

QC ISTD Table

Sample Report

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc (No He)	45	No Gas	1517681.18	2.09	1786932.63	84.93	60	120	
Ge (No He)	72	No Gas	433491.52	0.11	491075.8	88.27	60	120	
Sc	45	He	14774.18	0.67	19446.29	75.97	60	120	
Ge	72	He	17113.60	0.88	21065.48	81.24	60	120	
Rh	103	He	752503.11	1.12	873163.84	86.18	60	120	
Lu	175	He	389502.68	1.33	442524.836666667	88.02	60	120	

Sample Report

Sample Name	LCS WG756921
File Name	059SMPL.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\112814ICPMS8B.b
Acq Time	2014-11-28 20:49:44
Sample Type	Sample
Total Dilution	1.1111
Comment	---
ISTD Ref FileName	001CALB.d
Sample QC Pass/Fial	Pass
ISTD QC Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD	Tune Mode	Conc.	Conc. RSD	CPS	LDR	QC Flag
B	10	45	No Gas	0.052	2.32	7589.94	5	
B	11	45	No Gas	0.051	1.62	35704.46	5	
Se	82	72	No Gas	0.045	1.08	10473.91	5	
Be	9	45	He	0.059	8.74	557.34	5	
Na	23	45	He	0.653	2.86	79556.56	90	
Mg	24	45	He	0.517	1.53	25582.38	90	
Al	27	45	He	0.066	26.14	743.37	90	
K	39	45	He	0.501	1.29	19202.85	90	
Ca	43	45	He	0.972	9.43	109.67	90	
Ti	47	45	He	0.053	9.61	860.04	5	
V	51	45	He	0.056	2.22	51240.52	5	
Cr	52	45	He	0.055	2.70	68052.29	5	
Mn	55	72	He	0.046	3.94	20735.15	5	
Fe	56	72	He	0.054	0.79	58029.61	90	
Co	59	72	He	0.051	1.50	155030.09	5	
Ni	60	72	He	0.051	4.76	45385.06	5	
Cu	63	72	He	0.053	1.49	138083.19	5	
Zn	66	72	He	0.048	2.76	12058.58	5	
As	75	72	He	0.049	0.83	7575.79	5	
Se	78	72	He	0.046	5.18	221.33	5	
Sr	88	72	He	0.046	0.55	21393.08	5	
Mo	95	72	He	0.051	1.33	52899.14	5	
Ag	107	103	He	0.053	1.46	227397.30	1	
Cd	111	103	He	0.052	0.52	21381.65	5	
Sn	118	103	He	0.048	1.20	35996.77	2	
Sb	121	103	He	0.054	0.76	50157.42	1	
Ba	137	103	He	0.049	4.70	14908.30	2	
Tl	205	175	He	0.054	1.72	524418.35	5	
Pb	208	175	He	0.057	1.22	679122.54	5	
U	238	175	He	0.000	N/A	36.67	5	

QC ISTD Table

Sample Report

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc (No He)	45	No Gas	1561124.30	0.86	1786932.63	87.36	60	120	
Ge (No He)	72	No Gas	488864.55	0.35	491075.8	99.55	60	120	
Sc	45	He	15043.34	1.53	19446.29	77.36	60	120	
Ge	72	He	18550.90	0.58	21065.48	88.06	60	120	
Rh	103	He	768487.96	0.26	873163.84	88.01	60	120	
Lu	175	He	398203.65	1.12	442524.836666667	89.98	60	120	

Sample Report

Sample Name	LCSD WG756921
File Name	060SMPL.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\112814ICPMS8B.b
Acq Time	2014-11-28 20:51:15
Sample Type	Sample
Total Dilution	1.1111
Comment	---
ISTD Ref FileName	001CALB.d
Sample QC Pass/Fial	Pass
ISTD QC Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD	Tune Mode	Conc.	Conc. RSD	CPS	LDR	QC Flag
B	10	45	No Gas	0.052	1.82	7531.24	5	
B	11	45	No Gas	0.051	2.27	35754.53	5	
Se	82	72	No Gas	0.046	1.99	10578.42	5	
Be	9	45	He	0.063	6.13	570.68	5	
Na	23	45	He	0.646	3.18	75512.29	90	
Mg	24	45	He	0.518	1.91	24547.24	90	
Al	27	45	He	0.070	19.90	753.36	90	
K	39	45	He	0.496	4.35	18251.64	90	
Ca	43	45	He	0.899	16.57	97.67	90	
Ti	47	45	He	0.050	4.41	783.37	5	
V	51	45	He	0.056	1.60	49096.51	5	
Cr	52	45	He	0.055	4.96	65825.51	5	
Mn	55	72	He	0.046	1.98	20992.09	5	
Fe	56	72	He	0.082	1.89	87399.23	90	
Co	59	72	He	0.050	2.50	151554.65	5	
Ni	60	72	He	0.049	3.90	44599.29	5	
Cu	63	72	He	0.051	2.63	135467.53	5	
Zn	66	72	He	0.047	1.66	11901.81	5	
As	75	72	He	0.047	2.06	7329.44	5	
Se	78	72	He	0.042	6.94	206.33	5	
Sr	88	72	He	0.045	5.15	21279.57	5	
Mo	95	72	He	0.049	1.47	51427.30	5	
Ag	107	103	He	0.052	0.65	221835.39	1	
Cd	111	103	He	0.052	0.94	20880.92	5	
Sn	118	103	He	0.048	1.60	35038.11	2	
Sb	121	103	He	0.055	1.20	50231.10	1	
Ba	137	103	He	0.050	3.83	14841.60	2	
Tl	205	175	He	0.054	1.29	517305.38	5	
Pb	208	175	He	0.057	1.25	669103.22	5	
U	238	175	He	0.000	N/A	46.67	5	

QC ISTD Table

Sample Report

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc (No He)	45	No Gas	1550599.51	1.81	1786932.63	86.77	60	120	
Ge (No He)	72	No Gas	484090.50	0.37	491075.8	98.58	60	120	
Sc	45	He	14412.73	2.52	19446.29	74.12	60	120	
Ge	72	He	18774.56	1.39	21065.48	89.12	60	120	
Rh	103	He	750627.13	1.25	873163.84	85.97	60	120	
Lu	175	He	393433.86	1.33	442524.836666667	88.91	60	120	

Sample Report

Sample Name	L734231-16 WG756921
File Name	061SMPL.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\112814ICPMS8B.b
Acq Time	2014-11-28 20:52:47
Sample Type	Sample
Total Dilution	5.5556
Comment	---
ISTD Ref FileName	001CALB.d
Sample QC Pass/Fial	Fail
ISTD QC Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD	Tune Mode	Conc.	Conc. RSD	CPS	LDR	QC Flag
B	10	45	No Gas	1.643	0.91	53763.27	5	
B	11	45	No Gas	1.622	0.72	256651.01	5	
Se	82	72	No Gas	0.008	36.44	1302.29	5	
Be	9	45	He	0.003	19.92	6.33	5	
Na	23	45	He	1719.900	1.68	42716042.70	90	>LDR
Mg	24	45	He	823.446	1.86	9277909.24	90	>LDR
Al	27	45	He	21.962	1.13	55320.36	90	
K	39	45	He	101.639	0.81	708218.64	90	
Ca	43	45	He	2821.673	1.05	68458.66	90	>LDR
Ti	47	45	He	0.639	4.22	2386.90	5	
V	51	45	He	0.064	2.40	13536.51	5	
Cr	52	45	He	0.026	4.47	8049.02	5	
Mn	55	72	He	1.037	0.22	94983.18	5	
Fe	56	72	He	23.603	1.19	4839325.86	90	
Co	59	72	He	0.013	2.91	8309.17	5	
Ni	60	72	He	0.020	8.88	3637.18	5	
Cu	63	72	He	0.021	3.79	11611.52	5	
Zn	66	72	He	0.062	5.73	3690.54	5	
As	75	72	He	0.011	4.72	333.34	5	
Se	78	72	He	0.012	42.40	16.00	5	
Sr	88	72	He	51.998	1.47	4975661.28	5	>LDR
Mo	95	72	He	0.336	1.91	71966.47	5	
Ag	107	103	He	0.000	28.97	333.34	1	
Cd	111	103	He	0.000	8.03	38.67	5	
Sn	118	103	He	0.003	27.29	680.03	2	
Sb	121	103	He	0.004	1.39	820.04	1	
Ba	137	103	He	1.007	0.50	62622.46	2	
Tl	205	175	He	0.001	12.59	1540.12	5	
Pb	208	175	He	0.022	0.23	58225.35	5	
U	238	175	He	0.065	1.40	185247.72	5	

QC ISTD Table

Sample Report

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc (No He)	45	No Gas	1789015.65	0.79	1786932.63	100.12	60	120	
Ge (No He)	72	No Gas	485632.94	0.88	491075.8	98.89	60	120	
Sc	45	He	17333.65	0.49	19446.29	89.14	60	120	
Ge	72	He	18987.05	0.50	21065.48	90.13	60	120	
Rh	103	He	787522.31	0.46	873163.84	90.19	60	120	
Lu	175	He	444866.03	1.00	442524.836666667	100.53	60	120	

Sample Report

Sample Name	SD L734231-16 WG756921
File Name	062SMPL.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\112814ICPMS8B.b
Acq Time	2014-11-28 20:54:17
Sample Type	Sample
Total Dilution	27.7778
Comment	---
ISTD Ref FileName	001CALB.d
Sample QC Pass/Fial	Fail
ISTD QC Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD	Tune Mode	Conc.	Conc. RSD	CPS	LDR	QC Flag
B	10	45	No Gas	1.793	2.31	12093.56	5	
B	11	45	No Gas	1.769	0.58	57749.51	5	
Se	82	72	No Gas	0.003	274.93	1045.60	5	
Be	9	45	He	0.002	210.29	1.33	5	
Na	23	45	He	1758.099	3.02	8872965.28	90	
Mg	24	45	He	878.855	3.38	2010423.30	90	
Al	27	45	He	22.035	6.27	11284.52	90	
K	39	45	He	104.282	2.07	151389.24	90	
Ca	43	45	He	2848.754	3.54	14037.05	90	>LDR
Ti	47	45	He	0.554	5.68	423.35	5	
V	51	45	He	0.065	6.14	2796.99	5	
Cr	52	45	He	0.025	6.07	2096.85	5	
Mn	55	72	He	1.037	3.77	20090.82	5	
Fe	56	72	He	23.123	2.20	1003691.68	90	
Co	59	72	He	0.012	7.28	1703.46	5	
Ni	60	72	He	0.020	20.15	816.71	5	
Cu	63	72	He	0.022	10.01	2726.98	5	
Zn	66	72	He	0.006	211.04	806.71	5	
As	75	72	He	0.010	16.10	67.56	5	
Se	78	72	He	0.019	17.49	8.33	5	
Sr	88	72	He	49.614	2.19	1001283.79	5	
Mo	95	72	He	0.313	5.69	14137.30	5	
Ag	107	103	He	0.001	26.13	130.00	1	
Cd	111	103	He	0.001	9.89	13.33	5	
Sn	118	103	He	-0.002	N/A	166.67	2	
Sb	121	103	He	0.003	32.24	196.67	1	
Ba	137	103	He	0.908	5.75	12212.28	2	
Tl	205	175	He	0.001	25.46	360.01	5	
Pb	208	175	He	0.021	3.35	12289.25	5	
U	238	175	He	0.062	2.11	37003.27	5	

QC ISTD Table

Sample Report

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc (No He)	45	No Gas	1817747.63	0.30	1786932.63	101.72	60	120	
Ge (No He)	72	No Gas	507014.54	0.27	491075.8	103.25	60	120	
Sc	45	He	17600.62	1.97	19446.29	90.51	60	120	
Ge	72	He	20025.09	1.27	21065.48	95.06	60	120	
Rh	103	He	849882.85	0.75	873163.84	97.33	60	120	
Lu	175	He	455391.41	0.58	442524.836666667	102.91	60	120	

Sample Report

Sample Name	MS L734231-16 WG756921
File Name	063SMPL.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\112814ICPMS8B.b
Acq Time	2014-11-28 20:55:49
Sample Type	Sample
Total Dilution	5.5556
Comment	---
ISTD Ref FileName	001CALB.d
Sample QC Pass/Fial	Fail
ISTD QC Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD	Tune Mode	Conc.	Conc. RSD	CPS	LDR	QC Flag
B	10	45	No Gas	1.617	0.86	51219.79	5	
B	11	45	No Gas	1.587	0.48	243128.79	5	
Se	82	72	No Gas	0.053	6.43	3100.35	5	
Be	9	45	He	0.058	15.80	123.33	5	
Na	23	45	He	1686.119	2.28	40479688.56	90	>LDR
Mg	24	45	He	811.349	3.92	8835008.62	90	>LDR
Al	27	45	He	24.535	2.78	59727.29	90	
K	39	45	He	100.501	2.41	676985.15	90	
Ca	43	45	He	2497.662	2.72	58572.70	90	>LDR
Ti	47	45	He	0.629	5.56	2273.56	5	
V	51	45	He	0.120	4.17	24467.59	5	
Cr	52	45	He	0.077	1.90	21636.34	5	
Mn	55	72	He	1.047	1.33	94225.19	5	
Fe	56	72	He	22.787	1.33	4587072.22	90	
Co	59	72	He	0.064	2.15	39073.28	5	
Ni	60	72	He	0.067	1.49	12185.28	5	
Cu	63	72	He	0.073	2.46	38394.69	5	
Zn	66	72	He	0.104	5.84	5601.21	5	
As	75	72	He	0.063	2.21	1959.25	5	
Se	78	72	He	0.053	14.43	54.67	5	
Sr	88	72	He	46.930	0.87	4408875.77	5	>LDR
Mo	95	72	He	0.367	0.84	77019.36	5	
Ag	107	103	He	0.051	2.80	43959.17	1	
Cd	111	103	He	0.051	1.54	4162.64	5	
Sn	118	103	He	0.053	3.79	8165.85	2	
Sb	121	103	He	0.050	0.65	9323.30	1	
Ba	137	103	He	0.958	1.83	58306.92	2	
Tl	205	175	He	0.050	1.72	104646.49	5	
Pb	208	175	He	0.072	1.69	183689.94	5	
U	238	175	He	0.064	1.89	174983.77	5	

QC ISTD Table

Sample Report

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc (No He)	45	No Gas	1732308.83	0.96	1786932.63	96.94	60	120	
Ge (No He)	72	No Gas	473407.52	0.99	491075.8	96.4	60	120	
Sc	45	He	16758.54	1.62	19446.29	86.18	60	120	
Ge	72	He	18642.18	1.68	21065.48	88.5	60	120	
Rh	103	He	770935.32	0.90	873163.84	88.29	60	120	
Lu	175	He	429310.19	0.77	442524.836666667	97.01	60	120	

Sample Report

Sample Name	MSD L734231-16 WG756921
File Name	064SMPL.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\112814ICPMS8B.b
Acq Time	2014-11-28 20:57:21
Sample Type	Sample
Total Dilution	5.5556
Comment	---
ISTD Ref FileName	001CALB.d
Sample QC Pass/Fial	Fail
ISTD QC Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD	Tune Mode	Conc.	Conc. RSD	CPS	LDR	QC Flag
B	10	45	No Gas	1.616	0.36	51301.41	5	
B	11	45	No Gas	1.574	0.39	241728.57	5	
Se	82	72	No Gas	0.055	7.19	3149.26	5	
Be	9	45	He	0.054	7.53	111.67	5	
Na	23	45	He	1695.506	1.61	40098174.40	90	>LDR
Mg	24	45	He	823.454	1.25	8834915.28	90	>LDR
Al	27	45	He	21.469	1.98	51490.18	90	
K	39	45	He	100.201	2.24	664851.58	90	
Ca	43	45	He	2328.739	2.18	53796.90	90	>LDR
Ti	47	45	He	0.651	2.67	2316.90	5	
V	51	45	He	0.116	1.24	23322.37	5	
Cr	52	45	He	0.077	2.80	21299.28	5	
Mn	55	72	He	1.022	0.47	91098.56	5	
Fe	56	72	He	20.791	0.99	4145717.96	90	
Co	59	72	He	0.063	0.36	38163.92	5	
Ni	60	72	He	0.066	3.36	11855.05	5	
Cu	63	72	He	0.068	0.93	35530.72	5	
Zn	66	72	He	0.103	6.22	5517.80	5	
As	75	72	He	0.061	2.86	1857.91	5	
Se	78	72	He	0.061	16.75	61.67	5	
Sr	88	72	He	43.631	0.26	4059598.69	5	>LDR
Mo	95	72	He	0.366	1.14	76074.40	5	
Ag	107	103	He	0.051	1.70	44487.54	1	
Cd	111	103	He	0.051	4.87	4140.63	5	
Sn	118	103	He	0.053	5.16	8022.47	2	
Sb	121	103	He	0.050	4.74	9393.37	1	
Ba	137	103	He	0.867	1.01	52547.65	2	
Tl	205	175	He	0.051	0.55	104418.31	5	
Pb	208	175	He	0.071	0.72	179690.36	5	
U	238	175	He	0.064	0.65	173287.80	5	

QC ISTD Table

Sample Report

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc (No He)	45	No Gas	1736186.74	1.27	1786932.63	97.16	60	120	
Ge (No He)	72	No Gas	468898.42	0.92	491075.8	95.48	60	120	
Sc	45	He	16507.16	1.49	19446.29	84.89	60	120	
Ge	72	He	18463.04	0.52	21065.48	87.65	60	120	
Rh	103	He	767212.67	0.74	873163.84	87.87	60	120	
Lu	175	He	421832.36	0.64	442524.836666667	95.32	60	120	

Sample Report

Sample Name	L734231-19 WG756921
File Name	065SMPL.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\112814ICPMS8B.b
Acq Time	2014-11-28 20:59:07
Sample Type	Sample
Total Dilution	5.5556
Comment	---
ISTD Ref FileName	001CALB.d
Sample QC Pass/Fial	Fail
ISTD QC Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD	Tune Mode	Conc.	Conc. RSD	CPS	LDR	QC Flag
B	10	45	No Gas	2.057	0.93	63946.40	5	
B	11	45	No Gas	2.018	0.98	303381.39	5	
Se	82	72	No Gas	0.005	6.07	1115.60	5	
Be	9	45	He	0.001	69.32	2.00	5	
Na	23	45	He	3908.234	0.62	91858075.30	90	>LDR
Mg	24	45	He	996.004	1.00	10620936.51	90	>LDR
Al	27	45	He	8.264	0.94	19716.67	90	
K	39	45	He	212.908	0.63	1399139.04	90	
Ca	43	45	He	1886.652	1.31	43324.74	90	>LDR
Ti	47	45	He	0.230	11.47	816.70	5	
V	51	45	He	0.031	1.65	6134.75	5	
Cr	52	45	He	0.011	8.56	3500.48	5	
Mn	55	72	He	0.953	1.23	84924.22	5	
Fe	56	72	He	9.168	1.47	1831627.06	90	
Co	59	72	He	0.005	8.88	3383.79	5	
Ni	60	72	He	0.010	2.32	1766.81	5	
Cu	63	72	He	0.010	5.31	5201.03	5	
Zn	66	72	He	0.014	7.70	1363.42	5	
As	75	72	He	0.006	9.00	176.00	5	
Se	78	72	He	0.008	20.62	11.67	5	
Sr	88	72	He	34.887	1.93	3247047.03	5	>LDR
Mo	95	72	He	0.615	1.22	127908.38	5	
Ag	107	103	He	0.000	55.97	143.33	1	
Cd	111	103	He	0.000	53.25	17.33	5	
Sn	118	103	He	0.001	47.58	326.68	2	
Sb	121	103	He	0.003	9.54	570.02	1	
Ba	137	103	He	0.324	4.08	19514.17	2	
Tl	205	175	He	0.000	11.98	456.68	5	
Pb	208	175	He	0.006	1.97	17088.04	5	
U	238	175	He	0.062	1.36	167396.10	5	

QC ISTD Table

Sample Report

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc (No He)	45	No Gas	1701757.06	1.89	1786932.63	95.23	60	120	
Ge (No He)	72	No Gas	461861.28	0.46	491075.8	94.05	60	120	
Sc	45	He	16405.92	1.46	19446.29	84.37	60	120	
Ge	72	He	18471.90	1.40	21065.48	87.69	60	120	
Rh	103	He	763039.96	0.60	873163.84	87.39	60	120	
Lu	175	He	424210.94	0.97	442524.836666667	95.86	60	120	

Sample Report

Sample Name	L734231-20 WG756921
File Name	066SMPL.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\112814ICPMS8B.b
Acq Time	2014-11-28 21:00:37
Sample Type	Sample
Total Dilution	5.5556
Comment	---
ISTD Ref FileName	001CALB.d
Sample QC Pass/Fial	Fail
ISTD QC Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD	Tune Mode	Conc.	Conc. RSD	CPS	LDR	QC Flag
B	10	45	No Gas	1.987	0.41	63668.52	5	
B	11	45	No Gas	1.935	0.31	299877.87	5	
Se	82	72	No Gas	0.012	15.15	1423.41	5	
Be	9	45	He	0.001	41.51	3.00	5	
Na	23	45	He	3695.121	1.68	87577452.03	90	>LDR
Mg	24	45	He	1149.842	1.22	12364503.15	90	>LDR
Al	27	45	He	37.390	3.38	89842.22	90	
K	39	45	He	188.433	1.89	1249101.05	90	
Ca	43	45	He	4911.509	1.79	113708.32	90	>LDR
Ti	47	45	He	1.086	2.22	3873.92	5	
V	51	45	He	0.128	2.89	25779.95	5	
Cr	52	45	He	0.043	1.57	12242.01	5	
Mn	55	72	He	1.808	1.29	157755.82	5	
Fe	56	72	He	39.672	1.03	7743889.26	90	
Co	59	72	He	0.023	2.18	13793.46	5	
Ni	60	72	He	0.033	0.39	5881.29	5	
Cu	63	72	He	0.035	1.35	17851.29	5	
Zn	66	72	He	0.103	3.39	5384.44	5	
As	75	72	He	0.016	2.99	480.45	5	
Se	78	72	He	0.013	34.83	15.67	5	
Sr	88	72	He	92.434	0.61	8423673.42	5	>LDR
Mo	95	72	He	0.412	0.54	83894.79	5	
Ag	107	103	He	0.000	20.18	186.67	1	
Cd	111	103	He	0.001	13.21	50.00	5	
Sn	118	103	He	0.003	13.32	556.69	2	
Sb	121	103	He	0.002	19.09	496.68	1	
Ba	137	103	He	1.276	1.53	74625.77	2	
Tl	205	175	He	0.001	0.56	1570.12	5	
Pb	208	175	He	0.029	0.60	73257.88	5	
U	238	175	He	0.094	0.71	251715.34	5	

QC ISTD Table

Sample Report

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc (No He)	45	No Gas	1753749.14	0.68	1786932.63	98.14	60	120	
Ge (No He)	72	No Gas	462914.94	0.51	491075.8	94.27	60	120	
Sc	45	He	16543.86	1.77	19446.29	85.07	60	120	
Ge	72	He	18084.77	1.94	21065.48	85.85	60	120	
Rh	103	He	740761.34	1.36	873163.84	84.84	60	120	
Lu	175	He	418108.59	1.71	442524.836666667	94.48	60	120	

Sample Report

Sample Name	L734231-24 WG756921
File Name	067SMPL.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\112814ICPMS8B.b
Acq Time	2014-11-28 21:02:08
Sample Type	Sample
Total Dilution	5.5556
Comment	---
ISTD Ref FileName	001CALB.d
Sample QC Pass/Fial	Fail
ISTD QC Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD	Tune Mode	Conc.	Conc. RSD	CPS	LDR	QC Flag
B	10	45	No Gas	0.860	0.32	27295.48	5	
B	11	45	No Gas	0.830	0.56	127558.78	5	
Se	82	72	No Gas	0.003	29.52	1108.94	5	
Be	9	45	He	0.001	136.86	2.00	5	
Na	23	45	He	794.832	1.57	18228755.15	90	>LDR
Mg	24	45	He	299.926	2.35	3119770.89	90	
Al	27	45	He	9.489	2.00	22080.20	90	
K	39	45	He	74.959	1.09	483323.82	90	
Ca	43	45	He	1453.162	0.78	32551.35	90	>LDR
Ti	47	45	He	0.273	12.13	943.38	5	
V	51	45	He	0.033	4.77	6548.26	5	
Cr	52	45	He	0.011	2.49	3513.82	5	
Mn	55	72	He	0.375	2.69	32770.59	5	
Fe	56	72	He	10.051	2.20	1966414.35	90	
Co	59	72	He	0.006	7.35	3950.61	5	
Ni	60	72	He	0.008	0.32	1436.76	5	
Cu	63	72	He	0.011	4.02	6054.71	5	
Zn	66	72	He	0.024	19.56	1770.13	5	
As	75	72	He	0.007	9.57	222.67	5	
Se	78	72	He	0.014	31.67	17.00	5	
Sr	88	72	He	25.891	2.75	2360701.48	5	
Mo	95	72	He	0.358	3.45	72981.43	5	
Ag	107	103	He	0.000	98.96	110.00	1	
Cd	111	103	He	0.000	45.56	20.67	5	
Sn	118	103	He	0.002	34.34	440.02	2	
Sb	121	103	He	0.002	18.89	476.68	1	
Ba	137	103	He	0.372	3.21	23106.42	2	
Tl	205	175	He	0.000	30.76	580.02	5	
Pb	208	175	He	0.008	2.97	22194.48	5	
U	238	175	He	0.027	0.31	73757.49	5	

QC ISTD Table

Sample Report

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc (No He)	45	No Gas	1729858.98	0.94	1786932.63	96.81	60	120	
Ge (No He)	72	No Gas	479103.50	0.30	491075.8	97.56	60	120	
Sc	45	He	16002.15	1.20	19446.29	82.29	60	120	
Ge	72	He	18101.48	2.99	21065.48	85.93	60	120	
Rh	103	He	786212.07	0.45	873163.84	90.04	60	120	
Lu	175	He	420936.04	0.47	442524.836666667	95.12	60	120	

Sample Report

Sample Name	L734810-03 WG756921
File Name	068SMPL.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\112814ICPMS8B.b
Acq Time	2014-11-28 21:03:40
Sample Type	Sample
Total Dilution	5.5556
Comment	---
ISTD Ref FileName	001CALB.d
Sample QC Pass/Fial	Fail
ISTD QC Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD	Tune Mode	Conc.	Conc. RSD	CPS	LDR	QC Flag
B	10	45	No Gas	0.232	4.74	7541.25	5	
B	11	45	No Gas	0.227	1.19	35707.07	5	
Se	82	72	No Gas	0.016	7.17	1608.99	5	
Be	9	45	He	0.002	81.37	4.33	5	
Na	23	45	He	1474.616	0.61	33658055.33	90	>LDR
Mg	24	45	He	393.637	1.70	4076040.98	90	
Al	27	45	He	16.802	2.81	38895.17	90	
K	39	45	He	13.333	2.24	89191.23	90	
Ca	43	45	He	1217.349	0.72	27144.72	90	>LDR
Ti	47	45	He	0.296	4.33	1016.73	5	
V	51	45	He	0.030	1.80	5827.93	5	
Cr	52	45	He	0.023	3.02	6524.91	5	
Mn	55	72	He	0.641	1.70	56359.69	5	
Fe	56	72	He	17.266	0.78	3398427.55	90	
Co	59	72	He	0.009	8.51	5374.42	5	
Ni	60	72	He	0.020	3.29	3617.17	5	
Cu	63	72	He	0.013	2.37	6801.73	5	
Zn	66	72	He	0.066	4.06	3703.89	5	
As	75	72	He	0.005	5.68	161.78	5	
Se	78	72	He	0.014	10.39	17.33	5	
Sr	88	72	He	20.643	0.22	1895681.33	5	
Mo	95	72	He	0.025	6.99	5241.07	5	
Ag	107	103	He	0.000	44.93	93.33	1	
Cd	111	103	He	0.000	13.66	30.00	5	
Sn	118	103	He	0.001	18.37	346.68	2	
Sb	121	103	He	0.001	15.51	330.01	1	
Ba	137	103	He	0.276	1.73	17170.98	2	
Tl	205	175	He	0.000	24.69	640.03	5	
Pb	208	175	He	0.010	1.27	26334.20	5	
U	238	175	He	0.007	0.16	19181.19	5	

QC ISTD Table

Sample Report

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc (No He)	45	No Gas	1734149.24	1.38	1786932.63	97.05	60	120	
Ge (No He)	72	No Gas	474725.96	1.38	491075.8	96.67	60	120	
Sc	45	He	15927.62	1.38	19446.29	81.91	60	120	
Ge	72	He	18221.60	1.34	21065.48	86.5	60	120	
Rh	103	He	787120.01	0.79	873163.84	90.15	60	120	
Lu	175	He	427824.68	0.61	442524.836666667	96.68	60	120	

Sample Report

Sample Name	L734810-05 WG756921
File Name	069SMPL.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\112814ICPMS8B.b
Acq Time	2014-11-28 21:05:10
Sample Type	Sample
Total Dilution	5.5556
Comment	---
ISTD Ref FileName	001CALB.d
Sample QC Pass/Fial	Fail
ISTD QC Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD	Tune Mode	Conc.	Conc. RSD	CPS	LDR	QC Flag
B	10	45	No Gas	0.237	0.65	7974.81	5	
B	11	45	No Gas	0.237	2.09	38534.75	5	
Se	82	72	No Gas	0.018	6.20	1683.44	5	
Be	9	45	He	0.003	17.80	6.00	5	
Na	23	45	He	1679.549	0.84	39832371.91	90	>LDR
Mg	24	45	He	474.375	0.69	5104047.42	90	
Al	27	45	He	35.027	1.80	84229.55	90	
K	39	45	He	14.614	3.32	101134.21	90	
Ca	43	45	He	1288.235	0.73	29849.28	90	>LDR
Ti	47	45	He	0.726	8.90	2590.28	5	
V	51	45	He	0.111	2.10	22481.03	5	
Cr	52	45	He	0.060	3.57	16816.62	5	
Mn	55	72	He	0.732	1.64	65979.64	5	
Fe	56	72	He	40.002	0.60	8061819.88	90	
Co	59	72	He	0.017	2.21	10217.14	5	
Ni	60	72	He	0.036	5.54	6604.95	5	
Cu	63	72	He	0.025	2.50	13663.35	5	
Zn	66	72	He	0.107	4.46	5754.61	5	
As	75	72	He	0.009	12.22	277.78	5	
Se	78	72	He	0.026	9.03	28.67	5	
Sr	88	72	He	19.812	1.79	1864061.69	5	
Mo	95	72	He	0.022	7.37	4534.14	5	
Ag	107	103	He	0.000	25.43	90.00	1	
Cd	111	103	He	0.001	14.59	57.33	5	
Sn	118	103	He	0.003	30.93	613.36	2	
Sb	121	103	He	0.002	6.03	440.02	1	
Ba	137	103	He	0.453	0.38	27908.61	2	
Tl	205	175	He	0.001	13.98	1160.07	5	
Pb	208	175	He	0.025	3.64	65275.08	5	
U	238	175	He	0.008	2.78	23992.66	5	

QC ISTD Table

Sample Report

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc (No He)	45	No Gas	1798127.11	1.07	1786932.63	100.63	60	120	
Ge (No He)	72	No Gas	476794.41	1.75	491075.8	97.09	60	120	
Sc	45	He	16551.66	0.83	19446.29	85.11	60	120	
Ge	72	He	18672.21	1.43	21065.48	88.64	60	120	
Rh	103	He	779913.82	0.59	873163.84	89.32	60	120	
Lu	175	He	430528.60	1.45	442524.836666667	97.29	60	120	

Sample Report

Sample Name	L734810-07 WG756921
File Name	070SMPL.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\112814ICPMS8B.b
Acq Time	2014-11-28 21:06:41
Sample Type	Sample
Total Dilution	5.5556
Comment	---
ISTD Ref FileName	001CALB.d
Sample QC Pass/Fial	Fail
ISTD QC Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD	Tune Mode	Conc.	Conc. RSD	CPS	LDR	QC Flag
B	10	45	No Gas	0.457	1.95	15554.09	5	
B	11	45	No Gas	0.447	2.03	73660.09	5	
Se	82	72	No Gas	0.013	6.72	1518.98	5	
Be	9	45	He	0.005	61.66	10.33	5	
Na	23	45	He	1563.432	0.10	36844062.78	90	>LDR
Mg	24	45	He	480.351	0.51	5135451.49	90	
Al	27	45	He	67.219	1.32	160590.94	90	
K	39	45	He	24.278	0.99	163959.80	90	
Ca	43	45	He	1492.642	0.08	34364.44	90	>LDR
Ti	47	45	He	1.240	6.77	4394.08	5	
V	51	45	He	0.153	3.93	30779.59	5	
Cr	52	45	He	0.103	1.42	28337.99	5	
Mn	55	72	He	1.156	0.14	102125.04	5	
Fe	56	72	He	73.395	1.53	14495796.87	90	
Co	59	72	He	0.027	3.89	16155.91	5	
Ni	60	72	He	0.061	6.05	10894.32	5	
Cu	63	72	He	0.042	5.22	22070.53	5	
Zn	66	72	He	0.216	2.79	10667.47	5	
As	75	72	He	0.031	4.08	936.48	5	
Se	78	72	He	0.026	52.31	28.67	5	
Sr	88	72	He	18.211	0.95	1679790.03	5	
Mo	95	72	He	0.025	7.51	5061.00	5	
Ag	107	103	He	0.000	7.81	150.00	1	
Cd	111	103	He	0.001	15.33	65.33	5	
Sn	118	103	He	0.005	15.78	973.39	2	
Sb	121	103	He	0.002	12.44	516.69	1	
Ba	137	103	He	1.096	1.38	67559.37	2	
Tl	205	175	He	0.001	4.20	2120.21	5	
Pb	208	175	He	0.042	0.34	108734.99	5	
U	238	175	He	0.014	1.41	39260.10	5	

QC ISTD Table

Sample Report

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc (No He)	45	No Gas	1842914.40	0.72	1786932.63	103.13	60	120	
Ge (No He)	72	No Gas	482505.86	0.70	491075.8	98.25	60	120	
Sc	45	He	16445.99	0.29	19446.29	84.57	60	120	
Ge	72	He	18303.93	0.83	21065.48	86.89	60	120	
Rh	103	He	780685.38	0.62	873163.84	89.41	60	120	
Lu	175	He	431033.00	0.21	442524.836666667	97.4	60	120	

Sample Report

Sample Name	L734810-09 WG756921
File Name	071SMPL.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\112814ICPMS8B.b
Acq Time	2014-11-28 21:08:12
Sample Type	Sample
Total Dilution	5.5556
Comment	---
ISTD Ref FileName	001CALB.d
Sample QC Pass/Fial	Fail
ISTD QC Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD	Tune Mode	Conc.	Conc. RSD	CPS	LDR	QC Flag
B	10	45	No Gas	0.428	1.93	14719.91	5	
B	11	45	No Gas	0.423	1.68	70460.10	5	
Se	82	72	No Gas	0.022	8.32	1853.46	5	
Be	9	45	He	0.006	7.78	14.00	5	
Na	23	45	He	1624.936	0.71	39042534.42	90	>LDR
Mg	24	45	He	402.352	1.75	4385586.91	90	
Al	27	45	He	91.759	1.07	223509.46	90	
K	39	45	He	30.888	0.83	211428.97	90	
Ca	43	45	He	2115.313	1.48	49650.00	90	>LDR
Ti	47	45	He	1.631	3.46	5894.62	5	
V	51	45	He	0.174	3.21	35607.26	5	
Cr	52	45	He	0.135	3.74	37692.51	5	
Mn	55	72	He	1.698	1.45	151212.57	5	
Fe	56	72	He	103.969	1.24	20712928.03	90	
Co	59	72	He	0.038	2.21	22985.14	5	
Ni	60	72	He	0.093	0.79	16609.78	5	
Cu	63	72	He	0.065	1.36	34090.67	5	
Zn	66	72	He	0.283	1.13	13883.54	5	
As	75	72	He	0.027	4.65	837.80	5	
Se	78	72	He	0.042	18.88	43.67	5	
Sr	88	72	He	22.431	0.87	2087198.51	5	
Mo	95	72	He	0.024	7.26	5067.67	5	
Ag	107	103	He	0.000	17.97	320.01	1	
Cd	111	103	He	0.001	16.16	99.33	5	
Sn	118	103	He	0.007	9.44	1233.41	2	
Sb	121	103	He	0.002	14.90	496.68	1	
Ba	137	103	He	1.187	1.65	73533.02	2	
Tl	205	175	He	0.001	7.17	2496.93	5	
Pb	208	175	He	0.062	0.31	160920.56	5	
U	238	175	He	0.020	1.69	55837.68	5	

QC ISTD Table

Sample Report

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc (No He)	45	No Gas	1859471.95	1.12	1786932.63	104.06	60	120	
Ge (No He)	72	No Gas	477104.21	0.21	491075.8	97.15	60	120	
Sc	45	He	16768.55	0.85	19446.29	86.23	60	120	
Ge	72	He	18465.25	1.87	21065.48	87.66	60	120	
Rh	103	He	784714.65	0.60	873163.84	89.87	60	120	
Lu	175	He	436697.11	0.47	442524.836666667	98.68	60	120	

Sample Report

Sample Name	L735181-02 WG756921
File Name	072SMPL.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\112814ICPMS8B.b
Acq Time	2014-11-28 21:09:42
Sample Type	Sample
Total Dilution	5.5556
Comment	---
ISTD Ref FileName	001CALB.d
Sample QC Pass/Fial	Fail
ISTD QC Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD	Tune Mode	Conc.	Conc. RSD	CPS	LDR	QC Flag
B	10	45	No Gas	0.252	1.65	8194.93	5	
B	11	45	No Gas	0.240	1.83	37906.51	5	
Se	82	72	No Gas	0.005	29.84	1160.06	5	
Be	9	45	He	0.001	102.53	1.67	5	
Na	23	45	He	753.200	1.90	17081144.75	90	>LDR
Mg	24	45	He	200.656	1.19	2064015.59	90	
Al	27	45	He	17.556	1.78	40368.66	90	
K	39	45	He	16.562	1.68	108993.79	90	
Ca	43	45	He	1090.794	1.45	24162.17	90	>LDR
Ti	47	45	He	0.352	5.41	1203.40	5	
V	51	45	He	0.060	5.51	11511.45	5	
Cr	52	45	He	0.020	10.06	5727.92	5	
Mn	55	72	He	0.782	1.08	68648.95	5	
Fe	56	72	He	16.884	0.91	3316701.51	90	
Co	59	72	He	0.009	3.53	5644.51	5	
Ni	60	72	He	0.021	4.77	3717.20	5	
Cu	63	72	He	0.009	3.75	4730.86	5	
Zn	66	72	He	0.039	13.99	2456.92	5	
As	75	72	He	0.010	5.42	295.56	5	
Se	78	72	He	0.007	39.60	10.33	5	
Sr	88	72	He	13.847	0.43	1269049.62	5	
Mo	95	72	He	0.025	3.78	5157.68	5	
Ag	107	103	He	0.000	48.84	66.67	1	
Cd	111	103	He	0.000	51.87	20.67	5	
Sn	118	103	He	0.001	78.48	296.68	2	
Sb	121	103	He	0.002	34.72	440.01	1	
Ba	137	103	He	0.300	1.08	18712.98	2	
Tl	205	175	He	0.000	9.37	976.72	5	
Pb	208	175	He	0.012	1.03	30097.52	5	
U	238	175	He	0.032	1.20	88398.39	5	

QC ISTD Table

Sample Report

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc (No He)	45	No Gas	1742285.39	1.06	1786932.63	97.5	60	120	
Ge (No He)	72	No Gas	477597.50	0.55	491075.8	97.26	60	120	
Sc	45	He	15823.04	0.72	19446.29	81.37	60	120	
Ge	72	He	18184.90	0.81	21065.48	86.33	60	120	
Rh	103	He	788353.63	0.50	873163.84	90.29	60	120	
Lu	175	He	423990.13	0.10	442524.836666667	95.81	60	120	

Sample Report

Sample Name	L735181-05 WG756921
File Name	073SMPL.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\112814ICPMS8B.b
Acq Time	2014-11-28 21:11:29
Sample Type	Sample
Total Dilution	5.5556
Comment	---
ISTD Ref FileName	001CALB.d
Sample QC Pass/Fial	Fail
ISTD QC Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD	Tune Mode	Conc.	Conc. RSD	CPS	LDR	QC Flag
B	10	45	No Gas	0.425	2.35	13244.55	5	
B	11	45	No Gas	0.420	1.82	63280.95	5	
Se	82	72	No Gas	0.003	33.31	1060.04	5	
Be	9	45	He	0.000	461.64	0.67	5	
Na	23	45	He	3625.232	0.74	82309002.11	90	>LDR
Mg	24	45	He	759.284	0.52	7821786.55	90	>LDR
Al	27	45	He	2.516	3.80	5814.55	90	
K	39	45	He	21.653	0.42	141383.26	90	
Ca	43	45	He	928.772	0.23	20607.44	90	>LDR
Ti	47	45	He	0.074	7.77	256.68	5	
V	51	45	He	0.029	2.27	5657.85	5	
Cr	52	45	He	0.005	27.71	1783.47	5	
Mn	55	72	He	0.718	2.13	61938.98	5	
Fe	56	72	He	2.449	2.40	476250.85	90	
Co	59	72	He	0.004	5.78	2493.60	5	
Ni	60	72	He	0.008	15.21	1373.42	5	
Cu	63	72	He	0.003	6.63	1716.79	5	
Zn	66	72	He	0.000	N/A	653.36	5	
As	75	72	He	0.019	3.74	555.12	5	
Se	78	72	He	0.003	81.35	6.67	5	
Sr	88	72	He	18.637	3.57	1677434.50	5	
Mo	95	72	He	0.023	7.71	4604.16	5	
Ag	107	103	He	0.000	125.02	43.33	1	
Cd	111	103	He	0.001	17.02	56.67	5	
Sn	118	103	He	0.000	279.78	210.00	2	
Sb	121	103	He	0.003	26.67	576.69	1	
Ba	137	103	He	0.093	3.99	5604.60	2	
Tl	205	175	He	0.000	5.90	416.68	5	
Pb	208	175	He	0.001	4.03	3896.96	5	
U	238	175	He	0.030	0.49	79608.29	5	

QC ISTD Table

Sample Report

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc (No He)	45	No Gas	1685524.45	2.32	1786932.63	94.33	60	120	
Ge (No He)	72	No Gas	461142.95	0.70	491075.8	93.9	60	120	
Sc	45	He	15847.53	0.50	19446.29	81.49	60	120	
Ge	72	He	17867.85	2.07	21065.48	84.82	60	120	
Rh	103	He	758291.47	0.46	873163.84	86.84	60	120	
Lu	175	He	419220.85	0.78	442524.836666667	94.73	60	120	

Continuing Calibration Verification (CCV) Report

Sample Name	CCV 14K05175
File Name	074_CCV.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\112814ICPMS8B.b
Acq Time	2014-11-28 21:12:59
Sample Type	CCV
Total Dilution	1.0000
Comment	---
ISTD Ref FileName	001CALB.d
Sample QC Pass/Fial	Fail
ISTD QC Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD	Tune Mode	Conc.	Conc. RSD	CPS	ExpValue	% Rec	%QC Low	%QC High	QC Flag
B	10	45	No Gas	0.096	2.00	17708.46	0.9	10.68	10	10	
B	11	45	No Gas	0.094	1.03	83467.69	0.9	10.4	10	10	
Se	82	72	No Gas	0.101	0.82	24782.66	0.9	11.27	10	10	
Be	9	45	He	0.121	3.77	1419.40	0.9	13.42	10	10	CCV Main CR1 Failed
Na	23	45	He	11.123	1.02	1500995.81	0.9	1235.93	1000	1000	CCV Main CR1 Failed
Mg	24	45	He	10.713	0.32	651778.06	0.9	1190.32	1000	1000	
Al	27	45	He	1.030	3.92	14030.18	0.9	114.5	100	100	
K	39	45	He	9.962	0.57	376731.14	0.9	1106.88	1000	1000	
Ca	43	45	He	10.029	1.00	1321.39	0.9	1114.31	1000	1000	
Ti	47	45	He	0.117	5.70	2366.91	0.9	13.03	10	10	CCV Main CR1 Failed
V	51	45	He	0.109	1.27	123985.46	0.9	12.06	10	10	
Cr	52	45	He	0.111	0.83	170332.41	0.9	12.32	10	10	CCV Main CR1 Failed
Mn	55	72	He	0.101	4.14	51906.51	0.9	11.26	10	10	
Fe	56	72	He	1.041	3.81	1195968.50	0.9	115.64	100	100	
Co	59	72	He	0.110	3.36	379393.86	0.9	12.2	10	10	
Ni	60	72	He	0.109	3.96	112398.67	0.9	12.16	10	10	
Cu	63	72	He	0.112	4.12	335285.44	0.9	12.44	10	10	CCV Main CR1 Failed
Zn	66	72	He	0.108	4.15	29560.70	0.9	11.95	10	10	
As	75	72	He	0.104	3.45	18314.33	0.9	11.58	10	10	
Se	78	72	He	0.094	5.03	515.34	0.9	10.44	10	10	
Sr	88	72	He	0.100	5.62	53507.93	0.9	11.1	10	10	
Mo	95	72	He	0.111	4.01	132678.64	0.9	12.33	10	10	CCV Main CR1 Failed
Ag	107	103	He	0.104	0.74	560425.76	0.9	11.6	10	10	
Cd	111	103	He	0.100	1.43	50704.04	0.9	11.13	10	10	
Sn	118	103	He	0.099	0.49	92046.20	0.9	11.03	10	10	
Sb	121	103	He	0.097	2.03	112103.08	0.9	10.82	10	10	
Ba	137	103	He	0.096	2.76	36218.17	0.9	10.69	10	10	
Tl	205	175	He	0.108	0.82	1286855.37	0.9	12.01	10	10	
Pb	208	175	He	0.112	0.20	1636694.88	0.9	12.46	10	10	CCV Main CR1 Failed
U	238	175	He	0.112	0.67	1748055.65	0.9	12.43	10	10	CCV Main CR1 Failed

QC ISTD Table

Continuing Calibration Verification (CCV) Report

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc (No He)	45	No Gas	1798146.90	0.96	1786932.63	100.63	60	120	
Ge (No He)	72	No Gas	492708.03	0.46	491075.8	100.33	60	120	
Sc	45	He	16838.65	1.20	19446.29	86.59	60	120	
Ge	72	He	19113.89	2.90	21065.48	90.74	60	120	
Rh	103	He	857803.56	0.42	873163.84	98.24	60	120	
Lu	175	He	441166.63	0.40	442524.836666667	99.69	60	120	

Continuing Calibration Blank (CCB) Report

Sample Name	CCB 14K05174
File Name	075_CCB.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\112814ICPMS8B.b
Acq Time	2014-11-28 21:14:32
Sample Type	CCB
Total Dilution	1.0000
Comment	---
ISTD Ref FileName	001CALB.d
Sample QC Pass/Fial	Pass
ISTD QC Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD	Tune Mode	Conc.	Conc. RSD	CPS	Limit	QC Flag
B	10	45	No Gas	0.006	2.73	1216.72	0.015	
B	11	45	No Gas	0.005	3.41	5815.14	0.015	
Se	82	72	No Gas	0.000	N/A	946.70	0.00075	
Be	9	45	He	0.000	199.30	1.33	0.00075	
Na	23	45	He	0.121	4.59	26240.13	0.75	
Mg	24	45	He	0.005	22.36	643.36	0.75	
Al	27	45	He	0.001	150.60	33.33	0.0375	
K	39	45	He	-0.001	N/A	4567.48	0.75	
Ca	43	45	He	-0.015	N/A	6.33	0.75	
Ti	47	45	He	0.000	N/A	0.00	0.0075	
V	51	45	He	0.000	47.64	26.67	0.0015	
Cr	52	45	He	0.000	89.67	723.37	0.00075	
Mn	55	72	He	0.000	150.02	90.00	0.0015	
Fe	56	72	He	0.001	25.39	5541.14	0.0375	
Co	59	72	He	0.000	N/A	93.33	0.00075	
Ni	60	72	He	0.000	3.06	100.00	0.00075	
Cu	63	72	He	0.000	717.13	260.01	0.0015	
Zn	66	72	He	0.000	N/A	703.37	0.0075	
As	75	72	He	0.000	28.20	8.89	0.00075	
Se	78	72	He	0.000	323.65	5.33	0.00075	
Sr	88	72	He	0.000	71.14	260.01	0.0075	
Mo	95	72	He	0.000	65.97	36.67	0.0015	
Ag	107	103	He	0.000	43.52	286.67	0.000375	
Cd	111	103	He	0.000	23.45	12.67	0.000375	
Sn	118	103	He	0.000	16.80	270.01	0.00075	
Sb	121	103	He	0.000	35.85	260.01	0.00075	
Ba	137	103	He	0.000	N/A	16.67	0.0015	
Tl	205	175	He	0.000	12.06	346.68	0.00075	
Pb	208	175	He	0.000	47.32	1133.38	0.00075	
U	238	175	He	0.000	N/A	383.35	0.0075	

QC ISTD Table

Continuing Calibration Blank (CCB) Report

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc (No He)	45	No Gas	1775349.35	1.40	1786932.63	99.35	60	120	
Ge (No He)	72	No Gas	487802.28	0.78	491075.8	99.33	60	120	
Sc	45	He	16662.88	0.84	19446.29	85.69	60	120	
Ge	72	He	18918.06	1.86	21065.48	89.81	60	120	
Rh	103	He	836953.22	0.76	873163.84	95.85	60	120	
Lu	175	He	431056.11	1.00	442524.836666667	97.41	60	120	

Sample Report

Sample Name	L735181-07 WG756921
File Name	076SMPL.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\112814ICPMS8B.b
Acq Time	2014-11-28 21:16:05
Sample Type	Sample
Total Dilution	5.5556
Comment	---
ISTD Ref FileName	001CALB.d
Sample QC Pass/Fial	Fail
ISTD QC Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD	Tune Mode	Conc.	Conc. RSD	CPS	LDR	QC Flag
B	10	45	No Gas	0.457	2.04	14438.32	5	
B	11	45	No Gas	0.445	0.79	68059.76	5	
Se	82	72	No Gas	0.009	9.07	1328.95	5	
Be	9	45	He	0.001	90.80	3.33	5	
Na	23	45	He	2163.030	0.42	49468134.26	90	>LDR
Mg	24	45	He	484.293	0.73	5024798.26	90	
Al	27	45	He	15.015	2.77	34838.17	90	
K	39	45	He	19.315	2.07	127494.76	90	
Ca	43	45	He	994.295	0.70	22219.12	90	>LDR
Ti	47	45	He	0.309	0.88	1063.39	5	
V	51	45	He	0.163	1.80	31721.48	5	
Cr	52	45	He	0.020	3.87	5854.60	5	
Mn	55	72	He	0.395	0.68	35460.40	5	
Fe	56	72	He	15.498	0.48	3113340.48	90	
Co	59	72	He	0.008	6.16	4804.20	5	
Ni	60	72	He	0.016	1.29	2930.35	5	
Cu	63	72	He	0.008	3.40	4654.17	5	
Zn	66	72	He	0.029	10.18	2070.19	5	
As	75	72	He	0.029	3.38	909.36	5	
Se	78	72	He	0.014	59.46	17.00	5	
Sr	88	72	He	15.909	0.31	1490944.77	5	
Mo	95	72	He	0.057	0.11	11888.54	5	
Ag	107	103	He	0.000	25.80	143.33	1	
Cd	111	103	He	0.000	20.38	27.33	5	
Sn	118	103	He	0.001	41.97	323.35	2	
Sb	121	103	He	0.003	12.68	620.02	1	
Ba	137	103	He	0.180	2.30	10974.57	2	
Tl	205	175	He	0.000	2.85	650.03	5	
Pb	208	175	He	0.010	2.84	25720.37	5	
U	238	175	He	0.127	1.51	342559.29	5	

QC ISTD Table

Sample Report

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc (No He)	45	No Gas	1710581.95	0.68	1786932.63	95.73	60	120	
Ge (No He)	72	No Gas	469696.68	0.46	491075.8	95.65	60	120	
Sc	45	He	15960.98	0.93	19446.29	82.08	60	120	
Ge	72	He	18595.41	0.82	21065.48	88.27	60	120	
Rh	103	He	770262.83	0.29	873163.84	88.22	60	120	
Lu	175	He	423038.04	0.89	442524.836666667	95.6	60	120	

Sample Report

Sample Name	L735181-08 WG756921
File Name	077SMPL.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\112814ICPMS8B.b
Acq Time	2014-11-28 21:17:37
Sample Type	Sample
Total Dilution	5.5556
Comment	---
ISTD Ref FileName	001CALB.d
Sample QC Pass/Fial	Fail
ISTD QC Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD	Tune Mode	Conc.	Conc. RSD	CPS	LDR	QC Flag
B	10	45	No Gas	0.189	0.62	6284.00	5	
B	11	45	No Gas	0.183	1.26	29465.57	5	
Se	82	72	No Gas	0.001	254.38	1013.38	5	
Be	9	45	He	0.000	71.22	1.33	5	
Na	23	45	He	80.511	2.03	1840229.92	90	
Mg	24	45	He	136.465	3.78	1407872.58	90	
Al	27	45	He	10.004	5.68	23074.92	90	
K	39	45	He	16.904	2.96	111485.23	90	
Ca	43	45	He	806.209	2.41	17914.27	90	>LDR
Ti	47	45	He	0.217	2.56	743.37	5	
V	51	45	He	0.028	5.04	5491.15	5	
Cr	52	45	He	0.010	8.26	3123.74	5	
Mn	55	72	He	0.760	0.57	67985.82	5	
Fe	56	72	He	7.819	0.97	1567306.85	90	
Co	59	72	He	0.006	1.57	3927.27	5	
Ni	60	72	He	0.013	3.38	2316.89	5	
Cu	63	72	He	0.005	4.83	2606.95	5	
Zn	66	72	He	0.011	11.75	1193.40	5	
As	75	72	He	0.047	1.86	1440.52	5	
Se	78	72	He	0.003	94.26	7.33	5	
Sr	88	72	He	11.309	0.96	1056101.31	5	
Mo	95	72	He	0.030	2.04	6191.45	5	
Ag	107	103	He	0.000	49.16	86.67	1	
Cd	111	103	He	0.000	29.80	20.00	5	
Sn	118	103	He	0.001	52.22	296.68	2	
Sb	121	103	He	0.002	23.40	483.35	1	
Ba	137	103	He	0.178	1.67	11378.20	2	
Tl	205	175	He	0.000	19.41	963.39	5	
Pb	208	175	He	0.006	4.71	15293.75	5	
U	238	175	He	0.038	2.48	104454.03	5	

QC ISTD Table

Sample Report

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc (No He)	45	No Gas	1759630.86	0.79	1786932.63	98.47	60	120	
Ge (No He)	72	No Gas	485244.15	0.61	491075.8	98.81	60	120	
Sc	45	He	15874.23	1.78	19446.29	81.63	60	120	
Ge	72	He	18528.65	0.21	21065.48	87.96	60	120	
Rh	103	He	807747.88	0.53	873163.84	92.51	60	120	
Lu	175	He	427804.21	1.09	442524.836666667	96.67	60	120	

Sample Report

Sample Name	L735318-07 WG756921
File Name	078SMPL.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\112814ICPMS8B.b
Acq Time	2014-11-28 21:19:08
Sample Type	Sample
Total Dilution	5.5556
Comment	---
ISTD Ref FileName	001CALB.d
Sample QC Pass/Fial	Fail
ISTD QC Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD	Tune Mode	Conc.	Conc. RSD	CPS	LDR	QC Flag
B	10	45	No Gas	0.422	0.61	13575.50	5	
B	11	45	No Gas	0.412	0.38	64159.38	5	
Se	82	72	No Gas	0.007	17.32	1256.73	5	
Be	9	45	He	0.004	20.12	7.67	5	
Na	23	45	He	61.432	1.95	1420802.64	90	
Mg	24	45	He	179.471	1.52	1870535.80	90	
Al	27	45	He	34.292	2.67	79861.84	90	
K	39	45	He	24.096	0.53	158688.23	90	
Ca	43	45	He	1276.163	1.20	28641.56	90	>LDR
Ti	47	45	He	0.703	9.42	2433.60	5	
V	51	45	He	0.106	3.09	20654.95	5	
Cr	52	45	He	0.034	5.33	9559.97	5	
Mn	55	72	He	0.943	2.20	84053.05	5	
Fe	56	72	He	31.396	2.71	6261501.99	90	
Co	59	72	He	0.021	2.49	12915.98	5	
Ni	60	72	He	0.035	4.28	6361.50	5	
Cu	63	72	He	0.019	5.37	9960.30	5	
Zn	66	72	He	0.092	1.19	4994.30	5	
As	75	72	He	0.017	3.02	513.79	5	
Se	78	72	He	0.018	17.20	21.33	5	
Sr	88	72	He	13.761	2.86	1281233.05	5	
Mo	95	72	He	0.028	1.66	5851.31	5	
Ag	107	103	He	0.000	38.48	133.33	1	
Cd	111	103	He	0.001	28.56	54.67	5	
Sn	118	103	He	0.003	34.71	643.36	2	
Sb	121	103	He	0.003	14.27	586.69	1	
Ba	137	103	He	0.442	0.52	28199.30	2	
Tl	205	175	He	0.001	8.21	1526.78	5	
Pb	208	175	He	0.025	1.57	65390.98	5	
U	238	175	He	0.032	0.73	87505.70	5	

QC ISTD Table

Sample Report

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc (No He)	45	No Gas	1738934.56	0.38	1786932.63	97.31	60	120	
Ge (No He)	72	No Gas	479204.25	0.10	491075.8	97.58	60	120	
Sc	45	He	16033.27	1.36	19446.29	82.45	60	120	
Ge	72	He	18480.82	2.07	21065.48	87.73	60	120	
Rh	103	He	807395.48	0.39	873163.84	92.47	60	120	
Lu	175	He	430169.04	0.61	442524.836666667	97.21	60	120	

Sample Report

Sample Name	L735318-08 WG756921
File Name	079SMPL.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\112814ICPMS8B.b
Acq Time	2014-11-28 21:20:39
Sample Type	Sample
Total Dilution	5.5556
Comment	---
ISTD Ref FileName	001CALB.d
Sample QC Pass/Fial	Fail
ISTD QC Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD	Tune Mode	Conc.	Conc. RSD	CPS	LDR	QC Flag
B	10	45	No Gas	0.190	2.59	6364.03	5	
B	11	45	No Gas	0.187	2.14	30344.00	5	
Se	82	72	No Gas	0.006	6.02	1247.84	5	
Be	9	45	He	0.002	67.76	3.67	5	
Na	23	45	He	73.323	1.90	1705152.06	90	
Mg	24	45	He	93.145	2.63	977440.30	90	
Al	27	45	He	24.225	2.61	56812.38	90	
K	39	45	He	10.000	1.50	68898.38	90	
Ca	43	45	He	1163.534	1.37	26290.17	90	>LDR
Ti	47	45	He	0.508	6.46	1766.82	5	
V	51	45	He	0.074	0.36	14687.67	5	
Cr	52	45	He	0.030	7.44	8602.71	5	
Mn	55	72	He	0.480	3.72	42830.18	5	
Fe	56	72	He	22.388	1.31	4469332.75	90	
Co	59	72	He	0.011	2.55	6861.75	5	
Ni	60	72	He	0.021	2.81	3877.26	5	
Cu	63	72	He	0.013	2.58	7231.94	5	
Zn	66	72	He	0.058	10.18	3407.13	5	
As	75	72	He	0.008	1.51	233.34	5	
Se	78	72	He	0.012	30.47	15.67	5	
Sr	88	72	He	11.054	2.30	1029728.14	5	
Mo	95	72	He	0.014	11.12	2897.02	5	
Ag	107	103	He	0.000	24.50	86.67	1	
Cd	111	103	He	0.000	17.64	31.33	5	
Sn	118	103	He	0.002	11.14	493.35	2	
Sb	121	103	He	0.002	9.36	526.69	1	
Ba	137	103	He	0.284	3.58	18239.08	2	
Tl	205	175	He	0.000	12.04	896.72	5	
Pb	208	175	He	0.016	2.59	42491.25	5	
U	238	175	He	0.013	1.47	36876.40	5	

QC ISTD Table

Sample Report

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc (No He)	45	No Gas	1780974.14	2.00	1786932.63	99.67	60	120	
Ge (No He)	72	No Gas	487452.40	0.85	491075.8	99.26	60	120	
Sc	45	He	16141.18	1.10	19446.29	83	60	120	
Ge	72	He	18489.74	2.46	21065.48	87.77	60	120	
Rh	103	He	811348.87	0.20	873163.84	92.92	60	120	
Lu	175	He	429216.48	0.59	442524.836666667	96.99	60	120	

Continuing Calibration Verification (CCV) Report

Sample Name	CCV 14K05175
File Name	080_CCV.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\112814ICPMS8B.b
Acq Time	2014-11-28 21:22:11
Sample Type	CCV
Total Dilution	1.0000
Comment	---
ISTD Ref FileName	001CALB.d
Sample QC Pass/Fial	Fail
ISTD QC Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD	Tune Mode	Conc.	Conc. RSD	CPS	ExpValue	% Rec	%QC Low	%QC High	QC Flag
B	10	45	No Gas	0.097	1.45	17851.97	0.9	10.82	10	10	
B	11	45	No Gas	0.093	1.90	82911.33	0.9	10.38	10	10	
Se	82	72	No Gas	0.101	2.46	25018.66	0.9	11.19	10	10	
Be	9	45	He	0.127	2.12	1477.74	0.9	14.12	10	10	CCV Main CR1 Failed
Na	23	45	He	11.066	1.64	1477488.42	0.9	1229.53	1000	1000	CCV Main CR1 Failed
Mg	24	45	He	10.711	0.50	644747.54	0.9	1190.1	1000	1000	
Al	27	45	He	1.035	3.28	13940.14	0.9	115.01	100	100	
K	39	45	He	9.862	1.25	369047.77	0.9	1095.72	1000	1000	
Ca	43	45	He	10.152	2.66	1323.39	0.9	1128.06	1000	1000	
Ti	47	45	He	0.103	2.68	2050.18	0.9	11.41	10	10	
V	51	45	He	0.110	0.86	123867.49	0.9	12.18	10	10	
Cr	52	45	He	0.112	1.58	169799.24	0.9	12.41	10	10	CCV Main CR1 Failed
Mn	55	72	He	0.103	2.37	52451.79	0.9	11.42	10	10	
Fe	56	72	He	1.047	2.35	1197813.52	0.9	116.28	100	100	
Co	59	72	He	0.110	2.50	377410.12	0.9	12.19	10	10	
Ni	60	72	He	0.111	2.06	113892.59	0.9	12.37	10	10	CCV Main CR1 Failed
Cu	63	72	He	0.112	2.49	333873.51	0.9	12.44	10	10	CCV Main CR1 Failed
Zn	66	72	He	0.108	1.62	29540.53	0.9	11.99	10	10	
As	75	72	He	0.103	1.34	18097.61	0.9	11.49	10	10	
Se	78	72	He	0.095	7.52	517.34	0.9	10.52	10	10	
Sr	88	72	He	0.100	1.76	53574.73	0.9	11.15	10	10	
Mo	95	72	He	0.110	1.51	131541.20	0.9	12.28	10	10	CCV Main CR1 Failed
Ag	107	103	He	0.105	0.78	560567.79	0.9	11.63	10	10	
Cd	111	103	He	0.101	0.93	50862.60	0.9	11.2	10	10	
Sn	118	103	He	0.099	1.26	91620.17	0.9	11.01	10	10	
Sb	121	103	He	0.099	0.94	113433.82	0.9	10.98	10	10	
Ba	137	103	He	0.099	0.94	37080.29	0.9	10.97	10	10	
Tl	205	175	He	0.109	0.26	1300749.33	0.9	12.1	10	10	
Pb	208	175	He	0.114	0.88	1668635.30	0.9	12.67	10	10	CCV Main CR1 Failed
U	238	175	He	0.117	1.55	1836788.36	0.9	13.02	10	10	CCV Main CR1 Failed

QC ISTD Table

Continuing Calibration Verification (CCV) Report

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc (No He)	45	No Gas	1790691.12	2.15	1786932.63	100.21	60	120	
Ge (No He)	72	No Gas	500808.37	1.74	491075.8	101.98	60	120	
Sc	45	He	16660.64	0.24	19446.29	85.68	60	120	
Ge	72	He	19028.21	1.60	21065.48	90.33	60	120	
Rh	103	He	855644.73	0.61	873163.84	97.99	60	120	
Lu	175	He	442393.31	0.75	442524.836666667	99.97	60	120	

Continuing Calibration Blank (CCB) Report

Sample Name	CCB 14K05174
File Name	081_CCB.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\112814ICPMS8B.b
Acq Time	2014-11-28 21:23:59
Sample Type	CCB
Total Dilution	1.0000
Comment	---
ISTD Ref FileName	001CALB.d
Sample QC Pass/Fial	Pass
ISTD QC Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD	Tune Mode	Conc.	Conc. RSD	CPS	Limit	QC Flag
B	10	45	No Gas	0.004	1.92	979.37	0.015	
B	11	45	No Gas	0.004	1.27	4676.75	0.015	
Se	82	72	No Gas	0.000	N/A	983.38	0.00075	
Be	9	45	He	0.000	N/A	0.33	0.00075	
Na	23	45	He	0.072	6.32	19873.57	0.75	
Mg	24	45	He	0.003	5.32	530.02	0.75	
Al	27	45	He	0.001	151.53	33.33	0.0375	
K	39	45	He	-0.004	N/A	4460.76	0.75	
Ca	43	45	He	0.003	538.96	8.67	0.75	
Ti	47	45	He	0.000	N/A	0.00	0.0075	
V	51	45	He	0.000	62.31	83.33	0.0015	
Cr	52	45	He	0.000	273.45	670.03	0.00075	
Mn	55	72	He	0.000	213.86	90.00	0.0015	
Fe	56	72	He	0.001	16.93	6141.41	0.0375	
Co	59	72	He	0.000	N/A	146.67	0.00075	
Ni	60	72	He	0.000	51.79	130.00	0.00075	
Cu	63	72	He	0.000	N/A	246.68	0.0015	
Zn	66	72	He	-0.001	N/A	570.02	0.0075	
As	75	72	He	0.000	25.49	12.89	0.00075	
Se	78	72	He	0.000	107.01	5.67	0.00075	
Sr	88	72	He	0.000	30.24	250.01	0.0075	
Mo	95	72	He	0.000	76.78	33.33	0.0015	
Ag	107	103	He	0.000	7.62	306.68	0.000375	
Cd	111	103	He	0.000	30.80	20.00	0.000375	
Sn	118	103	He	0.000	59.22	273.34	0.00075	
Sb	121	103	He	0.000	28.11	250.01	0.00075	
Ba	137	103	He	0.000	N/A	13.33	0.0015	
Tl	205	175	He	0.000	3.46	636.70	0.00075	
Pb	208	175	He	0.000	26.33	1323.39	0.00075	
U	238	175	He	0.000	N/A	680.03	0.0075	

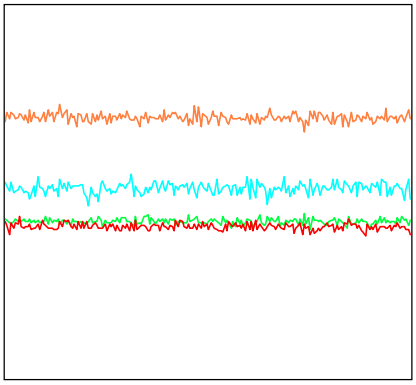
QC ISTD Table

Continuing Calibration Blank (CCB) Report

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc (No He)	45	No Gas	1798610.29	1.50	1786932.63	100.65	60	120	
Ge (No He)	72	No Gas	492993.69	0.54	491075.8	100.39	60	120	
Sc	45	He	16679.54	1.75	19446.29	85.77	60	120	
Ge	72	He	19274.12	1.73	21065.48	91.5	60	120	
Rh	103	He	865833.84	0.35	873163.84	99.16	60	120	
Lu	175	He	446656.91	0.48	442524.836666667	100.93	60	120	

Current Signal

[No Gas]



Mass	Range	Count	Avg. Count	RSD [%]
7	5000	2396	2547.5	2.92
59	50000	21284	21042.3	1.85
89	50000	34855	34987.0	1.71
205	50000	19314	20330.7	2.22
156/140	1	0.794 %	0.726 %	7.34
70/140	2	1.040 %	1.009 %	6.01
103	500	125	128.5	25.48
Integration Time [sec]		0.10		

Plasma Parameters

RF Power	1550	W	Nebulizer Pump	0.30	rps
RF Matching	1.60	V	S/C Temp	2	℃
Smpl Depth	10.0	mm	Gas Switch	Dilution Gas	
Carrier Gas	0.75	L/min	Makeup/Dilution Gas	0.35	L/min
Option Gas	0.0	%			

Lenses Parameters

Extract 1	0.0	V	Cell Entrance	-30	V
Extract 2	-200.0	V	Cell Exit	-52	V
Omega Bias	-80	V	Deflect	15.4	V
Omega Lens	8.8	V	Plate Bias	-40	V

Cell Parameters

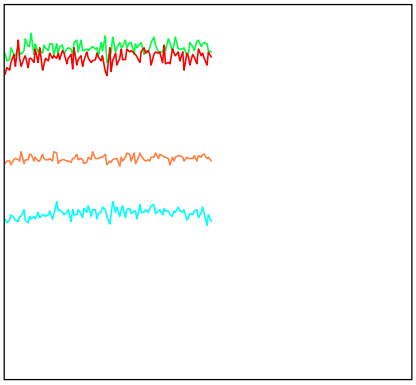
Use Gas	false		OctP Bias	-8.0	V
He Flow	5.0	mL/min	OctP RF	150	V
H2 Flow	0.0	mL/min	Energy Discrimination	5.0	V
3rd Gas Flow	0	%			

Meters

IF/BK Press	1.78E+2	Pa	Water RF/WC/IF	1.45	L/min
TMP Revolution	100.0	%	S/C Temp (L)	1.9	℃
Carrier Gas(BP)	3.20E+2	kPa			

Current Signal

[No Gas]



Mass	Range	Count	Avg. Count	RSD [%]
7	5000	2108	2212.0	2.91
59	20000	17560	17737.0	1.70
89	50000	29154	29479.8	1.44
205	20000	17251	17194.8	2.13
156/140	1	0.702 %	0.684 %	8.99
70/140	2	1.044 %	1.030 %	6.27
103	200	137	145.6	10.01

Integration Time [sec] 0.10

Plasma Parameters

RF Power	1550	W	Nebulizer Pump	0.10	rps
RF Matching	1.60	V	S/C Temp	2	℃
Smpl Depth	10.0	mm	Gas Switch	Dilution Gas	
Carrier Gas	0.75	L/min	Makeup/Dilution Gas	0.35	L/min
Option Gas	0.0	%			

Lenses Parameters

Extract 1	0.0	V	Cell Entrance	-30	V
Extract 2	-200.0	V	Cell Exit	-52	V
Omega Bias	-80	V	Deflect	15.4	V
Omega Lens	8.8	V	Plate Bias	-40	V

Cell Parameters

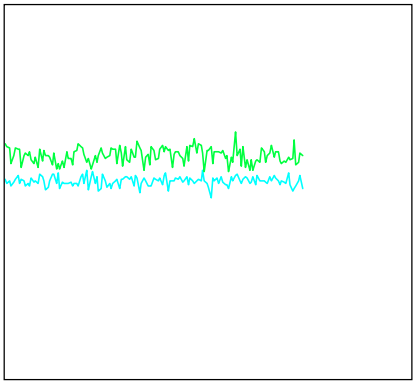
Use Gas	false		OctP Bias	-8.0	V
He Flow	5.0	mL/min	OctP RF	150	V
H2 Flow	0.0	mL/min	Energy Discrimination	5.0	V
3rd Gas Flow	0	%			

Meters

IF/BK Press	1.78E+2	Pa	Water RF/WC/IF	1.49	L/min
TMP Revolution	100.0	%	S/C Temp (L)	2.0	℃
Carrier Gas(BP)	3.20E+2	kPa			

Current Signal

[He]



Mass	Range	Count	Avg. Count	RSD [%]
59	5000	2544	2643.7	2.40
89	2000	1193	1195.9	3.43
51/59	1	0.079 %	0.060 %	89.94
75	20	0	0.2	209.06
78	20	0	0.4	166.60

Integration Time [sec] 0.10

Plasma Parameters

RF Power	1550	W	Nebulizer Pump	0.10	rps
RF Matching	1.60	V	S/C Temp	2	℃
Smpl Depth	10.0	mm	Gas Switch	Dilution Gas	
Carrier Gas	0.75	L/min	Makeup/Dilution Gas	0.35	L/min
Option Gas	0.0	%			

Lenses Parameters

Extract 1	0.0	V	Cell Entrance	-36	V
Extract 2	-200.0	V	Cell Exit	-64	V
Omega Bias	-80	V	Deflect	4.0	V
Omega Lens	8.8	V	Plate Bias	-60	V

Cell Parameters

Use Gas	true		OctP Bias	-18.0	V
He Flow	4.9	mL/min	OctP RF	150	V
H2 Flow	0.0	mL/min	Energy Discrimination	5.0	V
3rd Gas Flow	0	%			

Meters

IF/BK Press	1.79E+2	Pa	Water RF/WC/IF	1.47	L/min
TMP Revolution	100.0	%	S/C Temp (L)	1.9	℃
Carrier Gas(BP)	3.20E+2	kPa			

Tune Report

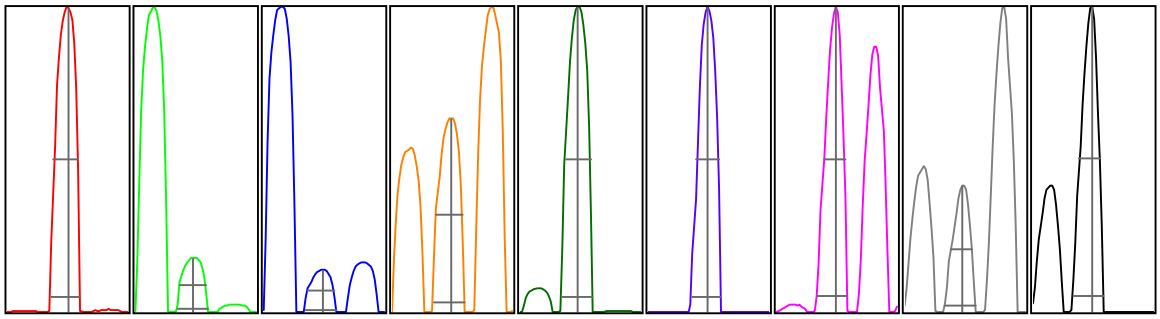
Batch Folder C:\Agilent\ICPMH\1\DATA\112814ICPMS8.b
Acq. Date-Time 2014-11-28 11:30
Report Comment
Instrument Name G8403A JP14080166

[No Gas]

Mass	RSD % (Actual)	RSD % (Required)	RSD % (Flag)
9	0.86	5.00	
24	0.44	5.00	
25	1.56	5.00	
26	0.59	5.00	
59	0.35	5.00	
115	0.59	5.00	
206	0.64	5.00	
207	0.87	5.00	
208	0.80	5.00	

Mass	Rep. 1 Count	Rep. 2 Count	Rep. 3 Count	Rep. 4 Count	Rep. 5 Count
9	5846	5856	5797	5893	5766
24	46527	46055	46239	46410	46087
25	6538	6317	6325	6494	6390
26	7514	7615	7516	7591	7564
59	109001	109663	108998	109681	109765
115	158332	159143	159906	159536	160876
206	29266	29519	29384	29676	29714
207	25330	25269	25369	25798	25607
208	60852	60819	60918	61624	61859

Integration Time [sec] 0.1



Mass	Peak Height	Axis (Actual)	Axis (Required)	Axis (Flag)	W-50 %	W-5 % (Actual)	W-5 % (Required)	W-5 % (Flag)
9	1020.56	9.05	8.9 - 9.1		0.60	0.735	0.850	
24	7658.65	23.95	23.9 - 24.1		0.63	0.776	0.850	
25	1062.50	25.00	24.9 - 25.1		0.64	0.786	0.850	
26	1257.96	26.00	25.9 - 26.1		0.63	0.785	0.850	
59	18772.22	58.95	58.9 - 59.1		0.61	0.780	0.850	
115	30363.09	115.00	114.9 - 115.1		0.54	0.736	0.850	
206	5938.57	206.00	205.9 - 206.1		0.52	0.746	0.850	
207	5150.97	206.95	206.9 - 207.1		0.52	0.751	0.850	
208	12435.09	208.00	207.9 - 208.1		0.51	0.767	0.850	

Tune Report

Integration Time [sec] 0.1 **Acquisition Time [sec]** 212.5 **Y Axis** Linear

Tune Parameters
Plasma Paramters

RF Power	1550 W	Nebulizer Pump	0.10 rps
RF Matching	1.60 V	S/C Temp	2 ℃
Smpl Depth	10.0 mm	Gas Switch	Dilution Gas
Carrier Gas	0.75 L/min	Makeup/Dilution Gas	0.35 L/min
Option Gas	0.0 %		

Lenses Parameters

Extract 1	0.0 V	Cell Entrance	-30 V
Extract 2	-200.0 V	Cell Exit	-52 V
Omega Bias	-80 V	Deflect	15.4 V
Omega Lens	8.8 V	Plate Bias	-40 V

Cell Parameters

Use Gas	false	OctP Bias	-8.0 V
He Flow	0.0 mL/min	OctP RF	150 V
H2 Flow	0.0 mL/min	Energy Discrimination	5.0 V
3rd Gas Flow	0 %		

Calibration Blank Report

Sample Name	CALBLK 14K05174
File Name	001CALB.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\112814ICPMS8.b
Acq Time	2014-11-28 13:15:55
Sample Type	CalBlk
Total Dilution	1.0000
Comment	---
ISTD Ref FileName	001CALB.d
Sample QC Pass/Fial	Pass
ISTD QC Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD	Tune Mode	CPS	CPS RSD
B	11	45	No Gas	279.33	8.30
Se	82	72	No Gas	922.26	2.71
Na	23	45	He	9399.78	3.46
Mg	24	45	He	90.00	29.40
Al	27	45	He	86.67	74.19
K	39	45	He	5807.94	0.61
Ca	43	45	He	5.67	79.57
V	51	45	He	10.00	100.00
Cr	52	45	He	893.38	6.37
Mn	55	72	He	50.00	20.00
Fe	56	72	He	8786.17	5.77
Co	59	72	He	16.67	91.65
Ni	60	72	He	156.67	9.75
Cu	63	72	He	216.67	23.69
Zn	66	72	He	403.35	26.51
As	75	72	He	2.22	34.80
Se	78	72	He	8.00	12.50
Sr	88	72	He	123.33	12.39
Mo	95	72	He	20.00	50.00
Ag	107	103	He	30.00	33.33
Sn	118	103	He	46.67	24.74
Sb	121	103	He	60.00	16.67
Ba	137	103	He	20.00	86.60
Tl	205	175	He	83.33	79.90
Pb	208	175	He	303.34	9.52
Th	232	175	He	33.33	45.83
U	238	175	He	3.33	173.21

QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD
Sc (No He)	45	No Gas	1876742.99	0.31
Ge (No He)	72	No Gas	510472.32	0.72
Sc	45	He	20764.82	1.06
Ge	72	He	22190.49	1.77

Calibration Blank Report

Name	Mass	Tune Mode	CPS	CPS RSD
Rh	103	He	910678.94	0.80
Lu	175	He	458374.48	0.50

Calibration Blank Report

Sample Name	CALBLK 14K05174
File Name	002CALB.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\112814ICPMS8.b
Acq Time	2014-11-28 13:18:21
Sample Type	CalBlk
Total Dilution	1.0000
Comment	---
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fial	Pass
ISTD QC Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD	Tune Mode	CPS	CPS RSD
B	11	45	No Gas	280.67	9.73
Se	82	72	No Gas	911.15	2.70
Na	23	45	He	9566.55	3.25
Mg	24	45	He	113.33	13.48
Al	27	45	He	63.33	24.12
K	39	45	He	5711.22	9.23
Ca	43	45	He	9.67	15.80
Ti	47	45	He	10.00	173.21
V	51	45	He	26.67	57.28
Cr	52	45	He	843.37	13.49
Mn	55	72	He	43.33	66.62
Fe	56	72	He	4717.51	7.94
Co	59	72	He	10.00	0.00
Ni	60	72	He	126.67	37.31
Cu	63	72	He	183.34	13.73
Zn	66	72	He	506.69	7.47
As	75	72	He	2.22	124.96
Se	78	72	He	5.33	28.64
Sr	88	72	He	126.67	27.73
Mo	95	72	He	3.33	173.21
Ag	107	103	He	10.00	0.00
Sn	118	103	He	36.67	56.77
Sb	121	103	He	43.33	13.32
Ba	137	103	He	23.33	65.47
Tl	205	175	He	56.67	61.97
Pb	208	175	He	290.00	31.61
Th	232	175	He	20.00	100.00
U	238	175	He	6.67	86.60

QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD
Sc (No He)	45	No Gas	1916000.44	0.90
Ge (No He)	72	No Gas	518337.46	1.36
Sc	45	He	20542.30	1.40

Calibration Blank Report

Name	Mass	Tune Mode	CPS	CPS RSD
Ge	72	He	21932.34	1.43
Rh	103	He	910360.35	0.31
Lu	175	He	456033.24	0.62

Calibration Standard Report

Sample Name	STD1 14K05175
File Name	003CALS.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\112814ICPMS8.b
Acq Time	2014-11-28 13:20:07
Sample Type	CalStd
Total Dilution	1.0000
Comment	---
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fial	Pass
ISTD QC Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD	Tune Mode	CPS	CPS RSD
B	11	45	No Gas	1219.39	2.47
Se	82	72	No Gas	1214.50	1.30
Be	9	45	He	13.00	30.77
Na	23	45	He	25933.00	1.33
Mg	24	45	He	7598.73	1.10
Al	27	45	He	230.00	27.15
K	39	45	He	10520.64	6.00
Ca	43	45	He	23.00	4.35
Ti	47	45	He	30.00	33.33
V	51	45	He	1386.76	4.10
Cr	52	45	He	2810.32	2.83
Mn	55	72	He	723.37	18.77
Fe	56	72	He	16239.31	3.11
Co	59	72	He	4033.97	7.80
Ni	60	72	He	1266.74	12.59
Cu	63	72	He	3760.56	3.23
Zn	66	72	He	496.68	17.59
As	75	72	He	201.78	9.90
Se	78	72	He	9.33	68.88
Sr	88	72	He	730.03	5.48
Mo	95	72	He	1400.10	2.86
Ag	107	103	He	5654.57	0.67
Cd	111	103	He	545.34	5.55
Sn	118	103	He	1000.06	5.57
Sb	121	103	He	1186.74	12.76
Ba	137	103	He	430.02	22.19
Tl	205	175	He	11598.60	5.45
Pb	208	175	He	14956.96	4.24
Th	232	175	He	10.00	173.21
U	238	175	He	14858.83	0.74

QC ISTD Table

Calibration Standard Report

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc (No He)	45	No Gas	1886350.03	0.70	1916000.44	98.45	60	120	
Ge (No He)	72	No Gas	514220.69	0.75	518337.463333333	99.21	60	120	
Sc	45	He	20557.82	1.36	20542.3	100.08	60	120	
Ge	72	He	22271.75	1.11	21932.34	101.55	60	120	
Rh	103	He	910375.67	0.39	910360.35	100	60	120	
Lu	175	He	457804.81	0.74	456033.236666667	100.39	60	120	

Calibration Standard Report

Sample Name	STD2 14K05175
File Name	004CALS.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\112814ICPMS8.b
Acq Time	2014-11-28 13:21:52
Sample Type	CalStd
Total Dilution	1.0000
Comment	---
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fial	Pass
ISTD QC Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD	Tune Mode	CPS	CPS RSD
B	11	45	No Gas	2159.50	1.02
Se	82	72	No Gas	1367.85	7.53
Be	9	45	He	33.00	8.02
Na	23	45	He	41792.45	0.40
Mg	24	45	He	14984.48	0.71
Al	27	45	He	380.01	12.06
K	39	45	He	15004.54	4.33
Ca	43	45	He	47.33	12.91
Ti	47	45	He	36.67	41.66
V	51	45	He	2780.33	7.38
Cr	52	45	He	4704.20	5.64
Mn	55	72	He	1330.08	7.92
Fe	56	72	He	30642.71	4.14
Co	59	72	He	8279.16	3.74
Ni	60	72	He	2570.26	2.43
Cu	63	72	He	7548.75	4.18
Zn	66	72	He	873.38	15.38
As	75	72	He	420.01	4.20
Se	78	72	He	19.67	15.53
Sr	88	72	He	1356.76	9.36
Mo	95	72	He	2666.97	2.91
Ag	107	103	He	11354.81	0.58
Cd	111	103	He	1141.38	4.13
Sn	118	103	He	1916.84	3.95
Sb	121	103	He	2623.63	5.36
Ba	137	103	He	826.71	6.09
Tl	205	175	He	23444.57	2.94
Pb	208	175	He	30177.56	2.92
Th	232	175	He	13.33	173.21
U	238	175	He	30867.21	3.25

QC ISTD Table

Calibration Standard Report

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc (No He)	45	No Gas	1887124.14	0.63	1916000.44	98.49	60	120	
Ge (No He)	72	No Gas	513998.78	0.82	518337.463333333	99.16	60	120	
Sc	45	He	20817.06	0.80	20542.3	101.34	60	120	
Ge	72	He	22575.57	1.21	21932.34	102.93	60	120	
Rh	103	He	918749.21	0.29	910360.35	100.92	60	120	
Lu	175	He	464515.12	0.44	456033.236666667	101.86	60	120	

Calibration Standard Report

Sample Name	STD3 14K05175
File Name	005CALS.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\112814ICPMS8.b
Acq Time	2014-11-28 13:23:36
Sample Type	CalStd
Total Dilution	1.0000
Comment	---
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fial	Pass
ISTD QC Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD	Tune Mode	CPS	CPS RSD
B	11	45	No Gas	9534.38	2.62
Se	82	72	No Gas	3313.73	4.18
Be	9	45	He	144.67	5.76
Na	23	45	He	170592.84	2.47
Mg	24	45	He	73884.07	3.41
Al	27	45	He	1566.78	4.25
K	39	45	He	51480.93	0.46
Ca	43	45	He	147.33	9.26
Ti	47	45	He	263.34	12.21
V	51	45	He	13843.46	4.74
Cr	52	45	He	18665.58	4.22
Mn	55	72	He	6188.12	4.96
Fe	56	72	He	138259.24	3.70
Co	59	72	He	40249.77	2.90
Ni	60	72	He	11921.73	3.33
Cu	63	72	He	35941.72	1.27
Zn	66	72	He	3247.08	4.93
As	75	72	He	1980.14	1.78
Se	78	72	He	73.00	3.62
Sr	88	72	He	6591.64	6.14
Mo	95	72	He	13813.64	9.03
Ag	107	103	He	55877.95	1.84
Cd	111	103	He	5289.69	6.34
Sn	118	103	He	10027.13	5.58
Sb	121	103	He	11778.48	5.40
Ba	137	103	He	3933.97	2.60
Tl	205	175	He	117087.81	2.49
Pb	208	175	He	149076.22	3.23
Th	232	175	He	46.67	12.37
U	238	175	He	151752.33	3.63

QC ISTD Table

Calibration Standard Report

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc (No He)	45	No Gas	1944101.64	0.16	1916000.44	101.47	60	120	
Ge (No He)	72	No Gas	527355.93	0.99	518337.463333333	101.74	60	120	
Sc	45	He	21010.71	4.03	20542.3	102.28	60	120	
Ge	72	He	22795.90	0.71	21932.34	103.94	60	120	
Rh	103	He	925030.82	1.26	910360.35	101.61	60	120	
Lu	175	He	472317.57	1.32	456033.236666667	103.57	60	120	

Calibration Standard Report

Sample Name	STD4 14K05175
File Name	006CALS.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\112814ICPMS8.b
Acq Time	2014-11-28 13:25:22
Sample Type	CalStd
Total Dilution	1.0000
Comment	---
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fial	Pass
ISTD QC Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD	Tune Mode	CPS	CPS RSD
B	11	45	No Gas	48033.41	3.24
Se	82	72	No Gas	12780.22	2.74
Be	9	45	He	730.69	4.02
Na	23	45	He	832714.15	1.15
Mg	24	45	He	375215.63	3.28
Al	27	45	He	8866.16	7.30
K	39	45	He	234387.42	1.40
Ca	43	45	He	839.69	3.29
Ti	47	45	He	1163.40	6.04
V	51	45	He	70882.50	3.85
Cr	52	45	He	95560.28	5.99
Mn	55	72	He	31120.40	5.02
Fe	56	72	He	685843.99	4.23
Co	59	72	He	206001.48	3.60
Ni	60	72	He	61527.52	2.79
Cu	63	72	He	180089.72	3.44
Zn	66	72	He	16663.17	2.47
As	75	72	He	10457.60	1.45
Se	78	72	He	317.67	2.14
Sr	88	72	He	32100.12	2.92
Mo	95	72	He	68968.31	4.78
Ag	107	103	He	287220.35	1.97
Cd	111	103	He	27374.72	2.79
Sn	118	103	He	50364.89	5.81
Sb	121	103	He	62464.03	2.08
Ba	137	103	He	20198.52	7.54
Tl	205	175	He	591574.48	0.24
Pb	208	175	He	751240.80	2.14
Th	232	175	He	176.67	43.23
U	238	175	He	772867.51	4.37

QC ISTD Table

Calibration Standard Report

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc (No He)	45	No Gas	2053954.50	4.73	1916000.44	107.2	60	120	
Ge (No He)	72	No Gas	552594.05	4.29	518337.463333333	106.61	60	120	
Sc	45	He	21010.68	0.99	20542.3	102.28	60	120	
Ge	72	He	22440.90	0.56	21932.34	102.32	60	120	
Rh	103	He	916047.82	0.92	910360.35	100.62	60	120	
Lu	175	He	471826.89	1.68	456033.236666667	103.46	60	120	

Calibration Standard Report

Sample Name	STD5 14K05175
File Name	007CALS.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\112814ICPMS8.b
Acq Time	2014-11-28 13:28:09
Sample Type	CalStd
Total Dilution	1.0000
Comment	---
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fial	Pass
ISTD QC Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD	Tune Mode	CPS	CPS RSD
B	11	45	No Gas	94092.08	0.71
Se	82	72	No Gas	24573.43	1.04
Be	9	45	He	1341.40	4.35
Na	23	45	He	1583573.99	1.24
Mg	24	45	He	717681.81	2.18
Al	27	45	He	16756.45	4.49
K	39	45	He	439196.67	0.89
Ca	43	45	He	1534.75	2.75
Ti	47	45	He	2473.58	5.61
V	51	45	He	132729.44	1.97
Cr	52	45	He	180072.35	3.84
Mn	55	72	He	58116.59	2.45
Fe	56	72	He	1280749.80	4.17
Co	59	72	He	386949.06	3.83
Ni	60	72	He	113884.64	2.46
Cu	63	72	He	336889.95	2.27
Zn	66	72	He	31441.50	3.55
As	75	72	He	19677.49	2.09
Se	78	72	He	620.01	5.88
Sr	88	72	He	60572.84	2.39
Mo	95	72	He	131173.38	3.06
Ag	107	103	He	539207.39	3.33
Cd	111	103	He	51032.74	3.25
Sn	118	103	He	94443.50	5.00
Sb	121	103	He	115641.76	5.30
Ba	137	103	He	37826.21	6.15
Tl	205	175	He	1132329.88	2.14
Pb	208	175	He	1468649.89	1.53
U	238	175	He	1504538.93	2.97

QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc (No He)	45	No Gas	1928728.41	1.35	1916000.44	100.66	60	120	
Ge (No He)	72	No Gas	523542.02	0.71	518337.463333333	101	60	120	

Calibration Standard Report

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc	45	He	20471.09	0.96	20542.3	99.65	60	120	
Ge	72	He	21983.61	2.03	21932.34	100.23	60	120	
Rh	103	He	896660.12	0.95	910360.35	98.5	60	120	
Lu	175	He	463699.51	2.31	456033.236666667	101.68	60	120	

Calibration Standard Report

Sample Name	STD6 14K05175
File Name	008CALS.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\112814ICPMS8.b
Acq Time	2014-11-28 13:29:51
Sample Type	CalStd
Total Dilution	1.0000
Comment	---
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fial	Pass
ISTD QC Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD	Tune Mode	CPS	CPS RSD
B	11	45	No Gas	195437.09	1.52
Se	82	72	No Gas	48079.60	0.39
Be	9	45	He	2856.28	1.62
Na	23	45	He	3228538.70	0.67
Mg	24	45	He	1473309.20	1.95
Al	27	45	He	34921.57	1.88
K	39	45	He	903925.72	0.33
Ca	43	45	He	3228.69	3.47
Ti	47	45	He	5064.32	13.03
V	51	45	He	278410.91	1.88
Cr	52	45	He	374123.37	2.16
Mn	55	72	He	121727.49	2.32
Fe	56	72	He	2721512.46	2.98
Co	59	72	He	801997.69	2.04
Ni	60	72	He	238235.07	1.78
Cu	63	72	He	695801.00	1.91
Zn	66	72	He	64789.25	3.64
As	75	72	He	40636.90	1.25
Se	78	72	He	1238.06	2.59
Sr	88	72	He	127247.10	1.55
Mo	95	72	He	273948.38	1.36
Ag	107	103	He	1100555.90	3.07
Cd	111	103	He	106997.69	1.96
Sn	118	103	He	198435.66	2.09
Sb	121	103	He	243764.52	1.08
Ba	137	103	He	80371.06	1.01
Tl	205	175	He	2495660.07	0.39
Pb	208	175	He	3021504.07	1.26
U	238	175	He	3303635.47	2.16

QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc (No He)	45	No Gas	1963679.66	0.65	1916000.44	102.49	60	120	
Ge (No He)	72	No Gas	525873.99	0.81	518337.463333333	101.45	60	120	

Calibration Standard Report

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc	45	He	20693.58	0.80	20542.3	100.74	60	120	
Ge	72	He	22243.93	1.07	21932.34	101.42	60	120	
Rh	103	He	908856.94	0.66	910360.35	99.83	60	120	
Lu	175	He	480147.86	0.52	456033.236666667	105.29	60	120	

Initial Calibration Verification (ICV) Report

Sample Name	ICV 14K05178
File Name	009_ICV.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\112814ICPMS8.b
Acq Time	2014-11-28 13:31:31
Sample Type	ICV
Total Dilution	1.0000
Comment	---
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fial	Pass
ISTD QC Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD	Tune Mode	Conc.	Conc. RSD	CPS	ExpValue	% Rec	%QC Low	%QC High	QC Flag
B	10	45	No Gas	0.105	1.76	20808.44	0.9	11.72	10	10	
B	11	45	No Gas	0.106	1.36	101802.77	0.9	11.74	10	10	
Se	82	72	No Gas	0.105	1.95	25361.48	0.9	11.65	10	10	
Be	9	45	He	0.103	2.09	1444.74	0.9	11.47	10	10	
Na	23	45	He	10.394	0.26	1661428.99	0.9	1154.93	1000	1000	
Mg	24	45	He	10.334	1.68	750904.78	0.9	1148.23	1000	1000	
Al	27	45	He	1.035	1.78	17794.29	0.9	115.05	100	100	
K	39	45	He	10.177	1.35	455754.66	0.9	1130.79	1000	1000	
Ca	43	45	He	10.560	1.34	1678.76	0.9	1173.37	1000	1000	
Ti	47	45	He	0.105	2.38	2606.94	0.9	11.63	10	10	
V	51	45	He	0.105	0.65	143515.94	0.9	11.66	10	10	
Cr	52	45	He	0.108	1.56	199115.22	0.9	12	10	10	
Mn	55	72	He	0.104	1.62	63680.00	0.9	11.57	10	10	
Fe	56	72	He	1.040	0.37	1419703.78	0.9	115.6	100	100	
Co	59	72	He	0.105	2.62	423298.33	0.9	11.65	10	10	
Ni	60	72	He	0.104	1.72	124969.82	0.9	11.59	10	10	
Cu	63	72	He	0.104	2.24	365883.00	0.9	11.59	10	10	
Zn	66	72	He	0.104	2.12	33993.69	0.9	11.51	10	10	
As	75	72	He	0.104	1.33	21282.86	0.9	11.55	10	10	
Se	78	72	He	0.102	1.61	640.68	0.9	11.31	10	10	
Sr	88	72	He	0.102	2.00	64871.50	0.9	11.28	10	10	
Mo	95	72	He	0.103	0.10	142002.39	0.9	11.46	10	10	
Ag	107	103	He	0.104	0.20	582948.73	0.9	11.6	10	10	
Cd	111	103	He	0.104	0.40	55943.86	0.9	11.52	10	10	
Sn	118	103	He	0.102	1.23	102029.40	0.9	11.34	10	10	
Sb	121	103	He	0.101	1.42	124443.82	0.9	11.26	10	10	
Ba	137	103	He	0.104	2.05	42001.33	0.9	11.55	10	10	
Tl	205	175	He	0.099	0.86	1229093.68	0.9	11.05	10	10	
Pb	208	175	He	0.103	0.98	1565408.62	0.9	11.45	10	10	
U	238	175	He	0.101	1.03	1648339.30	0.9	11.19	10	10	

QC ISTD Table

Initial Calibration Verification (ICV) Report

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc (No He)	45	No Gas	1948157.06	1.96	1916000.44	101.68	60	120	
Ge (No He)	72	No Gas	520321.80	0.66	518337.463333333	100.38	60	120	
Sc	45	He	20471.03	1.32	20542.3	99.65	60	120	
Ge	72	He	22483.21	1.93	21932.34	102.51	60	120	
Rh	103	He	921578.50	0.42	910360.35	101.23	60	120	
Lu	175	He	481973.86	0.97	456033.236666667	105.69	60	120	

Initial Calibration Blank (ICB) Report

Sample Name	ICB 14K05174
File Name	010_ICB.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\112814ICPMS8.b
Acq Time	2014-11-28 13:33:05
Sample Type	ICB
Total Dilution	1.0000
Comment	---
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fial	Fail
ISTD QC Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD	Tune Mode	Conc.	Conc. RSD	CPS	Limit	QC Flag
B	10	45	No Gas	0.006	3.45	1130.71	0.00075	ICB Main CR1 Failed
B	11	45	No Gas	0.006	4.57	5461.01	0.015	
Se	82	72	No Gas	0.000	191.65	950.04	0.00075	
Be	9	45	He	0.000	NaN	0.00	0.00075	
Na	23	45	He	0.004	29.37	10013.56	0.75	
Mg	24	45	He	0.004	19.63	386.68	0.75	
Al	27	45	He	-0.002	N/A	23.33	0.0375	
K	39	45	He	0.008	46.19	5961.32	0.75	
Ca	43	45	He	0.012	379.58	11.33	0.75	
Ti	47	45	He	0.000	N/A	0.00	0.0075	
V	51	45	He	0.000	54.28	83.33	0.0015	
Cr	52	45	He	0.000	71.93	973.39	0.00075	
Mn	55	72	He	0.000	251.70	70.00	0.0015	
Fe	56	72	He	0.000	N/A	4530.80	0.0375	
Co	59	72	He	0.000	8.39	190.00	0.00075	
Ni	60	72	He	0.000	121.30	223.34	0.00075	
Cu	63	72	He	0.000	10.62	366.68	0.0015	
Zn	66	72	He	0.000	N/A	463.35	0.0075	
As	75	72	He	0.000	70.20	15.55	0.00075	
Se	78	72	He	0.000	N/A	5.00	0.00075	
Sr	88	72	He	0.000	65.76	190.00	0.0075	
Mo	95	72	He	0.000	50.78	43.33	0.0015	
Ag	107	103	He	0.000	13.63	1443.44	0.000375	
Cd	111	103	He	0.000	13.47	30.00	0.000375	
Sn	118	103	He	0.000	108.07	156.67	0.00075	
Sb	121	103	He	0.000	21.34	606.69	0.00075	
Ba	137	103	He	0.000	104.27	40.00	0.0015	
Tl	205	175	He	0.000	13.85	620.03	0.00075	
Pb	208	175	He	0.000	16.51	1223.38	0.00075	
U	238	175	He	0.000	7.38	786.71	0.0075	

QC ISTD Table

Initial Calibration Blank (ICB) Report

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc (No He)	45	No Gas	1903954.66	0.92	1916000.44	99.37	60	120	
Ge (No He)	72	No Gas	519552.66	0.54	518337.463333333	100.23	60	120	
Sc	45	He	20239.61	2.52	20542.3	98.53	60	120	
Ge	72	He	22239.48	2.28	21932.34	101.4	60	120	
Rh	103	He	914123.84	0.72	910360.35	100.41	60	120	
Lu	175	He	471261.77	0.63	456033.236666667	103.34	60	120	

Low Level Initial Calibration Verification(LLICV) Report

Sample Name	LLICV 14K05179
File Name	012LICV.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\112814ICPMS8.b
Acq Time	2014-11-28 13:36:48
Sample Type	LLICV
Total Dilution	1.0000
Comment	---
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fial	Pass
ISTD QC Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD	Tune Mode	Conc.	Conc. RSD	CPS	ExpValue	% Rec	%QC Low	%QC High	QC Flag
Se	82	72	No Gas	0.001	14.59	1180.06	0.001	123.64	70	130	
Be	9	45	He	0.001	5.77	17.00	0.001	121.24	70	130	
V	51	45	He	0.002	3.10	2686.96	0.002	97.1	70	130	
Cr	52	45	He	0.001	18.04	2700.30	0.001	101.16	70	130	
Mn	55	72	He	0.002	7.32	1183.40	0.002	93.43	70	130	
Co	59	72	He	0.001	3.45	4257.36	0.001	105.5	70	130	
Ni	60	72	He	0.001	3.73	1503.44	0.001	115.14	70	130	
Cu	63	72	He	0.001	2.62	3643.87	0.001	98.9	70	130	
Zn	66	72	He	0.009	4.72	3397.12	0.01	89.45	70	130	
As	75	72	He	0.001	7.58	222.22	0.001	107.73	70	130	
Se	78	72	He	0.001	74.13	12.33	0.001	110.87	70	130	
Mo	95	72	He	0.002	4.07	2726.98	0.002	99.26	70	130	
Ag	107	103	He	0.001	1.98	2973.69	0.0005	106.75	70	130	
Cd	111	103	He	0.001	4.57	273.33	0.0005	101.85	70	130	
Sn	118	103	He	0.001	11.17	1033.40	0.001	100.26	70	130	
Sb	121	103	He	0.001	12.56	1626.79	0.001	129.71	70	130	
Ba	137	103	He	0.002	4.77	860.04	0.002	104.17	70	130	
Tl	205	175	He	0.001	4.47	11788.85	0.001	98.12	70	130	
Pb	208	175	He	0.001	4.43	15697.34	0.001	104.83	70	130	

QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc (No He)	45	No Gas	1853733.93	2.68	1916000.44	96.75	60	120	
Ge (No He)	72	No Gas	510288.25	0.62	518337.463333333	98.45	60	120	
Sc	45	He	20503.27	0.35	20542.3	99.81	60	120	
Ge	72	He	22407.53	0.80	21932.34	102.17	60	120	
Rh	103	He	916766.39	0.61	910360.35	100.7	60	120	
Lu	175	He	466151.49	0.81	456033.236666667	102.22	60	120	

Interference Check Solution A (ICS-A) Report

Sample Name	ICSA 14K05180
File Name	013ICSA.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\112814ICPMS8.b
Acq Time	2014-11-28 13:38:36
Sample Type	ICSA
Total Dilution	1.0000
Comment	---
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fial	Pass
ISTD QC Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD	Tune Mode	Conc.	Conc. RSD	CPS	ExpValue	%QC Low	%QC High	QC Flag
Na	23	45	He	95.077	1.54	14734463.53	0.8	10000	10000	
Mg	24	45	He	95.228	2.25	6742583.65	0.8	10000	10000	
Al	27	45	He	97.372	2.29	1625055.86	0.8	10000	10000	
K	39	45	He	90.712	2.51	3914776.50	0.8	10000	10000	
Ca	43	45	He	87.515	2.22	13487.53	0.8	10000	10000	
Ti	47	45	He	1.958	2.05	47336.88	0.8	200	200	
Fe	56	72	He	95.869	0.66	124817011.47	0.8	10000	10000	
Mo	95	72	He	2.035	0.44	2681435.48	0.8	200	200	

QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc (No He)	45	No Gas	1877159.97	0.56	1916000.44	97.97	60	120	
Ge (No He)	72	No Gas	516973.23	0.66	518337.463333333	99.74	60	120	
Sc	45	He	19952.59	1.87	20542.3	97.13	60	120	
Ge	72	He	21523.96	0.60	21932.34	98.14	60	120	
Rh	103	He	852844.57	0.58	910360.35	93.68	60	120	
Lu	175	He	467193.82	0.52	456033.236666667	102.45	60	120	

Interference Check Solution AB (ICS-AB) Report

Sample Name	ICSAB 14K05181
File Name	014ICSB.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\112814ICPMS8.b
Acq Time	2014-11-28 13:40:07
Sample Type	ICSB
Total Dilution	1.0000
Comment	---
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fial	Pass
ISTD QC Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD	Tune Mode	Conc.	Conc. RSD	CPS	ExpValue	%QC Low	%QC High	QC Flag

QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc (No He)	45	No Gas	1826368.72	0.29	1916000.44	95.32	60	120	
Ge (No He)	72	No Gas	509375.05	0.86	518337.463333333	98.27	60	120	
Sc	45	He	19243.79	2.27	20542.3	93.68	60	120	
Ge	72	He	21259.12	1.74	21932.34	96.93	60	120	
Rh	103	He	828164.23	0.43	910360.35	90.97	60	120	
Lu	175	He	453355.92	0.83	456033.236666667	99.41	60	120	

Continuing Calibration Verification (CCV) Report

Sample Name	CCV 14K05175
File Name	060_CCV.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\112814ICPMS8.b
Acq Time	2014-11-28 15:26:02
Sample Type	CCV
Total Dilution	1.0000
Comment	---
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fial	Fail
ISTD QC Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD	Tune Mode	Conc.	Conc. RSD	CPS	ExpValue	% Rec	%QC Low	%QC High	QC Flag
B	10	45	No Gas	0.102	1.82	19718.97	0.9	11.36	10	10	
B	11	45	No Gas	0.100	1.82	94461.26	0.9	11.14	10	10	
Se	82	72	No Gas	0.102	1.41	24727.03	0.9	11.32	10	10	
Be	9	45	He	0.113	0.41	1511.75	0.9	12.52	10	10	CCV Main CR1 Failed
Na	23	45	He	10.583	1.43	1620815.03	0.9	1175.89	1000	1000	
Mg	24	45	He	10.321	0.64	718783.14	0.9	1146.76	1000	1000	
Al	27	45	He	1.002	3.73	16499.45	0.9	111.32	100	100	
K	39	45	He	9.783	1.21	420063.33	0.9	1086.96	1000	1000	
Ca	43	45	He	9.913	1.01	1510.75	0.9	1101.45	1000	1000	
Ti	47	45	He	0.095	13.32	2263.55	0.9	10.54	10	10	
V	51	45	He	0.103	0.67	134476.96	0.9	11.4	10	10	
Cr	52	45	He	0.104	0.66	183335.10	0.9	11.53	10	10	
Mn	55	72	He	0.101	3.74	58103.03	0.9	11.22	10	10	
Fe	56	72	He	1.018	0.90	1306599.82	0.9	113.09	100	100	
Co	59	72	He	0.104	1.39	395180.57	0.9	11.56	10	10	
Ni	60	72	He	0.106	1.05	119174.82	0.9	11.75	10	10	
Cu	63	72	He	0.106	1.02	348287.62	0.9	11.73	10	10	
Zn	66	72	He	0.104	1.96	32109.45	0.9	11.56	10	10	
As	75	72	He	0.102	2.04	19744.67	0.9	11.39	10	10	
Se	78	72	He	0.099	5.49	585.68	0.9	10.98	10	10	
Sr	88	72	He	0.099	2.44	59585.04	0.9	11.01	10	10	
Mo	95	72	He	0.106	0.70	136641.83	0.9	11.73	10	10	
Ag	107	103	He	0.104	0.54	569942.28	0.9	11.57	10	10	
Cd	111	103	He	0.100	0.46	52929.55	0.9	11.12	10	10	
Sn	118	103	He	0.100	1.22	97809.21	0.9	11.09	10	10	
Sb	121	103	He	0.099	1.03	119604.80	0.9	11.04	10	10	
Ba	137	103	He	0.101	1.96	40172.36	0.9	11.27	10	10	
Tl	205	175	He	0.103	0.89	1260611.07	0.9	11.39	10	10	
Pb	208	175	He	0.107	0.69	1614974.22	0.9	11.87	10	10	
U	238	175	He	0.107	0.56	1740233.72	0.9	11.88	10	10	

QC ISTD Table

Continuing Calibration Verification (CCV) Report

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc (No He)	45	No Gas	1904633.30	1.62	1916000.44	99.41	60	120	
Ge (No He)	72	No Gas	521663.31	0.82	518337.463333333	100.64	60	120	
Sc	45	He	19618.75	1.42	20542.3	95.5	60	120	
Ge	72	He	21150.04	1.07	21932.34	96.43	60	120	
Rh	103	He	903294.12	0.21	910360.35	99.22	60	120	
Lu	175	He	479479.43	0.95	456033.236666667	105.14	60	120	

Continuing Calibration Blank (CCB) Report

Sample Name	CCB 14K05174
File Name	061_CCB.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\112814ICPMS8.b
Acq Time	2014-11-28 15:27:33
Sample Type	CCB
Total Dilution	1.0000
Comment	---
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fial	Pass
ISTD QC Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD	Tune Mode	Conc.	Conc. RSD	CPS	Limit	QC Flag
B	10	45	No Gas	0.004	8.67	858.69	0.015	
B	11	45	No Gas	0.004	3.21	3910.52	0.015	
Se	82	72	No Gas	0.000	136.98	965.60	0.00075	
Be	9	45	He	0.000	99.45	1.00	0.00075	
Na	23	45	He	0.032	3.95	13526.35	0.75	
Mg	24	45	He	0.010	10.28	756.70	0.75	
Al	27	45	He	0.000	N/A	56.67	0.0375	
K	39	45	He	0.006	79.52	5537.83	0.75	
Ca	43	45	He	-0.011	N/A	7.33	0.75	
Ti	47	45	He	0.000	N/A	0.00	0.0075	
V	51	45	He	0.000	20.47	110.00	0.0015	
Cr	52	45	He	0.000	48.69	923.38	0.00075	
Mn	55	72	He	0.000	52.18	123.33	0.0015	
Fe	56	72	He	0.000	31.62	5104.32	0.0375	
Co	59	72	He	0.000	34.79	296.68	0.00075	
Ni	60	72	He	0.002	14.92	2076.86	0.00075	CCB Main CR1 Failed
Cu	63	72	He	0.000	13.84	613.36	0.0015	
Zn	66	72	He	0.000	N/A	426.68	0.0075	
As	75	72	He	0.000	4.94	18.22	0.00075	
Se	78	72	He	0.000	680.36	5.67	0.00075	
Sr	88	72	He	0.000	381.97	143.34	0.0075	
Mo	95	72	He	0.000	54.25	106.67	0.0015	
Ag	107	103	He	0.000	27.06	483.35	0.000375	
Cd	111	103	He	0.000	21.68	42.67	0.000375	
Sn	118	103	He	0.000	37.37	90.00	0.00075	
Sb	121	103	He	0.000	34.13	300.01	0.00075	
Ba	137	103	He	0.000	101.70	53.33	0.0015	
Tl	205	175	He	0.000	23.75	973.39	0.00075	
Pb	208	175	He	0.000	17.26	1916.77	0.00075	
U	238	175	He	0.000	15.31	1380.10	0.0075	

QC ISTD Table

Continuing Calibration Blank (CCB) Report

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc (No He)	45	No Gas	1867973.31	0.93	1916000.44	97.49	60	120	
Ge (No He)	72	No Gas	511211.72	0.50	518337.463333333	98.63	60	120	
Sc	45	He	19002.37	0.83	20542.3	92.5	60	120	
Ge	72	He	20857.40	1.06	21932.34	95.1	60	120	
Rh	103	He	909761.06	0.56	910360.35	99.93	60	120	
Lu	175	He	469543.61	1.91	456033.236666667	102.96	60	120	

Sample Report

Sample Name	BLANK WG756921
File Name	062SMPL.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\112814ICPMS8.b
Acq Time	2014-11-28 15:29:21
Sample Type	Sample
Total Dilution	1.1111
Comment	---
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fial	Pass
ISTD QC Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD	Tune Mode	Conc.	Conc. RSD	CPS	LDR	QC Flag
B	10	45	No Gas	0.004	8.69	554.68	5	
B	11	45	No Gas	0.003	4.83	2508.22	5	
Se	82	72	No Gas	0.001	60.11	850.03	5	
Be	9	45	He	0.000	NaN	0.00	5	
Na	23	45	He	0.101	4.20	16743.00	90	
Mg	24	45	He	0.003	56.84	220.00	90	
Al	27	45	He	0.002	154.19	66.67	90	
K	39	45	He	0.021	39.98	4550.78	90	
Ca	43	45	He	-0.024	N/A	4.33	90	
Ti	47	45	He	0.000	N/A	6.67	5	
V	51	45	He	0.000	33.90	150.00	5	
Cr	52	45	He	0.000	11.17	1016.72	5	
Mn	55	72	He	0.001	9.35	250.01	5	
Fe	56	72	He	0.007	4.69	9646.66	90	
Co	59	72	He	0.000	10.64	90.00	5	
Ni	60	72	He	0.000	41.61	293.34	5	
Cu	63	72	He	0.001	2.30	3393.79	5	
Zn	66	72	He	-0.001	N/A	166.67	5	
As	75	72	He	0.000	8.18	37.33	5	
Se	78	72	He	0.000	150.27	4.67	5	
Sr	88	72	He	0.000	N/A	73.33	5	
Mo	95	72	He	0.000	82.48	53.33	5	
Ag	107	103	He	0.000	6.87	296.68	1	
Cd	111	103	He	0.000	13.06	17.33	5	
Sn	118	103	He	0.001	12.46	960.05	2	
Sb	121	103	He	0.004	8.19	3473.84	1	
Ba	137	103	He	0.000	N/A	16.67	2	
Tl	205	175	He	0.000	50.37	226.67	5	
Pb	208	175	He	0.000	8.72	1383.39	5	
U	238	175	He	0.000	48.12	216.67	5	

QC ISTD Table

Sample Report

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc (No He)	45	No Gas	1515801.12	1.18	1916000.44	79.11	60	120	
Ge (No He)	72	No Gas	427160.78	0.39	518337.463333333	82.41	60	120	
Sc	45	He	14307.06	1.71	20542.3	69.65	60	120	
Ge	72	He	16200.31	1.62	21932.34	73.86	60	120	
Rh	103	He	740207.80	0.77	910360.35	81.31	60	120	
Lu	175	He	383668.82	0.34	456033.236666667	84.13	60	120	

Sample Report

Sample Name	LCS WG756921
File Name	063SMPL.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\112814ICPMS8.b
Acq Time	2014-11-28 15:30:52
Sample Type	Sample
Total Dilution	1.1111
Comment	---
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fial	Pass
ISTD QC Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD	Tune Mode	Conc.	Conc. RSD	CPS	LDR	QC Flag
B	10	45	No Gas	0.051	3.70	7158.39	5	
B	11	45	No Gas	0.049	0.84	34033.91	5	
Se	82	72	No Gas	0.046	1.17	9760.05	5	
Be	9	45	He	0.064	4.34	559.34	5	
Na	23	45	He	0.630	2.75	69161.10	90	
Mg	24	45	He	0.537	2.41	24457.12	90	
Al	27	45	He	0.065	10.73	736.70	90	
K	39	45	He	0.504	1.46	17884.44	90	
Ca	43	45	He	0.803	12.10	86.00	90	
Ti	47	45	He	0.053	11.23	830.04	5	
V	51	45	He	0.056	3.17	47574.80	5	
Cr	52	45	He	0.055	0.92	64107.82	5	
Mn	55	72	He	0.044	1.81	19830.52	5	
Fe	56	72	He	0.052	2.42	55419.06	90	
Co	59	72	He	0.049	1.78	144738.59	5	
Ni	60	72	He	0.049	3.18	43034.30	5	
Cu	63	72	He	0.050	1.43	128965.95	5	
Zn	66	72	He	0.047	2.91	11408.05	5	
As	75	72	He	0.047	1.76	6975.93	5	
Se	78	72	He	0.044	6.94	206.67	5	
Sr	88	72	He	0.043	4.22	20124.61	5	
Mo	95	72	He	0.049	3.15	49169.14	5	
Ag	107	103	He	0.052	0.22	210887.50	1	
Cd	111	103	He	0.050	1.83	19695.17	5	
Sn	118	103	He	0.047	2.53	34065.22	2	
Sb	121	103	He	0.053	1.15	47277.41	1	
Ba	137	103	He	0.048	1.79	14017.33	2	
Tl	205	175	He	0.055	0.58	492460.81	5	
Pb	208	175	He	0.058	0.60	637017.10	5	
U	238	175	He	0.000	32.93	23.33	5	

QC ISTD Table

Sample Report

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc (No He)	45	No Gas	1540571.07	1.31	1916000.44	80.41	60	120	
Ge (No He)	72	No Gas	485297.17	1.09	518337.463333333	93.63	60	120	
Sc	45	He	14215.83	0.09	20542.3	69.2	60	120	
Ge	72	He	18251.63	1.79	21932.34	83.22	60	120	
Rh	103	He	746419.55	0.32	910360.35	81.99	60	120	
Lu	175	He	386829.98	0.36	456033.236666667	84.82	60	120	

Sample Report

Sample Name	LCSD WG756921
File Name	064SMPL.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\112814ICPMS8.b
Acq Time	2014-11-28 15:32:24
Sample Type	Sample
Total Dilution	1.1111
Comment	---
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fial	Pass
ISTD QC Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD	Tune Mode	Conc.	Conc. RSD	CPS	LDR	QC Flag
B	10	45	No Gas	0.052	1.83	7261.11	5	
B	11	45	No Gas	0.049	2.31	33929.01	5	
Se	82	72	No Gas	0.048	3.90	10195.90	5	
Be	9	45	He	0.062	1.91	553.34	5	
Na	23	45	He	0.600	2.12	67363.20	90	
Mg	24	45	He	0.490	3.75	22707.70	90	
Al	27	45	He	0.064	9.24	736.70	90	
K	39	45	He	0.491	6.71	17827.76	90	
Ca	43	45	He	0.907	5.21	98.00	90	
Ti	47	45	He	0.049	12.49	776.70	5	
V	51	45	He	0.054	0.44	46865.99	5	
Cr	52	45	He	0.054	1.02	63036.50	5	
Mn	55	72	He	0.043	1.89	19483.38	5	
Fe	56	72	He	0.079	2.23	83271.63	90	
Co	59	72	He	0.048	2.11	143751.52	5	
Ni	60	72	He	0.048	2.92	42479.37	5	
Cu	63	72	He	0.049	1.34	127556.26	5	
Zn	66	72	He	0.047	2.30	11711.65	5	
As	75	72	He	0.046	0.96	6905.22	5	
Se	78	72	He	0.040	8.54	189.33	5	
Sr	88	72	He	0.042	0.53	20087.89	5	
Mo	95	72	He	0.048	1.72	48299.43	5	
Ag	107	103	He	0.051	1.85	206787.68	1	
Cd	111	103	He	0.050	1.09	19610.37	5	
Sn	118	103	He	0.047	0.60	34092.17	2	
Sb	121	103	He	0.052	1.43	46130.51	1	
Ba	137	103	He	0.046	2.37	13550.15	2	
Tl	205	175	He	0.055	1.61	484232.91	5	
Pb	208	175	He	0.057	1.07	623191.81	5	
U	238	175	He	0.000	79.93	36.67	5	

QC ISTD Table

Sample Report

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc (No He)	45	No Gas	1536285.29	1.51	1916000.44	80.18	60	120	
Ge (No He)	72	No Gas	481470.96	0.69	518337.463333333	92.89	60	120	
Sc	45	He	14459.42	2.00	20542.3	70.39	60	120	
Ge	72	He	18417.40	2.08	21932.34	83.97	60	120	
Rh	103	He	738823.48	0.66	910360.35	81.16	60	120	
Lu	175	He	382333.63	1.43	456033.236666667	83.84	60	120	

Sample Report

Sample Name	L734231-16 WG756921
File Name	065SMPL.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\112814ICPMS8.b
Acq Time	2014-11-28 15:33:57
Sample Type	Sample
Total Dilution	5.5556
Comment	---
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fial	Fail
ISTD QC Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD	Tune Mode	Conc.	Conc. RSD	CPS	LDR	QC Flag
B	10	45	No Gas	1.614	1.53	51862.71	5	
B	11	45	No Gas	1.573	1.96	246910.45	5	
Se	82	72	No Gas	0.009	17.38	1187.83	5	
Be	9	45	He	0.001	101.07	2.00	5	
Na	23	45	He	1747.742	1.21	41739187.71	90	>LDR
Mg	24	45	He	831.116	1.16	9073490.28	90	>LDR
Al	27	45	He	21.133	1.20	54437.40	90	
K	39	45	He	102.178	2.12	683681.87	90	
Ca	43	45	He	2807.206	1.23	66664.03	90	>LDR
Ti	47	45	He	0.601	3.67	2250.21	5	
V	51	45	He	0.065	3.87	13349.61	5	
Cr	52	45	He	0.025	2.79	7575.44	5	
Mn	55	72	He	1.003	1.45	91584.61	5	
Fe	56	72	He	23.301	1.36	4735101.70	90	
Co	59	72	He	0.013	3.91	7732.21	5	
Ni	60	72	He	0.019	3.02	3593.85	5	
Cu	63	72	He	0.022	5.80	11694.94	5	
Zn	66	72	He	0.066	10.19	3597.21	5	
As	75	72	He	0.011	2.37	332.00	5	
Se	78	72	He	0.008	15.89	12.33	5	
Sr	88	72	He	50.185	1.07	4779399.72	5	>LDR
Mo	95	72	He	0.342	1.63	70381.58	5	
Ag	107	103	He	0.000	3.73	366.68	1	
Cd	111	103	He	0.000	56.15	34.00	5	
Sn	118	103	He	0.003	2.24	496.68	2	
Sb	121	103	He	0.004	9.66	723.37	1	
Ba	137	103	He	0.975	1.00	59857.12	2	
Tl	205	175	He	0.001	4.14	1533.45	5	
Pb	208	175	He	0.023	2.73	55336.99	5	
U	238	175	He	0.067	1.39	176323.03	5	

QC ISTD Table

Sample Report

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc (No He)	45	No Gas	1766341.69	1.58	1916000.44	92.19	60	120	
Ge (No He)	72	No Gas	479537.31	0.40	518337.463333333	92.51	60	120	
Sc	45	He	17088.92	1.61	20542.3	83.19	60	120	
Ge	72	He	18649.94	0.90	21932.34	85.03	60	120	
Rh	103	He	778573.35	1.01	910360.35	85.52	60	120	
Lu	175	He	429905.36	1.43	456033.236666667	94.27	60	120	

Sample Report

Sample Name	SD L734231-16 WG756921
File Name	066SMPL.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\112814ICPMS8.b
Acq Time	2014-11-28 15:36:20
Sample Type	Sample
Total Dilution	27.7778
Comment	---
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fial	Fail
ISTD QC Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD	Tune Mode	Conc.	Conc. RSD	CPS	LDR	QC Flag
B	10	45	No Gas	1.723	1.91	11656.55	5	
B	11	45	No Gas	1.677	1.60	55460.21	5	
Se	82	72	No Gas	0.003	176.79	926.70	5	
Be	9	45	He	0.005	49.47	2.00	5	
Na	23	45	He	1817.749	1.52	9022839.87	90	
Mg	24	45	He	892.452	0.82	2023801.22	90	
Al	27	45	He	21.515	2.64	11554.69	90	
K	39	45	He	104.833	2.04	149614.04	90	
Ca	43	45	He	2849.777	0.99	14063.74	90	>LDR
Ti	47	45	He	0.625	34.55	493.35	5	
V	51	45	He	0.063	10.39	2706.97	5	
Cr	52	45	He	0.025	7.54	2186.87	5	
Mn	55	72	He	1.010	4.12	19863.83	5	
Fe	56	72	He	22.954	0.89	1006857.95	90	
Co	59	72	He	0.014	5.47	1850.14	5	
Ni	60	72	He	0.022	15.48	963.38	5	
Cu	63	72	He	0.023	3.52	2783.65	5	
Zn	66	72	He	0.041	30.60	890.04	5	
As	75	72	He	0.012	14.40	82.67	5	
Se	78	72	He	0.019	78.46	8.67	5	
Sr	88	72	He	48.055	1.34	984454.62	5	
Mo	95	72	He	0.324	4.18	14324.18	5	
Ag	107	103	He	0.001	54.66	103.33	1	
Cd	111	103	He	0.000	31.63	7.33	5	
Sn	118	103	He	0.004	40.21	153.34	2	
Sb	121	103	He	0.004	17.65	206.67	1	
Ba	137	103	He	0.917	0.68	12265.66	2	
Tl	205	175	He	0.001	7.50	593.36	5	
Pb	208	175	He	0.023	2.08	11865.70	5	
U	238	175	He	0.065	0.86	35622.70	5	

QC ISTD Table

Sample Report

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc (No He)	45	No Gas	1852320.08	0.75	1916000.44	96.68	60	120	
Ge (No He)	72	No Gas	510995.82	0.54	518337.463333333	98.58	60	120	
Sc	45	He	17746.41	1.11	20542.3	86.39	60	120	
Ge	72	He	20058.52	1.01	21932.34	91.46	60	120	
Rh	103	He	846709.21	0.56	910360.35	93.01	60	120	
Lu	175	He	448880.67	0.45	456033.236666667	98.43	60	120	

Sample Report

Sample Name	MS L734231-16 WG756921
File Name	067SMPL.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\112814ICPMS8.b
Acq Time	2014-11-28 15:37:51
Sample Type	Sample
Total Dilution	5.5556
Comment	---
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fial	Fail
ISTD QC Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD	Tune Mode	Conc.	Conc. RSD	CPS	LDR	QC Flag
B	10	45	No Gas	1.571	2.53	50165.59	5	
B	11	45	No Gas	1.536	1.36	239708.67	5	
Se	82	72	No Gas	0.060	2.55	3091.46	5	
Be	9	45	He	0.063	12.11	130.00	5	
Na	23	45	He	1698.110	1.44	40015995.24	90	>LDR
Mg	24	45	He	811.900	2.03	8745580.91	90	>LDR
Al	27	45	He	23.047	1.63	58569.38	90	
K	39	45	He	100.311	1.63	662389.71	90	
Ca	43	45	He	2475.249	1.50	58000.11	90	>LDR
Ti	47	45	He	0.603	13.29	2223.55	5	
V	51	45	He	0.117	3.77	23739.73	5	
Cr	52	45	He	0.077	5.22	21679.80	5	
Mn	55	72	He	1.037	3.46	92594.43	5	
Fe	56	72	He	23.057	2.40	4582131.60	90	
Co	59	72	He	0.066	4.26	38735.64	5	
Ni	60	72	He	0.068	4.97	11918.42	5	
Cu	63	72	He	0.074	0.45	37943.52	5	
Zn	66	72	He	0.118	4.46	5974.69	5	
As	75	72	He	0.063	2.40	1881.91	5	
Se	78	72	He	0.062	17.68	61.00	5	
Sr	88	72	He	45.813	1.08	4266729.94	5	>LDR
Mo	95	72	He	0.382	0.86	76791.77	5	
Ag	107	103	He	0.051	2.16	42859.09	1	
Cd	111	103	He	0.051	1.42	4107.29	5	
Sn	118	103	He	0.051	3.37	7678.93	2	
Sb	121	103	He	0.049	1.05	9169.86	1	
Ba	137	103	He	0.936	2.17	56847.72	2	
Tl	205	175	He	0.052	2.12	100659.68	5	
Pb	208	175	He	0.073	1.55	174190.91	5	
U	238	175	He	0.064	1.47	164555.69	5	

QC ISTD Table

Sample Report

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc (No He)	45	No Gas	1755002.11	1.56	1916000.44	91.6	60	120	
Ge (No He)	72	No Gas	470851.84	0.24	518337.463333333	90.84	60	120	
Sc	45	He	16861.99	1.29	20542.3	82.08	60	120	
Ge	72	He	18239.39	1.00	21932.34	83.16	60	120	
Rh	103	He	770256.84	0.62	910360.35	84.61	60	120	
Lu	175	He	419457.49	1.28	456033.236666667	91.98	60	120	

Sample Report

Sample Name	MSD L734231-16 WG756921
File Name	068SMPL.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\112814ICPMS8.b
Acq Time	2014-11-28 15:39:23
Sample Type	Sample
Total Dilution	5.5556
Comment	---
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fial	Fail
ISTD QC Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD	Tune Mode	Conc.	Conc. RSD	CPS	LDR	QC Flag
B	10	45	No Gas	1.637	2.01	51883.35	5	
B	11	45	No Gas	1.577	1.93	244266.14	5	
Se	82	72	No Gas	0.059	2.52	3089.25	5	
Be	9	45	He	0.056	6.43	114.00	5	
Na	23	45	He	1750.447	1.15	40152445.24	90	>LDR
Mg	24	45	He	838.742	2.86	8793650.70	90	>LDR
Al	27	45	He	20.861	1.66	51607.19	90	
K	39	45	He	102.684	0.76	659960.51	90	
Ca	43	45	He	2359.070	1.51	53806.58	90	>LDR
Ti	47	45	He	0.588	11.36	2113.53	5	
V	51	45	He	0.118	2.35	23288.92	5	
Cr	52	45	He	0.080	1.13	21786.53	5	
Mn	55	72	He	1.037	1.79	91205.88	5	
Fe	56	72	He	21.269	0.88	4164239.32	90	
Co	59	72	He	0.065	0.58	37943.54	5	
Ni	60	72	He	0.067	3.32	11648.22	5	
Cu	63	72	He	0.072	0.80	36442.82	5	
Zn	66	72	He	0.112	9.57	5611.18	5	
As	75	72	He	0.063	0.82	1850.79	5	
Se	78	72	He	0.062	24.47	60.33	5	
Sr	88	72	He	43.398	1.49	3981363.28	5	>LDR
Mo	95	72	He	0.385	1.94	76131.23	5	
Ag	107	103	He	0.052	1.30	43103.35	1	
Cd	111	103	He	0.052	1.19	4189.31	5	
Sn	118	103	He	0.052	3.40	7695.57	2	
Sb	121	103	He	0.050	3.16	9223.24	1	
Ba	137	103	He	0.865	1.52	51894.78	2	
Tl	205	175	He	0.053	0.91	100914.38	5	
Pb	208	175	He	0.075	1.74	174723.58	5	
U	238	175	He	0.067	1.33	167169.44	5	

QC ISTD Table

Sample Report

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc (No He)	45	No Gas	1742830.76	1.36	1916000.44	90.96	60	120	
Ge (No He)	72	No Gas	472974.52	0.34	518337.463333333	91.25	60	120	
Sc	45	He	16412.58	1.06	20542.3	79.9	60	120	
Ge	72	He	17965.74	0.53	21932.34	81.91	60	120	
Rh	103	He	760521.06	0.92	910360.35	83.54	60	120	
Lu	175	He	409857.32	0.72	456033.236666667	89.87	60	120	

Sample Report

Sample Name	LCS WG756921
File Name	069SMPL.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\112814ICPMS8.b
Acq Time	2014-11-28 15:41:09
Sample Type	Sample
Total Dilution	1.1111
Comment	---
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fial	Pass
ISTD QC Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD	Tune Mode	Conc.	Conc. RSD	CPS	LDR	QC Flag
B	10	45	No Gas	0.055	1.06	7417.85	5	
B	11	45	No Gas	0.053	0.19	34944.00	5	
Se	82	72	No Gas	0.048	1.65	9589.93	5	
Be	9	45	He	0.063	2.57	521.01	5	
Na	23	45	He	0.787	3.84	80450.74	90	
Mg	24	45	He	0.563	1.57	24370.37	90	
Al	27	45	He	0.062	9.21	676.69	90	
K	39	45	He	0.497	4.72	16789.85	90	
Ca	43	45	He	1.002	4.54	100.33	90	
Ti	47	45	He	0.052	22.35	770.03	5	
V	51	45	He	0.055	5.86	44765.84	5	
Cr	52	45	He	0.056	2.73	61406.24	5	
Mn	55	72	He	0.045	2.56	18895.91	5	
Fe	56	72	He	0.053	0.55	53224.56	90	
Co	59	72	He	0.050	1.76	138888.14	5	
Ni	60	72	He	0.050	1.19	40814.82	5	
Cu	63	72	He	0.052	1.84	124063.26	5	
Zn	66	72	He	0.048	1.93	11071.11	5	
As	75	72	He	0.047	1.91	6635.32	5	
Se	78	72	He	0.046	3.37	199.33	5	
Sr	88	72	He	0.045	0.68	19847.50	5	
Mo	95	72	He	0.050	2.12	47302.97	5	
Ag	107	103	He	0.052	0.26	205057.21	1	
Cd	111	103	He	0.049	0.63	18797.27	5	
Sn	118	103	He	0.044	2.68	31262.19	2	
Sb	121	103	He	0.050	0.87	43301.13	1	
Ba	137	103	He	0.045	0.54	12889.61	2	
Tl	205	175	He	0.055	0.50	468542.18	5	
Pb	208	175	He	0.058	0.96	608384.91	5	
U	238	175	He	0.000	20.15	66.67	5	

QC ISTD Table

Sample Report

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc (No He)	45	No Gas	1482681.96	0.84	1916000.44	77.38	60	120	
Ge (No He)	72	No Gas	454673.55	1.03	518337.463333333	87.72	60	120	
Sc	45	He	13504.06	3.14	20542.3	65.74	60	120	
Ge	72	He	17133.62	1.09	21932.34	78.12	60	120	
Rh	103	He	728981.40	1.04	910360.35	80.08	60	120	
Lu	175	He	368664.85	1.17	456033.236666667	80.84	60	120	

Sample Report

Sample Name	LCSD WG756921
File Name	070SMPL.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\112814ICPMS8.b
Acq Time	2014-11-28 15:42:41
Sample Type	Sample
Total Dilution	1.1111
Comment	---
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fial	Pass
ISTD QC Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD	Tune Mode	Conc.	Conc. RSD	CPS	LDR	QC Flag
B	10	45	No Gas	0.054	2.24	7368.49	5	
B	11	45	No Gas	0.051	0.76	34638.61	5	
Se	82	72	No Gas	0.048	2.33	9870.13	5	
Be	9	45	He	0.062	4.77	529.34	5	
Na	23	45	He	0.661	0.94	70628.10	90	
Mg	24	45	He	0.536	1.52	23846.06	90	
Al	27	45	He	0.071	14.16	790.03	90	
K	39	45	He	0.481	3.54	16843.22	90	
Ca	43	45	He	0.838	21.98	87.33	90	
Ti	47	45	He	0.058	5.86	886.71	5	
V	51	45	He	0.055	1.56	45765.77	5	
Cr	52	45	He	0.055	0.69	62085.91	5	
Mn	55	72	He	0.044	2.40	19112.86	5	
Fe	56	72	He	0.082	1.23	82628.00	90	
Co	59	72	He	0.050	0.69	141479.82	5	
Ni	60	72	He	0.050	2.17	41988.05	5	
Cu	63	72	He	0.051	1.69	126581.25	5	
Zn	66	72	He	0.046	2.65	10910.97	5	
As	75	72	He	0.046	1.49	6685.12	5	
Se	78	72	He	0.042	13.08	190.33	5	
Sr	88	72	He	0.042	0.29	18983.03	5	
Mo	95	72	He	0.049	2.21	47804.37	5	
Ag	107	103	He	0.052	0.73	209636.75	1	
Cd	111	103	He	0.049	1.08	19201.83	5	
Sn	118	103	He	0.045	3.31	32591.86	2	
Sb	121	103	He	0.051	2.44	45210.68	1	
Ba	137	103	He	0.044	2.38	12999.69	2	
Tl	205	175	He	0.056	0.79	483293.11	5	
Pb	208	175	He	0.059	1.55	624887.58	5	
U	238	175	He	0.000	71.67	26.67	5	

QC ISTD Table

Sample Report

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc (No He)	45	No Gas	1505487.37	0.39	1916000.44	78.57	60	120	
Ge (No He)	72	No Gas	471761.87	0.25	518337.463333333	91.01	60	120	
Sc	45	He	13891.11	0.38	20542.3	67.62	60	120	
Ge	72	He	17652.02	1.00	21932.34	80.48	60	120	
Rh	103	He	739931.45	0.66	910360.35	81.28	60	120	
Lu	175	He	375940.58	0.65	456033.236666667	82.44	60	120	

Sample Report

Sample Name	L734231-19 WG756921
File Name	071SMPL.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\112814ICPMS8.b
Acq Time	2014-11-28 15:44:13
Sample Type	Sample
Total Dilution	5.5556
Comment	---
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fial	Fail
ISTD QC Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD	Tune Mode	Conc.	Conc. RSD	CPS	LDR	QC Flag
B	10	45	No Gas	1.978	0.79	64060.18	5	
B	11	45	No Gas	1.922	0.67	304051.93	5	
Se	82	72	No Gas	0.008	11.57	1155.61	5	
Be	9	45	He	0.001	114.48	1.33	5	
Na	23	45	He	3884.363	0.48	90197928.66	90	>LDR
Mg	24	45	He	967.168	0.34	10267887.14	90	>LDR
Al	27	45	He	7.368	2.09	18485.15	90	
K	39	45	He	195.483	1.05	1267849.46	90	
Ca	43	45	He	1841.043	0.48	42518.73	90	>LDR
Ti	47	45	He	0.215	9.73	786.70	5	
V	51	45	He	0.031	6.55	6138.07	5	
Cr	52	45	He	0.010	1.66	3400.45	5	
Mn	55	72	He	0.905	1.50	81880.55	5	
Fe	56	72	He	8.649	1.72	1742846.28	90	
Co	59	72	He	0.006	1.33	3450.47	5	
Ni	60	72	He	0.010	4.08	1923.50	5	
Cu	63	72	He	0.010	4.33	5217.69	5	
Zn	66	72	He	0.016	11.23	1203.41	5	
As	75	72	He	0.005	7.67	168.00	5	
Se	78	72	He	0.003	104.18	7.00	5	
Sr	88	72	He	33.042	1.52	3115719.22	5	>LDR
Mo	95	72	He	0.608	1.40	123627.43	5	
Ag	107	103	He	0.000	8.43	140.00	1	
Cd	111	103	He	0.000	5.83	22.67	5	
Sn	118	103	He	0.002	15.64	310.01	2	
Sb	121	103	He	0.004	19.17	803.37	1	
Ba	137	103	He	0.317	1.20	19263.80	2	
Tl	205	175	He	0.000	10.23	780.04	5	
Pb	208	175	He	0.007	1.46	16597.79	5	
U	238	175	He	0.063	2.38	164876.07	5	

QC ISTD Table

Sample Report

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc (No He)	45	No Gas	1779965.13	0.62	1916000.44	92.9	60	120	
Ge (No He)	72	No Gas	476387.09	0.68	518337.463333333	91.91	60	120	
Sc	45	He	16616.18	0.77	20542.3	80.89	60	120	
Ge	72	He	18468.59	1.51	21932.34	84.21	60	120	
Rh	103	He	770121.50	0.78	910360.35	84.6	60	120	
Lu	175	He	426792.68	1.14	456033.236666667	93.59	60	120	

Sample Report

Sample Name	L734231-20 WG756921
File Name	072SMPL.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\112814ICPMS8.b
Acq Time	2014-11-28 15:45:44
Sample Type	Sample
Total Dilution	5.5556
Comment	---
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fial	Fail
ISTD QC Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD	Tune Mode	Conc.	Conc. RSD	CPS	LDR	QC Flag
B	10	45	No Gas	2.474	1.38	79098.21	5	
B	11	45	No Gas	2.402	0.21	375325.27	5	
Se	82	72	No Gas	0.019	14.47	1516.76	5	
Be	9	45	He	0.004	31.00	7.33	5	
Na	23	45	He	4947.354	1.86	111897588.33	90	>LDR
Mg	24	45	He	1550.126	2.08	16028938.93	90	>LDR
Al	27	45	He	47.491	2.12	115797.75	90	
K	39	45	He	242.406	1.49	1530312.90	90	
Ca	43	45	He	6510.979	1.73	146441.83	90	>LDR
Ti	47	45	He	1.374	5.58	4857.57	5	
V	51	45	He	0.172	1.82	33505.54	5	
Cr	52	45	He	0.059	2.90	16179.22	5	
Mn	55	72	He	2.326	0.72	202879.40	5	
Fe	56	72	He	51.064	1.02	9907240.69	90	
Co	59	72	He	0.030	3.34	16996.94	5	
Ni	60	72	He	0.042	2.83	7228.59	5	
Cu	63	72	He	0.047	2.90	23739.86	5	
Zn	66	72	He	0.141	6.72	6918.44	5	
As	75	72	He	0.021	6.40	615.57	5	
Se	78	72	He	0.022	6.69	23.67	5	
Sr	88	72	He	117.649	1.19	10700980.67	5	>LDR
Mo	95	72	He	0.553	1.54	108608.61	5	
Ag	107	103	He	0.000	30.39	173.34	1	
Cd	111	103	He	0.001	7.80	73.33	5	
Sn	118	103	He	0.005	27.68	776.70	2	
Sb	121	103	He	0.004	7.40	666.70	1	
Ba	137	103	He	1.690	1.14	96986.73	2	
Tl	205	175	He	0.001	5.67	2126.88	5	
Pb	208	175	He	0.040	1.52	93524.51	5	
U	238	175	He	0.129	2.37	322651.93	5	

QC ISTD Table

Sample Report

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc (No He)	45	No Gas	1757960.55	1.10	1916000.44	91.75	60	120	
Ge (No He)	72	No Gas	463450.54	0.90	518337.463333333	89.41	60	120	
Sc	45	He	16185.67	0.72	20542.3	78.79	60	120	
Ge	72	He	17812.22	1.41	21932.34	81.21	60	120	
Rh	103	He	727558.45	0.07	910360.35	79.92	60	120	
Lu	175	He	410218.30	0.66	456033.236666667	89.95	60	120	

Sample Report

Sample Name	L734231-24 WG756921
File Name	073SMPL.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\112814ICPMS8.b
Acq Time	2014-11-28 15:47:17
Sample Type	Sample
Total Dilution	5.5556
Comment	---
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fial	Fail
ISTD QC Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD	Tune Mode	Conc.	Conc. RSD	CPS	LDR	QC Flag
B	10	45	No Gas	0.836	0.68	26801.93	5	
B	11	45	No Gas	0.807	1.22	126361.38	5	
Se	82	72	No Gas	0.006	25.61	1076.71	5	
Be	9	45	He	0.002	15.59	3.33	5	
Na	23	45	He	799.535	3.04	17529419.32	90	>LDR
Mg	24	45	He	301.524	0.52	3022532.04	90	
Al	27	45	He	9.300	2.84	22016.61	90	
K	39	45	He	74.727	2.32	460200.84	90	
Ca	43	45	He	1445.528	2.61	31513.42	90	>LDR
Ti	47	45	He	0.283	1.50	976.71	5	
V	51	45	He	0.033	2.69	6234.76	5	
Cr	52	45	He	0.010	7.67	3160.40	5	
Mn	55	72	He	0.355	2.22	31050.24	5	
Fe	56	72	He	9.710	1.13	1892363.15	90	
Co	59	72	He	0.007	10.74	3960.63	5	
Ni	60	72	He	0.007	13.54	1376.76	5	
Cu	63	72	He	0.011	3.68	5767.92	5	
Zn	66	72	He	0.030	12.10	1803.48	5	
As	75	72	He	0.007	9.75	213.78	5	
Se	78	72	He	0.007	25.24	11.00	5	
Sr	88	72	He	24.440	2.49	2229189.65	5	
Mo	95	72	He	0.360	1.56	70941.24	5	
Ag	107	103	He	0.000	21.67	66.67	1	
Cd	111	103	He	0.000	61.21	16.00	5	
Sn	118	103	He	0.002	8.70	353.34	2	
Sb	121	103	He	0.002	9.12	450.01	1	
Ba	137	103	He	0.356	1.83	21717.48	2	
Tl	205	175	He	0.000	10.99	696.70	5	
Pb	208	175	He	0.009	1.70	21297.27	5	
U	238	175	He	0.028	2.48	70763.82	5	

QC ISTD Table

Sample Report

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc (No He)	45	No Gas	1759915.75	1.12	1916000.44	91.85	60	120	
Ge (No He)	72	No Gas	482154.31	0.75	518337.463333333	93.02	60	120	
Sc	45	He	15689.60	2.16	20542.3	76.38	60	120	
Ge	72	He	17863.38	0.72	21932.34	81.45	60	120	
Rh	103	He	772948.32	1.72	910360.35	84.91	60	120	
Lu	175	He	411462.53	1.38	456033.236666667	90.23	60	120	

Sample Report

Sample Name	L734810-03 WG756921
File Name	074SMPL.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\112814ICPMS8.b
Acq Time	2014-11-28 15:48:48
Sample Type	Sample
Total Dilution	5.5556
Comment	---
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fial	Fail
ISTD QC Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD	Tune Mode	Conc.	Conc. RSD	CPS	LDR	QC Flag
B	10	45	No Gas	0.248	1.36	7792.04	5	
B	11	45	No Gas	0.240	1.45	36811.11	5	
Se	82	72	No Gas	0.016	12.70	1434.52	5	
Be	9	45	He	0.002	46.32	3.33	5	
Na	23	45	He	1607.104	1.33	35061636.14	90	>LDR
Mg	24	45	He	414.813	1.51	4137061.92	90	
Al	27	45	He	16.807	3.70	39546.61	90	
K	39	45	He	14.415	1.92	91843.40	90	
Ca	43	45	He	1277.377	2.91	27709.44	90	>LDR
Ti	47	45	He	0.303	2.41	1040.05	5	
V	51	45	He	0.031	4.88	5801.25	5	
Cr	52	45	He	0.024	3.86	6748.37	5	
Mn	55	72	He	0.660	1.84	57072.33	5	
Fe	56	72	He	18.082	0.69	3476655.68	90	
Co	59	72	He	0.010	5.24	5454.47	5	
Ni	60	72	He	0.022	5.55	3850.60	5	
Cu	63	72	He	0.014	0.95	6888.45	5	
Zn	66	72	He	0.079	2.62	3993.96	5	
As	75	72	He	0.006	10.64	173.33	5	
Se	78	72	He	0.016	26.80	18.00	5	
Sr	88	72	He	21.355	2.12	1923458.25	5	
Mo	95	72	He	0.026	5.34	5037.67	5	
Ag	107	103	He	0.000	58.34	70.00	1	
Cd	111	103	He	0.000	43.73	20.67	5	
Sn	118	103	He	0.002	12.36	306.68	2	
Sb	121	103	He	0.002	22.72	376.68	1	
Ba	137	103	He	0.280	2.96	17034.13	2	
Tl	205	175	He	0.000	13.21	683.36	5	
Pb	208	175	He	0.011	2.90	26904.87	5	
U	238	175	He	0.008	0.78	19097.72	5	

QC ISTD Table

Sample Report

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc (No He)	45	No Gas	1714851.28	1.18	1916000.44	89.5	60	120	
Ge (No He)	72	No Gas	471656.22	0.23	518337.463333333	90.99	60	120	
Sc	45	He	15611.76	1.89	20542.3	76	60	120	
Ge	72	He	17640.88	1.10	21932.34	80.43	60	120	
Rh	103	He	770587.07	0.64	910360.35	84.65	60	120	
Lu	175	He	416239.10	0.46	456033.236666667	91.27	60	120	

Sample Report

Sample Name	L734810-05 WG756921
File Name	075SMPL.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\112814ICPMS8.b
Acq Time	2014-11-28 15:50:19
Sample Type	Sample
Total Dilution	5.5556
Comment	---
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fial	Fail
ISTD QC Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD	Tune Mode	Conc.	Conc. RSD	CPS	LDR	QC Flag
B	10	45	No Gas	0.244	2.21	7892.09	5	
B	11	45	No Gas	0.237	1.51	37436.66	5	
Se	82	72	No Gas	0.020	6.67	1596.76	5	
Be	9	45	He	0.004	19.29	7.33	5	
Na	23	45	He	1747.158	1.52	40025276.90	90	>LDR
Mg	24	45	He	485.045	1.64	5079617.84	90	
Al	27	45	He	33.667	1.48	83156.95	90	
K	39	45	He	15.063	1.49	100577.04	90	
Ca	43	45	He	1301.037	1.03	29644.87	90	>LDR
Ti	47	45	He	0.766	2.69	2746.97	5	
V	51	45	He	0.117	0.69	23028.48	5	
Cr	52	45	He	0.064	1.41	17477.51	5	
Mn	55	72	He	0.737	1.36	64921.90	5	
Fe	56	72	He	41.359	0.37	8098610.30	90	
Co	59	72	He	0.017	1.45	9973.64	5	
Ni	60	72	He	0.036	9.83	6261.46	5	
Cu	63	72	He	0.026	3.02	13466.53	5	
Zn	66	72	He	0.120	0.84	5984.69	5	
As	75	72	He	0.010	6.16	297.33	5	
Se	78	72	He	0.030	11.78	31.33	5	
Sr	88	72	He	20.074	2.11	1842974.50	5	
Mo	95	72	He	0.022	4.36	4324.07	5	
Ag	107	103	He	0.000	54.12	96.67	1	
Cd	111	103	He	0.001	17.28	52.00	5	
Sn	118	103	He	0.004	18.25	563.35	2	
Sb	121	103	He	0.003	8.24	550.02	1	
Ba	137	103	He	0.444	4.09	27180.67	2	
Tl	205	175	He	0.001	3.08	1233.42	5	
Pb	208	175	He	0.027	2.96	62843.36	5	
U	238	175	He	0.009	0.04	23030.91	5	

QC ISTD Table

Sample Report

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc (No He)	45	No Gas	1764730.08	0.78	1916000.44	92.1	60	120	
Ge (No He)	72	No Gas	471874.64	0.53	518337.463333333	91.04	60	120	
Sc	45	He	16393.67	1.80	20542.3	79.8	60	120	
Ge	72	He	17975.75	0.88	21932.34	81.96	60	120	
Rh	103	He	776391.81	0.88	910360.35	85.28	60	120	
Lu	175	He	415625.01	1.20	456033.236666667	91.14	60	120	

Sample Report

Sample Name	L734810-07 WG756921
File Name	076SMPL.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\112814ICPMS8.b
Acq Time	2014-11-28 15:51:50
Sample Type	Sample
Total Dilution	5.5556
Comment	---
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fial	Fail
ISTD QC Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD	Tune Mode	Conc.	Conc. RSD	CPS	LDR	QC Flag
B	10	45	No Gas	0.444	2.41	14639.16	5	
B	11	45	No Gas	0.432	2.14	69632.25	5	
Se	82	72	No Gas	0.018	13.02	1518.98	5	
Be	9	45	He	0.005	45.56	10.33	5	
Na	23	45	He	1586.795	1.07	35870571.96	90	>LDR
Mg	24	45	He	482.143	1.67	4981881.91	90	
Al	27	45	He	63.412	2.10	154480.63	90	
K	39	45	He	24.088	1.16	156002.63	90	
Ca	43	45	He	1463.653	1.37	32901.78	90	>LDR
Ti	47	45	He	1.245	4.60	4397.41	5	
V	51	45	He	0.152	0.39	29617.10	5	
Cr	52	45	He	0.104	0.89	27933.78	5	
Mn	55	72	He	1.116	1.16	98543.74	5	
Fe	56	72	He	71.467	0.98	14033349.37	90	
Co	59	72	He	0.027	1.50	15852.25	5	
Ni	60	72	He	0.063	3.71	11034.37	5	
Cu	63	72	He	0.041	0.53	21025.63	5	
Zn	66	72	He	0.211	2.46	10270.49	5	
As	75	72	He	0.031	3.96	907.59	5	
Se	78	72	He	0.026	24.04	28.00	5	
Sr	88	72	He	17.243	1.81	1587771.17	5	
Mo	95	72	He	0.025	8.48	5047.66	5	
Ag	107	103	He	0.000	24.64	136.67	1	
Cd	111	103	He	0.001	17.18	65.33	5	
Sn	118	103	He	0.006	12.20	940.05	2	
Sb	121	103	He	0.002	10.54	440.02	1	
Ba	137	103	He	1.053	1.53	64066.14	2	
Tl	205	175	He	0.001	11.45	2206.89	5	
Pb	208	175	He	0.044	0.65	103197.12	5	
U	238	175	He	0.015	3.25	37548.38	5	

QC ISTD Table

Sample Report

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc (No He)	45	No Gas	1808015.81	1.59	1916000.44	94.36	60	120	
Ge (No He)	72	No Gas	475256.33	0.12	518337.463333333	91.69	60	120	
Sc	45	He	16175.67	2.06	20542.3	78.74	60	120	
Ge	72	He	18031.37	1.15	21932.34	82.21	60	120	
Rh	103	He	771281.24	0.52	910360.35	84.72	60	120	
Lu	175	He	414262.99	1.00	456033.236666667	90.84	60	120	

Sample Report

Sample Name	L734810-09 WG756921
File Name	077SMPL.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\112814ICPMS8.b
Acq Time	2014-11-28 15:53:38
Sample Type	Sample
Total Dilution	5.5556
Comment	---
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fial	Fail
ISTD QC Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD	Tune Mode	Conc.	Conc. RSD	CPS	LDR	QC Flag
B	10	45	No Gas	0.463	0.51	15519.37	5	
B	11	45	No Gas	0.443	0.68	72612.44	5	
Se	82	72	No Gas	0.023	2.53	1725.67	5	
Be	9	45	He	0.006	14.14	11.33	5	
Na	23	45	He	1742.445	0.82	39961089.40	90	>LDR
Mg	24	45	He	426.819	1.96	4474353.16	90	
Al	27	45	He	91.850	1.56	227002.25	90	
K	39	45	He	32.961	1.41	214884.00	90	
Ca	43	45	He	2232.182	1.07	50903.97	90	>LDR
Ti	47	45	He	1.667	3.26	5974.67	5	
V	51	45	He	0.185	2.59	36619.86	5	
Cr	52	45	He	0.146	1.22	39256.64	5	
Mn	55	72	He	1.797	1.09	155520.43	5	
Fe	56	72	He	111.846	1.71	21531308.85	90	
Co	59	72	He	0.041	2.21	23726.41	5	
Ni	60	72	He	0.098	3.74	16753.22	5	
Cu	63	72	He	0.072	3.10	35697.80	5	
Zn	66	72	He	0.312	4.15	14657.69	5	
As	75	72	He	0.031	6.97	897.81	5	
Se	78	72	He	0.040	28.42	40.00	5	
Sr	88	72	He	23.845	2.14	2152659.24	5	
Mo	95	72	He	0.028	8.39	5374.44	5	
Ag	107	103	He	0.000	5.15	333.34	1	
Cd	111	103	He	0.001	13.79	100.67	5	
Sn	118	103	He	0.008	5.91	1270.08	2	
Sb	121	103	He	0.003	8.82	530.02	1	
Ba	137	103	He	1.231	0.50	74072.44	2	
Tl	205	175	He	0.001	8.68	2670.32	5	
Pb	208	175	He	0.069	1.89	161782.87	5	
U	238	175	He	0.022	1.92	56664.69	5	

QC ISTD Table

Sample Report

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc (No He)	45	No Gas	1837331.48	1.07	1916000.44	95.89	60	120	
Ge (No He)	72	No Gas	478201.39	0.96	518337.463333333	92.26	60	120	
Sc	45	He	16409.25	1.07	20542.3	79.88	60	120	
Ge	72	He	17682.03	2.18	21932.34	80.62	60	120	
Rh	103	He	763114.47	0.57	910360.35	83.83	60	120	
Lu	175	He	413246.39	0.38	456033.236666667	90.62	60	120	

Sample Report

Sample Name	L735181-02 WG756921
File Name	078SMPL.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\112814ICPMS8.b
Acq Time	2014-11-28 15:55:09
Sample Type	Sample
Total Dilution	5.5556
Comment	---
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fial	Fail
ISTD QC Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD	Tune Mode	Conc.	Conc. RSD	CPS	LDR	QC Flag
B	10	45	No Gas	0.247	0.24	7968.80	5	
B	11	45	No Gas	0.240	0.71	37933.90	5	
Se	82	72	No Gas	0.004	65.45	1010.04	5	
Be	9	45	He	0.002	63.20	3.33	5	
Na	23	45	He	776.705	0.42	17136960.58	90	>LDR
Mg	24	45	He	204.966	1.06	2066841.43	90	
Al	27	45	He	17.197	1.34	40923.83	90	
K	39	45	He	17.061	1.29	109097.29	90	
Ca	43	45	He	1098.782	1.53	24103.44	90	>LDR
Ti	47	45	He	0.357	11.43	1236.74	5	
V	51	45	He	0.059	1.09	11154.46	5	
Cr	52	45	He	0.021	1.84	5954.67	5	
Mn	55	72	He	0.755	1.98	67212.17	5	
Fe	56	72	He	16.610	2.02	3288920.16	90	
Co	59	72	He	0.010	2.73	5697.88	5	
Ni	60	72	He	0.021	6.86	3707.19	5	
Cu	63	72	He	0.009	3.34	4997.63	5	
Zn	66	72	He	0.042	14.08	2396.91	5	
As	75	72	He	0.009	6.40	266.22	5	
Se	78	72	He	0.006	39.17	9.67	5	
Sr	88	72	He	13.449	0.46	1247709.36	5	
Mo	95	72	He	0.025	7.03	4930.97	5	
Ag	107	103	He	0.000	84.24	40.00	1	
Cd	111	103	He	0.000	7.83	28.00	5	
Sn	118	103	He	0.002	6.55	396.68	2	
Sb	121	103	He	0.002	6.70	456.68	1	
Ba	137	103	He	0.292	5.36	18252.42	2	
Tl	205	175	He	0.000	0.53	830.04	5	
Pb	208	175	He	0.012	2.14	28866.40	5	
U	238	175	He	0.034	1.65	86737.57	5	

QC ISTD Table

Sample Report

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc (No He)	45	No Gas	1764946.80	0.30	1916000.44	92.12	60	120	
Ge (No He)	72	No Gas	484485.98	0.48	518337.463333333	93.47	60	120	
Sc	45	He	15783.01	1.45	20542.3	76.83	60	120	
Ge	72	He	18166.00	0.93	21932.34	82.83	60	120	
Rh	103	He	790976.65	0.77	910360.35	86.89	60	120	
Lu	175	He	420796.69	1.11	456033.236666667	92.27	60	120	

Sample Report

Sample Name	L735181-05 WG756921
File Name	079SMPL.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\112814ICPMS8.b
Acq Time	2014-11-28 15:56:40
Sample Type	Sample
Total Dilution	5.5556
Comment	---
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fial	Fail
ISTD QC Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD	Tune Mode	Conc.	Conc. RSD	CPS	LDR	QC Flag
B	10	45	No Gas	0.416	1.97	13171.80	5	
B	11	45	No Gas	0.404	0.85	62416.13	5	
Se	82	72	No Gas	0.004	23.15	1001.15	5	
Be	9	45	He	0.000	173.21	0.33	5	
Na	23	45	He	3626.063	0.44	81895802.11	90	>LDR
Mg	24	45	He	746.898	1.09	7712039.68	90	>LDR
Al	27	45	He	2.540	3.90	6231.44	90	
K	39	45	He	21.291	1.17	138310.87	90	
Ca	43	45	He	889.545	0.99	19984.27	90	>LDR
Ti	47	45	He	0.076	43.46	276.70	5	
V	51	45	He	0.030	1.17	5771.25	5	
Cr	52	45	He	0.005	7.68	1900.17	5	
Mn	55	72	He	0.690	2.01	61477.13	5	
Fe	56	72	He	2.374	1.43	473798.49	90	
Co	59	72	He	0.004	4.24	2426.92	5	
Ni	60	72	He	0.008	6.82	1420.09	5	
Cu	63	72	He	0.003	5.45	1490.11	5	
Zn	66	72	He	0.004	13.70	586.69	5	
As	75	72	He	0.017	5.92	515.12	5	
Se	78	72	He	0.002	124.86	6.33	5	
Sr	88	72	He	17.480	1.55	1622941.38	5	
Mo	95	72	He	0.023	4.19	4597.50	5	
Ag	107	103	He	0.000	58.84	60.00	1	
Cd	111	103	He	0.001	40.14	48.00	5	
Sn	118	103	He	0.001	18.62	220.01	2	
Sb	121	103	He	0.003	19.08	643.36	1	
Ba	137	103	He	0.089	1.21	5414.48	2	
Tl	205	175	He	0.000	9.12	433.35	5	
Pb	208	175	He	0.002	2.79	3873.64	5	
U	238	175	He	0.031	1.21	79131.67	5	

QC ISTD Table

Sample Report

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc (No He)	45	No Gas	1734139.56	1.01	1916000.44	90.51	60	120	
Ge (No He)	72	No Gas	473098.82	1.16	518337.463333333	91.27	60	120	
Sc	45	He	16161.21	0.67	20542.3	78.67	60	120	
Ge	72	He	18183.79	1.35	21932.34	82.91	60	120	
Rh	103	He	772755.04	0.62	910360.35	84.88	60	120	
Lu	175	He	415572.95	0.81	456033.236666667	91.13	60	120	

Continuing Calibration Verification (CCV) Report

Sample Name	CCV 14K05175
File Name	080_CCV.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\112814ICPMS8.b
Acq Time	2014-11-28 15:58:11
Sample Type	CCV
Total Dilution	1.0000
Comment	---
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fial	Fail
ISTD QC Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD	Tune Mode	Conc.	Conc. RSD	CPS	ExpValue	% Rec	%QC Low	%QC High	QC Flag
B	10	45	No Gas	0.095	3.67	17950.09	0.9	10.51	10	10	
B	11	45	No Gas	0.091	2.17	84075.85	0.9	10.07	10	10	
Se	82	72	No Gas	0.104	1.37	24760.38	0.9	11.52	10	10	
Be	9	45	He	0.127	1.57	1476.41	0.9	14.11	10	10	CCV Main CR1 Failed
Na	23	45	He	11.215	3.98	1486840.92	0.9	1246.15	1000	1000	CCV Main CR1 Failed
Mg	24	45	He	10.532	2.03	635309.32	0.9	1170.25	1000	1000	
Al	27	45	He	0.968	5.53	13803.32	0.9	107.51	100	100	
K	39	45	He	9.814	3.58	364907.50	0.9	1090.45	1000	1000	
Ca	43	45	He	10.109	5.27	1333.40	0.9	1123.28	1000	1000	
Ti	47	45	He	0.099	5.14	2036.85	0.9	10.95	10	10	
V	51	45	He	0.107	1.89	120962.99	0.9	11.84	10	10	
Cr	52	45	He	0.109	1.99	166143.69	0.9	12.06	10	10	
Mn	55	72	He	0.097	0.83	50899.66	0.9	10.77	10	10	
Fe	56	72	He	1.010	1.69	1182712.01	0.9	112.22	100	100	
Co	59	72	He	0.107	0.45	369340.45	0.9	11.84	10	10	
Ni	60	72	He	0.108	1.20	110862.82	0.9	11.98	10	10	
Cu	63	72	He	0.109	1.60	328262.60	0.9	12.12	10	10	
Zn	66	72	He	0.104	0.33	29366.96	0.9	11.59	10	10	
As	75	72	He	0.101	0.93	17835.06	0.9	11.28	10	10	
Se	78	72	He	0.092	6.51	496.01	0.9	10.19	10	10	
Sr	88	72	He	0.094	1.19	51520.47	0.9	10.44	10	10	
Mo	95	72	He	0.110	1.59	129435.74	0.9	12.18	10	10	
Ag	107	103	He	0.104	0.38	548086.61	0.9	11.53	10	10	
Cd	111	103	He	0.097	0.37	49717.16	0.9	10.82	10	10	
Sn	118	103	He	0.093	0.46	87833.03	0.9	10.31	10	10	
Sb	121	103	He	0.092	0.43	106933.36	0.9	10.22	10	10	
Ba	137	103	He	0.093	2.96	35506.25	0.9	10.32	10	10	
Tl	205	175	He	0.110	0.89	1249963.39	0.9	12.25	10	10	CCV Main CR1 Failed
Pb	208	175	He	0.114	1.50	1592418.58	0.9	12.69	10	10	CCV Main CR1 Failed
U	238	175	He	0.115	1.55	1731154.61	0.9	12.81	10	10	CCV Main CR1 Failed

QC ISTD Table

Continuing Calibration Verification (CCV) Report

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc (No He)	45	No Gas	1873257.26	0.66	1916000.44	97.77	60	120	
Ge (No He)	72	No Gas	513341.24	0.32	518337.463333333	99.04	60	120	
Sc	45	He	16996.59	2.42	20542.3	82.74	60	120	
Ge	72	He	19294.10	1.06	21932.34	87.97	60	120	
Rh	103	He	872305.54	0.69	910360.35	95.82	60	120	
Lu	175	He	442232.52	0.59	456033.236666667	96.97	60	120	

Continuing Calibration Blank (CCB) Report

Sample Name	CCB 14K05174
File Name	081_CCB.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\112814ICPMS8.b
Acq Time	2014-11-28 15:59:43
Sample Type	CCB
Total Dilution	1.0000
Comment	---
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fial	Pass
ISTD QC Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD	Tune Mode	Conc.	Conc. RSD	CPS	Limit	QC Flag
B	10	45	No Gas	0.007	2.35	1316.06	0.015	
B	11	45	No Gas	0.007	1.10	6236.65	0.015	
Se	82	72	No Gas	0.000	175.08	938.93	0.00075	
Be	9	45	He	0.000	173.21	0.33	0.00075	
Na	23	45	He	0.127	2.28	24390.30	0.75	
Mg	24	45	He	0.009	18.16	630.03	0.75	
Al	27	45	He	0.000	N/A	46.67	0.0375	
K	39	45	He	-0.009	N/A	4330.72	0.75	
Ca	43	45	He	0.039	53.08	13.00	0.75	
Ti	47	45	He	0.000	N/A	0.00	0.0075	
V	51	45	He	0.000	57.34	33.33	0.0015	
Cr	52	45	He	0.000	188.51	763.37	0.00075	
Mn	55	72	He	0.000	192.58	53.33	0.0015	
Fe	56	72	He	0.000	22.68	4524.11	0.0375	
Co	59	72	He	0.000	27.98	70.00	0.00075	
Ni	60	72	He	0.002	3.58	2070.18	0.00075	CCB Main CR1 Failed
Cu	63	72	He	0.000	27.41	276.68	0.0015	
Zn	66	72	He	0.000	N/A	410.01	0.0075	
As	75	72	He	0.000	37.64	7.55	0.00075	
Se	78	72	He	0.000	N/A	3.33	0.00075	
Sr	88	72	He	0.000	29.22	243.34	0.0075	
Mo	95	72	He	0.000	88.07	26.67	0.0015	
Ag	107	103	He	0.000	8.57	196.67	0.000375	
Cd	111	103	He	0.000	56.90	11.33	0.000375	
Sn	118	103	He	0.000	21.88	103.33	0.00075	
Sb	121	103	He	0.000	29.47	196.67	0.00075	
Ba	137	103	He	0.000	115.67	60.00	0.0015	
Tl	205	175	He	0.000	15.67	370.01	0.00075	
Pb	208	175	He	0.000	29.68	856.69	0.00075	
U	238	175	He	0.000	15.78	320.01	0.0075	

QC ISTD Table

Continuing Calibration Blank (CCB) Report

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc (No He)	45	No Gas	1838586.74	2.17	1916000.44	95.96	60	120	
Ge (No He)	72	No Gas	503415.04	0.68	518337.463333333	97.12	60	120	
Sc	45	He	16814.18	2.85	20542.3	81.85	60	120	
Ge	72	He	19287.44	1.38	21932.34	87.94	60	120	
Rh	103	He	876588.16	0.41	910360.35	96.29	60	120	
Lu	175	He	439606.75	1.24	456033.236666667	96.4	60	120	

Sample Report

Sample Name	L735181-07 WG756921
File Name	082SMPL.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\112814ICPMS8.b
Acq Time	2014-11-28 16:01:16
Sample Type	Sample
Total Dilution	5.5556
Comment	---
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fial	Fail
ISTD QC Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD	Tune Mode	Conc.	Conc. RSD	CPS	LDR	QC Flag
B	10	45	No Gas	0.449	3.29	14457.67	5	
B	11	45	No Gas	0.436	1.46	68708.94	5	
Se	82	72	No Gas	0.010	12.00	1228.95	5	
Be	9	45	He	0.001	99.54	2.00	5	
Na	23	45	He	2250.786	1.26	51147580.90	90	>LDR
Mg	24	45	He	483.008	0.61	5018016.18	90	
Al	27	45	He	13.985	0.84	34293.53	90	
K	39	45	He	19.689	1.10	129018.13	90	
Ca	43	45	He	983.913	0.95	22238.82	90	>LDR
Ti	47	45	He	0.300	12.63	1073.39	5	
V	51	45	He	0.165	1.69	32209.44	5	
Cr	52	45	He	0.020	7.19	5937.98	5	
Mn	55	72	He	0.391	1.72	35480.35	5	
Fe	56	72	He	15.599	0.38	3152825.16	90	
Co	59	72	He	0.008	0.43	4670.83	5	
Ni	60	72	He	0.018	9.47	3230.42	5	
Cu	63	72	He	0.009	4.15	4890.90	5	
Zn	66	72	He	0.036	3.48	2176.88	5	
As	75	72	He	0.030	1.90	920.03	5	
Se	78	72	He	0.009	56.29	13.33	5	
Sr	88	72	He	15.581	0.39	1475267.22	5	
Mo	95	72	He	0.060	4.84	12208.83	5	
Ag	107	103	He	0.000	48.65	113.33	1	
Cd	111	103	He	0.000	30.49	26.67	5	
Sn	118	103	He	0.002	36.75	403.35	2	
Sb	121	103	He	0.003	19.37	643.36	1	
Ba	137	103	He	0.174	4.95	10774.43	2	
Tl	205	175	He	0.000	10.73	633.36	5	
Pb	208	175	He	0.010	0.79	24789.48	5	
U	238	175	He	0.132	1.06	341052.95	5	

QC ISTD Table

Sample Report

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc (No He)	45	No Gas	1767123.46	1.18	1916000.44	92.23	60	120	
Ge (No He)	72	No Gas	475702.44	2.12	518337.463333333	91.77	60	120	
Sc	45	He	16260.19	0.74	20542.3	79.15	60	120	
Ge	72	He	18540.88	0.67	21932.34	84.54	60	120	
Rh	103	He	781739.49	0.30	910360.35	85.87	60	120	
Lu	175	He	422594.15	0.57	456033.236666667	92.67	60	120	

Sample Report

Sample Name	L735181-08 WG756921
File Name	083SMPL.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\112814ICPMS8.b
Acq Time	2014-11-28 16:02:48
Sample Type	Sample
Total Dilution	5.5556
Comment	---
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fial	Fail
ISTD QC Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD	Tune Mode	Conc.	Conc. RSD	CPS	LDR	QC Flag
B	10	45	No Gas	0.189	0.53	6136.60	5	
B	11	45	No Gas	0.180	2.93	28675.41	5	
Se	82	72	No Gas	0.002	52.51	940.04	5	
Be	9	45	He	0.001	20.39	2.67	5	
Na	23	45	He	83.512	2.19	1831985.86	90	
Mg	24	45	He	136.869	1.36	1367702.58	90	
Al	27	45	He	9.157	3.88	21606.08	90	
K	39	45	He	16.800	2.31	106505.07	90	
Ca	43	45	He	801.669	2.24	17426.35	90	>LDR
Ti	47	45	He	0.170	22.17	586.69	5	
V	51	45	He	0.028	2.92	5251.02	5	
Cr	52	45	He	0.011	10.60	3303.77	5	
Mn	55	72	He	0.749	3.28	66311.41	5	
Fe	56	72	He	7.859	1.47	1550805.39	90	
Co	59	72	He	0.007	5.94	3920.61	5	
Ni	60	72	He	0.012	5.78	2130.20	5	
Cu	63	72	He	0.005	5.94	2540.27	5	
Zn	66	72	He	0.016	6.87	1150.07	5	
As	75	72	He	0.045	0.62	1338.29	5	
Se	78	72	He	0.005	64.47	9.00	5	
Sr	88	72	He	10.929	2.64	1008826.94	5	
Mo	95	72	He	0.030	6.83	5891.33	5	
Ag	107	103	He	0.000	15.11	86.67	1	
Cd	111	103	He	0.000	41.78	19.33	5	
Sn	118	103	He	0.002	18.19	303.34	2	
Sb	121	103	He	0.002	19.72	496.69	1	
Ba	137	103	He	0.180	0.80	11581.71	2	
Tl	205	175	He	0.000	3.32	990.06	5	
Pb	208	175	He	0.006	4.13	14836.92	5	
U	238	175	He	0.039	0.76	101507.56	5	

QC ISTD Table

Sample Report

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc (No He)	45	No Gas	1774971.27	2.69	1916000.44	92.64	60	120	
Ge (No He)	72	No Gas	490928.60	0.42	518337.463333333	94.71	60	120	
Sc	45	He	15639.54	1.54	20542.3	76.13	60	120	
Ge	72	He	18080.33	1.84	21932.34	82.44	60	120	
Rh	103	He	816301.94	0.21	910360.35	89.67	60	120	
Lu	175	He	425048.47	0.21	456033.236666667	93.21	60	120	

Sample Report

Sample Name	L735318-07 WG756921
File Name	084SMPL.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\112814ICPMS8.b
Acq Time	2014-11-28 16:04:20
Sample Type	Sample
Total Dilution	5.5556
Comment	---
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fial	Fail
ISTD QC Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD	Tune Mode	Conc.	Conc. RSD	CPS	LDR	QC Flag
B	10	45	No Gas	0.436	1.12	13845.07	5	
B	11	45	No Gas	0.421	1.22	65320.50	5	
Se	82	72	No Gas	0.013	9.85	1331.18	5	
Be	9	45	He	0.003	50.74	6.33	5	
Na	23	45	He	68.380	2.55	1475508.67	90	
Mg	24	45	He	195.700	0.98	1921713.04	90	
Al	27	45	He	34.883	0.02	80780.18	90	
K	39	45	He	25.898	0.16	159055.59	90	
Ca	43	45	He	1348.836	0.89	28811.87	90	>LDR
Ti	47	45	He	0.662	2.31	2226.87	5	
V	51	45	He	0.118	0.94	21753.18	5	
Cr	52	45	He	0.038	1.40	10076.99	5	
Mn	55	72	He	0.976	0.98	84884.12	5	
Fe	56	72	He	32.755	2.25	6336632.41	90	
Co	59	72	He	0.023	2.98	13196.17	5	
Ni	60	72	He	0.040	5.39	6891.76	5	
Cu	63	72	He	0.020	0.65	10190.46	5	
Zn	66	72	He	0.101	8.47	5040.96	5	
As	75	72	He	0.018	2.59	527.57	5	
Se	78	72	He	0.018	11.62	20.00	5	
Sr	88	72	He	13.980	1.59	1267847.77	5	
Mo	95	72	He	0.030	6.07	5958.02	5	
Ag	107	103	He	0.000	50.56	150.00	1	
Cd	111	103	He	0.001	12.69	49.33	5	
Sn	118	103	He	0.004	12.74	603.36	2	
Sb	121	103	He	0.002	7.10	506.68	1	
Ba	137	103	He	0.464	1.33	28847.30	2	
Tl	205	175	He	0.001	12.60	1673.47	5	
Pb	208	175	He	0.028	1.55	65735.96	5	
U	238	175	He	0.035	1.51	86921.50	5	

QC ISTD Table

Sample Report

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc (No He)	45	No Gas	1739051.07	1.45	1916000.44	90.76	60	120	
Ge (No He)	72	No Gas	477383.52	2.47	518337.463333333	92.1	60	120	
Sc	45	He	15368.09	0.59	20542.3	74.81	60	120	
Ge	72	He	17762.14	1.78	21932.34	80.99	60	120	
Rh	103	He	787918.43	0.42	910360.35	86.55	60	120	
Lu	175	He	408613.76	0.48	456033.236666667	89.6	60	120	

Sample Report

Sample Name	L735318-08 WG756921
File Name	085SMPL.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\112814ICPMS8.b
Acq Time	2014-11-28 16:06:06
Sample Type	Sample
Total Dilution	5.5556
Comment	---
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fial	Fail
ISTD QC Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD	Tune Mode	Conc.	Conc. RSD	CPS	LDR	QC Flag
B	10	45	No Gas	0.193	0.86	6179.28	5	
B	11	45	No Gas	0.188	0.58	29513.68	5	
Se	82	72	No Gas	0.008	17.08	1153.39	5	
Be	9	45	He	0.003	38.67	4.33	5	
Na	23	45	He	101.769	45.14	1652045.13	90	
Mg	24	45	He	127.755	46.07	942480.77	90	
Al	27	45	He	31.829	46.13	55373.94	90	
K	39	45	He	13.774	49.54	64877.07	90	
Ca	43	45	He	1580.077	47.00	25293.12	90	>LDR
Ti	47	45	He	0.621	36.78	1610.12	5	
V	51	45	He	0.099	43.73	13890.15	5	
Cr	52	45	He	0.046	50.30	8936.26	5	
Mn	55	72	He	0.647	48.25	41268.91	5	
Fe	56	72	He	30.709	47.02	4370213.58	90	
Co	59	72	He	0.015	45.93	6554.93	5	
Ni	60	72	He	0.031	45.28	3997.31	5	
Cu	63	72	He	0.018	50.21	6738.34	5	
Zn	66	72	He	0.093	53.49	3417.13	5	
As	75	72	He	0.010	55.04	219.11	5	
Se	78	72	He	0.021	70.70	16.33	5	
Sr	88	72	He	14.860	47.86	988851.08	5	
Mo	95	72	He	0.020	40.21	2883.68	5	
Ag	107	103	He	0.000	86.88	80.00	1	
Cd	111	103	He	0.000	86.73	20.67	5	
Sn	118	103	He	0.004	47.41	450.05	2	
Sb	121	103	He	0.003	48.23	440.02	1	
Ba	137	103	He	0.377	48.54	17254.45	2	
Tl	205	175	He	0.001	48.76	843.38	5	
Pb	208	175	He	0.024	47.86	40899.31	5	
U	238	175	He	0.019	48.42	34737.11	5	

QC ISTD Table

Sample Report

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc (No He)	45	No Gas	1749823.00	1.60	1916000.44	91.33	60	120	
Ge (No He)	72	No Gas	482896.50	1.00	518337.463333333	93.16	60	120	
Sc	45	He	12976.63	35.91	20542.3	63.17	60	120	
Ge	72	He	14784.37	37.19	21932.34	67.41	60	120	
Rh	103	He	658909.78	37.21	910360.35	72.38	60	120	
Lu	175	He	339562.13	36.86	456033.236666667	74.46	60	120	

Continuing Calibration Verification (CCV) Report

Sample Name	CCV 14K05175
File Name	086_CCV.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\112814ICPMS8.b
Acq Time	2014-11-28 16:07:37
Sample Type	CCV
Total Dilution	1.0000
Comment	---
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fial	Fail
ISTD QC Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD	Tune Mode	Conc.	Conc. RSD	CPS	ExpValue	% Rec	%QC Low	%QC High	QC Flag
B	10	45	No Gas	0.095	1.94	17159.17	0.9	10.53	10	10	
B	11	45	No Gas	0.089	2.79	79061.23	0.9	9.93	10	10	CCV Main CR1 Failed
Se	82	72	No Gas	0.103	2.31	23910.09	0.9	11.47	10	10	
Be	9	45	He	0.121	2.90	1362.40	0.9	13.4	10	10	CCV Main CR1 Failed
Na	23	45	He	11.109	3.01	1431919.20	0.9	1234.33	1000	1000	CCV Main CR1 Failed
Mg	24	45	He	10.539	1.80	618006.49	0.9	1171.05	1000	1000	
Al	27	45	He	0.981	3.95	13609.79	0.9	108.97	100	100	
K	39	45	He	9.715	2.45	351254.24	0.9	1079.45	1000	1000	
Ca	43	45	He	9.913	2.32	1271.73	0.9	1101.44	1000	1000	
Ti	47	45	He	0.103	6.97	2066.86	0.9	11.42	10	10	
V	51	45	He	0.108	1.94	119188.28	0.9	12	10	10	
Cr	52	45	He	0.110	1.60	163066.49	0.9	12.18	10	10	
Mn	55	72	He	0.097	2.63	49464.51	0.9	10.76	10	10	
Fe	56	72	He	1.011	0.97	1152083.52	0.9	112.34	100	100	
Co	59	72	He	0.107	1.26	360655.68	0.9	11.88	10	10	
Ni	60	72	He	0.108	0.98	108111.92	0.9	12	10	10	
Cu	63	72	He	0.109	1.28	319679.44	0.9	12.13	10	10	
Zn	66	72	He	0.102	1.31	27924.01	0.9	11.32	10	10	
As	75	72	He	0.101	0.56	17304.20	0.9	11.24	10	10	
Se	78	72	He	0.098	3.75	513.34	0.9	10.84	10	10	
Sr	88	72	He	0.095	2.41	50540.53	0.9	10.52	10	10	
Mo	95	72	He	0.111	0.22	128100.12	0.9	12.38	10	10	CCV Main CR1 Failed
Ag	107	103	He	0.104	0.37	533978.51	0.9	11.5	10	10	
Cd	111	103	He	0.097	1.17	48457.48	0.9	10.8	10	10	
Sn	118	103	He	0.095	1.34	87849.92	0.9	10.56	10	10	
Sb	121	103	He	0.093	1.57	106049.49	0.9	10.39	10	10	
Ba	137	103	He	0.094	2.81	35061.90	0.9	10.44	10	10	
Tl	205	175	He	0.111	0.70	1251374.02	0.9	12.37	10	10	CCV Main CR1 Failed
Pb	208	175	He	0.115	0.07	1584202.78	0.9	12.74	10	10	CCV Main CR1 Failed
U	238	175	He	0.116	0.58	1722269.19	0.9	12.86	10	10	CCV Main CR1 Failed

QC ISTD Table

Continuing Calibration Verification (CCV) Report

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc (No He)	45	No Gas	1786805.44	0.84	1916000.44	93.26	60	120	
Ge (No He)	72	No Gas	498065.06	1.13	518337.463333333	96.09	60	120	
Sc	45	He	16521.60	2.22	20542.3	80.43	60	120	
Ge	72	He	18772.33	0.99	21932.34	85.59	60	120	
Rh	103	He	851684.91	1.39	910360.35	93.55	60	120	
Lu	175	He	438297.31	0.33	456033.236666667	96.11	60	120	

Continuing Calibration Blank (CCB) Report

Sample Name	CCB 14K05174
File Name	087_CCB.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\112814ICPMS8.b
Acq Time	2014-11-28 16:09:09
Sample Type	CCB
Total Dilution	1.0000
Comment	---
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fial	Pass
ISTD QC Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD	Tune Mode	Conc.	Conc. RSD	CPS	Limit	QC Flag
B	10	45	No Gas	0.006	1.73	1195.38	0.015	
B	11	45	No Gas	0.006	0.11	5687.76	0.015	
Se	82	72	No Gas	0.000	1953.20	870.03	0.00075	
Be	9	45	He	0.000	173.21	0.33	0.00075	
Na	23	45	He	0.078	4.28	17904.41	0.75	
Mg	24	45	He	0.005	15.06	380.01	0.75	
Al	27	45	He	-0.002	N/A	30.00	0.0375	
K	39	45	He	-0.010	N/A	4270.71	0.75	
Ca	43	45	He	0.002	2342.05	8.00	0.75	
Ti	47	45	He	0.000	N/A	3.33	0.0075	
V	51	45	He	0.000	146.07	40.00	0.0015	
Cr	52	45	He	0.000	167.88	730.03	0.00075	
Mn	55	72	He	0.000	160.39	76.67	0.0015	
Fe	56	72	He	0.000	89.01	4404.10	0.0375	
Co	59	72	He	0.000	37.11	80.00	0.00075	
Ni	60	72	He	0.002	0.52	2213.54	0.00075	CCB Main CR1 Failed
Cu	63	72	He	0.000	23.24	303.34	0.0015	
Zn	66	72	He	0.000	N/A	370.01	0.0075	
As	75	72	He	0.000	26.72	17.33	0.00075	
Se	78	72	He	0.000	N/A	3.67	0.00075	
Sr	88	72	He	0.000	37.25	193.34	0.0075	
Mo	95	72	He	0.000	57.96	20.00	0.0015	
Ag	107	103	He	0.000	16.53	246.67	0.000375	
Cd	111	103	He	0.000	28.75	12.00	0.000375	
Sn	118	103	He	0.000	46.79	100.00	0.00075	
Sb	121	103	He	0.000	36.81	263.34	0.00075	
Ba	137	103	He	0.000	97.27	40.00	0.0015	
Tl	205	175	He	0.000	28.75	323.34	0.00075	
Pb	208	175	He	0.000	19.02	850.03	0.00075	
U	238	175	He	0.000	4.23	396.68	0.0075	

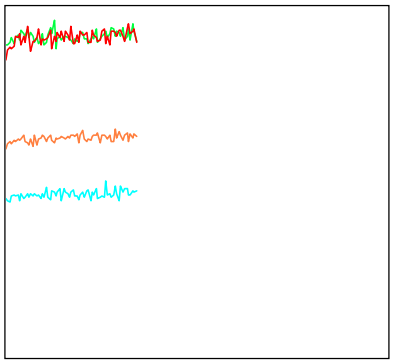
QC ISTD Table

Continuing Calibration Blank (CCB) Report

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc (No He)	45	No Gas	1806688.41	1.13	1916000.44	94.29	60	120	
Ge (No He)	72	No Gas	494436.88	0.76	518337.463333333	95.39	60	120	
Sc	45	He	16686.28	2.85	20542.3	81.23	60	120	
Ge	72	He	19328.58	0.74	21932.34	88.13	60	120	
Rh	103	He	856132.30	0.77	910360.35	94.04	60	120	
Lu	175	He	433091.52	1.11	456033.236666667	94.97	60	120	

Current Signal

[No Gas]



Mass	Range	Count	Avg. Count	RSD [%]
7	5000	2365	2321.3	2.57
59	20000	17998	18285.3	1.69
89	50000	31390	31205.2	1.74
205	20000	17946	18233.8	2.13
156/140	1	0.629 %	0.661 %	7.01
70/140	2	1.374 %	1.326 %	6.11
103	1000	534	553.9	5.20
Integration Time [sec]		0.10		

Plasma Parameters

RF Power	1550	W	Nebulizer Pump	0.10	rps
RF Matching	1.60	V	S/C Temp	2	℃
Smpl Depth	10.0	mm	Gas Switch	Dilution Gas	
Carrier Gas	0.75	L/min	Makeup/Dilution Gas	0.35	L/min
Option Gas	0.0	%			

Lenses Parameters

Extract 1	0.0	V	Cell Entrance	-30	V
Extract 2	-200.0	V	Cell Exit	-52	V
Omega Bias	-80	V	Deflect	15.4	V
Omega Lens	8.8	V	Plate Bias	-40	V

Cell Parameters

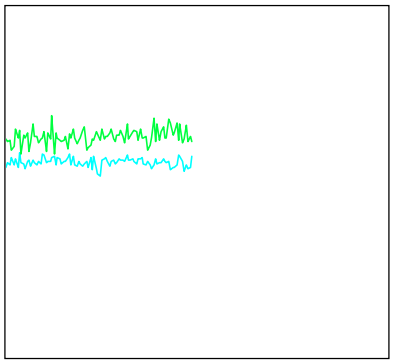
Use Gas	false		OctP Bias	-8.0	V
He Flow	5.0	mL/min	OctP RF	150	V
H2 Flow	0.0	mL/min	Energy Discrimination	5.0	V
3rd Gas Flow	0	%			

Meters

IF/BK Press	1.77E+2	Pa	Water RF/WC/IF	1.49	L/min
TMP Revolution	100.0	%	S/C Temp (L)	2.0	℃
Carrier Gas(BP)	3.17E+2	kPa			

Current Signal

[He]



Mass	Range	Count	Avg. Count	RSD [%]
59	5000	2860	2778.0	2.24
89	2000	1229	1257.5	3.48
51/59	1	0.105 %	0.077 %	64.68
75	20	0	0.3	245.36
78	20	0	0.5	147.30
Integration Time [sec]			0.10	

Plasma Parameters

RF Power	1550	W	Nebulizer Pump	0.10	rps
RF Matching	1.60	V	S/C Temp	2	℃
Smpl Depth	10.0	mm	Gas Switch	Dilution Gas	
Carrier Gas	0.75	L/min	Makeup/Dilution Gas	0.35	L/min
Option Gas	0.0	%			

Lenses Parameters

Extract 1	0.0	V	Cell Entrance	-36	V
Extract 2	-200.0	V	Cell Exit	-64	V
Omega Bias	-80	V	Deflect	4.0	V
Omega Lens	8.8	V	Plate Bias	-60	V

Cell Parameters

Use Gas	true		OctP Bias	-18.0	V
He Flow	4.9	mL/min	OctP RF	150	V
H2 Flow	0.0	mL/min	Energy Discrimination	5.0	V
3rd Gas Flow	0	%			

Meters

IF/BK Press	1.78E+2	Pa	Water RF/WC/IF	1.47	L/min
TMP Revolution	100.0	%	S/C Temp (L)	1.9	℃
Carrier Gas(BP)	3.18E+2	kPa			

Tune Report

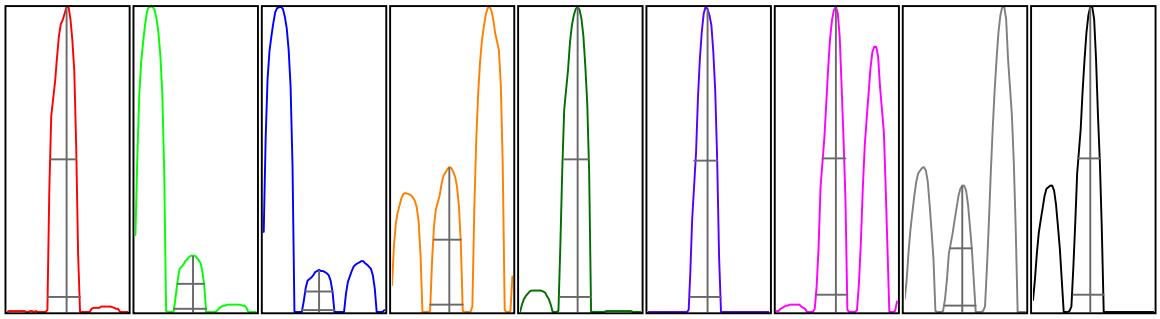
Batch Folder C:\Agilent\ICPMH\1\DATA\120114ICPMS8A.b
Acq. Date-Time 2014-12-01 15:07
Report Comment
Instrument Name G8403A JP14080166

[No Gas]

Mass	RSD % (Actual)	RSD % (Required)	RSD % (Flag)
9	0.99	5.00	
24	1.10	5.00	
25	1.63	5.00	
26	1.92	5.00	
59	0.76	5.00	
115	0.96	5.00	
206	0.73	5.00	
207	0.80	5.00	
208	0.45	5.00	

Mass	Rep. 1 Count	Rep. 2 Count	Rep. 3 Count	Rep. 4 Count	Rep. 5 Count
9	6381	6396	6502	6414	6328
24	50863	50576	50444	49951	49467
25	6983	6949	6796	6829	6712
26	8582	8296	8347	8396	8141
59	115710	115662	116401	115102	114064
115	176650	175378	178170	175291	173647
206	35675	35465	35765	35307	35133
207	30987	30764	30906	30445	30478
208	74270	73936	74182	74098	73430

Integration Time [sec] 0.1



Mass	Peak Height	Axis (Actual)	Axis (Required)	Axis (Flag)	W-50 %	W-5 % (Actual)	W-5 % (Required)	W-5 % (Flag)
9	1074.30	9.00	8.9 - 9.1		0.64	0.781	0.850	
24	8061.35	23.95	23.9 - 24.1		0.66	0.786	0.850	
25	1102.93	24.90	24.9 - 25.1		0.66	0.786	0.850	
26	1342.38	25.95	25.9 - 26.1		0.66	0.789	0.850	
59	19353.68	58.95	58.9 - 59.1		0.63	0.783	0.850	
115	32945.23	115.00	114.9 - 115.1		0.56	0.768	0.850	
206	6893.99	206.00	205.9 - 206.1		0.54	0.763	0.850	
207	5987.02	206.95	206.9 - 207.1		0.54	0.766	0.850	
208	14482.81	207.95	207.9 - 208.1		0.53	0.773	0.850	

Tune Report

Integration Time [sec] 0.1 **Acquisition Time [sec]** 212.5 **Y Axis** Linear

Tune Parameters
Plasma Paramters

RF Power	1550 W	Nebulizer Pump	0.10 rps
RF Matching	1.60 V	S/C Temp	2 ℃
Smpl Depth	10.0 mm	Gas Switch	Dilution Gas
Carrier Gas	0.75 L/min	Makeup/Dilution Gas	0.35 L/min
Option Gas	0.0 %		

Lenses Parameters

Extract 1	0.0 V	Cell Entrance	-30 V
Extract 2	-200.0 V	Cell Exit	-52 V
Omega Bias	-80 V	Deflect	15.4 V
Omega Lens	8.8 V	Plate Bias	-40 V

Cell Parameters

Use Gas	false	OctP Bias	-8.0 V
He Flow	0.0 mL/min	OctP RF	150 V
H2 Flow	0.0 mL/min	Energy Discrimination	5.0 V
3rd Gas Flow	0 %		

Calibration Blank Report

Sample Name	CALBLK 14K05174
File Name	001CALB.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\120114ICPMS8A.b
Acq Time	2014-12-01 15:12:53
Sample Type	CalBlk
Total Dilution	1.0000
Comment	---
ISTD Ref FileName	001CALB.d
Sample QC Pass/Fial	Pass
ISTD QC Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD	Tune Mode	CPS	CPS RSD
B	11	45	No Gas	742.69	5.50
Be	9	45	He	20.00	50.74
Na	23	45	He	9766.74	2.62
Mg	24	45	He	240.01	36.32
Al	27	45	He	56.67	73.47
K	39	45	He	5647.84	4.23
Ca	43	45	He	4.00	25.00
V	51	45	He	13.33	43.30
Cr	52	45	He	823.37	7.12
Mn	55	72	He	26.67	78.06
Fe	56	72	He	3117.06	10.62
Co	59	72	He	5704.78	51.79
Ni	60	72	He	130.00	30.77
Cu	63	72	He	5194.54	45.29
Zn	66	72	He	233.34	40.51
As	75	72	He	2.22	69.44
Se	78	72	He	4.67	32.73
Sr	88	72	He	83.33	30.20
Mo	95	72	He	6.67	86.60
Ag	107	103	He	3.33	173.21
Cd	111	103	He	1.33	86.60
Sn	118	103	He	43.33	35.25
Sb	121	103	He	13.33	43.30
Ba	137	103	He	580.03	51.06
Tl	205	175	He	280.01	7.14
Pb	208	175	He	20461.35	55.12
U	238	175	He	23368.35	47.05

QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD
Sc (No He)	45	No Gas	578603.36	11.96
Ge (No He)	72	No Gas	139586.11	15.56
Sc	45	He	15421.59	12.25
Ge	72	He	17671.07	13.69

Calibration Blank Report

Name	Mass	Tune Mode	CPS	CPS RSD
Rh	103	He	733103.88	10.66
Lu	175	He	365426.80	12.44

Calibration Blank Report

Sample Name	CALBLK 14K05174
File Name	002CALB.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\120114ICPMS8A.b
Acq Time	2014-12-01 15:14:39
Sample Type	CalBlk
Total Dilution	1.0000
Comment	---
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fial	Pass
ISTD QC Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD	Tune Mode	CPS	CPS RSD
B	11	45	No Gas	698.02	4.96
Na	23	45	He	10884.12	6.86
Mg	24	45	He	376.68	10.73
Al	27	45	He	23.33	24.74
K	39	45	He	5801.27	5.00
Ca	43	45	He	7.33	47.89
V	51	45	He	16.67	34.64
Cr	52	45	He	803.37	8.29
Mn	55	72	He	26.67	21.65
Fe	56	72	He	3097.05	4.15
Co	59	72	He	250.01	24.33
Ni	60	72	He	86.67	43.68
Cu	63	72	He	236.67	16.00
Zn	66	72	He	193.34	25.52
As	75	72	He	2.22	124.96
Se	78	72	He	3.67	41.66
Sr	88	72	He	206.67	7.39
Ag	107	103	He	10.00	100.00
Cd	111	103	He	2.00	0.00
Sn	118	103	He	56.67	26.96
Sb	121	103	He	26.67	94.37
Ba	137	103	He	53.33	28.64
Tl	205	175	He	86.67	29.04
Pb	208	175	He	1073.37	16.36
U	238	175	He	1043.40	15.23

QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD
Sc (No He)	45	No Gas	1795046.74	1.05
Ge (No He)	72	No Gas	501274.81	0.75
Sc	45	He	19045.79	1.85
Ge	72	He	21484.99	1.46
Rh	103	He	884571.60	0.60
Lu	175	He	455248.86	0.23

Calibration Standard Report

Sample Name	STD1 14K05175
File Name	003CALS.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\120114ICPMS8A.b
Acq Time	2014-12-01 15:16:32
Sample Type	CalStd
Total Dilution	1.0000
Comment	---
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fial	Pass
ISTD QC Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD	Tune Mode	CPS	CPS RSD
B	11	45	No Gas	1630.09	1.21
Se	82	72	No Gas	167.14	42.16
Be	9	45	He	17.67	23.57
Na	23	45	He	26550.84	2.96
Mg	24	45	He	7838.88	4.76
Al	27	45	He	210.00	17.17
K	39	45	He	10203.70	4.60
Ca	43	45	He	24.00	7.22
Ti	47	45	He	10.00	100.00
V	51	45	He	1423.43	15.33
Cr	52	45	He	2810.32	9.92
Mn	55	72	He	690.02	10.45
Fe	56	72	He	19243.10	7.10
Co	59	72	He	4297.39	2.89
Ni	60	72	He	1490.10	7.91
Cu	63	72	He	4013.95	9.44
Zn	66	72	He	636.69	15.42
As	75	72	He	220.00	12.66
Se	78	72	He	11.67	13.09
Sr	88	72	He	863.38	22.26
Mo	95	72	He	1473.44	6.59
Ag	107	103	He	5988.05	9.68
Cd	111	103	He	544.68	3.93
Sn	118	103	He	1016.72	17.60
Sb	121	103	He	1286.75	15.28
Ba	137	103	He	443.35	17.52
Tl	205	175	He	12663.02	2.03
Pb	208	175	He	16934.63	8.71
U	238	175	He	16651.14	10.97

QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc (No He)	45	No Gas	1841424.24	2.02	1795046.74333333	102.58	60	120	
Ge (No He)	72	No Gas	508311.23	0.84	501274.81	101.4	60	120	

Calibration Standard Report

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc	45	He	19563.09	1.60	19045.7933333333	102.72	60	120	
Ge	72	He	21330.32	1.61	21484.9866666667	99.28	60	120	
Rh	103	He	892062.93	0.36	884571.603333333	100.85	60	120	
Lu	175	He	459320.76	0.71	455248.86	100.89	60	120	

Calibration Standard Report

Sample Name	STD2 14K05175
File Name	004CALS.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\120114ICPMS8A.b
Acq Time	2014-12-01 15:18:17
Sample Type	CalStd
Total Dilution	1.0000
Comment	---
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fial	Pass
ISTD QC Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD	Tune Mode	CPS	CPS RSD
B	11	45	No Gas	2759.59	3.50
Se	82	72	No Gas	549.11	24.73
Be	9	45	He	32.00	21.65
Na	23	45	He	43798.52	3.74
Mg	24	45	He	15945.49	6.25
Al	27	45	He	343.34	16.56
K	39	45	He	14927.80	3.95
Ca	43	45	He	45.33	23.38
Ti	47	45	He	36.67	15.75
V	51	45	He	2790.32	11.18
Cr	52	45	He	4614.16	8.51
Mn	55	72	He	1413.43	17.28
Fe	56	72	He	31698.54	8.17
Co	59	72	He	8809.52	5.27
Ni	60	72	He	2843.65	5.85
Cu	63	72	He	7665.50	1.11
Zn	66	72	He	813.37	14.20
As	75	72	He	435.56	4.11
Se	78	72	He	18.00	16.67
Sr	88	72	He	1396.76	6.26
Mo	95	72	He	2950.37	11.18
Ag	107	103	He	11741.79	2.62
Cd	111	103	He	1154.05	1.35
Sn	118	103	He	2076.86	14.63
Sb	121	103	He	2633.63	8.96
Ba	137	103	He	856.71	1.35
Tl	205	175	He	26597.26	2.52
Pb	208	175	He	34385.05	7.03
U	238	175	He	34546.76	8.19

QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc (No He)	45	No Gas	1828240.24	1.46	1795046.74333333	101.85	60	120	
Ge (No He)	72	No Gas	505093.16	0.31	501274.81	100.76	60	120	

Calibration Standard Report

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc	45	He	19786.77	1.34	19045.7933333333	103.89	60	120	
Ge	72	He	21989.08	0.84	21484.9866666667	102.35	60	120	
Rh	103	He	895842.98	0.20	884571.603333333	101.27	60	120	
Lu	175	He	467790.53	0.82	455248.86	102.75	60	120	

Calibration Standard Report

Sample Name	STD3 14K05175
File Name	005CALS.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\120114ICPMS8A.b
Acq Time	2014-12-01 15:20:01
Sample Type	CalStd
Total Dilution	1.0000
Comment	---
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fial	Pass
ISTD QC Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD	Tune Mode	CPS	CPS RSD
B	11	45	No Gas	10210.17	3.17
Se	82	72	No Gas	2452.25	2.21
Be	9	45	He	144.00	4.17
Na	23	45	He	178212.06	3.22
Mg	24	45	He	76096.01	6.47
Al	27	45	He	1746.81	9.74
K	39	45	He	50955.47	0.47
Ca	43	45	He	159.67	13.47
Ti	47	45	He	266.67	15.16
V	51	45	He	14117.08	7.06
Cr	52	45	He	19633.63	7.43
Mn	55	72	He	6161.45	9.51
Fe	56	72	He	138304.60	6.84
Co	59	72	He	42051.63	6.95
Ni	60	72	He	12482.23	7.02
Cu	63	72	He	37372.22	7.26
Zn	66	72	He	3487.16	4.73
As	75	72	He	2144.17	8.83
Se	78	72	He	66.33	6.09
Sr	88	72	He	6138.09	9.25
Mo	95	72	He	14707.90	7.78
Ag	107	103	He	59670.38	4.40
Cd	111	103	He	5653.16	5.43
Sn	118	103	He	9883.65	7.56
Sb	121	103	He	12462.47	8.73
Ba	137	103	He	3887.29	6.56
Tl	205	175	He	127684.96	2.71
Pb	208	175	He	163432.69	5.07
U	238	175	He	167476.94	6.76

QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc (No He)	45	No Gas	1839988.62	1.43	1795046.74333333	102.5	60	120	
Ge (No He)	72	No Gas	508328.25	0.37	501274.81	101.41	60	120	

Calibration Standard Report

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc	45	He	19563.14	1.91	19045.7933333333	102.72	60	120	
Ge	72	He	21843.31	0.78	21484.9866666667	101.67	60	120	
Rh	103	He	903310.61	0.12	884571.603333333	102.12	60	120	
Lu	175	He	467186.53	0.80	455248.86	102.62	60	120	

Calibration Standard Report

Sample Name	STD4 14K05175
File Name	006CALS.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\120114ICPMS8A.b
Acq Time	2014-12-01 15:21:45
Sample Type	CalStd
Total Dilution	1.0000
Comment	---
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fial	Pass
ISTD QC Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD	Tune Mode	CPS	CPS RSD
B	11	45	No Gas	49284.70	0.61
Se	82	72	No Gas	12727.87	1.03
Be	9	45	He	728.02	4.00
Na	23	45	He	845862.46	3.31
Mg	24	45	He	381243.21	6.50
Al	27	45	He	8732.73	8.04
K	39	45	He	229701.23	1.50
Ca	43	45	He	787.35	3.79
Ti	47	45	He	1260.08	6.78
V	51	45	He	69325.96	6.22
Cr	52	45	He	95017.81	7.88
Mn	55	72	He	30305.34	5.90
Fe	56	72	He	675816.32	7.16
Co	59	72	He	208364.62	6.42
Ni	60	72	He	61651.63	6.27
Cu	63	72	He	182295.30	7.28
Zn	66	72	He	17080.49	7.47
As	75	72	He	10524.33	5.92
Se	78	72	He	304.33	7.47
Sr	88	72	He	32050.14	5.92
Mo	95	72	He	73035.97	6.67
Ag	107	103	He	293857.94	3.70
Cd	111	103	He	27316.65	5.61
Sn	118	103	He	49843.26	6.36
Sb	121	103	He	62751.94	5.47
Ba	137	103	He	20181.81	6.89
Tl	205	175	He	641639.09	3.50
Pb	208	175	He	809981.81	5.59
U	238	175	He	839600.35	7.28

QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc (No He)	45	No Gas	1877868.46	0.99	1795046.74333333	104.61	60	120	
Ge (No He)	72	No Gas	511914.56	0.69	501274.81	102.12	60	120	

Calibration Standard Report

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc	45	He	19668.81	1.10	19045.7933333333	103.27	60	120	
Ge	72	He	21430.48	0.49	21484.9866666667	99.75	60	120	
Rh	103	He	890520.64	0.79	884571.603333333	100.67	60	120	
Lu	175	He	470500.75	0.83	455248.86	103.35	60	120	

Calibration Standard Report

Sample Name	STD5 14K05175
File Name	007CALS.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\120114ICPMS8A.b
Acq Time	2014-12-01 15:23:28
Sample Type	CalStd
Total Dilution	1.0000
Comment	---
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fial	Pass
ISTD QC Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD	Tune Mode	CPS	CPS RSD
B	11	45	No Gas	99969.49	2.27
Se	82	72	No Gas	25240.91	0.94
Be	9	45	He	1484.74	5.93
Na	23	45	He	1721207.73	2.81
Mg	24	45	He	764904.91	4.91
Al	27	45	He	17086.87	6.44
K	39	45	He	462372.30	1.38
Ca	43	45	He	1676.10	4.78
Ti	47	45	He	2576.95	13.40
V	51	45	He	141933.26	5.92
Cr	52	45	He	191604.69	6.73
Mn	55	72	He	61172.70	5.37
Fe	56	72	He	1361786.33	6.73
Co	59	72	He	420589.21	5.65
Ni	60	72	He	124298.39	5.00
Cu	63	72	He	362676.15	5.43
Zn	66	72	He	34404.73	5.94
As	75	72	He	21154.70	4.43
Se	78	72	He	662.69	4.12
Sr	88	72	He	65538.45	5.90
Mo	95	72	He	148517.39	5.86
Ag	107	103	He	594384.21	2.86
Cd	111	103	He	55737.39	6.30
Sn	118	103	He	99492.02	7.39
Sb	121	103	He	127617.29	4.86
Ba	137	103	He	40734.05	3.70
Tl	205	175	He	1284364.23	1.23
Pb	208	175	He	1636467.22	5.08
U	238	175	He	1710502.06	7.17

QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc (No He)	45	No Gas	1884825.96	0.76	1795046.74333333	105	60	120	
Ge (No He)	72	No Gas	511051.19	0.71	501274.81	101.95	60	120	

Calibration Standard Report

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc	45	He	19821.26	2.44	19045.7933333333	104.07	60	120	
Ge	72	He	21852.21	0.95	21484.9866666667	101.71	60	120	
Rh	103	He	895215.69	1.16	884571.603333333	101.2	60	120	
Lu	175	He	471012.99	0.87	455248.86	103.46	60	120	

Calibration Standard Report

Sample Name	STD6 14K05175
File Name	008CALS.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\120114ICPMS8A.b
Acq Time	2014-12-01 15:25:11
Sample Type	CalStd
Total Dilution	1.0000
Comment	---
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fial	Pass
ISTD QC Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD	Tune Mode	CPS	CPS RSD
B	11	45	No Gas	196237.80	1.16
Se	82	72	No Gas	49162.28	1.37
Be	9	45	He	2937.96	3.59
Na	23	45	He	3296844.53	1.17
Mg	24	45	He	1507054.97	4.22
Al	27	45	He	34083.06	4.36
K	39	45	He	897950.97	0.90
Ca	43	45	He	3158.34	2.30
Ti	47	45	He	4880.90	6.64
V	51	45	He	282504.95	4.57
Cr	52	45	He	375875.20	6.03
Mn	55	72	He	121428.89	4.82
Fe	56	72	He	2739484.08	4.86
Co	59	72	He	824290.25	4.58
Ni	60	72	He	244337.28	5.42
Cu	63	72	He	712929.00	3.85
Zn	66	72	He	66496.87	4.16
As	75	72	He	41904.53	3.44
Se	78	72	He	1259.73	7.24
Sr	88	72	He	126454.16	4.71
Mo	95	72	He	293910.94	5.13
Ag	107	103	He	894883.09	5.90
Cd	111	103	He	108870.28	3.82
Sn	118	103	He	196843.57	5.45
Sb	121	103	He	246995.80	3.78
Ba	137	103	He	80317.58	1.73
Tl	205	175	He	2628618.76	1.37
Pb	208	175	He	3192754.45	3.53
U	238	175	He	3483188.38	5.19

QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc (No He)	45	No Gas	1847914.56	2.40	1795046.74333333	102.95	60	120	
Ge (No He)	72	No Gas	508219.17	2.19	501274.81	101.39	60	120	

Calibration Standard Report

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc	45	He	19716.66	0.18	19045.7933333333	103.52	60	120	
Ge	72	He	21929.00	2.55	21484.9866666667	102.07	60	120	
Rh	103	He	886445.64	0.19	884571.603333333	100.21	60	120	
Lu	175	He	473510.09	1.06	455248.86	104.01	60	120	

Initial Calibration Verification (ICV) Report

Sample Name	ICV 14K05178
File Name	009_ICV.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\120114ICPMS8A.b
Acq Time	2014-12-01 15:26:52
Sample Type	ICV
Total Dilution	1.0000
Comment	---
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fial	Fail
ISTD QC Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD	Tune Mode	Conc.	Conc. RSD	CPS	ExpValue	% Rec	%QC Low	%QC High	QC Flag
B	10	45	No Gas	0.104	3.14	21921.39	0.9	11.57	10	10	
B	11	45	No Gas	0.106	1.64	106060.93	0.9	11.76	10	10	
Se	82	72	No Gas	0.103	2.17	25559.05	0.9	11.43	10	10	
Be	9	45	He	0.111	3.61	1606.42	0.9	12.32	10	10	ICV Main CR1 Failed
Na	23	45	He	10.583	2.79	1737317.16	0.9	1175.93	1000	1000	
Mg	24	45	He	10.656	2.96	793275.56	0.9	1184.01	1000	1000	
Al	27	45	He	1.068	2.55	17964.58	0.9	118.7	100	100	
K	39	45	He	10.420	2.97	465490.38	0.9	1157.81	1000	1000	
Ca	43	45	He	10.514	0.26	1656.09	0.9	1168.18	1000	1000	
Ti	47	45	He	0.119	3.95	2903.67	0.9	13.27	10	10	ICV Main CR1 Failed
V	51	45	He	0.107	2.78	148818.60	0.9	11.89	10	10	
Cr	52	45	He	0.109	2.66	203435.14	0.9	12.15	10	10	
Mn	55	72	He	0.108	1.70	65216.51	0.9	12.01	10	10	
Fe	56	72	He	1.068	3.60	1450102.64	0.9	118.68	100	100	
Co	59	72	He	0.107	1.20	438946.47	0.9	11.87	10	10	
Ni	60	72	He	0.107	2.06	129784.97	0.9	11.85	10	10	
Cu	63	72	He	0.107	1.66	380342.72	0.9	11.89	10	10	
Zn	66	72	He	0.107	1.59	35584.28	0.9	11.87	10	10	
As	75	72	He	0.106	0.64	22099.64	0.9	11.78	10	10	
Se	78	72	He	0.105	2.54	665.02	0.9	11.7	10	10	
Sr	88	72	He	0.107	1.91	67550.60	0.9	11.86	10	10	
Mo	95	72	He	0.106	1.77	154390.03	0.9	11.74	10	10	
Ag	107	103	He	0.103	0.53	600881.62	0.9	11.45	10	10	
Cd	111	103	He	0.108	0.36	58314.78	0.9	11.97	10	10	
Sn	118	103	He	0.110	1.24	107170.19	0.9	12.19	10	10	
Sb	121	103	He	0.105	0.56	128914.23	0.9	11.64	10	10	
Ba	137	103	He	0.108	1.39	43171.47	0.9	12.03	10	10	
Tl	205	175	He	0.101	1.21	1322448.94	0.9	11.23	10	10	
Pb	208	175	He	0.106	0.90	1709752.88	0.9	11.81	10	10	
U	238	175	He	0.105	1.47	1817742.52	0.9	11.64	10	10	

QC ISTD Table

Initial Calibration Verification (ICV) Report

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc (No He)	45	No Gas	1885301.69	0.95	1795046.74333333	105.03	60	120	
Ge (No He)	72	No Gas	511053.00	1.63	501274.81	101.95	60	120	
Sc	45	He	19435.18	2.43	19045.7933333333	102.04	60	120	
Ge	72	He	21714.21	2.09	21484.9866666667	101.07	60	120	
Rh	103	He	879193.17	0.92	884571.603333333	99.39	60	120	
Lu	175	He	473452.05	1.05	455248.86	104	60	120	

Initial Calibration Blank (ICB) Report

Sample Name	ICB 14K05174
File Name	010_ICB.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\120114ICPMS8A.b
Acq Time	2014-12-01 15:29:06
Sample Type	ICB
Total Dilution	1.0000
Comment	---
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fial	Pass
ISTD QC Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD	Tune Mode	Conc.	Conc. RSD	CPS	Limit	QC Flag
B	10	45	No Gas	0.004	1.70	972.03	0.015	
B	11	45	No Gas	0.004	3.18	4566.71	0.015	
Se	82	72	No Gas	0.000	N/A	-107.05	0.00075	
Be	9	45	He	0.000	60.87	1.67	0.00075	
Na	23	45	He	-0.004	N/A	10323.76	0.75	
Mg	24	45	He	-0.002	N/A	263.34	0.75	
Al	27	45	He	0.000	52465.51	23.33	0.0375	
K	39	45	He	-0.006	N/A	5561.16	0.75	
Ca	43	45	He	0.015	181.87	9.67	0.75	
Ti	47	45	He	0.000	173.21	6.67	0.0075	
V	51	45	He	0.000	89.26	43.33	0.0015	
Cr	52	45	He	0.000	92.84	930.04	0.00075	
Mn	55	72	He	0.000	226.47	33.33	0.0015	
Fe	56	72	He	0.000	N/A	3093.72	0.0375	
Co	59	72	He	0.000	N/A	80.00	0.00075	
Ni	60	72	He	0.000	26.18	136.67	0.00075	
Cu	63	72	He	0.000	N/A	210.00	0.0015	
Zn	66	72	He	0.000	122.22	236.67	0.0075	
As	75	72	He	0.000	101.11	8.00	0.00075	
Se	78	72	He	0.000	644.33	4.33	0.00075	
Sr	88	72	He	0.000	N/A	113.33	0.0075	
Mo	95	72	He	0.000	62.84	36.67	0.0015	
Ag	107	103	He	0.000	4.98	530.02	0.000375	
Cd	111	103	He	0.000	39.74	28.00	0.000375	
Sn	118	103	He	0.000	12.45	103.33	0.00075	
Sb	121	103	He	0.000	8.95	406.68	0.00075	
Ba	137	103	He	0.000	N/A	20.00	0.0015	
Tl	205	175	He	0.000	20.10	340.01	0.00075	
Pb	208	175	He	0.000	N/A	963.37	0.00075	
U	238	175	He	0.000	N/A	460.02	0.0075	

QC ISTD Table

Initial Calibration Blank (ICB) Report

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc (No He)	45	No Gas	1840082.06	0.83	1795046.74333333	102.51	60	120	
Ge (No He)	72	No Gas	502862.97	0.37	501274.81	100.32	60	120	
Sc	45	He	19154.83	2.04	19045.7933333333	100.57	60	120	
Ge	72	He	21549.55	1.42	21484.9866666667	100.3	60	120	
Rh	103	He	880944.96	1.01	884571.603333333	99.59	60	120	
Lu	175	He	454074.26	1.74	455248.86	99.74	60	120	

Low Level Initial Calibration Verification(LLICV) Report

Sample Name	LLICV 14K05179
File Name	012LICV.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\120114ICPMS8A.b
Acq Time	2014-12-01 15:32:11
Sample Type	LLICV
Total Dilution	1.0000
Comment	---
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fial	Pass
ISTD QC Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD	Tune Mode	Conc.	Conc. RSD	CPS	ExpValue	% Rec	%QC Low	%QC High	QC Flag
Be	9	45	He	0.001	26.91	14.33	0.001	93.36	70	130	
V	51	45	He	0.002	3.91	2923.68	0.002	103.85	70	130	
Cr	52	45	He	0.001	6.27	2967.04	0.001	114.82	70	130	
Mn	55	72	He	0.002	0.11	1330.08	0.002	108.37	70	130	
Co	59	72	He	0.001	5.39	4237.35	0.001	97.36	70	130	
Ni	60	72	He	0.001	3.71	1420.10	0.001	109.88	70	130	
Cu	63	72	He	0.001	2.80	4027.32	0.001	107	70	130	
Zn	66	72	He	0.011	5.00	3717.21	0.01	106.65	70	130	
As	75	72	He	0.001	8.84	222.67	0.001	106.16	70	130	
Se	78	72	He	0.001	98.94	8.67	0.001	79.07	70	130	
Mo	95	72	He	0.002	3.98	3023.71	0.002	103.8	70	130	
Ag	107	103	He	0.001	7.58	3153.75	0.0005	106.24	70	130	
Cd	111	103	He	0.001	3.73	277.33	0.0005	100.18	70	130	
Sn	118	103	He	0.001	2.87	1143.40	0.001	109.57	70	130	
Sb	121	103	He	0.001	6.08	1310.09	0.001	102.67	70	130	
Ba	137	103	He	0.002	13.36	813.38	0.002	93.97	70	130	
Tl	205	175	He	0.001	1.23	13126.75	0.001	102.75	70	130	
Pb	208	175	He	0.001	3.33	17334.75	0.001	104.31	70	130	

QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc (No He)	45	No Gas	1853896.43	0.24	1795046.74333333	103.28	60	120	
Ge (No He)	72	No Gas	503785.14	0.10	501274.81	100.5	60	120	
Sc	45	He	19566.48	2.55	19045.7933333333	102.73	60	120	
Ge	72	He	21641.92	0.67	21484.9866666667	100.73	60	120	
Rh	103	He	892762.59	0.71	884571.603333333	100.93	60	120	
Lu	175	He	459082.60	1.04	455248.86	100.84	60	120	

Interference Check Solution A (ICS-A) Report

Sample Name	ICSA 14K05180
File Name	013ICSA.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\120114ICPMS8A.b
Acq Time	2014-12-01 15:33:43
Sample Type	ICSA
Total Dilution	1.0000
Comment	---
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fial	Pass
ISTD QC Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD	Tune Mode	Conc.	Conc. RSD	CPS	ExpValue	%QC Low	%QC High	QC Flag
Na	23	45	He	96.590	1.48	15382125.60	0.8	10000	10000	
Mg	24	45	He	96.759	2.51	7024286.98	0.8	10000	10000	
Al	27	45	He	102.193	3.29	1673693.99	0.8	10000	10000	
K	39	45	He	99.398	2.14	4282829.52	0.8	10000	10000	
Ca	43	45	He	92.721	0.14	14187.52	0.8	10000	10000	
Ti	47	45	He	2.103	2.19	49885.63	0.8	200	200	
Fe	56	72	He	97.747	2.58	129110234.74	0.8	10000	10000	
Mo	95	72	He	2.053	1.20	2924667.66	0.8	200	200	

QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc (No He)	45	No Gas	1781125.76	1.96	1795046.74333333	99.22	60	120	
Ge (No He)	72	No Gas	495499.99	1.40	501274.81	98.85	60	120	
Sc	45	He	18956.75	1.48	19045.7933333333	99.53	60	120	
Ge	72	He	21168.97	1.94	21484.9866666667	98.53	60	120	
Rh	103	He	820210.35	0.31	884571.603333333	92.72	60	120	
Lu	175	He	454963.17	0.56	455248.86	99.94	60	120	

Interference Check Solution AB (ICS-AB) Report

Sample Name	ICSAB 14K05181
File Name	014ICSB.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\120114ICPMS8A.b
Acq Time	2014-12-01 15:35:14
Sample Type	ICSB
Total Dilution	1.0000
Comment	---
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fial	Pass
ISTD QC Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD	Tune Mode	Conc.	Conc. RSD	CPS	ExpValue	%QC Low	%QC High	QC Flag

QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc (No He)	45	No Gas	1785990.91	1.33	1795046.74333333	99.5	60	120	
Ge (No He)	72	No Gas	496936.58	0.39	501274.81	99.13	60	120	
Sc	45	He	18514.01	1.90	19045.7933333333	97.21	60	120	
Ge	72	He	20798.42	1.09	21484.9866666667	96.8	60	120	
Rh	103	He	817329.26	0.50	884571.603333333	92.4	60	120	
Lu	175	He	454159.37	0.15	455248.86	99.76	60	120	

Continuing Calibration Verification (CCV) Report

Sample Name	CCV 14K05175
File Name	145_CCV.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\120114ICPMS8A.b
Acq Time	2014-12-01 21:08:48
Sample Type	CCV
Total Dilution	1.0000
Comment	---
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fial	Pass
ISTD QC Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD	Tune Mode	Conc.	Conc. RSD	CPS	ExpValue	% Rec	%QC Low	%QC High	QC Flag
B	10	45	No Gas	0.093	2.38	19061.48	0.9	10.37	10	10	
B	11	45	No Gas	0.093	1.48	90431.28	0.9	10.33	10	10	
Se	82	72	No Gas	0.100	0.97	24391.73	0.9	11.16	10	10	
Be	9	45	He	0.104	1.91	1488.74	0.9	11.52	10	10	
Na	23	45	He	10.385	0.37	1690160.71	0.9	1153.85	1000	1000	
Mg	24	45	He	10.429	1.63	769606.68	0.9	1158.79	1000	1000	
Al	27	45	He	1.041	3.63	17340.39	0.9	115.62	100	100	
K	39	45	He	10.329	0.78	457456.02	0.9	1147.65	1000	1000	
Ca	43	45	He	10.293	0.63	1606.76	0.9	1143.7	1000	1000	
Ti	47	45	He	0.108	5.60	2610.28	0.9	12.03	10	10	
V	51	45	He	0.105	1.05	144619.62	0.9	11.66	10	10	
Cr	52	45	He	0.106	1.94	196006.94	0.9	11.81	10	10	
Mn	55	72	He	0.105	1.79	62464.45	0.9	11.67	10	10	
Fe	56	72	He	1.028	2.66	1375333.68	0.9	114.23	100	100	
Co	59	72	He	0.105	1.36	424327.44	0.9	11.65	10	10	
Ni	60	72	He	0.104	2.42	125145.14	0.9	11.59	10	10	
Cu	63	72	He	0.104	1.40	365172.43	0.9	11.59	10	10	
Zn	66	72	He	0.105	2.28	34451.51	0.9	11.66	10	10	
As	75	72	He	0.105	1.59	21468.47	0.9	11.62	10	10	
Se	78	72	He	0.096	6.53	600.01	0.9	10.72	10	10	
Sr	88	72	He	0.103	1.76	63950.78	0.9	11.4	10	10	
Mo	95	72	He	0.104	1.31	149497.39	0.9	11.54	10	10	
Ag	107	103	He	0.101	0.85	581119.74	0.9	11.18	10	10	
Cd	111	103	He	0.102	1.03	54759.16	0.9	11.35	10	10	
Sn	118	103	He	0.105	1.02	101736.85	0.9	11.69	10	10	
Sb	121	103	He	0.103	0.93	125719.26	0.9	11.46	10	10	
Ba	137	103	He	0.104	3.08	40941.28	0.9	11.52	10	10	
Tl	205	175	He	0.100	0.41	1226182.17	0.9	11.14	10	10	
Pb	208	175	He	0.104	0.88	1566404.69	0.9	11.59	10	10	
U	238	175	He	0.101	1.22	1638094.25	0.9	11.23	10	10	

QC ISTD Table

Continuing Calibration Verification (CCV) Report

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc (No He)	45	No Gas	1827118.51	0.77	1795046.74333333	101.79	60	120	
Ge (No He)	72	No Gas	499473.16	0.67	501274.81	99.64	60	120	
Sc	45	He	19258.28	0.82	19045.7933333333	101.12	60	120	
Ge	72	He	21391.54	1.76	21484.9866666667	99.57	60	120	
Rh	103	He	870643.81	1.15	884571.603333333	98.43	60	120	
Lu	175	He	442278.86	1.66	455248.86	97.15	60	120	

Continuing Calibration Blank (CCB) Report

Sample Name	CCB 14K05174
File Name	146_CCB.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\120114ICPMS8A.b
Acq Time	2014-12-01 21:10:21
Sample Type	CCB
Total Dilution	1.0000
Comment	---
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fial	Pass
ISTD QC Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD	Tune Mode	Conc.	Conc. RSD	CPS	Limit	QC Flag
B	10	45	No Gas	0.005	8.47	1052.71	0.015	
B	11	45	No Gas	0.005	3.93	5195.58	0.015	
Se	82	72	No Gas	0.000	562.88	-0.48	0.00075	
Be	9	45	He	0.000	305.36	1.00	0.00075	
Na	23	45	He	0.015	16.68	13176.07	0.75	
Mg	24	45	He	0.004	42.15	626.69	0.75	
Al	27	45	He	0.001	101.55	40.00	0.0375	
K	39	45	He	0.003	253.70	5857.93	0.75	
Ca	43	45	He	0.003	1738.24	7.67	0.75	
Ti	47	45	He	0.000	173.21	3.33	0.0075	
V	51	45	He	0.000	27.29	73.33	0.0015	
Cr	52	45	He	0.000	28.11	850.04	0.00075	
Mn	55	72	He	0.000	60.86	36.67	0.0015	
Fe	56	72	He	0.000	N/A	2516.93	0.0375	
Co	59	72	He	0.000	N/A	150.00	0.00075	
Ni	60	72	He	0.000	99.84	126.67	0.00075	
Cu	63	72	He	0.000	N/A	223.34	0.0015	
Zn	66	72	He	0.000	N/A	130.00	0.0075	
As	75	72	He	0.000	49.16	10.67	0.00075	
Se	78	72	He	0.000	96.36	6.67	0.00075	
Sr	88	72	He	0.000	46.14	280.01	0.0075	
Mo	95	72	He	0.000	48.43	60.00	0.0015	
Ag	107	103	He	0.000	14.80	403.35	0.000375	
Cd	111	103	He	0.000	22.63	26.00	0.000375	
Sn	118	103	He	0.000	31.18	106.67	0.00075	
Sb	121	103	He	0.000	39.07	266.67	0.00075	
Ba	137	103	He	0.000	N/A	16.67	0.0015	
Tl	205	175	He	0.000	13.32	370.01	0.00075	
Pb	208	175	He	0.000	N/A	843.36	0.00075	
U	238	175	He	0.000	N/A	570.03	0.0075	

QC ISTD Table

Continuing Calibration Blank (CCB) Report

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc (No He)	45	No Gas	1764730.13	1.00	1795046.74333333	98.31	60	120	
Ge (No He)	72	No Gas	486728.18	0.21	501274.81	97.1	60	120	
Sc	45	He	18827.72	0.55	19045.7933333333	98.85	60	120	
Ge	72	He	21130.05	2.09	21484.9866666667	98.35	60	120	
Rh	103	He	860477.59	0.87	884571.603333333	97.28	60	120	
Lu	175	He	430903.54	1.60	455248.86	94.65	60	120	

Sample Report

Sample Name	BLANK WG757513
File Name	147SMPL.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\120114ICPMS8A.b
Acq Time	2014-12-01 21:25:25
Sample Type	Sample
Total Dilution	1.1111
Comment	---
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fial	Pass
ISTD QC Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD	Tune Mode	Conc.	Conc. RSD	CPS	LDR	QC Flag
B	10	45	No Gas	0.002	3.66	531.34	5	
B	11	45	No Gas	0.002	1.95	2431.54	5	
Se	82	72	No Gas	0.000	2.14	-3.41	5	
Be	9	45	He	0.000	287.01	1.00	5	
Na	23	45	He	0.004	104.80	10787.42	90	
Mg	24	45	He	-0.002	N/A	230.00	90	
Al	27	45	He	0.003	29.75	60.00	90	
K	39	45	He	0.016	69.70	6048.02	90	
Ca	43	45	He	0.036	51.64	11.67	90	
Ti	47	45	He	0.000	86.62	6.67	5	
V	51	45	He	0.000	N/A	6.67	5	
Cr	52	45	He	0.000	22.15	1403.43	5	
Mn	55	72	He	0.000	23.18	123.33	5	
Fe	56	72	He	0.001	19.28	4073.98	90	
Co	59	72	He	0.000	N/A	33.33	5	
Ni	60	72	He	0.000	11.55	170.00	5	
Cu	63	72	He	0.000	15.65	570.02	5	
Zn	66	72	He	0.000	N/A	146.67	5	
As	75	72	He	0.000	937.39	2.22	5	
Se	78	72	He	0.002	74.22	11.67	5	
Sr	88	72	He	0.000	N/A	160.00	5	
Mo	95	72	He	0.000	100.01	10.00	5	
Ag	107	103	He	0.000	74.77	43.33	1	
Cd	111	103	He	0.000	163.67	4.67	5	
Sn	118	103	He	0.000	138.98	56.67	2	
Sb	121	103	He	0.000	111.86	40.00	1	
Ba	137	103	He	0.000	N/A	26.67	2	
Tl	205	175	He	0.000	N/A	53.33	5	
Pb	208	175	He	0.000	N/A	550.01	5	
U	238	175	He	0.000	N/A	10.00	5	

QC ISTD Table

Sample Report

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc (No He)	45	No Gas	1648529.71	1.47	1795046.74333333	91.84	60	120	
Ge (No He)	72	No Gas	447967.92	0.93	501274.81	89.37	60	120	
Sc	45	He	17969.98	2.86	19045.7933333333	94.35	60	120	
Ge	72	He	20014.01	0.19	21484.9866666667	93.15	60	120	
Rh	103	He	823160.09	1.19	884571.603333333	93.06	60	120	
Lu	175	He	420964.50	1.13	455248.86	92.47	60	120	

Sample Report

Sample Name	LCS WG757513
File Name	148SMPL.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\120114ICPMS8A.b
Acq Time	2014-12-01 21:26:58
Sample Type	Sample
Total Dilution	1.1111
Comment	---
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fial	Pass
ISTD QC Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD	Tune Mode	Conc.	Conc. RSD	CPS	LDR	QC Flag
B	10	45	No Gas	0.055	3.07	9527.71	5	
B	11	45	No Gas	0.055	1.23	45182.55	5	
Se	82	72	No Gas	0.047	2.35	9536.68	5	
Be	9	45	He	0.050	2.17	623.01	5	
Na	23	45	He	0.527	1.25	84178.13	90	
Mg	24	45	He	0.524	1.59	33768.89	90	
Al	27	45	He	0.065	12.31	950.05	90	
K	39	45	He	0.531	0.50	25702.89	90	
Ca	43	45	He	0.913	6.34	129.67	90	
Ti	47	45	He	0.051	11.66	1070.06	5	
V	51	45	He	0.054	1.89	63863.38	5	
Cr	52	45	He	0.053	0.93	84116.18	5	
Mn	55	72	He	0.053	1.51	27002.14	5	
Fe	56	72	He	0.053	2.86	63934.12	90	
Co	59	72	He	0.054	1.23	186533.91	5	
Ni	60	72	He	0.052	1.44	53679.71	5	
Cu	63	72	He	0.054	0.97	161953.33	5	
Zn	66	72	He	0.050	5.02	14060.38	5	
As	75	72	He	0.050	0.31	8777.36	5	
Se	78	72	He	0.052	2.81	277.00	5	
Sr	88	72	He	0.054	1.10	29013.34	5	
Mo	95	72	He	0.052	0.82	63422.49	5	
Ag	107	103	He	0.049	0.34	244779.84	1	
Cd	111	103	He	0.050	1.31	23230.57	5	
Sn	118	103	He	0.053	0.87	44050.21	2	
Sb	121	103	He	0.054	3.05	56150.35	1	
Ba	137	103	He	0.053	2.19	18015.41	2	
Tl	205	175	He	0.050	0.41	534497.63	5	
Pb	208	175	He	0.052	1.17	692100.87	5	
U	238	175	He	0.000	N/A	6.67	5	

QC ISTD Table

Sample Report

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc (No He)	45	No Gas	1704091.80	0.77	1795046.74333333	94.93	60	120	
Ge (No He)	72	No Gas	461983.60	0.58	501274.81	92.16	60	120	
Sc	45	He	18481.75	0.19	19045.7933333333	97.04	60	120	
Ge	72	He	20304.39	0.85	21484.9866666667	94.51	60	120	
Rh	103	He	830381.05	0.84	884571.603333333	93.87	60	120	
Lu	175	He	433597.08	0.47	455248.86	95.24	60	120	

Sample Report

Sample Name	LCSD WG757513
File Name	149SMPL.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\120114ICPMS8A.b
Acq Time	2014-12-01 21:28:32
Sample Type	Sample
Total Dilution	1.1111
Comment	---
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fial	Pass
ISTD QC Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD	Tune Mode	Conc.	Conc. RSD	CPS	LDR	QC Flag
B	10	45	No Gas	0.057	0.66	9731.18	5	
B	11	45	No Gas	0.056	0.80	45867.31	5	
Se	82	72	No Gas	0.046	0.98	9459.29	5	
Be	9	45	He	0.049	8.32	621.01	5	
Na	23	45	He	0.533	2.42	86038.97	90	
Mg	24	45	He	0.507	4.49	33080.53	90	
Al	27	45	He	0.056	4.94	843.37	90	
K	39	45	He	0.520	0.75	25615.99	90	
Ca	43	45	He	0.962	4.38	138.00	90	
Ti	47	45	He	0.053	7.45	1123.40	5	
V	51	45	He	0.054	1.96	64817.87	5	
Cr	52	45	He	0.052	1.87	83881.19	5	
Mn	55	72	He	0.053	3.82	27459.56	5	
Fe	56	72	He	0.052	3.48	64055.13	90	
Co	59	72	He	0.053	2.28	187110.33	5	
Ni	60	72	He	0.051	1.97	53371.99	5	
Cu	63	72	He	0.053	2.40	161522.75	5	
Zn	66	72	He	0.049	4.92	14344.12	5	
As	75	72	He	0.049	2.22	8873.42	5	
Se	78	72	He	0.050	5.82	273.00	5	
Sr	88	72	He	0.051	4.21	28245.14	5	
Mo	95	72	He	0.051	1.36	63800.49	5	
Ag	107	103	He	0.049	1.90	244158.64	1	
Cd	111	103	He	0.051	1.36	23511.72	5	
Sn	118	103	He	0.052	1.49	43885.95	2	
Sb	121	103	He	0.053	1.48	56043.17	1	
Ba	137	103	He	0.053	1.00	18339.21	2	
Tl	205	175	He	0.049	0.79	536015.57	5	
Pb	208	175	He	0.052	1.50	693807.50	5	
U	238	175	He	0.000	N/A	6.67	5	

QC ISTD Table

Sample Report

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc (No He)	45	No Gas	1695467.06	0.70	1795046.74333333	94.45	60	120	
Ge (No He)	72	No Gas	466597.44	1.37	501274.81	93.08	60	120	
Sc	45	He	18722.05	2.56	19045.7933333333	98.3	60	120	
Ge	72	He	20850.72	2.21	21484.9866666667	97.05	60	120	
Rh	103	He	839132.95	0.99	884571.603333333	94.86	60	120	
Lu	175	He	438209.64	1.55	455248.86	96.26	60	120	

Sample Report

Sample Name	L735181-05 WG757513
File Name	150SMPL.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\120114ICPMS8A.b
Acq Time	2014-12-01 21:30:07
Sample Type	Sample
Total Dilution	1.1111
Comment	---
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fial	Fail
ISTD QC Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD	Tune Mode	Conc.	Conc. RSD	CPS	LDR	QC Flag
B	10	45	No Gas	0.386	2.12	60808.06	5	
B	11	45	No Gas	0.389	1.01	291763.05	5	
Se	82	72	No Gas	0.006	4.55	1045.44	5	
Be	9	45	He	0.000	146.09	2.33	5	
Na	23	45	He	3330.423	0.74	432632220.22	90	>LDR
Mg	24	45	He	711.477	1.26	42162331.04	90	>LDR
Al	27	45	He	2.301	6.76	30783.22	90	
K	39	45	He	21.821	0.97	771772.80	90	
Ca	43	45	He	923.757	0.96	115310.60	90	>LDR
Ti	47	45	He	0.101	44.55	1964.93	5	
V	51	45	He	0.027	1.17	29864.31	5	
Cr	52	45	He	0.003	6.78	5371.10	5	
Mn	55	72	He	0.745	1.88	326681.78	5	
Fe	56	72	He	2.018	2.54	1990758.98	90	
Co	59	72	He	0.004	4.55	11464.71	5	
Ni	60	72	He	0.007	3.34	5991.35	5	
Cu	63	72	He	0.002	3.62	5607.88	5	
Zn	66	72	He	0.009	12.29	2336.91	5	
As	75	72	He	0.018	0.98	2679.37	5	
Se	78	72	He	0.004	17.09	19.33	5	
Sr	88	72	He	18.851	1.40	8648186.54	5	>LDR
Mo	95	72	He	0.019	1.59	20238.03	5	
Ag	107	103	He	0.001	9.22	2453.60	1	
Cd	111	103	He	0.000	5.64	61.33	5	
Sn	118	103	He	0.001	15.91	393.35	2	
Sb	121	103	He	0.001	5.40	793.37	1	
Ba	137	103	He	0.091	1.43	23684.07	2	
Tl	205	175	He	0.000	11.56	2103.54	5	
Pb	208	175	He	0.001	2.73	12242.44	5	
U	238	175	He	0.024	1.91	268038.75	5	

QC ISTD Table

Sample Report

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc (No He)	45	No Gas	1574457.58	0.61	1795046.74333333	87.71	60	120	
Ge (No He)	72	No Gas	401026.01	0.68	501274.81	80	60	120	
Sc	45	He	17191.26	0.80	19045.7933333333	90.26	60	120	
Ge	72	He	17544.13	1.27	21484.9866666667	81.66	60	120	
Rh	103	He	639988.57	1.26	884571.603333333	72.35	60	120	
Lu	175	He	341027.08	0.90	455248.86	74.91	60	120	

Sample Report

Sample Name	SD L735181-05 WG757513
File Name	151SMPL.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\120114ICPMS8A.b
Acq Time	2014-12-01 21:31:42
Sample Type	Sample
Total Dilution	5.5556
Comment	---
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fial	Fail
ISTD QC Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD	Tune Mode	Conc.	Conc. RSD	CPS	LDR	QC Flag
B	10	45	No Gas	0.436	2.34	15369.22	5	
B	11	45	No Gas	0.440	1.95	73881.17	5	
Se	82	72	No Gas	0.009	3.09	352.74	5	
Be	9	45	He	0.000	332.08	1.00	5	
Na	23	45	He	3560.167	0.19	105156711.77	90	>LDR
Mg	24	45	He	758.446	0.96	10219381.72	90	>LDR
Al	27	45	He	2.397	5.46	7312.01	90	
K	39	45	He	23.295	1.91	191977.87	90	
Ca	43	45	He	974.848	1.75	27670.37	90	>LDR
Ti	47	45	He	0.068	6.12	300.01	5	
V	51	45	He	0.027	8.89	6928.47	5	
Cr	52	45	He	0.004	8.53	2066.86	5	
Mn	55	72	He	0.755	1.04	78659.89	5	
Fe	56	72	He	2.032	1.29	478419.88	90	
Co	59	72	He	0.004	5.16	2993.70	5	
Ni	60	72	He	0.028	1.87	5904.65	5	
Cu	63	72	He	0.004	4.17	2773.65	5	
Zn	66	72	He	0.020	18.23	1356.75	5	
As	75	72	He	0.018	0.31	640.01	5	
Se	78	72	He	0.005	33.94	9.33	5	
Sr	88	72	He	19.288	2.55	2100938.82	5	
Mo	95	72	He	0.019	0.82	4837.59	5	
Ag	107	103	He	0.000	4.15	380.01	1	
Cd	111	103	He	0.000	41.15	17.33	5	
Sn	118	103	He	0.001	62.01	196.67	2	
Sb	121	103	He	0.001	6.52	196.67	1	
Ba	137	103	He	0.098	6.18	6088.13	2	
Tl	205	175	He	0.000	28.71	576.69	5	
Pb	208	175	He	0.002	3.29	4963.80	5	
U	238	175	He	0.025	2.16	64079.00	5	

QC ISTD Table

Sample Report

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc (No He)	45	No Gas	1751319.71	0.79	1795046.74333333	97.56	60	120	
Ge (No He)	72	No Gas	460607.01	0.81	501274.81	91.89	60	120	
Sc	45	He	19541.98	0.55	19045.7933333333	102.61	60	120	
Ge	72	He	20828.48	1.54	21484.9866666667	96.94	60	120	
Rh	103	He	757734.54	0.54	884571.603333333	85.66	60	120	
Lu	175	He	377378.17	1.42	455248.86	82.89	60	120	

Sample Report

Sample Name	MS L735181-05 WG757513
File Name	152SMPL.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\120114ICPMS8A.b
Acq Time	2014-12-01 21:33:17
Sample Type	Sample
Total Dilution	1.1111
Comment	---
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fial	Fail
ISTD QC Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD	Tune Mode	Conc.	Conc. RSD	CPS	LDR	QC Flag
B	10	45	No Gas	0.411	2.20	60482.06	5	
B	11	45	No Gas	0.418	1.58	292441.06	5	
Se	82	72	No Gas	0.051	1.65	8319.02	5	
Be	9	45	He	0.042	5.94	481.34	5	
Na	23	45	He	3341.400	1.14	433657913.54	90	>LDR
Mg	24	45	He	718.101	0.86	42522317.70	90	>LDR
Al	27	45	He	1.978	0.43	26440.66	90	
K	39	45	He	22.281	0.28	787226.37	90	
Ca	43	45	He	918.392	0.70	114533.17	90	>LDR
Ti	47	45	He	0.090	7.48	1736.80	5	
V	51	45	He	0.078	0.75	86372.38	5	
Cr	52	45	He	0.051	0.76	76159.52	5	
Mn	55	72	He	0.788	1.32	348216.08	5	
Fe	56	72	He	2.005	0.72	1992147.52	90	
Co	59	72	He	0.054	0.92	161988.96	5	
Ni	60	72	He	0.054	1.64	48481.46	5	
Cu	63	72	He	0.049	1.36	128266.12	5	
Zn	66	72	He	0.061	2.41	14887.89	5	
As	75	72	He	0.070	2.08	10687.54	5	
Se	78	72	He	0.055	7.85	256.67	5	
Sr	88	72	He	18.213	0.99	8413233.42	5	>LDR
Mo	95	72	He	0.069	1.78	73866.24	5	
Ag	107	103	He	0.048	1.08	177787.62	1	
Cd	111	103	He	0.050	0.97	17400.83	5	
Sn	118	103	He	0.056	1.64	34940.91	2	
Sb	121	103	He	0.055	2.43	43709.23	1	
Ba	137	103	He	0.141	1.54	35964.05	2	
Tl	205	175	He	0.043	2.85	349385.19	5	
Pb	208	175	He	0.046	0.97	458118.43	5	
U	238	175	He	0.023	0.58	247919.91	5	

QC ISTD Table

Sample Report

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc (No He)	45	No Gas	1469945.65	0.07	1795046.74333333	81.89	60	120	
Ge (No He)	72	No Gas	370640.92	0.16	501274.81	73.94	60	120	
Sc	45	He	17176.80	3.13	19045.7933333333	90.19	60	120	
Ge	72	He	17662.03	1.51	21484.9866666667	82.21	60	120	
Rh	103	He	626580.00	2.23	884571.603333333	70.83	60	120	
Lu	175	He	327473.39	2.52	455248.86	71.93	60	120	

Sample Report

Sample Name	MSD L735181-05 WG757513
File Name	153SMPL.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\120114ICPMS8A.b
Acq Time	2014-12-01 21:34:51
Sample Type	Sample
Total Dilution	1.1111
Comment	---
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fial	Fail
ISTD QC Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD	Tune Mode	Conc.	Conc. RSD	CPS	LDR	QC Flag
B	10	45	No Gas	0.418	0.79	63784.35	5	
B	11	45	No Gas	0.421	0.24	305424.96	5	
Se	82	72	No Gas	0.052	2.99	8710.93	5	
Be	9	45	He	0.040	1.79	461.34	5	
Na	23	45	He	3341.584	1.36	434029820.20	90	>LDR
Mg	24	45	He	715.653	0.51	42405257.70	90	>LDR
Al	27	45	He	1.893	2.97	25325.34	90	
K	39	45	He	22.166	0.98	783750.35	90	
Ca	43	45	He	910.813	0.99	113679.68	90	>LDR
Ti	47	45	He	0.098	5.79	1890.16	5	
V	51	45	He	0.078	2.38	85999.97	5	
Cr	52	45	He	0.051	1.24	76065.29	5	
Mn	55	72	He	0.795	0.63	346572.14	5	
Fe	56	72	He	1.958	0.51	1921190.39	90	
Co	59	72	He	0.055	1.07	164086.11	5	
Ni	60	72	He	0.057	0.40	50304.35	5	
Cu	63	72	He	0.050	0.39	129735.96	5	
Zn	66	72	He	0.062	4.88	14988.00	5	
As	75	72	He	0.070	1.46	10529.21	5	
Se	78	72	He	0.055	2.46	252.33	5	
Sr	88	72	He	18.599	0.85	8484665.50	5	>LDR
Mo	95	72	He	0.069	1.90	72837.58	5	
Ag	107	103	He	0.048	0.56	178052.98	1	
Cd	111	103	He	0.051	1.09	17526.29	5	
Sn	118	103	He	0.055	1.71	34325.94	2	
Sb	121	103	He	0.056	2.24	43886.39	1	
Ba	137	103	He	0.143	0.96	36475.44	2	
Tl	205	175	He	0.044	0.72	355792.44	5	
Pb	208	175	He	0.047	1.84	468152.79	5	
U	238	175	He	0.023	0.66	250516.16	5	

QC ISTD Table

Sample Report

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc (No He)	45	No Gas	1524834.04	1.23	1795046.74333333	84.95	60	120	
Ge (No He)	72	No Gas	381569.62	0.77	501274.81	76.12	60	120	
Sc	45	He	17189.04	0.70	19045.7933333333	90.25	60	120	
Ge	72	He	17442.87	0.37	21484.9866666667	81.19	60	120	
Rh	103	He	623437.87	1.25	884571.603333333	70.48	60	120	
Lu	175	He	327825.07	1.27	455248.86	72.01	60	120	

Sample Report

Sample Name	L734231-16 WG757513
File Name	154SMPL.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\120114ICPMS8A.b
Acq Time	2014-12-01 21:36:28
Sample Type	Sample
Total Dilution	1.1111
Comment	---
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fial	Fail
ISTD QC Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD	Tune Mode	Conc.	Conc. RSD	CPS	LDR	QC Flag
B	10	45	No Gas	1.264	1.40	210954.96	5	
B	11	45	No Gas	1.298	2.60	1031051.63	5	
Se	82	72	No Gas	0.006	20.46	1015.51	5	
Be	9	45	He	0.001	24.35	14.33	5	
Na	23	45	He	1544.622	0.79	203884756.96	90	>LDR
Mg	24	45	He	762.093	1.22	45887540.98	90	>LDR
Al	27	45	He	19.780	0.95	268750.55	90	
K	39	45	He	97.929	1.17	3500428.60	90	
Ca	43	45	He	2494.187	0.89	316334.08	90	>LDR
Ti	47	45	He	0.556	3.25	10930.96	5	
V	51	45	He	0.056	1.77	63049.99	5	
Cr	52	45	He	0.022	3.82	34056.81	5	
Mn	55	72	He	1.046	0.26	451183.91	5	
Fe	56	72	He	24.198	1.38	23452635.48	90	
Co	59	72	He	0.013	1.95	37408.62	5	
Ni	60	72	He	0.019	3.39	16586.46	5	
Cu	63	72	He	0.024	0.92	60654.23	5	
Zn	66	72	He	0.081	0.59	19389.96	5	
As	75	72	He	0.012	2.44	1734.33	5	
Se	78	72	He	0.016	10.93	76.33	5	
Sr	88	72	He	52.317	0.28	23604847.15	5	>LDR
Mo	95	72	He	0.309	1.07	322774.30	5	
Ag	107	103	He	0.000	10.77	436.68	1	
Cd	111	103	He	0.000	1.53	154.00	5	
Sn	118	103	He	0.002	8.94	1440.11	2	
Sb	121	103	He	0.002	15.92	1213.41	1	
Ba	137	103	He	1.117	1.76	273867.37	2	
Tl	205	175	He	0.001	4.32	4197.41	5	
Pb	208	175	He	0.021	0.86	203655.31	5	
U	238	175	He	0.055	1.49	581198.03	5	

QC ISTD Table

Sample Report

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc (No He)	45	No Gas	1670269.66	1.58	1795046.74333333	93.05	60	120	
Ge (No He)	72	No Gas	383886.23	0.77	501274.81	76.58	60	120	
Sc	45	He	17468.29	1.22	19045.7933333333	91.72	60	120	
Ge	72	He	17252.63	0.79	21484.9866666667	80.3	60	120	
Rh	103	He	601182.72	0.31	884571.603333333	67.96	60	120	
Lu	175	He	319037.16	1.36	455248.86	70.08	60	120	

Sample Report

Sample Name	L734231-19 WG757513
File Name	155SMPL.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\120114ICPMS8A.b
Acq Time	2014-12-01 21:38:01
Sample Type	Sample
Total Dilution	1.1111
Comment	---
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fial	Fail
ISTD QC Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD	Tune Mode	Conc.	Conc. RSD	CPS	LDR	QC Flag
B	10	45	No Gas	1.723	2.11	259481.31	5	
B	11	45	No Gas	1.714	1.62	1228506.75	5	
Se	82	72	No Gas	0.001	27.67	207.50	5	
Be	9	45	He	0.000	19.80	5.67	5	
Na	23	45	He	3661.834	1.74	440510673.44	90	>LDR
Mg	24	45	He	948.692	1.10	52067419.22	90	>LDR
Al	27	45	He	6.494	1.86	80434.62	90	
K	39	45	He	207.909	0.88	6768851.15	90	>LDR
Ca	43	45	He	1844.810	1.38	213262.32	90	>LDR
Ti	47	45	He	0.180	6.85	3227.08	5	
V	51	45	He	0.025	2.05	26143.91	5	
Cr	52	45	He	0.008	2.86	11544.79	5	
Mn	55	72	He	0.968	0.46	390635.21	5	
Fe	56	72	He	7.884	0.63	7145899.48	90	
Co	59	72	He	0.005	2.07	14197.20	5	
Ni	60	72	He	0.010	1.87	7902.28	5	
Cu	63	72	He	0.009	3.21	21215.81	5	
Zn	66	72	He	0.033	5.49	7385.35	5	
As	75	72	He	0.005	3.33	757.80	5	
Se	78	72	He	0.005	1.39	23.33	5	
Sr	88	72	He	35.346	0.78	14909155.20	5	>LDR
Mo	95	72	He	0.569	0.83	555927.24	5	
Ag	107	103	He	0.000	29.49	413.35	1	
Cd	111	103	He	0.000	23.07	69.33	5	
Sn	118	103	He	0.001	12.34	736.70	2	
Sb	121	103	He	0.001	6.67	1043.39	1	
Ba	137	103	He	0.341	2.61	80639.29	2	
Tl	205	175	He	0.000	7.58	823.37	5	
Pb	208	175	He	0.006	0.84	53290.03	5	
U	238	175	He	0.052	0.44	533304.80	5	

QC ISTD Table

Sample Report

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc (No He)	45	No Gas	1507860.76	2.08	1795046.74333333	84	60	120	
Ge (No He)	72	No Gas	369004.76	0.53	501274.81	73.61	60	120	
Sc	45	He	15924.27	2.90	19045.7933333333	83.61	60	120	
Ge	72	He	16129.12	1.27	21484.9866666667	75.07	60	120	
Rh	103	He	580517.92	0.52	884571.603333333	65.63	60	120	
Lu	175	He	310576.56	1.10	455248.86	68.22	60	120	

Sample Report

Sample Name	L734231-20 WG757513
File Name	156SMPL.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\120114ICPMS8A.b
Acq Time	2014-12-01 21:39:35
Sample Type	Sample
Total Dilution	1.1111
Comment	---
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fial	Fail
ISTD QC Pass/Fail	Fail

QC Analyte Table

Name	Mass	ISTD	Tune Mode	Conc.	Conc. RSD	CPS	LDR	QC Flag
B	10	45	No Gas	1.886	2.21	277298.93	5	
B	11	45	No Gas	1.905	1.50	1332768.71	5	
Se	82	72	No Gas	0.003	41.94	462.04	5	
Be	9	45	He	0.002	31.85	21.33	5	
Na	23	45	He	4043.749	1.71	487003472.74	90	>LDR
Mg	24	45	He	1305.348	1.29	71720425.60	90	>LDR
Al	27	45	He	22.034	2.17	273145.42	90	
K	39	45	He	215.124	1.63	7010427.40	90	>LDR
Ca	43	45	He	3049.593	1.46	352920.51	90	>LDR
Ti	47	45	He	0.574	2.92	10310.49	5	
V	51	45	He	0.113	1.87	116369.76	5	
Cr	52	45	He	0.031	1.81	42669.45	5	
Mn	55	72	He	2.044	1.73	784800.69	5	
Fe	56	72	He	31.077	1.72	26800155.43	90	
Co	59	72	He	0.020	2.78	51251.03	5	
Ni	60	72	He	0.025	2.40	19102.95	5	
Cu	63	72	He	0.018	2.44	41510.04	5	
Zn	66	72	He	0.106	2.52	22461.05	5	
As	75	72	He	0.014	1.70	1855.24	5	
Se	78	72	He	0.015	36.62	63.67	5	
Sr	88	72	He	60.093	1.92	24124992.14	5	>LDR
Mo	95	72	He	0.336	1.62	312041.69	5	
Ag	107	103	He	0.000	28.21	236.67	1	
Cd	111	103	He	0.001	7.29	177.33	5	
Sn	118	103	He	0.001	20.63	803.37	2	
Sb	121	103	He	0.001	11.92	680.03	1	
Ba	137	103	He	0.762	0.09	164125.11	2	
Tl	205	175	He	0.000	2.61	3373.83	5	
Pb	208	175	He	0.023	2.42	200543.02	5	
U	238	175	He	0.092	2.10	851636.40	5	

QC ISTD Table

Sample Report

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc (No He)	45	No Gas	1471869.82	2.68	1795046.74333333	82	60	120	
Ge (No He)	72	No Gas	344135.28	1.47	501274.81	68.65	60	120	
Sc	45	He	15939.83	1.41	19045.7933333333	83.69	60	120	
Ge	72	He	15351.59	0.81	21484.9866666667	71.45	60	120	
Rh	103	He	528507.36	0.60	884571.603333333	59.75	60	120	ISTD Failed
Lu	175	He	279120.73	1.19	455248.86	61.31	60	120	

Sample Report

Sample Name	L734231-24 WG757513
File Name	157SMPL.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\120114ICPMS8A.b
Acq Time	2014-12-01 21:41:08
Sample Type	Sample
Total Dilution	1.1111
Comment	---
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fial	Fail
ISTD QC Pass/Fail	Fail

QC Analyte Table

Name	Mass	ISTD	Tune Mode	Conc.	Conc. RSD	CPS	LDR	QC Flag
B	10	45	No Gas	0.688	2.11	105445.49	5	
B	11	45	No Gas	0.690	1.13	503514.94	5	
Se	82	72	No Gas	0.002	69.55	352.05	5	
Be	9	45	He	0.000	28.32	4.00	5	
Na	23	45	He	748.014	0.52	87238892.03	90	>LDR
Mg	24	45	He	279.612	0.65	14875623.95	90	>LDR
Al	27	45	He	6.127	1.48	73569.93	90	
K	39	45	He	76.166	2.20	2406270.54	90	
Ca	43	45	He	1458.305	0.75	163408.17	90	>LDR
Ti	47	45	He	0.174	4.47	3023.71	5	
V	51	45	He	0.027	0.63	26491.09	5	
Cr	52	45	He	0.007	2.67	10540.63	5	
Mn	55	72	He	0.371	2.36	146141.01	5	
Fe	56	72	He	7.828	2.26	6934294.48	90	
Co	59	72	He	0.006	3.17	15802.28	5	
Ni	60	72	He	0.007	4.67	5744.58	5	
Cu	63	72	He	0.010	1.40	22875.08	5	
Zn	66	72	He	0.039	3.50	8582.69	5	
As	75	72	He	0.007	2.59	906.70	5	
Se	78	72	He	0.007	33.14	30.67	5	
Sr	88	72	He	25.006	1.10	10310508.18	5	>LDR
Mo	95	72	He	0.320	1.64	305415.27	5	
Ag	107	103	He	0.000	9.08	120.00	1	
Cd	111	103	He	0.000	26.65	66.00	5	
Sn	118	103	He	0.001	32.82	560.02	2	
Sb	121	103	He	0.001	13.62	650.03	1	
Ba	137	103	He	0.362	1.35	84553.19	2	
Tl	205	175	He	0.000	3.84	1460.11	5	
Pb	208	175	He	0.007	1.18	60418.90	5	
U	238	175	He	0.023	1.14	198300.19	5	

QC ISTD Table

Sample Report

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc (No He)	45	No Gas	1533897.16	1.57	1795046.74333333	85.45	60	120	
Ge (No He)	72	No Gas	363617.91	0.42	501274.81	72.54	60	120	
Sc	45	He	15432.63	0.96	19045.7933333333	81.03	60	120	
Ge	72	He	15766.49	1.26	21484.9866666667	73.38	60	120	
Rh	103	He	571967.43	0.26	884571.603333333	64.66	60	120	
Lu	175	He	265485.71	1.38	455248.86	58.32	60	120	ISTD Failed

Sample Report

Sample Name	L734810-03 WG757513
File Name	158SMPL.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\120114ICPMS8A.b
Acq Time	2014-12-01 21:42:41
Sample Type	Sample
Total Dilution	1.1111
Comment	---
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fial	Fail
ISTD QC Pass/Fail	Fail

QC Analyte Table

Name	Mass	ISTD	Tune Mode	Conc.	Conc. RSD	CPS	LDR	QC Flag
B	10	45	No Gas	0.168	1.28	24262.94	5	
B	11	45	No Gas	0.169	1.48	116632.67	5	
Se	82	72	No Gas	0.027	6.46	4006.96	5	
Be	9	45	He	0.001	42.94	9.00	5	
Na	23	45	He	1391.378	1.48	155298614.35	90	>LDR
Mg	24	45	He	367.159	2.13	18693753.47	90	>LDR
Al	27	45	He	11.113	1.88	127678.51	90	
K	39	45	He	11.768	1.83	359645.52	90	
Ca	43	45	He	1163.563	1.36	124790.74	90	>LDR
Ti	47	45	He	0.152	2.67	2523.60	5	
V	51	45	He	0.019	1.54	18094.89	5	
Cr	52	45	He	0.016	7.28	20962.07	5	
Mn	55	72	He	0.629	0.58	239255.92	5	
Fe	56	72	He	11.787	0.79	10076512.56	90	
Co	59	72	He	0.008	4.30	20171.09	5	
Ni	60	72	He	0.017	3.27	12885.94	5	
Cu	63	72	He	0.011	1.94	24434.40	5	
Zn	66	72	He	0.073	1.76	15438.59	5	
As	75	72	He	0.004	5.76	582.24	5	
Se	78	72	He	0.018	13.07	74.00	5	
Sr	88	72	He	19.346	1.56	7697882.80	5	>LDR
Mo	95	72	He	0.021	2.05	19563.84	5	
Ag	107	103	He	0.000	12.44	663.36	1	
Cd	111	103	He	0.000	14.29	84.00	5	
Sn	118	103	He	0.001	8.82	576.69	2	
Sb	121	103	He	0.000	20.73	270.01	1	
Ba	137	103	He	0.244	1.21	55826.96	2	
Tl	205	175	He	0.000	10.07	1676.81	5	
Pb	208	175	He	0.008	0.88	65000.24	5	
U	238	175	He	0.006	3.20	48929.70	5	

QC ISTD Table

Sample Report

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc (No He)	45	No Gas	1441188.73	1.48	1795046.74333333	80.29	60	120	
Ge (No He)	72	No Gas	343154.98	1.21	501274.81	68.46	60	120	
Sc	45	He	14771.97	1.43	19045.7933333333	77.56	60	120	
Ge	72	He	15215.89	1.07	21484.9866666667	70.82	60	120	
Rh	103	He	560068.96	0.32	884571.603333333	63.32	60	120	
Lu	175	He	264036.89	0.72	455248.86	58	60	120	ISTD Failed

Sample Report

Sample Name	L734810-05 WG757513
File Name	159SMPL.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\120114ICPMS8A.b
Acq Time	2014-12-01 21:44:18
Sample Type	Sample
Total Dilution	1.1111
Comment	---
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fial	Fail
ISTD QC Pass/Fail	Fail

QC Analyte Table

Name	Mass	ISTD	Tune Mode	Conc.	Conc. RSD	CPS	LDR	QC Flag
B	10	45	No Gas	0.165	2.27	24879.96	5	
B	11	45	No Gas	0.167	2.16	119644.18	5	
Se	82	72	No Gas	0.014	9.80	2076.82	5	
Be	9	45	He	0.003	62.58	20.00	5	
Na	23	45	He	2199.575	48.28	185211443.91	90	>LDR
Mg	24	45	He	616.535	48.75	23653174.65	90	>LDR
Al	27	45	He	24.969	47.41	216944.99	90	
K	39	45	He	14.976	49.10	344054.60	90	
Ca	43	45	He	1672.470	49.18	134986.37	90	>LDR
Ti	47	45	He	0.333	49.13	4164.00	5	
V	51	45	He	0.093	48.69	66750.02	5	
Cr	52	45	He	0.053	48.47	51153.78	5	
Mn	55	72	He	0.934	49.24	263125.21	5	
Fe	56	72	He	32.605	50.10	20572468.03	90	
Co	59	72	He	0.017	51.16	33071.55	5	
Ni	60	72	He	0.036	48.07	20625.01	5	
Cu	63	72	He	0.027	50.18	44027.51	5	
Zn	66	72	He	0.129	51.20	19887.34	5	
As	75	72	He	0.010	51.86	983.15	5	
Se	78	72	He	0.035	54.87	102.33	5	
Sr	88	72	He	25.841	49.91	7594545.51	5	>LDR
Mo	95	72	He	0.020	50.26	13733.58	5	
Ag	107	103	He	0.001	37.61	1323.42	1	
Cd	111	103	He	0.001	57.24	154.67	5	
Sn	118	103	He	0.002	43.78	806.71	2	
Sb	121	103	He	0.001	59.56	590.02	1	
Ba	137	103	He	0.472	50.05	75835.57	2	
Tl	205	175	He	0.001	53.27	3110.43	5	
Pb	208	175	He	0.028	51.53	159783.12	5	
U	238	175	He	0.010	52.28	59226.05	5	

QC ISTD Table

Sample Report

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc (No He)	45	No Gas	1498955.34	1.54	1795046.74333333	83.51	60	120	
Ge (No He)	72	No Gas	338546.99	0.74	501274.81	67.54	60	120	
Sc	45	He	12664.07	37.35	19045.7933333333	66.49	60	120	
Ge	72	He	12873.37	38.19	21484.9866666667	59.92	60	120	ISTD Failed
Rh	103	He	451303.85	38.06	884571.603333333	51.02	60	120	ISTD Failed
Lu	175	He	215580.63	38.98	455248.86	47.35	60	120	ISTD Failed

Sample Report

Sample Name	L734810-07 WG757513
File Name	160SMPL.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\120114ICPMS8A.b
Acq Time	2014-12-01 21:45:51
Sample Type	Sample
Total Dilution	1.1111
Comment	---
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fial	Fail
ISTD QC Pass/Fail	Fail

QC Analyte Table

Name	Mass	ISTD	Tune Mode	Conc.	Conc. RSD	CPS	LDR	QC Flag
B	10	45	No Gas	0.312	1.62	49013.92	5	
B	11	45	No Gas	0.317	0.40	236943.42	5	
Se	82	72	No Gas	0.011	16.47	1616.39	5	
Be	9	45	He	0.002	17.06	26.00	5	
Na	23	45	He	1449.682	0.84	174478237.40	90	>LDR
Mg	24	45	He	441.457	1.27	24235498.81	90	>LDR
Al	27	45	He	29.074	0.98	360150.78	90	
K	39	45	He	15.164	0.77	498317.62	90	
Ca	43	45	He	1188.284	0.87	137414.97	90	>LDR
Ti	47	45	He	0.449	3.12	8062.36	5	
V	51	45	He	0.090	1.63	92402.40	5	
Cr	52	45	He	0.059	0.40	81246.35	5	
Mn	55	72	He	1.023	1.94	407841.01	5	
Fe	56	72	He	41.926	2.01	37556843.61	90	
Co	59	72	He	0.020	0.77	53800.15	5	
Ni	60	72	He	0.041	1.45	32757.38	5	
Cu	63	72	He	0.028	0.55	66516.58	5	
Zn	66	72	He	0.136	3.39	29978.26	5	
As	75	72	He	0.023	0.71	3190.59	5	
Se	78	72	He	0.024	10.27	102.67	5	
Sr	88	72	He	15.367	2.21	6408678.86	5	>LDR
Mo	95	72	He	0.017	7.21	16376.46	5	
Ag	107	103	He	0.000	13.45	423.35	1	
Cd	111	103	He	0.001	11.42	212.00	5	
Sn	118	103	He	0.002	13.09	1216.74	2	
Sb	121	103	He	0.000	14.91	360.01	1	
Ba	137	103	He	0.829	1.23	187046.17	2	
Tl	205	175	He	0.001	2.40	3823.95	5	
Pb	208	175	He	0.033	1.37	264867.42	5	
U	238	175	He	0.011	1.57	97697.92	5	

QC ISTD Table

Sample Report

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc (No He)	45	No Gas	1568301.59	1.83	1795046.74333333	87.37	60	120	
Ge (No He)	72	No Gas	340350.88	1.24	501274.81	67.9	60	120	
Sc	45	He	15926.52	1.09	19045.7933333333	83.62	60	120	
Ge	72	He	15948.91	1.42	21484.9866666667	74.23	60	120	
Rh	103	He	553153.55	1.11	884571.603333333	62.53	60	120	
Lu	175	He	266179.45	1.17	455248.86	58.47	60	120	ISTD Failed

Sample Report

Sample Name	L734810-09 WG757513
File Name	161SMPL.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\120114ICPMS8A.b
Acq Time	2014-12-01 21:47:27
Sample Type	Sample
Total Dilution	1.1111
Comment	---
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fial	Fail
ISTD QC Pass/Fail	Fail

QC Analyte Table

Name	Mass	ISTD	Tune Mode	Conc.	Conc. RSD	CPS	LDR	QC Flag
B	10	45	No Gas	0.293	1.42	46683.13	5	
B	11	45	No Gas	0.295	0.72	224022.44	5	
Se	82	72	No Gas	0.013	5.15	1870.31	5	
Be	9	45	He	0.002	10.60	26.33	5	
Na	23	45	He	1482.017	1.39	179666943.99	90	>LDR
Mg	24	45	He	355.375	2.23	19649888.46	90	>LDR
Al	27	45	He	30.296	2.76	377945.94	90	
K	39	45	He	15.798	2.93	522595.15	90	
Ca	43	45	He	1274.568	2.86	148427.55	90	>LDR
Ti	47	45	He	0.331	0.19	5974.67	5	
V	51	45	He	0.070	2.43	72001.28	5	
Cr	52	45	He	0.059	4.25	82288.91	5	
Mn	55	72	He	1.328	2.04	537029.50	5	
Fe	56	72	He	37.600	1.32	34168154.49	90	
Co	59	72	He	0.022	1.32	61869.15	5	
Ni	60	72	He	0.045	1.88	36803.84	5	
Cu	63	72	He	0.030	2.21	71279.41	5	
Zn	66	72	He	0.138	2.59	30776.60	5	
As	75	72	He	0.014	3.29	1968.14	5	
Se	78	72	He	0.032	14.21	136.00	5	
Sr	88	72	He	15.911	1.19	6731095.52	5	>LDR
Mo	95	72	He	0.010	4.82	9803.59	5	
Ag	107	103	He	0.000	7.98	586.69	1	
Cd	111	103	He	0.001	18.08	308.67	5	
Sn	118	103	He	0.001	2.67	853.37	2	
Sb	121	103	He	0.000	28.91	220.00	1	
Ba	137	103	He	0.547	1.16	124433.05	2	
Tl	205	175	He	0.001	5.36	3403.83	5	
Pb	208	175	He	0.039	0.87	321087.96	5	
U	238	175	He	0.015	0.99	136375.89	5	

QC ISTD Table

Sample Report

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc (No He)	45	No Gas	1592477.47	1.46	1795046.74333333	88.72	60	120	
Ge (No He)	72	No Gas	344096.65	0.95	501274.81	68.64	60	120	
Sc	45	He	16046.64	2.92	19045.7933333333	84.25	60	120	
Ge	72	He	16178.04	1.49	21484.9866666667	75.3	60	120	
Rh	103	He	558210.97	1.45	884571.603333333	63.11	60	120	
Lu	175	He	269280.55	0.69	455248.86	59.15	60	120	ISTD Failed

Sample Report

Sample Name	L735181-02 WG757513
File Name	162SMPL.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\120114ICPMS8A.b
Acq Time	2014-12-01 21:49:02
Sample Type	Sample
Total Dilution	1.1111
Comment	---
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fial	Fail
ISTD QC Pass/Fail	Fail

QC Analyte Table

Name	Mass	ISTD	Tune Mode	Conc.	Conc. RSD	CPS	LDR	QC Flag
B	10	45	No Gas	0.188	1.21	28140.35	5	
B	11	45	No Gas	0.187	1.30	133575.26	5	
Se	82	72	No Gas	0.000	1479.66	-8.02	5	
Be	9	45	He	0.001	22.57	13.00	5	
Na	23	45	He	727.977	1.59	81395992.12	90	>LDR
Mg	24	45	He	190.671	1.55	9725252.77	90	>LDR
Al	27	45	He	12.959	2.83	149143.80	90	
K	39	45	He	15.529	2.04	474014.23	90	
Ca	43	45	He	1091.098	2.02	117215.73	90	>LDR
Ti	47	45	He	0.231	3.14	3843.91	5	
V	51	45	He	0.048	3.64	46110.19	5	
Cr	52	45	He	0.014	3.90	19026.00	5	
Mn	55	72	He	0.790	2.08	305444.50	5	
Fe	56	72	He	13.250	1.18	11511085.66	90	
Co	59	72	He	0.008	1.31	22330.90	5	
Ni	60	72	He	0.018	2.55	14437.43	5	
Cu	63	72	He	0.009	3.82	20214.50	5	
Zn	66	72	He	0.052	2.28	11241.29	5	
As	75	72	He	0.009	3.44	1141.83	5	
Se	78	72	He	0.007	22.79	29.67	5	
Sr	88	72	He	13.912	1.72	5625638.67	5	>LDR
Mo	95	72	He	0.022	1.63	20732.18	5	
Ag	107	103	He	0.000	23.72	113.33	1	
Cd	111	103	He	0.000	19.39	84.67	5	
Sn	118	103	He	0.001	11.38	620.02	2	
Sb	121	103	He	0.001	23.33	423.35	1	
Ba	137	103	He	0.292	1.76	67609.31	2	
Tl	205	175	He	0.000	3.88	2190.22	5	
Pb	208	175	He	0.011	0.52	84567.25	5	
U	238	175	He	0.029	1.14	245658.40	5	

QC ISTD Table

Sample Report

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc (No He)	45	No Gas	1495145.29	1.24	1795046.74333333	83.29	60	120	
Ge (No He)	72	No Gas	349129.43	0.31	501274.81	69.65	60	120	
Sc	45	He	14797.53	1.54	19045.7933333333	77.69	60	120	
Ge	72	He	15463.93	1.35	21484.9866666667	71.98	60	120	
Rh	103	He	568630.56	0.20	884571.603333333	64.28	60	120	
Lu	175	He	259398.19	1.18	455248.86	56.98	60	120	ISTD Failed

Continuing Calibration Verification (CCV) Report

Sample Name	CCV 14K05175
File Name	163_CCV.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\120114ICPMS8A.b
Acq Time	2014-12-01 21:50:33
Sample Type	CCV
Total Dilution	1.0000
Comment	---
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fial	Fail
ISTD QC Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD	Tune Mode	Conc.	Conc. RSD	CPS	ExpValue	% Rec	%QC Low	%QC High	QC Flag
B	10	45	No Gas	0.084	1.51	15809.02	0.9	9.33	10	10	CCV Main CR1 Failed
B	11	45	No Gas	0.085	0.98	75840.24	0.9	9.4	10	10	CCV Main CR1 Failed
Se	82	72	No Gas	0.096	0.67	20399.52	0.9	10.71	10	10	
Be	9	45	He	0.111	3.31	1397.40	0.9	12.37	10	10	CCV Main CR1 Failed
Na	23	45	He	12.236	2.01	1739097.73	0.9	1359.54	1000	1000	CCV Main CR1 Failed
Mg	24	45	He	10.888	1.64	702443.58	0.9	1209.82	1000	1000	
Al	27	45	He	1.021	1.96	14884.40	0.9	113.48	100	100	
K	39	45	He	10.143	1.21	392815.85	0.9	1126.95	1000	1000	
Ca	43	45	He	10.874	1.46	1483.41	0.9	1208.2	1000	1000	
Ti	47	45	He	0.098	2.63	2066.85	0.9	10.9	10	10	
V	51	45	He	0.104	2.18	125411.59	0.9	11.56	10	10	
Cr	52	45	He	0.105	2.47	169989.13	0.9	11.72	10	10	
Mn	55	72	He	0.105	2.53	54278.37	0.9	11.71	10	10	
Fe	56	72	He	1.030	1.00	1194273.31	0.9	114.44	100	100	
Co	59	72	He	0.106	0.82	370530.95	0.9	11.73	10	10	
Ni	60	72	He	0.105	0.85	108730.52	0.9	11.62	10	10	
Cu	63	72	He	0.106	0.34	320991.23	0.9	11.75	10	10	
Zn	66	72	He	0.103	2.26	29169.95	0.9	11.39	10	10	
As	75	72	He	0.101	0.58	17920.06	0.9	11.19	10	10	
Se	78	72	He	0.092	2.58	494.68	0.9	10.19	10	10	
Sr	88	72	He	0.099	1.86	53310.51	0.9	10.96	10	10	
Mo	95	72	He	0.102	2.33	127088.30	0.9	11.32	10	10	
Ag	107	103	He	0.100	0.96	497280.61	0.9	11.11	10	10	
Cd	111	103	He	0.096	1.11	44242.95	0.9	10.65	10	10	
Sn	118	103	He	0.096	1.29	79664.17	0.9	10.63	10	10	
Sb	121	103	He	0.093	1.27	97182.42	0.9	10.29	10	10	
Ba	137	103	He	0.092	0.87	31326.10	0.9	10.23	10	10	
Tl	205	175	He	0.106	1.39	941066.31	0.9	11.83	10	10	
Pb	208	175	He	0.110	1.26	1197390.79	0.9	12.25	10	10	CCV Main CR1 Failed
U	238	175	He	0.103	1.04	1207018.52	0.9	11.44	10	10	

QC ISTD Table

Continuing Calibration Verification (CCV) Report

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc (No He)	45	No Gas	1683018.73	1.96	1795046.74333333	93.76	60	120	
Ge (No He)	72	No Gas	435464.89	0.31	501274.81	86.87	60	120	
Sc	45	He	16837.54	1.38	19045.7933333333	88.41	60	120	
Ge	72	He	18536.48	0.28	21484.9866666667	86.28	60	120	
Rh	103	He	749832.20	0.94	884571.603333333	84.77	60	120	
Lu	175	He	319816.77	0.56	455248.86	70.25	60	120	

Continuing Calibration Blank (CCB) Report

Sample Name	CCB 14K05174
File Name	164_CCB.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\120114ICPMS8A.b
Acq Time	2014-12-01 21:52:06
Sample Type	CCB
Total Dilution	1.0000
Comment	---
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fial	Pass
ISTD QC Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD	Tune Mode	Conc.	Conc. RSD	CPS	Limit	QC Flag
B	10	45	No Gas	0.009	1.58	1730.78	0.015	
B	11	45	No Gas	0.009	4.38	7876.09	0.015	
Se	82	72	No Gas	-0.003	N/A	-711.26	0.00075	CCB Main CR1 Failed
Be	9	45	He	0.000	693.85	0.67	0.00075	
Na	23	45	He	0.778	0.39	115711.72	0.75	CCB Main CR1 Failed
Mg	24	45	He	0.027	5.09	2000.17	0.75	
Al	27	45	He	0.002	58.96	50.00	0.0375	
K	39	45	He	0.000	N/A	4964.26	0.75	
Ca	43	45	He	0.084	51.07	17.33	0.75	
Ti	47	45	He	0.000	NaN	0.00	0.0075	
V	51	45	He	0.000	18.12	43.33	0.0015	
Cr	52	45	He	0.000	60.56	823.37	0.00075	
Mn	55	72	He	0.000	15.83	80.00	0.0015	
Fe	56	72	He	0.001	18.74	3923.93	0.0375	
Co	59	72	He	0.000	N/A	80.00	0.00075	
Ni	60	72	He	0.000	104.48	96.67	0.00075	
Cu	63	72	He	0.000	546.83	206.67	0.0015	
Zn	66	72	He	0.000	N/A	103.33	0.0075	
As	75	72	He	0.000	8.14	10.22	0.00075	
Se	78	72	He	0.000	N/A	3.00	0.00075	
Sr	88	72	He	0.001	12.89	753.37	0.0075	
Mo	95	72	He	0.000	44.91	33.33	0.0015	
Ag	107	103	He	0.000	34.64	233.34	0.000375	
Cd	111	103	He	0.000	92.93	6.67	0.000375	
Sn	118	103	He	0.000	275.80	53.33	0.00075	
Sb	121	103	He	0.000	25.13	223.34	0.00075	
Ba	137	103	He	0.000	N/A	10.00	0.0015	
Tl	205	175	He	0.000	26.82	246.68	0.00075	
Pb	208	175	He	0.000	N/A	486.68	0.00075	
U	238	175	He	0.000	N/A	293.34	0.0075	

QC ISTD Table

Continuing Calibration Blank (CCB) Report

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc (No He)	45	No Gas	1598227.01	1.86	1795046.74333333	89.04	60	120	
Ge (No He)	72	No Gas	420721.46	1.05	501274.81	83.93	60	120	
Sc	45	He	16289.13	1.08	19045.7933333333	85.53	60	120	
Ge	72	He	18118.14	1.12	21484.9866666667	84.33	60	120	
Rh	103	He	746310.93	0.34	884571.603333333	84.37	60	120	
Lu	175	He	323926.26	0.90	455248.86	71.15	60	120	

Sample Report

Sample Name	L735181-07 WG757513
File Name	165SMPL.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\120114ICPMS8A.b
Acq Time	2014-12-01 22:11:21
Sample Type	Sample
Total Dilution	1.1111
Comment	---
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fial	Fail
ISTD QC Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD	Tune Mode	Conc.	Conc. RSD	CPS	LDR	QC Flag
B	10	45	No Gas	0.369	1.11	59787.97	5	
B	11	45	No Gas	0.368	1.61	283137.26	5	
Se	82	72	No Gas	0.007	3.36	1257.54	5	
Be	9	45	He	0.001	46.41	11.00	5	
Na	23	45	He	2067.186	1.83	243705256.37	90	>LDR
Mg	24	45	He	457.609	2.17	24609789.63	90	>LDR
Al	27	45	He	10.807	1.14	131167.58	90	
K	39	45	He	18.676	2.14	600083.01	90	
Ca	43	45	He	988.264	1.61	111955.60	90	>LDR
Ti	47	45	He	0.162	1.47	2840.33	5	
V	51	45	He	0.149	2.81	149826.19	5	
Cr	52	45	He	0.015	2.49	20945.42	5	
Mn	55	72	He	0.403	0.62	169504.44	5	
Fe	56	72	He	12.751	0.92	12043858.57	90	
Co	59	72	He	0.007	0.96	20705.08	5	
Ni	60	72	He	0.016	2.94	13346.42	5	
Cu	63	72	He	0.009	1.58	21469.64	5	
Zn	66	72	He	0.042	2.50	9903.56	5	
As	75	72	He	0.029	0.57	4201.51	5	
Se	78	72	He	0.009	7.37	43.33	5	
Sr	88	72	He	16.979	0.46	7465389.47	5	>LDR
Mo	95	72	He	0.056	1.06	56550.10	5	
Ag	107	103	He	0.000	4.29	143.33	1	
Cd	111	103	He	0.000	26.24	94.00	5	
Sn	118	103	He	0.001	9.30	580.03	2	
Sb	121	103	He	0.000	16.39	363.34	1	
Ba	137	103	He	0.188	1.60	48843.66	2	
Tl	205	175	He	0.000	9.86	2073.54	5	
Pb	208	175	He	0.009	0.94	93386.93	5	
U	238	175	He	0.115	2.64	1331601.67	5	

QC ISTD Table

Sample Report

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc (No He)	45	No Gas	1617284.56	1.35	1795046.74333333	90.1	60	120	
Ge (No He)	72	No Gas	400555.71	0.54	501274.81	79.91	60	120	
Sc	45	He	15603.93	1.58	19045.7933333333	81.93	60	120	
Ge	72	He	16812.09	0.64	21484.9866666667	78.25	60	120	
Rh	103	He	638097.96	0.33	884571.603333333	72.14	60	120	
Lu	175	He	351687.29	0.76	455248.86	77.25	60	120	

Sample Report

Sample Name	L735181-08 WG757513
File Name	166SMPL.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\120114ICPMS8A.b
Acq Time	2014-12-01 22:12:55
Sample Type	Sample
Total Dilution	1.1111
Comment	---
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fial	Fail
ISTD QC Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD	Tune Mode	Conc.	Conc. RSD	CPS	LDR	QC Flag
B	10	45	No Gas	0.147	2.12	25565.11	5	
B	11	45	No Gas	0.144	1.59	118911.81	5	
Se	82	72	No Gas	-0.001	N/A	-270.63	5	
Be	9	45	He	0.001	60.23	8.67	5	
Na	23	45	He	76.243	2.06	9216946.11	90	
Mg	24	45	He	125.419	1.21	6910344.90	90	>LDR
Al	27	45	He	7.210	1.78	89647.35	90	
K	39	45	He	15.825	1.71	521678.59	90	
Ca	43	45	He	787.819	1.17	91430.83	90	>LDR
Ti	47	45	He	0.134	5.90	2403.58	5	
V	51	45	He	0.023	1.96	23753.12	5	
Cr	52	45	He	0.008	0.51	11494.75	5	
Mn	55	72	He	0.763	0.37	339027.70	5	
Fe	56	72	He	6.361	0.54	6350104.70	90	
Co	59	72	He	0.006	0.54	18351.96	5	
Ni	60	72	He	0.011	0.95	10310.50	5	
Cu	63	72	He	0.005	2.07	12071.91	5	
Zn	66	72	He	0.031	1.57	7775.57	5	
As	75	72	He	0.044	2.28	6694.90	5	
Se	78	72	He	0.003	18.45	15.67	5	
Sr	88	72	He	11.441	0.95	5315374.30	5	>LDR
Mo	95	72	He	0.028	0.75	30018.86	5	
Ag	107	103	He	0.000	82.65	40.00	1	
Cd	111	103	He	0.000	17.45	67.33	5	
Sn	118	103	He	0.001	15.47	573.36	2	
Sb	121	103	He	0.000	10.16	226.68	1	
Ba	137	103	He	0.179	3.04	52018.70	2	
Tl	205	175	He	0.000	5.59	3467.19	5	
Pb	208	175	He	0.005	0.99	59661.08	5	
U	238	175	He	0.035	1.59	424120.96	5	

QC ISTD Table

Sample Report

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc (No He)	45	No Gas	1731850.13	1.47	1795046.74333333	96.48	60	120	
Ge (No He)	72	No Gas	435987.19	1.33	501274.81	86.98	60	120	
Sc	45	He	15984.37	1.46	19045.7933333333	83.93	60	120	
Ge	72	He	17764.37	0.25	21484.9866666667	82.68	60	120	
Rh	103	He	711763.43	0.16	884571.603333333	80.46	60	120	
Lu	175	He	362857.52	1.42	455248.86	79.71	60	120	

Sample Report

Sample Name	L735318-07 WG757513
File Name	167SMPL.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\120114ICPMS8A.b
Acq Time	2014-12-01 22:14:28
Sample Type	Sample
Total Dilution	1.1111
Comment	---
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fial	Fail
ISTD QC Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD	Tune Mode	Conc.	Conc. RSD	CPS	LDR	QC Flag
B	10	45	No Gas	0.320	2.62	55771.89	5	
B	11	45	No Gas	0.314	2.18	260843.23	5	
Se	82	72	No Gas	0.006	12.94	1095.16	5	
Be	9	45	He	0.002	19.57	25.00	5	
Na	23	45	He	56.290	1.47	6722709.06	90	
Mg	24	45	He	164.909	1.14	8973264.45	90	>LDR
Al	27	45	He	25.468	1.17	312684.07	90	
K	39	45	He	22.163	0.84	719627.83	90	
Ca	43	45	He	1280.785	1.17	146792.55	90	>LDR
Ti	47	45	He	0.494	6.85	8789.42	5	
V	51	45	He	0.090	1.03	91620.87	5	
Cr	52	45	He	0.026	3.20	35510.34	5	
Mn	55	72	He	0.933	1.32	393649.30	5	
Fe	56	72	He	26.074	0.44	24702888.80	90	
Co	59	72	He	0.019	0.30	55473.44	5	
Ni	60	72	He	0.034	1.59	28895.81	5	
Cu	63	72	He	0.018	0.91	44706.26	5	
Zn	66	72	He	0.095	2.77	22240.78	5	
As	75	72	He	0.016	2.97	2360.20	5	
Se	78	72	He	0.018	10.22	81.00	5	
Sr	88	72	He	14.502	1.08	6396116.57	5	>LDR
Mo	95	72	He	0.027	3.82	27156.40	5	
Ag	107	103	He	0.000	5.61	103.33	1	
Cd	111	103	He	0.001	3.20	214.00	5	
Sn	118	103	He	0.001	7.09	926.72	2	
Sb	121	103	He	0.001	2.57	670.03	1	
Ba	137	103	He	0.471	1.88	129350.93	2	
Tl	205	175	He	0.001	4.08	5421.22	5	
Pb	208	175	He	0.024	1.11	250374.24	5	
U	238	175	He	0.029	1.05	333128.10	5	

QC ISTD Table

Sample Report

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc (No He)	45	No Gas	1743812.94	2.84	1795046.74333333	97.15	60	120	
Ge (No He)	72	No Gas	416425.33	0.97	501274.81	83.07	60	120	
Sc	45	He	15785.23	0.94	19045.7933333333	82.88	60	120	
Ge	72	He	16864.41	0.54	21484.9866666667	78.49	60	120	
Rh	103	He	673998.32	0.51	884571.603333333	76.19	60	120	
Lu	175	He	342459.79	0.70	455248.86	75.22	60	120	

Sample Report

Sample Name	L735318-08 WG757513
File Name	168SMPL.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\120114ICPMS8A.b
Acq Time	2014-12-01 22:16:02
Sample Type	Sample
Total Dilution	1.1111
Comment	---
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fial	Fail
ISTD QC Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD	Tune Mode	Conc.	Conc. RSD	CPS	LDR	QC Flag
B	10	45	No Gas	0.138	1.42	23614.60	5	
B	11	45	No Gas	0.136	0.60	111022.65	5	
Se	82	72	No Gas	0.006	12.98	1029.64	5	
Be	9	45	He	0.001	14.84	13.00	5	
Na	23	45	He	67.358	0.91	7721024.68	90	
Mg	24	45	He	86.711	2.21	4529120.04	90	
Al	27	45	He	20.527	2.27	241909.61	90	
K	39	45	He	9.161	1.97	288253.04	90	
Ca	43	45	He	1385.287	2.25	152403.60	90	>LDR
Ti	47	45	He	0.404	2.91	6905.08	5	
V	51	45	He	0.066	3.34	64811.20	5	
Cr	52	45	He	0.028	3.22	37044.28	5	
Mn	55	72	He	0.481	0.84	200095.57	5	
Fe	56	72	He	22.425	1.58	20963864.27	90	
Co	59	72	He	0.011	0.80	31407.83	5	
Ni	60	72	He	0.023	3.73	19016.20	5	
Cu	63	72	He	0.014	3.83	34528.39	5	
Zn	66	72	He	0.079	1.72	18141.64	5	
As	75	72	He	0.008	4.56	1136.49	5	
Se	78	72	He	0.012	17.16	54.00	5	
Sr	88	72	He	12.803	1.46	5571878.04	5	>LDR
Mo	95	72	He	0.013	3.55	13143.05	5	
Ag	107	103	He	0.000	50.99	133.34	1	
Cd	111	103	He	0.000	4.17	128.67	5	
Sn	118	103	He	0.001	12.85	566.69	2	
Sb	121	103	He	0.001	9.30	620.02	1	
Ba	137	103	He	0.348	1.02	93892.89	2	
Tl	205	175	He	0.000	7.04	3413.83	5	
Pb	208	175	He	0.016	1.02	169252.70	5	
U	238	175	He	0.012	1.63	138372.92	5	

QC ISTD Table

Sample Report

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc (No He)	45	No Gas	1703689.56	0.58	1795046.74333333	94.91	60	120	
Ge (No He)	72	No Gas	411789.38	0.30	501274.81	82.15	60	120	
Sc	45	He	15153.45	1.25	19045.7933333333	79.56	60	120	
Ge	72	He	16641.91	0.89	21484.9866666667	77.46	60	120	
Rh	103	He	660721.14	0.64	884571.603333333	74.69	60	120	
Lu	175	He	336505.12	1.70	455248.86	73.92	60	120	

Sample Report

Sample Name	L734810-05 WG757513
File Name	169SMPL.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\120114ICPMS8A.b
Acq Time	2014-12-01 22:17:32
Sample Type	Sample
Total Dilution	5.5556
Comment	---
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fial	Fail
ISTD QC Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD	Tune Mode	Conc.	Conc. RSD	CPS	LDR	QC Flag
B	10	45	No Gas	0.197	2.48	7133.04	5	
B	11	45	No Gas	0.202	0.92	34736.16	5	
Se	82	72	No Gas	0.007	52.15	240.85	5	
Be	9	45	He	0.002	48.20	5.33	5	
Na	23	45	He	1769.824	0.75	43636102.68	90	>LDR
Mg	24	45	He	488.332	1.86	5491344.08	90	
Al	27	45	He	19.459	1.75	49392.71	90	
K	39	45	He	11.730	0.75	83161.99	90	
Ca	43	45	He	1325.592	1.60	31402.19	90	>LDR
Ti	47	45	He	0.265	6.96	973.38	5	
V	51	45	He	0.077	2.53	16219.28	5	
Cr	52	45	He	0.045	3.24	13192.83	5	
Mn	55	72	He	0.703	0.57	65213.38	5	
Fe	56	72	He	25.324	0.44	5275024.51	90	
Co	59	72	He	0.014	3.55	8762.82	5	
Ni	60	72	He	0.030	6.46	5611.20	5	
Cu	63	72	He	0.022	3.24	12101.94	5	
Zn	66	72	He	0.104	4.44	5454.46	5	
As	75	72	He	0.008	12.56	252.89	5	
Se	78	72	He	0.025	32.05	27.00	5	
Sr	88	72	He	20.327	1.14	1970536.22	5	
Mo	95	72	He	0.017	0.53	3847.26	5	
Ag	107	103	He	0.000	8.89	370.01	1	
Cd	111	103	He	0.000	40.62	44.00	5	
Sn	118	103	He	0.002	14.31	313.34	2	
Sb	121	103	He	0.001	33.52	186.67	1	
Ba	137	103	He	0.343	2.27	21400.21	2	
Tl	205	175	He	0.000	10.46	986.72	5	
Pb	208	175	He	0.022	1.09	54038.36	5	
U	238	175	He	0.008	5.05	20626.76	5	

QC ISTD Table

Sample Report

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc (No He)	45	No Gas	1774856.80	0.70	1795046.74333333	98.88	60	120	
Ge (No He)	72	No Gas	462913.69	0.68	501274.81	92.35	60	120	
Sc	45	He	16311.38	1.01	19045.7933333333	85.64	60	120	
Ge	72	He	18532.00	0.62	21484.9866666667	86.26	60	120	
Rh	103	He	763187.15	1.06	884571.603333333	86.28	60	120	
Lu	175	He	386851.33	0.18	455248.86	84.98	60	120	

Continuing Calibration Verification (CCV) Report

Sample Name	CCV 14K05175
File Name	170_CCV.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\120114ICPMS8A.b
Acq Time	2014-12-01 22:20:51
Sample Type	CCV
Total Dilution	1.0000
Comment	---
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fial	Fail
ISTD QC Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD	Tune Mode	Conc.	Conc. RSD	CPS	ExpValue	% Rec	%QC Low	%QC High	QC Flag
B	10	45	No Gas	0.083	1.42	17452.18	0.9	9.18	10	10	CCV Main CR1 Failed
B	11	45	No Gas	0.081	0.25	81788.66	0.9	9.04	10	10	CCV Main CR1 Failed
Se	82	72	No Gas	0.098	2.91	24375.81	0.9	10.92	10	10	
Be	9	45	He	0.113	4.61	1482.41	0.9	12.54	10	10	CCV Main CR1 Failed
Na	23	45	He	10.970	2.08	1633918.72	0.9	1218.84	1000	1000	
Mg	24	45	He	10.400	2.35	702551.34	0.9	1155.57	1000	1000	
Al	27	45	He	1.006	5.65	15338.20	0.9	111.77	100	100	
K	39	45	He	9.893	1.98	401333.64	0.9	1099.23	1000	1000	
Ca	43	45	He	10.367	0.88	1481.75	0.9	1151.91	1000	1000	
Ti	47	45	He	0.102	4.07	2240.22	0.9	11.29	10	10	
V	51	45	He	0.107	2.06	134538.46	0.9	11.85	10	10	
Cr	52	45	He	0.108	2.12	182248.09	0.9	12	10	10	
Mn	55	72	He	0.101	3.13	56654.10	0.9	11.27	10	10	
Fe	56	72	He	1.018	1.63	1279587.43	0.9	113.13	100	100	
Co	59	72	He	0.106	0.72	402331.44	0.9	11.76	10	10	
Ni	60	72	He	0.107	1.32	120357.21	0.9	11.87	10	10	
Cu	63	72	He	0.108	0.95	353985.49	0.9	11.96	10	10	
Zn	66	72	He	0.104	1.62	32045.89	0.9	11.55	10	10	
As	75	72	He	0.102	1.61	19659.67	0.9	11.33	10	10	
Se	78	72	He	0.092	3.98	538.34	0.9	10.23	10	10	
Sr	88	72	He	0.099	0.91	58075.68	0.9	11.02	10	10	
Mo	95	72	He	0.109	1.62	147217.90	0.9	12.1	10	10	
Ag	107	103	He	0.101	0.66	581984.94	0.9	11.17	10	10	
Cd	111	103	He	0.098	2.05	52862.63	0.9	10.93	10	10	
Sn	118	103	He	0.100	1.07	97214.83	0.9	11.14	10	10	
Sb	121	103	He	0.097	2.25	119145.18	0.9	10.83	10	10	
Ba	137	103	He	0.097	1.99	38310.39	0.9	10.75	10	10	
Tl	205	175	He	0.108	0.75	1302603.16	0.9	11.97	10	10	
Pb	208	175	He	0.112	0.99	1666165.22	0.9	12.46	10	10	CCV Main CR1 Failed
U	238	175	He	0.110	1.31	1757094.04	0.9	12.18	10	10	

QC ISTD Table

Continuing Calibration Verification (CCV) Report

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc (No He)	45	No Gas	1886962.47	0.86	1795046.74333333	105.12	60	120	
Ge (No He)	72	No Gas	510050.75	0.35	501274.81	101.75	60	120	
Sc	45	He	17635.13	2.70	19045.7933333333	92.59	60	120	
Ge	72	He	20092.97	1.37	21484.9866666667	93.52	60	120	
Rh	103	He	872934.86	0.93	884571.603333333	98.68	60	120	
Lu	175	He	437436.33	0.87	455248.86	96.09	60	120	

Continuing Calibration Blank (CCB) Report

Sample Name	CCB 14K05174
File Name	171_CCB.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\120114ICPMS8A.b
Acq Time	2014-12-01 22:22:23
Sample Type	CCB
Total Dilution	1.0000
Comment	---
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fial	Pass
ISTD QC Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD	Tune Mode	Conc.	Conc. RSD	CPS	Limit	QC Flag
B	10	45	No Gas	0.006	5.54	1357.40	0.015	
B	11	45	No Gas	0.006	4.15	6227.31	0.015	
Se	82	72	No Gas	-0.002	N/A	-428.18	0.00075	
Be	9	45	He	0.000	0.00	0.00	0.00075	
Na	23	45	He	0.241	5.33	44142.84	0.75	
Mg	24	45	He	0.007	31.70	806.71	0.75	
Al	27	45	He	0.002	137.80	43.33	0.0375	
K	39	45	He	-0.011	N/A	4764.20	0.75	
Ca	43	45	He	0.054	9.74	14.00	0.75	
Ti	47	45	He	0.000	NaN	0.00	0.0075	
V	51	45	He	0.000	28.77	33.33	0.0015	
Cr	52	45	He	0.000	N/A	673.37	0.00075	
Mn	55	72	He	0.000	128.39	40.00	0.0015	
Fe	56	72	He	0.000	N/A	2690.30	0.0375	
Co	59	72	He	0.000	N/A	66.67	0.00075	
Ni	60	72	He	0.000	N/A	40.00	0.00075	
Cu	63	72	He	0.000	N/A	160.01	0.0015	
Zn	66	72	He	0.000	N/A	116.67	0.0075	
As	75	72	He	0.000	52.45	10.67	0.00075	
Se	78	72	He	0.000	198.67	3.67	0.00075	
Sr	88	72	He	0.000	23.15	350.01	0.0075	
Mo	95	72	He	0.000	49.29	40.00	0.0015	
Ag	107	103	He	0.000	21.29	260.01	0.000375	
Cd	111	103	He	0.000	35.14	10.67	0.000375	
Sn	118	103	He	0.000	338.23	60.00	0.00075	
Sb	121	103	He	0.000	20.69	253.34	0.00075	
Ba	137	103	He	0.000	N/A	23.33	0.0015	
Tl	205	175	He	0.000	14.79	346.68	0.00075	
Pb	208	175	He	0.000	N/A	703.35	0.00075	
U	238	175	He	0.000	N/A	400.01	0.0075	

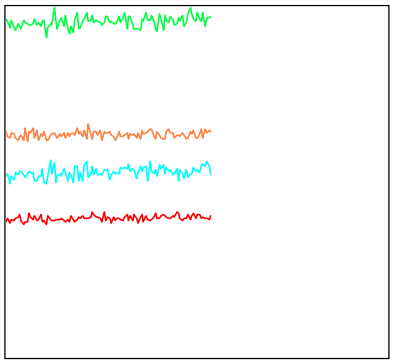
QC ISTD Table

Continuing Calibration Blank (CCB) Report

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc (No He)	45	No Gas	1804602.89	0.54	1795046.74333333	100.53	60	120	
Ge (No He)	72	No Gas	499894.35	0.41	501274.81	99.72	60	120	
Sc	45	He	17039.96	2.27	19045.7933333333	89.47	60	120	
Ge	72	He	19857.12	1.38	21484.9866666667	92.42	60	120	
Rh	103	He	856320.46	0.29	884571.603333333	96.81	60	120	
Lu	175	He	433166.77	0.44	455248.86	95.15	60	120	

Current Signal

[No Gas]



Mass	Range	Count	Avg. Count	RSD [%]
7	5000	2596	2634.0	2.89
59	20000	19431	19133.4	1.64
89	50000	32135	31737.8	1.57
205	50000	20089	19791.9	1.97
156/140	1	0.620 %	0.693 %	7.01
70/140	2	1.365 %	1.361 %	5.51
103	500	247	201.4	10.20

Integration Time [sec] 0.10

Plasma Parameters

RF Power	1550	W	Nebulizer Pump	0.10	rps
RF Matching	1.60	V	S/C Temp	2	℃
Smpl Depth	10.0	mm	Gas Switch	Dilution Gas	
Carrier Gas	0.75	L/min	Makeup/Dilution Gas	0.35	L/min
Option Gas	0.0	%			

Lenses Parameters

Extract 1	0.0	V	Cell Entrance	-30	V
Extract 2	-200.0	V	Cell Exit	-52	V
Omega Bias	-80	V	Deflect	15.4	V
Omega Lens	8.8	V	Plate Bias	-40	V

Cell Parameters

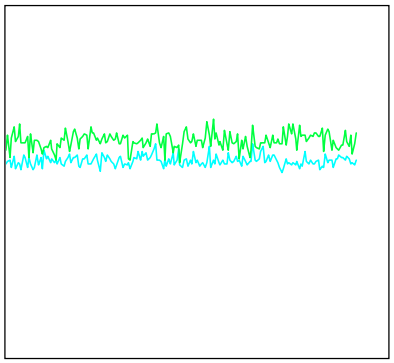
Use Gas	false		OctP Bias	-8.0	V
He Flow	5.0	mL/min	OctP RF	150	V
H2 Flow	0.0	mL/min	Energy Discrimination	5.0	V
3rd Gas Flow	0	%			

Meters

IF/BK Press	1.70E+2	Pa	Water RF/WC/IF	1.48	L/min
TMP Revolution	100.0	%	S/C Temp (L)	2.0	℃
Carrier Gas(BP)	3.28E+2	kPa			

Current Signal

[He]



Mass	Range	Count	Avg. Count	RSD [%]
59	5000	2806	2800.3	2.67
89	2000	1281	1234.1	3.84
51/59	1	0.143 %	0.080 %	73.39
75	20	0	0.3	190.97
78	20	0	0.5	140.13
Integration Time [sec]			0.10	

Plasma Parameters

RF Power	1550	W	Nebulizer Pump	0.10	rps
RF Matching	1.60	V	S/C Temp	2	℃
Smpl Depth	10.0	mm	Gas Switch	Dilution Gas	
Carrier Gas	0.75	L/min	Makeup/Dilution Gas	0.35	L/min
Option Gas	0.0	%			

Lenses Parameters

Extract 1	0.0	V	Cell Entrance	-36	V
Extract 2	-200.0	V	Cell Exit	-64	V
Omega Bias	-80	V	Deflect	4.0	V
Omega Lens	8.8	V	Plate Bias	-60	V

Cell Parameters

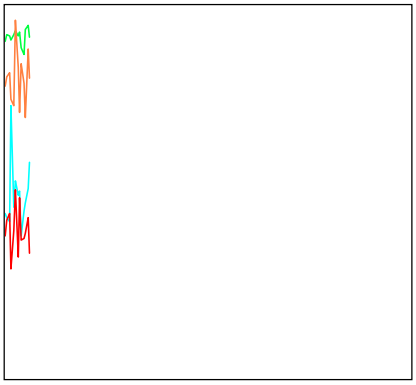
Use Gas	true		OctP Bias	-18.0	V
He Flow	4.9	mL/min	OctP RF	150	V
H2 Flow	0.0	mL/min	Energy Discrimination	5.0	V
3rd Gas Flow	0	%			

Meters

IF/BK Press	1.71E+2	Pa	Water RF/WC/IF	1.47	L/min
TMP Revolution	100.0	%	S/C Temp (L)	1.9	℃
Carrier Gas(BP)	3.29E+2	kPa			

Current Signal

[No Gas]



Mass	Range	Count	Avg. Count	RSD [%]
7	100	58	49.2	17.98
59	20000	18285	18322.1	2.22
89	200	161	160.5	8.92
205	200	67	79.2	15.30
156/140	1	0.615 %	0.649 %	7.84
70/140	5	1.800 %	1.813 %	7.07
103	50000	34079	33776.1	2.03
Integration Time [sec]		0.10		

Plasma Parameters

RF Power	1550	W	Nebulizer Pump	0.10	rps
RF Matching	1.60	V	S/C Temp	2	℃
Smpl Depth	10.0	mm	Gas Switch	Dilution Gas	
Carrier Gas	0.75	L/min	Makeup/Dilution Gas	0.35	L/min
Option Gas	0.0	%			

Lenses Parameters

Extract 1	0.0	V	Cell Entrance	-30	V
Extract 2	-200.0	V	Cell Exit	-52	V
Omega Bias	-80	V	Deflect	15.4	V
Omega Lens	8.8	V	Plate Bias	-40	V

Cell Parameters

Use Gas	false		OctP Bias	-8.0	V
He Flow	5.0	mL/min	OctP RF	150	V
H2 Flow	0.0	mL/min	Energy Discrimination	5.0	V
3rd Gas Flow	0	%			

Meters

IF/BK Press	1.68E+2	Pa	Water RF/WC/IF	1.49	L/min
TMP Revolution	100.0	%	S/C Temp (L)	2.0	℃
Carrier Gas(BP)	3.31E+2	kPa			

Tune Report

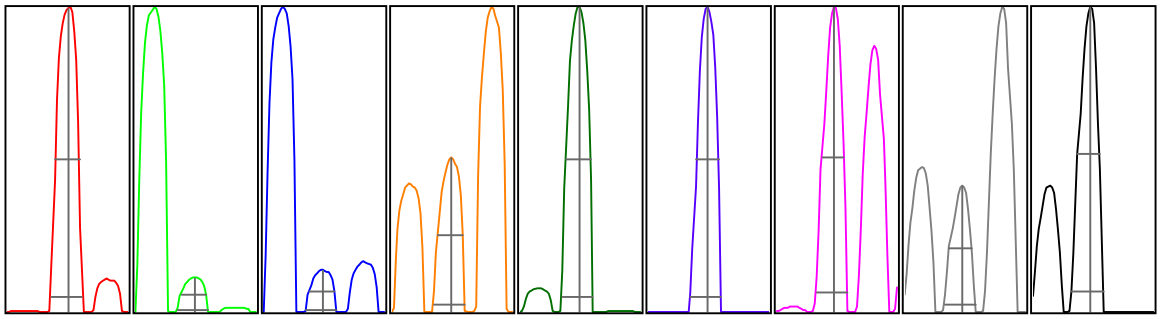
Batch Folder C:\Agilent\ICPMH\1\DATA\120214ICPMS8A.b
Acq. Date-Time 2014-12-02 15:45
Report Comment
Instrument Name G8403A JP14080166

[No Gas]

Mass	RSD % (Actual)	RSD % (Required)	RSD % (Flag)
9	0.99	5.00	
24	0.34	5.00	
25	1.17	5.00	
26	0.78	5.00	
59	0.36	5.00	
115	0.31	5.00	
206	0.82	5.00	
207	0.51	5.00	
208	0.26	5.00	

Mass	Rep. 1 Count	Rep. 2 Count	Rep. 3 Count	Rep. 4 Count	Rep. 5 Count
9	5832	5927	5911	5831	5792
24	49439	48999	49219	49097	49260
25	6663	6576	6576	6760	6685
26	7858	7961	7895	7867	8000
59	109515	109159	109270	109089	108471
115	176609	176965	176752	177981	176762
206	36882	36844	37607	37104	37105
207	31974	31890	32217	31979	31768
208	77338	77305	77781	77339	77366

Integration Time [sec] 0.1



Mass	Peak Height	Axis (Actual)	Axis (Required)	Axis (Flag)	W-50 %	W-5 % (Actual)	W-5 % (Required)	W-5 % (Flag)
9	1005.40	9.05	8.9 - 9.1		0.61	0.775	0.850	
24	8104.81	24.00	23.9 - 24.1		0.64	0.774	0.850	
25	1110.28	25.00	24.9 - 25.1		0.63	0.743	0.850	
26	1339.43	26.00	25.9 - 26.1		0.63	0.777	0.850	
59	18655.83	59.00	58.9 - 59.1		0.62	0.776	0.850	
115	32897.50	115.00	114.9 - 115.1		0.56	0.755	0.850	
206	7053.45	205.95	205.9 - 206.1		0.55	0.771	0.850	
207	6155.10	206.95	206.9 - 207.1		0.54	0.769	0.850	
208	14896.99	207.95	207.9 - 208.1		0.53	0.785	0.850	

Tune Report

Integration Time [sec] 0.1 **Acquisition Time [sec]** 212.5 **Y Axis** Linear

Tune Parameters
Plasma Paramters

RF Power	1550 W	Nebulizer Pump	0.10 rps
RF Matching	1.60 V	S/C Temp	2 ℃
Smpl Depth	10.0 mm	Gas Switch	Dilution Gas
Carrier Gas	0.75 L/min	Makeup/Dilution Gas	0.35 L/min
Option Gas	0.0 %		

Lenses Parameters

Extract 1	0.0 V	Cell Entrance	-30 V
Extract 2	-200.0 V	Cell Exit	-52 V
Omega Bias	-80 V	Deflect	15.4 V
Omega Lens	8.8 V	Plate Bias	-40 V

Cell Parameters

Use Gas	false	OctP Bias	-8.0 V
He Flow	0.0 mL/min	OctP RF	150 V
H2 Flow	0.0 mL/min	Energy Discrimination	5.0 V
3rd Gas Flow	0 %		

Calibration Blank Report

Sample Name	CALBLK 14K05174
File Name	001CALB.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\120214ICPMS8A.b
Acq Time	2014-12-02 16:01:13
Sample Type	CalBlk
Total Dilution	1.0000
Comment	---
ISTD Ref FileName	001CALB.d
Sample QC Pass/Fial	Pass
ISTD QC Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD	Tune Mode	CPS	CPS RSD
B	11	45	No Gas	3657.12	2.47
Na	23	45	He	13890.07	4.14
Mg	24	45	He	73.33	15.75
Al	27	45	He	16.67	124.90
K	39	45	He	5124.35	6.96
Ca	43	45	He	5.33	28.64
V	51	45	He	23.33	89.21
Cr	52	45	He	750.03	6.67
Mn	55	72	He	83.33	13.86
Fe	56	72	He	11734.95	6.98
Co	59	72	He	50.00	40.00
Ni	60	72	He	93.33	50.63
Cu	63	72	He	186.67	17.22
Zn	66	72	He	166.67	34.12
As	75	72	He	2.22	34.80
Se	78	72	He	5.00	69.28
Sr	88	72	He	110.00	31.49
Mo	95	72	He	16.67	34.64
Ag	107	103	He	20.00	0.00
Sn	118	103	He	83.33	24.98
Sb	121	103	He	30.00	57.74
Ba	137	103	He	26.67	114.56
Tl	205	175	He	56.67	53.91
Pb	208	175	He	326.67	31.42
U	238	175	He	113.34	66.81

QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD
Sc (No He)	45	No Gas	1826109.76	0.39
Ge (No He)	72	No Gas	496320.29	0.23
Sc	45	He	18627.45	2.05
Ge	72	He	20845.16	1.32
Rh	103	He	876787.02	0.28
Lu	175	He	452825.70	0.66

Calibration Blank Report

Sample Name	CALBLK 14K05174
File Name	002CALB.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\120214ICPMS8A.b
Acq Time	2014-12-02 16:02:59
Sample Type	CalBlk
Total Dilution	1.0000
Comment	---
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fial	Pass
ISTD QC Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD	Tune Mode	CPS	CPS RSD
B	11	45	No Gas	3665.13	2.08
Na	23	45	He	13563.04	2.41
Mg	24	45	He	123.33	52.75
Al	27	45	He	36.67	62.98
K	39	45	He	4970.93	3.16
Ca	43	45	He	5.67	26.96
V	51	45	He	16.67	69.28
Cr	52	45	He	673.36	10.54
Mn	55	72	He	86.67	35.25
Fe	56	72	He	11948.55	12.02
Co	59	72	He	33.33	34.64
Ni	60	72	He	76.67	74.17
Cu	63	72	He	180.00	36.43
Zn	66	72	He	233.34	6.55
As	75	72	He	4.89	31.52
Se	78	72	He	5.33	10.83
Sr	88	72	He	80.00	25.00
Mo	95	72	He	6.67	86.60
Ag	107	103	He	10.00	0.00
Cd	111	103	He	2.00	100.00
Sn	118	103	He	80.00	76.03
Sb	121	103	He	36.67	15.75
Ba	137	103	He	20.00	50.00
Tl	205	175	He	63.33	9.12
Pb	208	175	He	436.67	13.02
U	238	175	He	73.33	15.75

QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD
Sc (No He)	45	No Gas	1835428.52	0.41
Ge (No He)	72	No Gas	502396.14	0.50
Sc	45	He	18279.22	0.33
Ge	72	He	21108.88	1.45
Rh	103	He	885514.70	0.55

Calibration Blank Report

Name	Mass	Tune Mode	CPS	CPS RSD
Lu	175	He	458198.17	0.70

Calibration Standard Report

Sample Name	STD1 14K05175
File Name	003CALS.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\120214ICPMS8A.b
Acq Time	2014-12-02 16:04:43
Sample Type	CalStd
Total Dilution	1.0000
Comment	---
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fial	Pass
ISTD QC Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD	Tune Mode	CPS	CPS RSD
B	11	45	No Gas	4568.05	3.84
Se	82	72	No Gas	176.96	71.41
Be	9	45	He	16.67	27.06
Na	23	45	He	29175.82	3.19
Mg	24	45	He	7528.70	4.62
Al	27	45	He	160.00	16.54
K	39	45	He	9379.82	2.77
Ca	43	45	He	27.00	9.80
Ti	47	45	He	30.00	88.19
V	51	45	He	1260.08	12.47
Cr	52	45	He	2456.92	14.45
Mn	55	72	He	563.35	13.79
Fe	56	72	He	15291.71	6.03
Co	59	72	He	3867.24	6.61
Ni	60	72	He	1256.74	15.80
Cu	63	72	He	3670.53	6.14
Zn	66	72	He	436.68	10.33
As	75	72	He	198.67	14.72
Se	78	72	He	8.67	29.04
Sr	88	72	He	666.70	10.54
Mo	95	72	He	1220.07	16.37
Ag	107	103	He	5727.97	0.88
Cd	111	103	He	558.01	13.49
Sn	118	103	He	1086.73	12.43
Sb	121	103	He	1240.08	13.78
Ba	137	103	He	336.68	24.91
Tl	205	175	He	13300.24	3.18
Pb	208	175	He	16821.20	3.09
U	238	175	He	17028.22	5.54

QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc (No He)	45	No Gas	1858012.84	0.45	1835428.51666667	101.23	60	120	
Ge (No He)	72	No Gas	506417.35	0.22	502396.14	100.8	60	120	

Calibration Standard Report

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc	45	He	18313.73	1.29	18279.2166666667	100.19	60	120	
Ge	72	He	20937.51	2.36	21108.88	99.19	60	120	
Rh	103	He	893935.59	0.84	885514.7	100.95	60	120	
Lu	175	He	464051.82	0.40	458198.17	101.28	60	120	

Calibration Standard Report

Sample Name	STD2 14K05175
File Name	004CALS.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\120214ICPMS8A.b
Acq Time	2014-12-02 16:06:28
Sample Type	CalStd
Total Dilution	1.0000
Comment	---
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fial	Pass
ISTD QC Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD	Tune Mode	CPS	CPS RSD
B	11	45	No Gas	5398.99	2.51
Se	82	72	No Gas	396.08	20.85
Be	9	45	He	27.67	5.52
Na	23	45	He	44761.16	1.65
Mg	24	45	He	14303.77	4.70
Al	27	45	He	383.35	14.83
K	39	45	He	13656.53	3.83
Ca	43	45	He	36.33	16.59
Ti	47	45	He	73.33	7.87
V	51	45	He	2636.95	11.38
Cr	52	45	He	4290.73	6.26
Mn	55	72	He	1263.41	9.24
Fe	56	72	He	29416.93	4.57
Co	59	72	He	8212.43	1.16
Ni	60	72	He	2413.58	6.84
Cu	63	72	He	6928.47	4.81
Zn	66	72	He	753.37	8.00
As	75	72	He	398.67	11.01
Se	78	72	He	11.33	36.74
Sr	88	72	He	1170.07	12.33
Mo	95	72	He	2853.68	10.26
Ag	107	103	He	11431.51	2.50
Cd	111	103	He	1056.71	8.04
Sn	118	103	He	1973.52	14.16
Sb	121	103	He	2500.28	3.02
Ba	137	103	He	890.04	12.96
Tl	205	175	He	25862.42	0.90
Pb	208	175	He	33157.04	4.67
U	238	175	He	34433.02	5.19

QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc (No He)	45	No Gas	1839966.33	1.12	1835428.51666667	100.25	60	120	
Ge (No He)	72	No Gas	502504.24	1.02	502396.14	100.02	60	120	

Calibration Standard Report

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc	45	He	18482.83	1.02	18279.2166666667	101.11	60	120	
Ge	72	He	20450.18	0.91	21108.88	96.88	60	120	
Rh	103	He	893347.88	0.37	885514.7	100.88	60	120	
Lu	175	He	467890.29	0.35	458198.17	102.12	60	120	

Calibration Standard Report

Sample Name	STD3 14K05175
File Name	005CALS.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\120214ICPMS8A.b
Acq Time	2014-12-02 16:08:12
Sample Type	CalStd
Total Dilution	1.0000
Comment	---
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fial	Pass
ISTD QC Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD	Tune Mode	CPS	CPS RSD
B	11	45	No Gas	12292.40	0.11
Se	82	72	No Gas	2368.99	7.77
Be	9	45	He	142.00	3.07
Na	23	45	He	173078.22	3.75
Mg	24	45	He	72464.18	6.65
Al	27	45	He	1610.12	12.38
K	39	45	He	48764.79	2.16
Ca	43	45	He	159.67	9.71
Ti	47	45	He	233.34	15.05
V	51	45	He	13553.23	9.67
Cr	52	45	He	18575.50	7.52
Mn	55	72	He	5717.89	4.84
Fe	56	72	He	131902.21	8.89
Co	59	72	He	40303.20	4.98
Ni	60	72	He	11838.41	8.46
Cu	63	72	He	35751.51	5.92
Zn	66	72	He	3407.13	4.97
As	75	72	He	1960.14	8.49
Se	78	72	He	60.33	6.70
Sr	88	72	He	6081.41	5.84
Mo	95	72	He	13580.10	5.91
Ag	107	103	He	58057.21	2.38
Cd	111	103	He	5377.72	4.49
Sn	118	103	He	9850.36	8.74
Sb	121	103	He	12312.35	2.77
Ba	137	103	He	3943.97	1.55
Tl	205	175	He	133154.75	2.17
Pb	208	175	He	166268.64	4.01
U	238	175	He	174227.83	7.08

QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc (No He)	45	No Gas	1851237.37	1.48	1835428.51666667	100.86	60	120	
Ge (No He)	72	No Gas	506237.83	0.99	502396.14	100.76	60	120	

Calibration Standard Report

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc	45	He	18938.97	0.28	18279.2166666667	103.61	60	120	
Ge	72	He	20987.57	1.35	21108.88	99.43	60	120	
Rh	103	He	901827.25	0.18	885514.7	101.84	60	120	
Lu	175	He	468017.59	0.09	458198.17	102.14	60	120	

Calibration Standard Report

Sample Name	STD4 14K05175
File Name	006CALS.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\120214ICPMS8A.b
Acq Time	2014-12-02 16:09:56
Sample Type	CalStd
Total Dilution	1.0000
Comment	---
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fial	Pass
ISTD QC Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD	Tune Mode	CPS	CPS RSD
B	11	45	No Gas	47894.92	1.10
Se	82	72	No Gas	12596.28	1.33
Be	9	45	He	732.69	3.50
Na	23	45	He	816459.49	3.66
Mg	24	45	He	360608.13	5.58
Al	27	45	He	8142.40	3.65
K	39	45	He	220358.22	2.33
Ca	43	45	He	780.69	7.95
Ti	47	45	He	1360.08	11.32
V	51	45	He	67751.24	4.43
Cr	52	45	He	90115.58	5.98
Mn	55	72	He	28929.12	6.53
Fe	56	72	He	639579.47	7.18
Co	59	72	He	200339.21	5.54
Ni	60	72	He	59599.94	5.70
Cu	63	72	He	174351.77	5.11
Zn	66	72	He	16129.30	7.36
As	75	72	He	9729.08	4.25
Se	78	72	He	280.33	4.13
Sr	88	72	He	29721.45	2.56
Mo	95	72	He	68137.81	4.36
Ag	107	103	He	288581.48	2.84
Cd	111	103	He	26718.85	5.77
Sn	118	103	He	48665.64	8.27
Sb	121	103	He	59614.96	5.93
Ba	137	103	He	19607.63	6.56
Tl	205	175	He	653609.28	2.22
Pb	208	175	He	829130.61	4.85
U	238	175	He	874460.58	6.32

QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc (No He)	45	No Gas	1855695.81	1.07	1835428.51666667	101.1	60	120	
Ge (No He)	72	No Gas	513737.47	1.00	502396.14	102.26	60	120	

Calibration Standard Report

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc	45	He	18683.08	1.10	18279.2166666667	102.21	60	120	
Ge	72	He	21141.17	0.07	21108.88	100.15	60	120	
Rh	103	He	890230.90	0.51	885514.7	100.53	60	120	
Lu	175	He	466358.77	0.42	458198.17	101.78	60	120	

Calibration Standard Report

Sample Name	STD5 14K05175
File Name	007CALS.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\120214ICPMS8A.b
Acq Time	2014-12-02 16:11:39
Sample Type	CalStd
Total Dilution	1.0000
Comment	---
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fial	Pass
ISTD QC Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD	Tune Mode	CPS	CPS RSD
B	11	45	No Gas	93198.06	1.28
Se	82	72	No Gas	24814.59	1.04
Be	9	45	He	1448.74	6.37
Na	23	45	He	1628251.43	1.98
Mg	24	45	He	717979.49	4.97
Al	27	45	He	15938.87	8.44
K	39	45	He	432464.76	1.85
Ca	43	45	He	1506.75	4.97
Ti	47	45	He	2550.28	6.87
V	51	45	He	136294.76	4.42
Cr	52	45	He	181045.36	5.28
Mn	55	72	He	57119.43	5.89
Fe	56	72	He	1277199.57	6.66
Co	59	72	He	403711.45	4.92
Ni	60	72	He	118645.21	3.72
Cu	63	72	He	347783.81	4.83
Zn	66	72	He	32216.43	5.13
As	75	72	He	19555.55	4.21
Se	78	72	He	579.01	4.30
Sr	88	72	He	58661.71	5.09
Mo	95	72	He	137374.07	4.98
Ag	107	103	He	575578.35	2.87
Cd	111	103	He	53091.62	4.59
Sn	118	103	He	96554.53	7.51
Sb	121	103	He	117964.82	3.65
Ba	137	103	He	39410.16	3.62
Tl	205	175	He	1304504.48	1.15
Pb	208	175	He	1655331.92	3.49
U	238	175	He	1776271.59	5.61

QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc (No He)	45	No Gas	1851814.61	1.14	1835428.51666667	100.89	60	120	
Ge (No He)	72	No Gas	509025.60	0.62	502396.14	101.32	60	120	

Calibration Standard Report

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc	45	He	18857.76	0.77	18279.2166666667	103.17	60	120	
Ge	72	He	20816.25	0.91	21108.88	98.61	60	120	
Rh	103	He	887457.28	0.85	885514.7	100.22	60	120	
Lu	175	He	469369.68	0.25	458198.17	102.44	60	120	

Calibration Standard Report

Sample Name	STD6 14K05175
File Name	008CALS.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\120214ICPMS8A.b
Acq Time	2014-12-02 16:13:21
Sample Type	CalStd
Total Dilution	1.0000
Comment	---
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fial	Pass
ISTD QC Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD	Tune Mode	CPS	CPS RSD
B	11	45	No Gas	178828.80	1.63
Se	82	72	No Gas	48092.28	0.37
Be	9	45	He	2871.61	1.96
Na	23	45	He	3116224.64	2.45
Mg	24	45	He	1417373.31	3.64
Al	27	45	He	30912.74	3.80
K	39	45	He	831852.64	1.25
Ca	43	45	He	2918.96	3.74
Ti	47	45	He	4507.44	8.75
V	51	45	He	264907.48	2.71
Cr	52	45	He	348545.48	4.72
Mn	55	72	He	113646.42	2.25
Fe	56	72	He	2513047.31	5.21
Co	59	72	He	777330.74	3.82
Ni	60	72	He	227335.76	3.45
Cu	63	72	He	675220.47	2.67
Zn	66	72	He	61622.27	3.17
As	75	72	He	38363.14	2.42
Se	78	72	He	1141.05	1.68
Sr	88	72	He	115481.18	3.19
Mo	95	72	He	268779.70	3.20
Ag	107	103	He	951786.37	2.61
Cd	111	103	He	103494.38	2.81
Sn	118	103	He	190313.25	4.53
Sb	121	103	He	225293.97	2.51
Ba	137	103	He	76962.15	2.30
Tl	205	175	He	2652169.70	2.38
Pb	208	175	He	3242025.08	3.40
U	238	175	He	3591881.72	3.63

QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc (No He)	45	No Gas	1866461.22	1.11	1835428.51666667	101.69	60	120	
Ge (No He)	72	No Gas	506455.98	0.35	502396.14	100.81	60	120	

Calibration Standard Report

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc	45	He	18388.27	0.76	18279.2166666667	100.6	60	120	
Ge	72	He	20733.91	0.62	21108.88	98.22	60	120	
Rh	103	He	875385.33	0.64	885514.7	98.86	60	120	
Lu	175	He	466022.99	0.33	458198.17	101.71	60	120	

Initial Calibration Verification (ICV) Report

Sample Name	ICV 14K05178
File Name	009_ICV.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\120214ICPMS8A.b
Acq Time	2014-12-02 16:15:02
Sample Type	ICV
Total Dilution	1.0000
Comment	---
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fial	Fail
ISTD QC Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD	Tune Mode	Conc.	Conc. RSD	CPS	ExpValue	% Rec	%QC Low	%QC High	QC Flag
B	10	45	No Gas	0.107	1.12	20098.80	0.9	11.85	10	10	
B	11	45	No Gas	0.107	0.96	97323.35	0.9	11.92	10	10	
Se	82	72	No Gas	0.104	0.41	25095.92	0.9	11.56	10	10	
Be	9	45	He	0.108	4.52	1572.42	0.9	12.03	10	10	
Na	23	45	He	10.188	2.48	1623252.22	0.9	1131.97	1000	1000	
Mg	24	45	He	10.236	2.72	734359.26	0.9	1137.3	1000	1000	
Al	27	45	He	1.056	3.69	16622.90	0.9	117.38	100	100	
K	39	45	He	10.094	2.29	429680.33	0.9	1121.55	1000	1000	
Ca	43	45	He	10.263	2.50	1527.42	0.9	1140.3	1000	1000	
Ti	47	45	He	0.110	11.47	2576.94	0.9	12.18	10	10	
V	51	45	He	0.104	2.02	139763.22	0.9	11.54	10	10	
Cr	52	45	He	0.107	1.62	190417.44	0.9	11.91	10	10	
Mn	55	72	He	0.105	2.33	59826.83	0.9	11.63	10	10	
Fe	56	72	He	1.039	1.53	1319376.15	0.9	115.45	100	100	
Co	59	72	He	0.105	2.09	413761.09	0.9	11.68	10	10	
Ni	60	72	He	0.105	1.59	120848.69	0.9	11.64	10	10	
Cu	63	72	He	0.105	1.80	357398.86	0.9	11.63	10	10	
Zn	66	72	He	0.104	4.27	32513.71	0.9	11.53	10	10	
As	75	72	He	0.103	1.27	19965.44	0.9	11.47	10	10	
Se	78	72	He	0.104	1.86	598.01	0.9	11.54	10	10	
Sr	88	72	He	0.106	1.82	61496.49	0.9	11.73	10	10	
Mo	95	72	He	0.104	0.92	141271.27	0.9	11.58	10	10	
Ag	107	103	He	0.117	1.21	587629.11	0.9	12.98	10	10	ICV Main CR1 Failed
Cd	111	103	He	0.105	0.42	55249.11	0.9	11.71	10	10	
Sn	118	103	He	0.105	1.58	101287.17	0.9	11.7	10	10	
Sb	121	103	He	0.102	2.54	117433.02	0.9	11.37	10	10	
Ba	137	103	He	0.105	1.81	41065.01	0.9	11.71	10	10	
Tl	205	175	He	0.100	0.65	1343472.90	0.9	11.16	10	10	
Pb	208	175	He	0.104	0.91	1717561.02	0.9	11.57	10	10	
U	238	175	He	0.105	0.54	1895573.46	0.9	11.63	10	10	

QC ISTD Table

Initial Calibration Verification (ICV) Report

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc (No He)	45	No Gas	1849077.63	0.26	1835428.51666667	100.74	60	120	
Ge (No He)	72	No Gas	504840.60	0.52	502396.14	100.49	60	120	
Sc	45	He	18663.06	1.53	18279.2166666667	102.1	60	120	
Ge	72	He	20856.31	2.62	21108.88	98.8	60	120	
Rh	103	He	884220.56	1.66	885514.7	99.85	60	120	
Lu	175	He	472317.75	1.26	458198.17	103.08	60	120	

Initial Calibration Blank (ICB) Report

Sample Name	ICB 14K05174
File Name	010_ICB.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\120214ICPMS8A.b
Acq Time	2014-12-02 16:23:29
Sample Type	ICB
Total Dilution	1.0000
Comment	---
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fial	Pass
ISTD QC Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD	Tune Mode	Conc.	Conc. RSD	CPS	Limit	QC Flag
B	10	45	No Gas	0.000	91.59	805.36	0.015	
B	11	45	No Gas	0.000	122.44	3750.48	0.015	
Se	82	72	No Gas	-0.001	N/A	-183.20	0.00075	
Be	9	45	He	0.000	10755.11	0.33	0.00075	
Na	23	45	He	0.003	18.38	13593.12	0.75	
Mg	24	45	He	0.000	N/A	110.00	0.75	
Al	27	45	He	-0.001	N/A	20.00	0.0375	
K	39	45	He	0.007	82.62	5134.34	0.75	
Ca	43	45	He	0.003	419.41	6.00	0.75	
Ti	47	45	He	0.000	NaN	0.00	0.0075	
V	51	45	He	0.000	5007.50	16.67	0.0015	
Cr	52	45	He	0.000	163.02	703.36	0.00075	
Mn	55	72	He	0.000	N/A	60.00	0.0015	
Fe	56	72	He	0.001	33.86	12352.10	0.0375	
Co	59	72	He	0.000	N/A	30.00	0.00075	
Ni	60	72	He	0.000	113.60	90.00	0.00075	
Cu	63	72	He	0.000	105.62	210.01	0.0015	
Zn	66	72	He	0.000	N/A	186.67	0.0075	
As	75	72	He	0.000	N/A	3.11	0.00075	
Se	78	72	He	0.000	45.71	7.67	0.00075	
Sr	88	72	He	0.000	131.50	113.33	0.0075	
Mo	95	72	He	0.000	31.93	23.33	0.0015	
Ag	107	103	He	0.000	31.09	216.67	0.000375	
Cd	111	103	He	0.000	0.49	6.00	0.000375	
Sn	118	103	He	0.000	134.13	96.67	0.00075	
Sb	121	103	He	0.000	35.95	210.00	0.00075	
Ba	137	103	He	0.000	172.47	43.33	0.0015	
Tl	205	175	He	0.000	52.75	123.33	0.00075	
Pb	208	175	He	0.000	80.25	513.34	0.00075	
U	238	175	He	0.000	138.82	100.00	0.0075	

QC ISTD Table

Initial Calibration Blank (ICB) Report

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc (No He)	45	No Gas	1808108.88	1.20	1835428.51666667	98.51	60	120	
Ge (No He)	72	No Gas	496673.66	0.36	502396.14	98.86	60	120	
Sc	45	He	17810.88	0.65	18279.2166666667	97.44	60	120	
Ge	72	He	20384.47	1.87	21108.88	96.57	60	120	
Rh	103	He	880528.30	0.33	885514.7	99.44	60	120	
Lu	175	He	459803.09	1.20	458198.17	100.35	60	120	

Low Level Initial Calibration Verification(LLICV) Report

Sample Name	LLICV 14K05179
File Name	011LICV.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\120214ICPMS8A.b
Acq Time	2014-12-02 16:25:01
Sample Type	LLICV
Total Dilution	1.0000
Comment	---
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fial	Pass
ISTD QC Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD	Tune Mode	Conc.	Conc. RSD	CPS	ExpValue	% Rec	%QC Low	%QC High	QC Flag
Be	9	45	He	0.001	30.31	14.33	0.001	99.63	70	130	
V	51	45	He	0.002	7.75	2676.97	0.002	101.99	70	130	
Cr	52	45	He	0.001	10.69	2696.96	0.001	118.29	70	130	
Mn	55	72	He	0.002	3.93	1240.08	0.002	105.72	70	130	
Co	59	72	He	0.001	2.68	4110.67	0.001	108.06	70	130	
Ni	60	72	He	0.001	23.78	1283.41	0.001	109.4	70	130	
Cu	63	72	He	0.001	4.97	3700.55	0.001	107.85	70	130	
Zn	66	72	He	0.010	11.04	3223.75	0.01	100.63	70	130	
As	75	72	He	0.001	2.02	201.78	0.001	106.29	70	130	
Se	78	72	He	0.001	20.40	10.67	0.001	102.52	70	130	
Mo	95	72	He	0.002	10.09	2746.98	0.002	105.35	70	130	
Ag	107	103	He	0.001	7.56	2997.04	0.0005	105.23	70	130	
Cd	111	103	He	0.000	6.30	254.67	0.0005	97.32	70	130	
Sn	118	103	He	0.001	7.29	1086.73	0.001	105.89	70	130	
Sb	121	103	He	0.001	3.98	1286.75	0.001	110.08	70	130	
Ba	137	103	He	0.002	14.95	800.04	0.002	101.19	70	130	
Tl	205	175	He	0.001	1.88	12783.07	0.001	100.3	70	130	
Pb	208	175	He	0.001	3.53	16914.61	0.001	105.42	70	130	

QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc (No He)	45	No Gas	1817878.04	2.89	1835428.51666667	99.04	60	120	
Ge (No He)	72	No Gas	491229.35	0.53	502396.14	97.78	60	120	
Sc	45	He	18103.48	1.37	18279.2166666667	99.04	60	120	
Ge	72	He	19998.41	0.98	21108.88	94.74	60	120	
Rh	103	He	875673.79	0.36	885514.7	98.89	60	120	
Lu	175	He	448047.49	0.23	458198.17	97.78	60	120	

Interference Check Solution A (ICS-A) Report

Sample Name	ICSA 14K05180
File Name	012ICSA.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\120214ICPMS8A.b
Acq Time	2014-12-02 16:26:34
Sample Type	ICSA
Total Dilution	1.0000
Comment	---
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fial	Pass
ISTD QC Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD	Tune Mode	Conc.	Conc. RSD	CPS	ExpValue	%QC Low	%QC High	QC Flag
Na	23	45	He	99.139	1.66	14807111.45	0.8	10000	10000	
Mg	24	45	He	98.265	1.57	6658741.15	0.8	10000	10000	
Al	27	45	He	103.769	1.00	1539076.59	0.8	10000	10000	
K	39	45	He	101.445	1.20	4035794.52	0.8	10000	10000	
Ca	43	45	He	92.994	1.53	13029.78	0.8	10000	10000	
Ti	47	45	He	2.028	3.15	45059.90	0.8	200	200	
Fe	56	72	He	98.569	1.45	118979601.56	0.8	10000	10000	
Mo	95	72	He	2.094	2.61	2721883.40	0.8	200	200	

QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc (No He)	45	No Gas	1755193.72	0.71	1835428.51666667	95.63	60	120	
Ge (No He)	72	No Gas	491326.62	0.45	502396.14	97.8	60	120	
Sc	45	He	17627.33	1.24	18279.2166666667	96.43	60	120	
Ge	72	He	20000.63	1.70	21108.88	94.75	60	120	
Rh	103	He	809137.28	0.28	885514.7	91.37	60	120	
Lu	175	He	447464.48	0.21	458198.17	97.66	60	120	

Interference Check Solution AB (ICS-AB) Report

Sample Name	ICSAB 14K05181
File Name	013ICSB.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\120214ICPMS8A.b
Acq Time	2014-12-02 16:31:56
Sample Type	ICSB
Total Dilution	1.0000
Comment	---
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fial	Pass
ISTD QC Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD	Tune Mode	Conc.	Conc. RSD	CPS	ExpValue	%QC Low	%QC High	QC Flag

QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc (No He)	45	No Gas	1755653.78	0.82	1835428.51666667	95.65	60	120	
Ge (No He)	72	No Gas	484799.33	0.55	502396.14	96.5	60	120	
Sc	45	He	17833.22	0.97	18279.2166666667	97.56	60	120	
Ge	72	He	19680.24	0.74	21108.88	93.23	60	120	
Rh	103	He	814129.47	2.16	885514.7	91.94	60	120	
Lu	175	He	430325.50	1.81	458198.17	93.92	60	120	

Continuing Calibration Verification (CCV) Report

Sample Name	CCV 14K05175
File Name	020_CCV.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\120214ICPMS8A.b
Acq Time	2014-12-02 16:44:28
Sample Type	CCV
Total Dilution	1.0000
Comment	---
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fial	Fail
ISTD QC Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD	Tune Mode	Conc.	Conc. RSD	CPS	ExpValue	% Rec	%QC Low	%QC High	QC Flag
B	10	45	No Gas	0.090	2.71	17079.07	0.9	9.97	10	10	CCV Main CR1 Failed
B	11	45	No Gas	0.089	1.41	81737.00	0.9	9.9	10	10	CCV Main CR1 Failed
Se	82	72	No Gas	0.101	1.73	24654.26	0.9	11.2	10	10	
Be	9	45	He	0.101	2.16	1457.40	0.9	11.27	10	10	
Na	23	45	He	10.317	0.59	1626329.77	0.9	1146.35	1000	1000	
Mg	24	45	He	10.227	1.47	725932.04	0.9	1136.3	1000	1000	
Al	27	45	He	1.030	3.24	16028.96	0.9	114.41	100	100	
K	39	45	He	10.229	1.80	430693.04	0.9	1136.52	1000	1000	
Ca	43	45	He	10.408	1.43	1532.41	0.9	1156.5	1000	1000	
Ti	47	45	He	0.106	9.48	2466.93	0.9	11.78	10	10	
V	51	45	He	0.104	1.50	138367.04	0.9	11.55	10	10	
Cr	52	45	He	0.106	1.45	186427.33	0.9	11.79	10	10	
Mn	55	72	He	0.104	0.73	58812.57	0.9	11.5	10	10	
Fe	56	72	He	1.046	0.50	1319193.52	0.9	116.2	100	100	
Co	59	72	He	0.106	0.81	412981.06	0.9	11.73	10	10	
Ni	60	72	He	0.105	1.22	120411.60	0.9	11.68	10	10	
Cu	63	72	He	0.105	1.08	357069.26	0.9	11.7	10	10	
Zn	66	72	He	0.107	2.47	33312.22	0.9	11.89	10	10	
As	75	72	He	0.106	0.47	20297.88	0.9	11.74	10	10	
Se	78	72	He	0.104	8.31	597.01	0.9	11.6	10	10	
Sr	88	72	He	0.106	0.75	61402.97	0.9	11.79	10	10	
Mo	95	72	He	0.105	0.22	141630.59	0.9	11.68	10	10	
Ag	107	103	He	0.101	0.49	585628.73	0.9	11.2	10	10	
Cd	111	103	He	0.102	1.03	54208.38	0.9	11.34	10	10	
Sn	118	103	He	0.101	1.40	98752.25	0.9	11.26	10	10	
Sb	121	103	He	0.103	0.14	119975.23	0.9	11.47	10	10	
Ba	137	103	He	0.102	2.00	40078.66	0.9	11.28	10	10	
Tl	205	175	He	0.100	0.38	1287509.49	0.9	11.07	10	10	
Pb	208	175	He	0.104	0.32	1652711.76	0.9	11.52	10	10	
U	238	175	He	0.100	0.85	1750405.60	0.9	11.11	10	10	

QC ISTD Table

Continuing Calibration Verification (CCV) Report

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc (No He)	45	No Gas	1855194.76	1.86	1835428.51666667	101.08	60	120	
Ge (No He)	72	No Gas	512275.44	0.62	502396.14	101.97	60	120	
Sc	45	He	18461.71	1.06	18279.2166666667	101	60	120	
Ge	72	He	20714.98	0.58	21108.88	98.13	60	120	
Rh	103	He	895944.13	1.07	885514.7	101.18	60	120	
Lu	175	He	456332.81	0.72	458198.17	99.59	60	120	

Continuing Calibration Blank (CCB) Report

Sample Name	CCB 14K05174
File Name	021_CCB.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\120214ICPMS8A.b
Acq Time	2014-12-02 16:46:01
Sample Type	CCB
Total Dilution	1.0000
Comment	---
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fial	Pass
ISTD QC Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD	Tune Mode	Conc.	Conc. RSD	CPS	Limit	QC Flag
B	10	45	No Gas	0.002	26.97	1102.71	0.015	
B	11	45	No Gas	0.003	9.39	5676.42	0.015	
Se	82	72	No Gas	0.000	N/A	-175.81	0.00075	
Be	9	45	He	0.000	0.00	0.00	0.00075	
Na	23	45	He	0.008	48.51	14417.21	0.75	
Mg	24	45	He	0.002	61.02	243.34	0.75	
Al	27	45	He	0.000	N/A	30.00	0.0375	
K	39	45	He	-0.006	N/A	4564.12	0.75	
Ca	43	45	He	0.001	689.32	5.67	0.75	
Ti	47	45	He	0.000	NaN	0.00	0.0075	
V	51	45	He	0.000	84.99	43.33	0.0015	
Cr	52	45	He	0.000	313.08	676.70	0.00075	
Mn	55	72	He	0.000	485.06	90.00	0.0015	
Fe	56	72	He	0.001	33.30	12225.38	0.0375	
Co	59	72	He	0.000	10.68	143.33	0.00075	
Ni	60	72	He	0.000	81.96	120.00	0.00075	
Cu	63	72	He	0.000	59.56	293.35	0.0015	
Zn	66	72	He	0.000	99.27	256.68	0.0075	
As	75	72	He	0.000	577.17	4.89	0.00075	
Se	78	72	He	0.000	4002.32	5.00	0.00075	
Sr	88	72	He	0.000	N/A	73.33	0.0075	
Mo	95	72	He	0.000	94.22	43.33	0.0015	
Ag	107	103	He	0.000	15.44	360.01	0.000375	
Cd	111	103	He	0.000	55.20	9.33	0.000375	
Sn	118	103	He	0.000	75.60	156.67	0.00075	
Sb	121	103	He	0.000	2.48	476.69	0.00075	
Ba	137	103	He	0.000	110.67	33.33	0.0015	
Tl	205	175	He	0.000	28.18	463.35	0.00075	
Pb	208	175	He	0.000	19.12	733.36	0.00075	
U	238	175	He	0.000	7.46	366.68	0.0075	

QC ISTD Table

Continuing Calibration Blank (CCB) Report

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc (No He)	45	No Gas	1780761.33	1.53	1835428.51666667	97.02	60	120	
Ge (No He)	72	No Gas	497025.96	0.97	502396.14	98.93	60	120	
Sc	45	He	17729.67	0.09	18279.2166666667	96.99	60	120	
Ge	72	He	19632.39	0.92	21108.88	93.01	60	120	
Rh	103	He	855795.71	0.97	885514.7	96.64	60	120	
Lu	175	He	435148.56	0.66	458198.17	94.97	60	120	

Sample Report

Sample Name	BLANK WG757513
File Name	022SMPL.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\120214ICPMS8A.b
Acq Time	2014-12-02 16:47:41
Sample Type	Sample
Total Dilution	1.1111
Comment	---
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fial	Pass
ISTD QC Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD	Tune Mode	Conc.	Conc. RSD	CPS	LDR	QC Flag
B	10	45	No Gas	0.001	16.02	864.70	5	
B	11	45	No Gas	0.002	21.85	4245.95	5	
Se	82	72	No Gas	0.000	135.20	29.51	5	
Be	9	45	He	0.000	3492.20	0.33	5	
Na	23	45	He	-0.003	N/A	12068.39	90	
Mg	24	45	He	0.002	38.56	243.34	90	
Al	27	45	He	0.001	124.47	50.00	90	
K	39	45	He	0.009	48.37	4900.90	90	
Ca	43	45	He	0.037	116.18	9.67	90	
Ti	47	45	He	0.001	90.99	16.67	5	
V	51	45	He	0.000	139.13	33.33	5	
Cr	52	45	He	0.000	39.39	1183.40	5	
Mn	55	72	He	0.000	178.65	96.67	5	
Fe	56	72	He	-0.003	N/A	7748.89	90	
Co	59	72	He	0.000	49.31	83.33	5	
Ni	60	72	He	0.000	54.64	183.34	5	
Cu	63	72	He	0.000	16.96	516.68	5	
Zn	66	72	He	0.000	N/A	173.34	5	
As	75	72	He	0.000	N/A	4.00	5	
Se	78	72	He	0.000	597.11	5.00	5	
Sr	88	72	He	0.000	56.42	126.67	5	
Mo	95	72	He	0.000	3.56	20.00	5	
Ag	107	103	He	0.000	43.28	80.00	1	
Cd	111	103	He	0.000	26.74	10.67	5	
Sn	118	103	He	0.000	195.37	100.00	2	
Sb	121	103	He	0.000	39.36	190.00	1	
Ba	137	103	He	0.000	302.52	23.33	2	
Tl	205	175	He	0.000	22.33	320.01	5	
Pb	208	175	He	0.000	21.36	950.03	5	
U	238	175	He	0.000	44.08	166.67	5	

QC ISTD Table

Sample Report

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc (No He)	45	No Gas	1610047.84	1.41	1835428.51666667	87.72	60	120	
Ge (No He)	72	No Gas	440719.04	1.31	502396.14	87.72	60	120	
Sc	45	He	16848.62	2.81	18279.2166666667	92.17	60	120	
Ge	72	He	18634.36	2.55	21108.88	88.28	60	120	
Rh	103	He	809945.43	0.96	885514.7	91.47	60	120	
Lu	175	He	411349.62	1.12	458198.17	89.78	60	120	

Sample Report

Sample Name	LCS WG757513
File Name	023SMPL.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\120214ICPMS8A.b
Acq Time	2014-12-02 16:49:13
Sample Type	Sample
Total Dilution	1.1111
Comment	---
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fial	Pass
ISTD QC Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD	Tune Mode	Conc.	Conc. RSD	CPS	LDR	QC Flag
B	10	45	No Gas	0.049	2.60	8020.84	5	
B	11	45	No Gas	0.048	1.20	38088.29	5	
Se	82	72	No Gas	0.049	2.08	9579.37	5	
Be	9	45	He	0.047	3.48	585.01	5	
Na	23	45	He	0.509	4.04	81268.57	90	
Mg	24	45	He	0.511	5.60	31240.05	90	
Al	27	45	He	0.051	6.36	713.36	90	
K	39	45	He	0.525	5.23	23525.98	90	
Ca	43	45	He	0.981	17.54	128.67	90	
Ti	47	45	He	0.049	4.94	980.05	5	
V	51	45	He	0.054	2.61	61413.07	5	
Cr	52	45	He	0.053	2.90	80492.29	5	
Mn	55	72	He	0.054	3.63	25940.23	5	
Fe	56	72	He	0.047	0.92	60272.20	90	
Co	59	72	He	0.054	0.33	178574.68	5	
Ni	60	72	He	0.053	1.77	51642.53	5	
Cu	63	72	He	0.054	1.08	155083.06	5	
Zn	66	72	He	0.050	3.19	13236.28	5	
As	75	72	He	0.047	0.92	7686.07	5	
Se	78	72	He	0.051	4.62	248.00	5	
Sr	88	72	He	0.053	2.33	26207.92	5	
Mo	95	72	He	0.053	1.06	60020.86	5	
Ag	107	103	He	0.049	1.90	236735.97	1	
Cd	111	103	He	0.052	0.58	22735.10	5	
Sn	118	103	He	0.052	0.43	42007.19	2	
Sb	121	103	He	0.055	0.58	53446.13	1	
Ba	137	103	He	0.051	4.19	16707.06	2	
Tl	205	175	He	0.051	0.58	546989.59	5	
Pb	208	175	He	0.053	0.61	701713.04	5	
U	238	175	He	0.000	N/A	20.00	5	

QC ISTD Table

Sample Report

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc (No He)	45	No Gas	1690576.22	1.12	1835428.51666667	92.11	60	120	
Ge (No He)	72	No Gas	454254.17	1.21	502396.14	90.42	60	120	
Sc	45	He	17602.88	2.33	18279.2166666667	96.3	60	120	
Ge	72	He	19466.57	1.16	21108.88	92.22	60	120	
Rh	103	He	826127.33	0.94	885514.7	93.29	60	120	
Lu	175	He	423861.27	1.06	458198.17	92.51	60	120	

Sample Report

Sample Name	LCSD WG757513
File Name	024SMPL.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\120214ICPMS8A.b
Acq Time	2014-12-02 16:50:47
Sample Type	Sample
Total Dilution	1.1111
Comment	---
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fial	Pass
ISTD QC Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD	Tune Mode	Conc.	Conc. RSD	CPS	LDR	QC Flag
B	10	45	No Gas	0.050	2.19	8189.59	5	
B	11	45	No Gas	0.050	2.97	39250.59	5	
Se	82	72	No Gas	0.049	2.15	9558.76	5	
Be	9	45	He	0.048	3.94	603.01	5	
Na	23	45	He	0.498	1.91	80739.08	90	
Mg	24	45	He	0.497	1.09	30752.29	90	
Al	27	45	He	0.052	18.11	736.70	90	
K	39	45	He	0.514	2.31	23395.67	90	
Ca	43	45	He	0.971	6.83	129.00	90	
Ti	47	45	He	0.048	7.85	963.38	5	
V	51	45	He	0.054	1.05	61895.17	5	
Cr	52	45	He	0.052	1.95	80049.91	5	
Mn	55	72	He	0.053	1.06	25639.54	5	
Fe	56	72	He	0.052	3.95	66790.48	90	
Co	59	72	He	0.053	1.12	177930.06	5	
Ni	60	72	He	0.053	1.52	52131.05	5	
Cu	63	72	He	0.054	1.00	155062.64	5	
Zn	66	72	He	0.051	2.20	13656.68	5	
As	75	72	He	0.048	1.50	7912.41	5	
Se	78	72	He	0.050	4.96	244.33	5	
Sr	88	72	He	0.053	3.14	26017.49	5	
Mo	95	72	He	0.052	1.13	59612.68	5	
Ag	107	103	He	0.049	1.40	237684.16	1	
Cd	111	103	He	0.051	0.50	22619.60	5	
Sn	118	103	He	0.052	0.83	42451.80	2	
Sb	121	103	He	0.055	2.07	53422.90	1	
Ba	137	103	He	0.051	1.86	16720.40	2	
Tl	205	175	He	0.050	0.97	542172.83	5	
Pb	208	175	He	0.052	1.82	693344.91	5	
U	238	175	He	0.000	N/A	16.67	5	

QC ISTD Table

Sample Report

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc (No He)	45	No Gas	1685975.60	1.30	1835428.51666667	91.86	60	120	
Ge (No He)	72	No Gas	458498.83	0.62	502396.14	91.26	60	120	
Sc	45	He	17803.13	1.70	18279.2166666667	97.4	60	120	
Ge	72	He	19620.12	1.39	21108.88	92.95	60	120	
Rh	103	He	831461.68	0.57	885514.7	93.9	60	120	
Lu	175	He	428247.35	1.56	458198.17	93.46	60	120	

Sample Report

Sample Name	L735181-05 WG757513
File Name	025SMPL.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\120214ICPMS8A.b
Acq Time	2014-12-02 16:52:19
Sample Type	Sample
Total Dilution	5.5556
Comment	---
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fial	Fail
ISTD QC Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD	Tune Mode	Conc.	Conc. RSD	CPS	LDR	QC Flag
B	10	45	No Gas	0.384	0.88	12783.47	5	
B	11	45	No Gas	0.384	1.50	61685.72	5	
Se	82	72	No Gas	0.006	109.20	174.18	5	
Be	9	45	He	0.000	151.10	1.00	5	
Na	23	45	He	3382.010	1.39	94575481.93	90	>LDR
Mg	24	45	He	702.145	0.54	8915612.58	90	>LDR
Al	27	45	He	1.963	4.67	5491.16	90	
K	39	45	He	21.942	2.31	168327.96	90	
Ca	43	45	He	921.150	0.38	24179.55	90	>LDR
Ti	47	45	He	0.055	12.50	226.68	5	
V	51	45	He	0.027	2.50	6384.84	5	
Cr	52	45	He	0.003	23.09	1713.47	5	
Mn	55	72	He	0.733	0.53	71161.10	5	
Fe	56	72	He	1.884	0.75	413982.53	90	
Co	59	72	He	0.004	7.46	2656.96	5	
Ni	60	72	He	0.009	10.97	1836.83	5	
Cu	63	72	He	0.002	6.08	1576.79	5	
Zn	66	72	He	0.010	29.49	753.37	5	
As	75	72	He	0.018	8.59	592.90	5	
Se	78	72	He	0.002	119.38	6.67	5	
Sr	88	72	He	19.100	1.89	1887836.43	5	
Mo	95	72	He	0.021	6.03	4834.25	5	
Ag	107	103	He	0.001	29.72	723.37	1	
Cd	111	103	He	0.000	25.14	24.67	5	
Sn	118	103	He	0.001	29.41	190.00	2	
Sb	121	103	He	0.002	9.11	363.34	1	
Ba	137	103	He	0.086	4.63	5387.82	2	
Tl	205	175	He	0.000	14.36	740.04	5	
Pb	208	175	He	0.001	2.62	3596.94	5	
U	238	175	He	0.025	2.10	72506.89	5	

QC ISTD Table

Sample Report

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc (No He)	45	No Gas	1780136.90	1.04	1835428.51666667	96.99	60	120	
Ge (No He)	72	No Gas	474565.14	0.58	502396.14	94.46	60	120	
Sc	45	He	18349.33	1.75	18279.2166666667	100.38	60	120	
Ge	72	He	19683.57	1.12	21108.88	93.25	60	120	
Rh	103	He	791058.51	0.60	885514.7	89.33	60	120	
Lu	175	He	413101.48	0.93	458198.17	90.16	60	120	

Sample Report

Sample Name	SD L735181-05 WG757513
File Name	026SMPL.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\120214ICPMS8A.b
Acq Time	2014-12-02 16:53:51
Sample Type	Sample
Total Dilution	27.7778
Comment	---
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fial	Fail
ISTD QC Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD	Tune Mode	Conc.	Conc. RSD	CPS	LDR	QC Flag
B	10	45	No Gas	0.375	3.93	3165.68	5	
B	11	45	No Gas	0.359	0.87	14808.66	5	
Se	82	72	No Gas	0.001	1618.37	-49.33	5	
Be	9	45	He	0.001	178.92	0.67	5	
Na	23	45	He	3119.028	1.52	17895921.40	90	>LDR
Mg	24	45	He	673.616	0.48	1753961.28	90	
Al	27	45	He	1.847	8.88	1090.06	90	
K	39	45	He	19.798	2.56	35336.29	90	
Ca	43	45	He	840.131	3.35	4525.37	90	
Ti	47	45	He	0.047	67.35	40.00	5	
V	51	45	He	0.025	4.77	1223.41	5	
Cr	52	45	He	0.002	49.24	843.37	5	
Mn	55	72	He	0.680	3.45	13823.52	5	
Fe	56	72	He	2.037	2.43	102366.08	90	
Co	59	72	He	0.003	19.05	480.01	5	
Ni	60	72	He	0.010	21.82	466.68	5	
Cu	63	72	He	0.001	40.90	326.68	5	
Zn	66	72	He	-0.004	N/A	186.67	5	
As	75	72	He	0.016	8.71	115.11	5	
Se	78	72	He	-0.004	N/A	4.33	5	
Sr	88	72	He	16.623	0.81	342430.70	5	
Mo	95	72	He	0.017	13.61	810.04	5	
Ag	107	103	He	0.001	47.67	213.34	1	
Cd	111	103	He	0.000	89.24	5.33	5	
Sn	118	103	He	0.001	36.47	116.67	2	
Sb	121	103	He	0.004	24.57	180.00	1	
Ba	137	103	He	0.074	15.35	1016.72	2	
Tl	205	175	He	0.000	28.45	220.01	5	
Pb	208	175	He	0.001	29.38	903.36	5	
U	238	175	He	0.023	2.44	13777.62	5	

QC ISTD Table

Sample Report

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc (No He)	45	No Gas	1826686.90	0.34	1835428.51666667	99.52	60	120	
Ge (No He)	72	No Gas	497830.94	1.28	502396.14	99.09	60	120	
Sc	45	He	18812.14	1.33	18279.2166666667	102.92	60	120	
Ge	72	He	20505.81	0.45	21108.88	97.14	60	120	
Rh	103	He	850009.65	0.63	885514.7	95.99	60	120	
Lu	175	He	429999.75	0.26	458198.17	93.85	60	120	

Sample Report

Sample Name	MS L735181-05 WG757513
File Name	027SMPL.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\120214ICPMS8A.b
Acq Time	2014-12-02 16:55:23
Sample Type	Sample
Total Dilution	5.5556
Comment	---
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fial	Fail
ISTD QC Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD	Tune Mode	Conc.	Conc. RSD	CPS	LDR	QC Flag
B	10	45	No Gas	0.412	2.75	12977.63	5	
B	11	45	No Gas	0.412	0.52	62395.99	5	
Se	82	72	No Gas	0.047	12.98	1773.49	5	
Be	9	45	He	0.050	5.23	122.67	5	
Na	23	45	He	3258.849	1.41	86097035.38	90	>LDR
Mg	24	45	He	686.632	1.07	8236240.50	90	>LDR
Al	27	45	He	2.038	6.50	5387.80	90	
K	39	45	He	21.576	1.27	156475.48	90	
Ca	43	45	He	887.416	0.37	22005.83	90	>LDR
Ti	47	45	He	0.100	8.03	393.34	5	
V	51	45	He	0.078	1.05	17490.81	5	
Cr	52	45	He	0.052	4.41	16032.45	5	
Mn	55	72	He	0.754	2.26	69081.20	5	
Fe	56	72	He	2.241	2.33	462493.54	90	
Co	59	72	He	0.056	1.13	35363.57	5	
Ni	60	72	He	0.056	4.93	10397.23	5	
Cu	63	72	He	0.052	1.98	28658.88	5	
Zn	66	72	He	0.055	12.82	2940.35	5	
As	75	72	He	0.070	4.23	2163.73	5	
Se	78	72	He	0.048	23.87	49.00	5	
Sr	88	72	He	18.216	0.73	1698956.33	5	
Mo	95	72	He	0.069	1.78	15038.22	5	
Ag	107	103	He	0.049	1.62	42742.12	1	
Cd	111	103	He	0.050	1.61	4035.93	5	
Sn	118	103	He	0.051	3.65	7535.52	2	
Sb	121	103	He	0.054	3.30	9450.03	1	
Ba	137	103	He	0.136	5.17	8142.58	2	
Tl	205	175	He	0.047	2.31	94682.74	5	
Pb	208	175	He	0.049	0.99	121227.91	5	
U	238	175	He	0.025	1.06	67050.66	5	

QC ISTD Table

Sample Report

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc (No He)	45	No Gas	1687273.47	0.66	1835428.51666667	91.93	60	120	
Ge (No He)	72	No Gas	446943.60	0.80	502396.14	88.96	60	120	
Sc	45	He	17333.68	0.59	18279.2166666667	94.83	60	120	
Ge	72	He	18573.15	2.51	21108.88	87.99	60	120	
Rh	103	He	753791.63	0.48	885514.7	85.12	60	120	
Lu	175	He	395029.84	1.13	458198.17	86.21	60	120	

Sample Report

Sample Name	MSD L735181-05 WG757513
File Name	028SMPL.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\120214ICPMS8A.b
Acq Time	2014-12-02 16:56:55
Sample Type	Sample
Total Dilution	5.5556
Comment	---
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fial	Fail
ISTD QC Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD	Tune Mode	Conc.	Conc. RSD	CPS	LDR	QC Flag
B	10	45	No Gas	0.428	0.32	13363.30	5	
B	11	45	No Gas	0.432	1.55	65074.63	5	
Se	82	72	No Gas	0.055	10.57	2063.26	5	
Be	9	45	He	0.042	12.84	103.33	5	
Na	23	45	He	3379.038	1.53	89719441.99	90	>LDR
Mg	24	45	He	705.611	1.63	8506078.21	90	>LDR
Al	27	45	He	1.920	7.49	5097.64	90	
K	39	45	He	21.973	1.86	160056.53	90	
Ca	43	45	He	909.340	2.30	22657.46	90	>LDR
Ti	47	45	He	0.107	10.25	423.35	5	
V	51	45	He	0.080	6.11	18054.80	5	
Cr	52	45	He	0.052	2.24	16059.15	5	
Mn	55	72	He	0.761	0.76	71458.90	5	
Fe	56	72	He	1.958	1.42	415758.76	90	
Co	59	72	He	0.056	2.51	36576.67	5	
Ni	60	72	He	0.056	4.17	10594.05	5	
Cu	63	72	He	0.053	1.38	29864.49	5	
Zn	66	72	He	0.055	6.80	3033.71	5	
As	75	72	He	0.071	2.61	2251.29	5	
Se	78	72	He	0.055	10.04	56.33	5	
Sr	88	72	He	18.270	0.98	1747072.37	5	
Mo	95	72	He	0.069	0.34	15495.38	5	
Ag	107	103	He	0.049	0.35	43089.85	1	
Cd	111	103	He	0.051	2.25	4113.28	5	
Sn	118	103	He	0.055	3.23	8215.90	2	
Sb	121	103	He	0.056	2.70	9877.00	1	
Ba	137	103	He	0.134	5.77	8049.20	2	
Tl	205	175	He	0.047	0.54	94088.16	5	
Pb	208	175	He	0.050	1.08	122468.83	5	
U	238	175	He	0.025	1.07	66675.22	5	

QC ISTD Table

Sample Report

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc (No He)	45	No Gas	1679288.05	0.27	1835428.51666667	91.49	60	120	
Ge (No He)	72	No Gas	445963.16	0.23	502396.14	88.77	60	120	
Sc	45	He	17424.88	2.99	18279.2166666667	95.33	60	120	
Ge	72	He	19042.68	1.52	21108.88	90.21	60	120	
Rh	103	He	753560.28	0.72	885514.7	85.1	60	120	
Lu	175	He	392212.63	0.66	458198.17	85.6	60	120	

Sample Report

Sample Name	L734231-16 WG757513
File Name	029SMPL.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\120214ICPMS8A.b
Acq Time	2014-12-02 16:58:27
Sample Type	Sample
Total Dilution	5.5556
Comment	---
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fial	Fail
ISTD QC Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD	Tune Mode	Conc.	Conc. RSD	CPS	LDR	QC Flag
B	10	45	No Gas	1.412	1.21	43228.18	5	
B	11	45	No Gas	1.415	1.78	208591.49	5	
Se	82	72	No Gas	0.006	40.93	177.40	5	
Be	9	45	He	0.003	11.30	6.67	5	
Na	23	45	He	1599.516	2.44	41947139.38	90	>LDR
Mg	24	45	He	767.915	1.91	9142728.40	90	>LDR
Al	27	45	He	20.290	1.52	52921.72	90	
K	39	45	He	99.856	1.78	701862.26	90	
Ca	43	45	He	2573.296	2.19	63320.97	90	>LDR
Ti	47	45	He	0.532	8.07	2076.85	5	
V	51	45	He	0.060	3.38	13396.42	5	
Cr	52	45	He	0.025	3.71	7898.97	5	
Mn	55	72	He	1.019	1.08	93332.36	5	
Fe	56	72	He	24.420	1.49	4935600.97	90	
Co	59	72	He	0.013	2.20	8199.12	5	
Ni	60	72	He	0.019	7.44	3660.52	5	
Cu	63	72	He	0.025	3.54	14080.44	5	
Zn	66	72	He	0.074	4.03	3920.61	5	
As	75	72	He	0.012	0.37	368.01	5	
Se	78	72	He	0.011	37.03	15.00	5	
Sr	88	72	He	50.938	1.05	4749242.74	5	>LDR
Mo	95	72	He	0.314	3.53	68164.21	5	
Ag	107	103	He	0.000	33.21	236.67	1	
Cd	111	103	He	0.000	28.81	29.33	5	
Sn	118	103	He	0.002	18.36	393.35	2	
Sb	121	103	He	0.002	14.24	303.34	1	
Ba	137	103	He	1.023	1.93	59679.77	2	
Tl	205	175	He	0.001	1.20	1066.73	5	
Pb	208	175	He	0.021	2.21	49958.42	5	
U	238	175	He	0.056	0.77	144232.33	5	

QC ISTD Table

Sample Report

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc (No He)	45	No Gas	1705789.56	1.17	1835428.51666667	92.94	60	120	
Ge (No He)	72	No Gas	441502.47	1.99	502396.14	87.88	60	120	
Sc	45	He	17209.08	2.31	18279.2166666667	94.15	60	120	
Ge	72	He	18567.59	1.61	21108.88	87.96	60	120	
Rh	103	He	736054.31	0.47	885514.7	83.12	60	120	
Lu	175	He	375577.45	0.39	458198.17	81.97	60	120	

Sample Report

Sample Name	L734231-19 WG757513
File Name	030SMPL.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\120214ICPMS8A.b
Acq Time	2014-12-02 16:59:58
Sample Type	Sample
Total Dilution	5.5556
Comment	---
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fial	Fail
ISTD QC Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD	Tune Mode	Conc.	Conc. RSD	CPS	LDR	QC Flag
B	10	45	No Gas	1.817	1.91	53911.88	5	
B	11	45	No Gas	1.807	1.73	258126.30	5	
Se	82	72	No Gas	0.000	905.17	-42.34	5	
Be	9	45	He	0.000	252.69	1.00	5	
Na	23	45	He	3490.914	0.68	91148511.98	90	>LDR
Mg	24	45	He	878.591	1.55	10414811.09	90	>LDR
Al	27	45	He	6.184	3.13	16082.43	90	
K	39	45	He	202.464	2.26	1411912.22	90	
Ca	43	45	He	1772.313	1.91	43423.39	90	>LDR
Ti	47	45	He	0.190	8.41	736.70	5	
V	51	45	He	0.024	3.90	5287.72	5	
Cr	52	45	He	0.008	0.92	3047.04	5	
Mn	55	72	He	0.884	0.84	81122.93	5	
Fe	56	72	He	7.771	2.35	1581079.87	90	
Co	59	72	He	0.005	9.81	3190.41	5	
Ni	60	72	He	0.010	3.16	1920.16	5	
Cu	63	72	He	0.009	2.34	4964.28	5	
Zn	66	72	He	0.020	13.69	1216.74	5	
As	75	72	He	0.005	3.59	161.33	5	
Se	78	72	He	0.005	92.18	9.67	5	
Sr	88	72	He	32.978	2.77	3080550.27	5	>LDR
Mo	95	72	He	0.542	1.25	118127.39	5	
Ag	107	103	He	0.000	31.11	153.34	1	
Cd	111	103	He	0.000	74.25	14.00	5	
Sn	118	103	He	0.001	40.07	203.34	2	
Sb	121	103	He	0.002	13.74	333.34	1	
Ba	137	103	He	0.307	3.77	17775.08	2	
Tl	205	175	He	0.000	8.76	316.68	5	
Pb	208	175	He	0.005	2.80	13169.60	5	
U	238	175	He	0.051	1.73	132276.20	5	

QC ISTD Table

Sample Report

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc (No He)	45	No Gas	1659283.83	0.35	1835428.51666667	90.4	60	120	
Ge (No He)	72	No Gas	436391.39	0.77	502396.14	86.86	60	120	
Sc	45	He	17131.20	1.19	18279.2166666667	93.72	60	120	
Ge	72	He	18606.56	1.71	21108.88	88.15	60	120	
Rh	103	He	730475.22	0.03	885514.7	82.49	60	120	
Lu	175	He	373555.03	1.50	458198.17	81.53	60	120	

Sample Report

Sample Name	L734231-20 WG757513
File Name	031SMPL.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\120214ICPMS8A.b
Acq Time	2014-12-02 17:01:28
Sample Type	Sample
Total Dilution	5.5556
Comment	---
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fial	Fail
ISTD QC Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD	Tune Mode	Conc.	Conc. RSD	CPS	LDR	QC Flag
B	10	45	No Gas	2.208	2.73	65031.68	5	
B	11	45	No Gas	2.196	2.73	311360.26	5	
Se	82	72	No Gas	0.004	53.92	100.36	5	
Be	9	45	He	0.002	41.93	5.00	5	
Na	23	45	He	4191.276	0.81	108454688.38	90	>LDR
Mg	24	45	He	1344.568	0.88	15797235.60	90	>LDR
Al	27	45	He	23.012	2.18	59208.74	90	
K	39	45	He	222.442	0.16	1537125.91	90	
Ca	43	45	He	3154.944	0.92	76610.04	90	>LDR
Ti	47	45	He	0.525	11.14	2023.50	5	
V	51	45	He	0.122	1.04	26978.64	5	
Cr	52	45	He	0.032	4.16	10023.61	5	
Mn	55	72	He	1.968	1.19	175633.56	5	
Fe	56	72	He	31.090	2.05	6122879.70	90	
Co	59	72	He	0.020	2.52	12562.30	5	
Ni	60	72	He	0.027	0.99	4997.61	5	
Cu	63	72	He	0.019	5.52	10450.63	5	
Zn	66	72	He	0.100	6.01	5054.31	5	
As	75	72	He	0.013	4.36	400.45	5	
Se	78	72	He	0.013	21.05	16.33	5	
Sr	88	72	He	58.257	1.10	5295518.67	5	>LDR
Mo	95	72	He	0.339	3.32	71899.36	5	
Ag	107	103	He	0.000	52.07	116.67	1	
Cd	111	103	He	0.001	18.46	67.33	5	
Sn	118	103	He	0.002	16.14	316.68	2	
Sb	121	103	He	0.001	25.37	210.00	1	
Ba	137	103	He	0.697	2.63	39196.32	2	
Tl	205	175	He	0.001	19.30	960.05	5	
Pb	208	175	He	0.024	2.70	54231.28	5	
U	238	175	He	0.095	0.64	234488.88	5	

QC ISTD Table

Sample Report

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc (No He)	45	No Gas	1651051.28	2.70	1835428.51666667	89.95	60	120	
Ge (No He)	72	No Gas	423738.98	0.93	502396.14	84.34	60	120	
Sc	45	He	16977.70	0.87	18279.2166666667	92.88	60	120	
Ge	72	He	18102.59	1.81	21108.88	85.76	60	120	
Rh	103	He	709331.60	0.24	885514.7	80.1	60	120	
Lu	175	He	357027.19	0.99	458198.17	77.92	60	120	

Sample Report

Sample Name	L734231-24 WG757513
File Name	032SMPL.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\120214ICPMS8A.b
Acq Time	2014-12-02 17:03:24
Sample Type	Sample
Total Dilution	5.5556
Comment	---
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fial	Fail
ISTD QC Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD	Tune Mode	Conc.	Conc. RSD	CPS	LDR	QC Flag
B	10	45	No Gas	0.778	0.74	22753.23	5	
B	11	45	No Gas	0.764	0.36	107656.19	5	
Se	82	72	No Gas	0.005	88.45	146.37	5	
Be	9	45	He	0.000	144.43	1.00	5	
Na	23	45	He	740.432	1.84	18491034.73	90	>LDR
Mg	24	45	He	278.561	2.24	3156675.58	90	
Al	27	45	He	6.220	2.36	15461.66	90	
K	39	45	He	73.840	2.11	495142.57	90	
Ca	43	45	He	1470.847	1.60	34455.35	90	>LDR
Ti	47	45	He	0.184	3.65	683.37	5	
V	51	45	He	0.027	3.78	5647.87	5	
Cr	52	45	He	0.008	8.46	2743.65	5	
Mn	55	72	He	0.350	3.01	31644.85	5	
Fe	56	72	He	7.939	1.94	1590317.22	90	
Co	59	72	He	0.006	7.71	3680.53	5	
Ni	60	72	He	0.008	4.51	1500.10	5	
Cu	63	72	He	0.010	2.60	5484.47	5	
Zn	66	72	He	0.030	2.23	1686.79	5	
As	75	72	He	0.007	8.86	215.56	5	
Se	78	72	He	0.006	60.96	10.00	5	
Sr	88	72	He	25.348	2.85	2331486.63	5	
Mo	95	72	He	0.319	3.15	68318.41	5	
Ag	107	103	He	0.000	69.39	66.67	1	
Cd	111	103	He	0.000	105.73	19.33	5	
Sn	118	103	He	0.001	27.46	180.00	2	
Sb	121	103	He	0.001	30.51	250.01	1	
Ba	137	103	He	0.356	1.97	20942.93	2	
Tl	205	175	He	0.000	14.03	436.68	5	
Pb	208	175	He	0.007	3.03	17174.83	5	
U	238	175	He	0.023	0.99	58134.25	5	

QC ISTD Table

Sample Report

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc (No He)	45	No Gas	1608917.84	1.02	1835428.51666667	87.66	60	120	
Ge (No He)	72	No Gas	433343.03	0.26	502396.14	86.26	60	120	
Sc	45	He	16380.32	2.37	18279.2166666667	89.61	60	120	
Ge	72	He	18323.94	2.87	21108.88	86.81	60	120	
Rh	103	He	741533.77	0.61	885514.7	83.74	60	120	
Lu	175	He	367904.23	1.30	458198.17	80.29	60	120	

Sample Report

Sample Name	L734810-03 WG757513
File Name	033SMPL.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\120214ICPMS8A.b
Acq Time	2014-12-02 17:04:56
Sample Type	Sample
Total Dilution	5.5556
Comment	---
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fial	Fail
ISTD QC Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD	Tune Mode	Conc.	Conc. RSD	CPS	LDR	QC Flag
B	10	45	No Gas	0.196	1.12	6471.41	5	
B	11	45	No Gas	0.194	0.62	30957.28	5	
Se	82	72	No Gas	0.015	2.16	528.68	5	
Be	9	45	He	0.001	48.27	2.67	5	
Na	23	45	He	1354.593	1.34	34469396.16	90	>LDR
Mg	24	45	He	352.198	0.66	4068706.61	90	
Al	27	45	He	10.936	2.88	27686.28	90	
K	39	45	He	11.576	1.98	82964.46	90	
Ca	43	45	He	1160.075	0.99	27699.42	90	>LDR
Ti	47	45	He	0.173	8.70	653.36	5	
V	51	45	He	0.019	4.31	4173.98	5	
Cr	52	45	He	0.017	12.17	5367.75	5	
Mn	55	72	He	0.597	3.54	54653.42	5	
Fe	56	72	He	12.071	3.22	2442195.59	90	
Co	59	72	He	0.008	2.13	4824.25	5	
Ni	60	72	He	0.016	4.82	3050.38	5	
Cu	63	72	He	0.011	6.33	6321.51	5	
Zn	66	72	He	0.069	10.25	3633.85	5	
As	75	72	He	0.004	14.33	128.89	5	
Se	78	72	He	0.016	42.61	19.00	5	
Sr	88	72	He	19.783	1.94	1842599.30	5	
Mo	95	72	He	0.020	0.83	4427.46	5	
Ag	107	103	He	0.000	22.74	76.67	1	
Cd	111	103	He	0.000	33.30	24.67	5	
Sn	118	103	He	0.001	61.67	226.67	2	
Sb	121	103	He	0.000	24.49	116.67	1	
Ba	137	103	He	0.248	1.71	15065.15	2	
Tl	205	175	He	0.000	16.35	423.35	5	
Pb	208	175	He	0.008	1.89	19846.31	5	
U	238	175	He	0.006	1.24	15476.21	5	

QC ISTD Table

Sample Report

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc (No He)	45	No Gas	1671383.83	0.93	1835428.51666667	91.06	60	120	
Ge (No He)	72	No Gas	446229.71	1.08	502396.14	88.82	60	120	
Sc	45	He	16692.90	1.25	18279.2166666667	91.32	60	120	
Ge	72	He	18553.17	2.70	21108.88	87.89	60	120	
Rh	103	He	765766.08	0.41	885514.7	86.48	60	120	
Lu	175	He	386474.42	0.88	458198.17	84.35	60	120	

Sample Report

Sample Name	L734810-05 WG757513
File Name	034SMPL.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\120214ICPMS8A.b
Acq Time	2014-12-02 17:06:25
Sample Type	Sample
Total Dilution	5.5556
Comment	---
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fial	Fail
ISTD QC Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD	Tune Mode	Conc.	Conc. RSD	CPS	LDR	QC Flag
B	10	45	No Gas	0.195	2.21	6565.46	5	
B	11	45	No Gas	0.196	1.87	31825.71	5	
Se	82	72	No Gas	0.014	7.74	480.94	5	
Be	9	45	He	0.001	62.33	3.67	5	
Na	23	45	He	1616.387	0.47	41586131.88	90	>LDR
Mg	24	45	He	445.906	0.93	5207723.26	90	
Al	27	45	He	18.778	1.65	48031.73	90	
K	39	45	He	10.994	1.38	79880.12	90	
Ca	43	45	He	1264.615	0.48	30529.68	90	>LDR
Ti	47	45	He	0.286	8.10	1096.73	5	
V	51	45	He	0.072	1.77	15815.49	5	
Cr	52	45	He	0.041	1.90	12295.39	5	
Mn	55	72	He	0.651	1.40	61011.78	5	
Fe	56	72	He	23.813	0.92	4926458.78	90	
Co	59	72	He	0.012	3.06	8062.38	5	
Ni	60	72	He	0.028	4.81	5387.78	5	
Cu	63	72	He	0.020	1.69	11227.92	5	
Zn	66	72	He	0.089	2.27	4777.56	5	
As	75	72	He	0.007	10.69	211.11	5	
Se	78	72	He	0.026	33.48	29.33	5	
Sr	88	72	He	19.114	0.75	1824091.12	5	
Mo	95	72	He	0.015	4.38	3240.44	5	
Ag	107	103	He	0.000	7.35	386.68	1	
Cd	111	103	He	0.001	38.11	48.00	5	
Sn	118	103	He	0.002	28.83	303.34	2	
Sb	121	103	He	0.001	32.03	206.67	1	
Ba	137	103	He	0.325	4.28	19734.49	2	
Tl	205	175	He	0.001	4.90	1106.74	5	
Pb	208	175	He	0.020	1.48	50325.10	5	
U	238	175	He	0.007	0.86	19328.06	5	

QC ISTD Table

Sample Report

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc (No He)	45	No Gas	1708694.66	0.70	1835428.51666667	93.1	60	120	
Ge (No He)	72	No Gas	451594.32	0.39	502396.14	89.89	60	120	
Sc	45	He	16876.45	0.43	18279.2166666667	92.33	60	120	
Ge	72	He	19002.63	0.55	21108.88	90.02	60	120	
Rh	103	He	764483.09	0.73	885514.7	86.33	60	120	
Lu	175	He	392638.07	0.21	458198.17	85.69	60	120	

Sample Report

Sample Name	L734810-07 WG757513
File Name	035SMPL.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\120214ICPMS8A.b
Acq Time	2014-12-02 17:07:56
Sample Type	Sample
Total Dilution	5.5556
Comment	---
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fial	Fail
ISTD QC Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD	Tune Mode	Conc.	Conc. RSD	CPS	LDR	QC Flag
B	10	45	No Gas	0.384	2.33	12441.18	5	
B	11	45	No Gas	0.382	1.60	59751.32	5	
Se	82	72	No Gas	0.015	11.83	535.03	5	
Be	9	45	He	0.003	37.41	7.33	5	
Na	23	45	He	1504.363	1.97	38508862.76	90	>LDR
Mg	24	45	He	451.587	1.65	5247796.38	90	
Al	27	45	He	31.433	2.09	79972.84	90	
K	39	45	He	16.442	1.13	116605.28	90	
Ca	43	45	He	1267.166	1.15	30439.16	90	>LDR
Ti	47	45	He	0.494	13.49	1880.16	5	
V	51	45	He	0.100	0.46	21756.52	5	
Cr	52	45	He	0.064	3.50	18962.64	5	
Mn	55	72	He	1.000	1.21	93111.14	5	
Fe	56	72	He	43.245	1.19	8881065.49	90	
Co	59	72	He	0.020	5.41	12628.99	5	
Ni	60	72	He	0.043	2.47	8109.06	5	
Cu	63	72	He	0.030	2.48	16823.41	5	
Zn	66	72	He	0.141	2.25	7368.68	5	
As	75	72	He	0.023	8.69	743.58	5	
Se	78	72	He	0.035	24.02	37.67	5	
Sr	88	72	He	15.573	1.58	1476491.18	5	
Mo	95	72	He	0.018	2.48	3893.94	5	
Ag	107	103	He	0.000	20.02	123.33	1	
Cd	111	103	He	0.001	7.60	64.67	5	
Sn	118	103	He	0.002	19.01	436.68	2	
Sb	121	103	He	0.001	23.11	160.00	1	
Ba	137	103	He	0.810	0.59	49034.55	2	
Tl	205	175	He	0.001	13.01	1223.41	5	
Pb	208	175	He	0.032	1.71	80909.19	5	
U	238	175	He	0.011	1.14	30666.76	5	

QC ISTD Table

Sample Report

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc (No He)	45	No Gas	1732885.03	1.21	1835428.51666667	94.41	60	120	
Ge (No He)	72	No Gas	451432.16	1.31	502396.14	89.86	60	120	
Sc	45	He	16794.14	1.52	18279.2166666667	91.88	60	120	
Ge	72	He	18881.37	1.21	21108.88	89.45	60	120	
Rh	103	He	763366.78	0.25	885514.7	86.21	60	120	
Lu	175	He	397039.59	1.75	458198.17	86.65	60	120	

Sample Report

Sample Name	L734810-09 WG757513
File Name	036SMPL.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\120214ICPMS8A.b
Acq Time	2014-12-02 17:09:26
Sample Type	Sample
Total Dilution	5.5556
Comment	---
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fial	Fail
ISTD QC Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD	Tune Mode	Conc.	Conc. RSD	CPS	LDR	QC Flag
B	10	45	No Gas	0.367	1.91	12108.91	5	
B	11	45	No Gas	0.363	2.37	57861.22	5	
Se	82	72	No Gas	0.014	25.45	502.88	5	
Be	9	45	He	0.004	29.68	9.00	5	
Na	23	45	He	1537.266	1.17	39939403.57	90	>LDR
Mg	24	45	He	363.404	2.01	4285884.62	90	
Al	27	45	He	32.214	1.39	83197.15	90	
K	39	45	He	17.090	1.30	122825.05	90	
Ca	43	45	He	1376.393	0.89	33555.95	90	>LDR
Ti	47	45	He	0.387	8.21	1496.78	5	
V	51	45	He	0.075	4.57	16703.13	5	
Cr	52	45	He	0.066	1.93	19837.17	5	
Mn	55	72	He	1.311	1.08	124464.35	5	
Fe	56	72	He	38.671	1.34	8097496.75	90	
Co	59	72	He	0.023	2.02	15358.32	5	
Ni	60	72	He	0.050	1.84	9563.32	5	
Cu	63	72	He	0.032	1.94	18502.10	5	
Zn	66	72	He	0.142	4.43	7542.09	5	
As	75	72	He	0.014	6.05	454.23	5	
Se	78	72	He	0.027	9.58	30.67	5	
Sr	88	72	He	16.842	0.95	1628220.08	5	
Mo	95	72	He	0.010	2.01	2206.88	5	
Ag	107	103	He	0.000	9.24	180.00	1	
Cd	111	103	He	0.001	6.36	107.33	5	
Sn	118	103	He	0.001	7.68	296.68	2	
Sb	121	103	He	0.001	10.49	143.33	1	
Ba	137	103	He	0.539	2.37	33243.86	2	
Tl	205	175	He	0.000	15.11	913.38	5	
Pb	208	175	He	0.040	1.06	101164.22	5	
U	238	175	He	0.016	0.69	44008.93	5	

QC ISTD Table

Sample Report

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc (No He)	45	No Gas	1760287.84	0.71	1835428.51666667	95.91	60	120	
Ge (No He)	72	No Gas	461908.63	0.37	502396.14	91.94	60	120	
Sc	45	He	17043.32	0.73	18279.2166666667	93.24	60	120	
Ge	72	He	19250.75	1.06	21108.88	91.2	60	120	
Rh	103	He	778490.51	1.05	885514.7	87.91	60	120	
Lu	175	He	404657.64	0.72	458198.17	88.31	60	120	

Sample Report

Sample Name	L735181-02 WG757513
File Name	037SMPL.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\120214ICPMS8A.b
Acq Time	2014-12-02 17:10:57
Sample Type	Sample
Total Dilution	5.5556
Comment	---
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fial	Fail
ISTD QC Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD	Tune Mode	Conc.	Conc. RSD	CPS	LDR	QC Flag
B	10	45	No Gas	0.220	0.88	7472.55	5	
B	11	45	No Gas	0.219	2.07	35884.20	5	
Se	82	72	No Gas	0.001	248.77	-32.51	5	
Be	9	45	He	0.000	59.65	1.33	5	
Na	23	45	He	726.856	1.68	18533652.22	90	>LDR
Mg	24	45	He	193.402	2.81	2237455.17	90	
Al	27	45	He	13.607	3.43	34480.76	90	
K	39	45	He	16.106	1.61	113826.12	90	
Ca	43	45	He	1123.598	1.94	26873.23	90	>LDR
Ti	47	45	He	0.235	6.54	890.04	5	
V	51	45	He	0.050	2.05	10867.56	5	
Cr	52	45	He	0.016	12.92	5264.39	5	
Mn	55	72	He	0.796	1.14	73482.46	5	
Fe	56	72	He	14.141	1.41	2884310.48	90	
Co	59	72	He	0.008	5.56	5407.78	5	
Ni	60	72	He	0.020	6.05	3800.59	5	
Cu	63	72	He	0.009	4.59	5131.01	5	
Zn	66	72	He	0.043	7.95	2346.90	5	
As	75	72	He	0.008	5.64	261.33	5	
Se	78	72	He	0.007	83.06	11.00	5	
Sr	88	72	He	14.506	0.40	1362836.39	5	
Mo	95	72	He	0.023	6.11	4990.95	5	
Ag	107	103	He	0.000	23.57	56.67	1	
Cd	111	103	He	0.000	25.25	25.33	5	
Sn	118	103	He	0.001	29.80	206.67	2	
Sb	121	103	He	0.001	61.86	163.34	1	
Ba	137	103	He	0.302	1.06	18873.31	2	
Tl	205	175	He	0.000	5.94	750.04	5	
Pb	208	175	He	0.011	1.06	27671.96	5	
U	238	175	He	0.030	0.40	83241.30	5	

QC ISTD Table

Sample Report

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc (No He)	45	No Gas	1739074.45	1.81	1835428.51666667	94.75	60	120	
Ge (No He)	72	No Gas	465494.38	0.55	502396.14	92.65	60	120	
Sc	45	He	16725.18	2.78	18279.2166666667	91.5	60	120	
Ge	72	He	18707.78	0.89	21108.88	88.63	60	120	
Rh	103	He	786666.89	0.65	885514.7	88.84	60	120	
Lu	175	He	402707.62	1.62	458198.17	87.89	60	120	

Continuing Calibration Verification (CCV) Report

Sample Name	CCV 14K05175
File Name	038_CCV.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\120214ICPMS8A.b
Acq Time	2014-12-02 17:12:29
Sample Type	CCV
Total Dilution	1.0000
Comment	---
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fial	Fail
ISTD QC Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD	Tune Mode	Conc.	Conc. RSD	CPS	ExpValue	% Rec	%QC Low	%QC High	QC Flag
B	10	45	No Gas	0.090	1.02	16860.18	0.9	9.95	10	10	CCV Main CR1 Failed
B	11	45	No Gas	0.087	1.57	78997.17	0.9	9.66	10	10	CCV Main CR1 Failed
Se	82	72	No Gas	0.102	3.01	24409.40	0.9	11.34	10	10	
Be	9	45	He	0.109	2.58	1484.41	0.9	12.11	10	10	
Na	23	45	He	10.779	1.71	1609331.28	0.9	1197.63	1000	1000	
Mg	24	45	He	10.341	1.39	695604.81	0.9	1149.01	1000	1000	
Al	27	45	He	1.038	2.23	15311.44	0.9	115.31	100	100	
K	39	45	He	10.089	0.73	402646.06	0.9	1121.01	1000	1000	
Ca	43	45	He	10.403	0.60	1451.41	0.9	1155.86	1000	1000	
Ti	47	45	He	0.098	7.41	2170.20	0.9	10.93	10	10	
V	51	45	He	0.104	0.45	131759.07	0.9	11.61	10	10	
Cr	52	45	He	0.107	0.51	178674.74	0.9	11.92	10	10	
Mn	55	72	He	0.102	1.43	56052.00	0.9	11.28	10	10	
Fe	56	72	He	1.025	1.25	1257362.80	0.9	113.91	100	100	
Co	59	72	He	0.104	0.91	396395.96	0.9	11.59	10	10	
Ni	60	72	He	0.104	1.52	116133.45	0.9	11.58	10	10	
Cu	63	72	He	0.105	1.15	345587.99	0.9	11.64	10	10	
Zn	66	72	He	0.103	1.78	31310.99	0.9	11.5	10	10	
As	75	72	He	0.101	1.24	18936.03	0.9	11.26	10	10	
Se	78	72	He	0.105	3.63	581.01	0.9	11.62	10	10	
Sr	88	72	He	0.101	1.81	56730.38	0.9	11.21	10	10	
Mo	95	72	He	0.105	0.82	137622.23	0.9	11.68	10	10	
Ag	107	103	He	0.102	0.33	574271.16	0.9	11.32	10	10	
Cd	111	103	He	0.101	0.92	52255.02	0.9	11.27	10	10	
Sn	118	103	He	0.099	0.71	94032.97	0.9	11.05	10	10	
Sb	121	103	He	0.101	0.80	113864.20	0.9	11.22	10	10	
Ba	137	103	He	0.099	1.02	37989.41	0.9	11.02	10	10	
Tl	205	175	He	0.103	0.91	1280343.05	0.9	11.4	10	10	
Pb	208	175	He	0.106	1.49	1632093.61	0.9	11.79	10	10	
U	238	175	He	0.104	1.25	1754525.96	0.9	11.53	10	10	

QC ISTD Table

Continuing Calibration Verification (CCV) Report

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc (No He)	45	No Gas	1834939.56	0.83	1835428.51666667	99.97	60	120	
Ge (No He)	72	No Gas	500713.24	1.10	502396.14	99.67	60	120	
Sc	45	He	17493.88	0.73	18279.2166666667	95.7	60	120	
Ge	72	He	20137.48	0.56	21108.88	95.4	60	120	
Rh	103	He	869188.14	0.66	885514.7	98.16	60	120	
Lu	175	He	440687.39	0.90	458198.17	96.18	60	120	

Continuing Calibration Blank (CCB) Report

Sample Name	CCB 14K05174
File Name	039_CCB.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\120214ICPMS8A.b
Acq Time	2014-12-02 17:14:01
Sample Type	CCB
Total Dilution	1.0000
Comment	---
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fial	Pass
ISTD QC Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD	Tune Mode	Conc.	Conc. RSD	CPS	Limit	QC Flag
B	10	45	No Gas	0.003	12.47	1247.39	0.015	
B	11	45	No Gas	0.003	13.79	5780.46	0.015	
Se	82	72	No Gas	0.000	121.04	46.86	0.00075	
Be	9	45	He	0.000	225.43	1.33	0.00075	
Na	23	45	He	0.121	3.49	29840.22	0.75	
Mg	24	45	He	0.007	21.27	590.02	0.75	
Al	27	45	He	0.000	N/A	33.33	0.0375	
K	39	45	He	-0.006	N/A	4377.40	0.75	
Ca	43	45	He	0.026	149.28	8.67	0.75	
Ti	47	45	He	0.000	NaN	0.00	0.0075	
V	51	45	He	0.000	54.36	53.33	0.0015	
Cr	52	45	He	0.000	26.93	763.37	0.00075	
Mn	55	72	He	0.000	N/A	80.00	0.0015	
Fe	56	72	He	0.001	41.26	12278.79	0.0375	
Co	59	72	He	0.000	73.15	80.00	0.00075	
Ni	60	72	He	0.000	138.36	93.33	0.00075	
Cu	63	72	He	0.000	21.69	253.34	0.0015	
Zn	66	72	He	0.000	N/A	193.34	0.0075	
As	75	72	He	0.000	104.49	8.44	0.00075	
Se	78	72	He	0.000	N/A	2.33	0.00075	
Sr	88	72	He	0.000	50.39	280.01	0.0075	
Mo	95	72	He	0.000	198.20	16.67	0.0015	
Ag	107	103	He	0.000	16.07	303.34	0.000375	
Cd	111	103	He	0.000	41.47	9.33	0.000375	
Sn	118	103	He	0.000	43.00	146.67	0.00075	
Sb	121	103	He	0.000	38.57	420.01	0.00075	
Ba	137	103	He	0.000	N/A	13.33	0.0015	
Tl	205	175	He	0.000	21.23	413.35	0.00075	
Pb	208	175	He	0.000	20.44	756.68	0.00075	
U	238	175	He	0.000	31.51	340.01	0.0075	

QC ISTD Table

Continuing Calibration Blank (CCB) Report

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc (No He)	45	No Gas	1775846.17	0.71	1835428.51666667	96.75	60	120	
Ge (No He)	72	No Gas	488818.16	0.90	502396.14	97.3	60	120	
Sc	45	He	16872.01	0.53	18279.2166666667	92.3	60	120	
Ge	72	He	19542.23	0.94	21108.88	92.58	60	120	
Rh	103	He	855589.83	0.48	885514.7	96.62	60	120	
Lu	175	He	424966.52	0.46	458198.17	92.75	60	120	

Sample Report

Sample Name	L735181-07 WG757513
File Name	040SMPL.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\120214ICPMS8A.b
Acq Time	2014-12-02 17:15:33
Sample Type	Sample
Total Dilution	5.5556
Comment	---
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fial	Fail
ISTD QC Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD	Tune Mode	Conc.	Conc. RSD	CPS	LDR	QC Flag
B	10	45	No Gas	0.428	1.22	13600.18	5	
B	11	45	No Gas	0.422	1.31	64588.58	5	
Se	82	72	No Gas	0.008	26.27	246.70	5	
Be	9	45	He	0.001	102.83	2.33	5	
Na	23	45	He	2145.280	1.97	53842922.53	90	>LDR
Mg	24	45	He	472.630	1.91	5385379.71	90	
Al	27	45	He	11.452	1.04	28594.70	90	
K	39	45	He	19.299	1.89	133426.39	90	
Ca	43	45	He	1021.182	1.82	24053.34	90	>LDR
Ti	47	45	He	0.187	13.53	696.70	5	
V	51	45	He	0.157	1.74	33552.35	5	
Cr	52	45	He	0.017	4.70	5304.40	5	
Mn	55	72	He	0.410	0.88	36997.60	5	
Fe	56	72	He	13.679	0.31	2725592.56	90	
Co	59	72	He	0.007	2.57	4600.82	5	
Ni	60	72	He	0.017	7.12	3113.73	5	
Cu	63	72	He	0.009	7.94	5117.68	5	
Zn	66	72	He	0.034	11.32	1866.82	5	
As	75	72	He	0.032	3.37	965.37	5	
Se	78	72	He	0.011	39.16	14.33	5	
Sr	88	72	He	17.689	1.81	1623136.85	5	
Mo	95	72	He	0.056	1.58	12085.36	5	
Ag	107	103	He	0.000	9.06	120.00	1	
Cd	111	103	He	0.000	12.74	24.67	5	
Sn	118	103	He	0.001	52.47	286.68	2	
Sb	121	103	He	0.001	21.03	270.01	1	
Ba	137	103	He	0.180	5.81	10947.84	2	
Tl	205	175	He	0.000	16.13	650.03	5	
Pb	208	175	He	0.009	1.55	23391.94	5	
U	238	175	He	0.116	1.37	326417.31	5	

QC ISTD Table

Sample Report

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc (No He)	45	No Gas	1706859.45	0.99	1835428.51666667	93	60	120	
Ge (No He)	72	No Gas	456642.55	0.39	502396.14	90.89	60	120	
Sc	45	He	16467.10	1.18	18279.2166666667	90.09	60	120	
Ge	72	He	18271.67	0.85	21108.88	86.56	60	120	
Rh	103	He	766849.26	0.56	885514.7	86.6	60	120	
Lu	175	He	407073.30	0.28	458198.17	88.84	60	120	

Sample Report

Sample Name	L735181-08 WG757513
File Name	041SMPL.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\120214ICPMS8A.b
Acq Time	2014-12-02 17:17:05
Sample Type	Sample
Total Dilution	5.5556
Comment	---
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fial	Fail
ISTD QC Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD	Tune Mode	Conc.	Conc. RSD	CPS	LDR	QC Flag
B	10	45	No Gas	0.165	3.79	5747.12	5	
B	11	45	No Gas	0.157	1.61	26653.68	5	
Se	82	72	No Gas	0.000	N/A	-67.51	5	
Be	9	45	He	0.000	54.92	1.33	5	
Na	23	45	He	77.791	2.54	1936830.65	90	
Mg	24	45	He	125.605	1.00	1411650.66	90	
Al	27	45	He	7.455	2.88	18365.08	90	
K	39	45	He	15.648	1.33	107534.11	90	
Ca	43	45	He	784.792	3.14	18228.99	90	>LDR
Ti	47	45	He	0.158	2.55	583.35	5	
V	51	45	He	0.022	2.73	4700.82	5	
Cr	52	45	He	0.008	9.73	2800.32	5	
Mn	55	72	He	0.744	0.79	67151.99	5	
Fe	56	72	He	6.362	0.70	1274784.27	90	
Co	59	72	He	0.006	2.24	3890.61	5	
Ni	60	72	He	0.012	5.81	2296.90	5	
Cu	63	72	He	0.004	0.86	2516.94	5	
Zn	66	72	He	0.020	23.66	1186.73	5	
As	75	72	He	0.043	3.52	1321.40	5	
Se	78	72	He	0.003	75.16	7.67	5	
Sr	88	72	He	11.430	0.67	1050146.39	5	
Mo	95	72	He	0.027	2.66	5814.66	5	
Ag	107	103	He	0.000	27.46	83.33	1	
Cd	111	103	He	0.000	46.93	16.67	5	
Sn	118	103	He	0.001	36.04	203.34	2	
Sb	121	103	He	0.001	41.06	186.67	1	
Ba	137	103	He	0.174	5.08	11047.93	2	
Tl	205	175	He	0.000	13.88	840.04	5	
Pb	208	175	He	0.005	4.10	13422.88	5	
U	238	175	He	0.034	0.83	94931.03	5	

QC ISTD Table

Sample Report

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc (No He)	45	No Gas	1735547.48	1.35	1835428.51666667	94.56	60	120	
Ge (No He)	72	No Gas	469456.92	0.66	502396.14	93.44	60	120	
Sc	45	He	16241.30	2.07	18279.2166666667	88.85	60	120	
Ge	72	He	18293.93	0.88	21108.88	86.66	60	120	
Rh	103	He	799513.17	0.68	885514.7	90.29	60	120	
Lu	175	He	408396.40	0.24	458198.17	89.13	60	120	

Sample Report

Sample Name	L735318-07 WG757513
File Name	042SMPL.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\120214ICPMS8A.b
Acq Time	2014-12-02 17:18:37
Sample Type	Sample
Total Dilution	5.5556
Comment	---
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fial	Fail
ISTD QC Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD	Tune Mode	Conc.	Conc. RSD	CPS	LDR	QC Flag
B	10	45	No Gas	0.404	1.40	13289.24	5	
B	11	45	No Gas	0.398	2.47	63218.87	5	
Se	82	72	No Gas	0.007	62.34	244.56	5	
Be	9	45	He	0.001	46.66	3.67	5	
Na	23	45	He	58.735	1.71	1468690.86	90	
Mg	24	45	He	171.953	0.70	1937076.43	90	
Al	27	45	He	27.066	2.57	66737.50	90	
K	39	45	He	23.280	2.47	158153.22	90	
Ca	43	45	He	1344.109	0.62	31292.97	90	>LDR
Ti	47	45	He	0.516	8.73	1906.83	5	
V	51	45	He	0.090	4.98	19069.43	5	
Cr	52	45	He	0.028	3.50	8342.54	5	
Mn	55	72	He	0.943	0.75	84844.01	5	
Fe	56	72	He	26.586	2.92	5275247.63	90	
Co	59	72	He	0.020	2.74	12148.60	5	
Ni	60	72	He	0.036	3.34	6598.28	5	
Cu	63	72	He	0.018	5.96	9650.03	5	
Zn	66	72	He	0.093	4.56	4784.22	5	
As	75	72	He	0.017	7.49	508.01	5	
Se	78	72	He	0.024	30.15	26.33	5	
Sr	88	72	He	14.693	1.90	1345343.37	5	
Mo	95	72	He	0.026	3.95	5484.48	5	
Ag	107	103	He	0.000	33.83	103.33	1	
Cd	111	103	He	0.000	32.09	36.67	5	
Sn	118	103	He	0.001	36.88	273.34	2	
Sb	121	103	He	0.001	16.21	263.34	1	
Ba	137	103	He	0.462	2.31	28864.09	2	
Tl	205	175	He	0.001	2.80	1296.76	5	
Pb	208	175	He	0.023	0.50	59494.21	5	
U	238	175	He	0.029	0.95	79416.97	5	

QC ISTD Table

Sample Report

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc (No He)	45	No Gas	1763992.58	0.51	1835428.51666667	96.11	60	120	
Ge (No He)	72	No Gas	470567.62	0.46	502396.14	93.66	60	120	
Sc	45	He	16276.90	2.20	18279.2166666667	89.05	60	120	
Ge	72	He	18238.28	2.65	21108.88	86.4	60	120	
Rh	103	He	788321.47	1.04	885514.7	89.02	60	120	
Lu	175	He	402850.54	0.45	458198.17	87.92	60	120	

Sample Report

Sample Name	L735318-08 WG757513
File Name	043SMPL.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\120214ICPMS8A.b
Acq Time	2014-12-02 17:20:09
Sample Type	Sample
Total Dilution	5.5556
Comment	---
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fial	Fail
ISTD QC Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD	Tune Mode	Conc.	Conc. RSD	CPS	LDR	QC Flag
B	10	45	No Gas	0.165	3.43	5757.79	5	
B	11	45	No Gas	0.166	2.32	27891.90	5	
Se	82	72	No Gas	0.007	50.37	212.25	5	
Be	9	45	He	0.002	36.42	5.00	5	
Na	23	45	He	69.605	0.43	1724053.62	90	
Mg	24	45	He	89.972	1.06	1004987.07	90	
Al	27	45	He	21.903	1.21	53573.96	90	
K	39	45	He	9.691	3.52	67853.50	90	
Ca	43	45	He	1447.084	1.19	33407.61	90	>LDR
Ti	47	45	He	0.402	6.68	1470.10	5	
V	51	45	He	0.070	2.27	14700.98	5	
Cr	52	45	He	0.030	6.63	8776.14	5	
Mn	55	72	He	0.484	2.02	43271.64	5	
Fe	56	72	He	23.612	0.55	4651246.70	90	
Co	59	72	He	0.011	2.86	7015.14	5	
Ni	60	72	He	0.025	2.02	4614.17	5	
Cu	63	72	He	0.015	3.13	8139.12	5	
Zn	66	72	He	0.074	4.71	3777.23	5	
As	75	72	He	0.009	5.61	263.56	5	
Se	78	72	He	0.010	34.96	13.33	5	
Sr	88	72	He	12.988	0.83	1180133.03	5	
Mo	95	72	He	0.012	7.12	2620.29	5	
Ag	107	103	He	0.000	9.83	110.00	1	
Cd	111	103	He	0.000	34.47	32.00	5	
Sn	118	103	He	0.001	37.60	196.67	2	
Sb	121	103	He	0.001	36.74	213.34	1	
Ba	137	103	He	0.342	3.81	21356.82	2	
Tl	205	175	He	0.000	4.22	913.38	5	
Pb	208	175	He	0.016	1.50	41035.62	5	
U	238	175	He	0.012	1.47	33192.98	5	

QC ISTD Table

Sample Report

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc (No He)	45	No Gas	1730156.02	2.83	1835428.51666667	94.26	60	120	
Ge (No He)	72	No Gas	464355.84	0.39	502396.14	92.43	60	120	
Sc	45	He	16140.08	0.77	18279.2166666667	88.3	60	120	
Ge	72	He	18093.68	1.21	21108.88	85.72	60	120	
Rh	103	He	786166.99	0.08	885514.7	88.78	60	120	
Lu	175	He	402674.72	1.33	458198.17	87.88	60	120	

Continuing Calibration Verification (CCV) Report

Sample Name	CCV 14K05175
File Name	044_CCV.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\120214ICPMS8A.b
Acq Time	2014-12-02 17:21:41
Sample Type	CCV
Total Dilution	1.0000
Comment	---
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fial	Fail
ISTD QC Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD	Tune Mode	Conc.	Conc. RSD	CPS	ExpValue	% Rec	%QC Low	%QC High	QC Flag
B	10	45	No Gas	0.088	2.27	16014.58	0.9	9.74	10	10	CCV Main CR1 Failed
B	11	45	No Gas	0.085	2.19	75292.15	0.9	9.49	10	10	CCV Main CR1 Failed
Se	82	72	No Gas	0.103	0.30	24085.94	0.9	11.45	10	10	
Be	9	45	He	0.110	2.46	1441.74	0.9	12.2	10	10	
Na	23	45	He	10.514	1.30	1514494.35	0.9	1168.2	1000	1000	
Mg	24	45	He	10.281	0.98	667068.72	0.9	1142.31	1000	1000	
Al	27	45	He	1.009	1.33	14360.61	0.9	112.09	100	100	
K	39	45	He	9.973	2.03	383940.55	0.9	1108.17	1000	1000	
Ca	43	45	He	10.485	2.51	1411.41	0.9	1165.05	1000	1000	
Ti	47	45	He	0.107	4.46	2276.89	0.9	11.89	10	10	
V	51	45	He	0.104	2.34	126378.49	0.9	11.54	10	10	
Cr	52	45	He	0.107	2.66	171026.94	0.9	11.84	10	10	
Mn	55	72	He	0.101	1.95	52762.61	0.9	11.21	10	10	
Fe	56	72	He	1.046	0.53	1214940.50	0.9	116.24	100	100	
Co	59	72	He	0.107	0.39	384269.15	0.9	11.86	10	10	
Ni	60	72	He	0.107	0.52	112757.57	0.9	11.88	10	10	
Cu	63	72	He	0.106	0.40	331613.22	0.9	11.8	10	10	
Zn	66	72	He	0.107	2.50	30649.49	0.9	11.88	10	10	
As	75	72	He	0.105	0.83	18607.17	0.9	11.69	10	10	
Se	78	72	He	0.099	6.59	522.34	0.9	11.02	10	10	
Sr	88	72	He	0.101	0.94	53979.66	0.9	11.26	10	10	
Mo	95	72	He	0.107	1.73	133236.72	0.9	11.94	10	10	
Ag	107	103	He	0.101	0.86	558551.70	0.9	11.27	10	10	
Cd	111	103	He	0.101	1.48	50783.01	0.9	11.2	10	10	
Sn	118	103	He	0.100	1.45	92694.15	0.9	11.15	10	10	
Sb	121	103	He	0.100	2.12	109777.99	0.9	11.07	10	10	
Ba	137	103	He	0.098	1.96	36769.64	0.9	10.92	10	10	
Tl	205	175	He	0.103	0.19	1248653.73	0.9	11.45	10	10	
Pb	208	175	He	0.106	0.31	1586074.45	0.9	11.79	10	10	
U	238	175	He	0.105	0.75	1717392.84	0.9	11.62	10	10	

QC ISTD Table

Continuing Calibration Verification (CCV) Report

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc (No He)	45	No Gas	1778736.22	1.56	1835428.51666667	96.91	60	120	
Ge (No He)	72	No Gas	489518.57	0.61	502396.14	97.44	60	120	
Sc	45	He	16875.32	1.65	18279.2166666667	92.32	60	120	
Ge	72	He	19070.49	0.67	21108.88	90.34	60	120	
Rh	103	He	849373.22	0.15	885514.7	95.92	60	120	
Lu	175	He	428145.84	0.47	458198.17	93.44	60	120	

Continuing Calibration Blank (CCB) Report

Sample Name	CCB 14K05174
File Name	045_CCB.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\120214ICPMS8A.b
Acq Time	2014-12-02 17:23:12
Sample Type	CCB
Total Dilution	1.0000
Comment	---
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fial	Pass
ISTD QC Pass/Fail	Pass

QC Analyte Table

Name	Mass	ISTD	Tune Mode	Conc.	Conc. RSD	CPS	Limit	QC Flag
B	10	45	No Gas	0.002	20.58	1137.38	0.015	
B	11	45	No Gas	0.002	6.98	5307.62	0.015	
Se	82	72	No Gas	-0.001	N/A	-208.38	0.00075	
Be	9	45	He	0.000	2297.06	0.33	0.00075	
Na	23	45	He	0.077	4.18	23158.33	0.75	
Mg	24	45	He	0.006	34.77	463.35	0.75	
Al	27	45	He	0.000	447.43	36.67	0.0375	
K	39	45	He	-0.004	N/A	4367.39	0.75	
Ca	43	45	He	0.032	72.43	9.33	0.75	
Ti	47	45	He	0.001	34.38	16.67	0.0075	
V	51	45	He	0.000	13.52	56.67	0.0015	
Cr	52	45	He	0.000	62.99	753.36	0.00075	
Mn	55	72	He	0.000	N/A	60.00	0.0015	
Fe	56	72	He	0.006	94.38	17767.56	0.0375	
Co	59	72	He	0.000	44.32	76.67	0.00075	
Ni	60	72	He	0.000	92.53	110.00	0.00075	
Cu	63	72	He	0.000	132.17	196.67	0.0015	
Zn	66	72	He	0.000	60.26	263.34	0.0075	
As	75	72	He	0.000	123.15	7.55	0.00075	
Se	78	72	He	0.000	N/A	3.33	0.00075	
Sr	88	72	He	0.000	40.51	230.01	0.0075	
Mo	95	72	He	0.000	59.00	40.00	0.0015	
Ag	107	103	He	0.000	36.05	290.01	0.000375	
Cd	111	103	He	0.000	25.05	18.00	0.000375	
Sn	118	103	He	0.000	84.16	120.00	0.00075	
Sb	121	103	He	0.000	2.29	450.02	0.00075	
Ba	137	103	He	0.000	93.15	30.00	0.0015	
Tl	205	175	He	0.000	5.80	430.01	0.00075	
Pb	208	175	He	0.000	14.39	723.36	0.00075	
U	238	175	He	0.000	7.61	373.35	0.0075	

QC ISTD Table

Continuing Calibration Blank (CCB) Report

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc (No He)	45	No Gas	1748352.21	0.98	1835428.51666667	95.26	60	120	
Ge (No He)	72	No Gas	483516.01	0.69	502396.14	96.24	60	120	
Sc	45	He	16581.68	1.49	18279.2166666667	90.71	60	120	
Ge	72	He	19267.42	0.68	21108.88	91.28	60	120	
Rh	103	He	854960.25	0.15	885514.7	96.55	60	120	
Lu	175	He	424923.07	0.75	458198.17	92.74	60	120	

Volatile TPH by Method 8015D/GRO

12065 Lebanon Rd
Mt. Juliet, TN 37122
(615) 758-5858
(800) 767-5859
Fax (615) 758-5859
Tax I.D 62-0814289
Est. 1970

Quality Control Summary
SDG: L735181

Volatile TPH by Method 8015D/GRO
URS Corporation - Tucson AZ - 1088308

Project: Holloman AFB
Project No: 23446543.0057AA

Login No: L735181

Lab SampleID.	Client ID
L735181-01	H-TU508-TRIPBLANK-TT01
L735181-02	H-TU508-MW06-NT01
L735181-03	H-TU508-MW06-ND01
L735181-04	H-TU508-MW05-ND01
L735181-05	H-TU508-MW05-NT01
L735181-06	H-TU508-MW04-ND01
L735181-07	H-TU508-MW04-NT01
L735181-08	H-TU508-MW07-NT01
L735181-09	H-TU508-MW07-ND01
L735181-10	H-TU508-MW07-NT01

I certify that this data package accurately represents the information in the raw data found herein, both technically and for completeness. Release of the data contained in this data package has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature.

Signature: _____ Name: ESC Lab Sciences

Date: _____ Title: Quality Control

12065 Lebanon Rd
Mt. Juliet, TN 37122
(615) 758-5858
(800) 767-5859
Fax (615) 758-5859
Tax I.D 62-0814289
Est. 1970

Quality Control Summary
SDG: L735181
URS Corporation - Tucson AZ - 1088308

Test:	Volatile TPH by Method 8015D/GRO		
Project No:	23446543.0057AA	Matrix:	Water - mg/L
Project:	Holloman AFB	EPA ID:	TN00003
Collection Date:	11/20/2014	**Analytic Batch:**	**WG756338**
Analysis Date:	11/26/2014	Analyst:	621
Instrument ID:	VOCGC7		
Sample Numbers:	L735181-01, -02, -05, -07, -10		

Workgroup: **WG756338**
Description: **TPH Low Fraction by Method 8015D/GRO (GW)**

Sample Name	Collect Date	Analysis Date
L735181-01 1x	11/20/2014	11/26/2014
L735181-02 1x	11/19/2014	11/26/2014
L735181-05 1x	11/19/2014	11/26/2014
L735181-07 1x	11/19/2014	11/26/2014
L735181-10 1x	11/21/2014	11/26/2014

Parameters in bold text are reported in this SDG

12065 Lebanon Rd
Mt. Juliet, TN 37122
(615) 758-5858
(800) 767-5859
Fax (615) 758-5859
Tax I.D 62-0814289
Est. 1970

Quality Control Summary
SDG: L735181
URS Corporation - Tucson AZ - 1088308

Test:	Volatile TPH by Method 8015D/GRO		
Project No:	23446543.0057AA	Matrix:	Water - mg/L
Project:	Holloman AFB	EPA ID:	TN00003
Collection Date:	11/20/2014	**Analytic Batch:**	**WG756338**
Analysis Date:	11/26/2014	Analyst:	621
Instrument ID:	VOCGC7		
Sample Numbers:	L735181-01, -02, -05, -07, -10		

Method Blank Summary

Instrument	Client Sample ID	Lab Sample ID	File Name	Analysis Date	Analysis Time
VOCGC7	LCS WG756338	LCS WG756338	1124_71.D	11/25/2014	10:01 PM
VOCGC7	LCSD WG756338	LCSD WG756338	1124_72.D	11/25/2014	10:26 PM
VOCGC7	MS WG756338	MS WG756338	1124_73.D	11/25/2014	10:51 PM
VOCGC7	MSD WG756338	MSD WG756338	1124_74.D	11/25/2014	11:16 PM
VOCGC7	Blank WG756338	Blank WG756338	1124_76.D	11/26/2014	12:07 AM
VOCGC7	H-TU508-TRIPBLANK-TT01	L735181-01	1124_77.D	11/26/2014	1:38 AM
VOCGC7	H-TU508-MW06-NT01	L735181-02	1124_81.D	11/26/2014	3:19 AM
VOCGC7	H-TU508-MW05-NT01	L735181-05	1124_82.D	11/26/2014	3:44 AM
VOCGC7	H-TU508-MW04-NT01	L735181-07	1124_83.D	11/26/2014	4:09 AM
VOCGC7	H-TU508-MW07-NT01	L735181-10	1124_84.D	11/26/2014	4:34 AM

Parameters in bold text are reported in this SDG

12065 Lebanon Rd
Mt. Juliet, TN 37122
(615) 758-5858
(800) 767-5859
Fax (615) 758-5859
Tax I.D 62-0814289
Est. 1970

Quality Control Summary
SDG: L735181
URS Corporation - Tucson AZ - 1088308

Test:	Volatile TPH by Method 8015D/GRO		
Project No:	23446543.0057AA	Matrix:	Water - mg/L
Project:	Holloman AFB	EPA ID:	TN00003
Collection Date:	11/20/2014	**Analytic Batch:**	**WG756338**
Analysis Date:	11/26/2014	Analyst:	621
Instrument ID:	VOCGC7		
Sample Numbers:	L735181-01, -02, -05, -07, -10		

Method Blank

Analyte	CAS	RDL	MDL	Qualifier
TPH (GC/FID) Low Fraction	8006-61-9	< 0.100	< 0.0314	

Laboratory Control Sample (LCS)

Analyte	Dil	True Value	Found	% Rec	Control Limits	Qual
TPH (GC/FID) Low Fraction	1	5.5	3.9757	72.3	67 - 132	

Laboratory Control Sample Duplicate (LCSD)

Analyte	Dil	True Value	Found	% Rec	Control Limits	Qual
TPH (GC/FID) Low Fraction	1	5.5	4.2172	76.7	67 - 132	

Laboratory Control Sample / Laboratory Control Sample Duplicate

Analyte	Dil	Spike	LCS	% Rec	LCSD	% Rec	Control Limits	% Rec Qual	% RPD	Control Limits	RPD Qual
TPH (GC/FID) Low Fraction	1	5.5	3.9757	72.3	4.2172	76.7	67 - 132		5.89	20	

Parameters in bold text are reported in this SDG

12065 Lebanon Rd
Mt. Juliet, TN 37122
(615) 758-5858
(800) 767-5859
Fax (615) 758-5859
Tax I.D 62-0814289
Est. 1970

Quality Control Summary
SDG: L735181
URS Corporation - Tucson AZ - 1088308

Test:	Volatile TPH by Method 8015D/GRO		
Project No:	23446543.0057AA	Matrix:	Water - mg/L
Project:	Holloman AFB	EPA ID:	TN00003
Collection Date:	11/20/2014	**Analytic Batch:**	**WG756338**
Analysis Date:	11/26/2014	Analyst:	621
Instrument ID:	VOCGC7		
Sample Numbers:	L735181-01, -02, -05, -07, -10		

Matrix Spike / Matrix Spike Duplicate

L735268-01

Analyte	Dil	Spike Value	Sample	MS	% Rec	MSD	% Rec	Control Limits	% Rec Qual	RPD	Control Limits	RPD Qual
TPH (GC/FID) Low Fraction	1	5.5	0.0878	4.2597	75.9	4.5732	81.6	50 - 143		7.1	20	

Parameters in bold text are reported in this SDG

12065 Lebanon Rd
Mt. Juliet, TN 37122
(615) 758-5858
(800) 767-5859
Fax (615) 758-5859
Tax I.D 62-0814289
Est. 1970

Quality Control Summary
SDG: L735181
URS Corporation - Tucson AZ - 1088308

Test:	Volatile TPH by Method 8015D/GRO		
Project No:	23446543.0057AA	Matrix:	Water - mg/L
Project:	Holloman AFB	EPA ID:	TN00003
Collection Date:	11/20/2014	**Analytic Batch:**	**WG756338**
Analysis Date:	11/26/2014	Analyst:	621
Instrument ID:	VOCGC7		
Sample Numbers:	L735181-01, -02, -05, -07, -10		

Surrogate Summary

Laboratory Sample ID	Instrument	File ID	ppm	% Rec
L735181-01	VOCGC7	1124_77	0.199	99.4
L735181-02	VOCGC7	1124_81	0.198	99.2
L735181-05	VOCGC7	1124_82	0.197	98.5
L735181-07	VOCGC7	1124_83	0.199	99.6
L735181-10	VOCGC7	1124_84	0.198	99.0
LCS WG756338	VOCGC7	1124_71	0.211	105
LCSD WG756338	VOCGC7	1124_72	0.211	106
MS WG756338	VOCGC7	1124_73	0.212	106
MSD WG756338	VOCGC7	1124_74	0.212	106
BLANK WG756338	VOCGC7	1124_76	0.199	99.6

--A,A,A-TRIFLUOROTOLUENE(FID) True Value: 0.2 ppm Limits: 62 - 128

--A,A,A-TRIFLUOROTOLUENE(PID) True Value: 0.2 ppm Limits: 55 - 122

12065 Lebanon Rd
Mt. Juliet, TN 37122
(615) 758-5858
(800) 767-5859
Fax (615) 758-5859
Tax I.D 62-0814289
Est. 1970

Quality Control Summary
SDG: L735181
URS Corporation - Tucson AZ - 1088308

Test: Method 8015D/GRO
Project No: 23446543.0057AA
Project: Holloman AFB EPA ID: TN00003
Collection Date: 11/20/2014
Instrument ID: VOCGC7

Continuing Calibration Verification Standard (CCV)

Filename: 1124_03.D
Date Analyzed: 11/24/2014
Time Analyzed: 2:57 PM

Analyte	True Value	Found	Recovery %	Limits
TPH (GC/FID) Low	5.50	5.01	91.1	85 - 115

Continuing Calibration Verification Standard (CCV)

Filename: 1124_22.D
Date Analyzed: 11/25/2014
Time Analyzed: 12:29 AM

Analyte	True Value	Found	Recovery %	Limits
TPH (GC/FID) Low	5.50	5.03	91.5	85 - 115

*** - calibrated by linear regression*

12065 Lebanon Rd
Mt. Juliet, TN 37122
(615) 758-5858
(800) 767-5859
Fax (615) 758-5859
Tax I.D 62-0814289
Est. 1970

Quality Control Summary
SDG: L735181
URS Corporation - Tucson AZ - 1088308

Test: Method 8015D/GRO
Project No: 23446543.0057AA
Project: Holloman AFB EPA ID: TN00003
Collection Date: 11/20/2014
Instrument ID: VOCGC7

Continuing Calibration Verification Standard (CCV)

Filename: 1124_36.D
Date Analyzed: 11/25/2014
Time Analyzed: 6:29 AM

Analyte	True Value	Found	Recovery %	Limits
TPH (GC/FID) Low	5.50	5.15	93.6	85 - 115

Continuing Calibration Verification Standard (CCV)

Filename: 1124_56.D
Date Analyzed: 11/25/2014
Time Analyzed: 3:02 PM

Analyte	True Value	Found	Recovery %	Limits
TPH (GC/FID) Low	5.50	5.38	97.8	85 - 115

*** - calibrated by linear regression*

12065 Lebanon Rd
Mt. Juliet, TN 37122
(615) 758-5858
(800) 767-5859
Fax (615) 758-5859
Tax I.D 62-0814289
Est. 1970

Quality Control Summary
SDG: L735181
URS Corporation - Tucson AZ - 1088308

Test: Method 8015D/GRO
Project No: 23446543.0057AA
Project: Holloman AFB EPA ID: TN00003
Collection Date: 11/20/2014
Instrument ID: VOCGC7

Continuing Calibration Verification Standard (CCV)

Filename: 1124_70.D
Date Analyzed: 11/25/2014
Time Analyzed: 9:13 PM

Analyte	True Value	Found	Recovery %	Limits
TPH (GC/FID) Low	5.50	5.09	92.5	85 - 115

Continuing Calibration Verification Standard (CCV)

Filename: 1124_89.D
Date Analyzed: 11/26/2014
Time Analyzed: 6:41 AM

Analyte	True Value	Found	Recovery %	Limits
TPH (GC/FID) Low	5.50	5.04	91.6	85 - 115

*** - calibrated by linear regression*

Raw Data

Environmental Science Corporation
12065 Lebanon Rd., Mt. Juliet, TN 37122

Injection Log

Instrument ID : VOCGC7
Computer Name : VOCCOMPAT

Released By : John A. Heath Jr.
Date Released : 11/25/2014 1:16:02 PM

Run ID : 112414
Signature : _____

#	File ID	Sample ID	Method	WG	Product	Matrix	Account #	State	Dil.	Mult.	Injected	Misc.
1	1124_01	INSTBLK	BG07I09N						1	1	11/24/14 1407	"soil ISSURR14F10114"
2	1124_02	RT	BG07I09N						1	1	11/24/14 1432	"soil ISSURR14F10114"
3	1124_03	ICV GRO 5.5G PPM 14K19014	BG07I09N						1	1	11/24/14 1457	"soil ISSURR14F10114"
4	1124_04	LCSGRO	BG07I09N	WG756348	GRO	SS			1	1	11/24/14 1531	"soil ISSURR14F10114/SPK14K19015"
5	1124_05	LCSDGRO	BG07I09N	WG756348	GRO	SS			1	1	11/24/14 1556	"soil ISSURR14F10114/SPK14K19015"
6	1124_06	MSGRO	BG07I09N	WG756348	GRO	SS			1	1	11/24/14 1659	"soil ISSURR14F10114/SPK14K19015"
7	1124_07	MSDGRO	BG07I09N	WG756348	GRO	SS			1	1	11/24/14 1724	"soil ISSURR14F10114/SPK14K19015"
8	1124_08	INSTBLK	BG07I09N						1	1	11/24/14 1749	"soil ISSURR14F10114"
9	1124_09	BLANK	BG07I09N	WG756348	GRO	SS			1	1	11/24/14 1814	"soil ISSURR14F10114"
10	1124_10	L735302-01	BG07I09N	WG756348	GRO	SS	SMEKEN	GA	1	1	11/24/14 1927	"soil ISSURR14F10114"
11	1124_11	L734946-04	BG07I09N	WG756348	GRO	SS	EARCONOSMS	MS	1	0.58	11/24/14 1952	"soil ISSURR14F10114"
12	1124_12	L734946-11	BG07I09N	WG756348	GRO	SS	EARCONOSMS	MS	1	1	11/24/14 2017	"soil ISSURR14F10114"
13	1124_13	L734946-14	BG07I09N	WG756348	GRO	SS	EARCONOSMS	MS	1	1	11/24/14 2042	"soil ISSURR14F10114"
14	1124_14	L734946-18	BG07I09N	WG756348	GRO	SS	EARCONOSMS	MS	12	12	11/24/14 2107	"soil ISSURR14F10114"
15	1124_15	L734946-21	BG07I09N	WG756348	GRO	SS	EARCONOSMS	MS	47	47	11/24/14 2132	"soil ISSURR14F10114"
16	1124_16	L734946-22	BG07I09N	WG756348	GRO	SS	EARCONOSMS	MS	104	104	11/24/14 2158	"soil ISSURR14F10114"
17	1124_17	L734946-23	BG07I09N	WG756348	GRO	SS	EARCONOSMS	MS	110	110	11/24/14 2223	"soil ISSURR14F10114"
18	1124_18	L734946-24	BG07I09N	WG756348	GRO	SS	EARCONOSMS	MS	1	1	11/24/14 2248	"soil ISSURR14F10114"
19	1124_19	L734231-07	BG07I09N	WG756348	GRO	SS	URSTAZ	AZ	23	23	11/24/14 2313	"soil ISSURR14F10114"
20	1124_20	INSTBLK	BG07I09N						1	1	11/24/14 2338	"soil ISSURR14F10114"
21	1124_21	RT	BG07I09N						1	1	11/25/14 0004	"soil ISSURR14F10114"
22	1124_22	CCV GRO 5.5G PPM 14K19014	BG07I09N						1	1	11/25/14 0029	"soil ISSURR14F10114"

Environmental Science Corporation
12065 Lebanon Rd., Mt. Juliet, TN 37122

Injection Log

Instrument ID : VOCGC7
Computer Name : VOCCOMPAT
Released By : John A. Heath Jr.
Date Released : 11/25/2014 1:16:02 PM
Run ID : 112414
Signature : _____

#	File ID	Sample ID	Method	WG	Product	Matrix	Account #	State	Dil.	Mult.	Injected	Misc.
23	1124_23	INSTBLK	BG07I09N						1	1	11/25/14 0102	"soil ISSURR14F10114"
24	1124_24	L734231-08	BG07I09N	WG756348	GRO	SS	URSTAZ	AZ	22.25	22.25	11/25/14 0127	"soil ISSURR14F10114"
25	1124_25	L734241-01	BG07I09N	WG756348	GROWY	SS	DELTAUT	WY	5	5	11/25/14 0152	"soil ISSURR14F10114"
26	1124_26	L734241-02	BG07I09N	WG756348	GROWY	SS	DELTAUT	WY	5	5	11/25/14 0217	"soil ISSURR14F10114"
27	1124_27	L734241-03	BG07I09N	WG756348	GROWY	SS	DELTAUT	WY	5	5	11/25/14 0242	"soil ISSURR14F10114"
28	1124_28	L735183-19	BG07I09N	WG756348	NWTPHGX	SS	PBSENGPOR	OR	1	0.8	11/25/14 0307	"soil ISSURR14F10114"
29	1124_29	L735183-20	BG07I09N	WG756348	NWTPHGX	SS	PBSENGPOR	OR	1	1	11/25/14 0333	"soil ISSURR14F10114"
30	1124_30	L735302-02	BG07I09N	WG756348	GRO	SS	SMEKEN	GA	1	0.74	11/25/14 0358	"soil ISSURR14F10114"
31	1124_31	L735302-03	BG07I09N	WG756348	GRO	SS	SMEKEN	GA	1	0.85	11/25/14 0423	"soil ISSURR14F10114"
32	1124_32	L734621-01	BG07I09N	WG756348	GRO	SS	OXYGJCO	CO	5	5	11/25/14 0448	"soil ISSURR14F10114"
33	1124_33	L734621-02	BG07I09N	WG756348	GRO	SS	OXYGJCO	CO	5	5	11/25/14 0513	"soil ISSURR14F10114"
34	1124_34	INSTBLK	BG07I09N						1	1	11/25/14 0539	"water ISSURR14F10114"
35	1124_35	RT	BG07I09N						1	1	11/25/14 0604	"water ISSURR14F10114"
36	1124_36	ICV GRO 5.5G PPM 14K19014	BG07I09N						1	1	11/25/14 0629	"water ISSURR14F10114"
37	1124_37	LCSGRO	BG07I09N	WG756337	GRO	GW			1	1	11/25/14 0654	"water ISSURR14F10114/SPK14K19015"
38	1124_38	LCSDGRO	BG07I09N	WG756337	GRO	GW			1	1	11/25/14 0720	"water ISSURR14F10114/SPK14K19015"
39	1124_39	MSGRO	BG07I09N	WG756337	GRO	GW			1	1	11/25/14 0745	"water ISSURR14F10114/SPK14K19015"
40	1124_40	MSDGRO	BG07I09N	WG756337	GRO	GW			1	1	11/25/14 0810	"water ISSURR14F10114/SPK14K19015"
41	1124_41	INSTBLK	BG07I09N						1	1	11/25/14 0836	"water ISSURR14F10114"
42	1124_42	BLANK	BG07I09N	WG756337	GRO	GW			1	1	11/25/14 0901	"water ISSURR14F10114"
43	1124_43	L734231-26	BG07I09N	WG756337	GRO	GW	URSTAZ	AZ	1	1	11/25/14 0926	"water ISSURR14F10114"
44	1124_44	L734718-15	BG07I09N	WG756337	GRO	GW	URSTAZ	AZ	1	1	11/25/14 0951	"water ISSURR14F10114"
45	1124_45	L735138-01	BG07I09N	WG756337	GRO	GW	PINNENGMN	ND	1	1	11/25/14 1016	"water ISSURR14F10114"

Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\112414\1124 03.D\FID1A.CH Vial: 3
Signal #2 : C:\HPCHEM\1\DATA\112414\1124 03.D\FID2B.CH
Acq On : 24 Nov 2014 2:57 pm Operator: 621
Sample : ICV GRO 5.5g ppm 14K19014 Inst : VOCGC7
Misc : soil ISSURR14F10114 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS3.E
Quant Time: Nov 25 9:17 2014 Quant Results File: BG07I09N.RES

Quant Method : C:\HPCHEM\1\METHODS\BG07I09N.M (Chemstation Integrator)
Title : WIS GRO VOCGC07
Last Update : Wed Sep 10 13:45:13 2014
Response via : Initial Calibration
DataAcq Meth : VOCGC14A.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

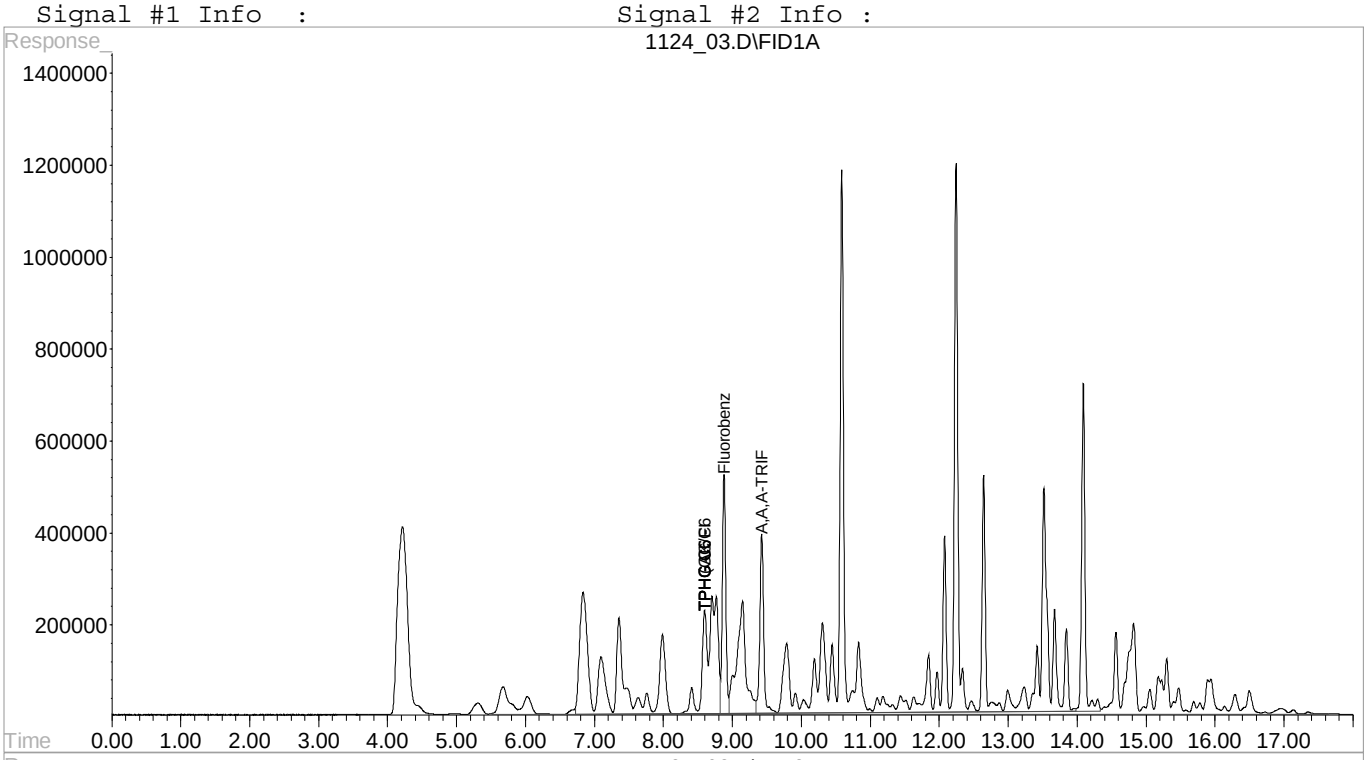
Compound	R.T.	Response	Conc	Units
Internal Standards				
1) I Fluorobenzene #1	8.88	18307081	200.0000000	ppb
9) I Fluorobenzene #2	8.88	11201717	200.0000000	ppb
System Monitoring Compounds				
7) S A,A,A-TRIFLUOROTOLUENE(FID	9.43	15945450	223.0457270	ppb
Spiked Amount 200.000 Range 59 - 128		Recovery = 111.52%		
10) S A,A,A-TRIFLUOROTOLUENE(PID	9.43	6898836	NoCal	ppb
Spiked Amount 200.000 Range 54 - 144		Recovery = 0.00%#		
Target Compounds				
2) H,M TPHG C4 - C12	0.00	15950	NoCal	ppm
3) H,M TPHG C5 - C12	8.61	441282653	5.0413250	ppm
4) H,M TPHG C6 - C12	8.61	431114832	5.0690800	ppm
5) H,M TPHGAK C6 to C10	8.61	332450071	4.9694732	ppm
6) h,m TPH (GC/FID) Low Fraction	8.61	358096782	5.0080346	ppm
11) T,M Methyl Tert-Butyl Ether	6.88	4510655	NoCal	ppb
12) T,M benzene	8.70	6147443	NoCal	ppb
13) T,M toluene	10.59	25261724	NoCal	ppb
14) T,M ethylbenzene	12.08	7613471	NoCal	ppb
15) T,M m&p-xylene	12.24	27776784	NoCal	ppb
16) T,M o-xylene	12.65	9842343	NoCal	ppb
17) T,M 1,3,5-Trimethylbenzene	13.67	6078570	NoCal	ppb
18) T,M 1,2,4-Trimethylbenzene	14.09	15519135	NoCal	ppb
19) T,M Naphthalene	17.35	189330	NoCal	ppb

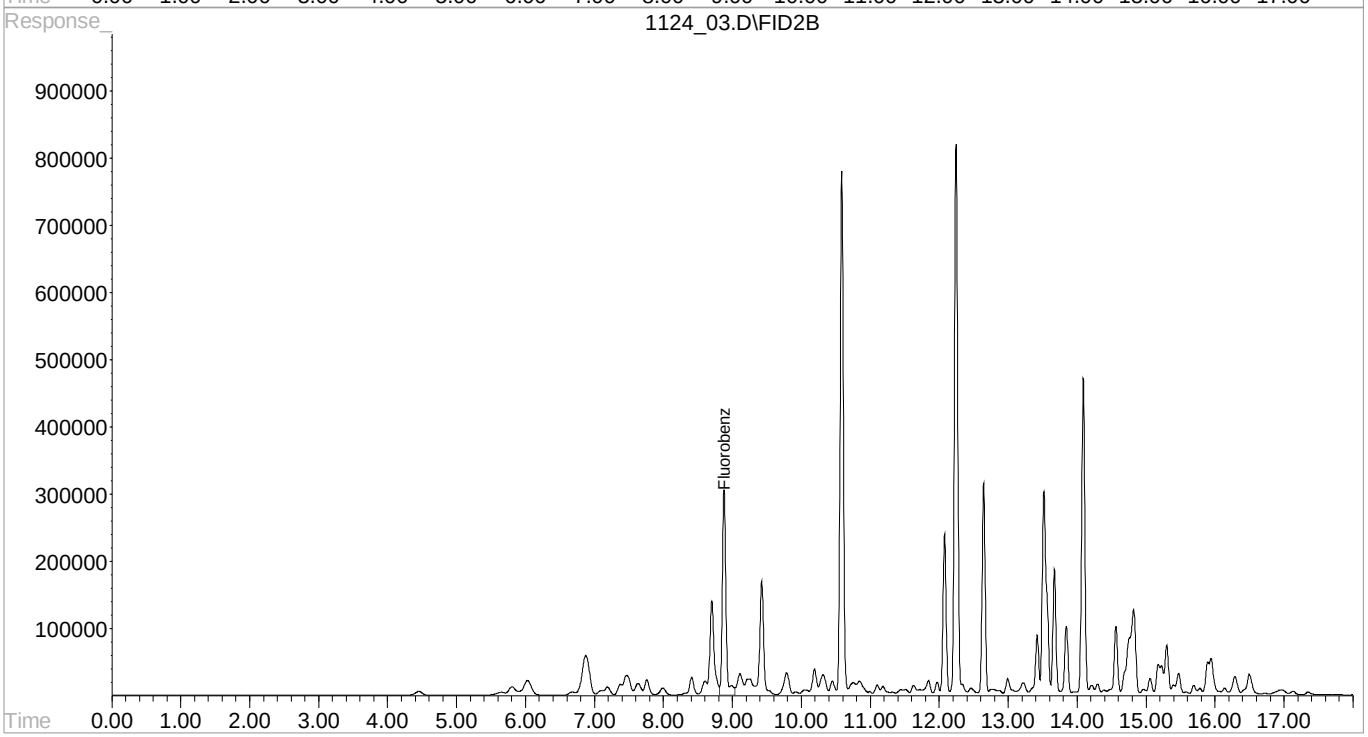
Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\112414\1124 03.D\FID1A.CH Vial: 3
Signal #2 : C:\HPCHEM\1\DATA\112414\1124 03.D\FID2B.CH
Acq On : 24 Nov 2014 2:57 pm Operator: 621
Sample : ICV GRO 5.5g ppm 14K19014 Inst : VOCGC7
Misc : soil ISSURR14F10114 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS3.E
Quant Time: Nov 25 9:17 2014 Quant Results File: BG07I09N.RES

Quant Method : C:\HPCHEM\1\METHODS\BG07I09N.M (Chemstation Integrator)
Title : WIS GRO VOCGC07
Last Update : Wed Sep 10 13:45:13 2014
Response via : Single Level Calibration
DataAcq Meth : VOCGC14A.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\112414\1124 22.D\FID1A.CH Vial: 22
Signal #2 : C:\HPCHEM\1\DATA\112414\1124 22.D\FID2B.CH
Acq On : 25 Nov 2014 12:29 am Operator: 621
Sample : CCV GRO 5.5g ppm 14K19014 Inst : VOCGC7
Misc : soil ISSURR14F10114 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS3.E
Quant Time: Nov 25 9:18 2014 Quant Results File: BG07I09N.RES

Quant Method : C:\HPCHEM\1\METHODS\BG07I09N.M (Chemstation Integrator)
Title : WIS GRO VOCGC07
Last Update : Wed Sep 10 13:45:13 2014
Response via : Initial Calibration
DataAcq Meth : VOCGC14A.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

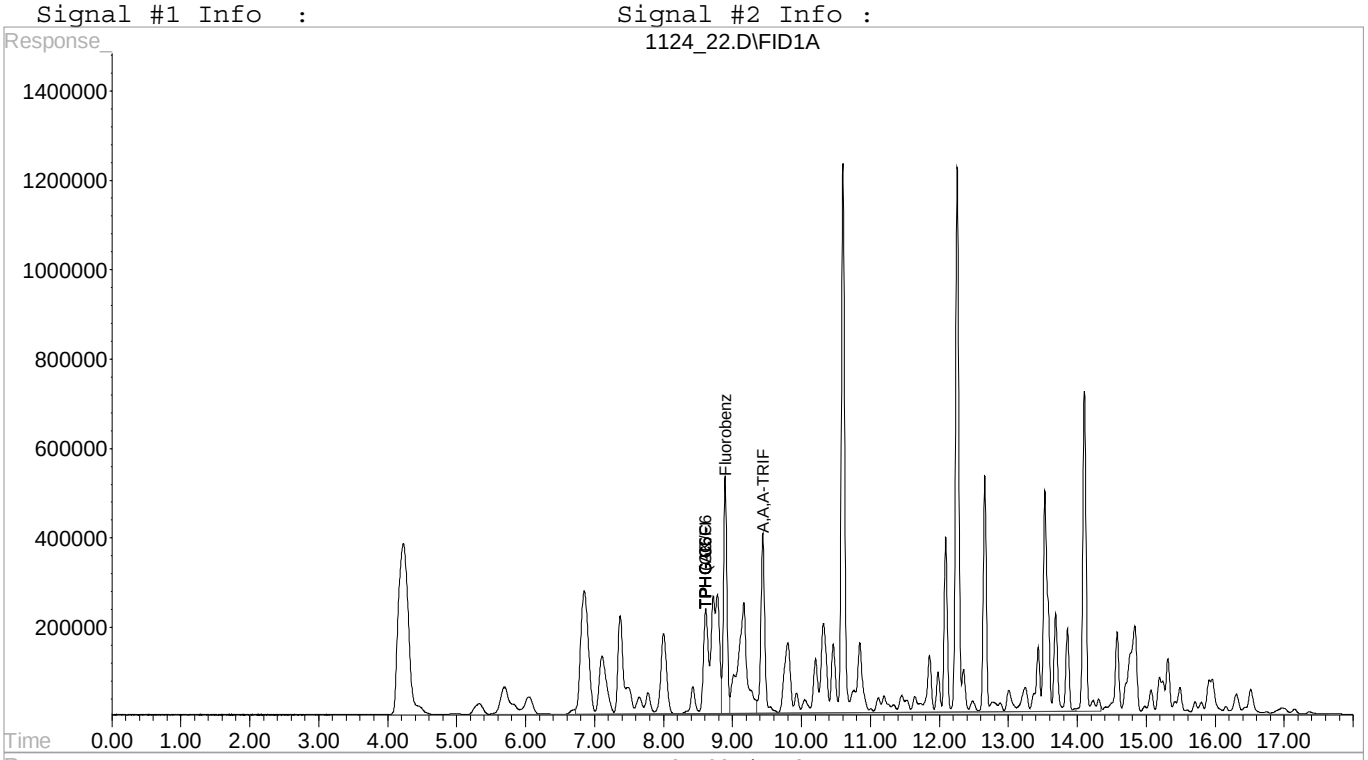
Compound	R.T.	Response	Conc	Units
Internal Standards				
1) I Fluorobenzene #1	8.90	18697979	200.0000000	ppb
9) I Fluorobenzene #2	8.90	11599436	200.0000000	ppb
System Monitoring Compounds				
7) S A,A,A-TRIFLUOROTOLUENE(FID	9.44	16466068	225.5129391	ppb
Spiked Amount 200.000 Range 59 - 128		Recovery = 112.76%		
10) S A,A,A-TRIFLUOROTOLUENE(PID	9.44	7147847	NoCal	ppb
Spiked Amount 200.000 Range 54 - 144		Recovery = 0.00%#		
Target Compounds				
2) H,M TPHG C4 - C12	0.00	18599	NoCal	ppm
3) H,M TPHG C5 - C12	8.61	452847474	5.0652888	ppm
4) H,M TPHG C6 - C12	8.61	442623760	5.0956000	ppm
5) H,M TPHGAK C6 to C10	8.61	341559123	4.9988976	ppm
6) h,m TPH (GC/FID) Low Fraction	8.61	367396366	5.0306741	ppm
11) T,M Methyl Tert-Butyl Ether	6.89	4647067	NoCal	ppb
12) T,M benzene	8.72	6352474	NoCal	ppb
13) T,M toluene	10.60	26456862	NoCal	ppb
14) T,M ethylbenzene	12.09	7876150	NoCal	ppb
15) T,M m&p-xylene	12.26	28590771	NoCal	ppb
16) T,M o-xylene	12.66	10195831	NoCal	ppb
17) T,M 1,3,5-Trimethylbenzene	13.69	6095995	NoCal	ppb
18) T,M 1,2,4-Trimethylbenzene	14.10	15593185	NoCal	ppb
19) T,M Naphthalene	17.37	216493	NoCal	ppb

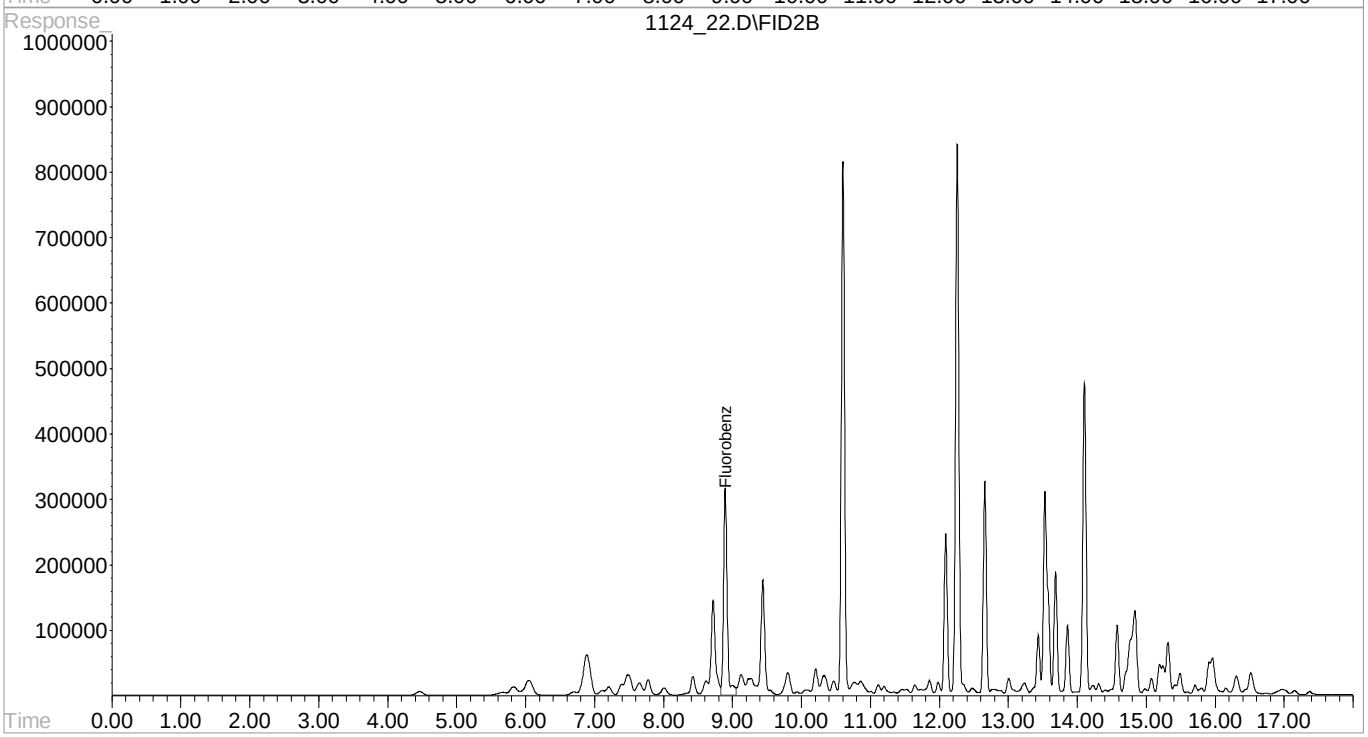
Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\112414\1124 22.D\FID1A.CH Vial: 22
Signal #2 : C:\HPCHEM\1\DATA\112414\1124 22.D\FID2B.CH
Acq On : 25 Nov 2014 12:29 am Operator: 621
Sample : CCV GRO 5.5g ppm 14K19014 Inst : VOCGC7
Misc : soil ISSURR14F10114 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS3.E
Quant Time: Nov 25 9:18 2014 Quant Results File: BG07I09N.RES

Quant Method : C:\HPCHEM\1\METHODS\BG07I09N.M (Chemstation Integrator)
Title : WIS GRO VOCGC07
Last Update : Wed Sep 10 13:45:13 2014
Response via : Single Level Calibration
DataAcq Meth : VOCGC14A.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\112414\1124 36.D\FID1A.CH Vial: 36
Signal #2 : C:\HPCHEM\1\DATA\112414\1124 36.D\FID2B.CH
Acq On : 25 Nov 2014 6:29 am Operator: 621
Sample : ICV GRO 5.5g ppm 14K19014 Inst : VOCGC7
Misc : water ISSURR14F10114 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS3.E
Quant Time: Nov 25 13:11 2014 Quant Results File: BG07I09N.RES

Quant Method : C:\HPCHEM\1\METHODS\BG07I09N.M (Chemstation Integrator)
Title : WIS GRO VOCGC07
Last Update : Wed Sep 10 13:45:13 2014
Response via : Initial Calibration
DataAcq Meth : VOCGC14A.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

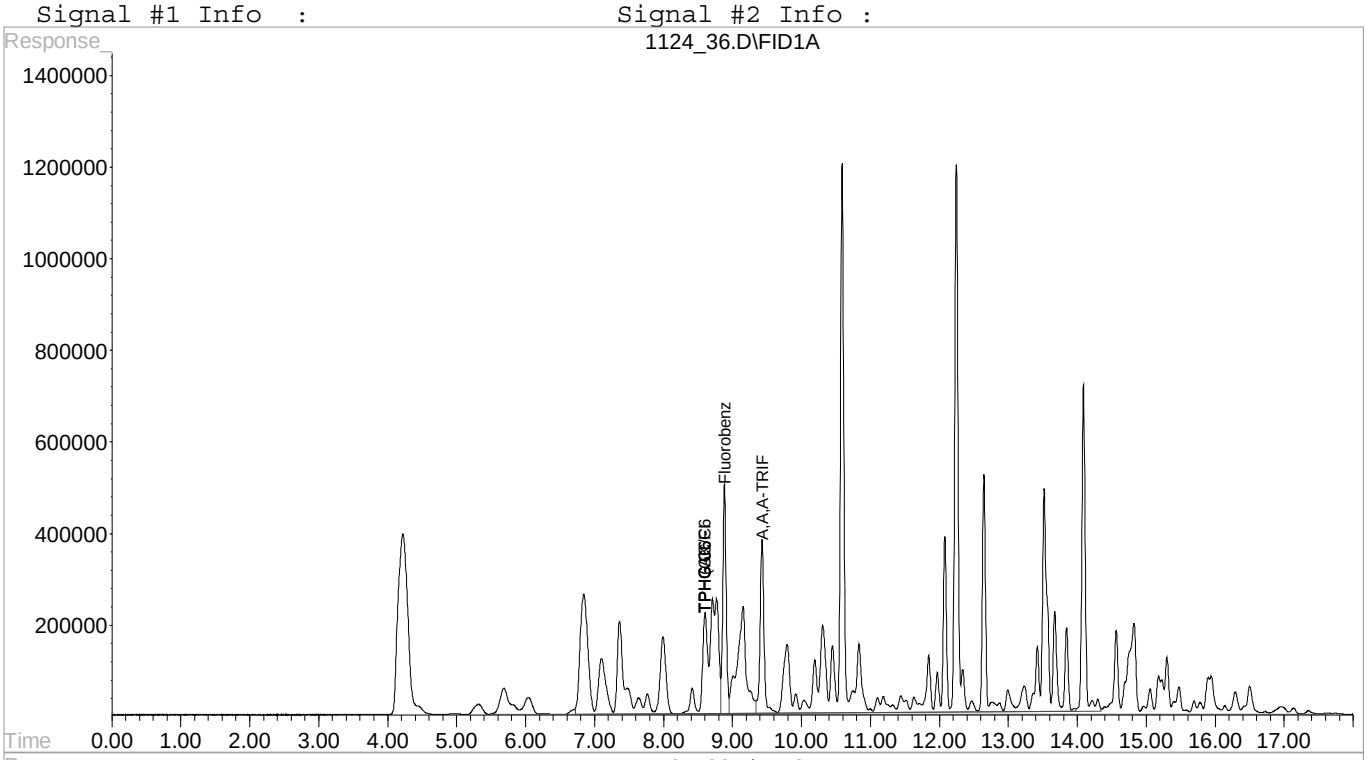
	Compound	R.T.	Response	Conc	Units
	Internal Standards				
1)	I Fluorobenzene #1	8.88	17706465	200.0000000	ppb
9)	I Fluorobenzene #2	8.89	11050163	200.0000000	ppb
	System Monitoring Compounds				
7)	S A,A,A-TRIFLUOROTOLUENE(FID	9.43	15609273	225.7496327	ppb
Spiked Amount	200.000 Range 62 - 128	Recovery = 112.87%			
10)	S A,A,A-TRIFLUOROTOLUENE(PID	9.43	6874002	NoCal	ppb
Spiked Amount	200.000 Range 55 - 122	Recovery = 0.00%#			
	Target Compounds				
2)	H,M TPHG C4 - C12	0.00	18152	NoCal	ppm
3)	H,M TPHG C5 - C12	8.61	440983396	5.2087956	ppm
4)	H,M TPHG C6 - C12	8.61	431429823	5.2448561	ppm
5)	H,M TPHGAK C6 to C10	8.61	330274334	5.1044151	ppm
6)	h,m TPH (GC/FID) Low Fraction	8.61	355988594	5.1474273	ppm
11)	T,M Methyl Tert-Butyl Ether	6.88	4607466	NoCal	ppb
12)	T,M benzene	8.71	6177016	NoCal	ppb
13)	T,M toluene	10.59	25868293	NoCal	ppb
14)	T,M ethylbenzene	12.08	7747184	NoCal	ppb
15)	T,M m&p-xylene	12.25	28183611	NoCal	ppb
16)	T,M o-xylene	12.65	10082824	NoCal	ppb
17)	T,M 1,3,5-Trimethylbenzene	13.67	6079545	NoCal	ppb
18)	T,M 1,2,4-Trimethylbenzene	14.09	15626362	NoCal	ppb
19)	T,M Naphthalene	17.35	357458	NoCal	ppb

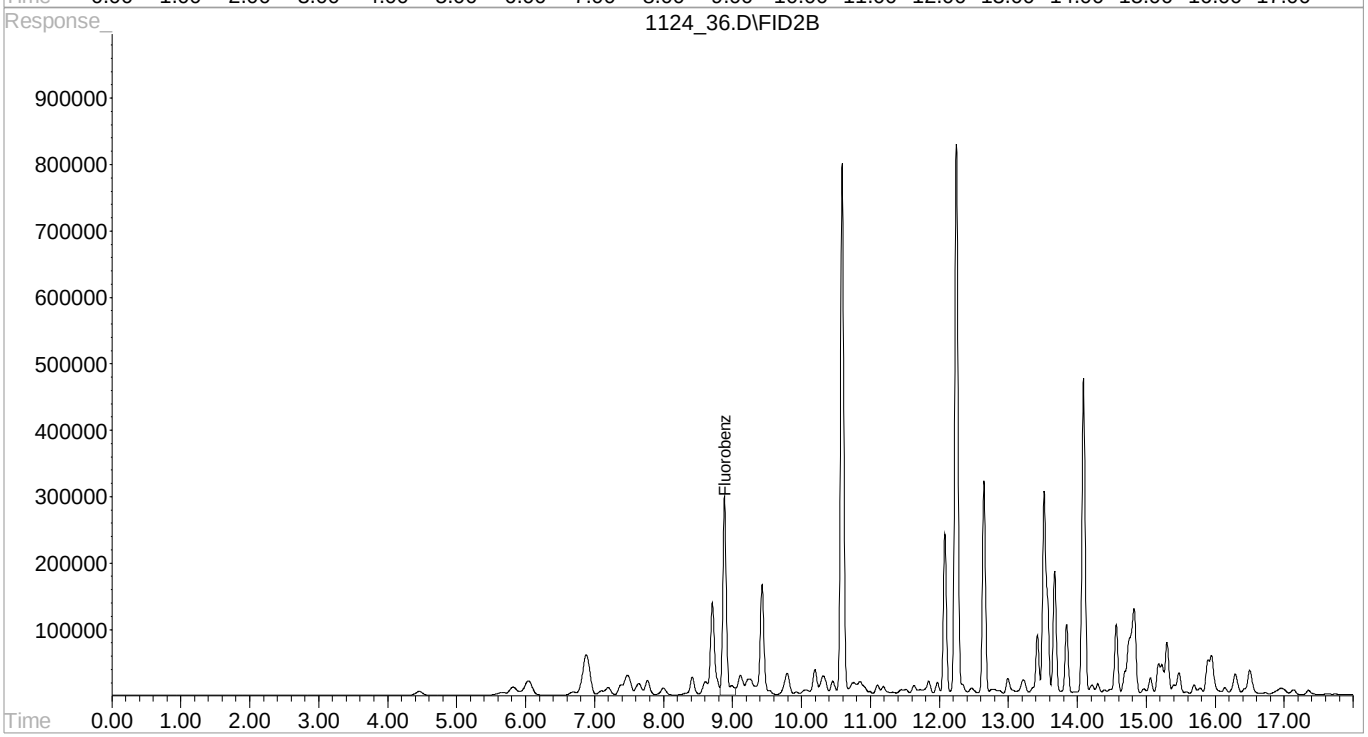
Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\112414\1124 36.D\FID1A.CH Vial: 36
Signal #2 : C:\HPCHEM\1\DATA\112414\1124 36.D\FID2B.CH
Acq On : 25 Nov 2014 6:29 am Operator: 621
Sample : ICV GRO 5.5g ppm 14K19014 Inst : VOCGC7
Misc : water ISSURR14F10114 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS3.E
Quant Time: Nov 25 13:11 2014 Quant Results File: BG07I09N.RES

Quant Method : C:\HPCHEM\1\METHODS\BG07I09N.M (Chemstation Integrator)
Title : WIS GRO VOCGC07
Last Update : Wed Sep 10 13:45:13 2014
Response via : Single Level Calibration
DataAcq Meth : VOCGC14A.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\112414\1124 56.D\FID1A.CH Vial: 56
Signal #2 : C:\HPCHEM\1\DATA\112414\1124 56.D\FID2B.CH
Acq On : 25 Nov 2014 3:02 pm Operator: 621
Sample : CCV GRO 5.5g ppm 14K19014 Inst : VOCGC7
Misc : water ISSURR14F10114 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS3.E
Quant Time: Nov 25 22:32 2014 Quant Results File: BG07I09N.RES

Quant Method : C:\HPCHEM\1\METHODS\BG07I09N.M (Chemstation Integrator)
Title : WIS GRO VOCGC07
Last Update : Wed Sep 10 13:45:13 2014
Response via : Initial Calibration
DataAcq Meth : VOCGC14A.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

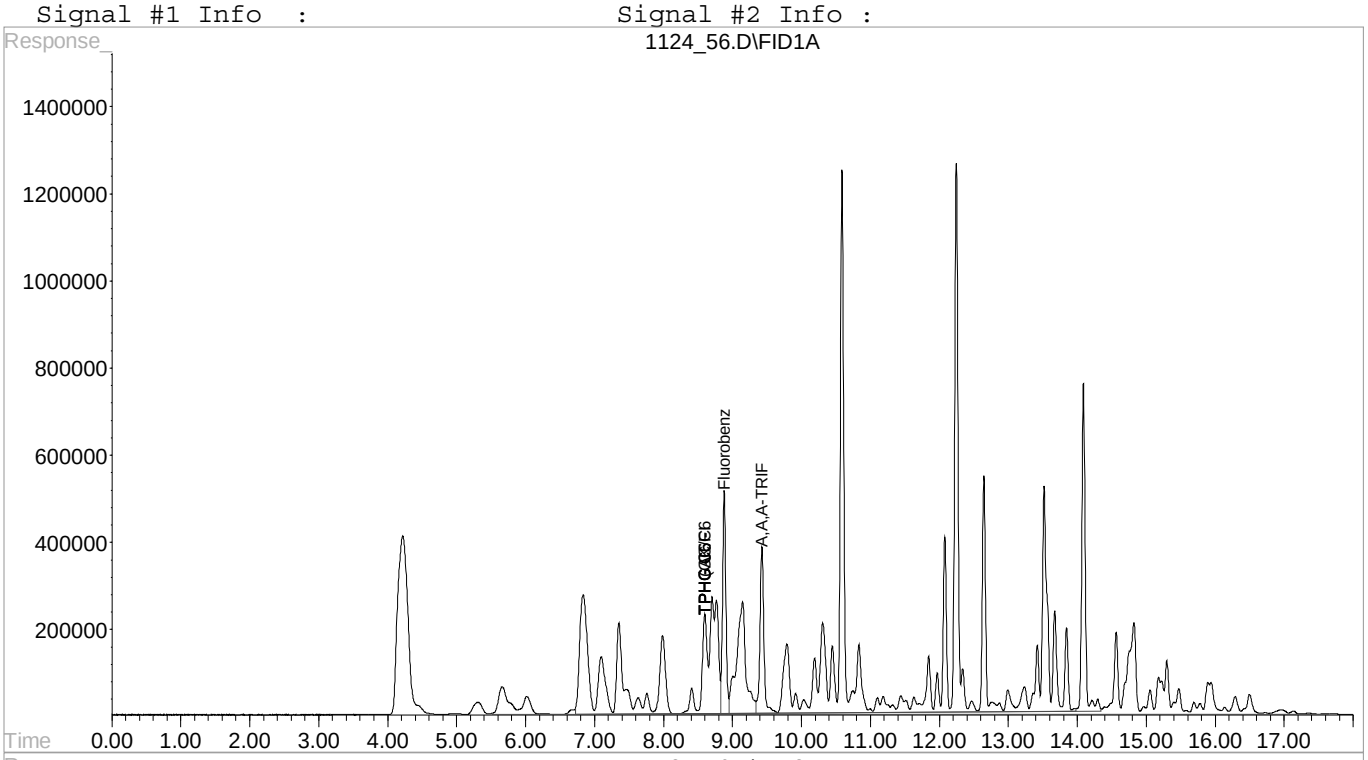
Compound	R.T.	Response	Conc	Units
Internal Standards				
1) I Fluorobenzene #1	8.88	17857083	200.0000000	ppb
9) I Fluorobenzene #2	8.88	11153178	200.0000000	ppb
System Monitoring Compounds				
7) S A,A,A-TRIFLUOROTOLUENE(FID	9.43	15809441	226.7160231	ppb
Spiked Amount 200.000 Range 62 - 128		Recovery = 113.36%		
10) S A,A,A-TRIFLUOROTOLUENE(PID	9.43	6982468	NoCal	ppb
Spiked Amount 200.000 Range 55 - 122		Recovery = 0.00%#		
Target Compounds				
2) H,M TPHG C4 - C12	0.00	13596	NoCal	ppm
3) H,M TPHG C5 - C12	8.61	460647160	5.3951661	ppm
4) H,M TPHG C6 - C12	8.61	450060669	5.4252009	ppm
5) H,M TPHGAK C6 to C10	8.61	348050034	5.3337688	ppm
6) h,m TPH (GC/FID) Low Fraction	8.61	375143159	5.3786405	ppm
11) T,M Methyl Tert-Butyl Ether	6.88	4808336	NoCal	ppb
12) T,M benzene	8.70	6452672	NoCal	ppb
13) T,M toluene	10.59	27020700	NoCal	ppb
14) T,M ethylbenzene	12.08	8148998	NoCal	ppb
15) T,M m&p-xylene	12.25	29792755	NoCal	ppb
16) T,M o-xylene	12.65	10565427	NoCal	ppb
17) T,M 1,3,5-Trimethylbenzene	13.67	6429937	NoCal	ppb
18) T,M 1,2,4-Trimethylbenzene	14.09	16654252	NoCal	ppb
19) T,M Naphthalene	17.35	121332	NoCal	ppb

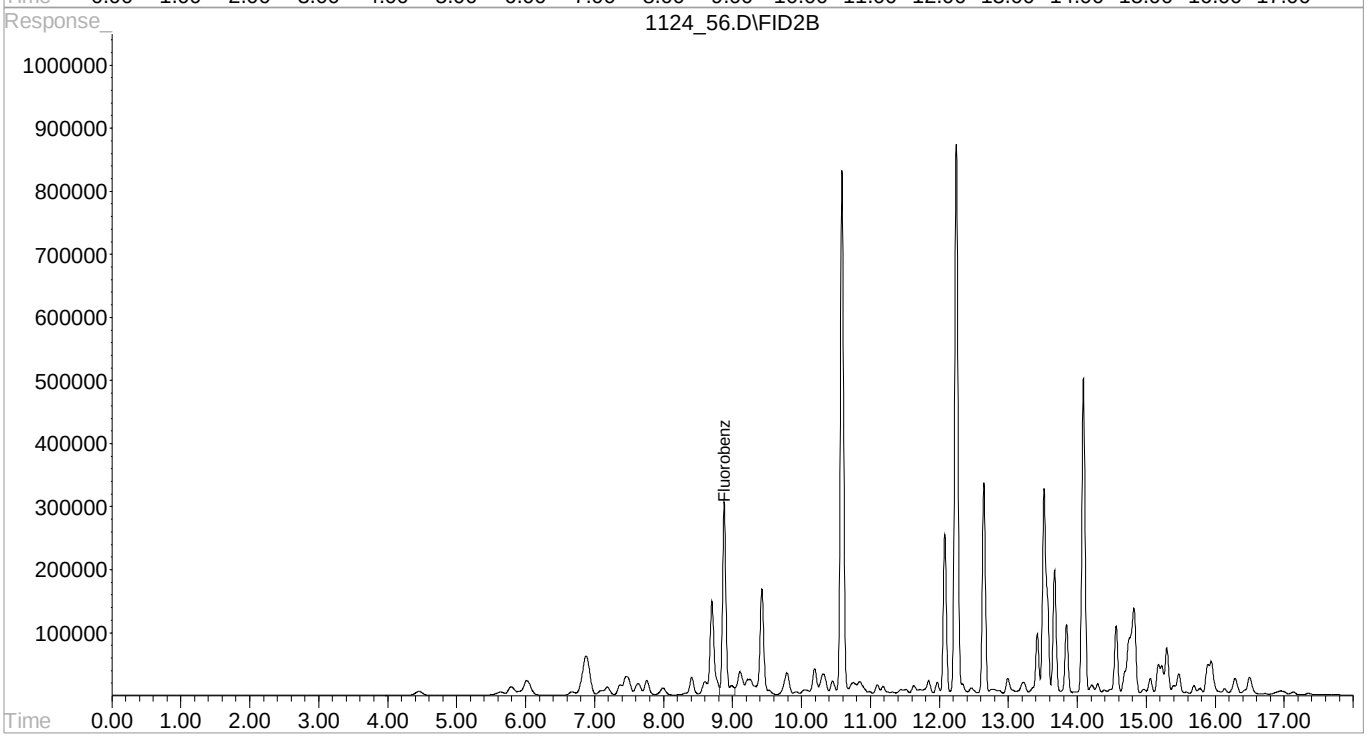
Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\112414\1124 56.D\FID1A.CH Vial: 56
Signal #2 : C:\HPCHEM\1\DATA\112414\1124 56.D\FID2B.CH
Acq On : 25 Nov 2014 3:02 pm Operator: 621
Sample : CCV GRO 5.5g ppm 14K19014 Inst : VOCGC7
Misc : water ISSURR14F10114 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS3.E
Quant Time: Nov 25 22:32 2014 Quant Results File: BG07I09N.RES

Quant Method : C:\HPCHEM\1\METHODS\BG07I09N.M (Chemstation Integrator)
Title : WIS GRO VOCGC07
Last Update : Wed Sep 10 13:45:13 2014
Response via : Single Level Calibration
DataAcq Meth : VOCGC14A.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Environmental Science Corporation
12065 Lebanon Rd., Mt. Juliet, TN 37122

Injection Log

Instrument ID : VOCGC7
Computer Name : VOCCOMPAC
Released By : John A. Heath Jr.
Date Released : 11/26/2014 1:15:53 PM
Run ID : 112414
Signature : _____

#	File ID	Sample ID	Method	WG	Product	Matrix	Account #	State	Dil.	Mult.	Injected	Misc.
1	1124_01	INSTBLK	BG07I09N						1	1	11/24/14 1407	"soil ISSURR14F10114"
2	1124_02	RT	BG07I09N						1	1	11/24/14 1432	"soil ISSURR14F10114"
3	1124_03	ICV GRO 5.5G PPM 14K19014	BG07I09N						1	1	11/24/14 1457	"soil ISSURR14F10114"
4	1124_04	LCSGRO	BG07I09N	WG756348	GRO	SS			1	1	11/24/14 1531	"soil ISSURR14F10114/SPK14K19015"
5	1124_05	LCSDGRO	BG07I09N	WG756348	GRO	SS			1	1	11/24/14 1556	"soil ISSURR14F10114/SPK14K19015"
6	1124_06	MSGRO	BG07I09N	WG756348	GRO	SS			1	1	11/24/14 1659	"soil ISSURR14F10114/SPK14K19015"
7	1124_07	MSDGRO	BG07I09N	WG756348	GRO	SS			1	1	11/24/14 1724	"soil ISSURR14F10114/SPK14K19015"
8	1124_08	INSTBLK	BG07I09N						1	1	11/24/14 1749	"soil ISSURR14F10114"
9	1124_09	BLANK	BG07I09N	WG756348	GRO	SS			1	1	11/24/14 1814	"soil ISSURR14F10114"
10	1124_10	L735302-01	BG07I09N	WG756348	GRO	SS	SMEKEN	GA	1	1	11/24/14 1927	"soil ISSURR14F10114"
11	1124_11	L734946-04	BG07I09N	WG756348	GRO	SS	EARCONOSMS	MS	1	0.58	11/24/14 1952	"soil ISSURR14F10114"
12	1124_12	L734946-11	BG07I09N	WG756348	GRO	SS	EARCONOSMS	MS	1	1	11/24/14 2017	"soil ISSURR14F10114"
13	1124_13	L734946-14	BG07I09N	WG756348	GRO	SS	EARCONOSMS	MS	1	1	11/24/14 2042	"soil ISSURR14F10114"
14	1124_14	L734946-18	BG07I09N	WG756348	GRO	SS	EARCONOSMS	MS	12	12	11/24/14 2107	"soil ISSURR14F10114"
15	1124_15	L734946-21	BG07I09N	WG756348	GRO	SS	EARCONOSMS	MS	47	47	11/24/14 2132	"soil ISSURR14F10114"
16	1124_16	L734946-22	BG07I09N	WG756348	GRO	SS	EARCONOSMS	MS	104	104	11/24/14 2158	"soil ISSURR14F10114"
17	1124_17	L734946-23	BG07I09N	WG756348	GRO	SS	EARCONOSMS	MS	110	110	11/24/14 2223	"soil ISSURR14F10114"
18	1124_18	L734946-24	BG07I09N	WG756348	GRO	SS	EARCONOSMS	MS	1	1	11/24/14 2248	"soil ISSURR14F10114"
19	1124_19	L734231-07	BG07I09N	WG756348	GRO	SS	URSTAZ	AZ	23	23	11/24/14 2313	"soil ISSURR14F10114"
20	1124_20	INSTBLK	BG07I09N						1	1	11/24/14 2338	"soil ISSURR14F10114"
21	1124_21	RT	BG07I09N						1	1	11/25/14 0004	"soil ISSURR14F10114"
22	1124_22	CCV GRO 5.5G PPM 14K19014	BG07I09N						1	1	11/25/14 0029	"soil ISSURR14F10114"

Environmental Science Corporation
12065 Lebanon Rd., Mt. Juliet, TN 37122

Injection Log

Instrument ID : VOCGC7
Computer Name : VOCCOMPAC
Released By : John A. Heath Jr.
Date Released : 11/26/2014 1:15:53 PM
Run ID : 112414
Signature : _____

#	File ID	Sample ID	Method	WG	Product	Matrix	Account #	State	Dil.	Mult.	Injected	Misc.
23	1124_23	INSTBLK	BG07I09N						1	1	11/25/14 0102	"soil ISSURR14F10114"
24	1124_24	L734231-08	BG07I09N	WG756348	GRO	SS	URSTAZ	AZ	22.25	22.25	11/25/14 0127	"soil ISSURR14F10114"
25	1124_25	L734241-01	BG07I09N	WG756348	GROWY	SS	DELTAUT	WY	5	5	11/25/14 0152	"soil ISSURR14F10114"
26	1124_26	L734241-02	BG07I09N	WG756348	GROWY	SS	DELTAUT	WY	5	5	11/25/14 0217	"soil ISSURR14F10114"
27	1124_27	L734241-03	BG07I09N	WG756348	GROWY	SS	DELTAUT	WY	5	5	11/25/14 0242	"soil ISSURR14F10114"
28	1124_28	L735183-19	BG07I09N	WG756348	NWTPHGX	SS	PBSENGPOR	OR	1	0.8	11/25/14 0307	"soil ISSURR14F10114"
29	1124_29	L735183-20	BG07I09N	WG756348	NWTPHGX	SS	PBSENGPOR	OR	1	1	11/25/14 0333	"soil ISSURR14F10114"
30	1124_30	L735302-02	BG07I09N	WG756348	GRO	SS	SMEKEN	GA	1	0.74	11/25/14 0358	"soil ISSURR14F10114"
31	1124_31	L735302-03	BG07I09N	WG756348	GRO	SS	SMEKEN	GA	1	0.85	11/25/14 0423	"soil ISSURR14F10114"
32	1124_32	L734621-01	BG07I09N	WG756348	GRO	SS	OXYGJCO	CO	5	5	11/25/14 0448	"soil ISSURR14F10114"
33	1124_33	L734621-02	BG07I09N	WG756348	GRO	SS	OXYGJCO	CO	5	5	11/25/14 0513	"soil ISSURR14F10114"
34	1124_34	INSTBLK	BG07I09N						1	1	11/25/14 0539	"water ISSURR14F10114"
35	1124_35	RT	BG07I09N						1	1	11/25/14 0604	"water ISSURR14F10114"
36	1124_36	ICV GRO 5.5G PPM 14K19014	BG07I09N						1	1	11/25/14 0629	"water ISSURR14F10114"
37	1124_37	LCSGRO	BG07I09N	WG756337	GRO	GW			1	1	11/25/14 0654	"water ISSURR14F10114/SPK14K19015"
38	1124_38	LCSDGRO	BG07I09N	WG756337	GRO	GW			1	1	11/25/14 0720	"water ISSURR14F10114/SPK14K19015"
39	1124_39	MSGRO	BG07I09N	WG756337	GRO	GW			1	1	11/25/14 0745	"water ISSURR14F10114/SPK14K19015"
40	1124_40	MSDGRO	BG07I09N	WG756337	GRO	GW			1	1	11/25/14 0810	"water ISSURR14F10114/SPK14K19015"
41	1124_41	INSTBLK	BG07I09N						1	1	11/25/14 0836	"water ISSURR14F10114"
42	1124_42	BLANK	BG07I09N	WG756337	GRO	GW			1	1	11/25/14 0901	"water ISSURR14F10114"
43	1124_43	L734231-26	BG07I09N	WG756337	GRO	GW	URSTAZ	AZ	1	1	11/25/14 0926	"water ISSURR14F10114"
44	1124_44	L734718-15	BG07I09N	WG756337	GRO	GW	URSTAZ	AZ	1	1	11/25/14 0951	"water ISSURR14F10114"
45	1124_45	L735138-01	BG07I09N	WG756337	GRO	GW	PINNENGMN	ND	1	1	11/25/14 1016	"water ISSURR14F10114"

Environmental Science Corporation
12065 Lebanon Rd., Mt. Juliet, TN 37122

Injection Log

Instrument ID : VOCGC7
Computer Name : VOCCOMPAC
Released By : John A. Heath Jr.
Date Released : 11/26/2014 1:15:53 PM
Run ID : 112414
Signature : _____

#	File ID	Sample ID	Method	WG	Product	Matrix	Account #	State	Dil.	Mult.	Injected	Misc.
46	1124_46	L734231-14	BG07I09N	WG756337	GRO	GW	URSTAZ	AZ	1	1	11/25/14 1041	"water ISSURR14F10114"
47	1124_47	L734231-17	BG07I09N	WG756337	GRO	GW	URSTAZ	AZ	1	1	11/25/14 1107	"water ISSURR14F10114"
48	1124_48	L734231-22	BG07I09N	WG756337	GRO	GW	URSTAZ	AZ	1	1	11/25/14 1132	"water ISSURR14F10114"
49	1124_49	L734231-25	BG07I09N	WG756337	GRO	GW	URSTAZ	AZ	1	1	11/25/14 1157	"water ISSURR14F10114"
50	1124_50	DNR L734603-04	BG07I09N	WG756337					5	5	11/25/14 1222	"water ISSURR14F10114"
51	1124_51	L734718-11	BG07I09N	WG756337	GRO	GW	URSTAZ	AZ	1	1	11/25/14 1247	"water ISSURR14F10114"
52	1124_52	L734718-12	BG07I09N	WG756337	GRO	GW	URSTAZ	AZ	1	1	11/25/14 1312	"water ISSURR14F10114"
53	1124_53	INSTBLK	BG07I09N						1	1	11/25/14 1337	"water ISSURR14F10114"
54	1124_54	RT	BG07I09N						1	1	11/25/14 1402	"water ISSURR14F10114"
55	1124_55	DNR CCV GRO 5.5G PPM 14K19014	BG07I09N						1	1	11/25/14 1427	"water ISSURR14F10114"
56	1124_56	CCV GRO 5.5G PPM 14K19014	BG07I09N						1	1	11/25/14 1502	"water ISSURR14F10114"
57	1124_57	INSTBLK	BG07I09N						1	1	11/25/14 1538	"water ISSURR14F10114"
58	1124_58	L734718-13	BG07I09N	WG756337	GRO	GW	URSTAZ	AZ	1	1	11/25/14 1603	"water ISSURR14F10114"
59	1124_59	L734718-14	BG07I09N	WG756337	GRO	GW	URSTAZ	AZ	1	1	11/25/14 1628	"water ISSURR14F10114"
60	1124_60	L734304-02	BG07I09N	WG756337	GRO	GW	KINARCPAZ	AZ	1	1	11/25/14 1653	"water ISSURR14F10114"
61	1124_61	L734304-03	BG07I09N	WG756337	GRO	GW	KINARCPAZ	AZ	1	1	11/25/14 1718	"water ISSURR14F10114"
62	1124_62	L734406-19	BG07I09N	WG756337	GRO	GW	SHAWILSLMO	MO	10	10	11/25/14 1743	"water ISSURR14F10114"
63	1124_63	L735512-01	BG07I09N	WG756337	GRO	GW	OXYGJCO	CO	1	1	11/25/14 1808	"water ISSURR14F10114"
64	1124_64	L735520-01	BG07I09N	WG756337	GRO	GW	OXYGJCO	CO	1	1	11/25/14 1833	"water ISSURR14F10114"
65	1124_65	L735520-02	BG07I09N	WG756337	GRO	GW	OXYGJCO	CO	1	1	11/25/14 1858	"water ISSURR14F10114"
66	1124_66	L735520-03	BG07I09N	WG756337	GRO	GW	OXYGJCO	CO	1	1	11/25/14 1923	"water ISSURR14F10114"

Environmental Science Corporation
12065 Lebanon Rd., Mt. Juliet, TN 37122

Injection Log

Instrument ID : VOCGC7
Computer Name : VOCCOMPAC
Released By : John A. Heath Jr.
Date Released : 11/26/2014 1:15:54 PM
Run ID : 112414
Signature : _____

#	File ID	Sample ID	Method	WG	Product	Matrix	Account #	State	Dil.	Mult.	Injected	Misc.
67	1124_67	L735520-04	BG07I09N	WG756337	GRO	GW	OXYGJCO	CO	1	1	11/25/14 1948	"water ISSURR14F10114"
68	1124_68	INSTBLK	BG07I09N						1	1	11/25/14 2023	"water ISSURR14F10114"
69	1124_69	RT	BG07I09N						1	1	11/25/14 2048	"water ISSURR14F10114"
70	1124_70	ICV GRO 5.5G PPM 14K19014	BG07I09N						1	1	11/25/14 2113	"water ISSURR14F10114"
71	1124_71	LCSGRO	BG07I09N	WG756338	GRO	GW			1	1	11/25/14 2201	"water ISSURR14F10114/SPK14K19015"
72	1124_72	LCSDGRO	BG07I09N	WG756338	GRO	GW			1	1	11/25/14 2226	"water ISSURR14F10114/SPK14K19015"
73	1124_73	MSGRO	BG07I09N	WG756338	GRO	GW			1	1	11/25/14 2251	"water ISSURR14F10114/SPK14K19015"
74	1124_74	MSDGRO	BG07I09N	WG756338	GRO	GW			1	1	11/25/14 2316	"water ISSURR14F10114/SPK14K19015"
75	1124_75	INSTBLK	BG07I09N						1	1	11/25/14 2341	"water ISSURR14F10114"
76	1124_76	BLANK	BG07I09N	WG756338	GRO	GW			1	1	11/26/14 0007	"water ISSURR14F10114"
77	1124_77	L735181-01	BG07I09N	WG756338	GRO	GW	URSTAZ	AZ	1	1	11/26/14 0138	"water ISSURR14F10114"
78	1124_78	L735268-01	BG07I09N	WG756338	GROWY	GW	DELTAUT	WY	1	1	11/26/14 0203	"water ISSURR14F10114"
79	1124_79	L735171-09	BG07I09N	WG756338	GRO	GW	EARTOULUT	UT	1	1	11/26/14 0228	"water ISSURR14F10114"
80	1124_80	L735171-12	BG07I09N	WG756338	GRO	GW	EARTOULUT	UT	1	1	11/26/14 0254	"water ISSURR14F10114"
81	1124_81	L735181-02	BG07I09N	WG756338	GRO	GW	URSTAZ	AZ	1	1	11/26/14 0319	"water ISSURR14F10114"
82	1124_82	L735181-05	BG07I09N	WG756338	GRO	GW	URSTAZ	AZ	1	1	11/26/14 0344	"water ISSURR14F10114"
83	1124_83	L735181-07	BG07I09N	WG756338	GRO	GW	URSTAZ	AZ	1	1	11/26/14 0409	"water ISSURR14F10114"
84	1124_84	L735181-10	BG07I09N	WG756338	GRO	GW	URSTAZ	AZ	1	1	11/26/14 0434	"water ISSURR14F10114"
85	1124_85	L735184-01	BG07I09N	WG756338	GROCA	GW	TRINITYSCCA	CA	1	1	11/26/14 0500	"water ISSURR14F10114"
86	1124_86	L735184-02	BG07I09N	WG756338	GROCA	GW	TRINITYSCCA	CA	1	1	11/26/14 0525	"water ISSURR14F10114"
87	1124_87	INSTBLK	BG07I09N						1	1	11/26/14 0550	"water ISSURR14F10114"
88	1124_88	RT	BG07I09N						1	1	11/26/14 0615	"water ISSURR14F10114"

Environmental Science Corporation
12065 Lebanon Rd., Mt. Juliet, TN 37122

Injection Log

Instrument ID : VOCGC7
Computer Name : VOCCOMPAC
Released By : John A. Heath Jr.
Date Released : 11/26/2014 1:15:54 PM
Run ID : 112414
Signature : _____

#	File ID	Sample ID	Method	WG	Product	Matrix	Account #	State	Dil.	Mult.	Injected	Misc.
89	1124_89	CCV GRO 5.5G PPM 14K19014	BG07I09N						1	1	11/26/14 0641	"water ISSURR14F10114"
90	1124_90	INSTBLK	BG07I09N						1	1	11/26/14 0719	"water ISSURR14F10114"
91	1124_91	L735190-01	BG07I09N	WG756338	GRO	GW	PINNENGMN	ND	1	1	11/26/14 0744	"water ISSURR14F10114"
92	1124_92	L735190-02	BG07I09N	WG756338	GRO	GW	PINNENGMN	ND	1	1	11/26/14 0809	"water ISSURR14F10114"
93	1124_93	L735190-03	BG07I09N	WG756338	GRO	GW	PINNENGMN	ND	1	1	11/26/14 0834	"water ISSURR14F10114"
94	1124_94	L735190-04	BG07I09N	WG756338	GRO	GW	PINNENGMN	ND	1	1	11/26/14 0859	"water ISSURR14F10114"
95	1124_95	L735268-02	BG07I09N	WG756338	GROWY	GW	DELTAUT	WY	1	1	11/26/14 0924	"water ISSURR14F10114"
96	1124_96	L735268-03	BG07I09N	WG756338	GROWY	GW	DELTAUT	WY	1	1	11/26/14 0949	"water ISSURR14F10114"
97	1124_97	L735270-01	BG07I09N	WG756338	GROWY	GW	DELTAUT	WY	1	1	11/26/14 1015	"water ISSURR14F10114"
98	1124_98	L735270-02	BG07I09N	WG756338	GROWY	GW	DELTAUT	WY	1	1	11/26/14 1040	"water ISSURR14F10114"
99	1124_99	DNR L735271-01	BG07I09N	WG756338					10	10	11/26/14 1105	"water ISSURR14F10114"
100	1124_99A	DNR L735272-01	BG07I09N	WG756338					1	1	11/26/14 1130	"water ISSURR14F10114"

Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\112414\1124 70.D\FID1A.CH Vial: 69
Signal #2 : C:\HPCHEM\1\DATA\112414\1124 70.D\FID2B.CH
Acq On : 25 Nov 2014 9:13 pm Operator: 621
Sample : ICV GRO 5.5g ppm 14K19014 Inst : VOCGC7
Misc : water ISSURR14F10114 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS3.E
Quant Time: Nov 26 12:50 2014 Quant Results File: BG07I09N.RES

Quant Method : C:\HPCHEM\1\METHODS\BG07I09N.M (Chemstation Integrator)
Title : WIS GRO VOCGC07
Last Update : Wed Sep 10 13:45:13 2014
Response via : Initial Calibration
DataAcq Meth : VOCGC14A.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

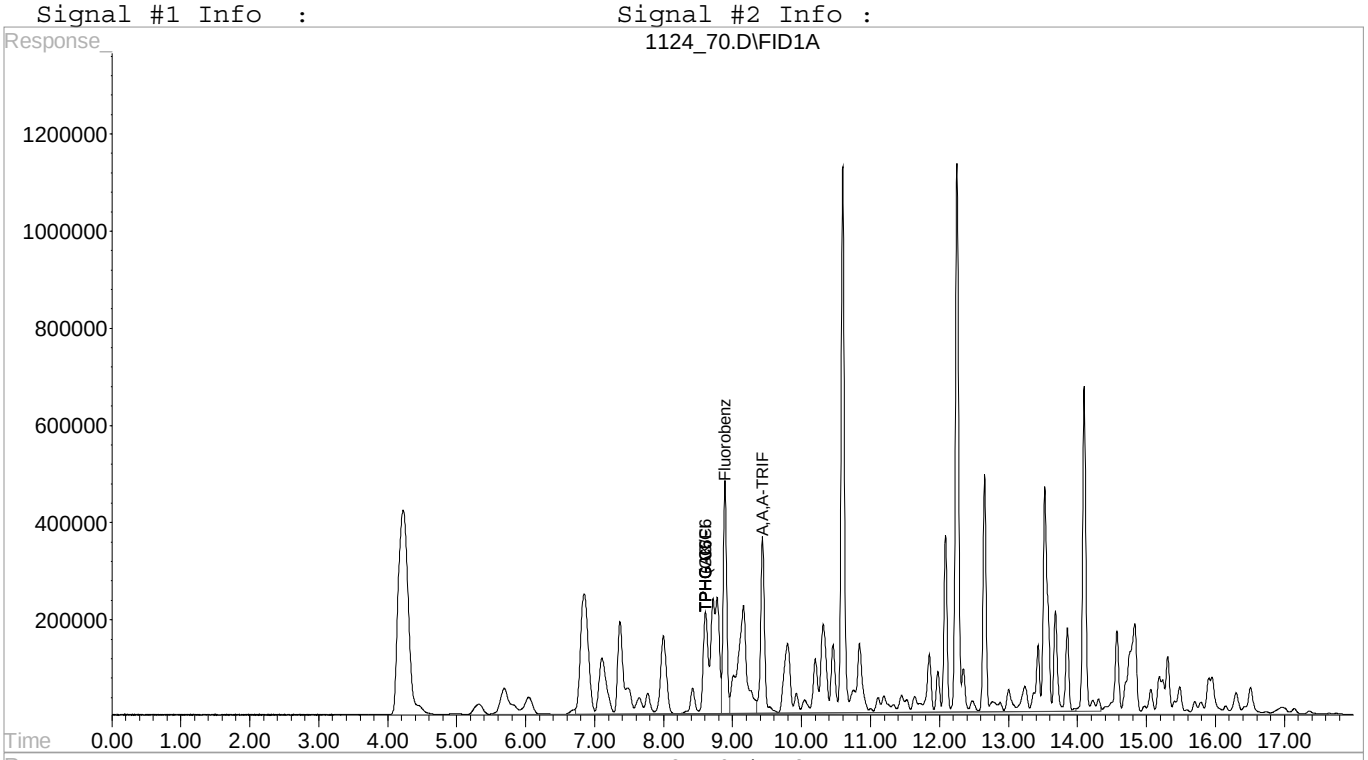
Compound	R.T.	Response	Conc	Units
Internal Standards				
1) I Fluorobenzene #1	8.89	17004951	200.0000000	ppb
9) I Fluorobenzene #2	8.89	10634713	200.0000000	ppb
System Monitoring Compounds				
7) S A,A,A-TRIFLUOROTOLUENE(FID	9.44	14975218	225.5142433	ppb
Spiked Amount 200.000 Range 62 - 128		Recovery = 112.76%		
10) S A,A,A-TRIFLUOROTOLUENE(PID	9.44	6564775	NoCal	ppb
Spiked Amount 200.000 Range 55 - 122		Recovery = 0.00%#		
Target Compounds				
2) H,M TPHG C4 - C12	0.00	17352	NoCal	ppm
3) H,M TPHG C5 - C12	8.61	418036621	5.1414530	ppm
4) H,M TPHG C6 - C12	8.61	409051902	5.1779553	ppm
5) H,M TPHGAK C6 to C10	8.61	313566367	5.0461145	ppm
6) h,m TPH (GC/FID) Low Fraction	8.61	337745640	5.0851101	ppm
11) T,M Methyl Tert-Butyl Ether	6.89	4392411	NoCal	ppb
12) T,M benzene	8.71	5830460	NoCal	ppb
13) T,M toluene	10.60	24528694	NoCal	ppb
14) T,M ethylbenzene	12.09	7382012	NoCal	ppb
15) T,M m&p-xylene	12.25	26830096	NoCal	ppb
16) T,M o-xylene	12.65	9531316	NoCal	ppb
17) T,M 1,3,5-Trimethylbenzene	13.68	5771691	NoCal	ppb
18) T,M 1,2,4-Trimethylbenzene	14.10	14881390	NoCal	ppb
19) T,M Naphthalene	17.36	309403	NoCal	ppb

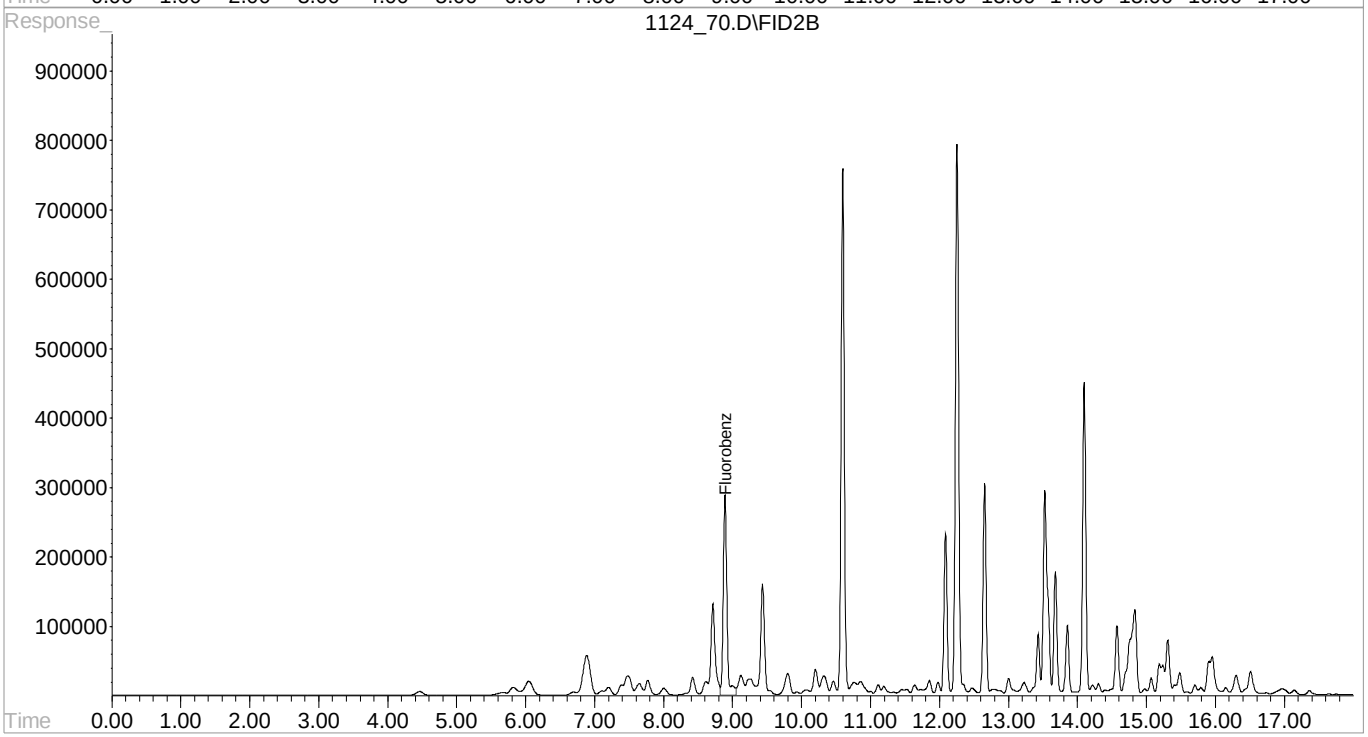
Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\112414\1124 70.D\FID1A.CH Vial: 69
Signal #2 : C:\HPCHEM\1\DATA\112414\1124 70.D\FID2B.CH
Acq On : 25 Nov 2014 9:13 pm Operator: 621
Sample : ICV GRO 5.5g ppm 14K19014 Inst : VOCGC7
Misc : water ISSURR14F10114 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS3.E
Quant Time: Nov 26 12:50 2014 Quant Results File: BG07I09N.RES

Quant Method : C:\HPCHEM\1\METHODS\BG07I09N.M (Chemstation Integrator)
Title : WIS GRO VOCGC07
Last Update : Wed Sep 10 13:45:13 2014
Response via : Single Level Calibration
DataAcq Meth : VOCGC14A.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\112414\1124 71.D\FID1A.CH Vial: 70
Signal #2 : C:\HPCHEM\1\DATA\112414\1124 71.D\FID2B.CH
Acq On : 25 Nov 2014 10:01 pm Operator: 621
Sample : LCSGRO 1x WG756338 Inst : VOCGC7
Misc : water ISSURR14F10114/SPK14K19015 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS3.E
Quant Time: Nov 26 12:50 2014 Quant Results File: BG07I09N.RES

Quant Method : C:\HPCHEM\1\METHODS\BG07I09N.M (Chemstation Integrator)
Title : WIS GRO VOCGC07
Last Update : Wed Sep 10 13:45:13 2014
Response via : Initial Calibration
DataAcq Meth : VOCGC14A.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

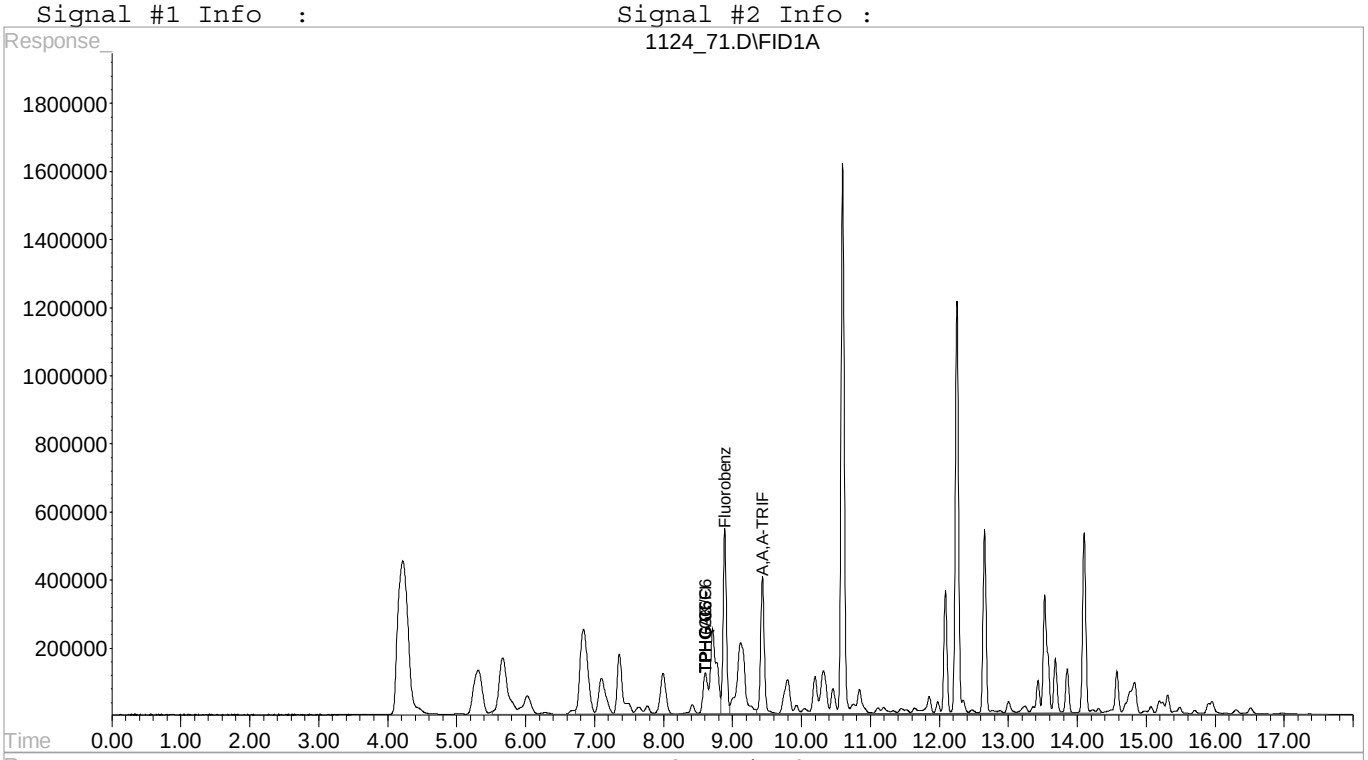
Compound	R.T.	Response	Conc	Units
Internal Standards				
1) I Fluorobenzene #1	8.89	18782536	200.0000000	ppb
9) I Fluorobenzene #2	8.89	11478111	200.0000000	ppb
System Monitoring Compounds				
7) S A,A,A-TRIFLUOROTOLUENE(FID	9.44	15464471	210.8419699	ppb
Spiked Amount 200.000 Range 62 - 128		Recovery = 105.42%		
10) S A,A,A-TRIFLUOROTOLUENE(PID	9.44	6862381	NoCal	ppb
Spiked Amount 200.000 Range 55 - 122		Recovery = 0.00%#		
Target Compounds				
2) H,M TPHG C4 - C12	0.00	14094	NoCal	ppm
3) H,M TPHG C5 - C12	8.61	348766506	3.8835373	ppm
4) H,M TPHG C6 - C12	8.61	328208914	3.7614165	ppm
5) H,M TPHGAK C6 to C10	8.61	273368269	3.9828770	ppm
6) h,m TPH (GC/FID) Low Fraction	8.61	291664691	3.9757185	ppm
11) T,M Methyl Tert-Butyl Ether	6.88	4037550	NoCal	ppb
12) T,M benzene	8.71	6570806	NoCal	ppb
13) T,M toluene	10.60	34159615	NoCal	ppb
14) T,M ethylbenzene	12.09	7313173	NoCal	ppb
15) T,M m&p-xylene	12.26	28445430	NoCal	ppb
16) T,M o-xylene	12.66	10532358	NoCal	ppb
17) T,M 1,3,5-Trimethylbenzene	13.68	4530875	NoCal	ppb
18) T,M 1,2,4-Trimethylbenzene	14.10	11774187	NoCal	ppb
19) T,M Naphthalene	17.37	60512	NoCal	ppb

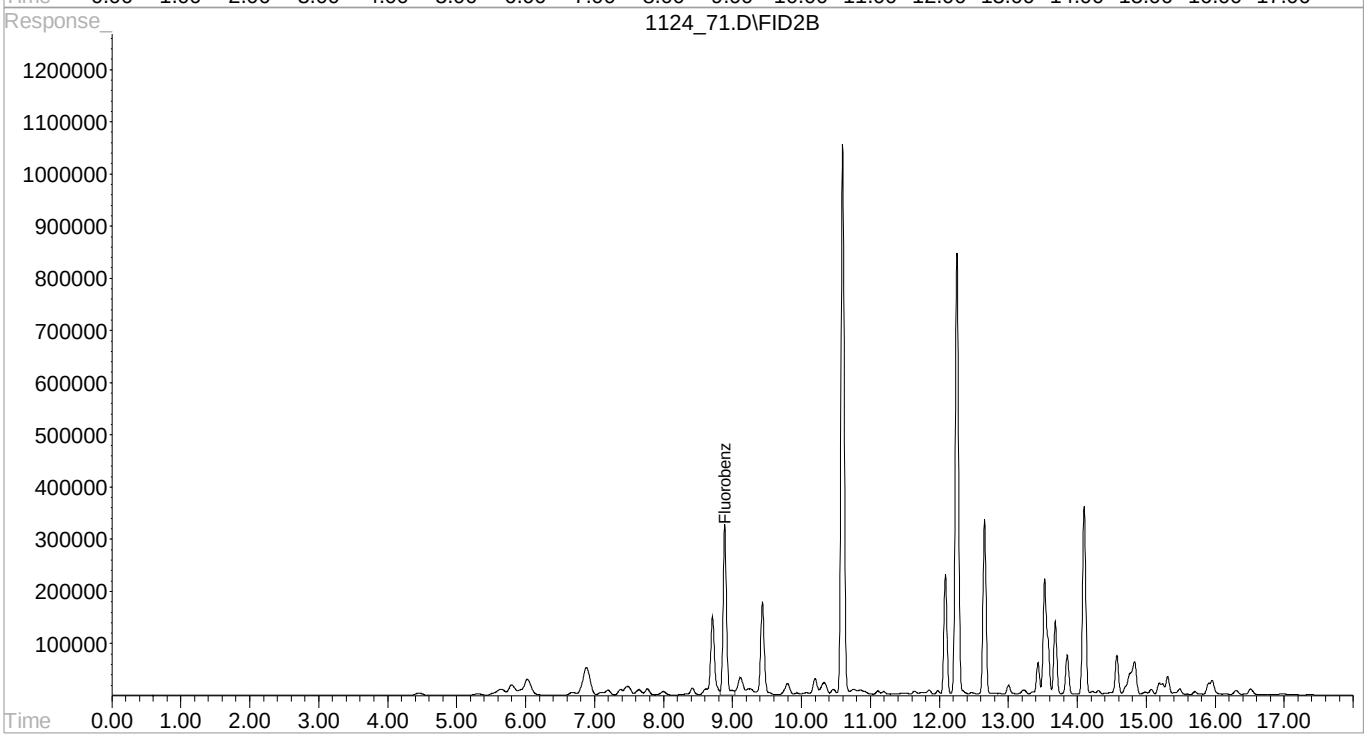
Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\112414\1124 71.D\FID1A.CH Vial: 70
Signal #2 : C:\HPCHEM\1\DATA\112414\1124 71.D\FID2B.CH
Acq On : 25 Nov 2014 10:01 pm Operator: 621
Sample : LCSGRO 1x WG756338 Inst : VOCGC7
Misc : water ISSURR14F10114/SPK14K19015 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS3.E
Quant Time: Nov 26 12:50 2014 Quant Results File: BG07I09N.RES

Quant Method : C:\HPCHEM\1\METHODS\BG07I09N.M (Chemstation Integrator)
Title : WIS GRO VOCGC07
Last Update : Wed Sep 10 13:45:13 2014
Response via : Single Level Calibration
DataAcq Meth : VOCGC14A.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\112414\1124 72.D\FID1A.CH Vial: 71
Signal #2 : C:\HPCHEM\1\DATA\112414\1124 72.D\FID2B.CH
Acq On : 25 Nov 2014 10:26 pm Operator: 621
Sample : LCSDGRO 1x WG756338 Inst : VOCGC7
Misc : water ISSURR14F10114/SPK14K19015 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS3.E
Quant Time: Nov 26 12:50 2014 Quant Results File: BG07I09N.RES

Quant Method : C:\HPCHEM\1\METHODS\BG07I09N.M (Chemstation Integrator)
Title : WIS GRO VOCGC07
Last Update : Wed Sep 10 13:45:13 2014
Response via : Initial Calibration
DataAcq Meth : VOCGC14A.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

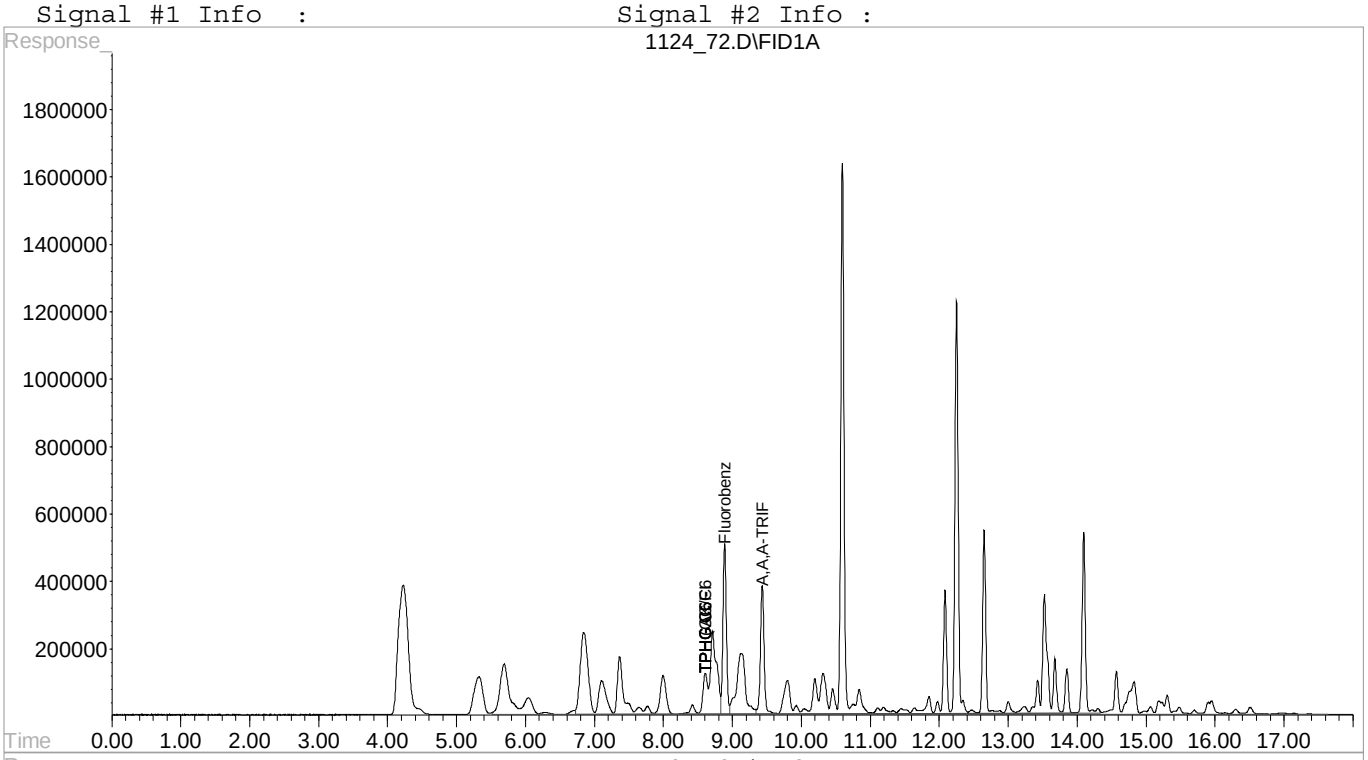
Compound	R.T.	Response	Conc	Units
Internal Standards				
1) I Fluorobenzene #1	8.89	17731249	200.0000000	ppb
9) I Fluorobenzene #2	8.89	10845435	200.0000000	ppb
System Monitoring Compounds				
7) S A,A,A-TRIFLUOROTOLUENE(FID	9.43	14620160	211.1489845	ppb
Spiked Amount 200.000 Range 62 - 128		Recovery = 105.57%		
10) S A,A,A-TRIFLUOROTOLUENE(PID	9.43	6490193	NoCal	ppb
Spiked Amount 200.000 Range 55 - 122		Recovery = 0.00%#		
Target Compounds				
2) H,M TPHG C4 - C12	0.00	16686	NoCal	ppm
3) H,M TPHG C5 - C12	8.61	348922924	4.1156373	ppm
4) H,M TPHG C6 - C12	8.61	329382704	3.9986807	ppm
5) H,M TPHGAK C6 to C10	8.61	273534862	4.2215931	ppm
6) h,m TPH (GC/FID) Low Fraction	8.61	292061297	4.2171657	ppm
11) T,M Methyl Tert-Butyl Ether	6.88	3942627	NoCal	ppb
12) T,M benzene	8.71	6606523	NoCal	ppb
13) T,M toluene	10.60	34373829	NoCal	ppb
14) T,M ethylbenzene	12.09	7362979	NoCal	ppb
15) T,M m&p-xylene	12.25	28574816	NoCal	ppb
16) T,M o-xylene	12.65	10565748	NoCal	ppb
17) T,M 1,3,5-Trimethylbenzene	13.68	4552197	NoCal	ppb
18) T,M 1,2,4-Trimethylbenzene	14.10	11820992	NoCal	ppb
19) T,M Naphthalene	17.36	76438	NoCal	ppb

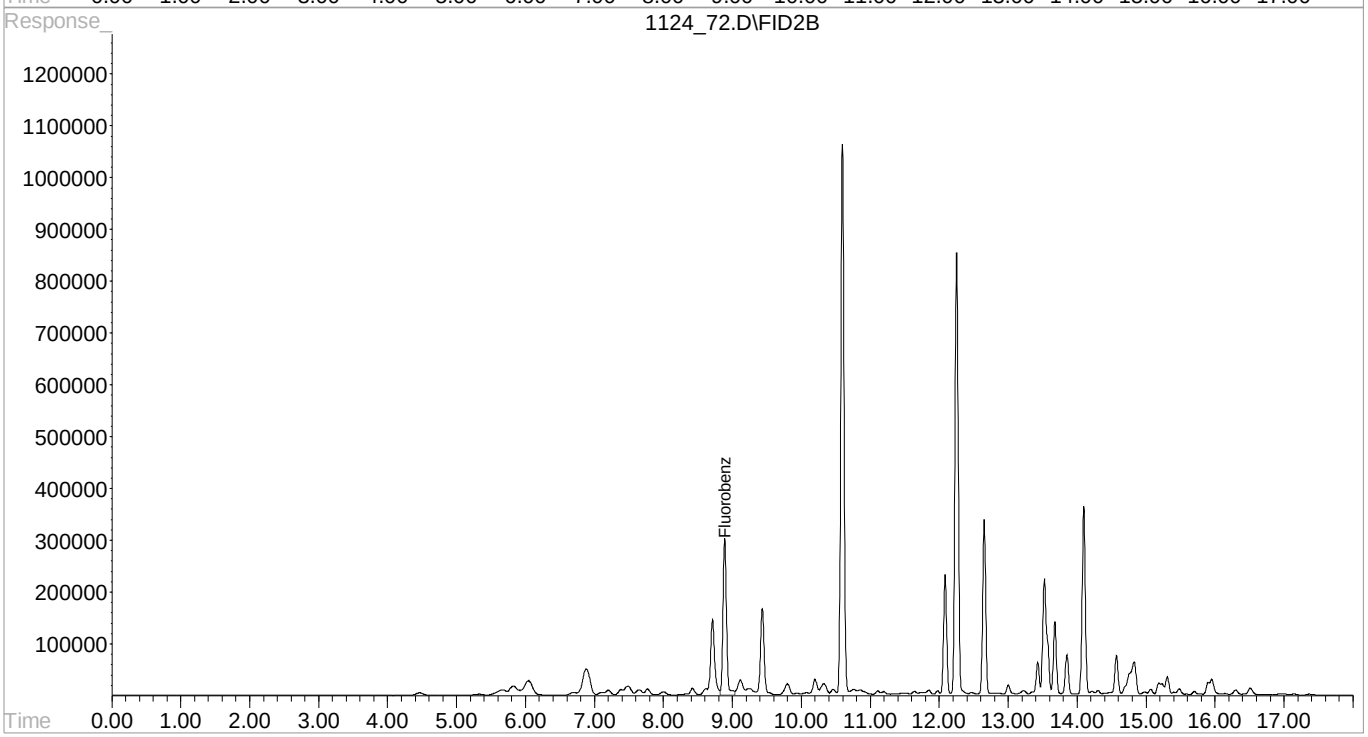
Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\112414\1124 72.D\FID1A.CH Vial: 71
Signal #2 : C:\HPCHEM\1\DATA\112414\1124 72.D\FID2B.CH
Acq On : 25 Nov 2014 10:26 pm Operator: 621
Sample : LCSDGRO 1x WG756338 Inst : VOCGC7
Misc : water ISSURR14F10114/SPK14K19015 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS3.E
Quant Time: Nov 26 12:50 2014 Quant Results File: BG07I09N.RES

Quant Method : C:\HPCHEM\1\METHODS\BG07I09N.M (Chemstation Integrator)
Title : WIS GRO VOCGC07
Last Update : Wed Sep 10 13:45:13 2014
Response via : Single Level Calibration
DataAcq Meth : VOCGC14A.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\112414\1124 73.D\FID1A.CH Vial: 72
Signal #2 : C:\HPCHEM\1\DATA\112414\1124 73.D\FID2B.CH
Acq On : 25 Nov 2014 10:51 pm Operator: 621
Sample : MSGRO 1x WG756338 L735268-01 Inst : VOCGC7
Misc : water ISSURR14F10114/SPK14K19015 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS3.E
Quant Time: Nov 26 12:50 2014 Quant Results File: BG07I09N.RES

Quant Method : C:\HPCHEM\1\METHODS\BG07I09N.M (Chemstation Integrator)
Title : WIS GRO VOCGC07
Last Update : Wed Sep 10 13:45:13 2014
Response via : Initial Calibration
DataAcq Meth : VOCGC14A.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

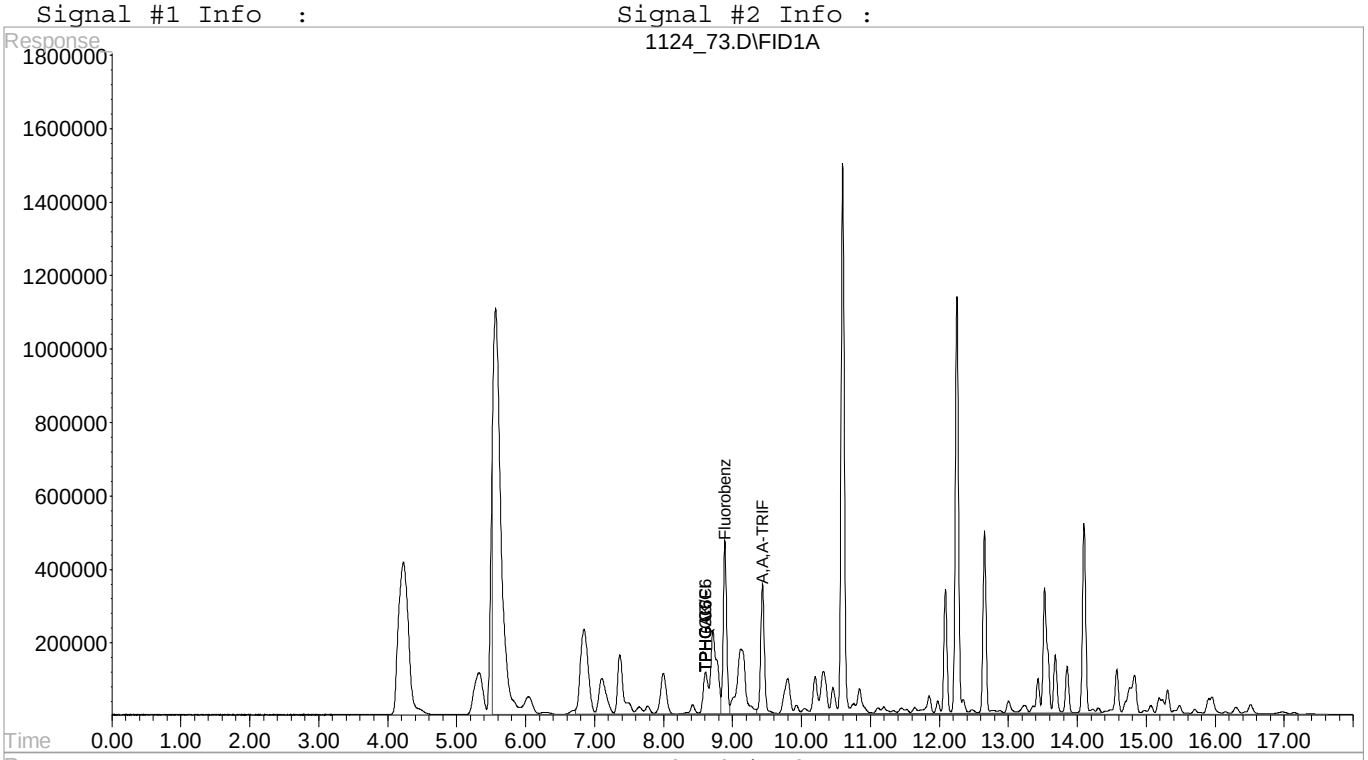
Compound	R.T.	Response	Conc	Units
Internal Standards				
1) I Fluorobenzene #1	8.89	16497823	200.0000000	ppb
9) I Fluorobenzene #2	8.89	10055865	200.0000000	ppb
System Monitoring Compounds				
7) S A,A,A-TRIFLUOROTOLUENE(FID	9.44	13646272	211.8183608	ppb
Spiked Amount 200.000 Range 62 - 128		Recovery = 105.91%		
10) S A,A,A-TRIFLUOROTOLUENE(PID	9.44	6007620	NoCal	ppb
Spiked Amount 200.000 Range 55 - 122		Recovery = 0.00%#		
Target Compounds				
2) H,M TPHG C4 - C12	0.00	11626	NoCal	ppm
3) H,M TPHG C5 - C12	8.61	405060450	5.1349964	ppm
4) H,M TPHG C6 - C12	8.61	313727583	4.0933733	ppm
5) H,M TPHGAK C6 to C10	8.61	256627759	4.2567684	ppm
6) h,m TPH (GC/FID) Low Fraction	8.61	274487942	4.2597355	ppm
11) T,M Methyl Tert-Butyl Ether	6.89	3574090	NoCal	ppb
12) T,M benzene	8.72	6004442	NoCal	ppb
13) T,M toluene	10.60	31491809	NoCal	ppb
14) T,M ethylbenzene	12.09	6782593	NoCal	ppb
15) T,M m&p-xylene	12.25	26488736	NoCal	ppb
16) T,M o-xylene	12.66	9628440	NoCal	ppb
17) T,M 1,3,5-Trimethylbenzene	13.68	4469430	NoCal	ppb
18) T,M 1,2,4-Trimethylbenzene	14.10	11356774	NoCal	ppb
19) T,M Naphthalene	17.37	93423	NoCal	ppb

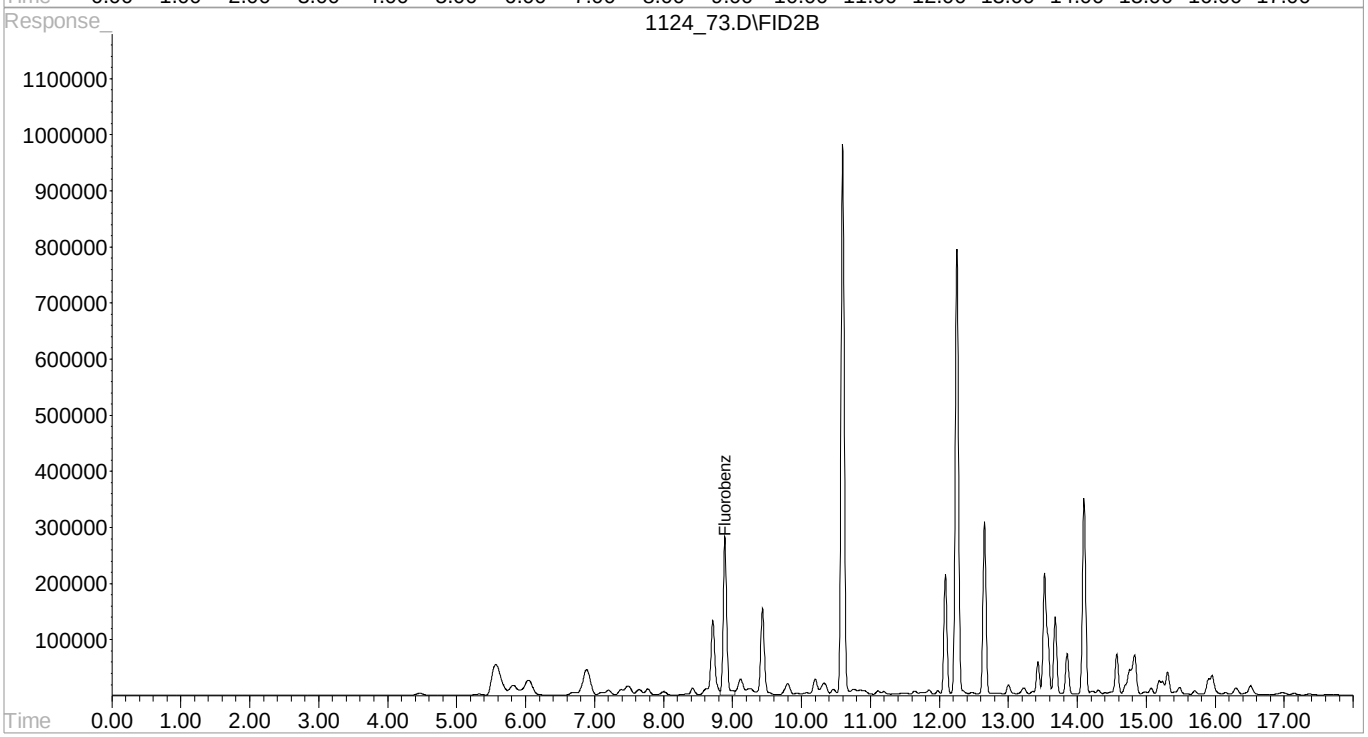
Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\112414\1124 73.D\FID1A.CH Vial: 72
Signal #2 : C:\HPCHEM\1\DATA\112414\1124 73.D\FID2B.CH
Acq On : 25 Nov 2014 10:51 pm Operator: 621
Sample : MSGRO 1x WG756338 L735268-01 Inst : VOCGC7
Misc : water ISSURR14F10114/SPK14K19015 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS3.E
Quant Time: Nov 26 12:50 2014 Quant Results File: BG07I09N.RES

Quant Method : C:\HPCHEM\1\METHODS\BG07I09N.M (Chemstation Integrator)
Title : WIS GRO VOCGC07
Last Update : Wed Sep 10 13:45:13 2014
Response via : Single Level Calibration
DataAcq Meth : VOCGC14A.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\112414\1124 74.D\FID1A.CH Vial: 73
Signal #2 : C:\HPCHEM\1\DATA\112414\1124 74.D\FID2B.CH
Acq On : 25 Nov 2014 11:16 pm Operator: 621
Sample : MSDGRO 1x WG756338 L735268-01 Inst : VOCGC7
Misc : water ISSURR14F10114/SPK14K19015 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS3.E
Quant Time: Nov 26 12:50 2014 Quant Results File: BG07I09N.RES

Quant Method : C:\HPCHEM\1\METHODS\BG07I09N.M (Chemstation Integrator)
Title : WIS GRO VOCGC07
Last Update : Wed Sep 10 13:45:13 2014
Response via : Initial Calibration
DataAcq Meth : VOCGC14A.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

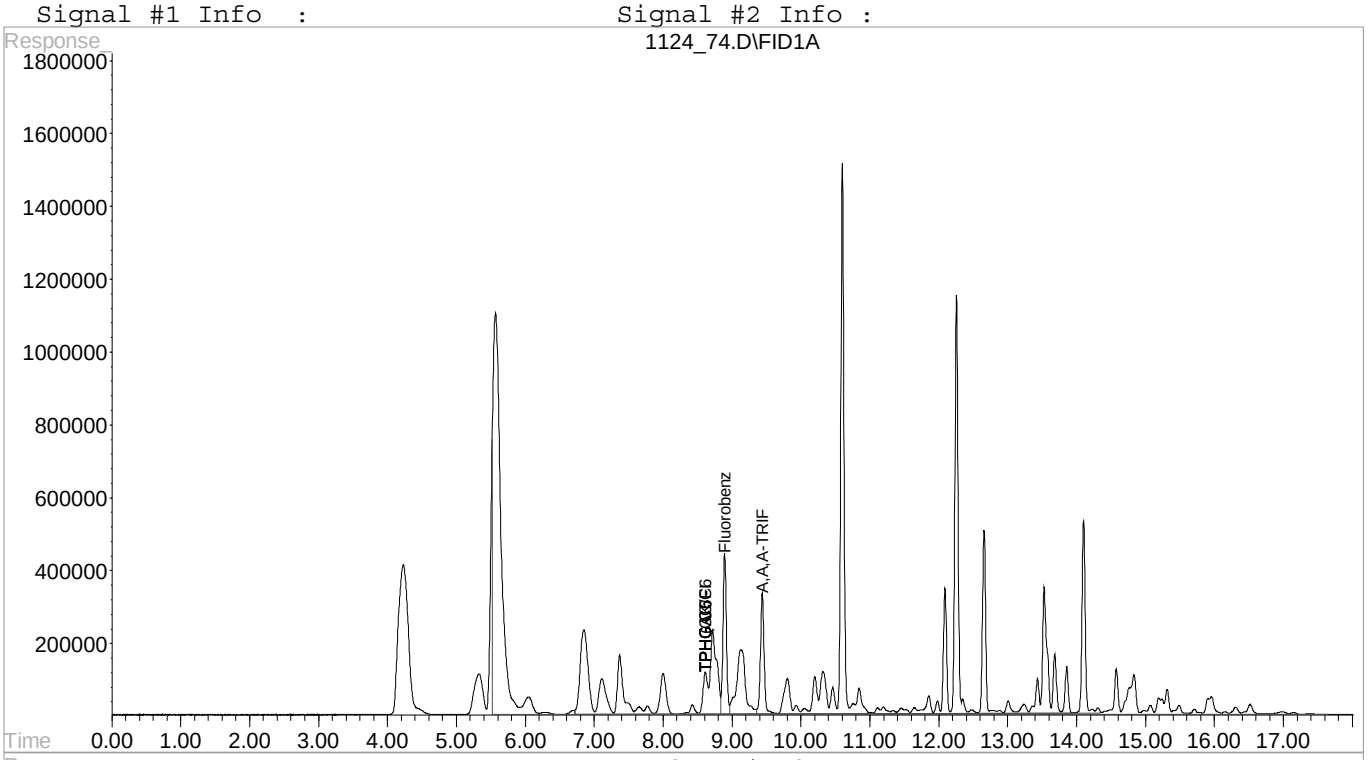
Compound	R.T.	Response	Conc Units
Internal Standards			
1) I Fluorobenzene #1	8.89	15556583	200.0000000 ppb
9) I Fluorobenzene #2	8.89	9423782	200.0000000 ppb
System Monitoring Compounds			
7) S A,A,A-TRIFLUOROTOLUENE(FID	9.44	12861900	211.7225576 ppb
Spiked Amount 200.000 Range 62 - 128		Recovery = 105.86%	
10) S A,A,A-TRIFLUOROTOLUENE(PID	9.44	5638760	NoCal ppb
Spiked Amount 200.000 Range 55 - 122		Recovery = 0.00%#	
Target Compounds			
2) H,M TPHG C4 - C12	0.00	15222	NoCal ppm
3) H,M TPHG C5 - C12	8.61	410902015	5.5242203 ppm
4) H,M TPHG C6 - C12	8.61	317968583	4.3997224 ppm
5) H,M TPHGAK C6 to C10	8.61	259697547	4.5683214 ppm
6) h,m TPH (GC/FID) Low Fraction	8.61	277875405	4.5732179 ppm
11) T,M Methyl Tert-Butyl Ether	6.89	3551518	NoCal ppb
12) T,M benzene	8.72	6052388	NoCal ppb
13) T,M toluene	10.60	31758218	NoCal ppb
14) T,M ethylbenzene	12.09	6858628	NoCal ppb
15) T,M m&p-xylene	12.26	26793926	NoCal ppb
16) T,M o-xylene	12.66	9710793	NoCal ppb
17) T,M 1,3,5-Trimethylbenzene	13.68	4526826	NoCal ppb
18) T,M 1,2,4-Trimethylbenzene	14.10	11519208	NoCal ppb
19) T,M Naphthalene	17.37	100635	NoCal ppb

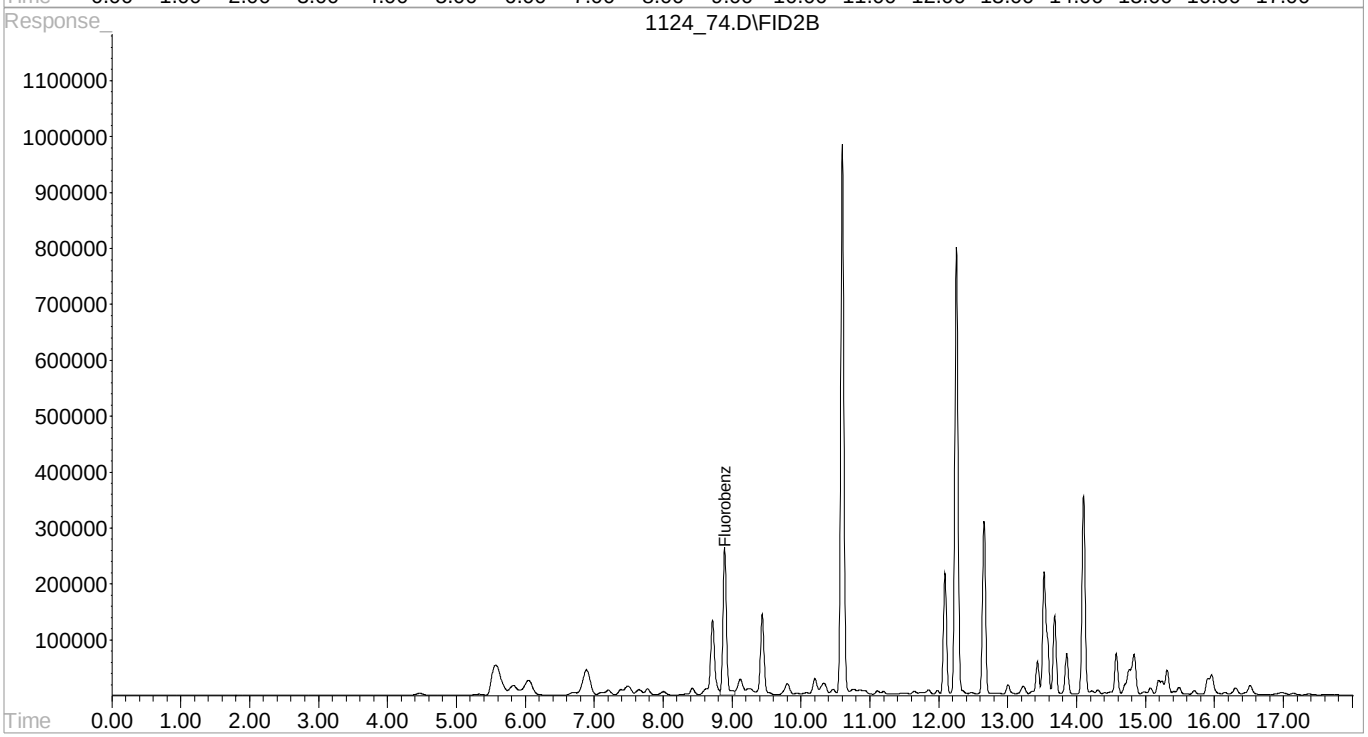
Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\112414\1124 74.D\FID1A.CH Vial: 73
Signal #2 : C:\HPCHEM\1\DATA\112414\1124 74.D\FID2B.CH
Acq On : 25 Nov 2014 11:16 pm Operator: 621
Sample : MSDGRO 1x WG756338 L735268-01 Inst : VOCGC7
Misc : water ISSURR14F10114/SPK14K19015 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS3.E
Quant Time: Nov 26 12:50 2014 Quant Results File: BG07I09N.RES

Quant Method : C:\HPCHEM\1\METHODS\BG07I09N.M (Chemstation Integrator)
Title : WIS GRO VOCGC07
Last Update : Wed Sep 10 13:45:13 2014
Response via : Single Level Calibration
DataAcq Meth : VOCGC14A.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\112414\1124 76.D\FID1A.CH Vial: 75
Signal #2 : C:\HPCHEM\1\DATA\112414\1124 76.D\FID2B.CH
Acq On : 26 Nov 2014 12:07 am Operator: 621
Sample : BLANK 1x WG756338 Inst : VOCGC7
Misc : water ISSURR14F10114 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS3.E
Quant Time: Nov 26 12:50 2014 Quant Results File: BG07I09N.RES

Quant Method : C:\HPCHEM\1\METHODS\BG07I09N.M (Chemstation Integrator)
Title : WIS GRO VOCGC07
Last Update : Wed Sep 10 13:45:13 2014
Response via : Initial Calibration
DataAcq Meth : VOCGC14A.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

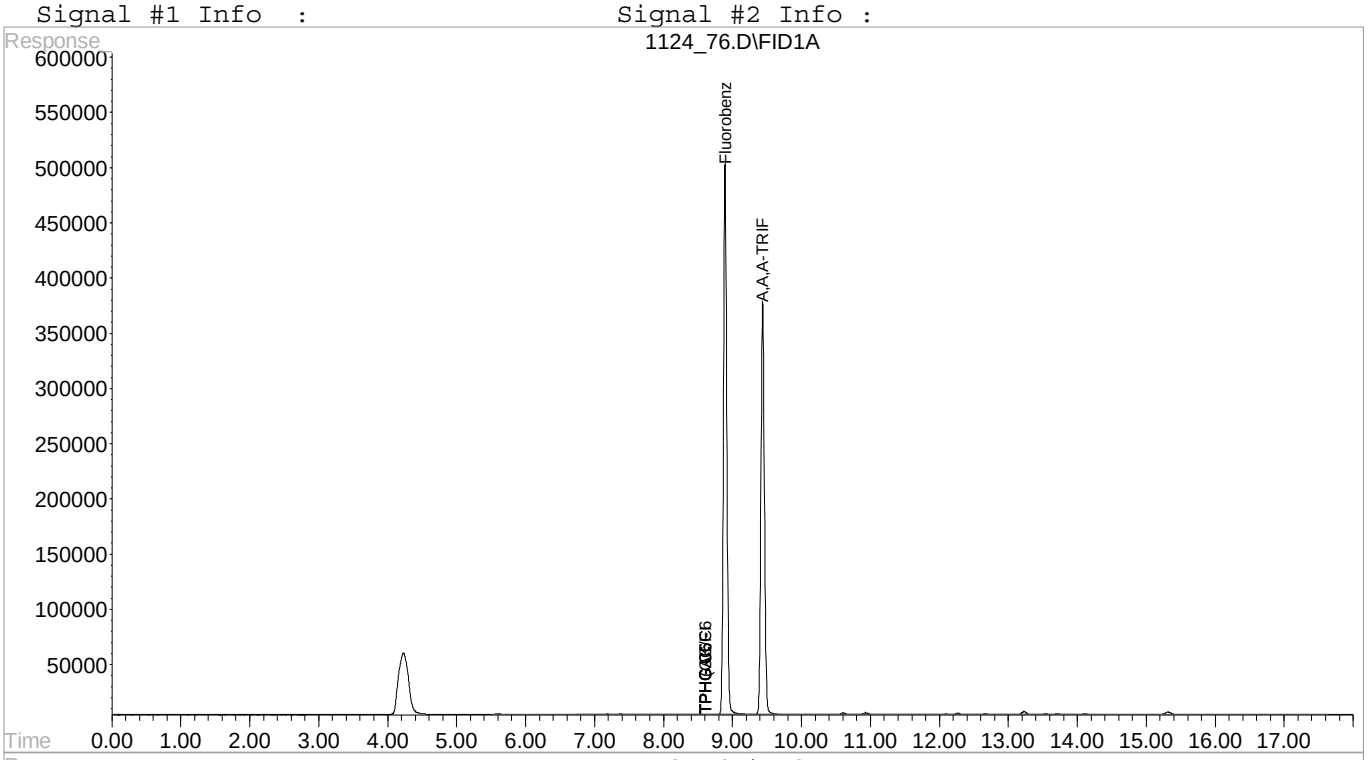
Compound	R.T.	Response	Conc	Units
Internal Standards				
1) I Fluorobenzene #1	8.89	16838051	200.0000000	ppb
9) I Fluorobenzene #2	8.89	9875653	200.0000000	ppb
System Monitoring Compounds				
7) S A,A,A-TRIFLUOROTOLUENE(FID	9.44	13094564	199.1477745	ppb
Spiked Amount 200.000 Range 62 - 128		Recovery = 99.57%		
10) S A,A,A-TRIFLUOROTOLUENE(PID	9.44	5645336	NoCal	ppb
Spiked Amount 200.000 Range 55 - 122		Recovery = 0.00%#		
Target Compounds				
2) H,M TPHG C4 - C12	0.00	15783	NoCal	ppm
3) H,M TPHG C5 - C12	8.61	1636944	0.0203324	ppm
4) H,M TPHG C6 - C12	8.61	1405139	0.0179632	ppm
5) H,M TPHGAK C6 to C10	8.61	849415	0.0138048	ppm
6) h,m TPH (GC/FID) Low Fraction	8.61	904726	0.0137566	ppm
11) T,M Methyl Tert-Butyl Ether	0.00	0	N.D.	ppb
12) T,M benzene	0.00	0	N.D.	ppb
13) T,M toluene	10.61	33542	NoCal	ppb
14) T,M ethylbenzene	0.00	0	N.D.	ppb
15) T,M m&p-xylene	12.27	28510	NoCal	ppb
16) T,M o-xylene	0.00	0	N.D.	ppb
17) T,M 1,3,5-Trimethylbenzene	0.00	0	N.D.	ppb
18) T,M 1,2,4-Trimethylbenzene	0.00	0	N.D.	ppb
19) T,M Naphthalene	0.00	0	N.D.	ppb

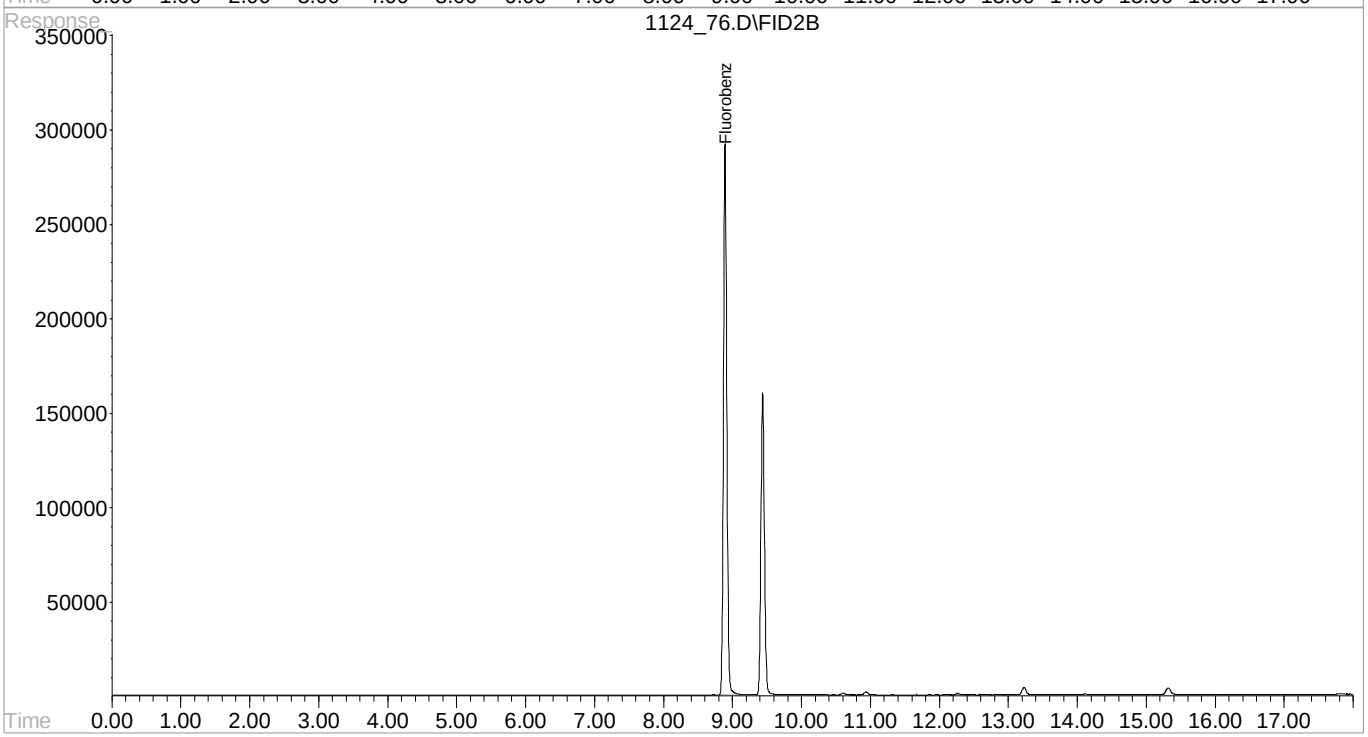
Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\112414\1124 76.D\FID1A.CH Vial: 75
Signal #2 : C:\HPCHEM\1\DATA\112414\1124 76.D\FID2B.CH
Acq On : 26 Nov 2014 12:07 am Operator: 621
Sample : BLANK 1x WG756338 Inst : VOCGC7
Misc : water ISSURR14F10114 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS3.E
Quant Time: Nov 26 12:50 2014 Quant Results File: BG07I09N.RES

Quant Method : C:\HPCHEM\1\METHODS\BG07I09N.M (Chemstation Integrator)
Title : WIS GRO VOCGC07
Last Update : Wed Sep 10 13:45:13 2014
Response via : Single Level Calibration
DataAcq Meth : VOCGC14A.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\112414\1124 77.D\FID1A.CH Vial: 76
Signal #2 : C:\HPCHEM\1\DATA\112414\1124 77.D\FID2B.CH
Acq On : 26 Nov 2014 1:38 am Operator: 621
Sample : L735181-01 1x WG756338 GRO tb Inst : VOCGC7
Misc : water ISSURR14F10114 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS3.E
Quant Time: Nov 26 12:50 2014 Quant Results File: BG07I09N.RES

Quant Method : C:\HPCHEM\1\METHODS\BG07I09N.M (Chemstation Integrator)
Title : WIS GRO VOCGC07
Last Update : Wed Sep 10 13:45:13 2014
Response via : Initial Calibration
DataAcq Meth : VOCGC14A.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

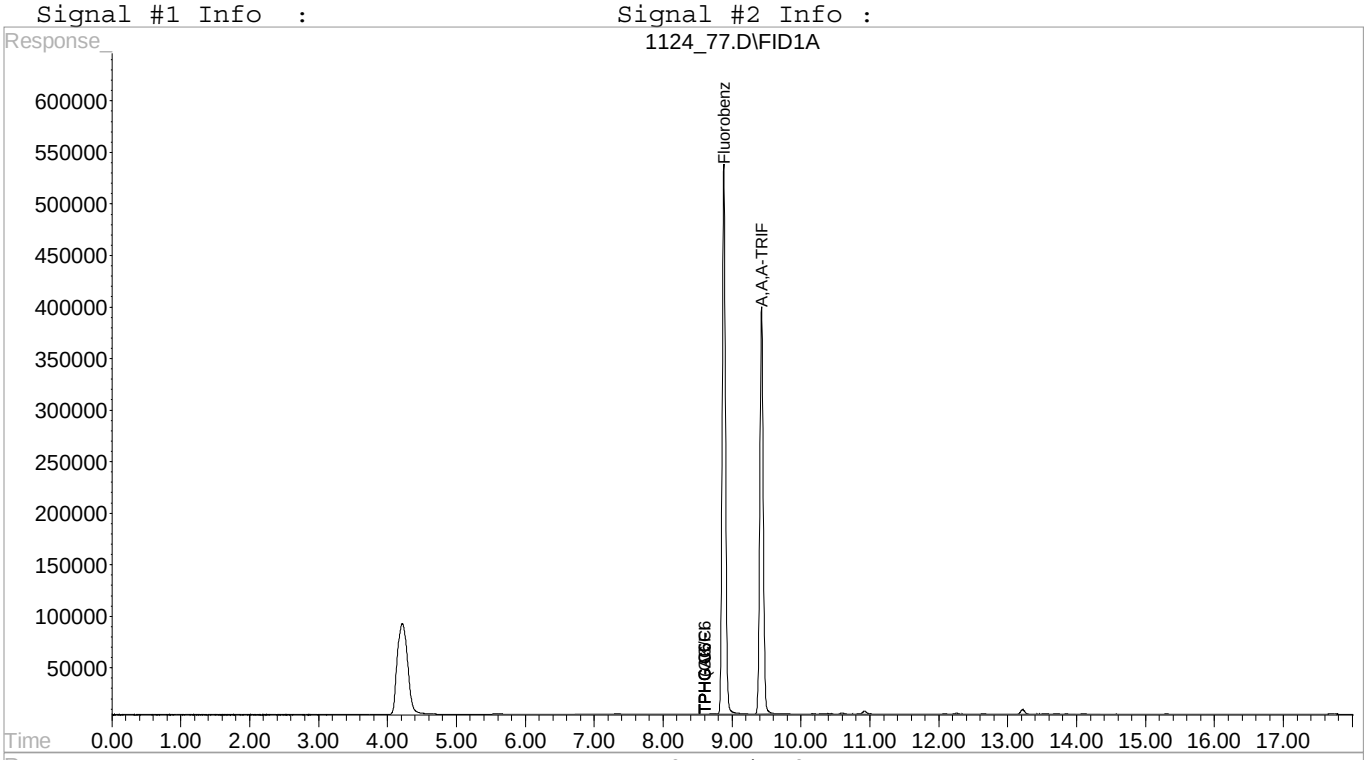
Compound	R.T.	Response	Conc	Units
Internal Standards				
1) I Fluorobenzene #1	8.88	17842244	200.0000000	ppb
9) I Fluorobenzene #2	8.88	10666042	200.0000000	ppb
System Monitoring Compounds				
7) S A,A,A-TRIFLUOROTOLUENE(FID	9.43	13855249	198.8570845	ppb
Spiked Amount 200.000 Range 62 - 128		Recovery =	99.43%	
10) S A,A,A-TRIFLUOROTOLUENE(PID	9.43	6103873	NoCal	ppb
Spiked Amount 200.000 Range 55 - 122		Recovery =	0.00%#	
Target Compounds				
2) H,M TPHG C4 - C12	0.00	10762	NoCal	ppm
3) H,M TPHG C5 - C12	8.61	1781382	0.0208812	ppm
4) H,M TPHG C6 - C12	8.61	1570238	0.0189440	ppm
5) H,M TPHGAK C6 to C10	8.61	1184631	0.0181692	ppm
6) h,m TPH (GC/FID) Low Fraction	8.61	1232772	0.0176896	ppm
11) T,M Methyl Tert-Butyl Ether	0.00	0	N.D.	ppb
12) T,M benzene	0.00	0	N.D.	ppb
13) T,M toluene	10.60	28878	NoCal	ppb
14) T,M ethylbenzene	0.00	0	N.D.	ppb
15) T,M m&p-xylene	12.26	28628	NoCal	ppb
16) T,M o-xylene	0.00	0	N.D.	ppb
17) T,M 1,3,5-Trimethylbenzene	0.00	0	N.D.	ppb
18) T,M 1,2,4-Trimethylbenzene	0.00	0	N.D.	ppb
19) T,M Naphthalene	0.00	0	N.D.	ppb

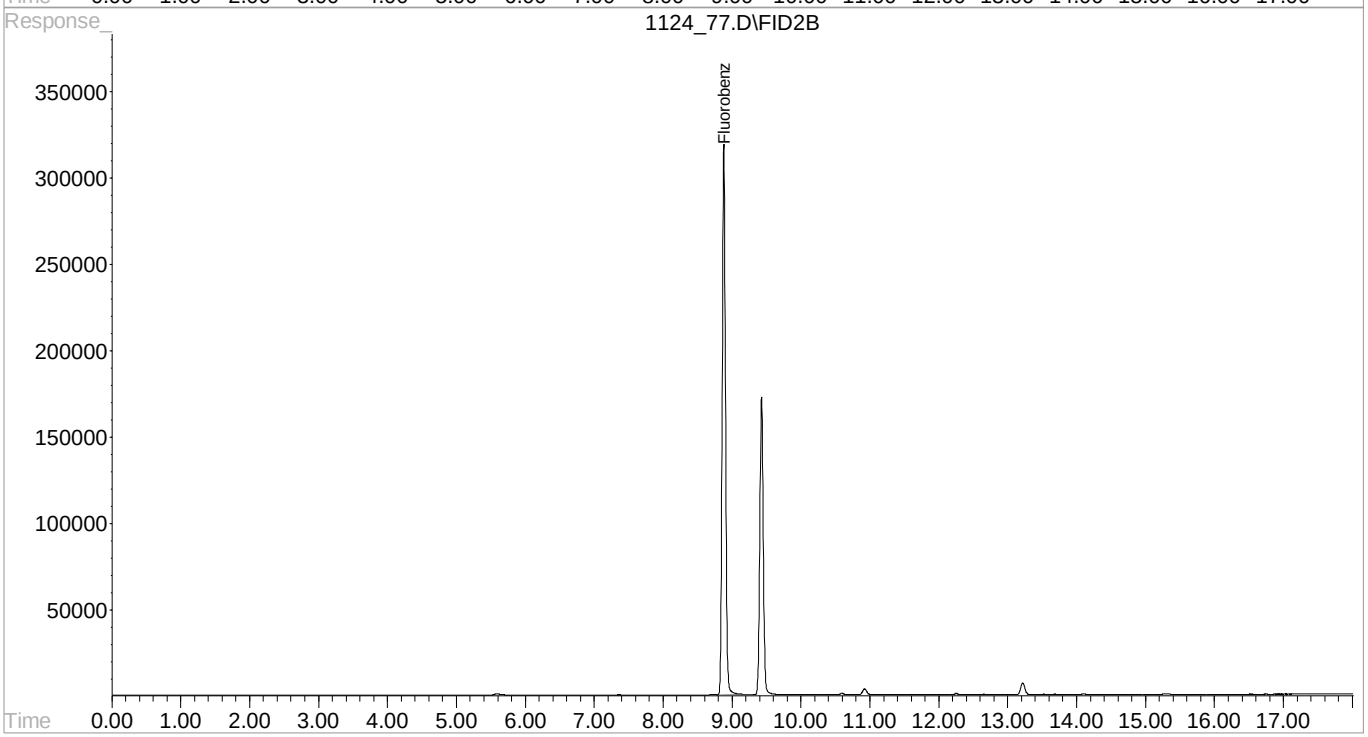
Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\112414\1124 77.D\FID1A.CH Vial: 76
Signal #2 : C:\HPCHEM\1\DATA\112414\1124 77.D\FID2B.CH
Acq On : 26 Nov 2014 1:38 am Operator: 621
Sample : L735181-01 1x WG756338 GRO tb Inst : VOCGC7
Misc : water ISSURR14F10114 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS3.E
Quant Time: Nov 26 12:50 2014 Quant Results File: BG07I09N.RES

Quant Method : C:\HPCHEM\1\METHODS\BG07I09N.M (Chemstation Integrator)
Title : WIS GRO VOCGC07
Last Update : Wed Sep 10 13:45:13 2014
Response via : Single Level Calibration
DataAcq Meth : VOCGC14A.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\112414\1124 81.D\FID1A.CH Vial: 80
Signal #2 : C:\HPCHEM\1\DATA\112414\1124 81.D\FID2B.CH
Acq On : 26 Nov 2014 3:19 am Operator: 621
Sample : L735181-02 1x WG756338 GRO Inst : VOCGC7
Misc : water ISSURR14F10114 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS3.E
Quant Time: Nov 26 12:50 2014 Quant Results File: BG07I09N.RES

Quant Method : C:\HPCHEM\1\METHODS\BG07I09N.M (Chemstation Integrator)
Title : WIS GRO VOCGC07
Last Update : Wed Sep 10 13:45:13 2014
Response via : Initial Calibration
DataAcq Meth : VOCGC14A.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

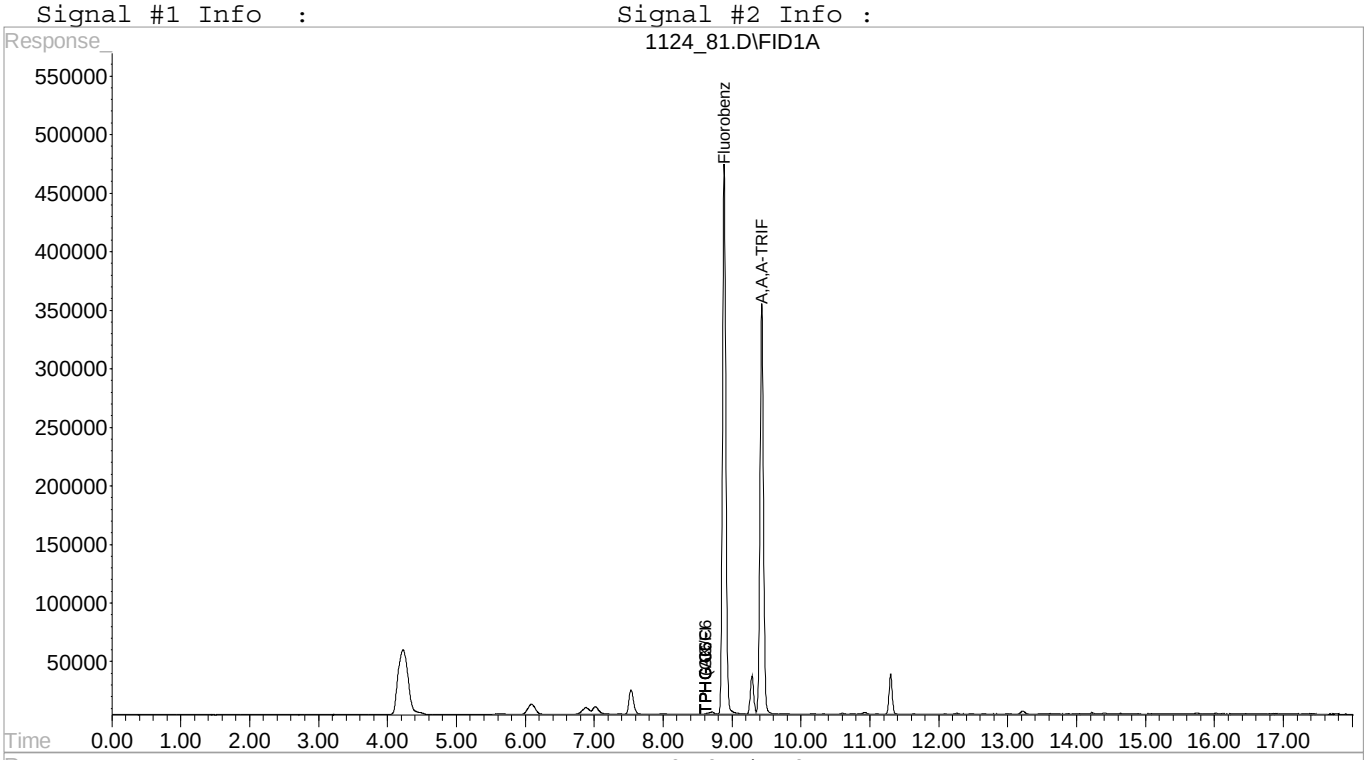
Compound	R.T.	Response	Conc	Units
Internal Standards				
1) I Fluorobenzene #1	8.89	15919289	200.0000000	ppb
9) I Fluorobenzene #2	8.89	9512589	200.0000000	ppb
System Monitoring Compounds				
7) S A,A,A-TRIFLUOROTOLUENE(FID	9.43	12339259	198.4913701	ppb
Spiked Amount 200.000 Range 62 - 128		Recovery = 99.25%		
10) S A,A,A-TRIFLUOROTOLUENE(PID	9.43	5406230	NoCal	ppb
Spiked Amount 200.000 Range 55 - 122		Recovery = 0.00%#		
Target Compounds				
2) H,M TPHG C4 - C12	0.00	20345	NoCal	ppm
3) H,M TPHG C5 - C12	8.61	6991696	0.0918556	ppm
4) H,M TPHG C6 - C12	8.61	5989268	0.0809851	ppm
5) H,M TPHGAK C6 to C10	8.61	5114756	0.0879234	ppm
6) h,m TPH (GC/FID) Low Fraction	8.61	5235314	0.0841986	ppm
11) T,M Methyl Tert-Butyl Ether	6.88	335821	NoCal	ppb
12) T,M benzene	8.71	43182	NoCal	ppb
13) T,M toluene	10.60	23846	NoCal	ppb
14) T,M ethylbenzene	0.00	0	N.D.	ppb
15) T,M m&p-xylene	12.26	17230	NoCal	ppb
16) T,M o-xylene	0.00	0	N.D.	ppb
17) T,M 1,3,5-Trimethylbenzene	0.00	0	N.D.	ppb
18) T,M 1,2,4-Trimethylbenzene	0.00	0	N.D.	ppb
19) T,M Naphthalene	0.00	0	N.D.	ppb

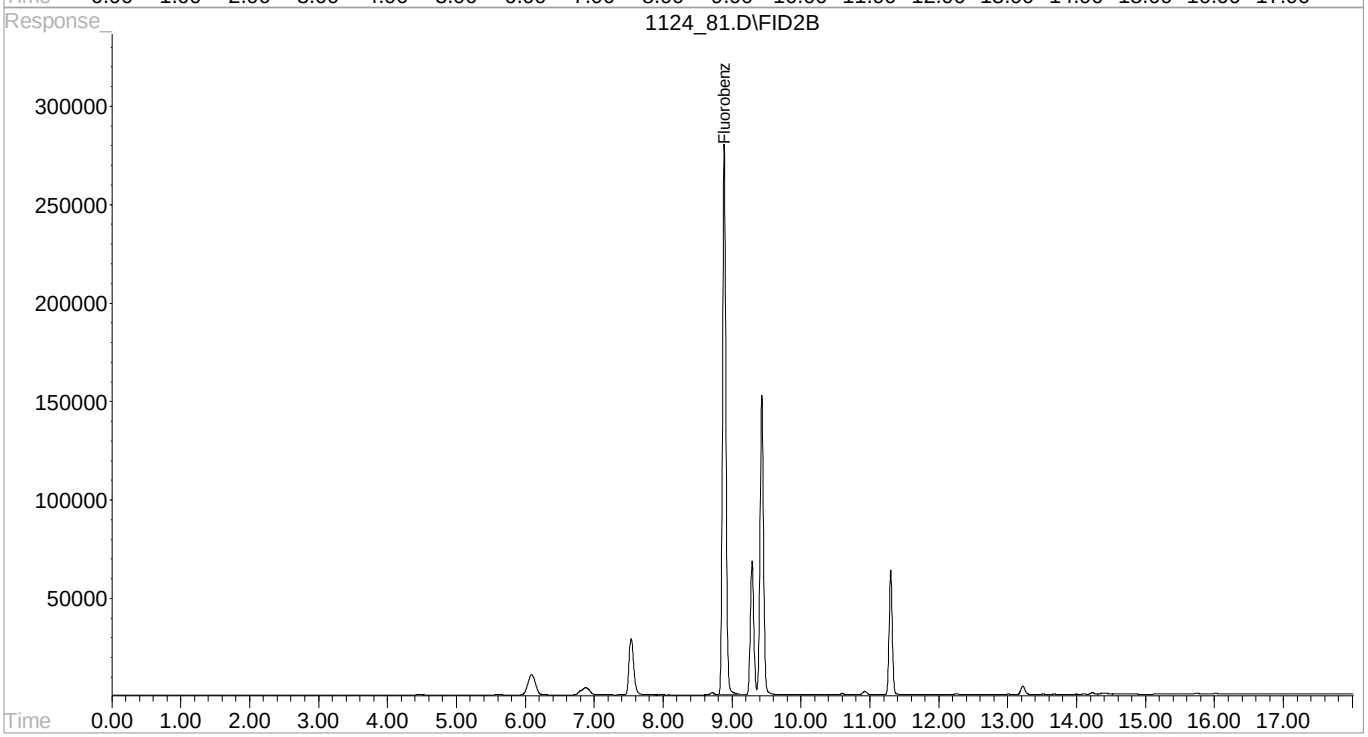
Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\112414\1124 81.D\FID1A.CH Vial: 80
Signal #2 : C:\HPCHEM\1\DATA\112414\1124 81.D\FID2B.CH
Acq On : 26 Nov 2014 3:19 am Operator: 621
Sample : L735181-02 1x WG756338 GRO Inst : VOCGC7
Misc : water ISSURR14F10114 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS3.E
Quant Time: Nov 26 12:50 2014 Quant Results File: BG07I09N.RES

Quant Method : C:\HPCHEM\1\METHODS\BG07I09N.M (Chemstation Integrator)
Title : WIS GRO VOCGC07
Last Update : Wed Sep 10 13:45:13 2014
Response via : Single Level Calibration
DataAcq Meth : VOCGC14A.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\112414\1124 82.D\FID1A.CH Vial: 81
Signal #2 : C:\HPCHEM\1\DATA\112414\1124 82.D\FID2B.CH
Acq On : 26 Nov 2014 3:44 am Operator: 621
Sample : L735181-05 1x WG756338 GRO Inst : VOCGC7
Misc : water ISSURR14F10114 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS3.E
Quant Time: Nov 26 12:50 2014 Quant Results File: BG07I09N.RES

Quant Method : C:\HPCHEM\1\METHODS\BG07I09N.M (Chemstation Integrator)
Title : WIS GRO VOCGC07
Last Update : Wed Sep 10 13:45:13 2014
Response via : Initial Calibration
DataAcq Meth : VOCGC14A.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

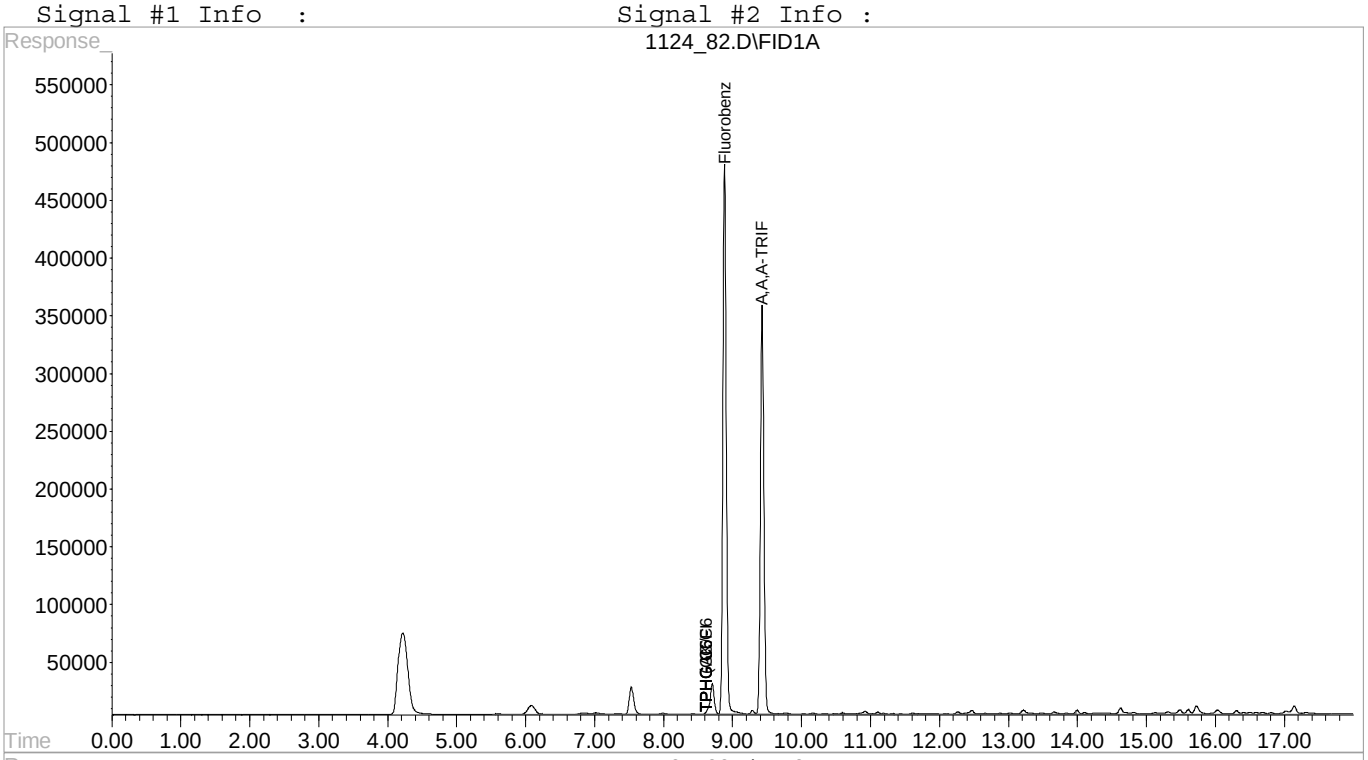
Compound	R.T.	Response	Conc	Units
Internal Standards				
1) I Fluorobenzene #1	8.88	16214370	200.0000000	ppb
9) I Fluorobenzene #2	8.88	9644477	200.0000000	ppb
System Monitoring Compounds				
7) S A,A,A-TRIFLUOROTOLUENE(FID	9.43	12475419	197.0295199	ppb
Spiked Amount 200.000 Range 62 - 128		Recovery =	98.51%	
10) S A,A,A-TRIFLUOROTOLUENE(PID	9.43	5426939	NoCal	ppb
Spiked Amount 200.000 Range 55 - 122		Recovery =	0.00%#	
Target Compounds				
2) H,M TPHG C4 - C12	0.00	20500	NoCal	ppm
3) H,M TPHG C5 - C12	8.61	8729195	0.1125955	ppm
4) H,M TPHG C6 - C12	8.61	7818102	0.1037902	ppm
5) H,M TPHGAK C6 to C10	8.61	4538565	0.0765987	ppm
6) h,m TPH (GC/FID) Low Fraction	8.61	4806703	0.0758985	ppm
11) T,M Methyl Tert-Butyl Ether	0.00	0	N.D.	ppb
12) T,M benzene	8.71	680533	NoCal	ppb
13) T,M toluene	10.60	33147	NoCal	ppb
14) T,M ethylbenzene	0.00	0	N.D.	ppb
15) T,M m&p-xylene	12.26	26969	NoCal	ppb
16) T,M o-xylene	0.00	0	N.D.	ppb
17) T,M 1,3,5-Trimethylbenzene	13.66	68318	NoCal	ppb
18) T,M 1,2,4-Trimethylbenzene	14.11	29801	NoCal	ppb
19) T,M Naphthalene	17.32	17303	NoCal	ppb

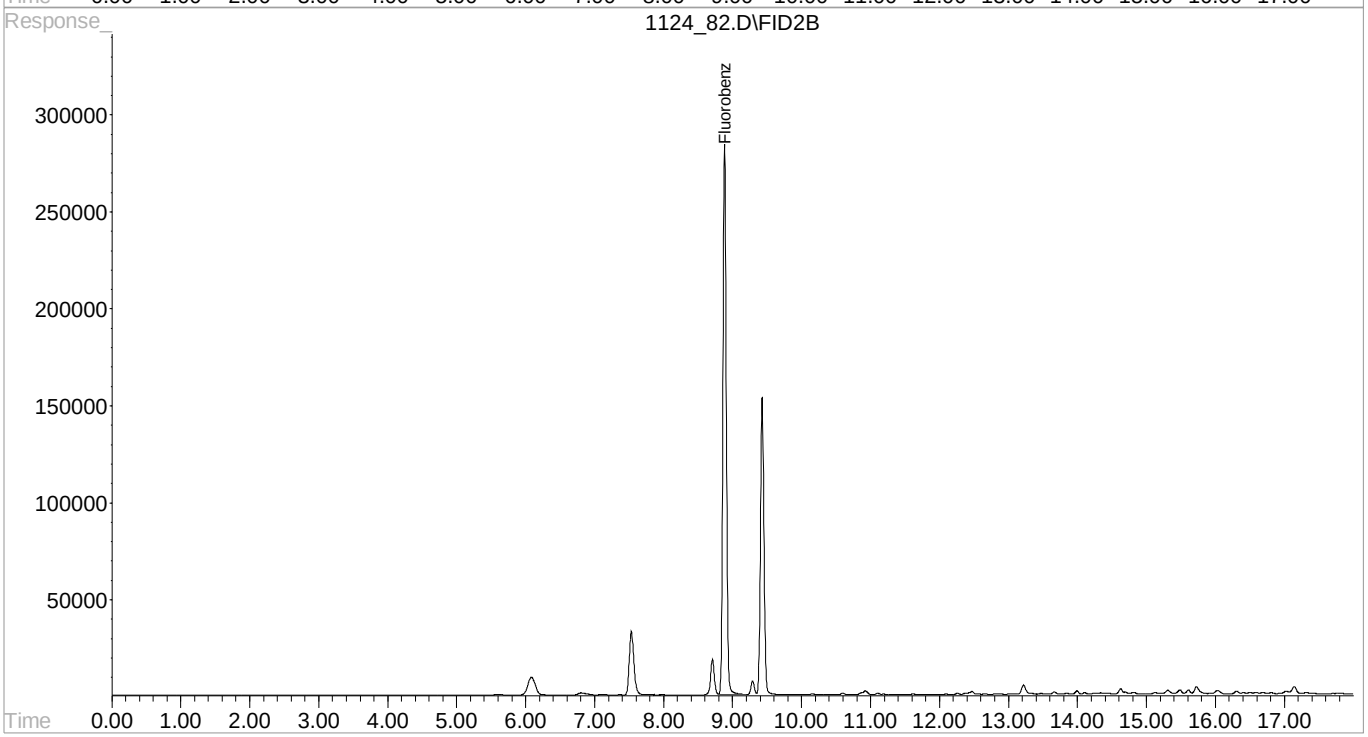
Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\112414\1124 82.D\FID1A.CH Vial: 81
Signal #2 : C:\HPCHEM\1\DATA\112414\1124 82.D\FID2B.CH
Acq On : 26 Nov 2014 3:44 am Operator: 621
Sample : L735181-05 1x WG756338 GRO Inst : VOCGC7
Misc : water ISSURR14F10114 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS3.E
Quant Time: Nov 26 12:50 2014 Quant Results File: BG07I09N.RES

Quant Method : C:\HPCHEM\1\METHODS\BG07I09N.M (Chemstation Integrator)
Title : WIS GRO VOCGC07
Last Update : Wed Sep 10 13:45:13 2014
Response via : Single Level Calibration
DataAcq Meth : VOCGC14A.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\112414\1124 83.D\FID1A.CH Vial: 82
Signal #2 : C:\HPCHEM\1\DATA\112414\1124 83.D\FID2B.CH
Acq On : 26 Nov 2014 4:09 am Operator: 621
Sample : L735181-07 1x WG756338 GRO Inst : VOCGC7
Misc : water ISSURR14F10114 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS3.E
Quant Time: Nov 26 12:50 2014 Quant Results File: BG07I09N.RES

Quant Method : C:\HPCHEM\1\METHODS\BG07I09N.M (Chemstation Integrator)
Title : WIS GRO VOCGC07
Last Update : Wed Sep 10 13:45:13 2014
Response via : Initial Calibration
DataAcq Meth : VOCGC14A.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

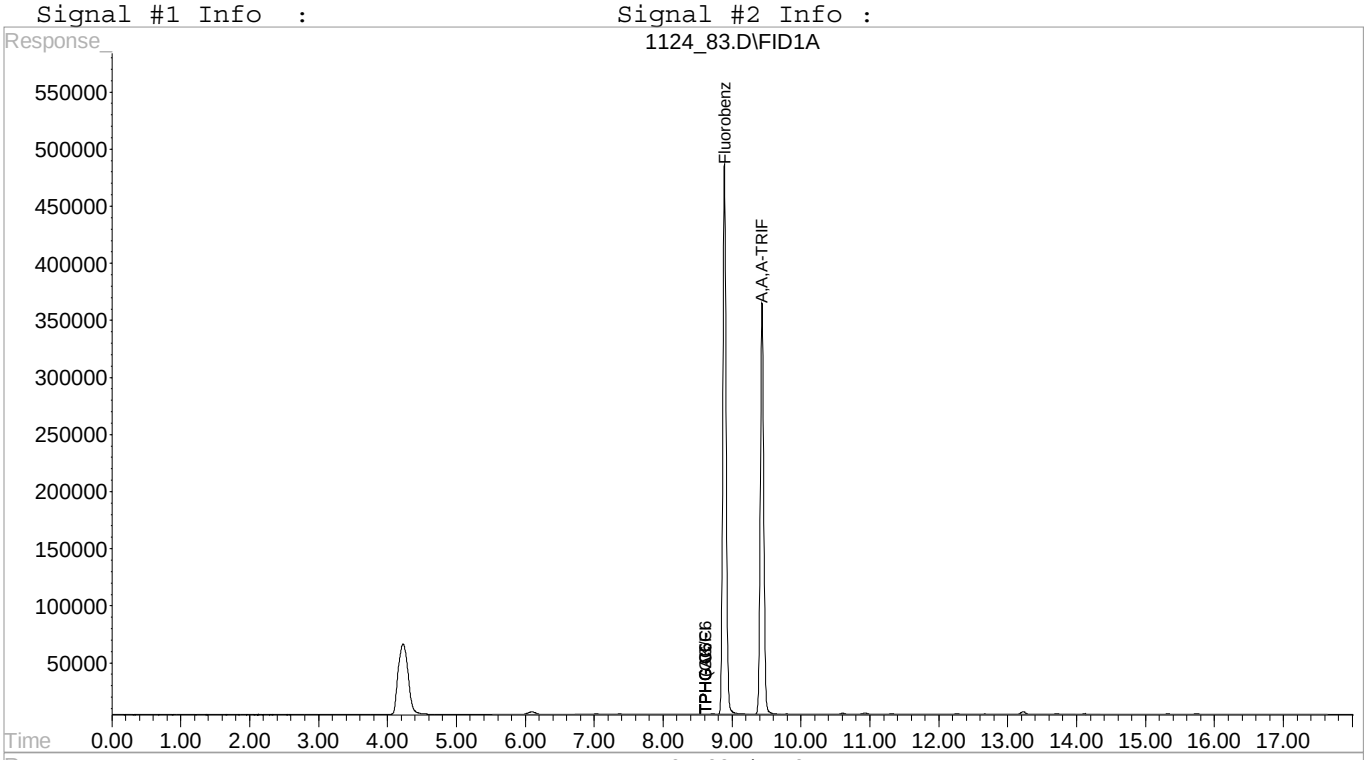
Compound	R.T.	Response	Conc	Units
Internal Standards				
1) I Fluorobenzene #1	8.89	16247721	200.0000000	ppb
9) I Fluorobenzene #2	8.89	9776214	200.0000000	ppb
System Monitoring Compounds				
7) S A,A,A-TRIFLUOROTOLUENE(FID	9.44	12643832	199.2794350	ppb
Spiked Amount 200.000 Range 62 - 128		Recovery = 99.64%		
10) S A,A,A-TRIFLUOROTOLUENE(PID	9.44	5547507	NoCal	ppb
Spiked Amount 200.000 Range 55 - 122		Recovery = 0.00%#		
Target Compounds				
2) H,M TPHG C4 - C12	0.00	15799	NoCal	ppm
3) H,M TPHG C5 - C12	8.61	1912664	0.0246203	ppm
4) H,M TPHG C6 - C12	8.61	1393388	0.0184601	ppm
5) H,M TPHGAK C6 to C10	8.61	901936	0.0151910	ppm
6) h,m TPH (GC/FID) Low Fraction	8.61	949937	0.0149688	ppm
11) T,M Methyl Tert-Butyl Ether	0.00	0	N.D.	ppb
12) T,M benzene	0.00	0	N.D.	ppb
13) T,M toluene	10.60	23634	NoCal	ppb
14) T,M ethylbenzene	0.00	0	N.D.	ppb
15) T,M m&p-xylene	12.27	19286	NoCal	ppb
16) T,M o-xylene	0.00	0	N.D.	ppb
17) T,M 1,3,5-Trimethylbenzene	0.00	0	N.D.	ppb
18) T,M 1,2,4-Trimethylbenzene	0.00	0	N.D.	ppb
19) T,M Naphthalene	0.00	0	N.D.	ppb

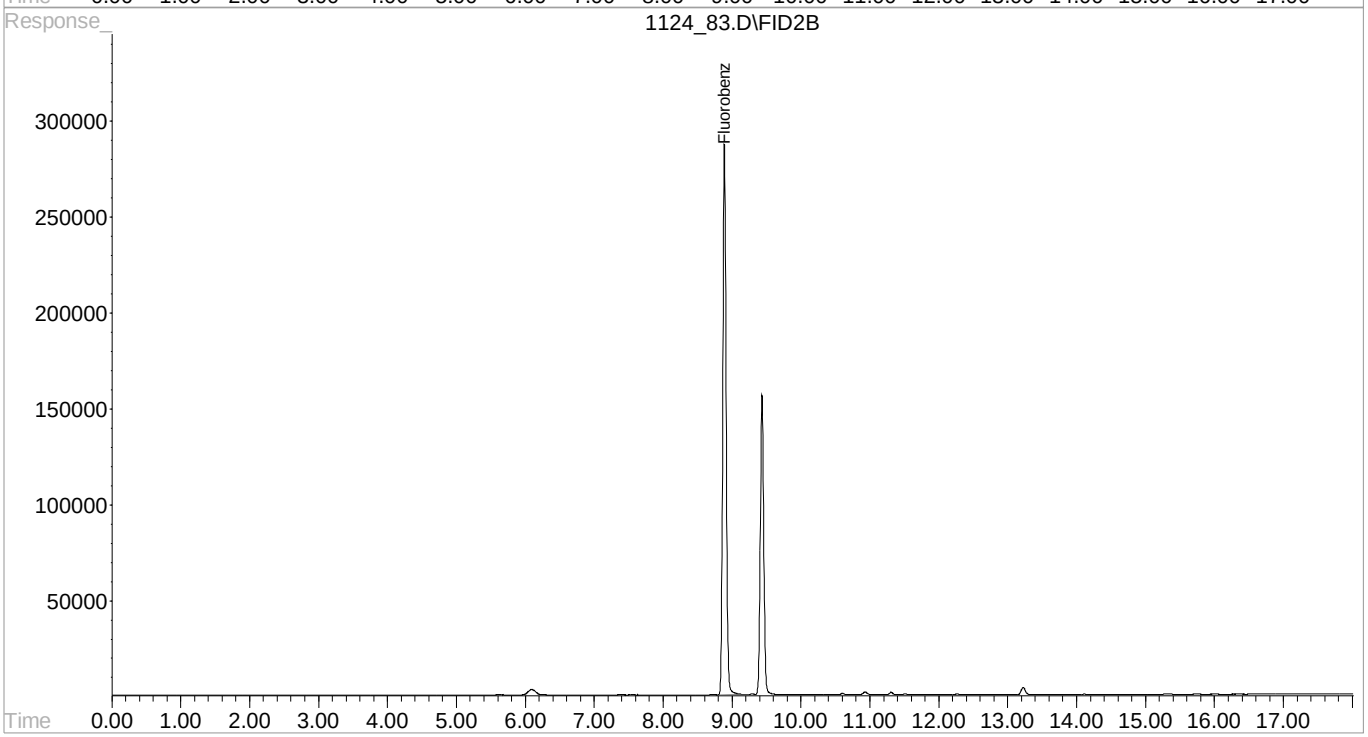
Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\112414\1124 83.D\FID1A.CH Vial: 82
Signal #2 : C:\HPCHEM\1\DATA\112414\1124 83.D\FID2B.CH
Acq On : 26 Nov 2014 4:09 am Operator: 621
Sample : L735181-07 1x WG756338 GRO Inst : VOCGC7
Misc : water ISSURR14F10114 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS3.E
Quant Time: Nov 26 12:50 2014 Quant Results File: BG07I09N.RES

Quant Method : C:\HPCHEM\1\METHODS\BG07I09N.M (Chemstation Integrator)
Title : WIS GRO VOCGC07
Last Update : Wed Sep 10 13:45:13 2014
Response via : Single Level Calibration
DataAcq Meth : VOCGC14A.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\112414\1124 84.D\FID1A.CH Vial: 83
Signal #2 : C:\HPCHEM\1\DATA\112414\1124 84.D\FID2B.CH
Acq On : 26 Nov 2014 4:34 am Operator: 621
Sample : L735181-10 1x WG756338 GRO Inst : VOCGC7
Misc : water ISSURR14F10114 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS3.E
Quant Time: Nov 26 12:50 2014 Quant Results File: BG07I09N.RES

Quant Method : C:\HPCHEM\1\METHODS\BG07I09N.M (Chemstation Integrator)
Title : WIS GRO VOCGC07
Last Update : Wed Sep 10 13:45:13 2014
Response via : Initial Calibration
DataAcq Meth : VOCGC14A.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

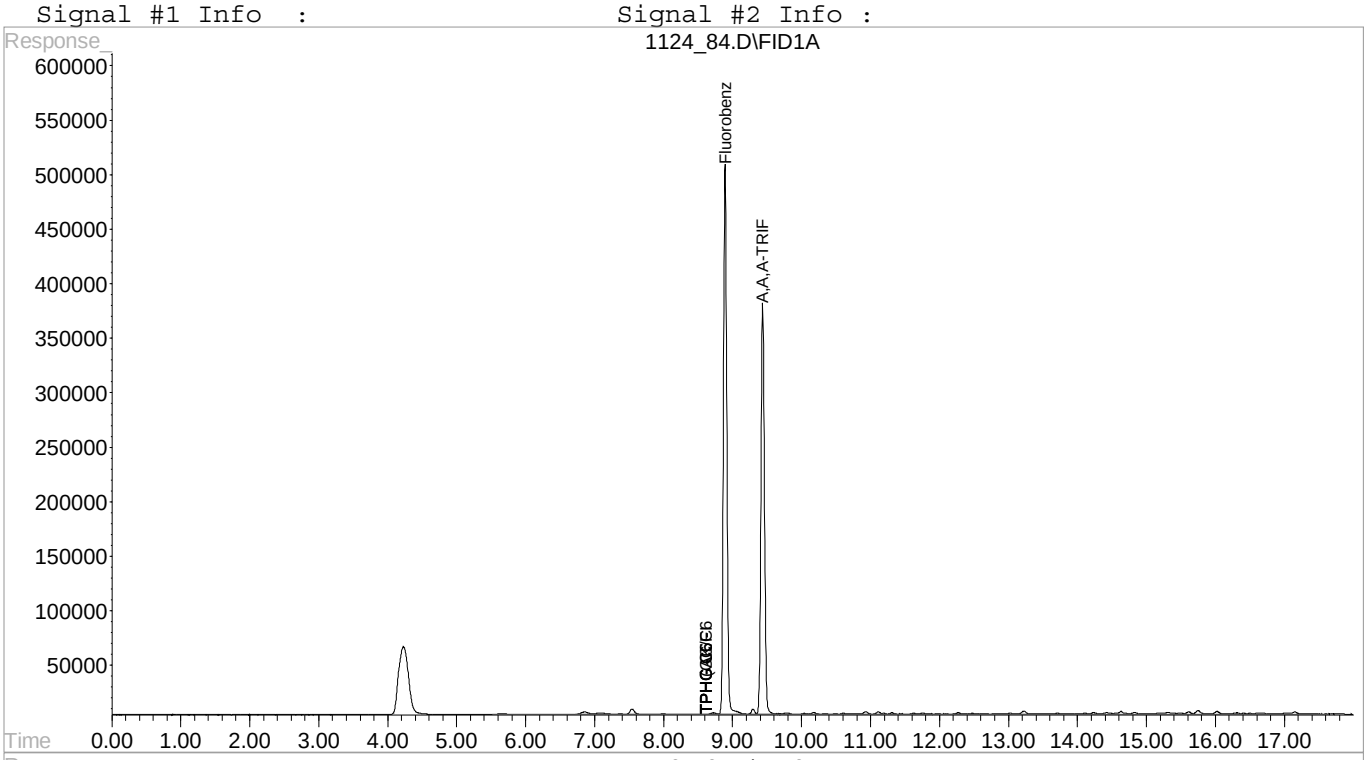
Compound	R.T.	Response	Conc	Units
Internal Standards				
1) I Fluorobenzene #1	8.89	17168383	200.0000000	ppb
9) I Fluorobenzene #2	8.89	10225187	200.0000000	ppb
System Monitoring Compounds				
7) S A,A,A-TRIFLUOROTOLUENE(FID	9.44	13267822	197.9002995	ppb
Spiked Amount 200.000 Range 62 - 128		Recovery = 98.95%		
10) S A,A,A-TRIFLUOROTOLUENE(PID	9.44	5793951	NoCal	ppb
Spiked Amount 200.000 Range 55 - 122		Recovery = 0.00%#		
Target Compounds				
2) H,M TPHG C4 - C12	0.00	14919	NoCal	ppm
3) H,M TPHG C5 - C12	8.61	4975848	0.0606156	ppm
4) H,M TPHG C6 - C12	8.61	4463789	0.0559667	ppm
5) H,M TPHGAK C6 to C10	8.61	2526624	0.0402730	ppm
6) h,m TPH (GC/FID) Low Fraction	8.61	2694269	0.0401789	ppm
11) T,M Methyl Tert-Butyl Ether	6.81	44488	NoCal	ppb
12) T,M benzene	8.72	15530	NoCal	ppb
13) T,M toluene	10.61	27596	NoCal	ppb
14) T,M ethylbenzene	0.00	0	N.D.	ppb
15) T,M m&p-xylene	12.27	23151	NoCal	ppb
16) T,M o-xylene	0.00	0	N.D.	ppb
17) T,M 1,3,5-Trimethylbenzene	0.00	0	N.D.	ppb
18) T,M 1,2,4-Trimethylbenzene	14.11	12210	NoCal	ppb
19) T,M Naphthalene	0.00	0	N.D.	ppb

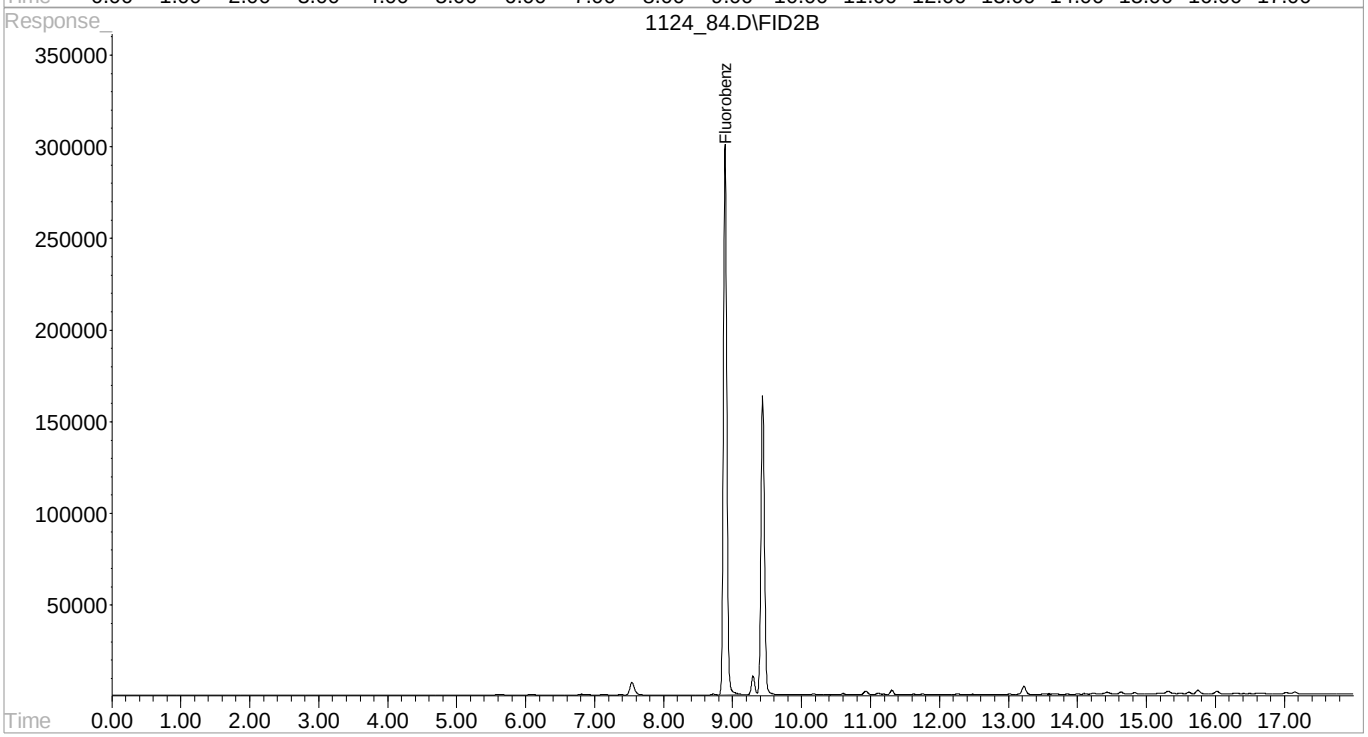
Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\112414\1124 84.D\FID1A.CH Vial: 83
Signal #2 : C:\HPCHEM\1\DATA\112414\1124 84.D\FID2B.CH
Acq On : 26 Nov 2014 4:34 am Operator: 621
Sample : L735181-10 1x WG756338 GRO Inst : VOCGC7
Misc : water ISSURR14F10114 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS3.E
Quant Time: Nov 26 12:50 2014 Quant Results File: BG07I09N.RES

Quant Method : C:\HPCHEM\1\METHODS\BG07I09N.M (Chemstation Integrator)
Title : WIS GRO VOCGC07
Last Update : Wed Sep 10 13:45:13 2014
Response via : Single Level Calibration
DataAcq Meth : VOCGC14A.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\112414\1124 89.D\FID1A.CH Vial: 88
Signal #2 : C:\HPCHEM\1\DATA\112414\1124 89.D\FID2B.CH
Acq On : 26 Nov 2014 6:41 am Operator: 621
Sample : CCV GRO 5.5g ppm 14K19014 Inst : VOCGC7
Misc : water ISSURR14F10114 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS3.E
Quant Time: Nov 26 12:51 2014 Quant Results File: BG07I09N.RES

Quant Method : C:\HPCHEM\1\METHODS\BG07I09N.M (Chemstation Integrator)
Title : WIS GRO VOCGC07
Last Update : Wed Sep 10 13:45:13 2014
Response via : Initial Calibration
DataAcq Meth : VOCGC14A.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

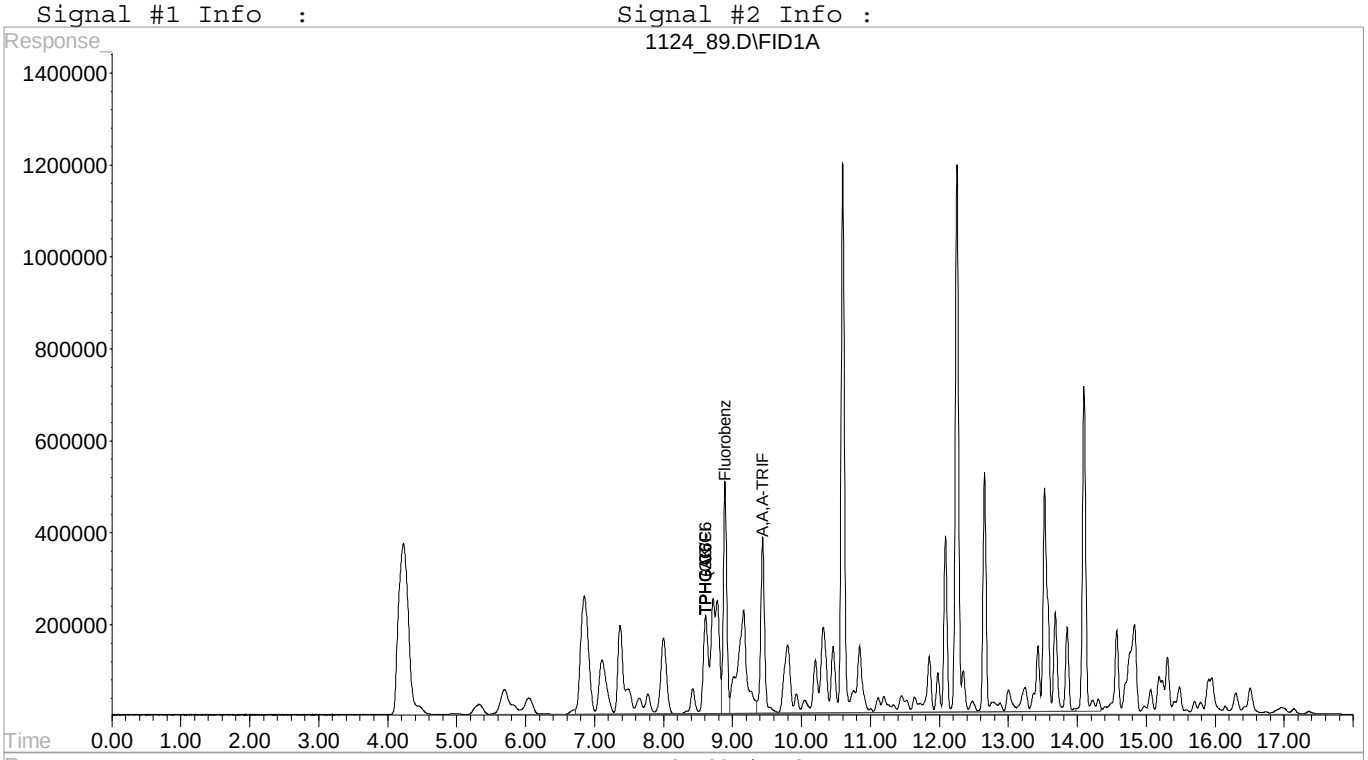
Compound	R.T.	Response	Conc	Units
Internal Standards				
1) I Fluorobenzene #1	8.89	17843903	200.0000000	ppb
9) I Fluorobenzene #2	8.89	11134476	200.0000000	ppb
System Monitoring Compounds				
7) S A,A,A-TRIFLUOROTOLUENE(FID	9.44	15645937	224.5370081	ppb
Spiked Amount 200.000 Range 62 - 128		Recovery = 112.27%		
10) S A,A,A-TRIFLUOROTOLUENE(PID	9.44	6907012	NoCal	ppb
Spiked Amount 200.000 Range 55 - 122		Recovery = 0.00%#		
Target Compounds				
2) H,M TPHG C4 - C12	0.00	16806	NoCal	ppm
3) H,M TPHG C5 - C12	8.61	434365840	5.0911130	ppm
4) H,M TPHG C6 - C12	8.61	425168863	5.1289311	ppm
5) H,M TPHGAK C6 to C10	8.61	325842199	4.9971281	ppm
6) h,m TPH (GC/FID) Low Fraction	8.61	351296907	5.0404633	ppm
11) T,M Methyl Tert-Butyl Ether	6.89	4638189	NoCal	ppb
12) T,M benzene	8.72	6198628	NoCal	ppb
13) T,M toluene	10.60	25899864	NoCal	ppb
14) T,M ethylbenzene	12.09	7756537	NoCal	ppb
15) T,M m&p-xylene	12.26	28147158	NoCal	ppb
16) T,M o-xylene	12.66	10120767	NoCal	ppb
17) T,M 1,3,5-Trimethylbenzene	13.68	6048760	NoCal	ppb
18) T,M 1,2,4-Trimethylbenzene	14.10	15611535	NoCal	ppb
19) T,M Naphthalene	17.36	291335	NoCal	ppb

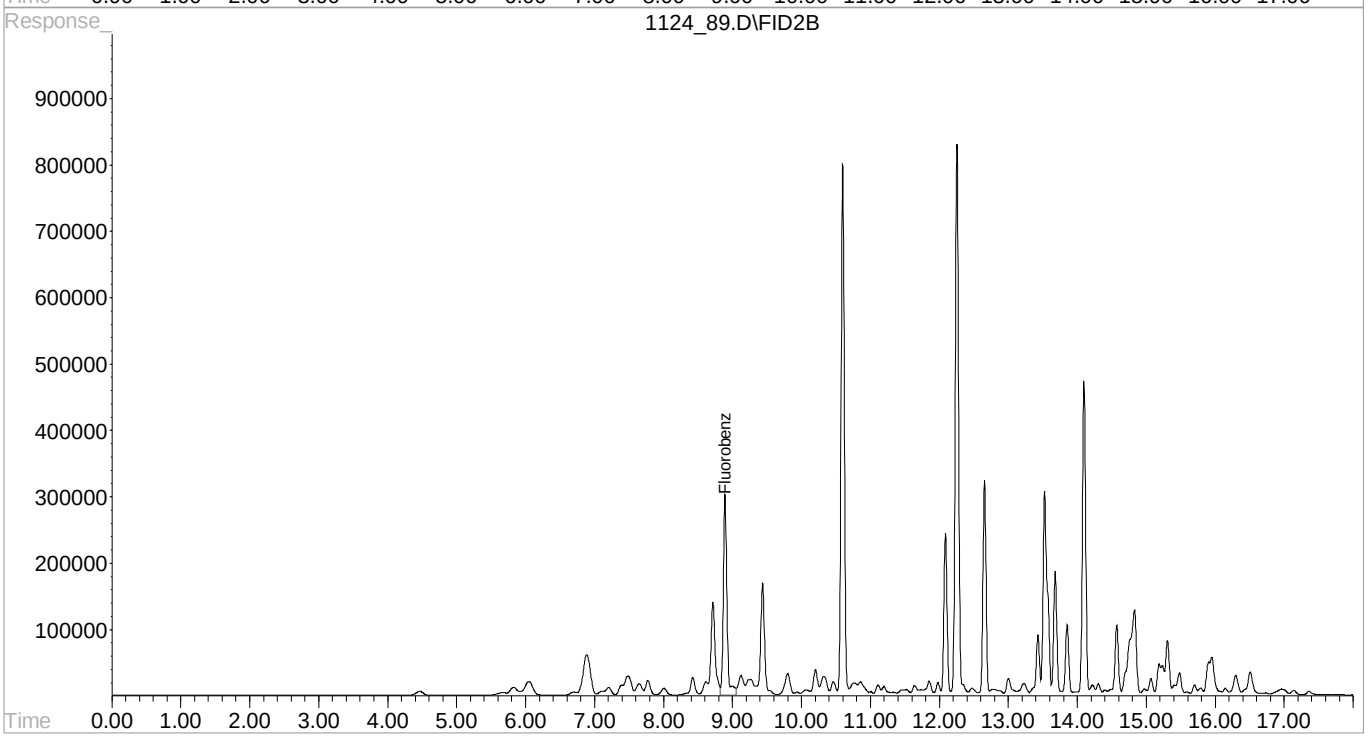
Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\112414\1124 89.D\FID1A.CH Vial: 88
Signal #2 : C:\HPCHEM\1\DATA\112414\1124 89.D\FID2B.CH
Acq On : 26 Nov 2014 6:41 am Operator: 621
Sample : CCV GRO 5.5g ppm 14K19014 Inst : VOCGC7
Misc : water ISSURR14F10114 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS3.E
Quant Time: Nov 26 12:51 2014 Quant Results File: BG07I09N.RES

Quant Method : C:\HPCHEM\1\METHODS\BG07I09N.M (Chemstation Integrator)
Title : WIS GRO VOCGC07
Last Update : Wed Sep 10 13:45:13 2014
Response via : Single Level Calibration
DataAcq Meth : VOCGC14A.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Calibration

Initial Calibration Raw Data

Instrument ID	: VOCGC7	Review Protocol	: AK
Method	: BG07I09N	Review Method	: AK101

Data Released By: Ben Baker

10-SEP-2014 01:50:46 PM
Date

Analyst Comments:

%Recovery criteria has not been met for A,A,A-TRIFLUOROTOLUENE(PID)-1.

Mint Miner 2.04 (80613) Directory Scan: z:\090914

10 Sep 2014 14:02

Level	Status	Code	Operator	Instrument	Sample ID
Scan File Path: z:\090914\0909_01.D					
Original Path: C:\HPCHEM\1\DATA\090914\0909_01.D\FID1A.CH					
0	Scanned		621	VOCGC7	INSTBLK BTEX (water ISSURR14C12923)
Scan File Path: z:\090914\0909_02.D					
Original Path: C:\HPCHEM\1\DATA\090914\0909_02.D\FID1A.CH					
0	Scanned		621	VOCGC7	RT MARKER (water ISSURR14C12923)
Scan File Path: z:\090914\0909_03.D					
Original Path: C:\HPCHEM\1\DATA\090914\0909_03.D\FID1A.CH					
0	Scanned		621	VOCGC7	ICV GRO (water ISSURR14C12923)
Scan File Path: z:\090914\0909_04.D					
Original Path: C:\HPCHEM\1\DATA\090914\0909_04.D\FID1A.CH					
1	Scanned	ENR(1)	621	VOCGC7	dnrICV (water ISSURR14C12923)
Scan File Path: z:\090914\0909_05.D					
Original Path: C:\HPCHEM\1\DATA\090914\0909_05.D\FID1A.CH					
0	Scanned		621	VOCGC7	LCS (water ISSURR14C12923)
Scan File Path: z:\090914\0909_06.D					
Original Path: C:\HPCHEM\1\DATA\090914\0909_06.D\FID1A.CH					
0	Scanned		621	VOCGC7	LCS (water ISSURR14C12923)
Scan File Path: z:\090914\0909_07.D					
Original Path: z:\090914\0909_07.D					
0	No Audit				
Scan File Path: z:\090914\0909_08.D					
Original Path: z:\090914\0909_08.D					
0	No Audit				
Scan File Path: z:\090914\0909_09.D					
Original Path: C:\HPCHEM\1\DATA\090914\0909_09.D\FID1A.CH					
17	Scanned	D(12), DK(2), DC(2), ENR(1)	621	VOCGC7	STD GRO .055 ppm 14I07115 (water ISSURR1
Scan File Path: z:\090914\0909_10.D					
Original Path: C:\HPCHEM\1\DATA\090914\0909_10.D\FID1A.CH					
17	Scanned	D(12), DK(2), DC(2), ENR(1)	621	VOCGC7	STD GRO .11 ppm 14I07115 (water ISSURR14(
Scan File Path: z:\090914\0909_11.D					
Original Path: C:\HPCHEM\1\DATA\090914\0909_11.D\FID1A.CH					
17	Scanned	D(12), DK(2), DC(2), ENR(1)	621	VOCGC7	STD GRO .55 ppm 14I07115 (water ISSURR14(

Level	Status	Code	Operator	Instrument	Sample ID
Scan File Path: z:\090914\0909_12.D					
Original Path: C:\HPCHEM\1\DATA\090914\0909_12.D\FID1A.CH					
17	Scanned	D(12), DK(2), DC(2), ENR(1)	621	VOCGC7	STD GRO 1.1 ppm 14I07115 (water ISSURR14
Scan File Path: z:\090914\0909_13.D					
Original Path: C:\HPCHEM\1\DATA\090914\0909_13.D\FID1A.CH					
17	Scanned	D(12), DK(2), DC(2), ENR(1)	621	VOCGC7	STD GRO 2.75 ppm 14I07115 (water ISSURR1
Scan File Path: z:\090914\0909_14.D					
Original Path: C:\HPCHEM\1\DATA\090914\0909_14.D\FID1A.CH					
35	Scanned	D(24), DK(4), DC(4), QM(1), ENR(1)	621	VOCGC7	STD GRO 5.5 ppm 14I07115 (water ISSURR14
Scan File Path: z:\090914\0909_15.D					
Original Path: C:\HPCHEM\1\DATA\090914\0909_15.D\FID1A.CH					
17	Scanned	D(12), DK(2), DC(2), ENR(1)	621	VOCGC7	STD GRO 11 ppm 14I07115 (water ISSURR14C
Scan File Path: z:\090914\0909_16.D					
Original Path: z:\090914\0909_16.D					
0	No Audit				
Scan File Path: z:\090914\0909_17.D					
Original Path: C:\HPCHEM\1\DATA\090914\0909_17.D\FID1A.CH					
1	Scanned	ENR(1)	621	VOCGC7	SSCV GRO 5.5 ppb 14I07117 (water ISSURR1
Scan File Path: z:\090914\0909_18.D					
Original Path: z:\090914\0909_18.D					
0	No Audit				
Scan File Path: z:\090914\0909_19.D					
Original Path: C:\HPCHEM\1\DATA\090914\0909_19.D\FID1A.CH					
0	Scanned		621	VOCGC7	BTEX .25 ppb LOD (water ISSURR14C12923)

D = Deletion of any analyte
DK = Deletion of a spike compound
QM = Processed >3 times using the same method
DC = Deletion of a CCC
EN = Quant report set to not reviewed (Disables MZ code)

ScanSummary.rpt

Total Files Scanned	Beginning Analyzed Date
Methods	Ending Analyzed Date
Samples	Analyzed Range
Tunes	Greatest Time Between Tunes
CCCs	Greatest Time Between CCCs

Distinct Method Last Updated count
Operators Intruments

Initial Calibration Raw Data

Instrument ID	: VOCGC7	Review Protocol	: AZ
Method	: BG07I09N	Review Method	: GROAZ

Data Released By: Ben Baker

10-SEP-2014 01:50:47 PM
Date

Analyst Comments:

%Recovery criteria has not been met for A,A,A-TRIFLUOROTOLUENE(PID)-1.

Initial Calibration Raw Data

Instrument ID	: VOCGC7	Review Protocol	: IN
Method	: BG07I09N	Review Method	: 8015D

Data Released By: Ben Baker

10-SEP-2014 01:51:12 PM
Date

Analyst Comments:

Initial Calibration Raw Data

Instrument ID	: VOCGC7	Review Protocol	: SW846
Method	: BG07I09N	Review Method	: 8015-8021

Data Released By: Ben Baker

10-SEP-2014 01:51:28 PM
Date

Analyst Comments:

%Recovery criteria has not been met for A,A,A-TRIFLUOROTOLUENE(PID)-1.

Instrument: VOCGC7
Method: BG07I09N

Initial Calibration Run Log

File ID	Level ID	Date Analyzed
0821_04.D	0.5	8/21/2014 1:06:00 PM
0821_05.D	1	8/21/2014 1:31:00 PM
0821_06.D	5	8/21/2014 1:56:00 PM
0821_07.D	10	8/21/2014 2:21:00 PM
0821_08.D	25	8/21/2014 2:47:00 PM
0821_09.D	50	8/21/2014 3:12:00 PM
0821_10.D	100	8/21/2014 3:37:00 PM
0821_11.D	150	8/21/2014 4:02:00 PM
0821_12.D	200	8/21/2014 4:27:00 PM
0821_13.D	250	8/21/2014 4:52:00 PM
0909_09.D	.05G	9/9/2014 4:05:00 PM
0909_10.D	.11G	9/9/2014 4:30:00 PM
0909_11.D	.55G	9/9/2014 4:56:00 PM
0909_12.D	1.1G	9/9/2014 5:21:00 PM
0909_13.D	2.7G	9/9/2014 5:46:00 PM
0909_14.D	5.5G	9/9/2014 6:11:00 PM
0909_15.D	11G	9/9/2014 6:36:00 PM

Environmental Science Corporation
12065 Lebanon Rd., Mt. Juliet, TN 37122

Injection Log

Instrument ID : VOCGC7
Computer Name : VOCCOMPO
Released By : Ben Baker
Date Released : 9/10/2014 1:51:45 PM
Run ID : 090914
Signature : _____

#	File ID	Sample ID	Method	WG	Product	Matrix	Account #	State	Dil.	Mult.	Injected	Misc.
1	0821_04	STD BTEX .5 PPM 14G09861	BG07H21N						1	1	08/21/14 1306	"soil ISSURR14C12923"
2	0821_05	STD BTEX 1 PPM 14G09861	BG07H21N						1	1	08/21/14 1331	"soil ISSURR14C12923"
3	0821_06	STD BTEX 5 PPM 14G09861	BG07H21N						1	1	08/21/14 1356	"soil ISSURR14C12923"
4	0821_07	STD BTEX 10 PPM 14G09861	BG07H21N						1	1	08/21/14 1421	"soil ISSURR14C12923"
5	0821_08	STD BTEX 25 PPM 14G09861	BG07H21N						1	1	08/21/14 1447	"soil ISSURR14C12923"
6	0821_09	MSTD BTEX 50 PPM 14G09861	BG07H21N						1	1	08/21/14 1512	"soil ISSURR14C12923"
7	0821_10	STD BTEX 100 PPM 14G09861	BG07H21N						1	1	08/21/14 1537	"water ISSURR14C12923"
8	0821_11	STD BTEX 150 PPM 14G09861	BG07H21N						1	50	08/21/14 1602	"water ISSURR14C12923"
9	0821_12	STD BTEX 200 PPM 14G09861	BG07H21N						1	5	08/21/14 1627	"water ISSURR14C12923"
10	0821_13	STD BTEX 250 PPM 14G09861	BG07H21N						1	1	08/21/14 1652	"water ISSURR14C12923"
11	0821_15	SSCV BTEX 50 PPM 14G09864	BG07H21N						1	1	08/21/14 1743	"water ISSURR14C12923"
12	0909_01	INSTBLK	BG07I09N						1	1	09/09/14 0809	"water ISSURR14C12923"
13	0909_09	STD GRO .055 PPM 14I07115	BG07I09N						1	1	09/09/14 1605	"water ISSURR14C12923"

Environmental Science Corporation
12065 Lebanon Rd., Mt. Juliet, TN 37122

Injection Log

Instrument ID : VOCGC7
Computer Name : VOCCOMPO
Released By : Ben Baker
Date Released : 9/10/2014 1:51:45 PM
Run ID : 090914
Signature : _____

#	File ID	Sample ID	Method	WG	Product	Matrix	Account #	State	Dil.	Mult.	Injected	Misc.
14	0909_10	STD GRO .11 PPM 14I07115	BG07I09N						1	1	09/09/14 1630	"water ISSURR14C12923"
15	0909_11	STD GRO .55 PPM 14I07115	BG07I09N						1	1	09/09/14 1656	"water ISSURR14C12923"
16	0909_12	STD GRO 1.1 PPM 14I07115	BG07I09N						1	1	09/09/14 1721	"water ISSURR14C12923"
17	0909_13	STD GRO 2.75 PPM 14I07115	BG07I09N						1	1	09/09/14 1746	"water ISSURR14C12923"
18	0909_14	MSTD GRO 5.5G PPM 14I07115	BG07I09N						1	1	09/09/14 1811	"water ISSURR14C12923"
19	0909_15	STD GRO 11 PPM 14I07115	BG07I09N						1	1	09/09/14 1836	"water ISSURR14C12923"
20	0909_17	SSCV GRO 5.5G PPM 14I07117	BG07I09N						1	1	09/09/14 1926	"water ISSURR14C12923"

Environmental Science Corporation
12065 Lebanon Rd., Mt. Juliet, TN 37122

INITIAL CALIBRATION SUMMARY

Instrument ID	: VOCGC7	Review Method	: AK101	Released By	: Ben Baker
Method	: BG07I09N	Review Protocol	: AK	Released On	: 9/10/2014 1:51:45 PM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- BG07I09N -- ICal Updated Time: Wed Sep 10 13:45:13 2014

Parameter	Col	.05G	.11G	.55G	1.1G	2.7G	5.5G	11G	AvgRF	%RSD	COD	Cur
Fluorobenzene	1											
TPHG C4 - C12	1								0	0	0	1
TPHG C5 - C12	1	1095	1108	909	943	911	866	863	956	10.76	0.108	1
TPHG C6 - C12	1	1056	1075	885	919	887	843	840	929	10.45	0.105	1
TPHGAK C6 to C10	1	850.3	837	693.4	716.8	693.7	660.9	663.9	730.8	10.87	0.109	1
TPH (GC/FID) Low Fraction	1	908.3	893.9 999	741	766.4	741.7	706.8	710	781.2	10.82	0.108	1
A,A,A-TRIFLUOROTOLUENE(FID)	1	0.739	0.735	0.727	0.748	0.772	0.823	0.923	0.781	9.01	0.09	1
Fluorobenzene	2											
A,A,A-TRIFLUOROTOLUENE(PID)	2								0	0	0	1
Methyl Tert-Butyl Ether	2								0	0	0	1
benzene	2								0	0	0	1
toluene	2								0	0	0	1
ethylbenzene	2								0	0	0	1
m&p-xylene	2								0	0	0	1
o-xylene	2								0	0	0	1
1,3,5-Trimethylbenzene	2								0	0	0	1
1,2,4-Trimethylbenzene	2								0	0	0	1
Naphthalene	2								0	0	0	1

PDF Generated On: 09/10/2014 By: Ben Baker

Environmental Science Corporation
12065 Lebanon Rd., Mt. Juliet, TN 37122

INITIAL CALIBRATION SUMMARY

Instrument ID	: VOCGC7	Review Method	: GROAZ	Released By	: Ben Baker
Method	: BG07I09N	Review Protocol	: AZ	Released On	: 9/10/2014 1:50:47 PM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- BG07I09N -- ICal Updated Time: Wed Sep 10 13:45:13 2014

Parameter	Col	.05G	.11G	.55G	1.1G	2.7G	5.5G	11G	AvgRF	%RSD	COD	Cur
Fluorobenzene	1											
TPHG C4 - C12	1								0	0	0	1
TPHG C5 - C12	1	1095	1108	909	943	911	866	863	956	10.76	0.108	1
TPHG C6 - C12	1	1056	1075	885	919	887	843	840	929	10.45	0.105	1
TPHGAK C6 to C10	1	850.3	837	693.4	716.8	693.7	660.9	663.9	730.8	10.87	0.109	1
TPH (GC/FID) Low Fraction	1	908.3	893.9 999	741	766.4	741.7	706.8	710	781.2	10.82	0.108	1
A,A,A-TRIFLUOROTOLUENE(FID)	1	0.739	0.735	0.727	0.748	0.772	0.823	0.923	0.781	9.01	0.09	1
Fluorobenzene	2											
A,A,A-TRIFLUOROTOLUENE(PID)	2								0	0	0	1
Methyl Tert-Butyl Ether	2								0	0	0	1
benzene	2								0	0	0	1
toluene	2								0	0	0	1
ethylbenzene	2								0	0	0	1
m&p-xylene	2								0	0	0	1
o-xylene	2								0	0	0	1
1,3,5-Trimethylbenzene	2								0	0	0	1
1,2,4-Trimethylbenzene	2								0	0	0	1
Naphthalene	2								0	0	0	1

PDF Generated On: 09/10/2014 By: Ben Baker

Environmental Science Corporation
12065 Lebanon Rd., Mt. Juliet, TN 37122

INITIAL CALIBRATION SUMMARY

Instrument ID	: VOCGC7	Review Method	: 8015D	Released By	: Ben Baker
Method	: BG07I09N	Review Protocol	: IN	Released On	: 9/10/2014 1:51:12 PM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- BG07I09N -- ICal Updated Time: Wed Sep 10 13:45:13 2014

Parameter	Col	.05G	.11G	.55G	1.1G	2.7G	5.5G	11G	AvgRF	%RSD	COD	Cur
Fluorobenzene	1											
TPHG C4 - C12	1								0	0	0	1
TPHG C5 - C12	1	1095	1108	909	943	911	866	863	956	10.76	0.108	1
TPHG C6 - C12	1	1056	1075	885	919	887	843	840	929	10.45	0.105	1
TPHGAK C6 to C10	1	850.3	837	693.4	716.8	693.7	660.9	663.9	730.8	10.87	0.109	1
TPH (GC/FID) Low Fraction	1	908.3	893.9 999	741	766.4	741.7	706.8	710	781.2	10.82	0.108	1
A,A,A-TRIFLUOROTOLUENE(FID)	1	0.739	0.735	0.727	0.748	0.772	0.823	0.923	0.781	9.01	0.09	1
Fluorobenzene	2											
A,A,A-TRIFLUOROTOLUENE(PID)	2								0	0	0	1
Methyl Tert-Butyl Ether	2								0	0	0	1
benzene	2								0	0	0	1
toluene	2								0	0	0	1
ethylbenzene	2								0	0	0	1
m&p-xylene	2								0	0	0	1
o-xylene	2								0	0	0	1
1,3,5-Trimethylbenzene	2								0	0	0	1
1,2,4-Trimethylbenzene	2								0	0	0	1
Naphthalene	2								0	0	0	1

PDF Generated On: 09/30/2014 By: Ben Baker

Environmental Science Corporation
12065 Lebanon Rd., Mt. Juliet, TN 37122

INITIAL CALIBRATION SUMMARY

Instrument ID	: VOCGC7	Review Method	: 8015-8021	Released By	: Ben Baker
Method	: BG07I09N	Review Protocol	: SW846	Released On	: 9/10/2014 1:51:28 PM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- BG07I09N -- ICal Updated Time: Wed Sep 10 13:45:13 2014

Parameter	Col	.05G	.11G	.55G	1.1G	2.7G	5.5G	11G	AvgRF	%RSD	COD	Cur
Fluorobenzene	1											
TPHG C4 - C12	1								0	0	0	1
TPHG C5 - C12	1	1095	1108	909	943	911	866	863	956	10.76	0.108	1
TPHG C6 - C12	1	1056	1075	885	919	887	843	840	929	10.45	0.105	1
TPHGAK C6 to C10	1	850.3	837	693.4	716.8	693.7	660.9	663.9	730.8	10.87	0.109	1
TPH (GC/FID) Low Fraction	1	908.3	893.9 999	741	766.4	741.7	706.8	710	781.2	10.82	0.108	1
A,A,A-TRIFLUOROTOLUENE(FID)	1	0.739	0.735	0.727	0.748	0.772	0.823	0.923	0.781	9.01	0.09	1
Fluorobenzene	2											
A,A,A-TRIFLUOROTOLUENE(PID)	2								0	0	0	1
Methyl Tert-Butyl Ether	2								0	0	0	1
benzene	2								0	0	0	1
toluene	2								0	0	0	1
ethylbenzene	2								0	0	0	1
m&p-xylene	2								0	0	0	1
o-xylene	2								0	0	0	1
1,3,5-Trimethylbenzene	2								0	0	0	1
1,2,4-Trimethylbenzene	2								0	0	0	1
Naphthalene	2								0	0	0	1

PDF Generated On: 09/10/2014 By: Ben Baker

Environmental Science Corporation
12065 Lebanon Rd., Mt. Juliet, TN 37122

Manual Integrations - Audit Trail

Instrument ID	: VOCGC7	Method	: BG07I09N
Released By	: Ben Baker	Review Method	: AK101
Released On	: 9/10/2014 1:52:01 PM	Review Protocol	: AK

File ID	Level ID	Parameter	Old Conc.	New Conc.	Old Resp.	New Resp.
0821_04.D	0.5	Methyl Tert-Butyl Ether	0ppb	0.485678ppb	0	12776.6
0821_04.D	0.5	ethylbenzene	0.507654ppb	0.513322ppb	41477.1	41940.2
0821_05.D	1	Methyl Tert-Butyl Ether	0ppb	1.06891ppb	0	29819.4
0821_05.D	1	ethylbenzene	0.959835ppb	0.938592ppb	83162.8	81322.3
0821_05.D	1	o-xylene	0.919883ppb	0.930151ppb	79308.5	80193.8
0821_06.D	5	Methyl Tert-Butyl Ether	5.24632ppb	5.16658ppb	147748	145502

Environmental Science Corporation
12065 Lebanon Rd., Mt. Juliet, TN 37122

IS - SURROGATE SUMMARY REPORT

Instrument ID	: VOCGC7	CCV File ID	: 0821_09	Tune File ID	:
Run ID	: 082114	CCV Analyzed At	: 08/21/14 1512	Tune Analyzed At	:

Sample File ID	Lab Sample ID	Dilution	Product	Matrix	Fluorobenzene	A,A,A-TRIFLUOROTOLUENE(FID)	A,A,A-TRIFLUOROTOLUENE(PID)										
0821_04	STD BTEX .5 PPM 14G09861	1			0	0	102										
0821_05	STD BTEX 1 PPM 14G09861	1			0	0	103										
0821_06	STD BTEX 5 PPM 14G09861	1			0	0	104										
0821_07	STD BTEX 10 PPM 14G09861	1			0	0	104										
0821_08	STD BTEX 25 PPM 14G09861	1			0	0	105										
0821_09	MSTD BTEX 50 PPM 14G09861	1			0	0	105										
0821_10	STD BTEX 100 PPM 14G09861	1			0	0	105										
0821_11	STD BTEX 150 PPM 14G09861	1			0	0	106										
0821_12	STD BTEX 200 PPM 14G09861	1			0	0	106										
0821_13	STD BTEX 250 PPM 14G09861	1			0	0	107										
SECOND COLUMN																	
0821_04	STD BTEX .5 PPM 14G09861	1			1.169328E+07	0	102										
0821_05	STD BTEX 1 PPM 14G09861	1			1.240021E+07	0	103										
0821_06	STD BTEX 5 PPM 14G09861	1			1.251803E+07	0	104										
0821_07	STD BTEX 10 PPM 14G09861	1			1.256142E+07	0	104										
0821_08	STD BTEX 25 PPM 14G09861	1			1.25999E+07	0	105										
0821_09	MSTD BTEX 50 PPM 14G09861	1			1.273018E+07	0	105										
0821_10	STD BTEX 100 PPM 14G09861	1			1.17258E+07	0	105										

IS - SURROGATE SUMMARY REPORT

0821_11	STD BTEX 150 PPM 14G09861	1			1.27986E+07	0	106										
0821_12	STD BTEX 200 PPM 14G09861	1			1.28488E+07	0	106										
0821_13	STD BTEX 250 PPM 14G09861	1			1.263624E+07	0	107										

Sample File ID with Red Background = Tune window failure, * = IS/Surr failure

Environmental Science Corporation
12065 Lebanon Rd., Mt. Juliet, TN 37122

IS - SURROGATE SUMMARY REPORT

Instrument ID	: VOCGC7	CCV File ID	: 0909_14	Tune File ID	:
Run ID	: 090914	CCV Analyzed At	: 09/09/14 1811	Tune Analyzed At	:

Sample File ID	Lab Sample ID	Dilution	Product	Matrix	Fluorobenzene	A,A,A-TRIFLUOROTOLUENE(FID)	A,A,A-TRIFLUOROTOLUENE(PID)									
0909_09	STD GRO .055 PPM 14I07115	1			1.96911E+07	89.8	0									
0909_10	STD GRO .11 PPM 14I07115	1			1.733154E+07	90.2	0									
0909_11	STD GRO .55 PPM 14I07115	1			2.046293E+07	90.2	0									
0909_12	STD GRO 1.1 PPM 14I07115	1			1.943094E+07	93.6	0									
0909_13	STD GRO 2.75 PPM 14I07115	1			2.051831E+07	97.5	0									
0909_14	MSTD GRO 5.5G PPM 14I07115	1			2.071404E+07	105	0									
0909_15	STD GRO 11 PPM 14I07115	1			2.056704E+07	119	0									
SECOND COLUMN																
0909_09	STD GRO .055 PPM 14I07115	1			0	0	0									
0909_10	STD GRO .11 PPM 14I07115	1			0	0	0									
0909_11	STD GRO .55 PPM 14I07115	1			0	0	0									
0909_12	STD GRO 1.1 PPM 14I07115	1			0	0	0									
0909_13	STD GRO 2.75 PPM 14I07115	1			0	0	0									
0909_14	MSTD GRO 5.5G PPM 14I07115	1			0	0	0									
0909_15	STD GRO 11 PPM 14I07115	1			0	0	0									

Sample File ID with Red Background = Tune window failure, * = IS/Surr failure

Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\090914\0909 01.D\FID1A.CH Vial: 1
Signal #2 : C:\HPCHEM\1\DATA\090914\0909 01.D\FID2B.CH
Acq On : 9 Sep 2014 8:09 am Operator: 621
Sample : INSTBLK BTEX Inst : VOCGC7
Misc : water ISSURR14C12923 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS3.E
Quant Time: Sep 10 13:46 2014 Quant Results File: BG07I09N.RES

Quant Method : C:\HPCHEM\1\METHODS\BG07I09N.M (Chemstation Integrator)
Title : WIS GRO VOCGC07
Last Update : Wed Sep 10 13:45:13 2014
Response via : Initial Calibration
DataAcq Meth : VOCGC14A.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

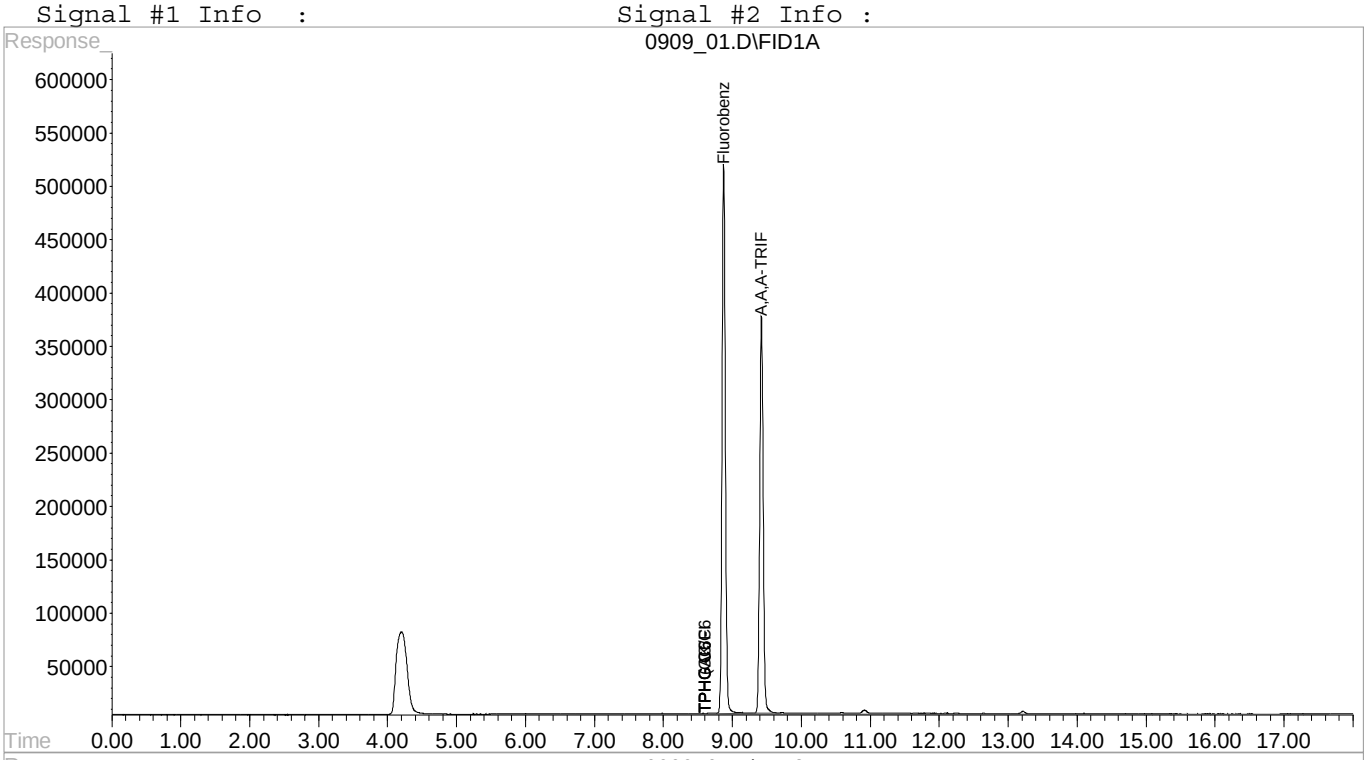
Compound	R.T.	Response	Conc	Units
Internal Standards				
1) I Fluorobenzene #1	8.87	17176137	200.0000000	ppb
9) I Fluorobenzene #2	8.87	10594668	200.0000000	ppb
System Monitoring Compounds				
7) S A,A,A-TRIFLUOROTOLUENE(FID	9.42	13166821	196.3051381	ppb
Spiked Amount 200.000 Range 62 - 128		Recovery = 98.15%		
10) S A,A,A-TRIFLUOROTOLUENE(PID	9.42	5924524	NoCal	ppb
Spiked Amount 200.000 Range 55 - 122		Recovery = 0.00%#		
Target Compounds				
2) H,M TPHG C4 - C12	0.00	28229	NoCal	ppm
3) H,M TPHG C5 - C12	8.61	3977447	0.0484313	ppm
4) H,M TPHG C6 - C12	8.61	3330529	0.0417391	ppm
5) H,M TPHGAK C6 to C10	8.61	2852865	0.0454526	ppm
6) h,m TPH (GC/FID) Low Fraction	8.61	2914537	0.0434440	ppm
11) T,M Methyl Tert-Butyl Ether	0.00	0	N.D.	ppb
12) T,M benzene	0.00	0	N.D.	ppb
13) T,M toluene	0.00	0	N.D.	ppb
14) T,M ethylbenzene	0.00	0	N.D.	ppb
15) T,M m&p-xylene	12.25	17032	NoCal	ppb
16) T,M o-xylene	0.00	0	N.D.	ppb
17) T,M 1,3,5-Trimethylbenzene	0.00	0	N.D.	ppb
18) T,M 1,2,4-Trimethylbenzene	0.00	0	N.D.	ppb
19) T,M Naphthalene	0.00	0	N.D.	ppb

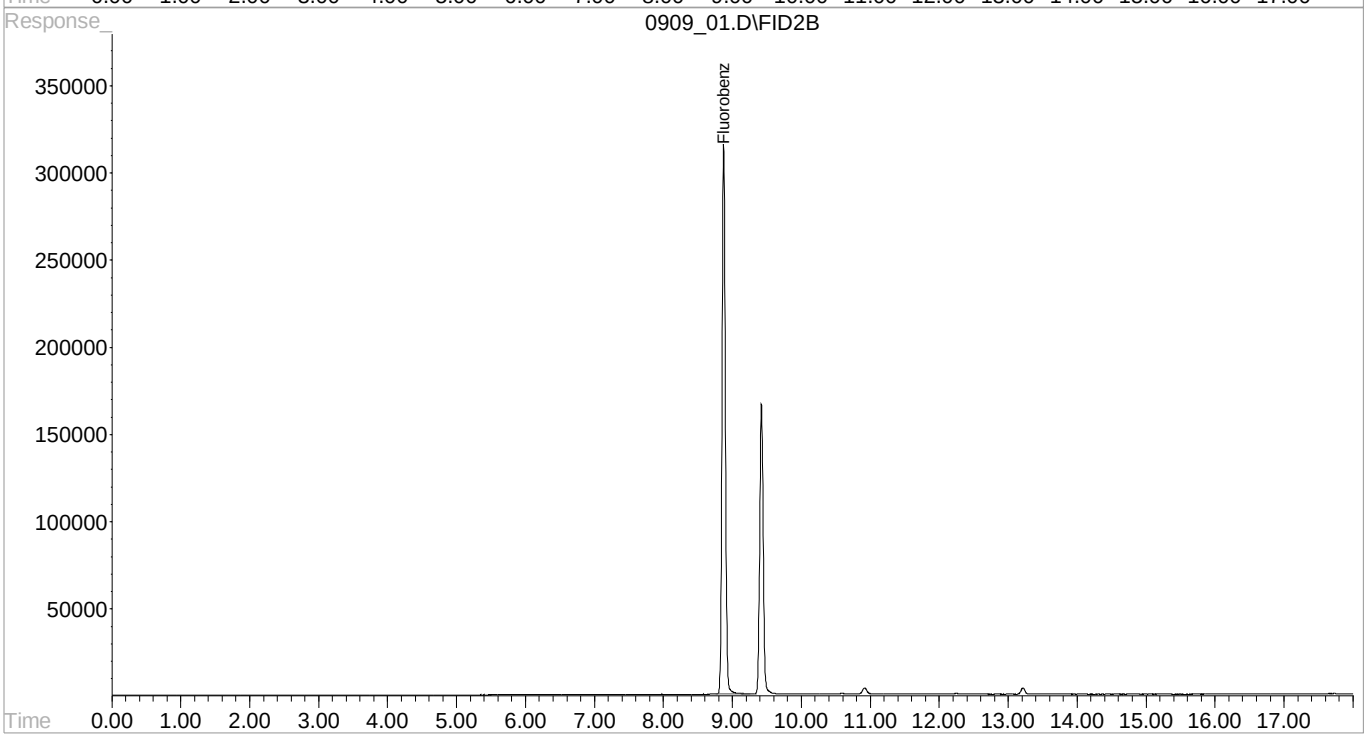
Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\090914\0909 01.D\FID1A.CH Vial: 1
Signal #2 : C:\HPCHEM\1\DATA\090914\0909 01.D\FID2B.CH
Acq On : 9 Sep 2014 8:09 am Operator: 621
Sample : INSTBLK BTEX Inst : VOCGC7
Misc : water ISSURR14C12923 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS3.E
Quant Time: Sep 10 13:46 2014 Quant Results File: BG07I09N.RES

Quant Method : C:\HPCHEM\1\METHODS\BG07I09N.M (Chemstation Integrator)
Title : WIS GRO VOCGC07
Last Update : Wed Sep 10 13:45:13 2014
Response via : Single Level Calibration
DataAcq Meth : VOCGC14A.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Quantitation Report (Not Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\090914\0909 01.D\FID1A.CH Vial: 1
Signal #2 : C:\HPCHEM\1\DATA\090914\0909 01.D\FID2B.CH
Acq On : 9 Sep 2014 8:09 am Operator: 621
Sample : INSTBLK BTEX Inst : VOCGC7
Misc : water ISSURR14C12923 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS3.E
Quant Time: Sep 10 13:46 2014 Quant Results File: BG07I09N.RES

Quant Method : C:\HPCHEM\1\METHODS\BG07I09N.M (Chemstation Integrator)
Title : WIS GRO VOCGC07
Last Update : Wed Sep 10 13:45:13 2014
Response via : Initial Calibration
DataAcq Meth : VOCGC14A.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

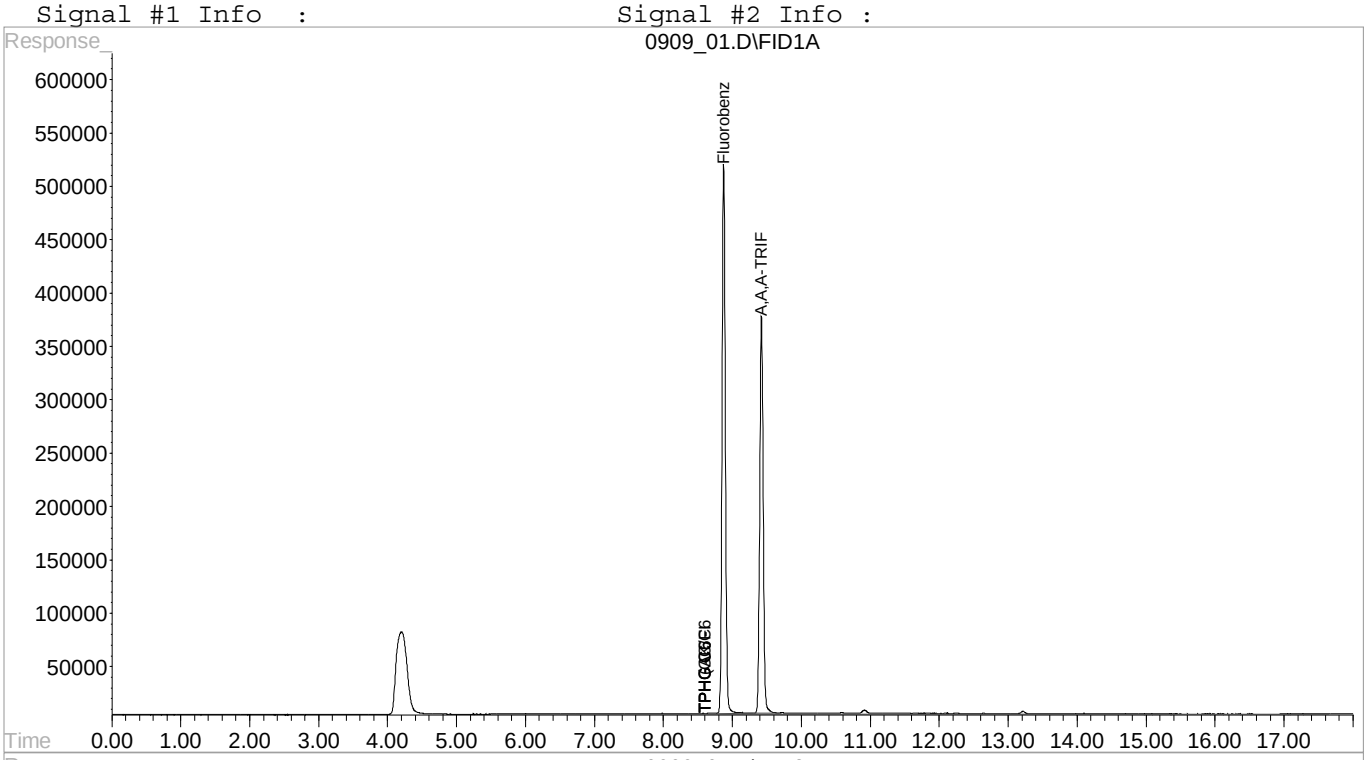
Compound	R.T.	Response	Conc	Units
Internal Standards				
1) I Fluorobenzene #1	8.87	17176137	200.0000000	ppb
9) I Fluorobenzene #2	8.87	10594668	200.0000000	ppb
System Monitoring Compounds				
7) S A,A,A-TRIFLUOROTOLUENE(FID	9.42	13166821	196.3051381	ppb
Spiked Amount 200.000 Range 62 - 128		Recovery = 98.15%		
10) S A,A,A-TRIFLUOROTOLUENE(PID	9.42	5924524	NoCal	ppb
Spiked Amount 200.000 Range 55 - 122		Recovery = 0.00%#		
Target Compounds				
2) H,M TPHG C4 - C12	0.00	28229	NoCal	ppm
3) H,M TPHG C5 - C12	8.61	3977447	0.0484313	ppm
4) H,M TPHG C6 - C12	8.61	3330529	0.0417391	ppm
5) H,M TPHGAK C6 to C10	8.61	2852865	0.0454526	ppm
6) h,m TPH (GC/FID) Low Fraction	8.61	2914537	0.0434440	ppm
11) T,M Methyl Tert-Butyl Ether	0.00	0	N.D.	ppb
12) T,M benzene	0.00	0	N.D.	ppb
13) T,M toluene	0.00	0	N.D.	ppb
14) T,M ethylbenzene	0.00	0	N.D.	ppb
15) T,M m&p-xylene	12.25	17032	NoCal	ppb
16) T,M o-xylene	0.00	0	N.D.	ppb
17) T,M 1,3,5-Trimethylbenzene	0.00	0	N.D.	ppb
18) T,M 1,2,4-Trimethylbenzene	0.00	0	N.D.	ppb
19) T,M Naphthalene	0.00	0	N.D.	ppb

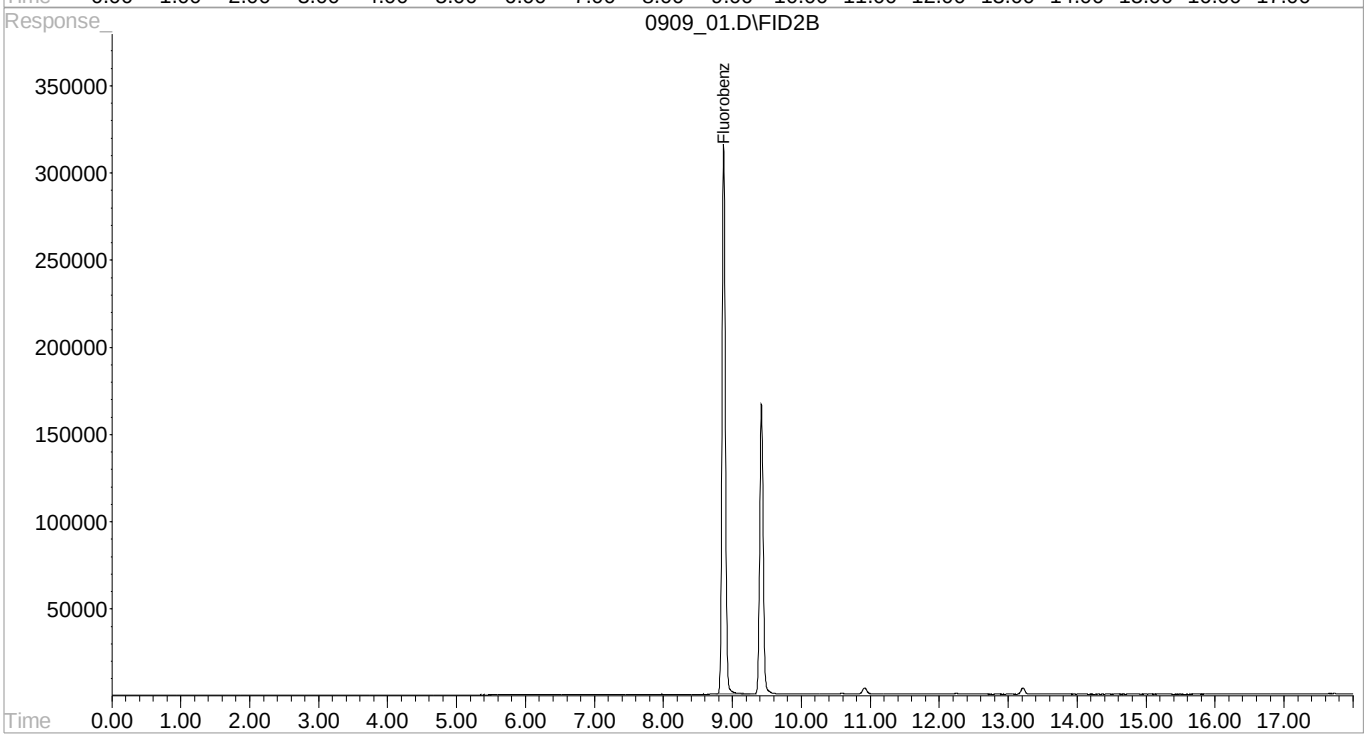
Quantitation Report (Not Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\090914\0909 01.D\FID1A.CH Vial: 1
Signal #2 : C:\HPCHEM\1\DATA\090914\0909 01.D\FID2B.CH
Acq On : 9 Sep 2014 8:09 am Operator: 621
Sample : INSTBLK BTEX Inst : VOCGC7
Misc : water ISSURR14C12923 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS3.E
Quant Time: Sep 10 13:46 2014 Quant Results File: BG07I09N.RES

Quant Method : C:\HPCHEM\1\METHODS\BG07I09N.M (Chemstation Integrator)
Title : WIS GRO VOCGC07
Last Update : Wed Sep 10 13:45:13 2014
Response via : Single Level Calibration
DataAcq Meth : VOCGC14A.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\090914\0909 01.D\FID1A.CH Vial: 1
Signal #2 : C:\HPCHEM\1\DATA\090914\0909 01.D\FID2B.CH
Acq On : 9 Sep 2014 8:09 am Operator: 621
Sample : INSTBLK BTEX Inst : VOCGC7
Misc : water ISSURR14C12923 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS3.E
Quant Time: Sep 10 13:46 2014 Quant Results File: BG07I09N.RES

Quant Method : C:\HPCHEM\1\METHODS\BG07I09N.M (Chemstation Integrator)
Title : WIS GRO VOCGC07
Last Update : Wed Sep 10 13:45:13 2014
Response via : Initial Calibration
DataAcq Meth : VOCGC14A.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

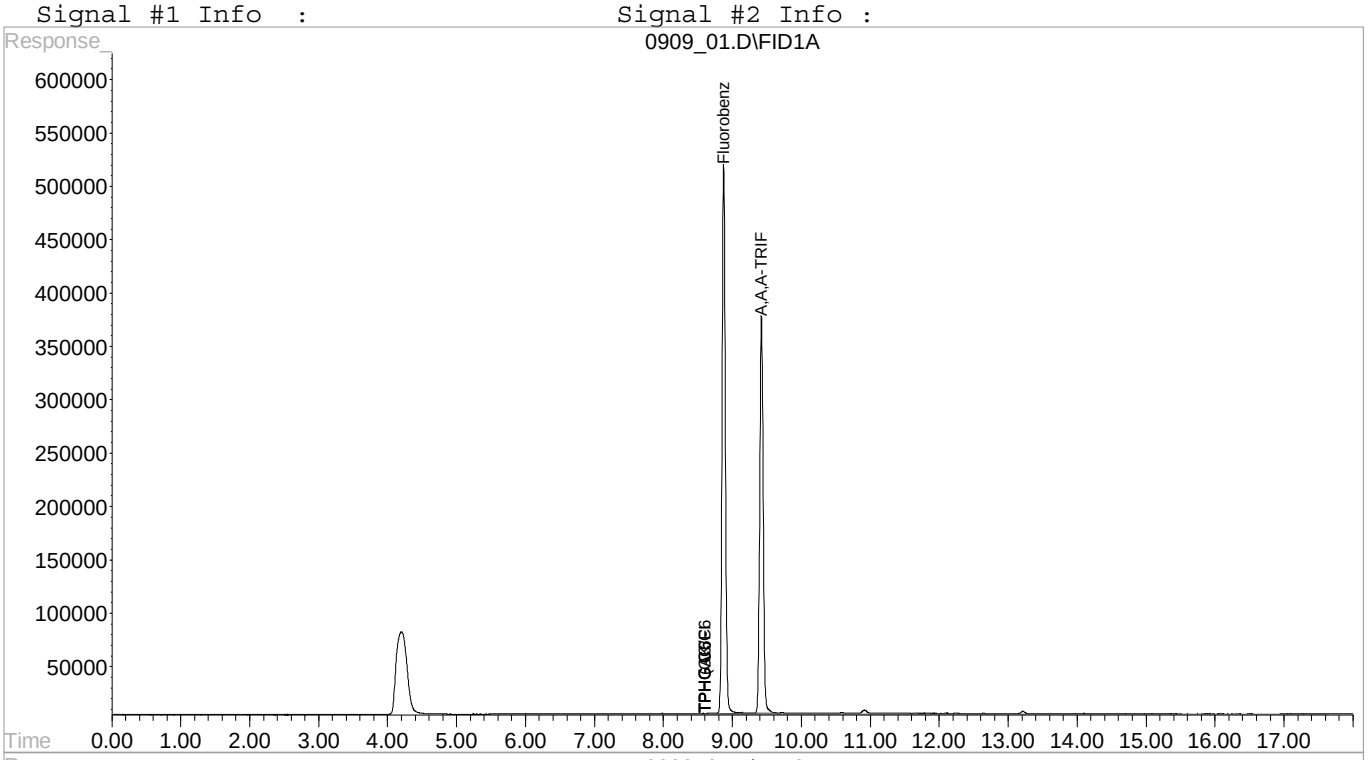
	Compound	R.T.	Response	Conc	Units
	Internal Standards				
1) I	Fluorobenzene #1	8.87	17176137	200.0000000	ppb
9) I	Fluorobenzene #2	8.87	10594668	200.0000000	ppb
	System Monitoring Compounds				
7) S	A,A,A-TRIFLUOROTOLUENE(FID	9.42	13166821	196.3051381	ppb
Spiked Amount	200.000 Range 62 - 128	Recovery =	98.15%		
10) S	A,A,A-TRIFLUOROTOLUENE(PID	9.42	5924524	NoCal	ppb
Spiked Amount	200.000 Range 55 - 122	Recovery =	0.00%#		
	Target Compounds				
2) H,M	TPHG C4 - C12	0.00	28229	NoCal	ppm
3) H,M	TPHG C5 - C12	8.61	3977447	0.0484313	ppm
4) H,M	TPHG C6 - C12	8.61	3330529	0.0417391	ppm
5) H,M	TPHGAK C6 to C10	8.61	2852865	0.0454526	ppm
6) h,m	TPH (GC/FID) Low Fraction	8.61	2914537	0.0434440	ppm
11) T,M	Methyl Tert-Butyl Ether	0.00	0	N.D.	ppb
12) T,M	benzene	0.00	0	N.D.	ppb
13) T,M	toluene	0.00	0	N.D.	ppb
14) T,M	ethylbenzene	0.00	0	N.D.	ppb
15) T,M	m&p-xylene	12.25	17032	NoCal	ppb
16) T,M	o-xylene	0.00	0	N.D.	ppb
17) T,M	1,3,5-Trimethylbenzene	0.00	0	N.D.	ppb
18) T,M	1,2,4-Trimethylbenzene	0.00	0	N.D.	ppb
19) T,M	Naphthalene	0.00	0	N.D.	ppb

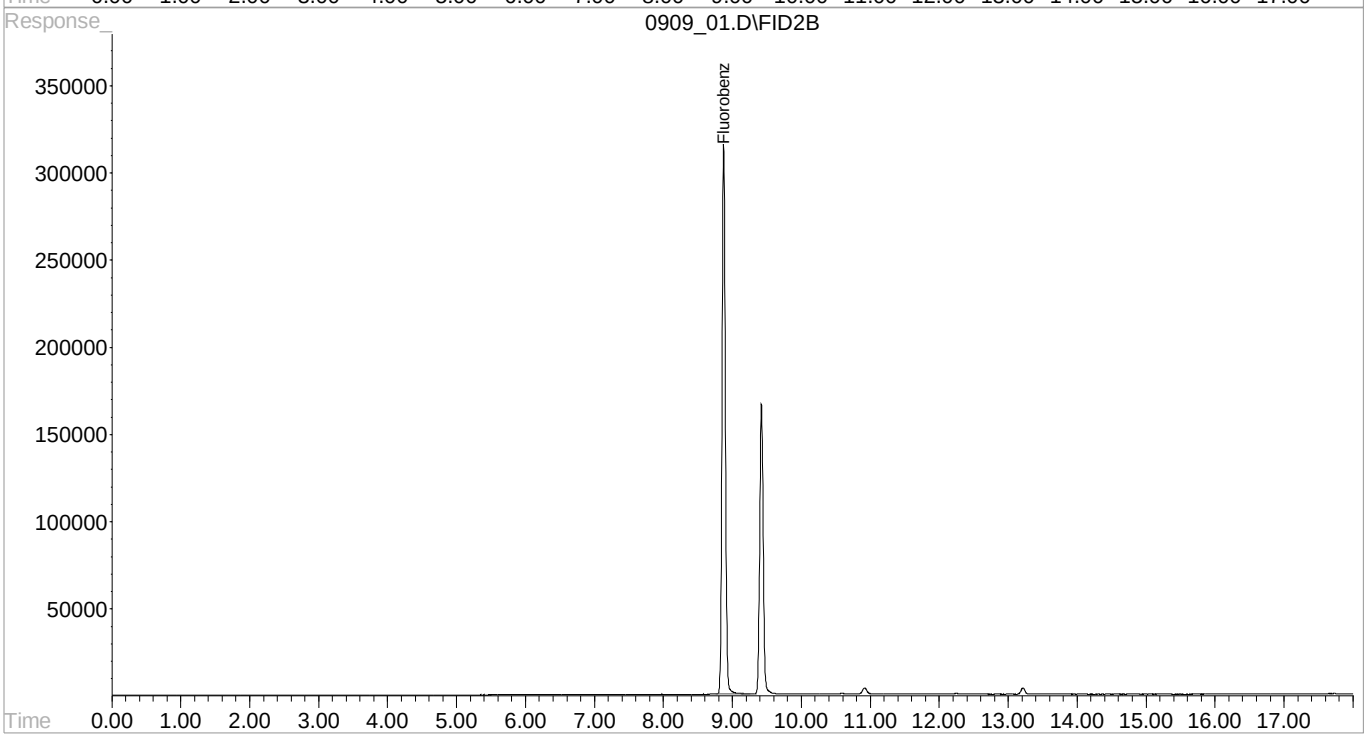
Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\090914\0909 01.D\FID1A.CH Vial: 1
Signal #2 : C:\HPCHEM\1\DATA\090914\0909 01.D\FID2B.CH
Acq On : 9 Sep 2014 8:09 am Operator: 621
Sample : INSTBLK BTEX Inst : VOCGC7
Misc : water ISSURR14C12923 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS3.E
Quant Time: Sep 10 13:46 2014 Quant Results File: BG07I09N.RES

Quant Method : C:\HPCHEM\1\METHODS\BG07I09N.M (Chemstation Integrator)
Title : WIS GRO VOCGC07
Last Update : Wed Sep 10 13:45:13 2014
Response via : Single Level Calibration
DataAcq Meth : VOCGC14A.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Environmental Science Corporation
12065 Lebanon Rd., Mt. Juliet, TN 37122

SSCV Summary Report

Instrument ID	: VOCGC7	Analysis Date	: 09/09/14 1926	ICal Method	: AK101
Lab File ID	: 0909_17	Quant Method	: BG07I09N	ICal Protocol	: AK

Parameter	Col	Resp.	Std. Conc	IS Conc.	IS Resp.	RF	% Rec	%Rec LL	%RecHL
Methyl Tert-Butyl Ether	2	4892687	0	0.2	1.302067E+07	0			
benzene	2	8703686	0	0.2	1.302067E+07	0			
toluene	2	4.252854E+07	0	0.2	1.302067E+07	0			
ethylbenzene	2	8946644	0	0.2	1.302067E+07	0			
m&p-xylene	2	3.456767E+07	0	0.2	1.302067E+07	0			
o-xylene	2	1.257221E+07	0	0.2	1.302067E+07	0			
XYLENES, TOTAL	2	4.713988E+07	0	0.2	1.302067E+07	0			
1,3,5-Trimethylbenzene	2	5388284	0	0.2	1.302067E+07	0			
1,2,4-Trimethylbenzene	2	1.39317E+07	0	0.2	1.302067E+07	0			
Naphthalene	2	65355	0	0.2	1.302067E+07	0			
TPHG C6 - C12	1	4.331803E+08	5.5	0.2	2.065175E+07	0.7627446	82.1	75	125
TPH (GC/FID) Low Fraction	1	3.892205E+08	5.5	0.2	2.065175E+07	0.6853402	87.7	75	125
TPHG C5 - C12	1	4.686117E+08	5.5	0.2	2.065175E+07	0.8251323	86.3	75	125
TPHGAK C6 to C10	1	3.678296E+08	5.5	0.2	2.065175E+07	0.647675	88.6	75	125
TPHG C4 - C12	1	24736	0	0.2	2.065175E+07	0			

Parameter	IS Response	IS Low Limit	IS High Limit	IS RT	IS RT LL	IS RT HL
Fluorobenzene	2.065175E+07	1.04E+07	4.14E+07	8.9		
Fluorobenzene-2	1.302067E+07	0	0	8.9		

Environmental Science Corporation
12065 Lebanon Rd., Mt. Juliet, TN 37122

SSCV Summary Report

Instrument ID	: VOCGC7	Analysis Date	: 09/09/14 1926	ICal Method	: GROAZ
Lab File ID	: 0909_17	Quant Method	: BG07I09N	ICal Protocol	: AZ

Parameter	Col	Resp.	Std. Conc	IS Conc.	IS Resp.	RF	% Rec	%Rec LL	%RecHL
Methyl Tert-Butyl Ether	2	4892687	0	0.2	1.302067E+07	0			
benzene	2	8703686	0	0.2	1.302067E+07	0			
toluene	2	4.252854E+07	0	0.2	1.302067E+07	0			
ethylbenzene	2	8946644	0	0.2	1.302067E+07	0			
m&p-xylene	2	3.456767E+07	0	0.2	1.302067E+07	0			
o-xylene	2	1.257221E+07	0	0.2	1.302067E+07	0			
XYLENES, TOTAL	2	4.713988E+07	0	0.2	1.302067E+07	0			
1,3,5-Trimethylbenzene	2	5388284	0	0.2	1.302067E+07	0			
1,2,4-Trimethylbenzene	2	1.39317E+07	0	0.2	1.302067E+07	0			
Naphthalene	2	65355	0	0.2	1.302067E+07	0			
TPHG C6 - C12	1	4.331803E+08	5.5	0.2	2.065175E+07	0.7627446	82.1	80	120
TPH (GC/FID) Low Fraction	1	3.892205E+08	5.5	0.2	2.065175E+07	0.6853402	87.7	80	120
TPHG C5 - C12	1	4.686117E+08	5.5	0.2	2.065175E+07	0.8251323	86.3	80	120
TPHGAK C6 to C10	1	3.678296E+08	5.5	0.2	2.065175E+07	0.647675	88.6	80	120
TPHG C4 - C12	1	24736	0	0.2	2.065175E+07	0			

Parameter	IS Response	IS Low Limit	IS High Limit	IS RT	IS RT LL	IS RT HL
Fluorobenzene	2.065175E+07	1.04E+07	4.14E+07	8.9		
Fluorobenzene-2	1.302067E+07	0	0	8.9		

Environmental Science Corporation
12065 Lebanon Rd., Mt. Juliet, TN 37122

SSCV Summary Report

Instrument ID	: VOCGC7	Analysis Date	: 09/09/14 1926	ICal Method	: 8015D
Lab File ID	: 0909_17	Quant Method	: BG07I09N	ICal Protocol	: IN

Parameter	Col	Resp.	Std. Conc	IS Conc.	IS Resp.	RF	% Rec	%Rec LL	%RecHL
Methyl Tert-Butyl Ether	2	4892687	0	0.2	1.302067E+07	0			
benzene	2	8703686	0	0.2	1.302067E+07	0			
toluene	2	4.252854E+07	0	0.2	1.302067E+07	0			
ethylbenzene	2	8946644	0	0.2	1.302067E+07	0			
m&p-xylene	2	3.456767E+07	0	0.2	1.302067E+07	0			
o-xylene	2	1.257221E+07	0	0.2	1.302067E+07	0			
XYLENES, TOTAL	2	4.713988E+07	0	0.2	1.302067E+07	0			
1,3,5-Trimethylbenzene	2	5388284	0	0.2	1.302067E+07	0			
1,2,4-Trimethylbenzene	2	1.39317E+07	0	0.2	1.302067E+07	0			
Naphthalene	2	65355	0	0.2	1.302067E+07	0			
TPHG C6 - C12	1	4.331803E+08	5.5	0.2	2.065175E+07	0.7627446	82.1	80	120
TPH (GC/FID) Low Fraction	1	3.892205E+08	5.5	0.2	2.065175E+07	0.6853402	87.7	80	120
TPHG C5 - C12	1	4.686117E+08	5.5	0.2	2.065175E+07	0.8251323	86.3	80	120
TPHGAK C6 to C10	1	3.678296E+08	5.5	0.2	2.065175E+07	0.647675	88.6	80	120
TPHG C4 - C12	1	24736	0	0.2	2.065175E+07	0			

Parameter	IS Response	IS Low Limit	IS High Limit	IS RT	IS RT LL	IS RT HL
Fluorobenzene	2.065175E+07	1.04E+07	4.14E+07	8.9		
Fluorobenzene-2	1.302067E+07	0	0	8.9		

Environmental Science Corporation
12065 Lebanon Rd., Mt. Juliet, TN 37122

SSCV Summary Report

Instrument ID	: VOCGC7	Analysis Date	: 09/09/14 1926	ICal Method	: 8015-8021
Lab File ID	: 0909_17	Quant Method	: BG07I09N	ICal Protocol	: SW846

Parameter	Col	Resp.	Std. Conc	IS Conc.	IS Resp.	RF	% Rec	%Rec LL	%RecHL
Methyl Tert-Butyl Ether	2	4892687	0	0.2	1.302067E+07	0			
benzene	2	8703686	0	0.2	1.302067E+07	0			
toluene	2	4.252854E+07	0	0.2	1.302067E+07	0			
ethylbenzene	2	8946644	0	0.2	1.302067E+07	0			
m&p-xylene	2	3.456767E+07	0	0.2	1.302067E+07	0			
o-xylene	2	1.257221E+07	0	0.2	1.302067E+07	0			
XYLENES, TOTAL	2	4.713988E+07	0	0.2	1.302067E+07	0			
1,3,5-Trimethylbenzene	2	5388284	0	0.2	1.302067E+07	0			
1,2,4-Trimethylbenzene	2	1.39317E+07	0	0.2	1.302067E+07	0			
Naphthalene	2	65355	0	0.2	1.302067E+07	0			
TPHG C6 - C12	1	4.331803E+08	5.5	0.2	2.065175E+07	0.7627446	82.1	80	120
TPH (GC/FID) Low Fraction	1	3.892205E+08	5.5	0.2	2.065175E+07	0.6853402	87.7	80	120
TPHG C5 - C12	1	4.686117E+08	5.5	0.2	2.065175E+07	0.8251323	86.3	80	120
TPHGAK C6 to C10	1	3.678296E+08	5.5	0.2	2.065175E+07	0.647675	88.6	80	120
TPHG C4 - C12	1	24736	0	0.2	2.065175E+07	0			

Parameter	IS Response	IS Low Limit	IS High Limit	IS RT	IS RT LL	IS RT HL
Fluorobenzene	2.065175E+07	1.04E+07	4.14E+07	8.9		
Fluorobenzene-2	1.302067E+07	0	0	8.9		

Quantitation Report (Not Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\090914\0909 17.D\FID1A.CH Vial: 17
Signal #2 : C:\HPCHEM\1\DATA\090914\0909 17.D\FID2B.CH
Acq On : 9 Sep 2014 7:26 pm Operator: 621
Sample : SSCV GRO 5.5g ppm 14I07117 Inst : VOCGC7
Misc : water ISSURR14C12923 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS3.E
Quant Time: Sep 10 13:45 2014 Quant Results File: BG07I09N.RES

Quant Method : C:\HPCHEM\1\METHODS\BG07I09N.M (Chemstation Integrator)
Title : WIS GRO VOCGC07
Last Update : Wed Sep 10 13:45:13 2014
Response via : Initial Calibration
DataAcq Meth : VOCGC14A.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

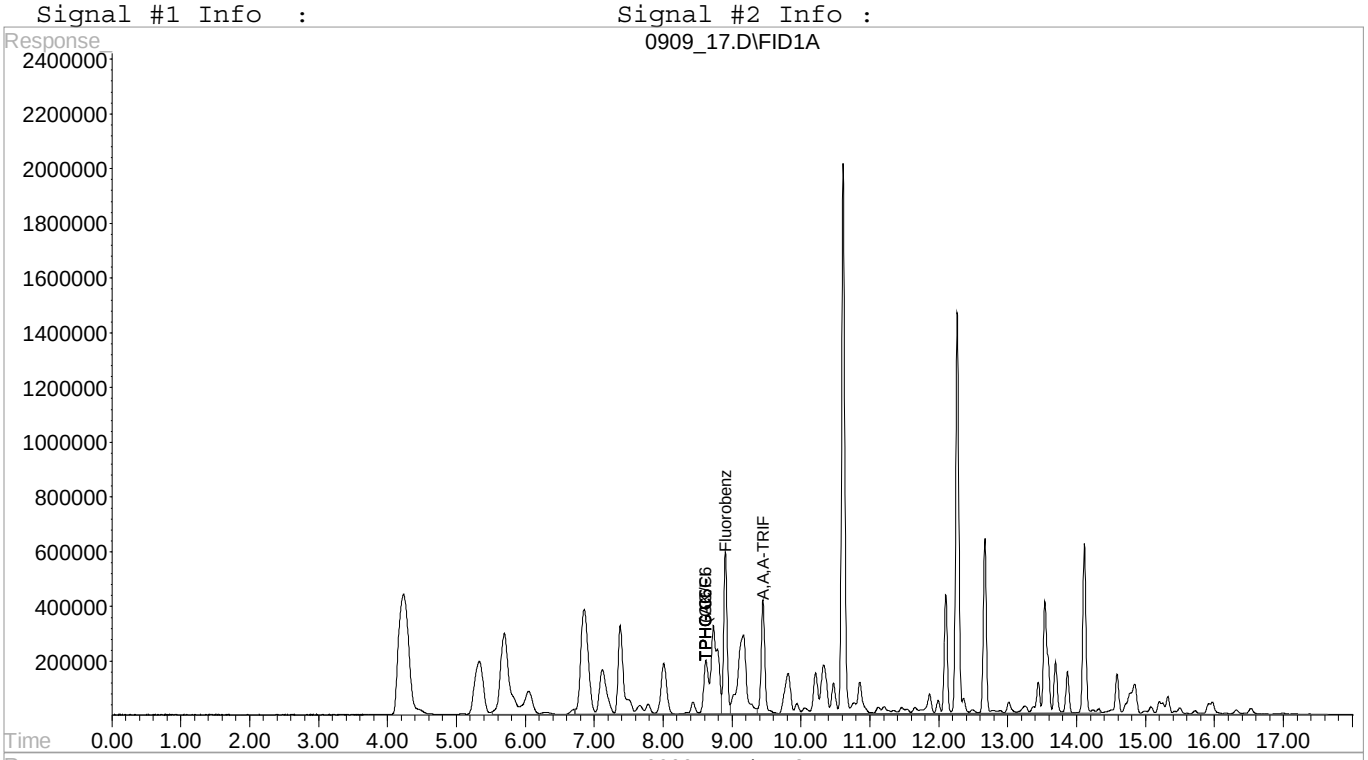
	Compound	R.T.	Response	Conc	Units
	Internal Standards				
1)	I Fluorobenzene #1	8.90	20651752	200.0000000	ppb
9)	I Fluorobenzene #2	8.90	13020674	200.0000000	ppb
	System Monitoring Compounds				
7)	S A,A,A-TRIFLUOROTOLUENE(FID	9.45	16502894	204.6347752	ppb
Spiked Amount	200.000 Range 62 - 128	Recovery = 102.32%			
10)	S A,A,A-TRIFLUOROTOLUENE(PID	9.45	7457203	NoCal	ppb
Spiked Amount	200.000 Range 55 - 122	Recovery = 0.00%#			
	Target Compounds				
2)	H,M TPHG C4 - C12	0.00	24736	NoCal	ppm
3)	H,M TPHG C5 - C12	8.61	468611721	4.7457317	ppm
4)	H,M TPHG C6 - C12	8.61	433180298	4.5150968	ppm
5)	H,M TPHGAK C6 to C10	8.61	367829647	4.8740822	ppm
6)	h,m TPH (GC/FID) Low Fraction	8.61	389220542	4.8253059	ppm
11)	T,M Methyl Tert-Butyl Ether	6.90	4892687	NoCal	ppb
12)	T,M benzene	8.73	8703686	NoCal	ppb
13)	T,M toluene	10.61	42528536	NoCal	ppb
14)	T,M ethylbenzene	12.10	8946644	NoCal	ppb
15)	T,M m&p-xylene	12.27	34567673	NoCal	ppb
16)	T,M o-xylene	12.67	12572210	NoCal	ppb
17)	T,M 1,3,5-Trimethylbenzene	13.69	5388284	NoCal	ppb
18)	T,M 1,2,4-Trimethylbenzene	14.11	13931702	NoCal	ppb
19)	T,M Naphthalene	17.38	65355	NoCal	ppb

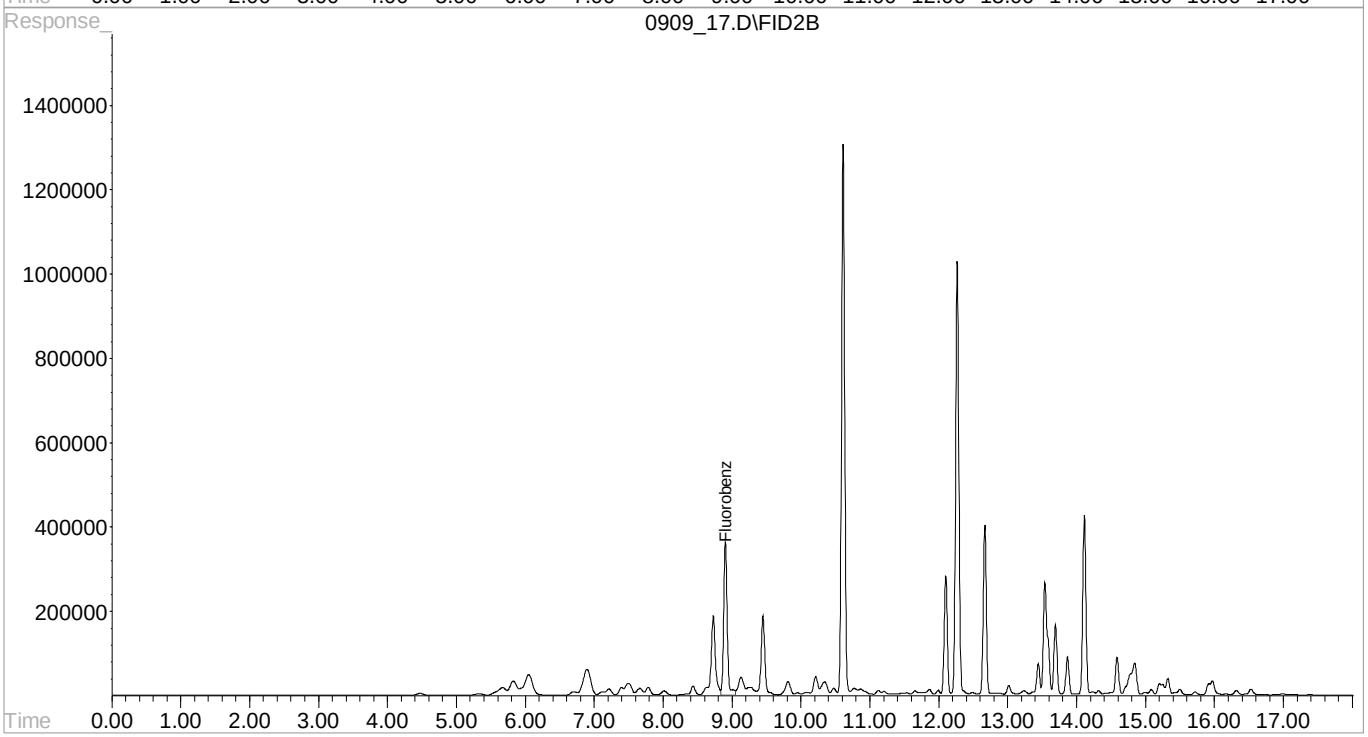
Quantitation Report (Not Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\090914\0909 17.D\FID1A.CH Vial: 17
Signal #2 : C:\HPCHEM\1\DATA\090914\0909 17.D\FID2B.CH
Acq On : 9 Sep 2014 7:26 pm Operator: 621
Sample : SSCV GRO 5.5g ppm 14I07117 Inst : VOCGC7
Misc : water ISSURR14C12923 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS3.E
Quant Time: Sep 10 13:45 2014 Quant Results File: BG07I09N.RES

Quant Method : C:\HPCHEM\1\METHODS\BG07I09N.M (Chemstation Integrator)
Title : WIS GRO VOCGC07
Last Update : Wed Sep 10 13:45:13 2014
Response via : Single Level Calibration
DataAcq Meth : VOCGC14A.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\090914\0909 17.D\FID1A.CH Vial: 17
Signal #2 : C:\HPCHEM\1\DATA\090914\0909 17.D\FID2B.CH
Acq On : 9 Sep 2014 7:26 pm Operator: 621
Sample : SSCV GRO 5.5g ppm 14I07117 Inst : VOCGC7
Misc : water ISSURR14C12923 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS3.E
Quant Time: Sep 10 13:45 2014 Quant Results File: BG07I09N.RES

Quant Method : C:\HPCHEM\1\METHODS\BG07I09N.M (Chemstation Integrator)
Title : WIS GRO VOCGC07
Last Update : Wed Sep 10 13:45:13 2014
Response via : Initial Calibration
DataAcq Meth : VOCGC14A.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

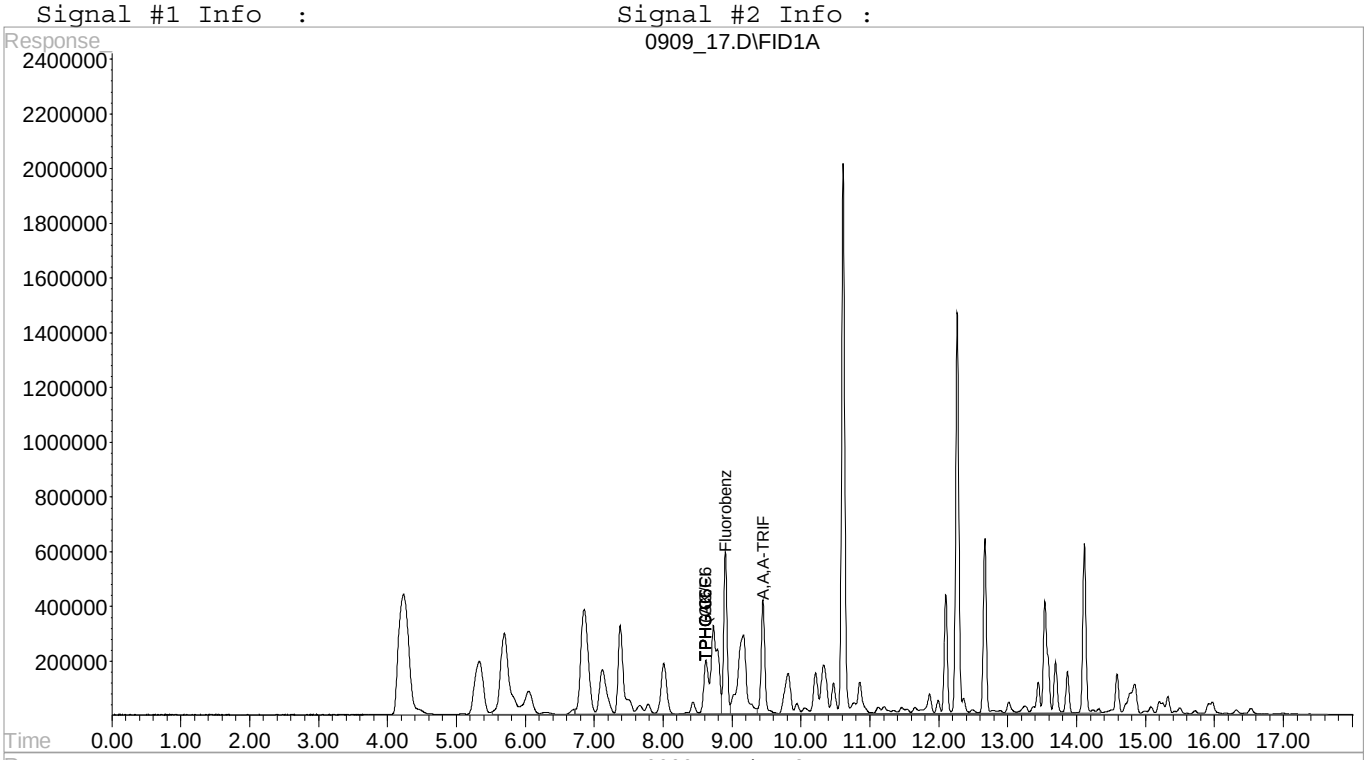
Compound	R.T.	Response	Conc	Units
Internal Standards				
1) I Fluorobenzene #1	8.90	20651752	200.0000000	ppb
9) I Fluorobenzene #2	8.90	13020674	200.0000000	ppb
System Monitoring Compounds				
7) S A,A,A-TRIFLUOROTOLUENE(FID	9.45	16502894	204.6347752	ppb
Spiked Amount 200.000 Range 62 - 128		Recovery = 102.32%		
10) S A,A,A-TRIFLUOROTOLUENE(PID	9.45	7457203	NoCal	ppb
Spiked Amount 200.000 Range 55 - 122		Recovery = 0.00%#		
Target Compounds				
2) H,M TPHG C4 - C12	0.00	24736	NoCal	ppm
3) H,M TPHG C5 - C12	8.61	468611721	4.7457317	ppm
4) H,M TPHG C6 - C12	8.61	433180298	4.5150968	ppm
5) H,M TPHGAK C6 to C10	8.61	367829647	4.8740822	ppm
6) h,m TPH (GC/FID) Low Fraction	8.61	389220542	4.8253059	ppm
11) T,M Methyl Tert-Butyl Ether	6.90	4892687	NoCal	ppb
12) T,M benzene	8.73	8703686	NoCal	ppb
13) T,M toluene	10.61	42528536	NoCal	ppb
14) T,M ethylbenzene	12.10	8946644	NoCal	ppb
15) T,M m&p-xylene	12.27	34567673	NoCal	ppb
16) T,M o-xylene	12.67	12572210	NoCal	ppb
17) T,M 1,3,5-Trimethylbenzene	13.69	5388284	NoCal	ppb
18) T,M 1,2,4-Trimethylbenzene	14.11	13931702	NoCal	ppb
19) T,M Naphthalene	17.38	65355	NoCal	ppb

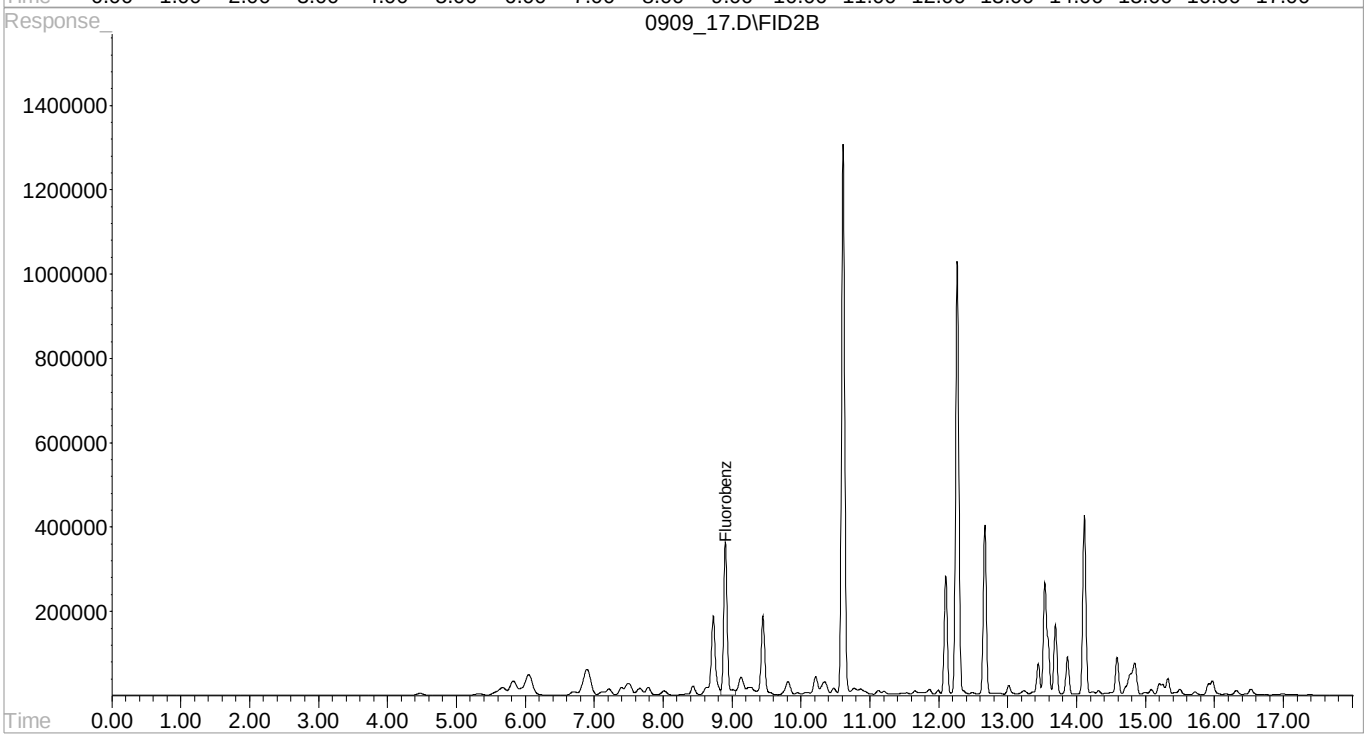
Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\090914\0909 17.D\FID1A.CH Vial: 17
Signal #2 : C:\HPCHEM\1\DATA\090914\0909 17.D\FID2B.CH
Acq On : 9 Sep 2014 7:26 pm Operator: 621
Sample : SSCV GRO 5.5g ppm 14I07117 Inst : VOCGC7
Misc : water ISSURR14C12923 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS3.E
Quant Time: Sep 10 13:45 2014 Quant Results File: BG07I09N.RES

Quant Method : C:\HPCHEM\1\METHODS\BG07I09N.M (Chemstation Integrator)
Title : WIS GRO VOCGC07
Last Update : Wed Sep 10 13:45:13 2014
Response via : Single Level Calibration
DataAcq Meth : VOCGC14A.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Quantitation Report (Not Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\090914\0909 09.D\FID1A.CH Vial: 9
Signal #2 : C:\HPCHEM\1\DATA\090914\0909 09.D\FID2B.CH
Acq On : 9 Sep 2014 4:05 pm Operator: 621
Sample : STD GRO .055 ppm 14I07115 Inst : VOCGC7
Misc : water ISSURR14C12923 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS3.E
Quant Time: Sep 10 13:43 2014 Quant Results File: BG07I09N.RES

Quant Method : C:\HPCHEM\1\METHODS\BG07I09N.M (Chemstation Integrator)
Title : WIS GRO VOCGC07
Last Update : Wed Sep 10 13:42:46 2014
Response via : Initial Calibration
DataAcq Meth : VOCGC14A.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

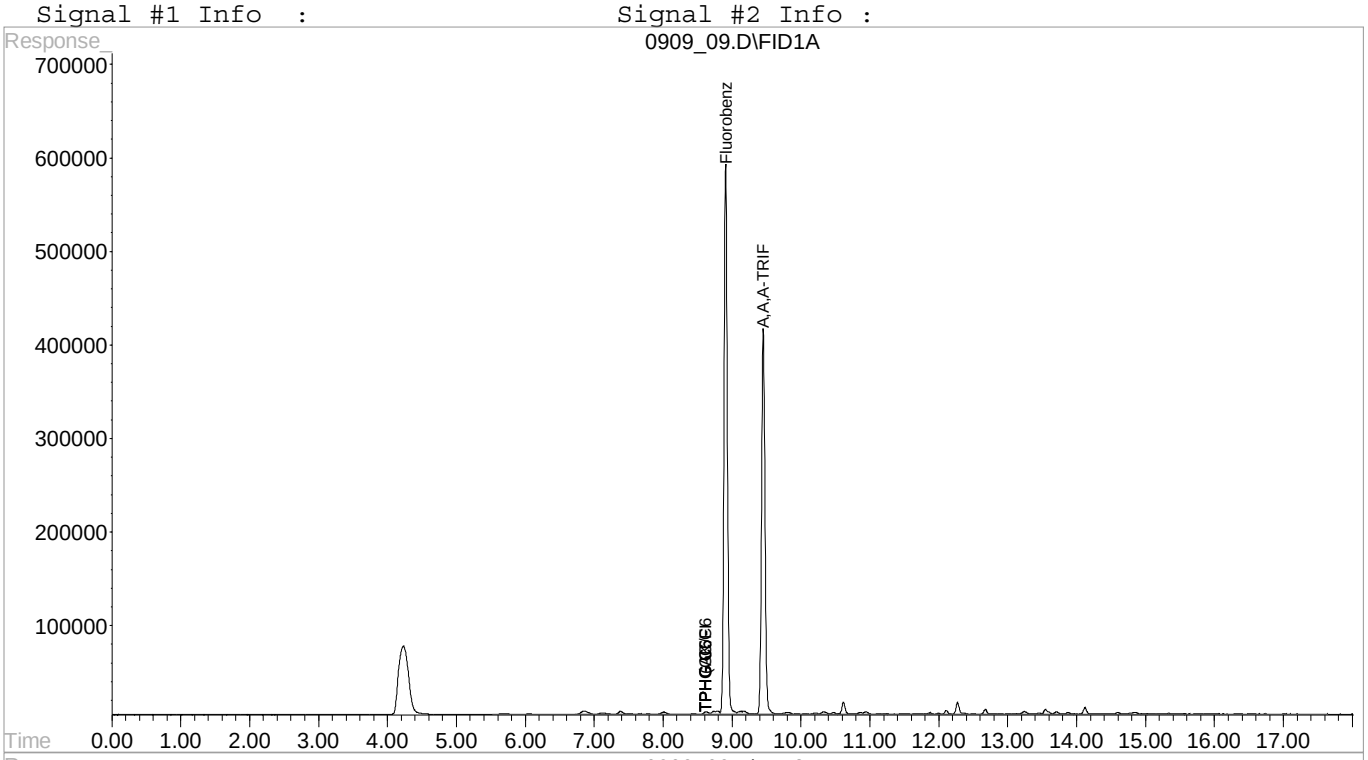
	Compound	R.T.	Response	Conc	Units
	Internal Standards				
1)	I Fluorobenzene #1	8.91	19691101	200.0000000	ppb
9)	I Fluorobenzene #2	8.91	12285196	200.0000000	ppb
	System Monitoring Compounds				
7)	S A,A,A-TRIFLUOROTOLUENE(FID	9.45	14554683	179.6188612	ppb
Spiked Amount	200.000 Range 62 - 128	Recovery =	89.81%		
10)	S A,A,A-TRIFLUOROTOLUENE(PID	9.45	6596296	NoCal	ppb
Spiked Amount	200.000 Range 55 - 122	Recovery =	0.00%#		
	Target Compounds				
2)	H,M TPHG C4 - C12	0.00	19532	NoCal	ppm
3)	H,M TPHG C5 - C12	8.61	5927528	0.0695605	ppm
4)	H,M TPHG C6 - C12	8.61	5719407	0.0689476	ppm
5)	H,M TPHGAK C6 to C10	8.61	4604249	0.0707559	ppm
6)	h,m TPH (GC/FID) Low Fraction	8.61	4918471	0.0706796	ppm
11)	T,M Methyl Tert-Butyl Ether	6.90	68943	NoCal	ppb
12)	T,M benzene	8.73	65727	NoCal	ppb
13)	T,M toluene	10.62	312850	NoCal	ppb
14)	T,M ethylbenzene	12.11	85102	NoCal	ppb
15)	T,M m&p-xylene	12.27	343149	NoCal	ppb
16)	T,M o-xylene	12.68	114194	NoCal	ppb
17)	T,M 1,3,5-Trimethylbenzene	13.70	73904	NoCal	ppb
18)	T,M 1,2,4-Trimethylbenzene	14.12	167724	NoCal	ppb
19)	T,M Naphthalene	0.00	0	N.D.	ppb

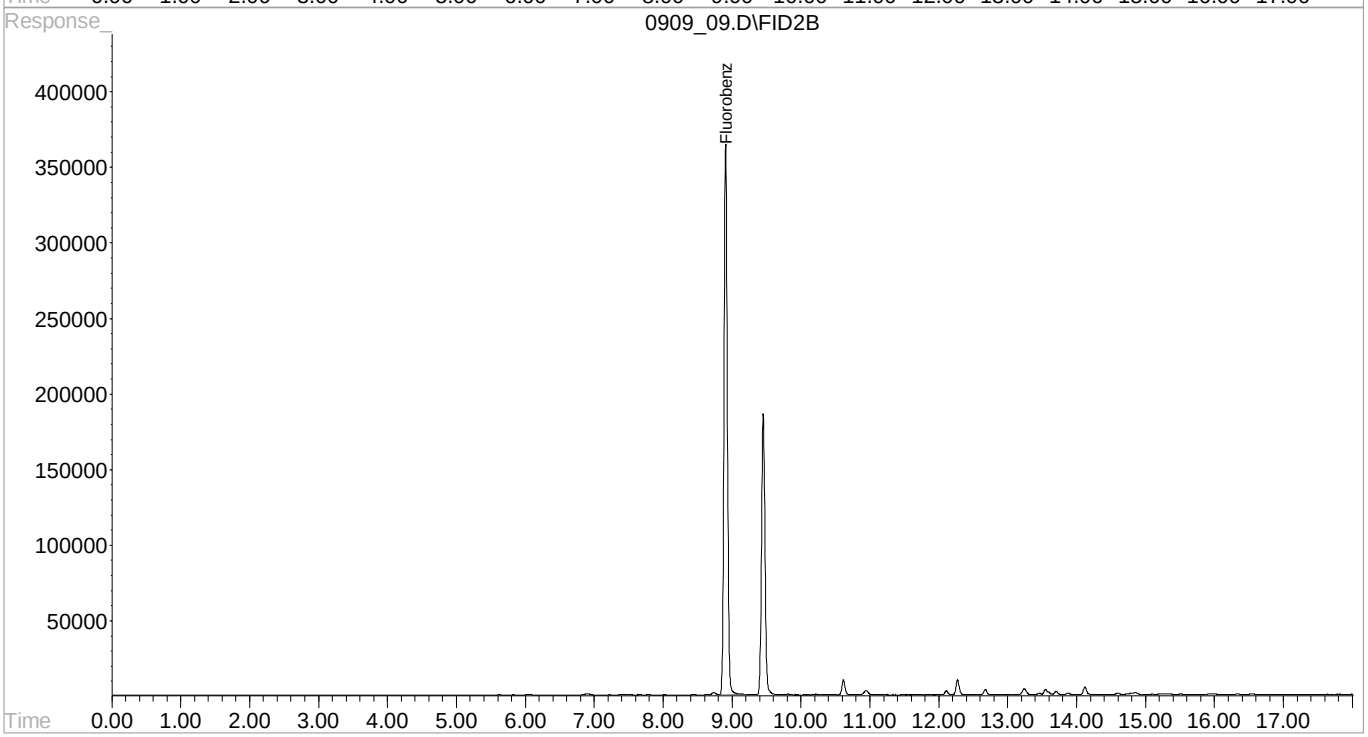
Quantitation Report (Not Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\090914\0909 09.D\FID1A.CH Vial: 9
Signal #2 : C:\HPCHEM\1\DATA\090914\0909 09.D\FID2B.CH
Acq On : 9 Sep 2014 4:05 pm Operator: 621
Sample : STD GRO .055 ppm 14I07115 Inst : VOCGC7
Misc : water ISSURR14C12923 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS3.E
Quant Time: Sep 10 13:43 2014 Quant Results File: BG07I09N.RES

Quant Method : C:\HPCHEM\1\METHODS\BG07I09N.M (Chemstation Integrator)
Title : WIS GRO VOCGC07
Last Update : Wed Sep 10 13:42:46 2014
Response via : Single Level Calibration
DataAcq Meth : VOCGC14A.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\090914\0909 09.D\FID1A.CH Vial: 9
Signal #2 : C:\HPCHEM\1\DATA\090914\0909 09.D\FID2B.CH
Acq On : 9 Sep 2014 4:05 pm Operator: 621
Sample : STD GRO .055 ppm 14I07115 Inst : VOCGC7
Misc : water ISSURR14C12923 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS3.E
Quant Time: Sep 10 13:43 2014 Quant Results File: BG07I09N.RES

Quant Method : C:\HPCHEM\1\METHODS\BG07I09N.M (Chemstation Integrator)
Title : WIS GRO VOCGC07
Last Update : Wed Sep 10 13:42:46 2014
Response via : Initial Calibration
DataAcq Meth : VOCGC14A.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

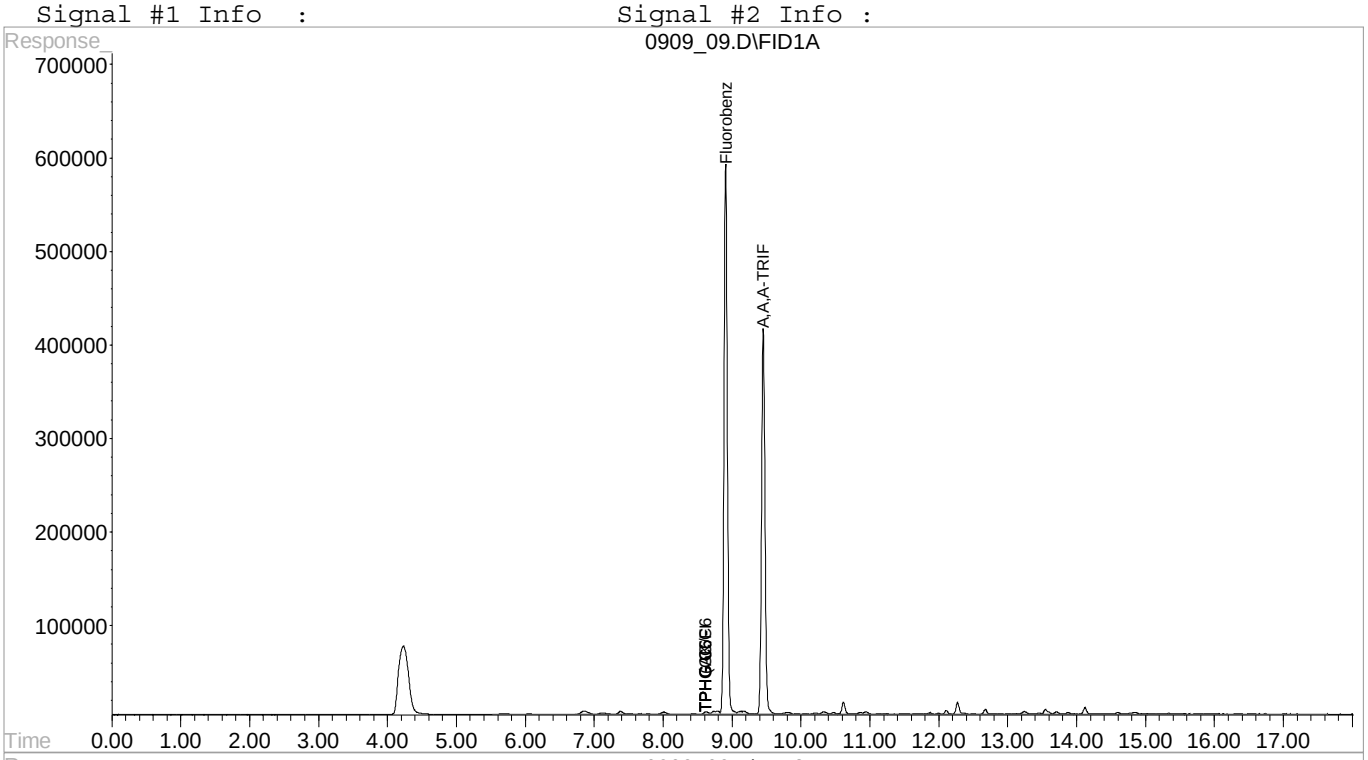
Compound	R.T.	Response	Conc	Units
Internal Standards				
1) I Fluorobenzene #1	8.91	19691101	200.0000000	ppb
9) I Fluorobenzene #2	0.00	0	N.D.	ppb d
System Monitoring Compounds				
7) S A,A,A-TRIFLUOROTOLUENE(FID	9.45	14554683	179.6188612	ppb
Spiked Amount 200.000 Range 62 - 128		Recovery =	89.81%	
10) S A,A,A-TRIFLUOROTOLUENE(PID	0.00	0	N.D.	ppb d
Spiked Amount 200.000 Range 55 - 122		Recovery =	0.00%#	
Target Compounds				
2) H,M TPHG C4 - C12	0.00	19532	NoCal	ppm
3) H,M TPHG C5 - C12	8.61	5927528	0.0695605	ppm
4) H,M TPHG C6 - C12	8.61	5719407	0.0689476	ppm
5) H,M TPHGAK C6 to C10	8.61	4604249	0.0707559	ppm
6) h,m TPH (GC/FID) Low Fraction	8.61	4918471	0.0706796	ppm
11) T,M Methyl Tert-Butyl Ether	0.00	0	N.D.	ppb d
12) T,M benzene	0.00	0	N.D.	ppb d
13) T,M toluene	0.00	0	N.D.	ppb d
14) T,M ethylbenzene	0.00	0	N.D.	ppb d
15) T,M m&p-xylene	0.00	0	N.D.	ppb d
16) T,M o-xylene	0.00	0	N.D.	ppb d
17) T,M 1,3,5-Trimethylbenzene	0.00	0	N.D.	ppb d
18) T,M 1,2,4-Trimethylbenzene	0.00	0	N.D.	ppb d
19) T,M Naphthalene	0.00	0	N.D.	ppb d

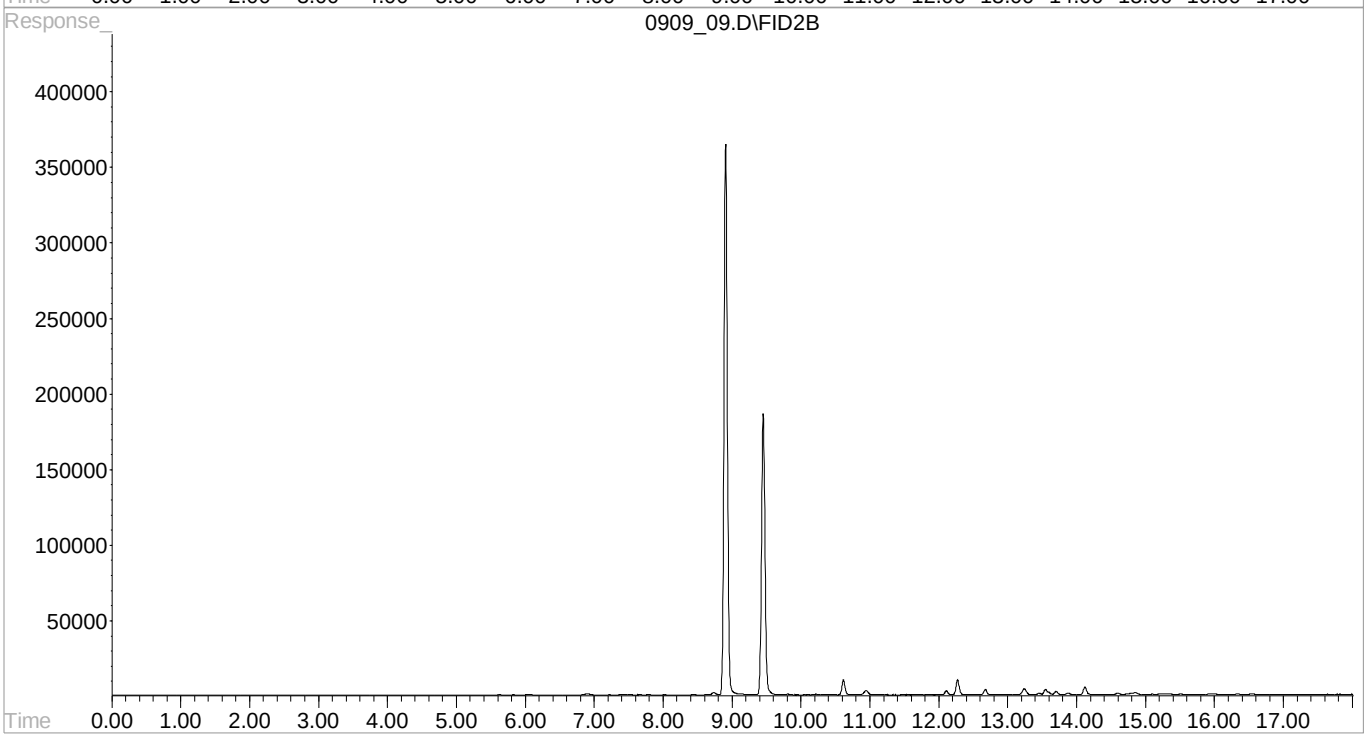
Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\090914\0909 09.D\FID1A.CH Vial: 9
Signal #2 : C:\HPCHEM\1\DATA\090914\0909 09.D\FID2B.CH
Acq On : 9 Sep 2014 4:05 pm Operator: 621
Sample : STD GRO .055 ppm 14I07115 Inst : VOCGC7
Misc : water ISSURR14C12923 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS3.E
Quant Time: Sep 10 13:43 2014 Quant Results File: BG07I09N.RES

Quant Method : C:\HPCHEM\1\METHODS\BG07I09N.M (Chemstation Integrator)
Title : WIS GRO VOCGC07
Last Update : Wed Sep 10 13:42:46 2014
Response via : Single Level Calibration
DataAcq Meth : VOCGC14A.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Quantitation Report (Not Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\090914\0909 10.D\FID1A.CH Vial: 10
Signal #2 : C:\HPCHEM\1\DATA\090914\0909 10.D\FID2B.CH
Acq On : 9 Sep 2014 4:30 pm Operator: 621
Sample : STD GRO .11 ppm 14I07115 Inst : VOCGC7
Misc : water ISSURR14C12923 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS3.E
Quant Time: Sep 10 13:43 2014 Quant Results File: BG07I09N.RES

Quant Method : C:\HPCHEM\1\METHODS\BG07I09N.M (Chemstation Integrator)
Title : WIS GRO VOCGC07
Last Update : Wed Sep 10 13:42:46 2014
Response via : Initial Calibration
DataAcq Meth : VOCGC14A.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

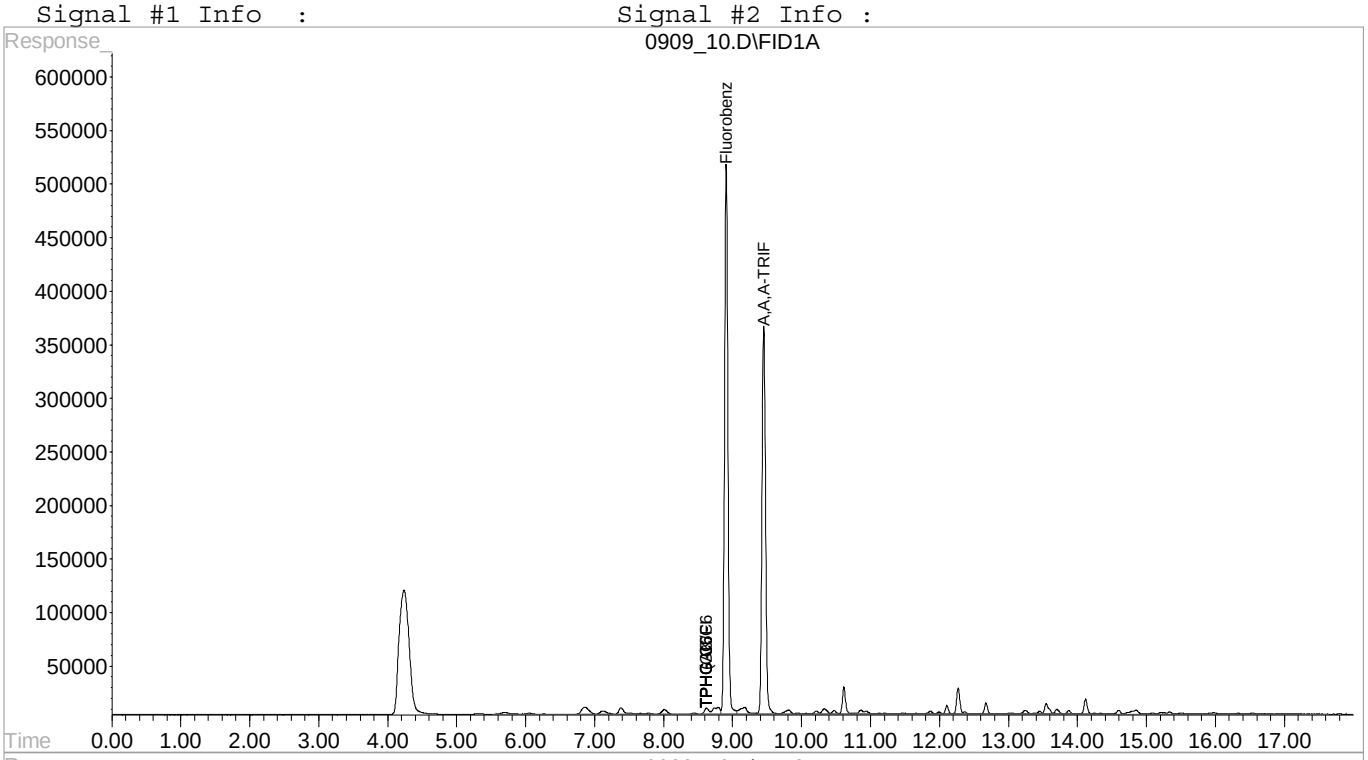
Compound	R.T.	Response	Conc	Units
Internal Standards				
1) I Fluorobenzene #1	8.91	17331539	200.0000000	ppb
9) I Fluorobenzene #2	8.91	10810428	200.0000000	ppb
System Monitoring Compounds				
7) S A,A,A-TRIFLUOROTOLUENE(FID	9.45	12869278	180.4414253	ppb
Spiked Amount 200.000 Range 62 - 128		Recovery = 90.22%		
10) S A,A,A-TRIFLUOROTOLUENE(PID	9.45	5875285	NoCal	ppb
Spiked Amount 200.000 Range 55 - 122		Recovery = 0.00%#		
Target Compounds				
2) H,M TPHG C4 - C12	0.00	21953	NoCal	ppm
3) H,M TPHG C5 - C12	8.61	10559095	0.1407826	ppm
4) H,M TPHG C6 - C12	8.61	10243185	0.1402930	ppm
5) H,M TPHGAK C6 to C10	8.61	7978159	0.1392962	ppm
6) h,m TPH (GC/FID) Low Fraction	8.61	8522165	0.1391384	ppm
11) T,M Methyl Tert-Butyl Ether	6.90	119936	NoCal	ppb
12) T,M benzene	8.73	137238	NoCal	ppb
13) T,M toluene	10.62	609704	NoCal	ppb
14) T,M ethylbenzene	12.11	161331	NoCal	ppb
15) T,M m&p-xylene	12.27	646286	NoCal	ppb
16) T,M o-xylene	12.67	218279	NoCal	ppb
17) T,M 1,3,5-Trimethylbenzene	13.70	133896	NoCal	ppb
18) T,M 1,2,4-Trimethylbenzene	14.12	330372	NoCal	ppb
19) T,M Naphthalene	0.00	0	N.D.	ppb

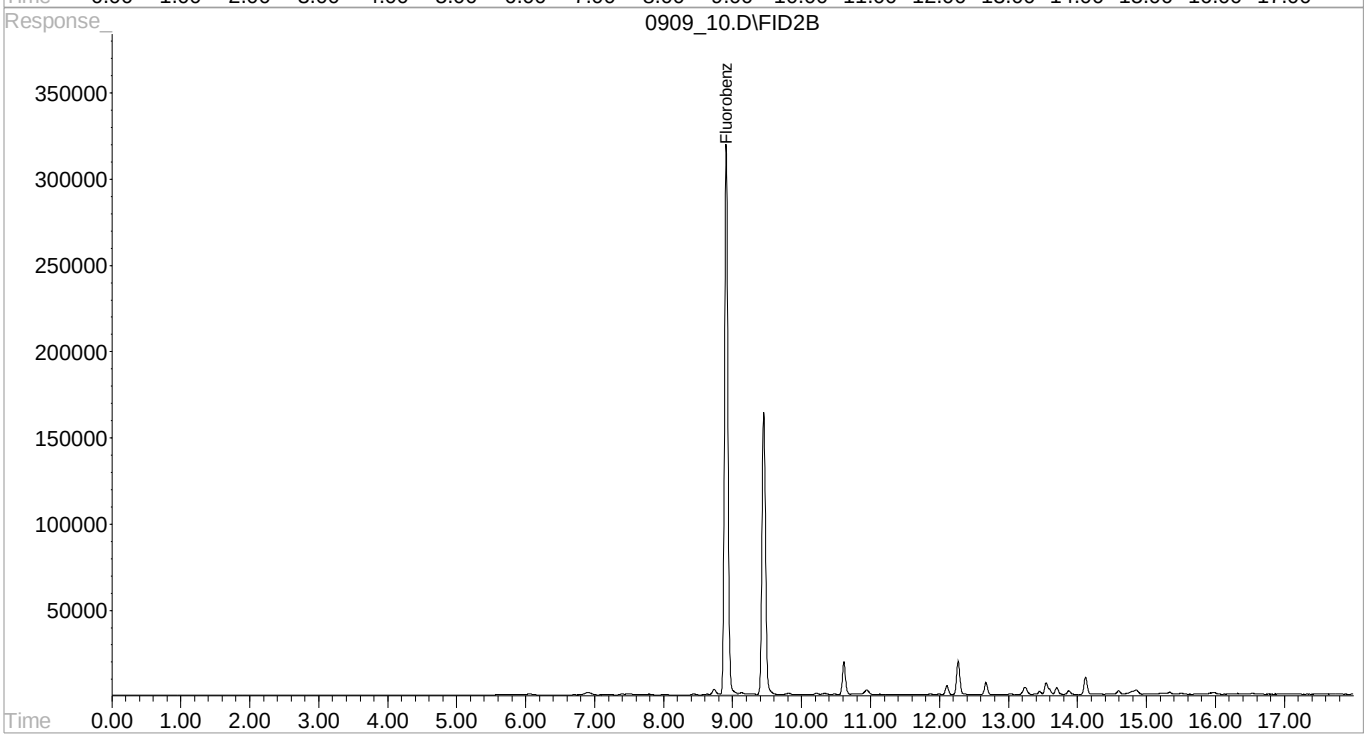
Quantitation Report (Not Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\090914\0909 10.D\FID1A.CH Vial: 10
Signal #2 : C:\HPCHEM\1\DATA\090914\0909 10.D\FID2B.CH
Acq On : 9 Sep 2014 4:30 pm Operator: 621
Sample : STD GRO .11 ppm 14I07115 Inst : VOCGC7
Misc : water ISSURR14C12923 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS3.E
Quant Time: Sep 10 13:43 2014 Quant Results File: BG07I09N.RES

Quant Method : C:\HPCHEM\1\METHODS\BG07I09N.M (Chemstation Integrator)
Title : WIS GRO VOCGC07
Last Update : Wed Sep 10 13:42:46 2014
Response via : Single Level Calibration
DataAcq Meth : VOCGC14A.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\090914\0909 10.D\FID1A.CH Vial: 10
Signal #2 : C:\HPCHEM\1\DATA\090914\0909 10.D\FID2B.CH
Acq On : 9 Sep 2014 4:30 pm Operator: 621
Sample : STD GRO .11 ppm 14I07115 Inst : VOCGC7
Misc : water ISSURR14C12923 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS3.E
Quant Time: Sep 10 13:43 2014 Quant Results File: BG07I09N.RES

Quant Method : C:\HPCHEM\1\METHODS\BG07I09N.M (Chemstation Integrator)
Title : WIS GRO VOCGC07
Last Update : Wed Sep 10 13:42:46 2014
Response via : Initial Calibration
DataAcq Meth : VOCGC14A.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

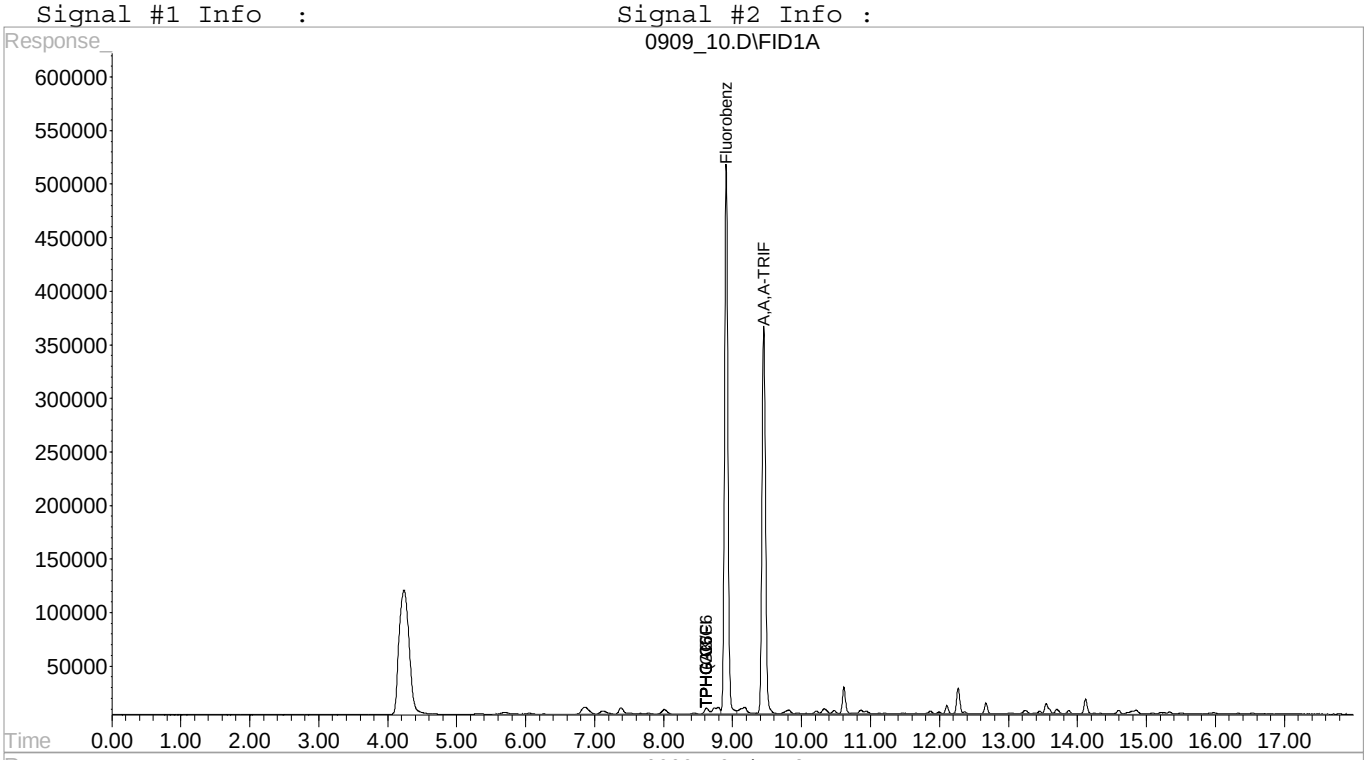
	Compound	R.T.	Response	Conc	Units	
	Internal Standards					
1) I	Fluorobenzene #1	8.91	17331539	200.0000000	ppb	
9) I	Fluorobenzene #2	0.00	0	N.D.	ppb	d
	System Monitoring Compounds					
7) S	A,A,A-TRIFLUOROTOLUENE(FID	9.45	12869278	180.4414253	ppb	
Spiked Amount	200.000 Range 62 - 128		Recovery	= 90.22%		
10) S	A,A,A-TRIFLUOROTOLUENE(PID	0.00	0	N.D.	ppb	d
Spiked Amount	200.000 Range 55 - 122		Recovery	= 0.00%#		
	Target Compounds					
2) H,M	TPHG C4 - C12	0.00	21953	NoCal	ppm	
3) H,M	TPHG C5 - C12	8.61	10559095	0.1407826	ppm	
4) H,M	TPHG C6 - C12	8.61	10243185	0.1402930	ppm	
5) H,M	TPHGAK C6 to C10	8.61	7978159	0.1392962	ppm	
6) h,m	TPH (GC/FID) Low Fraction	8.61	8522165	0.1391384	ppm	
11) T,M	Methyl Tert-Butyl Ether	0.00	0	N.D.	ppb	d
12) T,M	benzene	0.00	0	N.D.	ppb	d
13) T,M	toluene	0.00	0	N.D.	ppb	d
14) T,M	ethylbenzene	0.00	0	N.D.	ppb	d
15) T,M	m&p-xylene	0.00	0	N.D.	ppb	d
16) T,M	o-xylene	0.00	0	N.D.	ppb	d
17) T,M	1,3,5-Trimethylbenzene	0.00	0	N.D.	ppb	d
18) T,M	1,2,4-Trimethylbenzene	0.00	0	N.D.	ppb	d
19) T,M	Naphthalene	0.00	0	N.D.	ppb	d

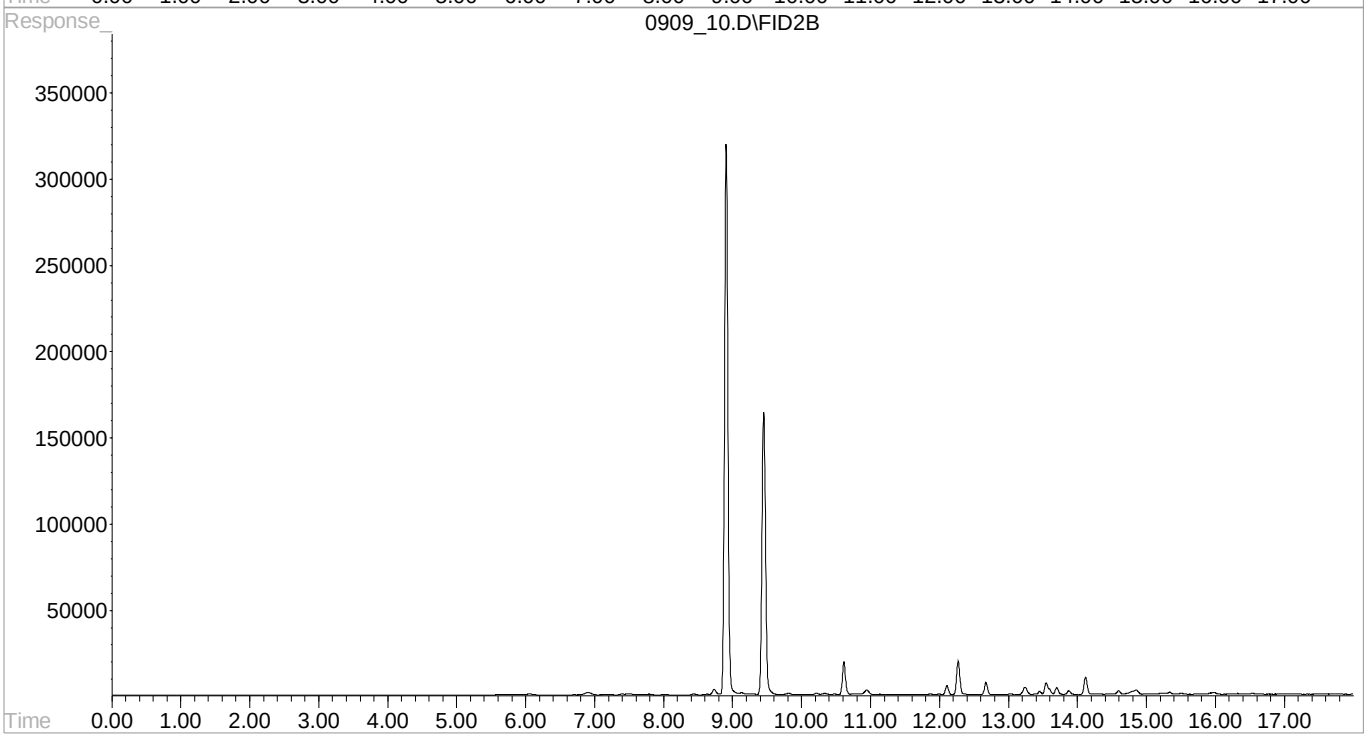
Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\090914\0909 10.D\FID1A.CH Vial: 10
Signal #2 : C:\HPCHEM\1\DATA\090914\0909 10.D\FID2B.CH
Acq On : 9 Sep 2014 4:30 pm Operator: 621
Sample : STD GRO .11 ppm 14I07115 Inst : VOCGC7
Misc : water ISSURR14C12923 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS3.E
Quant Time: Sep 10 13:43 2014 Quant Results File: BG07I09N.RES

Quant Method : C:\HPCHEM\1\METHODS\BG07I09N.M (Chemstation Integrator)
Title : WIS GRO VOCGC07
Last Update : Wed Sep 10 13:42:46 2014
Response via : Single Level Calibration
DataAcq Meth : VOCGC14A.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Quantitation Report (Not Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\090914\0909 11.D\FID1A.CH Vial: 11
Signal #2 : C:\HPCHEM\1\DATA\090914\0909 11.D\FID2B.CH
Acq On : 9 Sep 2014 4:56 pm Operator: 621
Sample : STD GRO .55 ppm 14I07115 Inst : VOCGC7
Misc : water ISSURR14C12923 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS3.E
Quant Time: Sep 10 13:43 2014 Quant Results File: BG07I09N.RES

Quant Method : C:\HPCHEM\1\METHODS\BG07I09N.M (Chemstation Integrator)
Title : WIS GRO VOCGC07
Last Update : Wed Sep 10 13:42:46 2014
Response via : Initial Calibration
DataAcq Meth : VOCGC14A.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

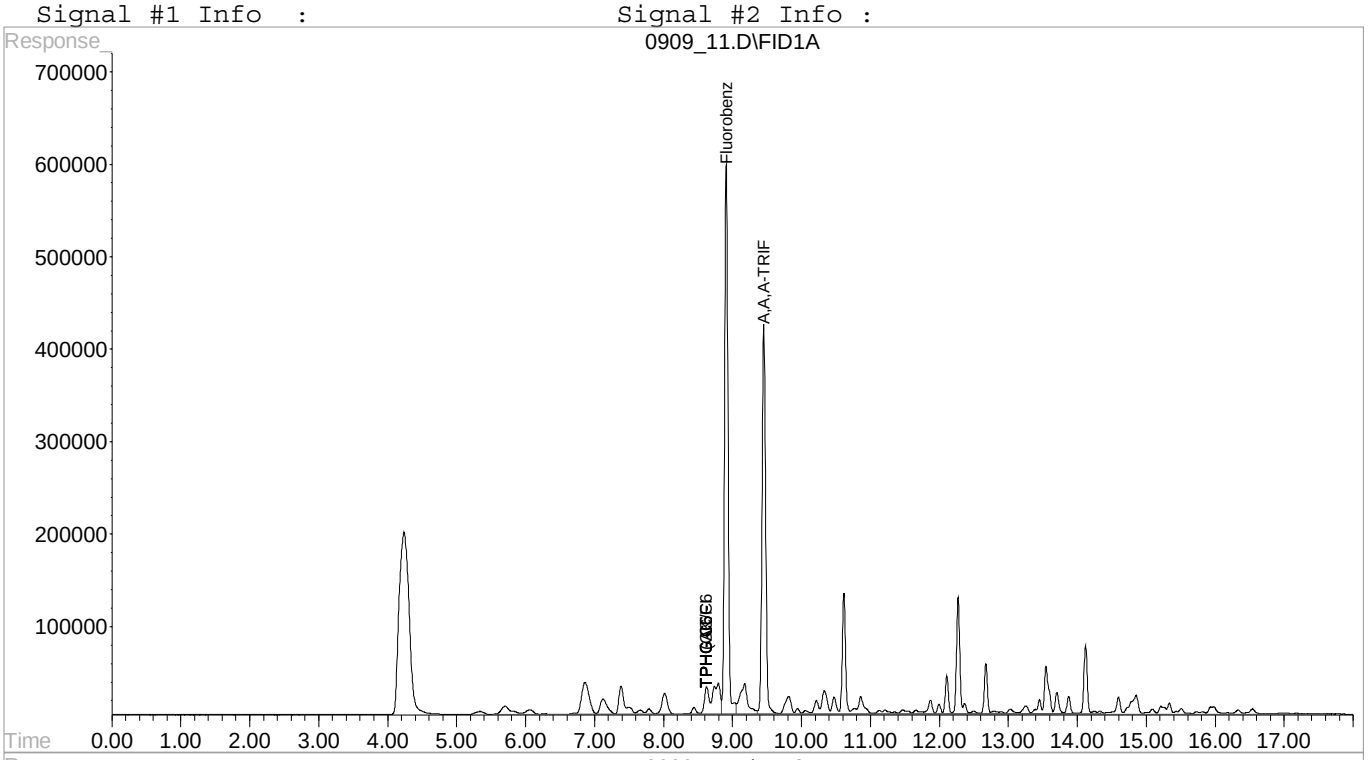
Compound	R.T.	Response	Conc	Units
Internal Standards				
1) I Fluorobenzene #1	8.91	20462932	200.0000000	ppb
9) I Fluorobenzene #2	8.91	12578118	200.0000000	ppb
System Monitoring Compounds				
7) S A,A,A-TRIFLUOROTOLUENE(FID	9.46	15182736	180.3023316	ppb
Spiked Amount 200.000 Range 62 - 128		Recovery = 90.15%		
10) S A,A,A-TRIFLUOROTOLUENE(PID	9.46	6919517	NoCal	ppb
Spiked Amount 200.000 Range 55 - 122		Recovery = 0.00%#		
Target Compounds				
2) H,M TPHG C4 - C12	0.00	22640	NoCal	ppm
3) H,M TPHG C5 - C12	8.61	51145831	0.5775661	ppm
4) H,M TPHG C6 - C12	8.61	49799038	0.5776852	ppm
5) H,M TPHGAK C6 to C10	8.61	39017949	0.5769925	ppm
6) h,m TPH (GC/FID) Low Fraction	8.61	41695738	0.5765779	ppm
11) T,M Methyl Tert-Butyl Ether	6.90	578168	NoCal	ppb
12) T,M benzene	8.74	729580	NoCal	ppb
13) T,M toluene	10.62	3100743	NoCal	ppb
14) T,M ethylbenzene	12.11	874442	NoCal	ppb
15) T,M m&p-xylene	12.27	3324206	NoCal	ppb
16) T,M o-xylene	12.67	1141668	NoCal	ppb
17) T,M 1,3,5-Trimethylbenzene	13.70	686617	NoCal	ppb
18) T,M 1,2,4-Trimethylbenzene	14.12	1752731	NoCal	ppb
19) T,M Naphthalene	0.00	0	N.D.	ppb

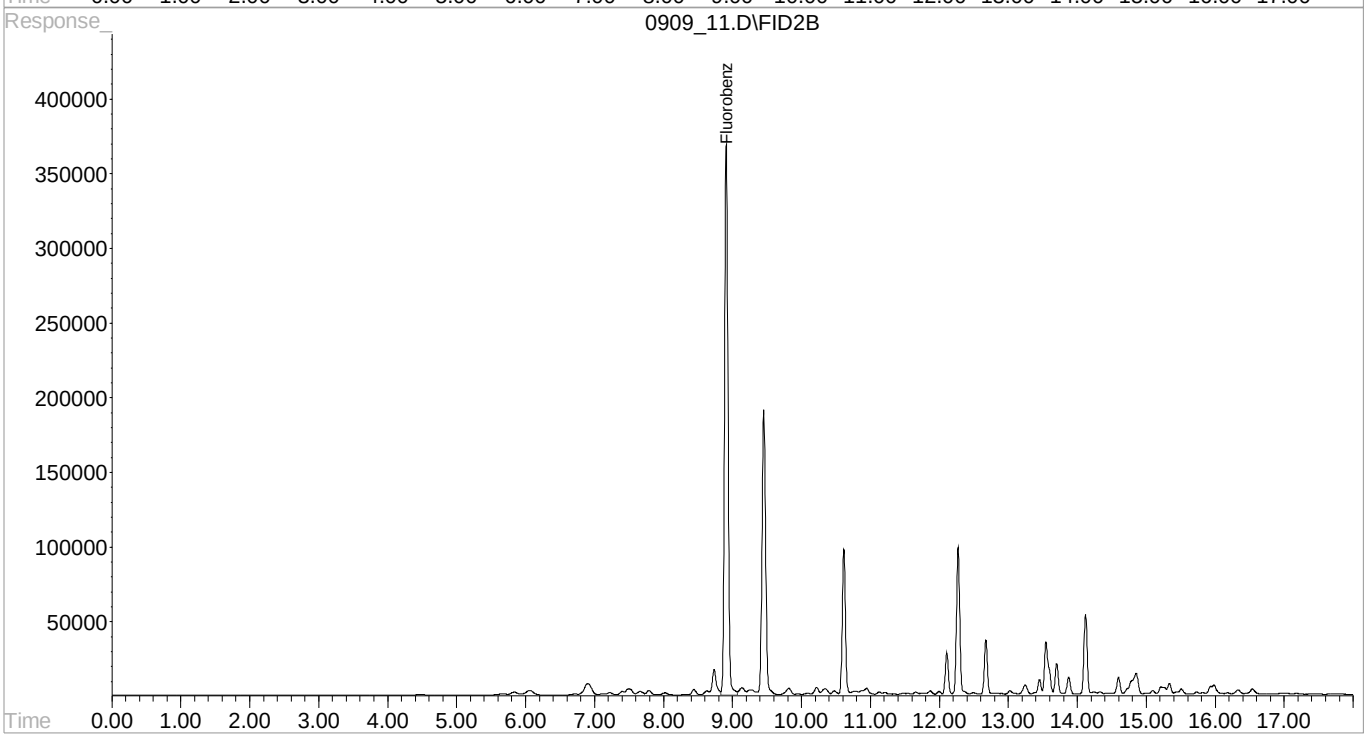
Quantitation Report (Not Reviewed)

```
Signal #1 : C:\HPCHEM\1\DATA\090914\0909 11.D\FID1A.CH   Vial: 11
Signal #2 : C:\HPCHEM\1\DATA\090914\0909 11.D\FID2B.CH
Acq On    :  9 Sep 2014   4:56 pm                    Operator: 621
Sample    : STD GRO .55 ppm 14I07115                 Inst    : VOCGC7
Misc      : water ISSURR14C12923                     Multiplr: 1.00
IntFile Signal #1: EVENTS.E     IntFile Signal #2: EVENTS3.E
Quant Time: Sep 10 13:43 2014  Quant Results File: BG07I09N.RES

Quant Method : C:\HPCHEM\1\METHODS\BG07I09N.M (Chemstation Integrator)
Title        : WIS GRO VOCGC07
Last Update  : Wed Sep 10 13:42:46 2014
Response via : Single Level Calibration
DataAcq Meth : VOCGC14A.M

Volume Inj.     :
Signal #1 Phase :                    Signal #2 Phase:
Signal #1 Info  :                    Signal #2 Info :
```





Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\090914\0909 11.D\FID1A.CH Vial: 11
Signal #2 : C:\HPCHEM\1\DATA\090914\0909 11.D\FID2B.CH
Acq On : 9 Sep 2014 4:56 pm Operator: 621
Sample : STD GRO .55 ppm 14I07115 Inst : VOCGC7
Misc : water ISSURR14C12923 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS3.E
Quant Time: Sep 10 13:44 2014 Quant Results File: BG07I09N.RES

Quant Method : C:\HPCHEM\1\METHODS\BG07I09N.M (Chemstation Integrator)
Title : WIS GRO VOCGC07
Last Update : Wed Sep 10 13:42:46 2014
Response via : Initial Calibration
DataAcq Meth : VOCGC14A.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

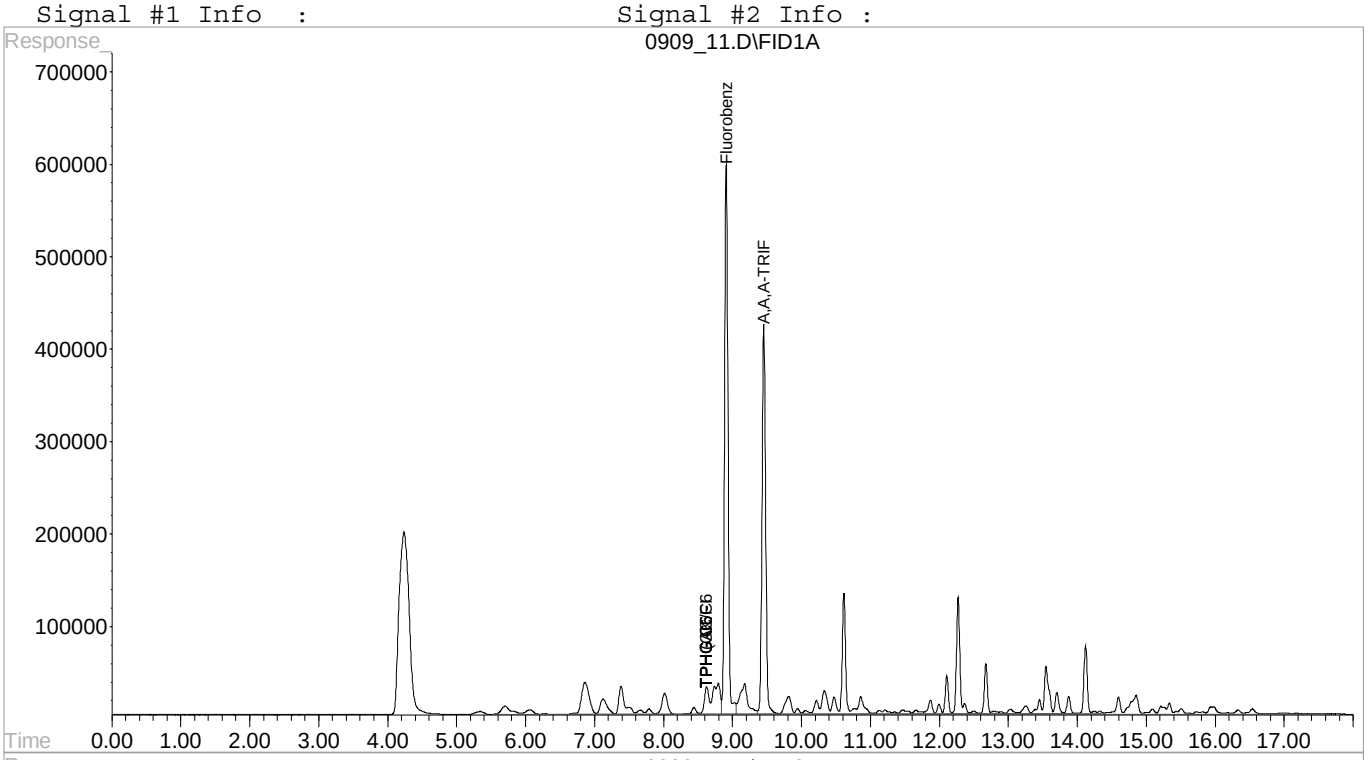
Compound	R.T.	Response	Conc	Units
Internal Standards				
1) I Fluorobenzene #1	8.91	20462932	200.0000000	ppb
9) I Fluorobenzene #2	0.00	0	N.D.	ppb d
System Monitoring Compounds				
7) S A,A,A-TRIFLUOROTOLUENE(FID	9.46	15182736	180.3023316	ppb
Spiked Amount 200.000 Range 62 - 128		Recovery =	90.15%	
10) S A,A,A-TRIFLUOROTOLUENE(PID	0.00	0	N.D.	ppb d
Spiked Amount 200.000 Range 55 - 122		Recovery =	0.00%#	
Target Compounds				
2) H,M TPHG C4 - C12	0.00	22640	NoCal	ppm
3) H,M TPHG C5 - C12	8.61	51145831	0.5775661	ppm
4) H,M TPHG C6 - C12	8.61	49799038	0.5776852	ppm
5) H,M TPHGAK C6 to C10	8.61	39017949	0.5769925	ppm
6) h,m TPH (GC/FID) Low Fraction	8.61	41695738	0.5765779	ppm
11) T,M Methyl Tert-Butyl Ether	0.00	0	N.D.	ppb d
12) T,M benzene	0.00	0	N.D.	ppb d
13) T,M toluene	0.00	0	N.D.	ppb d
14) T,M ethylbenzene	0.00	0	N.D.	ppb d
15) T,M m&p-xylene	0.00	0	N.D.	ppb d
16) T,M o-xylene	0.00	0	N.D.	ppb d
17) T,M 1,3,5-Trimethylbenzene	0.00	0	N.D.	ppb d
18) T,M 1,2,4-Trimethylbenzene	0.00	0	N.D.	ppb d
19) T,M Naphthalene	0.00	0	N.D.	ppb d

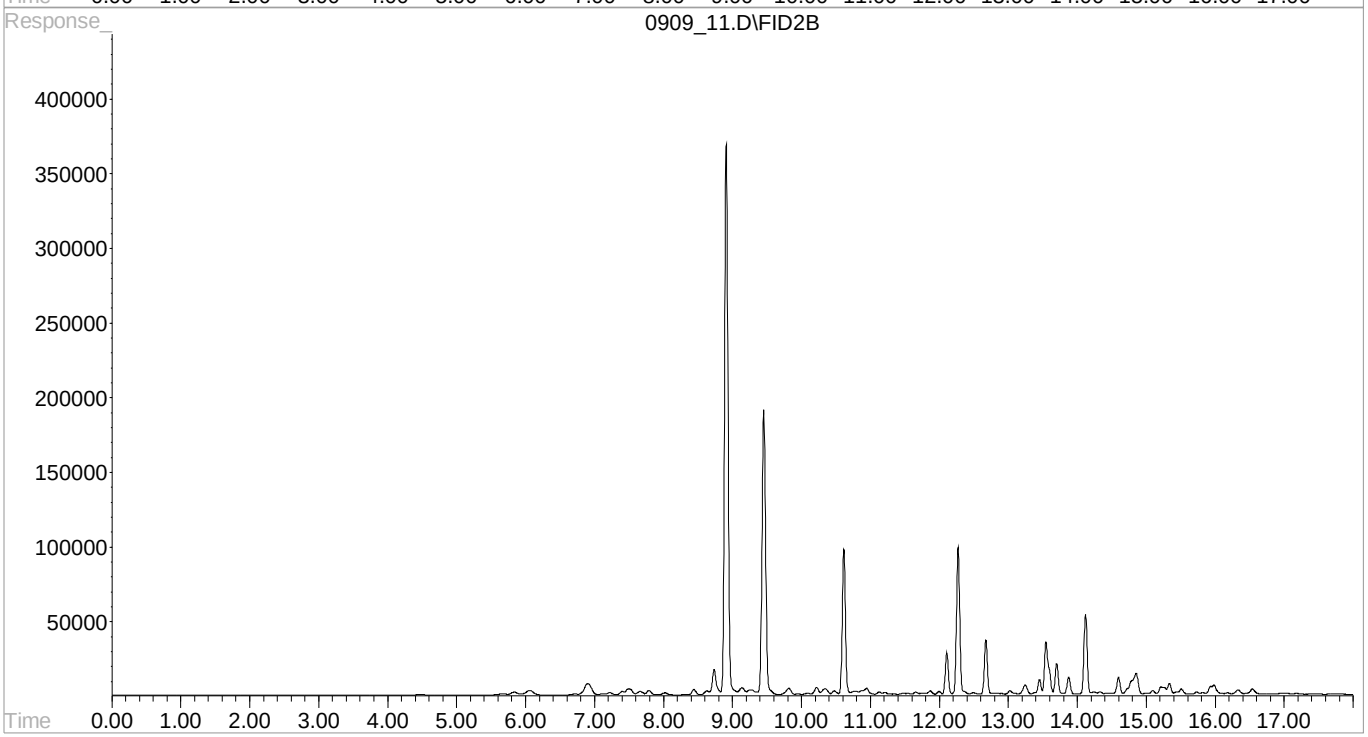
Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\090914\0909 11.D\FID1A.CH Vial: 11
Signal #2 : C:\HPCHEM\1\DATA\090914\0909 11.D\FID2B.CH
Acq On : 9 Sep 2014 4:56 pm Operator: 621
Sample : STD GRO .55 ppm 14I07115 Inst : VOCGC7
Misc : water ISSURR14C12923 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS3.E
Quant Time: Sep 10 13:44 2014 Quant Results File: BG07I09N.RES

Quant Method : C:\HPCHEM\1\METHODS\BG07I09N.M (Chemstation Integrator)
Title : WIS GRO VOCGC07
Last Update : Wed Sep 10 13:42:46 2014
Response via : Single Level Calibration
DataAcq Meth : VOCGC14A.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Quantitation Report (Not Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\090914\0909 12.D\FID1A.CH Vial: 12
Signal #2 : C:\HPCHEM\1\DATA\090914\0909 12.D\FID2B.CH
Acq On : 9 Sep 2014 5:21 pm Operator: 621
Sample : STD GRO 1.1 ppm 14I07115 Inst : VOCGC7
Misc : water ISSURR14C12923 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS3.E
Quant Time: Sep 10 13:43 2014 Quant Results File: BG07I09N.RES

Quant Method : C:\HPCHEM\1\METHODS\BG07I09N.M (Chemstation Integrator)
Title : WIS GRO VOCGC07
Last Update : Wed Sep 10 13:42:46 2014
Response via : Initial Calibration
DataAcq Meth : VOCGC14A.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

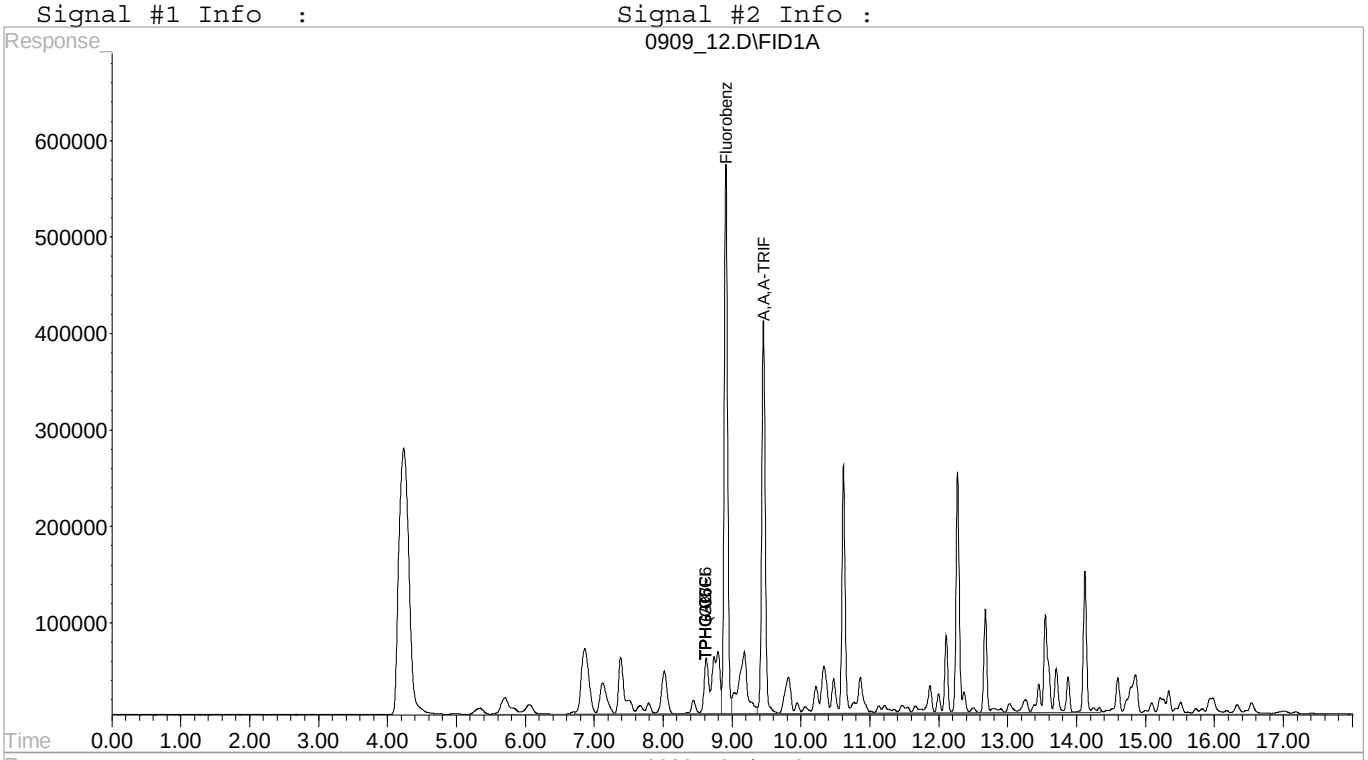
Compound	R.T.	Response	Conc	Units
Internal Standards				
1) I Fluorobenzene #1	8.91	19430940	200.0000000	ppb
9) I Fluorobenzene #2	8.91	12201521	200.0000000	ppb
System Monitoring Compounds				
7) S A,A,A-TRIFLUOROTOLUENE(FID	9.46	14968546	187.1996338	ppb
Spiked Amount 200.000 Range 62 - 128		Recovery = 93.60%		
10) S A,A,A-TRIFLUOROTOLUENE(PID	9.46	6813366	NoCal	ppb
Spiked Amount 200.000 Range 55 - 122		Recovery = 0.00%#		
Target Compounds				
2) H,M TPHG C4 - C12	0.00	25178	NoCal	ppm
3) H,M TPHG C5 - C12	8.61	100785390	1.1985691	ppm
4) H,M TPHG C6 - C12	8.61	98177538	1.1993791	ppm
5) H,M TPHGAK C6 to C10	8.61	76606430	1.1930125	ppm
6) h,m TPH (GC/FID) Low Fraction	8.61	81904436	1.1927455	ppm
11) T,M Methyl Tert-Butyl Ether	6.90	1137356	NoCal	ppb
12) T,M benzene	8.74	1440217	NoCal	ppb
13) T,M toluene	10.62	6038749	NoCal	ppb
14) T,M ethylbenzene	12.11	1726469	NoCal	ppb
15) T,M m&p-xylene	12.27	6509973	NoCal	ppb
16) T,M o-xylene	12.68	2242694	NoCal	ppb
17) T,M 1,3,5-Trimethylbenzene	13.70	1350723	NoCal	ppb
18) T,M 1,2,4-Trimethylbenzene	14.12	3498566	NoCal	ppb
19) T,M Naphthalene	17.40	38980	NoCal	ppb

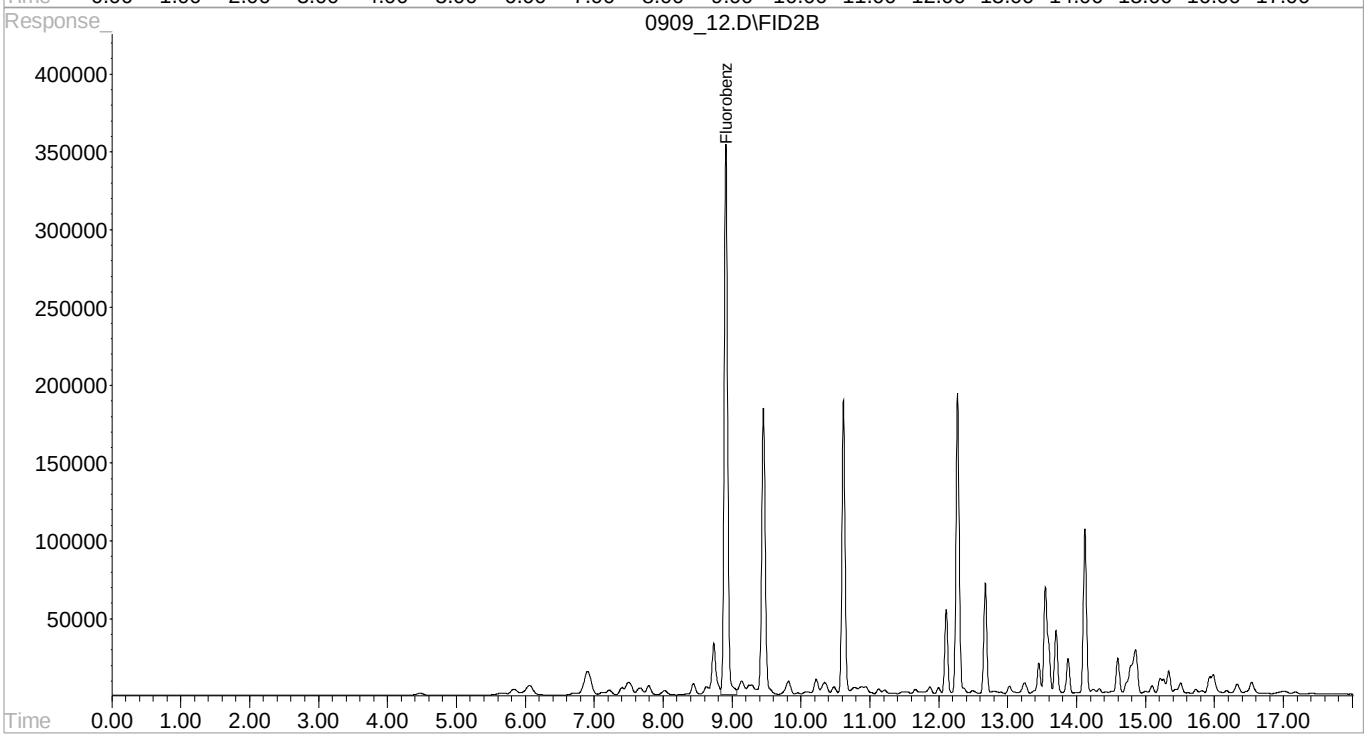
Quantitation Report (Not Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\090914\0909 12.D\FID1A.CH Vial: 12
Signal #2 : C:\HPCHEM\1\DATA\090914\0909 12.D\FID2B.CH
Acq On : 9 Sep 2014 5:21 pm Operator: 621
Sample : STD GRO 1.1 ppm 14I07115 Inst : VOCGC7
Misc : water ISSURR14C12923 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS3.E
Quant Time: Sep 10 13:43 2014 Quant Results File: BG07I09N.RES

Quant Method : C:\HPCHEM\1\METHODS\BG07I09N.M (Chemstation Integrator)
Title : WIS GRO VOCGC07
Last Update : Wed Sep 10 13:42:46 2014
Response via : Single Level Calibration
DataAcq Meth : VOCGC14A.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\090914\0909 12.D\FID1A.CH Vial: 12
Signal #2 : C:\HPCHEM\1\DATA\090914\0909 12.D\FID2B.CH
Acq On : 9 Sep 2014 5:21 pm Operator: 621
Sample : STD GRO 1.1 ppm 14I07115 Inst : VOCGC7
Misc : water ISSURR14C12923 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS3.E
Quant Time: Sep 10 13:44 2014 Quant Results File: BG07I09N.RES

Quant Method : C:\HPCHEM\1\METHODS\BG07I09N.M (Chemstation Integrator)
Title : WIS GRO VOCGC07
Last Update : Wed Sep 10 13:42:46 2014
Response via : Initial Calibration
DataAcq Meth : VOCGC14A.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

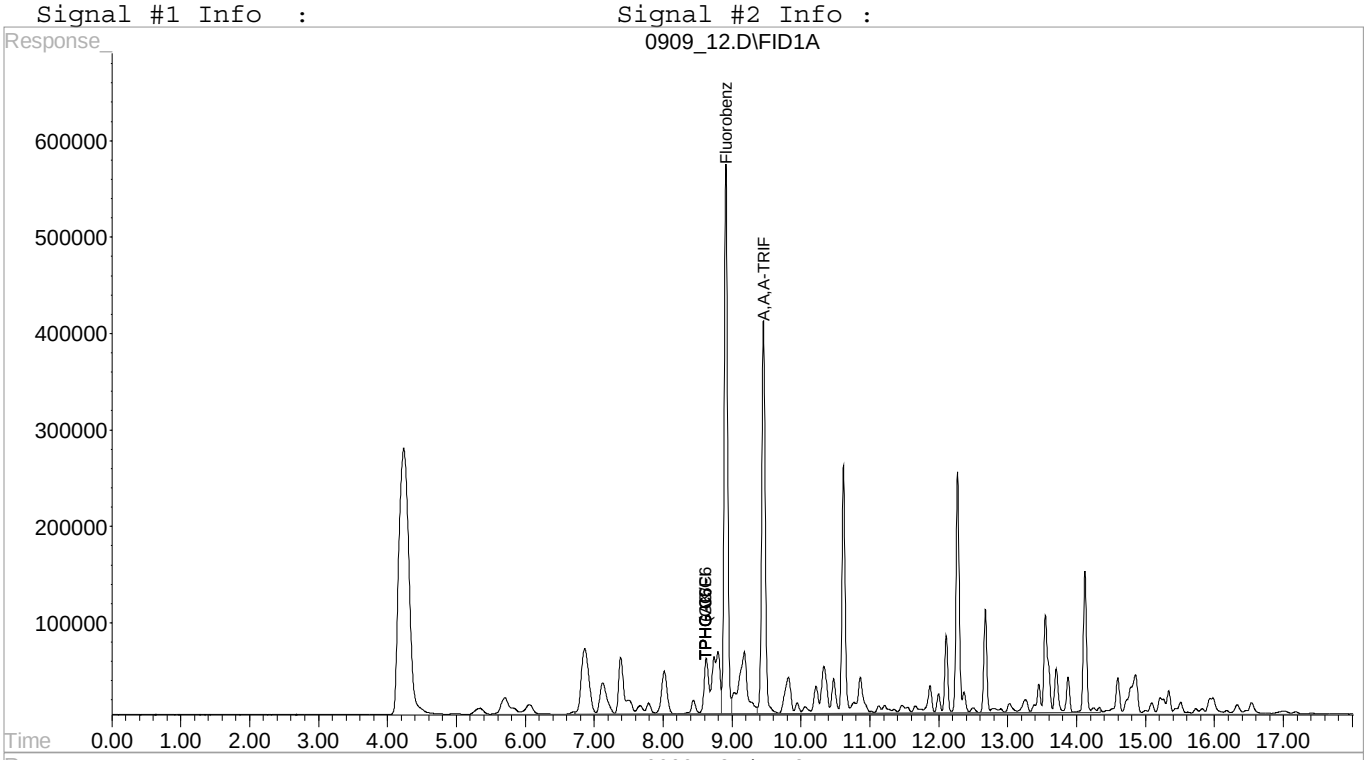
	Compound	R.T.	Response	Conc	Units
	Internal Standards				
1) I	Fluorobenzene #1	8.91	19430940	200.0000000	ppb
9) I	Fluorobenzene #2	0.00	0	N.D.	ppb d
	System Monitoring Compounds				
7) S	A,A,A-TRIFLUOROTOLUENE(FID	9.46	14968546	187.1996338	ppb
Spiked Amount	200.000 Range 62 - 128	Recovery	=	93.60%	
10) S	A,A,A-TRIFLUOROTOLUENE(PID	0.00	0	N.D.	ppb d
Spiked Amount	200.000 Range 55 - 122	Recovery	=	0.00%#	
	Target Compounds				
2) H,M	TPHG C4 - C12	0.00	25178	NoCal	ppm
3) H,M	TPHG C5 - C12	8.61	100785390	1.1985691	ppm
4) H,M	TPHG C6 - C12	8.61	98177538	1.1993791	ppm
5) H,M	TPHGAK C6 to C10	8.61	76606430	1.1930125	ppm
6) h,m	TPH (GC/FID) Low Fraction	8.61	81904436	1.1927455	ppm
11) T,M	Methyl Tert-Butyl Ether	0.00	0	N.D.	ppb d
12) T,M	benzene	0.00	0	N.D.	ppb d
13) T,M	toluene	0.00	0	N.D.	ppb d
14) T,M	ethylbenzene	0.00	0	N.D.	ppb d
15) T,M	m&p-xylene	0.00	0	N.D.	ppb d
16) T,M	o-xylene	0.00	0	N.D.	ppb d
17) T,M	1,3,5-Trimethylbenzene	0.00	0	N.D.	ppb d
18) T,M	1,2,4-Trimethylbenzene	0.00	0	N.D.	ppb d
19) T,M	Naphthalene	0.00	0	N.D.	ppb d

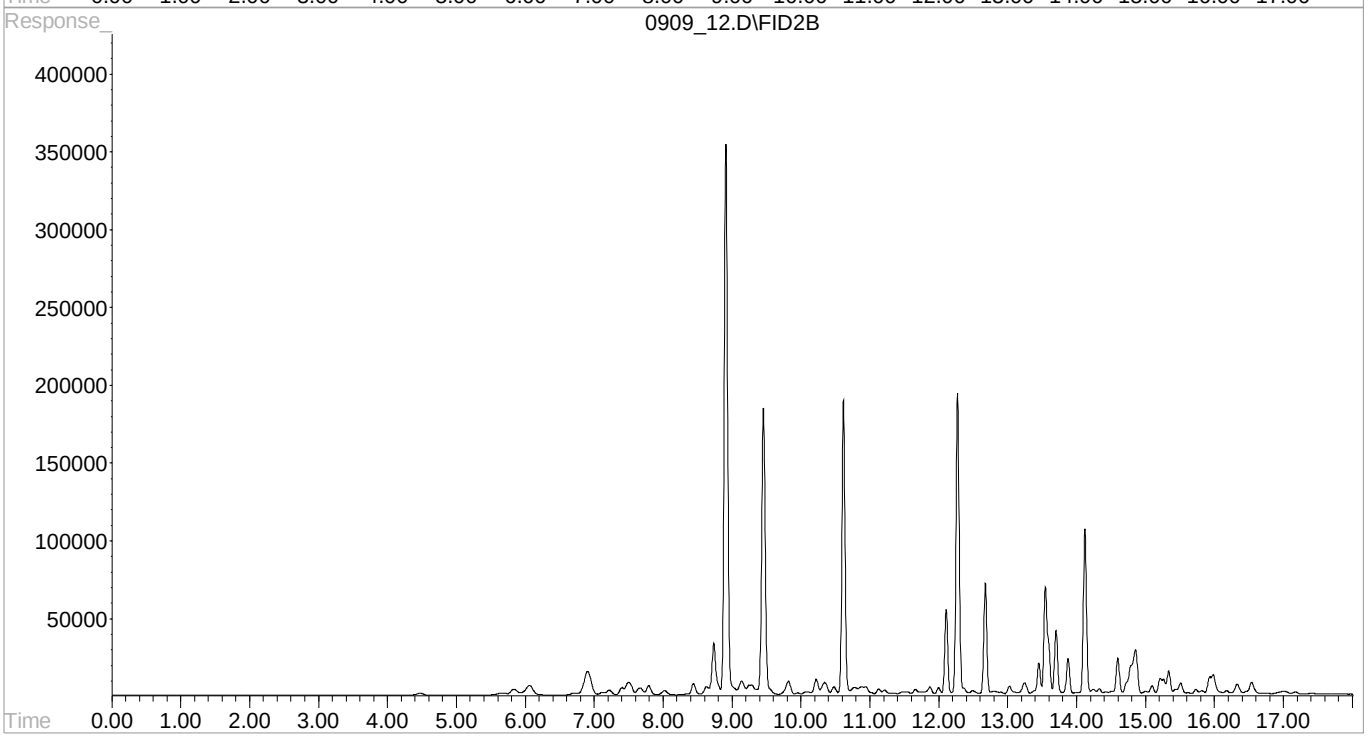
Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\090914\0909 12.D\FID1A.CH Vial: 12
Signal #2 : C:\HPCHEM\1\DATA\090914\0909 12.D\FID2B.CH
Acq On : 9 Sep 2014 5:21 pm Operator: 621
Sample : STD GRO 1.1 ppm 14I07115 Inst : VOCGC7
Misc : water ISSURR14C12923 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS3.E
Quant Time: Sep 10 13:44 2014 Quant Results File: BG07I09N.RES

Quant Method : C:\HPCHEM\1\METHODS\BG07I09N.M (Chemstation Integrator)
Title : WIS GRO VOCGC07
Last Update : Wed Sep 10 13:42:46 2014
Response via : Single Level Calibration
DataAcq Meth : VOCGC14A.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Quantitation Report (Not Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\090914\0909 13.D\FID1A.CH Vial: 13
Signal #2 : C:\HPCHEM\1\DATA\090914\0909 13.D\FID2B.CH
Acq On : 9 Sep 2014 5:46 pm Operator: 621
Sample : STD GRO 2.75 ppm 14I07115 Inst : VOCGC7
Misc : water ISSURR14C12923 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS3.E
Quant Time: Sep 10 13:43 2014 Quant Results File: BG07I09N.RES

Quant Method : C:\HPCHEM\1\METHODS\BG07I09N.M (Chemstation Integrator)
Title : WIS GRO VOCGC07
Last Update : Wed Sep 10 13:42:46 2014
Response via : Initial Calibration
DataAcq Meth : VOCGC14A.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

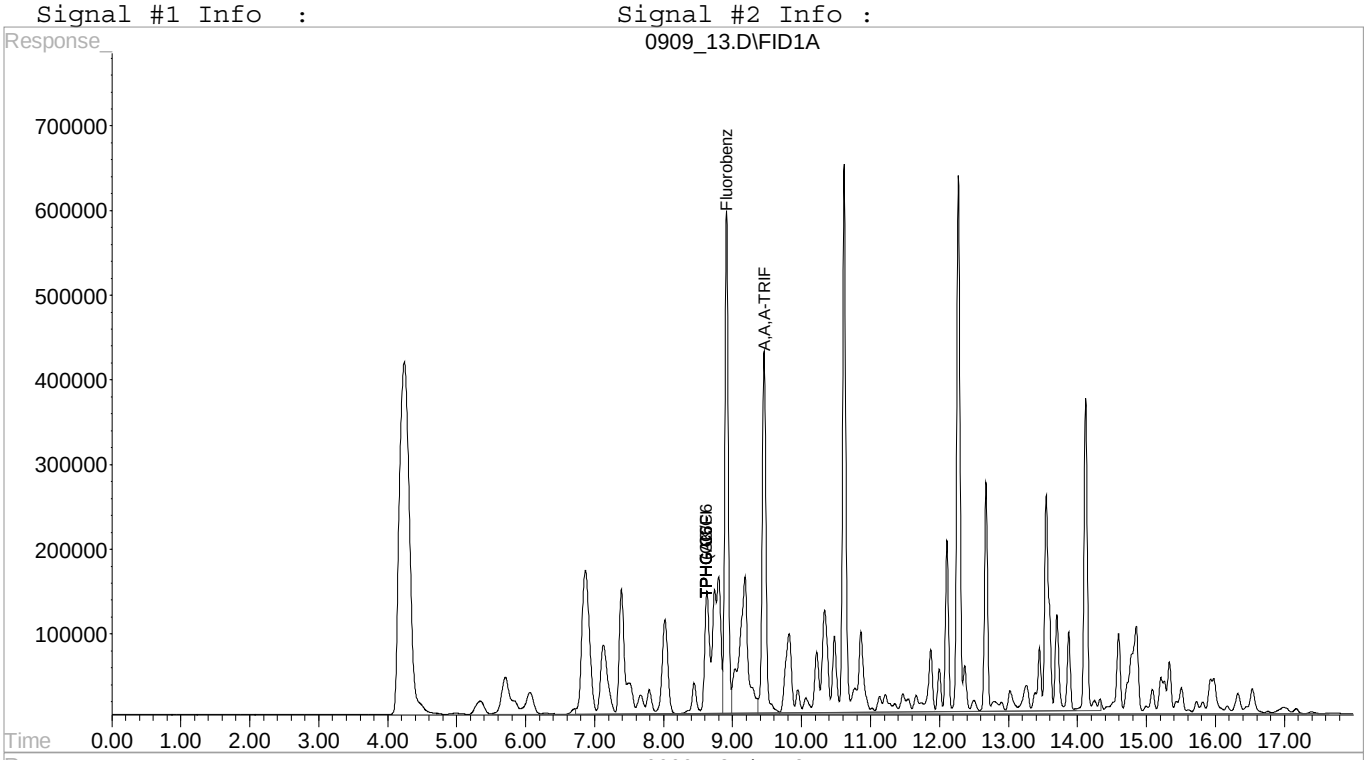
Compound	R.T.	Response	Conc	Units
Internal Standards				
1) I Fluorobenzene #1	8.91	20518306	200.0000000	ppb
9) I Fluorobenzene #2	8.91	13034942	200.0000000	ppb
System Monitoring Compounds				
7) S A,A,A-TRIFLUOROTOLUENE(FID	9.46	16469130	195.0510729	ppb
Spiked Amount 200.000 Range 62 - 128		Recovery = 97.53%		
10) S A,A,A-TRIFLUOROTOLUENE(PID	9.46	7505633	NoCal	ppb
Spiked Amount 200.000 Range 55 - 122		Recovery = 0.00%#		
Target Compounds				
2) H,M TPHG C4 - C12	0.00	22983	NoCal	ppm
3) H,M TPHG C5 - C12	8.61	252374027	2.8422513	ppm
4) H,M TPHG C6 - C12	8.61	245715085	2.8426834	ppm
5) H,M TPHGAK C6 to C10	8.61	192144860	2.8337456	ppm
6) h,m TPH (GC/FID) Low Fraction	8.61	205455674	2.8334191	ppm
11) T,M Methyl Tert-Butyl Ether	6.91	2779423	NoCal	ppb
12) T,M benzene	8.74	3596781	NoCal	ppb
13) T,M toluene	10.62	14839176	NoCal	ppb
14) T,M ethylbenzene	12.11	4301547	NoCal	ppb
15) T,M m&p-xylene	12.27	16016206	NoCal	ppb
16) T,M o-xylene	12.67	5557318	NoCal	ppb
17) T,M 1,3,5-Trimethylbenzene	13.70	3337632	NoCal	ppb
18) T,M 1,2,4-Trimethylbenzene	14.12	8588491	NoCal	ppb
19) T,M Naphthalene	17.39	104290	NoCal	ppb

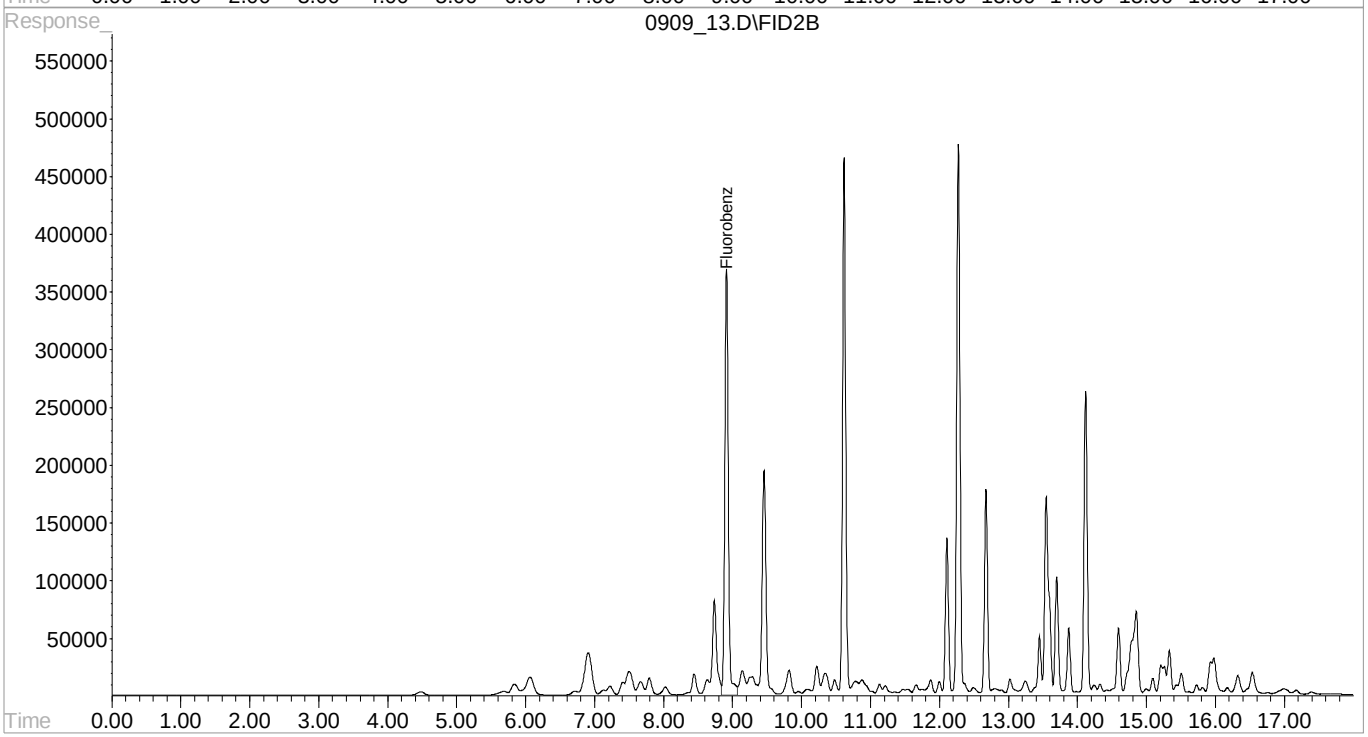
Quantitation Report (Not Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\090914\0909 13.D\FID1A.CH Vial: 13
Signal #2 : C:\HPCHEM\1\DATA\090914\0909 13.D\FID2B.CH
Acq On : 9 Sep 2014 5:46 pm Operator: 621
Sample : STD GRO 2.75 ppm 14I07115 Inst : VOCGC7
Misc : water ISSURR14C12923 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS3.E
Quant Time: Sep 10 13:43 2014 Quant Results File: BG07I09N.RES

Quant Method : C:\HPCHEM\1\METHODS\BG07I09N.M (Chemstation Integrator)
Title : WIS GRO VOCGC07
Last Update : Wed Sep 10 13:42:46 2014
Response via : Single Level Calibration
DataAcq Meth : VOCGC14A.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\090914\0909 13.D\FID1A.CH Vial: 13
Signal #2 : C:\HPCHEM\1\DATA\090914\0909 13.D\FID2B.CH
Acq On : 9 Sep 2014 5:46 pm Operator: 621
Sample : STD GRO 2.75 ppm 14I07115 Inst : VOCGC7
Misc : water ISSURR14C12923 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS3.E
Quant Time: Sep 10 13:44 2014 Quant Results File: BG07I09N.RES

Quant Method : C:\HPCHEM\1\METHODS\BG07I09N.M (Chemstation Integrator)
Title : WIS GRO VOCGC07
Last Update : Wed Sep 10 13:42:46 2014
Response via : Initial Calibration
DataAcq Meth : VOCGC14A.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

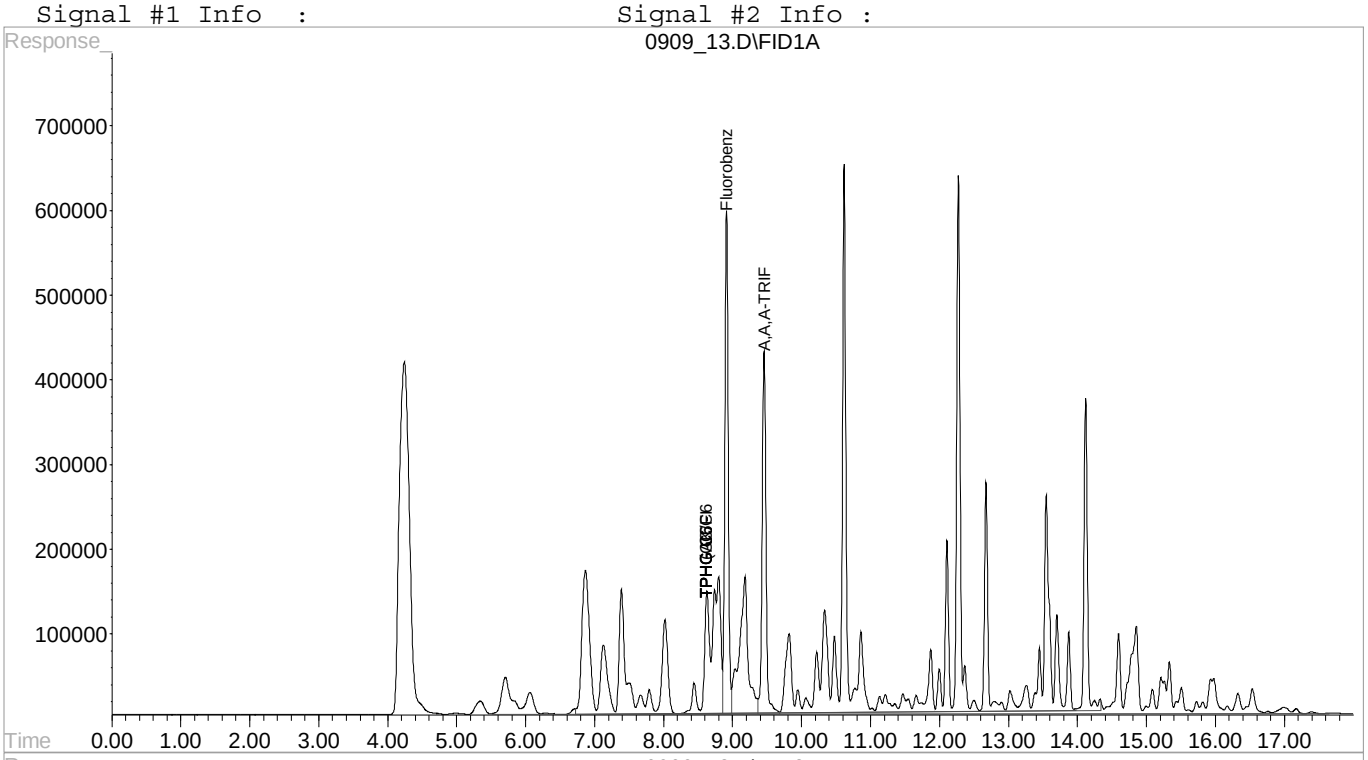
Compound	R.T.	Response	Conc	Units
Internal Standards				
1) I Fluorobenzene #1	8.91	20518306	200.0000000	ppb
9) I Fluorobenzene #2	0.00	0	N.D.	ppb d
System Monitoring Compounds				
7) S A,A,A-TRIFLUOROTOLUENE(FID	9.46	16469130	195.0510729	ppb
Spiked Amount 200.000 Range 62 - 128		Recovery =	97.53%	
10) S A,A,A-TRIFLUOROTOLUENE(PID	0.00	0	N.D.	ppb d
Spiked Amount 200.000 Range 55 - 122		Recovery =	0.00%#	
Target Compounds				
2) H,M TPHG C4 - C12	0.00	22983	NoCal	ppm
3) H,M TPHG C5 - C12	8.61	252374027	2.8422513	ppm
4) H,M TPHG C6 - C12	8.61	245715085	2.8426834	ppm
5) H,M TPHGAK C6 to C10	8.61	192144860	2.8337456	ppm
6) h,m TPH (GC/FID) Low Fraction	8.61	205455674	2.8334191	ppm
11) T,M Methyl Tert-Butyl Ether	0.00	0	N.D.	ppb d
12) T,M benzene	0.00	0	N.D.	ppb d
13) T,M toluene	0.00	0	N.D.	ppb d
14) T,M ethylbenzene	0.00	0	N.D.	ppb d
15) T,M m&p-xylene	0.00	0	N.D.	ppb d
16) T,M o-xylene	0.00	0	N.D.	ppb d
17) T,M 1,3,5-Trimethylbenzene	0.00	0	N.D.	ppb d
18) T,M 1,2,4-Trimethylbenzene	0.00	0	N.D.	ppb d
19) T,M Naphthalene	0.00	0	N.D.	ppb d

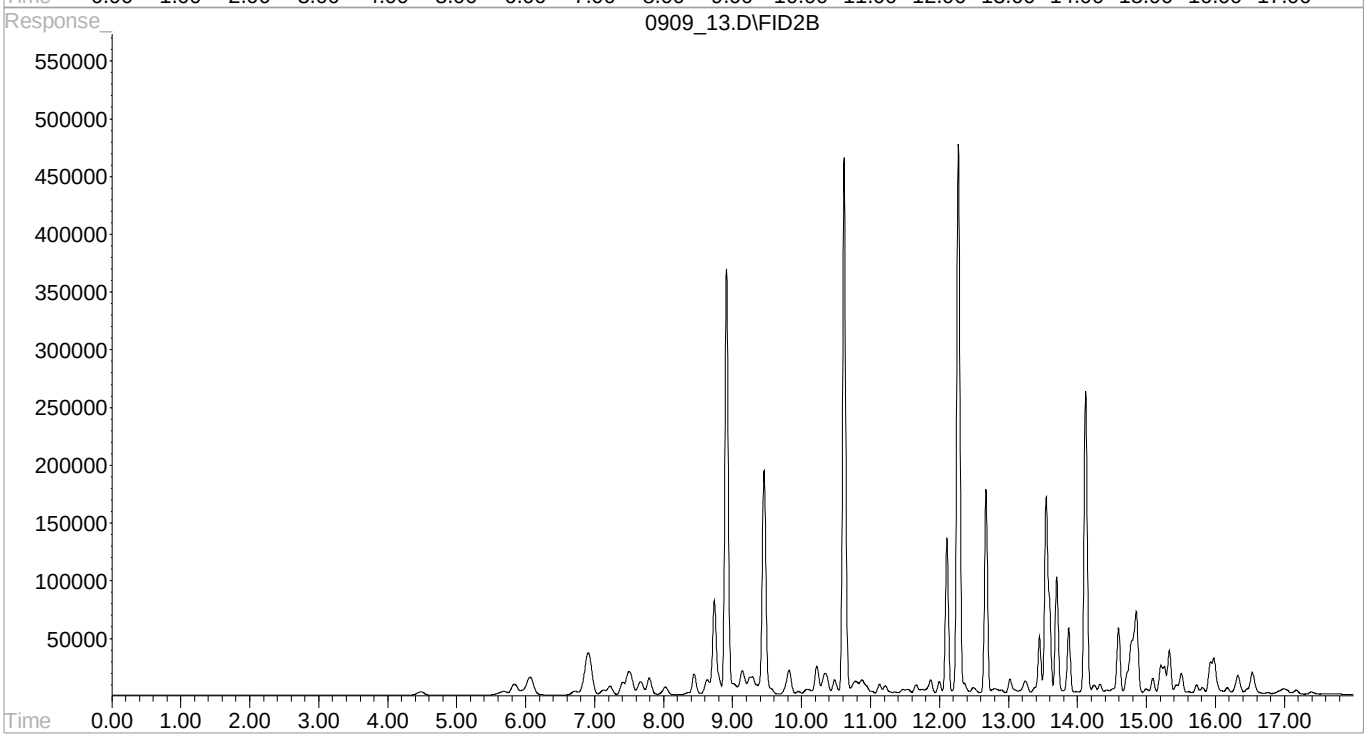
Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\090914\0909 13.D\FID1A.CH Vial: 13
Signal #2 : C:\HPCHEM\1\DATA\090914\0909 13.D\FID2B.CH
Acq On : 9 Sep 2014 5:46 pm Operator: 621
Sample : STD GRO 2.75 ppm 14I07115 Inst : VOCGC7
Misc : water ISSURR14C12923 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS3.E
Quant Time: Sep 10 13:44 2014 Quant Results File: BG07I09N.RES

Quant Method : C:\HPCHEM\1\METHODS\BG07I09N.M (Chemstation Integrator)
Title : WIS GRO VOCGC07
Last Update : Wed Sep 10 13:42:46 2014
Response via : Single Level Calibration
DataAcq Meth : VOCGC14A.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Quantitation Report (Not Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\090914\0909 14.D\FID1A.CH Vial: 14
Signal #2 : C:\HPCHEM\1\DATA\090914\0909 14.D\FID2B.CH
Acq On : 9 Sep 2014 6:11 pm Operator: 621
Sample : MSTD GRO 5.5g ppm 14I07115 Inst : VOCGC7
Misc : water ISSURR14C12923 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS3.E
Quant Time: Sep 10 13:43 2014 Quant Results File: BG07I09N.RES

Quant Method : C:\HPCHEM\1\METHODS\BG07I09N.M (Chemstation Integrator)
Title : WIS GRO VOCGC07
Last Update : Wed Sep 10 13:42:46 2014
Response via : Initial Calibration
DataAcq Meth : VOCGC14A.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

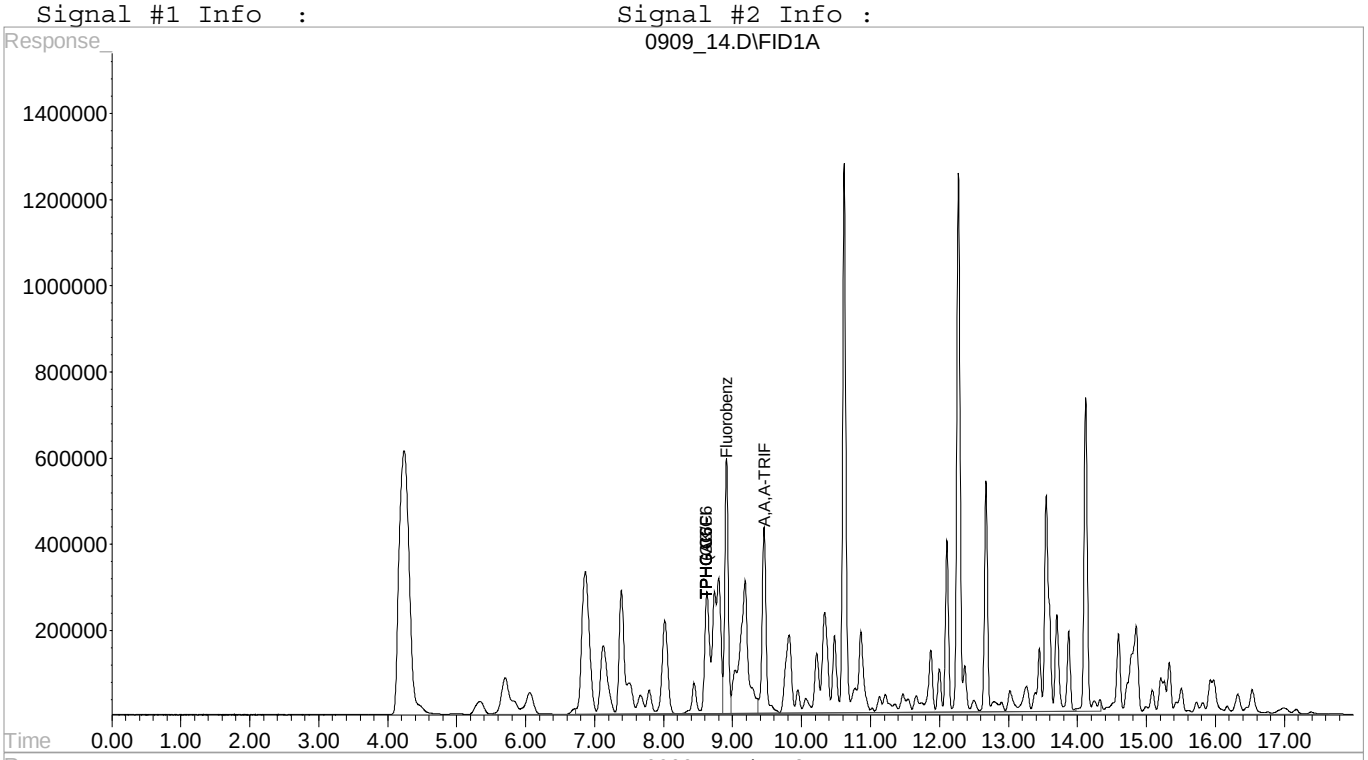
Compound	R.T.	Response	Conc	Units
Internal Standards				
1) I Fluorobenzene #1	8.91	20714043	200.0000000	ppb
9) I Fluorobenzene #2	8.91	13485622	200.0000000	ppb
System Monitoring Compounds				
7) S A,A,A-TRIFLUOROTOLUENE(FID	9.46	17900493	210.0000000	ppb
Spiked Amount 200.000 Range 62 - 128		Recovery = 105.00%		
10) S A,A,A-TRIFLUOROTOLUENE(PID	9.46	8184040	NoCal	ppb
Spiked Amount 200.000 Range 55 - 122		Recovery = 0.00%#		
Target Compounds				
2) H,M TPHG C4 - C12	0.00	23791	NoCal	ppm
3) H,M TPHG C5 - C12	8.61	493024223	5.5000000	ppm
4) H,M TPHG C6 - C12	8.61	479942720	5.5000000	ppm
5) H,M TPHGAK C6 to C10	8.61	376490472	5.5000000	ppm
6) h,m TPH (GC/FID) Low Fraction	8.61	402618193	5.5000000	ppm
11) T,M Methyl Tert-Butyl Ether	6.91	5217055	NoCal	ppb
12) T,M benzene	8.74	6971112	NoCal	ppb
13) T,M toluene	10.62	28387174	NoCal	ppb
14) T,M ethylbenzene	12.11	8376767	NoCal	ppb
15) T,M m&p-xylene	12.27	30423638	NoCal	ppb
16) T,M o-xylene	12.67	10737408	NoCal	ppb
17) T,M 1,3,5-Trimethylbenzene	13.70	6457174	NoCal	ppb
18) T,M 1,2,4-Trimethylbenzene	14.12	16548011	NoCal	ppb
19) T,M Naphthalene	17.39	260983	NoCal	ppb

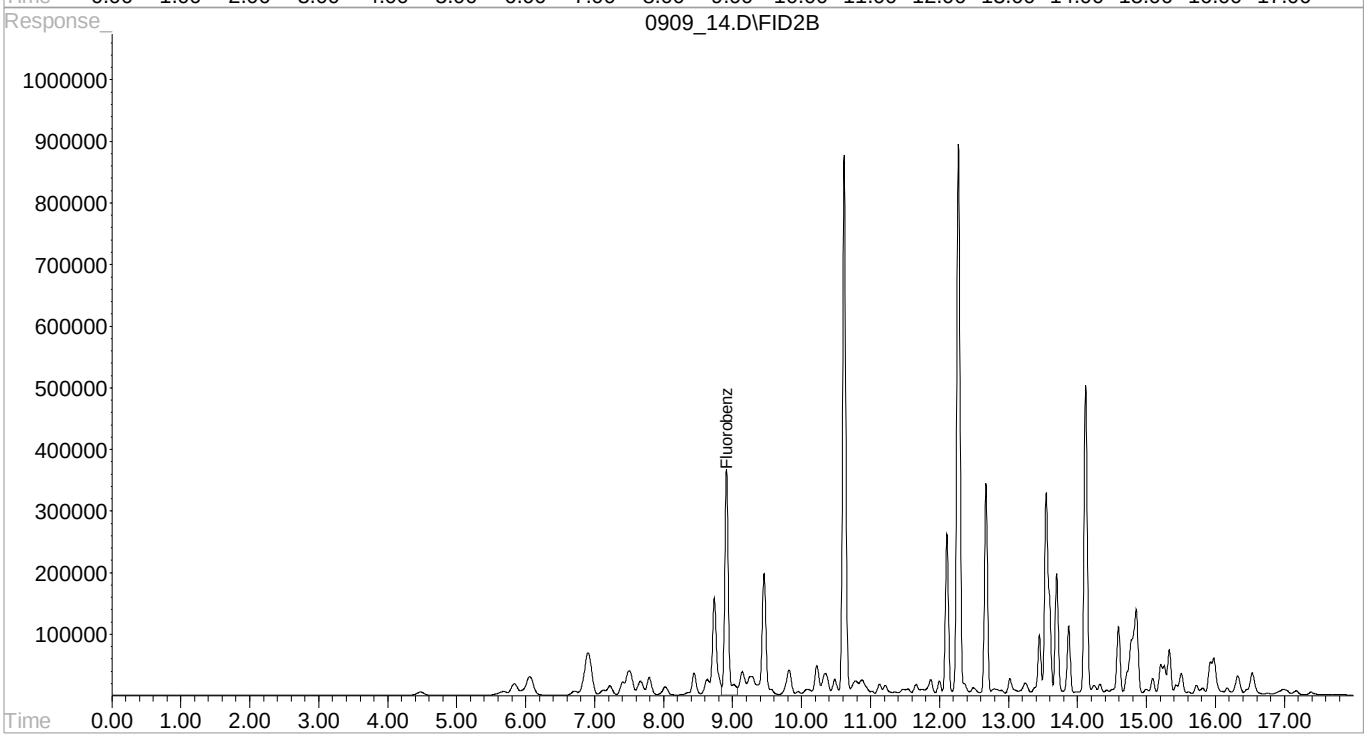
Quantitation Report (Not Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\090914\0909 14.D\FID1A.CH Vial: 14
Signal #2 : C:\HPCHEM\1\DATA\090914\0909 14.D\FID2B.CH
Acq On : 9 Sep 2014 6:11 pm Operator: 621
Sample : MSTD GRO 5.5g ppm 14I07115 Inst : VOCGC7
Misc : water ISSURR14C12923 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS3.E
Quant Time: Sep 10 13:43 2014 Quant Results File: BG07I09N.RES

Quant Method : C:\HPCHEM\1\METHODS\BG07I09N.M (Chemstation Integrator)
Title : WIS GRO VOCGC07
Last Update : Wed Sep 10 13:42:46 2014
Response via : Single Level Calibration
DataAcq Meth : VOCGC14A.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Quantitation Report (QT Reviewed)

```
Signal #1 : C:\HPCHEM\1\DATA\090914\0909 14.D\FID1A.CH   Vial: 14
Signal #2 : C:\HPCHEM\1\DATA\090914\0909 14.D\FID2B.CH
Acq On    :  9 Sep 2014   6:11 pm                    Operator: 621
Sample    : MSTD GRO 5.5g ppm 14I07115               Inst    : VOCGC7
Misc      : water ISSURR14C12923                     Multiplr: 1.00
IntFile Signal #1: EVENTS.E     IntFile Signal #2: EVENTS3.E
Quant Time: Sep 10 13:44 2014  Quant Results File: BG07I09N.RES

Quant Method : C:\HPCHEM\1\METHODS\BG07I09N.M (Chemstation Integrator)
Title        : WIS GRO VOCGC07
Last Update  : Wed Sep 10 13:42:46 2014
Response via : Initial Calibration
DataAcq Meth : VOCGC14A.M

Volume Inj.     :
Signal #1 Phase :                    Signal #2 Phase:
Signal #1 Info  :                    Signal #2 Info :
```

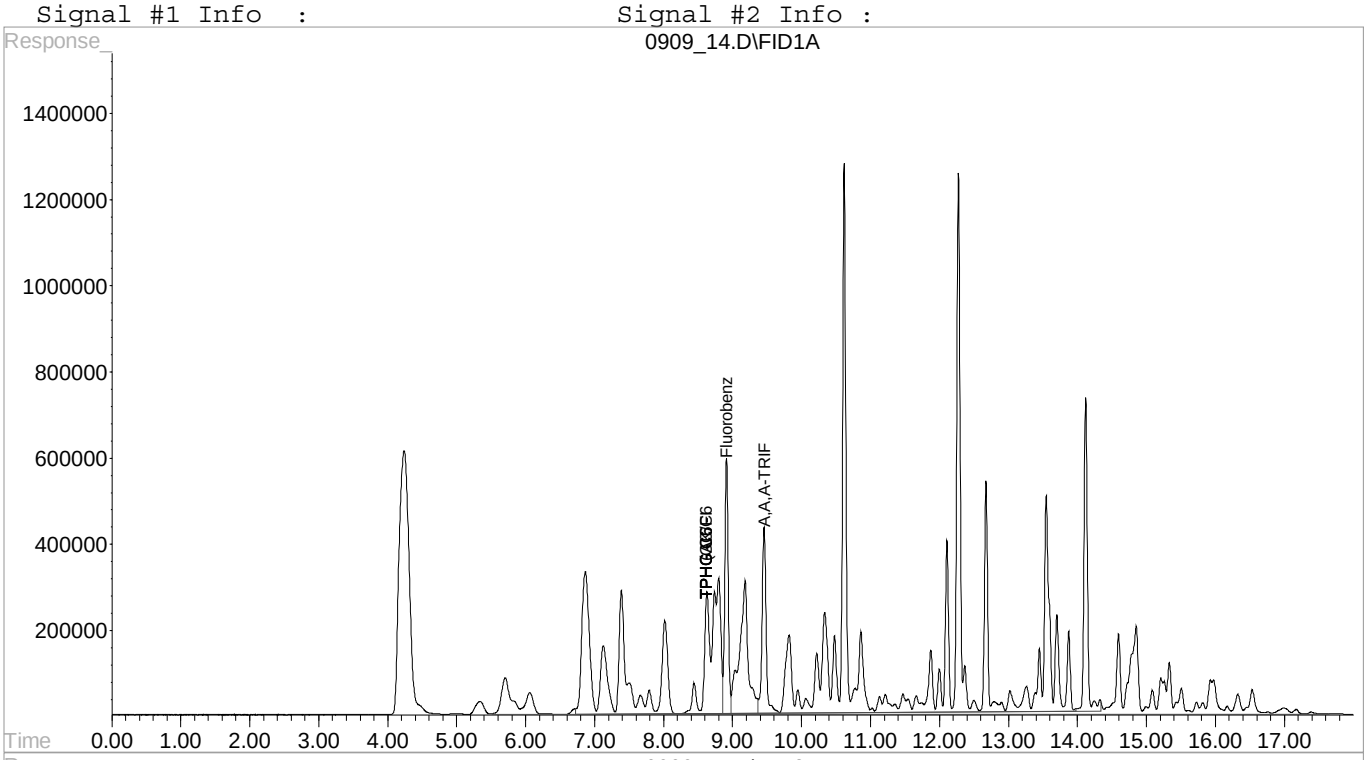
Compound	R.T.	Response	Conc	Units
Internal Standards				
1) I Fluorobenzene #1	8.91	20714043	200.0000000	ppb
9) I Fluorobenzene #2	0.00	0	N.D.	ppb d
System Monitoring Compounds				
7) S A,A,A-TRIFLUOROTOLUENE(FID	9.46	17900493	210.0000000	ppb
Spiked Amount 200.000 Range 62 - 128		Recovery	= 105.00%	
10) S A,A,A-TRIFLUOROTOLUENE(PID	0.00	0	N.D.	ppb d
Spiked Amount 200.000 Range 55 - 122		Recovery	= 0.00%#	
Target Compounds				
2) H,M TPHG C4 - C12	0.00	23791	NoCal	ppm
3) H,M TPHG C5 - C12	8.61	493024223	5.5000000	ppm
4) H,M TPHG C6 - C12	8.61	479942720	5.5000000	ppm
5) H,M TPHGAK C6 to C10	8.61	376490472	5.5000000	ppm
6) h,m TPH (GC/FID) Low Fraction	8.61	402618193	5.5000000	ppm
11) T,M Methyl Tert-Butyl Ether	0.00	0	N.D.	ppb d
12) T,M benzene	0.00	0	N.D.	ppb d
13) T,M toluene	0.00	0	N.D.	ppb d
14) T,M ethylbenzene	0.00	0	N.D.	ppb d
15) T,M m&p-xylene	0.00	0	N.D.	ppb d
16) T,M o-xylene	0.00	0	N.D.	ppb d
17) T,M 1,3,5-Trimethylbenzene	0.00	0	N.D.	ppb d
18) T,M 1,2,4-Trimethylbenzene	0.00	0	N.D.	ppb d
19) T,M Naphthalene	0.00	0	N.D.	ppb d

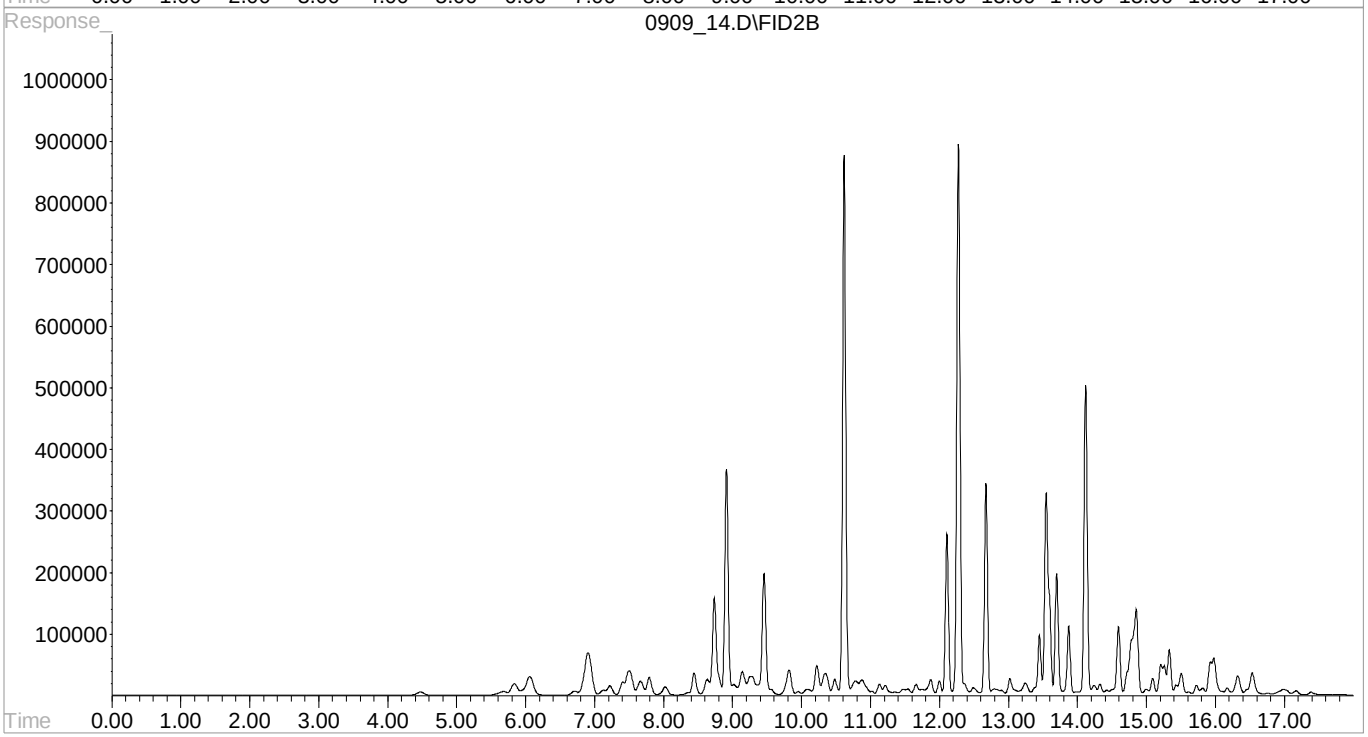
Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\090914\0909 14.D\FID1A.CH Vial: 14
Signal #2 : C:\HPCHEM\1\DATA\090914\0909 14.D\FID2B.CH
Acq On : 9 Sep 2014 6:11 pm Operator: 621
Sample : MSTD GRO 5.5g ppm 14I07115 Inst : VOCGC7
Misc : water ISSURR14C12923 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS3.E
Quant Time: Sep 10 13:44 2014 Quant Results File: BG07I09N.RES

Quant Method : C:\HPCHEM\1\METHODS\BG07I09N.M (Chemstation Integrator)
Title : WIS GRO VOCGC07
Last Update : Wed Sep 10 13:42:46 2014
Response via : Single Level Calibration
DataAcq Meth : VOCGC14A.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Quantitation Report (Not Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\090914\0909 15.D\FID1A.CH Vial: 15
Signal #2 : C:\HPCHEM\1\DATA\090914\0909 15.D\FID2B.CH
Acq On : 9 Sep 2014 6:36 pm Operator: 621
Sample : STD GRO 11 ppm 14I07115 Inst : VOCGC7
Misc : water ISSURR14C12923 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS3.E
Quant Time: Sep 10 13:43 2014 Quant Results File: BG07I09N.RES

Quant Method : C:\HPCHEM\1\METHODS\BG07I09N.M (Chemstation Integrator)
Title : WIS GRO VOCGC07
Last Update : Wed Sep 10 13:42:46 2014
Response via : Initial Calibration
DataAcq Meth : VOCGC14A.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

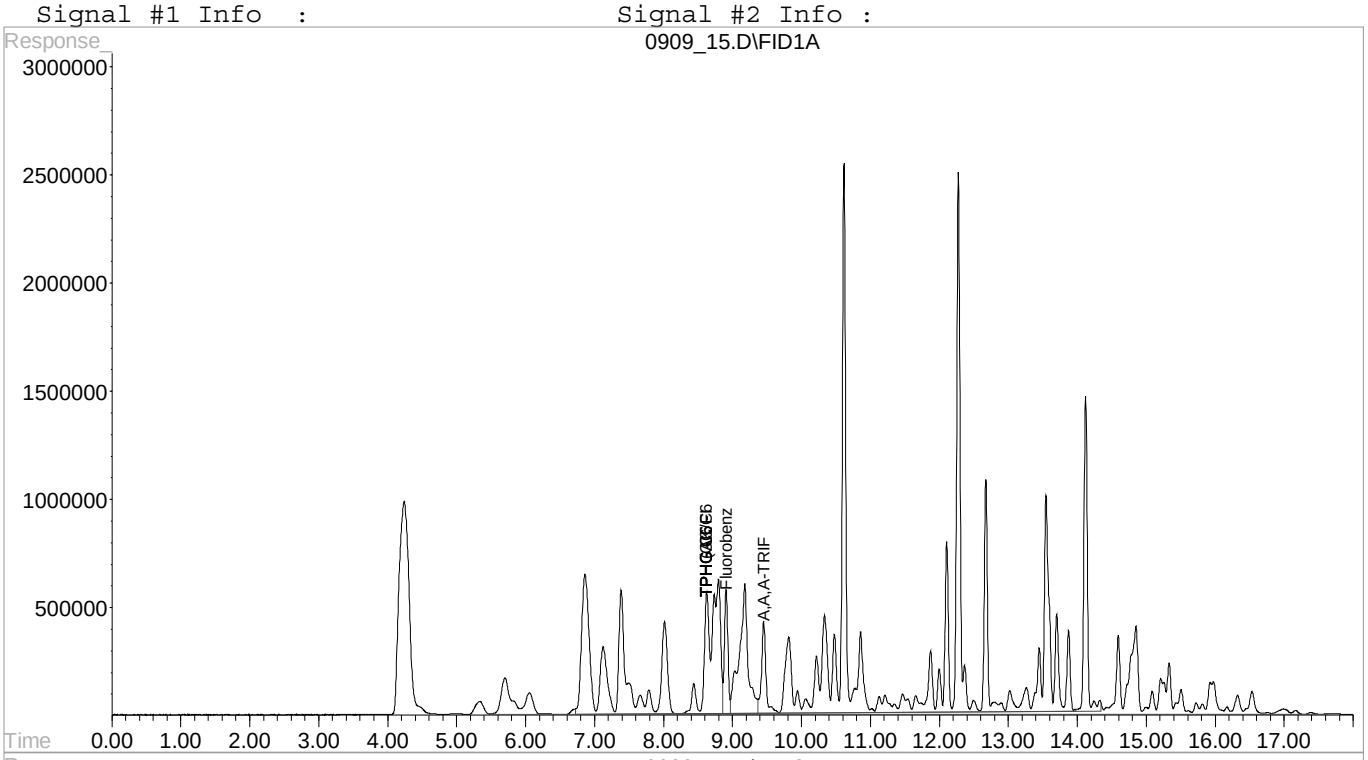
Compound	R.T.	Response	Conc	Units
Internal Standards				
1) I Fluorobenzene #1	8.91	20567044	200.0000000	ppb
9) I Fluorobenzene #2	8.91	12498933	200.0000000	ppb
System Monitoring Compounds				
7) S A,A,A-TRIFLUOROTOLUENE(FID	9.45	20113067	237.6433204	ppb
Spiked Amount 200.000 Range 62 - 128		Recovery = 118.82%		
10) S A,A,A-TRIFLUOROTOLUENE(PID	9.45	9203527	NoCal	ppb
Spiked Amount 200.000 Range 55 - 122		Recovery = 0.00%#		
Target Compounds				
2) H,M TPHG C4 - C12	0.00	19188	NoCal	ppm
3) H,M TPHG C5 - C12	8.61	976229810	10.9683045	ppm
4) H,M TPHG C6 - C12	8.61	950064229	10.9652680	ppm
5) H,M TPHGAK C6 to C10	8.61	751019947	11.0497684	ppm
6) h,m TPH (GC/FID) Low Fraction	8.61	803119260	11.0494927	ppm
11) T,M Methyl Tert-Butyl Ether	6.90	9710007	NoCal	ppb
12) T,M benzene	8.73	13792307	NoCal	ppb
13) T,M toluene	10.62	52899551	NoCal	ppb
14) T,M ethylbenzene	12.11	16221436	NoCal	ppb
15) T,M m&p-xylene	12.27	55305354	NoCal	ppb
16) T,M o-xylene	12.67	20593315	NoCal	ppb
17) T,M 1,3,5-Trimethylbenzene	13.70	12430798	NoCal	ppb
18) T,M 1,2,4-Trimethylbenzene	14.12	31672897	NoCal	ppb
19) T,M Naphthalene	17.38	466706	NoCal	ppb

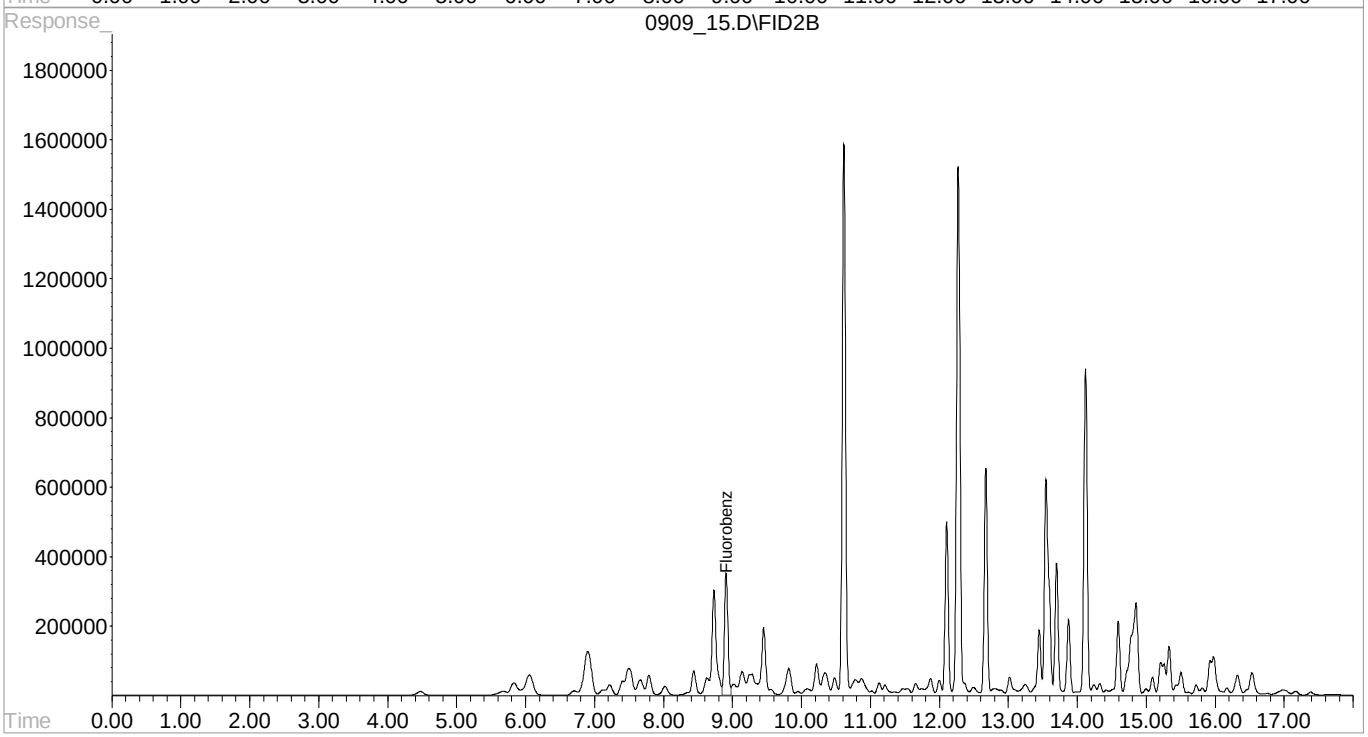
Quantitation Report (Not Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\090914\0909 15.D\FID1A.CH Vial: 15
Signal #2 : C:\HPCHEM\1\DATA\090914\0909 15.D\FID2B.CH
Acq On : 9 Sep 2014 6:36 pm Operator: 621
Sample : STD GRO 11 ppm 14I07115 Inst : VOCGC7
Misc : water ISSURR14C12923 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS3.E
Quant Time: Sep 10 13:43 2014 Quant Results File: BG07I09N.RES

Quant Method : C:\HPCHEM\1\METHODS\BG07I09N.M (Chemstation Integrator)
Title : WIS GRO VOCGC07
Last Update : Wed Sep 10 13:42:46 2014
Response via : Single Level Calibration
DataAcq Meth : VOCGC14A.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\090914\0909 15.D\FID1A.CH Vial: 15
Signal #2 : C:\HPCHEM\1\DATA\090914\0909 15.D\FID2B.CH
Acq On : 9 Sep 2014 6:36 pm Operator: 621
Sample : STD GRO 11 ppm 14I07115 Inst : VOCGC7
Misc : water ISSURR14C12923 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS3.E
Quant Time: Sep 10 13:45 2014 Quant Results File: BG07I09N.RES

Quant Method : C:\HPCHEM\1\METHODS\BG07I09N.M (Chemstation Integrator)
Title : WIS GRO VOCGC07
Last Update : Wed Sep 10 13:42:46 2014
Response via : Initial Calibration
DataAcq Meth : VOCGC14A.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

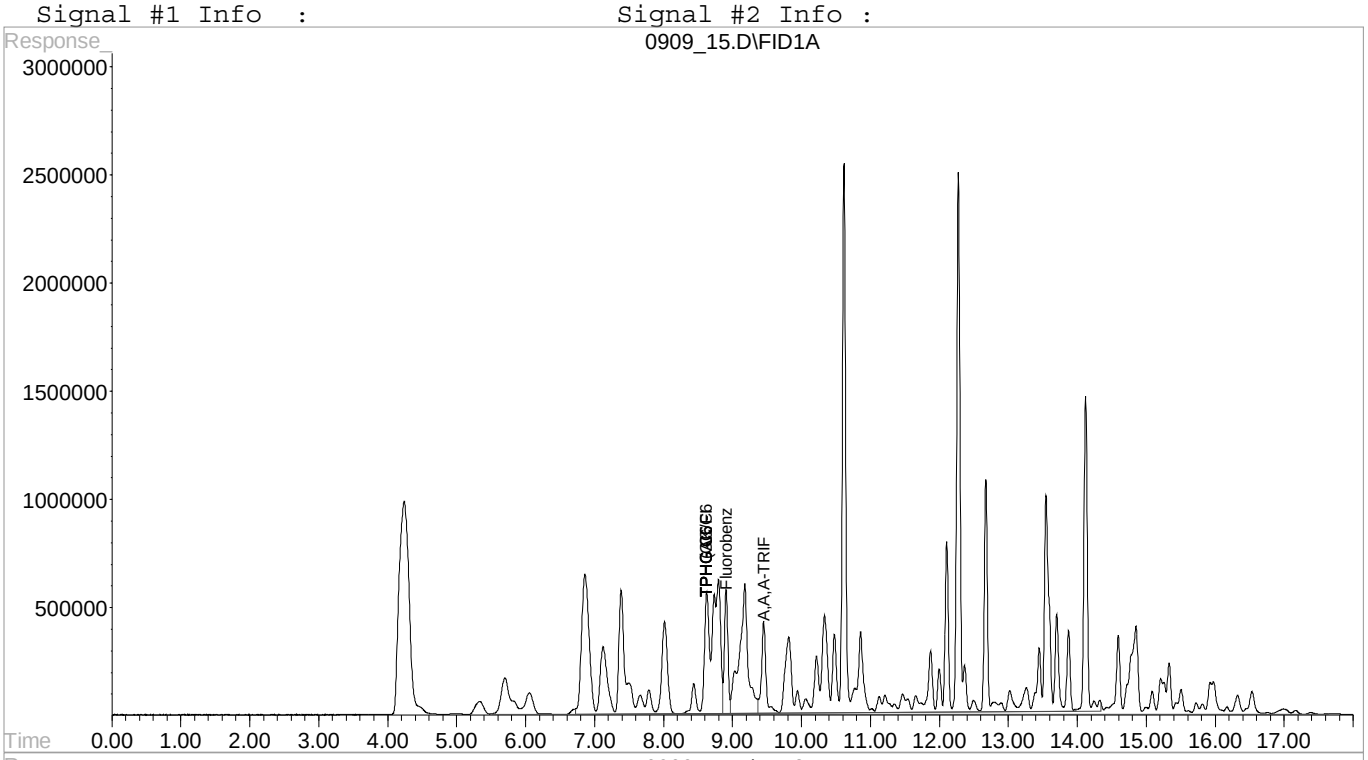
Compound	R.T.	Response	Conc	Units
Internal Standards				
1) I Fluorobenzene #1	8.91	20567044	200.0000000	ppb
9) I Fluorobenzene #2	0.00	0	N.D.	ppb d
System Monitoring Compounds				
7) S A,A,A-TRIFLUOROTOLUENE(FID	9.45	20113067	237.6433204	ppb
Spiked Amount 200.000 Range 62 - 128		Recovery = 118.82%		
10) S A,A,A-TRIFLUOROTOLUENE(PID	0.00	0	N.D.	ppb d
Spiked Amount 200.000 Range 55 - 122		Recovery = 0.00%#		
Target Compounds				
2) H,M TPHG C4 - C12	0.00	19188	NoCal	ppm
3) H,M TPHG C5 - C12	8.61	976229810	10.9683045	ppm
4) H,M TPHG C6 - C12	8.61	950064229	10.9652680	ppm
5) H,M TPHGAK C6 to C10	8.61	751019947	11.0497684	ppm
6) h,m TPH (GC/FID) Low Fraction	8.61	803119260	11.0494927	ppm
11) T,M Methyl Tert-Butyl Ether	0.00	0	N.D.	ppb d
12) T,M benzene	0.00	0	N.D.	ppb d
13) T,M toluene	0.00	0	N.D.	ppb d
14) T,M ethylbenzene	0.00	0	N.D.	ppb d
15) T,M m&p-xylene	0.00	0	N.D.	ppb d
16) T,M o-xylene	0.00	0	N.D.	ppb d
17) T,M 1,3,5-Trimethylbenzene	0.00	0	N.D.	ppb d
18) T,M 1,2,4-Trimethylbenzene	0.00	0	N.D.	ppb d
19) T,M Naphthalene	0.00	0	N.D.	ppb d

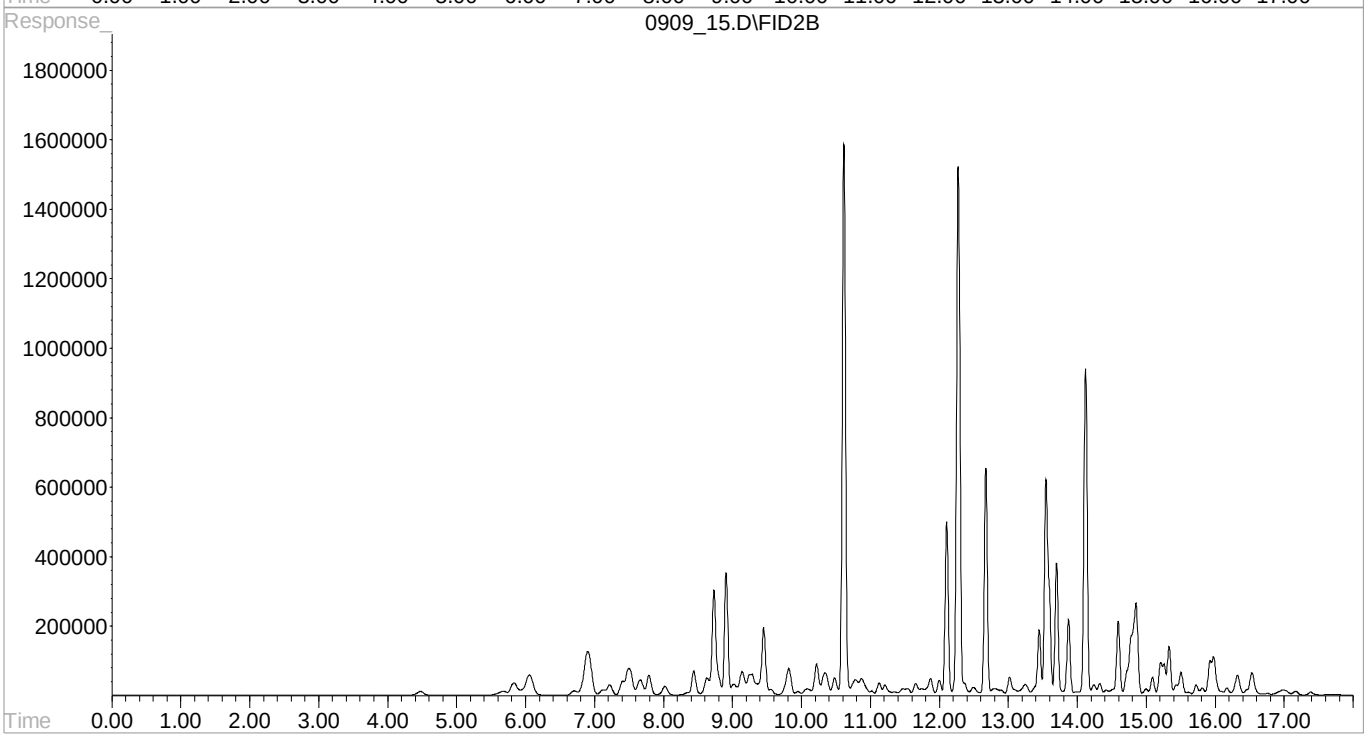
Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\090914\0909 15.D\FID1A.CH Vial: 15
Signal #2 : C:\HPCHEM\1\DATA\090914\0909 15.D\FID2B.CH
Acq On : 9 Sep 2014 6:36 pm Operator: 621
Sample : STD GRO 11 ppm 14I07115 Inst : VOCGC7
Misc : water ISSURR14C12923 Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS3.E
Quant Time: Sep 10 13:45 2014 Quant Results File: BG07I09N.RES

Quant Method : C:\HPCHEM\1\METHODS\BG07I09N.M (Chemstation Integrator)
Title : WIS GRO VOCGC07
Last Update : Wed Sep 10 13:42:46 2014
Response via : Single Level Calibration
DataAcq Meth : VOCGC14A.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Volatile Organic Compounds by Method 8260B

12065 Lebanon Rd
Mt. Juliet, TN 37122
(615) 758-5858
(800) 767-5859
Fax (615) 758-5859
Tax I.D 62-0814289
Est. 1970

Quality Control Summary
SDG: L735181

Volatile Organic Compounds by Method 8260B
URS Corporation - Tucson AZ - 1088308

Project: Holloman AFB
Project No: 23446543.0057AA

Login No: L735181

Lab SampleID.	Client ID
L735181-01	H-TU508-TRIPBLANK-TT01
L735181-02	H-TU508-MW06-NT01
L735181-03	H-TU508-MW06-ND01
L735181-04	H-TU508-MW05-ND01
L735181-05	H-TU508-MW05-NT01
L735181-06	H-TU508-MW04-ND01
L735181-07	H-TU508-MW04-NT01
L735181-08	H-TU508-MW07-NT01
L735181-09	H-TU508-MW07-ND01
L735181-10	H-TU508-MW07-NT01

I certify that this data package accurately represents the information in the raw data found herein, both technically and for completeness. Release of the data contained in this data package has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature.

Signature: _____ Name: ESC Lab Sciences

Date: _____ Title: Quality Control

12065 Lebanon Rd
Mt. Juliet, TN 37122
(615) 758-5858
(800) 767-5859
Fax (615) 758-5859
Tax I.D 62-0814289
Est. 1970

Quality Control Summary
SDG: L735181
URS Corporation - Tucson AZ - 1088308

Test:	Volatile Organic Compounds by Method 8260B		
Project No:	23446543.0057AA	Matrix:	Water - mg/L
Project:	Holloman AFB	EPA ID:	TN00003
Collection Date:	11/20/2014	**Analytic Batch:**	**WG756584**
Analysis Date:	11/26/2014	Analyst:	644
Instrument ID:	VOCMS20		
Sample Numbers:	L735181-01, -02, -05, -07, -10		

Workgroup: **WG756584**
Description: **Volatiles by Method 8260B (GW)**

Sample Name	Collect Date	Analysis Date
L735181-01 1x	11/20/2014	11/26/2014
L735181-02 1x	11/19/2014	11/26/2014
L735181-05 1x	11/19/2014	11/26/2014
L735181-07 1x	11/19/2014	11/26/2014
L735181-10 1x	11/21/2014	11/26/2014

Parameters in bold text are reported in this SDG

12065 Lebanon Rd
Mt. Juliet, TN 37122
(615) 758-5858
(800) 767-5859
Fax (615) 758-5859
Tax I.D 62-0814289
Est. 1970

Quality Control Summary
SDG: L735181
URS Corporation - Tucson AZ - 1088308

Test:	Volatile Organic Compounds by Method 8260B		
Project No:	23446543.0057AA	Matrix:	Water - mg/L
Project:	Holloman AFB	EPA ID:	TN00003
Collection Date:	11/20/2014	**Analytic Batch:**	**WG757170**
Analysis Date:	11/29/2014	Analyst:	644
Instrument ID:	VOCMS7		
Sample Numbers:	L735181-02		

Workgroup: **WG757170**
Description: **Volatiles by Method 8260B (GW)**

Sample Name	Collect Date	Analysis Date
L735181-02 1x	11/19/2014	11/29/2014

Parameters in bold text are reported in this SDG

12065 Lebanon Rd
Mt. Juliet, TN 37122
(615) 758-5858
(800) 767-5859
Fax (615) 758-5859
Tax I.D 62-0814289
Est. 1970

Quality Control Summary
SDG: L735181
URS Corporation - Tucson AZ - 1088308

Test:	Volatile Organic Compounds by Method 8260B		
Project No:	23446543.0057AA	Matrix:	Water - mg/L
Project:	Holloman AFB	EPA ID:	TN00003
Collection Date:	11/20/2014	**Analytic Batch:**	**WG756584**
Analysis Date:	11/26/2014	Analyst:	644
Instrument ID:	VOCMS20		
Sample Numbers:	L735181-01, -02, -05, -07, -10		

Method Blank Summary

Instrument	Client Sample ID	Lab Sample ID	File Name	Analysis Date	Analysis Time
VOCMS20	LCS WG756584	LCS WG756584	1125_62.D	11/25/2014	10:48 PM
VOCMS20	LCSD WG756584	LCSD WG756584	1125_63.D	11/25/2014	11:06 PM
VOCMS20	MS WG756584	MS WG756584	1125_64.D	11/25/2014	11:24 PM
VOCMS20	MSD WG756584	MSD WG756584	1125_65.D	11/25/2014	11:42 PM
VOCMS20	Blank WG756584	Blank WG756584	1125_67.D	11/26/2014	12:19 AM
VOCMS20	H-TU508-TRIPBLANK-TT01	L735181-01	1125_70.D	11/26/2014	1:14 AM
VOCMS20	H-TU508-MW06-NT01	L735181-02	1125_81.D	11/26/2014	4:34 AM
VOCMS20	H-TU508-MW05-NT01	L735181-05	1125_82.D	11/26/2014	4:53 AM
VOCMS20	H-TU508-MW04-NT01	L735181-07	1125_83.D	11/26/2014	5:11 AM
VOCMS20	H-TU508-MW07-NT01	L735181-10	1125_84.D	11/26/2014	5:29 AM

Parameters in bold text are reported in this SDG

12065 Lebanon Rd
Mt. Juliet, TN 37122
(615) 758-5858
(800) 767-5859
Fax (615) 758-5859
Tax I.D 62-0814289
Est. 1970

Quality Control Summary
SDG: L735181
URS Corporation - Tucson AZ - 1088308

Test:	Volatile Organic Compounds by Method 8260B		
Project No:	23446543.0057AA	Matrix:	Water - mg/L
Project:	Holloman AFB	EPA ID:	TN00003
Collection Date:	11/20/2014	**Analytic Batch:**	**WG757170**
Analysis Date:	11/29/2014	Analyst:	644
Instrument ID:	VOCMS7		
Sample Numbers:	L735181-02		

Method Blank Summary

Instrument	Client Sample ID	Lab Sample ID	File Name	Analysis Date	Analysis Time
VOCMS7	LCS WG757170	LCS WG757170	1129_03.D	11/29/2014	4:21 AM
VOCMS7	LCSD WG757170	LCSD WG757170	1129_04.D	11/29/2014	4:41 AM
VOCMS7	MS WG757170	MS WG757170	1129_05.D	11/29/2014	5:29 AM
VOCMS7	MSD WG757170	MSD WG757170	1129_06.D	11/29/2014	5:56 AM
VOCMS7	Blank WG757170	Blank WG757170	1129_09.D	11/29/2014	6:53 AM
VOCMS7	H-TU508-MW06-NT01	L735181-02	1129_19.D	11/29/2014	10:30 AM

Parameters in bold text are reported in this SDG

12065 Lebanon Rd
Mt. Juliet, TN 37122
(615) 758-5858
(800) 767-5859
Fax (615) 758-5859
Tax I.D 62-0814289
Est. 1970

Quality Control Summary
SDG: L735181
URS Corporation - Tucson AZ - 1088308

Test:	Volatile Organic Compounds by Method 8260B		
Project No:	23446543.0057AA	Matrix:	Water - mg/L
Project:	Holloman AFB	EPA ID:	TN00003
Collection Date:	11/20/2014	**Analytic Batch:**	**WG756584**
Analysis Date:	11/26/2014	Analyst:	644
Instrument ID:	VOCMS20		
Sample Numbers:	L735181-01, -02, -05, -07, -10		

Method Blank

Analyte	CAS	RDL	MDL	Qualifier
1,1,1,2-Tetrachloroethane	630-20-6	< 0.00100	< 0.000385	
1,1,1-Trichloroethane	71-55-6	< 0.00100	< 0.000319	
1,1,2,2-Tetrachloroethane	79-34-5	< 0.00100	< 0.000130	
1,1,2-Trichloroethane	79-00-5	< 0.00100	< 0.000383	
1,1-Dichloroethane	75-34-3	< 0.00100	< 0.000259	
1,1-Dichloroethene	75-35-4	< 0.00100	< 0.000398	
1,1-Dichloropropene	563-58-6	< 0.00100	< 0.000352	
1,2,3-Trichlorobenzene	87-61-6	< 0.00100	< 0.000230	
1,2,3-Trichloropropane	96-18-4	< 0.00250	< 0.000807	
1,2,4-Trichlorobenzene	120-82-1	< 0.00100	< 0.000214	
1,2,4-Trimethylbenzene	95-63-6	< 0.00100	< 0.000373	
1,2-Dibromo-3-Chloropropane	96-12-8	< 0.00500	< 0.00133	
1,2-Dibromoethane	106-93-4	< 0.00100	< 0.000381	
1,2-Dichlorobenzene	95-50-1	< 0.00100	< 0.000349	
1,2-Dichloroethane	107-06-2	< 0.00100	< 0.000361	
1,2-Dichloropropane	78-87-5	< 0.00100	< 0.000306	
1,3,5-Trimethylbenzene	108-67-8	< 0.00100	< 0.000387	
1,3-Dichlorobenzene	541-73-1	< 0.00100	< 0.000220	
1,3-Dichloropropane	142-28-9	< 0.00100	< 0.000366	
1,4-Dichlorobenzene	106-46-7	< 0.00100	< 0.000274	
2,2-Dichloropropane	594-20-7	< 0.00100	< 0.000321	
2-Butanone (MEK)	78-93-3	< 0.0100	< 0.00393	
2-Chlorotoluene	95-49-8	< 0.00100	< 0.000375	
2-Hexanone	591-78-6	< 0.0100	< 0.00382	
4-Chlorotoluene	106-43-4	< 0.00100	< 0.000351	
4-Methyl-2-pentanone (MIBK)	108-10-1	< 0.0100	< 0.00214	
Acetone	67-64-1	< 0.0500	< 0.0100	
Benzene	71-43-2	< 0.00100	< 0.000331	
Bromobenzene	108-86-1	< 0.00100	< 0.000352	
Bromochloromethane	74-97-5	< 0.00100	< 0.000520	
Bromodichloromethane	75-27-4	< 0.00100	< 0.000380	
Bromoform	75-25-2	< 0.00100	< 0.000469	
Bromomethane	74-83-9	< 0.00500	< 0.000866	
Carbon disulfide	75-15-0	< 0.00100	< 0.000275	
Carbon tetrachloride	56-23-5	< 0.00100	< 0.000379	
Chlorobenzene	108-90-7	< 0.00100	< 0.000348	
Chlorodibromomethane	124-48-1	< 0.00100	< 0.000327	

Parameters in bold text are reported in this SDG

12065 Lebanon Rd
Mt. Juliet, TN 37122
(615) 758-5858
(800) 767-5859
Fax (615) 758-5859
Tax I.D 62-0814289
Est. 1970

Quality Control Summary
SDG: L735181
URS Corporation - Tucson AZ - 1088308

Test:	Volatile Organic Compounds by Method 8260B		
Project No:	23446543.0057AA	Matrix:	Water - mg/L
Project:	Holloman AFB	EPA ID:	TN00003
Collection Date:	11/20/2014	**Analytic Batch:**	**WG756584**
Analysis Date:	11/26/2014	Analyst:	644
Instrument ID:	VOCMS20		
Sample Numbers:	L735181-01, -02, -05, -07, -10		

Method Blank

Analyte	CAS	RDL	MDL	Qualifier
Chloroethane	75-00-3	< 0.00500	< 0.000453	
Chloroform	67-66-3	< 0.00500	< 0.000324	
Chloromethane	74-87-3	< 0.00250	< 0.000276	
cis-1,2-Dichloroethene	156-59-2	< 0.00100	< 0.000260	
cis-1,3-Dichloropropene	10061-01-5	< 0.00100	< 0.000418	
Dibromomethane	74-95-3	< 0.00100	< 0.000346	
Dichlorodifluoromethane	75-71-8	< 0.00500	< 0.000551	
Ethylbenzene	100-41-4	< 0.00100	< 0.000384	
Hexachloro-1,3-butadiene	87-68-3	< 0.00100	< 0.000256	
Isopropylbenzene	98-82-8	< 0.00100	< 0.000326	
m&p-Xylenes	1330-20-7	< 0.00200	< 0.000719	
Methyl tert-butyl ether	1634-04-4	< 0.00100	< 0.000367	
Methylene Chloride	75-09-2	< 0.00500	< 0.00100	
Naphthalene	91-20-3	< 0.00500	< 0.00100	
n-Butylbenzene	104-51-8	< 0.00100	< 0.000361	
n-Propylbenzene	103-65-1	< 0.00100	< 0.000349	
o-Xylene	95-47-6	< 0.00100	< 0.000341	
p-Isopropyltoluene	99-87-6	< 0.00100	< 0.000350	
sec-Butylbenzene	135-98-8	< 0.00100	< 0.000365	
Styrene	100-42-5	< 0.00100	< 0.000307	
tert-Butylbenzene	98-06-6	< 0.00100	< 0.000399	
Tetrachloroethene	127-18-4	< 0.00100	< 0.000372	
Toluene	108-88-3	< 0.00500	< 0.000780	
trans-1,2-Dichloroethene	156-60-5	< 0.00100	< 0.000396	
trans-1,3-Dichloropropene	10061-02-6	< 0.00100	< 0.000419	
Trichloroethene	79-01-6	< 0.00100	< 0.000398	
Trichlorofluoromethane	75-69-4	< 0.00500	< 0.00120	
Vinyl chloride	75-01-4	< 0.00100	< 0.000259	

Parameters in bold text are reported in this SDG

12065 Lebanon Rd
Mt. Juliet, TN 37122
(615) 758-5858
(800) 767-5859
Fax (615) 758-5859
Tax I.D 62-0814289
Est. 1970

Quality Control Summary
SDG: L735181
URS Corporation - Tucson AZ - 1088308

Test:	Volatile Organic Compounds by Method 8260B		
Project No:	23446543.0057AA	Matrix:	Water - mg/L
Project:	Holloman AFB	EPA ID:	TN00003
Collection Date:	11/20/2014	**Analytic Batch:**	**WG757170**
Analysis Date:	11/29/2014	Analyst:	644
Instrument ID:	VOCMS7		
Sample Numbers:	L735181-02		

Method Blank

Analyte	CAS	RDL	MDL	Qualifier
1,1,1,2-Tetrachloroethane	630-20-6	< 0.00100	< 0.000385	
1,1,1-Trichloroethane	71-55-6	< 0.00100	< 0.000319	
1,1,2,2-Tetrachloroethane	79-34-5	< 0.00100	< 0.000130	
1,1,2-Trichloroethane	79-00-5	< 0.00100	< 0.000383	
1,1-Dichloroethane	75-34-3	< 0.00100	< 0.000259	
1,1-Dichloroethene	75-35-4	< 0.00100	< 0.000398	
1,1-Dichloropropene	563-58-6	< 0.00100	< 0.000352	
1,2,3-Trichlorobenzene	87-61-6	< 0.00100	< 0.000230	
1,2,3-Trichloropropane	96-18-4	< 0.00250	< 0.000807	
1,2,4-Trichlorobenzene	120-82-1	< 0.00100	< 0.000214	
1,2,4-Trimethylbenzene	95-63-6	< 0.00100	< 0.000373	
1,2-Dibromo-3-Chloropropane	96-12-8	< 0.00500	< 0.00133	
1,2-Dibromoethane	106-93-4	< 0.00100	< 0.000381	
1,2-Dichlorobenzene	95-50-1	< 0.00100	< 0.000349	
1,2-Dichloroethane	107-06-2	< 0.00100	< 0.000361	
1,2-Dichloropropane	78-87-5	< 0.00100	< 0.000306	
1,3,5-Trimethylbenzene	108-67-8	< 0.00100	< 0.000387	
1,3-Dichlorobenzene	541-73-1	< 0.00100	< 0.000220	
1,3-Dichloropropane	142-28-9	< 0.00100	< 0.000366	
1,4-Dichlorobenzene	106-46-7	< 0.00100	< 0.000274	
2,2-Dichloropropane	594-20-7	< 0.00100	< 0.000321	
2-Butanone (MEK)	78-93-3	< 0.0100	< 0.00393	
2-Chlorotoluene	95-49-8	< 0.00100	< 0.000375	
2-Hexanone	591-78-6	< 0.0100	< 0.00382	
4-Chlorotoluene	106-43-4	< 0.00100	< 0.000351	
4-Methyl-2-pentanone (MIBK)	108-10-1	< 0.0100	< 0.00214	
Acetone	67-64-1	< 0.0500	< 0.0100	
Benzene	71-43-2	< 0.00100	< 0.000331	
Bromobenzene	108-86-1	< 0.00100	< 0.000352	
Bromochloromethane	74-97-5	< 0.00100	< 0.000520	
Bromodichloromethane	75-27-4	< 0.00100	< 0.000380	
Bromoform	75-25-2	< 0.00100	< 0.000469	
Bromomethane	74-83-9	< 0.00500	< 0.000866	
Carbon disulfide	75-15-0	< 0.00100	< 0.000275	
Carbon tetrachloride	56-23-5	< 0.00100	< 0.000379	
Chlorobenzene	108-90-7	< 0.00100	< 0.000348	
Chlorodibromomethane	124-48-1	< 0.00100	< 0.000327	

Parameters in bold text are reported in this SDG

12065 Lebanon Rd
Mt. Juliet, TN 37122
(615) 758-5858
(800) 767-5859
Fax (615) 758-5859
Tax I.D 62-0814289
Est. 1970

Quality Control Summary
SDG: L735181
URS Corporation - Tucson AZ - 1088308

Test:	Volatile Organic Compounds by Method 8260B		
Project No:	23446543.0057AA	Matrix:	Water - mg/L
Project:	Holloman AFB	EPA ID:	TN00003
Collection Date:	11/20/2014	**Analytic Batch:**	**WG757170**
Analysis Date:	11/29/2014	Analyst:	644
Instrument ID:	VOCMS7		
Sample Numbers:	L735181-02		

Method Blank

Analyte	CAS	RDL	MDL	Qualifier
Chloroethane	75-00-3	< 0.00500	< 0.000453	
Chloroform	67-66-3	< 0.00500	< 0.000324	
Chloromethane	74-87-3	< 0.00250	< 0.000276	
cis-1,2-Dichloroethene	156-59-2	< 0.00100	< 0.000260	
cis-1,3-Dichloropropene	10061-01-5	< 0.00100	< 0.000418	
Dibromomethane	74-95-3	< 0.00100	< 0.000346	
Dichlorodifluoromethane	75-71-8	< 0.00500	< 0.000551	
Ethylbenzene	100-41-4	< 0.00100	< 0.000384	
Hexachloro-1,3-butadiene	87-68-3	< 0.00100	< 0.000256	
Isopropylbenzene	98-82-8	< 0.00100	< 0.000326	
m&p-Xylenes	1330-20-7	< 0.00200	< 0.000719	
Methyl tert-butyl ether	1634-04-4	< 0.00100	< 0.000367	
Methylene Chloride	75-09-2	< 0.00500	< 0.00100	
Naphthalene	91-20-3	< 0.00500	< 0.00100	
n-Butylbenzene	104-51-8	< 0.00100	< 0.000361	
n-Propylbenzene	103-65-1	< 0.00100	< 0.000349	
o-Xylene	95-47-6	< 0.00100	< 0.000341	
p-Isopropyltoluene	99-87-6	< 0.00100	< 0.000350	
sec-Butylbenzene	135-98-8	< 0.00100	< 0.000365	
Styrene	100-42-5	< 0.00100	< 0.000307	
tert-Butylbenzene	98-06-6	< 0.00100	< 0.000399	
Tetrachloroethene	127-18-4	< 0.00100	< 0.000372	
Toluene	108-88-3	< 0.00500	< 0.000780	
trans-1,2-Dichloroethene	156-60-5	< 0.00100	< 0.000396	
trans-1,3-Dichloropropene	10061-02-6	< 0.00100	< 0.000419	
Trichloroethene	79-01-6	< 0.00100	< 0.000398	
Trichlorofluoromethane	75-69-4	< 0.00500	< 0.00120	
Vinyl chloride	75-01-4	< 0.00100	< 0.000259	

Parameters in bold text are reported in this SDG

12065 Lebanon Rd
Mt. Juliet, TN 37122
(615) 758-5858
(800) 767-5859
Fax (615) 758-5859
Tax I.D 62-0814289
Est. 1970

Quality Control Summary
SDG: L735181
URS Corporation - Tucson AZ - 1088308

Test:	Volatile Organic Compounds by Method 8260B		
Project No:	23446543.0057AA	Matrix:	Water - mg/L
Project:	Holloman AFB	EPA ID:	TN00003
Collection Date:	11/20/2014	**Analytic Batch:**	**WG756584**
Analysis Date:	11/26/2014	Analyst:	644
Instrument ID:	VOCMS20		
Sample Numbers:	L735181-01, -02, -05, -07, -10		

Laboratory Control Sample (LCS)

Analyte	Dil	True Value	Found	% Rec	Control Limits	Qual
1,1,1,2-Tetrachloroethane	1	0.025	0.0262	105	74.2 - 124	
1,1,1-Trichloroethane	1	0.025	0.0248	99.1	73.2 - 123	
1,1,2,2-Tetrachloroethane	1	0.025	0.0273	109	70.7 - 122	
1,1,2-Trichloroethane	1	0.025	0.0258	103	77.7 - 118	
1,1-Dichloroethane	1	0.025	0.0249	99.5	70.7 - 126	
1,1-Dichloroethene	1	0.025	0.0244	97.5	67.8 - 129	
1,1-Dichloropropene	1	0.025	0.0254	101	73.1 - 125	
1,2,3-Trichlorobenzene	1	0.025	0.0274	110	64.9 - 135	
1,2,3-Trichloropropane	1	0.025	0.0260	104	71.8 - 121	
1,2,4-Trichlorobenzene	1	0.025	0.0268	107	69.7 - 136	
1,2,4-Trimethylbenzene	1	0.025	0.0276	111	75 - 123	
1,2-Dibromo-3-Chloropropane	1	0.025	0.0262	105	65.4 - 128	
1,2-Dibromoethane	1	0.025	0.0263	105	76.6 - 121	
1,2-Dichlorobenzene	1	0.025	0.0250	99.8	78.4 - 117	
1,2-Dichloroethane	1	0.025	0.0247	98.9	68.8 - 124	
1,2-Dichloropropane	1	0.025	0.0252	101	76.5 - 119	
1,3,5-Trimethylbenzene	1	0.025	0.0270	108	75.6 - 124	
1,3-Dichlorobenzene	1	0.025	0.0261	104	70.8 - 128	
1,3-Dichloropropane	1	0.025	0.0245	97.8	77.4 - 117	
1,4-Dichlorobenzene	1	0.025	0.0247	98.8	78.8 - 115	
2,2-Dichloropropane	1	0.025	0.0258	103	62.4 - 133	
2-Butanone (MEK)	1	0.125	0.1378	110	55 - 149	
2-Chlorotoluene	1	0.025	0.0257	103	74.7 - 122	
2-Hexanone	1	0.125	0.1469	118	65.6 - 144	
4-Chlorotoluene	1	0.025	0.0261	105	77.5 - 120	
4-Methyl-2-pentanone (MIBK)	1	0.125	0.1391	111	70.5 - 133	
Acetone	1	0.125	0.1233	98.6	35.6 - 163	
Benzene	1	0.025	0.0245	98	74.8 - 121	
Bromobenzene	1	0.025	0.0251	100	77.5 - 116	
Bromochloromethane	1	0.025	0.0249	99.5	77.6 - 119	
Bromodichloromethane	1	0.025	0.0250	99.9	75.1 - 116	
Bromoform	1	0.025	0.0277	111	67.5 - 130	
Bromomethane	1	0.025	0.0249	99.7	49.9 - 162	
Carbon disulfide	1	0.025	0.0252	101	64.6 - 140	
Carbon tetrachloride	1	0.025	0.0252	101	70.2 - 123	
Chlorobenzene	1	0.025	0.0256	102	78.1 - 119	

Parameters in bold text are reported in this SDG

12065 Lebanon Rd
Mt. Juliet, TN 37122
(615) 758-5858
(800) 767-5859
Fax (615) 758-5859
Tax I.D 62-0814289
Est. 1970

Quality Control Summary
SDG: L735181
URS Corporation - Tucson AZ - 1088308

Test:	Volatile Organic Compounds by Method 8260B		
Project No:	23446543.0057AA	Matrix:	Water - mg/L
Project:	Holloman AFB	EPA ID:	TN00003
Collection Date:	11/20/2014	**Analytic Batch:**	**WG756584**
Analysis Date:	11/26/2014	Analyst:	644
Instrument ID:	VOCMS20		
Sample Numbers:	L735181-01, -02, -05, -07, -10		

Laboratory Control Sample (LCS)

Analyte	Dil	True Value	Found	% Rec	Control Limits	Qual
Chlorodibromomethane	1	0.025	0.0264	106	74 - 121	
Chloroethane	1	0.025	0.0260	104	61.7 - 135	
Chloroform	1	0.025	0.0246	98.5	76 - 121	
Chloromethane	1	0.025	0.0236	94.5	61.5 - 129	
cis-1,2-Dichloroethene	1	0.025	0.0255	102	76 - 119	
cis-1,3-Dichloropropene	1	0.025	0.0260	104	78.2 - 120	
Dibromomethane	1	0.025	0.0262	105	79.5 - 118	
Dichlorodifluoromethane	1	0.025	0.0235	94.1	54.8 - 135	
Ethylbenzene	1	0.025	0.0270	108	78.8 - 122	
Hexachloro-1,3-butadiene	1	0.025	0.0269	107	64.7 - 129	
Isopropylbenzene	1	0.025	0.0277	111	78.6 - 132	
m&p-Xylenes	1	0.05	0.0537	107	78.8 - 121	
Methyl tert-butyl ether	1	0.025	0.0259	103	71.2 - 126	
Methylene Chloride	1	0.025	0.0256	103	70.3 - 120	
Naphthalene	1	0.025	0.0270	108	68.4 - 128	
n-Butylbenzene	1	0.025	0.0262	105	76.2 - 126	
n-Propylbenzene	1	0.025	0.0261	104	78.2 - 122	
o-Xylene	1	0.025	0.0275	110	77.6 - 122	
p-Isopropyltoluene	1	0.025	0.0287	115	74 - 131	
sec-Butylbenzene	1	0.025	0.0276	110	74.4 - 127	
Styrene	1	0.025	0.0275	110	80.4 - 126	
tert-Butylbenzene	1	0.025	0.0278	111	75.3 - 126	
Tetrachloroethene	1	0.025	0.0257	103	72.6 - 126	
Toluene	1	0.025	0.0231	92.2	79.7 - 116	
trans-1,2-Dichloroethene	1	0.025	0.0248	99.3	72.6 - 121	
trans-1,3-Dichloropropene	1	0.025	0.0265	106	74.3 - 123	
Trichloroethene	1	0.025	0.0249	99.6	77.7 - 118	
Trichlorofluoromethane	1	0.025	0.0250	100	63.5 - 135	
Vinyl chloride	1	0.025	0.0245	98.1	65.9 - 128	

Parameters in bold text are reported in this SDG

12065 Lebanon Rd
Mt. Juliet, TN 37122
(615) 758-5858
(800) 767-5859
Fax (615) 758-5859
Tax I.D 62-0814289
Est. 1970

Quality Control Summary
SDG: L735181
URS Corporation - Tucson AZ - 1088308

Test:	Volatile Organic Compounds by Method 8260B		
Project No:	23446543.0057AA	Matrix:	Water - mg/L
Project:	Holloman AFB	EPA ID:	TN00003
Collection Date:	11/20/2014	**Analytic Batch:**	**WG756584**
Analysis Date:	11/26/2014	Analyst:	644
Instrument ID:	VOCMS20		
Sample Numbers:	L735181-01, -02, -05, -07, -10		

Laboratory Control Sample Duplicate (LCSD)

Analyte	Dil	True Value	Found	% Rec	Control Limits	Qual
1,1,1,2-Tetrachloroethane	1	0.025	0.0258	103	74.2 - 124	
1,1,1-Trichloroethane	1	0.025	0.0242	96.9	73.2 - 123	
1,1,2,2-Tetrachloroethane	1	0.025	0.0268	107	70.7 - 122	
1,1,2-Trichloroethane	1	0.025	0.0252	101	77.7 - 118	
1,1-Dichloroethane	1	0.025	0.0248	99.1	70.7 - 126	
1,1-Dichloroethene	1	0.025	0.0240	96	67.8 - 129	
1,1-Dichloropropene	1	0.025	0.0251	101	73.1 - 125	
1,2,3-Trichlorobenzene	1	0.025	0.0266	106	64.9 - 135	
1,2,3-Trichloropropane	1	0.025	0.0264	106	71.8 - 121	
1,2,4-Trichlorobenzene	1	0.025	0.0263	105	69.7 - 136	
1,2,4-Trimethylbenzene	1	0.025	0.0271	108	75 - 123	
1,2-Dibromo-3-Chloropropane	1	0.025	0.0269	107	65.4 - 128	
1,2-Dibromoethane	1	0.025	0.0260	104	76.6 - 121	
1,2-Dichlorobenzene	1	0.025	0.0251	100	78.4 - 117	
1,2-Dichloroethane	1	0.025	0.0244	97.7	68.8 - 124	
1,2-Dichloropropane	1	0.025	0.0252	101	76.5 - 119	
1,3,5-Trimethylbenzene	1	0.025	0.0265	106	75.6 - 124	
1,3-Dichlorobenzene	1	0.025	0.0261	104	70.8 - 128	
1,3-Dichloropropane	1	0.025	0.0245	98.2	77.4 - 117	
1,4-Dichlorobenzene	1	0.025	0.0242	96.8	78.8 - 115	
2,2-Dichloropropane	1	0.025	0.0245	97.8	62.4 - 133	
2-Butanone (MEK)	1	0.125	0.1355	108	55 - 149	
2-Chlorotoluene	1	0.025	0.0253	101	74.7 - 122	
2-Hexanone	1	0.125	0.1400	112	65.6 - 144	
4-Chlorotoluene	1	0.025	0.0259	104	77.5 - 120	
4-Methyl-2-pentanone (MIBK)	1	0.125	0.1381	111	70.5 - 133	
Acetone	1	0.125	0.1258	101	35.6 - 163	
Benzene	1	0.025	0.0243	97.1	74.8 - 121	
Bromobenzene	1	0.025	0.0247	98.7	77.5 - 116	
Bromochloromethane	1	0.025	0.0249	99.7	77.6 - 119	
Bromodichloromethane	1	0.025	0.0248	99	75.1 - 116	
Bromoform	1	0.025	0.0270	108	67.5 - 130	
Bromomethane	1	0.025	0.0241	96.3	49.9 - 162	
Carbon disulfide	1	0.025	0.0244	97.5	64.6 - 140	
Carbon tetrachloride	1	0.025	0.0236	94.5	70.2 - 123	
Chlorobenzene	1	0.025	0.0250	100	78.1 - 119	

Parameters in bold text are reported in this SDG

12065 Lebanon Rd
Mt. Juliet, TN 37122
(615) 758-5858
(800) 767-5859
Fax (615) 758-5859
Tax I.D 62-0814289
Est. 1970

Quality Control Summary
SDG: L735181
URS Corporation - Tucson AZ - 1088308

Test:	Volatile Organic Compounds by Method 8260B		
Project No:	23446543.0057AA	Matrix:	Water - mg/L
Project:	Holloman AFB	EPA ID:	TN00003
Collection Date:	11/20/2014	**Analytic Batch:**	**WG756584**
Analysis Date:	11/26/2014	Analyst:	644
Instrument ID:	VOCMS20		
Sample Numbers:	L735181-01, -02, -05, -07, -10		

Laboratory Control Sample Duplicate (LCSD)

Analyte	Dil	True Value	Found	% Rec	Control Limits	Qual
Chlorodibromomethane	1	0.025	0.0261	104	74 - 121	
Chloroethane	1	0.025	0.0248	99.3	61.7 - 135	
Chloroform	1	0.025	0.0247	98.8	76 - 121	
Chloromethane	1	0.025	0.0234	93.6	61.5 - 129	
cis-1,2-Dichloroethene	1	0.025	0.0249	99.6	76 - 119	
cis-1,3-Dichloropropene	1	0.025	0.0260	104	78.2 - 120	
Dibromomethane	1	0.025	0.0259	104	79.5 - 118	
Dichlorodifluoromethane	1	0.025	0.0230	91.9	54.8 - 135	
Ethylbenzene	1	0.025	0.0266	107	78.8 - 122	
Hexachloro-1,3-butadiene	1	0.025	0.0260	104	64.7 - 129	
Isopropylbenzene	1	0.025	0.0270	108	78.6 - 132	
m&p-Xylenes	1	0.05	0.0530	106	78.8 - 121	
Methyl tert-butyl ether	1	0.025	0.0258	103	71.2 - 126	
Methylene Chloride	1	0.025	0.0258	103	70.3 - 120	
Naphthalene	1	0.025	0.0263	105	68.4 - 128	
n-Butylbenzene	1	0.025	0.0257	103	76.2 - 126	
n-Propylbenzene	1	0.025	0.0255	102	78.2 - 122	
o-Xylene	1	0.025	0.0269	107	77.6 - 122	
p-Isopropyltoluene	1	0.025	0.0278	111	74 - 131	
sec-Butylbenzene	1	0.025	0.0274	110	74.4 - 127	
Styrene	1	0.025	0.0267	107	80.4 - 126	
tert-Butylbenzene	1	0.025	0.0274	110	75.3 - 126	
Tetrachloroethene	1	0.025	0.0254	102	72.6 - 126	
Toluene	1	0.025	0.0233	93.1	79.7 - 116	
trans-1,2-Dichloroethene	1	0.025	0.0241	96.3	72.6 - 121	
trans-1,3-Dichloropropene	1	0.025	0.0268	107	74.3 - 123	
Trichloroethene	1	0.025	0.0251	100	77.7 - 118	
Trichlorofluoromethane	1	0.025	0.0240	96.2	63.5 - 135	
Vinyl chloride	1	0.025	0.0238	95.2	65.9 - 128	

Parameters in bold text are reported in this SDG

12065 Lebanon Rd
Mt. Juliet, TN 37122
(615) 758-5858
(800) 767-5859
Fax (615) 758-5859
Tax I.D 62-0814289
Est. 1970

Quality Control Summary
SDG: L735181
URS Corporation - Tucson AZ - 1088308

Test:	Volatile Organic Compounds by Method 8260B		
Project No:	23446543.0057AA	Matrix:	Water - mg/L
Project:	Holloman AFB	EPA ID:	TN00003
Collection Date:	11/20/2014	**Analytic Batch:**	**WG756584**
Analysis Date:	11/26/2014	Analyst:	644
Instrument ID:	VOCMS20		
Sample Numbers:	L735181-01, -02, -05, -07, -10		

Laboratory Control Sample / Laboratory Control Sample Duplicate

Analyte	Dil	Spike	LCS	% Rec	LCSD	% Rec	Control Limits	% Rec Qual	% RPD	Control Limits	RPD Qual
1,1,1,2-Tetrachloroethane	1	0.025	0.0262	105	0.0258	103	74.2 - 124		1.47	20	
1,1,1-Trichloroethane	1	0.025	0.0248	99.1	0.0242	96.9	73.2 - 123		2.32	20	
1,1,2,2-Tetrachloroethane	1	0.025	0.0273	109	0.0268	107	70.7 - 122		2.08	20	
1,1,2-Trichloroethane	1	0.025	0.0258	103	0.0252	101	77.7 - 118		2.43	20	
1,1-Dichloroethane	1	0.025	0.0249	99.5	0.0248	99.1	70.7 - 126		0.39	20	
1,1-Dichloroethene	1	0.025	0.0244	97.5	0.0240	96	67.8 - 129		1.47	20	
1,1-Dichloropropene	1	0.025	0.0254	101	0.0251	101	73.1 - 125		0.85	20	
1,2,3-Trichlorobenzene	1	0.025	0.0274	110	0.0266	106	64.9 - 135		3.02	20	
1,2,3-Trichloropropane	1	0.025	0.0260	104	0.0264	106	71.8 - 121		1.68	20	
1,2,4-Trichlorobenzene	1	0.025	0.0268	107	0.0263	105	69.7 - 136		1.94	20	
1,2,4-Trimethylbenzene	1	0.025	0.0276	111	0.0271	108	75 - 123		1.96	20	
1,2-Dibromo-3-Chloropropane	1	0.025	0.0262	105	0.0269	107	65.4 - 128		2.65	20	
1,2-Dibromoethane	1	0.025	0.0263	105	0.0260	104	76.6 - 121		1.2	20	
1,2-Dichlorobenzene	1	0.025	0.0250	99.8	0.0251	100	78.4 - 117		0.38	20	
1,2-Dichloroethane	1	0.025	0.0247	98.9	0.0244	97.7	68.8 - 124		1.19	20	
1,2-Dichloropropane	1	0.025	0.0252	101	0.0252	101	76.5 - 119		0.38	20	
1,3,5-Trimethylbenzene	1	0.025	0.0270	108	0.0265	106	75.6 - 124		2.06	20	
1,3-Dichlorobenzene	1	0.025	0.0261	104	0.0261	104	70.8 - 128		0.03	20	
1,3-Dichloropropane	1	0.025	0.0245	97.8	0.0245	98.2	77.4 - 117		0.32	20	
1,4-Dichlorobenzene	1	0.025	0.0247	98.8	0.0242	96.8	78.8 - 115		2.06	20	
2,2-Dichloropropane	1	0.025	0.0258	103	0.0245	97.8	62.4 - 133		5.28	20	
2-Butanone (MEK)	1	0.125	0.1378	110	0.1355	108	55 - 149		1.7	20	
2-Chlorotoluene	1	0.025	0.0257	103	0.0253	101	74.7 - 122		1.68	20	
2-Hexanone	1	0.125	0.1469	118	0.1400	112	65.6 - 144		4.84	20	
4-Chlorotoluene	1	0.025	0.0261	105	0.0259	104	77.5 - 120		0.95	20	
4-Methyl-2-pentanone (MIBK)	1	0.125	0.1391	111	0.1381	111	70.5 - 133		0.73	20	
Acetone	1	0.125	0.1233	98.6	0.1258	101	35.6 - 163		2	23.9	
Benzene	1	0.025	0.0245	98	0.0243	97.1	74.8 - 121		0.9	20	
Bromobenzene	1	0.025	0.0251	100	0.0247	98.7	77.5 - 116		1.71	20	
Bromochloromethane	1	0.025	0.0249	99.5	0.0249	99.7	77.6 - 119		0.11	20	
Bromodichloromethane	1	0.025	0.0250	99.9	0.0248	99	75.1 - 116		0.87	20	
Bromoform	1	0.025	0.0277	111	0.0270	108	67.5 - 130		2.63	20	
Bromomethane	1	0.025	0.0249	99.7	0.0241	96.3	49.9 - 162		3.52	20	
Carbon disulfide	1	0.025	0.0252	101	0.0244	97.5	64.6 - 140		3.45	20	
Carbon tetrachloride	1	0.025	0.0252	101	0.0236	94.5	70.2 - 123		6.53	20	
Chlorobenzene	1	0.025	0.0256	102	0.0250	100	78.1 - 119		2.3	20	

Parameters in bold text are reported in this SDG

12065 Lebanon Rd
Mt. Juliet, TN 37122
(615) 758-5858
(800) 767-5859
Fax (615) 758-5859
Tax I.D 62-0814289
Est. 1970

Quality Control Summary
SDG: L735181
URS Corporation - Tucson AZ - 1088308

Test:	Volatile Organic Compounds by Method 8260B		
Project No:	23446543.0057AA	Matrix:	Water - mg/L
Project:	Holloman AFB	EPA ID:	TN00003
Collection Date:	11/20/2014	**Analytic Batch:**	**WG756584**
Analysis Date:	11/26/2014	Analyst:	644
Instrument ID:	VOCMS20		
Sample Numbers:	L735181-01, -02, -05, -07, -10		

Laboratory Control Sample / Laboratory Control Sample Duplicate

Analyte	Dil	Spike	LCS	% Rec	LCSD	% Rec	Control Limits	% Rec Qual	% RPD	Control Limits	RPD Qual
Chlorodibromomethane	1	0.025	0.0264	106	0.0261	104	74 - 121		1.14	20	
Chloroethane	1	0.025	0.0260	104	0.0248	99.3	61.7 - 135		4.45	20	
Chloroform	1	0.025	0.0246	98.5	0.0247	98.8	76 - 121		0.28	20	
Chloromethane	1	0.025	0.0236	94.5	0.0234	93.6	61.5 - 129		0.94	20	
cis-1,2-Dichloroethene	1	0.025	0.0255	102	0.0249	99.6	76 - 119		2.3	20	
cis-1,3-Dichloropropene	1	0.025	0.0260	104	0.0260	104	78.2 - 120		0.34	20	
Dibromomethane	1	0.025	0.0262	105	0.0259	104	79.5 - 118		1.25	20	
Dichlorodifluoromethane	1	0.025	0.0235	94.1	0.0230	91.9	54.8 - 135		2.42	20	
Ethylbenzene	1	0.025	0.0270	108	0.0266	107	78.8 - 122		1.24	20	
Hexachloro-1,3-butadiene	1	0.025	0.0269	107	0.0260	104	64.7 - 129		3.26	20	
Isopropylbenzene	1	0.025	0.0277	111	0.0270	108	78.6 - 132		2.21	20	
m&p-Xylenes	1	0.05	0.0537	107	0.0530	106	78.8 - 121		1.32	20	
Methyl tert-butyl ether	1	0.025	0.0259	103	0.0258	103	71.2 - 126		0.29	20	
Methylene Chloride	1	0.025	0.0256	103	0.0258	103	70.3 - 120		0.49	20	
Naphthalene	1	0.025	0.0270	108	0.0263	105	68.4 - 128		2.64	20	
n-Butylbenzene	1	0.025	0.0262	105	0.0257	103	76.2 - 126		1.68	20	
n-Propylbenzene	1	0.025	0.0261	104	0.0255	102	78.2 - 122		2.2	20	
o-Xylene	1	0.025	0.0275	110	0.0269	107	77.6 - 122		2.25	20	
p-Isopropyltoluene	1	0.025	0.0287	115	0.0278	111	74 - 131		3	20	
sec-Butylbenzene	1	0.025	0.0276	110	0.0274	110	74.4 - 127		0.88	20	
Styrene	1	0.025	0.0275	110	0.0267	107	80.4 - 126		3.01	20	
tert-Butylbenzene	1	0.025	0.0278	111	0.0274	110	75.3 - 126		1.63	20	
Tetrachloroethene	1	0.025	0.0257	103	0.0254	102	72.6 - 126		1.36	20	
Toluene	1	0.025	0.0231	92.2	0.0233	93.1	79.7 - 116		0.91	20	
trans-1,2-Dichloroethene	1	0.025	0.0248	99.3	0.0241	96.3	72.6 - 121		3.03	20	
trans-1,3-Dichloropropene	1	0.025	0.0265	106	0.0268	107	74.3 - 123		1.22	20	
Trichloroethene	1	0.025	0.0249	99.6	0.0251	100	77.7 - 118		0.77	20	
Trichlorofluoromethane	1	0.025	0.0250	100	0.0240	96.2	63.5 - 135		3.91	20	
Vinyl chloride	1	0.025	0.0245	98.1	0.0238	95.2	65.9 - 128		3.02	20	

Parameters in bold text are reported in this SDG

12065 Lebanon Rd
Mt. Juliet, TN 37122
(615) 758-5858
(800) 767-5859
Fax (615) 758-5859
Tax I.D 62-0814289
Est. 1970

Quality Control Summary
SDG: L735181
URS Corporation - Tucson AZ - 1088308

Test:	Volatile Organic Compounds by Method 8260B		
Project No:	23446543.0057AA	Matrix:	Water - mg/L
Project:	Holloman AFB	EPA ID:	TN00003
Collection Date:	11/20/2014	**Analytic Batch:**	**WG757170**
Analysis Date:	11/29/2014	Analyst:	644
Instrument ID:	VOCMS7		
Sample Numbers:	L735181-02		

Laboratory Control Sample (LCS)

Analyte	Dil	True Value	Found	% Rec	Control Limits	Qual
1,1,1,2-Tetrachloroethane	1	0.025	0.0282	113	74.2 - 124	
1,1,1-Trichloroethane	1	0.025	0.0226	90.4	73.2 - 123	
1,1,2,2-Tetrachloroethane	1	0.025	0.0237	94.8	70.7 - 122	
1,1,2-Trichloroethane	1	0.025	0.0250	100	77.7 - 118	
1,1-Dichloroethane	1	0.025	0.0234	93.5	70.7 - 126	
1,1-Dichloroethene	1	0.025	0.0244	97.4	67.8 - 129	
1,1-Dichloropropene	1	0.025	0.0237	94.9	73.1 - 125	
1,2,3-Trichlorobenzene	1	0.025	0.0288	115	64.9 - 135	
1,2,3-Trichloropropane	1	0.025	0.0270	108	71.8 - 121	
1,2,4-Trichlorobenzene	1	0.025	0.0291	116	69.7 - 136	
1,2,4-Trimethylbenzene	1	0.025	0.0262	105	75 - 123	
1,2-Dibromo-3-Chloropropane	1	0.025	0.0276	110	65.4 - 128	
1,2-Dibromoethane	1	0.025	0.0276	110	76.6 - 121	
1,2-Dichlorobenzene	1	0.025	0.0272	109	78.4 - 117	
1,2-Dichloroethane	1	0.025	0.0244	97.8	68.8 - 124	
1,2-Dichloropropane	1	0.025	0.0241	96.5	76.5 - 119	
1,3,5-Trimethylbenzene	1	0.025	0.0271	108	75.6 - 124	
1,3-Dichlorobenzene	1	0.025	0.0275	110	70.8 - 128	
1,3-Dichloropropane	1	0.025	0.0256	102	77.4 - 117	
1,4-Dichlorobenzene	1	0.025	0.0270	108	78.8 - 115	
2,2-Dichloropropane	1	0.025	0.0238	95.1	62.4 - 133	
2-Butanone (MEK)	1	0.125	0.1258	101	55 - 149	
2-Chlorotoluene	1	0.025	0.0274	110	74.7 - 122	
2-Hexanone	1	0.125	0.1354	108	65.6 - 144	
4-Chlorotoluene	1	0.025	0.0260	104	77.5 - 120	
4-Methyl-2-pentanone (MIBK)	1	0.125	0.1170	93.6	70.5 - 133	
Acetone	1	0.125	0.1409	113	35.6 - 163	
Benzene	1	0.025	0.0220	88	74.8 - 121	
Bromobenzene	1	0.025	0.0257	103	77.5 - 116	
Bromochloromethane	1	0.025	0.0250	100	77.6 - 119	
Bromodichloromethane	1	0.025	0.0236	94.3	75.1 - 116	
Bromoform	1	0.025	0.0267	107	67.5 - 130	
Bromomethane	1	0.025	0.0306	122	49.9 - 162	
Carbon disulfide	1	0.025	0.0224	89.6	64.6 - 140	
Carbon tetrachloride	1	0.025	0.0249	99.7	70.2 - 123	
Chlorobenzene	1	0.025	0.0281	112	78.1 - 119	

Parameters in bold text are reported in this SDG

12065 Lebanon Rd
Mt. Juliet, TN 37122
(615) 758-5858
(800) 767-5859
Fax (615) 758-5859
Tax I.D 62-0814289
Est. 1970

Quality Control Summary
SDG: L735181
URS Corporation - Tucson AZ - 1088308

Test:	Volatile Organic Compounds by Method 8260B		
Project No:	23446543.0057AA	Matrix:	Water - mg/L
Project:	Holloman AFB	EPA ID:	TN00003
Collection Date:	11/20/2014	**Analytic Batch:**	**WG757170**
Analysis Date:	11/29/2014	Analyst:	644
Instrument ID:	VOCMS7		
Sample Numbers:	L735181-02		

Laboratory Control Sample (LCS)

Analyte	Dil	True Value	Found	% Rec	Control Limits	Qual
Chlorodibromomethane	1	0.025	0.0282	113	74 - 121	
Chloroethane	1	0.025	0.0247	98.8	61.7 - 135	
Chloroform	1	0.025	0.0223	89.1	76 - 121	
Chloromethane	1	0.025	0.0236	94.5	61.5 - 129	
cis-1,2-Dichloroethene	1	0.025	0.0228	91.3	76 - 119	
cis-1,3-Dichloropropene	1	0.025	0.0245	98.1	78.2 - 120	
Dibromomethane	1	0.025	0.0254	101	79.5 - 118	
Dichlorodifluoromethane	1	0.025	0.0214	85.7	54.8 - 135	
Ethylbenzene	1	0.025	0.0276	110	78.8 - 122	
Hexachloro-1,3-butadiene	1	0.025	0.0294	118	64.7 - 129	
Isopropylbenzene	1	0.025	0.0270	108	78.6 - 132	
m&p-Xylenes	1	0.05	0.0524	105	78.8 - 121	
Methyl tert-butyl ether	1	0.025	0.0232	92.8	71.2 - 126	
Methylene Chloride	1	0.025	0.0215	85.9	70.3 - 120	
Naphthalene	1	0.025	0.0277	111	68.4 - 128	
n-Butylbenzene	1	0.025	0.0257	103	76.2 - 126	
n-Propylbenzene	1	0.025	0.0267	107	78.2 - 122	
o-Xylene	1	0.025	0.0270	108	77.6 - 122	
p-Isopropyltoluene	1	0.025	0.0276	110	74 - 131	
sec-Butylbenzene	1	0.025	0.0270	108	74.4 - 127	
Styrene	1	0.025	0.0270	108	80.4 - 126	
tert-Butylbenzene	1	0.025	0.0279	112	75.3 - 126	
Tetrachloroethene	1	0.025	0.0285	114	72.6 - 126	
Toluene	1	0.025	0.0233	93.4	79.7 - 116	
trans-1,2-Dichloroethene	1	0.025	0.0225	90.2	72.6 - 121	
trans-1,3-Dichloropropene	1	0.025	0.0244	97.4	74.3 - 123	
Trichloroethene	1	0.025	0.0267	107	77.7 - 118	
Trichlorofluoromethane	1	0.025	0.0264	106	63.5 - 135	
Vinyl chloride	1	0.025	0.0244	97.6	65.9 - 128	

Parameters in bold text are reported in this SDG

12065 Lebanon Rd
Mt. Juliet, TN 37122
(615) 758-5858
(800) 767-5859
Fax (615) 758-5859
Tax I.D 62-0814289
Est. 1970

Quality Control Summary
SDG: L735181
URS Corporation - Tucson AZ - 1088308

Test:	Volatile Organic Compounds by Method 8260B		
Project No:	23446543.0057AA	Matrix:	Water - mg/L
Project:	Holloman AFB	EPA ID:	TN00003
Collection Date:	11/20/2014	**Analytic Batch:**	**WG757170**
Analysis Date:	11/29/2014	Analyst:	644
Instrument ID:	VOCMS7		
Sample Numbers:	L735181-02		

Laboratory Control Sample Duplicate (LCSD)

Analyte	Dil	True Value	Found	% Rec	Control Limits	Qual
1,1,1,2-Tetrachloroethane	1	0.025	0.0272	109	74.2 - 124	
1,1,1-Trichloroethane	1	0.025	0.0223	89.2	73.2 - 123	
1,1,2,2-Tetrachloroethane	1	0.025	0.0226	90.3	70.7 - 122	
1,1,2-Trichloroethane	1	0.025	0.0244	97.6	77.7 - 118	
1,1-Dichloroethane	1	0.025	0.0232	93	70.7 - 126	
1,1-Dichloroethene	1	0.025	0.0238	95.1	67.8 - 129	
1,1-Dichloropropene	1	0.025	0.0236	94.4	73.1 - 125	
1,2,3-Trichlorobenzene	1	0.025	0.0286	115	64.9 - 135	
1,2,3-Trichloropropane	1	0.025	0.0251	100	71.8 - 121	
1,2,4-Trichlorobenzene	1	0.025	0.0290	116	69.7 - 136	
1,2,4-Trimethylbenzene	1	0.025	0.0254	102	75 - 123	
1,2-Dibromo-3-Chloropropane	1	0.025	0.0282	113	65.4 - 128	
1,2-Dibromoethane	1	0.025	0.0269	108	76.6 - 121	
1,2-Dichlorobenzene	1	0.025	0.0267	107	78.4 - 117	
1,2-Dichloroethane	1	0.025	0.0243	97	68.8 - 124	
1,2-Dichloropropane	1	0.025	0.0234	93.4	76.5 - 119	
1,3,5-Trimethylbenzene	1	0.025	0.0263	105	75.6 - 124	
1,3-Dichlorobenzene	1	0.025	0.0270	108	70.8 - 128	
1,3-Dichloropropane	1	0.025	0.0252	101	77.4 - 117	
1,4-Dichlorobenzene	1	0.025	0.0270	108	78.8 - 115	
2,2-Dichloropropane	1	0.025	0.0233	93.3	62.4 - 133	
2-Butanone (MEK)	1	0.125	0.1235	98.8	55 - 149	
2-Chlorotoluene	1	0.025	0.0262	105	74.7 - 122	
2-Hexanone	1	0.125	0.1310	105	65.6 - 144	
4-Chlorotoluene	1	0.025	0.0257	103	77.5 - 120	
4-Methyl-2-pentanone (MIBK)	1	0.125	0.1156	92.5	70.5 - 133	
Acetone	1	0.125	0.1368	109	35.6 - 163	
Benzene	1	0.025	0.0216	86.5	74.8 - 121	
Bromobenzene	1	0.025	0.0248	99.4	77.5 - 116	
Bromochloromethane	1	0.025	0.0241	96.3	77.6 - 119	
Bromodichloromethane	1	0.025	0.0230	92	75.1 - 116	
Bromoform	1	0.025	0.0263	105	67.5 - 130	
Bromomethane	1	0.025	0.0290	116	49.9 - 162	
Carbon disulfide	1	0.025	0.0222	88.8	64.6 - 140	
Carbon tetrachloride	1	0.025	0.0242	96.9	70.2 - 123	
Chlorobenzene	1	0.025	0.0266	106	78.1 - 119	

Parameters in bold text are reported in this SDG

12065 Lebanon Rd
Mt. Juliet, TN 37122
(615) 758-5858
(800) 767-5859
Fax (615) 758-5859
Tax I.D 62-0814289
Est. 1970

Quality Control Summary
SDG: L735181
URS Corporation - Tucson AZ - 1088308

Test:	Volatile Organic Compounds by Method 8260B		
Project No:	23446543.0057AA	Matrix:	Water - mg/L
Project:	Holloman AFB	EPA ID:	TN00003
Collection Date:	11/20/2014	**Analytic Batch:**	**WG757170**
Analysis Date:	11/29/2014	Analyst:	644
Instrument ID:	VOCMS7		
Sample Numbers:	L735181-02		

Laboratory Control Sample Duplicate (LCSD)

Analyte	Dil	True Value	Found	% Rec	Control Limits	Qual
Chlorodibromomethane	1	0.025	0.0269	107	74 - 121	
Chloroethane	1	0.025	0.0226	90.5	61.7 - 135	
Chloroform	1	0.025	0.0212	84.8	76 - 121	
Chloromethane	1	0.025	0.0226	90.6	61.5 - 129	
cis-1,2-Dichloroethene	1	0.025	0.0220	88.2	76 - 119	
cis-1,3-Dichloropropene	1	0.025	0.0243	97.2	78.2 - 120	
Dibromomethane	1	0.025	0.0246	98.3	79.5 - 118	
Dichlorodifluoromethane	1	0.025	0.0207	83	54.8 - 135	
Ethylbenzene	1	0.025	0.0269	107	78.8 - 122	
Hexachloro-1,3-butadiene	1	0.025	0.0293	117	64.7 - 129	
Isopropylbenzene	1	0.025	0.0265	106	78.6 - 132	
m&p-Xylenes	1	0.05	0.0509	102	78.8 - 121	
Methyl tert-butyl ether	1	0.025	0.0225	89.9	71.2 - 126	
Methylene Chloride	1	0.025	0.0213	85.3	70.3 - 120	
Naphthalene	1	0.025	0.0272	109	68.4 - 128	
n-Butylbenzene	1	0.025	0.0257	103	76.2 - 126	
n-Propylbenzene	1	0.025	0.0260	104	78.2 - 122	
o-Xylene	1	0.025	0.0262	105	77.6 - 122	
p-Isopropyltoluene	1	0.025	0.0268	107	74 - 131	
sec-Butylbenzene	1	0.025	0.0261	104	74.4 - 127	
Styrene	1	0.025	0.0261	104	80.4 - 126	
tert-Butylbenzene	1	0.025	0.0269	108	75.3 - 126	
Tetrachloroethene	1	0.025	0.0280	112	72.6 - 126	
Toluene	1	0.025	0.0230	91.9	79.7 - 116	
trans-1,2-Dichloroethene	1	0.025	0.0222	88.7	72.6 - 121	
trans-1,3-Dichloropropene	1	0.025	0.0239	95.5	74.3 - 123	
Trichloroethene	1	0.025	0.0266	106	77.7 - 118	
Trichlorofluoromethane	1	0.025	0.0261	104	63.5 - 135	
Vinyl chloride	1	0.025	0.0237	94.6	65.9 - 128	

Parameters in bold text are reported in this SDG

12065 Lebanon Rd
Mt. Juliet, TN 37122
(615) 758-5858
(800) 767-5859
Fax (615) 758-5859
Tax I.D 62-0814289
Est. 1970

Quality Control Summary
SDG: L735181
URS Corporation - Tucson AZ - 1088308

Test:	Volatile Organic Compounds by Method 8260B		
Project No:	23446543.0057AA	Matrix:	Water - mg/L
Project:	Holloman AFB	EPA ID:	TN00003
Collection Date:	11/20/2014	**Analytic Batch:**	**WG757170**
Analysis Date:	11/29/2014	Analyst:	644
Instrument ID:	VOCMS7		
Sample Numbers:	L735181-02		

Laboratory Control Sample / Laboratory Control Sample Duplicate

Analyte	Dil	Spike	LCS	% Rec	LCSD	% Rec	Control Limits	% Rec Qual	% RPD	Control Limits	RPD Qual
1,1,1,2-Tetrachloroethane	1	0.025	0.0282	113	0.0272	109	74.2 - 124		3.55	20	
1,1,1-Trichloroethane	1	0.025	0.0226	90.4	0.0223	89.2	73.2 - 123		1.36	20	
1,1,2,2-Tetrachloroethane	1	0.025	0.0237	94.8	0.0226	90.3	70.7 - 122		4.81	20	
1,1,2-Trichloroethane	1	0.025	0.0250	100	0.0244	97.6	77.7 - 118		2.43	20	
1,1-Dichloroethane	1	0.025	0.0234	93.5	0.0232	93	70.7 - 126		0.61	20	
1,1-Dichloroethene	1	0.025	0.0244	97.4	0.0238	95.1	67.8 - 129		2.41	20	
1,1-Dichloropropene	1	0.025	0.0237	94.9	0.0236	94.4	73.1 - 125		0.52	20	
1,2,3-Trichlorobenzene	1	0.025	0.0288	115	0.0286	115	64.9 - 135		0.54	20	
1,2,3-Trichloropropane	1	0.025	0.0270	108	0.0251	100	71.8 - 121		7.17	20	
1,2,4-Trichlorobenzene	1	0.025	0.0291	116	0.0290	116	69.7 - 136		0.34	20	
1,2,4-Trimethylbenzene	1	0.025	0.0262	105	0.0254	102	75 - 123		3.02	20	
1,2-Dibromo-3-Chloropropane	1	0.025	0.0276	110	0.0282	113	65.4 - 128		1.96	20	
1,2-Dibromoethane	1	0.025	0.0276	110	0.0269	108	76.6 - 121		2.5	20	
1,2-Dichlorobenzene	1	0.025	0.0272	109	0.0267	107	78.4 - 117		2.02	20	
1,2-Dichloroethane	1	0.025	0.0244	97.8	0.0243	97	68.8 - 124		0.79	20	
1,2-Dichloropropane	1	0.025	0.0241	96.5	0.0234	93.4	76.5 - 119		3.26	20	
1,3,5-Trimethylbenzene	1	0.025	0.0271	108	0.0263	105	75.6 - 124		2.74	20	
1,3-Dichlorobenzene	1	0.025	0.0275	110	0.0270	108	70.8 - 128		1.88	20	
1,3-Dichloropropane	1	0.025	0.0256	102	0.0252	101	77.4 - 117		1.8	20	
1,4-Dichlorobenzene	1	0.025	0.0270	108	0.0270	108	78.8 - 115		0.19	20	
2,2-Dichloropropane	1	0.025	0.0238	95.1	0.0233	93.3	62.4 - 133		1.87	20	
2-Butanone (MEK)	1	0.125	0.1258	101	0.1235	98.8	55 - 149		1.79	20	
2-Chlorotoluene	1	0.025	0.0274	110	0.0262	105	74.7 - 122		4.43	20	
2-Hexanone	1	0.125	0.1354	108	0.1310	105	65.6 - 144		3.34	20	
4-Chlorotoluene	1	0.025	0.0260	104	0.0257	103	77.5 - 120		1.24	20	
4-Methyl-2-pentanone (MIBK)	1	0.125	0.1170	93.6	0.1156	92.5	70.5 - 133		1.24	20	
Acetone	1	0.125	0.1409	113	0.1368	109	35.6 - 163		2.99	23.9	
Benzene	1	0.025	0.0220	88	0.0216	86.5	74.8 - 121		1.7	20	
Bromobenzene	1	0.025	0.0257	103	0.0248	99.4	77.5 - 116		3.46	20	
Bromochloromethane	1	0.025	0.0250	100	0.0241	96.3	77.6 - 119		3.9	20	
Bromodichloromethane	1	0.025	0.0236	94.3	0.0230	92	75.1 - 116		2.39	20	
Bromoform	1	0.025	0.0267	107	0.0263	105	67.5 - 130		1.29	20	
Bromomethane	1	0.025	0.0306	122	0.0290	116	49.9 - 162		5.3	20	
Carbon disulfide	1	0.025	0.0224	89.6	0.0222	88.8	64.6 - 140		0.93	20	
Carbon tetrachloride	1	0.025	0.0249	99.7	0.0242	96.9	70.2 - 123		2.79	20	
Chlorobenzene	1	0.025	0.0281	112	0.0266	106	78.1 - 119		5.48	20	

Parameters in bold text are reported in this SDG

12065 Lebanon Rd
Mt. Juliet, TN 37122
(615) 758-5858
(800) 767-5859
Fax (615) 758-5859
Tax I.D 62-0814289
Est. 1970

Quality Control Summary
SDG: L735181
URS Corporation - Tucson AZ - 1088308

Test:	Volatile Organic Compounds by Method 8260B		
Project No:	23446543.0057AA	Matrix:	Water - mg/L
Project:	Holloman AFB	EPA ID:	TN00003
Collection Date:	11/20/2014	**Analytic Batch:**	**WG757170**
Analysis Date:	11/29/2014	Analyst:	644
Instrument ID:	VOCMS7		
Sample Numbers:	L735181-02		

Laboratory Control Sample / Laboratory Control Sample Duplicate

Analyte	Dil	Spike	LCS	% Rec	LCSD	% Rec	Control Limits	% Rec Qual	% RPD	Control Limits	RPD Qual
Chlorodibromomethane	1	0.025	0.0282	113	0.0269	107	74 - 121		5.01	20	
Chloroethane	1	0.025	0.0247	98.8	0.0226	90.5	61.7 - 135		8.71	20	
Chloroform	1	0.025	0.0223	89.1	0.0212	84.8	76 - 121		4.98	20	
Chloromethane	1	0.025	0.0236	94.5	0.0226	90.6	61.5 - 129		4.23	20	
cis-1,2-Dichloroethene	1	0.025	0.0228	91.3	0.0220	88.2	76 - 119		3.52	20	
cis-1,3-Dichloropropene	1	0.025	0.0245	98.1	0.0243	97.2	78.2 - 120		0.92	20	
Dibromomethane	1	0.025	0.0254	101	0.0246	98.3	79.5 - 118		3.1	20	
Dichlorodifluoromethane	1	0.025	0.0214	85.7	0.0207	83	54.8 - 135		3.16	20	
Ethylbenzene	1	0.025	0.0276	110	0.0269	107	78.8 - 122		2.75	20	
Hexachloro-1,3-butadiene	1	0.025	0.0294	118	0.0293	117	64.7 - 129		0.4	20	
Isopropylbenzene	1	0.025	0.0270	108	0.0265	106	78.6 - 132		1.86	20	
m&p-Xylenes	1	0.05	0.0524	105	0.0509	102	78.8 - 121		2.92	20	
Methyl tert-butyl ether	1	0.025	0.0232	92.8	0.0225	89.9	71.2 - 126		3.23	20	
Methylene Chloride	1	0.025	0.0215	85.9	0.0213	85.3	70.3 - 120		0.74	20	
Naphthalene	1	0.025	0.0277	111	0.0272	109	68.4 - 128		1.63	20	
n-Butylbenzene	1	0.025	0.0257	103	0.0257	103	76.2 - 126		0.15	20	
n-Propylbenzene	1	0.025	0.0267	107	0.0260	104	78.2 - 122		2.62	20	
o-Xylene	1	0.025	0.0270	108	0.0262	105	77.6 - 122		2.95	20	
p-Isopropyltoluene	1	0.025	0.0276	110	0.0268	107	74 - 131		2.85	20	
sec-Butylbenzene	1	0.025	0.0270	108	0.0261	104	74.4 - 127		3.38	20	
Styrene	1	0.025	0.0270	108	0.0261	104	80.4 - 126		3.49	20	
tert-Butylbenzene	1	0.025	0.0279	112	0.0269	108	75.3 - 126		3.43	20	
Tetrachloroethene	1	0.025	0.0285	114	0.0280	112	72.6 - 126		2.12	20	
Toluene	1	0.025	0.0233	93.4	0.0230	91.9	79.7 - 116		1.63	20	
trans-1,2-Dichloroethene	1	0.025	0.0225	90.2	0.0222	88.7	72.6 - 121		1.67	20	
trans-1,3-Dichloropropene	1	0.025	0.0244	97.4	0.0239	95.5	74.3 - 123		2.05	20	
Trichloroethene	1	0.025	0.0267	107	0.0266	106	77.7 - 118		0.58	20	
Trichlorofluoromethane	1	0.025	0.0264	106	0.0261	104	63.5 - 135		1.27	20	
Vinyl chloride	1	0.025	0.0244	97.6	0.0237	94.6	65.9 - 128		3.09	20	

Parameters in bold text are reported in this SDG

12065 Lebanon Rd
Mt. Juliet, TN 37122
(615) 758-5858
(800) 767-5859
Fax (615) 758-5859
Tax I.D 62-0814289
Est. 1970

Quality Control Summary
SDG: L735181
URS Corporation - Tucson AZ - 1088308

Test:	Volatile Organic Compounds by Method 8260B		
Project No:	23446543.0057AA	Matrix:	Water - mg/L
Project:	Holloman AFB	EPA ID:	TN00003
Collection Date:	11/20/2014	**Analytic Batch:**	**WG756584**
Analysis Date:	11/26/2014	Analyst:	644
Instrument ID:	VOCMS20		
Sample Numbers:	L735181-01, -02, -05, -07, -10		

Matrix Spike / Matrix Spike Duplicate

L734231-14

Analyte	Dil	Spike Value	Sample	MS	% Rec	MSD	% Rec	Control Limits	% Rec Qual	RPD	Control Limits	RPD Qual
1,1,1,2-Tetrachloroethane	1	0.025	<0.0004	0.0257	103	0.0255	102	64 - 128		0.73	20	
1,1,1-Trichloroethane	1	0.025	<0.0003	0.0252	101	0.0253	101	58.7 - 134		0.08	20	
1,1,2,2-Tetrachloroethane	1	0.025	<0.0001	0.0285	114	0.0290	116	56 - 132		1.41	22.2	
1,1,2-Trichloroethane	1	0.025	<0.0004	0.0260	104	0.0258	103	66.3 - 125		0.78	20	
1,1-Dichloroethane	1	0.025	<0.0003	0.0245	98.1	0.0243	97.1	58.5 - 132		1.06	20	
1,1-Dichloroethene	1	0.025	<0.0004	0.0247	98.6	0.0249	99.5	51.1 - 140		0.89	20.2	
1,1-Dichloropropene	1	0.025	<0.0004	0.0258	103	0.0256	103	57.3 - 136		0.5	20	
1,2,3-Trichlorobenzene	1	0.025	<0.0002	0.0287	115	0.0284	113	59.1 - 138		1.28	23.7	
1,2,3-Trichloropropane	1	0.025	<0.0008	0.0279	112	0.0278	111	61.4 - 128		0.28	22.4	
1,2,4-Trichlorobenzene	1	0.025	<0.0002	0.0275	110	0.0272	109	63.6 - 143		1.27	21.9	
1,2,4-Trimethylbenzene	1	0.025	<0.0004	0.0272	109	0.0266	106	57.4 - 137		2.12	20	
1,2-Dibromo-3-Chloropropane	1	0.025	<0.0013	0.0297	119	0.0297	119	57.3 - 136		0.08	27	
1,2-Dibromoethane	1	0.025	<0.0004	0.0271	109	0.0269	108	67.1 - 125		0.9	20	
1,2-Dichlorobenzene	1	0.025	<0.0003	0.0256	102	0.0255	102	68.2 - 123		0.34	20	
1,2-Dichloroethane	1	0.025	<0.0004	0.0253	101	0.0250	100	60 - 126		1.31	20	
1,2-Dichloropropane	1	0.025	<0.0003	0.0255	102	0.0248	99.4	64.2 - 123		2.42	20	
1,3,5-Trimethylbenzene	1	0.025	<0.0004	0.0265	106	0.0262	105	63.6 - 132		1.23	20.5	
1,3-Dichlorobenzene	1	0.025	<0.0002	0.0259	104	0.0256	102	63.1 - 131		1.2	20	
1,3-Dichloropropane	1	0.025	<0.0004	0.0252	101	0.0248	99.3	67.9 - 121		1.44	20	
1,4-Dichlorobenzene	1	0.025	<0.0003	0.0249	99.4	0.0246	98.6	68.6 - 123		0.87	20	
2,2-Dichloropropane	1	0.025	<0.0003	0.0253	101	0.0250	99.9	50.5 - 144		1.39	21.9	
2-Butanone (MEK)	1	0.125	<0.0039	0.1476	117	0.1455	115	22.4 - 138		1.42	27	
2-Chlorotoluene	1	0.025	<0.0004	0.0253	101	0.0253	101	63.6 - 128		0.09	20	
2-Hexanone	1	0.125	<0.0038	0.1555	124	0.1552	124	43.3 - 137		0.22	25.5	
4-Chlorotoluene	1	0.025	<0.0004	0.0255	102	0.0254	102	65.7 - 127		0.48	20	
4-Methyl-2-pentanone (MIBK)	1	0.125	<0.0021	0.1543	123	0.1525	122	60.8 - 140		1.18	25.1	
Acetone	1	0.125	0.0221	0.1352	90.5	0.1362	91.3	10 - 130		0.75	27.9	
Benzene	1	0.025	<0.0003	0.0240	96.1	0.0239	95.8	54.3 - 133		0.4	20	
Bromobenzene	1	0.025	<0.0004	0.0247	98.8	0.0242	96.7	63.9 - 124		2.11	20	
Bromochloromethane	1	0.025	<0.0005	0.0250	99.9	0.0254	101	66.5 - 122		1.52	20.8	
Bromodichloromethane	1	0.025	<0.0004	0.0249	99.4	0.0246	98.4	63.9 - 121		1.04	20	
Bromoform	1	0.025	<0.0005	0.0286	114	0.0281	112	59.5 - 134		1.91	20.5	
Bromomethane	1	0.025	<0.0009	0.0217	86.8	0.0229	91.8	41.7 - 155		5.57	21.9	
Carbon disulfide	1	0.025	0.0014	0.0265	100	0.0260	98.5	43.3 - 149		1.73	20.3	
Carbon tetrachloride	1	0.025	<0.0004	0.0248	99.3	0.0246	98.5	55.7 - 134		0.87	20	
Chlorobenzene	1	0.025	<0.0003	0.0249	99.7	0.0245	98.1	67 - 125		1.64	20	

Parameters in bold text are reported in this SDG

12065 Lebanon Rd
Mt. Juliet, TN 37122
(615) 758-5858
(800) 767-5859
Fax (615) 758-5859
Tax I.D 62-0814289
Est. 1970

Quality Control Summary
SDG: L735181
URS Corporation - Tucson AZ - 1088308

Test:	Volatile Organic Compounds by Method 8260B		
Project No:	23446543.0057AA	Matrix:	Water - mg/L
Project:	Holloman AFB	EPA ID:	TN00003
Collection Date:	11/20/2014	**Analytic Batch:**	**WG756584**
Analysis Date:	11/26/2014	Analyst:	644
Instrument ID:	VOCMS20		
Sample Numbers:	L735181-01, -02, -05, -07, -10		

Matrix Spike / Matrix Spike Duplicate

L734231-14

Analyte	Dil	Spike Value	Sample	MS	% Rec	MSD	% Rec	Control Limits	% Rec Qual	RPD	Control Limits	RPD Qual
Chlorodibromomethane	1	0.025	<0.0003	0.0265	106	0.0261	105	64.3 - 125		1.37	20.8	
Chloroethane	1	0.025	<0.0005	0.0258	103	0.0268	107	51.5 - 136		3.84	40	
Chloroform	1	0.025	<0.0003	0.0243	97.3	0.0239	95.5	63 - 129		1.89	20	
Chloromethane	1	0.025	<0.0003	0.0213	85.4	0.0214	85.6	42.4 - 135		0.23	20	
cis-1,2-Dichloroethene	1	0.025	<0.0003	0.0249	99.5	0.0244	97.7	59.2 - 129		1.8	20	
cis-1,3-Dichloropropene	1	0.025	<0.0004	0.0256	102	0.0256	102	66.4 - 125		0.13	20	
Dibromomethane	1	0.025	<0.0003	0.0262	105	0.0265	106	68.2 - 124		1.31	20	
Dichlorodifluoromethane	1	0.025	<0.0006	0.0245	98.2	0.0246	98.4	40.6 - 144		0.23	20.2	
Ethylbenzene	1	0.025	<0.0004	0.0263	105	0.0259	104	61.4 - 133		1.36	20	
Hexachloro-1,3-butadiene	1	0.025	<0.0003	0.0272	109	0.0271	108	55.1 - 136		0.44	23.6	
Isopropylbenzene	1	0.025	<0.0003	0.0275	110	0.0271	108	66.8 - 141		1.52	20	
m&p-Xylenes	1	0.05	<0.0007	0.0528	106	0.0515	103	61.7 - 133		2.38	20	
Methyl tert-butyl ether	1	0.025	<0.0004	0.0267	107	0.0264	106	57.7 - 134		1.03	20	
Methylene Chloride	1	0.025	<0.001	0.0247	97.4	0.0245	96.4	58.1 - 122		1.07	20	
Naphthalene	1	0.025	<0.001	0.0295	118	0.0293	117	58 - 135		0.56	25.5	
n-Butylbenzene	1	0.025	<0.0004	0.0271	108	0.0267	107	62.7 - 140		1.4	20.3	
n-Propylbenzene	1	0.025	<0.0003	0.0257	103	0.0254	101	65.9 - 131		1.46	20	
o-Xylene	1	0.025	<0.0003	0.0265	106	0.0266	107	63.3 - 130		0.41	20	
p-Isopropyltoluene	1	0.025	<0.0004	0.0288	115	0.0281	112	63.2 - 139		2.42	20.4	
sec-Butylbenzene	1	0.025	<0.0004	0.0279	112	0.0276	110	62.2 - 136		1.25	20.3	
Styrene	1	0.025	<0.0003	0.0262	105	0.0257	103	66.8 - 133		1.59	20	
tert-Butylbenzene	1	0.025	<0.0004	0.0275	110	0.0271	108	63.3 - 134		1.69	21	
Tetrachloroethene	1	0.025	<0.0004	0.0257	103	0.0251	100	53 - 139		2.31	20	
Toluene	1	0.025	<0.0008	0.0231	92.6	0.0228	91	61.4 - 130		1.69	20	
trans-1,2-Dichloroethene	1	0.025	<0.0004	0.0243	97.2	0.0241	96.5	56.5 - 129		0.75	20	
trans-1,3-Dichloropropene	1	0.025	<0.0004	0.0277	111	0.0272	109	64.1 - 128		1.58	20	
Trichloroethene	1	0.025	<0.0004	0.0247	98.6	0.0246	98.6	44.1 - 149		0.05	20	
Trichlorofluoromethane	1	0.025	<0.0012	0.0255	102	0.0257	103	49.6 - 145		0.6	21.2	
Vinyl chloride	1	0.025	<0.0003	0.0243	97	0.0246	98.4	47.8 - 137		1.44	20	

Parameters in bold text are reported in this SDG

12065 Lebanon Rd
Mt. Juliet, TN 37122
(615) 758-5858
(800) 767-5859
Fax (615) 758-5859
Tax I.D 62-0814289
Est. 1970

Quality Control Summary
SDG: L735181
URS Corporation - Tucson AZ - 1088308

Test:	Volatile Organic Compounds by Method 8260B		
Project No:	23446543.0057AA	Matrix:	Water - mg/L
Project:	Holloman AFB	EPA ID:	TN00003
Collection Date:	11/20/2014	**Analytic Batch:**	**WG757170**
Analysis Date:	11/29/2014	Analyst:	644
Instrument ID:	VOCMS7		
Sample Numbers:	L735181-02		

Matrix Spike / Matrix Spike Duplicate

L735524-01

Analyte	Dil	Spike Value	Sample	MS	% Rec	MSD	% Rec	Control Limits	% Rec Qual	RPD	Control Limits	RPD Qual
1,1,1,2-Tetrachloroethane	1	0.025	<0.0004	0.0272	109	0.0270	108	64 - 128		0.89	20	
1,1,1-Trichloroethane	1	0.025	<0.0003	0.0221	88.5	0.0220	87.8	58.7 - 134		0.7	20	
1,1,2,2-Tetrachloroethane	1	0.025	<0.0001	0.0236	94.4	0.0246	98.2	56 - 132		3.99	22.2	
1,1,2-Trichloroethane	1	0.025	<0.0004	0.0244	97.6	0.0245	98	66.3 - 125		0.46	20	
1,1-Dichloroethane	1	0.025	<0.0003	0.0225	89.9	0.0228	91.3	58.5 - 132		1.53	20	
1,1-Dichloroethene	1	0.025	<0.0004	0.0242	96.9	0.0240	96	51.1 - 140		0.94	20.2	
1,1-Dichloropropene	1	0.025	<0.0004	0.0237	94.7	0.0239	95.8	57.3 - 136		1.08	20	
1,2,3-Trichlorobenzene	1	0.025	<0.0002	0.0282	113	0.0303	121	59.1 - 138		7.34	23.7	
1,2,3-Trichloropropane	1	0.025	<0.0008	0.0252	101	0.0265	106	61.4 - 128		5.32	22.4	
1,2,4-Trichlorobenzene	1	0.025	<0.0002	0.0289	116	0.0301	120	63.6 - 143		4.04	21.9	
1,2,4-Trimethylbenzene	1	0.025	<0.0004	0.0254	102	0.0257	103	57.4 - 137		0.97	20	
1,2-Dibromo-3-Chloropropane	1	0.025	<0.0013	0.0274	109	0.0291	116	57.3 - 136		6.12	27	
1,2-Dibromoethane	1	0.025	<0.0004	0.0264	106	0.0267	107	67.1 - 125		1.24	20	
1,2-Dichlorobenzene	1	0.025	<0.0003	0.0259	104	0.0263	105	68.2 - 123		1.55	20	
1,2-Dichloroethane	1	0.025	<0.0004	0.0238	95.1	0.0239	95.5	60 - 126		0.41	20	
1,2-Dichloropropane	1	0.025	<0.0003	0.0230	91.8	0.0233	93.2	64.2 - 123		1.44	20	
1,3,5-Trimethylbenzene	1	0.025	<0.0004	0.0261	104	0.0262	105	63.6 - 132		0.62	20.5	
1,3-Dichlorobenzene	1	0.025	<0.0002	0.0269	108	0.0276	110	63.1 - 131		2.38	20	
1,3-Dichloropropane	1	0.025	<0.0004	0.0247	98.8	0.0252	101	67.9 - 121		1.9	20	
1,4-Dichlorobenzene	1	0.025	<0.0003	0.0263	105	0.0263	105	68.6 - 123		0.29	20	
2,2-Dichloropropane	1	0.025	<0.0003	0.0233	93.1	0.0233	93.3	50.5 - 144		0.26	21.9	
2-Butanone (MEK)	1	0.125	<0.0039	0.1082	86.6	0.1174	93.9	22.4 - 138		8.15	27	
2-Chlorotoluene	1	0.025	<0.0004	0.0264	105	0.0266	107	63.6 - 128		1	20	
2-Hexanone	1	0.125	<0.0038	0.1199	95.9	0.1293	103	43.3 - 137		7.51	25.5	
4-Chlorotoluene	1	0.025	<0.0004	0.0255	102	0.0262	105	65.7 - 127		2.56	20	
4-Methyl-2-pentanone (MIBK)	1	0.125	<0.0021	0.1103	88.2	0.1219	97.5	60.8 - 140		10	25.1	
Acetone	1	0.125	0.0110	0.1000	71.2	0.1075	77.2	10 - 130		7.26	27.9	
Benzene	1	0.025	<0.0003	0.0214	85.7	0.0212	84.9	54.3 - 133		0.91	20	
Bromobenzene	1	0.025	<0.0004	0.0247	98.7	0.0251	101	63.9 - 124		1.86	20	
Bromochloromethane	1	0.025	<0.0005	0.0238	95.2	0.0243	97	66.5 - 122		1.95	20.8	
Bromodichloromethane	1	0.025	<0.0004	0.0227	90.6	0.0231	92.5	63.9 - 121		2.03	20	
Bromoform	1	0.025	<0.0005	0.0256	102	0.0273	109	59.5 - 134		6.27	20.5	
Bromomethane	1	0.025	<0.0009	0.0307	123	0.0322	129	41.7 - 155		4.95	21.9	
Carbon disulfide	1	0.025	<0.0003	0.0218	87.3	0.0219	87.6	43.3 - 149		0.31	20.3	
Carbon tetrachloride	1	0.025	<0.0004	0.0273	109	0.0245	97.9	55.7 - 134		11	20	
Chlorobenzene	1	0.025	<0.0003	0.0263	105	0.0270	108	67 - 125		2.44	20	

Parameters in bold text are reported in this SDG

12065 Lebanon Rd
Mt. Juliet, TN 37122
(615) 758-5858
(800) 767-5859
Fax (615) 758-5859
Tax I.D 62-0814289
Est. 1970

Quality Control Summary
SDG: L735181
URS Corporation - Tucson AZ - 1088308

Test:	Volatile Organic Compounds by Method 8260B		
Project No:	23446543.0057AA	Matrix:	Water - mg/L
Project:	Holloman AFB	EPA ID:	TN00003
Collection Date:	11/20/2014	**Analytic Batch:**	**WG757170**
Analysis Date:	11/29/2014	Analyst:	644
Instrument ID:	VOCMS7		
Sample Numbers:	L735181-02		

Matrix Spike / Matrix Spike Duplicate

L735524-01

Analyte	Dil	Spike Value	Sample	MS	% Rec	MSD	% Rec	Control Limits	% Rec Qual	RPD	Control Limits	RPD Qual
Chlorodibromomethane	1	0.025	<0.0003	0.0263	105	0.0269	108	64.3 - 125		2.4	20.8	
Chloroethane	1	0.025	<0.0005	0.0246	98.4	0.0234	93.5	51.5 - 136		5.14	40	
Chloroform	1	0.025	<0.0003	0.0215	86.1	0.0215	85.9	63 - 129		0.33	20	
Chloromethane	1	0.025	<0.0003	0.0226	90.5	0.0225	89.9	42.4 - 135		0.71	20	
cis-1,2-Dichloroethene	1	0.025	<0.0003	0.0221	88.6	0.0224	89.7	59.2 - 129		1.29	20	
cis-1,3-Dichloropropene	1	0.025	<0.0004	0.0234	93.6	0.0242	96.8	66.4 - 125		3.39	20	
Dibromomethane	1	0.025	<0.0003	0.0246	98.3	0.0248	99.2	68.2 - 124		0.94	20	
Dichlorodifluoromethane	1	0.025	<0.0006	0.0214	85.5	0.0208	83.2	40.6 - 144		2.71	20.2	
Ethylbenzene	1	0.025	<0.0004	0.0266	106	0.0267	107	61.4 - 133		0.28	20	
Hexachloro-1,3-butadiene	1	0.025	<0.0003	0.0282	113	0.0290	116	55.1 - 136		2.74	23.6	
Isopropylbenzene	1	0.025	<0.0003	0.0264	106	0.0265	106	66.8 - 141		0.27	20	
m&p-Xylenes	1	0.05	<0.0007	0.0508	102	0.0513	103	61.7 - 133		0.94	20	
Methyl tert-butyl ether	1	0.025	<0.0004	0.0222	88.9	0.0229	91.6	57.7 - 134		2.92	20	
Methylene Chloride	1	0.025	<0.001	0.0211	84.2	0.0211	84.4	58.1 - 122		0.24	20	
Naphthalene	1	0.025	<0.001	0.0263	105	0.0287	115	58 - 135		8.53	25.5	
n-Butylbenzene	1	0.025	<0.0004	0.0256	102	0.0262	105	62.7 - 140		2.32	20.3	
n-Propylbenzene	1	0.025	<0.0003	0.0259	104	0.0262	105	65.9 - 131		0.89	20	
o-Xylene	1	0.025	<0.0003	0.0258	103	0.0259	104	63.3 - 130		0.34	20	
p-Isopropyltoluene	1	0.025	<0.0004	0.0268	107	0.0273	109	63.2 - 139		1.82	20.4	
sec-Butylbenzene	1	0.025	<0.0004	0.0262	105	0.0262	105	62.2 - 136		0.2	20.3	
Styrene	1	0.025	<0.0003	0.0262	105	0.0262	105	66.8 - 133		0.05	20	
tert-Butylbenzene	1	0.025	<0.0004	0.0269	107	0.0271	109	63.3 - 134		1.08	21	
Tetrachloroethene	1	0.025	<0.0004	0.0281	112	0.0284	113	53 - 139		0.93	20	
Toluene	1	0.025	<0.0008	0.0225	90.1	0.0234	93.5	61.4 - 130		3.74	20	
trans-1,2-Dichloroethene	1	0.025	<0.0004	0.0219	87.4	0.0219	87.6	56.5 - 129		0.23	20	
trans-1,3-Dichloropropene	1	0.025	<0.0004	0.0235	94	0.0244	97.5	64.1 - 128		3.71	20	
Trichloroethene	1	0.025	<0.0004	0.0251	101	0.0259	104	44.1 - 149		2.91	20	
Trichlorofluoromethane	1	0.025	<0.0012	0.0260	104	0.0261	104	49.6 - 145		0.35	21.2	
Vinyl chloride	1	0.025	<0.0003	0.0235	93.8	0.0233	93.4	47.8 - 137		0.49	20	

Parameters in bold text are reported in this SDG

12065 Lebanon Rd
Mt. Juliet, TN 37122
(615) 758-5858
(800) 767-5859
Fax (615) 758-5859
Tax I.D 62-0814289
Est. 1970

Quality Control Summary
SDG: L735181
URS Corporation - Tucson AZ - 1088308

Test:	Volatile Organic Compounds by Method 8260B		
Project No:	23446543.0057AA	Matrix:	Water - mg/L
Project:	Holloman AFB	EPA ID:	TN00003
Collection Date:	11/20/2014	**Analytic Batch:**	**WG756584**
Analysis Date:	11/26/2014	Analyst:	644
Instrument ID:	VOCMS20		
Sample Numbers:	L735181-01, -02, -05, -07, -10		

Internal Standard Response and Retention Time Summary

File ID: 1125_61
Analyzed: 11/25/14 221900

	DCB		IS2		IS3		IS1	
	Response	**RT**	**Response**	**RT**	**Response**	**RT**	**Response**	**RT**
12 Hr. Std	370528	8.22	863843	4.67	143152	5.84	464808	4.34
Upper Limit	741000	8.72	1730000	5.17	286000	6.34	930000	4.84
Lower Limit	185000	7.72	432000	4.17	71600	5.34	232000	3.84
Sample ID	**Response**	**RT**	**Response**	**RT**	**Response**	**RT**	**Response**	**RT**
L735181-01	328297	8.22	805111	4.67	133744	5.84	417995	4.34
L735181-02	342360	8.22	837143	4.67	138107	5.84	439956	4.34
L735181-05	361241	8.22	837014	4.67	139423	5.84	444433	4.34
L735181-07	311361	8.22	741738	4.67	125638	5.84	388613	4.34
L735181-10	352887	8.22	829152	4.67	139185	5.84	432356	4.34
MSD WG756584	372142	8.22	869103	4.67	148141	5.84	468875	4.34
MS WG756584	374595	8.22	862361	4.67	147109	5.84	470197	4.34
LCSD WG756584	371228	8.22	851679	4.67	144360	5.84	461162	4.34
LCS WG756584	368891	8.22	855577	4.67	142721	5.84	463262	4.34
BLANK WG756584	337926	8.22	821662	4.67	132744	5.84	434524	4.34

Legend:
DCB -- 1,4-DICHLOROBENZENE-D4
IS2 -- 1,4-DIFLUOROBENZENE
IS3 -- 2-BROMO-1-CHLOROPROPANE
IS1 -- PENTAFLUOROBENZENE

Parameters in bold text are reported in this SDG

12065 Lebanon Rd
Mt. Juliet, TN 37122
(615) 758-5858
(800) 767-5859
Fax (615) 758-5859
Tax I.D 62-0814289
Est. 1970

YOUR LAB OF CHOICE

Quality Control Summary
SDG: L735181
URS Corporation - Tucson AZ - 1088308

Test:	Volatile Organic Compounds by Method 8260B		
Project No:	23446543.0057AA	Matrix:	Water - mg/L
Project:	Holloman AFB	EPA ID:	TN00003
Collection Date:	11/20/2014	**Analytic Batch:**	**WG757170**
Analysis Date:	11/29/2014	Analyst:	644
Instrument ID:	VOCMS7		
Sample Numbers:	L735181-02		

Internal Standard Response and Retention Time Summary

File ID: 1129_02
Analyzed: 11/29/14 040200

	DCB		IS2		IS3		IS1	
	Response	**RT**	**Response**	**RT**	**Response**	**RT**	**Response**	**RT**
12 Hr. Std	308470	8.25	679335	4.68	106858	5.85	387105	4.35
Upper Limit	617000	8.75	1360000	5.18	214000	6.35	774000	4.85
Lower Limit	154000	7.75	340000	4.18	53400	5.35	194000	3.85
Sample ID	**Response**	**RT**	**Response**	**RT**	**Response**	**RT**	**Response**	**RT**
L735181-02	313945	8.25	665683	4.68	104747	5.85	398232	4.35
MSD WG757170	300402	8.25	662642	4.68	102821	5.85	378314	4.35
MS WG757170	311751	8.25	706115	4.68	107375	5.85	396826	4.35
LCSD WG757170	294945	8.25	669538	4.68	103294	5.85	381911	4.35
LCS WG757170	294067	8.25	671931	4.68	101417	5.85	380235	4.35
BLANK WG757170	301508	8.25	670443	4.68	102109	5.85	400764	4.35

Legend:

DCB -- 1,4-DICHLOROBENZENE-D4
IS2 -- 1,4-DIFLUOROBENZENE
IS3 -- 2-BROMO-1-CHLOROPROPANE
IS1 -- PENTAFLUOROBENZENE

Parameters in bold text are reported in this SDG

12065 Lebanon Rd
Mt. Juliet, TN 37122
(615) 758-5858
(800) 767-5859
Fax (615) 758-5859
Tax I.D 62-0814289
Est. 1970

Quality Control Summary
SDG: L735181
URS Corporation - Tucson AZ - 1088308

Test:	Volatile Organic Compounds by Method 8260B		
Project No:	23446543.0057AA	Matrix:	Water - mg/L
Project:	Holloman AFB	EPA ID:	TN00003
Collection Date:	11/20/2014	**Analytic Batch:**	**WG756584**
Analysis Date:	11/26/2014	Analyst:	644
Instrument ID:	VOCMS20		
Sample Numbers:	L735181-01, -02, -05, -07, -10		

Surrogate Summary

			BFB		DFM		TD8		TFT	
Laboratory Sample ID	Instrument	File ID	ppm	% Rec	ppm	% Rec	ppm	% Rec	ppm	% Rec
L735181-01	VOCMS20	1125_70	0.0392	98.1	0.0408	102	0.0397	99.1		
L735181-02	VOCMS20	1125_81	0.0392	98.0	0.0392	98.1	0.0393	98.3		
L735181-05	VOCMS20	1125_82	0.0399	99.7	0.0398	99.4	0.0398	99.6		
L735181-07	VOCMS20	1125_83	0.0392	97.9	0.0411	103	0.0401	100		
L735181-10	VOCMS20	1125_84	0.0398	99.4	0.0407	102	0.0399	99.8		
LCS WG756584	VOCMS20	1125_62	0.0397	99.3	0.0389	97.3	0.0401	100	0.0417	104
LCSD WG756584	VOCMS20	1125_63	0.0404	101	0.0391	97.7	0.0407	102	0.0422	105
MS WG756584	VOCMS20	1125_64	0.0394	98.5	0.0386	96.5	0.0401	100	0.0415	104
MSD WG756584	VOCMS20	1125_65	0.0395	98.8	0.0388	96.9	0.0396	99.0	0.0412	103
BLANK WG756584	VOCMS20	1125_67	0.0400	99.9	0.0397	99.1	0.0393	98.2	0.0422	105

BFB --4-BROMOFLUOROBENZENE	True Value: 0.04 ppm	Limits: 71 - 126
DFM --DIBROMOFLUOROMETHANE	True Value: 0.04 ppm	Limits: 78.3 - 121
TD8 --TOLUENE-D8	True Value: 0.04 ppm	Limits: 88.50 - 111
TFT --A,A,A-TRIFLUOROTOLUENE	True Value: 0.04 ppm	Limits: 85 - 114

12065 Lebanon Rd
Mt. Juliet, TN 37122
(615) 758-5858
(800) 767-5859
Fax (615) 758-5859
Tax I.D 62-0814289
Est. 1970

Quality Control Summary
SDG: L735181
URS Corporation - Tucson AZ - 1088308

Test:	Volatile Organic Compounds by Method 8260B		
Project No:	23446543.0057AA	Matrix:	Water - mg/L
Project:	Holloman AFB	EPA ID:	TN00003
Collection Date:	11/20/2014	**Analytic Batch:**	**WG757170**
Analysis Date:	11/29/2014	Analyst:	644
Instrument ID:	VOCMS7		
Sample Numbers:	L735181-02		

Surrogate Summary

			BFB		DFM		TD8		TFT	
Laboratory Sample ID	Instrument	File ID	ppm	% Rec	ppm	% Rec	ppm	% Rec	ppm	% Rec
L735181-02	VOCMS7	1129_19	0.0415	104	0.0379	94.7	0.0403	101		
LCS WG757170	VOCMS7	1129_03	0.0424	106	0.0388	97.1	0.0400	100	0.0413	103
LCSD WG757170	VOCMS7	1129_04	0.0414	103	0.0386	96.4	0.0404	101	0.0415	104
MS WG757170	VOCMS7	1129_05	0.0421	105	0.0393	98.3	0.0401	100	0.0414	103
MSD WG757170	VOCMS7	1129_06	0.0422	106	0.0388	97.0	0.0405	101	0.0416	104
BLANK WG757170	VOCMS7	1129_09	0.0417	104	0.0379	94.7	0.0395	98.8	0.0411	103

BFB --4-BROMOFLUOROBENZENE	True Value: 0.04 ppm	Limits: 71 - 126
DFM --DIBROMOFLUOROMETHANE	True Value: 0.04 ppm	Limits: 78.3 - 121
TD8 --TOLUENE-D8	True Value: 0.04 ppm	Limits: 88.50 - 111
TFT --A,A,A-TRIFLUOROTOLUENE	True Value: 0.04 ppm	Limits: 85 - 114

12065 Lebanon Rd
Mt. Juliet, TN 37122
(615) 758-5858
(800) 767-5859
Fax (615) 758-5859
Tax I.D 62-0814289
Est. 1970

Quality Control Summary
SDG: L735181
URS Corporation - Tucson AZ - 1088308

Test: Volatile Organic Compounds by Method 8260B
Project No: 23446543.0057AA
Project: Holloman AFB EPA ID: TN00003
Collection Date: 11/20/2014
Instrument ID: VOCMS20

Instrument Performance Summary

FileID: 1125_60.D Date: 11/25/2014 Time: 10:01 PM

m/e	Ion Abundance Criteria	% Relative Abundance
50	15 - 40% of mass 95	19.2
75	30 - 60% of mass 95	48.3
95	100 - 100% of mass 95	100
96	5 - 9% of mass 95	6.7
173	0 - 2% of mass 174	1.5
174	50 - 150% of mass 95	67.1
175	5 - 9% of mass 174	7.9
176	95 - 101% of mass 174	96.1
177	5 - 9% of mass 176	6

This Check applies to the following samples and quality control samples

Client Sample ID	Laboratory Sample ID	Lab Filename	Date Analyzed	Time Analyzed
LCS WG756584	LCS WG756584	1125_62.D	11/25/2014	10:48 PM
LCSD WG756584	LCSD WG756584	1125_63.D	11/25/2014	11:06 PM
MS WG756584	MS WG756584	1125_64.D	11/25/2014	11:24 PM
MSD WG756584	MSD WG756584	1125_65.D	11/25/2014	11:42 PM
Blank WG756584	Blank WG756584	1125_67.D	11/26/2014	12:19 AM
H-TU508-TRIPBLANK-TT01	L735181-01	1125_70.D	11/26/2014	1:14 AM
H-TU508-MW06-NT01	L735181-02	1125_81.D	11/26/2014	4:34 AM
H-TU508-MW05-NT01	L735181-05	1125_82.D	11/26/2014	4:53 AM
H-TU508-MW04-NT01	L735181-07	1125_83.D	11/26/2014	5:11 AM
H-TU508-MW07-NT01	L735181-10	1125_84.D	11/26/2014	5:29 AM

*** - calibrated by linear regression*

12065 Lebanon Rd
Mt. Juliet, TN 37122
(615) 758-5858
(800) 767-5859
Fax (615) 758-5859
Tax I.D 62-0814289
Est. 1970

Quality Control Summary
SDG: L735181
URS Corporation - Tucson AZ - 1088308

Test: Volatile Organic Compounds by Method 8260B
Project No: 23446543.0057AA
Project: Holloman AFB EPA ID: TN00003
Collection Date: 11/20/2014
Instrument ID: VOCMS7

Instrument Performance Summary

FileID: 1129_01.D Date: 11/29/2014 Time: 3:43 AM

m/e	Ion Abundance Criteria	% Relative Abundance
50	15 - 40% of mass 95	15.6
75	30 - 60% of mass 95	43.5
95	100 - 100% of mass 95	100
96	5 - 9% of mass 95	6.5
173	0 - 2% of mass 174	0
174	50 - 150% of mass 95	76.6
175	5 - 9% of mass 174	8.3
176	95 - 101% of mass 174	96.4
177	5 - 9% of mass 176	6.8

This Check applies to the following samples and quality control samples

Client Sample ID	Laboratory Sample ID	Lab Filename	Date Analyzed	Time Analyzed
LCS WG757170	LCS WG757170	1129_03.D	11/29/2014	4:21 AM
LCSD WG757170	LCSD WG757170	1129_04.D	11/29/2014	4:41 AM
MS WG757170	MS WG757170	1129_05.D	11/29/2014	5:29 AM
MSD WG757170	MSD WG757170	1129_06.D	11/29/2014	5:56 AM
Blank WG757170	Blank WG757170	1129_09.D	11/29/2014	6:53 AM
H-TU508-MW06-NT01	L735181-02	1129_19.D	11/29/2014	10:30 AM

*** - calibrated by linear regression*

12065 Lebanon Rd
Mt. Juliet, TN 37122
(615) 758-5858
(800) 767-5859
Fax (615) 758-5859
Tax I.D 62-0814289
Est. 1970

Quality Control Summary
SDG: L735181
URS Corporation - Tucson AZ - 1088308

Test: Volatile Organic Compounds by Method 8260B
Project: Holloman AFB
Instrument ID: VOCMS7
Method Name : V807K24N.M

Relative Response Factor Summary

Compound Name	Level .25	Level .5	Level 1	Level 2	Level 5.0	Level 10	Level 25	Level 40	Level 75	Average RRF	%RSD
TPH (GC/MS) LOW FRACTION										0.000000	0.00
PROPENE				0.172	0.138	0.115	0.124	0.128	0.120	0.132596	13.24
DICHLORODIFLUOROMETHANE	0.630	0.614	0.631	0.584	0.477	0.521	0.542	0.574	0.559	0.572321	8.15
CHLOROMETHANE	0.662	0.686	0.756	0.692	0.614	0.641	0.682	0.703	0.671	0.683859	5.50
VINYL CHLORIDE	0.461	0.694	0.676	0.720	0.596	0.686	0.712	0.744	0.702	0.677257	12.10
1,3-BUTADIENE			0.616	0.515	0.451	0.480	0.487	0.501	0.469	0.495021	9.95
BROMOMETHANE				0.267	0.211	0.203	0.196	0.212	0.210	0.218857	10.20
CHLOROETHANE					0.106	0.113	0.106	0.099	0.079	0.100451	12.76
TRICHLOROFLUOROMETHANE	0.500	0.661	0.655	0.664	0.563	0.656	0.669	0.683	0.640	0.635003	8.56
DICHLOROFLUOROMETHANE	1.191	0.985	0.914	0.968	0.887	0.895	0.954	0.977	0.915	0.959670	8.69
ETHYL ETHER	0.373	0.473	0.439	0.458	0.415	0.434	0.446	0.462	0.429	0.436677	6.12
ACROLEIN			0.097	0.085	0.075	0.075	0.073	0.078	0.071	0.078490	10.21
1,1-DICHLOROETHENE	0.630	0.754	0.768	0.775	0.663	0.730	0.782	0.806	0.737	0.739946	6.98
1,1,2-TRICHLOROTRIFLUOROETHANE	0.415	0.473	0.486	0.485	0.421	0.469	0.496	0.507	0.467	0.470187	6.04
ACETONE			0.180	0.169	0.139	0.139	0.132	0.144	0.126	0.143924	12.84
IODOMETHANE		0.481	0.477	0.483	0.449	0.510	0.575	0.613	0.609	0.549884	14.18
CARBON DISULFIDE	2.467	2.303	2.046	1.953	1.669	1.810	1.850	1.886	1.742	1.935129	12.78
METHYLENE CHLORIDE		0.721	0.676	0.633	0.540	0.547	0.563	0.583	0.550	0.594864	10.32
ACRYLONITRILE	0.197	0.205	0.217	0.218	0.194	0.194	0.193	0.207	0.187	0.200472	5.08
n-Hexane			0.726	0.631	0.502	0.523	0.538	0.531	0.490	0.547667	14.53
TRANS-1,2-DICHLOROETHENE	0.732	0.668	0.574	0.578	0.502	0.538	0.561	0.572	0.535	0.578580	11.32
METHYL TERT-BUTYL ETHER	1.406	1.588	1.540	1.608	1.452	1.442	1.474	1.532	1.402	1.485626	4.75
1,1-DICHLOROETHANE	0.872	0.997	1.009	0.995	0.869	0.929	0.990	1.024	0.947	0.962997	5.48
VINYL ACETATE	0.889	0.990	0.950	0.930	0.911	0.880	0.859	0.925	0.797	0.895583	6.06
DI-ISOPROPYL ETHER	1.822	2.017	1.989	1.870	1.718	1.736	1.783	1.848	1.711	1.819844	5.71
2,2-Dichloropropane	0.785	0.811	0.893	0.827	0.730	0.757	0.796	0.804	0.745	0.790431	5.63
CIS-1,2-DICHLOROETHENE	0.695	0.650	0.641	0.633	0.544	0.584	0.602	0.614	0.573	0.611918	6.78
2-BUTANONE (MEK)	0.058	0.078	0.084	0.077	0.066	0.070	0.069	0.074	0.066	0.071185	10.04

12065 Lebanon Rd
Mt. Juliet, TN 37122
(615) 758-5858
(800) 767-5859
Fax (615) 758-5859
Tax I.D 62-0814289
Est. 1970

Quality Control Summary
SDG: L735181
URS Corporation - Tucson AZ - 1088308

Test: Volatile Organic Compounds by Method 8260B
Project: Holloman AFB
Instrument ID: VOCMS7
Method Name : V807K24N.M

Relative Response Factor Summary

Compound Name	Level .25	Level .5	Level 1	Level 2	Level 5.0	Level 10	Level 25	Level 40	Level 75	Average RRF	%RSD
BROMOCHLOROMETHANE	0.264	0.335	0.330	0.332	0.305	0.315	0.327	0.342	0.312	0.318160	6.64
TETRAHYDROFURAN					0.198	0.168	0.164	0.180	0.158	0.171174	7.77
CHLOROFORM	1.204	1.142	1.044	0.945	0.813	0.836	0.889	0.902	0.847	0.943129	13.79
DIBROMOFLUOROMETHANE	0.512	0.521	0.521	0.518	0.513	0.516	0.521	0.524	0.515	0.516717	0.91
1,1,1-TRICHLOROETHANE	1.010	0.892	0.809	0.745	0.635	0.692	0.707	0.732	0.684	0.756578	14.31
CARBON TETRACHLORIDE	0.518	0.595	0.572	0.581	0.473	0.528	0.567	0.583	0.554	0.555503	6.48
1,1-Dichloropropene	0.722	0.763	0.777	0.799	0.697	0.733	0.768	0.789	0.732	0.753563	4.05
2,2,4-TRIMETHYLPENTANE	2.595	2.660	2.593	2.562	2.085	2.365	2.360	2.394	2.216	2.398274	7.65
HEPTANE	1.251	1.060	1.096	0.963	0.861	0.899	0.935	0.950	0.883	0.970658	12.27
BENZENE	2.400	2.505	2.458	2.383	2.040	2.127	2.224	2.257	2.128	2.265619	6.64
1,2-DICHLOROETHANE	0.526	0.575	0.606	0.615	0.576	0.567	0.592	0.625	0.581	0.589747	4.87
TRICHLOROETHENE	0.285	0.303	0.294	0.306	0.256	0.275	0.288	0.291	0.274	0.285544	4.84
1,2-DICHLOROPROPANE	0.188	0.235	0.254	0.251	0.217	0.224	0.227	0.229	0.212	0.224460	8.22
DIBROMOMETHANE	0.142	0.198	0.170	0.171	0.158	0.157	0.167	0.171	0.162	0.166920	8.14
BROMODICHLOROMETHANE		0.428	0.472	0.426	0.363	0.361	0.366	0.376	0.346	0.386048	10.69
a,a,a-Trifluorotoluene	0.551	0.553	0.546	0.541	0.532	0.535	0.529	0.519	0.506	0.530836	3.06
2-CHLOROETHYL VINYL ETHER					0.002	0.002	0.001	0.001	0.001	0.001361	25.18
CIS-1,3-DICHLOROPROPENE	0.517	0.535	0.513	0.534	0.486	0.487	0.506	0.519	0.479	0.507447	3.65
4-METHYL-2-PENTANONE (MIBK)	0.115	0.140	0.124	0.129	0.117	0.117	0.116	0.124	0.110	0.120179	6.90
TOLUENE-D8	1.228	1.235	1.222	1.223	1.206	1.198	1.201	1.185	1.167	1.206827	1.79
TOLUENE		1.827	1.494	1.404	1.181	1.220	1.259	1.262	1.189	1.329238	15.13
TRANS-1,3-DICHLOROPROPENE		0.122	0.120	0.109	0.107	0.110	0.111	0.111	0.101	0.109978	6.02
1,1,2-TRICHLOROETHANE		2.144	1.803	1.727	1.501	1.486	1.576	1.557	1.463	1.624665	13.19
TETRACHLOROETHENE	1.424	1.489	1.259	1.329	1.151	1.242	1.294	1.259	1.186	1.272628	8.42
1,3-Dichloropropane	3.291	3.135	2.935	2.779	2.579	2.606	2.682	2.716	2.526	2.764070	9.17
2-HEXANONE	0.745	0.807	0.806	0.831	0.717	0.715	0.727	0.768	0.691	0.747829	6.38
CHLORODIBROMOMETHANE	1.405	1.502	1.503	1.520	1.362	1.447	1.521	1.568	1.483	1.491787	4.30
1,2-DIBROMOETHANE	1.383	1.636	1.653	1.668	1.552	1.520	1.573	1.611	1.510	1.568449	5.10
CHLOROBENZENE	4.869	5.472	5.215	5.123	4.464	4.615	4.921	4.765	4.495	4.811573	7.21

12065 Lebanon Rd
Mt. Juliet, TN 37122
(615) 758-5858
(800) 767-5859
Fax (615) 758-5859
Tax I.D 62-0814289
Est. 1970

Quality Control Summary
SDG: L735181
URS Corporation - Tucson AZ - 1088308

Test: Volatile Organic Compounds by Method 8260B
Project: Holloman AFB
Instrument ID: VOCMS7
Method Name : V807K24N.M

Relative Response Factor Summary

Compound Name	Level .25	Level .5	Level 1	Level 2	Level 5.0	Level 10	Level 25	Level 40	Level 75	Average RRF	%RSD
1,1,1,2-TETRACHLOROETHANE	1.312	1.466	1.510	1.454	1.332	1.357	1.418	1.371	1.304	1.384518	4.91
ETHYLBENZENE	2.939	2.877	2.844	2.827	2.463	2.739	2.803	2.730	2.595	2.724073	5.70
M&P-XYLENE	4.211	4.059	3.664	3.553	3.162	3.264	3.386	3.297	3.126	3.451851	11.16
O-XYLENE	3.575	3.779	3.588	3.482	3.098	3.187	3.363	3.332	3.168	3.366873	6.40
STYRENE	5.215	5.913	5.775	5.412	4.979	5.208	5.488	5.427	5.131	5.369640	5.20
Bromoform	0.655	1.067	0.857	0.999	0.907	0.896	0.923	0.943	0.896	0.914000	11.27
Isopropylbenzene	8.619	9.164	9.042	8.680	7.722	8.110	8.520	8.428	7.952	8.397252	5.55
4-BROMOFLUOROBENZENE	2.861	2.760	2.798	2.736	2.747	2.742	2.818	2.787	2.831	2.792403	1.48
Bromobenzene	4.128	4.298	3.719	3.724	3.380	3.439	3.537	3.482	3.281	3.597081	9.62
1,1,2,2-TETRACHLOROETHANE	2.881	2.756	2.573	2.499	2.146	2.096	2.126	2.192	2.016	2.319035	13.03
1,2,3-TRICHLOROPROPANE		0.628	0.628	0.527	0.530	0.505	0.500	0.513	0.476	0.531509	9.99
TRANS-1,4-DICHLORO-2-BUTENE		0.617	0.541	0.603	0.534	0.501	0.545	0.550	0.524	0.549722	6.37
n-Propylbenzene	10.73	10.71	10.67	10.41	9.14	9.55	10.21	9.99	9.53	9.98957	5.95
4-ETHYLTOLUENE	9.824	9.164	8.804	8.695	7.499	7.800	8.222	8.138	7.707	8.303356	8.90
2-Chlorotoluene	1.982	2.039	2.087	1.993	1.659	1.726	1.819	1.799	1.700	1.839298	8.52
4-Chlorotoluene	7.156	6.846	6.481	6.276	5.566	5.758	6.078	6.043	5.743	6.151283	8.11
1,3,5-Trimethylbenzene	7.485	7.719	7.177	7.241	6.104	6.475	6.760	6.643	6.271	6.760126	8.41
tert-Butylbenzene	5.483	5.847	6.164	5.930	5.199	5.484	5.743	5.776	5.504	5.652434	4.88
1,2,4-Trimethylbenzene	8.693	8.139	7.595	7.338	6.436	6.562	6.789	6.737	6.440	7.062626	11.07
sec-Butylbenzene	9.50	10.14	9.59	9.80	8.49	8.79	9.30	9.20	8.77	9.20482	5.70
1,3-DICHLOROBENZENE	3.891	3.852	3.906	3.734	3.430	3.479	3.666	3.651	3.521	3.661894	4.61
p-Isopropyltoluene	7.523	8.022	7.986	7.724	6.767	7.071	7.334	7.330	6.953	7.312794	6.37
DICYCLOPENTADIENE	8.165	8.871	8.771	8.972	7.753	8.028	8.467	8.264	7.728	8.211851	6.25
1,4-DICHLOROBENZENE	1.298	1.313	1.344	1.309	1.176	1.215	1.253	1.281	1.193	1.255794	4.56
1,2,3-TRIMETHYLBENZENE	2.920	2.726	2.634	2.560	2.268	2.272	2.359	2.407	2.211	2.441503	9.68
1,2-DICHLOROBENZENE	1.230	1.304	1.290	1.242	1.176	1.168	1.221	1.279	1.177	1.230559	3.78
n-Butylbenzene	2.635	2.857	2.739	2.663	2.355	2.418	2.559	2.630	2.418	2.556648	6.48
1,2-Dibromo-3-chloropropane		0.124	0.133	0.148	0.142	0.146	0.149	0.171	0.151	0.149060	9.59
1,2,4-Trichlorobenzene	0.721	0.896	0.797	0.813	0.732	0.724	0.767	0.820	0.733	0.767723	7.77

12065 Lebanon Rd
Mt. Juliet, TN 37122
(615) 758-5858
(800) 767-5859
Fax (615) 758-5859
Tax I.D 62-0814289
Est. 1970

Quality Control Summary
SDG: L735181
URS Corporation - Tucson AZ - 1088308

Test: Volatile Organic Compounds by Method 8260B
Project: Holloman AFB
Instrument ID: VOCMS7
Method Name : V807K24N.M

Relative Response Factor Summary

Compound Name	Level .25	Level .5	Level 1	Level 2	Level 5.0	Level 10	Level 25	Level 40	Level 75	Average RRF	%RSD
HEXACHLORO-1,3-BUTADIENE	0.300	0.426	0.401	0.362	0.329	0.353	0.365	0.396	0.360	0.364552	9.47
Naphthalene	2.305	2.396	2.297	2.305	2.120	2.105	2.162	2.403	2.140	2.233375	5.05
1,2,3-Trichlorobenzene	0.646	0.777	0.765	0.702	0.679	0.644	0.666	0.733	0.652	0.687567	7.38
1-Methylnaphthalene	1.167	1.071	0.986	1.017	0.863	0.907	0.942	1.073	0.946	0.987229	9.11
2-Methylnaphthalene	0.676	0.826	0.800	0.821	0.774	0.739	0.767	0.868	0.765	0.776025	7.03
ETHANOL										0.007935	4.29
Bromoethane										0.317060	3.95
2-PROPANOL										0.044106	13.54
Methyl Acetate										0.329024	3.06
ACETONITRILE										0.067276	2.30
ALLYL CHLORIDE										0.250318	2.19
tert-BUTYL ALCOHOL										0.091829	5.62
chloroprene										0.440800	2.68
ETHYL TERT-BUTYL ETHER										1.549674	1.83
PROPIONITRILE										0.069822	3.71
Ethyl Acetate										0.491176	3.28
METHACRYLONITRILE										0.207153	4.86
Cyclohexane										0.637700	2.05
tert-butyl formate										0.444887	2.41
ISOBUTANOL										0.029901	3.33
t-Amyl Alcohol										0.054060	5.62
TERT-AMYL METHYL ETHER										1.322539	5.53
N-BUTANOL										0.010227	2.62
Methyl Cyclohexane										0.507748	25.75
2-nitropropane										0.075143	13.57
METHYL METHACRYLATE										0.233314	3.11
1,4-DIOXANE										0.003514	3.84
n-octane										0.244017	4.30
3,3-DIMETHYL-1-BUTANOL										0.031897	4.18

12065 Lebanon Rd
Mt. Juliet, TN 37122
(615) 758-5858
(800) 767-5859
Fax (615) 758-5859
Tax I.D 62-0814289
Est. 1970

Quality Control Summary
SDG: L735181
URS Corporation - Tucson AZ - 1088308

Test: Volatile Organic Compounds by Method 8260B
Project: Holloman AFB
Instrument ID: VOCMS7
Method Name : V807K24N.M

Relative Response Factor Summary

Compound Name	Level .25	Level .5	Level 1	Level 2	Level 5.0	Level 10	Level 25	Level 40	Level 75	Average RRF	%RSD
ETHYL METHACRYLATE										2.261416	2.02
CIS-1,4-DICHLORO-2-BUTENE										0.516550	1.72
Cyclohexanone										0.000000	0.00
PENTACHLOROETHANE										1.077488	3.26
Hexachloroethane										1.268945	3.76

12065 Lebanon Rd
Mt. Juliet, TN 37122
(615) 758-5858
(800) 767-5859
Fax (615) 758-5859
Tax I.D 62-0814289
Est. 1970

Quality Control Summary
SDG: L735181
URS Corporation - Tucson AZ - 1088308

Test: Volatile Organic Compounds by Method 8260B
Project: Holloman AFB
Instrument ID: VOCMS20
Method Name : V820K23N.M

Relative Response Factor Summary

Compound Name	Level .25	Level .5	Level 1	Level 2	Level 5.0	Level 10	Level 25	Level 40	Level 75	Average RRF	%RSD
TPH (GC/MS) LOW FRACTION										0.000000	0.00
PROPENE				0.236	0.181	0.192	0.175	0.172	0.178	0.184855	11.80
DICHLORODIFLUOROMETHANE	0.701	0.748	0.637	0.664	0.631	0.658	0.634	0.655	0.663	0.659327	5.52
CHLOROMETHANE	1.274	1.157	1.138	1.120	1.077	1.085	1.041	1.062	1.077	1.103495	6.15
VINYL CHLORIDE	0.857	0.982	0.968	0.979	0.911	0.947	0.890	0.924	0.921	0.925281	4.33
1,3-BUTADIENE	0.870	0.806	0.793	0.715	0.693	0.683	0.667	0.691	0.704	0.726447	9.12
BROMOMETHANE	0.748	0.636	0.587	0.594	0.557	0.572	0.526	0.543	0.551	0.580908	11.03
CHLOROETHANE		0.121	0.180	0.194	0.165	0.179	0.162	0.164	0.163	0.164754	11.42
TRICHLOROFLUOROMETHANE	0.907	0.942	0.841	0.873	0.836	0.857	0.815	0.833	0.845	0.856087	4.46
DICHLOROFLUOROMETHANE	1.324	1.413	1.308	1.248	1.193	1.243	1.168	1.198	1.213	1.243407	6.10
ETHYL ETHER	0.726	0.717	0.837	0.676	0.691	0.703	0.682	0.678	0.677	0.701073	7.07
ACROLEIN	0.126	0.117	0.111	0.105	0.109	0.116	0.112	0.114	0.111	0.112378	5.27
1,1-DICHLOROETHENE	1.164	1.012	1.112	1.125	1.024	1.040	1.019	1.025	1.032	1.051869	5.27
1,1,2-TRICHLOROTRIFLUOROETHANE	0.573	0.683	0.585	0.571	0.577	0.545	0.552	0.567	0.579	0.578320	6.41
ACETONE			0.267	0.228	0.206	0.203	0.195	0.198	0.190	0.204617	13.78
IODOMETHANE	0.991	1.094	1.092	1.031	1.000	1.021	0.988	1.003	1.022	1.026890	3.73
CARBON DISULFIDE	2.839	2.723	2.677	2.555	2.420	2.428	2.391	2.432	2.444	2.519193	6.29
METHYLENE CHLORIDE	0.880	0.895	0.953	0.892	0.855	0.873	0.838	0.841	0.848	0.866616	4.34
ACRYLONITRILE	0.261	0.274	0.280	0.264	0.265	0.279	0.283	0.282	0.281	0.274600	2.91
n-Hexane	0.876	0.847	0.820	0.773	0.759	0.740	0.743	0.767	0.747	0.777059	6.25
TRANS-1,2-DICHLOROETHENE	0.831	0.803	0.843	0.777	0.740	0.749	0.726	0.749	0.762	0.770634	5.09
METHYL TERT-BUTYL ETHER	1.972	2.236	2.181	1.989	2.040	2.123	2.134	2.163	2.144	2.111081	3.87
1,1-DICHLOROETHANE	1.601	1.498	1.563	1.528	1.494	1.509	1.457	1.486	1.483	1.505273	2.98
VINYL ACETATE	1.127	1.236	1.311	1.167	1.246	1.233	1.211	1.194	1.162	1.191912	5.28
DI-ISOPROPYL ETHER	2.898	2.972	3.078	3.017	2.987	3.087	3.084	3.153	3.179	3.072117	3.12
2,2-Dichloropropane	0.844	0.703	0.739	0.806	0.745	0.742	0.705	0.693	0.718	0.731005	7.32
CIS-1,2-DICHLOROETHENE	0.842	0.867	0.869	0.824	0.831	0.870	0.836	0.846	0.845	0.845924	1.93
2-BUTANONE (MEK)	0.060	0.090	0.084	0.076	0.083	0.083	0.085	0.087	0.085	0.081839	9.84

12065 Lebanon Rd
Mt. Juliet, TN 37122
(615) 758-5858
(800) 767-5859
Fax (615) 758-5859
Tax I.D 62-0814289
Est. 1970

Quality Control Summary
SDG: L735181
URS Corporation - Tucson AZ - 1088308

Test: Volatile Organic Compounds by Method 8260B
Project: Holloman AFB
Instrument ID: VOCMS20
Method Name : V820K23N.M

Relative Response Factor Summary

Compound Name	Level .25	Level .5	Level 1	Level 2	Level 5.0	Level 10	Level 25	Level 40	Level 75	Average RRF	%RSD
BROMOCHLOROMETHANE	0.537	0.458	0.483	0.464	0.445	0.458	0.438	0.450	0.454	0.460799	6.16
TETRAHYDROFURAN	0.288	0.260	0.283	0.234	0.234	0.235	0.240	0.238	0.230	0.245619	8.77
CHLOROFORM	1.407	1.495	1.437	1.346	1.354	1.351	1.317	1.327	1.331	1.363297	4.33
DIBROMOFLUOROMETHANE	0.554	0.560	0.557	0.544	0.540	0.554	0.539	0.544	0.552	0.548371	1.43
1,1,1-TRICHLOROETHANE	1.061	0.922	1.019	0.978	0.931	0.943	0.912	0.933	0.950	0.953869	4.96
CARBON TETRACHLORIDE	0.724	0.789	0.781	0.788	0.828	0.735	0.735	0.743	0.770	0.764532	4.06
1,1-Dichloropropene	1.055	1.108	0.957	0.999	1.019	1.001	1.011	1.038	1.048	1.027152	3.83
2,2,4-TRIMETHYLPENTANE	3.265	3.409	2.997	3.002	3.056	3.145	3.060	3.198	3.210	3.146702	4.02
HEPTANE	1.531	1.384	1.391	1.223	1.354	1.394	1.371	1.479	1.448	1.409812	5.89
BENZENE	3.627	3.727	3.693	3.510	3.380	3.404	3.313	3.393	3.375	3.464597	4.38
1,2-DICHLOROETHANE	1.048	0.985	1.055	0.934	0.983	0.970	0.956	0.963	0.954	0.975555	4.25
TRICHLOROETHENE	0.337	0.378	0.392	0.383	0.377	0.376	0.365	0.370	0.369	0.370964	3.77
1,2-DICHLOROPROPANE	0.323	0.328	0.368	0.348	0.327	0.346	0.334	0.334	0.336	0.337228	3.78
DIBROMOMETHANE	0.187	0.222	0.228	0.238	0.219	0.223	0.219	0.220	0.220	0.218717	5.65
BROMODICHLOROMETHANE	0.687	0.555	0.569	0.538	0.539	0.541	0.534	0.548	0.549	0.559629	7.73
a,a,a-Trifluorotoluene	0.530	0.525	0.529	0.528	0.511	0.512	0.502	0.491	0.498	0.506550	4.13
2-CHLOROETHYL VINYL ETHER					0.120	0.141	0.163	0.152	0.174	0.157101	13.34
CIS-1,3-DICHLOROPROPENE	0.602	0.662	0.680	0.670	0.689	0.715	0.712	0.729	0.718	0.692868	5.49
4-METHYL-2-PENTANONE (MIBK)	0.121	0.127	0.133	0.127	0.134	0.145	0.150	0.152	0.151	0.139802	8.07
TOLUENE-D8	1.288	1.283	1.293	1.301	1.269	1.279	1.279	1.256	1.264	1.267614	2.29
TOLUENE	2.723	2.300	2.049	1.947	1.914	1.881	1.784	1.788	1.763	1.971120	15.11
TRANS-1,3-DICHLOROPROPENE	0.119	0.136	0.159	0.117	0.132	0.141	0.145	0.146	0.144	0.139262	8.89
1,1,2-TRICHLOROETHANE	1.778	2.227	2.022	1.997	1.993	2.030	1.928	2.009	1.938	1.986109	5.33
TETRACHLOROETHENE	1.645	1.501	1.534	1.488	1.466	1.506	1.425	1.477	1.446	1.496976	3.85
1,3-Dichloropropane	4.674	4.145	4.141	3.721	3.919	3.900	3.735	3.856	3.717	3.956501	7.06
2-HEXANONE	0.662	0.649	0.649	0.658	0.731	0.808	0.841	0.867	0.868	0.771638	13.18
CHLORODIBROMOMETHANE	1.893	1.977	1.836	1.824	1.882	1.929	1.911	1.969	1.943	1.925618	3.31
1,2-DIBROMOETHANE	1.727	1.836	1.857	1.821	1.796	1.887	1.840	1.896	1.853	1.845605	2.80
CHLOROBENZENE	7.028	6.715	6.213	6.291	6.465	6.702	6.374	6.634	6.401	6.540083	3.51

12065 Lebanon Rd
Mt. Juliet, TN 37122
(615) 758-5858
(800) 767-5859
Fax (615) 758-5859
Tax I.D 62-0814289
Est. 1970

Quality Control Summary
SDG: L735181
URS Corporation - Tucson AZ - 1088308

Test: Volatile Organic Compounds by Method 8260B
Project: Holloman AFB
Instrument ID: VOCMS20
Method Name : V820K23N.M

Relative Response Factor Summary

Compound Name	Level .25	Level .5	Level 1	Level 2	Level 5.0	Level 10	Level 25	Level 40	Level 75	Average RRF	%RSD
1,1,1,2-TETRACHLOROETHANE	2.146	1.960	1.924	1.901	1.954	2.031	1.902	1.996	1.998	1.981810	3.50
ETHYLBENZENE	3.398	3.065	3.133	3.007	3.180	3.504	3.452	3.575	3.525	3.369545	6.82
M&P-XYLENE	4.218	4.026	3.994	3.986	4.246	4.516	4.322	4.502	4.416	4.290983	4.95
O-XYLENE	3.812	3.926	3.550	3.691	3.975	4.248	4.137	4.375	4.307	4.061824	7.13
STYRENE			5.009	5.211	6.259	7.077	7.021	7.383	7.193	6.657048	14.20
Bromoform	0.700	0.925	1.116	0.975	1.048	1.072	1.053	1.111	1.088	1.029197	12.22
Isopropylbenzene	9.10	8.77	9.56	9.28	10.18	10.89	10.61	11.20	11.06	10.22678	8.80
4-BROMOFLUOROBENZENE	2.606	2.639	2.615	2.630	2.638	2.684	2.640	2.670	2.619	2.622983	1.81
Bromobenzene	5.954	5.849	5.618	5.548	5.552	5.748	5.352	5.474	5.340	5.554978	4.01
1,1,2,2-TETRACHLOROETHANE	2.182	2.548	2.730	2.571	2.546	2.757	2.576	2.620	2.531	2.552658	5.82
1,2,3-TRICHLOROPROPANE	0.533	0.711	0.775	0.721	0.736	0.790	0.726	0.729	0.705	0.712963	9.23
TRANS-1,4-DICHLORO-2-BUTENE		0.716	0.687	0.737	0.742	0.770	0.763	0.782	0.756	0.748181	3.84
n-Propylbenzene	14.85	13.94	12.83	13.02	13.36	14.06	13.55	13.93	13.77	13.68314	4.17
4-ETHYLTOLUENE	11.30	10.38	10.75	9.97	10.57	11.33	10.92	11.43	11.17	10.89284	4.28
2-Chlorotoluene	2.512	2.668	2.490	2.472	2.594	2.696	2.524	2.593	2.507	2.549634	3.13
4-Chlorotoluene	8.694	8.058	8.210	8.264	8.446	8.873	8.548	8.842	8.590	8.502878	3.14
1,3,5-Trimethylbenzene	9.134	8.225	8.570	8.666	9.019	9.734	9.330	9.650	9.549	9.152332	5.46
tert-Butylbenzene	6.805	6.595	6.597	6.601	7.092	7.546	7.338	7.648	7.611	7.145857	6.23
1,2,4-Trimethylbenzene	9.278	7.956	8.157	8.656	9.176	9.918	9.665	9.853	9.721	9.211881	7.42
sec-Butylbenzene	10.37	10.57	10.44	10.76	11.72	12.59	11.90	12.50	12.41	11.56038	7.62
1,3-DICHLOROBENZENE	5.069	4.941	4.891	4.604	4.803	5.070	4.797	4.908	4.746	4.831675	3.51
p-Isopropyltoluene	7.56	7.80	7.92	8.63	9.26	9.98	9.64	10.12	10.03	9.13507	10.83
DICYCLOPENTADIENE	9.28	10.13	10.53	11.07	11.91	12.75	12.23	12.86	12.92	11.72390	10.94
1,4-DICHLOROBENZENE	2.336	2.204	2.145	2.021	2.024	1.998	1.944	1.990	1.966	2.056532	5.92
1,2,3-TRIMETHYLBENZENE	4.098	3.738	4.046	3.998	3.996	4.104	3.998	4.176	4.149	4.057794	3.21
1,2-DICHLOROBENZENE	2.039	1.959	1.766	1.839	1.733	1.778	1.758	1.815	1.798	1.825596	5.06
n-Butylbenzene	4.199	3.765	3.493	3.604	3.745	3.826	3.874	4.068	4.030	3.857599	5.32
1,2-Dibromo-3-chloropropane		0.103	0.152	0.127	0.145	0.148	0.164	0.158	0.161	0.148913	13.70
1,2,4-Trichlorobenzene	1.170	1.048	1.029	0.929	1.035	1.012	1.081	1.116	1.088	1.063793	5.98

12065 Lebanon Rd
Mt. Juliet, TN 37122
(615) 758-5858
(800) 767-5859
Fax (615) 758-5859
Tax I.D 62-0814289
Est. 1970

Quality Control Summary
SDG: L735181
URS Corporation - Tucson AZ - 1088308

Test: Volatile Organic Compounds by Method 8260B
Project: Holloman AFB
Instrument ID: VOCMS20
Method Name : V820K23N.M

Relative Response Factor Summary

Compound Name	Level .25	Level .5	Level 1	Level 2	Level 5.0	Level 10	Level 25	Level 40	Level 75	Average RRF	%RSD
HEXACHLORO-1,3-BUTADIENE	0.567	0.587	0.545	0.528	0.560	0.557	0.540	0.561	0.565	0.553258	3.17
Naphthalene	3.153	2.548	2.399	2.268	2.341	2.531	2.753	2.904	2.895	2.698171	11.07
1,2,3-Trichlorobenzene	0.916	0.934	0.945	0.902	0.957	0.989	1.009	1.026	0.997	0.970296	4.32
1-Methylnaphthalene		1.286	1.245	1.131	1.136	1.266	1.503	1.570	1.558	1.388868	14.04
2-Methylnaphthalene	1.383	1.153	1.051	0.970	1.034	1.152	1.365	1.384	1.341	1.230002	13.05
ETHANOL										0.007565	9.60
Bromoethane										0.473093	5.53
2-PROPANOL										0.000000	0.00
Methyl Acetate										0.532230	5.26
ACETONITRILE										0.105414	5.35
ALLYL CHLORIDE										0.375877	5.60
tert-BUTYL ALCOHOL										0.117950	11.81
chloroprene										0.656369	5.06
ETHYL TERT-BUTYL ETHER										2.308566	5.05
PROPIONITRILE										0.104748	5.82
Ethyl Acetate										0.740472	5.33
METHACRYLONITRILE										0.307308	5.13
Cyclohexane										0.835936	6.35
tert-butyl formate										0.471657	10.06
ISOBUTANOL										0.038368	5.90
t-Amyl Alcohol										0.051723	8.78
TERT-AMYL METHYL ETHER										2.029213	4.86
N-BUTANOL										0.011295	8.72
Methyl Cyclohexane										0.679202	26.59
2-nitropropane										0.088716	5.66
METHYL METHACRYLATE										0.356259	5.95
1,4-DIOXANE										0.003580	7.63
n-octane										0.296598	5.59
3,3-DIMETHYL-1-BUTANOL										0.027507	7.34

12065 Lebanon Rd
Mt. Juliet, TN 37122
(615) 758-5858
(800) 767-5859
Fax (615) 758-5859
Tax I.D 62-0814289
Est. 1970

Quality Control Summary
SDG: L735181
URS Corporation - Tucson AZ - 1088308

Test: Volatile Organic Compounds by Method 8260B
Project: Holloman AFB
Instrument ID: VOCMS20
Method Name : V820K23N.M

Relative Response Factor Summary

Compound Name	Level .25	Level .5	Level 1	Level 2	Level 5.0	Level 10	Level 25	Level 40	Level 75	Average RRF	%RSD
ETHYL METHACRYLATE										2.998760	6.16
CIS-1,4-DICHLORO-2-BUTENE										0.799643	4.60
Cyclohexanone										0.000000	0.00
PENTACHLOROETHANE										1.395825	8.54
Hexachloroethane										1.719916	5.83

12065 Lebanon Rd
Mt. Juliet, TN 37122
(615) 758-5858
(800) 767-5859
Fax (615) 758-5859
Tax I.D 62-0814289
Est. 1970

Quality Control Summary
SDG: L735181
URS Corporation - Tucson AZ - 1088308

Test: Volatile Organic Compounds by Method 8260B
Project No: 23446543.0057AA
Project: Holloman AFB EPA ID: TN00003
Collection Date: 11/20/2014
Instrument ID: VOCMS20

Method Name : V820K23N.M Date : 11/25/2014
FileName : 1125_61.D Time : 10:19 PM

Continuing Calibration Verification

Compound Name	Average RRF	CCC RRF	%D	
Dichlorodifluoromethane	0.6593	0.6424	2.56	
Chloromethane	1.1035	1.0483	5.01	>0.1
Vinyl chloride	0.9253	0.8957	3.2	
Bromomethane	0.5809	0.5608	3.46	
Chloroethane	0.1648	0.1699	3.1	
Trichlorofluoromethane	0.8561	0.8389	2.01	
1,1-Dichloroethene	1.0519	0.9952	5.38	
Acetone	0.2046	0.1915	6.43	
Carbon Disulfide	2.5192	2.4186	3.99	
Methylene Chloride	0.8666	0.8850	2.12	
trans-1,2-Dichloroethene	0.7706	0.7402	3.95	
Methyl tert-butyl ether	2.1111	2.1089	0.1	
1,1-Dichloroethane	1.5053	1.4569	3.21	>0.1
2,2-Dichloropropane	0.7310	0.7272	0.52	
cis-1,2-Dichloroethene	0.8459	0.8201	3.05	
2-Butanone (MEK)	0.0818	0.0842	2.92	
Bromochloromethane	0.4608	0.4486	2.64	
Chloroform	1.3633	1.3137	3.64	
1,1,1-Trichloroethane	0.9539	0.9174	3.82	
Carbon tetrachloride	0.7645	0.7274	4.85	
1,1-Dichloropropene	1.0272	1.0083	1.83	
Benzene	3.4646	3.3341	3.77	
1,2-Dichloroethane	0.9756	0.9384	3.81	
Trichloroethene	0.3710	0.3650	1.6	
1,2-Dichloropropane	0.3372	0.3332	1.2	
Dibromomethane	0.2187	0.2176	0.5	
Bromodichloromethane	0.5596	0.5371	4.02	
cis-1,3-Dichloropropene	0.6929	0.7165	3.42	
4-Methyl-2-pentanone (MIBK)	0.1398	0.1461	4.53	
Toluene	1.9711	1.7915	9.11	
trans-1,3-Dichloropropene	0.1393	0.1428	2.53	

*** - calibrated by linear regression*

12065 Lebanon Rd
Mt. Juliet, TN 37122
(615) 758-5858
(800) 767-5859
Fax (615) 758-5859
Tax I.D 62-0814289
Est. 1970

Quality Control Summary
SDG: L735181
URS Corporation - Tucson AZ - 1088308

Test: Volatile Organic Compounds by Method 8260B
Project No: 23446543.0057AA
Project: Holloman AFB EPA ID: TN00003
Collection Date: 11/20/2014
Instrument ID: VOCMS20

Method Name : V820K23N.M Date : 11/25/2014
FileName : 1125_61.D Time : 10:19 PM

Continuing Calibration Verification

Compound Name	Average RRF	CCC RRF	%D	
1,1,2-Trichloroethane	1.9861	1.9357	2.54	
Tetrachloroethene	1.4970	1.5319	2.33	
1,3-Dichloropropane	3.9565	3.8428	2.87	
2-Hexanone	0.7716	0.8516	10.4	
Chlorodibromomethane	1.9256	1.9472	1.12	
1,2-Dibromoethane	1.8456	1.9102	3.5	
Chlorobenzene	6.5401	6.6263	1.32	>0.3
1,1,1,2-Tetrachloroethane	1.9818	2.0034	1.09	
Ethylbenzene	3.3695	3.5572	5.57	
m&p-Xylene	4.2910	4.5443	5.9	
o-Xylene	4.0618	4.3838	7.93	
Styrene	6.6570	7.0848	6.43	
Bromoform	1.0292	1.1192	8.75	>0.1
Isopropylbenzene	10.2268	11.1339	8.87	
Bromobenzene	5.5550	5.4452	1.98	
1,1,2,2-Tetrachloroethane	2.5527	2.6655	4.42	>0.3
1,2,3-Trichloropropane	0.7130	0.7425	4.14	
n-Propylbenzene	13.6831	14.0069	2.37	
2-Chlorotoluene	2.5496	2.5896	1.57	
4-Chlorotoluene	8.5029	8.8108	3.62	
1,3,5-Trimethylbenzene	9.1523	9.7722	6.77	
tert-Butylbenzene	7.1459	7.7412	8.33	
1,2,4-Trimethylbenzene	9.2119	9.9855	8.4	
sec-Butylbenzene	11.5604	12.5964	8.96	
1,3-Dichlorobenzene	4.8317	5.0349	4.21	
p-Isopropyltoluene	9.1351	10.2524	12.2	
1,4-Dichlorobenzene	2.0565	1.9849	3.48	
1,2-Dichlorobenzene	1.8256	1.8249	0.04	
n-Butylbenzene	3.8576	3.9718	2.96	
1,2-Dibromo-3-Chloropropane	0.1489	0.1552	4.23	
1,2,4-Trichlorobenzene	1.0638	1.0991	3.32	

*** - calibrated by linear regression*

12065 Lebanon Rd
Mt. Juliet, TN 37122
(615) 758-5858
(800) 767-5859
Fax (615) 758-5859
Tax I.D 62-0814289
Est. 1970

Quality Control Summary
SDG: L735181
URS Corporation - Tucson AZ - 1088308

Test: Volatile Organic Compounds by Method 8260B
Project No: 23446543.0057AA
Project: Holloman AFB EPA ID: TN00003
Collection Date: 11/20/2014
Instrument ID: VOCMS20

Method Name : V820K23N.M Date : 11/25/2014
FileName : 1125_61.D Time : 10:19 PM

Continuing Calibration Verification

Compound Name	Average RRF	CCC RRF	%D
Hexachloro-1,3-butadiene	0.5533	0.5768	4.26
Naphthalene	2.6982	2.7169	0.7
1,2,3-Trichlorobenzene	0.9703	1.0154	4.65

*** - calibrated by linear regression*

12065 Lebanon Rd
Mt. Juliet, TN 37122
(615) 758-5858
(800) 767-5859
Fax (615) 758-5859
Tax I.D 62-0814289
Est. 1970

Quality Control Summary
SDG: L735181
URS Corporation - Tucson AZ - 1088308

Test: Volatile Organic Compounds by Method 8260B
Project No: 23446543.0057AA
Project: Holloman AFB EPA ID: TN00003
Collection Date: 11/20/2014
Instrument ID: VOCMS7

Method Name : V807K24N.M Date : 11/29/2014
FileName : 1129_02.D Time : 4:02 AM

Continuing Calibration Verification

Compound Name	Average RRF	CCC RRF	%D	
Chloromethane	0.6839	0.5892	13.8	>0.1
Vinyl chloride	0.6773	0.6165	8.97	
1,1-Dichloroethene	0.7399	0.6663	9.95	
1,1-Dichloroethane	0.9630	0.8248	14.3	>0.1
Chloroform	0.9431	0.7564	19.8	
Benzene	2.2656	1.8174	19.8	
1,2-Dichloropropane	0.2245	0.2000	10.9	
Toluene	1.3292	1.1372	14.5	
Chlorobenzene	4.8116	4.6915	2.5	>0.3
Ethylbenzene	2.7241	2.6257	3.61	
Bromoform	0.9140	0.8387	8.24	>0.1
1,1,2,2-Tetrachloroethane	2.3190	1.9652	15.3	>0.3
1,2,4-Trimethylbenzene	7.0626	6.6236	6.22	

*** - calibrated by linear regression*

Raw Data

Environmental Science Corporation
12065 Lebanon Rd., Mt. Juliet, TN 37122

Injection Log

Instrument ID : VOCMS20
Computer Name : VOCCOMPAH
Released By : Ben Baker
Date Released : 11/25/2014 11:57:21 AM
Run ID : 112514
Signature : _____

#	File ID	Sample ID	Method	WG	Product	Matrix	Account #	State	Dil.	Mult.	Injected	Misc.
1	1125_01	INSTBLK	V820K23N						1	1	11/25/14 0108	"water IS/SURR14K01013"
2	1125_01T	INSTBLK VMS								1	11/25/14 0108	
3	1125_02	ICV VMS 25 PPB 14K24264	V820K23N						1	1	11/25/14 0127	"water IS/SURR14K01013"
3	1125_02-1	ICV VMS 25 PPB 14K24264	V820K23N						1	1	11/25/14 0127	"water IS/SURR14K01013"
4	1125_03	LCS	V820K23N	WG756630	V624	GW			1	1	11/25/14 0157	"water IS/SURR14K01013/SPK14K24265"
4	1125_03-2	LCS	V820K23N	WG756630	V8260	GW	URSTAZ		1	1	11/25/14 0157	"water IS/SURR14K01013/SPK14K24265"
4	1125_03-3	LCS	V820K23N	WG756630	V8260/465	GW	MSAPRODMN		1	1	11/25/14 0157	"water IS/SURR14K01013/SPK14K24265"
5	1125_04	LCSD	V820K23N	WG756630	V624	GW			1	1	11/25/14 0216	"water IS/SURR14K01013/SPK14K24265"
5	1125_04-2	LCSD	V820K23N	WG756630	V8260	GW	URSTAZ		1	1	11/25/14 0216	"water IS/SURR14K01013/SPK14K24265"
5	1125_04-3	LCSD	V820K23N	WG756630	V8260/465	GW	MSAPRODMN		1	1	11/25/14 0216	"water IS/SURR14K01013/SPK14K24265"
6	1125_05	MS	V820K23N	WG756630	V624	GW			1	1	11/25/14 0256	"water IS/SURR14K01013/SPK14K24265"
6	1125_05-2	MS	V820K23N	WG756630	V8260	GW	URSTAZ		1	1	11/25/14 0256	"water IS/SURR14K01013/SPK14K24265"
6	1125_05-3	MS	V820K23N	WG756630	V8260/465	GW	MSAPRODMN		1	1	11/25/14 0256	"water IS/SURR14K01013/SPK14K24265"
7	1125_06	MSD	V820K23N	WG756630	V624	GW			1	1	11/25/14 0314	"water IS/SURR14K01013/SPK14K24265"
7	1125_06-2	MSD	V820K23N	WG756630	V8260	GW	URSTAZ		1	1	11/25/14 0314	"water IS/SURR14K01013/SPK14K24265"
7	1125_06-3	MSD	V820K23N	WG756630	V8260/465	GW	MSAPRODMN		1	1	11/25/14 0314	"water IS/SURR14K01013/SPK14K24265"
8	1125_07	INSTBLK	V820K23N						1	1	11/25/14 0332	"water IS/SURR14K01013"
9	1125_08	INSTBLK	V820K23N						1	1	11/25/14 0350	"water IS/SURR14K01013"
10	1125_09	INSTBLK	V820K23N						1	1	11/25/14 0442	"water IS/SURR14K01013"
11	1125_10	BLANK	V820K23N	WG756630	V624	GW			1	1	11/25/14 0501	"water IS/SURR14K01013"
11	1125_10-2	BLANK	V820K23N	WG756630	V8260	GW	URSTAZ		1	1	11/25/14 0501	"water IS/SURR14K01013"
11	1125_10-3	BLANK	V820K23N	WG756630	V8260/465	GW	MSAPRODMN		1	1	11/25/14 0501	"water IS/SURR14K01013"

Environmental Science Corporation
12065 Lebanon Rd., Mt. Juliet, TN 37122

Injection Log

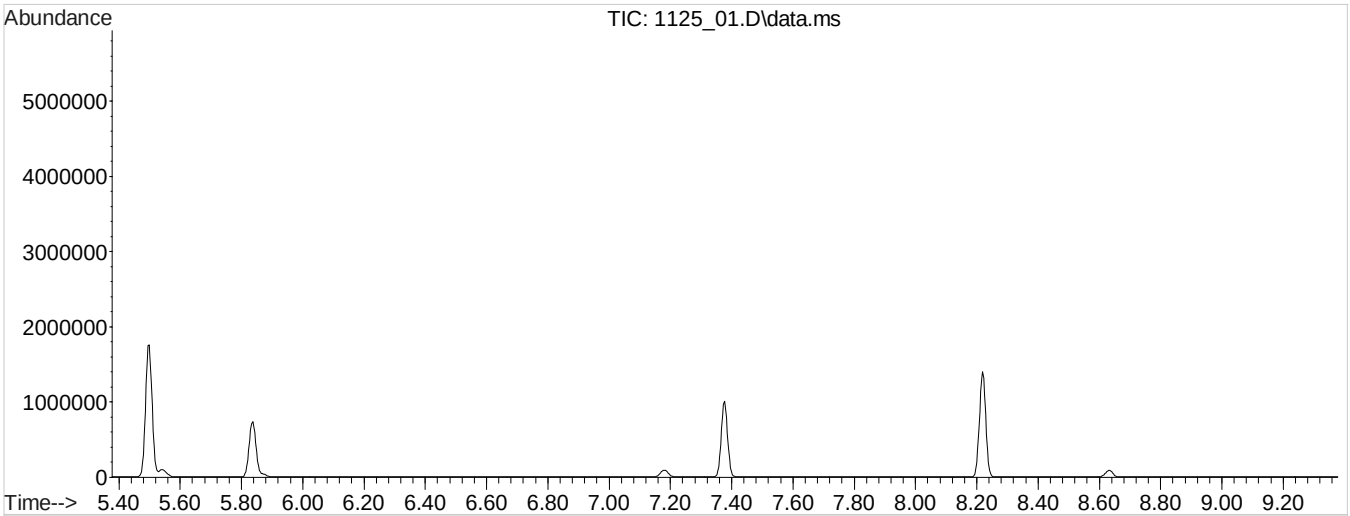
Instrument ID : VOCMS20
Computer Name : VOCCOMPAH
Released By : Ben Baker
Date Released : 11/25/2014 11:57:21 AM
Run ID : 112514
Signature : _____

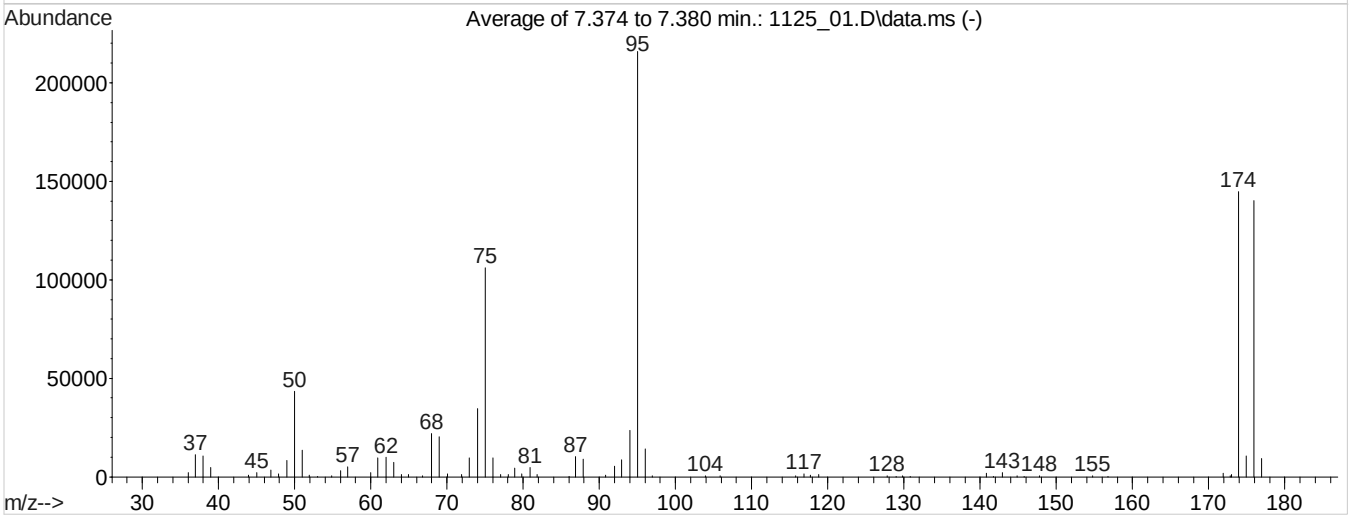
#	File ID	Sample ID	Method	WG	Product	Matrix	Account #	State	Dil.	Mult.	Injected	Misc.
12	1125_11	L734231-26 (TB)	V820K23N	WG756630	V8260	GW	URSTAZ	AZ	1	1	11/25/14 0533	"water IS/SURR14K01013"
13	1125_12	L735238-02 (TB)	V820K23N	WG756630	V8260/465	GW	ERMSAZ	MN	1	1	11/25/14 0551	"water IS/SURR14K01013"
14	1125_13	L735404-04 (TB)	V820K23N	WG756630	V8260/465	GW	ERMSAZ	MN	1	1	11/25/14 0609	"water IS/SURR14K01013"
15	1125_14	L734185-03	V820K23N	WG756630	V8260AZ	GW	SECORTAZ	AZ	1	1	11/25/14 0627	"water IS/SURR14K01013"
16	1125_15	DNR L734185-02	V820K23N	WG756630					50	50	11/25/14 0645	"water IS/SURR14K01013"
17	1125_16	L734210-06	V820K23N	WG756630	V8260/465	GW	MSAPRODMN	MN	1	1	11/25/14 0703	"water IS/SURR14K01013"
18	1125_17	L734406-13	V820K23N	WG756630	V8260	GW	SHAWILSLMO	MO	1	1	11/25/14 0721	"water IS/SURR14K01013"
19	1125_18	L734406-14	V820K23N	WG756630	V8260	GW	SHAWILSLMO	MO	1	1	11/25/14 0739	"water IS/SURR14K01013"
20	1125_19	L734406-16	V820K23N	WG756630	V8260	GW	SHAWILSLMO	MO	1	1	11/25/14 0758	"water IS/SURR14K01013"
21	1125_20	L734406-17	V820K23N	WG756630	V8260	GW	SHAWILSLMO	MO	1	1	11/25/14 0816	"water IS/SURR14K01013"
22	1125_21	DNR L734406-19	V820K23N	WG756630					10	10	11/25/14 0835	"water IS/SURR14K01013"
23	1125_22	L734406-20	V820K23N	WG756630	V8260	GW	SHAWILSLMO	MO	1	1	11/25/14 0853	"water IS/SURR14K01013"
24	1125_23	L734622-01	V820K23N	WG756630	V8260/465	GW	PEERENGMN	MN	1	1	11/25/14 0912	"water IS/SURR14K01013"
25	1125_24	L734635-01	V820K23N	WG756630	V8260AZ	GW	WASMANTAZ	AZ	1	1	11/25/14 0930	"water IS/SURR14K01013"
26	1125_25	L734639-01	V820K23N	WG756630	V8260AZ	GW	WASMANTAZ	AZ	1	1	11/25/14 0948	"water IS/SURR14K01013"
27	1125_26	L734667-04	V820K23N	WG756630	V8260AP9	GW	AQUAOPKS	KS	1	1	11/25/14 1006	"water IS/SURR14K01013"
28	1125_27	L734711-01	V820K23N	WG756630	V8260	GW	HALALDRNY	TN	1	1	11/25/14 1024	"water IS/SURR14K01013"
29	1125_28	L734726-01	V820K23N	WG756630	V624	GW	ARCAHCO	CO	1	1	11/25/14 1042	"water IS/SURR14K01013"
30	1125_29	L735236-01	V820K23N	WG756630	V8260AZ	GW	WASMANTAZ	AZ	1	1	11/25/14 1100	"water IS/SURR14K01013"
31	1125_30	L735237-01	V820K23N	WG756630	V8260AZ	GW	WASMANTAZ	AZ	1	1	11/25/14 1118	"water IS/SURR14K01013"

Data Path : C:\MSDchem\1\data\112514\
Data File : 1125 01.D
Acq On : 25 Nov 2014 1:08 am
Operator : 644
Sample : INSTBLK VMS
Misc : water IS/SURR14K01013
ALS Vial : 1 Sample Multiplier: 1

Integration File: RTEINT.P

Method : C:\MSDchem\1\methods\V820K23N.M
Title : Env. Science Corp. 8260B/6210D/624 - VOCMS20
Last Update : Mon Nov 24 14:32:41 2014





AutoFind: Scans 2265, 2266, 2267; Background Corrected with Scan 2252

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	20.0	43280	PASS
75	95	30	60	49.2	106163	PASS
95	95	100	100	100.0	215979	PASS
96	95	5	9	6.6	14152	PASS
173	174	0.00	2	0.9	1248	PASS
174	95	50	150	67.0	144811	PASS
175	174	5	9	7.3	10542	PASS
176	174	95	101	96.9	140309	PASS
177	176	5	9	6.7	9367	PASS

Quantitation Report (QT Reviewed)

Data Path : C:\MSDchem\1\data\112514\
Data File : 1125 02.D
Acq On : 25 Nov 2014 1:27 am
Operator : 644
Sample : ICV VMS 25 ppb 14K24264
Misc : water IS/SURR14K01013
ALS Vial : 2 Sample Multiplier: 1
InstName : VOCMS20

Quant Time: Nov 25 11:36:46 2014
Quant Method : C:\MSDchem\1\methods\V820K23N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS20
QLast Update : Mon Nov 24 14:32:41 2014
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 8260-PENTAFLUOROBENZENE	4.341	168	469541	40.0000000 ppb	0.00
41) 8260-1,4-DIFLUOROBENZENE	4.669	114	857367	40.0000000 ppb	0.00
53) 8260-2-BROMO-1-CHLOROP...	5.836	79	146081	40.0000000 ppb	0.00
84) 8260-1,4-DICHLOROBENZE...	8.219	152	369245	40.0000000 ppb	0.00
96) AP9-PENTAFLUOROBENZENE	4.341	168	469541	40.0000000 ppb	0.00
114) AP9-1,4-DIFLUOROBENZENE	4.669	114	857367	40.0000000 ppb	0.00
122) AP9-2-BROMO-1-CHLOROPR...	5.836	79	146081	40.0000000 ppb	# 0.00
128) AP9-1,4-DICHLOROBENZEN...	8.219	152	369245	40.0000000 ppb	0.00
System Monitoring Compounds					
33) DIBROMOFLUOROMETHANE	4.107	111	247452	38.4417681 ppb	0.00
Spiked Amount 40.000	Range 78 - 121		Recovery = 96.10%		
46) a,a,a-Trifluorotoluene	5.036	146	456994	42.0902376 ppb	0.00
Spiked Amount 40.000	Range 85 - 114		Recovery = 105.23%		
50) TOLUENE-D8	5.499	98	1112761	40.9551220 ppb	0.00
Spiked Amount 40.000	Range 89 - 111		Recovery = 102.39%		
68) 4-BROMOFLUOROBENZENE	7.377	95	376282	39.2811471 ppb	0.00
Spiked Amount 40.000	Range 71 - 126		Recovery = 98.20%		
Target Compounds					Qvalue
2) TPH (GC/MS) LOW FRACTION	4.096	TIC	3893169	No Calib	
3) PROPENE	1.673	41	58350	26.8903205 ppb	95
4) DICHLORODIFLUOROMETHANE	1.721	85	215716	27.8719974 ppb	99
5) CHLOROMETHANE	1.882	50	324646	25.0626080 ppb	100
6) VINYL CHLORIDE	1.956	62	281371	25.9055161 ppb	99
7) 1,3-BUTADIENE	1.968	39	214665	25.1734996 ppb	100
8) BROMOMETHANE	2.213	94	156810	22.9960254 ppb	99
9) CHLOROETHANE	2.309	66	50429	26.0753562 ppb	97
10) TRICHLOROFLUOROMETHANE	2.402	101	275596	27.4246821 ppb	99
11) DICHLOROFLUOROMETHANE	2.441	67	363290	24.8900979 ppb	100
12) ETHYL ETHER	2.595	59	187293	22.7585440 ppb	99
13) ACROLEIN	2.956	56	167744	127.1607078 ppb	100
14) 1,1-DICHLOROETHENE	2.740	61	312996	25.3491671 ppb	97
15) 1,1,2-TRICHLOROTRIFLUO...	2.763	101	188110	27.7096122 ppb	98
16) ACETONE	3.129	43	488017	203.1792515 ppb	99
17) IODOMETHANE	2.846	142	1482977	123.0260216 ppb	100
18) CARBON DISULFIDE	2.775	76	723353	24.4610647 ppb	99
19) METHYLENE CHLORIDE	3.100	84	248937	24.4708532 ppb	99
20) ACRYLONITRILE	3.589	53	386821	120.0040865 ppb	99
21) n-Hexane	3.219	56	245311	26.8936182 ppb	89
22) TRANS-1,2-DICHLOROETHENE	3.193	96	224170	24.7808364 ppb	98
23) METHYL TERT-BUTYL ETHER	3.242	73	592346	23.9032545 ppb #	100
24) 1,1-DICHLOROETHANE	3.554	63	435105	24.6243819 ppb	100
25) VINYL ACETATE	3.669	43	2170495	155.1318788 ppb	100
26) DI-ISOPROPYL ETHER	3.441	45	868234	24.0760658 ppb	97
27) 2,2-Dichloropropane	3.923	77	235014	27.3879733 ppb	100
28) CIS-1,2-DICHLOROETHENE	3.859	96	244194	24.5917826 ppb	99
29) 2-BUTANONE (MEK)	4.171	72	153847	160.1453595 ppb	99
30) BROMOCHLOROMETHANE	3.978	130	129671	23.9727283 ppb	95
31) TETRAHYDROFURAN	4.103	42	62230	21.5836412 ppb	95
32) CHLOROFORM	4.000	83	389151	24.3172291 ppb	100
34) 1,1,1-TRICHLOROETHANE	4.132	97	291876	26.0672946 ppb	100
35) CARBON TETRACHLORIDE	4.094	119	230315	25.6633385 ppb	96

Quantitation Report (QT Reviewed)

Data Path : C:\MSDchem\1\data\112514\
Data File : 1125 02.D
Acq On : 25 Nov 2014 1:27 am
Operator : 644
Sample : ICV VMS 25 ppb 14K24264
Misc : water IS/SURR14K01013
ALS Vial : 2 Sample Multiplier: 1
InstName : VOCMS20

Quant Time: Nov 25 11:36:46 2014
Quant Method : C:\MSDchem\1\methods\V820K23N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS20
QLast Update : Mon Nov 24 14:32:41 2014
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units		Dev(Min)
36) 1,1-Dichloropropene	4.193	75	325325	26.9816882 ppb		99
37) 2,2,4-TRIMETHYLPENTANE	4.229	57	1068496	28.9270196 ppb		99
38) HEPTANE	4.267	43	489923	29.6041919 ppb	#	98
39) BENZENE	4.341	78	994761	24.4597801 ppb		100
40) 1,2-DICHLOROETHANE	4.460	62	275079	24.0210491 ppb		99
42) TRICHLOROETHENE	4.666	130	205271	25.8160207 ppb		99
43) 1,2-DICHLOROPROPANE	4.984	62	178615	24.7108512 ppb		99
44) DIBROMOMETHANE	4.930	93	116390	24.8270895 ppb		98
45) BROMODICHLOROMETHANE	5.007	83	289886	24.1668833 ppb		98
47) 2-CHLOROETHYL VINYL ETHER	5.319	63	408735	121.3826574 ppb		99
48) CIS-1,3-DICHLOROPROPENE	5.383	75	384693	25.9034132 ppb		100
49) 4-METHYL-2-PENTANONE (...	5.750	58	394414	131.6228829 ppb		98
51) TOLUENE	5.531	91	995901	23.5719926 ppb		99
52) TRANS-1,3-DICHLOROPROPENE	5.788	110	78909	26.4355631 ppb		100
54) 1,1,2-TRICHLOROETHANE	5.898	97	179503	24.7477012 ppb		98
55) TETRACHLOROETHENE	5.782	164	150463	27.5220650 ppb		98
56) 1,3-Dichloropropane	6.084	76	338421	23.4213709 ppb		100
57) 2-HEXANONE	6.290	58	449267	159.4253365 ppb		100
58) CHLORODIBROMOMETHANE	6.023	129	174255	24.7788567 ppb		98
59) 1,2-DIBROMOETHANE	6.200	107	167401	24.8362184 ppb		100
60) CHLOROBENZENE	6.534	112	610428	25.5574459 ppb		100
61) 1,1,1,2-TETRACHLOROETHANE	6.570	133	183237	25.3173020 ppb	#	98
62) ETHYLBENZENE	6.528	106	334197	27.1579837 ppb		99
63) M&P-XYLENE	6.624	106	846009	53.9864137 ppb		99
64) O-XYLENE	6.933	106	389223	26.2387839 ppb		100
65) STYRENE	6.971	104	647480	26.6324384 ppb		100
66) Bromoform	7.016	173	97841	26.0308713 ppb		99
67) Isopropylbenzene	7.148	105	1048726	28.0795004 ppb		99
69) Bromobenzene	7.463	77	494531	24.3768411 ppb		98
70) 1,1,2,2-TETRACHLOROETHANE	7.508	83	234712	25.1772857 ppb		99
71) 1,2,3-TRICHLOROPROPANE	7.627	110	63924	24.5506681 ppb		98
72) TRANS-1,4-DICHLORO-2-B...	7.640	53	69555	25.4558857 ppb		99
73) n-Propylbenzene	7.451	91	1334914	26.7136781 ppb		99
74) 4-ETHYLTOLUENE	7.528	105	1075399	27.0330223 ppb		99
75) 2-Chlorotoluene	7.589	126	238230	25.5849648 ppb		100
76) 4-Chlorotoluene	7.711	91	805298	25.9332479 ppb		99
77) 1,3,5-Trimethylbenzene	7.586	105	899260	26.9041795 ppb		98
78) tert-Butylbenzene	7.833	119	725672	27.8068839 ppb		100
79) 1,2,4-Trimethylbenzene	7.885	105	914821	27.1928088 ppb		99
80) sec-Butylbenzene	7.968	105	1206328	28.5732434 ppb		100
81) 1,3-DICHLOROBENZENE	8.164	146	459845	26.0603385 ppb		99
82) p-Isopropyltoluene	8.068	119	964888	28.9222023 ppb		99
83) DICYCLOPENTADIENE	8.074	66	1202848	28.0934396 ppb		99
85) 1,4-DICHLOROBENZENE	8.232	146	465910	24.5421068 ppb		98
86) 1,2,3-TRIMETHYLBENZENE	8.229	105	933446	24.9197982 ppb		99
87) 1,2-DICHLOROBENZENE	8.566	146	413477	24.5353395 ppb		99
88) n-Butylbenzene	8.402	91	980124	27.5238616 ppb		100
89) 1,2-Dibromo-3-chloropr...	9.206	157	35502	25.8264572 ppb		98
90) 1,2,4-Trichlorobenzene	9.753	180	258980	26.3726945 ppb		100
91) HEXACHLORO-1,3-BUTADIENE	9.708	225	139990	27.4103647 ppb		98
92) Naphthalene	10.029	128	609210	24.4592403 ppb		100
93) 1,2,3-Trichlorobenzene	10.184	180	236507	26.4049369 ppb		98
94) 1-Methylnaphthalene	10.897	142	319259	24.9016123 ppb		98
95) 2-Methylnaphthalene	11.032	142	289318	25.4809050 ppb		98

Quantitation Report (QT Reviewed)

Data Path : C:\MSDchem\1\data\112514\
Data File : 1125 02.D
Acq On : 25 Nov 2014 1:27 am
Operator : 644
Sample : ICV VMS 25 ppb 14K24264
Misc : water IS/SURR14K01013
ALS Vial : 2 Sample Multiplier: 1
InstName : VOCMS20

Quant Time: Nov 25 11:36:46 2014
Quant Method : C:\MSDchem\1\methods\V820K23N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS20
QLast Update : Mon Nov 24 14:32:41 2014
Response via : Initial Calibration

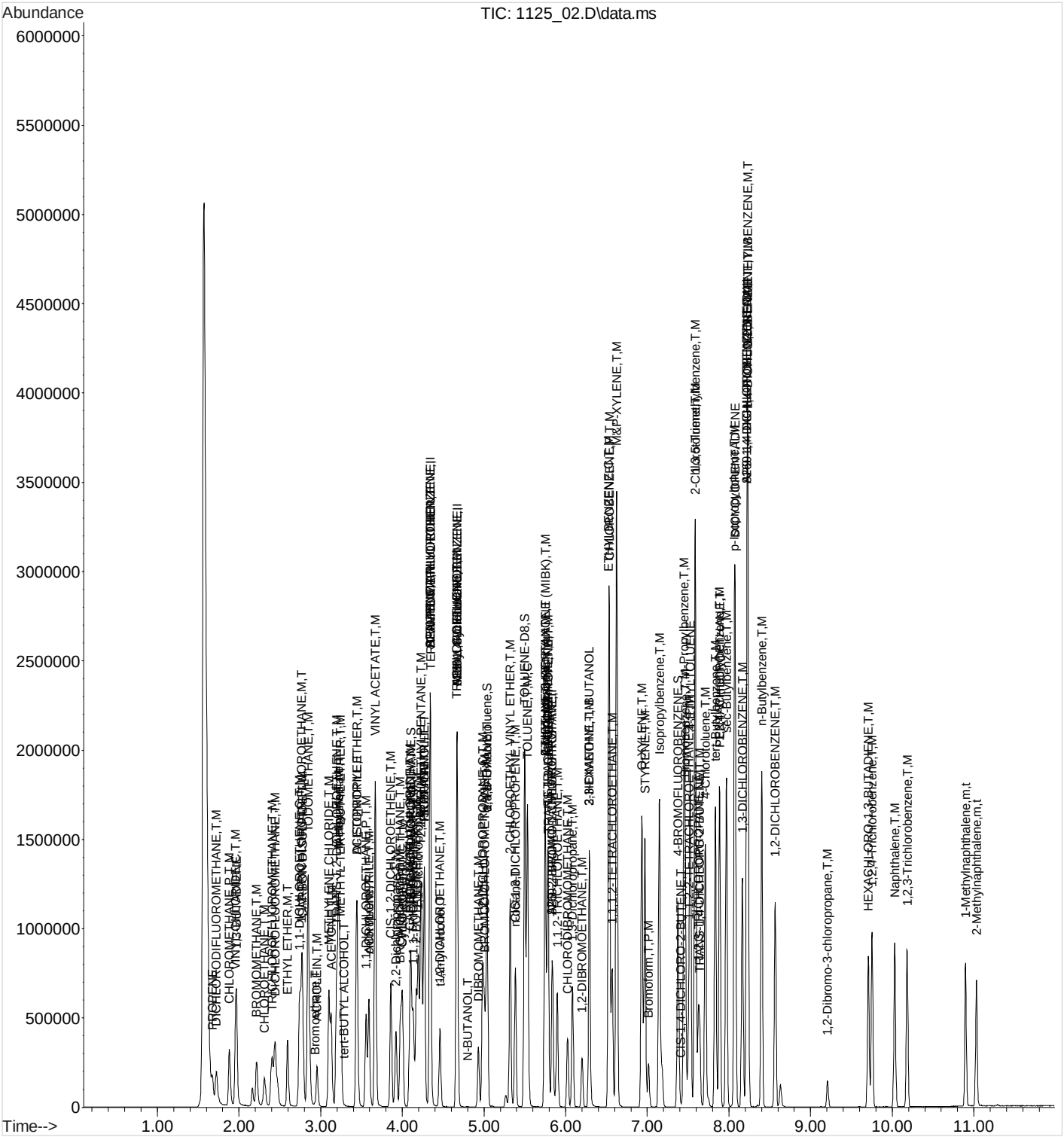
	Compound	R.T.	QIon	Response	Conc Units		Dev(Min)
97)	ETHANOL	0.000		0	N.D.		
98)	Bromoethane	2.933	108	9243	1.6643822 ppb		95
99)	2-PROPANOL	0.000		0	N.D.		
100)	Methyl Acetate	3.219	43	409301	65.5133147 ppb	#	56
101)	ACETONITRILE	3.441	41	142637	115.2710866 ppb	#	39
102)	ALLYL CHLORIDE	2.965	76	824	N.D.		
103)	tert-BUTYL ALCOHOL	3.283	59	1138	0.8219234 ppb	#	58
104)	chloroprene	3.589	53	386821	50.2051513 ppb	#	25
105)	ETHYL TERT-BUTYL ETHER	0.000		0	N.D.		
106)	PROPIONITRILE	4.267	54	4239	3.4475139 ppb	#	1
107)	Ethyl Acetate	4.036	43	2064	N.D.		
108)	METHACRYLONITRILE	4.332	67	899	N.D.		
109)	Cyclohexane	4.000	84	14507	1.4783962 ppb	#	1
110)	tert-butyl formate	4.232	59	834	N.D.		
111)	ISOBUTANOL	4.267	41	257023	570.6799936 ppb	#	1
112)	t-Amyl Alcohol	4.463	59	1378	2.2695967 ppb	#	19
113)	TERT-AMYL METHYL ETHER	4.345	73	16444	0.6903453 ppb	#	82
115)	N-BUTANOL	4.801	56	872	3.6018409 ppb	#	52
116)	Methyl Cyclohexane	4.669	83	17695	0.3819726 ppb	#	45
117)	2-nitropropane	5.750	43	1048509	551.3983225 ppb	#	37
118)	METHYL METHACRYLATE	5.103	41	1130	N.D.		
119)	1,4-DIOXANE	5.036	88	5714	74.4736536 ppb	#	27
120)	n-octane	5.386	85	5363	0.8435925 ppb	#	23
121)	3,3-DIMETHYL-1-BUTANOL	6.290	57	148347	251.6149611 ppb	#	43
123)	ETHYL METHACRYLATE	5.750	69	7414	0.6769820 ppb	#	1
124)	CIS-1,4-DICHLORO-2-BUTENE	7.412	53	3991	1.3666332 ppb	#	23
125)	Cyclohexanone	7.643	55	1239	No Calib #		
126)	PENTACHLOROETHANE	7.888	117	31403	6.1603632 ppb	#	20
127)	Hexachloroethane	8.541	117	1750	N.D.		

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\MSDchem\1\data\112514\
Data File : 1125 02.D
Acq On : 25 Nov 2014 1:27 am
Operator : 644
Sample : ICV VMS 25 ppb 14K24264
Misc : water IS/SURR14K01013
ALS Vial : 2 Sample Multiplier: 1
InstName : VOCMS20

Quant Time: Nov 25 11:36:46 2014
Quant Method : C:\MSDchem\1\methods\V820K23N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS20
QLast Update : Mon Nov 24 14:32:41 2014
Response via : Initial Calibration



Environmental Science Corporation
12065 Lebanon Rd., Mt. Juliet, TN 37122

Injection Log

Instrument ID : VOCMS20
Computer Name : VOCCOMPAH

Released By : Amy Green
Date Released : 11/26/2014 12:01:23 PM

Run ID : 112514
Signature : _____

#	File ID	Sample ID	Method	WG	Product	Matrix	Account #	State	Dil.	Mult.	Injected	Misc.
1	1125_01	INSTBLK	V820K23N						1	1	11/25/14 0108	"water IS/SURR14K01013"
2	1125_01T	INSTBLK VMS								1	11/25/14 0108	
3	1125_02	ICV VMS 25 PPB 14K24264	V820K23N						1	1	11/25/14 0127	"water IS/SURR14K01013"
3	1125_02-1	ICV VMS 25 PPB 14K24264	V820K23N						1	1	11/25/14 0127	"water IS/SURR14K01013"
4	1125_03	LCS	V820K23N	WG756630	V624	GW			1	1	11/25/14 0157	"water IS/SURR14K01013/SPK14K24265"
4	1125_03-2	LCS	V820K23N	WG756630	V8260	GW	URSTAZ		1	1	11/25/14 0157	"water IS/SURR14K01013/SPK14K24265"
4	1125_03-3	LCS	V820K23N	WG756630	V8260/465	GW	PEERENGMN		1	1	11/25/14 0157	"water IS/SURR14K01013/SPK14K24265"
5	1125_04	LCSD	V820K23N	WG756630	V624	GW			1	1	11/25/14 0216	"water IS/SURR14K01013/SPK14K24265"
5	1125_04-2	LCSD	V820K23N	WG756630	V8260	GW	URSTAZ		1	1	11/25/14 0216	"water IS/SURR14K01013/SPK14K24265"
5	1125_04-3	LCSD	V820K23N	WG756630	V8260/465	GW	PEERENGMN		1	1	11/25/14 0216	"water IS/SURR14K01013/SPK14K24265"
6	1125_05	MS	V820K23N	WG756630	V624	GW			1	1	11/25/14 0256	"water IS/SURR14K01013/SPK14K24265"
6	1125_05-2	MS	V820K23N	WG756630	V8260	GW	URSTAZ		1	1	11/25/14 0256	"water IS/SURR14K01013/SPK14K24265"
6	1125_05-3	MS	V820K23N	WG756630	V8260/465	GW	PEERENGMN		1	1	11/25/14 0256	"water IS/SURR14K01013/SPK14K24265"
7	1125_06	MSD	V820K23N	WG756630	V624	GW			1	1	11/25/14 0314	"water IS/SURR14K01013/SPK14K24265"
7	1125_06-2	MSD	V820K23N	WG756630	V8260	GW	URSTAZ		1	1	11/25/14 0314	"water IS/SURR14K01013/SPK14K24265"
7	1125_06-3	MSD	V820K23N	WG756630	V8260/465	GW	PEERENGMN		1	1	11/25/14 0314	"water IS/SURR14K01013/SPK14K24265"
8	1125_07	INSTBLK	V820K23N						1	1	11/25/14 0332	"water IS/SURR14K01013"
9	1125_08	INSTBLK	V820K23N						1	1	11/25/14 0350	"water IS/SURR14K01013"
10	1125_09	INSTBLK	V820K23N						1	1	11/25/14 0442	"water IS/SURR14K01013"
11	1125_10	BLANK	V820K23N	WG756630	V624	GW			1	1	11/25/14 0501	"water IS/SURR14K01013"
11	1125_10-2	BLANK	V820K23N	WG756630	V8260	GW	URSTAZ		1	1	11/25/14 0501	"water IS/SURR14K01013"
11	1125_10-3	BLANK	V820K23N	WG756630	V8260/465	GW	PEERENGMN		1	1	11/25/14 0501	"water IS/SURR14K01013"

Environmental Science Corporation
12065 Lebanon Rd., Mt. Juliet, TN 37122

Injection Log

Instrument ID : VOCMS20
Computer Name : VOCCOMPAH
Released By : Amy Green
Date Released : 11/26/2014 12:01:23 PM
Run ID : 112514
Signature : _____

#	File ID	Sample ID	Method	WG	Product	Matrix	Account #	State	Dil.	Mult.	Injected	Misc.
12	1125_11	L734231-26 (TB)	V820K23N	WG756630	V8260	GW	URSTAZ	AZ	1	1	11/25/14 0533	"water IS/SURR14K01013"
13	1125_12	L735238-02 (TB)	V820K23N	WG756630	V8260/465	GW	ERMSAZ	MN	1	1	11/25/14 0551	"water IS/SURR14K01013"
14	1125_13	L735404-04 (TB)	V820K23N	WG756630	V8260/465	GW	ERMSAZ	MN	1	1	11/25/14 0609	"water IS/SURR14K01013"
15	1125_14	L734185-03	V820K23N	WG756630					1	1	11/25/14 0627	"water IS/SURR14K01013"
16	1125_15	DNR L734185-02	V820K23N	WG756630					50	50	11/25/14 0645	"water IS/SURR14K01013"
17	1125_16	L734210-06	V820K23N	WG756630					1	1	11/25/14 0703	"water IS/SURR14K01013"
18	1125_17	L734406-13	V820K23N	WG756630	V8260	GW	SHAWILSLMO	MO	1	1	11/25/14 0721	"water IS/SURR14K01013"
19	1125_18	L734406-14	V820K23N	WG756630	V8260	GW	SHAWILSLMO	MO	1	1	11/25/14 0739	"water IS/SURR14K01013"
20	1125_19	L734406-16	V820K23N	WG756630	V8260	GW	SHAWILSLMO	MO	1	1	11/25/14 0758	"water IS/SURR14K01013"
21	1125_20	L734406-17	V820K23N	WG756630	V8260	GW	SHAWILSLMO	MO	1	1	11/25/14 0816	"water IS/SURR14K01013"
22	1125_21	DNR L734406-19	V820K23N	WG756630					10	10	11/25/14 0835	"water IS/SURR14K01013"
23	1125_22	L734406-20	V820K23N	WG756630	V8260	GW	SHAWILSLMO	MO	1	1	11/25/14 0853	"water IS/SURR14K01013"
24	1125_23	L734622-01	V820K23N	WG756630	V8260/465	GW	PEERENGMN	MN	1	1	11/25/14 0912	"water IS/SURR14K01013"
25	1125_24	L734635-01	V820K23N	WG756630	V8260AZ	GW	WASMANTAZ	AZ	1	1	11/25/14 0930	"water IS/SURR14K01013"
26	1125_25	L734639-01	V820K23N	WG756630	V8260AZ	GW	WASMANTAZ	AZ	1	1	11/25/14 0948	"water IS/SURR14K01013"
27	1125_26	L734667-04	V820K23N	WG756630	V8260AP9	GW	AQUAOPKS	KS	1	1	11/25/14 1006	"water IS/SURR14K01013"
28	1125_27	L734711-01	V820K23N	WG756630	V8260	GW	HALALDRNY	TN	1	1	11/25/14 1024	"water IS/SURR14K01013"
29	1125_28	L734726-01	V820K23N	WG756630	V624	GW	ARCAHCO	CO	1	1	11/25/14 1042	"water IS/SURR14K01013"
30	1125_29	L735236-01	V820K23N	WG756630	V8260AZ	GW	WASMANTAZ	AZ	1	1	11/25/14 1100	"water IS/SURR14K01013"
31	1125_30	L735237-01	V820K23N	WG756630	V8260AZ	GW	WASMANTAZ	AZ	1	1	11/25/14 1118	"water IS/SURR14K01013"
32	1125_31	INSTBLK	V820K23N						1	1	11/25/14 1137	"water IS/SURR14K01013"
33	1125_32	ICV VMS 25 PPB 14K24264	V820K23N						1	1	11/25/14 1155	"water IS/SURR14K01013"

Environmental Science Corporation
12065 Lebanon Rd., Mt. Juliet, TN 37122

Injection Log

Instrument ID : VOCMS20
Computer Name : VOCCOMPAH
Released By : Amy Green
Date Released : 11/26/2014 12:01:24 PM
Run ID : 112514
Signature : _____

#	File ID	Sample ID	Method	WG	Product	Matrix	Account #	State	Dil.	Mult.	Injected	Misc.
33	1125_32-1	ICV VMS 25 PPB 14K24264	V820K23N						1	1	11/25/14 1155	"water IS/SURR14K01013"
34	1125_32T	ICV								1	11/25/14 1155	
35	1125_33	DNR LCS	V820K23N	WG756628					1	1	11/25/14 1230	"water IS/SURR14K01013/SPK14K24265"
36	1125_34	LCS	V820K23N	WG756628	V8260AZ	GW			1	1	11/25/14 1248	"water IS/SURR14K01013/SPK14K24265"
36	1125_34-2	LCS	V820K23N	WG756628	V8260/465	GW	MSAPRODMN		1	1	11/25/14 1248	"water IS/SURR14K01013/SPK14K24265"
37	1125_35	LCSD	V820K23N	WG756628	V8260AZ	GW			1	1	11/25/14 1328	"water IS/SURR14K01013/SPK14K24265"
37	1125_35-2	LCSD	V820K23N	WG756628	V8260/465	GW	MSAPRODMN		1	1	11/25/14 1328	"water IS/SURR14K01013/SPK14K24265"
38	1125_36	MS	V820K23N	WG756628	V8260AZ	GW			1	1	11/25/14 1430	"water IS/SURR14K01013/SPK14K24265"
38	1125_36-2	MS	V820K23N	WG756628	V8260/465	GW	MSAPRODMN		1	1	11/25/14 1430	"water IS/SURR14K01013/SPK14K24265"
39	1125_37	MSD	V820K23N	WG756628	V8260AZ	GW			1	1	11/25/14 1448	"water IS/SURR14K01013/SPK14K24265"
39	1125_37-2	MSD	V820K23N	WG756628	V8260/465	GW	MSAPRODMN		1	1	11/25/14 1448	"water IS/SURR14K01013/SPK14K24265"
40	1125_38	INSTBLK	V820K23N						1	1	11/25/14 1506	"water IS/SURR14K01013"
41	1125_39	BLANK	V820K23N	WG756628	V8260AZ	GW			1	1	11/25/14 1524	"water IS/SURR14K01013"
41	1125_39-2	BLANK	V820K23N	WG756628	V8260/465	GW	MSAPRODMN		1	1	11/25/14 1524	"water IS/SURR14K01013"
42	1125_40	L735143-11	V820K23N	WG756628	V8260MI	GW	MAROILSOH	MI	1	1	11/25/14 1556	"water IS/SURR14K01013"
43	1125_41	DNR L734185-02	V820K23N	WG756628					20	20	11/25/14 1614	"water IS/SURR14K01013"
44	1125_42	L734185-03	V820K23N	WG756628	V8260AZ	GW	SECORTAZ	AZ	50	50	11/25/14 1632	"water IS/SURR14K01013"
45	1125_43	L734210-06	V820K23N	WG756628	V8260/465	GW	MSAPRODMN	MN	1	1	11/25/14 1650	"water IS/SURR14K01013"
46	1125_44	L734185-02	V820K23N	WG756628	V8260AZ	GW	SECORTAZ	AZ	1	1	11/25/14 1709	"water IS/SURR14K01013"
47	1125_45	L735143-12	V820K23N	WG756628	V8260MI	GW	MAROILSOH	MI	1	1	11/25/14 1727	"water IS/SURR14K01013"
48	1125_46	L735186-13 (TB)	V820K23N	WG756628	V8260MI	GW	MAROILSOH	MI	1	1	11/25/14 1745	"water IS/SURR14K01013"
49	1125_47	L735186-01	V820K23N	WG756628	V8260MI	GW	MAROILSOH	MI	5	5	11/25/14 1803	"water IS/SURR14K01013"

Environmental Science Corporation
12065 Lebanon Rd., Mt. Juliet, TN 37122

Injection Log

Instrument ID : VOCMS20
Computer Name : VOCCOMPAH
Released By : Amy Green
Date Released : 11/26/2014 12:01:24 PM
Run ID : 112514
Signature : _____

#	File ID	Sample ID	Method	WG	Product	Matrix	Account #	State	Dil.	Mult.	Injected	Misc.
50	1125_48	L735186-02	V820K23N	WG756628	V8260MI	GW	MAROILSOH	MI	1	1	11/25/14 1822	"water IS/SURR14K01013"
51	1125_49	L735186-03	V820K23N	WG756628	V8260MI	GW	MAROILSOH	MI	1	1	11/25/14 1840	"water IS/SURR14K01013"
52	1125_50	L735186-04	V820K23N	WG756628	V8260MI	GW	MAROILSOH	MI	1	1	11/25/14 1858	"water IS/SURR14K01013"
53	1125_51	L735186-05	V820K23N	WG756628	V8260MI	GW	MAROILSOH	MI	1	1	11/25/14 1917	"water IS/SURR14K01013"
54	1125_52	L735186-06	V820K23N	WG756628	V8260MI	GW	MAROILSOH	MI	1	1	11/25/14 1935	"water IS/SURR14K01013"
55	1125_53	L735186-07	V820K23N	WG756628	V8260MI	GW	MAROILSOH	MI	1	1	11/25/14 1954	"water IS/SURR14K01013"
56	1125_54	L735186-08	V820K23N	WG756628	V8260MI	GW	MAROILSOH	MI	1	1	11/25/14 2012	"water IS/SURR14K01013"
57	1125_55	L735186-09	V820K23N	WG756628	V8260MI	GW	MAROILSOH	MI	1	1	11/25/14 2030	"water IS/SURR14K01013"
58	1125_56	L735186-10	V820K23N	WG756628	V8260MI	GW	MAROILSOH	MI	1	1	11/25/14 2048	"water IS/SURR14K01013"
59	1125_57	L735186-11	V820K23N	WG756628	V8260MI	GW	MAROILSOH	MI	1	1	11/25/14 2106	"water IS/SURR14K01013"
60	1125_58	L735186-12	V820K23N	WG756628	V8260MI	GW	MAROILSOH	MI	1	1	11/25/14 2124	"water IS/SURR14K01013"
61	1125_59	L735186-14	V820K23N	WG756628	V8260MI	GW	MAROILSOH	MI	1	1	11/25/14 2142	"water IS/SURR14K01013"
62	1125_60	INSTBLK	V820K23N						1	1	11/25/14 2201	"water IS/SURR14K01013"
63	1125_60T	INSTBLK VMS								1	11/25/14 2201	
64	1125_61	ICV VMS 25 PPB 14K25331	V820K23N						1	1	11/25/14 2219	"water IS/SURR14K01013"
65	1125_62	LCS	V820K23N	WG756584	V8260	GW			1	1	11/25/14 2248	"water IS/SURR14K01013/SPK14K25332"
66	1125_63	LCSD	V820K23N	WG756584	V8260	GW			1	1	11/25/14 2306	"water IS/SURR14K01013/SPK14K25332"
67	1125_64	MS	V820K23N	WG756584	V8260	GW			1	1	11/25/14 2324	"water IS/SURR14K01013/SPK14K25332"
68	1125_65	MSD	V820K23N	WG756584	V8260	GW			1	1	11/25/14 2342	"water IS/SURR14K01013/SPK14K25332"
69	1125_66	INSTBLK	V820K23N						1	1	11/26/14 0001	"water IS/SURR14K01013"
70	1125_67	BLANK	V820K23N	WG756584	V8260	GW			1	1	11/26/14 0019	"water IS/SURR14K01013"
71	1125_68	L734718-01	V820K23N	WG756584	V8260	GW	URSTAZ	AZ	1	1	11/26/14 0037	"water IS/SURR14K01013"

Environmental Science Corporation
12065 Lebanon Rd., Mt. Juliet, TN 37122

Injection Log

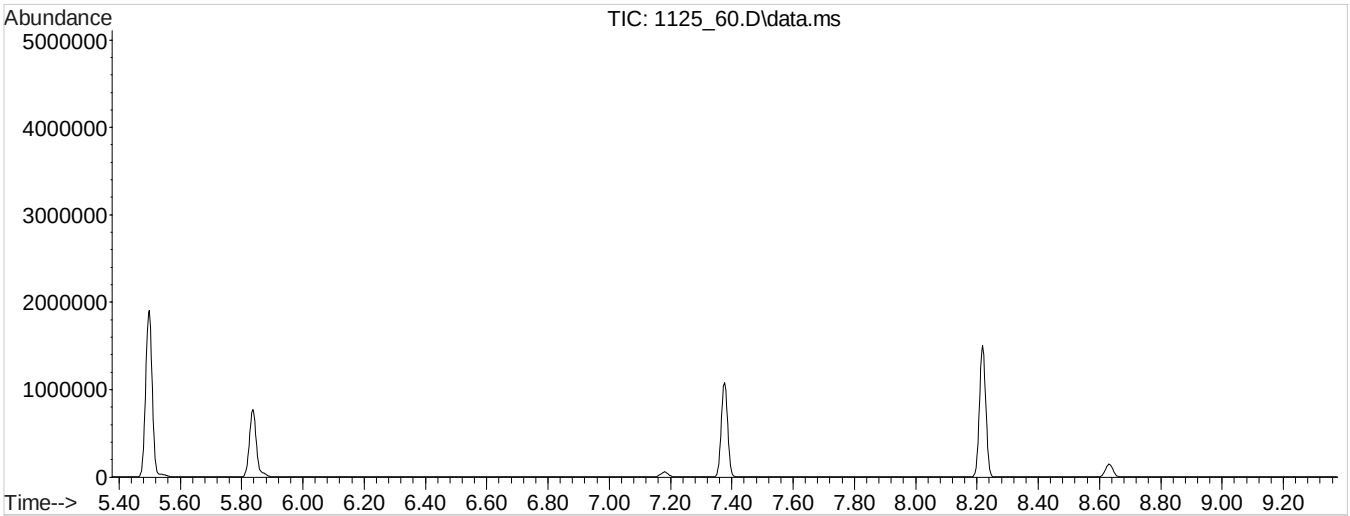
Instrument ID : VOCMS20
Computer Name : VOCCOMPAH
Released By : Amy Green
Date Released : 11/26/2014 12:01:24 PM
Run ID : 112514
Signature : _____

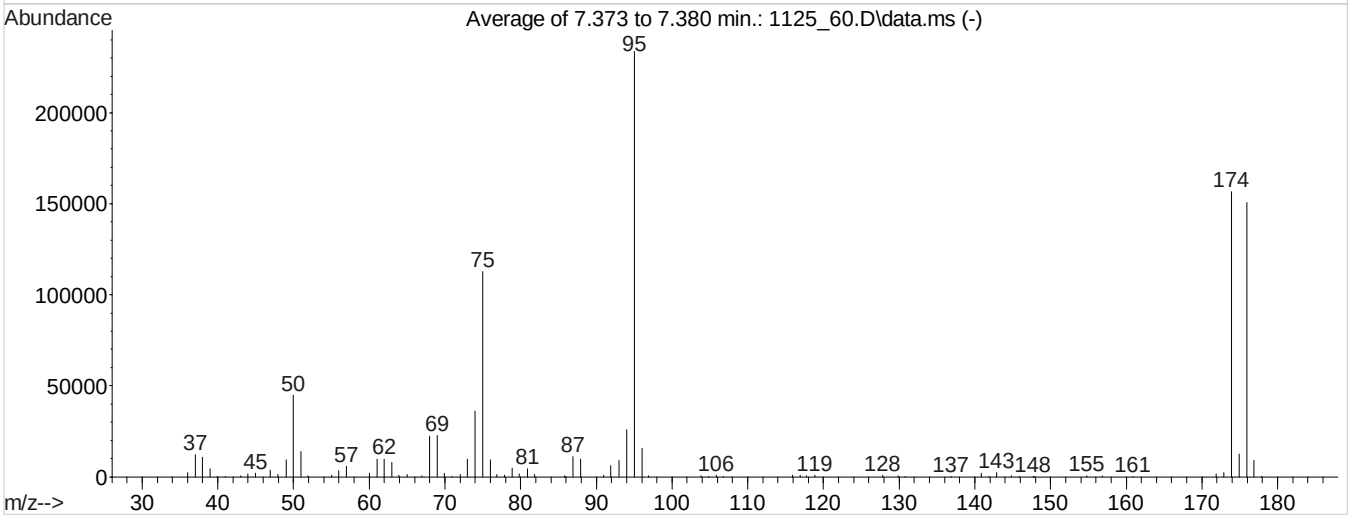
#	File ID	Sample ID	Method	WG	Product	Matrix	Account #	State	Dil.	Mult.	Injected	Misc.
72	1125_69	L734718-15	V820K23N	WG756584	V8260	GW	URSTAZ	AZ	1	1	11/26/14 0055	"water IS/SURR14K01013"
73	1125_70	L735181-01	V820K23N	WG756584	V8260	GW	URSTAZ	AZ	1	1	11/26/14 0114	"water IS/SURR14K01013"
74	1125_71	L734231-14	V820K23N	WG756584	V8260	GW	URSTAZ	AZ	1	1	11/26/14 0132	"water IS/SURR14K01013"
75	1125_72	L734231-17	V820K23N	WG756584	V8260	GW	URSTAZ	AZ	1	1	11/26/14 0151	"water IS/SURR14K01013"
76	1125_73	L734231-22	V820K23N	WG756584	V8260	GW	URSTAZ	AZ	1	1	11/26/14 0209	"water IS/SURR14K01013"
77	1125_74	L734231-25	V820K23N	WG756584	V8260	GW	URSTAZ	AZ	1	1	11/26/14 0227	"water IS/SURR14K01013"
78	1125_75	L734718-02	V820K23N	WG756584	V8260	GW	URSTAZ	AZ	1	1	11/26/14 0246	"water IS/SURR14K01013"
79	1125_76	L734718-03	V820K23N	WG756584	V8260	GW	URSTAZ	AZ	1	1	11/26/14 0303	"water IS/SURR14K01013"
80	1125_77	L734718-11	V820K23N	WG756584	V8260	GW	URSTAZ	AZ	1	1	11/26/14 0322	"water IS/SURR14K01013"
81	1125_78	L734718-12	V820K23N	WG756584	V8260	GW	URSTAZ	AZ	1	1	11/26/14 0340	"water IS/SURR14K01013"
82	1125_79	L734718-13	V820K23N	WG756584	V8260	GW	URSTAZ	AZ	1	1	11/26/14 0358	"water IS/SURR14K01013"
83	1125_80	L734718-14	V820K23N	WG756584	V8260	GW	URSTAZ	AZ	1	1	11/26/14 0416	"water IS/SURR14K01013"
84	1125_81	L735181-02	V820K23N	WG756584	V8260	GW	URSTAZ	AZ	1	1	11/26/14 0434	"water IS/SURR14K01013"
85	1125_82	L735181-05	V820K23N	WG756584	V8260	GW	URSTAZ	AZ	1	1	11/26/14 0453	"water IS/SURR14K01013"
86	1125_83	L735181-07	V820K23N	WG756584	V8260	GW	URSTAZ	AZ	1	1	11/26/14 0511	"water IS/SURR14K01013"
87	1125_84	L735181-10	V820K23N	WG756584	V8260	GW	URSTAZ	AZ	1	1	11/26/14 0529	"water IS/SURR14K01013"
88	1125_85	L735318-01	V820K23N	WG756584	V8260	GW	URSTAZ	AZ	1	1	11/26/14 0548	"water IS/SURR14K01013"
89	1125_86	L735318-03	V820K23N	WG756584	V8260	GW	URSTAZ	AZ	1	1	11/26/14 0606	"water IS/SURR14K01013"
90	1125_87	L735318-04	V820K23N	WG756584	V8260	GW	URSTAZ	AZ	1	1	11/26/14 0624	"water IS/SURR14K01013"

Data Path : C:\MSDchem\1\data\112514\
Data File : 1125 60.D
Acq On : 25 Nov 2014 10:01 pm
Operator : 644
Sample : INSTBLK VMS
Misc : water IS/SURR14K01013
ALS Vial : 60 Sample Multiplier: 1

Integration File: RTEINT.P

Method : C:\MSDchem\1\methods\V820K23N.M
Title : Env. Science Corp. 8260B/6210D/624 - VOCMS20
Last Update : Mon Nov 24 14:32:41 2014





AutoFind: Scans 2265, 2266, 2267; Background Corrected with Scan 2252

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	19.2	44789	PASS
75	95	30	60	48.3	112768	PASS
95	95	100	100	100.0	233685	PASS
96	95	5	9	6.7	15755	PASS
173	174	0.00	2	1.5	2346	PASS
174	95	50	150	67.1	156715	PASS
175	174	5	9	7.9	12331	PASS
176	174	95	101	96.1	150656	PASS
177	176	5	9	6.0	9111	PASS

Quantitation Report (QT Reviewed)

Data Path : C:\MSDchem\1\data\112514\
Data File : 1125 61.D
Acq On : 25 Nov 2014 10:19 pm
Operator : 644
Sample : ICV VMS 25 ppb 14K25331
Misc : water IS/SURR14K01013
ALS Vial : 61 Sample Multiplier: 1
InstName : VOCMS20

Quant Time: Nov 26 11:02:51 2014
Quant Method : C:\MSDchem\1\methods\V820K23N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS20
QLast Update : Mon Nov 24 14:32:41 2014
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 8260-PENTAFLUOROBENZENE	4.341	168	464808	40.0000000 ppb	0.00
41) 8260-1,4-DIFLUOROBENZENE	4.669	114	863843	40.0000000 ppb	0.00
53) 8260-2-BROMO-1-CHLOROP...	5.836	79	143152	40.0000000 ppb	0.00
84) 8260-1,4-DICHLOROBENZE...	8.219	152	370528	40.0000000 ppb	0.00
96) AP9-PENTAFLUOROBENZENE	4.341	168	464808	40.0000000 ppb	0.00
114) AP9-1,4-DIFLUOROBENZENE	4.669	114	863843	40.0000000 ppb	0.00
122) AP9-2-BROMO-1-CHLOROPR...	5.836	79	143152	40.0000000 ppb	# 0.00
128) AP9-1,4-DICHLOROBENZEN...	8.219	152	370528	40.0000000 ppb	0.00
System Monitoring Compounds					
33) DIBROMOFLUOROMETHANE	4.107	111	246474	38.6797293 ppb	0.00
Spiked Amount 40.000	Range 78 - 121		Recovery = 96.70%		
46) a,a,a-Trifluorotoluene	5.036	146	453757	41.4787980 ppb	0.00
Spiked Amount 40.000	Range 85 - 114		Recovery = 103.70%		
50) TOLUENE-D8	5.499	98	1104259	40.3375225 ppb	0.00
Spiked Amount 40.000	Range 89 - 111		Recovery = 100.84%		
68) 4-BROMOFLUOROBENZENE	7.377	95	375248	39.9747188 ppb	0.00
Spiked Amount 40.000	Range 71 - 126		Recovery = 99.94%		
Target Compounds					Qvalue
2) TPH (GC/MS) LOW FRACTION	4.096	TIC	2520513	No Calib	
3) PROPENE	1.669	41	47116	21.9342838 ppb	96
4) DICHLORODIFLUOROMETHANE	1.721	85	186628	24.3591687 ppb	97
5) CHLOROMETHANE	1.878	50	304523	23.7485026 ppb	99
6) VINYL CHLORIDE	1.952	62	260207	24.2009166 ppb	99
7) 1,3-BUTADIENE	1.965	39	182646	21.6367709 ppb	95
8) BROMOMETHANE	2.213	94	162920	24.1353362 ppb	96
9) CHLOROETHANE	2.309	66	49344	25.7741394 ppb	94
10) TRICHLOROFLUOROMETHANE	2.403	101	243708	24.4984385 ppb	100
11) DICHLOROFLUOROMETHANE	2.438	67	342606	23.7119926 ppb	99
12) ETHYL ETHER	2.592	59	195803	24.0348931 ppb	99
13) ACROLEIN	2.956	56	154599	118.3893260 ppb	99
14) 1,1-DICHLOROETHENE	2.737	61	289121	23.6539934 ppb	94
15) 1,1,2-TRICHLOROTRIFLUO...	2.759	101	169908	25.2832162 ppb	94
16) ACETONE	3.126	43	278086	116.9562559 ppb	100
17) IODOMETHANE	2.843	142	1463558	122.6513771 ppb	99
18) CARBON DISULFIDE	2.772	76	702626	24.0020984 ppb	100
19) METHYLENE CHLORIDE	3.100	84	257101	25.5307371 ppb	97
20) ACRYLONITRILE	3.589	53	390180	122.2787309 ppb	100
21) n-Hexane	3.216	56	218966	24.2498370 ppb	94
22) TRANS-1,2-DICHLOROETHENE	3.193	96	215029	24.0123923 ppb	98
23) METHYL TERT-BUTYL ETHER	3.242	73	612653	24.9744577 ppb #	100
24) 1,1-DICHLOROETHANE	3.554	63	423246	24.1971409 ppb	99
25) VINYL ACETATE	3.666	43	2111316	152.4387672 ppb	99
26) DI-ISOPROPYL ETHER	3.441	45	886501	24.8329257 ppb	99
27) 2,2-Dichloropropane	3.920	77	211261	24.8705517 ppb	100
28) CIS-1,2-DICHLOROETHENE	3.859	96	238250	24.2375020 ppb	99
29) 2-BUTANONE (MEK)	4.168	72	122345	128.6504999 ppb	96
30) BROMOCHLOROMETHANE	3.975	130	130334	24.3406546 ppb	95
31) TETRAHYDROFURAN	4.103	42	65895	23.0875208 ppb	99
32) CHLOROFORM	4.001	83	381645	24.0910339 ppb	100
34) 1,1,1-TRICHLOROETHANE	4.132	97	266523	24.0454104 ppb	100
35) CARBON TETRACHLORIDE	4.091	119	211318	23.7863249 ppb	94

Quantitation Report (QT Reviewed)

Data Path : C:\MSDchem\1\data\112514\
Data File : 1125 61.D
Acq On : 25 Nov 2014 10:19 pm
Operator : 644
Sample : ICV VMS 25 ppb 14K25331
Misc : water IS/SURR14K01013
ALS Vial : 61 Sample Multiplier: 1
InstName : VOCMS20

Quant Time: Nov 26 11:02:51 2014
Quant Method : C:\MSDchem\1\methods\V820K23N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS20
QLast Update : Mon Nov 24 14:32:41 2014
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units		Dev(Min)
36) 1,1-Dichloropropene	4.193	75	292921	24.5415571 ppb		99
37) 2,2,4-TRIMETHYLPENTANE	4.229	57	903698	24.7146256 ppb		99
38) HEPTANE	4.267	43	404655	24.7007545 ppb	#	99
39) BENZENE	4.341	78	968562	24.0580903 ppb		100
40) 1,2-DICHLOROETHANE	4.460	62	272600	24.0469673 ppb		100
42) TRICHLOROETHENE	4.666	130	197086	24.6008109 ppb		99
43) 1,2-DICHLOROPROPANE	4.984	62	179878	24.6990230 ppb		99
44) DIBROMOMETHANE	4.930	93	117493	24.8744839 ppb		97
45) BROMODICHLOROMETHANE	5.007	83	289984	23.9938193 ppb		100
47) 2-CHLOROETHYL VINYL ETHER	5.319	63	484152	142.7014837 ppb		100
48) CIS-1,3-DICHLOROPROPENE	5.383	75	386861	25.8541107 ppb		100
49) 4-METHYL-2-PENTANONE (...	5.750	58	394479	130.6576704 ppb		100
51) TOLUENE	5.531	91	967225	22.7216353 ppb		100
52) TRANS-1,3-DICHLOROPROPENE	5.788	110	77087	25.6315645 ppb		99
54) 1,1,2-TRICHLOROETHANE	5.898	97	173186	24.3653272 ppb		96
55) TETRACHLOROETHENE	5.779	164	137055	25.5824714 ppb		98
56) 1,3-Dichloropropane	6.084	76	343817	24.2816764 ppb		99
57) 2-HEXANONE	6.290	58	380967	137.9546977 ppb		98
58) CHLORODIBROMOMETHANE	6.023	129	174219	25.2806272 ppb		97
59) 1,2-DIBROMOETHANE	6.203	107	170910	25.8756465 ppb		99
60) CHLOROBENZENE	6.534	112	592857	25.3296547 ppb		99
61) 1,1,1,2-TETRACHLOROETHANE	6.570	133	179240	25.2717606 ppb		100
62) ETHYLBENZENE	6.528	106	318265	26.3924782 ppb		99
63) M&P-XYLENE	6.624	106	813163	52.9521280 ppb		99
64) O-XYLENE	6.933	106	392216	26.9815457 ppb		97
65) STYRENE	6.968	104	633881	26.6065535 ppb		99
66) Bromoform	7.016	173	100137	27.1868388 ppb		99
67) Isopropylbenzene	7.145	105	996146	27.2174008 ppb		99
69) Bromobenzene	7.463	77	487182	24.5059449 ppb		97
70) 1,1,2,2-TETRACHLOROETHANE	7.508	83	238485	26.1054387 ppb		99
71) 1,2,3-TRICHLOROPROPANE	7.627	110	66429	26.0347493 ppb		96
72) TRANS-1,4-DICHLORO-2-B...	7.640	53	67391	25.1685428 ppb		97
73) n-Propylbenzene	7.447	91	1253196	25.5914984 ppb		99
74) 4-ETHYLTOLUENE	7.524	105	1029250	26.4023244 ppb		100
75) 2-Chlorotoluene	7.589	126	231689	25.3916019 ppb		99
76) 4-Chlorotoluene	7.711	91	788305	25.9054347 ppb		99
77) 1,3,5-Trimethylbenzene	7.586	105	874318	26.6931735 ppb		98
78) tert-Butylbenzene	7.833	119	692605	27.0828206 ppb		99
79) 1,2,4-Trimethylbenzene	7.885	105	893400	27.0994331 ppb		98
80) sec-Butylbenzene	7.968	105	1126998	27.2404070 ppb		99
81) 1,3-DICHLOROBENZENE	8.164	146	450476	26.0517292 ppb		100
82) p-Isopropyltoluene	8.068	119	917279	28.0577098 ppb		99
83) DICYCLOPENTADIENE	8.074	66	1133850	27.0237791 ppb		99
85) 1,4-DICHLOROBENZENE	8.232	146	459671	24.1296213 ppb		98
86) 1,2,3-TRIMETHYLBENZENE	8.229	105	941476	25.0471413 ppb		99
87) 1,2-DICHLOROBENZENE	8.566	146	422618	24.9909230 ppb		98
88) n-Butylbenzene	8.399	91	919791	25.7401509 ppb		99
89) 1,2-Dibromo-3-chloropr...	9.209	157	35944	26.0574559 ppb		98
90) 1,2,4-Trichlorobenzene	9.753	180	254531	25.8298898 ppb		98
91) HEXACHLORO-1,3-BUTADIENE	9.708	225	133577	26.0641206 ppb		98
92) Naphthalene	10.029	128	629188	25.1738687 ppb		99
93) 1,2,3-Trichlorobenzene	10.180	180	235157	26.1633069 ppb		99
94) 1-Methylnaphthalene	10.897	142	329693	25.6264020 ppb		99
95) 2-Methylnaphthalene	11.029	142	292128	25.6393004 ppb		98

Quantitation Report (QT Reviewed)

Data Path : C:\MSDchem\1\data\112514\
Data File : 1125 61.D
Acq On : 25 Nov 2014 10:19 pm
Operator : 644
Sample : ICV VMS 25 ppb 14K25331
Misc : water IS/SURR14K01013
ALS Vial : 61 Sample Multiplier: 1
InstName : VOCMS20

Quant Time: Nov 26 11:02:51 2014
Quant Method : C:\MSDchem\1\methods\V820K23N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS20
QLast Update : Mon Nov 24 14:32:41 2014
Response via : Initial Calibration

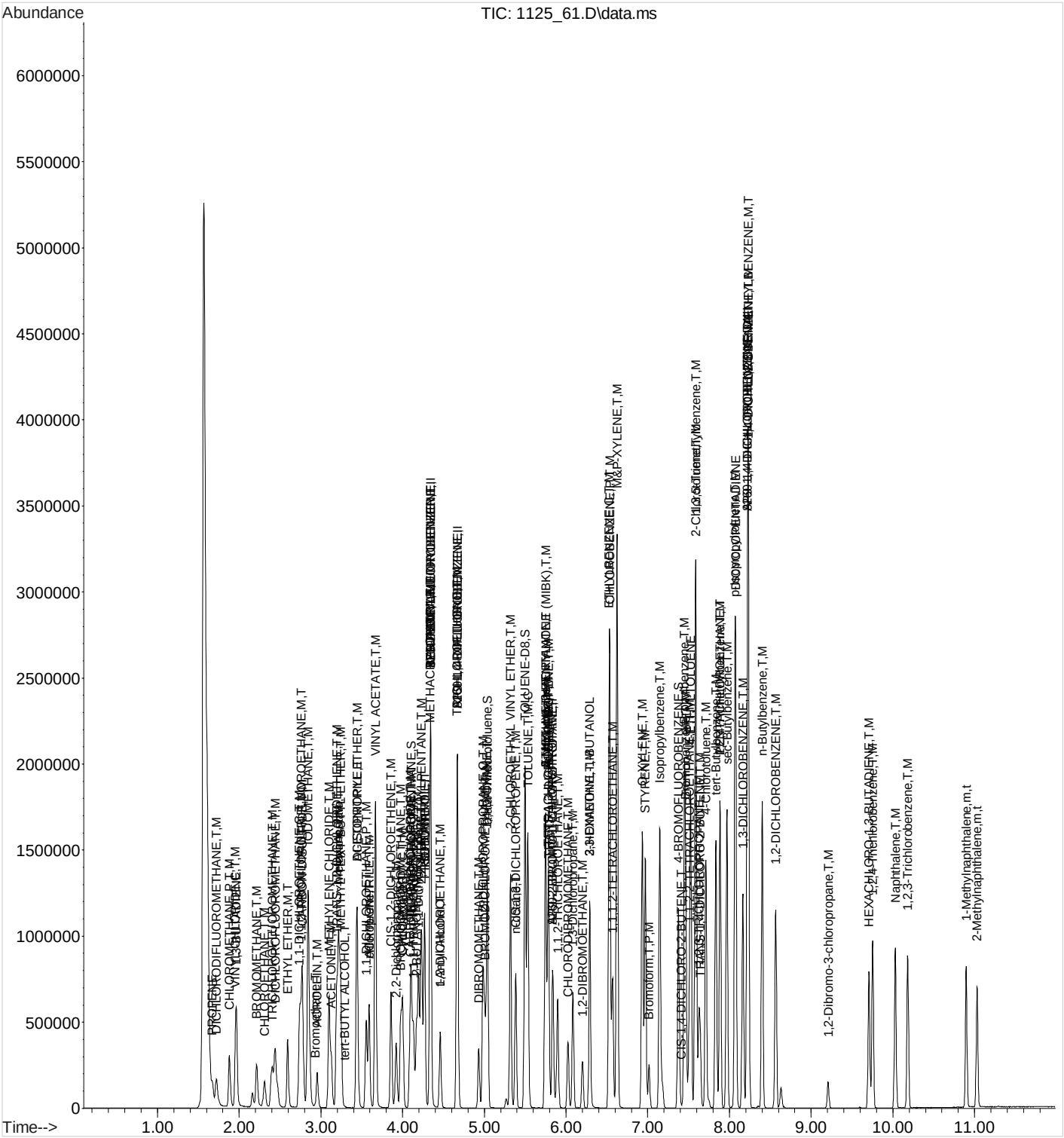
	Compound	R.T.	QIon	Response	Conc Units		Dev(Min)
97)	ETHANOL	0.000		0	N.D.		
98)	Bromoethane	2.930	108	8904	1.6196650 ppb		86
99)	2-PROPANOL	0.000		0	N.D.		
100)	Methyl Acetate	3.216	43	385066	62.2618280 ppb	#	56
101)	ACETONITRILE	3.441	41	138437	113.0160949 ppb	#	38
102)	ALLYL CHLORIDE	2.965	76	570	N.D.		
103)	tert-BUTYL ALCOHOL	3.290	59	1144	0.8346705 ppb	#	58
104)	chloroprene	3.589	53	390180	51.1567761 ppb	#	25
105)	ETHYL TERT-BUTYL ETHER	0.000		0	N.D.		
106)	PROPIONITRILE	4.271	54	3783	3.1079847 ppb	#	1
107)	Ethyl Acetate	4.029	43	560	N.D.		
108)	METHACRYLONITRILE	4.335	67	1606	0.4497365 ppb	#	1
109)	Cyclohexane	4.001	84	14961	1.5401881 ppb	#	5
110)	tert-butyl formate	4.226	59	556	N.D.		
111)	ISOBUTANOL	4.267	41	225886	506.6521624 ppb	#	1
112)	t-Amyl Alcohol	4.460	59	1382	2.2993624 ppb	#	19
113)	TERT-AMYL METHYL ETHER	4.341	73	16428	0.6966964 ppb	#	77
115)	N-BUTANOL	0.000		0	N.D.		
116)	Methyl Cyclohexane	4.666	83	15265	N.D.		
117)	2-nitropropane	5.750	43	1037217	541.3708272 ppb	#	37
118)	METHYL METHACRYLATE	5.097	41	528	N.D.		
119)	1,4-DIOXANE	5.033	88	5498	71.1212048 ppb	#	41
120)	n-octane	5.386	85	4663	0.7279848 ppb	#	27
121)	3,3-DIMETHYL-1-BUTANOL	6.290	57	123608	208.0828164 ppb	#	45
123)	ETHYL METHACRYLATE	5.750	69	6912	0.6440574 ppb	#	1
124)	CIS-1,4-DICHLORO-2-BUTENE	7.412	53	3002	1.0490042 ppb	#	28
125)	Cyclohexanone	7.647	55	1335	No Calib #		
126)	PENTACHLOROETHANE	7.885	117	32048	6.4155283 ppb	#	18
127)	Hexachloroethane	8.541	117	1304	N.D.		

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\MSDchem\1\data\112514\
Data File : 1125 61.D
Acq On : 25 Nov 2014 10:19 pm
Operator : 644
Sample : ICV VMS 25 ppb 14K25331
Misc : water IS/SURR14K01013
ALS Vial : 61 Sample Multiplier: 1
InstName : VOCMS20

Quant Time: Nov 26 11:02:51 2014
Quant Method : C:\MSDchem\1\methods\V820K23N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS20
QLast Update : Mon Nov 24 14:32:41 2014
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\MSDchem\1\data\112514\
Data File : 1125 62.D
Acq On : 25 Nov 2014 10:48 pm
Operator : 644
Sample : LCS 1x WG756584
Misc : water IS/SURR14K01013/SPK14K25332
ALS Vial : 62 Sample Multiplier: 1
InstName : VOCMS20

Quant Time: Nov 26 11:02:58 2014
Quant Method : C:\MSDchem\1\methods\V820K23N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS20
QLast Update : Mon Nov 24 14:32:41 2014
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 8260-PENTAFLUOROBENZENE	4.338	168	463262	40.0000000 ppb	0.00
41) 8260-1,4-DIFLUOROBENZENE	4.669	114	855577	40.0000000 ppb	0.00
53) 8260-2-BROMO-1-CHLOROP...	5.837	79	142721	40.0000000 ppb	0.00
84) 8260-1,4-DICHLOROBENZE...	8.219	152	368891	40.0000000 ppb	0.00
96) AP9-PENTAFLUOROBENZENE	4.338	168	463262	40.0000000 ppb	0.00
114) AP9-1,4-DIFLUOROBENZENE	4.669	114	855577	40.0000000 ppb	0.00
122) AP9-2-BROMO-1-CHLOROPR...	5.837	79	142721	40.0000000 ppb	# 0.00
128) AP9-1,4-DICHLOROBENZEN...	8.219	152	368891	40.0000000 ppb	0.00
System Monitoring Compounds					
33) DIBROMOFLUOROMETHANE	4.107	111	247285	38.9365082 ppb	0.00
Spiked Amount 40.000	Range 78 - 121		Recovery = 97.34%		
46) a,a,a-Trifluorotoluene	5.036	146	452058	41.7227284 ppb	0.00
Spiked Amount 40.000	Range 85 - 114		Recovery = 104.31%		
50) TOLUENE-D8	5.496	98	1088560	40.1482262 ppb	0.00
Spiked Amount 40.000	Range 89 - 111		Recovery = 100.37%		
68) 4-BROMOFLUOROBENZENE	7.373	95	371728	39.7193238 ppb	0.00
Spiked Amount 40.000	Range 71 - 126		Recovery = 99.30%		
Target Compounds					Qvalue
2) TPH (GC/MS) LOW FRACTION	4.096	TIC	3165299	No Calib	
3) PROPENE	1.673	41	52240	24.4008598 ppb	99
4) DICHLORODIFLUOROMETHANE	1.724	85	179665	23.5285985 ppb	99
5) CHLOROMETHANE	1.882	50	301954	23.6267418 ppb	99
6) VINYL CHLORIDE	1.956	62	262887	24.5317690 ppb	100
7) 1,3-BUTADIENE	1.965	39	190877	22.6872992 ppb	92
8) BROMOMETHANE	2.213	94	167692	24.9251748 ppb	96
9) CHLOROETHANE	2.309	66	49536	25.9607761 ppb	99
10) TRICHLOROFLUOROMETHANE	2.403	101	247940	25.0070310 ppb	98
11) DICHLOROFLUOROMETHANE	2.441	67	353405	24.5410247 ppb	99
12) ETHYL ETHER	2.592	59	206502	25.4327916 ppb	98
13) ACROLEIN	2.956	56	190419	146.3063125 ppb	96
14) 1,1-DICHLOROETHENE	2.740	61	296851	24.3674603 ppb	93
15) 1,1,2-TRICHLOROTRIFLUO...	2.760	101	177802	26.5461809 ppb	95
16) ACETONE	3.129	43	292156	123.2838130 ppb	99
17) IODOMETHANE	2.843	142	1512343	127.1626904 ppb	100
18) CARBON DISULFIDE	2.772	76	736132	25.2306018 ppb	99
19) METHYLENE CHLORIDE	3.100	84	257322	25.6379574 ppb	99
20) ACRYLONITRILE	3.589	53	408263	128.3727537 ppb	99
21) n-Hexane	3.216	56	221019	24.5588861 ppb	96
22) TRANS-1,2-DICHLOROETHENE	3.194	96	221471	24.8143086 ppb	98
23) METHYL TERT-BUTYL ETHER	3.239	73	632050	25.8511492 ppb #	100
24) 1,1-DICHLOROETHANE	3.554	63	433630	24.8735302 ppb	99
25) VINYL ACETATE	3.666	43	2413735	174.8552568 ppb	99
26) DI-ISOPROPYL ETHER	3.441	45	913528	25.6754130 ppb	100
27) 2,2-Dichloropropane	3.920	77	218272	25.7816692 ppb	97
28) CIS-1,2-DICHLOROETHENE	3.859	96	249704	25.4875074 ppb	99
29) 2-BUTANONE (MEK)	4.168	72	130607	137.7966385 ppb	92
30) BROMOCHLOROMETHANE	3.975	130	132811	24.8860227 ppb	94
31) TETRAHYDROFURAN	4.100	42	69787	24.5327528 ppb	99
32) CHLOROFORM	3.997	83	388763	24.6222481 ppb	100
34) 1,1,1-TRICHLOROETHANE	4.132	97	273834	24.7874463 ppb	99
35) CARBON TETRACHLORIDE	4.091	119	223211	25.2088692 ppb	93

Quantitation Report (QT Reviewed)

Data Path : C:\MSDchem\1\data\112514\
Data File : 1125 62.D
Acq On : 25 Nov 2014 10:48 pm
Operator : 644
Sample : LCS 1x WG756584
Misc : water IS/SURR14K01013/SPK14K25332
ALS Vial : 62 Sample Multiplier: 1
InstName : VOCMS20

Quant Time: Nov 26 11:02:58 2014
Quant Method : C:\MSDchem\1\methods\V820K23N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS20
QLast Update : Mon Nov 24 14:32:41 2014
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units		Dev(Min)
36) 1,1-Dichloropropene	4.194	75	301583	25.3516004 ppb		98
37) 2,2,4-TRIMETHYLPENTANE	4.229	57	938041	25.7394612 ppb		99
38) HEPTANE	4.267	43	417976	25.5990336 ppb	#	98
39) BENZENE	4.341	78	983126	24.5013392 ppb		100
40) 1,2-DICHLOROETHANE	4.460	62	279378	24.7271226 ppb		100
42) TRICHLOROETHENE	4.666	130	197576	24.9002411 ppb		98
43) 1,2-DICHLOROPROPANE	4.981	62	181427	25.1523959 ppb		100
44) DIBROMOMETHANE	4.930	93	122686	26.2248378 ppb		97
45) BROMODICHLOROMETHANE	5.004	83	298964	24.9758318 ppb		98
47) 2-CHLOROETHYL VINYL ETHER	5.319	63	502502	149.5409965 ppb		99
48) CIS-1,3-DICHLOROPROPENE	5.383	75	384608	25.9518716 ppb		99
49) 4-METHYL-2-PENTANONE (...	5.747	58	416060	139.1370220 ppb		99
51) TOLUENE	5.531	91	972131	23.0575193 ppb		99
52) TRANS-1,3-DICHLOROPROPENE	5.785	110	78995	26.5197418 ppb		97
54) 1,1,2-TRICHLOROETHANE	5.898	97	183101	25.8380493 ppb		98
55) TETRACHLOROETHENE	5.779	164	137537	25.7499684 ppb		98
56) 1,3-Dichloropropane	6.084	76	345322	24.4616140 ppb		99
57) 2-HEXANONE	6.290	58	404530	146.9296386 ppb		97
58) CHLORODIBROMOMETHANE	6.023	129	181363	26.3967561 ppb		99
59) 1,2-DIBROMOETHANE	6.200	107	173179	26.2983501 ppb		100
60) CHLOROBENZENE	6.534	112	596667	25.5694200 ppb		100
61) 1,1,1,2-TETRACHLOROETHANE	6.570	133	184922	26.1516253 ppb		99
62) ETHYLBENZENE	6.528	106	324125	26.9595948 ppb		100
63) M&P-XYLENE	6.624	106	822287	53.7079743 ppb		99
64) O-XYLENE	6.933	106	398024	27.4637805 ppb		96
65) STYRENE	6.968	104	652954	27.4898907 ppb		99
66) Bromoform	7.017	173	101736	27.7043735 ppb		99
67) Isopropylbenzene	7.148	105	1009003	27.6519429 ppb		99
69) Bromobenzene	7.463	77	497694	25.1103152 ppb		99
70) 1,1,2,2-TETRACHLOROETHANE	7.505	83	249011	27.3399679 ppb		99
71) 1,2,3-TRICHLOROPROPANE	7.624	110	66066	25.9706750 ppb		98
72) TRANS-1,4-DICHLORO-2-B...	7.640	53	69363	25.9832564 ppb		97
73) n-Propylbenzene	7.451	91	1272608	26.0663909 ppb		99
74) 4-ETHYLTOLUENE	7.525	105	1051368	27.0511406 ppb		100
75) 2-Chlorotoluene	7.589	126	234088	25.7319902 ppb		99
76) 4-Chlorotoluene	7.711	91	793192	26.1447485 ppb		99
77) 1,3,5-Trimethylbenzene	7.586	105	882205	27.0153031 ppb		99
78) tert-Butylbenzene	7.833	119	709579	27.8303434 ppb		99
79) 1,2,4-Trimethylbenzene	7.885	105	908323	27.6352952 ppb		99
80) sec-Butylbenzene	7.968	105	1139185	27.6181284 ppb		99
81) 1,3-DICHLOROBENZENE	8.164	146	449465	26.0717580 ppb		99
82) p-Isopropyltoluene	8.068	119	934732	28.6779048 ppb		99
83) DICYCLOPENTADIENE	8.074	66	1134886	27.1301539 ppb		99
85) 1,4-DICHLOROBENZENE	8.232	146	468509	24.7026936 ppb		96
86) 1,2,3-TRIMETHYLBENZENE	8.229	105	947646	25.3231670 ppb		100
87) 1,2-DICHLOROBENZENE	8.566	146	420228	24.9598669 ppb		99
88) n-Butylbenzene	8.399	91	930722	26.1616352 ppb		100
89) 1,2-Dibromo-3-chloropr...	9.206	157	35924	26.1585259 ppb		94
90) 1,2,4-Trichlorobenzene	9.753	180	262781	26.7854411 ppb		98
91) HEXACHLORO-1,3-BUTADIENE	9.708	225	137075	26.8653571 ppb		98
92) Naphthalene	10.029	128	671987	27.0055717 ppb		100
93) 1,2,3-Trichlorobenzene	10.180	180	245362	27.4198453 ppb		99
94) 1-Methylnaphthalene	10.897	142	375012	29.2783128 ppb		98
95) 2-Methylnaphthalene	11.029	142	328843	28.9897559 ppb		98

Quantitation Report (QT Reviewed)

Data Path : C:\MSDchem\1\data\112514\
Data File : 1125 62.D
Acq On : 25 Nov 2014 10:48 pm
Operator : 644
Sample : LCS 1x WG756584
Misc : water IS/SURR14K01013/SPK14K25332
ALS Vial : 62 Sample Multiplier: 1
InstName : VOCMS20

Quant Time: Nov 26 11:02:58 2014
Quant Method : C:\MSDchem\1\methods\V820K23N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS20
QLast Update : Mon Nov 24 14:32:41 2014
Response via : Initial Calibration

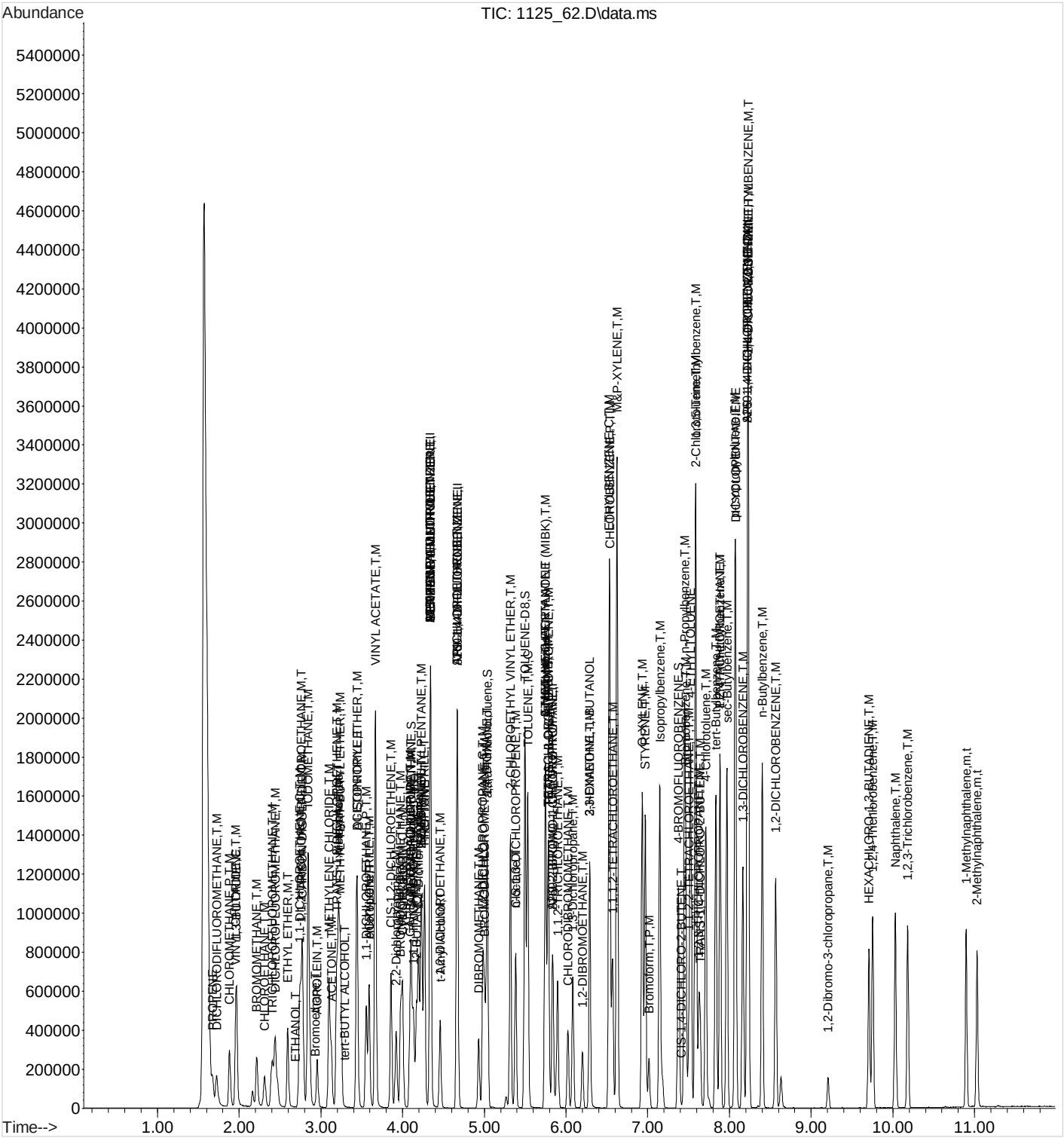
	Compound	R.T.	QIon	Response	Conc Units		Dev(Min)
97)	ETHANOL	2.689	45	1261	14.3927982 ppb	#	34
98)	Bromoethane	2.930	108	8363	1.5263322 ppb		99
99)	2-PROPANOL	3.026	45	535	No Calib	#	
100)	Methyl Acetate	3.216	43	393097	63.7724849 ppb	#	56
101)	ACETONITRILE	3.441	41	138767	113.6635545 ppb	#	38
102)	ALLYL CHLORIDE	0.000		0	N.D.		
103)	tert-BUTYL ALCOHOL	3.290	59	704	0.5153575 ppb	#	58
104)	chloroprene	3.589	53	408263	53.7062838 ppb	#	25
105)	ETHYL TERT-BUTYL ETHER	0.000		0	N.D.		
106)	PROPIONITRILE	4.264	54	3122	2.5734892 ppb	#	1
107)	Ethyl Acetate	4.036	43	2235	N.D.		
108)	METHACRYLONITRILE	4.338	67	1684	0.4731530 ppb	#	1
109)	Cyclohexane	3.997	84	14389	1.4862459 ppb	#	2
110)	tert-butyl formate	4.239	59	945	N.D.		
111)	ISOBUTANOL	4.229	41	228590	514.4281549 ppb	#	1
112)	t-Amyl Alcohol	4.464	59	1390	2.3203907 ppb	#	19
113)	TERT-AMYL METHYL ETHER	4.341	73	15559	0.6620449 ppb	#	78
115)	N-BUTANOL	0.000		0	N.D.		
116)	Methyl Cyclohexane	4.669	83	14704	N.D.		
117)	2-nitropropane	5.747	43	1081740	570.0642803 ppb	#	37
118)	METHYL METHACRYLATE	5.107	41	1625	N.D.		
119)	1,4-DIOXANE	5.033	88	5805	75.8179977 ppb	#	28
120)	n-octane	5.383	85	5059	0.7974386 ppb	#	30
121)	3,3-DIMETHYL-1-BUTANOL	6.290	57	130511	221.8260125 ppb	#	45
123)	ETHYL METHACRYLATE	5.747	69	7879	0.7363792 ppb	#	1
124)	CIS-1,4-DICHLORO-2-BUTENE	7.409	53	3412	1.1958731 ppb	#	24
125)	Cyclohexanone	7.637	55	1600	No Calib	#	
126)	PENTACHLOROETHANE	7.885	117	31219	6.2684479 ppb	#	20
127)	Hexachloroethane	8.534	117	1790	N.D.		

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\MSDchem\1\data\112514\
Data File : 1125 62.D
Acq On : 25 Nov 2014 10:48 pm
Operator : 644
Sample : LCS 1x WG756584
Misc : water IS/SURR14K01013/SPK14K25332
ALS Vial : 62 Sample Multiplier: 1
InstName : VOCMS20

Quant Time: Nov 26 11:02:58 2014
Quant Method : C:\MSDchem\1\methods\V820K23N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS20
QLast Update : Mon Nov 24 14:32:41 2014
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\MSDchem\1\data\112514\
Data File : 1125 63.D
Acq On : 25 Nov 2014 11:06 pm
Operator : 644
Sample : LCSD 1x WG756584
Misc : water IS/SURR14K01013/SPK14K25332
ALS Vial : 63 Sample Multiplier: 1
InstName : VOCMS20

Quant Time: Nov 26 11:03:05 2014
Quant Method : C:\MSDchem\1\methods\V820K23N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS20
QLast Update : Mon Nov 24 14:32:41 2014
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 8260-PENTAFLUOROBENZENE	4.338	168	461162	40.0000000 ppb	0.00
41) 8260-1,4-DIFLUOROBENZENE	4.669	114	851679	40.0000000 ppb	0.00
53) 8260-2-BROMO-1-CHLOROP...	5.837	79	144360	40.0000000 ppb	0.00
84) 8260-1,4-DICHLOROBENZE...	8.219	152	371228	40.0000000 ppb	0.00
96) AP9-PENTAFLUOROBENZENE	4.338	168	461162	40.0000000 ppb	0.00
114) AP9-1,4-DIFLUOROBENZENE	4.669	114	851679	40.0000000 ppb	0.00
122) AP9-2-BROMO-1-CHLOROPR...	5.837	79	144360	40.0000000 ppb	# 0.00
128) AP9-1,4-DICHLOROBENZEN...	8.219	152	371228	40.0000000 ppb	0.00
System Monitoring Compounds					
33) DIBROMOFLUOROMETHANE	4.107	111	247084	39.0820212 ppb	0.00
Spiked Amount 40.000	Range 78 - 121		Recovery = 97.71%		
46) a,a,a-Trifluorotoluene	5.036	146	454743	42.1626332 ppb	0.00
Spiked Amount 40.000	Range 85 - 114		Recovery = 105.41%		
50) TOLUENE-D8	5.496	98	1098473	40.6992625 ppb	0.00
Spiked Amount 40.000	Range 89 - 111		Recovery = 101.75%		
68) 4-BROMOFLUOROBENZENE	7.377	95	381970	40.3503060 ppb	0.00
Spiked Amount 40.000	Range 71 - 126		Recovery = 100.88%		
Target Compounds					Qvalue
2) TPH (GC/MS) LOW FRACTION	4.096	TIC	3063995	No Calib	
3) PROPENE	1.673	41	49934	23.4299565 ppb	96
4) DICHLORODIFLUOROMETHANE	1.721	85	174570	22.9654708 ppb	97
5) CHLOROMETHANE	1.879	50	297769	23.4053799 ppb	99
6) VINYL CHLORIDE	1.956	62	253901	23.8011166 ppb	100
7) 1,3-BUTADIENE	1.965	39	186336	22.2484177 ppb	95
8) BROMOMETHANE	2.213	94	161160	24.0633613 ppb	99
9) CHLOROETHANE	2.313	66	47167	24.8317973 ppb	99
10) TRICHLOROFLUOROMETHANE	2.403	101	237354	24.0483483 ppb	100
11) DICHLOROFLUOROMETHANE	2.441	67	338946	23.6441486 ppb	100
12) ETHYL ETHER	2.592	59	199687	24.7054476 ppb	98
13) ACROLEIN	2.956	56	183447	141.5912977 ppb	99
14) 1,1-DICHLOROETHENE	2.737	61	291192	24.0117799 ppb	94
15) 1,1,2-TRICHLOROTRIFLUO...	2.763	101	168095	25.2111912 ppb	96
16) ACETONE	3.126	43	296712	125.7765051 ppb	98
17) IODOMETHANE	2.843	142	1450801	122.5435387 ppb	99
18) CARBON DISULFIDE	2.772	76	707946	24.3750328 ppb	99
19) METHYLENE CHLORIDE	3.100	84	257405	25.7630126 ppb	98
20) ACRYLONITRILE	3.589	53	408925	129.1664314 ppb	98
21) n-Hexane	3.216	56	219392	24.4891103 ppb	94
22) TRANS-1,2-DICHLOROETHENE	3.194	96	213891	24.0741513 ppb	100
23) METHYL TERT-BUTYL ETHER	3.242	73	627363	25.7762945 ppb #	100
24) 1,1-DICHLOROETHANE	3.554	63	429964	24.7755535 ppb	100
25) VINYL ACETATE	3.666	43	2275284	165.5761889 ppb	99
26) DI-ISOPROPYL ETHER	3.441	45	905486	25.5652756 ppb	99
27) 2,2-Dichloropropane	3.920	77	206102	24.4550398 ppb	98
28) CIS-1,2-DICHLOROETHENE	3.859	96	242913	24.9072504 ppb	99
29) 2-BUTANONE (MEK)	4.168	72	127828	135.4787956 ppb	94
30) BROMOCHLOROMETHANE	3.975	130	132359	24.9142654 ppb	96
31) TETRAHYDROFURAN	4.100	42	68767	24.2842668 ppb	98
32) CHLOROFORM	4.001	83	388093	24.6917432 ppb	99
34) 1,1,1-TRICHLOROETHANE	4.133	97	266331	24.2180572 ppb	99
35) CARBON TETRACHLORIDE	4.091	119	208145	23.6144001 ppb	99

Quantitation Report (QT Reviewed)

Data Path : C:\MSDchem\1\data\112514\
Data File : 1125 63.D
Acq On : 25 Nov 2014 11:06 pm
Operator : 644
Sample : LCSD 1x WG756584
Misc : water IS/SURR14K01013/SPK14K25332
ALS Vial : 63 Sample Multiplier: 1
InstName : VOCMS20

Quant Time: Nov 26 11:03:05 2014
Quant Method : C:\MSDchem\1\methods\V820K23N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS20
QLast Update : Mon Nov 24 14:32:41 2014
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units		Dev(Min)
36) 1,1-Dichloropropene	4.194	75	297665	25.1361905 ppb		98
37) 2,2,4-TRIMETHYLPENTANE	4.229	57	900737	24.8284037 ppb		98
38) HEPTANE	4.268	43	409898	25.2186125 ppb	#	98
39) BENZENE	4.341	78	969909	24.2820189 ppb		99
40) 1,2-DICHLOROETHANE	4.460	62	274834	24.4357121 ppb		99
42) TRICHLOROETHENE	4.666	130	198205	25.0938405 ppb		100
43) 1,2-DICHLOROPROPANE	4.985	62	181283	25.2474594 ppb		100
44) DIBROMOMETHANE	4.930	93	120610	25.8990768 ppb		96
45) BROMODICHLOROMETHANE	5.007	83	295034	24.7603224 ppb		99
47) 2-CHLOROETHYL VINYL ETHER	5.319	63	479632	143.3883240 ppb		100
48) CIS-1,3-DICHLOROPROPENE	5.383	75	384171	26.0410272 ppb		100
49) 4-METHYL-2-PENTANONE (...	5.747	58	411165	138.1293729 ppb		98
51) TOLUENE	5.531	91	976564	23.2686754 ppb		100
52) TRANS-1,3-DICHLOROPROPENE	5.785	110	79604	26.8465042 ppb		99
54) 1,1,2-TRICHLOROETHANE	5.898	97	180763	25.2185176 ppb		98
55) TETRACHLOROETHENE	5.782	164	137240	25.4026409 ppb		98
56) 1,3-Dichloropropane	6.084	76	350407	24.5400047 ppb		99
57) 2-HEXANONE	6.290	58	389820	139.9792943 ppb		98
58) CHLORODIBROMOMETHANE	6.023	129	181375	26.0987856 ppb		98
59) 1,2-DIBROMOETHANE	6.200	107	173082	25.9852074 ppb		98
60) CHLOROBENZENE	6.534	112	589810	24.9886040 ppb		99
61) 1,1,1,2-TETRACHLOROETHANE	6.570	133	184311	25.7692848 ppb	#	100
62) ETHYLBENZENE	6.528	106	323796	26.6264530 ppb		100
63) M&P-XYLENE	6.624	106	820847	53.0052113 ppb		98
64) O-XYLENE	6.933	106	393646	26.8533152 ppb		98
65) STYRENE	6.968	104	640855	26.6741881 ppb		98
66) Bromoform	7.017	173	100231	26.9846473 ppb		98
67) Isopropylbenzene	7.145	105	998235	27.0462460 ppb		99
69) Bromobenzene	7.464	77	494879	24.6848101 ppb		98
70) 1,1,2,2-TETRACHLOROETHANE	7.505	83	246679	26.7764287 ppb		97
71) 1,2,3-TRICHLOROPROPANE	7.628	110	67954	26.4095656 ppb		97
72) TRANS-1,4-DICHLORO-2-B...	7.640	53	70520	26.1167433 ppb		98
73) n-Propylbenzene	7.451	91	1259267	25.5002879 ppb		99
74) 4-ETHYLTOLUENE	7.525	105	1030252	26.2068788 ppb		99
75) 2-Chlorotoluene	7.589	126	232824	25.3024735 ppb		98
76) 4-Chlorotoluene	7.711	91	794728	25.8979665 ppb		99
77) 1,3,5-Trimethylbenzene	7.586	105	874108	26.4634481 ppb		99
78) tert-Butylbenzene	7.833	119	706154	27.3815634 ppb		98
79) 1,2,4-Trimethylbenzene	7.885	105	900892	27.0980185 ppb		98
80) sec-Butylbenzene	7.968	105	1142225	27.3774285 ppb		100
81) 1,3-DICHLOROBENZENE	8.164	146	454762	26.0795211 ppb		100
82) p-Isopropyltoluene	8.068	119	917546	27.8310224 ppb		99
83) DICYCLOPENTADIENE	8.074	66	1120591	26.4842790 ppb		99
85) 1,4-DICHLOROBENZENE	8.232	146	461842	24.1978696 ppb		97
86) 1,2,3-TRIMETHYLBENZENE	8.229	105	944422	25.0781396 ppb		100
87) 1,2-DICHLOROBENZENE	8.566	146	424513	25.0556462 ppb		99
88) n-Butylbenzene	8.399	91	921020	25.7259429 ppb		99
89) 1,2-Dibromo-3-chloropr...	9.206	157	37124	26.8621442 ppb		96
90) 1,2,4-Trichlorobenzene	9.753	180	259368	26.2711188 ppb		99
91) HEXACHLORO-1,3-BUTADIENE	9.708	225	133523	26.0044564 ppb		99
92) Naphthalene	10.029	128	658653	26.3030743 ppb		100
93) 1,2,3-Trichlorobenzene	10.180	180	239565	26.6034770 ppb		100
94) 1-Methylnaphthalene	10.898	142	367490	28.5104283 ppb		99
95) 2-Methylnaphthalene	11.029	142	327501	28.6896944 ppb		99

Quantitation Report (QT Reviewed)

Data Path : C:\MSDchem\1\data\112514\
Data File : 1125 63.D
Acq On : 25 Nov 2014 11:06 pm
Operator : 644
Sample : LCSD 1x WG756584
Misc : water IS/SURR14K01013/SPK14K25332
ALS Vial : 63 Sample Multiplier: 1
InstName : VOCMS20

Quant Time: Nov 26 11:03:05 2014
Quant Method : C:\MSDchem\1\methods\V820K23N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS20
QLast Update : Mon Nov 24 14:32:41 2014
Response via : Initial Calibration

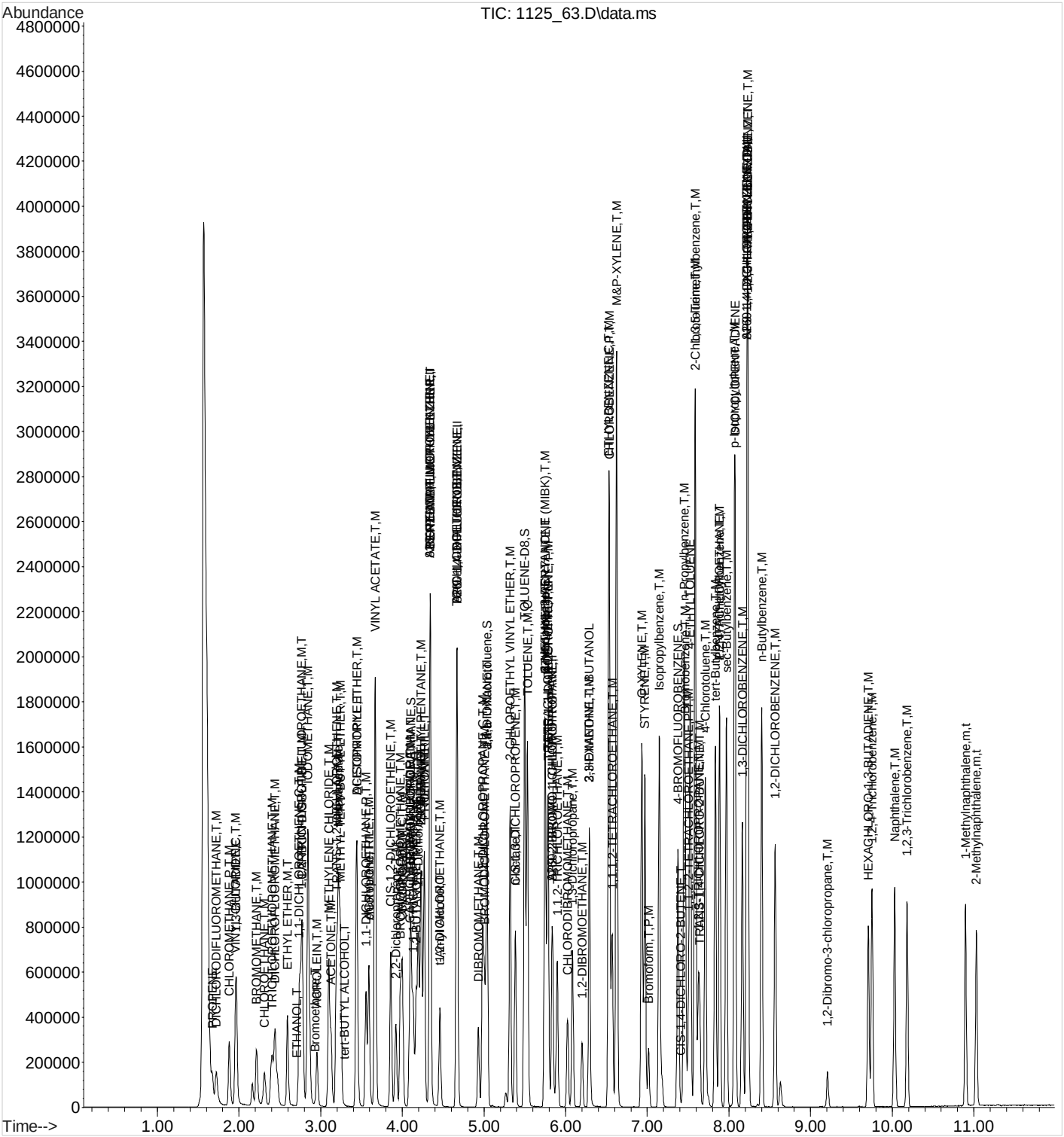
	Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
97)	ETHANOL	2.708	45	782	8.9662340 ppb #	34
98)	Bromoethane	2.933	108	7955	1.4584794 ppb	86
99)	2-PROPANOL	3.026	45	845	No Calib #	
100)	Methyl Acetate	3.216	43	384946	62.7345209 ppb #	56
101)	ACETONITRILE	3.441	41	140282	115.4277278 ppb #	38
102)	ALLYL CHLORIDE	0.000		0	N.D.	
103)	tert-BUTYL ALCOHOL	3.293	59	920	0.6765454 ppb #	58
104)	chloroprene	3.589	53	408925	54.0383283 ppb #	25
105)	ETHYL TERT-BUTYL ETHER	0.000		0	N.D.	
106)	PROPIONITRILE	4.271	54	3539	2.9305098 ppb #	1
107)	Ethyl Acetate	4.039	43	2139	N.D.	
108)	METHACRYLONITRILE	4.332	67	925	N.D.	
109)	Cyclohexane	3.997	84	14739	1.5293301 ppb #	1
110)	tert-butyl formate	4.184	59	539	N.D.	
111)	ISOBUTANOL	4.229	41	217218	491.0621676 ppb #	1
112)	t-Amyl Alcohol	4.457	59	1699	2.8491338 ppb #	19
113)	TERT-AMYL METHYL ETHER	4.341	73	16794	0.7178490 ppb #	77
115)	N-BUTANOL	0.000		0	N.D.	
116)	Methyl Cyclohexane	4.666	83	15750	N.D.	
117)	2-nitropropane	5.747	43	1064919	563.7683335 ppb #	37
118)	METHYL METHACRYLATE	5.097	41	1292	N.D.	
119)	1,4-DIOXANE	5.036	88	5575	73.1472698 ppb #	34
120)	n-octane	5.383	85	5290	0.8376670 ppb #	27
121)	3,3-DIMETHYL-1-BUTANOL	6.290	57	128108	218.7382678 ppb #	45
123)	ETHYL METHACRYLATE	5.750	69	7858	0.7260783 ppb #	1
124)	CIS-1,4-DICHLORO-2-BUTENE	7.409	53	3678	1.2744676 ppb #	18
125)	Cyclohexanone	7.640	55	1948	No Calib #	
126)	PENTACHLOROETHANE	7.885	117	31710	6.2947470 ppb #	18
127)	Hexachloroethane	8.547	117	1587	N.D.	

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\MSDchem\1\data\112514\
Data File : 1125 63.D
Acq On : 25 Nov 2014 11:06 pm
Operator : 644
Sample : LCSD 1x WG756584
Misc : water IS/SURR14K01013/SPK14K25332
ALS Vial : 63 Sample Multiplier: 1
InstName : VOCMS20

Quant Time: Nov 26 11:03:05 2014
Quant Method : C:\MSDchem\1\methods\V820K23N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS20
QLast Update : Mon Nov 24 14:32:41 2014
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\MSDchem\1\data\112514\
Data File : 1125 64.D
Acq On : 25 Nov 2014 11:24 pm
Operator : 644
Sample : MS 1x WG756584 L734231-14
Misc : water IS/SURR14K01013/SPK14K25332
ALS Vial : 64 Sample Multiplier: 1
InstName : VOCMS20

Quant Time: Nov 26 11:03:12 2014
Quant Method : C:\MSDchem\1\methods\V820K23N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS20
QLast Update : Mon Nov 24 14:32:41 2014
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 8260-PENTAFLUOROBENZENE	4.341	168	470197	40.0000000 ppb	0.00
41) 8260-1,4-DIFLUOROBENZENE	4.669	114	862361	40.0000000 ppb	0.00
53) 8260-2-BROMO-1-CHLOROP...	5.837	79	147109	40.0000000 ppb	0.00
84) 8260-1,4-DICHLOROBENZE...	8.219	152	374595	40.0000000 ppb	0.00
96) AP9-PENTAFLUOROBENZENE	4.341	168	470197	40.0000000 ppb	0.00
114) AP9-1,4-DIFLUOROBENZENE	4.669	114	862361	40.0000000 ppb	0.00
122) AP9-2-BROMO-1-CHLOROPR...	5.837	79	147109	40.0000000 ppb	# 0.00
128) AP9-1,4-DICHLOROBENZEN...	8.219	152	374595	40.0000000 ppb	0.00
System Monitoring Compounds					
33) DIBROMOFLUOROMETHANE	4.107	111	248829	38.6017547 ppb	0.00
Spiked Amount 40.000	Range 78 - 121		Recovery = 96.50%		
46) a,a,a-Trifluorotoluene	5.036	146	453067	41.4868982 ppb	0.00
Spiked Amount 40.000	Range 85 - 114		Recovery = 103.72%		
50) TOLUENE-D8	5.499	98	1095509	40.0866657 ppb	0.00
Spiked Amount 40.000	Range 89 - 111		Recovery = 100.22%		
68) 4-BROMOFLUOROBENZENE	7.377	95	380224	39.4152908 ppb	0.00
Spiked Amount 40.000	Range 71 - 126		Recovery = 98.54%		
Target Compounds					Qvalue
2) TPH (GC/MS) LOW FRACTION	4.096	TIC	3896985	No Calib	
3) PROPENE	1.679	41	45410	20.8977864 ppb	97
4) DICHLORODIFLUOROMETHANE	1.721	85	190259	24.5484803 ppb	98
5) CHLOROMETHANE	1.882	50	276919	21.3482670 ppb	99
6) VINYL CHLORIDE	1.959	62	263863	24.2596805 ppb	100
7) 1,3-BUTADIENE	1.965	39	179893	21.0663980 ppb	95
8) BROMOMETHANE	2.213	94	148214	21.7051065 ppb	98
9) CHLOROETHANE	2.313	66	50004	25.8195285 ppb	100
10) TRICHLOROFLUOROMETHANE	2.403	101	256827	25.5213144 ppb	99
11) DICHLOROFLUOROMETHANE	2.441	67	348548	23.8467623 ppb	99
12) ETHYL ETHER	2.592	59	211228	25.6311493 ppb	97
13) ACROLEIN	2.956	56	200361	151.6745792 ppb	99
14) 1,1-DICHLOROETHENE	2.737	61	304923	24.6608907 ppb	94
15) 1,1,2-TRICHLOROTRIFLUO...	2.759	101	187896	27.6394735 ppb	95
16) ACETONE	3.129	43	325205	135.2057888 ppb	100
17) IODOMETHANE	2.843	142	1470597	121.8287833 ppb	99
18) CARBON DISULFIDE	2.772	76	783583	26.4608470 ppb	98
19) METHYLENE CHLORIDE	3.100	84	251946	24.7320887 ppb	99
20) ACRYLONITRILE	3.589	53	449058	139.1176063 ppb	99
21) n-Hexane	3.216	56	237799	26.0337004 ppb	94
22) TRANS-1,2-DICHLOROETHENE	3.194	96	220184	24.3062462 ppb	97
23) METHYL TERT-BUTYL ETHER	3.242	73	662439	26.6944597 ppb #	100
24) 1,1-DICHLOROETHANE	3.554	63	434130	24.5349247 ppb	99
25) VINYL ACETATE	3.666	43	2707497	193.2430633 ppb	99
26) DI-ISOPROPYL ETHER	3.441	45	930387	25.7635695 ppb	99
27) 2,2-Dichloropropane	3.920	77	217620	25.3255353 ppb	99
28) CIS-1,2-DICHLOROETHENE	3.859	96	247306	24.8704328 ppb	99
29) 2-BUTANONE (MEK)	4.171	72	141958	147.5634721 ppb	95
30) BROMOCHLOROMETHANE	3.978	130	135284	24.9755296 ppb	96
31) TETRAHYDROFURAN	4.103	42	78232	27.0958645 ppb	97
32) CHLOROFORM	4.001	83	390008	24.3367801 ppb	99
34) 1,1,1-TRICHLOROETHANE	4.132	97	282998	25.2391432 ppb	99
35) CARBON TETRACHLORIDE	4.091	119	223177	24.8332769 ppb	94

Quantitation Report (QT Reviewed)

Data Path : C:\MSDchem\1\data\112514\
Data File : 1125 64.D
Acq On : 25 Nov 2014 11:24 pm
Operator : 644
Sample : MS 1x WG756584 L734231-14
Misc : water IS/SURR14K01013/SPK14K25332
ALS Vial : 64 Sample Multiplier: 1
InstName : VOCMS20

Quant Time: Nov 26 11:03:12 2014
Quant Method : C:\MSDchem\1\methods\V820K23N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS20
QLast Update : Mon Nov 24 14:32:41 2014
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
36)	1,1-Dichloropropene	4.194	75	310969	25.7550528	ppb		99
37)	2,2,4-TRIMETHYLPENTANE	4.229	57	989488	26.7506899	ppb		99
38)	HEPTANE	4.267	43	447658	27.0125385	ppb	#	100
39)	BENZENE	4.341	78	978942	24.0372304	ppb		100
40)	1,2-DICHLOROETHANE	4.460	62	290615	25.3423117	ppb		100
42)	TRICHLOROETHENE	4.666	130	197239	24.6622190	ppb		98
43)	1,2-DICHLOROPROPANE	4.984	62	185056	25.4536815	ppb		100
44)	DIBROMOMETHANE	4.930	93	123503	26.1917975	ppb		95
45)	BROMODICHLOROMETHANE	5.007	83	299832	24.8512959	ppb		99
47)	2-CHLOROETHYL VINYL ETHER	5.319	63	14861	4.3877361	ppb		95
48)	CIS-1,3-DICHLOROPROPENE	5.383	75	382618	25.6144929	ppb		100
49)	4-METHYL-2-PENTANONE (...	5.747	58	465131	154.3234835	ppb		97
51)	TOLUENE	5.531	91	983353	23.1402065	ppb		99
52)	TRANS-1,3-DICHLOROPROPENE	5.785	110	83056	27.6637272	ppb		97
54)	1,1,2-TRICHLOROETHANE	5.898	97	189991	26.0106181	ppb		99
55)	TETRACHLOROETHENE	5.782	164	141279	25.6615806	ppb		98
56)	1,3-Dichloropropane	6.084	76	366311	25.1744191	ppb		99
57)	2-HEXANONE	6.290	58	441300	155.5038837	ppb		99
58)	CHLORODIBROMOMETHANE	6.023	129	187588	26.4883897	ppb		98
59)	1,2-DIBROMOETHANE	6.200	107	184174	27.1337758	ppb		98
60)	CHLOROBENZENE	6.534	112	599398	24.9202723	ppb		99
61)	1,1,1,2-TETRACHLOROETHANE	6.570	133	187034	25.6613383	ppb	#	99
62)	ETHYLBENZENE	6.528	106	325811	26.2914906	ppb		98
63)	M&P-XYLENE	6.624	106	832871	52.7766385	ppb		98
64)	O-XYLENE	6.933	106	396341	26.5319211	ppb		99
65)	STYRENE	6.972	104	640359	26.1554732	ppb		100
66)	Bromoform	7.017	173	108273	28.6050349	ppb		99
67)	Isopropylbenzene	7.148	105	1034788	27.5127001	ppb		99
69)	Bromobenzene	7.463	77	504631	24.7008741	ppb		97
70)	1,1,2,2-TETRACHLOROETHANE	7.508	83	267998	28.5469462	ppb		100
71)	1,2,3-TRICHLOROPROPANE	7.624	110	73225	27.9262899	ppb		99
72)	TRANS-1,4-DICHLORO-2-B...	7.644	53	75781	27.5406813	ppb		97
73)	n-Propylbenzene	7.451	91	1295415	25.7420905	ppb		99
74)	4-ETHYLTOLUENE	7.528	105	1072055	26.7606421	ppb		100
75)	2-Chlorotoluene	7.589	126	237534	25.3319513	ppb		98
76)	4-Chlorotoluene	7.711	91	798963	25.5494437	ppb		98
77)	1,3,5-Trimethylbenzene	7.586	105	893178	26.5354822	ppb		99
78)	tert-Butylbenzene	7.833	119	723815	27.5419082	ppb		99
79)	1,2,4-Trimethylbenzene	7.885	105	920236	27.1626197	ppb		99
80)	sec-Butylbenzene	7.968	105	1187197	27.9236003	ppb		99
81)	1,3-DICHLOROBENZENE	8.164	146	460786	25.9311842	ppb		98
82)	p-Isopropyltoluene	8.068	119	966014	28.7536091	ppb		98
83)	DICYCLOPENTADIENE	8.074	66	1155391	26.7964730	ppb		100
85)	1,4-DICHLOROBENZENE	8.232	146	478705	24.8559531	ppb		95
86)	1,2,3-TRIMETHYLBENZENE	8.229	105	975287	25.6649489	ppb		99
87)	1,2-DICHLOROBENZENE	8.566	146	437314	25.5791874	ppb		99
88)	n-Butylbenzene	8.399	91	979797	27.1217117	ppb		99
89)	1,2-Dibromo-3-chloropr...	9.209	157	41444	29.7184618	ppb		96
90)	1,2,4-Trichlorobenzene	9.753	180	274454	27.5492950	ppb		98
91)	HEXACHLORO-1,3-BUTADIENE	9.708	225	141036	27.2207715	ppb		99
92)	Naphthalene	10.029	128	744153	29.4503747	ppb		100
93)	1,2,3-Trichlorobenzene	10.184	180	261093	28.7335317	ppb		100
94)	1-Methylnaphthalene	10.897	142	415004	31.9072406	ppb		99
95)	2-Methylnaphthalene	11.032	142	370010	32.1222163	ppb		98

Quantitation Report (QT Reviewed)

Data Path : C:\MSDchem\1\data\112514\
Data File : 1125 64.D
Acq On : 25 Nov 2014 11:24 pm
Operator : 644
Sample : MS 1x WG756584 L734231-14
Misc : water IS/SURR14K01013/SPK14K25332
ALS Vial : 64 Sample Multiplier: 1
InstName : VOCMS20

Quant Time: Nov 26 11:03:12 2014
Quant Method : C:\MSDchem\1\methods\V820K23N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS20
QLast Update : Mon Nov 24 14:32:41 2014
Response via : Initial Calibration

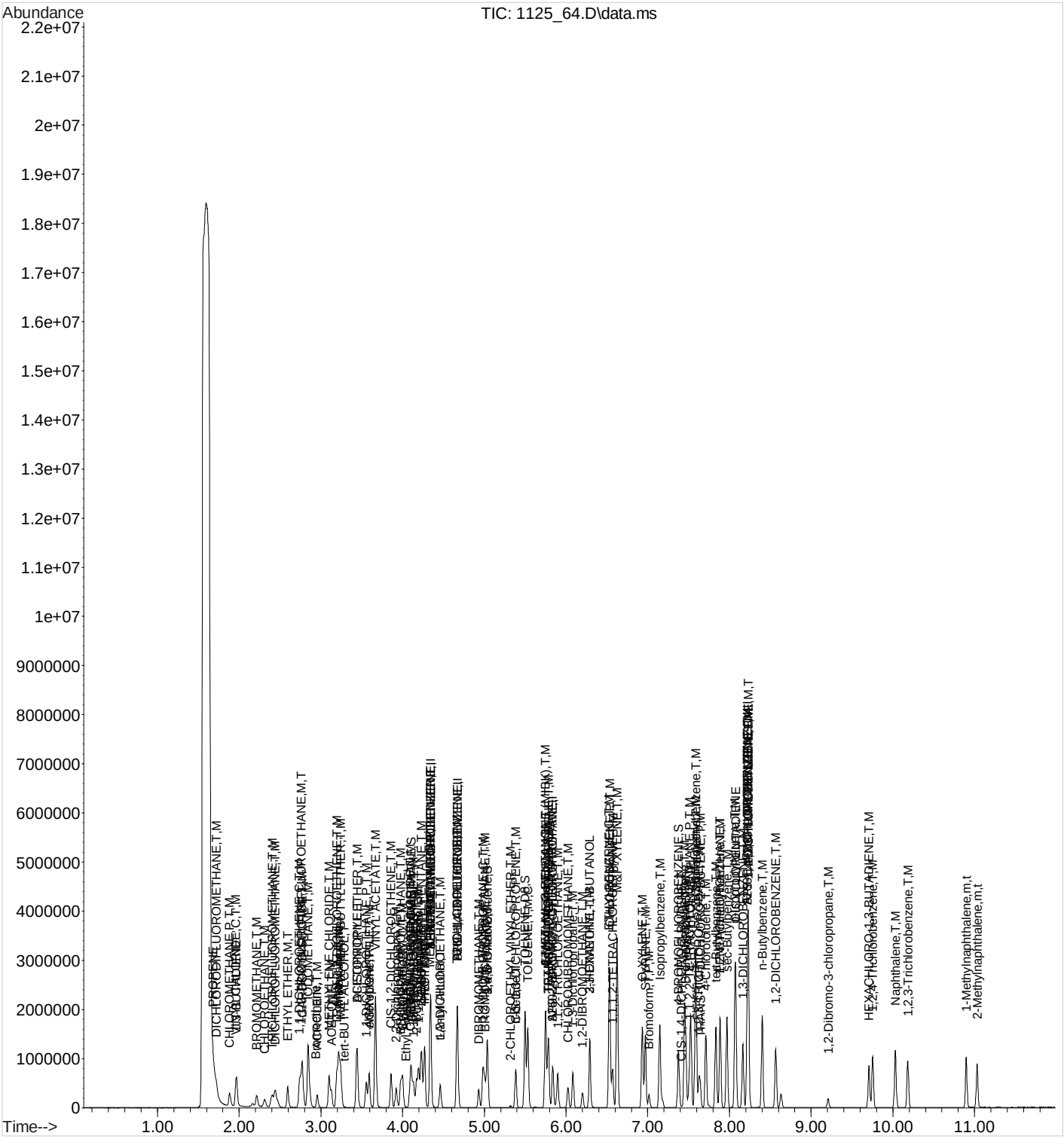
	Compound	R.T.	QIon	Response	Conc Units		Dev(Min)
97)	ETHANOL	0.000		0	N.D.		
98)	Bromoethane	2.936	108	3529	0.6345786 ppb		94
99)	2-PROPANOL	3.023	45	854	No Calib	#	
100)	Methyl Acetate	3.216	43	415604	66.4293730 ppb	#	56
101)	ACETONITRILE	3.441	41	141760	114.4025124 ppb	#	39
102)	ALLYL CHLORIDE	0.000		0	N.D.		
103)	tert-BUTYL ALCOHOL	3.284	59	5072	3.6581543 ppb	#	58
104)	chloroprene	3.589	53	449058	58.2015219 ppb	#	25
105)	ETHYL TERT-BUTYL ETHER	0.000		0	N.D.		
106)	PROPIONITRILE	4.271	54	3827	3.1080983 ppb	#	1
107)	Ethyl Acetate	4.039	43	6543	0.7517065 ppb	#	87
108)	METHACRYLONITRILE	4.335	67	1398	0.3870022 ppb	#	1
109)	Cyclohexane	4.001	84	14809	1.5070672 ppb	#	1
110)	tert-butyl formate	4.229	59	719	N.D.		
111)	ISOBUTANOL	4.229	41	242611	537.9288216 ppb	#	1
112)	t-Amyl Alcohol	4.457	59	1916	3.1512919 ppb	#	19
113)	TERT-AMYL METHYL ETHER	4.341	73	16589	0.6954610 ppb	#	75
115)	N-BUTANOL	0.000		0	N.D.		
116)	Methyl Cyclohexane	4.669	83	16524	N.D.		
117)	2-nitropropane	5.750	43	1197166	625.9293384 ppb	#	37
118)	METHYL METHACRYLATE	5.110	41	1142	N.D.		
119)	1,4-DIOXANE	5.036	88	5297	68.6388587 ppb	#	32
120)	n-octane	5.383	85	5182	0.8104011 ppb	#	22
121)	3,3-DIMETHYL-1-BUTANOL	6.290	57	145638	245.5896472 ppb	#	44
123)	ETHYL METHACRYLATE	5.750	69	8536	0.7739866 ppb	#	1
124)	CIS-1,4-DICHLORO-2-BUTENE	7.412	53	3929	1.3360009 ppb	#	23
125)	Cyclohexanone	7.644	55	1869	No Calib	#	
126)	PENTACHLOROETHANE	7.885	117	32103	6.2536747 ppb	#	20
127)	Hexachloroethane	8.544	117	1465	N.D.		

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\MSDchem\1\data\112514\
Data File : 1125 64.D
Acq On : 25 Nov 2014 11:24 pm
Operator : 644
Sample : MS 1x WG756584 L734231-14
Misc : water IS/SURR14K01013/SPK14K25332
ALS Vial : 64 Sample Multiplier: 1
InstName : VOCMS20

Quant Time: Nov 26 11:03:12 2014
Quant Method : C:\MSDchem\1\methods\V820K23N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS20
QLast Update : Mon Nov 24 14:32:41 2014
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\MSDchem\1\data\112514\
Data File : 1125 65.D
Acq On : 25 Nov 2014 11:42 pm
Operator : 644
Sample : MSD 1x WG756584 L734231-14
Misc : water IS/SURR14K01013/SPK14K25332
ALS Vial : 65 Sample Multiplier: 1
InstName : VOCMS20

Quant Time: Nov 26 11:03:19 2014
Quant Method : C:\MSDchem\1\methods\V820K23N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS20
QLast Update : Mon Nov 24 14:32:41 2014
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 8260-PENTAFLUOROBENZENE	4.338	168	468875	40.0000000 ppb	0.00
41) 8260-1,4-DIFLUOROBENZENE	4.669	114	869103	40.0000000 ppb	0.00
53) 8260-2-BROMO-1-CHLOROP...	5.837	79	148141	40.0000000 ppb	0.00
84) 8260-1,4-DICHLOROBENZE...	8.219	152	372142	40.0000000 ppb	0.00
96) AP9-PENTAFLUOROBENZENE	4.338	168	468875	40.0000000 ppb	0.00
114) AP9-1,4-DIFLUOROBENZENE	4.669	114	869103	40.0000000 ppb	0.00
122) AP9-2-BROMO-1-CHLOROPR...	5.837	79	148141	40.0000000 ppb	# 0.00
128) AP9-1,4-DICHLOROBENZEN...	8.219	152	372142	40.0000000 ppb	0.00
System Monitoring Compounds					
33) DIBROMOFLUOROMETHANE	4.107	111	249126	38.7567975 ppb	0.00
Spiked Amount 40.000	Range 78 - 121		Recovery = 96.89%		
46) a,a,a-Trifluorotoluene	5.036	146	453965	41.2466579 ppb	0.00
Spiked Amount 40.000	Range 85 - 114		Recovery = 103.12%		
50) TOLUENE-D8	5.499	98	1091208	39.6195359 ppb	0.00
Spiked Amount 40.000	Range 89 - 111		Recovery = 99.05%		
68) 4-BROMOFLUOROBENZENE	7.377	95	383778	39.5065636 ppb	0.00
Spiked Amount 40.000	Range 71 - 126		Recovery = 98.77%		
Target Compounds					Qvalue
2) TPH (GC/MS) LOW FRACTION	4.096	TIC	3590492	No Calib	
3) PROPENE	1.679	41	44742	20.6484262 ppb	99
4) DICHLORODIFLUOROMETHANE	1.721	85	190169	24.6060499 ppb	97
5) CHLOROMETHANE	1.882	50	276776	21.3974035 ppb	99
6) VINYL CHLORIDE	1.959	62	266939	24.6116872 ppb	99
7) 1,3-BUTADIENE	1.965	39	187323	21.9983396 ppb	94
8) BROMOMETHANE	2.213	94	156272	22.9496803 ppb	98
9) CHLOROETHANE	2.309	66	51814	26.8295543 ppb	98
10) TRICHLOROFLUOROMETHANE	2.399	101	257649	25.6751859 ppb	99
11) DICHLOROFLUOROMETHANE	2.441	67	350798	24.0683719 ppb	100
12) ETHYL ETHER	2.592	59	209441	25.4859645 ppb	98
13) ACROLEIN	2.952	56	200362	152.1029871 ppb	98
14) 1,1-DICHLOROETHENE	2.737	61	306774	24.8805456 ppb	95
15) 1,1,2-TRICHLOROTRIFLUO...	2.760	101	190215	28.0594898 ppb	98
16) ACETONE	3.126	43	326739	136.2265708 ppb	98
17) IODOMETHANE	2.843	142	1460576	121.3397702 ppb	99
18) CARBON DISULFIDE	2.772	76	767948	26.0059861 ppb	99
19) METHYLENE CHLORIDE	3.100	84	248554	24.4679093 ppb	99
20) ACRYLONITRILE	3.589	53	444645	138.1388539 ppb	99
21) n-Hexane	3.216	56	234821	25.7801589 ppb	92
22) TRANS-1,2-DICHLOROETHENE	3.194	96	217934	24.1256988 ppb	97
23) METHYL TERT-BUTYL ETHER	3.239	73	653813	26.4211411 ppb #	100
24) 1,1-DICHLOROETHANE	3.554	63	428360	24.2770894 ppb	100
25) VINYL ACETATE	3.666	43	2700441	193.2828849 ppb	100
26) DI-ISOPROPYL ETHER	3.441	45	919395	25.5309699 ppb	100
27) 2,2-Dichloropropane	3.920	77	214009	24.9755260 ppb	98
28) CIS-1,2-DICHLOROETHENE	3.856	96	242200	24.4256205 ppb	99
29) 2-BUTANONE (MEK)	4.168	72	139560	145.4798119 ppb	96
30) BROMOCHLOROMETHANE	3.975	130	136967	25.3575324 ppb	90
31) TETRAHYDROFURAN	4.100	42	76434	26.5477637 ppb	100
32) CHLOROFORM	4.001	83	381615	23.8801921 ppb	98
34) 1,1,1-TRICHLOROETHANE	4.132	97	282438	25.2602209 ppb	99
35) CARBON TETRACHLORIDE	4.091	119	220615	24.6174129 ppb	93

Quantitation Report (QT Reviewed)

Data Path : C:\MSDchem\1\data\112514\
Data File : 1125 65.D
Acq On : 25 Nov 2014 11:42 pm
Operator : 644
Sample : MSD 1x WG756584 L734231-14
Misc : water IS/SURR14K01013/SPK14K25332
ALS Vial : 65 Sample Multiplier: 1
InstName : VOCMS20

Quant Time: Nov 26 11:03:19 2014
Quant Method : C:\MSDchem\1\methods\V820K23N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS20
QLast Update : Mon Nov 24 14:32:41 2014
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units		Dev(Min)
36) 1,1-Dichloropropene	4.194	75	308561	25.6276720 ppb		99
37) 2,2,4-TRIMETHYLPENTANE	4.229	57	974661	26.4241375 ppb		99
38) HEPTANE	4.267	43	446202	27.0005952 ppb	#	99
39) BENZENE	4.341	78	972261	23.9404939 ppb		100
40) 1,2-DICHLOROETHANE	4.460	62	286016	25.0115903 ppb		100
42) TRICHLOROETHENE	4.666	130	198682	24.6499328 ppb		99
43) 1,2-DICHLOROPROPANE	4.984	62	182039	24.8444699 ppb		99
44) DIBROMOMETHANE	4.930	93	126110	26.5372051 ppb		97
45) BROMODICHLOROMETHANE	5.007	83	299061	24.5951060 ppb		99
47) 2-CHLOROETHYL VINYL ETHER	5.322	63	12026	3.5231532 ppb	#	98
48) CIS-1,3-DICHLOROPROPENE	5.383	75	385091	25.5800620 ppb		100
49) 4-METHYL-2-PENTANONE (...	5.750	58	463261	152.5107060 ppb		98
51) TOLUENE	5.531	91	974436	22.7524915 ppb		100
52) TRANS-1,3-DICHLOROPROPENE	5.785	110	82396	27.2310050 ppb		97
54) 1,1,2-TRICHLOROETHANE	5.898	97	189835	25.8082110 ppb		98
55) TETRACHLOROETHENE	5.779	164	139023	25.0758935 ppb		98
56) 1,3-Dichloropropane	6.084	76	363598	24.8138958 ppb		100
57) 2-HEXANONE	6.290	58	443406	155.1575272 ppb		98
58) CHLORODIBROMOMETHANE	6.023	129	186327	26.1270435 ppb		96
59) 1,2-DIBROMOETHANE	6.200	107	183806	26.8909142 ppb		100
60) CHLOROBENZENE	6.534	112	593799	24.5155097 ppb		99
61) 1,1,1,2-TETRACHLOROETHANE	6.570	133	186980	25.4752155 ppb	#	98
62) ETHYLBENZENE	6.528	106	323672	25.9369300 ppb		99
63) M&P-XYLENE	6.624	106	819011	51.5368287 ppb		99
64) O-XYLENE	6.933	106	400774	26.6417781 ppb		96
65) STYRENE	6.968	104	634686	25.7431658 ppb		100
66) Bromoform	7.017	173	106971	28.0641789 ppb		99
67) Isopropylbenzene	7.148	105	1026341	27.0980151 ppb		100
69) Bromobenzene	7.463	77	497538	24.1840272 ppb		97
70) 1,1,2,2-TETRACHLOROETHANE	7.509	83	273720	28.9533358 ppb		99
71) 1,2,3-TRICHLOROPROPANE	7.627	110	73531	27.8476342 ppb		99
72) TRANS-1,4-DICHLORO-2-B...	7.640	53	76790	27.7129646 ppb		99
73) n-Propylbenzene	7.451	91	1285581	25.3687056 ppb		99
74) 4-ETHYLTOLUENE	7.528	105	1064261	26.3810200 ppb		100
75) 2-Chlorotoluene	7.589	126	238993	25.3099924 ppb		94
76) 4-Chlorotoluene	7.711	91	800740	25.4278872 ppb		98
77) 1,3,5-Trimethylbenzene	7.586	105	888476	26.2119082 ppb		99
78) tert-Butylbenzene	7.833	119	716645	27.0791167 ppb		99
79) 1,2,4-Trimethylbenzene	7.885	105	907207	26.5914977 ppb		98
80) sec-Butylbenzene	7.968	105	1180707	27.5774898 ppb		99
81) 1,3-DICHLOROBENZENE	8.164	146	458464	25.6207763 ppb		98
82) p-Isopropyltoluene	8.068	119	949497	28.0650947 ppb		99
83) DICYCLOPENTADIENE	8.074	66	1131863	26.0679266 ppb		99
85) 1,4-DICHLOROBENZENE	8.232	146	471452	24.6407106 ppb		97
86) 1,2,3-TRIMETHYLBENZENE	8.229	105	957050	25.3510461 ppb		99
87) 1,2-DICHLOROBENZENE	8.566	146	432965	25.4917377 ppb		99
88) n-Butylbenzene	8.399	91	959891	26.7458373 ppb		100
89) 1,2-Dibromo-3-chloropr...	9.209	157	41205	29.7418425 ppb		94
90) 1,2,4-Trichlorobenzene	9.753	180	269205	27.2005281 ppb		98
91) HEXACHLORO-1,3-BUTADIENE	9.708	225	139500	27.1017880 ppb		100
92) Naphthalene	10.029	128	735150	29.2858503 ppb		99
93) 1,2,3-Trichlorobenzene	10.184	180	256083	28.3679413 ppb		100
94) 1-Methylnaphthalene	10.897	142	413552	32.0051878 ppb		100
95) 2-Methylnaphthalene	11.032	142	367299	32.0970468 ppb		98

Quantitation Report (QT Reviewed)

Data Path : C:\MSDchem\1\data\112514\
Data File : 1125 65.D
Acq On : 25 Nov 2014 11:42 pm
Operator : 644
Sample : MSD 1x WG756584 L734231-14
Misc : water IS/SURR14K01013/SPK14K25332
ALS Vial : 65 Sample Multiplier: 1
InstName : VOCMS20

Quant Time: Nov 26 11:03:19 2014
Quant Method : C:\MSDchem\1\methods\V820K23N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS20
QLast Update : Mon Nov 24 14:32:41 2014
Response via : Initial Calibration

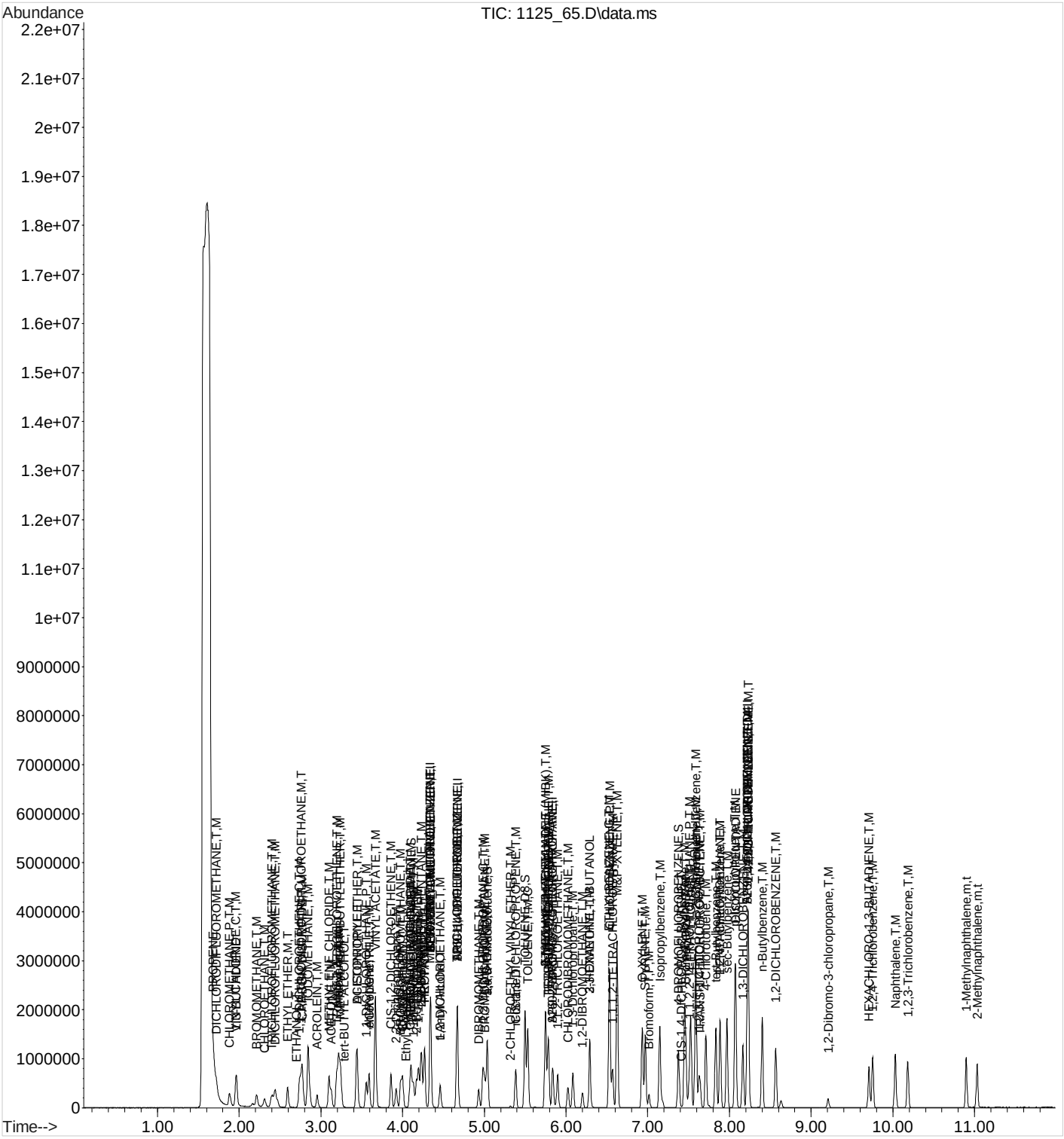
	Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
97)	ETHANOL	2.702	45	604	6.8114048 ppb #	34
98)	Bromoethane	2.924	108	1529	N.D.	
99)	2-PROPANOL	3.023	45	1389	No Calib #	
100)	Methyl Acetate	3.216	43	402899	64.5802022 ppb #	56
101)	ACETONITRILE	3.441	41	141083	114.1771821 ppb #	39
102)	ALLYL CHLORIDE	2.981	76	555	N.D.	
103)	tert-BUTYL ALCOHOL	3.284	59	4216	3.0493421 ppb #	58
104)	chloroprene	3.589	53	444645	57.7920491 ppb #	25
105)	ETHYL TERT-BUTYL ETHER	0.000		0	N.D.	
106)	PROPIONITRILE	4.267	54	3685	3.0012111 ppb #	1
107)	Ethyl Acetate	4.039	43	6551	0.7547476 ppb #	83
108)	METHACRYLONITRILE	4.335	67	1529	0.4244598 ppb #	1
109)	Cyclohexane	3.997	84	14100	1.4389602 ppb #	2
110)	tert-butyl formate	4.200	59	1372	N.D.	
111)	ISOBUTANOL	4.229	41	236495	525.8465948 ppb #	1
112)	t-Amyl Alcohol	4.457	59	1635	2.6967064 ppb #	19
113)	TERT-AMYL METHYL ETHER	4.341	73	15933	0.6698428 ppb #	72
115)	N-BUTANOL	0.000		0	N.D.	
116)	Methyl Cyclohexane	4.669	83	14801	N.D.	
117)	2-nitropropane	5.747	43	1198522	621.7772141 ppb #	37
118)	METHYL METHACRYLATE	5.110	41	948	N.D.	
119)	1,4-DIOXANE	5.033	88	5730	73.6737135 ppb #	31
120)	n-octane	5.386	85	5154	0.7997695 ppb #	22
121)	3,3-DIMETHYL-1-BUTANOL	6.290	57	148397	248.3009200 ppb #	47
123)	ETHYL METHACRYLATE	5.750	69	8380	0.7545483 ppb #	1
124)	CIS-1,4-DICHLORO-2-BUTENE	7.409	53	3242	1.0947166 ppb #	21
125)	Cyclohexanone	7.644	55	1497	No Calib #	
126)	PENTACHLOROETHANE	7.885	117	31379	6.0700566 ppb #	22
127)	Hexachloroethane	8.537	117	1821	N.D.	

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\MSDchem\1\data\112514\
Data File : 1125 65.D
Acq On : 25 Nov 2014 11:42 pm
Operator : 644
Sample : MSD 1x WG756584 L734231-14
Misc : water IS/SURR14K01013/SPK14K25332
ALS Vial : 65 Sample Multiplier: 1
InstName : VOCMS20

Quant Time: Nov 26 11:03:19 2014
Quant Method : C:\MSDchem\1\methods\V820K23N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS20
QLast Update : Mon Nov 24 14:32:41 2014
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\MSDchem\1\data\112514\
Data File : 1125 67.D
Acq On : 26 Nov 2014 12:19 am
Operator : 644
Sample : BLANK 1x WG756584
Misc : water IS/SURR14K01013
ALS Vial : 67 Sample Multiplier: 1
InstName : VOCMS20

Quant Time: Nov 18 15:04:51 2015
Quant Method : C:\MSDchem\1\methods\V820K23N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS20
QLast Update : Mon Nov 24 14:32:41 2014
Response via : Initial Calibration

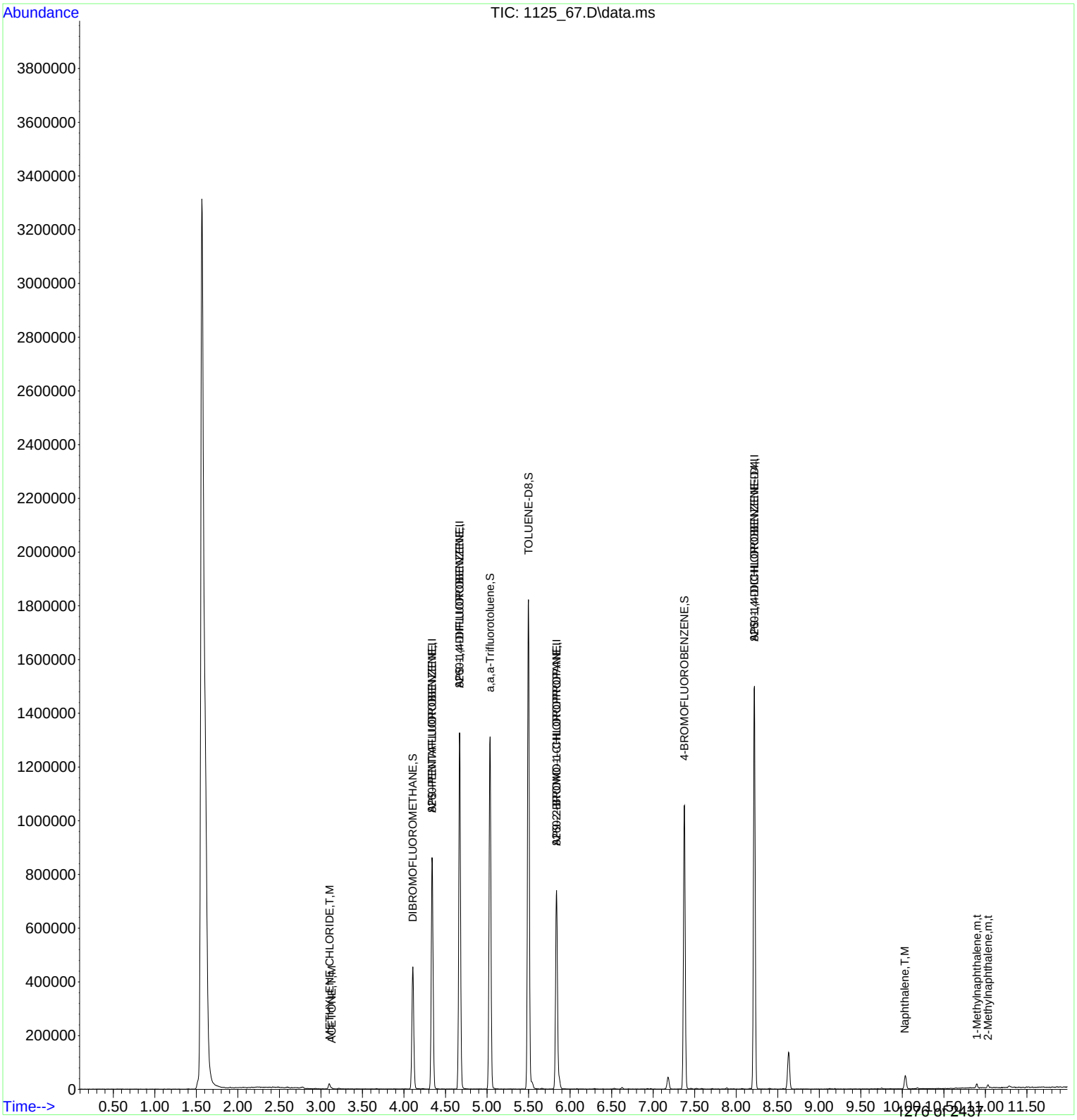
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 8260-PENTAFLUOROBENZENE	4.338	168	434524	40.0000000 ppb	0.00
41) 8260-1,4-DIFLUOROBENZENE	4.669	114	821662	40.0000000 ppb	0.00
53) 8260-2-BROMO-1-CHLOROP...	5.837	79	132744	40.0000000 ppb	0.00
84) 8260-1,4-DICHLOROBENZE...	8.219	152	337926	40.0000000 ppb	0.00
96) AP9-PENTAFLUOROBENZENE	4.338	168	434524	40.0000000 ppb	0.00
114) AP9-1,4-DIFLUOROBENZENE	4.669	114	821662	40.0000000 ppb	0.00
122) AP9-2-BROMO-1-CHLOROPR...	5.837	79	132744	40.0000000 ppb	# 0.00
128) AP9-1,4-DICHLOROBENZEN...	8.219	152	337926	40.0000000 ppb	0.00
System Monitoring Compounds					
33) DIBROMOFLUOROMETHANE	4.107	111	236252	39.6595362 ppb	0.00
Spiked Amount 40.000	Range 78 - 121		Recovery = 99.15%		
46) a,a,a-Trifluorotoluene	5.036	146	438873	42.1777399 ppb	0.00
Spiked Amount 40.000	Range 85 - 114		Recovery = 105.44%		
50) TOLUENE-D8	5.499	98	1023262	39.2976641 ppb	0.00
Spiked Amount 40.000	Range 89 - 111		Recovery = 98.24%		
68) 4-BROMOFLUOROBENZENE	7.377	95	347806	39.9564247 ppb	0.00
Spiked Amount 40.000	Range 71 - 126		Recovery = 99.89%		
Target Compounds					Qvalue
16) ACETONE	3.129	43	4354	1.9588112 ppb #	87
19) METHYLENE CHLORIDE	3.104	84	7092	0.7533350 ppb	97
92) Naphthalene	10.029	128	7158	0.3140224 ppb	94
94) 1-Methylnaphthalene	10.898	142	6678	0.5691461 ppb	95
95) 2-Methylnaphthalene	11.029	142	5314	0.5113920 ppb	92

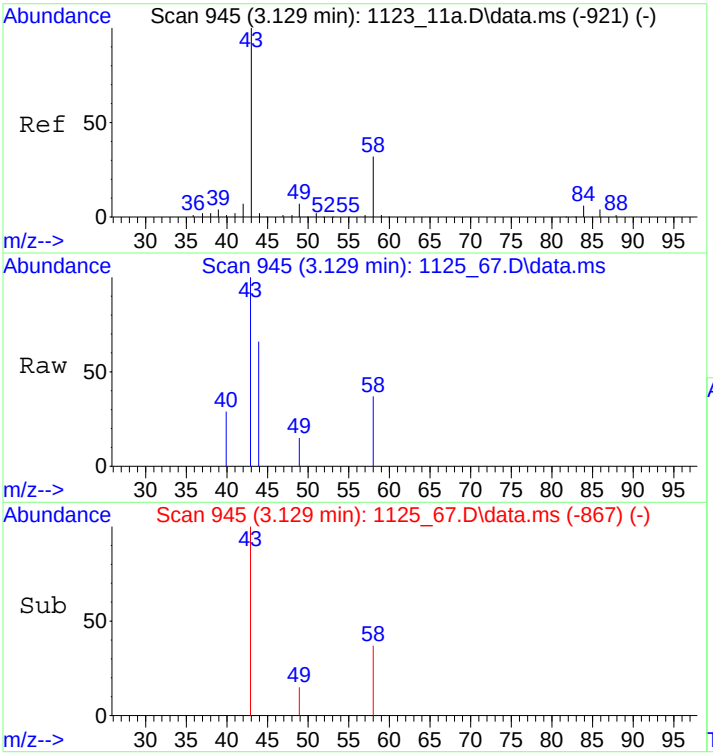
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\MSDchem\1\data\112514\
Data File : 1125 67.D
Acq On : 26 Nov 2014 12:19 am
Operator : 644
Sample : BLANK 1x WG756584
Misc : water IS/SURR14K01013
ALS Vial : 67 Sample Multiplier: 1
InstName : VOCMS20

Quant Time: Nov 18 15:04:51 2015
Quant Method : C:\MSDchem\1\methods\V820K23N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS20
QLast Update : Mon Nov 24 14:32:41 2014
Response via : Initial Calibration

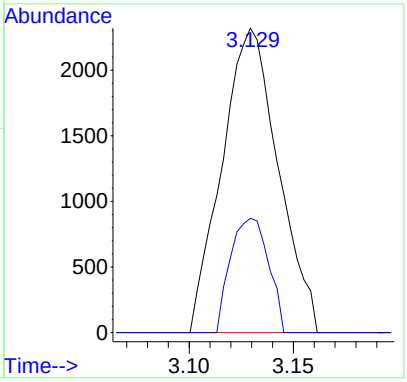


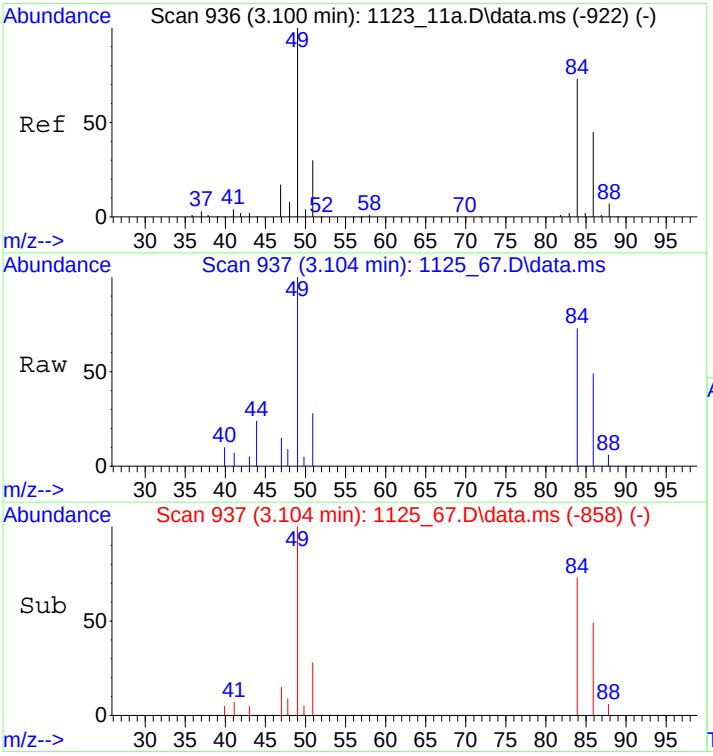


#16
ACETONE
Concen: 1.9588112 ppb
RT: 3.129 min Scan# 945
Delta R.T. 0.000 min
Lab File: 1125 67.D
Acq: 26 Nov 2014 12:19 am

Tgt Ion: 43 Resp: 4354

Ion	Ratio	Lower	Upper
43	100		
58	25.3	26.3	39.5#

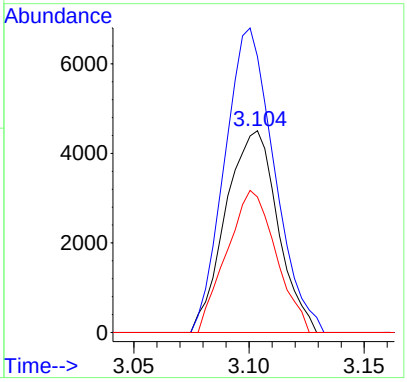


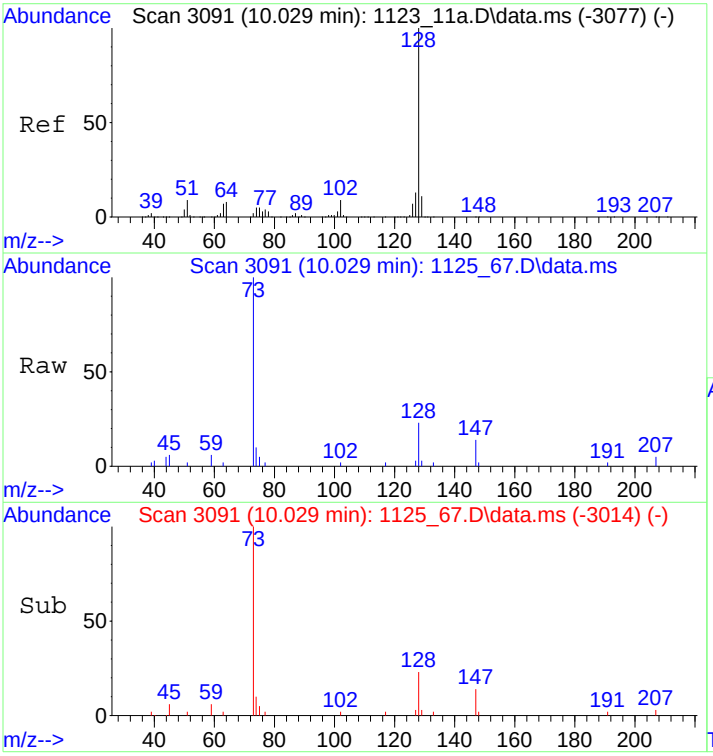


#19
METHYLENE CHLORIDE
Concen: 0.7533350 ppb
RT: 3.104 min Scan# 937
Delta R.T. 0.003 min
Lab File: 1125_67.D
Acq: 26 Nov 2014 12:19 am

Tgt Ion: 84 Resp: 7092

Ion	Ratio	Lower	Upper
84	100		
49	143.8	111.3	166.9
86	66.4	51.7	77.5

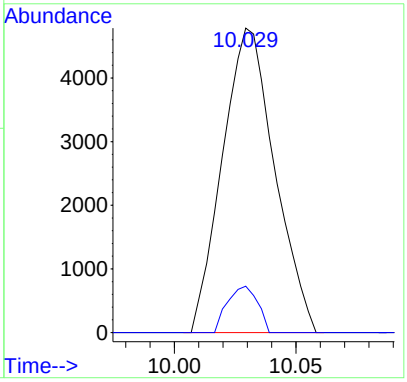


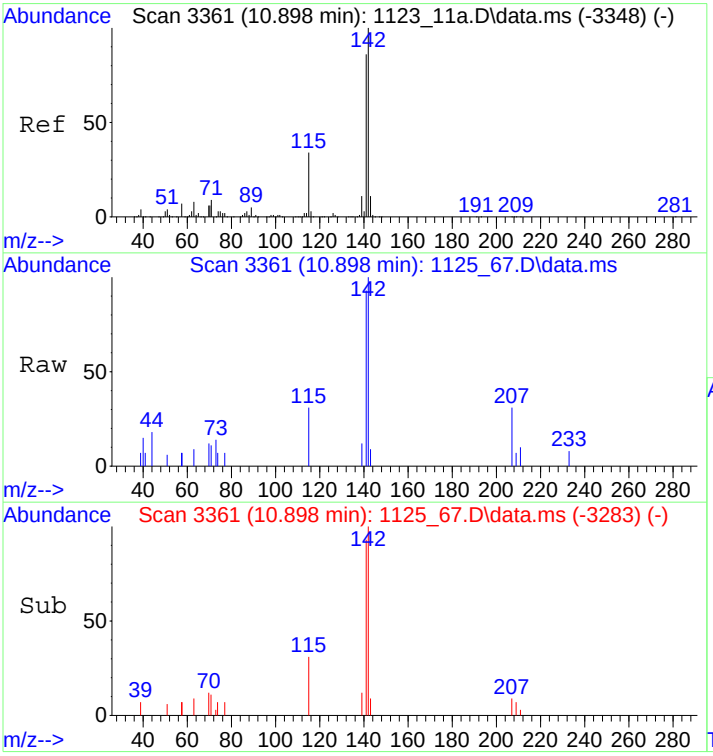


#92
Naphthalene
Concen: 0.3140224 ppb
RT: 10.029 min Scan# 3091
Delta R.T. -0.003 min
Lab File: 1125 67.D
Acq: 26 Nov 2014 12:19 am

Tgt Ion:128 Resp: 7158

Ion	Ratio	Lower	Upper
128	100		
129	8.8	8.7	13.1

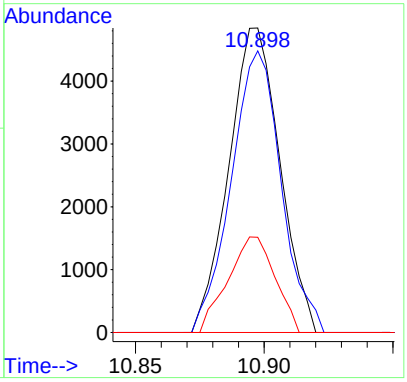


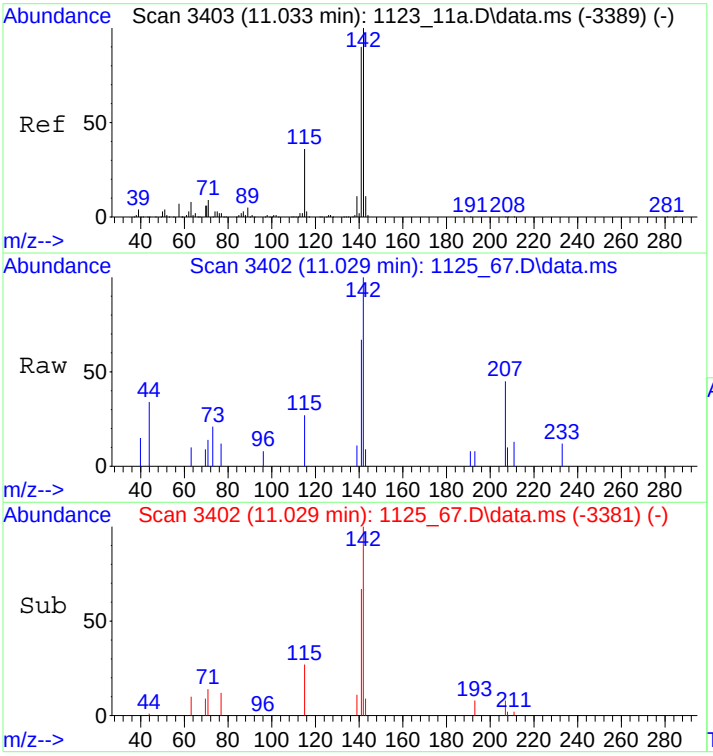


#94
1-Methylnaphthalene
Concen: 0.5691461 ppb
RT: 10.898 min Scan# 3361
Delta R.T. 0.001 min
Lab File: 1125_67.D
Acq: 26 Nov 2014 12:19 am

Tgt Ion:142 Resp: 6678

Ion	Ratio	Lower	Upper
142	100		
141	90.4	69.0	103.4
115	29.0	26.7	40.1

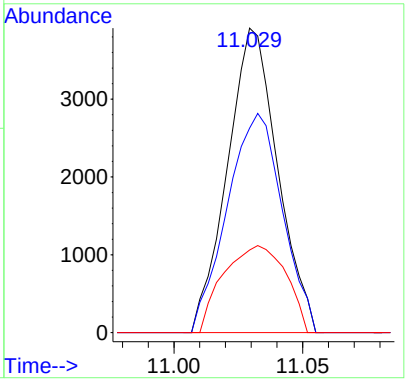




#95
2-Methylnaphthalene
Concen: 0.5113920 ppb
RT: 11.029 min Scan# 3402
Delta R.T. -0.003 min
Lab File: 1125 67.D
Acq: 26 Nov 2014 12:19 am

Tgt Ion:142 Resp: 5314

Ion	Ratio	Lower	Upper
142	100		
141	79.0	70.9	106.3
115	35.4	26.8	40.2



Quantitation Report (QT Reviewed)

Data Path : C:\MSDchem\1\data\112514\
Data File : 1125 70.D
Acq On : 26 Nov 2014 1:14 am
Operator : 644
Sample : L735181-01 1x WG756584 V8260 tb
Misc : water IS/SURR14K01013
ALS Vial : 70 Sample Multiplier: 1
InstName : VOCMS20

Quant Time: Nov 19 12:57:16 2015
Quant Method : C:\MSDchem\1\methods\V820K23N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS20
QLast Update : Mon Nov 24 14:32:41 2014
Response via : Initial Calibration

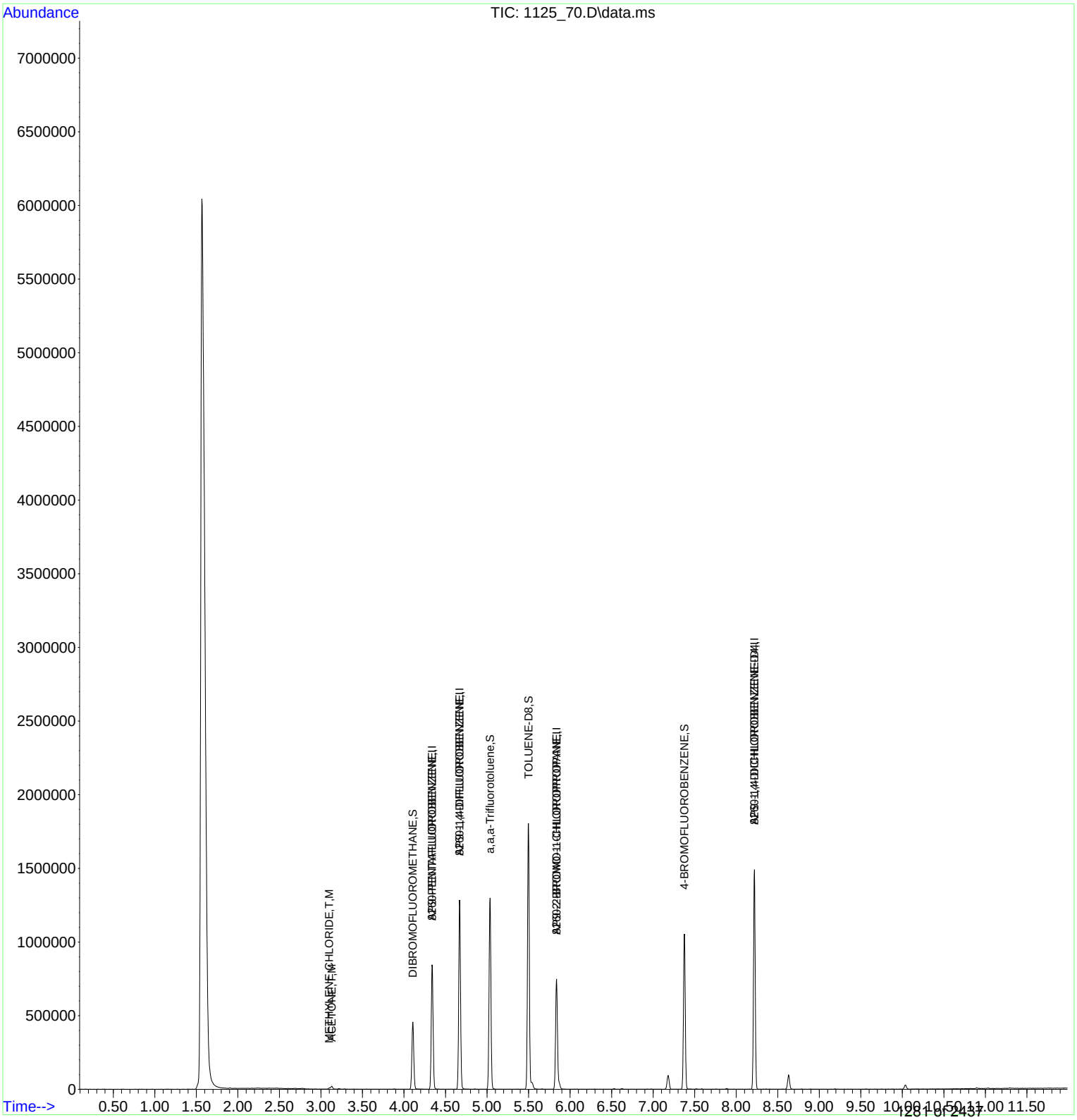
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 8260-PENTAFLUOROBENZENE	4.338	168	417995	40.0000000 ppb	0.00
41) 8260-1,4-DIFLUOROBENZENE	4.670	114	805111	40.0000000 ppb	0.00
53) 8260-2-BROMO-1-CHLOROP...	5.837	79	133744	40.0000000 ppb	0.00
84) 8260-1,4-DICHLOROBENZE...	8.219	152	328297	40.0000000 ppb	0.00
96) AP9-PENTAFLUOROBENZENE	4.338	168	417995	40.0000000 ppb	0.00
114) AP9-1,4-DIFLUOROBENZENE	4.670	114	805111	40.0000000 ppb	0.00
122) AP9-2-BROMO-1-CHLOROPR...	5.837	79	133744	40.0000000 ppb	# 0.00
128) AP9-1,4-DICHLOROBENZEN...	8.219	152	328297	40.0000000 ppb	0.00
System Monitoring Compounds					
33) DIBROMOFLUOROMETHANE	4.107	111	233949	40.8259231 ppb	0.00
Spiked Amount 40.000	Range 78 - 121		Recovery = 102.06%		
46) a,a,a-Trifluorotoluene	5.036	146	434374	42.6035418 ppb	0.00
Spiked Amount 40.000	Range 85 - 114		Recovery = 106.51%		
50) TOLUENE-D8	5.499	98	1011690	39.6519718 ppb	0.00
Spiked Amount 40.000	Range 89 - 111		Recovery = 99.13%		
68) 4-BROMOFLUOROBENZENE	7.377	95	344137	39.2393236 ppb	0.00
Spiked Amount 40.000	Range 71 - 126		Recovery = 98.10%		
Target Compounds					Qvalue
16) ACETONE	3.129	43	20805	9.7300385 ppb	95
19) METHYLENE CHLORIDE	3.100	84	2861	0.3159221 ppb	92

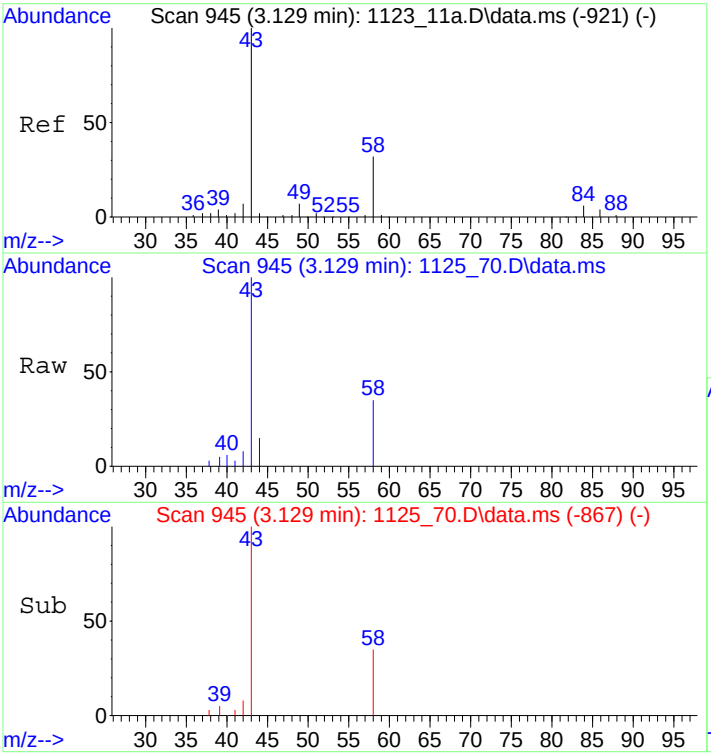
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\MSDchem\1\data\112514\
Data File : 1125 70.D
Acq On : 26 Nov 2014 1:14 am
Operator : 644
Sample : L735181-01 1x WG756584 V8260 tb
Misc : water IS/SURR14K01013
ALS Vial : 70 Sample Multiplier: 1
InstName : VOCMS20

Quant Time: Nov 19 12:57:16 2015
Quant Method : C:\MSDchem\1\methods\V820K23N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS20
QLast Update : Mon Nov 24 14:32:41 2014
Response via : Initial Calibration

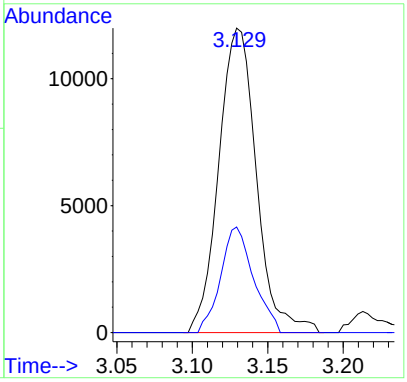


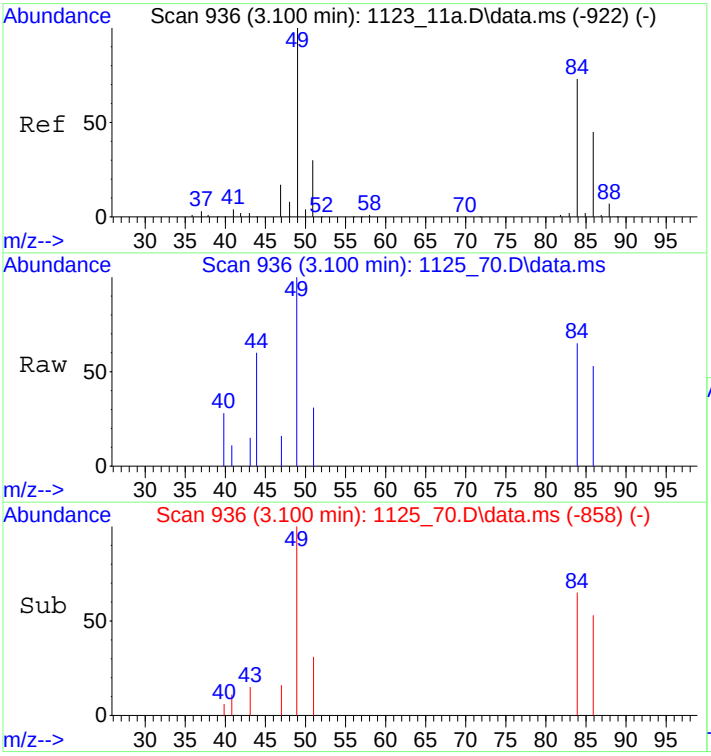


#16
ACETONE
Concen: 9.7300385 ppb
RT: 3.129 min Scan# 945
Delta R.T. 0.000 min
Lab File: 1125 70.D
Acq: 26 Nov 2014 1:14 am

Tgt Ion: 43 Resp: 20805

Ion	Ratio	Lower	Upper
43	100		
58	30.2	26.3	39.5

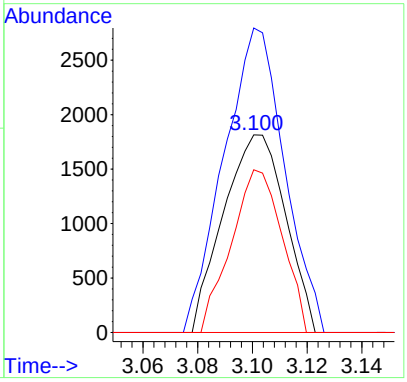




#19
METHYLENE CHLORIDE
Concen: 0.3159221 ppb
RT: 3.100 min Scan# 936
Delta R.T. -0.000 min
Lab File: 1125_70.D
Acq: 26 Nov 2014 1:14 am

Tgt Ion: 84 Resp: 2861

Ion	Ratio	Lower	Upper
84	100		
49	150.4	111.3	166.9
86	67.5	51.7	77.5



Quantitation Report (QT Reviewed)

Data Path : C:\MSDchem\1\data\112514\
Data File : 1125 81.D
Acq On : 26 Nov 2014 4:34 am
Operator : 644
Sample : L735181-02 1x WG756584 V8260
Misc : water IS/SURR14K01013
ALS Vial : 81 Sample Multiplier: 1
InstName : VOCMS20

Quant Time: Nov 19 13:00:12 2015
Quant Method : C:\MSDchem\1\methods\V820K23N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS20
QLast Update : Mon Nov 24 14:32:41 2014
Response via : Initial Calibration

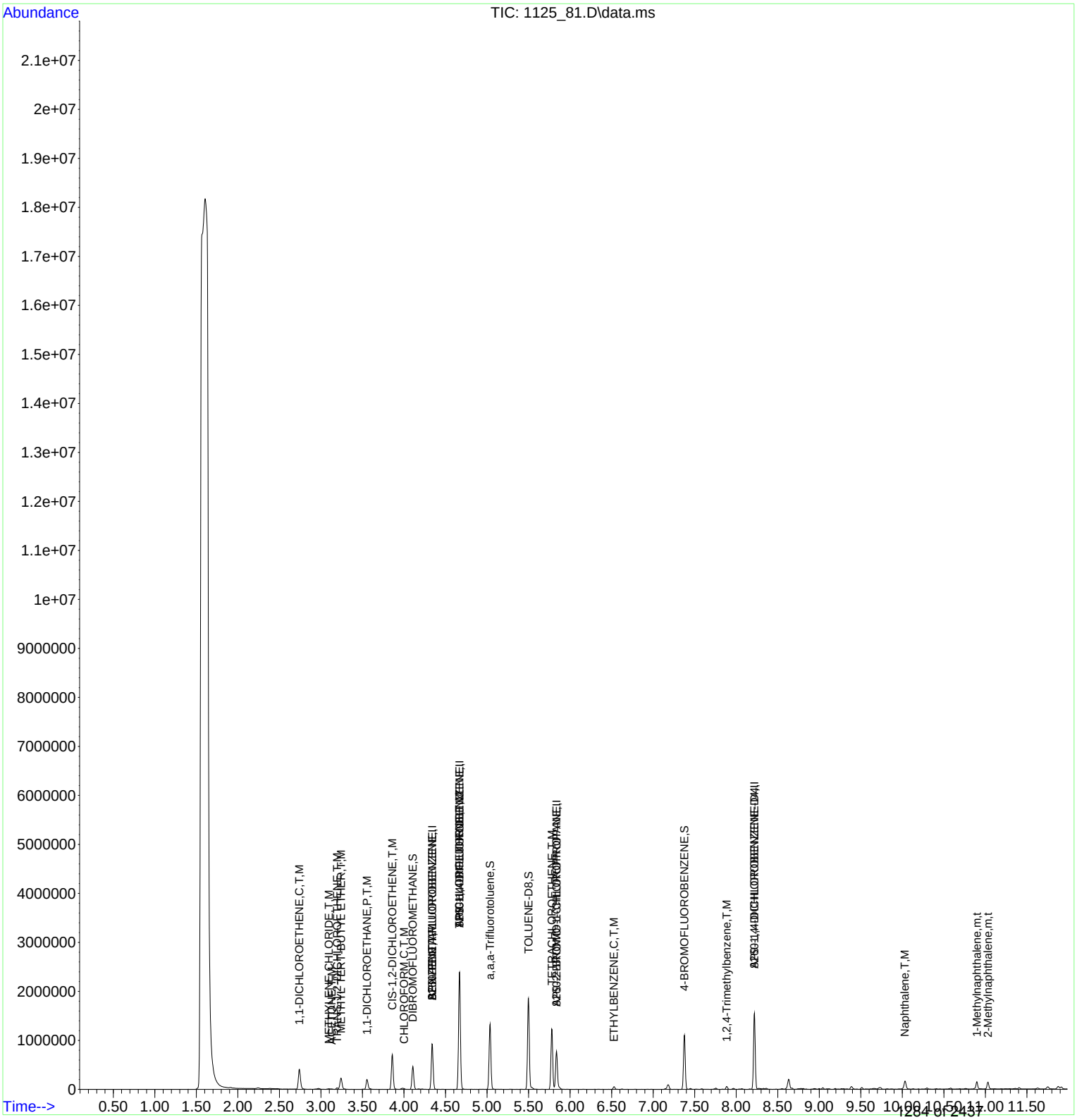
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 8260-PENTAFLUOROBENZENE	4.341	168	439956	40.0000000	ppb		0.00
41) 8260-1,4-DIFLUOROBENZENE	4.669	114	837143	40.0000000	ppb		0.00
53) 8260-2-BROMO-1-CHLOROP...	5.837	79	138107	40.0000000	ppb		0.00
84) 8260-1,4-DICHLOROBENZE...	8.219	152	342360	40.0000000	ppb		0.00
96) AP9-PENTAFLUOROBENZENE	4.341	168	439956	40.0000000	ppb		0.00
114) AP9-1,4-DIFLUOROBENZENE	4.669	114	837143	40.0000000	ppb		0.00
122) AP9-2-BROMO-1-CHLOROPR...	5.837	79	138107	40.0000000	ppb	#	0.00
128) AP9-1,4-DICHLOROBENZEN...	8.219	152	342360	40.0000000	ppb		0.00
System Monitoring Compounds							
33) DIBROMOFLUOROMETHANE	4.107	111	236682	39.2411650	ppb		0.00
Spiked Amount 40.000	Range 78 - 121		Recovery = 98.10%				
46) a,a,a-Trifluorotoluene	5.036	146	445088	41.9840063	ppb		0.00
Spiked Amount 40.000	Range 85 - 114		Recovery = 104.96%				
50) TOLUENE-D8	5.499	98	1042712	39.3040961	ppb		0.00
Spiked Amount 40.000	Range 89 - 111		Recovery = 98.26%				
68) 4-BROMOFLUOROBENZENE	7.377	95	355026	39.2020627	ppb		0.00
Spiked Amount 40.000	Range 71 - 126		Recovery = 98.01%				
Target Compounds							Qvalue
14) 1,1-DICHLOROETHENE	2.740	61	252664	21.8389901	ppb		95
16) ACETONE	3.129	43	8323	3.6981845	ppb		97
19) METHYLENE CHLORIDE	3.097	84	2960	0.3105386	ppb		95
22) TRANS-1,2-DICHLOROETHENE	3.194	96	9585	1.1308236	ppb		97
23) METHYL TERT-BUTYL ETHER	3.242	73	193303	8.3250039	ppb	#	100
24) 1,1-DICHLOROETHANE	3.554	63	168643	10.1860044	ppb		100
28) CIS-1,2-DICHLOROETHENE	3.859	96	251413	27.0213491	ppb		99
32) CHLOROFORM	4.001	83	7424	0.4951060	ppb	#	96
39) BENZENE	4.341	78	33125	0.8692685	ppb	#	75
42) TRICHLOROETHENE	4.666	130	302040	38.9039122	ppb		99
55) TETRACHLOROETHENE	5.782	164	242652	46.9475807	ppb		99
62) ETHYLBENZENE	6.528	106	10491	0.9017578	ppb		90
79) 1,2,4-Trimethylbenzene	7.885	105	30257	0.9513095	ppb		97
92) Naphthalene	10.029	128	71932	3.1147965	ppb		100
94) 1-Methylnaphthalene	10.898	142	60783	5.1132621	ppb		97
95) 2-Methylnaphthalene	11.029	142	58326	5.5402989	ppb		97

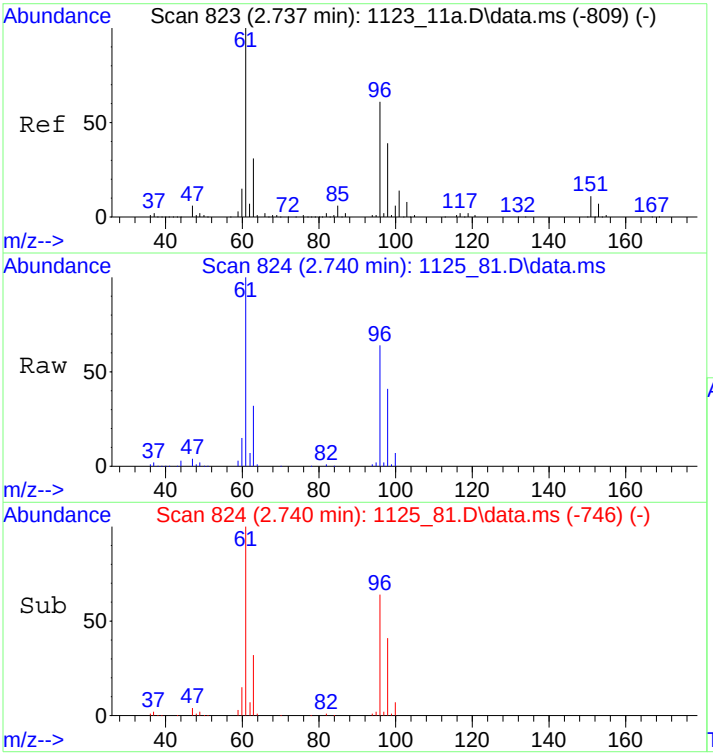
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\MSDchem\1\data\112514\
Data File : 1125 81.D
Acq On : 26 Nov 2014 4:34 am
Operator : 644
Sample : L735181-02 1x WG756584 V8260
Misc : water IS/SURR14K01013
ALS Vial : 81 Sample Multiplier: 1
InstName : VOCMS20

Quant Time: Nov 19 13:00:12 2015
Quant Method : C:\MSDchem\1\methods\V820K23N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS20
QLast Update : Mon Nov 24 14:32:41 2014
Response via : Initial Calibration

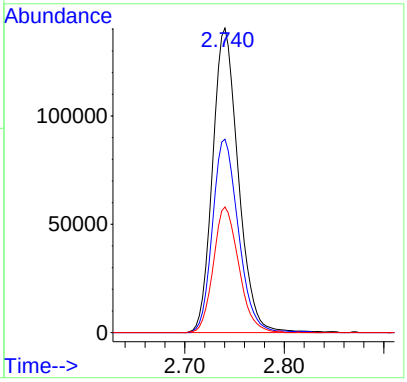


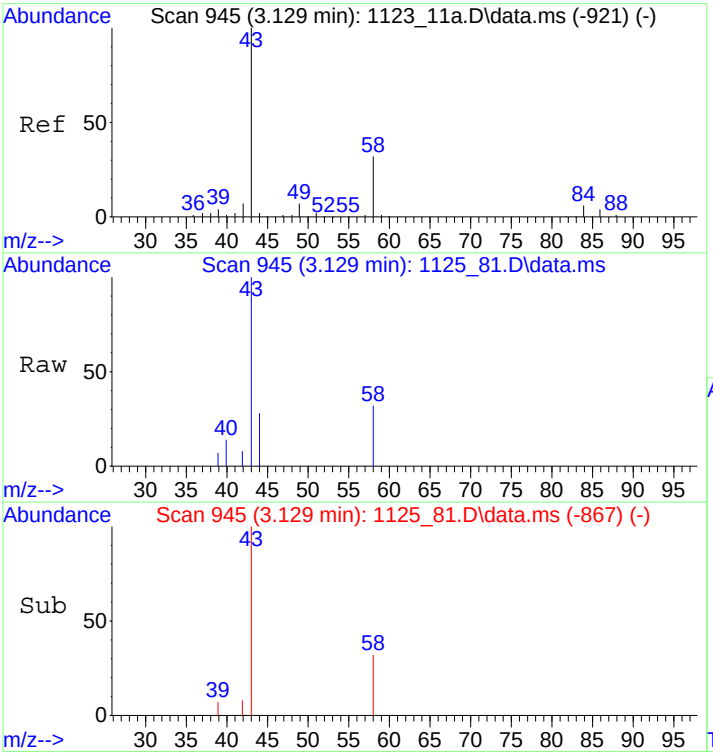


#14
1,1-DICHLOROETHENE
Concen: 21.8389901 ppb
RT: 2.740 min Scan# 824
Delta R.T. -0.000 min
Lab File: 1125 81.D
Acq: 26 Nov 2014 4:34 am

Tgt Ion: 61 Resp: 252664

Ion	Ratio	Lower	Upper
61	100		
96	64.0	47.8	71.8
98	40.8	30.6	45.8

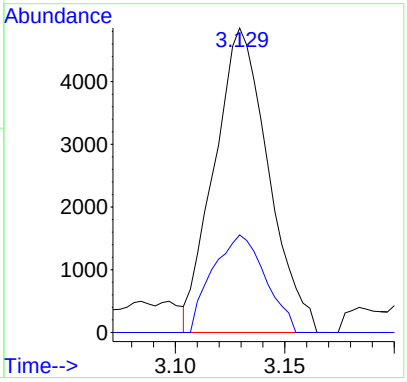


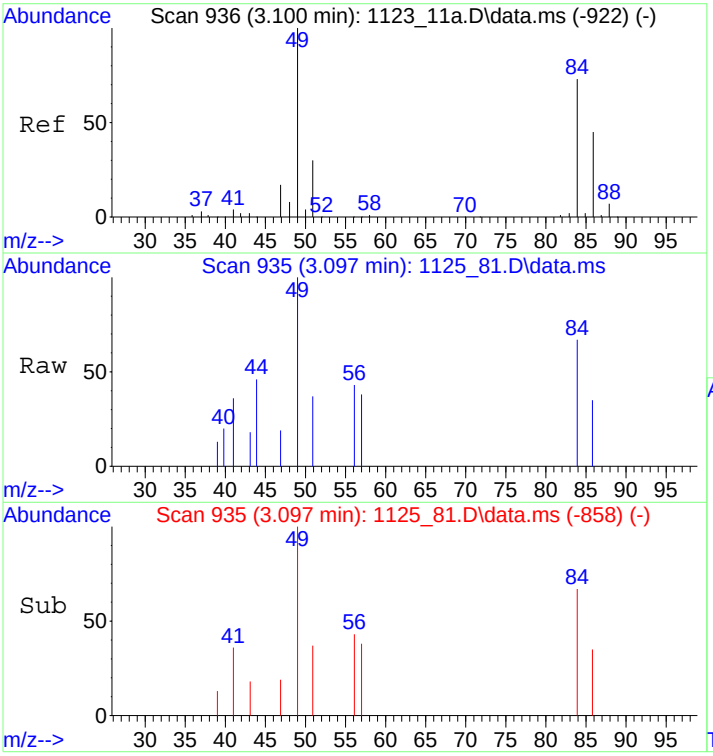


#16
ACETONE
Concen: 3.6981845 ppb
RT: 3.129 min Scan# 945
Delta R.T. 0.000 min
Lab File: 1125_81.D
Acq: 26 Nov 2014 4:34 am

Tgt Ion: 43 Resp: 8323

Ion	Ratio	Lower	Upper
43	100		
58	31.4	26.3	39.5

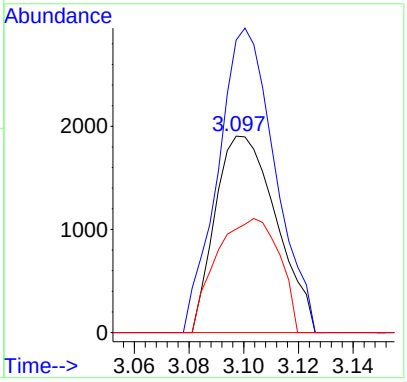


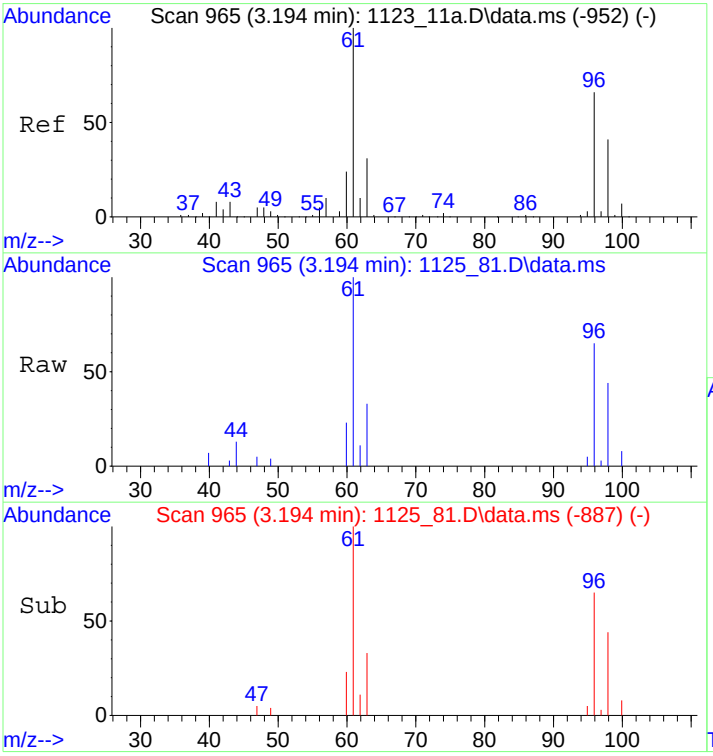


#19
METHYLENE CHLORIDE
Concen: 0.3105386 ppb
RT: 3.097 min Scan# 935
Delta R.T. -0.003 min
Lab File: 1125 81.D
Acq: 26 Nov 2014 4:34 am

Tgt Ion: 84 Resp: 2960

Ion	Ratio	Lower	Upper
84	100		
49	144.6	111.3	166.9
86	59.6	51.7	77.5

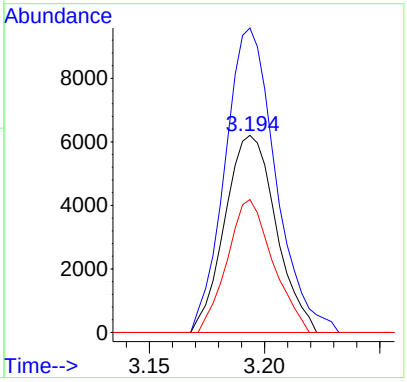


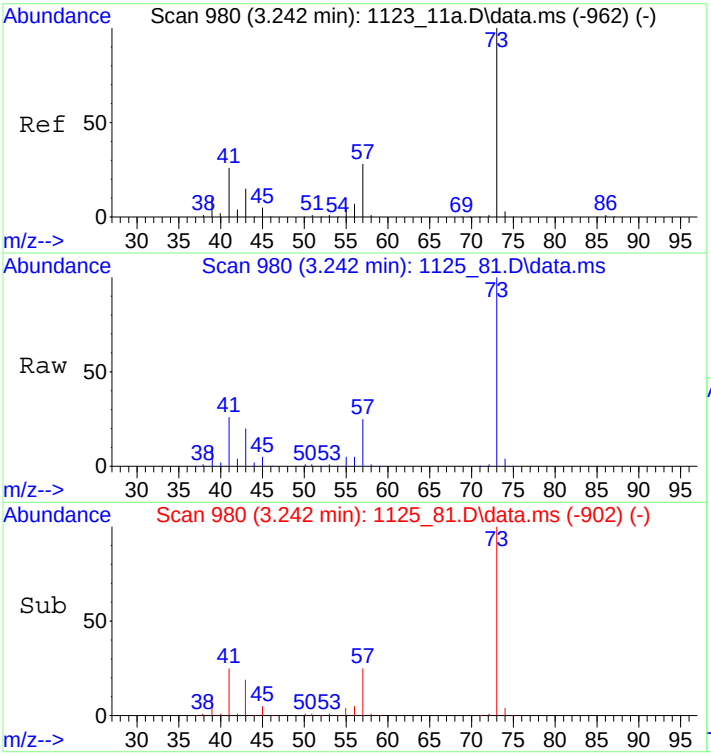


#22
TRANS-1,2-DICHLOROETHENE
Concen: 1.1308236 ppb
RT: 3.194 min Scan# 965
Delta R.T. -0.000 min
Lab File: 1125_81.D
Acq: 26 Nov 2014 4:34 am

Tgt Ion: 96 Resp: 9585

Ion	Ratio	Lower	Upper
96	100		
61	153.2	124.0	186.0
98	60.0	51.3	76.9

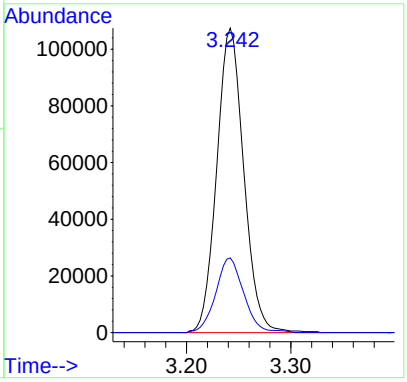


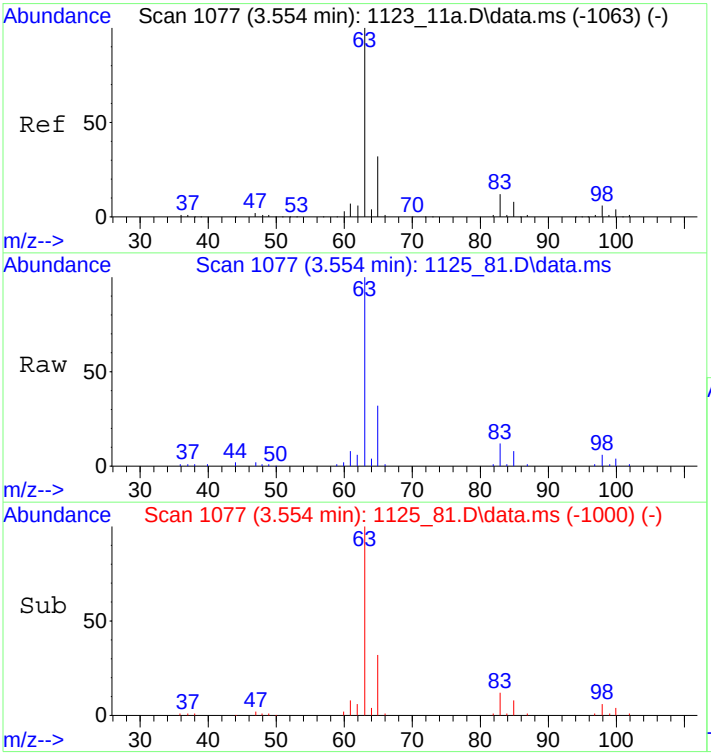


#23
METHYL TERT-BUTYL ETHER
Concen: 8.3250039 ppb
RT: 3.242 min Scan# 980
Delta R.T. -0.000 min
Lab File: 1125 81.D
Acq: 26 Nov 2014 4:34 am

Tgt Ion: 73 Resp: 193303

Ion	Ratio	Lower	Upper
73	100		
57	25.5	0.0	0.0#

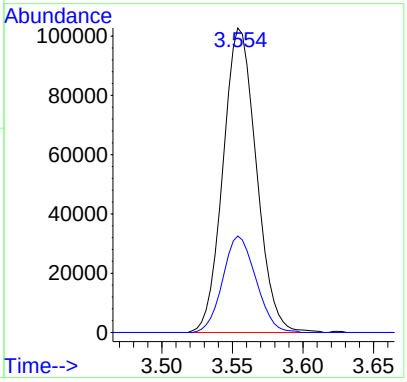


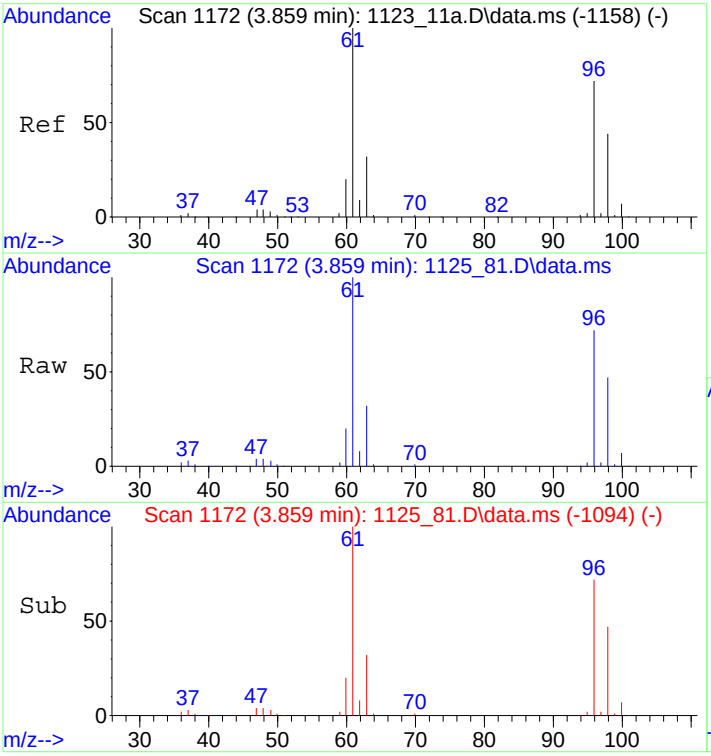


#24
1,1-DICHLOROETHANE
Concen: 10.1860044 ppb
RT: 3.554 min Scan# 1077
Delta R.T. -0.003 min
Lab File: 1125_81.D
Acq: 26 Nov 2014 4:34 am

Tgt Ion: 63 Resp: 168643

Ion	Ratio	Lower	Upper
63	100		
65	31.5	25.0	37.6

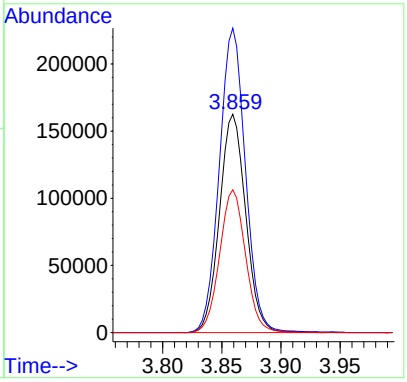


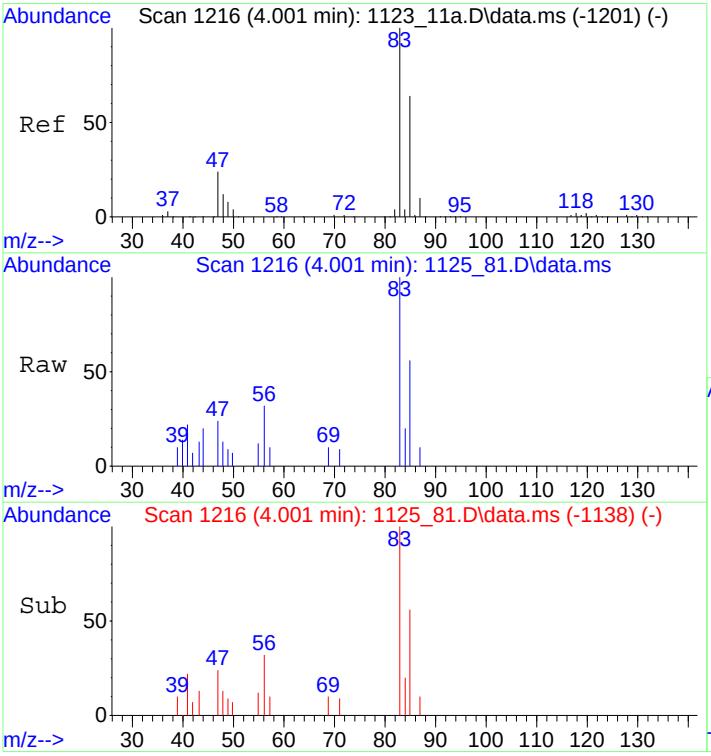


#28
CIS-1,2-DICHLOROETHENE
Concen: 27.0213491 ppb
RT: 3.859 min Scan# 1172
Delta R.T. -0.000 min
Lab File: 1125 81.D
Acq: 26 Nov 2014 4:34 am

Tgt Ion: 96 Resp: 251413

Ion	Ratio	Lower	Upper
96	100		
61	138.4	110.4	165.6
98	64.6	50.2	75.2

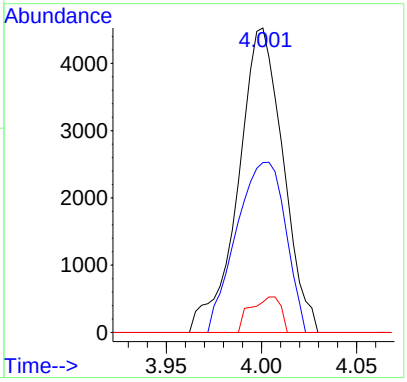


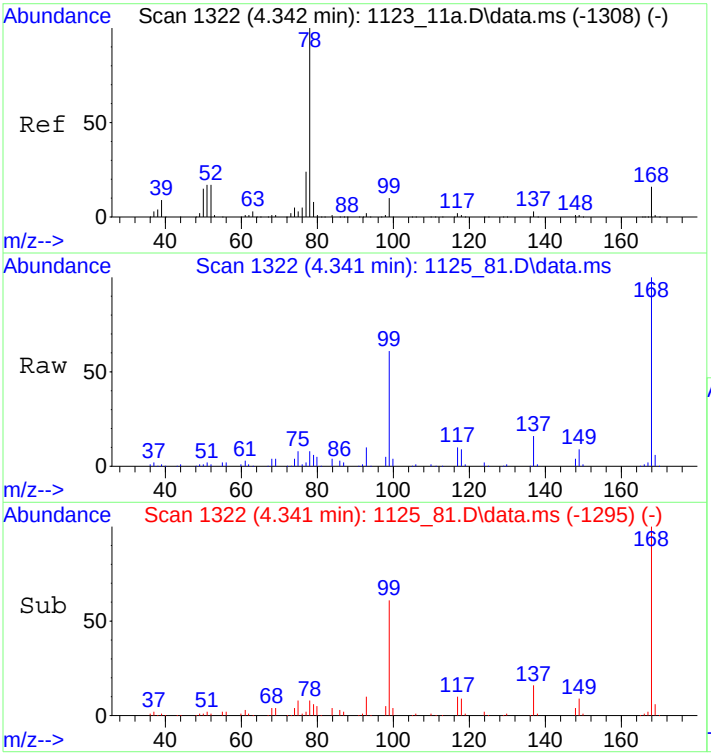


#32
CHLOROFORM
Concen: 0.4951060 ppb
RT: 4.001 min Scan# 1216
Delta R.T. -0.000 min
Lab File: 1125_81.D
Acq: 26 Nov 2014 4:34 am

Tgt Ion: 83 Resp: 7424

Ion	Ratio	Lower	Upper
83	100		
85	61.2	50.9	76.3
87	7.9	8.2	12.4#

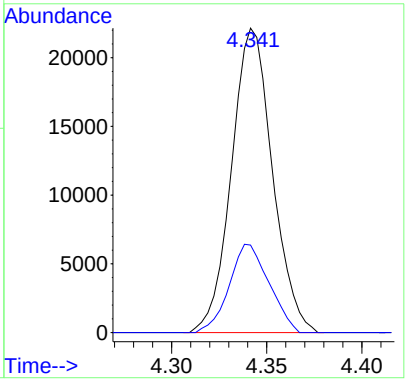


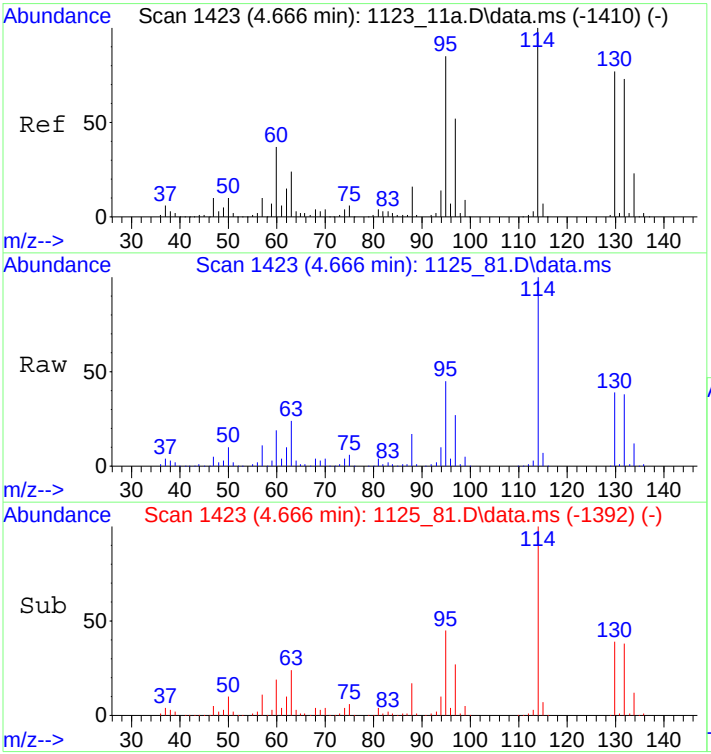


#39
BENZENE
Concen: 0.8692685 ppb
RT: 4.341 min Scan# 1322
Delta R.T. -0.003 min
Lab File: 1125 81.D
Acq: 26 Nov 2014 4:34 am

Tgt Ion: 78 Resp: 33125

Ion	Ratio	Lower	Upper
78	100		
51	28.2	13.8	20.8#

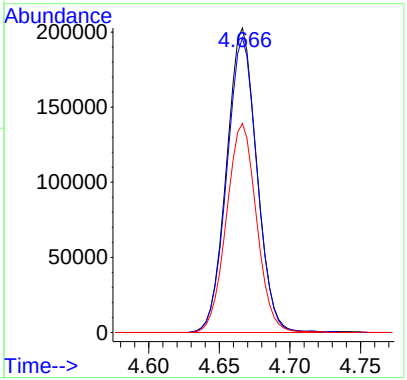


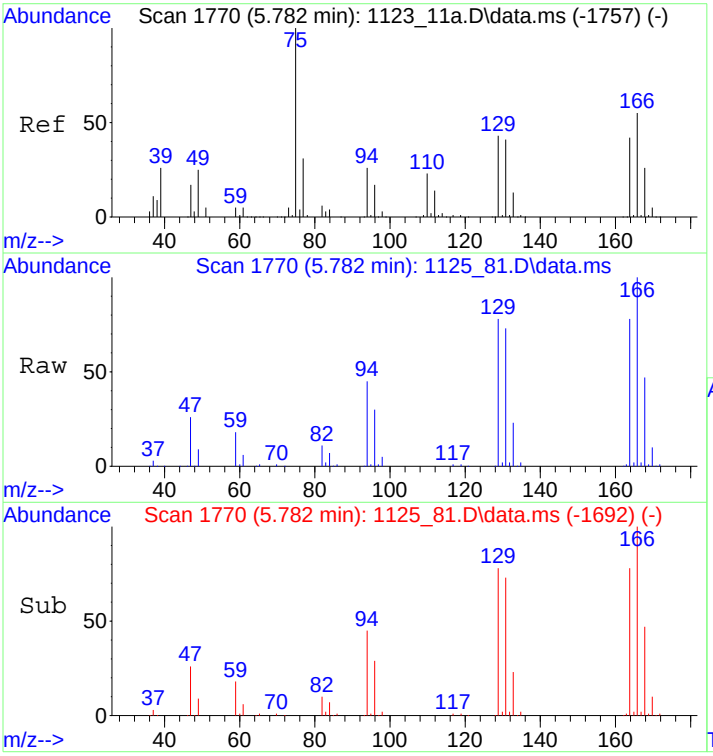


#42
TRICHLOROETHENE
Concen: 38.9039122 ppb
RT: 4.666 min Scan# 1423
Delta R.T. -0.000 min
Lab File: 1125_81.D
Acq: 26 Nov 2014 4:34 am

Tgt Ion:130 Resp: 302040

Ion	Ratio	Lower	Upper
130	100		
132	96.6	76.3	114.5
97	68.4	54.0	81.0

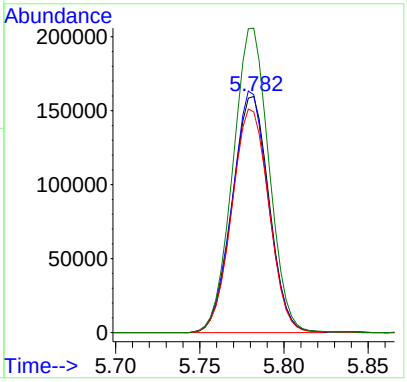


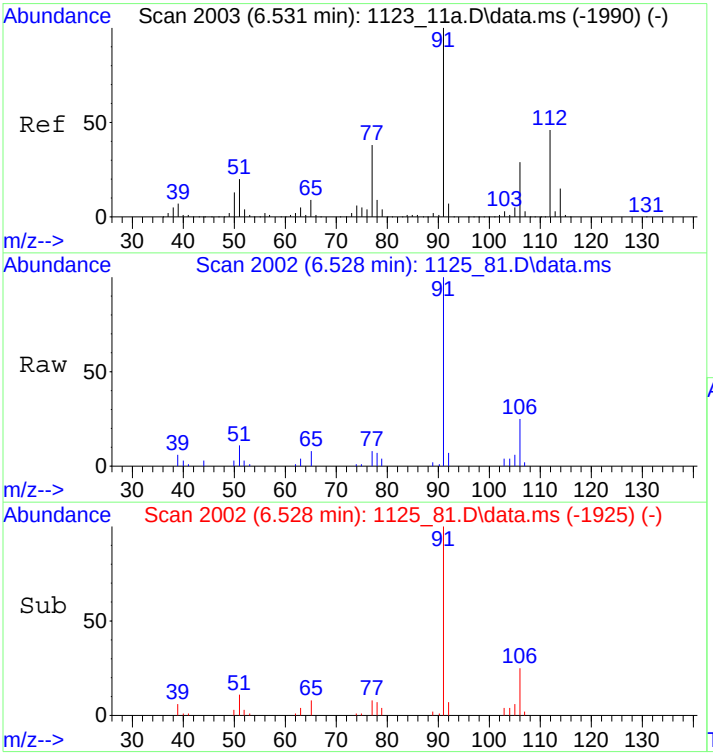


#55
TETRACHLOROETHENE
Concen: 46.9475807 ppb
RT: 5.782 min Scan# 1770
Delta R.T. -0.000 min
Lab File: 1125 81.D
Acq: 26 Nov 2014 4:34 am

Tgt Ion:164 Resp: 242652

Ion	Ratio	Lower	Upper
164	100		
129	100.7	80.4	120.6
131	95.4	76.9	115.3
166	127.1	100.2	150.2

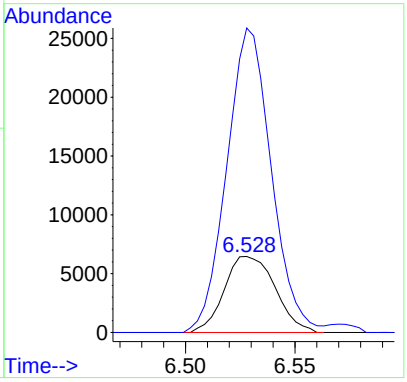


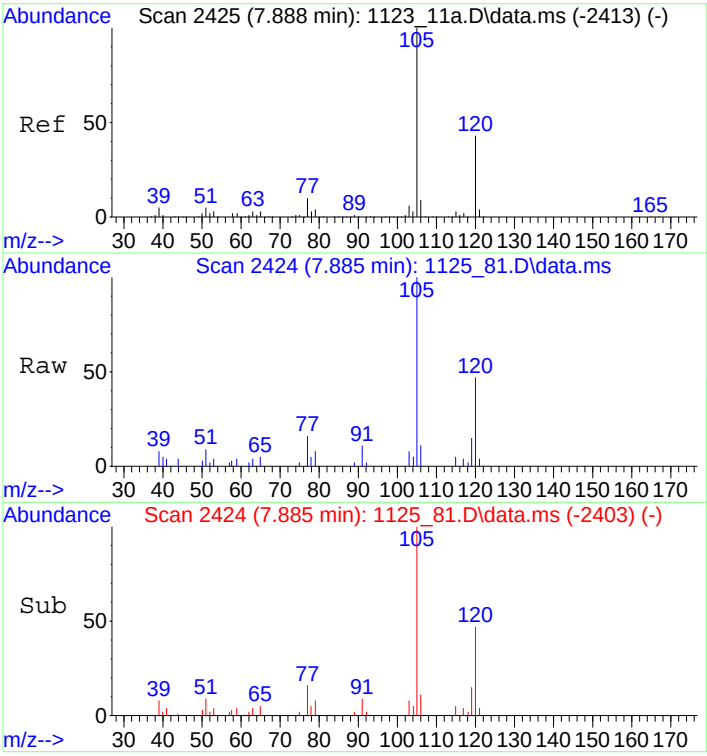


#62
ETHYLBENZENE
Concen: 0.9017578 ppb
RT: 6.528 min Scan# 2002
Delta R.T. -0.003 min
Lab File: 1125_81.D
Acq: 26 Nov 2014 4:34 am

Tgt Ion:106 Resp: 10491

Ion	Ratio	Lower	Upper
106	100		
91	350.3	264.2	396.2

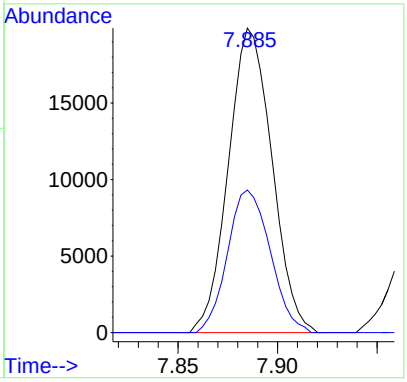


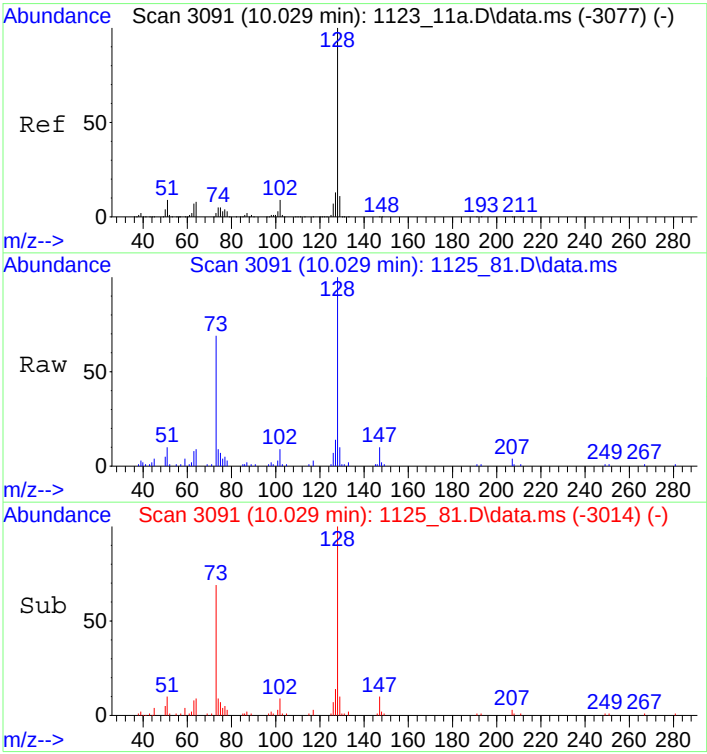


#79
1,2,4-Trimethylbenzene
Concen: 0.9513095 ppb
RT: 7.885 min Scan# 2424
Delta R.T. -0.003 min
Lab File: 1125 81.D
Acq: 26 Nov 2014 4:34 am

Tgt Ion:105 Resp: 30257

Ion	Ratio	Lower	Upper
105	100		
120	45.9	35.4	53.2

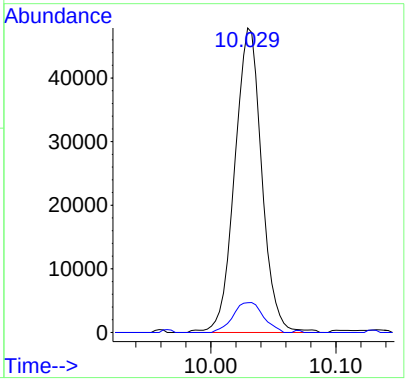


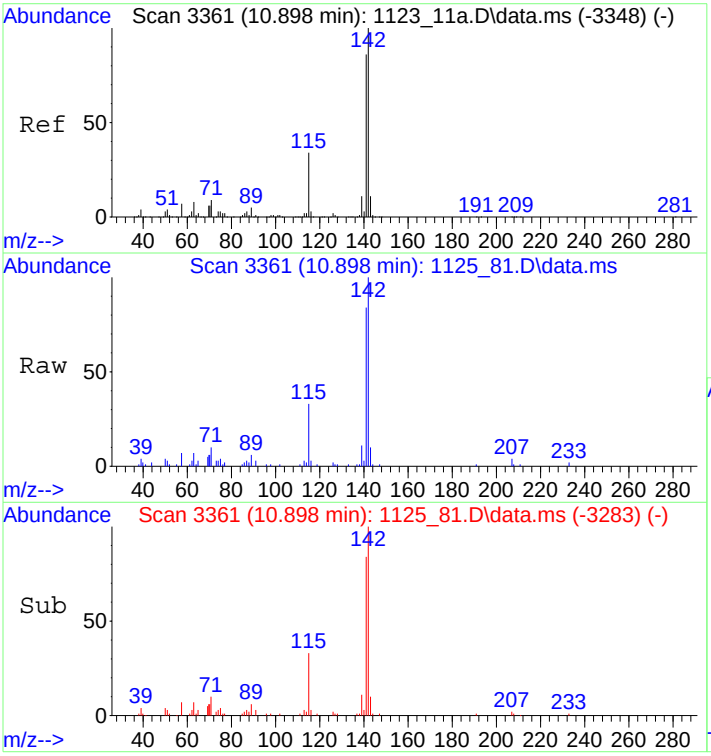


#92
Naphthalene
Concen: 3.1147965 ppb
RT: 10.029 min Scan# 3091
Delta R.T. -0.003 min
Lab File: 1125_81.D
Acq: 26 Nov 2014 4:34 am

Tgt Ion:128 Resp: 71932

Ion	Ratio	Lower	Upper
128	100		
129	11.1	8.7	13.1

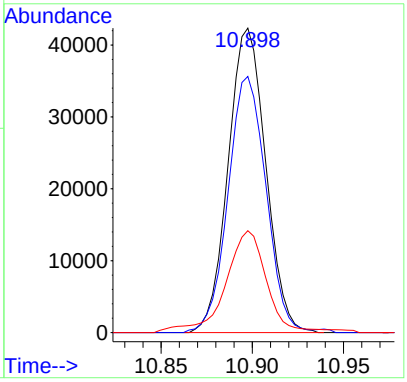


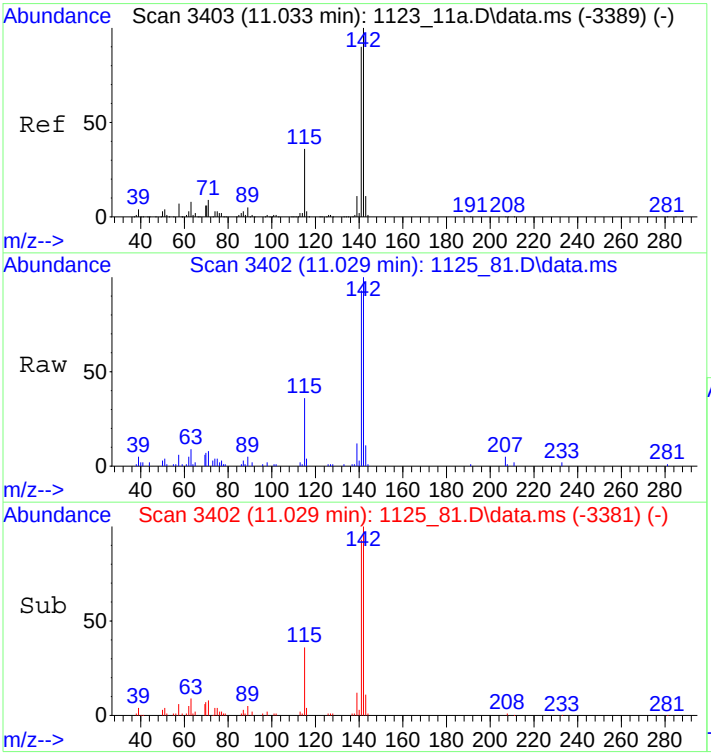


#94
1-Methylnaphthalene
Concen: 5.1132621 ppb
RT: 10.898 min Scan# 3361
Delta R.T. 0.001 min
Lab File: 1125 81.D
Acq: 26 Nov 2014 4:34 am

Tgt Ion:142 Resp: 60783

Ion	Ratio	Lower	Upper
142	100		
141	84.8	69.0	103.4
115	36.8	26.7	40.1

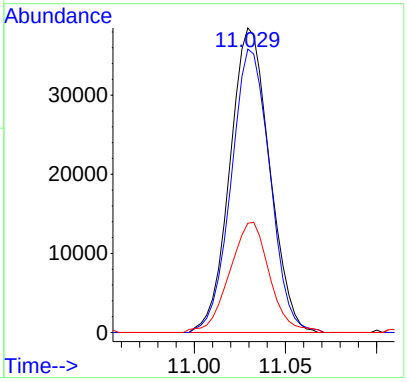




#95
2-Methylnaphthalene
Concen: 5.5402989 ppb
RT: 11.029 min Scan# 3402
Delta R.T. -0.003 min
Lab File: 1125_81.D
Acq: 26 Nov 2014 4:34 am

Tgt Ion:142 Resp: 58326

Ion	Ratio	Lower	Upper
142	100		
141	91.0	70.9	106.3
115	36.5	26.8	40.2



Quantitation Report (QT Reviewed)

Data Path : C:\MSDchem\1\data\112514\
Data File : 1125 82.D
Acq On : 26 Nov 2014 4:53 am
Operator : 644
Sample : L735181-05 1x WG756584 V8260
Misc : water IS/SURR14K01013
ALS Vial : 82 Sample Multiplier: 1
InstName : VOCMS20

Quant Time: Nov 19 13:01:25 2015
Quant Method : C:\MSDchem\1\methods\V820K23N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS20
QLast Update : Mon Nov 24 14:32:41 2014
Response via : Initial Calibration

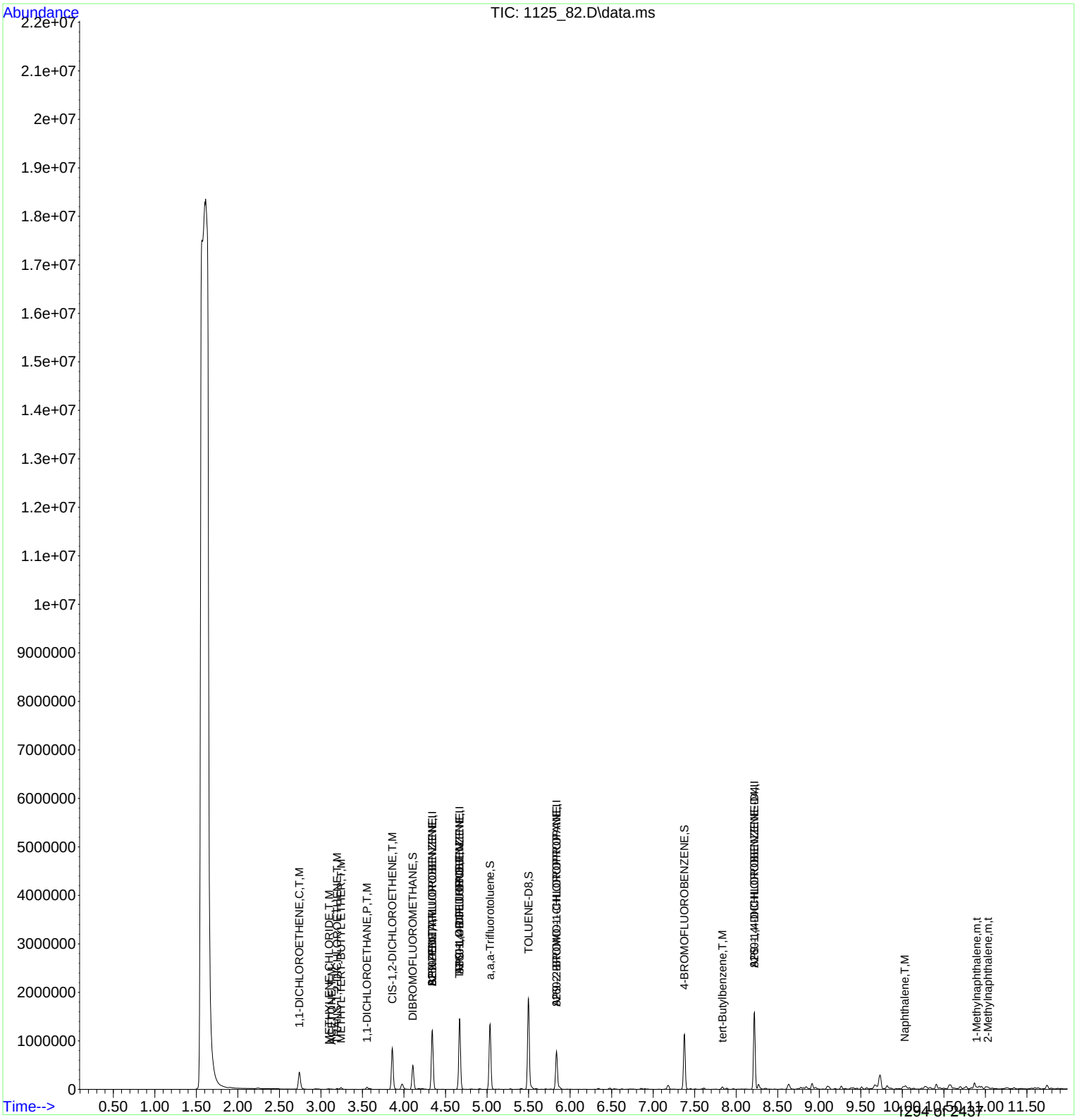
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 8260-PENTAFLUOROBENZENE	4.341	168	444433	40.0000000	ppb		0.00
41) 8260-1,4-DIFLUOROBENZENE	4.669	114	837014	40.0000000	ppb		0.00
53) 8260-2-BROMO-1-CHLOROP...	5.837	79	139423	40.0000000	ppb		0.00
84) 8260-1,4-DICHLOROBENZE...	8.219	152	361241	40.0000000	ppb		0.00
96) AP9-PENTAFLUOROBENZENE	4.341	168	444433	40.0000000	ppb		0.00
114) AP9-1,4-DIFLUOROBENZENE	4.669	114	837014	40.0000000	ppb		0.00
122) AP9-2-BROMO-1-CHLOROPR...	5.837	79	139423	40.0000000	ppb	#	0.00
128) AP9-1,4-DICHLOROBENZEN...	8.219	152	361241	40.0000000	ppb		0.00
System Monitoring Compounds							
33) DIBROMOFLUOROMETHANE	4.107	111	242253	39.7602194	ppb		0.00
Spiked Amount 40.000	Range 78 - 121		Recovery = 99.40%				
46) a,a,a-Trifluorotoluene	5.036	146	447926	42.2582193	ppb		0.00
Spiked Amount 40.000	Range 85 - 114		Recovery = 105.65%				
50) TOLUENE-D8	5.499	98	1056656	39.8358413	ppb		0.00
Spiked Amount 40.000	Range 89 - 111		Recovery = 99.59%				
68) 4-BROMOFLUOROBENZENE	7.377	95	364721	39.8924581	ppb		0.00
Spiked Amount 40.000	Range 71 - 126		Recovery = 99.73%				
Target Compounds							Qvalue
14) 1,1-DICHLOROETHENE	2.740	61	216579	18.5314104	ppb		94
16) ACETONE	3.129	43	7589	3.3380757	ppb		97
19) METHYLENE CHLORIDE	3.100	84	3480	0.3614150	ppb		86
22) TRANS-1,2-DICHLOROETHENE	3.197	96	4954	0.5785777	ppb		97
23) METHYL TERT-BUTYL ETHER	3.242	73	28453	1.2130449	ppb	#	100
24) 1,1-DICHLOROETHANE	3.554	63	37627	2.2497698	ppb		100
28) CIS-1,2-DICHLOROETHENE	3.859	96	301130	32.0388020	ppb		99
39) BENZENE	4.341	78	243066	6.3143003	ppb		97
42) TRICHLOROETHENE	4.666	130	30330	3.9072226	ppb		97
78) tert-Butylbenzene	7.833	119	17236	0.6920026	ppb		94
92) Naphthalene	10.029	128	19759	0.8108835	ppb	#	85
94) 1-Methylnaphthalene	10.894	142	15589	1.2428541	ppb	#	78
95) 2-Methylnaphthalene	11.029	142	13373	1.2038873	ppb		94

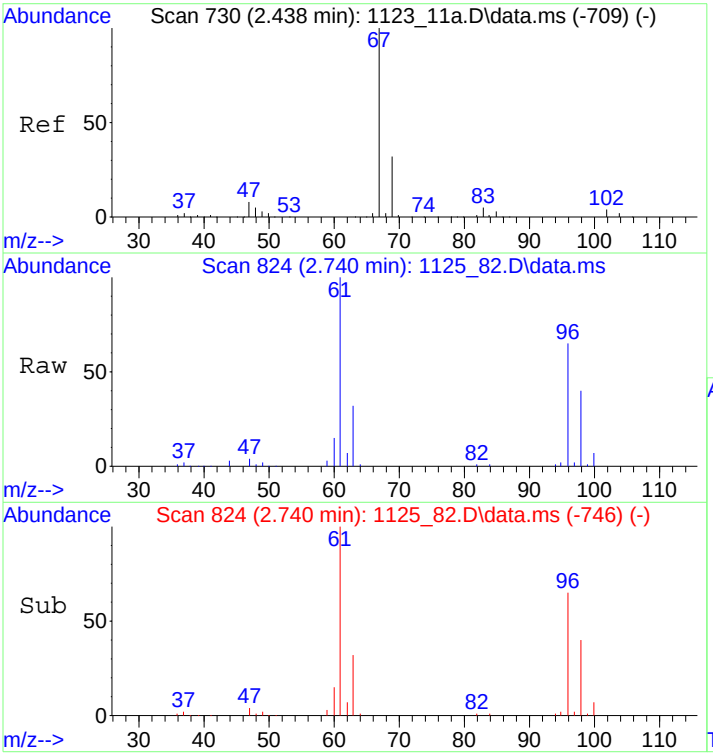
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\MSDchem\1\data\112514\
Data File : 1125 82.D
Acq On : 26 Nov 2014 4:53 am
Operator : 644
Sample : L735181-05 1x WG756584 V8260
Misc : water IS/SURR14K01013
ALS Vial : 82 Sample Multiplier: 1
InstName : VOCMS20

Quant Time: Nov 19 13:01:25 2015
Quant Method : C:\MSDchem\1\methods\V820K23N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS20
QLast Update : Mon Nov 24 14:32:41 2014
Response via : Initial Calibration

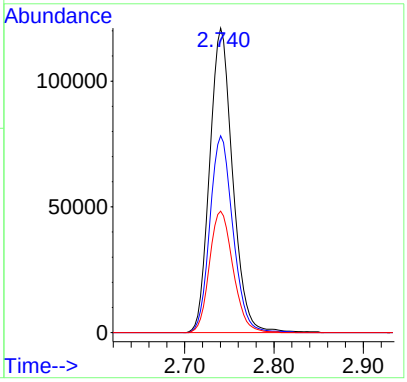


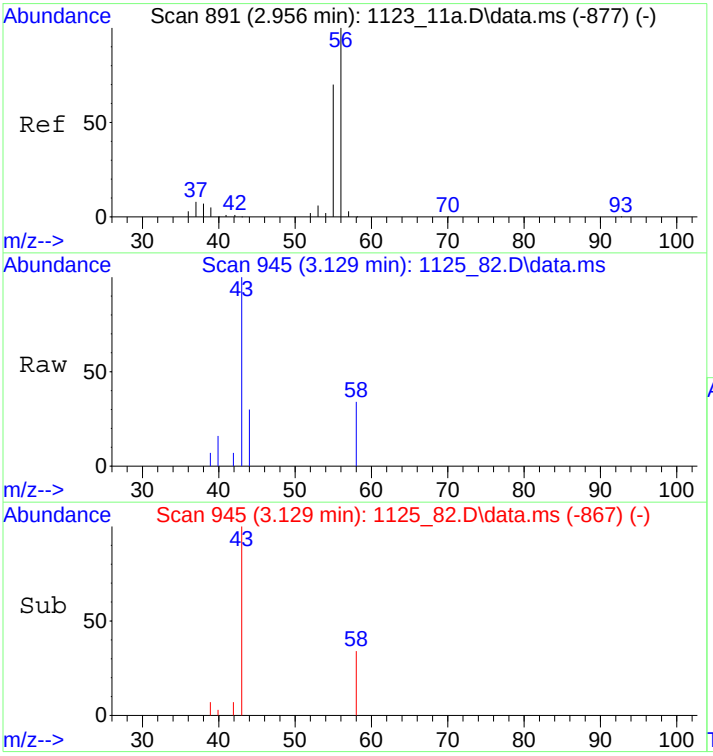


#14
1,1-DICHLOROETHENE
Concen: 18.5314104 ppb
RT: 2.740 min Scan# 824
Delta R.T. -0.000 min
Lab File: 1125 82.D
Acq: 26 Nov 2014 4:53 am

Tgt Ion: 61 Resp: 216579

Ion	Ratio	Lower	Upper
61	100		
96	64.9	47.8	71.8
98	40.9	30.6	45.8

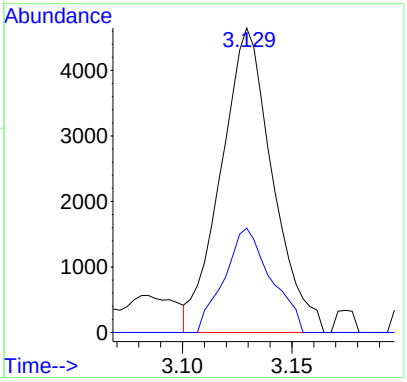


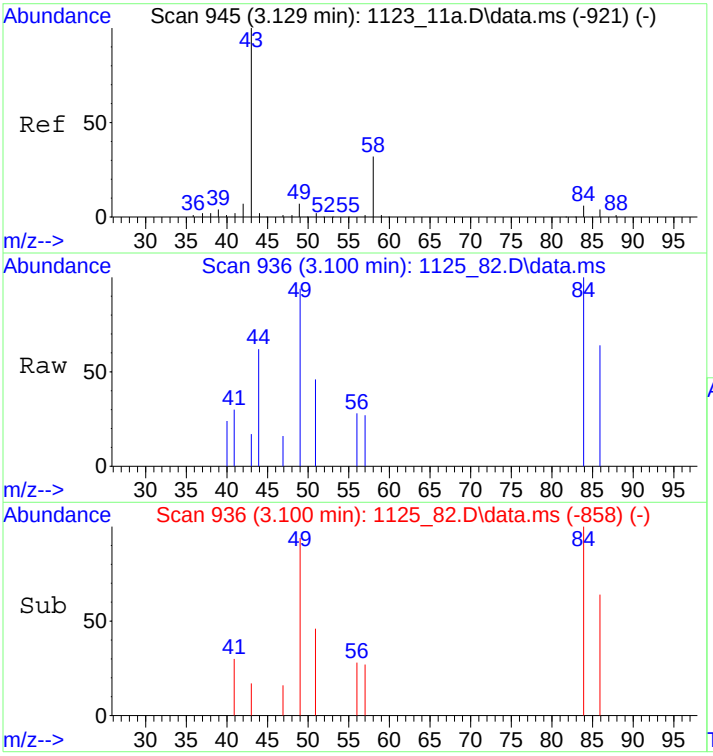


#16
ACETONE
Concen: 3.3380757 ppb
RT: 3.129 min Scan# 945
Delta R.T. 0.000 min
Lab File: 1125_82.D
Acq: 26 Nov 2014 4:53 am

Tgt Ion: 43 Resp: 7589

Ion	Ratio	Lower	Upper
43	100		
58	31.1	26.3	39.5

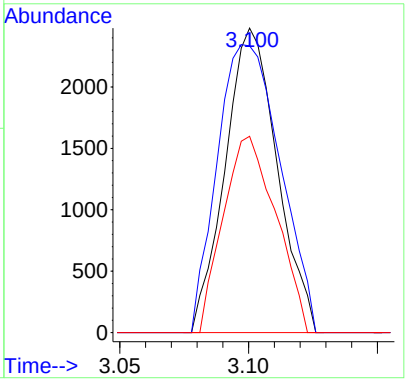


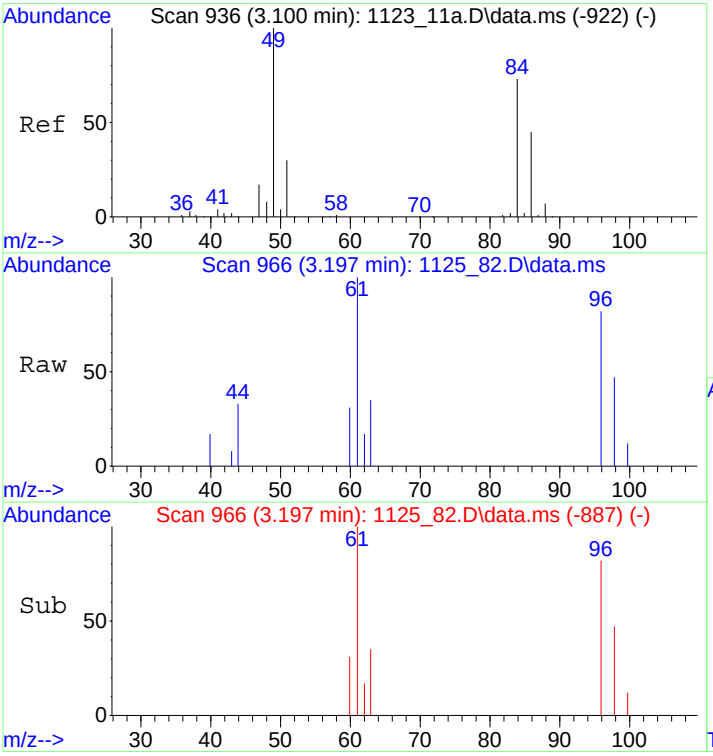


#19
METHYLENE CHLORIDE
Concen: 0.3614150 ppb
RT: 3.100 min Scan# 936
Delta R.T. -0.000 min
Lab File: 1125 82.D
Acq: 26 Nov 2014 4:53 am

Tgt Ion: 84 Resp: 3480

Ion	Ratio	Lower	Upper
84	100		
49	114.6	111.3	166.9
86	65.4	51.7	77.5

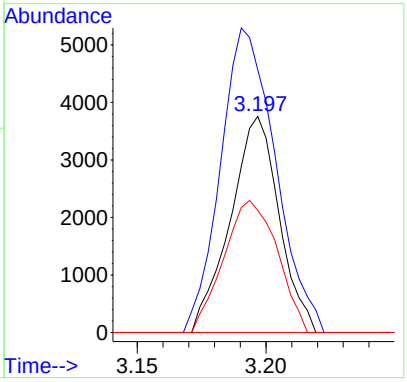


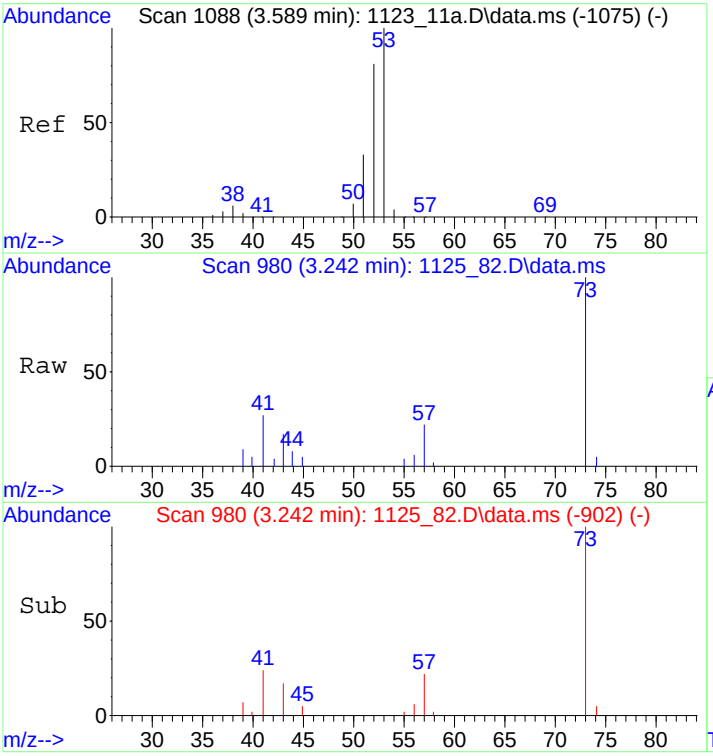


#22
TRANS-1,2-DICHLOROETHENE
Concen: 0.5785777 ppb
RT: 3.197 min Scan# 966
Delta R.T. 0.003 min
Lab File: 1125_82.D
Acq: 26 Nov 2014 4:53 am

Tgt Ion: 96 Resp: 4954

Ion	Ratio	Lower	Upper
96	100		
61	158.6	124.0	186.0
98	67.2	51.3	76.9

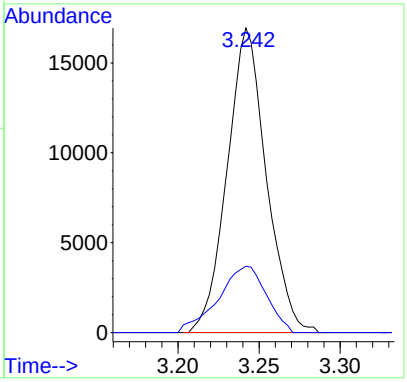


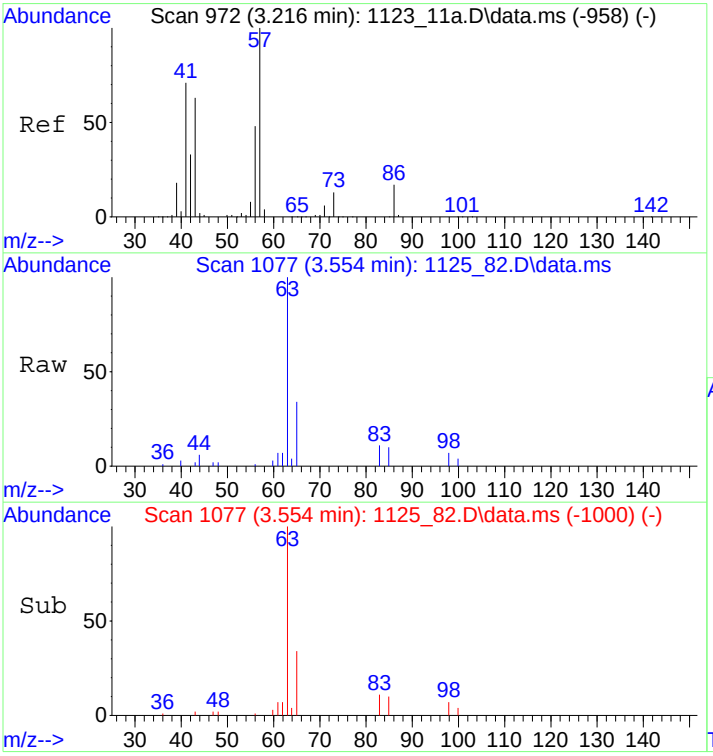


#23
METHYL TERT-BUTYL ETHER
Concen: 1.2130449 ppb
RT: 3.242 min Scan# 980
Delta R.T. -0.000 min
Lab File: 1125 82.D
Acq: 26 Nov 2014 4:53 am

Tgt Ion: 73 Resp: 28453

Ion	Ratio	Lower	Upper
73	100		
57	26.7	0.0	0.0#

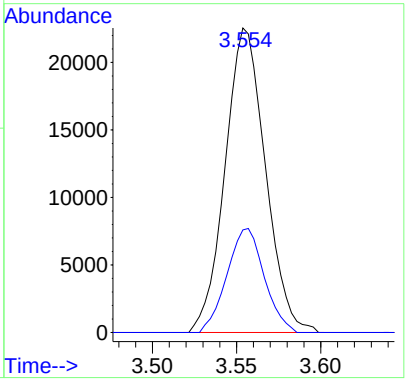


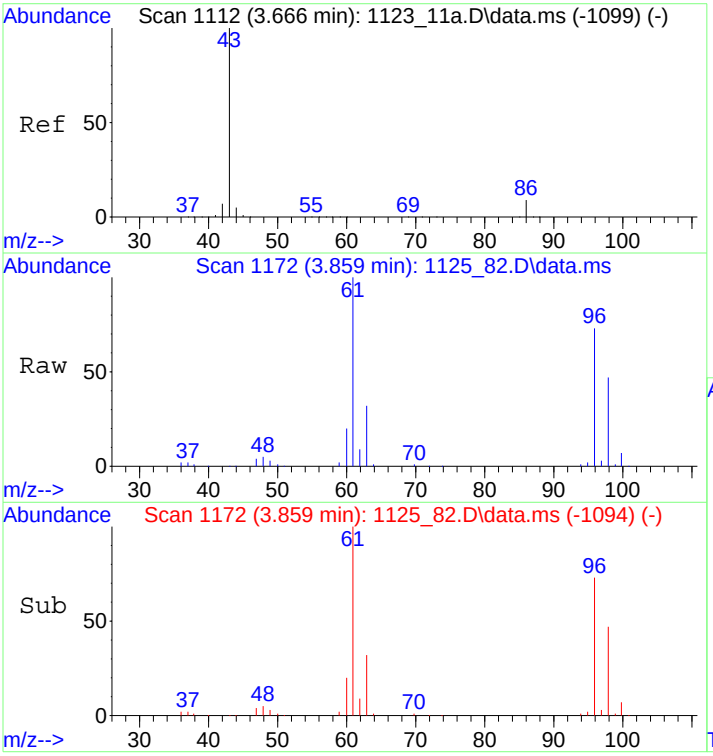


#24
1,1-DICHLOROETHANE
Concen: 2.2497698 ppb
RT: 3.554 min Scan# 1077
Delta R.T. -0.003 min
Lab File: 1125_82.D
Acq: 26 Nov 2014 4:53 am

Tgt Ion: 63 Resp: 37627

Ion	Ratio	Lower	Upper
63	100		
65	31.6	25.0	37.6

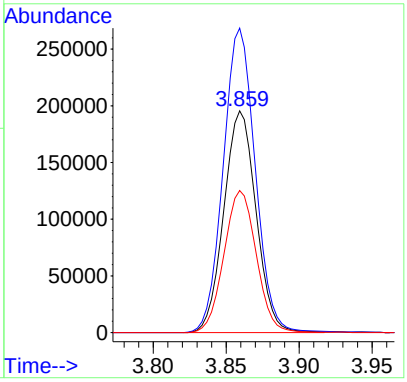


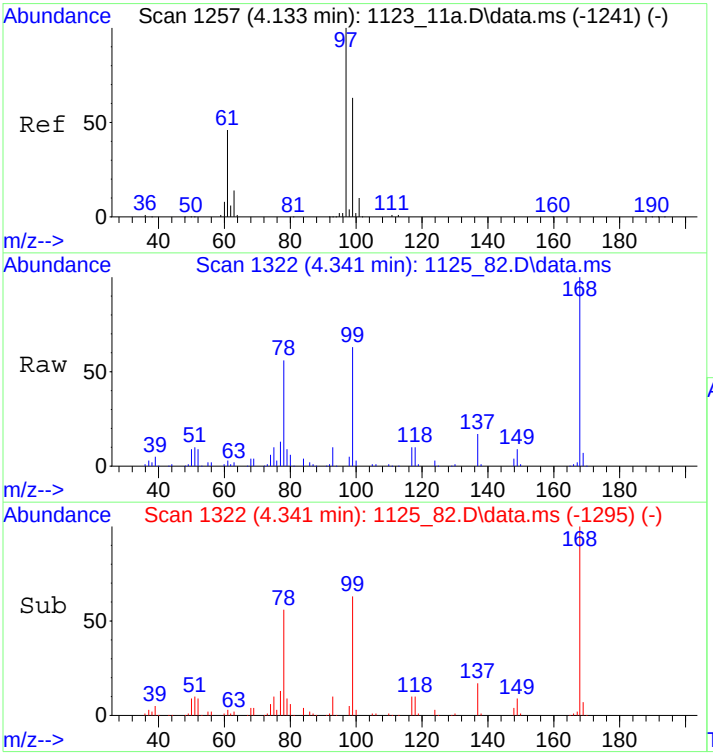


#28
CIS-1,2-DICHLOROETHENE
Concen: 32.0388020 ppb
RT: 3.859 min Scan# 1172
Delta R.T. -0.000 min
Lab File: 1125 82.D
Acq: 26 Nov 2014 4:53 am

Tgt Ion: 96 Resp: 301130

Ion	Ratio	Lower	Upper
96	100		
61	136.7	110.4	165.6
98	64.2	50.2	75.2

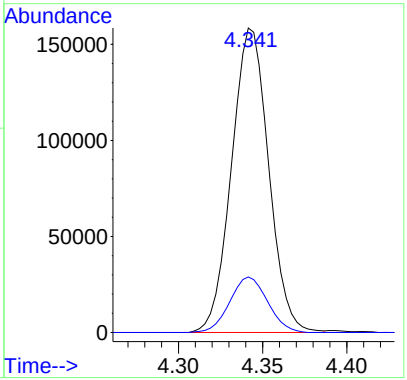


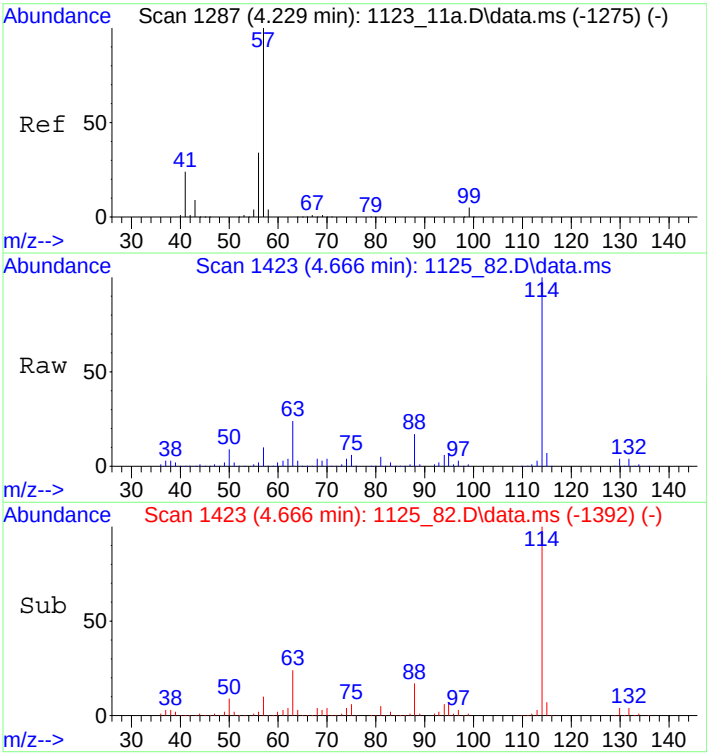


#39
BENZENE
Concen: 6.3143003 ppb
RT: 4.341 min Scan# 1322
Delta R.T. -0.003 min
Lab File: 1125_82.D
Acq: 26 Nov 2014 4:53 am

Tgt Ion: 78 Resp: 243066

Ion	Ratio	Lower	Upper
78	100		
51	18.5	13.8	20.8

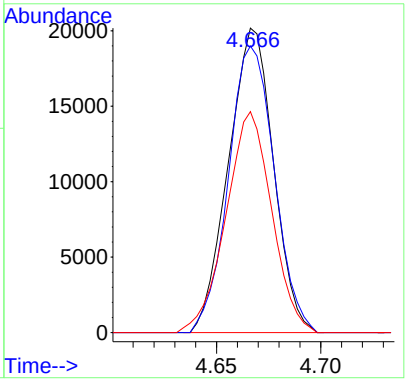


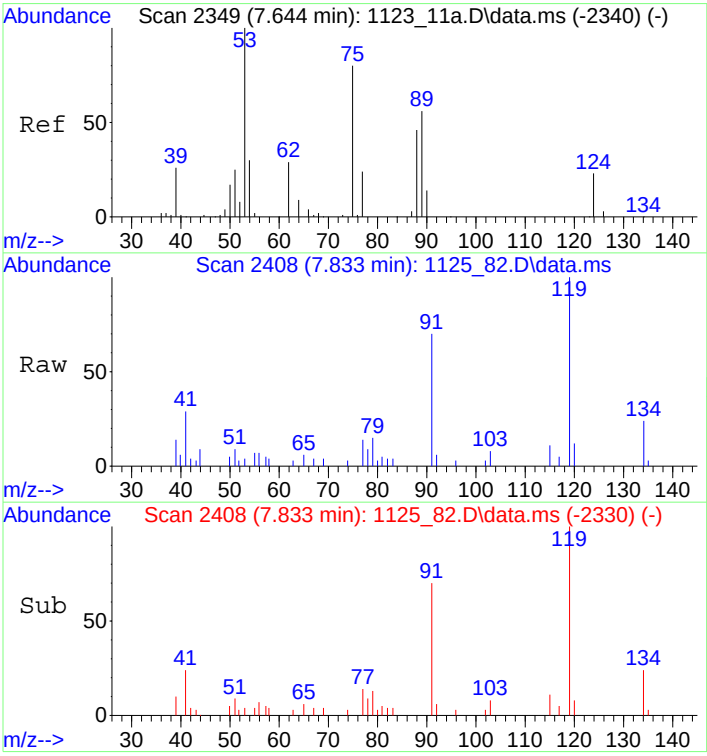


#42
TRICHLOROETHENE
Concen: 3.9072226 ppb
RT: 4.666 min Scan# 1423
Delta R.T. -0.000 min
Lab File: 1125 82.D
Acq: 26 Nov 2014 4:53 am

Tgt Ion:130 Resp: 30330

Ion	Ratio	Lower	Upper
130	100		
132	95.8	76.3	114.5
97	73.6	54.0	81.0

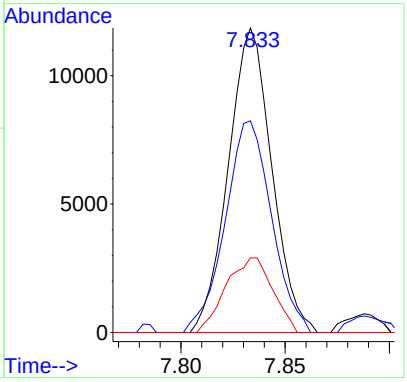


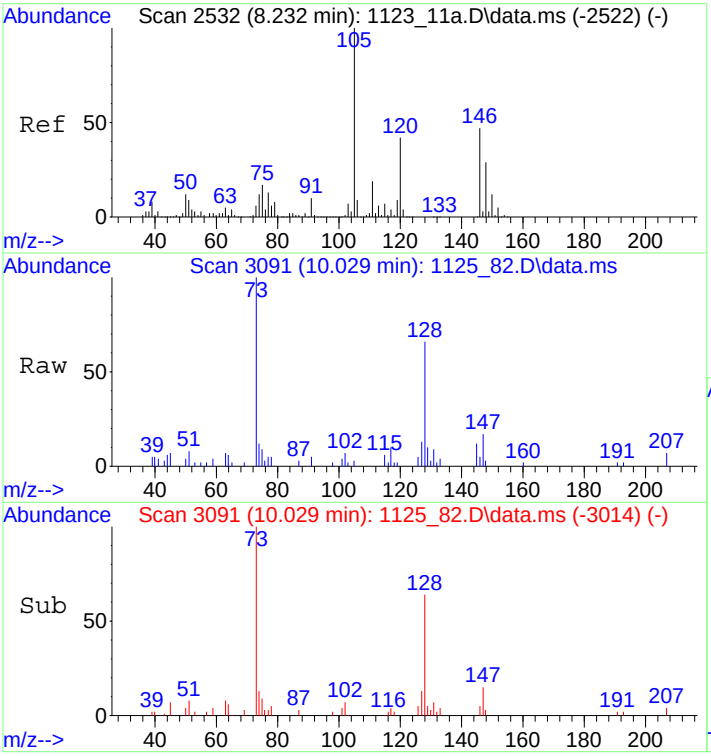


#78
tert-Butylbenzene
Concen: 0.6920026 ppb
RT: 7.833 min Scan# 2408
Delta R.T. -0.000 min
Lab File: 1125_82.D
Acq: 26 Nov 2014 4:53 am

Tgt Ion:119 Resp: 17236

Ion	Ratio	Lower	Upper
119	100		
91	73.8	54.5	81.7
134	26.2	19.5	29.3

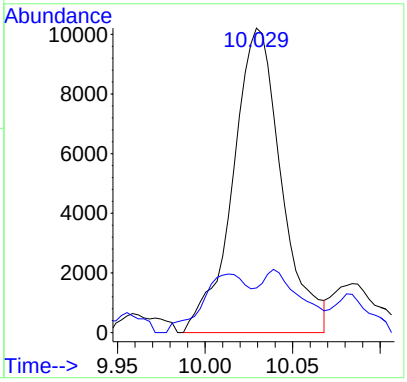


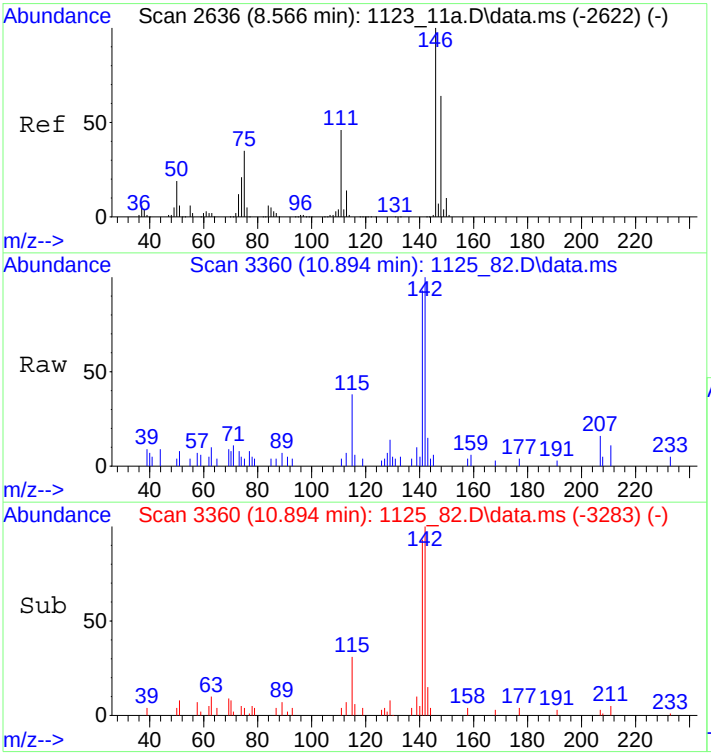


#92
Naphthalene
Concen: 0.8108835 ppb
RT: 10.029 min Scan# 3091
Delta R.T. -0.003 min
Lab File: 1125 82.D
Acq: 26 Nov 2014 4:53 am

Tgt Ion:128 Resp: 19759

Ion	Ratio	Lower	Upper
128	100		
129	16.6	8.7	13.1#

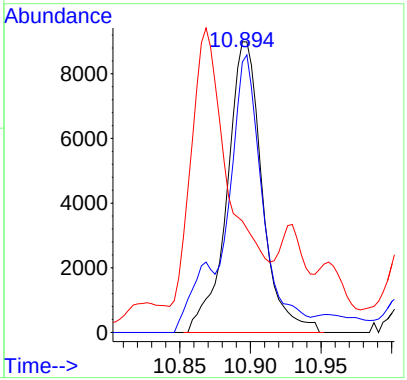


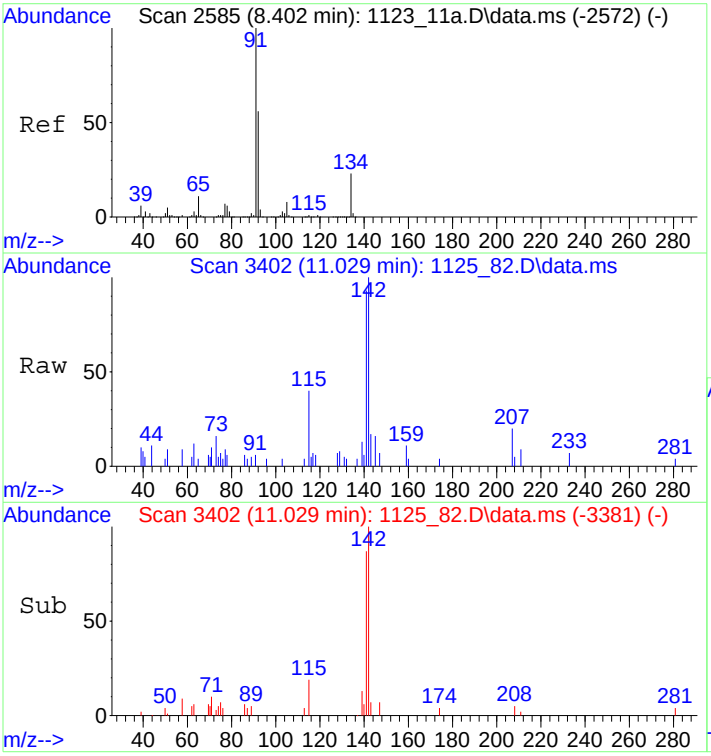


#94
1-Methylnaphthalene
Concen: 1.2428541 ppb
RT: 10.894 min Scan# 3360
Delta R.T. -0.003 min
Lab File: 1125_82.D
Acq: 26 Nov 2014 4:53 am

Tgt Ion:142 Resp: 15589

Ion	Ratio	Lower	Upper
142	100		
141	78.4	69.0	103.4
115	0.0	26.7	40.1#

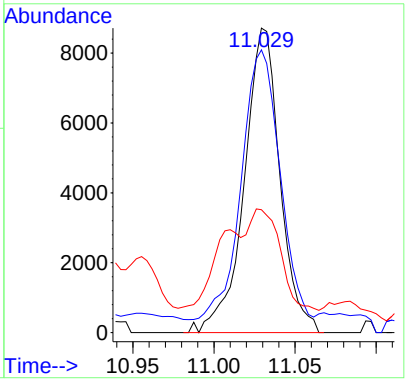




#95
2-Methylnaphthalene
Concen: 1.2038873 ppb
RT: 11.029 min Scan# 3402
Delta R.T. -0.003 min
Lab File: 1125 82.D
Acq: 26 Nov 2014 4:53 am

Tgt Ion:142 Resp: 13373

Ion	Ratio	Lower	Upper
142	100		
141	94.3	70.9	106.3
115	30.4	26.8	40.2



Quantitation Report (QT Reviewed)

Data Path : C:\MSDchem\1\data\112514\
Data File : 1125 83.D
Acq On : 26 Nov 2014 5:11 am
Operator : 644
Sample : L735181-07 1x WG756584 V8260
Misc : water IS/SURR14K01013
ALS Vial : 83 Sample Multiplier: 1
InstName : VOCMS20

Quant Time: Nov 19 13:02:57 2015
Quant Method : C:\MSDchem\1\methods\V820K23N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS20
QLast Update : Mon Nov 24 14:32:41 2014
Response via : Initial Calibration

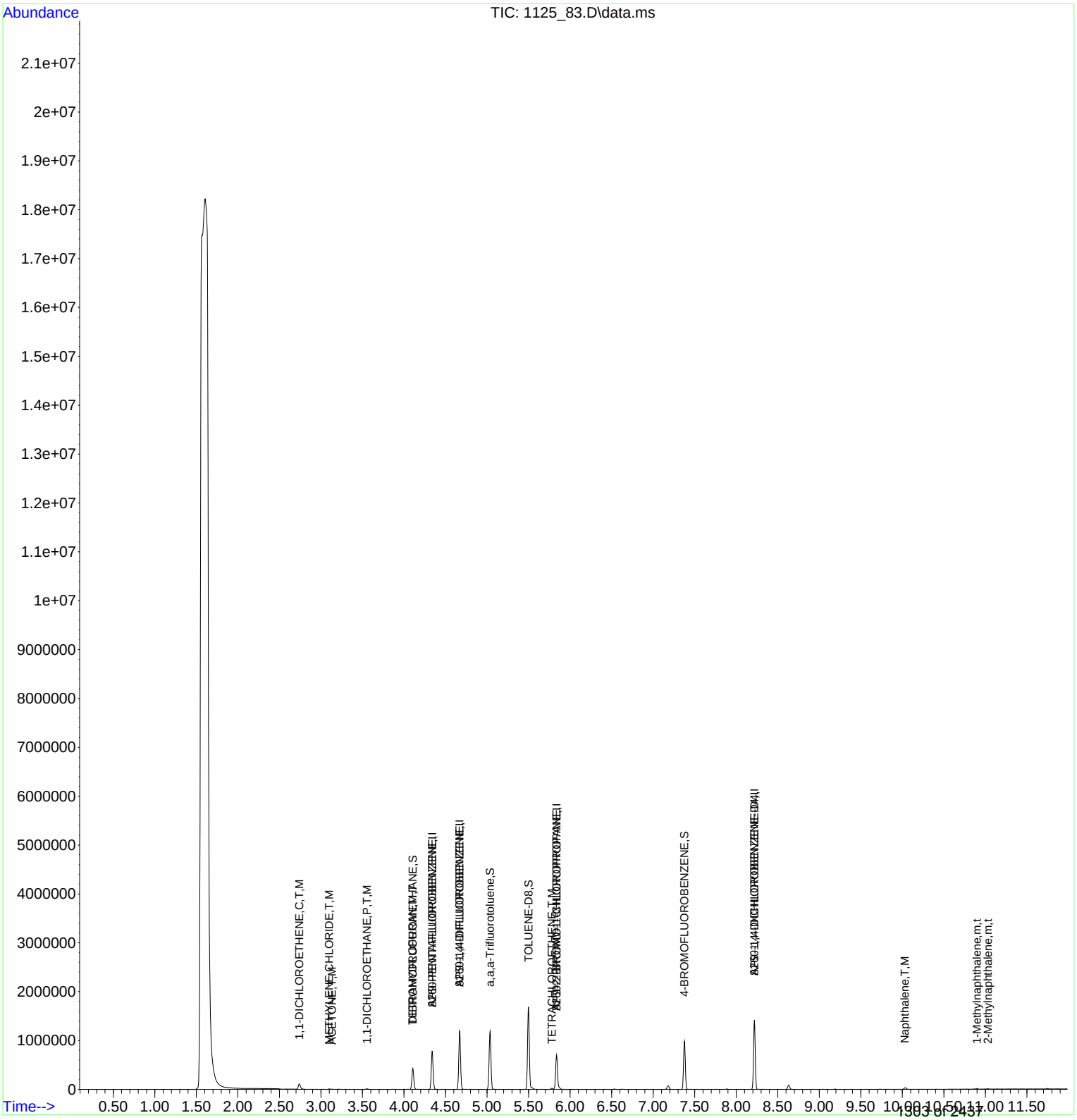
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 8260-PENTAFLUOROBENZENE	4.341	168	388613	40.0000000	ppb		0.00
41) 8260-1,4-DIFLUOROBENZENE	4.669	114	741738	40.0000000	ppb		0.00
53) 8260-2-BROMO-1-CHLOROP...	5.836	79	125638	40.0000000	ppb		0.00
84) 8260-1,4-DICHLOROBENZE...	8.219	152	311361	40.0000000	ppb		0.00
96) AP9-PENTAFLUOROBENZENE	4.341	168	388613	40.0000000	ppb		0.00
114) AP9-1,4-DIFLUOROBENZENE	4.669	114	741738	40.0000000	ppb		0.00
122) AP9-2-BROMO-1-CHLOROPR...	5.836	79	125638	40.0000000	ppb	#	0.00
128) AP9-1,4-DICHLOROBENZEN...	8.219	152	311361	40.0000000	ppb		0.00
System Monitoring Compounds							
33) DIBROMOFLUOROMETHANE	4.107	111	218797	41.0686044	ppb		0.00
Spiked Amount 40.000	Range 78 - 121		Recovery = 102.67%				
46) a,a,a-Trifluorotoluene	5.036	146	399996	42.5836381	ppb		0.00
Spiked Amount 40.000	Range 85 - 114		Recovery = 106.46%				
50) TOLUENE-D8	5.499	98	942278	40.0868208	ppb		0.00
Spiked Amount 40.000	Range 89 - 111		Recovery = 100.22%				
68) 4-BROMOFLUOROBENZENE	7.377	95	322764	39.1767609	ppb		0.00
Spiked Amount 40.000	Range 71 - 126		Recovery = 97.94%				
Target Compounds							Qvalue
14) 1,1-DICHLOROETHENE	2.740	61	65253	6.3853041	ppb		91
16) ACETONE	3.132	43	4963	2.4965765	ppb	#	77
19) METHYLENE CHLORIDE	3.100	84	2560	0.3040576	ppb	#	81
24) 1,1-DICHLOROETHANE	3.554	63	10705	0.7320051	ppb		95
31) TETRAHYDROFURAN	4.103	42	833	0.3490809	ppb	#	65
55) TETRACHLOROETHENE	5.782	164	4664	0.9919335	ppb		95
92) Naphthalene	10.029	128	7197	0.3426714	ppb	#	94
94) 1-Methylnaphthalene	10.897	142	5306	0.4907971	ppb		96
95) 2-Methylnaphthalene	11.029	142	4116	0.4298977	ppb	#	95

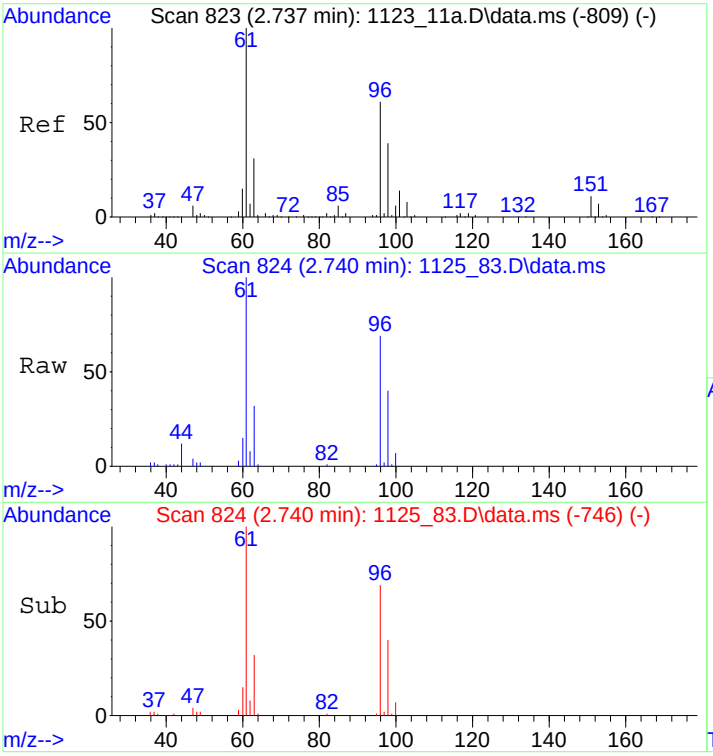
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\MSDchem\1\data\112514\
Data File : 1125 83.D
Acq On : 26 Nov 2014 5:11 am
Operator : 644
Sample : L735181-07 1x WG756584 V8260
Misc : water IS/SURR14K01013
ALS Vial : 83 Sample Multiplier: 1
InstName : VOCMS20

Quant Time: Nov 19 13:02:57 2015
Quant Method : C:\MSDchem\1\methods\V820K23N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS20
QLast Update : Mon Nov 24 14:32:41 2014
Response via : Initial Calibration

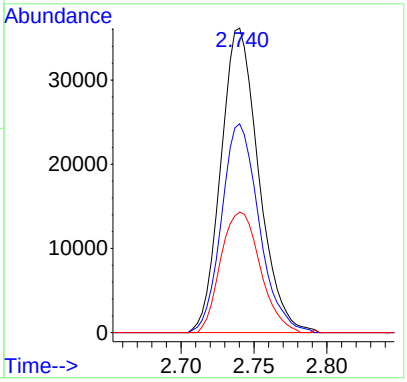


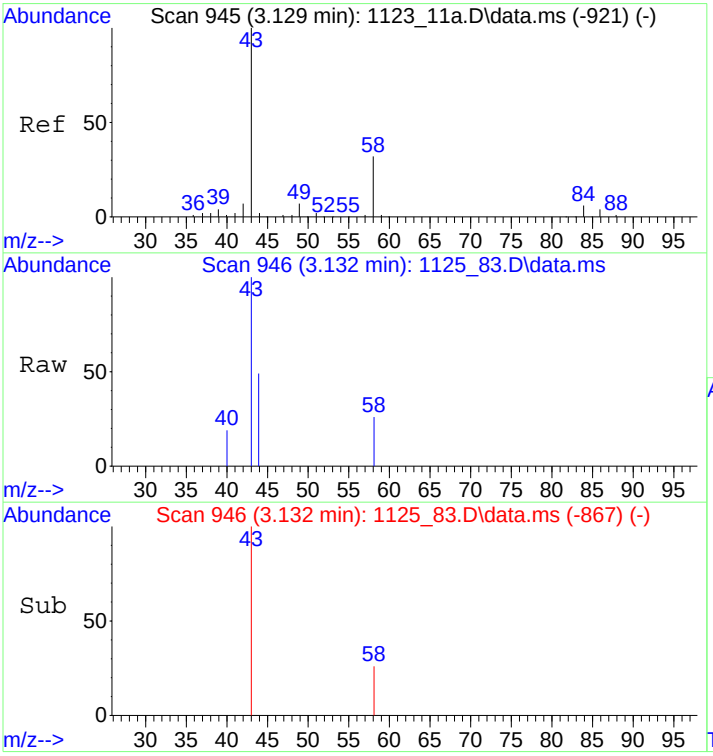


#14
1,1-DICHLOROETHENE
Concen: 6.3853041 ppb
RT: 2.740 min Scan# 824
Delta R.T. -0.000 min
Lab File: 1125 83.D
Acq: 26 Nov 2014 5:11 am

Tgt Ion: 61 Resp: 65253

Ion	Ratio	Lower	Upper
61	100		
96	68.1	47.8	71.8
98	41.3	30.6	45.8

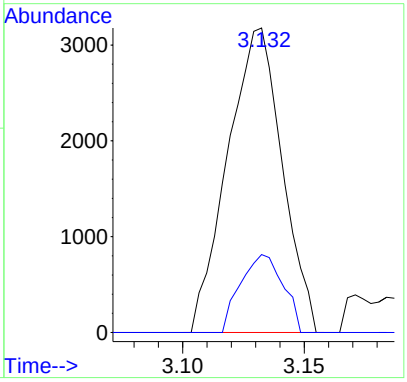


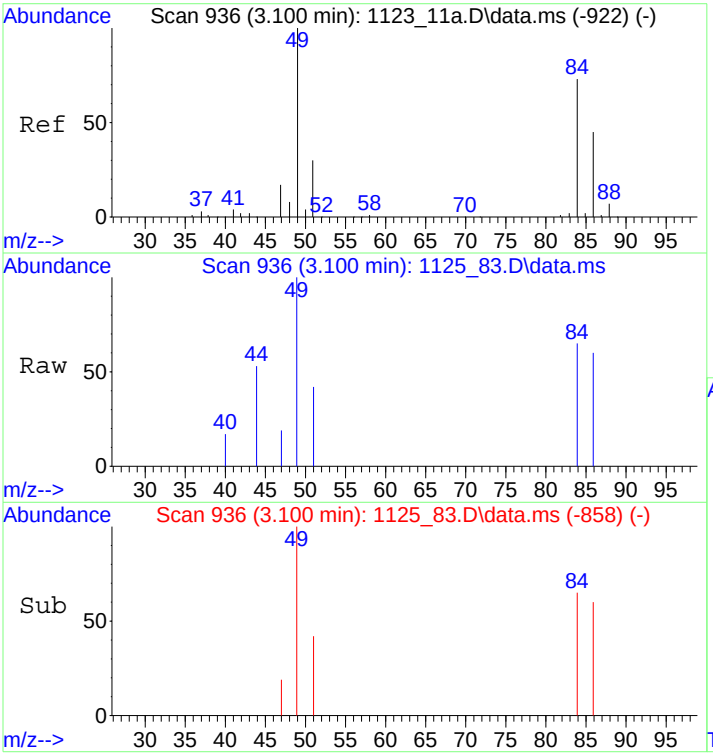


#16
ACETONE
Concen: 2.4965765 ppb
RT: 3.132 min Scan# 946
Delta R.T. 0.003 min
Lab File: 1125_83.D
Acq: 26 Nov 2014 5:11 am

Tgt Ion: 43 Resp: 4963

Ion	Ratio	Lower	Upper
43	100		
58	20.0	26.3	39.5#

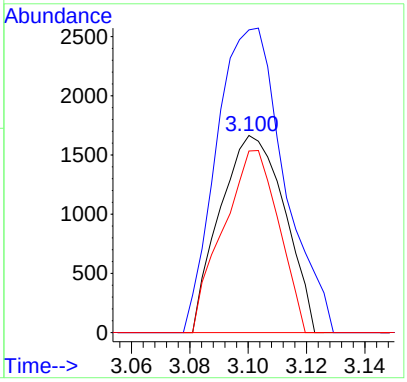


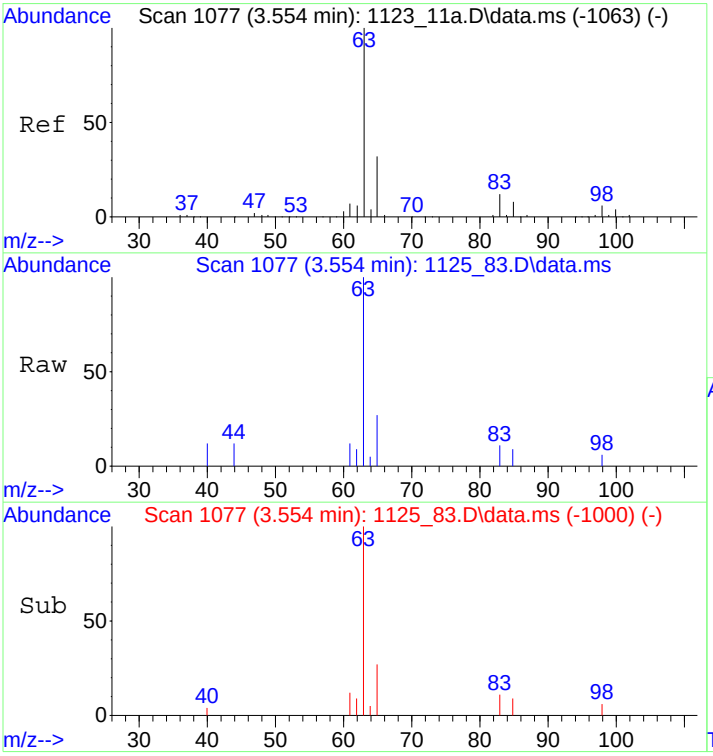


#19
METHYLENE CHLORIDE
Concen: 0.3040576 ppb
RT: 3.100 min Scan# 936
Delta R.T. -0.000 min
Lab File: 1125 83.D
Acq: 26 Nov 2014 5:11 am

Tgt Ion: 84 Resp: 2560

Ion	Ratio	Lower	Upper
84	100		
49	162.1	111.3	166.9
86	79.3	51.7	77.5#

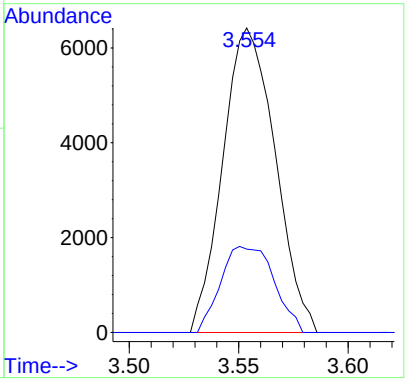


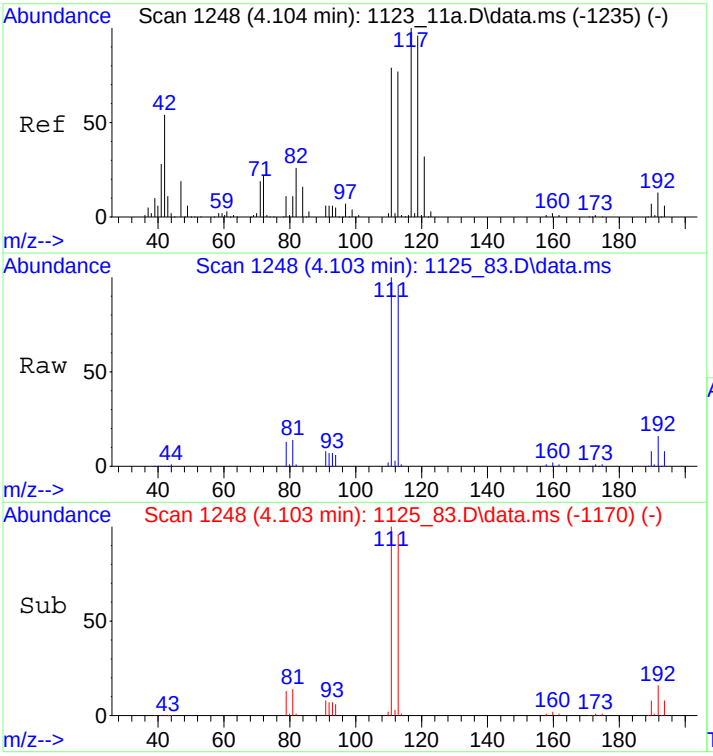


#24
1,1-DICHLOROETHANE
Concen: 0.7320051 ppb
RT: 3.554 min Scan# 1077
Delta R.T. -0.003 min
Lab File: 1125_83.D
Acq: 26 Nov 2014 5:11 am

Tgt Ion: 63 Resp: 10705

Ion	Ratio	Lower	Upper
63	100		
65	28.7	25.0	37.6

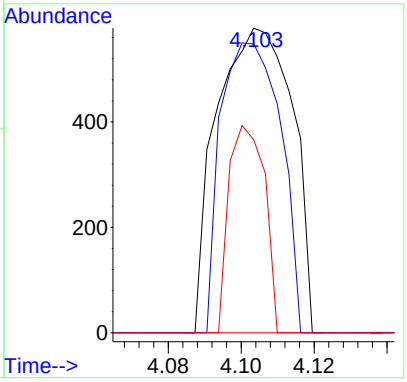


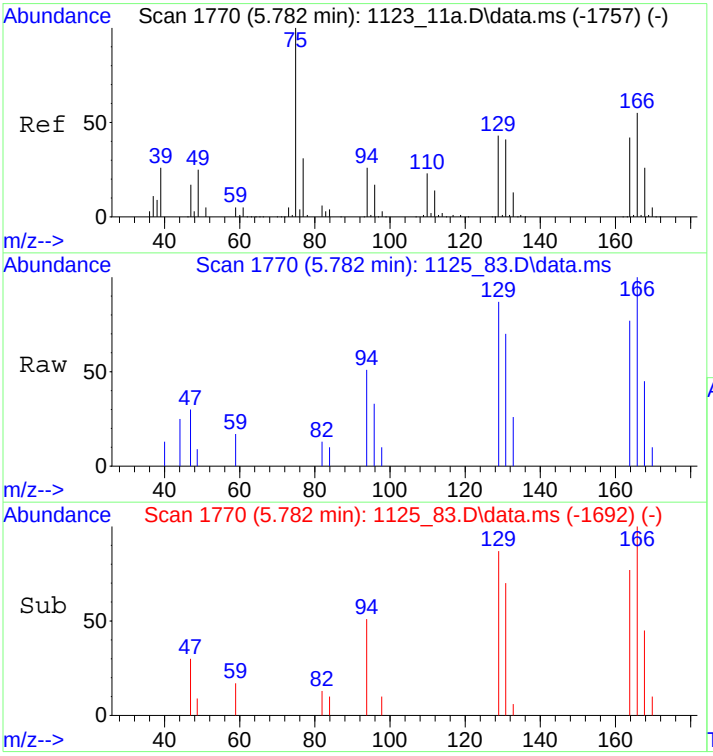


#31
TETRAHYDROFURAN
Concen: 0.3490809 ppb
RT: 4.103 min Scan# 1248
Delta R.T. -0.000 min
Lab File: 1125 83.D
Acq: 26 Nov 2014 5:11 am

Tgt Ion: 42 Resp: 833

Ion	Ratio	Lower	Upper
42	100		
41	75.0	42.6	64.0#
39	0.0	17.2	25.8#

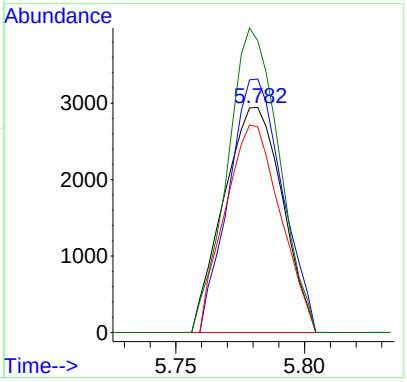


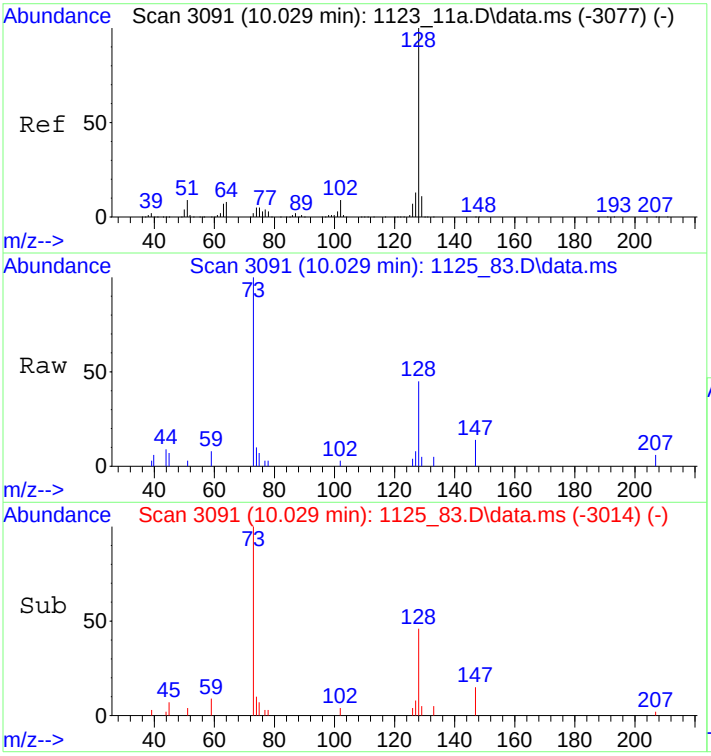


#55
TETRACHLOROETHENE
Concen: 0.9919335 ppb
RT: 5.782 min Scan# 1770
Delta R.T. -0.000 min
Lab File: 1125_83.D
Acq: 26 Nov 2014 5:11 am

Tgt Ion:164 Resp: 4664

Ion	Ratio	Lower	Upper
164	100		
129	102.7	80.4	120.6
131	86.8	76.9	115.3
166	120.4	100.2	150.2

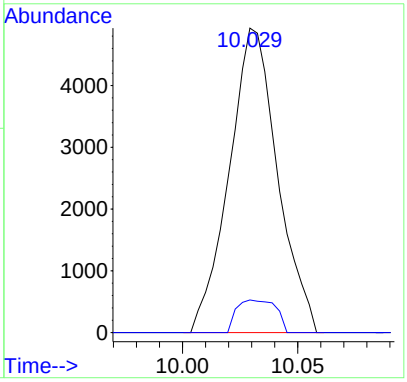


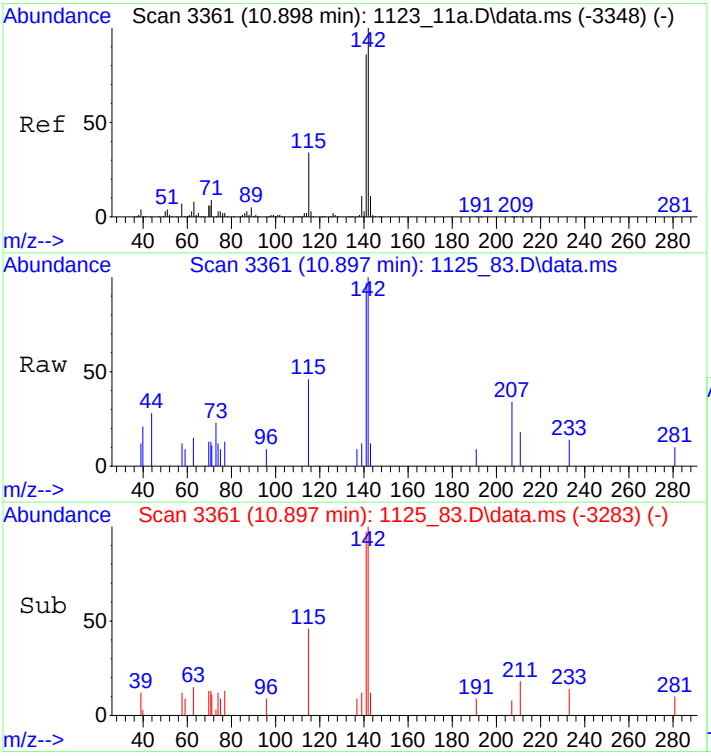


#92
Naphthalene
Concen: 0.3426714 ppb
RT: 10.029 min Scan# 3091
Delta R.T. -0.003 min
Lab File: 1125 83.D
Acq: 26 Nov 2014 5:11 am

Tgt Ion:128 Resp: 7197

Ion	Ratio	Lower	Upper
128	100		
129	8.7	8.7	13.1#

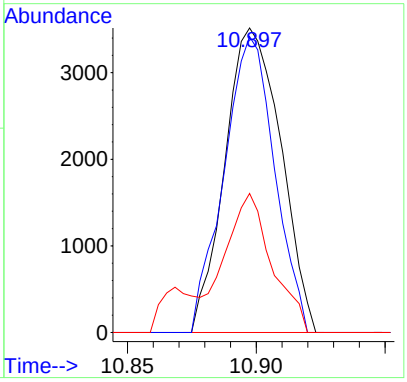


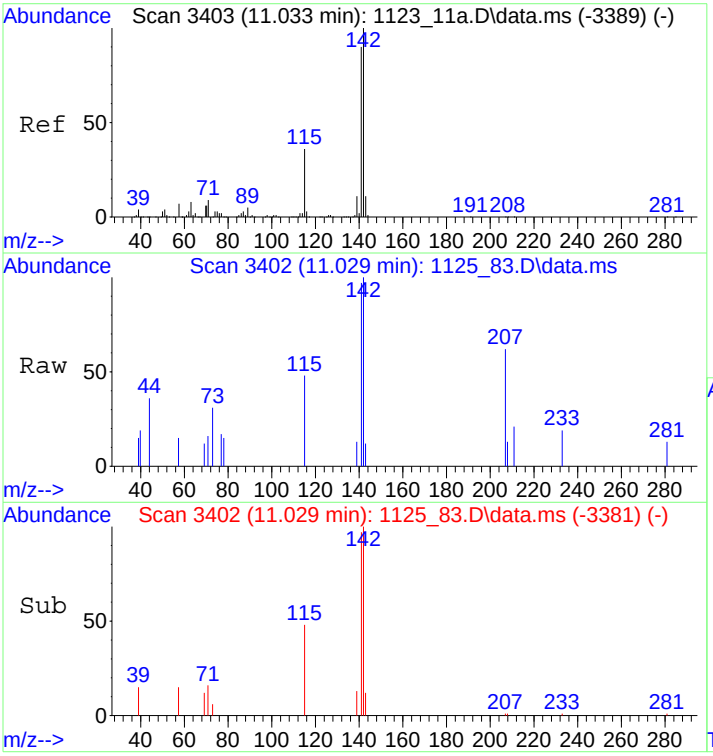


#94
1-Methylnaphthalene
Concen: 0.4907971 ppb
RT: 10.897 min Scan# 3361
Delta R.T. 0.000 min
Lab File: 1125_83.D
Acq: 26 Nov 2014 5:11 am

Tgt Ion:142 Resp: 5306

Ion	Ratio	Lower	Upper
142	100		
141	87.9	69.0	103.4
115	38.3	26.7	40.1

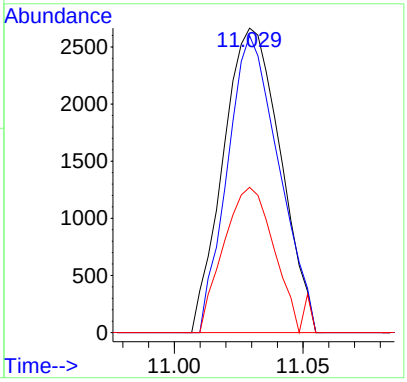




#95
2-Methylnaphthalene
Concen: 0.4298977 ppb
RT: 11.029 min Scan# 3402
Delta R.T. -0.003 min
Lab File: 1125 83.D
Acq: 26 Nov 2014 5:11 am

Tgt Ion:142 Resp: 4116

Ion	Ratio	Lower	Upper
142	100		
141	87.7	70.9	106.3
115	43.3	26.8	40.2#



Quantitation Report (QT Reviewed)

Data Path : C:\MSDchem\1\data\112514\
Data File : 1125 84.D
Acq On : 26 Nov 2014 5:29 am
Operator : 644
Sample : L735181-10 1x WG756584 V8260
Misc : water IS/SURR14K01013
ALS Vial : 84 Sample Multiplier: 1
InstName : VOCMS20

Quant Time: Nov 19 13:04:39 2015
Quant Method : C:\MSDchem\1\methods\V820K23N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS20
QLast Update : Mon Nov 24 14:32:41 2014
Response via : Initial Calibration

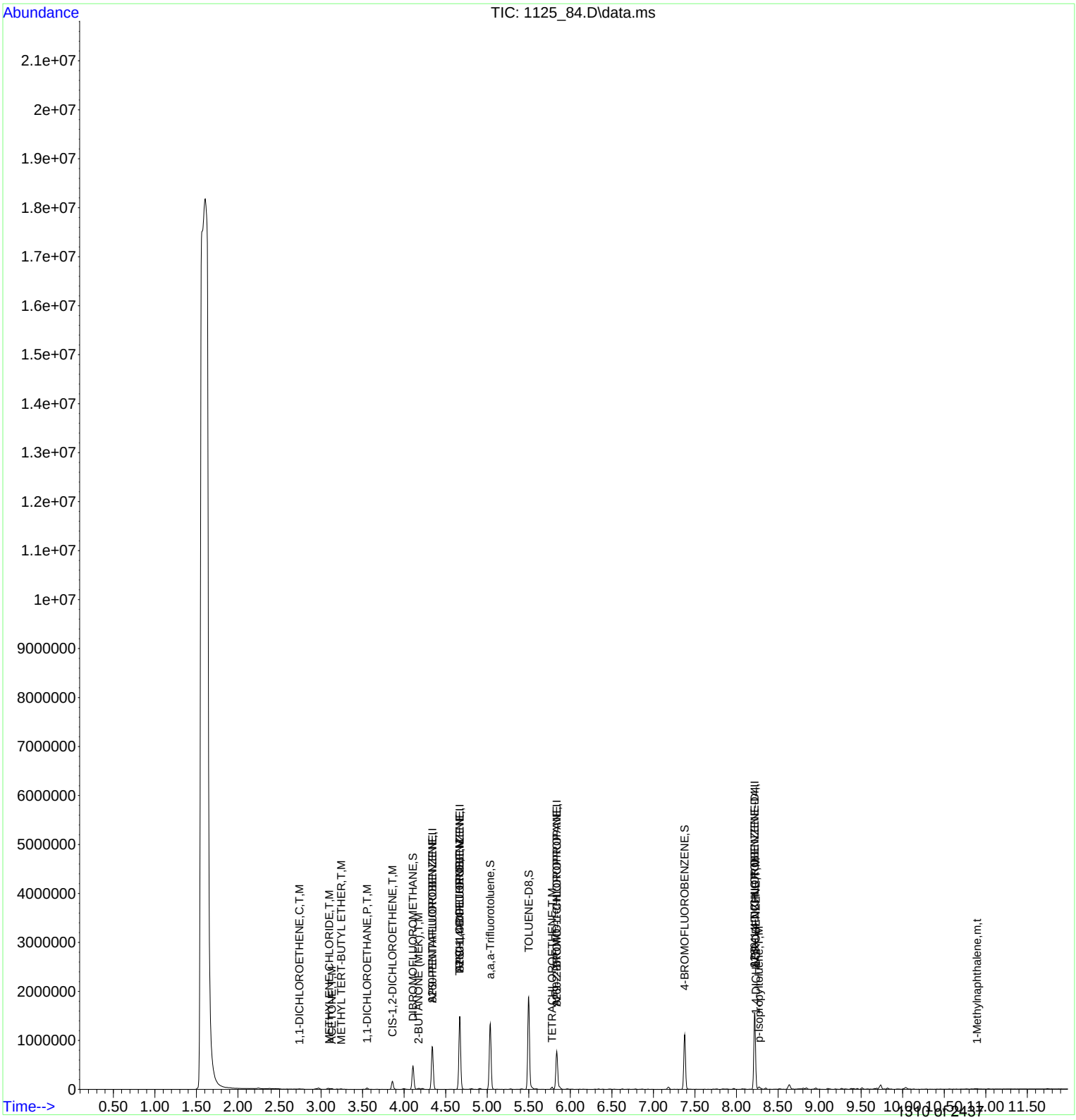
Compound	R.T.	QIon	Response	Conc Units		Dev(Min)
Internal Standards						
1) 8260-PENTAFLUOROBENZENE	4.342	168	432356	40.0000000 ppb		0.00
41) 8260-1,4-DIFLUOROBENZENE	4.670	114	829152	40.0000000 ppb		0.00
53) 8260-2-BROMO-1-CHLOROP...	5.837	79	139185	40.0000000 ppb		0.00
84) 8260-1,4-DICHLOROBENZE...	8.219	152	352887	40.0000000 ppb		0.00
96) AP9-PENTAFLUOROBENZENE	4.342	168	432356	40.0000000 ppb		0.00
114) AP9-1,4-DIFLUOROBENZENE	4.670	114	829152	40.0000000 ppb		0.00
122) AP9-2-BROMO-1-CHLOROPR...	5.837	79	139185	40.0000000 ppb	#	0.00
128) AP9-1,4-DICHLOROBENZEN...	8.219	152	352887	40.0000000 ppb		0.00
System Monitoring Compounds						
33) DIBROMOFLUOROMETHANE	4.107	111	241214	40.6955504 ppb		0.00
Spiked Amount 40.000	Range 78 - 121		Recovery = 101.74%			
46) a,a,a-Trifluorotoluene	5.036	146	440604	41.9615890 ppb		0.00
Spiked Amount 40.000	Range 85 - 114		Recovery = 104.90%			
50) TOLUENE-D8	5.499	98	1048961	39.9207122 ppb		0.00
Spiked Amount 40.000	Range 89 - 111		Recovery = 99.80%			
68) 4-BROMOFLUOROBENZENE	7.377	95	362918	39.7631267 ppb		0.00
Spiked Amount 40.000	Range 71 - 126		Recovery = 99.41%			
Target Compounds						Qvalue
14) 1,1-DICHLOROETHENE	2.740	61	3787	0.3330828 ppb		94
16) ACETONE	3.129	43	16231	7.3387436 ppb		98
19) METHYLENE CHLORIDE	3.100	84	3632	0.3877373 ppb		90
23) METHYL TERT-BUTYL ETHER	3.242	73	7610	0.3335019 ppb	#	100
24) 1,1-DICHLOROETHANE	3.554	63	20853	1.2816571 ppb		97
28) CIS-1,2-DICHLOROETHENE	3.859	96	56904	6.2234306 ppb		97
29) 2-BUTANONE (MEK)	4.174	72	725	0.8195876 ppb	#	1
42) TRICHLOROETHENE	4.666	130	41539	5.4019474 ppb		95
55) TETRACHLOROETHENE	5.782	164	8463	1.6247141 ppb		97
82) p-Isopropyltoluene	8.271	119	23171	0.7289547 ppb		96
85) 1,4-DICHLOROBENZENE	8.232	146	9563	0.5270878 ppb	#	1
94) 1-Methylnaphthalene	10.894	142	3748	0.3058883 ppb		95

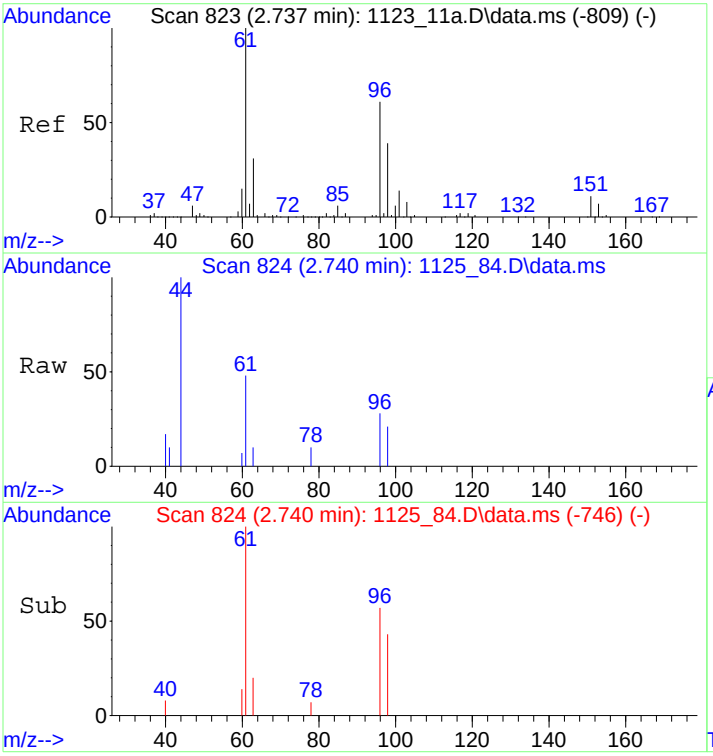
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\MSDchem\1\data\112514\
Data File : 1125 84.D
Acq On : 26 Nov 2014 5:29 am
Operator : 644
Sample : L735181-10 1x WG756584 V8260
Misc : water IS/SURR14K01013
ALS Vial : 84 Sample Multiplier: 1
InstName : VOCMS20

Quant Time: Nov 19 13:04:39 2015
Quant Method : C:\MSDchem\1\methods\V820K23N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS20
QLast Update : Mon Nov 24 14:32:41 2014
Response via : Initial Calibration

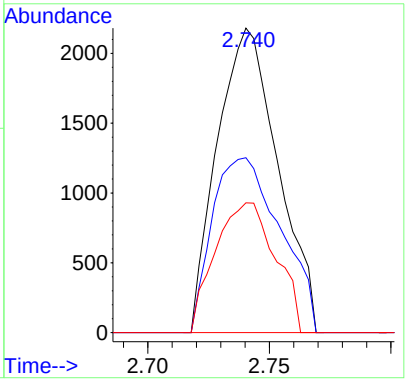


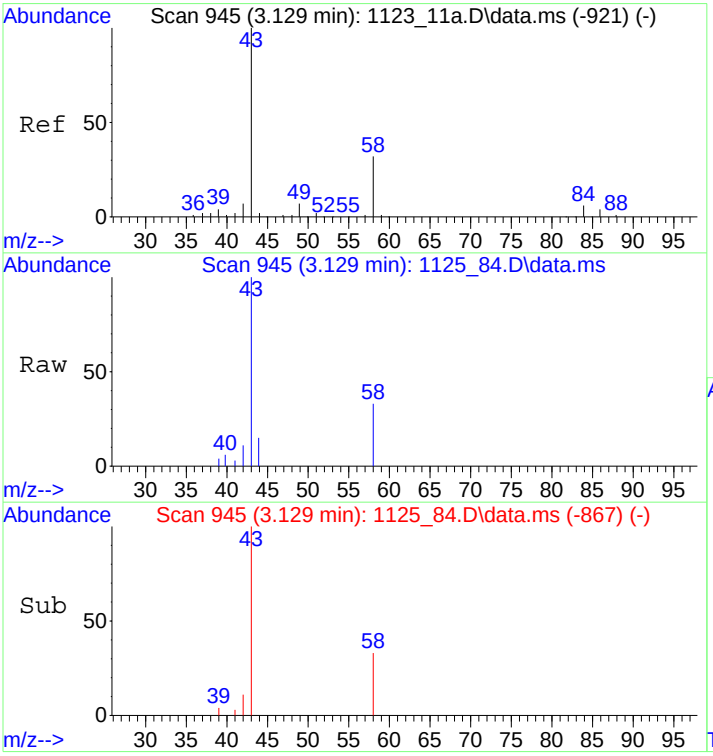


#14
1,1-DICHLOROETHENE
Concen: 0.3330828 ppb
RT: 2.740 min Scan# 824
Delta R.T. -0.000 min
Lab File: 1125 84.D
Acq: 26 Nov 2014 5:29 am

Tgt Ion: 61 Resp: 3787

Ion	Ratio	Lower	Upper
61	100		
96	64.4	47.8	71.8
98	42.3	30.6	45.8

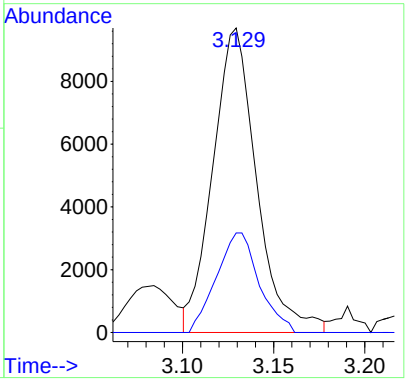


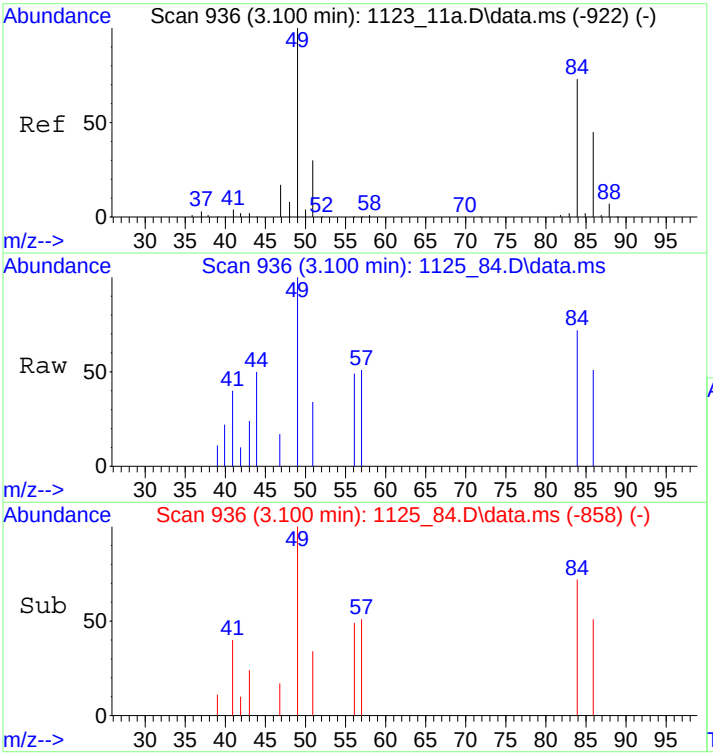


#16
ACETONE
Concen: 7.3387436 ppb
RT: 3.129 min Scan# 945
Delta R.T. 0.000 min
Lab File: 1125_84.D
Acq: 26 Nov 2014 5:29 am

Tgt Ion: 43 Resp: 16231

Ion	Ratio	Lower	Upper
43	100		
58	31.7	26.3	39.5

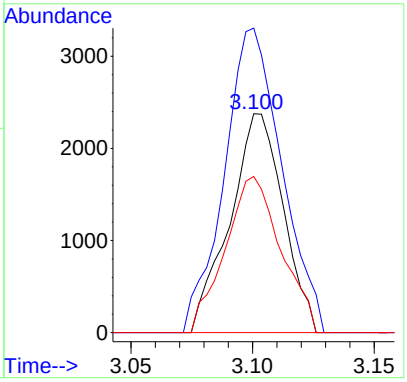


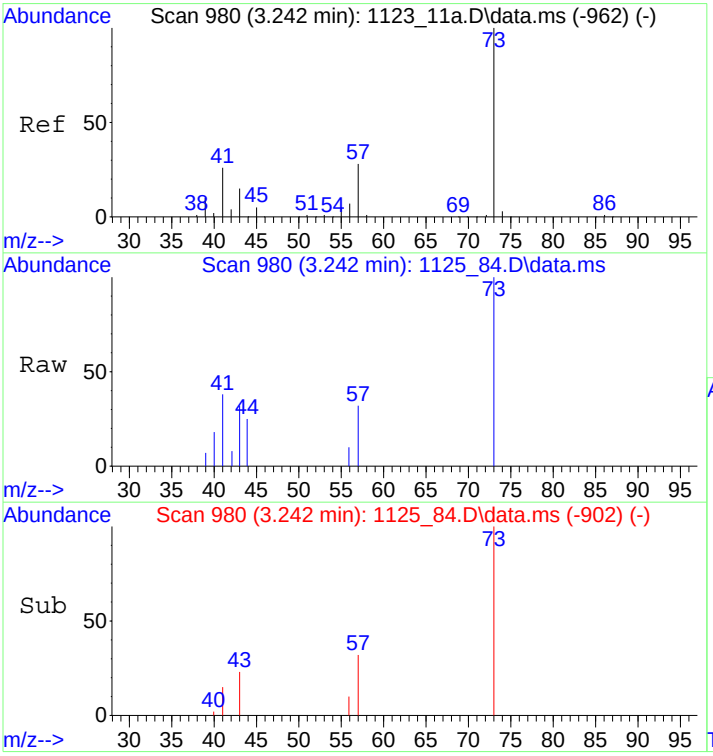


#19
METHYLENE CHLORIDE
Concen: 0.3877373 ppb
RT: 3.100 min Scan# 936
Delta R.T. -0.000 min
Lab File: 1125 84.D
Acq: 26 Nov 2014 5:29 am

Tgt Ion: 84 Resp: 3632

Ion	Ratio	Lower	Upper
84	100		
49	149.7	111.3	166.9
86	74.3	51.7	77.5

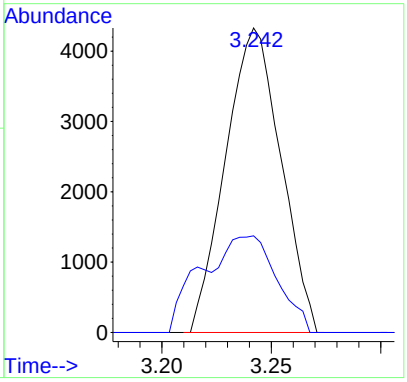


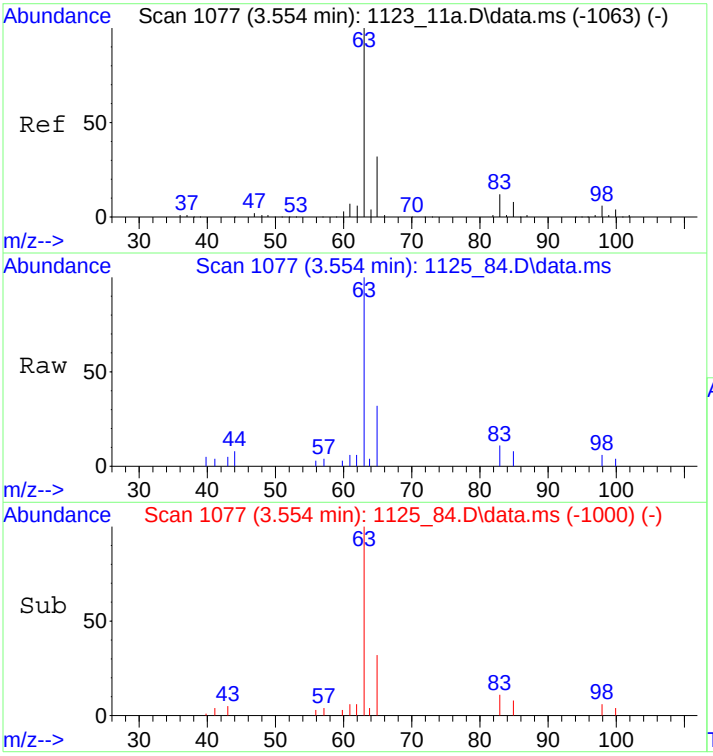


#23
METHYL TERT-BUTYL ETHER
Concen: 0.3335019 ppb
RT: 3.242 min Scan# 980
Delta R.T. -0.000 min
Lab File: 1125_84.D
Acq: 26 Nov 2014 5:29 am

Tgt Ion: 73 Resp: 7610

Ion	Ratio	Lower	Upper
73	100		
57	31.3	0.0	0.0#

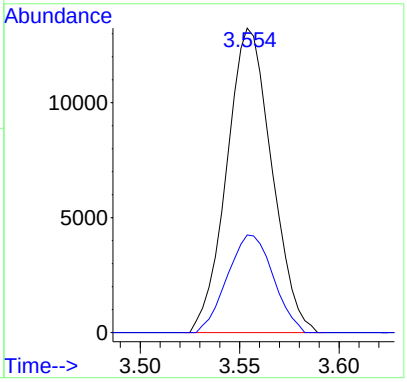


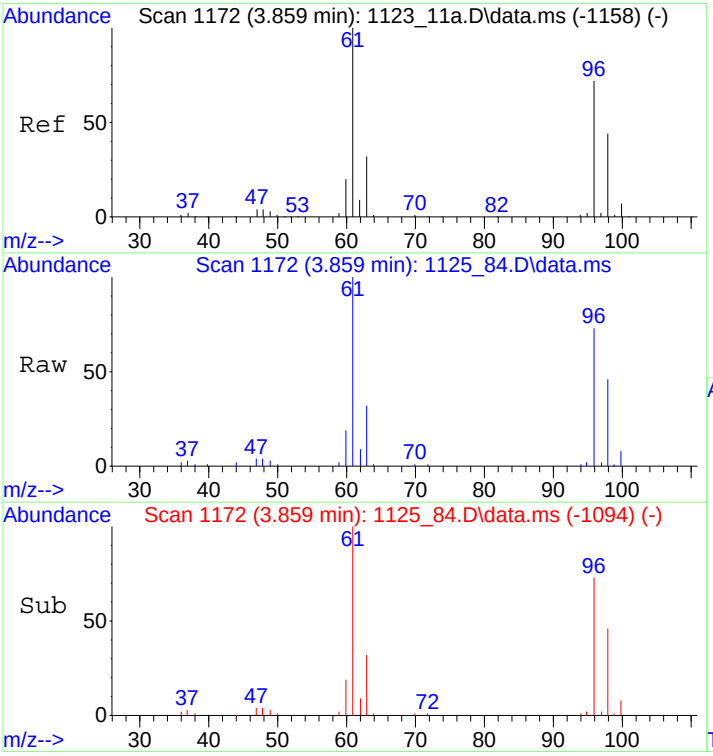


#24
1,1-DICHLOROETHANE
Concen: 1.2816571 ppb
RT: 3.554 min Scan# 1077
Delta R.T. -0.003 min
Lab File: 1125 84.D
Acq: 26 Nov 2014 5:29 am

Tgt Ion: 63 Resp: 20853

Ion	Ratio	Lower	Upper
63	100		
65	32.7	25.0	37.6

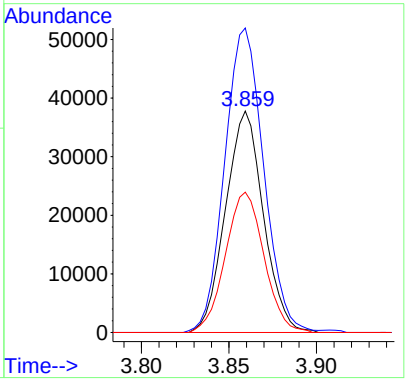


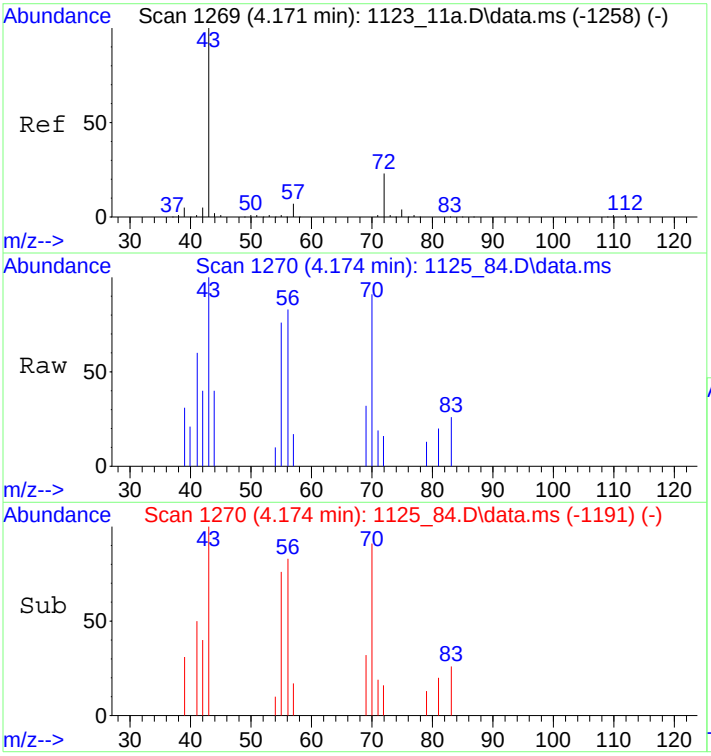


#28
CIS-1,2-DICHLOROETHENE
Concen: 6.2234306 ppb
RT: 3.859 min Scan# 1172
Delta R.T. -0.000 min
Lab File: 1125_84.D
Acq: 26 Nov 2014 5:29 am

Tgt Ion: 96 Resp: 56904

Ion	Ratio	Lower	Upper
96	100		
61	141.6	110.4	165.6
98	64.6	50.2	75.2

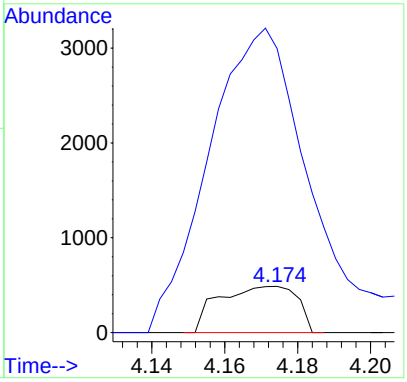


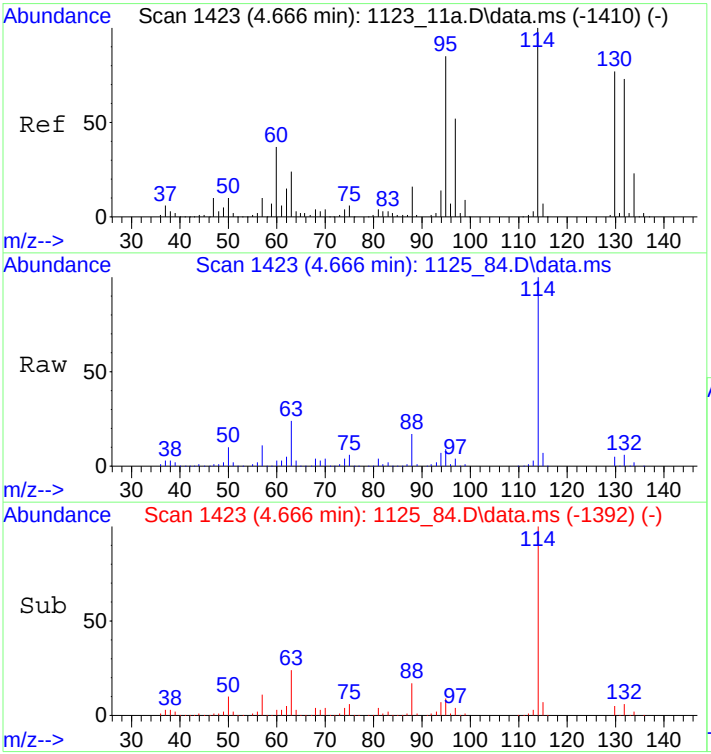


#29
2-BUTANONE (MEK)
Concen: 0.8195876 ppb
RT: 4.174 min Scan# 1270
Delta R.T. 0.003 min
Lab File: 1125 84.D
Acq: 26 Nov 2014 5:29 am

Tgt Ion: 72 Resp: 725

Ion	Ratio	Lower	Upper
72	100		
43	841.1	313.7	470.5#

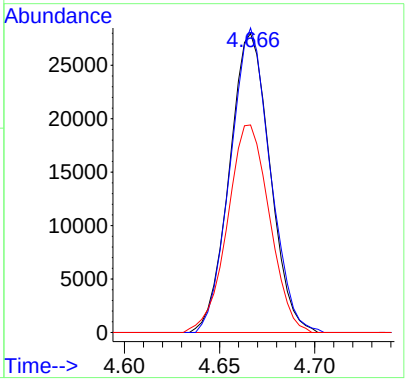


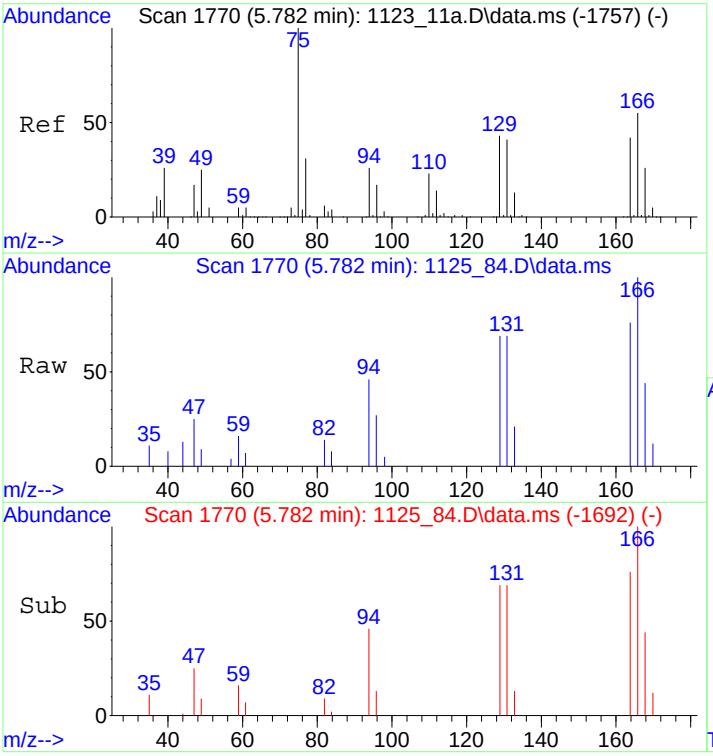


#42
TRICHLOROETHENE
Concen: 5.4019474 ppb
RT: 4.666 min Scan# 1423
Delta R.T. -0.000 min
Lab File: 1125_84.D
Acq: 26 Nov 2014 5:29 am

Tgt Ion:130 Resp: 41539

Ion	Ratio	Lower	Upper
130	100		
132	100.0	76.3	114.5
97	71.9	54.0	81.0

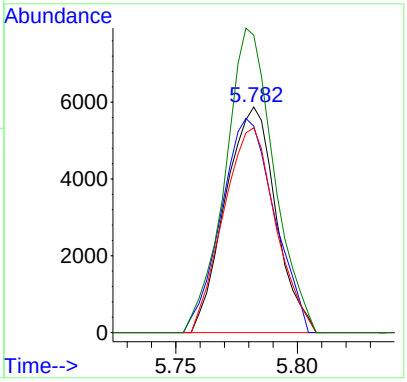


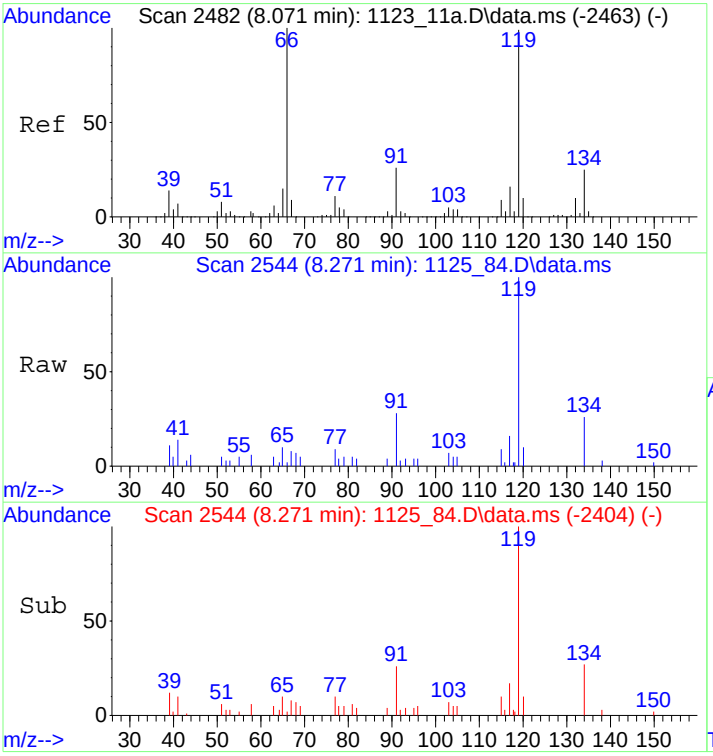


#55
TETRACHLOROETHENE
Concen: 1.6247141 ppb
RT: 5.782 min Scan# 1770
Delta R.T. -0.000 min
Lab File: 1125 84.D
Acq: 26 Nov 2014 5:29 am

Tgt Ion:164 Resp: 8463

Ion	Ratio	Lower	Upper
164	100		
129	100.3	80.4	120.6
131	93.9	76.9	115.3
166	131.2	100.2	150.2

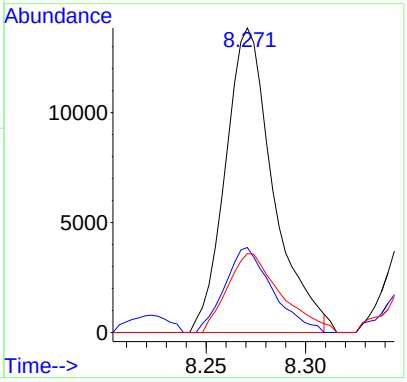


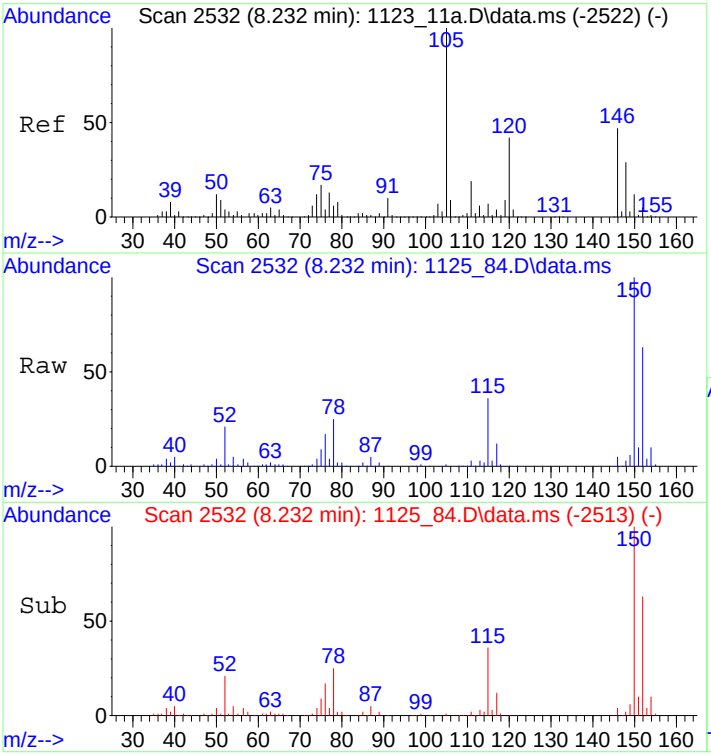


#82
p-Isopropyltoluene
Concen: 0.7289547 ppb
RT: 8.271 min Scan# 2544
Delta R.T. 0.199 min
Lab File: 1125_84.D
Acq: 26 Nov 2014 5:29 am

Tgt Ion:119 Resp: 23171

Ion	Ratio	Lower	Upper
119	100		
91	27.7	22.6	34.0
134	28.6	20.2	30.4

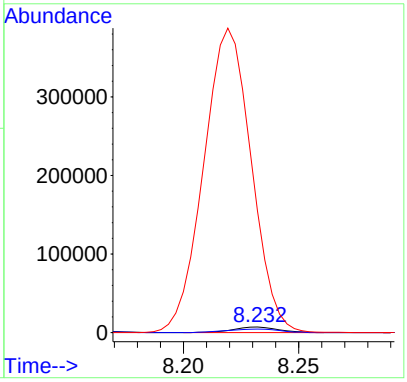


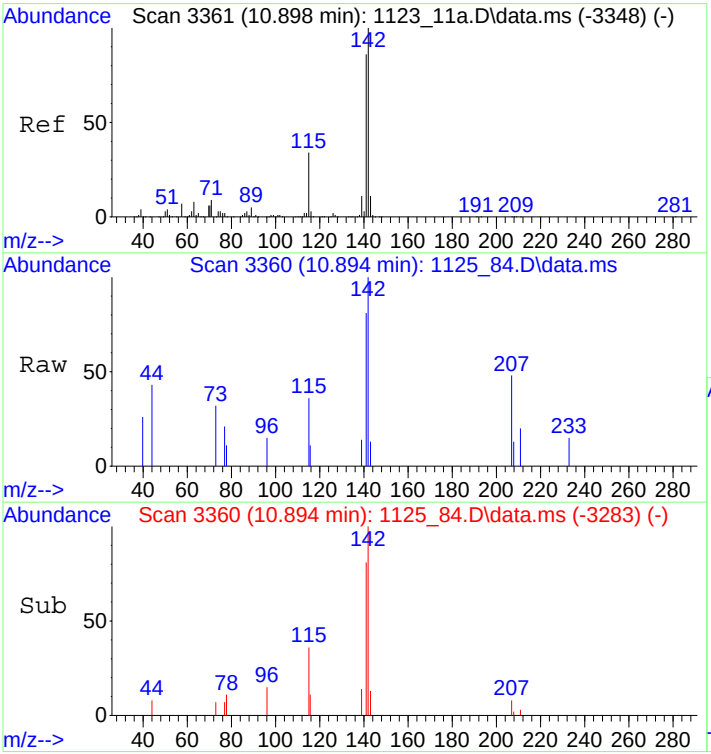


#85
1,4-DICHLOROBENZENE
Concen: 0.5270878 ppb
RT: 8.232 min Scan# 2532
Delta R.T. -0.000 min
Lab File: 1125 84.D
Acq: 26 Nov 2014 5:29 am

Tgt Ion:146 Resp: 9563

Ion	Ratio	Lower	Upper
146	100		
148	73.5	51.0	76.4
150	5840.0	112.3	168.5#

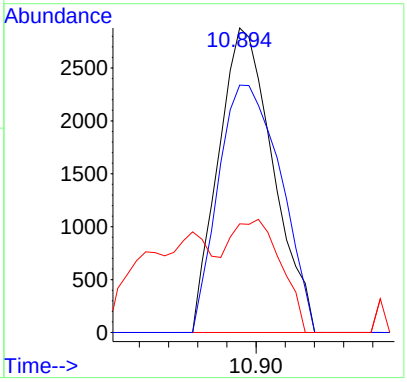




#94
1-Methylnaphthalene
Concen: 0.3058883 ppb
RT: 10.894 min Scan# 3360
Delta R.T. -0.003 min
Lab File: 1125_84.D
Acq: 26 Nov 2014 5:29 am

Tgt Ion:142 Resp: 3748

Ion	Ratio	Lower	Upper
142	100		
141	92.7	69.0	103.4
115	34.0	26.7	40.1



Environmental Science Corporation
12065 Lebanon Rd., Mt. Juliet, TN 37122

Injection Log

Instrument ID : VOCMS7
Computer Name : VOCCOMPK
Released By : Ben Baker
Date Released : 11/30/2014 12:26:16 PM
Run ID : 112914
Signature : _____

#	File ID	Sample ID	Method	WG	Product	Matrix	Account #	State	Dil.	Mult.	Injected	Misc.
1	1129_01	INSTBLK	V807K24N						1	1	11/29/14 0343	"water IS/SURR14H06449"
2	1129_01T	INSTBLK VMS								1	11/29/14 0343	
3	1129_02	ICV VMS 25 PPB 14K25331	V807K24N						1	1	11/29/14 0402	"water IS/SURR14H06449"
4	1129_03	LCS	V807K24N	WG757170	V8260	GW			1	1	11/29/14 0421	"water IS/SURR14H06449/SPK14K25332"
4	1129_03-2	LCS	V807K24N	WG757170	V8260/465	GW	WENCKSMN		1	1	11/29/14 0421	"water IS/SURR14H06449/SPK14K25332"
5	1129_04	LCSD	V807K24N	WG757170	V8260	GW			1	1	11/29/14 0441	"water IS/SURR14H06449/SPK14K25332"
5	1129_04-2	LCSD	V807K24N	WG757170	V8260/465	GW	WENCKSMN		1	1	11/29/14 0441	"water IS/SURR14H06449/SPK14K25332"
6	1129_05	MS	V807K24N	WG757170	V8260	GW			1	1	11/29/14 0529	"water IS/SURR14H06449/SPK14K25332"
6	1129_05-2	MS	V807K24N	WG757170	V8260/465	GW	WENCKSMN		1	1	11/29/14 0529	"water IS/SURR14H06449/SPK14K25332"
7	1129_06	MSD	V807K24N	WG757170	V8260	GW			1	1	11/29/14 0556	"water IS/SURR14H06449/SPK14K25332"
7	1129_06-2	MSD	V807K24N	WG757170	V8260/465	GW	WENCKSMN		1	1	11/29/14 0556	"water IS/SURR14H06449/SPK14K25332"
8	1129_07	INSTBLK	V807K24N						1	1	11/29/14 0615	"water IS/SURR14H06449"
9	1129_08	INSTBLK	V807K24N						1	1	11/29/14 0634	"water IS/SURR14H06449"
10	1129_09	BLANK	V807K24N	WG757170	V8260	GW			1	1	11/29/14 0653	"water IS/SURR14H06449"
10	1129_09-2	BLANK	V807K24N	WG757170	V8260/465	GW	WENCKSMN		1	1	11/29/14 0653	"water IS/SURR14H06449"
11	1129_10	L735524-06 (TB)	V807K24N	WG757170	V8260/465	GW	WENCKSMN	MN	1	1	11/29/14 0736	"water IS/SURR14H06449"
12	1129_11	L735554-22 (TB)	V807K24N	WG757170	V8260AZ	GW	ENTECHPAZ	AZ	1	1	11/29/14 0755	"water IS/SURR14H06449"
13	1129_12	L735565-05 (TB)	V807K24N	WG757170	V8260AP9	GW	SCSENGLCA	CA	1	1	11/29/14 0815	"water IS/SURR14H06449"
14	1129_13	L735592-03 (TB)	V807K24N	WG757170	V8260/465	GW	ANTEAMN	MN	1	1	11/29/14 0834	"water IS/SURR14H06449"
15	1129_14	L735626-14 (EB)	V807K24N	WG757170	V8260	GW	URSCORPAZ	AZ	1	1	11/29/14 0853	"water IS/SURR14H06449"
16	1129_15	L735524-01	V807K24N	WG757170	V8260/465	GW	WENCKSMN	MN	1	1	11/29/14 0913	"water IS/SURR14H06449"

Environmental Science Corporation
12065 Lebanon Rd., Mt. Juliet, TN 37122

Injection Log

Instrument ID : VOCMS7
Computer Name : VOCCOMPK
Released By : Ben Baker
Date Released : 11/30/2014 12:26:16 PM
Run ID : 112914
Signature : _____

#	File ID	Sample ID	Method	WG	Product	Matrix	Account #	State	Dil.	Mult.	Injected	Misc.
17	1129_16	L735557-01	V807K24N	WG757170	V8260AZ	GW	WASMANTAZ	AZ	1	1	11/29/14 0932	"water IS/SURR14H06449"
18	1129_17	L735663-01	V807K24N	WG757170	V8260AZ	GW	H2OENVCAZ	AZ	1	1	11/29/14 0951	"water IS/SURR14H06449"
19	1129_18	L735663-03	V807K24N	WG757170	V8260AZ	GW	H2OENVCAZ	AZ	1	1	11/29/14 1011	"water IS/SURR14H06449"
20	1129_19	L735181-02	V807K24N	WG757170	V8260	GW	URSTAZ	AZ	1	1	11/29/14 1030	"water IS/SURR14H06449"
21	1129_20	L735795-01	V807K24N	WG757170	V8260AZ	GW	WASMANTAZ	AZ	5	5	11/29/14 1049	"water IS/SURR14H06449"
22	1129_21	L735798-01	V807K24N	WG757170	V8260AZ	GW	WASMANTAZ	AZ	25	25	11/29/14 1108	"water IS/SURR14H06449"
23	1129_22	L734718-14	V807K24N	WG757170	V8260	GW	URSTAZ	AZ	20	20	11/29/14 1128	"water IS/SURR14H06449"
24	1129_23	L735554-21	V807K24N	WG757170	V8260AZ	GW	ENTECHPAZ	AZ	1	1	11/29/14 1147	"water IS/SURR14H06449"
25	1129_24	L735565-01	V807K24N	WG757170	V8260AP9	GW	SCSENGLCA	CA	1	1	11/29/14 1206	"water IS/SURR14H06449"
26	1129_25	L735565-02	V807K24N	WG757170	V8260AP9	GW	SCSENGLCA	CA	1	1	11/29/14 1226	"water IS/SURR14H06449"
27	1129_26	L735565-03	V807K24N	WG757170	V8260AP9	GW	SCSENGLCA	CA	1	1	11/29/14 1245	"water IS/SURR14H06449"
28	1129_27	L735565-04	V807K24N	WG757170	V8260AP9	GW	SCSENGLCA	CA	1	1	11/29/14 1304	"water IS/SURR14H06449"
29	1129_28	L735592-01	V807K24N	WG757170	V8260/465	GW	ANTEAMN	MN	5	5	11/29/14 1324	"water IS/SURR14H06449"
30	1129_29	L735592-02	V807K24N	WG757170	V8260/465	GW	ANTEAMN	MN	5	5	11/29/14 1343	"water IS/SURR14H06449"
31	1129_30	INSTBLK	V807K24N						1	1	11/29/14 1402	"soil IS/SURR14H06449"
32	1129_30T	INSTBLK								1	11/29/14 1402	
33	1129_31	ICV VMS 25 PPB 14K25331	V807K24N						1	1	11/29/14 1422	"soil IS/SURR14H06449"
34	1129_32	LCS	V807K24N	WG756664	V8260LGPA	SS			1	1	11/29/14 1450	"soil IS/SURR14H06449/SPK14K25332"
35	1129_33	LCSD	V807K24N	WG756664	V8260LGPA	SS			1	1	11/29/14 1509	"soil IS/SURR14H06449/SPK14K25332"
36	1129_34	MS	V807K24N	WG756664	V8260LGPA	SS			1	1	11/29/14 1552	"soil IS/SURR14H06449/SPK14K25332"
37	1129_35	MSD	V807K24N	WG756664	V8260LGPA	SS			1	1	11/29/14 1612	"soil IS/SURR14H06449/SPK14K25332"
38	1129_36	INSTBLK	V807K24N						1	1	11/29/14 1631	"soil IS/SURR14H06449"
39	1129_37	BLANK	V807K24N	WG756664	V8260LGPA	SS			1	1	11/29/14 1650	"soil water IS/SURR14H06449"

Environmental Science Corporation
12065 Lebanon Rd., Mt. Juliet, TN 37122

Injection Log

Instrument ID : VOCMS7
Computer Name : VOCCOMPK
Released By : Ben Baker
Date Released : 11/30/2014 12:26:16 PM
Run ID : 112914
Signature : _____

#	File ID	Sample ID	Method	WG	Product	Matrix	Account #	State	Dil.	Mult.	Injected	Misc.
40	1129_38	L735345-01	V807K24N	WG756664	V8260UGPA	SS	BARISETPA	PA	1	1	11/29/14 1718	"SOIL IS/SURR14H06449"
41	1129_39	L735118-01	V807K24N	WG756664	V8260UGPA	SS	TAYGEOPA	PA	1	0.8	11/29/14 1737	"SOIL IS/SURR14H06449"
42	1129_40	L735118-02	V807K24N	WG756664	V8260UGPA	SS	TAYGEOPA	PA	1	0.73	11/29/14 1757	"SOIL IS/SURR14H06449"
43	1129_41	L735118-03	V807K24N	WG756664	V8260UGPA	SS	TAYGEOPA	PA	1	0.7	11/29/14 1816	"SOIL IS/SURR14H06449"
44	1129_42	L735162-01	V807K24N	WG756664	V8260UGPA	SS	ENVMAIGPA	PA	1	0.74	11/29/14 1836	"SOIL IS/SURR14H06449"
45	1129_43	L735162-02	V807K24N	WG756664	V8260UGPA	SS	ENVMAIGPA	PA	1	0.85	11/29/14 1855	"SOIL IS/SURR14H06449"
46	1129_44	L735162-03	V807K24N	WG756664	V8260UGPA	SS	ENVMAIGPA	PA	1	0.87	11/29/14 1914	"SOIL IS/SURR14H06449"
47	1129_45	L735174-01	V807K24N	WG756664	V8260UGPA	SS	ENVMAIGPA	PA	1	0.94	11/29/14 1934	"SOIL IS/SURR14H06449"
48	1129_46	DNR L735335-01	V807K24N	WG756664					1.18	1.18	11/29/14 1953	"SOIL IS/SURR14H06449"
49	1129_47	DNR L735335-02	V807K24N	WG756664					1.1	1.1	11/29/14 2012	"SOIL IS/SURR14H06449"
50	1129_48	DNR L735335-03	V807K24N	WG756664					1.14	1.14	11/29/14 2032	"SOIL IS/SURR14H06449"
51	1129_49	L735345-02	V807K24N	WG756664	V8260UGPA	SS	BARISETPA	PA	1	0.96	11/29/14 2051	"SOIL IS/SURR14H06449"
52	1129_50	L735376-01	V807K24N	WG756664	V8260UGPA	SS	GESCPASSA	PA	1	0.91	11/29/14 2111	"SOIL IS/SURR14H06449"
53	1129_51	L735376-02	V807K24N	WG756664	V8260UGPA	SS	GESCPASSA	PA	1	0.48	11/29/14 2130	"SOIL IS/SURR14H06449"
54	1129_52	L735376-03	V807K24N	WG756664	V8260UGPA	SS	GESCPASSA	PA	1	0.48	11/29/14 2149	"SOIL IS/SURR14H06449"
55	1129_53	L735376-04	V807K24N	WG756664	V8260UGPA	SS	GESCPASSA	PA	1	0.5	11/30/14 0150	"SOIL IS/SURR14H06449"
56	1129_54	INSTBLK	V807K24N						1	1	11/30/14 0209	"SOIL IS/SURR14H06449"
57	1129_54T	INSTBLK VMS								1	11/30/14 0209	
58	1129_55	DNR CCV VMS 25 PPB 14K25331	V807K24N						1	1	11/30/14 0228	"SOIL IS/SURR14H06449"
59	1129_56	INSTBLK	V807K24N						1	1	11/30/14 0302	"SOIL IS/SURR14H06449"
60	1129_57	DNR L735376-05	V807K24N	WG756664					1	0.51	11/30/14 0321	"SOIL IS/SURR14H06449"

Environmental Science Corporation
12065 Lebanon Rd., Mt. Juliet, TN 37122

Injection Log

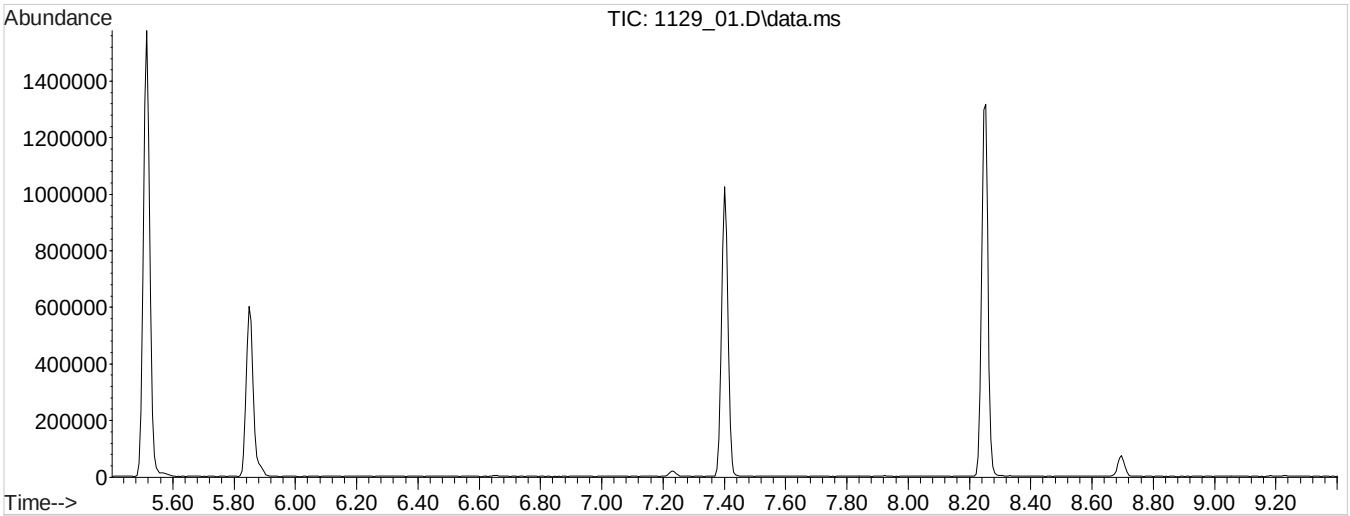
Instrument ID : VOCMS7
Computer Name : VOCCOMPK
Released By : Ben Baker
Date Released : 11/30/2014 12:26:16 PM
Run ID : 112914
Signature : _____

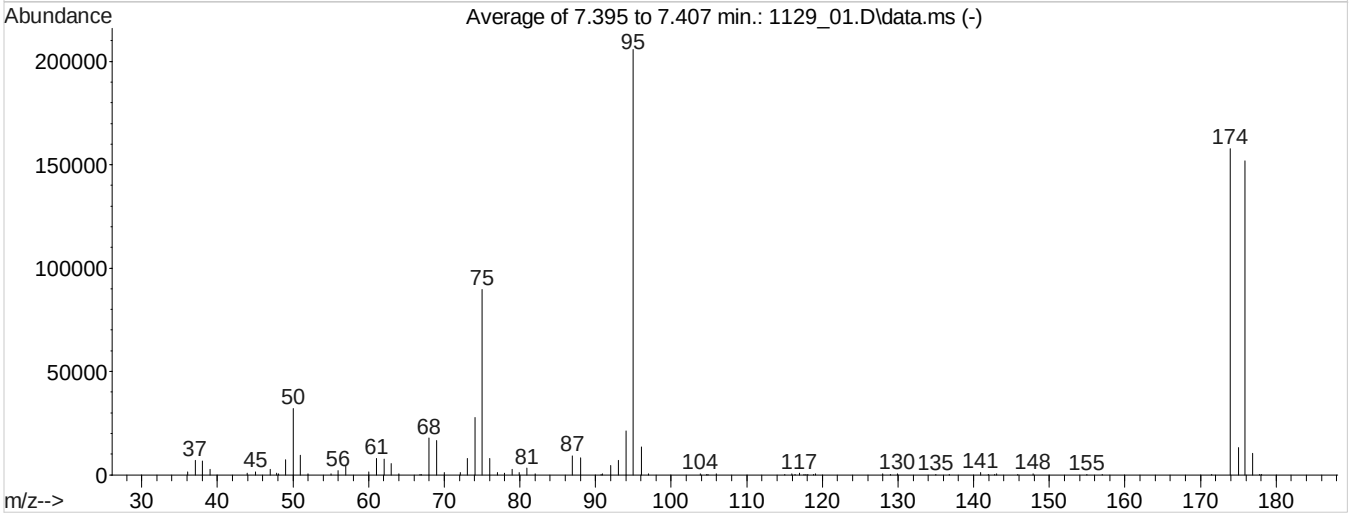
#	File ID	Sample ID	Method	WG	Product	Matrix	Account #	State	Dil.	Mult.	Injected	Misc.
61	1129_58	DNR L735376-06	V807K24N	WG756664					1	0.61	11/30/14 0340	"SOIL IS/SURR14H06449"
62	1129_59	DNR L735376-07	V807K24N	WG756664					1	0.64	11/30/14 0400	"SOIL IS/SURR14H06449"
63	1129_60	DNR L735376-08	V807K24N	WG756664					1	0.66	11/30/14 0419	"SOIL IS/SURR14H06449"

Data Path : C:\msdchem\1\data\112914\
Data File : 1129 01.D
Acq On : 29 Nov 2014 3:43 am
Operator : 644
Sample : INSTBLK VMS
Misc : water IS/SURR14H06449
ALS Vial : 1 Sample Multiplier: 1

Integration File: RTEINT.P

Method : C:\msdchem\1\methods\V807K24N.M
Title : Env. Science Corp. 8260B/6210D/624 - VOCMS07
Last Update : Tue Nov 25 14:00:56 2014





AutoFind: Scans 1202, 1203, 1204; Background Corrected with Scan 1195

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	15.6	32051	PASS
75	95	30	60	43.5	89573	PASS
95	95	100	100	100.0	205867	PASS
96	95	5	9	6.5	13366	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	150	76.6	157680	PASS
175	174	5	9	8.3	13086	PASS
176	174	95	101	96.4	152061	PASS
177	176	5	9	6.8	10273	PASS

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\112914\
Data File : 1129 02.D
Acq On : 29 Nov 2014 4:02 am
Operator : 644
Sample : ICV VMS 25 ppb 14K25331
Misc : water IS/SURR14H06449
ALS Vial : 2 Sample Multiplier: 1
InstName : VOCMS7

Quant Time: Nov 30 11:59:32 2014
Quant Method : C:\msdchem\1\methods\V807K24N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS07
QLast Update : Tue Nov 25 14:00:56 2014
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 8260-PENTAFLUOROBENZENE	4.347	168	387105	40.0000000 ppb	0.00
41) 8260-1,4-DIFLUOROBENZENE	4.682	114	679335	40.0000000 ppb	0.00
53) 8260-2-BROMO-1-CHLOROP...	5.850	79	106858	40.0000000 ppb	0.00
84) 8260-1,4-DICHLOROBENZE...	8.253	152	308470	40.0000000 ppb	0.00
96) AP9-PENTAFLUOROBENZENE	4.347	168	387105	40.0000000 ppb	0.00
114) AP9-1,4-DIFLUOROBENZENE	4.682	114	679335	40.0000000 ppb	0.00
122) AP9-2-BROMO-1-CHLOROPR...	5.850	79	106858	40.0000000 ppb	# 0.00
128) AP9-1,4-DICHLOROBENZEN...	8.253	152	308470	40.0000000 ppb	0.00
System Monitoring Compounds					
33) DIBROMOFLUOROMETHANE	4.110	111	192901	38.5756482 ppb	0.00
Spiked Amount 40.000	Range 78 - 121		Recovery = 96.44%		
46) a,a,a-Trifluorotoluene	5.053	146	375995	41.7059083 ppb	0.00
Spiked Amount 40.000	Range 85 - 114		Recovery = 104.26%		
50) TOLUENE-D8	5.515	98	823160	40.1619863 ppb	0.00
Spiked Amount 40.000	Range 89 - 111		Recovery = 100.40%		
68) 4-BROMOFLUOROBENZENE	7.401	95	302863	40.5995433 ppb	0.00
Spiked Amount 40.000	Range 71 - 126		Recovery = 101.50%		
Target Compounds					Qvalue
2) TPH (GC/MS) LOW FRACTION	4.406	TIC	2079653	No Calib	
3) PROPENE	1.670	41	22771	17.7452197 ppb	98
4) DICHLORODIFLUOROMETHANE	1.707	85	109371	19.7466662 ppb	97
5) CHLOROMETHANE	1.889	50	142551	21.5394726 ppb	99
6) VINYL CHLORIDE	1.950	62	149163	22.7582313 ppb	96
7) 1,3-BUTADIENE	1.968	39	97870	20.4294636 ppb	98
8) BROMOMETHANE	2.206	94	57461	27.1296286 ppb #	96
9) CHLOROETHANE	2.297	66	20915	21.5146971 ppb	89
10) TRICHLOROFLUOROMETHANE	2.400	101	150187	24.4392553 ppb	99
11) DICHLOROFLUOROMETHANE	2.437	67	200185	21.5546361 ppb	99
12) ETHYL ETHER	2.601	59	85664	20.2707430 ppb	97
13) ACROLEIN	2.954	56	84908	111.7806027 ppb	99
14) 1,1-DICHLOROETHENE	2.747	61	161203	22.5114991 ppb	99
15) 1,1,2-TRICHLOROTRIFLUO...	2.765	101	105311	23.1437625 ppb	96
16) ACETONE	3.124	43	197182	141.5679057 ppb	99
17) IODOMETHANE	2.857	142	703845	132.2626483 ppb	99
18) CARBON DISULFIDE	2.784	76	385069	20.5617443 ppb	99
19) METHYLENE CHLORIDE	3.106	84	113796	19.7669847 ppb	99
20) ACRYLONITRILE	3.587	53	191983	98.9555858 ppb	99
21) n-Hexane	3.234	56	109746	20.7063507 ppb	99
22) TRANS-1,2-DICHLOROETHENE	3.203	96	112694	20.1265247 ppb	98
23) METHYL TERT-BUTYL ETHER	3.246	73	300690	20.9141788 ppb	99
24) 1,1-DICHLOROETHANE	3.562	63	199557	21.4127847 ppb	100
25) VINYL ACETATE	3.672	43	926010	106.8417914 ppb	99
26) DI-ISOPROPYL ETHER	3.453	45	341971	19.4171862 ppb	97
27) 2,2-Dichloropropane	3.927	77	165764	21.6699190 ppb	99
28) CIS-1,2-DICHLOROETHENE	3.860	96	120965	20.4266860 ppb	99
29) 2-BUTANONE (MEK)	4.171	72	83637	121.4055941 ppb	100
30) BROMOCHLOROMETHANE	3.982	130	68932	22.3875351 ppb	91
31) TETRAHYDROFURAN	4.104	42	33030	19.9389485 ppb	96
32) CHLOROFORM	4.000	83	183007	20.0506192 ppb	99
34) 1,1,1-TRICHLOROETHANE	4.140	97	151107	20.6377402 ppb	98
35) CARBON TETRACHLORIDE	4.104	117	122134	22.7185875 ppb	98

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\112914\
Data File : 1129 02.D
Acq On : 29 Nov 2014 4:02 am
Operator : 644
Sample : ICV VMS 25 ppb 14K25331
Misc : water IS/SURR14H06449
ALS Vial : 2 Sample Multiplier: 1
InstName : VOCMS7

Quant Time: Nov 30 11:59:32 2014
Quant Method : C:\msdchem\1\methods\V807K24N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS07
QLast Update : Tue Nov 25 14:00:56 2014
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc Units		Dev(Min)
36)	1,1-Dichloropropene	4.207	75	161592	22.1580607 ppb		99
37)	2,2,4-TRIMETHYLPENTANE	4.250	57	472981	20.3786847 ppb		99
38)	HEPTANE	4.286	43	191816	20.4197148 ppb	#	91
39)	BENZENE	4.353	78	439693	20.0536752 ppb		100
40)	1,2-DICHLOROETHANE	4.463	62	127587	22.3548416 ppb		99
42)	TRICHLOROETHENE	4.676	130	116409	24.0043433 ppb		97
43)	1,2-DICHLOROPROPANE	4.992	62	84936	22.2807336 ppb		96
44)	DIBROMOMETHANE	4.937	93	64891	22.8903150 ppb		96
45)	BROMODICHLOROMETHANE	5.016	83	138665	21.1495654 ppb		97
47)	2-CHLOROETHYL VINYL ETHER	5.333	63	4309	232.8595861 ppb	#	96
48)	CIS-1,3-DICHLOROPROPENE	5.393	75	194042	22.5154839 ppb		100
49)	4-METHYL-2-PENTANONE (...	5.758	58	218289	106.9499349 ppb		100
51)	TOLUENE	5.545	91	482817	21.3872968 ppb		99
52)	TRANS-1,3-DICHLOROPROPENE	5.801	110	42711	22.8671122 ppb		99
54)	1,1,2-TRICHLOROETHANE	5.910	97	97112	22.3749461 ppb		99
55)	TETRACHLOROETHENE	5.801	164	88029	25.8926895 ppb		100
56)	1,3-Dichloropropane	6.099	76	169735	22.9866316 ppb		100
57)	2-HEXANONE	6.306	58	242163	121.2155191 ppb		99
58)	CHLORODIBROMOMETHANE	6.038	129	97131	24.3727156 ppb		98
59)	1,2-DIBROMOETHANE	6.215	107	101613	24.2511184 ppb		99
60)	CHLOROBENZENE	6.555	112	313328	24.3761466 ppb		99
61)	1,1,1,2-TETRACHLOROETHANE	6.592	133	92817	25.0946852 ppb	#	97
62)	ETHYLBENZENE	6.555	106	175363	24.0975076 ppb		100
63)	M&P-XYLENE	6.647	106	429862	46.6154628 ppb		100
64)	O-XYLENE	6.957	106	211899	23.5589028 ppb		100
65)	STYRENE	6.993	104	343693	23.9595410 ppb		100
66)	Bromoform	7.036	173	56012	22.9397144 ppb		98
67)	Isopropylbenzene	7.176	105	544496	24.2722723 ppb		99
69)	Bromobenzene	7.486	77	217236	22.6065621 ppb		94
70)	1,1,2,2-TETRACHLOROETHANE	7.529	83	131250	21.1858041 ppb		100
71)	1,2,3-TRICHLOROPROPANE	7.650	110	33548	23.6270244 ppb		93
72)	TRANS-1,4-DICHLORO-2-B...	7.663	53	33586	22.8701215 ppb		95
73)	n-Propylbenzene	7.480	91	637283	23.8802276 ppb		98
74)	4-ETHYLTOLUENE	7.559	105	535800	24.1547189 ppb		98
75)	2-Chlorotoluene	7.614	126	118944	24.2071312 ppb		95
76)	4-Chlorotoluene	7.742	91	385087	23.4339807 ppb		97
77)	1,3,5-Trimethylbenzene	7.620	105	435340	24.1060864 ppb		99
78)	tert-Butylbenzene	7.869	119	376901	24.9600107 ppb		99
79)	1,2,4-Trimethylbenzene	7.918	105	442363	23.4458270 ppb		99
80)	sec-Butylbenzene	8.003	105	593306	24.1277237 ppb		99
81)	1,3-DICHLOROBENZENE	8.198	146	241626	24.6996533 ppb		100
82)	p-Isopropyltoluene	8.107	119	481942	24.6697303 ppb		99
83)	DICYCLOPENTADIENE	8.113	66	495698	22.5958694 ppb		97
85)	1,4-DICHLOROBENZENE	8.265	146	236006	24.3697919 ppb		98
86)	1,2,3-TRIMETHYLBENZENE	8.265	105	430408	22.8596783 ppb		100
87)	1,2-DICHLOROBENZENE	8.599	146	228116	24.0381205 ppb		100
88)	n-Butylbenzene	8.441	91	461288	23.3963554 ppb		99
89)	1,2-Dibromo-3-chloropr...	9.238	157	27635	24.0406582 ppb		99
90)	1,2,4-Trichlorobenzene	9.798	180	156610	26.4522239 ppb		99
91)	HEXACHLORO-1,3-BUTADIENE	9.755	225	72447	25.7696220 ppb		98
92)	Naphthalene	10.072	128	409525	23.7774769 ppb		99
93)	1,2,3-Trichlorobenzene	10.224	180	136115	25.6707059 ppb		100
94)	1-Methylnaphthalene	10.887	142	185508	24.3664212 ppb		99
95)	2-Methylnaphthalene	11.002	142	151222	25.2689067 ppb		99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\112914\
Data File : 1129 02.D
Acq On : 29 Nov 2014 4:02 am
Operator : 644
Sample : ICV VMS 25 ppb 14K25331
Misc : water IS/SURR14H06449
ALS Vial : 2 Sample Multiplier: 1
InstName : VOCMS7

Quant Time: Nov 30 11:59:32 2014
Quant Method : C:\msdchem\1\methods\V807K24N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS07
QLast Update : Tue Nov 25 14:00:56 2014
Response via : Initial Calibration

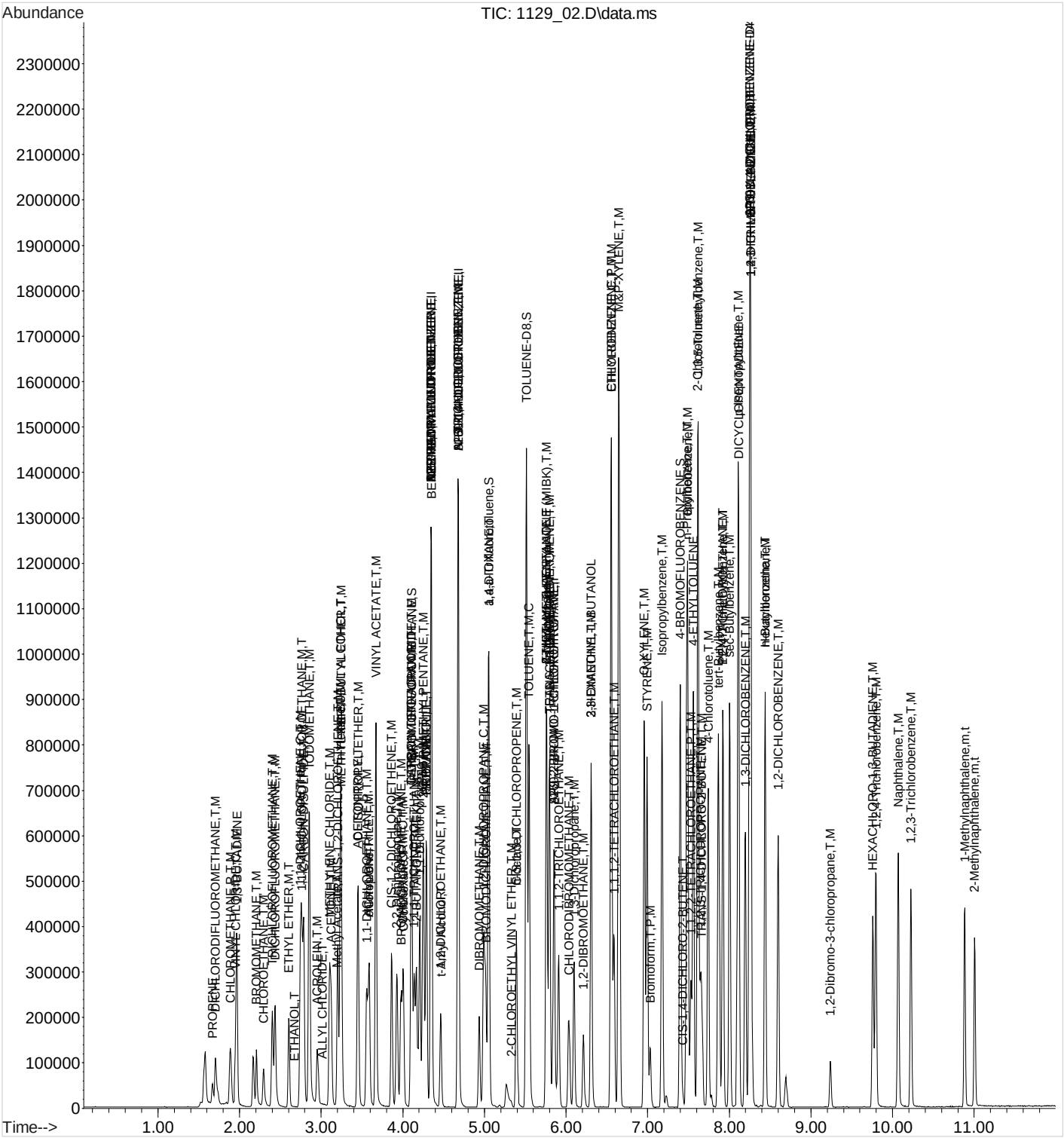
	Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
97)	ETHANOL	2.674	45	515	6.7067974 ppb #	40
98)	Bromoethane	0.000		0	N.D.	
99)	2-PROPANOL	0.000		0	N.D.	
100)	Methyl Acetate	3.191	43	5875	1.8450631 ppb #	83
101)	ACETONITRILE	3.447	41	52271	80.2846837 ppb #	41
102)	ALLYL CHLORIDE	3.015	76	842	0.3475775 ppb #	1
103)	tert-BUTYL ALCOHOL	3.240	59	884	0.9947247 ppb #	1
104)	chloroprene	3.587	53	191983	45.0041151 ppb #	18
105)	ETHYL TERT-BUTYL ETHER	0.000		0	N.D.	
106)	PROPIONITRILE	4.286	54	825	1.2209417 ppb #	1
107)	Ethyl Acetate	4.055	43	742	N.D.	
108)	METHACRYLONITRILE	4.347	67	941	0.4693852 ppb #	1
109)	Cyclohexane	4.006	84	6002	0.9725467 ppb #	1
110)	tert-butyl formate	4.207	59	537	N.D.	
111)	ISOBUTANOL	4.286	43	191396	661.4321349 ppb #	99
112)	t-Amyl Alcohol	4.469	59	585	1.1181748 ppb #	18
113)	TERT-AMYL METHYL ETHER	4.347	73	7538	0.5889508 ppb #	1
115)	N-BUTANOL	4.682	56	10784	62.0885732 ppb #	26
116)	Methyl Cyclohexane	4.676	83	7990	N.D.	
117)	2-nitropropane	5.758	43	503144	394.2592714 ppb #	38
118)	METHYL METHACRYLATE	5.126	41	539	N.D.	
119)	1,4-DIOXANE	5.053	88	2965	49.6821357 ppb #	100
120)	n-octane	5.393	85	2610	0.6297910 ppb #	26
121)	3,3-DIMETHYL-1-BUTANOL	6.306	57	83305	153.7797958 ppb #	42
123)	ETHYL METHACRYLATE	5.758	69	3665	0.6066616 ppb #	1
124)	CIS-1,4-DICHLORO-2-BUTENE	7.431	53	1570	1.1377327 ppb #	18
125)	Cyclohexanone	7.656	55	587	No Calib #	
126)	PENTACHLOROETHANE	7.918	117	15119	5.2524697 ppb #	17
127)	Hexachloroethane	8.441	117	3599	1.0616762 ppb #	60

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\112914\
Data File : 1129 02.D
Acq On : 29 Nov 2014 4:02 am
Operator : 644
Sample : ICV VMS 25 ppb 14K25331
Misc : water IS/SURR14H06449
ALS Vial : 2 Sample Multiplier: 1
InstName : VOCMS7

Quant Time: Nov 30 11:59:32 2014
Quant Method : C:\msdchem\1\methods\V807K24N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS07
QLast Update : Tue Nov 25 14:00:56 2014
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\112914\
Data File : 1129 03.D
Acq On : 29 Nov 2014 4:21 am
Operator : 644
Sample : LCS 1x WG757170
Misc : water IS/SURR14H06449/SPK14K25332
ALS Vial : 3 Sample Multiplier: 1
InstName : VOCMS7

Quant Time: Nov 30 11:59:49 2014
Quant Method : C:\msdchem\1\methods\V807K24N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS07
QLast Update : Tue Nov 25 14:00:56 2014
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 8260-PENTAFLUOROBENZENE	4.347	168	380235	40.0000000 ppb	0.00
41) 8260-1,4-DIFLUOROBENZENE	4.682	114	671931	40.0000000 ppb	0.00
53) 8260-2-BROMO-1-CHLOROP...	5.850	79	101417	40.0000000 ppb	0.00
84) 8260-1,4-DICHLOROBENZE...	8.247	152	294067	40.0000000 ppb	0.00
96) AP9-PENTAFLUOROBENZENE	4.347	168	380235	40.0000000 ppb	0.00
114) AP9-1,4-DIFLUOROBENZENE	4.682	114	671931	40.0000000 ppb	0.00
122) AP9-2-BROMO-1-CHLOROPR...	5.850	79	101417	40.0000000 ppb	# 0.00
128) AP9-1,4-DICHLOROBENZEN...	8.247	152	294067	40.0000000 ppb	0.00
System Monitoring Compounds					
33) DIBROMOFLUOROMETHANE	4.110	111	190728	38.8302243 ppb	0.00
Spiked Amount 40.000	Range 78 - 121		Recovery = 97.08%		
46) a,a,a-Trifluorotoluene	5.053	146	368319	41.3046503 ppb	0.00
Spiked Amount 40.000	Range 85 - 114		Recovery = 103.26%		
50) TOLUENE-D8	5.515	98	811675	40.0380029 ppb	0.00
Spiked Amount 40.000	Range 89 - 111		Recovery = 100.10%		
68) 4-BROMOFLUOROBENZENE	7.401	95	300219	42.4042498 ppb	0.00
Spiked Amount 40.000	Range 71 - 126		Recovery = 106.01%		
Target Compounds					Qvalue
2) TPH (GC/MS) LOW FRACTION	4.406	TIC	2693204	No Calib	
3) PROPENE	1.670	41	24102	19.1218123 ppb	97
4) DICHLORODIFLUOROMETHANE	1.707	85	116499	21.4136396 ppb	100
5) CHLOROMETHANE	1.889	50	153565	23.6229283 ppb	100
6) VINYL CHLORIDE	1.950	62	157087	24.4002533 ppb	97
7) 1,3-BUTADIENE	1.962	39	104873	22.2868021 ppb	97
8) BROMOMETHANE	2.206	94	63562	30.5523706 ppb	95
9) CHLOROETHANE	2.297	66	23577	24.6912230 ppb	94
10) TRICHLOROFLUOROMETHANE	2.400	101	159260	26.3839022 ppb	98
11) DICHLOROFLUOROMETHANE	2.437	67	211923	23.2307882 ppb	98
12) ETHYL ETHER	2.601	59	94811	22.8405594 ppb	99
13) ACROLEIN	2.954	56	88124	118.1105598 ppb	98
14) 1,1-DICHLOROETHENE	2.747	61	171293	24.3527271 ppb	98
15) 1,1,2-TRICHLOROTRIFLUO...	2.765	101	111586	24.9658656 ppb	99
16) ACETONE	3.124	43	192823	140.9396102 ppb	99
17) IODOMETHANE	2.850	142	770455	147.3954757 ppb	99
18) CARBON DISULFIDE	2.783	76	412169	22.4064685 ppb	100
19) METHYLENE CHLORIDE	3.106	84	121455	21.4785777 ppb	99
20) ACRYLONITRILE	3.587	53	213517	112.0435059 ppb	99
21) n-Hexane	3.234	56	115178	22.1238696 ppb	99
22) TRANS-1,2-DICHLOROETHENE	3.203	96	124007	22.5471103 ppb	99
23) METHYL TERT-BUTYL ETHER	3.246	73	327652	23.2012480 ppb	98
24) 1,1-DICHLOROETHANE	3.556	63	214049	23.3827764 ppb	100
25) VINYL ACETATE	3.672	43	881220	103.5110038 ppb	99
26) DI-ISOPROPYL ETHER	3.447	45	378328	21.8696681 ppb	99
27) 2,2-Dichloropropane	3.927	77	178595	23.7691174 ppb	97
28) CIS-1,2-DICHLOROETHENE	3.860	96	132809	22.8319172 ppb	99
29) 2-BUTANONE (MEK)	4.171	72	85116	125.7847955 ppb	99
30) BROMOCHLOROMETHANE	3.982	130	75685	25.0248744 ppb	91
31) TETRAHYDROFURAN	4.104	42	35793	21.9972540 ppb	95
32) CHLOROFORM	4.000	83	199683	22.2729566 ppb	100
34) 1,1,1-TRICHLOROETHANE	4.140	97	162483	22.5923900 ppb	98
35) CARBON TETRACHLORIDE	4.104	117	131597	24.9211125 ppb	89

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\112914\
Data File : 1129 03.D
Acq On : 29 Nov 2014 4:21 am
Operator : 644
Sample : LCS 1x WG757170
Misc : water IS/SURR14H06449/SPK14K25332
ALS Vial : 3 Sample Multiplier: 1
InstName : VOCMS7

Quant Time: Nov 30 11:59:49 2014
Quant Method : C:\msdchem\1\methods\V807K24N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS07
QLast Update : Tue Nov 25 14:00:56 2014
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units		Dev(Min)
36) 1,1-Dichloropropene	4.207	75	169964	23.7271472 ppb		99
37) 2,2,4-TRIMETHYLPENTANE	4.250	57	500282	21.9444158 ppb		99
38) HEPTANE	4.286	43	205747	22.2984690 ppb	#	68
39) BENZENE	4.353	78	473689	21.9945163 ppb		100
40) 1,2-DICHLOROETHANE	4.463	62	137049	24.4465586 ppb		99
42) TRICHLOROETHENE	4.675	130	128129	26.7122222 ppb		96
43) 1,2-DICHLOROPROPANE	4.992	62	90985	24.1305263 ppb		97
44) DIBROMOMETHANE	4.937	93	71083	25.3508405 ppb		96
45) BROMODICHLOROMETHANE	5.010	83	152838	23.5681367 ppb		96
47) 2-CHLOROETHYL VINYL ETHER	5.333	63	3366	178.5515401 ppb	#	95
48) CIS-1,3-DICHLOROPROPENE	5.393	75	209047	24.5238581 ppb		98
49) 4-METHYL-2-PENTANONE (...	5.758	58	236279	117.0396757 ppb		100
51) TOLUENE	5.545	91	521199	23.3419014 ppb		100
52) TRANS-1,3-DICHLOROPROPENE	5.795	110	45003	24.3597239 ppb		96
54) 1,1,2-TRICHLOROETHANE	5.910	97	102939	24.9899465 ppb		99
55) TETRACHLOROETHENE	5.801	164	92120	28.5497037 ppb		99
56) 1,3-Dichloropropane	6.099	76	179472	25.6092532 ppb		99
57) 2-HEXANONE	6.306	58	256821	135.4494520 ppb		100
58) CHLORODIBROMOMETHANE	6.038	129	106815	28.2406435 ppb		99
59) 1,2-DIBROMOETHANE	6.215	107	109647	27.5724611 ppb		98
60) CHLOROBENZENE	6.555	112	342714	28.0927319 ppb		97
61) 1,1,1,2-TETRACHLOROETHANE	6.592	133	98963	28.1918359 ppb	#	97
62) ETHYLBENZENE	6.555	106	190641	27.6023938 ppb		97
63) M&P-XYLENE	6.647	106	458553	52.3946286 ppb		99
64) O-XYLENE	6.957	106	230552	27.0079319 ppb		98
65) STYRENE	6.993	104	367982	27.0290427 ppb		100
66) Bromoform	7.036	173	61801	26.6685075 ppb		98
67) Isopropylbenzene	7.176	105	575027	27.0084873 ppb		99
69) Bromobenzene	7.492	77	234616	25.7250740 ppb		95
70) 1,1,2,2-TETRACHLOROETHANE	7.529	83	139356	23.7010504 ppb		99
71) 1,2,3-TRICHLOROPROPANE	7.650	110	36365	26.9849904 ppb		97
72) TRANS-1,4-DICHLORO-2-B...	7.663	53	35271	25.3060431 ppb		96
73) n-Propylbenzene	7.480	91	677219	26.7381616 ppb		98
74) 4-ETHYLTOLUENE	7.559	105	560135	26.6065320 ppb		98
75) 2-Chlorotoluene	7.620	126	127922	27.4310421 ppb		93
76) 4-Chlorotoluene	7.742	91	405858	26.0230144 ppb		98
77) 1,3,5-Trimethylbenzene	7.620	105	463632	27.0500343 ppb		100
78) tert-Butylbenzene	7.869	119	399604	27.8832625 ppb		99
79) 1,2,4-Trimethylbenzene	7.918	105	469444	26.2160246 ppb		99
80) sec-Butylbenzene	8.003	105	630458	27.0140720 ppb		99
81) 1,3-DICHLOROBENZENE	8.198	146	255406	27.5089852 ppb		99
82) p-Isopropyltoluene	8.107	119	511556	27.5904695 ppb		99
83) DICYCLOPENTADIENE	8.113	66	531901	25.5469453 ppb		97
85) 1,4-DICHLOROBENZENE	8.265	146	249302	27.0035699 ppb		94
86) 1,2,3-TRIMETHYLBENZENE	8.265	105	459567	25.6038490 ppb		100
87) 1,2-DICHLOROBENZENE	8.599	146	246026	27.1952095 ppb		99
88) n-Butylbenzene	8.441	91	483386	25.7179746 ppb		99
89) 1,2-Dibromo-3-chloropr...	9.238	157	30261	27.6144758 ppb		99
90) 1,2,4-Trichlorobenzene	9.798	180	163978	29.0532638 ppb		99
91) HEXACHLORO-1,3-BUTADIENE	9.755	225	78783	29.3959025 ppb		98
92) Naphthalene	10.072	128	454617	27.6883874 ppb		100
93) 1,2,3-Trichlorobenzene	10.224	180	145591	28.8026863 ppb		100
94) 1-Methylnaphthalene	10.887	142	215409	29.6797058 ppb		99
95) 2-Methylnaphthalene	11.002	142	176632	30.9604670 ppb		99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\112914\
Data File : 1129 03.D
Acq On : 29 Nov 2014 4:21 am
Operator : 644
Sample : LCS 1x WG757170
Misc : water IS/SURR14H06449/SPK14K25332
ALS Vial : 3 Sample Multiplier: 1
InstName : VOCMS7

Quant Time: Nov 30 11:59:49 2014
Quant Method : C:\msdchem\1\methods\V807K24N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS07
QLast Update : Tue Nov 25 14:00:56 2014
Response via : Initial Calibration

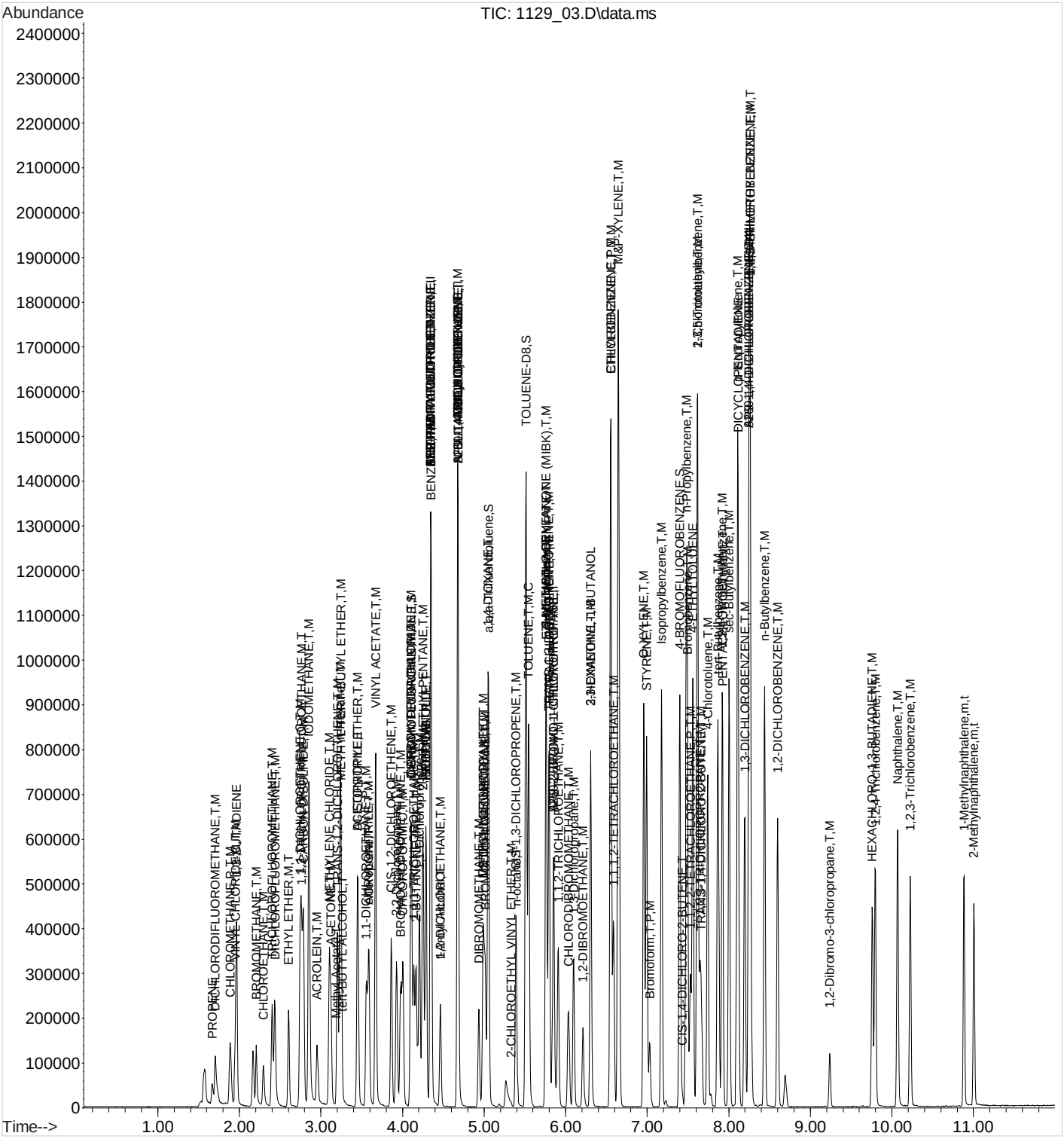
	Compound	R.T.	QIon	Response	Conc Units		Dev(Min)
97)	ETHANOL	0.000		0	N.D.		
98)	Bromoethane	0.000		0	N.D.		
99)	2-PROPANOL	0.000		0	N.D.		
100)	Methyl Acetate	3.185	43	7483	2.3925211 ppb	#	96
101)	ACETONITRILE	3.447	41	56493	88.3371169 ppb	#	41
102)	ALLYL CHLORIDE	0.000		0	N.D.		
103)	tert-BUTYL ALCOHOL	3.264	59	1339	1.5339384 ppb	#	57
104)	chloroprene	3.587	53	213517	50.9563841 ppb	#	18
105)	ETHYL TERT-BUTYL ETHER	0.000		0	N.D.		
106)	PROPIONITRILE	4.286	54	1596	2.4046426 ppb	#	1
107)	Ethyl Acetate	4.049	43	876	N.D.		
108)	METHACRYLONITRILE	4.347	67	976	0.4956399 ppb	#	1
109)	Cyclohexane	4.018	84	810	N.D.		
110)	tert-butyl formate	0.000		0	N.D.		
111)	ISOBUTANOL	4.286	43	205747	723.8734291 ppb	#	99
112)	t-Amyl Alcohol	4.463	59	616	1.1987020 ppb	#	18
113)	TERT-AMYL METHYL ETHER	4.347	73	7837	0.6233751 ppb	#	1
115)	N-BUTANOL	4.682	56	10511	61.1836172 ppb	#	27
116)	Methyl Cyclohexane	4.675	83	9393	0.3158089 ppb	#	47
117)	2-nitropropane	5.758	43	546656	433.0749346 ppb	#	38
118)	METHYL METHACRYLATE	4.992	41	58077	14.8183059 ppb	#	100
119)	1,4-DIOXANE	5.047	88	3362	56.9550950 ppb	#	100
120)	n-octane	5.399	85	2763	0.6740563 ppb	#	34
121)	3,3-DIMETHYL-1-BUTANOL	6.306	57	87447	163.2046163 ppb	#	42
123)	ETHYL METHACRYLATE	5.764	69	3779	0.6590915 ppb	#	1
124)	CIS-1,4-DICHLORO-2-BUTENE	7.431	53	1889	1.4423440 ppb	#	17
125)	Cyclohexanone	7.663	55	626	No Calib #		
126)	PENTACHLOROETHANE	7.924	117	16585	6.0708884 ppb	#	14
127)	Hexachloroethane	8.581	117	698	N.D.		

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\112914\
Data File : 1129 03.D
Acq On : 29 Nov 2014 4:21 am
Operator : 644
Sample : LCS 1x WG757170
Misc : water IS/SURR14H06449/SPK14K25332
ALS Vial : 3 Sample Multiplier: 1
InstName : VOCMS7

Quant Time: Nov 30 11:59:49 2014
Quant Method : C:\msdchem\1\methods\V807K24N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS07
QLast Update : Tue Nov 25 14:00:56 2014
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\112914\
Data File : 1129 04.D
Acq On : 29 Nov 2014 4:41 am
Operator : 644
Sample : LCSD 1x WG757170
Misc : water IS/SURR14H06449/SPK14K25332
ALS Vial : 4 Sample Multiplier: 1
InstName : VOCMS7

Quant Time: Nov 30 12:00:03 2014
Quant Method : C:\msdchem\1\methods\V807K24N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS07
QLast Update : Tue Nov 25 14:00:56 2014
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 8260-PENTAFLUOROBENZENE	4.347	168	381911	40.0000000 ppb	0.00
41) 8260-1,4-DIFLUOROBENZENE	4.682	114	669538	40.0000000 ppb	0.00
53) 8260-2-BROMO-1-CHLOROP...	5.850	79	103294	40.0000000 ppb	0.00
84) 8260-1,4-DICHLOROBENZE...	8.253	152	294945	40.0000000 ppb	0.00
96) AP9-PENTAFLUOROBENZENE	4.347	168	381911	40.0000000 ppb	0.00
114) AP9-1,4-DIFLUOROBENZENE	4.682	114	669538	40.0000000 ppb	0.00
122) AP9-2-BROMO-1-CHLOROPR...	5.850	79	103294	40.0000000 ppb	# 0.00
128) AP9-1,4-DICHLOROBENZEN...	8.253	152	294945	40.0000000 ppb	0.00
System Monitoring Compounds					
33) DIBROMOFLUOROMETHANE	4.110	111	190222	38.5572553 ppb	0.00
Spiked Amount 40.000	Range 78 - 121		Recovery = 96.39%		
46) a,a,a-Trifluorotoluene	5.053	146	368534	41.4764745 ppb	0.00
Spiked Amount 40.000	Range 85 - 114		Recovery = 103.69%		
50) TOLUENE-D8	5.515	98	815660	40.3783762 ppb	0.00
Spiked Amount 40.000	Range 89 - 111		Recovery = 100.95%		
68) 4-BROMOFLUOROBENZENE	7.401	95	298441	41.3871347 ppb	0.00
Spiked Amount 40.000	Range 71 - 126		Recovery = 103.47%		
Target Compounds					Qvalue
2) TPH (GC/MS) LOW FRACTION	4.406	TIC	2488028	No Calib	
3) PROPENE	1.670	41	23731	18.7448483 ppb	93
4) DICHLORODIFLUOROMETHANE	1.707	85	113367	20.7465014 ppb	99
5) CHLOROMETHANE	1.889	50	147851	22.6441320 ppb	99
6) VINYL CHLORIDE	1.950	62	152984	23.6586535 ppb	97
7) 1,3-BUTADIENE	1.962	39	103429	21.8834764 ppb	96
8) BROMOMETHANE	2.206	94	60545	28.9744744 ppb	97
9) CHLOROETHANE	2.297	66	21705	22.6310014 ppb	86
10) TRICHLOROFLUOROMETHANE	2.400	101	157945	26.0512233 ppb	99
11) DICHLOROFLUOROMETHANE	2.431	67	213171	23.2650451 ppb	99
12) ETHYL ETHER	2.601	59	90464	21.6977009 ppb	97
13) ACROLEIN	2.954	56	85493	114.0814431 ppb	97
14) 1,1-DICHLOROETHENE	2.747	61	167946	23.7721014 ppb	97
15) 1,1,2-TRICHLOROTRIFLUO...	2.765	101	106989	23.8323007 ppb	96
16) ACETONE	3.124	43	187969	136.7887512 ppb	99
17) IODOMETHANE	2.850	142	766324	145.9618050 ppb	99
18) CARBON DISULFIDE	2.784	76	410137	22.1981591 ppb	99
19) METHYLENE CHLORIDE	3.106	84	121095	21.3209355 ppb	98
20) ACRYLONITRILE	3.587	53	207123	108.2112669 ppb	99
21) n-Hexane	3.234	56	114029	21.8070438 ppb	97
22) TRANS-1,2-DICHLOROETHENE	3.203	96	122490	22.1735508 ppb	99
23) METHYL TERT-BUTYL ETHER	3.246	73	318631	22.4634508 ppb	98
24) 1,1-DICHLOROETHANE	3.556	63	213685	23.2405731 ppb	100
25) VINYL ACETATE	3.672	43	829474	97.0051688 ppb	99
26) DI-ISOPROPYL ETHER	3.447	45	367016	21.1226609 ppb	98
27) 2,2-Dichloropropane	3.927	77	176067	23.3298339 ppb	98
28) CIS-1,2-DICHLOROETHENE	3.860	96	128784	22.0427973 ppb	97
29) 2-BUTANONE (MEK)	4.171	72	83972	123.5496053 ppb	98
30) BROMOCHLOROMETHANE	3.982	130	73113	24.0683666 ppb	92
31) TETRAHYDROFURAN	4.104	42	35105	21.4797523 ppb	97
32) CHLOROFORM	4.000	83	190812	21.1900697 ppb	96
34) 1,1,1-TRICHLOROETHANE	4.140	97	161001	22.2880844 ppb	97
35) CARBON TETRACHLORIDE	4.104	117	128544	24.2361242 ppb	98

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\112914\
Data File : 1129 04.D
Acq On : 29 Nov 2014 4:41 am
Operator : 644
Sample : LCSD 1x WG757170
Misc : water IS/SURR14H06449/SPK14K25332
ALS Vial : 4 Sample Multiplier: 1
InstName : VOCMS7

Quant Time: Nov 30 12:00:03 2014
Quant Method : C:\msdchem\1\methods\V807K24N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS07
QLast Update : Tue Nov 25 14:00:56 2014
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units		Dev(Min)
36) 1,1-Dichloropropene	4.207	75	169824	23.6035633 ppb		99
37) 2,2,4-TRIMETHYLPENTANE	4.250	57	494904	21.6132478 ppb		99
38) HEPTANE	4.286	43	203455	21.9533006 ppb	#	69
39) BENZENE	4.347	78	467765	21.6241359 ppb		100
40) 1,2-DICHLOROETHANE	4.463	62	136569	24.2540302 ppb		98
42) TRICHLOROETHENE	4.676	130	126940	26.5589269 ppb		97
43) 1,2-DICHLOROPROPANE	4.992	62	87754	23.3568011 ppb		98
44) DIBROMOMETHANE	4.937	93	68671	24.5781637 ppb		96
45) BROMODICHLOROMETHANE	5.010	83	148696	23.0113785 ppb		98
47) 2-CHLOROETHYL VINYL ETHER	5.333	63	3508	187.9179592 ppb	#	90
48) CIS-1,3-DICHLOROPROPENE	5.393	75	206389	24.2985775 ppb		98
49) 4-METHYL-2-PENTANONE (...	5.758	58	232542	115.6002668 ppb		99
51) TOLUENE	5.545	91	510940	22.9642363 ppb		100
52) TRANS-1,3-DICHLOROPROPENE	5.795	110	43933	23.8655366 ppb		96
54) 1,1,2-TRICHLOROETHANE	5.910	97	102327	24.3899712 ppb		97
55) TETRACHLOROETHENE	5.801	164	91856	27.9505829 ppb		99
56) 1,3-Dichloropropane	6.099	76	179531	25.1521623 ppb		99
57) 2-HEXANONE	6.306	58	252985	131.0017675 ppb		98
58) CHLORODIBROMOMETHANE	6.032	129	103471	26.8594215 ppb		99
59) 1,2-DIBROMOETHANE	6.215	107	108920	26.8919364 ppb		100
60) CHLOROBENZENE	6.555	112	330430	26.5936080 ppb		98
61) 1,1,1,2-TETRACHLOROETHANE	6.586	133	97274	27.2071434 ppb	#	99
62) ETHYLBENZENE	6.549	106	188898	26.8530404 ppb		97
63) M&P-XYLENE	6.647	106	453580	50.8846495 ppb		100
64) O-XYLENE	6.957	106	227994	26.2229482 ppb		98
65) STYRENE	6.993	104	361934	26.1017205 ppb		99
66) Bromoform	7.030	173	62139	26.3271066 ppb		98
67) Isopropylbenzene	7.176	105	574868	26.5103720 ppb		99
69) Bromobenzene	7.486	77	230821	24.8490614 ppb		96
70) 1,1,2,2-TETRACHLOROETHANE	7.529	83	135265	22.5872326 ppb		100
71) 1,2,3-TRICHLOROPROPANE	7.650	110	34473	25.1161704 ppb		98
72) TRANS-1,4-DICHLORO-2-B...	7.663	53	35601	25.0786602 ppb		97
73) n-Propylbenzene	7.480	91	671931	26.0473024 ppb		98
74) 4-ETHYLTOLUENE	7.559	105	559315	26.0848108 ppb		99
75) 2-Chlorotoluene	7.620	126	124648	26.2432758 ppb		96
76) 4-Chlorotoluene	7.742	91	408255	25.7010382 ppb		98
77) 1,3,5-Trimethylbenzene	7.620	105	459431	26.3178482 ppb		100
78) tert-Butylbenzene	7.869	119	393272	26.9427828 ppb		99
79) 1,2,4-Trimethylbenzene	7.918	105	463929	25.4372540 ppb		99
80) sec-Butylbenzene	8.003	105	620804	26.1170465 ppb		99
81) 1,3-DICHLOROBENZENE	8.192	146	255278	26.9955715 ppb		99
82) p-Isopropyltoluene	8.107	119	506371	26.8145429 ppb		99
83) DICYCLOPENTADIENE	8.113	66	524739	24.7449841 ppb		97
85) 1,4-DICHLOROBENZENE	8.265	146	249582	26.9534233 ppb		94
86) 1,2,3-TRIMETHYLBENZENE	8.265	105	452112	25.1135269 ppb		99
87) 1,2-DICHLOROBENZENE	8.599	146	241828	26.6515971 ppb		99
88) n-Butylbenzene	8.441	91	484103	25.6794503 ppb		99
89) 1,2-Dibromo-3-chloropr...	9.238	157	30953	28.1618725 ppb		99
90) 1,2,4-Trichlorobenzene	9.792	180	163910	28.9547651 ppb		99
91) HEXACHLORO-1,3-BUTADIENE	9.755	225	78706	29.2797509 ppb		98
92) Naphthalene	10.072	128	448598	27.2404688 ppb		100
93) 1,2,3-Trichlorobenzene	10.224	180	145246	28.6488966 ppb		99
94) 1-Methylnaphthalene	10.881	142	217601	29.8924758 ppb		100
95) 2-Methylnaphthalene	11.002	142	179531	31.3749339 ppb		99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\112914\
Data File : 1129 04.D
Acq On : 29 Nov 2014 4:41 am
Operator : 644
Sample : LCSD 1x WG757170
Misc : water IS/SURR14H06449/SPK14K25332
ALS Vial : 4 Sample Multiplier: 1
InstName : VOCMS7

Quant Time: Nov 30 12:00:03 2014
Quant Method : C:\msdchem\1\methods\V807K24N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS07
QLast Update : Tue Nov 25 14:00:56 2014
Response via : Initial Calibration

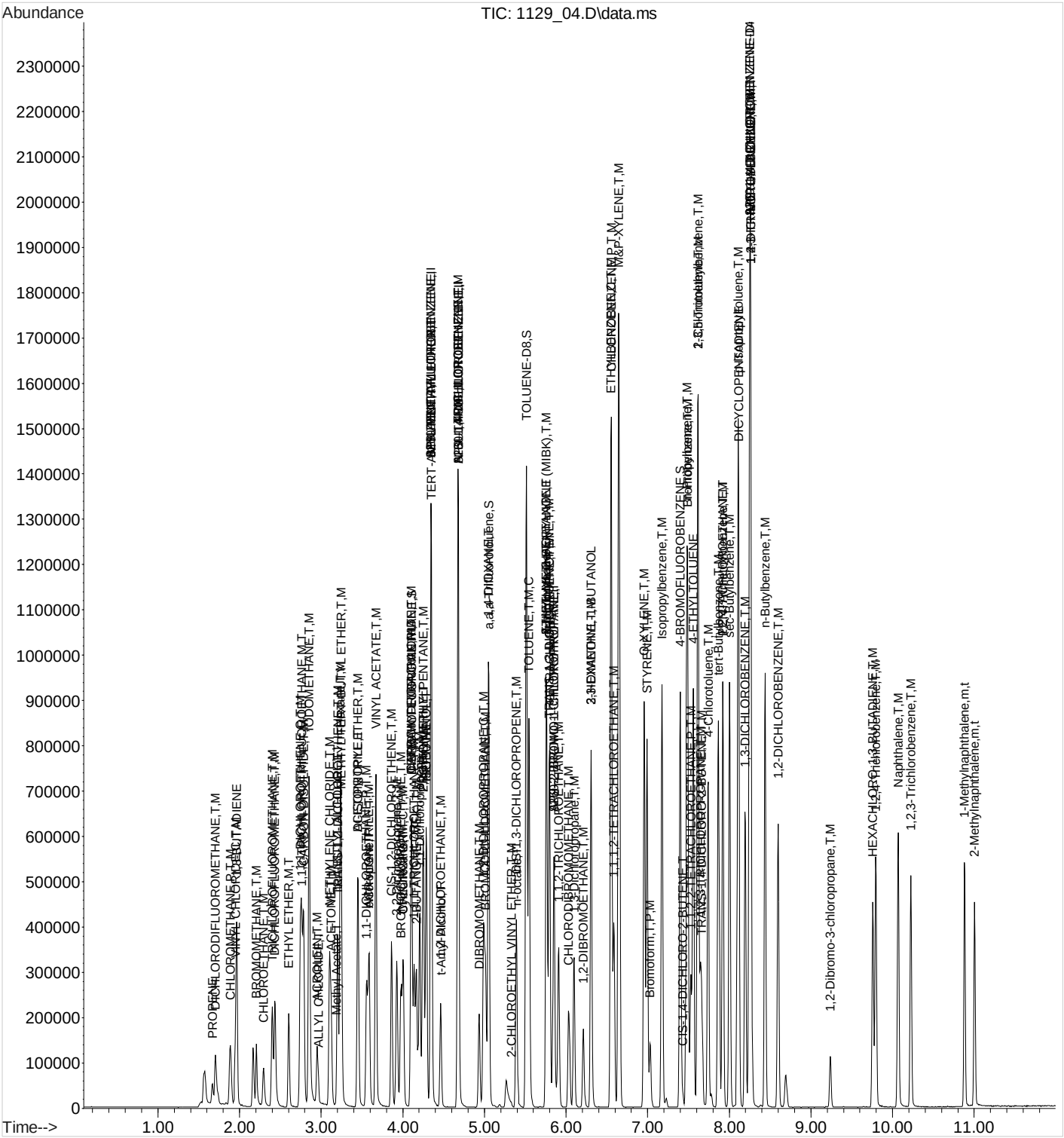
	Compound	R.T.	QIon	Response	Conc Units		Dev(Min)
97)	ETHANOL	0.000		0	N.D.		
98)	Bromoethane	0.000		0	N.D.		
99)	2-PROPANOL	0.000		0	N.D.		
100)	Methyl Acetate	3.185	43	7413	2.3597389 ppb	#	86
101)	ACETONITRILE	3.447	41	55832	86.9203950 ppb	#	40
102)	ALLYL CHLORIDE	2.972	76	916	0.3832672 ppb	#	1
103)	tert-BUTYL ALCOHOL	3.197	59	5099	5.8157038 ppb	#	57
104)	chloroprene	3.587	53	207123	49.2135161 ppb	#	18
105)	ETHYL TERT-BUTYL ETHER	0.000		0	N.D.		
106)	PROPIONITRILE	4.250	54	1215	1.8225685 ppb	#	1
107)	Ethyl Acetate	4.061	43	594	N.D.		
108)	METHACRYLONITRILE	4.347	67	563	N.D.		
109)	Cyclohexane	4.000	84	5374	0.8826301 ppb	#	1
110)	tert-butyl formate	4.207	59	542	N.D.		
111)	ISOBUTANOL	4.286	43	203455	712.6682556 ppb	#	99
112)	t-Amyl Alcohol	4.469	59	655	1.2690003 ppb	#	18
113)	TERT-AMYL METHYL ETHER	4.353	73	7796	0.6173925 ppb	#	1
115)	N-BUTANOL	4.682	56	10504	61.3614019 ppb	#	22
116)	Methyl Cyclohexane	4.676	83	8379	N.D.		
117)	2-nitropropane	5.758	43	533816	424.4142560 ppb	#	38
118)	METHYL METHACRYLATE	5.120	41	577	N.D.		
119)	1,4-DIOXANE	5.047	88	3317	56.3935962 ppb	#	100
120)	n-octane	5.399	85	3008	0.7364488 ppb	#	28
121)	3,3-DIMETHYL-1-BUTANOL	6.306	57	85780	160.6656417 ppb	#	41
123)	ETHYL METHACRYLATE	5.758	69	3879	0.6642388 ppb	#	1
124)	CIS-1,4-DICHLORO-2-BUTENE	7.431	53	1731	1.2976860 ppb	#	19
125)	Cyclohexanone	7.663	55	505	No Calib #		
126)	PENTACHLOROETHANE	7.918	117	16298	5.8574252 ppb	#	14
127)	Hexachloroethane	8.575	117	646	N.D.		

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\112914\
Data File : 1129 04.D
Acq On : 29 Nov 2014 4:41 am
Operator : 644
Sample : LCSD 1x WG757170
Misc : water IS/SURR14H06449/SPK14K25332
ALS Vial : 4 Sample Multiplier: 1
InstName : VOCMS7

Quant Time: Nov 30 12:00:03 2014
Quant Method : C:\msdchem\1\methods\V807K24N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS07
QLast Update : Tue Nov 25 14:00:56 2014
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\112914\
Data File : 1129 05.D
Acq On : 29 Nov 2014 5:29 am
Operator : 644
Sample : MS 1x WG757170 L735524-01
Misc : water IS/SURR14H06449/SPK14K25332
ALS Vial : 5 Sample Multiplier: 1
InstName : VOCMS7

Quant Time: Nov 30 12:00:20 2014
Quant Method : C:\msdchem\1\methods\V807K24N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS07
QLast Update : Tue Nov 25 14:00:56 2014
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 8260-PENTAFLUOROBENZENE	4.347	168	396826	40.0000000 ppb	0.00
41) 8260-1,4-DIFLUOROBENZENE	4.681	114	706115	40.0000000 ppb	0.00
53) 8260-2-BROMO-1-CHLOROP...	5.850	79	107375	40.0000000 ppb	0.00
84) 8260-1,4-DICHLOROBENZE...	8.253	152	311751	40.0000000 ppb	0.00
96) AP9-PENTAFLUOROBENZENE	4.347	168	396826	40.0000000 ppb	0.00
114) AP9-1,4-DIFLUOROBENZENE	4.681	114	706115	40.0000000 ppb	0.00
122) AP9-2-BROMO-1-CHLOROPR...	5.850	79	107375	40.0000000 ppb	# 0.00
128) AP9-1,4-DICHLOROBENZEN...	8.253	152	311751	40.0000000 ppb	0.00
System Monitoring Compounds					
33) DIBROMOFLUOROMETHANE	4.110	111	201641	39.3356434 ppb	0.00
Spiked Amount 40.000	Range 78 - 121		Recovery = 98.34%		
46) a,a,a-Trifluorotoluene	5.053	146	387939	41.3987768 ppb	0.00
Spiked Amount 40.000	Range 85 - 114		Recovery = 103.50%		
50) TOLUENE-D8	5.515	98	854657	40.1172664 ppb	0.00
Spiked Amount 40.000	Range 89 - 111		Recovery = 100.29%		
68) 4-BROMOFLUOROBENZENE	7.401	95	315307	42.0641779 ppb	0.00
Spiked Amount 40.000	Range 71 - 126		Recovery = 105.16%		
Target Compounds					Qvalue
2) TPH (GC/MS) LOW FRACTION	4.406	TIC	2334173	No Calib	
3) PROPENE	1.670	41	25381	19.2946395 ppb	94
4) DICHLORODIFLUOROMETHANE	1.707	85	121334	21.3699142 ppb	97
5) CHLOROMETHANE	1.889	50	153535	22.6308493 ppb	99
6) VINYL CHLORIDE	1.950	62	157606	23.4573423 ppb	97
7) 1,3-BUTADIENE	1.962	39	108312	22.0552818 ppb	95
8) BROMOMETHANE	2.205	94	66573	30.6617867 ppb	94
9) CHLOROETHANE	2.297	66	24520	24.6051771 ppb	98
10) TRICHLOROFLUOROMETHANE	2.400	101	163630	25.9745013 ppb	99
11) DICHLOROFLUOROMETHANE	2.437	67	217732	22.8696799 ppb	98
12) ETHYL ETHER	2.601	59	94579	21.8320591 ppb	98
13) ACROLEIN	2.954	56	94374	121.1989508 ppb	100
14) 1,1-DICHLOROETHENE	2.747	61	177850	24.2277915 ppb	100
15) 1,1,2-TRICHLOROTRIFLUO...	2.765	101	113590	24.3516834 ppb	96
16) ACETONE	3.124	43	142757	99.9824131 ppb	99
17) IODOMETHANE	2.856	142	804342	147.4448448 ppb	99
18) CARBON DISULFIDE	2.783	76	419074	21.8293486 ppb	100
19) METHYLENE CHLORIDE	3.106	84	124251	21.0543571 ppb	98
20) ACRYLONITRILE	3.586	53	217498	109.3607474 ppb	99
21) n-Hexane	3.234	56	118217	21.7582249 ppb	99
22) TRANS-1,2-DICHLOROETHENE	3.203	96	125465	21.8584443 ppb	98
23) METHYL TERT-BUTYL ETHER	3.246	73	327739	22.2371240 ppb	100
24) 1,1-DICHLOROETHANE	3.562	63	214659	22.4690105 ppb	99
25) VINYL ACETATE	3.672	43	1079790	121.5327842 ppb	99
26) DI-ISOPROPYL ETHER	3.453	45	379183	21.0026713 ppb	99
27) 2,2-Dichloropropane	3.927	77	182505	23.2739715 ppb	98
28) CIS-1,2-DICHLOROETHENE	3.860	96	134425	22.1435318 ppb	99
29) 2-BUTANONE (MEK)	4.170	72	76419	108.2107143 ppb	99
30) BROMOCHLOROMETHANE	3.982	130	75094	23.7913617 ppb	92
31) TETRAHYDROFURAN	4.104	42	35753	21.0540102 ppb	97
32) CHLOROFORM	4.000	83	201509	21.5369003 ppb	99
34) 1,1,1-TRICHLOROETHANE	4.140	97	165990	22.1150611 ppb	98
35) CARBON TETRACHLORIDE	4.104	117	150665	27.3391988 ppb	90

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\112914\
Data File : 1129 05.D
Acq On : 29 Nov 2014 5:29 am
Operator : 644
Sample : MS 1x WG757170 L735524-01
Misc : water IS/SURR14H06449/SPK14K25332
ALS Vial : 5 Sample Multiplier: 1
InstName : VOCMS7

Quant Time: Nov 30 12:00:20 2014
Quant Method : C:\msdchem\1\methods\V807K24N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS07
QLast Update : Tue Nov 25 14:00:56 2014
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc Units		Dev(Min)
36)	1,1-Dichloropropene	4.207	75	177070	23.6856627 ppb		99
37)	2,2,4-TRIMETHYLPENTANE	4.250	57	530208	22.2847309 ppb		99
38)	HEPTANE	4.286	43	207022	21.4985913 ppb		98
39)	BENZENE	4.353	78	481281	21.4127183 ppb		100
40)	1,2-DICHLOROETHANE	4.463	62	139145	23.7827153 ppb		99
42)	TRICHLOROETHENE	4.675	130	126694	25.1343623 ppb		98
43)	1,2-DICHLOROPROPANE	4.992	62	90953	22.9542582 ppb		99
44)	DIBROMOMETHANE	4.937	93	72392	24.5678091 ppb		97
45)	BROMODICHLOROMETHANE	5.010	83	154361	22.6506530 ppb		98
47)	2-CHLOROETHYL VINYL ETHER	5.326	63	4082	209.9704142 ppb	#	90
48)	CIS-1,3-DICHLOROPROPENE	5.393	75	209617	23.4002554 ppb		99
49)	4-METHYL-2-PENTANONE (...	5.764	58	233939	110.2706299 ppb		98
51)	TOLUENE	5.545	91	528508	22.5233747 ppb		100
52)	TRANS-1,3-DICHLOROPROPENE	5.795	110	45619	23.4977294 ppb		95
54)	1,1,2-TRICHLOROETHANE	5.910	97	106367	24.3893302 ppb		98
55)	TETRACHLOROETHENE	5.801	164	96011	28.1045252 ppb		99
56)	1,3-Dichloropropane	6.099	76	183234	24.6952745 ppb		100
57)	2-HEXANONE	6.306	58	240696	119.9011022 ppb		98
58)	CHLORODIBROMOMETHANE	6.038	129	105260	26.2853214 ppb		99
59)	1,2-DIBROMOETHANE	6.215	107	111089	26.3850195 ppb		99
60)	CHLOROBENZENE	6.555	112	340178	26.3375840 ppb		99
61)	1,1,1,2-TETRACHLOROETHANE	6.592	133	101063	27.1925713 ppb	#	96
62)	ETHYLBENZENE	6.555	106	194518	26.6009912 ppb		97
63)	M&P-XYLENE	6.646	106	470544	50.7814444 ppb		100
64)	O-XYLENE	6.957	106	233627	25.8495538 ppb		98
65)	STYRENE	6.993	104	377936	26.2198337 ppb		100
66)	Bromoform	7.036	173	62856	25.6187261 ppb		97
67)	Isopropylbenzene	7.176	105	595127	26.4015400 ppb		99
69)	Bromobenzene	7.492	77	238240	24.6729609 ppb		96
70)	1,1,2,2-TETRACHLOROETHANE	7.529	83	146874	23.5936117 ppb		100
71)	1,2,3-TRICHLOROPROPANE	7.650	110	35907	25.1666484 ppb		90
72)	TRANS-1,4-DICHLORO-2-B...	7.662	53	38259	25.9267253 ppb		95
73)	n-Propylbenzene	7.480	91	695838	25.9488512 ppb		99
74)	4-ETHYLTOLUENE	7.559	105	575743	25.8304404 ppb		98
75)	2-Chlorotoluene	7.620	126	130173	26.3648657 ppb		96
76)	4-Chlorotoluene	7.742	91	421281	25.5130833 ppb		98
77)	1,3,5-Trimethylbenzene	7.620	105	473270	26.0802035 ppb		100
78)	tert-Butylbenzene	7.869	119	407460	26.8538354 ppb		99
79)	1,2,4-Trimethylbenzene	7.918	105	481952	25.4211043 ppb		98
80)	sec-Butylbenzene	8.003	105	646494	26.1641105 ppb		98
81)	1,3-DICHLOROBENZENE	8.198	146	264599	26.9177810 ppb		100
82)	p-Isopropyltoluene	8.107	119	526873	26.8398098 ppb		99
83)	DICYCLOPENTADIENE	8.113	66	540281	24.5095563 ppb		98
85)	1,4-DICHLOROBENZENE	8.265	146	257040	26.2624094 ppb		95
86)	1,2,3-TRIMETHYLBENZENE	8.265	105	464008	24.3848633 ppb		98
87)	1,2-DICHLOROBENZENE	8.599	146	248412	25.9013506 ppb		100
88)	n-Butylbenzene	8.441	91	510254	25.6075217 ppb		99
89)	1,2-Dibromo-3-chloropr...	9.244	157	31788	27.3624618 ppb		99
90)	1,2,4-Trichlorobenzene	9.798	180	173058	28.9227417 ppb		100
91)	HEXACHLORO-1,3-BUTADIENE	9.761	225	80032	28.1680245 ppb		98
92)	Naphthalene	10.072	128	458162	26.3214308 ppb		99
93)	1,2,3-Trichlorobenzene	10.224	180	150849	28.1500608 ppb		99
94)	1-Methylnaphthalene	10.887	142	223145	29.0015589 ppb		97
95)	2-Methylnaphthalene	11.008	142	182731	30.2126475 ppb		99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\112914\
Data File : 1129 05.D
Acq On : 29 Nov 2014 5:29 am
Operator : 644
Sample : MS 1x WG757170 L735524-01
Misc : water IS/SURR14H06449/SPK14K25332
ALS Vial : 5 Sample Multiplier: 1
InstName : VOCMS7

Quant Time: Nov 30 12:00:20 2014
Quant Method : C:\msdchem\1\methods\V807K24N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS07
QLast Update : Tue Nov 25 14:00:56 2014
Response via : Initial Calibration

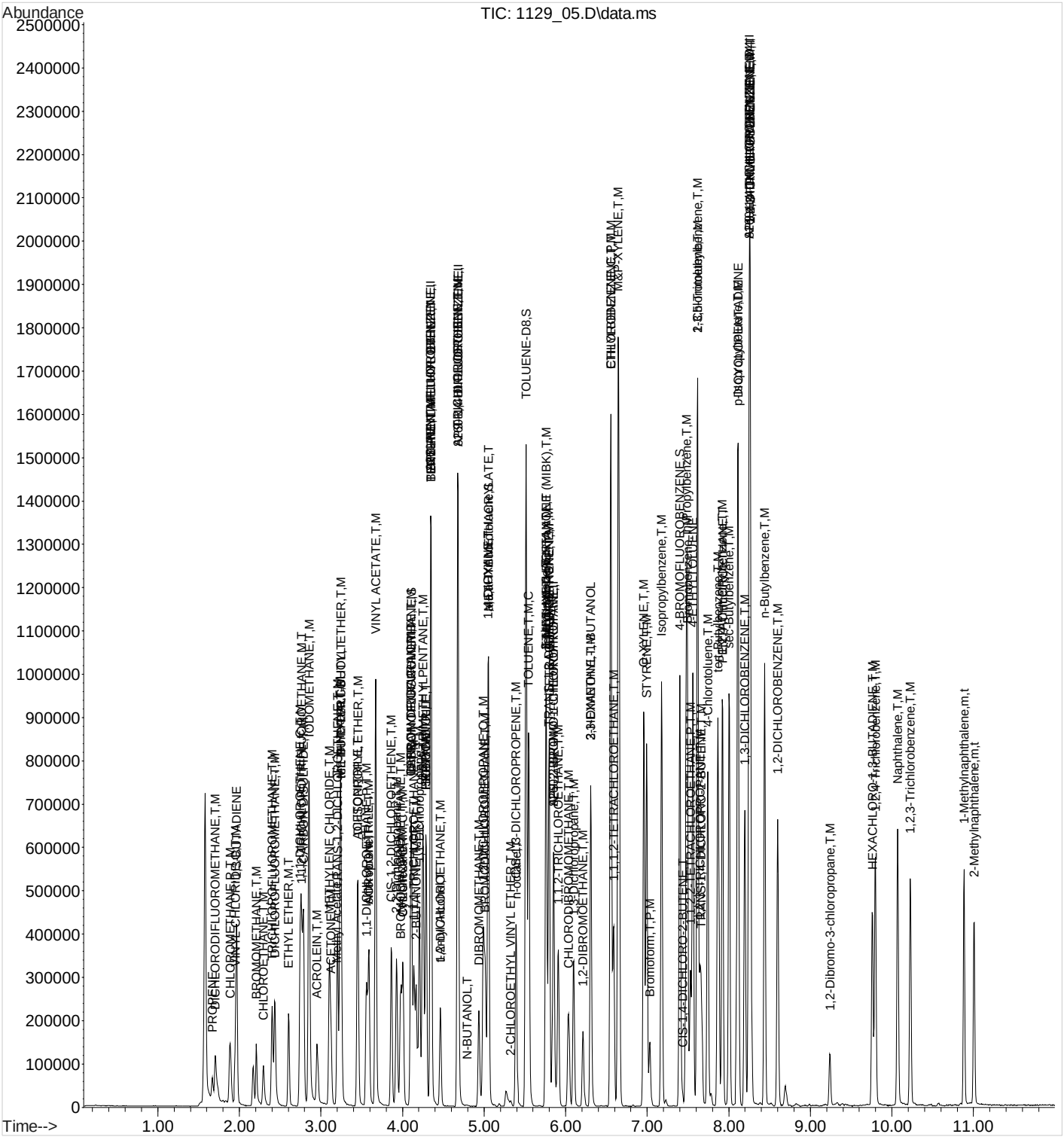
	Compound	R.T.	QIon	Response	Conc Units		Dev(Min)
97)	ETHANOL	0.000		0	N.D.		
98)	Bromoethane	0.000		0	N.D.		
99)	2-PROPANOL	0.000		0	N.D.		
100)	Methyl Acetate	3.191	43	5631	1.7251129 ppb	#	74
101)	ACETONITRILE	3.447	41	55454	83.0870676 ppb	#	39
102)	ALLYL CHLORIDE	0.000		0	N.D.		
103)	tert-BUTYL ALCOHOL	3.246	59	990	1.0867121 ppb	#	1
104)	chloroprene	3.586	53	217498	49.7362895 ppb	#	18
105)	ETHYL TERT-BUTYL ETHER	3.666	59	821	N.D.		
106)	PROPIONITRILE	4.286	54	1972	2.8469284 ppb	#	1
107)	Ethyl Acetate	4.049	43	907	N.D.		
108)	METHACRYLONITRILE	4.353	67	592	N.D.		
109)	Cyclohexane	4.000	84	4243	0.6706812 ppb	#	19
110)	tert-butyl formate	0.000		0	N.D.		
111)	ISOBUTANOL	4.286	43	206488	696.1068588 ppb	#	99
112)	t-Amyl Alcohol	4.463	59	557	1.0385746 ppb	#	18
113)	TERT-AMYL METHYL ETHER	4.353	73	7861	0.5991414 ppb	#	1
115)	N-BUTANOL	4.797	56	1686	9.3389473 ppb	#	90
116)	Methyl Cyclohexane	4.675	83	9097	N.D.		
117)	2-nitropropane	5.758	43	546913	412.3029257 ppb	#	38
118)	METHYL METHACRYLATE	5.053	41	2158	0.5239563 ppb	#	100
119)	1,4-DIOXANE	5.047	88	3320	53.5207507 ppb	#	100
120)	n-octane	5.399	85	2824	0.6555853 ppb	#	25
121)	3,3-DIMETHYL-1-BUTANOL	6.306	57	82771	146.9991984 ppb	#	41
123)	ETHYL METHACRYLATE	5.764	69	4009	0.6604082 ppb	#	1
124)	CIS-1,4-DICHLORO-2-BUTENE	7.437	53	1961	1.4142366 ppb	#	14
125)	Cyclohexanone	7.662	55	1259	No Calib #		
126)	PENTACHLOROETHANE	7.924	117	16842	5.8228824 ppb	#	14
127)	Hexachloroethane	8.581	117	866	N.D.		

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\112914\
Data File : 1129 05.D
Acq On : 29 Nov 2014 5:29 am
Operator : 644
Sample : MS 1x WG757170 L735524-01
Misc : water IS/SURR14H06449/SPK14K25332
ALS Vial : 5 Sample Multiplier: 1
InstName : VOCMS7

Quant Time: Nov 30 12:00:20 2014
Quant Method : C:\msdchem\1\methods\V807K24N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS07
QLast Update : Tue Nov 25 14:00:56 2014
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\112914\
Data File : 1129 06.D
Acq On : 29 Nov 2014 5:56 am
Operator : 644
Sample : MSD 1x WG757170 L735524-01
Misc : water IS/SURR14H06449/SPK14K25332
ALS Vial : 6 Sample Multiplier: 1
InstName : VOCMS7

Quant Time: Nov 30 12:00:35 2014
Quant Method : C:\msdchem\1\methods\V807K24N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS07
QLast Update : Tue Nov 25 14:00:56 2014
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 8260-PENTAFLUOROBENZENE	4.353	168	378314	40.0000000 ppb	0.00
41) 8260-1,4-DIFLUOROBENZENE	4.681	114	662642	40.0000000 ppb	0.00
53) 8260-2-BROMO-1-CHLOROP...	5.850	79	102821	40.0000000 ppb	0.00
84) 8260-1,4-DICHLOROBENZE...	8.253	152	300402	40.0000000 ppb	0.00
96) AP9-PENTAFLUOROBENZENE	4.353	168	378314	40.0000000 ppb	0.00
114) AP9-1,4-DIFLUOROBENZENE	4.681	114	662642	40.0000000 ppb	0.00
122) AP9-2-BROMO-1-CHLOROPR...	5.850	79	102821	40.0000000 ppb	# 0.00
128) AP9-1,4-DICHLOROBENZEN...	8.253	152	300402	40.0000000 ppb	0.00
System Monitoring Compounds					
33) DIBROMOFLUOROMETHANE	4.110	111	189605	38.7976041 ppb	0.00
Spiked Amount 40.000	Range 78 - 121		Recovery = 96.99%		
46) a,a,a-Trifluorotoluene	5.053	146	365723	41.5884581 ppb	0.00
Spiked Amount 40.000	Range 85 - 114		Recovery = 103.97%		
50) TOLUENE-D8	5.515	98	810641	40.5475410 ppb	0.00
Spiked Amount 40.000	Range 89 - 111		Recovery = 101.37%		
68) 4-BROMOFLUOROBENZENE	7.401	95	303263	42.2493054 ppb	0.00
Spiked Amount 40.000	Range 71 - 126		Recovery = 105.62%		
Target Compounds					Qvalue
2) TPH (GC/MS) LOW FRACTION	4.406	TIC	2448699	No Calib	
3) PROPENE	1.670	41	24491	19.5290971 ppb	93
4) DICHLORODIFLUOROMETHANE	1.707	85	112586	20.7994743 ppb	99
5) CHLOROMETHANE	1.889	50	145336	22.4705845 ppb	99
6) VINYL CHLORIDE	1.950	62	149513	23.3417128 ppb	97
7) 1,3-BUTADIENE	1.968	39	100457	21.4567503 ppb	97
8) BROMOMETHANE	2.205	94	66692	32.2196470 ppb #	90
9) CHLOROETHANE	2.297	66	22205	23.3724647 ppb	92
10) TRICHLOROFLUOROMETHANE	2.400	101	156547	26.0661412 ppb	98
11) DICHLOROFLUOROMETHANE	2.437	67	208673	22.9906786 ppb	99
12) ETHYL ETHER	2.601	59	92455	22.3860819 ppb	97
13) ACROLEIN	2.954	56	97257	131.0132055 ppb	99
14) 1,1-DICHLOROETHENE	2.747	61	167974	24.0021270 ppb	100
15) 1,1,2-TRICHLOROTRIFLUO...	2.765	101	109169	24.5491200 ppb	97
16) ACETONE	3.124	43	146346	107.5114612 ppb	99
17) IODOMETHANE	2.856	142	744170	143.0898111 ppb	99
18) CARBON DISULFIDE	2.783	76	400760	21.8968747 ppb	100
19) METHYLENE CHLORIDE	3.106	84	118735	21.1041835 ppb	98
20) ACRYLONITRILE	3.586	53	221343	116.7400029 ppb	100
21) n-Hexane	3.234	56	112808	21.7786589 ppb	98
22) TRANS-1,2-DICHLOROETHENE	3.203	96	119891	21.9094234 ppb	100
23) METHYL TERT-BUTYL ETHER	3.246	73	321706	22.8958811 ppb	98
24) 1,1-DICHLOROETHANE	3.562	63	207809	22.8163885 ppb	99
25) VINYL ACETATE	3.672	43	1072233	126.5875579 ppb	100
26) DI-ISOPROPYL ETHER	3.453	45	359607	20.8930345 ppb	98
27) 2,2-Dichloropropane	3.927	77	174452	23.3356224 ppb	98
28) CIS-1,2-DICHLOROETHENE	3.866	96	129821	22.4315612 ppb	97
29) 2-BUTANONE (MEK)	4.170	72	79047	117.4091683 ppb	99
30) BROMOCHLOROMETHANE	3.982	130	72999	24.2593231 ppb	91
31) TETRAHYDROFURAN	4.104	42	37324	23.0546337 ppb	98
32) CHLOROFORM	4.006	83	191467	21.4649751 ppb	98
34) 1,1,1-TRICHLOROETHANE	4.140	97	157146	21.9612601 ppb	99
35) CARBON TETRACHLORIDE	4.104	117	128611	24.4793132 ppb	99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\112914\
Data File : 1129 06.D
Acq On : 29 Nov 2014 5:56 am
Operator : 644
Sample : MSD 1x WG757170 L735524-01
Misc : water IS/SURR14H06449/SPK14K25332
ALS Vial : 6 Sample Multiplier: 1
InstName : VOCMS7

Quant Time: Nov 30 12:00:35 2014
Quant Method : C:\msdchem\1\methods\V807K24N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS07
QLast Update : Tue Nov 25 14:00:56 2014
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units		Dev(Min)
36) 1,1-Dichloropropene	4.207	75	170637	23.9420573 ppb		100
37) 2,2,4-TRIMETHYLPENTANE	4.250	57	573087	25.2655863 ppb		99
38) HEPTANE	4.286	43	202467	22.0544107 ppb		100
39) BENZENE	4.353	78	454685	21.2193179 ppb		100
40) 1,2-DICHLOROETHANE	4.462	62	133203	23.8811669 ppb		99
42) TRICHLOROETHENE	4.675	130	122402	25.8759805 ppb		97
43) 1,2-DICHLOROPROPANE	4.992	62	86594	23.2879100 ppb		100
44) DIBROMOMETHANE	4.937	93	68580	24.8010355 ppb		95
45) BROMODICHLOROMETHANE	5.016	83	147823	23.1143473 ppb		97
47) 2-CHLOROETHYL VINYL ETHER	5.332	63	1052	39.1957097 ppb	#	50
48) CIS-1,3-DICHLOROPROPENE	5.393	75	203501	24.2079003 ppb		99
49) 4-METHYL-2-PENTANONE (...	5.764	58	242675	121.8929935 ppb		99
51) TOLUENE	5.545	91	514895	23.3828288 ppb		99
52) TRANS-1,3-DICHLOROPROPENE	5.801	110	44427	24.3850473 ppb		99
54) 1,1,2-TRICHLOROETHANE	5.910	97	102324	24.5014522 ppb		100
55) TETRACHLOROETHENE	5.801	164	92795	28.3662018 ppb		97
56) 1,3-Dichloropropane	6.099	76	178824	25.1683621 ppb		100
57) 2-HEXANONE	6.306	58	248480	129.2608758 ppb		99
58) CHLORODIBROMOMETHANE	6.038	129	103247	26.9245666 ppb		99
59) 1,2-DIBROMOETHANE	6.215	107	107701	26.7132945 ppb		99
60) CHLOROBENZENE	6.555	112	333795	26.9880118 ppb		97
61) 1,1,1,2-TETRACHLOROETHANE	6.592	133	95923	26.9526949 ppb	#	98
62) ETHYLBENZENE	6.555	106	186799	26.6768117 ppb		99
63) M&P-XYLENE	6.646	106	454824	51.2589300 ppb		98
64) O-XYLENE	6.957	106	224475	25.9369767 ppb		98
65) STYRENE	6.993	104	362103	26.2340382 ppb		99
66) Bromoform	7.036	173	64085	27.2764931 ppb		99
67) Isopropylbenzene	7.176	105	571425	26.4728194 ppb		100
69) Bromobenzene	7.492	77	232421	25.1364133 ppb		96
70) 1,1,2,2-TETRACHLOROETHANE	7.529	83	146373	24.5545417 ppb		100
71) 1,2,3-TRICHLOROPROPANE	7.650	110	36265	26.5433232 ppb	#	75
72) TRANS-1,4-DICHLORO-2-B...	7.662	53	38817	27.4699187 ppb		97
73) n-Propylbenzene	7.480	91	672279	26.1806781 ppb		98
74) 4-ETHYLTOLUENE	7.559	105	562037	26.3323370 ppb		98
75) 2-Chlorotoluene	7.620	126	125902	26.6292314 ppb		95
76) 4-Chlorotoluene	7.742	91	413886	26.1753902 ppb		99
77) 1,3,5-Trimethylbenzene	7.620	105	455996	26.2412420 ppb		99
78) tert-Butylbenzene	7.869	119	394428	27.1462868 ppb		99
79) 1,2,4-Trimethylbenzene	7.918	105	465997	25.6681814 ppb		100
80) sec-Butylbenzene	8.003	105	620320	26.2167355 ppb		98
81) 1,3-DICHLOROBENZENE	8.198	146	259490	27.5672241 ppb		100
82) p-Isopropyltoluene	8.107	119	513782	27.3321458 ppb		99
83) DICYCLOPENTADIENE	8.113	66	523169	24.7844399 ppb		97
85) 1,4-DICHLOROBENZENE	8.265	146	248391	26.3375120 ppb		96
86) 1,2,3-TRIMETHYLBENZENE	8.265	105	450540	24.5715893 ppb		99
87) 1,2-DICHLOROBENZENE	8.599	146	243109	26.3060663 ppb		99
88) n-Butylbenzene	8.441	91	503242	26.2097601 ppb		98
89) 1,2-Dibromo-3-chloropr...	9.244	157	32565	29.0902921 ppb		99
90) 1,2,4-Trichlorobenzene	9.798	180	173642	30.1167146 ppb		100
91) HEXACHLORO-1,3-BUTADIENE	9.755	225	79263	28.9513127 ppb		99
92) Naphthalene	10.072	128	480802	28.6656457 ppb		99
93) 1,2,3-Trichlorobenzene	10.224	180	156435	30.2953423 ppb		99
94) 1-Methylnaphthalene	10.887	142	245077	33.0553511 ppb		98
95) 2-Methylnaphthalene	11.002	142	200151	34.3430887 ppb		98

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\112914\
Data File : 1129 06.D
Acq On : 29 Nov 2014 5:56 am
Operator : 644
Sample : MSD 1x WG757170 L735524-01
Misc : water IS/SURR14H06449/SPK14K25332
ALS Vial : 6 Sample Multiplier: 1
InstName : VOCMS7

Quant Time: Nov 30 12:00:35 2014
Quant Method : C:\msdchem\1\methods\V807K24N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS07
QLast Update : Tue Nov 25 14:00:56 2014
Response via : Initial Calibration

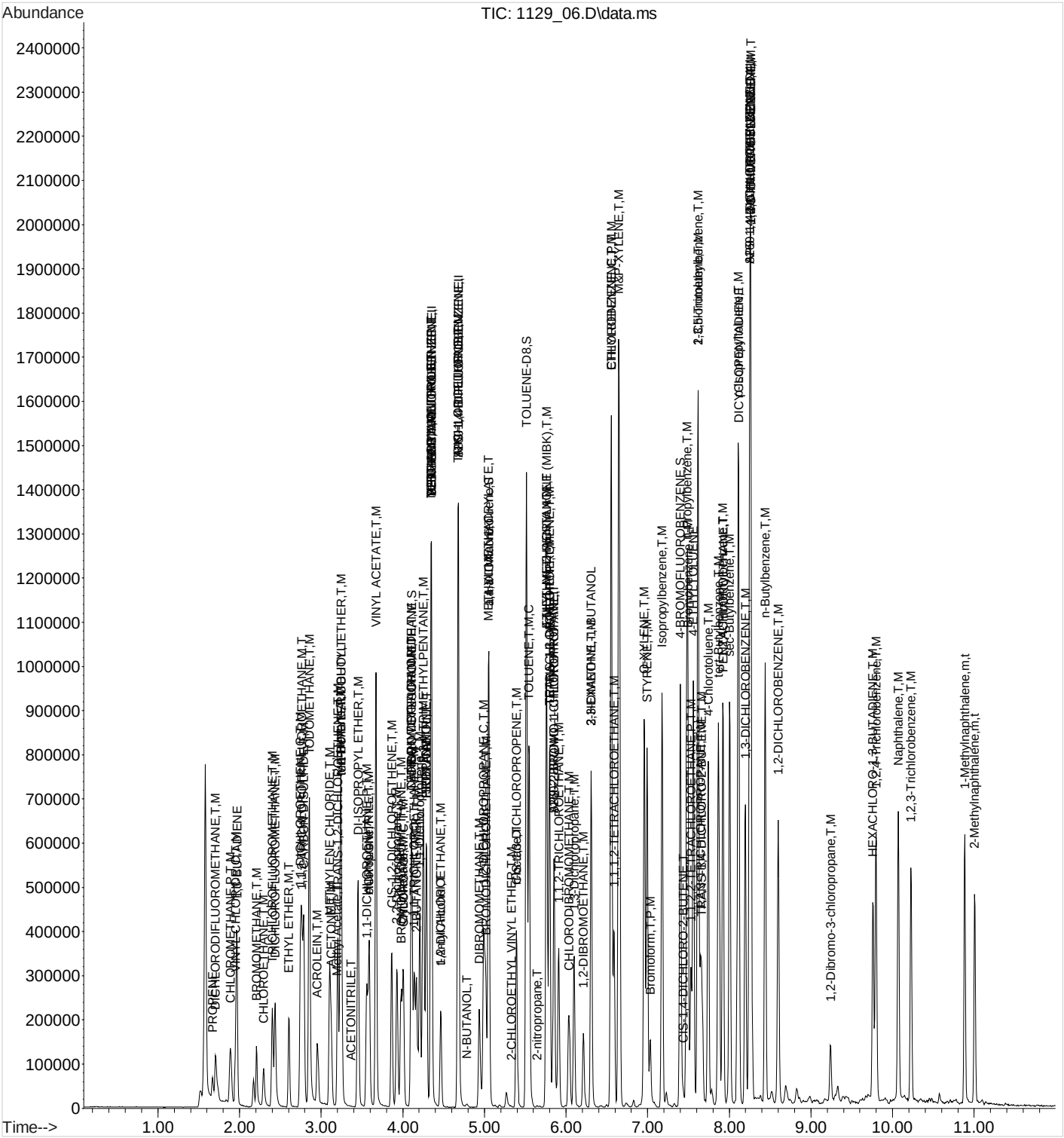
	Compound	R.T.	QIon	Response	Conc Units		Dev(Min)
97)	ETHANOL	0.000		0	N.D.		
98)	Bromoethane	0.000		0	N.D.		
99)	2-PROPANOL	0.000		0	N.D.		
100)	Methyl Acetate	3.191	43	4757	1.5286669 ppb	#	88
101)	ACETONITRILE	3.367	41	1682	2.6434692 ppb	#	86
102)	ALLYL CHLORIDE	3.057	76	511	N.D.		
103)	tert-BUTYL ALCOHOL	3.246	59	637	0.7334431 ppb	#	1
104)	chloroprene	3.586	53	221343	53.0923089 ppb	#	18
105)	ETHYL TERT-BUTYL ETHER	0.000		0	N.D.		
106)	PROPIONITRILE	4.286	54	1317	1.9943579 ppb	#	1
107)	Ethyl Acetate	4.061	43	1139	N.D.		
108)	METHACRYLONITRILE	4.347	67	715	0.3649406 ppb	#	1
109)	Cyclohexane	4.000	84	6029	0.9996227 ppb	#	27
110)	tert-butyl formate	4.201	59	683	N.D.		
111)	ISOBUTANOL	4.286	43	202467	715.9505863 ppb	#	99
112)	t-Amyl Alcohol	4.462	59	592	1.1578489 ppb	#	18
113)	TERT-AMYL METHYL ETHER	4.347	73	7301	0.5836891 ppb	#	1
115)	N-BUTANOL	4.785	56	3507	20.7001074 ppb	#	87
116)	Methyl Cyclohexane	4.675	83	8634	N.D.		
117)	2-nitropropane	5.643	43	1874	1.5054427 ppb	#	15
118)	METHYL METHACRYLATE	5.046	41	6814	1.7629591 ppb	#	100
119)	1,4-DIOXANE	5.053	88	3079	52.8920353 ppb	#	100
120)	n-octane	5.393	85	2635	0.6518409 ppb	#	30
121)	3,3-DIMETHYL-1-BUTANOL	6.306	57	85910	162.5836846 ppb	#	41
123)	ETHYL METHACRYLATE	5.764	69	4165	0.7164943 ppb	#	1
124)	CIS-1,4-DICHLORO-2-BUTENE	7.437	53	1985	1.4949489 ppb	#	18
125)	Cyclohexanone	7.675	55	2349	No Calib	#	
126)	PENTACHLOROETHANE	7.924	117	16478	5.9493594 ppb	#	18
127)	Hexachloroethane	8.581	117	658	N.D.		

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\112914\
Data File : 1129 06.D
Acq On : 29 Nov 2014 5:56 am
Operator : 644
Sample : MSD 1x WG757170 L735524-01
Misc : water IS/SURR14H06449/SPK14K25332
ALS Vial : 6 Sample Multiplier: 1
InstName : VOCMS7

Quant Time: Nov 30 12:00:35 2014
Quant Method : C:\msdchem\1\methods\V807K24N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS07
QLast Update : Tue Nov 25 14:00:56 2014
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\112914\
Data File : 1129 09.D
Acq On : 29 Nov 2014 6:53 am
Operator : 644
Sample : BLANK 1X WG757170
Misc : water IS/SURR14H06449
ALS Vial : 9 Sample Multiplier: 1
InstName : VOCMS7

Quant Time: Nov 18 16:52:21 2015
Quant Method : C:\msdchem\1\methods\V807K24N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS07
QLast Update : Tue Nov 25 14:00:56 2014
Response via : Initial Calibration

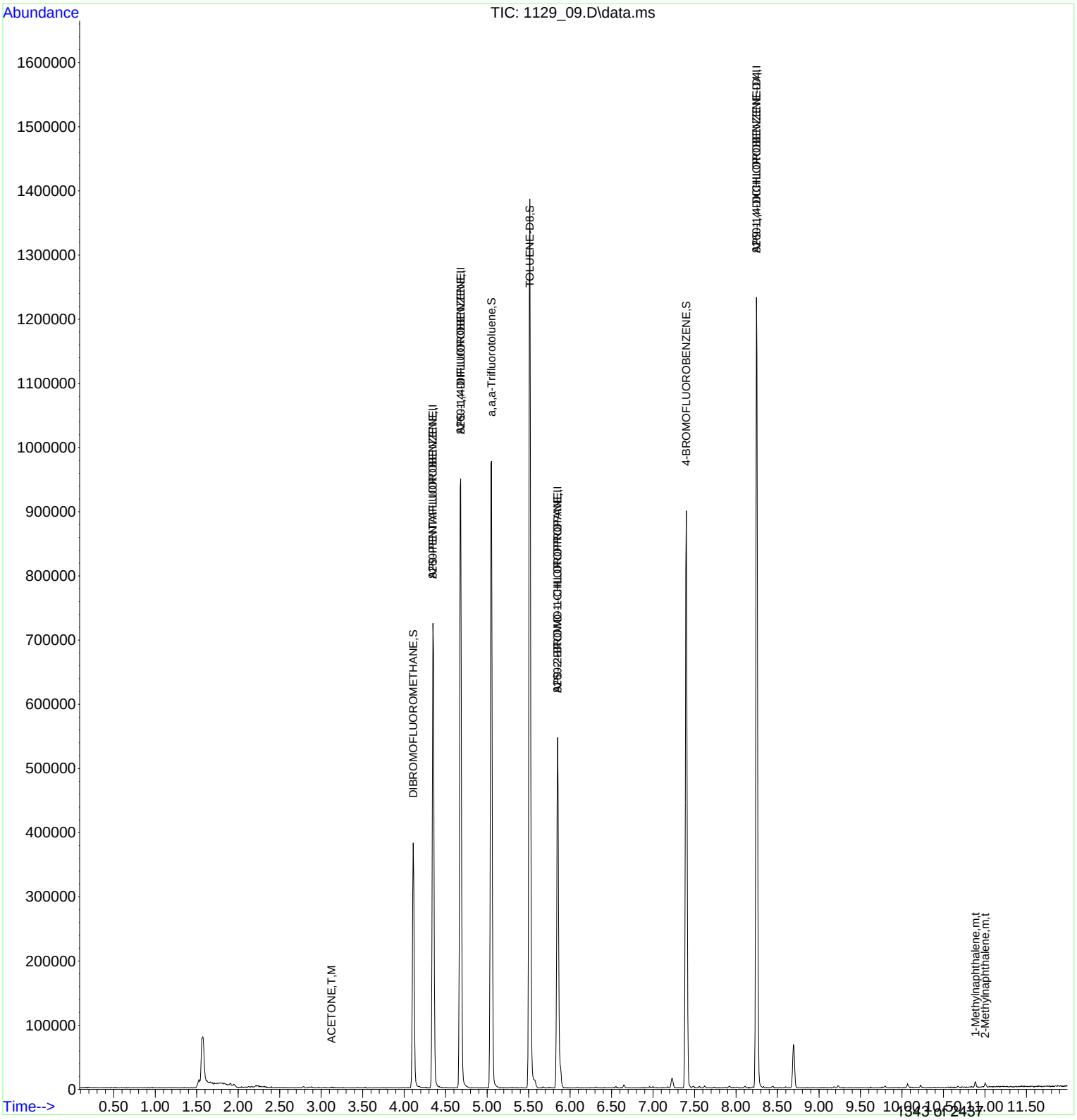
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 8260-PENTAFLUOROBENZENE	4.347	168	400764	40.0000000 ppb	0.00
41) 8260-1,4-DIFLUOROBENZENE	4.682	114	670443	40.0000000 ppb	0.00
53) 8260-2-BROMO-1-CHLOROP...	5.850	79	102109	40.0000000 ppb	0.00
84) 8260-1,4-DICHLOROBENZE...	8.247	152	301508	40.0000000 ppb	0.00
96) AP9-PENTAFLUOROBENZENE	4.347	168	400764	40.0000000 ppb	0.00
114) AP9-1,4-DIFLUOROBENZENE	4.682	114	670443	40.0000000 ppb	0.00
122) AP9-2-BROMO-1-CHLOROPR...	5.850	79	102109	40.0000000 ppb	# 0.00
128) AP9-1,4-DICHLOROBENZEN...	8.247	152	301508	40.0000000 ppb	0.00
System Monitoring Compounds					
33) DIBROMOFLUOROMETHANE	4.110	111	196174	37.8931125 ppb	0.00
Spiked Amount 40.000	Range 78 - 121		Recovery = 94.73%		
46) a,a,a-Trifluorotoluene	5.053	146	365696	41.1015172 ppb	0.00
Spiked Amount 40.000	Range 85 - 114		Recovery = 102.75%		
50) TOLUENE-D8	5.515	98	799372	39.5186397 ppb	0.00
Spiked Amount 40.000	Range 89 - 111		Recovery = 98.80%		
68) 4-BROMOFLUOROBENZENE	7.401	95	297009	41.6665514 ppb	0.00
Spiked Amount 40.000	Range 71 - 126		Recovery = 104.17%		
Target Compounds					Qvalue
16) ACETONE	3.124	43	1129	0.7829456 ppb #	39
94) 1-Methylnaphthalene	10.887	142	4561	0.6129193 ppb	88
95) 2-Methylnaphthalene	11.002	142	2916	0.4985091 ppb #	96

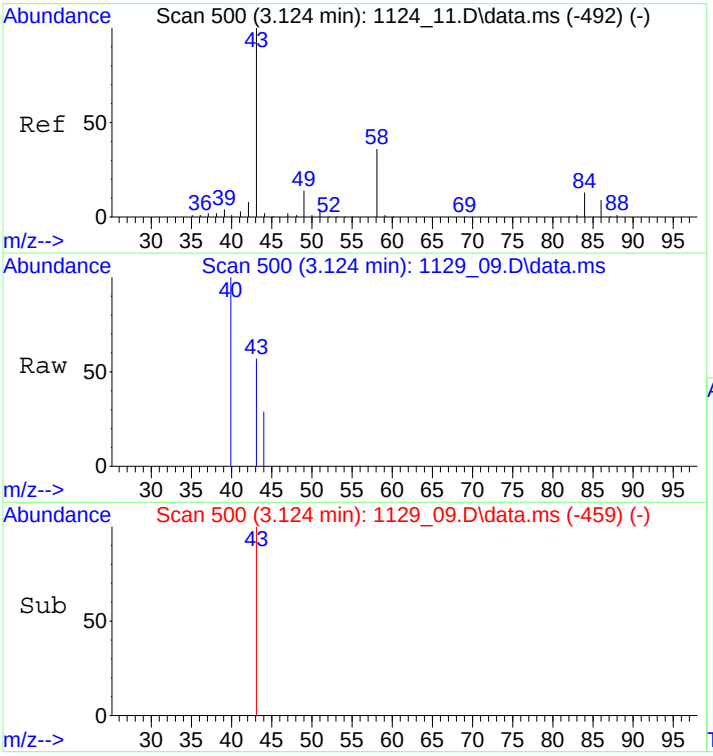
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\112914\
Data File : 1129 09.D
Acq On : 29 Nov 2014 6:53 am
Operator : 644
Sample : BLANK 1X WG757170
Misc : water IS/SURR14H06449
ALS Vial : 9 Sample Multiplier: 1
InstName : VOCMS7

Quant Time: Nov 18 16:52:21 2015
Quant Method : C:\msdchem\1\methods\V807K24N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS07
QLast Update : Tue Nov 25 14:00:56 2014
Response via : Initial Calibration

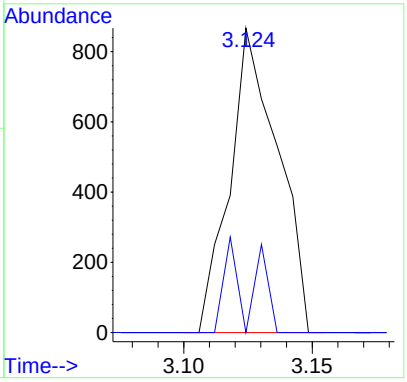


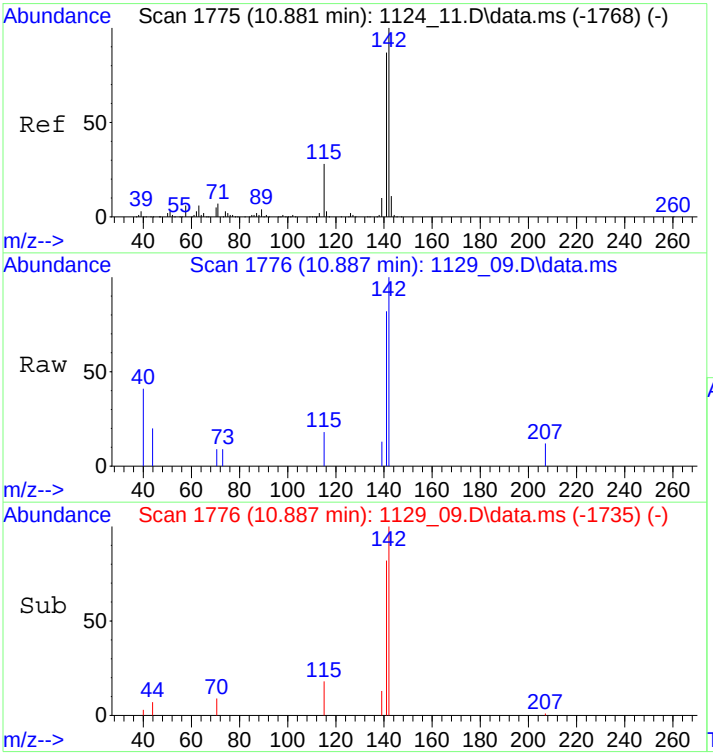


#16
ACETONE
Concen: 0.7829456 ppb
RT: 3.124 min Scan# 500
Delta R.T. 0.000 min
Lab File: 1129 09.D
Acq: 29 Nov 2014 6:53 am

Tgt Ion: 43 Resp: 1129

Ion	Ratio	Lower	Upper
43	100		
58	0.0	28.4	42.6#

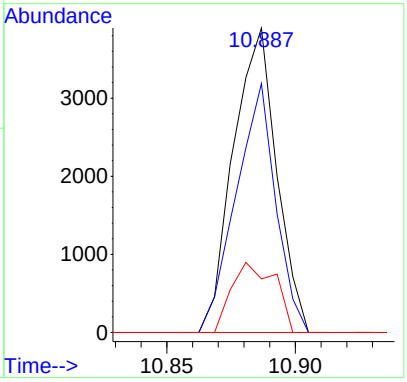


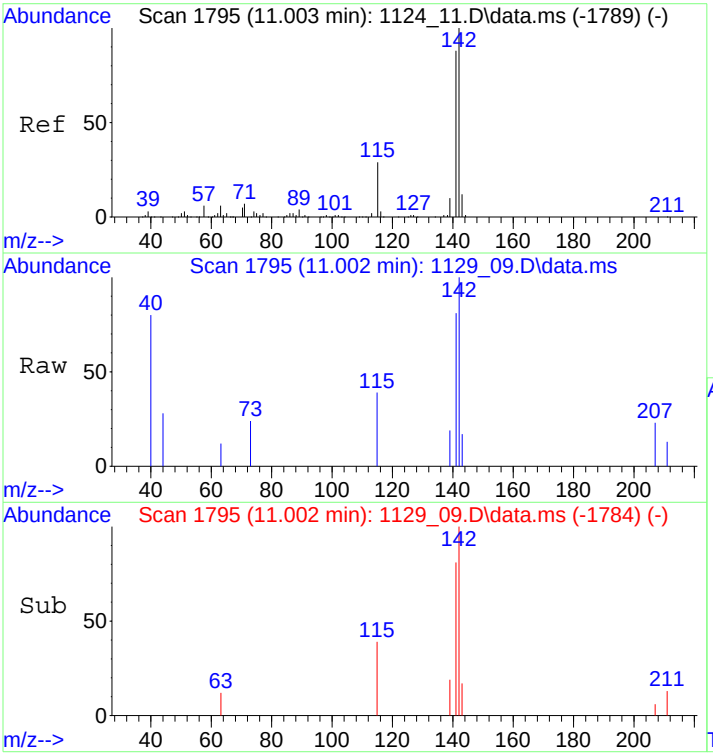


#94
1-Methylnaphthalene
Concen: 0.6129193 ppb
RT: 10.887 min Scan# 1776
Delta R.T. -0.000 min
Lab File: 1129_09.D
Acq: 29 Nov 2014 6:53 am

Tgt Ion:142 Resp: 4561

Ion	Ratio	Lower	Upper
142	100		
141	75.2	69.5	104.3
115	23.1	22.1	33.1

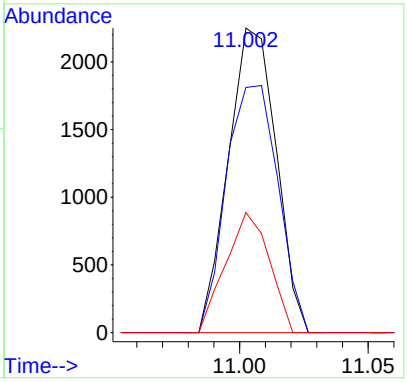




#95
2-Methylnaphthalene
Concen: 0.4985091 ppb
RT: 11.002 min Scan# 1795
Delta R.T. -0.000 min
Lab File: 1129 09.D
Acq: 29 Nov 2014 6:53 am

Tgt Ion:142 Resp: 2916

Ion	Ratio	Lower	Upper
142	100		
141	87.9	71.6	107.4
115	36.0	23.8	35.6#



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\112914\
Data File : 1129 19.D
Acq On : 29 Nov 2014 10:30 am
Operator : 644
Sample : L735181-02 1x WG757170 V8260
Misc : water IS/SURR14H06449
ALS Vial : 19 Sample Multiplier: 1
InstName : VOCMS7

Quant Time: Nov 19 13:09:56 2015
Quant Method : C:\msdchem\1\methods\V807K24N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS07
QLast Update : Tue Nov 25 14:00:56 2014
Response via : Initial Calibration

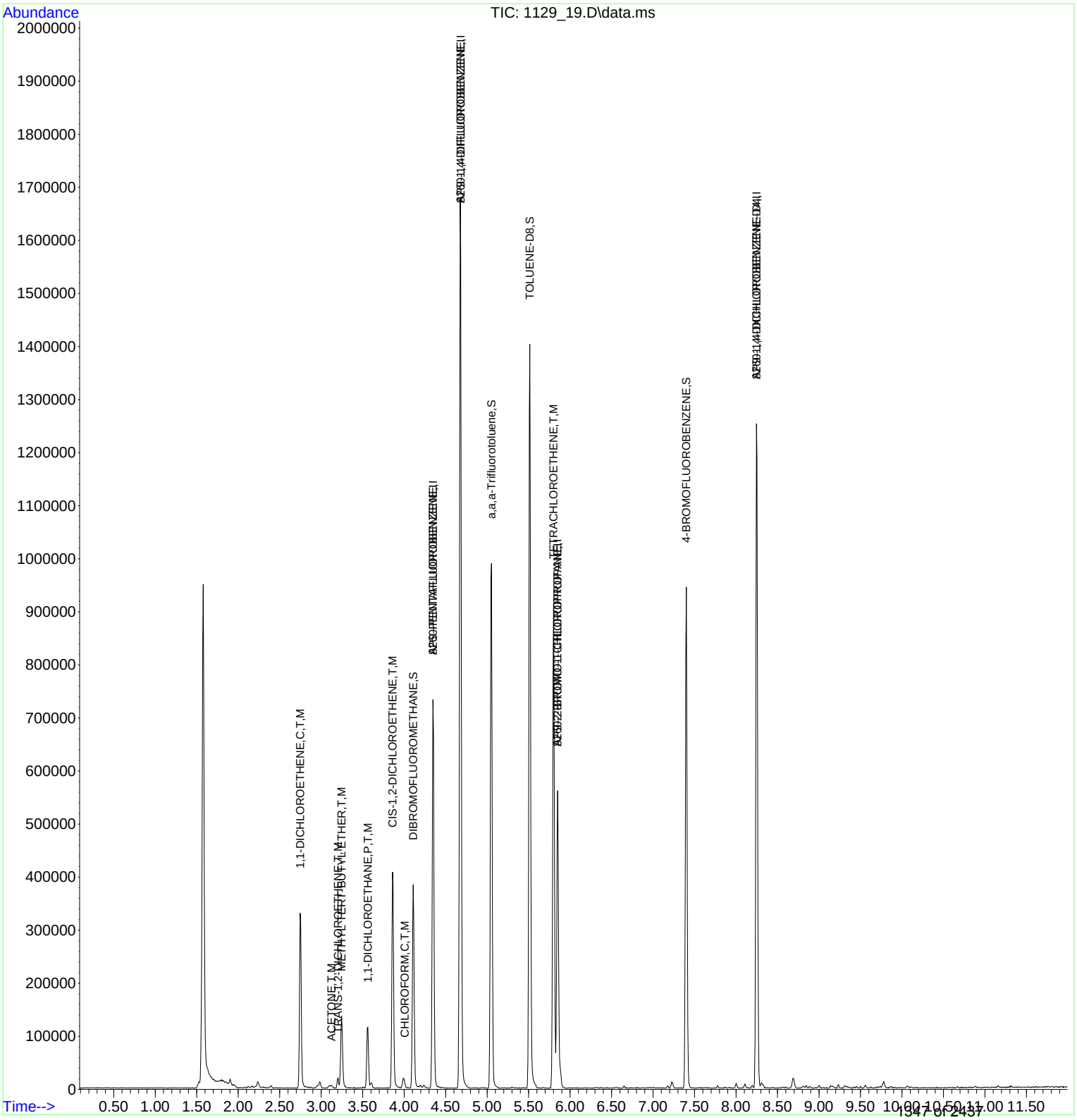
Compound	R.T.	QIon	Response	Conc Units		Dev(Min)
Internal Standards						
1) 8260-PENTAFLUOROBENZENE	4.347	168	398232	40.0000000 ppb		0.00
41) 8260-1,4-DIFLUOROBENZENE	4.682	114	665683	40.0000000 ppb		0.00
53) 8260-2-BROMO-1-CHLOROP...	5.850	79	104747	40.0000000 ppb		0.00
84) 8260-1,4-DICHLOROBENZE...	8.246	152	313945	40.0000000 ppb		0.00
96) AP9-PENTAFLUOROBENZENE	4.347	168	398232	40.0000000 ppb		0.00
114) AP9-1,4-DIFLUOROBENZENE	4.682	114	665683	40.0000000 ppb		0.00
122) AP9-2-BROMO-1-CHLOROPR...	5.850	79	104747	40.0000000 ppb	#	0.00
128) AP9-1,4-DICHLOROBENZEN...	8.246	152	313945	40.0000000 ppb		0.00
System Monitoring Compounds						
33) DIBROMOFLUOROMETHANE	4.110	111	194953	37.8966920 ppb		0.00
Spiked Amount 40.000	Range 78 - 121		Recovery = 94.74%			
46) a,a,a-Trifluorotoluene	5.053	146	367044	41.5480042 ppb		0.00
Spiked Amount 40.000	Range 85 - 114		Recovery = 103.87%			
50) TOLUENE-D8	5.515	98	809644	40.3126688 ppb		0.00
Spiked Amount 40.000	Range 89 - 111		Recovery = 100.78%			
68) 4-BROMOFLUOROBENZENE	7.401	95	303356	41.4851787 ppb		0.00
Spiked Amount 40.000	Range 71 - 126		Recovery = 103.71%			
Target Compounds						Qvalue
14) 1,1-DICHLOROETHENE	2.747	61	170621	23.1609520 ppb		99
16) ACETONE	3.124	43	5871	4.0973423 ppb	#	86
22) TRANS-1,2-DICHLOROETHENE	3.203	96	5906	1.0253073 ppb		94
23) METHYL TERT-BUTYL ETHER	3.246	73	112682	7.6184918 ppb	#	31
24) 1,1-DICHLOROETHANE	3.562	63	92741	9.6732093 ppb		97
28) CIS-1,2-DICHLOROETHENE	3.860	96	149583	24.5534797 ppb		99
32) CHLOROFORM	4.006	83	4102	0.4368661 ppb	#	96
55) TETRACHLOROETHENE	5.801	164	185496	55.6610496 ppb		99

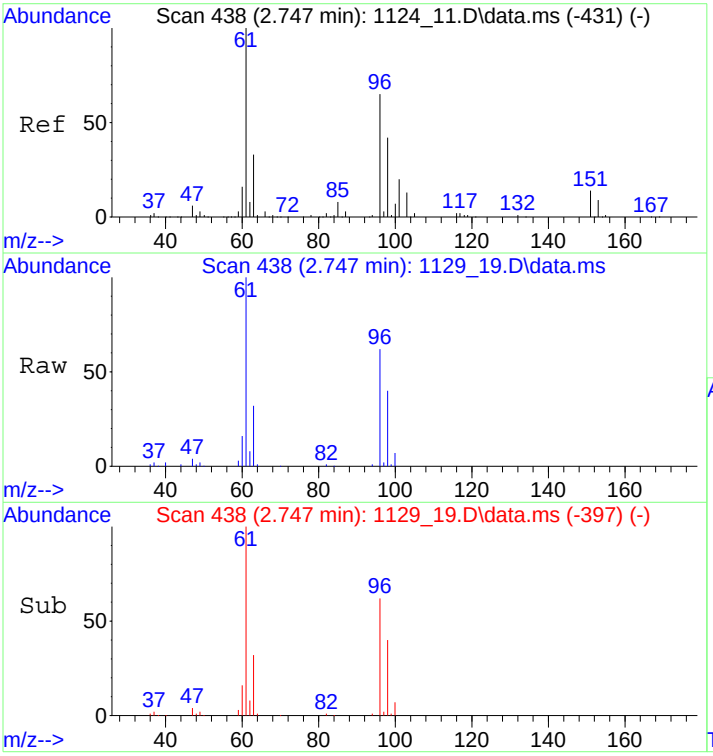
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\112914\
Data File : 1129 19.D
Acq On : 29 Nov 2014 10:30 am
Operator : 644
Sample : L735181-02 1x WG757170 V8260
Misc : water IS/SURR14H06449
ALS Vial : 19 Sample Multiplier: 1
InstName : VOCMS7

Quant Time: Nov 19 13:09:56 2015
Quant Method : C:\msdchem\1\methods\V807K24N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS07
QLast Update : Tue Nov 25 14:00:56 2014
Response via : Initial Calibration

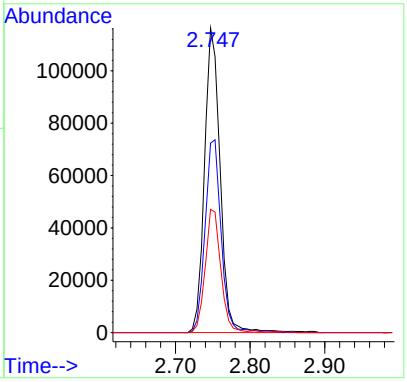


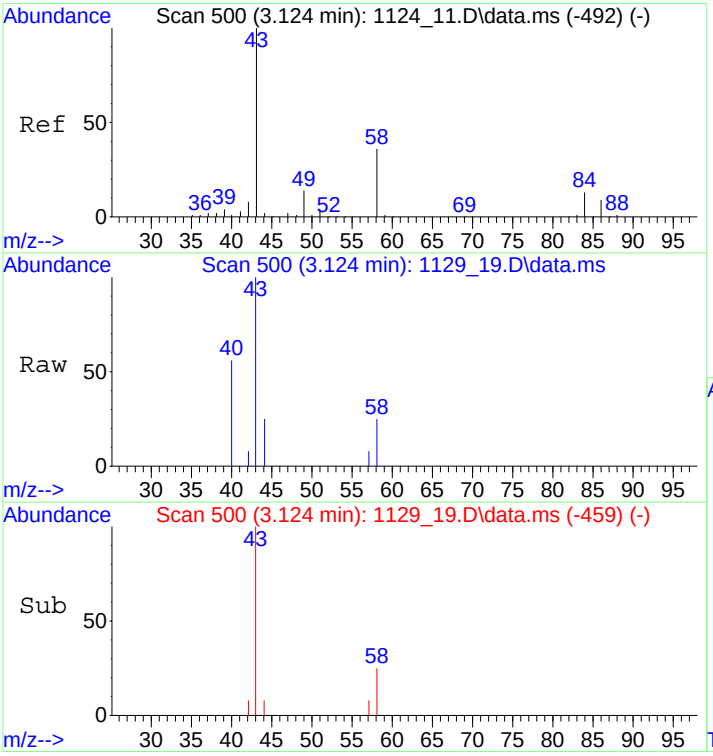


#14
1,1-DICHLOROETHENE
Concen: 23.1609520 ppb
RT: 2.747 min Scan# 438
Delta R.T. -0.000 min
Lab File: 1129 19.D
Acq: 29 Nov 2014 10:30 am

Tgt Ion: 61 Resp: 170621

Ion	Ratio	Lower	Upper
61	100		
96	64.8	50.8	76.2
98	39.8	32.4	48.6

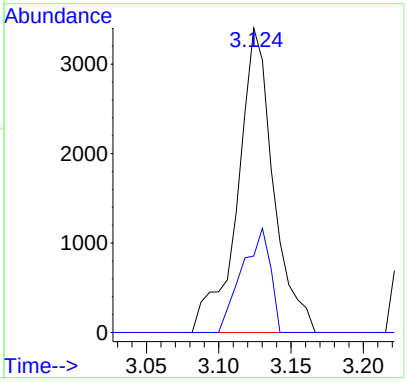


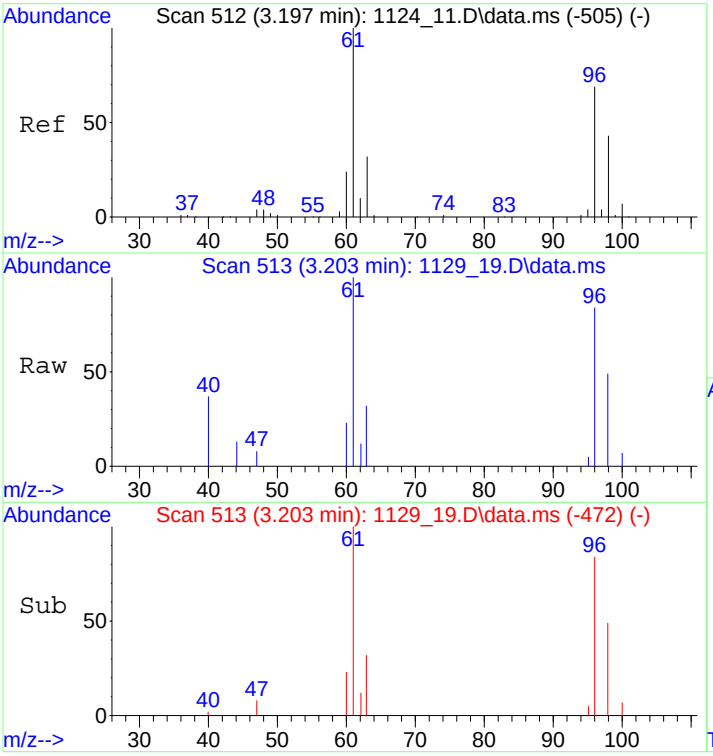


#16
ACETONE
Concen: 4.0973423 ppb
RT: 3.124 min Scan# 500
Delta R.T. 0.000 min
Lab File: 1129_19.D
Acq: 29 Nov 2014 10:30 am

Tgt Ion: 43 Resp: 5871

Ion	Ratio	Lower	Upper
43	100		
58	27.1	28.4	42.6#

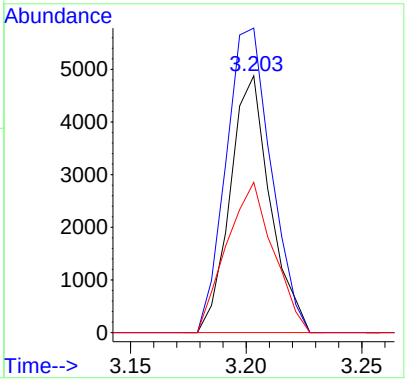


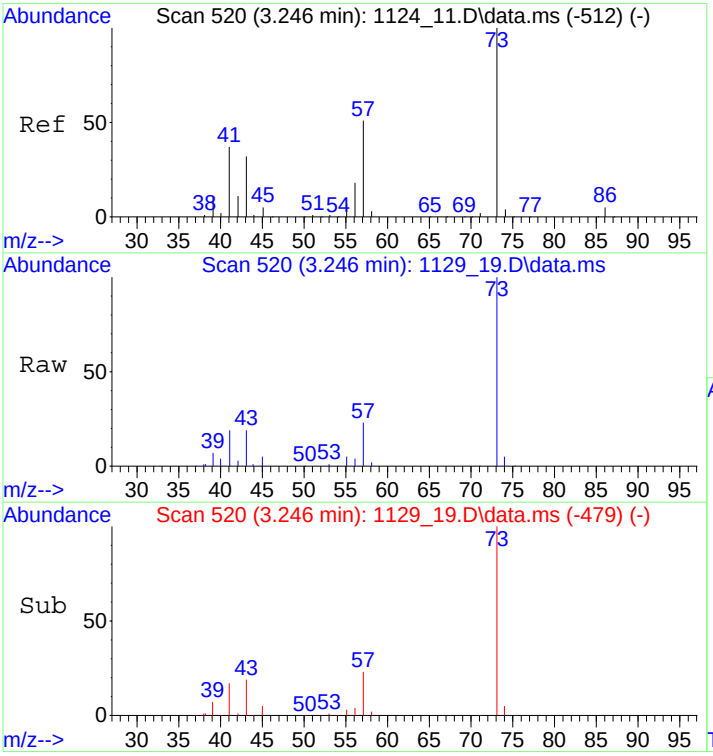


#22
TRANS-1,2-DICHLOROETHENE
Concen: 1.0253073 ppb
RT: 3.203 min Scan# 513
Delta R.T. -0.000 min
Lab File: 1129 19.D
Acq: 29 Nov 2014 10:30 am

Tgt Ion: 96 Resp: 5906

Ion	Ratio	Lower	Upper
96	100		
61	133.1	112.3	168.5
98	67.9	50.2	75.2

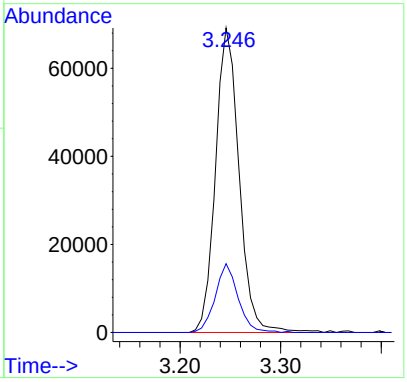


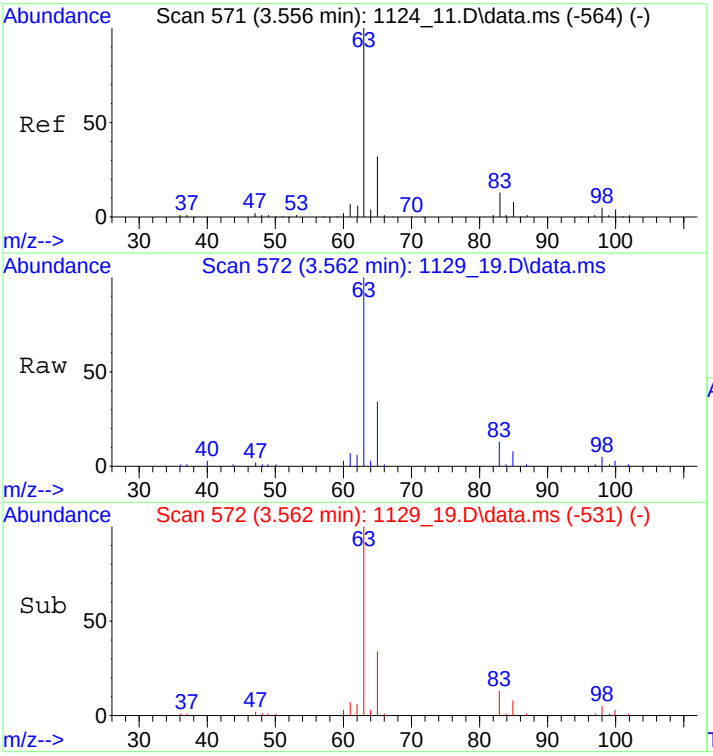


#23
METHYL TERT-BUTYL ETHER
Concen: 7.6184918 ppb
RT: 3.246 min Scan# 520
Delta R.T. -0.000 min
Lab File: 1129_19.D
Acq: 29 Nov 2014 10:30 am

Tgt Ion: 73 Resp: 112682

Ion	Ratio	Lower	Upper
73	100		
57	21.9	67.4	101.0#

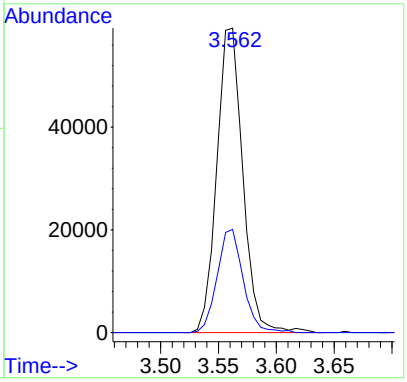


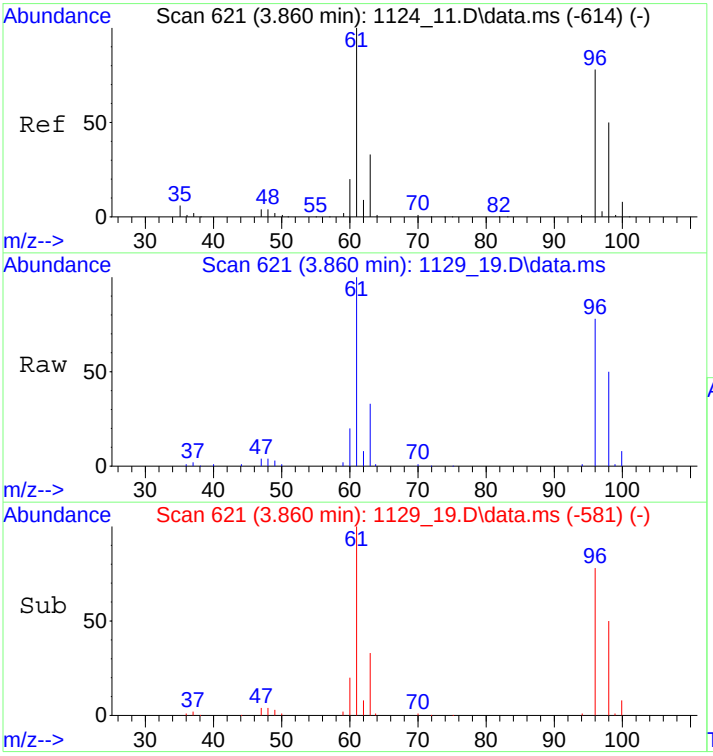


#24
1,1-DICHLOROETHANE
Concen: 9.6732093 ppb
RT: 3.562 min Scan# 572
Delta R.T. -0.000 min
Lab File: 1129 19.D
Acq: 29 Nov 2014 10:30 am

Tgt Ion: 63 Resp: 92741

Ion	Ratio	Lower	Upper
63	100		
65	33.9	25.8	38.8

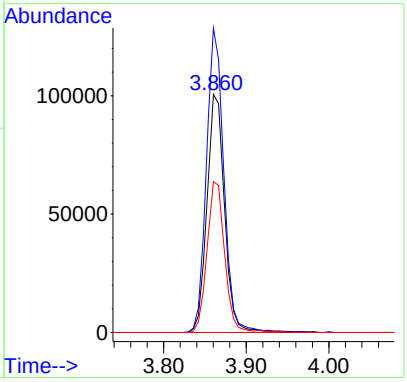


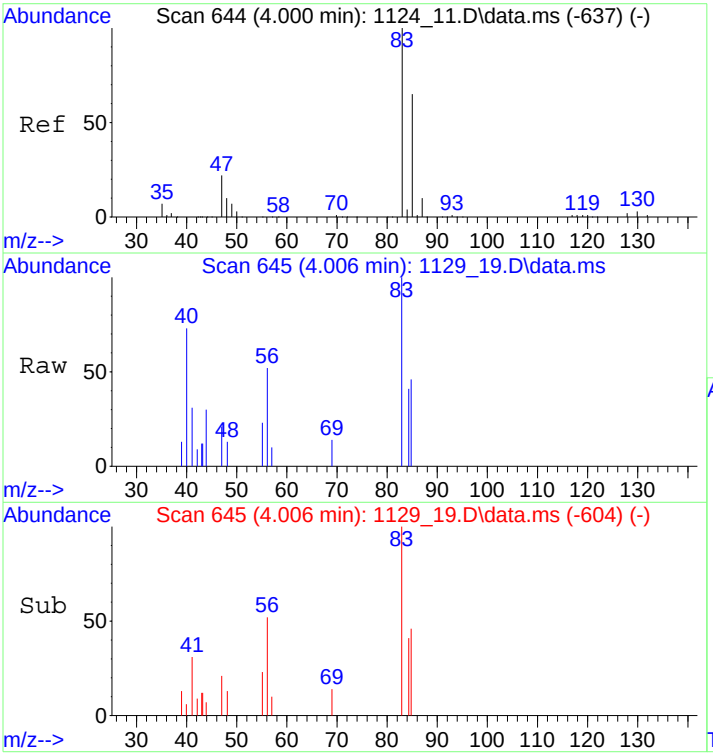


#28
CIS-1,2-DICHLOROETHENE
Concen: 24.5534797 ppb
RT: 3.860 min Scan# 621
Delta R.T. -0.006 min
Lab File: 1129_19.D
Acq: 29 Nov 2014 10:30 am

Tgt Ion: 96 Resp: 149583

Ion	Ratio	Lower	Upper
96	100		
61	125.4	100.7	151.1
98	63.4	49.8	74.8

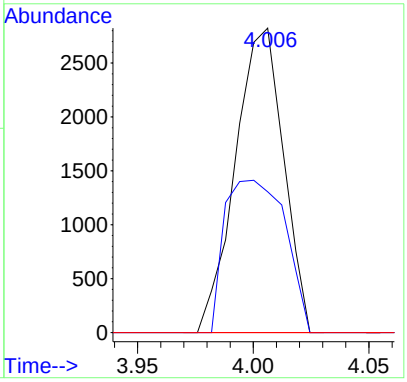


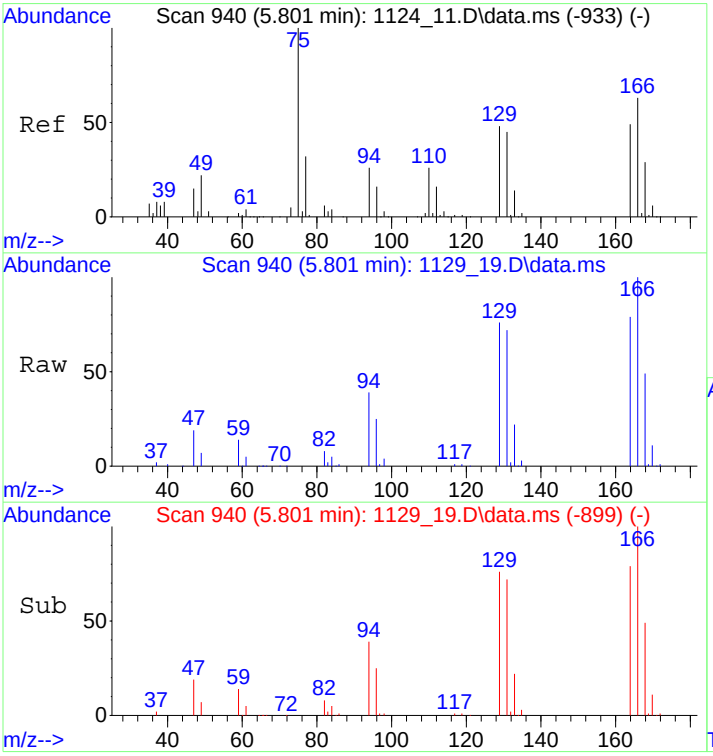


#32
CHLOROFORM
Concen: 0.4368661 ppb
RT: 4.006 min Scan# 645
Delta R.T. -0.000 min
Lab File: 1129 19.D
Acq: 29 Nov 2014 10:30 am

Tgt Ion: 83 Resp: 4102

Ion	Ratio	Lower	Upper
83	100		
85	63.0	50.7	76.1
87	0.0	8.2	12.2#

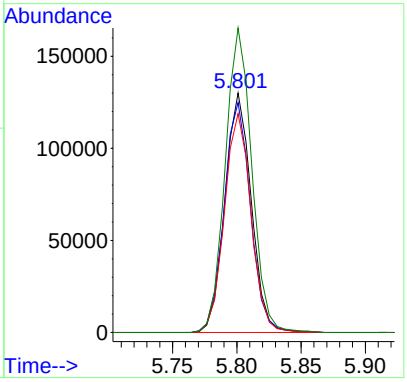




#55
TETRACHLOROETHENE
Concen: 55.6610496 ppb
RT: 5.801 min Scan# 940
Delta R.T. -0.000 min
Lab File: 1129_19.D
Acq: 29 Nov 2014 10:30 am

Tgt Ion:164 Resp: 185496

Ion	Ratio	Lower	Upper
164	100		
129	96.7	78.0	117.0
131	92.0	74.6	111.8
166	128.3	102.4	153.6



Calibration

Instrument: VOCMS20
Method: V820K23N

Initial Calibration Run Log

File ID	Level ID	Date Analyzed
1123_03a.D	.25	11/24/2014 12:16:00 AM
1123_04a.D	.5	11/24/2014 12:34:00 AM
1123_05a.D	1	11/24/2014 12:53:00 AM
1123_06a.D	2	11/24/2014 1:11:00 AM
1123_07a.D	5.0	11/24/2014 1:30:00 AM
1123_08a.D	10	11/24/2014 1:48:00 AM
1123_09a.D	25	11/24/2014 2:06:00 AM
1123_10a.D	40	11/24/2014 2:24:00 AM
1123_11a.D	75	11/24/2014 2:42:00 AM
1123_12a.D	100	11/24/2014 3:00:00 AM
1123_13a.D	200	11/24/2014 3:19:00 AM
1123_17A.D	1A	11/24/2014 9:39:00 AM
1123_18A.D	2.5A	11/24/2014 9:57:00 AM
1123_19A.D	5A	11/24/2014 10:15:00 AM
1123_20A.D	7.5A	11/24/2014 10:33:00 AM
1123_21A.D	10A	11/24/2014 10:51:00 AM
1123_22A.D	12A	11/24/2014 11:09:00 AM
1123_23A.D	15A	11/24/2014 11:51:00 AM
1123_24A.D	17A	11/24/2014 12:09:00 PM
1123_25A.D	20A	11/24/2014 12:27:00 PM

Environmental Science Corporation
12065 Lebanon Rd., Mt. Juliet, TN 37122

Injection Log

Instrument ID : VOCMS20
Computer Name : VOCCOMPAH

Released By : Amy Green
Date Released : 11/24/2014 2:54:37 PM

Run ID : 112314a
Signature : _____

#	File ID	Sample ID	Method	WG	Product	Matrix	Account #	State	Dil.	Mult.	Injected	Misc.
1	1123_01a	INSTBLK	V820K23N						1	1	11/23/14 2339	"water IS/SURR14K01013"
2	1123_01a	INSTBLK VMS								1	11/23/14 2339	
3	1123_02a	INSTBLK	V820K23N						1	1	11/23/14 2357	"water IS/SURR14K01013"
4	1123_02a	INSTBLK VMS								1	11/23/14 2357	
5	1123_03a	STD VMS .25 PPB 14K20062	V820K23N						1	1	11/24/14 0016	"water IS/SURR14K01013"
6	1123_04a	STD VMS .5 PPB 14K20062	V820K23N						1	1	11/24/14 0034	"water IS/SURR14K01013"
7	1123_05a	STD VMS 1 PPB 14K20062	V820K23N						1	1	11/24/14 0053	"water IS/SURR14K01013"
8	1123_05B	RL VMS 1 PPB 14K20062	V820K23N						1	1	11/24/14 0053	"water IS/SURR14K01013"
9	1123_06a	STD VMS 2 PPB 14K20062	V820K23N						1	1	11/24/14 0111	"water IS/SURR14K01013"
10	1123_07a	STD VMS 5 PPB 14K20062	V820K23N						1	1	11/24/14 0130	"water IS/SURR14K01013"
11	1123_08a	STD VMS 10 PPB 14K20062	V820K23N						1	1	11/24/14 0148	"water IS/SURR14K01013"
12	1123_09a	MSTD VMS 25 PPB 14K20062	V820K23N						1	1	11/24/14 0206	"water IS/SURR14K01013"
13	1123_10a	STD VMS 40 PPB 14K20062	V820K23N						1	1	11/24/14 0224	"water IS/SURR14K01013"
14	1123_11a	STD VMS 75 PPB 14K20062	V820K23N						1	1	11/24/14 0242	"water IS/SURR14K01013"
15	1123_12a	STD VMS 100 PPB 14K20062	V820K23N						1	1	11/24/14 0300	"water IS/SURR14K01013"

Environmental Science Corporation
12065 Lebanon Rd., Mt. Juliet, TN 37122

Injection Log

Instrument ID : VOCMS20
Computer Name : VOCCOMPAH
Released By : Amy Green
Date Released : 11/24/2014 2:54:37 PM
Run ID : 112314a
Signature : _____

#	File ID	Sample ID	Method	WG	Product	Matrix	Account #	State	Dil.	Mult.	Injected	Misc.
16	1123_13a	STD VMS 200 PPB 14K20062	V820K23N						1	1	11/24/14 0319	"water IS/SURR14K01013"
17	1123_14a	INSTBLK	V820K23N						1	1	11/24/14 0337	"water IS/SURR14K01013"
18	1123_15a	SSCV VMS 25 PPB 14K20062	V820K23N						1	1	11/24/14 0356	"water IS/SURR14K01013"
19	1123_16A	INSTBLK	V820K23N						1	1	11/24/14 0921	"water IS/SURR14K01013"
20	1123_16A	INSTBLK VMS	V820K23N							1	11/24/14 0921	
21	1123_17A	STD VMS 1 PPB 14I02840	V820K23N						1	1	11/24/14 0939	"water IS/SURR14K01013"
22	1123_17B	RL VMS 1A PPB 14I02840	V820K23N						1	1	11/24/14 0939	"water IS/SURR14K01013"
23	1123_18A	STD VMS 2.5 PPB 14I02840	V820K23N						1	1	11/24/14 0957	"water IS/SURR14K01013"
24	1123_19A	STD VMS 5 PPB 14I02840	V820K23N						1	1	11/24/14 1015	"water IS/SURR14K01013"
25	1123_20A	STD VMS 7.5 PPB 14I02840	V820K23N						1	1	11/24/14 1033	"water IS/SURR14K01013"
26	1123_21A	MSTD VMS 10A PPB 14I02840	V820K23N						1	1	11/24/14 1051	"water IS/SURR14K01013"
27	1123_22A	STD VMS 12.5 PPB 14I02840	V820K23N						1	1	11/24/14 1109	"water IS/SURR14K01013"
28	1123_23A	STD VMS 15 PPB 14I02840	V820K23N						1	1	11/24/14 1151	"water IS/SURR14K01013"
29	1123_24A	STD VMS 17.5 PPB 14I02840	V820K23N						1	1	11/24/14 1209	"water IS/SURR14K01013"
30	1123_25A	STD VMS 20 PPB 14I02840	V820K23N						1	1	11/24/14 1227	"water IS/SURR14K01013"

Environmental Science Corporation
12065 Lebanon Rd., Mt. Juliet, TN 37122

Injection Log

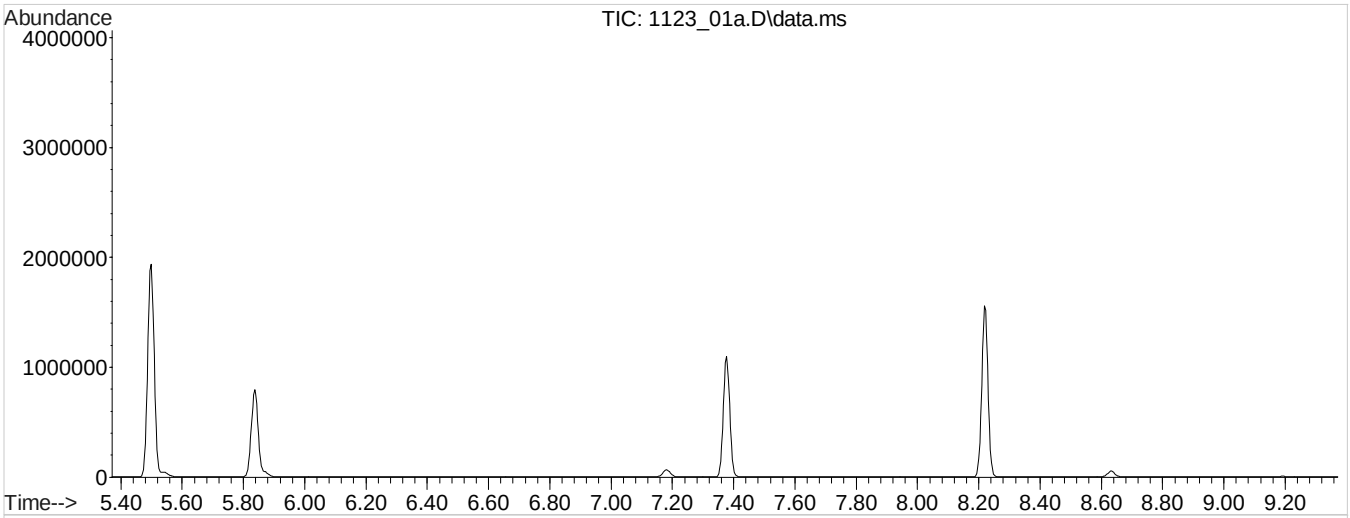
Instrument ID : VOCMS20
Computer Name : VOCCOMPAH
Released By : Amy Green
Date Released : 11/24/2014 2:54:37 PM
Run ID : 112314a
Signature : _____

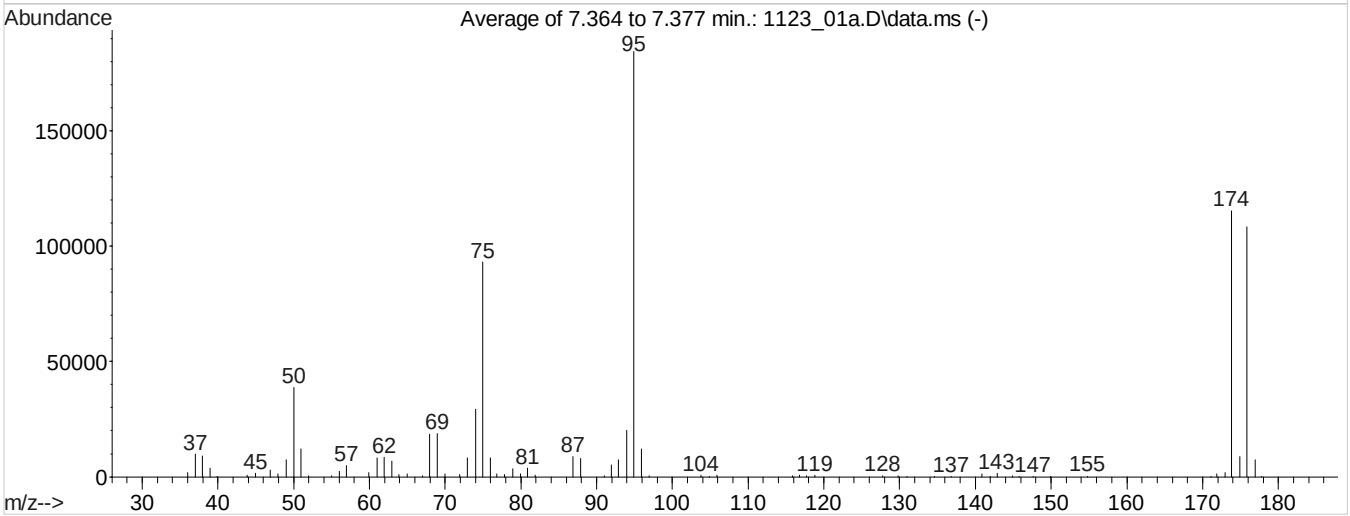
#	File ID	Sample ID	Method	WG	Product	Matrix	Account #	State	Dil.	Mult.	Injected	Misc.
31	1123_26A	INSTBLK	V820K23N						1	1	11/24/14 1246	"water IS/SURR14K01013"
32	1123_27A	SSCV VMS 10A PPB 14I02844	V820K23N						1	1	11/24/14 1304	"water IS/SURR14K01013"

Data Path : C:\MSDchem\1\data\112314a\
Data File : 1123 01a.D
Acq On : 23 Nov 2014 11:39 pm
Operator : 644
Sample : INSTBLK VMS
Misc : water IS/SURR14K01013
ALS Vial : 1 Sample Multiplier: 1

Integration File: RTEINT.P

Method : C:\MSDchem\1\methods\V820K23N.M
Title : Env. Science Corp. 8260B/6210D/624 - VOCMS20
Last Update : Mon Nov 24 14:32:41 2014





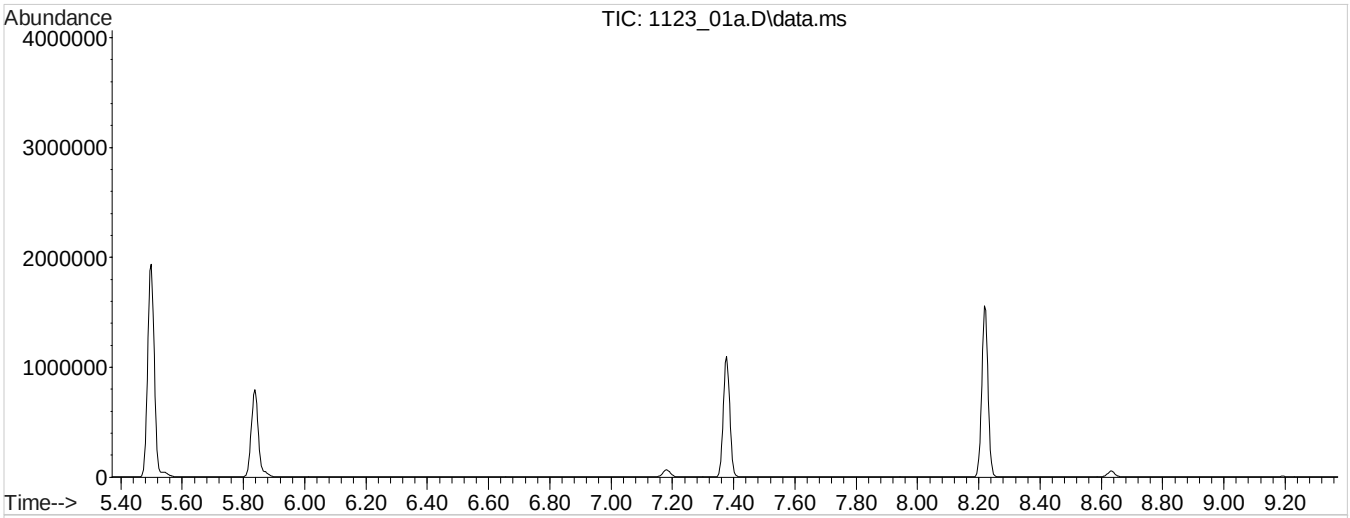
Spectrum Information: Average of 7.364 to 7.377 min.

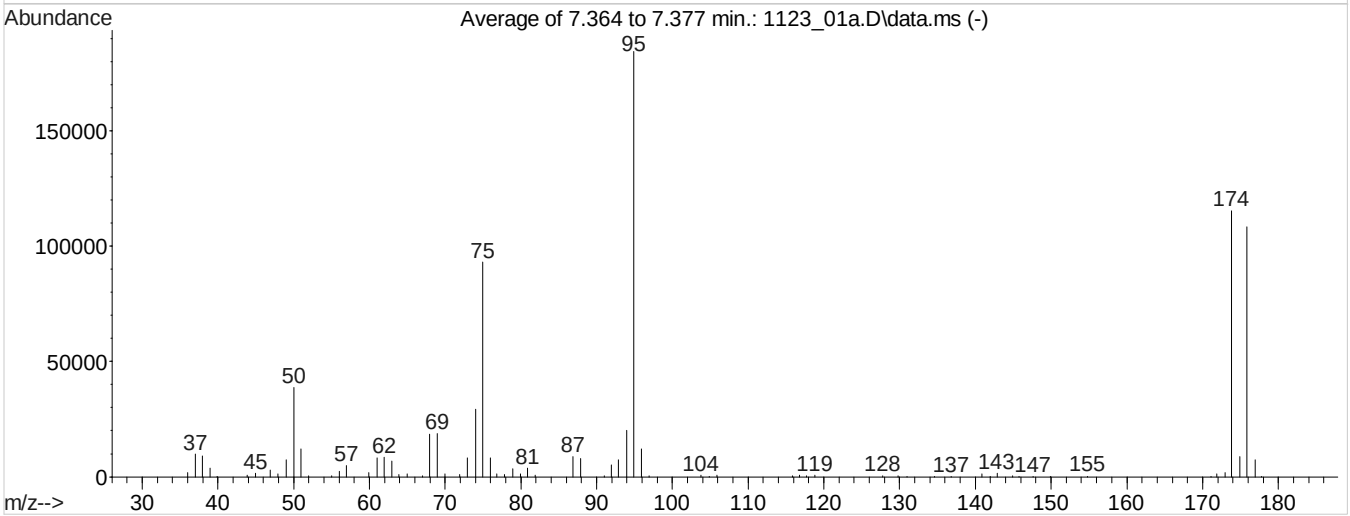
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	21.0	38733	PASS
75	95	30	60	50.5	93219	PASS
95	95	100	100	100.0	184548	PASS
96	95	5	9	6.5	12076	PASS
173	174	0.00	2	1.5	1764	PASS
174	95	50	150	62.5	115398	PASS
175	174	5	9	7.6	8732	PASS
176	174	95	101	93.9	108395	FAIL*
177	176	5	9	6.7	7303	PASS

Data Path : C:\MSDchem\1\data\112314a\
Data File : 1123 01a.D
Acq On : 23 Nov 2014 11:39 pm
Operator : 644
Sample : INSTBLK VMS
Misc : water IS/SURR14K01013
ALS Vial : 1 Sample Multiplier: 1

Integration File: RTEINT.P

Method : C:\MSDchem\1\methods\V820K23N.M
Title : Env. Science Corp. 8260B/6210D/624 - VOCMS20
Last Update : Mon Nov 24 14:32:41 2014





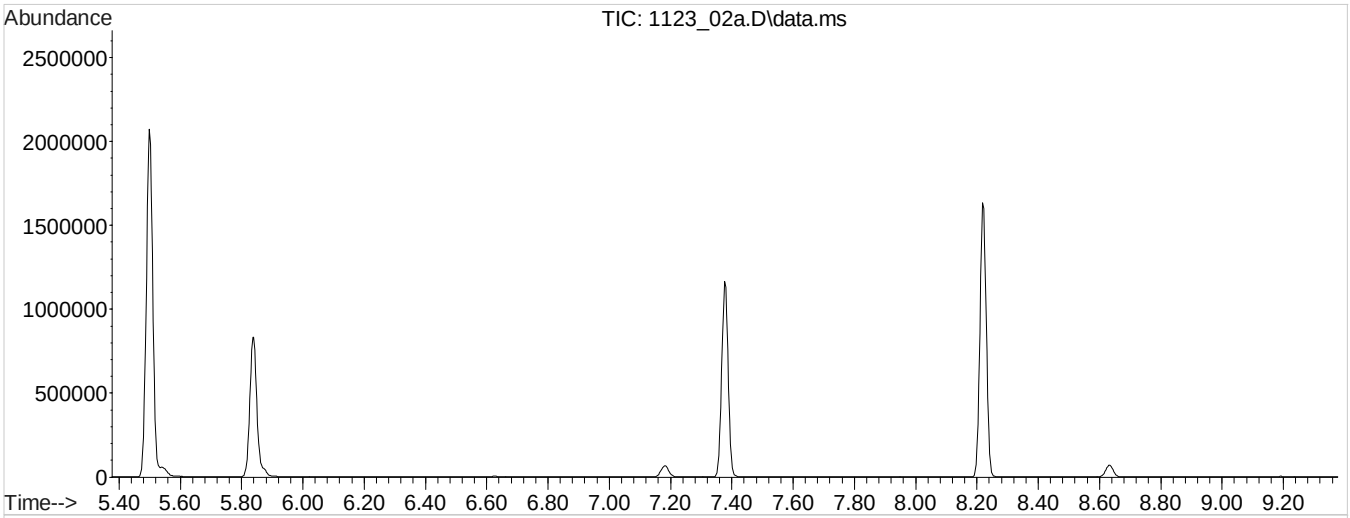
Spectrum Information: Average of 7.364 to 7.377 min.

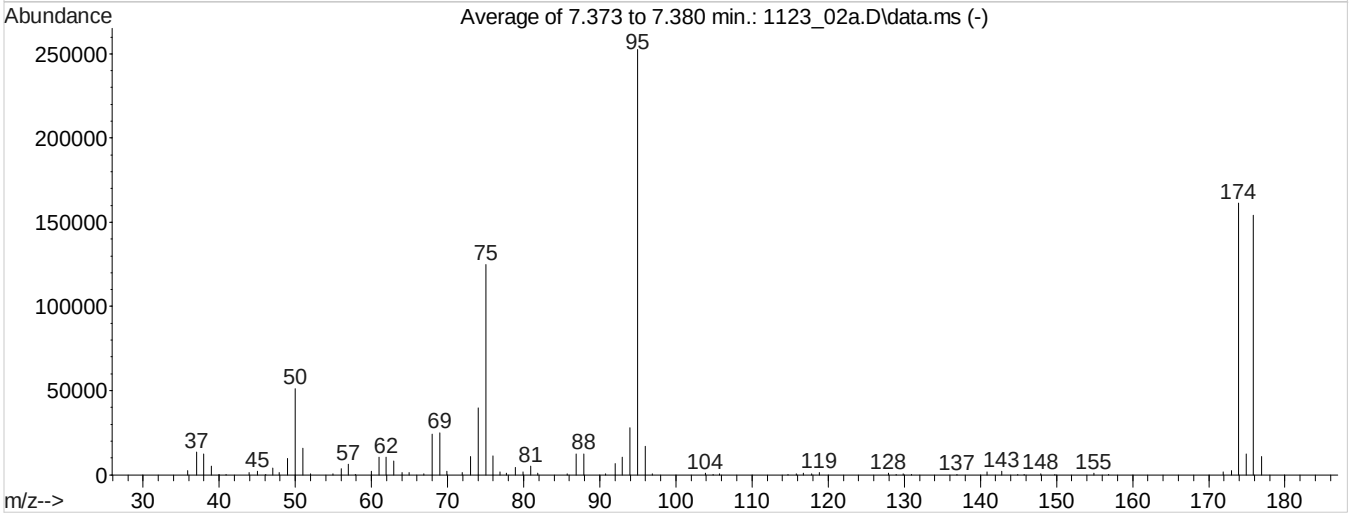
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	21.0	38733	PASS
75	95	30	60	50.5	93219	PASS
95	95	100	100	100.0	184548	PASS
96	95	5	9	6.5	12076	PASS
173	174	0.00	2	1.5	1764	PASS
174	95	50	150	62.5	115398	PASS
175	174	5	9	7.6	8732	PASS
176	174	95	101	93.9	108395	FAIL*
177	176	5	9	6.7	7303	PASS

Data Path : C:\MSDchem\1\data\112314a\
Data File : 1123 02a.D
Acq On : 23 Nov 2014 11:57 pm
Operator : 644
Sample : INSTBLK VMS
Misc : water IS/SURR14K01013
ALS Vial : 2 Sample Multiplier: 1

Integration File: RTEINT.P

Method : C:\MSDchem\1\methods\V820K23N.M
Title : Env. Science Corp. 8260B/6210D/624 - VOCMS20
Last Update : Mon Nov 24 14:32:41 2014





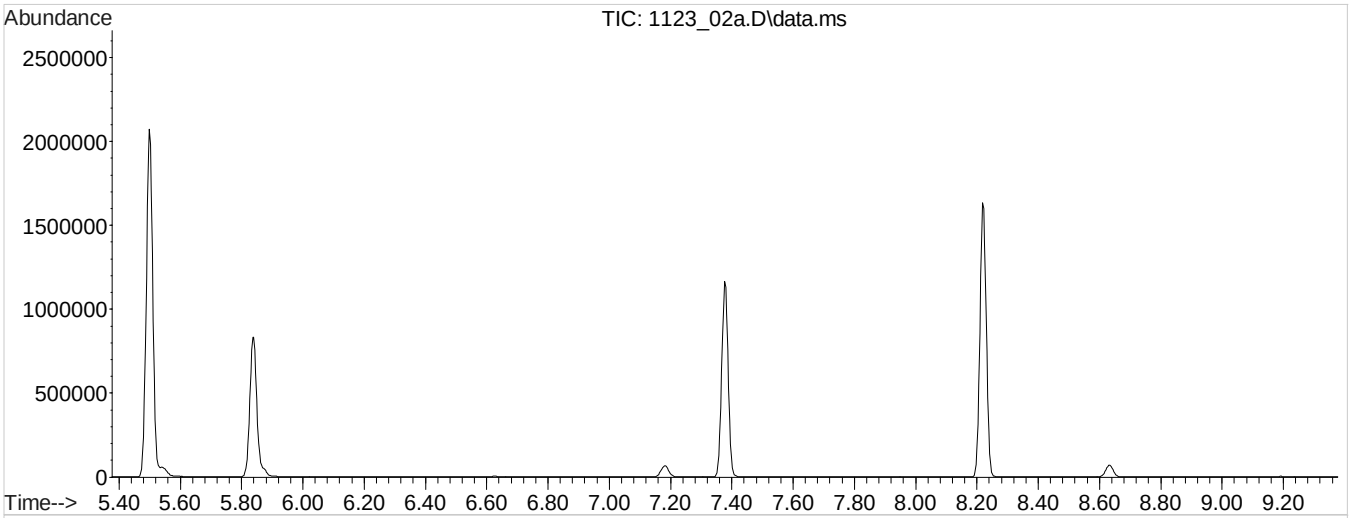
AutoFind: Scans 2265, 2266, 2267; Background Corrected with Scan 2253

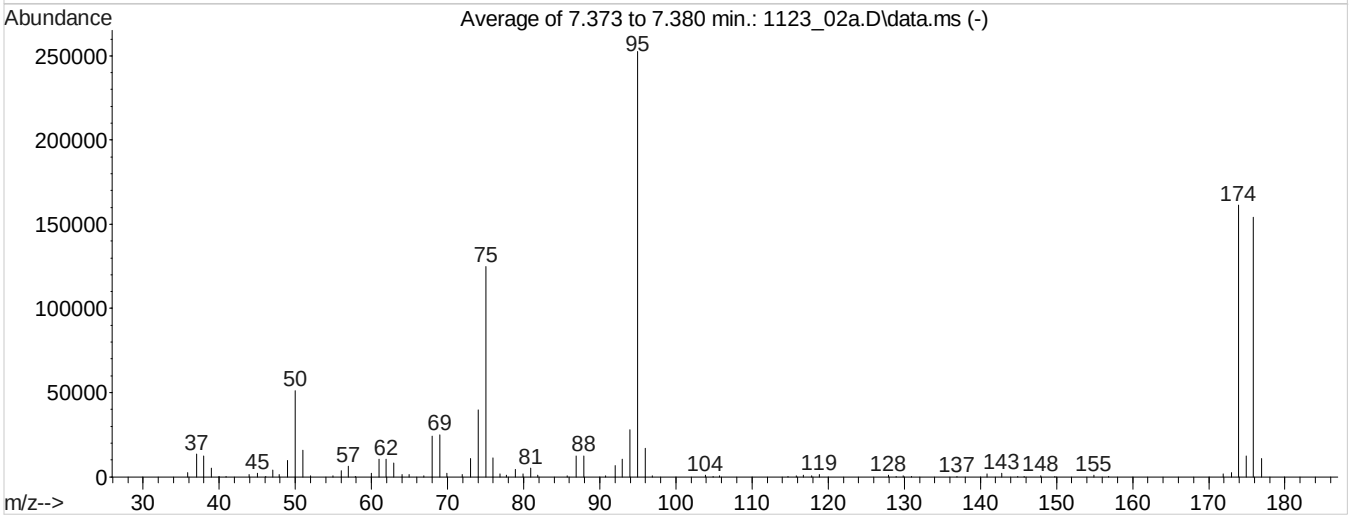
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	20.2	51131	PASS
75	95	30	60	49.5	124965	PASS
95	95	100	100	100.0	252693	PASS
96	95	5	9	6.7	16973	PASS
173	174	0.00	2	1.5	2373	PASS
174	95	50	150	63.8	161280	PASS
175	174	5	9	7.8	12535	PASS
176	174	95	101	95.5	154069	PASS
177	176	5	9	6.9	10705	PASS

Data Path : C:\MSDchem\1\data\112314a\
Data File : 1123 02a.D
Acq On : 23 Nov 2014 11:57 pm
Operator : 644
Sample : INSTBLK VMS
Misc : water IS/SURR14K01013
ALS Vial : 2 Sample Multiplier: 1

Integration File: RTEINT.P

Method : C:\MSDchem\1\methods\V820K23N.M
Title : Env. Science Corp. 8260B/6210D/624 - VOCMS20
Last Update : Mon Nov 24 14:32:41 2014





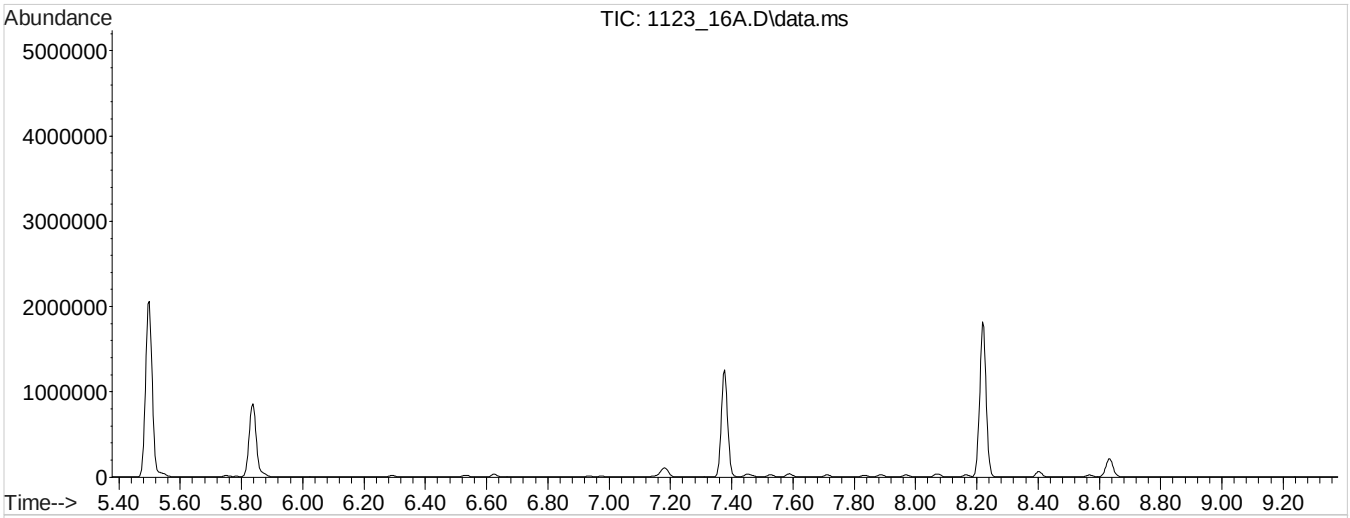
AutoFind: Scans 2265, 2266, 2267; Background Corrected with Scan 2253

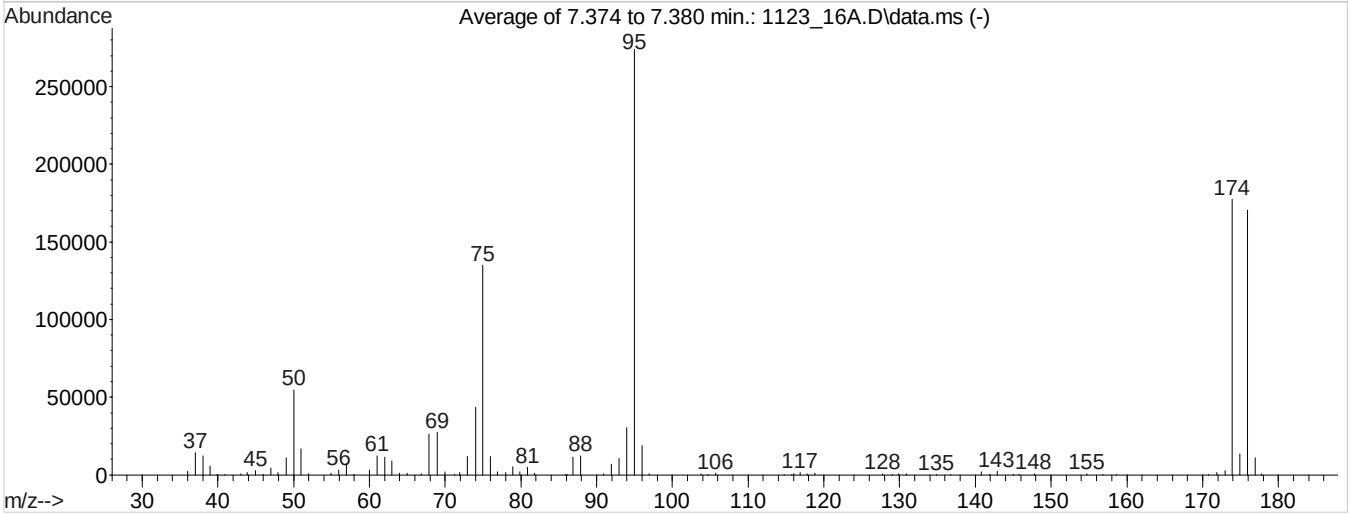
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	20.2	51131	PASS
75	95	30	60	49.5	124965	PASS
95	95	100	100	100.0	252693	PASS
96	95	5	9	6.7	16973	PASS
173	174	0.00	2	1.5	2373	PASS
174	95	50	150	63.8	161280	PASS
175	174	5	9	7.8	12535	PASS
176	174	95	101	95.5	154069	PASS
177	176	5	9	6.9	10705	PASS

Data Path : C:\MSDchem\1\data\112314a\
Data File : 1123 16A.D
Acq On : 24 Nov 2014 9:21 am
Operator : 644
Sample : INSTBLK VMS
Misc : water IS/SURR14K01013
ALS Vial : 16 Sample Multiplier: 1

Integration File: RTEINT.P

Method : C:\MSDchem\1\methods\V820K23N.M
Title : Env. Science Corp. 8260B/6210D/624 - VOCMS20
Last Update : Mon Nov 24 14:32:41 2014





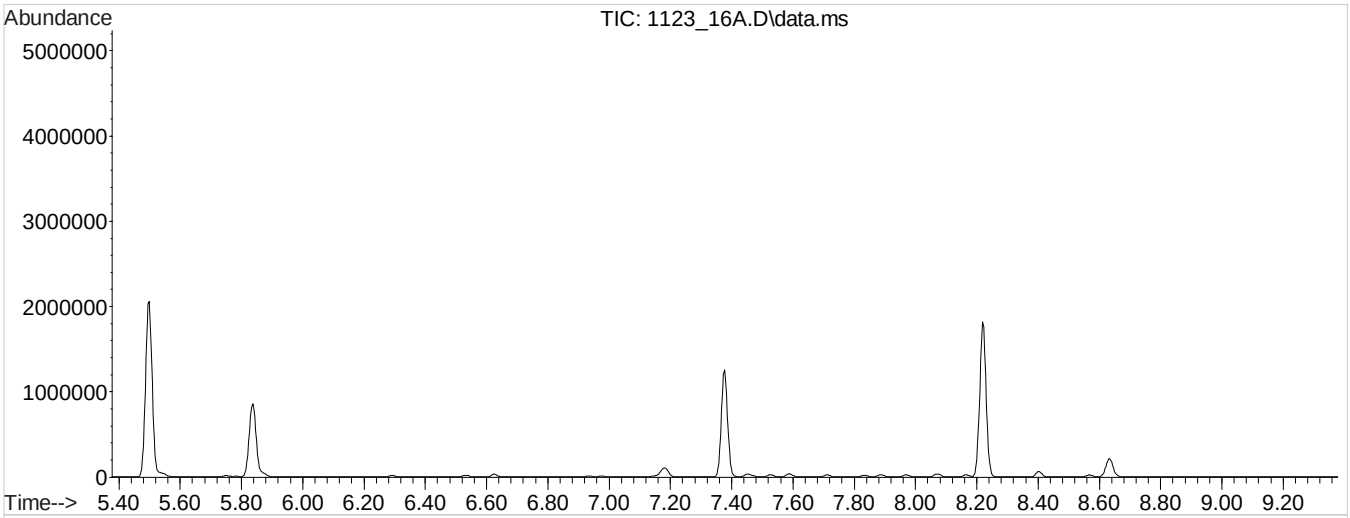
AutoFind: Scans 2265, 2266, 2267; Background Corrected with Scan 2252

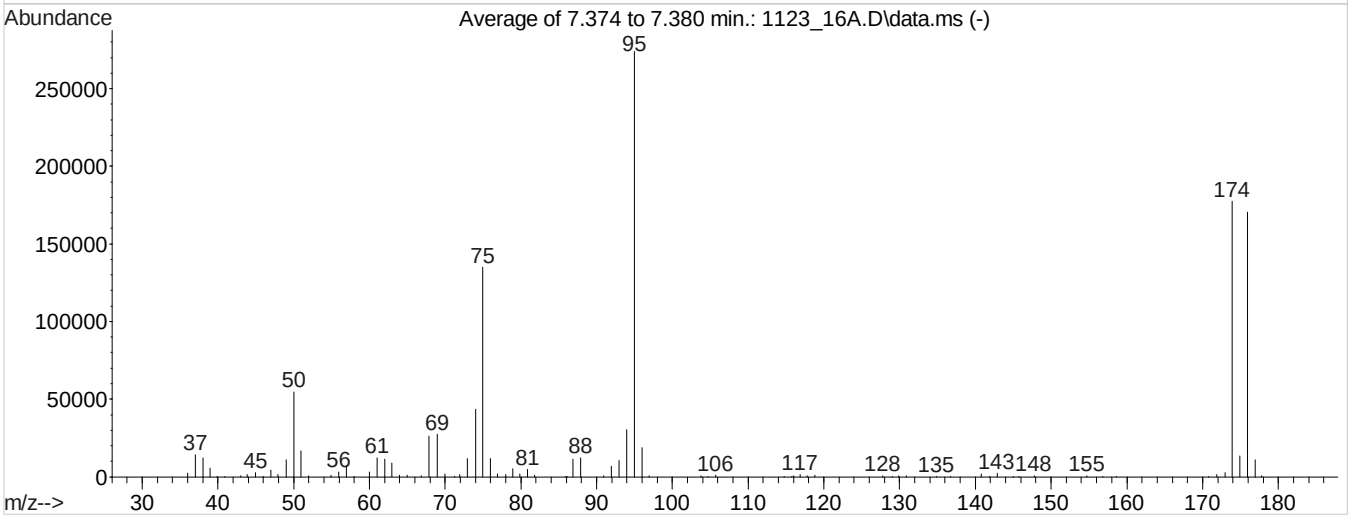
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	19.9	54645	PASS
75	95	30	60	49.3	135147	PASS
95	95	100	100	100.0	274048	PASS
96	95	5	9	6.8	18693	PASS
173	174	0.00	2	1.5	2731	PASS
174	95	50	150	64.7	177408	PASS
175	174	5	9	7.5	13350	PASS
176	174	95	101	96.0	170325	PASS
177	176	5	9	6.4	10917	PASS

Data Path : C:\MSDchem\1\data\112314a\
Data File : 1123 16A.D
Acq On : 24 Nov 2014 9:21 am
Operator : 644
Sample : INSTBLK VMS
Misc : water IS/SURR14K01013
ALS Vial : 16 Sample Multiplier: 1

Integration File: RTEINT.P

Method : C:\MSDchem\1\methods\V820K23N.M
Title : Env. Science Corp. 8260B/6210D/624 - VOCMS20
Last Update : Mon Nov 24 14:32:41 2014





AutoFind: Scans 2265, 2266, 2267; Background Corrected with Scan 2252

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	19.9	54645	PASS
75	95	30	60	49.3	135147	PASS
95	95	100	100	100.0	274048	PASS
96	95	5	9	6.8	18693	PASS
173	174	0.00	2	1.5	2731	PASS
174	95	50	150	64.7	177408	PASS
175	174	5	9	7.5	13350	PASS
176	174	95	101	96.0	170325	PASS
177	176	5	9	6.4	10917	PASS

Environmental Science Corporation
12065 Lebanon Rd., Mt. Juliet, TN 37122

INITIAL CALIBRATION SUMMARY

Instrument ID	: VOCMS20	Review Method	: 6200	Released By	: Amy Green
Method	: V820K23N	Review Protocol	: SM 20th	Released On	: 11/24/2014 2:54:38 PM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- V820K23N -- ICal Updated Time: Mon Nov 24 14:32:41 2014

Parameter	.25	.5	1	2	5.0	10	25	40	75	100	200	1A	2.5A	5A	7.5A	10A	12A	15A	17A	20A	AvgRF	%RSD	COD	Cur
8260-PENTAFLUOROBENZENE																								
TPH (GC/MS) LOW FRACTION																					0	0	0	1
PROPENE				0.236	0.181	0.192	0.175	0.172	0.178	0.172	0.173										0.184855	11.8	0.118	1
DICHLORODIFLUOROMETHANE	0.701	0.748	0.637	0.664	0.631	0.658	0.634	0.655	0.663	0.624	0.638										0.659327	5.52	0.055	1
CHLOROMETHANE	1.274	1.157	1.138	1.12	1.077	1.085	1.041	1.062	1.077	1.045	1.061										1.103495	6.15	0.061	1
VINYL CHLORIDE	0.857	0.982	0.968	0.979	0.911	0.947	0.89	0.924	0.921	0.892	0.907										0.925281	4.33	0.043	1
1,3-BUTADIENE	0.87	0.806	0.793	0.715	0.693	0.683	0.667	0.691	0.704	0.67	0.699										0.726447	9.12	0.091	1
BROMOMETHANE	0.748	0.636	0.587	0.594	0.557	0.572	0.526	0.543	0.551	0.535	0.54										0.580908	11.03	0.11	1
CHLOROETHANE		0.121	0.18	0.194	0.165	0.179	0.162	0.164	0.163	0.16	0.161										0.164754	11.42	0.114	1
TRICHLOROFLUOROMETHANE	0.907	0.942	0.841	0.873	0.836	0.857	0.815	0.833	0.845	0.82	0.849										0.856087	4.46	0.045	1
DICHLOROFLUOROMETHANE	1.324	1.413	1.308	1.248	1.193	1.243	1.168	1.198	1.213	1.177	1.193										1.243407	6.1	0.061	1
ETHYL ETHER	0.726	0.717	0.837	0.676	0.691	0.703	0.682	0.678	0.677	0.657	0.667										0.701073	7.07	0.071	1
ACROLEIN	0.126	0.117	0.111	0.105	0.109	0.116	0.112	0.114	0.111	0.107	0.108										0.112378	5.27	0.053	1
1,1-DICHLOROETHENE	1.164	1.012	1.112	1.125	1.024	1.04	1.019	1.025	1.032	0.986	1.032										1.051869	5.27	0.053	1
1,1,2 -TRICHLOROTRIFLUOROETHANE	0.573	0.683	0.585	0.571	0.577	0.545	0.552	0.567	0.579	0.552	0.578										0.57832	6.41	0.064	1
ACETONE			0.267	0.228	0.206	0.203	0.195	0.198	0.19	0.185	0.17										0.204617	13.78	0.138	1
IODOMETHANE	0.991	1.094	1.092	1.031	1	1.021	0.988	1.003	1.022	0.998	1.057										1.02689	3.73	0.037	1
CARBON DISULFIDE	2.839	2.723	2.677	2.555	2.42	2.428	2.391	2.432	2.444	2.35	2.451										2.519193	6.29	0.063	1
METHYLENE CHLORIDE	0.88	0.895	0.953	0.892	0.855	0.873	0.838	0.841	0.848	0.821	0.837										0.866616	4.34	0.043	1
ACRYLONITRILE	0.261	0.274	0.28	0.264	0.265	0.279	0.283	0.282	0.281	0.272	0.28										0.2746	2.91	0.029	1
n-Hexane	0.876	0.847	0.82	0.773	0.759	0.74	0.743	0.767	0.747	0.732	0.744										0.777059	6.25	0.063	1
TRANS-1,2-DICHLOROETHENE	0.831	0.803	0.843	0.777	0.74	0.749	0.726	0.749	0.762	0.734	0.761										0.770634	5.09	0.051	1
METHYL TERT-BUTYL ETHER	1.972	2.236	2.181	1.989	2.04	2.123	2.134	2.163	2.144	2.087	2.154										2.111081	3.87	0.039	1

PDF Generated On: 11/24/2014 - By: Amy Green

Environmental Science Corporation
12065 Lebanon Rd., Mt. Juliet, TN 37122

INITIAL CALIBRATION SUMMARY

Instrument ID	: VOCMS20	Review Method	: 6200	Released By	: Amy Green
Method	: V820K23N	Review Protocol	: SM 20th	Released On	: 11/24/2014 2:54:38 PM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- V820K23N -- ICal Updated Time: Mon Nov 24 14:32:41 2014

Parameter	.25	.5	1	2	5.0	10	25	40	75	100	200	1A	2.5A	5A	7.5A	10A	12A	15A	17A	20A	AvgRF	%RSD	COD	Cur
1,1-DICHLOROETHANE	1.601	1.498	1.563	1.528	1.494	1.509	1.457	1.486	1.483	1.446	1.492										1.505273	2.98	0.03	1
VINYL ACETATE	1.127	1.236	1.311	1.167	1.246	1.233	1.211	1.194	1.162	1.113	1.111										1.191912	5.28	0.053	1
DI-ISOPROPYL ETHER	2.898	2.972	3.078	3.017	2.987	3.087	3.084	3.153	3.179	3.123	3.215										3.072117	3.12	0.031	1
2,2-Dichloropropane	0.844	0.703	0.739	0.806	0.745	0.742	0.705	0.693	0.718	0.687	0.661										0.731005	7.32	0.073	1
CIS-1,2-DICHLOROETHENE	0.842	0.867	0.869	0.824	0.831	0.87	0.836	0.846	0.845	0.829	0.845										0.845924	1.93	0.019	1
2-BUTANONE (MEK)	0.06	0.09	0.084	0.076	0.083	0.083	0.085	0.087	0.085	0.083	0.085										0.081839	9.84	0.098	1
BROMOCHLOROMETHANE	0.537	0.458	0.483	0.464	0.445	0.458	0.438	0.45	0.454	0.436	0.447										0.460799	6.16	0.062	1
TETRAHYDROFURAN	0.288	0.26	0.283	0.234	0.234	0.235	0.24	0.238	0.23	0.23	0.231										0.245619	8.77	0.088	1
CHLOROFORM	1.407	1.495	1.437	1.346	1.354	1.351	1.317	1.327	1.331	1.299	1.331										1.363297	4.33	0.043	1
DIBROMOFLUOROMETHANE	0.554	0.56	0.557	0.544	0.54	0.554	0.539	0.544	0.552	0.537	0.552										0.548371	1.43	0.014	1
1,1,1-TRICHLOROETHANE	1.061	0.922	1.019	0.978	0.931	0.943	0.912	0.933	0.95	0.911	0.932										0.953869	4.96	0.05	1
CARBON TETRACHLORIDE	0.724	0.789	0.781	0.788	0.828	0.735	0.735	0.743	0.77	0.747	0.771										0.764532	4.06	0.041	1
1,1-Dichloropropene	1.055	1.108	0.957	0.999	1.019	1.001	1.011	1.038	1.048	1.012	1.051										1.027152	3.83	0.038	1
2,2,4-TRIMETHYLPENTANE	3.265	3.409	2.997	3.002	3.056	3.145	3.06	3.198	3.21	3.061	3.21										3.146702	4.02	0.04	1
HEPTANE	1.531	1.384	1.391	1.223	1.354	1.394	1.371	1.479	1.448	1.444	1.488										1.409812	5.89	0.059	1
BENZENE	3.627	3.727	3.693	3.51	3.38	3.404	3.313	3.393	3.375	3.294	3.393										3.464597	4.38	0.044	1
1,2-DICHLOROETHANE	1.048	0.985	1.055	0.934	0.983	0.97	0.956	0.963	0.954	0.93	0.953										0.975555	4.25	0.042	1
8260-1,4-DIFLUOROBENZENE																								
TRICHLOROETHENE	0.337	0.378	0.392	0.383	0.377	0.376	0.365	0.37	0.369	0.365	0.367										0.370964	3.77	0.038	1
1,2-DICHLOROPROPANE	0.323	0.328	0.368	0.348	0.327	0.346	0.334	0.334	0.336	0.335	0.331										0.337228	3.78	0.038	1
DIBROMOMETHANE	0.187	0.222	0.228	0.238	0.219	0.223	0.219	0.22	0.22	0.215	0.216										0.218717	5.65	0.057	1
BROMODICHLOROMETHANE	0.687	0.555	0.569	0.538	0.539	0.541	0.534	0.548	0.549	0.549	0.548										0.559629	7.73	0.077	1

Environmental Science Corporation
12065 Lebanon Rd., Mt. Juliet, TN 37122

INITIAL CALIBRATION SUMMARY

Instrument ID	: VOCMS20	Review Method	: 6200	Released By	: Amy Green
Method	: V820K23N	Review Protocol	: SM 20th	Released On	: 11/24/2014 2:54:38 PM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- V820K23N -- ICal Updated Time: Mon Nov 24 14:32:41 2014

Parameter	.25	.5	1	2	5.0	10	25	40	75	100	200	1A	2.5A	5A	7.5A	10A	12A	15A	17A	20A	AvgRF	%RSD	COD	Cur
a,a,a-Trifluorotoluene	0.53	0.525	0.529	0.528	0.511	0.512	0.502	0.491	0.498	0.48	0.468										0.50655	4.13	0.041	1
-CHLOROETHYL VINYL ETHER					0.12	0.141	0.163	0.152	0.174	0.17	0.18										0.157101	13.34	0.133	1
CIS-1,3-DICHLOROPROPENE	0.602	0.662	0.68	0.67	0.689	0.715	0.712	0.729	0.718	0.719	0.726										0.692868	5.49	0.055	1
4-METHYL-2-PENTANONE (MIBK)	0.121	0.127	0.133	0.127	0.134	0.145	0.15	0.152	0.151	0.148	0.149										0.139802	8.07	0.081	1
TOLUENE-D8	1.288	1.283	1.293	1.301	1.269	1.279	1.279	1.256	1.264	1.226	1.206										1.267614	2.29	0.023	1
TOLUENE	2.723	2.3	2.049	1.947	1.914	1.881	1.784	1.788	1.763	1.778	1.757										1.97112	15.11	0.151	1
TRANS-1,3-DICHLOROPROPENE	0.119	0.136	0.159	0.117	0.132	0.141	0.145	0.146	0.144	0.146	0.146										0.139262	8.89	0.089	1
8260-2-BROMO-1 -CHLOROPROPANE																								
1,1,2-TRICHLOROETHANE	1.778	2.227	2.022	1.997	1.993	2.03	1.928	2.009	1.938	1.952	1.975										1.986109	5.33	0.053	1
TETRACHLOROETHENE	1.645	1.501	1.534	1.488	1.466	1.506	1.425	1.477	1.446	1.475	1.504										1.496976	3.85	0.039	1
1,3-Dichloropropane	4.674	4.145	4.141	3.721	3.919	3.9	3.735	3.856	3.717	3.859	3.854										3.956501	7.06	0.071	1
2-HEXANONE	0.662	0.649	0.649	0.658	0.731	0.808	0.841	0.867	0.868	0.867	0.888										0.771638	13.18	0.132	1
CHLORODIBROMOMETHANE	1.893	1.977	1.836	1.824	1.882	1.929	1.911	1.969	1.943	1.998	2.02										1.925618	3.31	0.033	1
1,2-DIBROMOETHANE	1.727	1.836	1.857	1.821	1.796	1.887	1.84	1.896	1.853	1.884	1.905										1.845605	2.8	0.028	1
CHLOROBENZENE	7.028	6.715	6.213	6.291	6.465	6.702	6.374	6.634	6.401	6.582	6.536										6.540083	3.51	0.035	1
1,1,1,2-TETRACHLOROETHANE	2.146	1.96	1.924	1.901	1.954	2.031	1.902	1.996	1.998	2.011	1.975										1.98181	3.5	0.035	1
ETHYLBENZENE	3.398	3.065	3.133	3.007	3.18	3.504	3.452	3.575	3.525	3.644	3.583										3.369545	6.82	0.068	1
M&P-XYLENE	4.218	4.026	3.994	3.986	4.246	4.516	4.322	4.502	4.416	4.53	4.445										4.290983	4.95	0.05	1
O-XYLENE	3.812	3.926	3.55	3.691	3.975	4.248	4.137	4.375	4.307	4.399	4.259										4.061824	7.13	0.071	1
STYRENE			5.009	5.211	6.259	7.077	7.021	7.383	7.193	7.472	7.289										6.657048	14.2	0.142	1
Bromoform	0.7	0.925	1.116	0.975	1.048	1.072	1.053	1.111	1.088	1.122	1.112										1.029197	12.22	0.122	1
Isopropylbenzene	9.1	8.77	9.559999	9.28	10.18	10.89	10.61	11.2	11.06	11.21	10.63										10.22678	8.8	0.088	1

PDF Generated On: 11/24/2014 -- By: Amy Green

Environmental Science Corporation
12065 Lebanon Rd., Mt. Juliet, TN 37122

INITIAL CALIBRATION SUMMARY

Instrument ID	: VOCMS20	Review Method	: 6200	Released By	: Amy Green
Method	: V820K23N	Review Protocol	: SM 20th	Released On	: 11/24/2014 2:54:38 PM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- V820K23N -- ICal Updated Time: Mon Nov 24 14:32:41 2014

Parameter	.25	.5	1	2	5.0	10	25	40	75	100	200	1A	2.5A	5A	7.5A	10A	12A	15A	17A	20A	AvgRF	%RSD	COD	Cur
4-BROMOFLUOROBENZENE	2.606	2.639	2.615	2.63	2.638	2.684	2.64	2.67	2.619	2.613	2.499										2.622983	1.81	0.018	1
Bromobenzene	5.954	5.849	5.618	5.548	5.552	5.748	5.352	5.474	5.34	5.431	5.24										5.554978	4.01	0.04	1
1,1,2,2-TETRACHLOROETHANE	2.182	2.548	2.73	2.571	2.546	2.757	2.576	2.62	2.531	2.518	2.501										2.552658	5.82	0.058	1
1,2,3-TRICHLOROPROPANE	0.533	0.711	0.775	0.721	0.736	0.79	0.726	0.729	0.705	0.716	0.701										0.712963	9.23	0.092	1
TRANS-1,4-DICHLORO-2-BUTENE		0.716	0.687	0.737	0.742	0.77	0.763	0.782	0.756	0.762	0.767										0.748181	3.84	0.038	1
n-Propylbenzene	14.85	13.94	12.83	13.02	13.36	14.06	13.55	13.93	13.77	13.99	13.2										13.68314	4.17	0.042	1
4-ETHYLTOLUENE	11.3	10.38	10.75	9.969999	10.57	11.33	10.92	11.43	11.17	11.3	10.69										10.89284	4.28	0.043	1
2-Chlorotoluene	2.512	2.668	2.49	2.472	2.594	2.696	2.524	2.593	2.507	2.546	2.444										2.549634	3.13	0.031	1
4-Chlorotoluene	8.694	8.058	8.21	8.264	8.446	8.873	8.548	8.842	8.59	8.692	8.314										8.502878	3.14	0.031	1
1,3,5-Trimethylbenzene	9.134	8.225	8.57	8.666	9.019	9.734	9.33	9.65	9.549	9.669	9.129										9.152332	5.46	0.055	1
tert-Butylbenzene	6.805	6.595	6.597	6.601	7.092	7.546	7.338	7.648	7.611	7.687	7.085										7.145857	6.23	0.062	1
1,2,4-Trimethylbenzene	9.278	7.956	8.157	8.656	9.176	9.918	9.665	9.853	9.721	9.757	9.195										9.211881	7.42	0.074	1
sec-Butylbenzene	10.37	10.57	10.44	10.76	11.72	12.59	11.9	12.5	12.41	12.38	11.51										11.56038	7.62	0.076	1
1,3-DICHLOROBENZENE	5.069	4.941	4.891	4.604	4.803	5.07	4.797	4.908	4.746	4.789	4.531										4.831675	3.51	0.035	1
p-Isopropyltoluene	7.56	7.8	7.92	8.63	9.26	9.98	9.639999	10.12	10.03	10.12	9.42										9.13507	10.83	0.108	1
DICYCLOPENTADIENE	9.28	10.13	10.53	11.07	11.91	12.75	12.23	12.86	12.92	13.04	12.25										11.7239	10.94	0.109	1
8260-1,4-DICHLOROBENZENE-D4																								
1,4-DICHLOROBENZENE	2.336	2.204	2.145	2.021	2.024	1.998	1.944	1.99	1.966	1.964	2.03										2.056532	5.92	0.059	1
1,2,3-TRIMETHYLBENZENE	4.098	3.738	4.046	3.998	3.996	4.104	3.998	4.176	4.149	4.106	4.225										4.057794	3.21	0.032	1
1,2-DICHLOROBENZENE	2.039	1.959	1.766	1.839	1.733	1.778	1.758	1.815	1.798	1.782	1.816										1.825596	5.06	0.051	1
n-Butylbenzene	4.199	3.765	3.493	3.604	3.745	3.826	3.874	4.068	4.03	3.964	3.866										3.857599	5.32	0.053	1
1,2-Dibromo-3-chloropropane		0.103	0.152	0.127	0.145	0.148	0.164	0.158	0.161	0.157	0.173										0.148913	13.7	0.137	1

PDF Generated On: 11/24/2014 -- By: Amy Green

Environmental Science Corporation
12065 Lebanon Rd., Mt. Juliet, TN 37122

INITIAL CALIBRATION SUMMARY

Instrument ID	: VOCMS20	Review Method	: 6200	Released By	: Amy Green
Method	: V820K23N	Review Protocol	: SM 20th	Released On	: 11/24/2014 2:54:38 PM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- V820K23N -- ICal Updated Time: Mon Nov 24 14:32:41 2014

Parameter	.25	.5	1	2	5.0	10	25	40	75	100	200	1A	2.5A	5A	7.5A	10A	12A	15A	17A	20A	AvgRF	%RSD	COD	Cur
1,2,4-Trichlorobenzene	1.17	1.048	1.029	0.929	1.035	1.012	1.081	1.116	1.088	1.085	1.108										1.063793	5.98	0.06	1
HEXACHLORO-1,3-BUTADIENE	0.567	0.587	0.545	0.528	0.56	0.557	0.54	0.561	0.565	0.547	0.53										0.553258	3.17	0.032	1
Naphthalene	3.153	2.548	2.399	2.268	2.341	2.531	2.753	2.904	2.895	2.827	3.062										2.698171	11.07	0.111	1
1,2,3-Trichlorobenzene	0.916	0.934	0.945	0.902	0.957	0.989	1.009	1.026	0.997	0.983	1.015										0.970296	4.32	0.043	1
1-Methylnaphthalene		1.286	1.245	1.131	1.136	1.266	1.503	1.57	1.558	1.55	1.643										1.388868	14.04	0.14	1
2-Methylnaphthalene	1.383	1.153	1.051	0.97	1.034	1.152	1.365	1.384	1.341	1.321	1.376										1.230002	13.05	0.131	1
AP9-PENTAFLUOROBENZENE																								
ETHANOL												0.009	0.008	0.008	0.007	0.006	0.007	0.008	0.007	0.008	0.007565	9.6	0.096	1
Bromoethane												0.481	0.493	0.521	0.479	0.426	0.474	0.468	0.455	0.461	0.473093	5.53	0.055	1
2-PROPANOL																					0	0	0	1
Methyl Acetate												0.54	0.548	0.573	0.517	0.472	0.519	0.544	0.535	0.542	0.53223	5.26	0.053	1
ACETONITRILE												0.105	0.106	0.114	0.103	0.093	0.103	0.109	0.107	0.108	0.105414	5.35	0.053	1
ALLYL CHLORIDE												0.376	0.39	0.421	0.374	0.343	0.371	0.372	0.369	0.366	0.375877	5.6	0.056	1
tert-BUTYL ALCOHOL												0.137	0.135	0.133	0.113	0.098	0.105	0.114	0.114	0.111	0.11795	11.81	0.118	1
chloroprene												0.618	0.656	0.723	0.663	0.605	0.664	0.669	0.649	0.66	0.656369	5.06	0.051	1
ETHYL TERT-BUTYL ETHER												2.304	2.322	2.53	2.276	2.075	2.278	2.32	2.315	2.357	2.308566	5.05	0.05	1
PROPIONITRILE												0.104	0.108	0.114	0.103	0.091	0.102	0.108	0.105	0.107	0.104748	5.82	0.058	1
Ethyl Acetate												0.716	0.752	0.801	0.718	0.663	0.73	0.769	0.749	0.765	0.740472	5.33	0.053	1
METHACRYLONITRILE												0.31	0.315	0.331	0.298	0.274	0.301	0.316	0.308	0.312	0.307308	5.13	0.051	1
Cyclohexane												0.752	0.845	0.941	0.864	0.786	0.85	0.843	0.808	0.836	0.835936	6.35	0.063	1
tert-butyl formate												0.378	0.428	0.485	0.47	0.456	0.484	0.5	0.502	0.542	0.471657	10.06	0.101	1
ISOBUTANOL												0.034	0.037	0.04	0.039	0.036	0.038	0.04	0.04	0.042	0.038368	5.9	0.059	1

PDF Generated On: 11/24/2014 -- By: Amy Green

Environmental Science Corporation
12065 Lebanon Rd., Mt. Juliet, TN 37122

INITIAL CALIBRATION SUMMARY

Instrument ID	: VOCMS20	Review Method	: 6200	Released By	: Amy Green
Method	: V820K23N	Review Protocol	: SM 20th	Released On	: 11/24/2014 2:54:38 PM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- V820K23N -- ICal Updated Time: Mon Nov 24 14:32:41 2014

Parameter	.25	.5	1	2	5.0	10	25	40	75	100	200	1A	2.5A	5A	7.5A	10A	12A	15A	17A	20A	AvgRF	%RSD	COD	Cur
-Amyl Alcohol												0.048	0.055	0.06	0.05	0.044	0.049	0.054	0.053	0.054	0.051723	8.78	0.088	1
TERT-AMYL METHYL ETHER												2.089	2.033	2.217	1.985	1.848	1.991	2.012	2.016	2.073	2.029213	4.86	0.049	1
AP9-1,4-DIFLUOROBENZENE																								
N-BUTANOL												0.01	0.011	0.012	0.011	0.01	0.011	0.012	0.012	0.012	0.011295	8.72	0.087	1
Methyl Cyclohexane												1.103	0.8	0.738	0.617	0.55	0.589	0.581	0.565	0.57	0.679202	26.59	0.996	0
-nitropropane												0.091	0.088	0.092	0.085	0.079	0.086	0.091	0.093	0.094	0.088716	5.66	0.057	1
METHYL METHACRYLATE												0.34	0.35	0.389	0.349	0.318	0.352	0.38	0.364	0.365	0.356259	5.95	0.06	1
1,4-DIOXANE												0.003	0.004	0.004	0.004	0.003	0.004	0.004	0.004	0.004	0.00358	7.63	0.076	1
n-octane												0.275	0.309	0.328	0.294	0.278	0.298	0.309	0.287	0.292	0.296598	5.59	0.056	1
3,3-DIMETHYL-1-BUTANOL												0.028	0.027	0.029	0.025	0.023	0.027	0.029	0.029	0.029	0.027507	7.34	0.073	1
AP9-2-BROMO-1 -CHLOROPROPANE																								
ETHYL METHACRYLATE												2.747	2.843	3.109	2.938	2.735	3.139	3.149	3.123	3.206	2.99876	6.16	0.062	1
CIS-1,4-DICHLORO-2-BUTENE												0.771	0.825	0.824	0.783	0.72	0.823	0.824	0.797	0.83	0.799643	4.6	0.046	1
Cyclohexanone																					0	0	0	1
PENTACHLOROETHANE												1.475	1.362	1.431	1.486	1.371	1.296	1.486	1.142	1.513	1.395825	8.54	0.085	1
Hexachloroethane												1.712	1.778	1.891	1.703	1.526	1.778	1.707	1.644	1.742	1.719916	5.83	0.058	1
AP9-1,4-DICHLOROBENZENE-D4																								

PDF Generated On: 11/24/2014 - By: Amy Green

Environmental Science Corporation
12065 Lebanon Rd., Mt. Juliet, TN 37122

INITIAL CALIBRATION SUMMARY

Instrument ID	: VOCMS20	Review Method	: 601-602	Released By	: Amy Green
Method	: V820K23N	Review Protocol	: EPA	Released On	: 11/24/2014 2:50:46 PM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- V820K23N -- ICal Updated Time: Mon Nov 24 14:32:41 2014

Parameter	.25	.5	1	2	5.0	10	25	40	75	100	200	1A	2.5A	5A	7.5A	10A	12A	15A	17A	20A	AvgRF	%RSD	COD	Cur
8260-PENTAFLUOROBENZENE																								
TPH (GC/MS) LOW FRACTION																					0	0	0	1
PROPENE				0.236	0.181	0.192	0.175	0.172	0.178	0.172	0.173										0.184855	11.8	0.118	1
DICHLORODIFLUOROMETHANE	0.701	0.748	0.637	0.664	0.631	0.658	0.634	0.655	0.663	0.624	0.638										0.659327	5.52	0.055	1
CHLOROMETHANE	1.274	1.157	1.138	1.12	1.077	1.085	1.041	1.062	1.077	1.045	1.061										1.103495	6.15	0.061	1
VINYL CHLORIDE	0.857	0.982	0.968	0.979	0.911	0.947	0.89	0.924	0.921	0.892	0.907										0.925281	4.33	0.043	1
1,3-BUTADIENE	0.87	0.806	0.793	0.715	0.693	0.683	0.667	0.691	0.704	0.67	0.699										0.726447	9.12	0.091	1
BROMOMETHANE	0.748	0.636	0.587	0.594	0.557	0.572	0.526	0.543	0.551	0.535	0.54										0.580908	11.03	0.11	1
CHLOROETHANE		0.121	0.18	0.194	0.165	0.179	0.162	0.164	0.163	0.16	0.161										0.164754	11.42	0.114	1
TRICHLOROFLUOROMETHANE	0.907	0.942	0.841	0.873	0.836	0.857	0.815	0.833	0.845	0.82	0.849										0.856087	4.46	0.045	1
DICHLOROFLUOROMETHANE	1.324	1.413	1.308	1.248	1.193	1.243	1.168	1.198	1.213	1.177	1.193										1.243407	6.1	0.061	1
ETHYL ETHER	0.726	0.717	0.837	0.676	0.691	0.703	0.682	0.678	0.677	0.657	0.667										0.701073	7.07	0.071	1
ACROLEIN	0.126	0.117	0.111	0.105	0.109	0.116	0.112	0.114	0.111	0.107	0.108										0.112378	5.27	0.053	1
1,1-DICHLOROETHENE	1.164	1.012	1.112	1.125	1.024	1.04	1.019	1.025	1.032	0.986	1.032										1.051869	5.27	0.053	1
1,1,2 -TRICHLOROTRIFLUOROETHANE	0.573	0.683	0.585	0.571	0.577	0.545	0.552	0.567	0.579	0.552	0.578										0.57832	6.41	0.064	1
ACETONE			0.267	0.228	0.206	0.203	0.195	0.198	0.19	0.185	0.17										0.204617	13.78	0.138	1
IODOMETHANE	0.991	1.094	1.092	1.031	1	1.021	0.988	1.003	1.022	0.998	1.057										1.02689	3.73	0.037	1
CARBON DISULFIDE	2.839	2.723	2.677	2.555	2.42	2.428	2.391	2.432	2.444	2.35	2.451										2.519193	6.29	0.063	1
METHYLENE CHLORIDE	0.88	0.895	0.953	0.892	0.855	0.873	0.838	0.841	0.848	0.821	0.837										0.866616	4.34	0.043	1
ACRYLONITRILE	0.261	0.274	0.28	0.264	0.265	0.279	0.283	0.282	0.281	0.272	0.28										0.2746	2.91	0.029	1
n-Hexane	0.876	0.847	0.82	0.773	0.759	0.74	0.743	0.767	0.747	0.732	0.744										0.777059	6.25	0.063	1
TRANS-1,2-DICHLOROETHENE	0.831	0.803	0.843	0.777	0.74	0.749	0.726	0.749	0.762	0.734	0.761										0.770634	5.09	0.051	1
METHYL TERT-BUTYL ETHER	1.972	2.236	2.181	1.989	2.04	2.123	2.134	2.163	2.144	2.087	2.154										2.111081	3.87	0.039	1

PDF Generated On: 11/24/2014 - By: Amy Green

Environmental Science Corporation
12065 Lebanon Rd., Mt. Juliet, TN 37122

INITIAL CALIBRATION SUMMARY

Instrument ID	: VOCMS20	Review Method	: 601-602	Released By	: Amy Green
Method	: V820K23N	Review Protocol	: EPA	Released On	: 11/24/2014 2:50:46 PM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- V820K23N -- ICal Updated Time: Mon Nov 24 14:32:41 2014

Parameter	.25	.5	1	2	5.0	10	25	40	75	100	200	1A	2.5A	5A	7.5A	10A	12A	15A	17A	20A	AvgRF	%RSD	COD	Cur
1,1-DICHLOROETHANE	1.601	1.498	1.563	1.528	1.494	1.509	1.457	1.486	1.483	1.446	1.492										1.505273	2.98	0.03	1
VINYL ACETATE	1.127	1.236	1.311	1.167	1.246	1.233	1.211	1.194	1.162	1.113	1.111										1.191912	5.28	0.053	1
DI-ISOPROPYL ETHER	2.898	2.972	3.078	3.017	2.987	3.087	3.084	3.153	3.179	3.123	3.215										3.072117	3.12	0.031	1
2,2-Dichloropropane	0.844	0.703	0.739	0.806	0.745	0.742	0.705	0.693	0.718	0.687	0.661										0.731005	7.32	0.073	1
CIS-1,2-DICHLOROETHENE	0.842	0.867	0.869	0.824	0.831	0.87	0.836	0.846	0.845	0.829	0.845										0.845924	1.93	0.019	1
2-BUTANONE (MEK)	0.06	0.09	0.084	0.076	0.083	0.083	0.085	0.087	0.085	0.083	0.085										0.081839	9.84	0.098	1
BROMOCHLOROMETHANE	0.537	0.458	0.483	0.464	0.445	0.458	0.438	0.45	0.454	0.436	0.447										0.460799	6.16	0.062	1
TETRAHYDROFURAN	0.288	0.26	0.283	0.234	0.234	0.235	0.24	0.238	0.23	0.23	0.231										0.245619	8.77	0.088	1
CHLOROFORM	1.407	1.495	1.437	1.346	1.354	1.351	1.317	1.327	1.331	1.299	1.331										1.363297	4.33	0.043	1
DIBROMOFLUOROMETHANE	0.554	0.56	0.557	0.544	0.54	0.554	0.539	0.544	0.552	0.537	0.552										0.548371	1.43	0.014	1
1,1,1-TRICHLOROETHANE	1.061	0.922	1.019	0.978	0.931	0.943	0.912	0.933	0.95	0.911	0.932										0.953869	4.96	0.05	1
CARBON TETRACHLORIDE	0.724	0.789	0.781	0.788	0.828	0.735	0.735	0.743	0.77	0.747	0.771										0.764532	4.06	0.041	1
1,1-Dichloropropene	1.055	1.108	0.957	0.999	1.019	1.001	1.011	1.038	1.048	1.012	1.051										1.027152	3.83	0.038	1
2,2,4-TRIMETHYLPENTANE	3.265	3.409	2.997	3.002	3.056	3.145	3.06	3.198	3.21	3.061	3.21										3.146702	4.02	0.04	1
HEPTANE	1.531	1.384	1.391	1.223	1.354	1.394	1.371	1.479	1.448	1.444	1.488										1.409812	5.89	0.059	1
BENZENE	3.627	3.727	3.693	3.51	3.38	3.404	3.313	3.393	3.375	3.294	3.393										3.464597	4.38	0.044	1
1,2-DICHLOROETHANE	1.048	0.985	1.055	0.934	0.983	0.97	0.956	0.963	0.954	0.93	0.953										0.975555	4.25	0.042	1
8260-1,4-DIFLUOROBENZENE																								
TRICHLOROETHENE	0.337	0.378	0.392	0.383	0.377	0.376	0.365	0.37	0.369	0.365	0.367										0.370964	3.77	0.038	1
1,2-DICHLOROPROPANE	0.323	0.328	0.368	0.348	0.327	0.346	0.334	0.334	0.336	0.335	0.331										0.337228	3.78	0.038	1
DIBROMOMETHANE	0.187	0.222	0.228	0.238	0.219	0.223	0.219	0.22	0.22	0.215	0.216										0.218717	5.65	0.057	1
BROMODICHLOROMETHANE	0.687	0.555	0.569	0.538	0.539	0.541	0.534	0.548	0.549	0.549	0.548										0.559629	7.73	0.077	1

PDF Generated On: 11/24/2014 -- By: Amy Green

Environmental Science Corporation
12065 Lebanon Rd., Mt. Juliet, TN 37122

INITIAL CALIBRATION SUMMARY

Instrument ID	: VOCMS20	Review Method	: 601-602	Released By	: Amy Green
Method	: V820K23N	Review Protocol	: EPA	Released On	: 11/24/2014 2:50:46 PM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- V820K23N -- ICal Updated Time: Mon Nov 24 14:32:41 2014

Parameter	.25	.5	1	2	5.0	10	25	40	75	100	200	1A	2.5A	5A	7.5A	10A	12A	15A	17A	20A	AvgRF	%RSD	COD	Cur
a,a,a-Trifluorotoluene	0.53	0.525	0.529	0.528	0.511	0.512	0.502	0.491	0.498	0.48	0.468										0.50655	4.13	0.041	1
-CHLOROETHYL VINYL ETHER					0.12	0.141	0.163	0.152	0.174	0.17	0.18										0.157101	13.34	0.133	1
CIS-1,3-DICHLOROPROPENE	0.602	0.662	0.68	0.67	0.689	0.715	0.712	0.729	0.718	0.719	0.726										0.692868	5.49	0.055	1
4-METHYL-2-PENTANONE (MIBK)	0.121	0.127	0.133	0.127	0.134	0.145	0.15	0.152	0.151	0.148	0.149										0.139802	8.07	0.081	1
TOLUENE-D8	1.288	1.283	1.293	1.301	1.269	1.279	1.279	1.256	1.264	1.226	1.206										1.267614	2.29	0.023	1
TOLUENE	2.723	2.3	2.049	1.947	1.914	1.881	1.784	1.788	1.763	1.778	1.757										1.97112	15.11	0.151	1
TRANS-1,3-DICHLOROPROPENE	0.119	0.136	0.159	0.117	0.132	0.141	0.145	0.146	0.144	0.146	0.146										0.139262	8.89	0.089	1
8260-2-BROMO-1 -CHLOROPROPANE																								
1,1,2-TRICHLOROETHANE	1.778	2.227	2.022	1.997	1.993	2.03	1.928	2.009	1.938	1.952	1.975										1.986109	5.33	0.053	1
TETRACHLOROETHENE	1.645	1.501	1.534	1.488	1.466	1.506	1.425	1.477	1.446	1.475	1.504										1.496976	3.85	0.039	1
1,3-Dichloropropane	4.674	4.145	4.141	3.721	3.919	3.9	3.735	3.856	3.717	3.859	3.854										3.956501	7.06	0.071	1
2-HEXANONE	0.662	0.649	0.649	0.658	0.731	0.808	0.841	0.867	0.868	0.867	0.888										0.771638	13.18	0.132	1
CHLORODIBROMOMETHANE	1.893	1.977	1.836	1.824	1.882	1.929	1.911	1.969	1.943	1.998	2.02										1.925618	3.31	0.033	1
1,2-DIBROMOETHANE	1.727	1.836	1.857	1.821	1.796	1.887	1.84	1.896	1.853	1.884	1.905										1.845605	2.8	0.028	1
CHLOROBENZENE	7.028	6.715	6.213	6.291	6.465	6.702	6.374	6.634	6.401	6.582	6.536										6.540083	3.51	0.035	1
1,1,1,2-TETRACHLOROETHANE	2.146	1.96	1.924	1.901	1.954	2.031	1.902	1.996	1.998	2.011	1.975										1.98181	3.5	0.035	1
ETHYLBENZENE	3.398	3.065	3.133	3.007	3.18	3.504	3.452	3.575	3.525	3.644	3.583										3.369545	6.82	0.068	1
M&P-XYLENE	4.218	4.026	3.994	3.986	4.246	4.516	4.322	4.502	4.416	4.53	4.445										4.290983	4.95	0.05	1
O-XYLENE	3.812	3.926	3.55	3.691	3.975	4.248	4.137	4.375	4.307	4.399	4.259										4.061824	7.13	0.071	1
STYRENE			5.009	5.211	6.259	7.077	7.021	7.383	7.193	7.472	7.289										6.657048	14.2	0.142	1
Bromoform	0.7	0.925	1.116	0.975	1.048	1.072	1.053	1.111	1.088	1.122	1.112										1.029197	12.22	0.122	1
Isopropylbenzene	9.1	8.77	9.559999	9.28	10.18	10.89	10.61	11.2	11.06	11.21	10.63										10.22678	8.8	0.088	1

PDF Generated On: 11/24/2014 -- By: Amy Green

Environmental Science Corporation
12065 Lebanon Rd., Mt. Juliet, TN 37122

INITIAL CALIBRATION SUMMARY

Instrument ID	: VOCMS20	Review Method	: 601-602	Released By	: Amy Green
Method	: V820K23N	Review Protocol	: EPA	Released On	: 11/24/2014 2:50:46 PM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- V820K23N -- ICal Updated Time: Mon Nov 24 14:32:41 2014

Parameter	.25	.5	1	2	5.0	10	25	40	75	100	200	1A	2.5A	5A	7.5A	10A	12A	15A	17A	20A	AvgRF	%RSD	COD	Cur
4-BROMOFLUOROBENZENE	2.606	2.639	2.615	2.63	2.638	2.684	2.64	2.67	2.619	2.613	2.499										2.622983	1.81	0.018	1
Bromobenzene	5.954	5.849	5.618	5.548	5.552	5.748	5.352	5.474	5.34	5.431	5.24										5.554978	4.01	0.04	1
1,1,2,2-TETRACHLOROETHANE	2.182	2.548	2.73	2.571	2.546	2.757	2.576	2.62	2.531	2.518	2.501										2.552658	5.82	0.058	1
1,2,3-TRICHLOROPROPANE	0.533	0.711	0.775	0.721	0.736	0.79	0.726	0.729	0.705	0.716	0.701										0.712963	9.23	0.092	1
TRANS-1,4-DICHLORO-2-BUTENE		0.716	0.687	0.737	0.742	0.77	0.763	0.782	0.756	0.762	0.767										0.748181	3.84	0.038	1
n-Propylbenzene	14.85	13.94	12.83	13.02	13.36	14.06	13.55	13.93	13.77	13.99	13.2										13.68314	4.17	0.042	1
4-ETHYLTOLUENE	11.3	10.38	10.75	9.969999	10.57	11.33	10.92	11.43	11.17	11.3	10.69										10.89284	4.28	0.043	1
2-Chlorotoluene	2.512	2.668	2.49	2.472	2.594	2.696	2.524	2.593	2.507	2.546	2.444										2.549634	3.13	0.031	1
4-Chlorotoluene	8.694	8.058	8.21	8.264	8.446	8.873	8.548	8.842	8.59	8.692	8.314										8.502878	3.14	0.031	1
1,3,5-Trimethylbenzene	9.134	8.225	8.57	8.666	9.019	9.734	9.33	9.65	9.549	9.669	9.129										9.152332	5.46	0.055	1
tert-Butylbenzene	6.805	6.595	6.597	6.601	7.092	7.546	7.338	7.648	7.611	7.687	7.085										7.145857	6.23	0.062	1
1,2,4-Trimethylbenzene	9.278	7.956	8.157	8.656	9.176	9.918	9.665	9.853	9.721	9.757	9.195										9.211881	7.42	0.074	1
sec-Butylbenzene	10.37	10.57	10.44	10.76	11.72	12.59	11.9	12.5	12.41	12.38	11.51										11.56038	7.62	0.076	1
1,3-DICHLOROBENZENE	5.069	4.941	4.891	4.604	4.803	5.07	4.797	4.908	4.746	4.789	4.531										4.831675	3.51	0.035	1
p-Isopropyltoluene	7.56	7.8	7.92	8.63	9.26	9.98	9.639999	10.12	10.03	10.12	9.42										9.1350 7	10.83	0.108	1
DICYCLOPENTADIENE	9.28	10.13	10.53	11.07	11.91	12.75	12.23	12.86	12.92	13.04	12.25										11.723 9	10.94	0.109	1
8260-1,4-DICHLOROBENZENE-D4																								
1,4-DICHLOROBENZENE	2.336	2.204	2.145	2.021	2.024	1.998	1.944	1.99	1.966	1.964	2.03										2.056532	5.92	0.059	1
1,2,3-TRIMETHYLBENZENE	4.098	3.738	4.046	3.998	3.996	4.104	3.998	4.176	4.149	4.106	4.225										4.057794	3.21	0.032	1
1,2-DICHLOROBENZENE	2.039	1.959	1.766	1.839	1.733	1.778	1.758	1.815	1.798	1.782	1.816										1.825596	5.06	0.051	1
n-Butylbenzene	4.199	3.765	3.493	3.604	3.745	3.826	3.874	4.068	4.03	3.964	3.866										3.857599	5.32	0.053	1
1,2-Dibromo-3-chloropropane		0.103	0.152	0.127	0.145	0.148	0.164	0.158	0.161	0.157	0.173										0.148913	13.7	0.137	1

PDF Generated On: 11/24/2014 -- By: Amy Green

Environmental Science Corporation
12065 Lebanon Rd., Mt. Juliet, TN 37122

INITIAL CALIBRATION SUMMARY

Instrument ID	: VOCMS20	Review Method	: 601-602	Released By	: Amy Green
Method	: V820K23N	Review Protocol	: EPA	Released On	: 11/24/2014 2:50:46 PM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- V820K23N -- ICal Updated Time: Mon Nov 24 14:32:41 2014

Parameter	.25	.5	1	2	5.0	10	25	40	75	100	200	1A	2.5A	5A	7.5A	10A	12A	15A	17A	20A	AvgRF	%RSD	COD	Cur
1,2,4-Trichlorobenzene	1.17	1.048	1.029	0.929	1.035	1.012	1.081	1.116	1.088	1.085	1.108										1.063793	5.98	0.06	1
HEXACHLORO-1,3-BUTADIENE	0.567	0.587	0.545	0.528	0.56	0.557	0.54	0.561	0.565	0.547	0.53										0.553258	3.17	0.032	1
Naphthalene	3.153	2.548	2.399	2.268	2.341	2.531	2.753	2.904	2.895	2.827	3.062										2.698171	11.07	0.111	1
1,2,3-Trichlorobenzene	0.916	0.934	0.945	0.902	0.957	0.989	1.009	1.026	0.997	0.983	1.015										0.970296	4.32	0.043	1
1-Methylnaphthalene		1.286	1.245	1.131	1.136	1.266	1.503	1.57	1.558	1.55	1.643										1.388868	14.04	0.14	1
2-Methylnaphthalene	1.383	1.153	1.051	0.97	1.034	1.152	1.365	1.384	1.341	1.321	1.376										1.230002	13.05	0.131	1
AP9-PENTAFLUOROBENZENE																								
ETHANOL												0.009	0.008	0.008	0.007	0.006	0.007	0.008	0.007	0.008	0.007565	9.6	0.096	1
Bromoethane												0.481	0.493	0.521	0.479	0.426	0.474	0.468	0.455	0.461	0.473093	5.53	0.055	1
2-PROPANOL																					0	0	0	1
Methyl Acetate												0.54	0.548	0.573	0.517	0.472	0.519	0.544	0.535	0.542	0.53223	5.26	0.053	1
ACETONITRILE												0.105	0.106	0.114	0.103	0.093	0.103	0.109	0.107	0.108	0.105414	5.35	0.053	1
ALLYL CHLORIDE												0.376	0.39	0.421	0.374	0.343	0.371	0.372	0.369	0.366	0.375877	5.6	0.056	1
tert-BUTYL ALCOHOL												0.137	0.135	0.133	0.113	0.098	0.105	0.114	0.114	0.111	0.11795	11.81	0.118	1
chloroprene												0.618	0.656	0.723	0.663	0.605	0.664	0.669	0.649	0.66	0.656369	5.06	0.051	1
ETHYL TERT-BUTYL ETHER												2.304	2.322	2.53	2.276	2.075	2.278	2.32	2.315	2.357	2.308566	5.05	0.05	1
PROPIONITRILE												0.104	0.108	0.114	0.103	0.091	0.102	0.108	0.105	0.107	0.104748	5.82	0.058	1
Ethyl Acetate												0.716	0.752	0.801	0.718	0.663	0.73	0.769	0.749	0.765	0.740472	5.33	0.053	1
METHACRYLONITRILE												0.31	0.315	0.331	0.298	0.274	0.301	0.316	0.308	0.312	0.307308	5.13	0.051	1
Cyclohexane												0.752	0.845	0.941	0.864	0.786	0.85	0.843	0.808	0.836	0.835936	6.35	0.063	1
tert-butyl formate												0.378	0.428	0.485	0.47	0.456	0.484	0.5	0.502	0.542	0.471657	10.06	0.101	1
ISOBUTANOL												0.034	0.037	0.04	0.039	0.036	0.038	0.04	0.04	0.042	0.038368	5.9	0.059	1

PDF Generated On: 11/24/2014 -- By: Amy Green

Environmental Science Corporation
12065 Lebanon Rd., Mt. Juliet, TN 37122

INITIAL CALIBRATION SUMMARY

Instrument ID	: VOCMS20	Review Method	: 601-602	Released By	: Amy Green
Method	: V820K23N	Review Protocol	: EPA	Released On	: 11/24/2014 2:50:46 PM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- V820K23N -- ICal Updated Time: Mon Nov 24 14:32:41 2014

Parameter	.25	.5	1	2	5.0	10	25	40	75	100	200	1A	2.5A	5A	7.5A	10A	12A	15A	17A	20A	AvgRF	%RSD	COD	Cur
-Amyl Alcohol												0.048	0.055	0.06	0.05	0.044	0.049	0.054	0.053	0.054	0.051723	8.78	0.088	1
TERT-AMYL METHYL ETHER												2.089	2.033	2.217	1.985	1.848	1.991	2.012	2.016	2.073	2.029213	4.86	0.049	1
AP9-1,4-DIFLUOROBENZENE																								
N-BUTANOL												0.01	0.011	0.012	0.011	0.01	0.011	0.012	0.012	0.012	0.011295	8.72	0.087	1
Methyl Cyclohexane												1.103	0.8	0.738	0.617	0.55	0.589	0.581	0.565	0.57	0.679202	26.59	0.996	0
-nitropropane												0.091	0.088	0.092	0.085	0.079	0.086	0.091	0.093	0.094	0.088716	5.66	0.057	1
METHYL METHACRYLATE												0.34	0.35	0.389	0.349	0.318	0.352	0.38	0.364	0.365	0.356259	5.95	0.06	1
1,4-DIOXANE												0.003	0.004	0.004	0.004	0.003	0.004	0.004	0.004	0.004	0.00358	7.63	0.076	1
n-octane												0.275	0.309	0.328	0.294	0.278	0.298	0.309	0.287	0.292	0.296598	5.59	0.056	1
3,3-DIMETHYL-1-BUTANOL												0.028	0.027	0.029	0.025	0.023	0.027	0.029	0.029	0.029	0.027507	7.34	0.073	1
AP9-2-BROMO-1 -CHLOROPROPANE																								
ETHYL METHACRYLATE												2.747	2.843	3.109	2.938	2.735	3.139	3.149	3.123	3.206	2.99876	6.16	0.062	1
CIS-1,4-DICHLORO-2-BUTENE												0.771	0.825	0.824	0.783	0.72	0.823	0.824	0.797	0.83	0.799643	4.6	0.046	1
Cyclohexanone																					0	0	0	1
PENTACHLOROETHANE												1.475	1.362	1.431	1.486	1.371	1.296	1.486	1.142	1.513	1.395825	8.54	0.085	1
Hexachloroethane												1.712	1.778	1.891	1.703	1.526	1.778	1.707	1.644	1.742	1.719916	5.83	0.058	1
AP9-1,4-DICHLOROBENZENE-D4																								

PDF Generated On: 11/24/2014 - By: Amy Green

Environmental Science Corporation
12065 Lebanon Rd., Mt. Juliet, TN 37122

INITIAL CALIBRATION SUMMARY

Instrument ID	: VOCMS20	Review Method	: 624	Released By	: Amy Green
Method	: V820K23N	Review Protocol	: EPA	Released On	: 11/24/2014 2:51:39 PM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- V820K23N -- ICal Updated Time: Mon Nov 24 14:32:41 2014

Parameter	.25	.5	1	2	5.0	10	25	40	75	100	200	1A	2.5A	5A	7.5A	10A	12A	15A	17A	20A	AvgRF	%RSD	COD	Cur
8260-PENTAFLUOROBENZENE																								
TPH (GC/MS) LOW FRACTION																					0	0	0	1
PROPENE				0.236	0.181	0.192	0.175	0.172	0.178	0.172	0.173										0.184855	11.8	0.118	1
DICHLORODIFLUOROMETHANE	0.701	0.748	0.637	0.664	0.631	0.658	0.634	0.655	0.663	0.624	0.638										0.659327	5.52	0.055	1
CHLOROMETHANE	1.274	1.157	1.138	1.12	1.077	1.085	1.041	1.062	1.077	1.045	1.061										1.103495	6.15	0.061	1
VINYL CHLORIDE	0.857	0.982	0.968	0.979	0.911	0.947	0.89	0.924	0.921	0.892	0.907										0.925281	4.33	0.043	1
1,3-BUTADIENE	0.87	0.806	0.793	0.715	0.693	0.683	0.667	0.691	0.704	0.67	0.699										0.726447	9.12	0.091	1
BROMOMETHANE	0.748	0.636	0.587	0.594	0.557	0.572	0.526	0.543	0.551	0.535	0.54										0.580908	11.03	0.11	1
CHLOROETHANE		0.121	0.18	0.194	0.165	0.179	0.162	0.164	0.163	0.16	0.161										0.164754	11.42	0.114	1
TRICHLOROFLUOROMETHANE	0.907	0.942	0.841	0.873	0.836	0.857	0.815	0.833	0.845	0.82	0.849										0.856087	4.46	0.045	1
DICHLOROFLUOROMETHANE	1.324	1.413	1.308	1.248	1.193	1.243	1.168	1.198	1.213	1.177	1.193										1.243407	6.1	0.061	1
ETHYL ETHER	0.726	0.717	0.837	0.676	0.691	0.703	0.682	0.678	0.677	0.657	0.667										0.701073	7.07	0.071	1
ACROLEIN	0.126	0.117	0.111	0.105	0.109	0.116	0.112	0.114	0.111	0.107	0.108										0.112378	5.27	0.053	1
1,1-DICHLOROETHENE	1.164	1.012	1.112	1.125	1.024	1.04	1.019	1.025	1.032	0.986	1.032										1.051869	5.27	0.053	1
1,1,2 -TRICHLOROTRIFLUOROETHANE	0.573	0.683	0.585	0.571	0.577	0.545	0.552	0.567	0.579	0.552	0.578										0.57832	6.41	0.064	1
ACETONE			0.267	0.228	0.206	0.203	0.195	0.198	0.19	0.185	0.17										0.204617	13.78	0.138	1
IODOMETHANE	0.991	1.094	1.092	1.031	1	1.021	0.988	1.003	1.022	0.998	1.057										1.02689	3.73	0.037	1
CARBON DISULFIDE	2.839	2.723	2.677	2.555	2.42	2.428	2.391	2.432	2.444	2.35	2.451										2.519193	6.29	0.063	1
METHYLENE CHLORIDE	0.88	0.895	0.953	0.892	0.855	0.873	0.838	0.841	0.848	0.821	0.837										0.866616	4.34	0.043	1
ACRYLONITRILE	0.261	0.274	0.28	0.264	0.265	0.279	0.283	0.282	0.281	0.272	0.28										0.2746	2.91	0.029	1
n-Hexane	0.876	0.847	0.82	0.773	0.759	0.74	0.743	0.767	0.747	0.732	0.744										0.777059	6.25	0.063	1
TRANS-1,2-DICHLOROETHENE	0.831	0.803	0.843	0.777	0.74	0.749	0.726	0.749	0.762	0.734	0.761										0.770634	5.09	0.051	1
METHYL TERT-BUTYL ETHER	1.972	2.236	2.181	1.989	2.04	2.123	2.134	2.163	2.144	2.087	2.154										2.111081	3.87	0.039	1

PDF Generated On: 11/24/2014 - By: Amy Green

Environmental Science Corporation
12065 Lebanon Rd., Mt. Juliet, TN 37122

INITIAL CALIBRATION SUMMARY

Instrument ID	: VOCMS20	Review Method	: 624	Released By	: Amy Green
Method	: V820K23N	Review Protocol	: EPA	Released On	: 11/24/2014 2:51:39 PM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- V820K23N -- ICal Updated Time: Mon Nov 24 14:32:41 2014

Parameter	.25	.5	1	2	5.0	10	25	40	75	100	200	1A	2.5A	5A	7.5A	10A	12A	15A	17A	20A	AvgRF	%RSD	COD	Cur
1,1-DICHLOROETHANE	1.601	1.498	1.563	1.528	1.494	1.509	1.457	1.486	1.483	1.446	1.492										1.505273	2.98	0.03	1
VINYL ACETATE	1.127	1.236	1.311	1.167	1.246	1.233	1.211	1.194	1.162	1.113	1.111										1.191912	5.28	0.053	1
DI-ISOPROPYL ETHER	2.898	2.972	3.078	3.017	2.987	3.087	3.084	3.153	3.179	3.123	3.215										3.072117	3.12	0.031	1
2,2-Dichloropropane	0.844	0.703	0.739	0.806	0.745	0.742	0.705	0.693	0.718	0.687	0.661										0.731005	7.32	0.073	1
CIS-1,2-DICHLOROETHENE	0.842	0.867	0.869	0.824	0.831	0.87	0.836	0.846	0.845	0.829	0.845										0.845924	1.93	0.019	1
2-BUTANONE (MEK)	0.06	0.09	0.084	0.076	0.083	0.083	0.085	0.087	0.085	0.083	0.085										0.081839	9.84	0.098	1
BROMOCHLOROMETHANE	0.537	0.458	0.483	0.464	0.445	0.458	0.438	0.45	0.454	0.436	0.447										0.460799	6.16	0.062	1
TETRAHYDROFURAN	0.288	0.26	0.283	0.234	0.234	0.235	0.24	0.238	0.23	0.23	0.231										0.245619	8.77	0.088	1
CHLOROFORM	1.407	1.495	1.437	1.346	1.354	1.351	1.317	1.327	1.331	1.299	1.331										1.363297	4.33	0.043	1
DIBROMOFLUOROMETHANE	0.554	0.56	0.557	0.544	0.54	0.554	0.539	0.544	0.552	0.537	0.552										0.548371	1.43	0.014	1
1,1,1-TRICHLOROETHANE	1.061	0.922	1.019	0.978	0.931	0.943	0.912	0.933	0.95	0.911	0.932										0.953869	4.96	0.05	1
CARBON TETRACHLORIDE	0.724	0.789	0.781	0.788	0.828	0.735	0.735	0.743	0.77	0.747	0.771										0.764532	4.06	0.041	1
1,1-Dichloropropene	1.055	1.108	0.957	0.999	1.019	1.001	1.011	1.038	1.048	1.012	1.051										1.027152	3.83	0.038	1
2,2,4-TRIMETHYLPENTANE	3.265	3.409	2.997	3.002	3.056	3.145	3.06	3.198	3.21	3.061	3.21										3.146702	4.02	0.04	1
HEPTANE	1.531	1.384	1.391	1.223	1.354	1.394	1.371	1.479	1.448	1.444	1.488										1.409812	5.89	0.059	1
BENZENE	3.627	3.727	3.693	3.51	3.38	3.404	3.313	3.393	3.375	3.294	3.393										3.464597	4.38	0.044	1
1,2-DICHLOROETHANE	1.048	0.985	1.055	0.934	0.983	0.97	0.956	0.963	0.954	0.93	0.953										0.975555	4.25	0.042	1
8260-1,4-DIFLUOROBENZENE																								
TRICHLOROETHENE	0.337	0.378	0.392	0.383	0.377	0.376	0.365	0.37	0.369	0.365	0.367										0.370964	3.77	0.038	1
1,2-DICHLOROPROPANE	0.323	0.328	0.368	0.348	0.327	0.346	0.334	0.334	0.336	0.335	0.331										0.337228	3.78	0.038	1
DIBROMOMETHANE	0.187	0.222	0.228	0.238	0.219	0.223	0.219	0.22	0.22	0.215	0.216										0.218717	5.65	0.057	1
BROMODICHLOROMETHANE	0.687	0.555	0.569	0.538	0.539	0.541	0.534	0.548	0.549	0.549	0.548										0.559629	7.73	0.077	1

PDF Generated On: 11/24/2014 -- By: Amy Green

Environmental Science Corporation
12065 Lebanon Rd., Mt. Juliet, TN 37122

INITIAL CALIBRATION SUMMARY

Instrument ID	: VOCMS20	Review Method	: 624	Released By	: Amy Green
Method	: V820K23N	Review Protocol	: EPA	Released On	: 11/24/2014 2:51:39 PM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- V820K23N -- ICal Updated Time: Mon Nov 24 14:32:41 2014

Parameter	.25	.5	1	2	5.0	10	25	40	75	100	200	1A	2.5A	5A	7.5A	10A	12A	15A	17A	20A	AvgRF	%RSD	COD	Cur
a,a,a-Trifluorotoluene	0.53	0.525	0.529	0.528	0.511	0.512	0.502	0.491	0.498	0.48	0.468										0.50655	4.13	0.041	1
-CHLOROETHYL VINYL ETHER					0.12	0.141	0.163	0.152	0.174	0.17	0.18										0.157101	13.34	0.133	1
CIS-1,3-DICHLOROPROPENE	0.602	0.662	0.68	0.67	0.689	0.715	0.712	0.729	0.718	0.719	0.726										0.692868	5.49	0.055	1
4-METHYL-2-PENTANONE (MIBK)	0.121	0.127	0.133	0.127	0.134	0.145	0.15	0.152	0.151	0.148	0.149										0.139802	8.07	0.081	1
TOLUENE-D8	1.288	1.283	1.293	1.301	1.269	1.279	1.279	1.256	1.264	1.226	1.206										1.267614	2.29	0.023	1
TOLUENE	2.723	2.3	2.049	1.947	1.914	1.881	1.784	1.788	1.763	1.778	1.757										1.97112	15.11	0.151	1
TRANS-1,3-DICHLOROPROPENE	0.119	0.136	0.159	0.117	0.132	0.141	0.145	0.146	0.144	0.146	0.146										0.139262	8.89	0.089	1
8260-2-BROMO-1 -CHLOROPROPANE																								
1,1,2-TRICHLOROETHANE	1.778	2.227	2.022	1.997	1.993	2.03	1.928	2.009	1.938	1.952	1.975										1.986109	5.33	0.053	1
TETRACHLOROETHENE	1.645	1.501	1.534	1.488	1.466	1.506	1.425	1.477	1.446	1.475	1.504										1.496976	3.85	0.039	1
1,3-Dichloropropane	4.674	4.145	4.141	3.721	3.919	3.9	3.735	3.856	3.717	3.859	3.854										3.956501	7.06	0.071	1
2-HEXANONE	0.662	0.649	0.649	0.658	0.731	0.808	0.841	0.867	0.868	0.867	0.888										0.771638	13.18	0.132	1
CHLORODIBROMOMETHANE	1.893	1.977	1.836	1.824	1.882	1.929	1.911	1.969	1.943	1.998	2.02										1.925618	3.31	0.033	1
1,2-DIBROMOETHANE	1.727	1.836	1.857	1.821	1.796	1.887	1.84	1.896	1.853	1.884	1.905										1.845605	2.8	0.028	1
CHLOROBENZENE	7.028	6.715	6.213	6.291	6.465	6.702	6.374	6.634	6.401	6.582	6.536										6.540083	3.51	0.035	1
1,1,1,2-TETRACHLOROETHANE	2.146	1.96	1.924	1.901	1.954	2.031	1.902	1.996	1.998	2.011	1.975										1.9818 1	3.5	0.035	1
ETHYLBENZENE	3.398	3.065	3.133	3.007	3.18	3.504	3.452	3.575	3.525	3.644	3.583										3.369545	6.82	0.068	1
M&P-XYLENE	4.218	4.026	3.994	3.986	4.246	4.516	4.322	4.502	4.416	4.53	4.445										4.290983	4.95	0.05	1
O-XYLENE	3.812	3.926	3.55	3.691	3.975	4.248	4.137	4.375	4.307	4.399	4.259										4.061824	7.13	0.071	1
STYRENE			5.009	5.211	6.259	7.077	7.021	7.383	7.193	7.472	7.289										6.657048	14.2	0.142	1
Bromoform	0.7	0.925	1.116	0.975	1.048	1.072	1.053	1.111	1.088	1.122	1.112										1.029197	12.22	0.122	1
Isopropylbenzene	9.1	8.77	9.559 999	9.28	10.18	10.89	10.61	11.2	11.06	11.21	10.63										10.22678	8.8	0.088	1

PDF Generated On: 11/24/2014 -- By: Amy Green

Environmental Science Corporation
12065 Lebanon Rd., Mt. Juliet, TN 37122

INITIAL CALIBRATION SUMMARY

Instrument ID	: VOCMS20	Review Method	: 624	Released By	: Amy Green
Method	: V820K23N	Review Protocol	: EPA	Released On	: 11/24/2014 2:51:39 PM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- V820K23N -- ICal Updated Time: Mon Nov 24 14:32:41 2014

Parameter	.25	.5	1	2	5.0	10	25	40	75	100	200	1A	2.5A	5A	7.5A	10A	12A	15A	17A	20A	AvgRF	%RSD	COD	Cur
4-BROMOFLUOROBENZENE	2.606	2.639	2.615	2.63	2.638	2.684	2.64	2.67	2.619	2.613	2.499										2.622983	1.81	0.018	1
Bromobenzene	5.954	5.849	5.618	5.548	5.552	5.748	5.352	5.474	5.34	5.431	5.24										5.554978	4.01	0.04	1
1,1,2,2-TETRACHLOROETHANE	2.182	2.548	2.73	2.571	2.546	2.757	2.576	2.62	2.531	2.518	2.501										2.552658	5.82	0.058	1
1,2,3-TRICHLOROPROPANE	0.533	0.711	0.775	0.721	0.736	0.79	0.726	0.729	0.705	0.716	0.701										0.712963	9.23	0.092	1
TRANS-1,4-DICHLORO-2-BUTENE		0.716	0.687	0.737	0.742	0.77	0.763	0.782	0.756	0.762	0.767										0.748181	3.84	0.038	1
n-Propylbenzene	14.85	13.94	12.83	13.02	13.36	14.06	13.55	13.93	13.77	13.99	13.2										13.68314	4.17	0.042	1
4-ETHYLTOLUENE	11.3	10.38	10.75	9.969999	10.57	11.33	10.92	11.43	11.17	11.3	10.69										10.89284	4.28	0.043	1
2-Chlorotoluene	2.512	2.668	2.49	2.472	2.594	2.696	2.524	2.593	2.507	2.546	2.444										2.549634	3.13	0.031	1
4-Chlorotoluene	8.694	8.058	8.21	8.264	8.446	8.873	8.548	8.842	8.59	8.692	8.314										8.502878	3.14	0.031	1
1,3,5-Trimethylbenzene	9.134	8.225	8.57	8.666	9.019	9.734	9.33	9.65	9.549	9.669	9.129										9.152332	5.46	0.055	1
tert-Butylbenzene	6.805	6.595	6.597	6.601	7.092	7.546	7.338	7.648	7.611	7.687	7.085										7.145857	6.23	0.062	1
1,2,4-Trimethylbenzene	9.278	7.956	8.157	8.656	9.176	9.918	9.665	9.853	9.721	9.757	9.195										9.211881	7.42	0.074	1
sec-Butylbenzene	10.37	10.57	10.44	10.76	11.72	12.59	11.9	12.5	12.41	12.38	11.51										11.56038	7.62	0.076	1
1,3-DICHLOROBENZENE	5.069	4.941	4.891	4.604	4.803	5.07	4.797	4.908	4.746	4.789	4.531										4.831675	3.51	0.035	1
p-Isopropyltoluene	7.56	7.8	7.92	8.63	9.26	9.98	9.639999	10.12	10.03	10.12	9.42										9.13507	10.83	0.108	1
DICYCLOPENTADIENE	9.28	10.13	10.53	11.07	11.91	12.75	12.23	12.86	12.92	13.04	12.25										11.7239	10.94	0.109	1
8260-1,4-DICHLOROBENZENE-D4																								
1,4-DICHLOROBENZENE	2.336	2.204	2.145	2.021	2.024	1.998	1.944	1.99	1.966	1.964	2.03										2.056532	5.92	0.059	1
1,2,3-TRIMETHYLBENZENE	4.098	3.738	4.046	3.998	3.996	4.104	3.998	4.176	4.149	4.106	4.225										4.057794	3.21	0.032	1
1,2-DICHLOROBENZENE	2.039	1.959	1.766	1.839	1.733	1.778	1.758	1.815	1.798	1.782	1.816										1.825596	5.06	0.051	1
n-Butylbenzene	4.199	3.765	3.493	3.604	3.745	3.826	3.874	4.068	4.03	3.964	3.866										3.857599	5.32	0.053	1
1,2-Dibromo-3-chloropropane		0.103	0.152	0.127	0.145	0.148	0.164	0.158	0.161	0.157	0.173										0.148913	13.7	0.137	1

PDF Generated On: 11/24/2014 -- By: Amy Green

Environmental Science Corporation
12065 Lebanon Rd., Mt. Juliet, TN 37122

INITIAL CALIBRATION SUMMARY

Instrument ID	: VOCMS20	Review Method	: 624	Released By	: Amy Green
Method	: V820K23N	Review Protocol	: EPA	Released On	: 11/24/2014 2:51:39 PM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- V820K23N -- ICal Updated Time: Mon Nov 24 14:32:41 2014

Parameter	.25	.5	1	2	5.0	10	25	40	75	100	200	1A	2.5A	5A	7.5A	10A	12A	15A	17A	20A	AvgRF	%RSD	COD	Cur
1,2,4-Trichlorobenzene	1.17	1.048	1.029	0.929	1.035	1.012	1.081	1.116	1.088	1.085	1.108										1.063793	5.98	0.06	1
HEXACHLORO-1,3-BUTADIENE	0.567	0.587	0.545	0.528	0.56	0.557	0.54	0.561	0.565	0.547	0.53										0.553258	3.17	0.032	1
Naphthalene	3.153	2.548	2.399	2.268	2.341	2.531	2.753	2.904	2.895	2.827	3.062										2.698171	11.07	0.111	1
1,2,3-Trichlorobenzene	0.916	0.934	0.945	0.902	0.957	0.989	1.009	1.026	0.997	0.983	1.015										0.970296	4.32	0.043	1
1-Methylnaphthalene		1.286	1.245	1.131	1.136	1.266	1.503	1.57	1.558	1.55	1.643										1.388868	14.04	0.14	1
2-Methylnaphthalene	1.383	1.153	1.051	0.97	1.034	1.152	1.365	1.384	1.341	1.321	1.376										1.230002	13.05	0.131	1
AP9-PENTAFLUOROBENZENE																								
ETHANOL												0.009	0.008	0.008	0.007	0.006	0.007	0.008	0.007	0.008	0.007565	9.6	0.096	1
Bromoethane												0.481	0.493	0.521	0.479	0.426	0.474	0.468	0.455	0.461	0.473093	5.53	0.055	1
2-PROPANOL																					0	0	0	1
Methyl Acetate												0.54	0.548	0.573	0.517	0.472	0.519	0.544	0.535	0.542	0.53223	5.26	0.053	1
ACETONITRILE												0.105	0.106	0.114	0.103	0.093	0.103	0.109	0.107	0.108	0.105414	5.35	0.053	1
ALLYL CHLORIDE												0.376	0.39	0.421	0.374	0.343	0.371	0.372	0.369	0.366	0.375877	5.6	0.056	1
tert-BUTYL ALCOHOL												0.137	0.135	0.133	0.113	0.098	0.105	0.114	0.114	0.111	0.11795	11.81	0.118	1
chloroprene												0.618	0.656	0.723	0.663	0.605	0.664	0.669	0.649	0.66	0.656369	5.06	0.051	1
ETHYL TERT-BUTYL ETHER												2.304	2.322	2.53	2.276	2.075	2.278	2.32	2.315	2.357	2.308566	5.05	0.05	1
PROPIONITRILE												0.104	0.108	0.114	0.103	0.091	0.102	0.108	0.105	0.107	0.104748	5.82	0.058	1
Ethyl Acetate												0.716	0.752	0.801	0.718	0.663	0.73	0.769	0.749	0.765	0.740472	5.33	0.053	1
METHACRYLONITRILE												0.31	0.315	0.331	0.298	0.274	0.301	0.316	0.308	0.312	0.307308	5.13	0.051	1
Cyclohexane												0.752	0.845	0.941	0.864	0.786	0.85	0.843	0.808	0.836	0.835936	6.35	0.063	1
tert-butyl formate												0.378	0.428	0.485	0.47	0.456	0.484	0.5	0.502	0.542	0.471657	10.06	0.101	1
ISOBUTANOL												0.034	0.037	0.04	0.039	0.036	0.038	0.04	0.04	0.042	0.038368	5.9	0.059	1

PDF Generated On: 11/24/2014 -- By: Amy Green

Environmental Science Corporation
12065 Lebanon Rd., Mt. Juliet, TN 37122

INITIAL CALIBRATION SUMMARY

Instrument ID	: VOCMS20	Review Method	: 624	Released By	: Amy Green
Method	: V820K23N	Review Protocol	: EPA	Released On	: 11/24/2014 2:51:39 PM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- V820K23N -- ICal Updated Time: Mon Nov 24 14:32:41 2014

Parameter	.25	.5	1	2	5.0	10	25	40	75	100	200	1A	2.5A	5A	7.5A	10A	12A	15A	17A	20A	AvgRF	%RSD	COD	Cur
t-Amyl Alcohol												0.048	0.055	0.06	0.05	0.044	0.049	0.054	0.053	0.054	0.051723	8.78	0.088	1
TERT-AMYL METHYL ETHER												2.089	2.033	2.217	1.985	1.848	1.991	2.012	2.016	2.073	2.029213	4.86	0.049	1
AP9-1,4-DIFLUOROBENZENE																								
N-BUTANOL												0.01	0.011	0.012	0.011	0.01	0.011	0.012	0.012	0.012	0.011295	8.72	0.087	1
Methyl Cyclohexane												1.103	0.8	0.738	0.617	0.55	0.589	0.581	0.565	0.57	0.679202	26.59	0.996	0
2-nitropropane												0.091	0.088	0.092	0.085	0.079	0.086	0.091	0.093	0.094	0.088716	5.66	0.057	1
METHYL METHACRYLATE												0.34	0.35	0.389	0.349	0.318	0.352	0.38	0.364	0.365	0.356259	5.95	0.06	1
1,4-DIOXANE												0.003	0.004	0.004	0.004	0.003	0.004	0.004	0.004	0.004	0.00358	7.63	0.076	1
n-octane												0.275	0.309	0.328	0.294	0.278	0.298	0.309	0.287	0.292	0.296598	5.59	0.056	1
3,3-DIMETHYL-1-BUTANOL												0.028	0.027	0.029	0.025	0.023	0.027	0.029	0.029	0.029	0.027507	7.34	0.073	1
AP9-2-BROMO-1 -CHLOROPROPANE																								
ETHYL METHACRYLATE												2.747	2.843	3.109	2.938	2.735	3.139	3.149	3.123	3.206	2.99876	6.16	0.062	1
CIS-1,4-DICHLORO-2-BUTENE												0.771	0.825	0.824	0.783	0.72	0.823	0.824	0.797	0.83	0.799643	4.6	0.046	1
Cyclohexanone																					0	0	0	1
PENTACHLOROETHANE												1.475	1.362	1.431	1.486	1.371	1.296	1.486	1.142	1.513	1.395825	8.54	0.085	1
Hexachloroethane												1.712	1.778	1.891	1.703	1.526	1.778	1.707	1.644	1.742	1.719916	5.83	0.058	1
AP9-1,4-DICHLOROBENZENE-D4																								

PDF Generated On: 11/24/2014 - By: Amy Green

Environmental Science Corporation
12065 Lebanon Rd., Mt. Juliet, TN 37122

INITIAL CALIBRATION SUMMARY

Instrument ID	: VOCMS20	Review Method	: 8260SC	Released By	: Amy Green
Method	: V820K23N	Review Protocol	: SC	Released On	: 11/24/2014 2:52:21 PM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- V820K23N -- ICal Updated Time: Mon Nov 24 14:32:41 2014

Parameter	.25	.5	1	2	5.0	10	25	40	75	100	200	1A	2.5A	5A	7.5A	10A	12A	15A	17A	20A	AvgRF	%RSD	COD	Cur
8260-PENTAFLUOROBENZENE																								
TPH (GC/MS) LOW FRACTION																					0	0	0	1
PROPENE				0.236	0.181	0.192	0.175	0.172	0.178	0.172	0.173										0.184855	11.8	0.118	1
DICHLORODIFLUOROMETHANE	0.701	0.748	0.637	0.664	0.631	0.658	0.634	0.655	0.663	0.624	0.638										0.659327	5.52	0.055	1
CHLOROMETHANE	1.274	1.157	1.138	1.12	1.077	1.085	1.041	1.062	1.077	1.045	1.061										1.103495	6.15	0.061	1
VINYL CHLORIDE	0.857	0.982	0.968	0.979	0.911	0.947	0.89	0.924	0.921	0.892	0.907										0.925281	4.33	0.043	1
1,3-BUTADIENE	0.87	0.806	0.793	0.715	0.693	0.683	0.667	0.691	0.704	0.67	0.699										0.726447	9.12	0.091	1
BROMOMETHANE	0.748	0.636	0.587	0.594	0.557	0.572	0.526	0.543	0.551	0.535	0.54										0.580908	11.03	0.11	1
CHLOROETHANE		0.121	0.18	0.194	0.165	0.179	0.162	0.164	0.163	0.16	0.161										0.164754	11.42	0.114	1
TRICHLOROFLUOROMETHANE	0.907	0.942	0.841	0.873	0.836	0.857	0.815	0.833	0.845	0.82	0.849										0.856087	4.46	0.045	1
DICHLOROFLUOROMETHANE	1.324	1.413	1.308	1.248	1.193	1.243	1.168	1.198	1.213	1.177	1.193										1.243407	6.1	0.061	1
ETHYL ETHER	0.726	0.717	0.837	0.676	0.691	0.703	0.682	0.678	0.677	0.657	0.667										0.701073	7.07	0.071	1
ACROLEIN	0.126	0.117	0.111	0.105	0.109	0.116	0.112	0.114	0.111	0.107	0.108										0.112378	5.27	0.053	1
1,1-DICHLOROETHENE	1.164	1.012	1.112	1.125	1.024	1.04	1.019	1.025	1.032	0.986	1.032										1.051869	5.27	0.053	1
1,1,2 -TRICHLOROTRIFLUOROETHANE	0.573	0.683	0.585	0.571	0.577	0.545	0.552	0.567	0.579	0.552	0.578										0.57832	6.41	0.064	1
ACETONE			0.267	0.228	0.206	0.203	0.195	0.198	0.19	0.185	0.17										0.204617	13.78	0.138	1
IODOMETHANE	0.991	1.094	1.092	1.031	1	1.021	0.988	1.003	1.022	0.998	1.057										1.02689	3.73	0.037	1
CARBON DISULFIDE	2.839	2.723	2.677	2.555	2.42	2.428	2.391	2.432	2.444	2.35	2.451										2.519193	6.29	0.063	1
METHYLENE CHLORIDE	0.88	0.895	0.953	0.892	0.855	0.873	0.838	0.841	0.848	0.821	0.837										0.866616	4.34	0.043	1
ACRYLONITRILE	0.261	0.274	0.28	0.264	0.265	0.279	0.283	0.282	0.281	0.272	0.28										0.2746	2.91	0.029	1
n-Hexane	0.876	0.847	0.82	0.773	0.759	0.74	0.743	0.767	0.747	0.732	0.744										0.777059	6.25	0.063	1
TRANS-1,2-DICHLOROETHENE	0.831	0.803	0.843	0.777	0.74	0.749	0.726	0.749	0.762	0.734	0.761										0.770634	5.09	0.051	1
METHYL TERT-BUTYL ETHER	1.972	2.236	2.181	1.989	2.04	2.123	2.134	2.163	2.144	2.087	2.154										2.111081	3.87	0.039	1

PDF Generated On: 11/24/2014 - By: Amy Green

Environmental Science Corporation
12065 Lebanon Rd., Mt. Juliet, TN 37122

INITIAL CALIBRATION SUMMARY

Instrument ID	: VOCMS20	Review Method	: 8260SC	Released By	: Amy Green
Method	: V820K23N	Review Protocol	: SC	Released On	: 11/24/2014 2:52:21 PM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- V820K23N -- ICal Updated Time: Mon Nov 24 14:32:41 2014

Parameter	.25	.5	1	2	5.0	10	25	40	75	100	200	1A	2.5A	5A	7.5A	10A	12A	15A	17A	20A	AvgRF	%RSD	COD	Cur
1,1-DICHLOROETHANE	1.601	1.498	1.563	1.528	1.494	1.509	1.457	1.486	1.483	1.446	1.492										1.505273	2.98	0.03	1
VINYL ACETATE	1.127	1.236	1.311	1.167	1.246	1.233	1.211	1.194	1.162	1.113	1.111										1.191912	5.28	0.053	1
DI-ISOPROPYL ETHER	2.898	2.972	3.078	3.017	2.987	3.087	3.084	3.153	3.179	3.123	3.215										3.072117	3.12	0.031	1
2,2-Dichloropropane	0.844	0.703	0.739	0.806	0.745	0.742	0.705	0.693	0.718	0.687	0.661										0.731005	7.32	0.073	1
CIS-1,2-DICHLOROETHENE	0.842	0.867	0.869	0.824	0.831	0.87	0.836	0.846	0.845	0.829	0.845										0.845924	1.93	0.019	1
2-BUTANONE (MEK)	0.06	0.09	0.084	0.076	0.083	0.083	0.085	0.087	0.085	0.083	0.085										0.081839	9.84	0.098	1
BROMOCHLOROMETHANE	0.537	0.458	0.483	0.464	0.445	0.458	0.438	0.45	0.454	0.436	0.447										0.460799	6.16	0.062	1
TETRAHYDROFURAN	0.288	0.26	0.283	0.234	0.234	0.235	0.24	0.238	0.23	0.23	0.231										0.245619	8.77	0.088	1
CHLOROFORM	1.407	1.495	1.437	1.346	1.354	1.351	1.317	1.327	1.331	1.299	1.331										1.363297	4.33	0.043	1
DIBROMOFLUOROMETHANE	0.554	0.56	0.557	0.544	0.54	0.554	0.539	0.544	0.552	0.537	0.552										0.548371	1.43	0.014	1
1,1,1-TRICHLOROETHANE	1.061	0.922	1.019	0.978	0.931	0.943	0.912	0.933	0.95	0.911	0.932										0.953869	4.96	0.05	1
CARBON TETRACHLORIDE	0.724	0.789	0.781	0.788	0.828	0.735	0.735	0.743	0.77	0.747	0.771										0.764532	4.06	0.041	1
1,1-Dichloropropene	1.055	1.108	0.957	0.999	1.019	1.001	1.011	1.038	1.048	1.012	1.051										1.027152	3.83	0.038	1
2,2,4-TRIMETHYLPENTANE	3.265	3.409	2.997	3.002	3.056	3.145	3.06	3.198	3.21	3.061	3.21										3.146702	4.02	0.04	1
HEPTANE	1.531	1.384	1.391	1.223	1.354	1.394	1.371	1.479	1.448	1.444	1.488										1.409812	5.89	0.059	1
BENZENE	3.627	3.727	3.693	3.51	3.38	3.404	3.313	3.393	3.375	3.294	3.393										3.464597	4.38	0.044	1
1,2-DICHLOROETHANE	1.048	0.985	1.055	0.934	0.983	0.97	0.956	0.963	0.954	0.93	0.953										0.975555	4.25	0.042	1
8260-1,4-DIFLUOROBENZENE																								
TRICHLOROETHENE	0.337	0.378	0.392	0.383	0.377	0.376	0.365	0.37	0.369	0.365	0.367										0.370964	3.77	0.038	1
1,2-DICHLOROPROPANE	0.323	0.328	0.368	0.348	0.327	0.346	0.334	0.334	0.336	0.335	0.331										0.337228	3.78	0.038	1
DIBROMOMETHANE	0.187	0.222	0.228	0.238	0.219	0.223	0.219	0.22	0.22	0.215	0.216										0.218717	5.65	0.057	1
BROMODICHLOROMETHANE	0.687	0.555	0.569	0.538	0.539	0.541	0.534	0.548	0.549	0.549	0.548										0.559629	7.73	0.077	1

PDF Generated On: 11/24/2014 -- By: Amy Green

Environmental Science Corporation
12065 Lebanon Rd., Mt. Juliet, TN 37122

INITIAL CALIBRATION SUMMARY

Instrument ID	: VOCMS20	Review Method	: 8260SC	Released By	: Amy Green
Method	: V820K23N	Review Protocol	: SC	Released On	: 11/24/2014 2:52:21 PM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- V820K23N -- ICal Updated Time: Mon Nov 24 14:32:41 2014

Parameter	.25	.5	1	2	5.0	10	25	40	75	100	200	1A	2.5A	5A	7.5A	10A	12A	15A	17A	20A	AvgRF	%RSD	COD	Cur
a,a,a-Trifluorotoluene	0.53	0.525	0.529	0.528	0.511	0.512	0.502	0.491	0.498	0.48	0.468										0.50655	4.13	0.041	1
-CHLOROETHYL VINYL ETHER					0.12	0.141	0.163	0.152	0.174	0.17	0.18										0.157101	13.34	0.133	1
CIS-1,3-DICHLOROPROPENE	0.602	0.662	0.68	0.67	0.689	0.715	0.712	0.729	0.718	0.719	0.726										0.692868	5.49	0.055	1
4-METHYL-2-PENTANONE (MIBK)	0.121	0.127	0.133	0.127	0.134	0.145	0.15	0.152	0.151	0.148	0.149										0.139802	8.07	0.081	1
TOLUENE-D8	1.288	1.283	1.293	1.301	1.269	1.279	1.279	1.256	1.264	1.226	1.206										1.267614	2.29	0.023	1
TOLUENE	2.723	2.3	2.049	1.947	1.914	1.881	1.784	1.788	1.763	1.778	1.757										1.97112	15.11	0.151	1
TRANS-1,3-DICHLOROPROPENE	0.119	0.136	0.159	0.117	0.132	0.141	0.145	0.146	0.144	0.146	0.146										0.139262	8.89	0.089	1
8260-2-BROMO-1 -CHLOROPROPANE																								
1,1,2-TRICHLOROETHANE	1.778	2.227	2.022	1.997	1.993	2.03	1.928	2.009	1.938	1.952	1.975										1.986109	5.33	0.053	1
TETRACHLOROETHENE	1.645	1.501	1.534	1.488	1.466	1.506	1.425	1.477	1.446	1.475	1.504										1.496976	3.85	0.039	1
1,3-Dichloropropane	4.674	4.145	4.141	3.721	3.919	3.9	3.735	3.856	3.717	3.859	3.854										3.956501	7.06	0.071	1
2-HEXANONE	0.662	0.649	0.649	0.658	0.731	0.808	0.841	0.867	0.868	0.867	0.888										0.771638	13.18	0.132	1
CHLORODIBROMOMETHANE	1.893	1.977	1.836	1.824	1.882	1.929	1.911	1.969	1.943	1.998	2.02										1.925618	3.31	0.033	1
1,2-DIBROMOETHANE	1.727	1.836	1.857	1.821	1.796	1.887	1.84	1.896	1.853	1.884	1.905										1.845605	2.8	0.028	1
CHLOROBENZENE	7.028	6.715	6.213	6.291	6.465	6.702	6.374	6.634	6.401	6.582	6.536										6.540083	3.51	0.035	1
1,1,1,2-TETRACHLOROETHANE	2.146	1.96	1.924	1.901	1.954	2.031	1.902	1.996	1.998	2.011	1.975										1.98181	3.5	0.035	1
ETHYLBENZENE	3.398	3.065	3.133	3.007	3.18	3.504	3.452	3.575	3.525	3.644	3.583										3.369545	6.82	0.068	1
M&P-XYLENE	4.218	4.026	3.994	3.986	4.246	4.516	4.322	4.502	4.416	4.53	4.445										4.290983	4.95	0.05	1
O-XYLENE	3.812	3.926	3.55	3.691	3.975	4.248	4.137	4.375	4.307	4.399	4.259										4.061824	7.13	0.071	1
STYRENE			5.009	5.211	6.259	7.077	7.021	7.383	7.193	7.472	7.289										6.657048	14.2	0.142	1
Bromoform	0.7	0.925	1.116	0.975	1.048	1.072	1.053	1.111	1.088	1.122	1.112										1.029197	12.22	0.122	1
Isopropylbenzene	9.1	8.77	9.559999	9.28	10.18	10.89	10.61	11.2	11.06	11.21	10.63										10.22678	8.8	0.088	1

PDF Generated On: 11/24/2014 -- By: Amy Green

Environmental Science Corporation
12065 Lebanon Rd., Mt. Juliet, TN 37122

INITIAL CALIBRATION SUMMARY

Instrument ID	: VOCMS20	Review Method	: 8260SC	Released By	: Amy Green
Method	: V820K23N	Review Protocol	: SC	Released On	: 11/24/2014 2:52:21 PM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- V820K23N -- ICal Updated Time: Mon Nov 24 14:32:41 2014

Parameter	.25	.5	1	2	5.0	10	25	40	75	100	200	1A	2.5A	5A	7.5A	10A	12A	15A	17A	20A	AvgRF	%RSD	COD	Cur
4-BROMOFLUOROBENZENE	2.606	2.639	2.615	2.63	2.638	2.684	2.64	2.67	2.619	2.613	2.499										2.622983	1.81	0.018	1
Bromobenzene	5.954	5.849	5.618	5.548	5.552	5.748	5.352	5.474	5.34	5.431	5.24										5.554978	4.01	0.04	1
1,1,2,2-TETRACHLOROETHANE	2.182	2.548	2.73	2.571	2.546	2.757	2.576	2.62	2.531	2.518	2.501										2.552658	5.82	0.058	1
1,2,3-TRICHLOROPROPANE	0.533	0.711	0.775	0.721	0.736	0.79	0.726	0.729	0.705	0.716	0.701										0.712963	9.23	0.092	1
TRANS-1,4-DICHLORO-2-BUTENE		0.716	0.687	0.737	0.742	0.77	0.763	0.782	0.756	0.762	0.767										0.748181	3.84	0.038	1
n-Propylbenzene	14.85	13.94	12.83	13.02	13.36	14.06	13.55	13.93	13.77	13.99	13.2										13.68314	4.17	0.042	1
4-ETHYLTOLUENE	11.3	10.38	10.75	9.969999	10.57	11.33	10.92	11.43	11.17	11.3	10.69										10.89284	4.28	0.043	1
2-Chlorotoluene	2.512	2.668	2.49	2.472	2.594	2.696	2.524	2.593	2.507	2.546	2.444										2.549634	3.13	0.031	1
4-Chlorotoluene	8.694	8.058	8.21	8.264	8.446	8.873	8.548	8.842	8.59	8.692	8.314										8.502878	3.14	0.031	1
1,3,5-Trimethylbenzene	9.134	8.225	8.57	8.666	9.019	9.734	9.33	9.65	9.549	9.669	9.129										9.152332	5.46	0.055	1
tert-Butylbenzene	6.805	6.595	6.597	6.601	7.092	7.546	7.338	7.648	7.611	7.687	7.085										7.145857	6.23	0.062	1
1,2,4-Trimethylbenzene	9.278	7.956	8.157	8.656	9.176	9.918	9.665	9.853	9.721	9.757	9.195										9.211881	7.42	0.074	1
sec-Butylbenzene	10.37	10.57	10.44	10.76	11.72	12.59	11.9	12.5	12.41	12.38	11.51										11.56038	7.62	0.076	1
1,3-DICHLOROBENZENE	5.069	4.941	4.891	4.604	4.803	5.07	4.797	4.908	4.746	4.789	4.531										4.831675	3.51	0.035	1
p-Isopropyltoluene	7.56	7.8	7.92	8.63	9.26	9.98	9.639999	10.12	10.03	10.12	9.42										9.13507	10.83	0.108	1
DICYCLOPENTADIENE	9.28	10.13	10.53	11.07	11.91	12.75	12.23	12.86	12.92	13.04	12.25										11.7239	10.94	0.109	1
8260-1,4-DICHLOROBENZENE-D4																								
1,4-DICHLOROBENZENE	2.336	2.204	2.145	2.021	2.024	1.998	1.944	1.99	1.966	1.964	2.03										2.056532	5.92	0.059	1
1,2,3-TRIMETHYLBENZENE	4.098	3.738	4.046	3.998	3.996	4.104	3.998	4.176	4.149	4.106	4.225										4.057794	3.21	0.032	1
1,2-DICHLOROBENZENE	2.039	1.959	1.766	1.839	1.733	1.778	1.758	1.815	1.798	1.782	1.816										1.825596	5.06	0.051	1
n-Butylbenzene	4.199	3.765	3.493	3.604	3.745	3.826	3.874	4.068	4.03	3.964	3.866										3.857599	5.32	0.053	1
1,2-Dibromo-3-chloropropane		0.103	0.152	0.127	0.145	0.148	0.164	0.158	0.161	0.157	0.173										0.148913	13.7	0.137	1

PDF Generated On: 11/24/2014 -- By: Amy Green

Environmental Science Corporation
12065 Lebanon Rd., Mt. Juliet, TN 37122

INITIAL CALIBRATION SUMMARY

Instrument ID	: VOCMS20	Review Method	: 8260SC	Released By	: Amy Green
Method	: V820K23N	Review Protocol	: SC	Released On	: 11/24/2014 2:52:21 PM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- V820K23N -- ICal Updated Time: Mon Nov 24 14:32:41 2014

Parameter	.25	.5	1	2	5.0	10	25	40	75	100	200	1A	2.5A	5A	7.5A	10A	12A	15A	17A	20A	AvgRF	%RSD	COD	Cur
1,2,4-Trichlorobenzene	1.17	1.048	1.029	0.929	1.035	1.012	1.081	1.116	1.088	1.085	1.108										1.063793	5.98	0.06	1
HEXACHLORO-1,3-BUTADIENE	0.567	0.587	0.545	0.528	0.56	0.557	0.54	0.561	0.565	0.547	0.53										0.553258	3.17	0.032	1
Naphthalene	3.153	2.548	2.399	2.268	2.341	2.531	2.753	2.904	2.895	2.827	3.062										2.698171	11.07	0.111	1
1,2,3-Trichlorobenzene	0.916	0.934	0.945	0.902	0.957	0.989	1.009	1.026	0.997	0.983	1.015										0.970296	4.32	0.043	1
1-Methylnaphthalene		1.286	1.245	1.131	1.136	1.266	1.503	1.57	1.558	1.55	1.643										1.388868	14.04	0.14	1
2-Methylnaphthalene	1.383	1.153	1.051	0.97	1.034	1.152	1.365	1.384	1.341	1.321	1.376										1.230002	13.05	0.131	1
AP9-PENTAFLUOROBENZENE																								
ETHANOL												0.009	0.008	0.008	0.007	0.006	0.007	0.008	0.007	0.008	0.007565	9.6	0.096	1
Bromoethane												0.481	0.493	0.521	0.479	0.426	0.474	0.468	0.455	0.461	0.473093	5.53	0.055	1
2-PROPANOL																					0	0	0	1
Methyl Acetate												0.54	0.548	0.573	0.517	0.472	0.519	0.544	0.535	0.542	0.53223	5.26	0.053	1
ACETONITRILE												0.105	0.106	0.114	0.103	0.093	0.103	0.109	0.107	0.108	0.105414	5.35	0.053	1
ALLYL CHLORIDE												0.376	0.39	0.421	0.374	0.343	0.371	0.372	0.369	0.366	0.375877	5.6	0.056	1
tert-BUTYL ALCOHOL												0.137	0.135	0.133	0.113	0.098	0.105	0.114	0.114	0.111	0.11795	11.81	0.118	1
chloroprene												0.618	0.656	0.723	0.663	0.605	0.664	0.669	0.649	0.66	0.656369	5.06	0.051	1
ETHYL TERT-BUTYL ETHER												2.304	2.322	2.53	2.276	2.075	2.278	2.32	2.315	2.357	2.308566	5.05	0.05	1
PROPIONITRILE												0.104	0.108	0.114	0.103	0.091	0.102	0.108	0.105	0.107	0.104748	5.82	0.058	1
Ethyl Acetate												0.716	0.752	0.801	0.718	0.663	0.73	0.769	0.749	0.765	0.740472	5.33	0.053	1
METHACRYLONITRILE												0.31	0.315	0.331	0.298	0.274	0.301	0.316	0.308	0.312	0.307308	5.13	0.051	1
Cyclohexane												0.752	0.845	0.941	0.864	0.786	0.85	0.843	0.808	0.836	0.835936	6.35	0.063	1
tert-butyl formate												0.378	0.428	0.485	0.47	0.456	0.484	0.5	0.502	0.542	0.471657	10.06	0.101	1
ISOBUTANOL												0.034	0.037	0.04	0.039	0.036	0.038	0.04	0.04	0.042	0.038368	5.9	0.059	1

PDF Generated On: 11/24/2014 -- By: Amy Green

Environmental Science Corporation
12065 Lebanon Rd., Mt. Juliet, TN 37122

INITIAL CALIBRATION SUMMARY

Instrument ID	: VOCMS20	Review Method	: 8260SC	Released By	: Amy Green
Method	: V820K23N	Review Protocol	: SC	Released On	: 11/24/2014 2:52:21 PM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- V820K23N -- ICal Updated Time: Mon Nov 24 14:32:41 2014

Parameter	.25	.5	1	2	5.0	10	25	40	75	100	200	1A	2.5A	5A	7.5A	10A	12A	15A	17A	20A	AvgRF	%RSD	COD	Cur
-Amyl Alcohol												0.048	0.055	0.06	0.05	0.044	0.049	0.054	0.053	0.054	0.051723	8.78	0.088	1
TERT-AMYL METHYL ETHER												2.089	2.033	2.217	1.985	1.848	1.991	2.012	2.016	2.073	2.029213	4.86	0.049	1
AP9-1,4-DIFLUOROBENZENE																								
N-BUTANOL												0.01	0.011	0.012	0.011	0.01	0.011	0.012	0.012	0.012	0.011295	8.72	0.087	1
Methyl Cyclohexane												1.103	0.8	0.738	0.617	0.55	0.589	0.581	0.565	0.57	0.679202	26.59	0.996	0
-nitropropane												0.091	0.088	0.092	0.085	0.079	0.086	0.091	0.093	0.094	0.088716	5.66	0.057	1
METHYL METHACRYLATE												0.34	0.35	0.389	0.349	0.318	0.352	0.38	0.364	0.365	0.356259	5.95	0.06	1
1,4-DIOXANE												0.003	0.004	0.004	0.004	0.003	0.004	0.004	0.004	0.004	0.00358	7.63	0.076	1
n-octane												0.275	0.309	0.328	0.294	0.278	0.298	0.309	0.287	0.292	0.296598	5.59	0.056	1
3,3-DIMETHYL-1-BUTANOL												0.028	0.027	0.029	0.025	0.023	0.027	0.029	0.029	0.029	0.027507	7.34	0.073	1
AP9-2-BROMO-1 -CHLOROPROPANE																								
ETHYL METHACRYLATE												2.747	2.843	3.109	2.938	2.735	3.139	3.149	3.123	3.206	2.99876	6.16	0.062	1
CIS-1,4-DICHLORO-2-BUTENE												0.771	0.825	0.824	0.783	0.72	0.823	0.824	0.797	0.83	0.799643	4.6	0.046	1
Cyclohexanone																					0	0	0	1
PENTACHLOROETHANE												1.475	1.362	1.431	1.486	1.371	1.296	1.486	1.142	1.513	1.395825	8.54	0.085	1
Hexachloroethane												1.712	1.778	1.891	1.703	1.526	1.778	1.707	1.644	1.742	1.719916	5.83	0.058	1
AP9-1,4-DICHLOROBENZENE-D4																								

PDF Generated On: 11/24/2014 - By: Amy Green

Environmental Science Corporation
12065 Lebanon Rd., Mt. Juliet, TN 37122

INITIAL CALIBRATION SUMMARY

Instrument ID	: VOCMS20	Review Method	: 8260B	Released By	: Amy Green
Method	: V820K23N	Review Protocol	: SW846	Released On	: 11/24/2014 2:53:06 PM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- V820K23N -- ICal Updated Time: Mon Nov 24 14:32:41 2014

Parameter	.25	.5	1	2	5.0	10	25	40	75	100	200	1A	2.5A	5A	7.5A	10A	12A	15A	17A	20A	AvgRF	%RSD	COD	Cur
8260-PENTAFLUOROBENZENE																								
TPH (GC/MS) LOW FRACTION																					0	0	0	1
PROPENE				0.236	0.181	0.192	0.175	0.172	0.178	0.172	0.173										0.184855	11.8	0.118	1
DICHLORODIFLUOROMETHANE	0.701	0.748	0.637	0.664	0.631	0.658	0.634	0.655	0.663	0.624	0.638										0.659327	5.52	0.055	1
CHLOROMETHANE	1.274	1.157	1.138	1.12	1.077	1.085	1.041	1.062	1.077	1.045	1.061										1.103495	6.15	0.061	1
VINYL CHLORIDE	0.857	0.982	0.968	0.979	0.911	0.947	0.89	0.924	0.921	0.892	0.907										0.925281	4.33	0.043	1
1,3-BUTADIENE	0.87	0.806	0.793	0.715	0.693	0.683	0.667	0.691	0.704	0.67	0.699										0.726447	9.12	0.091	1
BROMOMETHANE	0.748	0.636	0.587	0.594	0.557	0.572	0.526	0.543	0.551	0.535	0.54										0.580908	11.03	0.11	1
CHLOROETHANE		0.121	0.18	0.194	0.165	0.179	0.162	0.164	0.163	0.16	0.161										0.164754	11.42	0.114	1
TRICHLOROFLUOROMETHANE	0.907	0.942	0.841	0.873	0.836	0.857	0.815	0.833	0.845	0.82	0.849										0.856087	4.46	0.045	1
DICHLOROFLUOROMETHANE	1.324	1.413	1.308	1.248	1.193	1.243	1.168	1.198	1.213	1.177	1.193										1.243407	6.1	0.061	1
ETHYL ETHER	0.726	0.717	0.837	0.676	0.691	0.703	0.682	0.678	0.677	0.657	0.667										0.701073	7.07	0.071	1
ACROLEIN	0.126	0.117	0.111	0.105	0.109	0.116	0.112	0.114	0.111	0.107	0.108										0.112378	5.27	0.053	1
1,1-DICHLOROETHENE	1.164	1.012	1.112	1.125	1.024	1.04	1.019	1.025	1.032	0.986	1.032										1.051869	5.27	0.053	1
1,1,2 -TRICHLOROTRIFLUOROETHANE	0.573	0.683	0.585	0.571	0.577	0.545	0.552	0.567	0.579	0.552	0.578										0.57832	6.41	0.064	1
ACETONE			0.267	0.228	0.206	0.203	0.195	0.198	0.19	0.185	0.17										0.204617	13.78	0.138	1
IODOMETHANE	0.991	1.094	1.092	1.031	1	1.021	0.988	1.003	1.022	0.998	1.057										1.02689	3.73	0.037	1
CARBON DISULFIDE	2.839	2.723	2.677	2.555	2.42	2.428	2.391	2.432	2.444	2.35	2.451										2.519193	6.29	0.063	1
METHYLENE CHLORIDE	0.88	0.895	0.953	0.892	0.855	0.873	0.838	0.841	0.848	0.821	0.837										0.866616	4.34	0.043	1
ACRYLONITRILE	0.261	0.274	0.28	0.264	0.265	0.279	0.283	0.282	0.281	0.272	0.28										0.2746	2.91	0.029	1
n-Hexane	0.876	0.847	0.82	0.773	0.759	0.74	0.743	0.767	0.747	0.732	0.744										0.777059	6.25	0.063	1
TRANS-1,2-DICHLOROETHENE	0.831	0.803	0.843	0.777	0.74	0.749	0.726	0.749	0.762	0.734	0.761										0.770634	5.09	0.051	1
METHYL TERT-BUTYL ETHER	1.972	2.236	2.181	1.989	2.04	2.123	2.134	2.163	2.144	2.087	2.154										2.111081	3.87	0.039	1

PDF Generated On: 11/24/2014 - By: Amy Green

Environmental Science Corporation
12065 Lebanon Rd., Mt. Juliet, TN 37122

INITIAL CALIBRATION SUMMARY

Instrument ID	: VOCMS20	Review Method	: 8260B	Released By	: Amy Green
Method	: V820K23N	Review Protocol	: SW846	Released On	: 11/24/2014 2:53:06 PM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- V820K23N -- ICal Updated Time: Mon Nov 24 14:32:41 2014

Parameter	.25	.5	1	2	5.0	10	25	40	75	100	200	1A	2.5A	5A	7.5A	10A	12A	15A	17A	20A	AvgRF	%RSD	COD	Cur
1,1-DICHLOROETHANE	1.601	1.498	1.563	1.528	1.494	1.509	1.457	1.486	1.483	1.446	1.492										1.505273	2.98	0.03	1
VINYL ACETATE	1.127	1.236	1.311	1.167	1.246	1.233	1.211	1.194	1.162	1.113	1.111										1.191912	5.28	0.053	1
DI-ISOPROPYL ETHER	2.898	2.972	3.078	3.017	2.987	3.087	3.084	3.153	3.179	3.123	3.215										3.072117	3.12	0.031	1
2,2-Dichloropropane	0.844	0.703	0.739	0.806	0.745	0.742	0.705	0.693	0.718	0.687	0.661										0.731005	7.32	0.073	1
CIS-1,2-DICHLOROETHENE	0.842	0.867	0.869	0.824	0.831	0.87	0.836	0.846	0.845	0.829	0.845										0.845924	1.93	0.019	1
2-BUTANONE (MEK)	0.06	0.09	0.084	0.076	0.083	0.083	0.085	0.087	0.085	0.083	0.085										0.081839	9.84	0.098	1
BROMOCHLOROMETHANE	0.537	0.458	0.483	0.464	0.445	0.458	0.438	0.45	0.454	0.436	0.447										0.460799	6.16	0.062	1
TETRAHYDROFURAN	0.288	0.26	0.283	0.234	0.234	0.235	0.24	0.238	0.23	0.23	0.231										0.245619	8.77	0.088	1
CHLOROFORM	1.407	1.495	1.437	1.346	1.354	1.351	1.317	1.327	1.331	1.299	1.331										1.363297	4.33	0.043	1
DIBROMOFLUOROMETHANE	0.554	0.56	0.557	0.544	0.54	0.554	0.539	0.544	0.552	0.537	0.552										0.548371	1.43	0.014	1
1,1,1-TRICHLOROETHANE	1.061	0.922	1.019	0.978	0.931	0.943	0.912	0.933	0.95	0.911	0.932										0.953869	4.96	0.05	1
CARBON TETRACHLORIDE	0.724	0.789	0.781	0.788	0.828	0.735	0.735	0.743	0.77	0.747	0.771										0.764532	4.06	0.041	1
1,1-Dichloropropene	1.055	1.108	0.957	0.999	1.019	1.001	1.011	1.038	1.048	1.012	1.051										1.027152	3.83	0.038	1
2,2,4-TRIMETHYLPENTANE	3.265	3.409	2.997	3.002	3.056	3.145	3.06	3.198	3.21	3.061	3.21										3.146702	4.02	0.04	1
HEPTANE	1.531	1.384	1.391	1.223	1.354	1.394	1.371	1.479	1.448	1.444	1.488										1.409812	5.89	0.059	1
BENZENE	3.627	3.727	3.693	3.51	3.38	3.404	3.313	3.393	3.375	3.294	3.393										3.464597	4.38	0.044	1
1,2-DICHLOROETHANE	1.048	0.985	1.055	0.934	0.983	0.97	0.956	0.963	0.954	0.93	0.953										0.975555	4.25	0.042	1
8260-1,4-DIFLUOROBENZENE																								
TRICHLOROETHENE	0.337	0.378	0.392	0.383	0.377	0.376	0.365	0.37	0.369	0.365	0.367										0.370964	3.77	0.038	1
1,2-DICHLOROPROPANE	0.323	0.328	0.368	0.348	0.327	0.346	0.334	0.334	0.336	0.335	0.331										0.337228	3.78	0.038	1
DIBROMOMETHANE	0.187	0.222	0.228	0.238	0.219	0.223	0.219	0.22	0.22	0.215	0.216										0.218717	5.65	0.057	1
BROMODICHLOROMETHANE	0.687	0.555	0.569	0.538	0.539	0.541	0.534	0.548	0.549	0.549	0.548										0.559629	7.73	0.077	1

PDF Generated On: 11/24/2014 -- By: Amy Green

Environmental Science Corporation
12065 Lebanon Rd., Mt. Juliet, TN 37122

INITIAL CALIBRATION SUMMARY

Instrument ID	: VOCMS20	Review Method	: 8260B	Released By	: Amy Green
Method	: V820K23N	Review Protocol	: SW846	Released On	: 11/24/2014 2:53:06 PM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- V820K23N -- ICal Updated Time: Mon Nov 24 14:32:41 2014

Parameter	.25	.5	1	2	5.0	10	25	40	75	100	200	1A	2.5A	5A	7.5A	10A	12A	15A	17A	20A	AvgRF	%RSD	COD	Cur
a,a,a-Trifluorotoluene	0.53	0.525	0.529	0.528	0.511	0.512	0.502	0.491	0.498	0.48	0.468										0.50655	4.13	0.041	1
-CHLOROETHYL VINYL ETHER					0.12	0.141	0.163	0.152	0.174	0.17	0.18										0.157101	13.34	0.133	1
CIS-1,3-DICHLOROPROPENE	0.602	0.662	0.68	0.67	0.689	0.715	0.712	0.729	0.718	0.719	0.726										0.692868	5.49	0.055	1
4-METHYL-2-PENTANONE (MIBK)	0.121	0.127	0.133	0.127	0.134	0.145	0.15	0.152	0.151	0.148	0.149										0.139802	8.07	0.081	1
TOLUENE-D8	1.288	1.283	1.293	1.301	1.269	1.279	1.279	1.256	1.264	1.226	1.206										1.267614	2.29	0.023	1
TOLUENE	2.723	2.3	2.049	1.947	1.914	1.881	1.784	1.788	1.763	1.778	1.757										1.97112	15.11	0.151	1
TRANS-1,3-DICHLOROPROPENE	0.119	0.136	0.159	0.117	0.132	0.141	0.145	0.146	0.144	0.146	0.146										0.139262	8.89	0.089	1
8260-2-BROMO-1 -CHLOROPROPANE																								
1,1,2-TRICHLOROETHANE	1.778	2.227	2.022	1.997	1.993	2.03	1.928	2.009	1.938	1.952	1.975										1.986109	5.33	0.053	1
TETRACHLOROETHENE	1.645	1.501	1.534	1.488	1.466	1.506	1.425	1.477	1.446	1.475	1.504										1.496976	3.85	0.039	1
1,3-Dichloropropane	4.674	4.145	4.141	3.721	3.919	3.9	3.735	3.856	3.717	3.859	3.854										3.956501	7.06	0.071	1
2-HEXANONE	0.662	0.649	0.649	0.658	0.731	0.808	0.841	0.867	0.868	0.867	0.888										0.771638	13.18	0.132	1
CHLORODIBROMOMETHANE	1.893	1.977	1.836	1.824	1.882	1.929	1.911	1.969	1.943	1.998	2.02										1.925618	3.31	0.033	1
1,2-DIBROMOETHANE	1.727	1.836	1.857	1.821	1.796	1.887	1.84	1.896	1.853	1.884	1.905										1.845605	2.8	0.028	1
CHLOROBENZENE	7.028	6.715	6.213	6.291	6.465	6.702	6.374	6.634	6.401	6.582	6.536										6.540083	3.51	0.035	1
1,1,1,2-TETRACHLOROETHANE	2.146	1.96	1.924	1.901	1.954	2.031	1.902	1.996	1.998	2.011	1.975										1.98181	3.5	0.035	1
ETHYLBENZENE	3.398	3.065	3.133	3.007	3.18	3.504	3.452	3.575	3.525	3.644	3.583										3.369545	6.82	0.068	1
M&P-XYLENE	4.218	4.026	3.994	3.986	4.246	4.516	4.322	4.502	4.416	4.53	4.445										4.290983	4.95	0.05	1
O-XYLENE	3.812	3.926	3.55	3.691	3.975	4.248	4.137	4.375	4.307	4.399	4.259										4.061824	7.13	0.071	1
STYRENE			5.009	5.211	6.259	7.077	7.021	7.383	7.193	7.472	7.289										6.657048	14.2	0.142	1
Bromoform	0.7	0.925	1.116	0.975	1.048	1.072	1.053	1.111	1.088	1.122	1.112										1.029197	12.22	0.122	1
Isopropylbenzene	9.1	8.77	9.559999	9.28	10.18	10.89	10.61	11.2	11.06	11.21	10.63										10.22678	8.8	0.088	1

PDF Generated On: 11/24/2014 -- By: Amy Green

Environmental Science Corporation
12065 Lebanon Rd., Mt. Juliet, TN 37122

INITIAL CALIBRATION SUMMARY

Instrument ID	: VOCMS20	Review Method	: 8260B	Released By	: Amy Green
Method	: V820K23N	Review Protocol	: SW846	Released On	: 11/24/2014 2:53:06 PM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- V820K23N -- ICal Updated Time: Mon Nov 24 14:32:41 2014

Parameter	.25	.5	1	2	5.0	10	25	40	75	100	200	1A	2.5A	5A	7.5A	10A	12A	15A	17A	20A	AvgRF	%RSD	COD	Cur
4-BROMOFLUOROBENZENE	2.606	2.639	2.615	2.63	2.638	2.684	2.64	2.67	2.619	2.613	2.499										2.622983	1.81	0.018	1
Bromobenzene	5.954	5.849	5.618	5.548	5.552	5.748	5.352	5.474	5.34	5.431	5.24										5.554978	4.01	0.04	1
1,1,2,2-TETRACHLOROETHANE	2.182	2.548	2.73	2.571	2.546	2.757	2.576	2.62	2.531	2.518	2.501										2.552658	5.82	0.058	1
1,2,3-TRICHLOROPROPANE	0.533	0.711	0.775	0.721	0.736	0.79	0.726	0.729	0.705	0.716	0.701										0.712963	9.23	0.092	1
TRANS-1,4-DICHLORO-2-BUTENE		0.716	0.687	0.737	0.742	0.77	0.763	0.782	0.756	0.762	0.767										0.748181	3.84	0.038	1
n-Propylbenzene	14.85	13.94	12.83	13.02	13.36	14.06	13.55	13.93	13.77	13.99	13.2										13.68314	4.17	0.042	1
4-ETHYLTOLUENE	11.3	10.38	10.75	9.969999	10.57	11.33	10.92	11.43	11.17	11.3	10.69										10.89284	4.28	0.043	1
2-Chlorotoluene	2.512	2.668	2.49	2.472	2.594	2.696	2.524	2.593	2.507	2.546	2.444										2.549634	3.13	0.031	1
4-Chlorotoluene	8.694	8.058	8.21	8.264	8.446	8.873	8.548	8.842	8.59	8.692	8.314										8.502878	3.14	0.031	1
1,3,5-Trimethylbenzene	9.134	8.225	8.57	8.666	9.019	9.734	9.33	9.65	9.549	9.669	9.129										9.152332	5.46	0.055	1
tert-Butylbenzene	6.805	6.595	6.597	6.601	7.092	7.546	7.338	7.648	7.611	7.687	7.085										7.145857	6.23	0.062	1
1,2,4-Trimethylbenzene	9.278	7.956	8.157	8.656	9.176	9.918	9.665	9.853	9.721	9.757	9.195										9.211881	7.42	0.074	1
sec-Butylbenzene	10.37	10.57	10.44	10.76	11.72	12.59	11.9	12.5	12.41	12.38	11.51										11.56038	7.62	0.076	1
1,3-DICHLOROBENZENE	5.069	4.941	4.891	4.604	4.803	5.07	4.797	4.908	4.746	4.789	4.531										4.831675	3.51	0.035	1
p-Isopropyltoluene	7.56	7.8	7.92	8.63	9.26	9.98	9.639999	10.12	10.03	10.12	9.42										9.13507	10.83	0.108	1
DICYCLOPENTADIENE	9.28	10.13	10.53	11.07	11.91	12.75	12.23	12.86	12.92	13.04	12.25										11.7239	10.94	0.109	1
8260-1,4-DICHLOROBENZENE-D4																								
1,4-DICHLOROBENZENE	2.336	2.204	2.145	2.021	2.024	1.998	1.944	1.99	1.966	1.964	2.03										2.056532	5.92	0.059	1
1,2,3-TRIMETHYLBENZENE	4.098	3.738	4.046	3.998	3.996	4.104	3.998	4.176	4.149	4.106	4.225										4.057794	3.21	0.032	1
1,2-DICHLOROBENZENE	2.039	1.959	1.766	1.839	1.733	1.778	1.758	1.815	1.798	1.782	1.816										1.825596	5.06	0.051	1
n-Butylbenzene	4.199	3.765	3.493	3.604	3.745	3.826	3.874	4.068	4.03	3.964	3.866										3.857599	5.32	0.053	1
1,2-Dibromo-3-chloropropane		0.103	0.152	0.127	0.145	0.148	0.164	0.158	0.161	0.157	0.173										0.148913	13.7	0.137	1

PDF Generated On: 11/24/2014 -- By: Amy Green

Environmental Science Corporation
12065 Lebanon Rd., Mt. Juliet, TN 37122

INITIAL CALIBRATION SUMMARY

Instrument ID	: VOCMS20	Review Method	: 8260B	Released By	: Amy Green
Method	: V820K23N	Review Protocol	: SW846	Released On	: 11/24/2014 2:53:06 PM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- V820K23N -- ICal Updated Time: Mon Nov 24 14:32:41 2014

Parameter	.25	.5	1	2	5.0	10	25	40	75	100	200	1A	2.5A	5A	7.5A	10A	12A	15A	17A	20A	AvgRF	%RSD	COD	Cur
1,2,4-Trichlorobenzene	1.17	1.048	1.029	0.929	1.035	1.012	1.081	1.116	1.088	1.085	1.108										1.063793	5.98	0.06	1
HEXACHLORO-1,3-BUTADIENE	0.567	0.587	0.545	0.528	0.56	0.557	0.54	0.561	0.565	0.547	0.53										0.553258	3.17	0.032	1
Naphthalene	3.153	2.548	2.399	2.268	2.341	2.531	2.753	2.904	2.895	2.827	3.062										2.698171	11.07	0.111	1
1,2,3-Trichlorobenzene	0.916	0.934	0.945	0.902	0.957	0.989	1.009	1.026	0.997	0.983	1.015										0.970296	4.32	0.043	1
1-Methylnaphthalene		1.286	1.245	1.131	1.136	1.266	1.503	1.57	1.558	1.55	1.643										1.388868	14.04	0.14	1
2-Methylnaphthalene	1.383	1.153	1.051	0.97	1.034	1.152	1.365	1.384	1.341	1.321	1.376										1.230002	13.05	0.131	1
AP9-PENTAFLUOROBENZENE																								
ETHANOL												0.009	0.008	0.008	0.007	0.006	0.007	0.008	0.007	0.008	0.007565	9.6	0.096	1
Bromoethane												0.481	0.493	0.521	0.479	0.426	0.474	0.468	0.455	0.461	0.473093	5.53	0.055	1
2-PROPANOL																					0	0	0	1
Methyl Acetate												0.54	0.548	0.573	0.517	0.472	0.519	0.544	0.535	0.542	0.53223	5.26	0.053	1
ACETONITRILE												0.105	0.106	0.114	0.103	0.093	0.103	0.109	0.107	0.108	0.105414	5.35	0.053	1
ALLYL CHLORIDE												0.376	0.39	0.421	0.374	0.343	0.371	0.372	0.369	0.366	0.375877	5.6	0.056	1
tert-BUTYL ALCOHOL												0.137	0.135	0.133	0.113	0.098	0.105	0.114	0.114	0.111	0.11795	11.81	0.118	1
chloroprene												0.618	0.656	0.723	0.663	0.605	0.664	0.669	0.649	0.66	0.656369	5.06	0.051	1
ETHYL TERT-BUTYL ETHER												2.304	2.322	2.53	2.276	2.075	2.278	2.32	2.315	2.357	2.308566	5.05	0.05	1
PROPIONITRILE												0.104	0.108	0.114	0.103	0.091	0.102	0.108	0.105	0.107	0.104748	5.82	0.058	1
Ethyl Acetate												0.716	0.752	0.801	0.718	0.663	0.73	0.769	0.749	0.765	0.740472	5.33	0.053	1
METHACRYLONITRILE												0.31	0.315	0.331	0.298	0.274	0.301	0.316	0.308	0.312	0.307308	5.13	0.051	1
Cyclohexane												0.752	0.845	0.941	0.864	0.786	0.85	0.843	0.808	0.836	0.835936	6.35	0.063	1
tert-butyl formate												0.378	0.428	0.485	0.47	0.456	0.484	0.5	0.502	0.542	0.471657	10.06	0.101	1
ISOBUTANOL												0.034	0.037	0.04	0.039	0.036	0.038	0.04	0.04	0.042	0.038368	5.9	0.059	1

PDF Generated On: 11/24/2014 -- By: Amy Green

Environmental Science Corporation
12065 Lebanon Rd., Mt. Juliet, TN 37122

INITIAL CALIBRATION SUMMARY

Instrument ID	: VOCMS20	Review Method	: 8260B	Released By	: Amy Green
Method	: V820K23N	Review Protocol	: SW846	Released On	: 11/24/2014 2:53:06 PM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- V820K23N -- ICal Updated Time: Mon Nov 24 14:32:41 2014

Parameter	.25	.5	1	2	5.0	10	25	40	75	100	200	1A	2.5A	5A	7.5A	10A	12A	15A	17A	20A	AvgRF	%RSD	COD	Cur
-Amyl Alcohol												0.048	0.055	0.06	0.05	0.044	0.049	0.054	0.053	0.054	0.051723	8.78	0.088	1
TERT-AMYL METHYL ETHER												2.089	2.033	2.217	1.985	1.848	1.991	2.012	2.016	2.073	2.029213	4.86	0.049	1
AP9-1,4-DIFLUOROBENZENE																								
N-BUTANOL												0.01	0.011	0.012	0.011	0.01	0.011	0.012	0.012	0.012	0.011295	8.72	0.087	1
Methyl Cyclohexane												1.103	0.8	0.738	0.617	0.55	0.589	0.581	0.565	0.57	0.679202	26.59	0.996	0
-nitropropane												0.091	0.088	0.092	0.085	0.079	0.086	0.091	0.093	0.094	0.088716	5.66	0.057	1
METHYL METHACRYLATE												0.34	0.35	0.389	0.349	0.318	0.352	0.38	0.364	0.365	0.356259	5.95	0.06	1
1,4-DIOXANE												0.003	0.004	0.004	0.004	0.003	0.004	0.004	0.004	0.004	0.00358	7.63	0.076	1
n-octane												0.275	0.309	0.328	0.294	0.278	0.298	0.309	0.287	0.292	0.296598	5.59	0.056	1
3,3-DIMETHYL-1-BUTANOL												0.028	0.027	0.029	0.025	0.023	0.027	0.029	0.029	0.029	0.027507	7.34	0.073	1
AP9-2-BROMO-1 -CHLOROPROPANE																								
ETHYL METHACRYLATE												2.747	2.843	3.109	2.938	2.735	3.139	3.149	3.123	3.206	2.99876	6.16	0.062	1
CIS-1,4-DICHLORO-2-BUTENE												0.771	0.825	0.824	0.783	0.72	0.823	0.824	0.797	0.83	0.799643	4.6	0.046	1
Cyclohexanone																					0	0	0	1
PENTACHLOROETHANE												1.475	1.362	1.431	1.486	1.371	1.296	1.486	1.142	1.513	1.395825	8.54	0.085	1
Hexachloroethane												1.712	1.778	1.891	1.703	1.526	1.778	1.707	1.644	1.742	1.719916	5.83	0.058	1
AP9-1,4-DICHLOROBENZENE-D4																								

PDF Generated On: 11/24/2014 - By: Amy Green

Environmental Science Corporation
12065 Lebanon Rd., Mt. Juliet, TN 37122

INITIAL CALIBRATION SUMMARY

Instrument ID	: VOCMS20	Review Method	: 8260C	Released By	: Amy Green
Method	: V820K23N	Review Protocol	: SW846	Released On	: 11/24/2014 2:53:50 PM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- V820K23N -- ICal Updated Time: Mon Nov 24 14:32:41 2014

Parameter	.25	.5	1	2	5.0	10	25	40	75	100	200	1A	2.5A	5A	7.5A	10A	12A	15A	17A	20A	AvgRF	%RSD	COD	Cur	RF
8260-PENTAFLUOROBENZENE																									
TPH (GC/MS) LOW FRACTION																					0	0	0	1	
PROPENE				0.236	0.181	0.192	0.175	0.172	0.178	0.172	0.173										0.184855	11.8	0.118	1	
DICHLORODIFLUOROMETHANE	0.701	0.748	0.637	0.664	0.631	0.658	0.634	0.655	0.663	0.624	0.638										0.659327	5.52	0.055	1	0.1
CHLOROMETHANE	1.274	1.157	1.138	1.12	1.077	1.085	1.041	1.062	1.077	1.045	1.061										1.103495	6.15	0.061	1	0.1
VINYL CHLORIDE	0.857	0.982	0.968	0.979	0.911	0.947	0.89	0.924	0.921	0.892	0.907										0.925281	4.33	0.043	1	0.1
1,3-BUTADIENE	0.87	0.806	0.793	0.715	0.693	0.683	0.667	0.691	0.704	0.67	0.699										0.726447	9.12	0.091	1	
BROMOMETHANE	0.748	0.636	0.587	0.594	0.557	0.572	0.526	0.543	0.551	0.535	0.54										0.580908	11.03	0.11	1	0.1
CHLOROETHANE		0.121	0.18	0.194	0.165	0.179	0.162	0.164	0.163	0.16	0.161										0.164754	11.42	0.114	1	0.1
TRICHLOROFLUOROMETHANE	0.907	0.942	0.841	0.873	0.836	0.857	0.815	0.833	0.845	0.82	0.849										0.856087	4.46	0.045	1	0.1
DICHLOROFLUOROMETHANE	1.324	1.413	1.308	1.248	1.193	1.243	1.168	1.198	1.213	1.177	1.193										1.243407	6.1	0.061	1	
ETHYL ETHER	0.726	0.717	0.837	0.676	0.691	0.703	0.682	0.678	0.677	0.657	0.667										0.701073	7.07	0.071	1	
ACROLEIN	0.126	0.117	0.111	0.105	0.109	0.116	0.112	0.114	0.111	0.107	0.108										0.112378	5.27	0.053	1	
1,1-DICHLOROETHENE	1.164	1.012	1.112	1.125	1.024	1.04	1.019	1.025	1.032	0.986	1.032										1.051869	5.27	0.053	1	0.1
1,1,2 -TRICHLOROTRIFLUOROETHANE	0.573	0.683	0.585	0.571	0.577	0.545	0.552	0.567	0.579	0.552	0.578										0.57832	6.41	0.064	1	0.1
ACETONE			0.267	0.228	0.206	0.203	0.195	0.198	0.19	0.185	0.17										0.204617	13.78	0.138	1	0.1
IODOMETHANE	0.991	1.094	1.092	1.031	1	1.021	0.988	1.003	1.022	0.998	1.057										1.02689	3.73	0.037	1	
CARBON DISULFIDE	2.839	2.723	2.677	2.555	2.42	2.428	2.391	2.432	2.444	2.35	2.451										2.519193	6.29	0.063	1	0.1
METHYLENE CHLORIDE	0.88	0.895	0.953	0.892	0.855	0.873	0.838	0.841	0.848	0.821	0.837										0.866616	4.34	0.043	1	0.1
ACRYLONITRILE	0.261	0.274	0.28	0.264	0.265	0.279	0.283	0.282	0.281	0.272	0.28										0.2746	2.91	0.029	1	
n-Hexane	0.876	0.847	0.82	0.773	0.759	0.74	0.743	0.767	0.747	0.732	0.744										0.777059	6.25	0.063	1	
TRANS-1,2-DICHLOROETHENE	0.831	0.803	0.843	0.777	0.74	0.749	0.726	0.749	0.762	0.734	0.761										0.770634	5.09	0.051	1	0.1
METHYL TERT-BUTYL ETHER	1.972	2.236	2.181	1.989	2.04	2.123	2.134	2.163	2.144	2.087	2.154										2.111081	3.82	0.039	1	0.1

PDF Generated On: 11/24/2014 - By: Amy Green

Environmental Science Corporation
12065 Lebanon Rd., Mt. Juliet, TN 37122

INITIAL CALIBRATION SUMMARY

Instrument ID	: VOCMS20	Review Method	: 8260C	Released By	: Amy Green
Method	: V820K23N	Review Protocol	: SW846	Released On	: 11/24/2014 2:53:50 PM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- V820K23N -- ICal Updated Time: Mon Nov 24 14:32:41 2014

Parameter	.25	.5	1	2	5.0	10	25	40	75	100	200	1A	2.5A	5A	7.5A	10A	12A	15A	17A	20A	AvgRF	%RSD	COD	Cur	RF
1,1-DICHLOROETHANE	1.601	1.498	1.563	1.528	1.494	1.509	1.457	1.486	1.483	1.446	1.492										1.505273	2.98	0.03	1	0.2
VINYL ACETATE	1.127	1.236	1.311	1.167	1.246	1.233	1.211	1.194	1.162	1.113	1.111										1.191912	5.28	0.053	1	
DI-ISOPROPYL ETHER	2.898	2.972	3.078	3.017	2.987	3.087	3.084	3.153	3.179	3.123	3.215										3.072117	3.12	0.031	1	
2,2-Dichloropropane	0.844	0.703	0.739	0.806	0.745	0.742	0.705	0.693	0.718	0.687	0.661										0.731005	7.32	0.073	1	
CIS-1,2-DICHLOROETHENE	0.842	0.867	0.869	0.824	0.831	0.87	0.836	0.846	0.845	0.829	0.845										0.845924	1.93	0.019	1	0.1
2-BUTANONE (MEK)	0.06	0.09	0.084	0.076	0.083	0.083	0.085	0.087	0.085	0.083	0.085										0.081839	9.84	0.098	1	0.1
BROMOCHLOROMETHANE	0.537	0.458	0.483	0.464	0.445	0.458	0.438	0.45	0.454	0.436	0.447										0.460799	6.16	0.062	1	
TETRAHYDROFURAN	0.288	0.26	0.283	0.234	0.234	0.235	0.24	0.238	0.23	0.23	0.231										0.245619	8.77	0.088	1	
CHLOROFORM	1.407	1.495	1.437	1.346	1.354	1.351	1.317	1.327	1.331	1.299	1.331										1.363297	4.33	0.043	1	0.2
DIBROMOFLUOROMETHANE	0.554	0.56	0.557	0.544	0.54	0.554	0.539	0.544	0.552	0.537	0.552										0.548371	1.43	0.014	1	
1,1,1-TRICHLOROETHANE	1.061	0.922	1.019	0.978	0.931	0.943	0.912	0.933	0.95	0.911	0.932										0.953869	4.96	0.05	1	0.1
CARBON TETRACHLORIDE	0.724	0.789	0.781	0.788	0.828	0.735	0.735	0.743	0.77	0.747	0.771										0.764532	4.06	0.041	1	0.1
1,1-Dichloropropene	1.055	1.108	0.957	0.999	1.019	1.001	1.011	1.038	1.048	1.012	1.051										1.027152	3.83	0.038	1	
2,2,4-TRIMETHYLPENTANE	3.265	3.409	2.997	3.002	3.056	3.145	3.06	3.198	3.21	3.061	3.21										3.146702	4.02	0.04	1	
HEPTANE	1.531	1.384	1.391	1.223	1.354	1.394	1.371	1.479	1.448	1.444	1.488										1.409812	5.89	0.059	1	
BENZENE	3.627	3.727	3.693	3.51	3.38	3.404	3.313	3.393	3.375	3.294	3.393										3.464597	4.38	0.044	1	0.5
1,2-DICHLOROETHANE	1.048	0.985	1.055	0.934	0.983	0.97	0.956	0.963	0.954	0.93	0.953										0.975555	4.25	0.042	1	0.1
8260-1,4-DIFLUOROBENZENE																									
TRICHLOROETHENE	0.337	0.378	0.392	0.383	0.377	0.376	0.365	0.37	0.369	0.365	0.367										0.370964	3.77	0.038	1	0.2
1,2-DICHLOROPROPANE	0.323	0.328	0.368	0.348	0.327	0.346	0.334	0.334	0.336	0.335	0.331										0.337228	3.78	0.038	1	0.1
DIBROMOMETHANE	0.187	0.222	0.228	0.238	0.219	0.223	0.219	0.22	0.22	0.215	0.216										0.218717	5.65	0.057	1	
BROMODICHLOROMETHANE	0.687	0.555	0.569	0.538	0.539	0.541	0.534	0.548	0.549	0.549	0.548										0.559629	7.73	0.077	1	0.2

PDF Generated On: 11/24/2014 -- By: Amy Green

Environmental Science Corporation
12065 Lebanon Rd., Mt. Juliet, TN 37122

INITIAL CALIBRATION SUMMARY

Instrument ID	: VOCMS20	Review Method	: 8260C	Released By	: Amy Green
Method	: V820K23N	Review Protocol	: SW846	Released On	: 11/24/2014 2:53:50 PM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- V820K23N -- ICal Updated Time: Mon Nov 24 14:32:41 2014

Parameter	.25	.5	1	2	5.0	10	25	40	75	100	200	1A	2.5A	5A	7.5A	10A	12A	15A	17A	20A	AvgRF	%RSD	COD	Cur	RF
a,a,a-Trifluorotoluene	0.53	0.525	0.529	0.528	0.511	0.512	0.502	0.491	0.498	0.48	0.468										0.50655	4.13	0.041	1	
-CHLOROETHYL VINYL ETHER					0.12	0.141	0.163	0.152	0.174	0.17	0.18										0.157101	13.34	0.133	1	
CIS-1,3-DICHLOROPROPENE	0.602	0.662	0.68	0.67	0.689	0.715	0.712	0.729	0.718	0.719	0.726										0.692868	5.49	0.055	1	0.2
4-METHYL-2-PENTANONE (MIBK)	0.121	0.127	0.133	0.127	0.134	0.145	0.15	0.152	0.151	0.148	0.149										0.139802	8.07	0.081	1	0.1
TOLUENE-D8	1.288	1.283	1.293	1.301	1.269	1.279	1.279	1.256	1.264	1.226	1.206										1.267614	2.29	0.023	1	
TOLUENE	2.723	2.3	2.049	1.947	1.914	1.881	1.784	1.788	1.763	1.778	1.757										1.97112	15.11	0.151	1	0.4
TRANS-1,3-DICHLOROPROPENE	0.119	0.136	0.159	0.117	0.132	0.141	0.145	0.146	0.144	0.146	0.146										0.139262	8.89	0.089	1	0.1
8260-2-BROMO-1 -CHLOROPROPANE																									
1,1,2-TRICHLOROETHANE	1.778	2.227	2.022	1.997	1.993	2.03	1.928	2.009	1.938	1.952	1.975										1.986109	5.33	0.053	1	0.1
TETRACHLOROETHENE	1.645	1.501	1.534	1.488	1.466	1.506	1.425	1.477	1.446	1.475	1.504										1.496976	3.85	0.039	1	0.2
1,3-Dichloropropane	4.674	4.145	4.141	3.721	3.919	3.9	3.735	3.856	3.717	3.859	3.854										3.956501	7.06	0.071	1	
2-HEXANONE	0.662	0.649	0.649	0.658	0.731	0.808	0.841	0.867	0.868	0.867	0.888										0.771638	13.18	0.132	1	0.1
CHLORODIBROMOMETHANE	1.893	1.977	1.836	1.824	1.882	1.929	1.911	1.969	1.943	1.998	2.02										1.925618	3.31	0.033	1	0.1
1,2-DIBROMOETHANE	1.727	1.836	1.857	1.821	1.796	1.887	1.84	1.896	1.853	1.884	1.905										1.845605	2.8	0.028	1	0.1
CHLOROBENZENE	7.028	6.715	6.213	6.291	6.465	6.702	6.374	6.634	6.401	6.582	6.536										6.540083	3.51	0.035	1	0.5
1,1,1,2-TETRACHLOROETHANE	2.146	1.96	1.924	1.901	1.954	2.031	1.902	1.996	1.998	2.011	1.975										1.98181	3.5	0.035	1	
ETHYLBENZENE	3.398	3.065	3.133	3.007	3.18	3.504	3.452	3.575	3.525	3.644	3.583										3.369545	6.82	0.068	1	0.1
M&P-XYLENE	4.218	4.026	3.994	3.986	4.246	4.516	4.322	4.502	4.416	4.53	4.445										4.290983	4.95	0.05	1	0.1
O-XYLENE	3.812	3.926	3.55	3.691	3.975	4.248	4.137	4.375	4.307	4.399	4.259										4.061824	7.13	0.071	1	0.3
STYRENE			5.009	5.211	6.259	7.077	7.021	7.383	7.193	7.472	7.289										6.657048	14.2	0.142	1	0.3
Bromoform	0.7	0.925	1.116	0.975	1.048	1.072	1.053	1.111	1.088	1.122	1.112										1.029197	12.22	0.122	1	0.1
Isopropylbenzene	9.1	8.77	9.559999	9.28	10.18	10.89	10.61	11.2	11.06	11.21	10.63										10.22678	8.8	0.088	1	0.1

PDF Generated On: 11/24/2014 -- By: Amy Green

Environmental Science Corporation
12065 Lebanon Rd., Mt. Juliet, TN 37122

INITIAL CALIBRATION SUMMARY

Instrument ID	: VOCMS20	Review Method	: 8260C	Released By	: Amy Green
Method	: V820K23N	Review Protocol	: SW846	Released On	: 11/24/2014 2:53:50 PM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- V820K23N -- ICal Updated Time: Mon Nov 24 14:32:41 2014

Parameter	.25	.5	1	2	5.0	10	25	40	75	100	200	1A	2.5A	5A	7.5A	10A	12A	15A	17A	20A	AvgRF	%RSD	COD	Cur	RF
4-BROMOFLUOROBENZENE	2.606	2.639	2.615	2.63	2.638	2.684	2.64	2.67	2.619	2.613	2.499										2.622983	1.81	0.018	1	
Bromobenzene	5.954	5.849	5.618	5.548	5.552	5.748	5.352	5.474	5.34	5.431	5.24										5.554978	4.01	0.04	1	
1,1,2,2-TETRACHLOROETHANE	2.182	2.548	2.73	2.571	2.546	2.757	2.576	2.62	2.531	2.518	2.501										2.552658	5.82	0.058	1	0.3
1,2,3-TRICHLOROPROPANE	0.533	0.711	0.775	0.721	0.736	0.79	0.726	0.729	0.705	0.716	0.701										0.712963	9.23	0.092	1	
TRANS-1,4-DICHLORO-2-BUTENE		0.716	0.687	0.737	0.742	0.77	0.763	0.782	0.756	0.762	0.767										0.748181	3.84	0.038	1	
n-Propylbenzene	14.85	13.94	12.83	13.02	13.36	14.06	13.55	13.93	13.77	13.99	13.2										13.68314	4.17	0.042	1	
4-ETHYLTOLUENE	11.3	10.38	10.75	9.969999	10.57	11.33	10.92	11.43	11.17	11.3	10.69										10.89284	4.28	0.043	1	
2-Chlorotoluene	2.512	2.668	2.49	2.472	2.594	2.696	2.524	2.593	2.507	2.546	2.444										2.549634	3.13	0.031	1	
4-Chlorotoluene	8.694	8.058	8.21	8.264	8.446	8.873	8.548	8.842	8.59	8.692	8.314										8.502878	3.14	0.031	1	
1,3,5-Trimethylbenzene	9.134	8.225	8.57	8.666	9.019	9.734	9.33	9.65	9.549	9.669	9.129										9.152332	5.46	0.055	1	
tert-Butylbenzene	6.805	6.595	6.597	6.601	7.092	7.546	7.338	7.648	7.611	7.687	7.085										7.145857	6.23	0.062	1	
1,2,4-Trimethylbenzene	9.278	7.956	8.157	8.656	9.176	9.918	9.665	9.853	9.721	9.757	9.195										9.211881	7.42	0.074	1	
sec-Butylbenzene	10.37	10.57	10.44	10.76	11.72	12.59	11.9	12.5	12.41	12.38	11.51										11.56038	7.62	0.076	1	
1,3-DICHLOROBENZENE	5.069	4.941	4.891	4.604	4.803	5.07	4.797	4.908	4.746	4.789	4.531										4.831675	3.51	0.035	1	0.6
p-Isopropyltoluene	7.56	7.8	7.92	8.63	9.26	9.98	9.639999	10.12	10.03	10.12	9.42										9.13507	10.83	0.108	1	
DICYCLOPENTADIENE	9.28	10.13	10.53	11.07	11.91	12.75	12.23	12.86	12.92	13.04	12.25										11.7239	10.94	0.109	1	
8260-1,4-DICHLOROBENZENE-D4																									
1,4-DICHLOROBENZENE	2.336	2.204	2.145	2.021	2.024	1.998	1.944	1.99	1.966	1.964	2.03										2.056532	5.92	0.059	1	
1,2,3-TRIMETHYLBENZENE	4.098	3.738	4.046	3.998	3.996	4.104	3.998	4.176	4.149	4.106	4.225										4.057794	3.21	0.032	1	
1,2-DICHLOROBENZENE	2.039	1.959	1.766	1.839	1.733	1.778	1.758	1.815	1.798	1.782	1.816										1.825596	5.06	0.051	1	0.4
n-Butylbenzene	4.199	3.765	3.493	3.604	3.745	3.826	3.874	4.068	4.03	3.964	3.866										3.857599	5.32	0.053	1	
1,2-Dibromo-3-chloropropane		0.103	0.152	0.127	0.145	0.148	0.164	0.158	0.161	0.157	0.173										0.148913	13.7	0.137	1	0.05

PDF Generated On: 11/24/2014 -- By: Amy Green

Environmental Science Corporation
12065 Lebanon Rd., Mt. Juliet, TN 37122

INITIAL CALIBRATION SUMMARY

Instrument ID	: VOCMS20	Review Method	: 8260C	Released By	: Amy Green
Method	: V820K23N	Review Protocol	: SW846	Released On	: 11/24/2014 2:53:50 PM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- V820K23N -- ICal Updated Time: Mon Nov 24 14:32:41 2014

Parameter	.25	.5	1	2	5.0	10	25	40	75	100	200	1A	2.5A	5A	7.5A	10A	12A	15A	17A	20A	AvgRF	%RSD	COD	Cur	RF
1,2,4-Trichlorobenzene	1.17	1.048	1.029	0.929	1.035	1.012	1.081	1.116	1.088	1.085	1.108										1.063793	5.98	0.06	1	0.2
HEXACHLORO-1,3-BUTADIENE	0.567	0.587	0.545	0.528	0.56	0.557	0.54	0.561	0.565	0.547	0.53										0.553258	3.17	0.032	1	
Naphthalene	3.153	2.548	2.399	2.268	2.341	2.531	2.753	2.904	2.895	2.827	3.062										2.698171	11.07	0.111	1	
1,2,3-Trichlorobenzene	0.916	0.934	0.945	0.902	0.957	0.989	1.009	1.026	0.997	0.983	1.015										0.970296	4.32	0.043	1	
1-Methylnaphthalene		1.286	1.245	1.131	1.136	1.266	1.503	1.57	1.558	1.55	1.643										1.388868	14.04	0.14	1	
2-Methylnaphthalene	1.383	1.153	1.051	0.97	1.034	1.152	1.365	1.384	1.341	1.321	1.376										1.230002	13.05	0.131	1	
AP9-PENTAFLUOROBENZENE																									
ETHANOL												0.009	0.008	0.008	0.007	0.006	0.007	0.008	0.007	0.008	0.007565	9.6	0.096	1	
Bromoethane												0.481	0.493	0.521	0.479	0.426	0.474	0.468	0.455	0.461	0.473093	5.53	0.055	1	
2-PROPANOL																					0	0	0	1	
Methyl Acetate												0.54	0.548	0.573	0.517	0.472	0.519	0.544	0.535	0.542	0.53223	5.26	0.053	1	0.1
ACETONITRILE												0.105	0.106	0.114	0.103	0.093	0.103	0.109	0.107	0.108	0.105414	5.35	0.053	1	
ALLYL CHLORIDE												0.376	0.39	0.421	0.374	0.343	0.371	0.372	0.369	0.366	0.375877	5.6	0.056	1	
tert-BUTYL ALCOHOL												0.137	0.135	0.133	0.113	0.098	0.105	0.114	0.114	0.111	0.11795	11.81	0.118	1	
chloroprene												0.618	0.656	0.723	0.663	0.605	0.664	0.669	0.649	0.66	0.656369	5.06	0.051	1	
ETHYL TERT-BUTYL ETHER												2.304	2.322	2.53	2.276	2.075	2.278	2.32	2.315	2.357	2.308566	5.05	0.05	1	
PROPIONITRILE												0.104	0.108	0.114	0.103	0.091	0.102	0.108	0.105	0.107	0.104748	5.82	0.058	1	
Ethyl Acetate												0.716	0.752	0.801	0.718	0.663	0.73	0.769	0.749	0.765	0.740472	5.33	0.053	1	
METHACRYLONITRILE												0.31	0.315	0.331	0.298	0.274	0.301	0.316	0.308	0.312	0.307308	5.13	0.051	1	
Cyclohexane												0.752	0.845	0.941	0.864	0.786	0.85	0.843	0.808	0.836	0.835936	6.35	0.063	1	0.1
tert-butyl formate												0.378	0.428	0.485	0.47	0.456	0.484	0.5	0.502	0.542	0.471657	10.06	0.101	1	
ISOBUTANOL												0.034	0.037	0.04	0.039	0.036	0.038	0.04	0.04	0.042	0.038368	5.9	0.059	1	

Environmental Science Corporation
12065 Lebanon Rd., Mt. Juliet, TN 37122

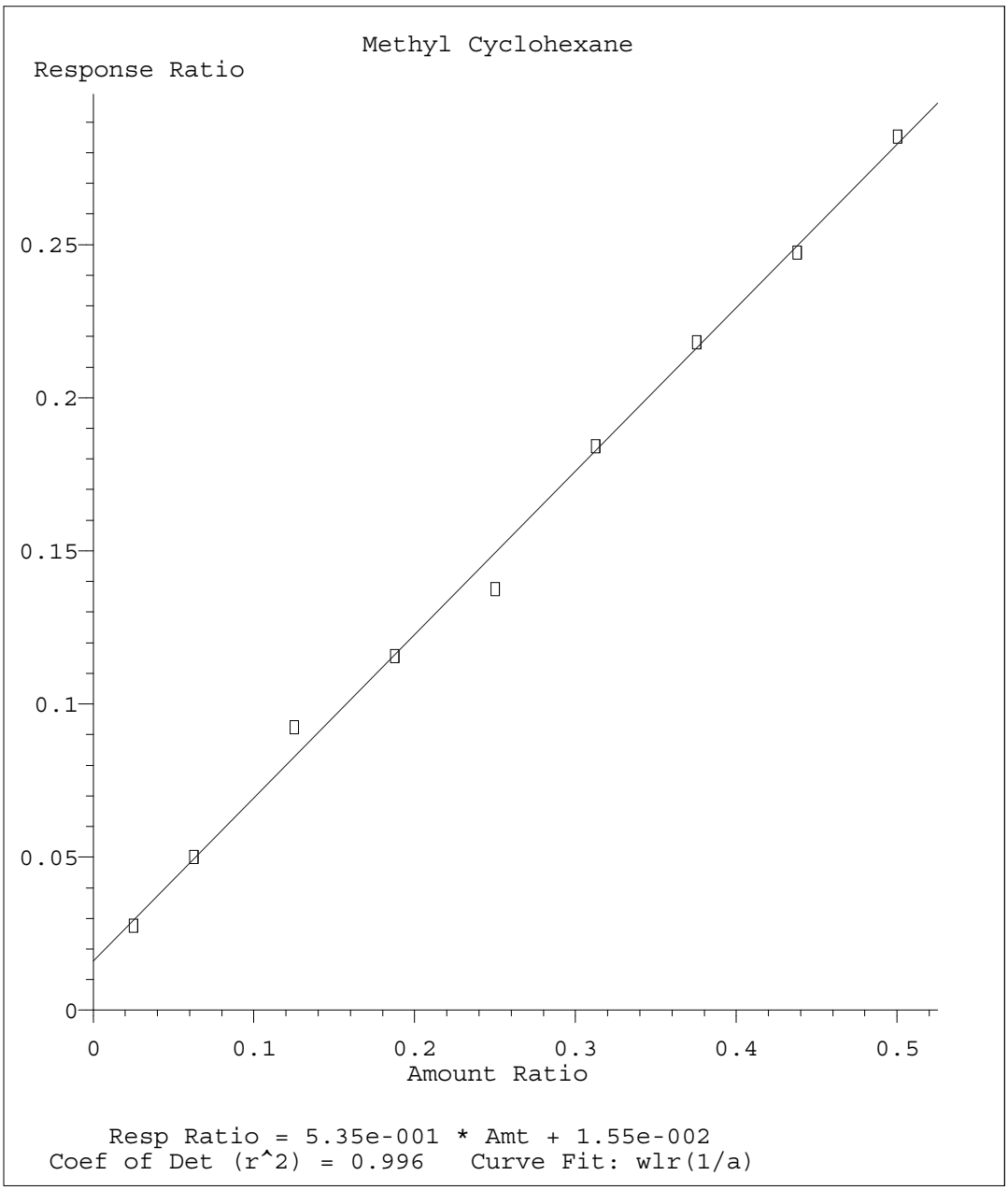
INITIAL CALIBRATION SUMMARY

Instrument ID	: VOCMS20	Review Method	: 8260C	Released By	: Amy Green
Method	: V820K23N	Review Protocol	: SW846	Released On	: 11/24/2014 2:53:50 PM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- V820K23N -- ICal Updated Time: Mon Nov 24 14:32:41 2014

Parameter	.25	.5	1	2	5.0	10	25	40	75	100	200	1A	2.5A	5A	7.5A	10A	12A	15A	17A	20A	AvgRF	%RSD	COD	Cur	RF
-Amyl Alcohol												0.048	0.055	0.06	0.05	0.044	0.049	0.054	0.053	0.054	0.051723	8.78	0.088	1	
TERT-AMYL METHYL ETHER												2.089	2.033	2.217	1.985	1.848	1.991	2.012	2.016	2.073	2.029213	4.86	0.049	1	
AP9-1,4-DIFLUOROBENZENE																									
N-BUTANOL												0.01	0.011	0.012	0.011	0.01	0.011	0.012	0.012	0.012	0.011295	8.72	0.087	1	
Methyl Cyclohexane												1.103	0.8	0.738	0.617	0.55	0.589	0.581	0.565	0.57	0.679202	26.59	0.996	0	0.1
-nitropropane												0.091	0.088	0.092	0.085	0.079	0.086	0.091	0.093	0.094	0.088716	5.66	0.057	1	
METHYL METHACRYLATE												0.34	0.35	0.389	0.349	0.318	0.352	0.38	0.364	0.365	0.356259	5.95	0.06	1	
1,4-DIOXANE												0.003	0.004	0.004	0.004	0.003	0.004	0.004	0.004	0.004	0.00358	7.63	0.076	1	
n-octane												0.275	0.309	0.328	0.294	0.278	0.298	0.309	0.287	0.292	0.296598	5.59	0.056	1	
3,3-DIMETHYL-1-BUTANOL												0.028	0.027	0.029	0.025	0.023	0.027	0.029	0.029	0.029	0.027507	7.34	0.073	1	
AP9-2-BROMO-1 -CHLOROPROPANE																									
ETHYL METHACRYLATE												2.747	2.843	3.109	2.938	2.735	3.139	3.149	3.123	3.206	2.99876	6.16	0.062	1	
CIS-1,4-DICHLORO-2-BUTENE												0.771	0.825	0.824	0.783	0.72	0.823	0.824	0.797	0.83	0.799643	4.6	0.046	1	
Cyclohexanone																					0	0	0	1	
PENTACHLOROETHANE												1.475	1.362	1.431	1.486	1.371	1.296	1.486	1.142	1.513	1.395825	8.54	0.085	1	
Hexachloroethane												1.712	1.778	1.891	1.703	1.526	1.778	1.707	1.644	1.742	1.719916	5.83	0.058	1	
AP9-1,4-DICHLOROBENZENE-D4																									

PDF Generated On: 11/24/2014 - By: Amy Green



Method Name: C:\MSDchem\1\methods\V820K23N.M

Quantitation Report (QT Reviewed)

Data Path : C:\MSDchem\1\data\112314a\
Data File : 1123 02a.D
Acq On : 23 Nov 2014 11:57 pm
Operator : 644
Sample : INSTBLK VMS
Misc : water IS/SURR14K01013
ALS Vial : 2 Sample Multiplier: 1
InstName : VOCMS20

Quant Time: Nov 24 14:40:17 2014
Quant Method : C:\MSDchem\1\methods\V820K23N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS20
QLast Update : Mon Nov 24 14:32:41 2014
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 8260-PENTAFLUOROBENZENE	4.341	168	463370	40.0000000 ppb	0.00
41) 8260-1,4-DIFLUOROBENZENE	4.673	114	893573	40.0000000 ppb	0.00
53) 8260-2-BROMO-1-CHLOROP...	5.840	79	148559	40.0000000 ppb	0.00
84) 8260-1,4-DICHLOROBENZE...	8.219	152	359152	40.0000000 ppb	0.00
96) AP9-PENTAFLUOROBENZENE	4.341	168	463370	40.0000000 ppb	0.00
114) AP9-1,4-DIFLUOROBENZENE	4.673	114	893573	40.0000000 ppb	0.00
122) AP9-2-BROMO-1-CHLOROPR...	5.840	79	148559	40.0000000 ppb	# 0.00
128) AP9-1,4-DICHLOROBENZEN...	8.219	152	359152	40.0000000 ppb	0.00
System Monitoring Compounds					
33) DIBROMOFLUOROMETHANE	4.110	111	256001	40.2994998 ppb	0.00
Spiked Amount 40.000	Range 78 - 121		Recovery = 100.75%		
46) a,a,a-Trifluorotoluene	5.036	146	477326	42.1815657 ppb	0.00
Spiked Amount 40.000	Range 85 - 114		Recovery = 105.45%		
50) TOLUENE-D8	5.499	98	1158879	40.9242894 ppb	0.00
Spiked Amount 40.000	Range 89 - 111		Recovery = 102.31%		
68) 4-BROMOFLUOROBENZENE	7.377	95	381677	39.1797332 ppb	0.00
Spiked Amount 40.000	Range 71 - 126		Recovery = 97.95%		
Target Compounds					Qvalue
2) TPH (GC/MS) LOW FRACTION	4.096	TIC -7769502		No Calib	
3) PROPENE	1.670	41	658	0.3072746 ppb #	53
4) DICHLORODIFLUOROMETHANE	0.000		0	N.D.	
5) CHLOROMETHANE	0.000		0	N.D.	
6) VINYL CHLORIDE	0.000		0	N.D.	
7) 1,3-BUTADIENE	0.000		0	N.D.	
8) BROMOMETHANE	0.000		0	N.D.	
9) CHLOROETHANE	0.000		0	N.D.	
10) TRICHLOROFLUOROMETHANE	0.000		0	N.D.	
11) DICHLOROFLUOROMETHANE	0.000		0	N.D.	
12) ETHYL ETHER	0.000		0	N.D.	
13) ACROLEIN	0.000		0	N.D.	
14) 1,1-DICHLOROETHENE	0.000		0	N.D.	
15) 1,1,2-TRICHLOROTRIFLUO...	0.000		0	N.D.	
16) ACETONE	3.129	43	4140	1.7465875 ppb	90
17) IODOMETHANE	0.000		0	N.D.	
18) CARBON DISULFIDE	2.782	76	676	N.D.	
19) METHYLENE CHLORIDE	0.000		0	N.D.	
20) ACRYLONITRILE	0.000		0	N.D.	
21) n-Hexane	0.000		0	N.D.	
22) TRANS-1,2-DICHLOROETHENE	0.000		0	N.D.	
23) METHYL TERT-BUTYL ETHER	0.000		0	N.D.	
24) 1,1-DICHLOROETHANE	0.000		0	N.D.	
25) VINYL ACETATE	0.000		0	N.D.	
26) DI-ISOPROPYL ETHER	0.000		0	N.D.	
27) 2,2-Dichloropropane	0.000		0	N.D.	
28) CIS-1,2-DICHLOROETHENE	0.000		0	N.D.	
29) 2-BUTANONE (MEK)	0.000		0	N.D.	
30) BROMOCHLOROMETHANE	0.000		0	N.D.	
31) TETRAHYDROFURAN	0.000		0	N.D.	
32) CHLOROFORM	0.000		0	N.D.	
34) 1,1,1-TRICHLOROETHANE	0.000		0	N.D.	
35) CARBON TETRACHLORIDE	0.000		0	N.D.	

Quantitation Report (QT Reviewed)

Data Path : C:\MSDchem\1\data\112314a\
Data File : 1123 02a.D
Acq On : 23 Nov 2014 11:57 pm
Operator : 644
Sample : INSTBLK VMS
Misc : water IS/SURR14K01013
ALS Vial : 2 Sample Multiplier: 1
InstName : VOCMS20

Quant Time: Nov 24 14:40:17 2014
Quant Method : C:\MSDchem\1\methods\V820K23N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS20
QLast Update : Mon Nov 24 14:32:41 2014
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
36) 1,1-Dichloropropene	0.000		0	N.D.	
37) 2,2,4-TRIMETHYLPENTANE	4.229	57	504	N.D.	
38) HEPTANE	4.348	43	595	N.D.	
39) BENZENE	4.345	78	1361	N.D.	
40) 1,2-DICHLOROETHANE	0.000		0	N.D.	
42) TRICHLOROETHENE	0.000		0	N.D.	
43) 1,2-DICHLOROPROPANE	5.036	62	9306	1.2352918 ppb #	22
44) DIBROMOMETHANE	5.036	93	1940	0.3970531 ppb #	1
45) BROMODICHLOROMETHANE	0.000		0	N.D.	
47) 2-CHLOROETHYL VINYL ETHER	0.000		0	N.D.	
48) CIS-1,3-DICHLOROPROPENE	0.000		0	N.D.	
49) 4-METHYL-2-PENTANONE (...	0.000		0	N.D.	
51) TOLUENE	5.534	91	5055	N.D.	
52) TRANS-1,3-DICHLOROPROPENE	0.000		0	N.D.	
54) 1,1,2-TRICHLOROETHANE	0.000		0	N.D.	
55) TETRACHLOROETHENE	0.000		0	N.D.	
56) 1,3-Dichloropropane	0.000		0	N.D.	
57) 2-HEXANONE	0.000		0	N.D.	
58) CHLORODIBROMOMETHANE	0.000		0	N.D.	
59) 1,2-DIBROMOETHANE	0.000		0	N.D.	
60) CHLOROBENZENE	0.000		0	N.D.	
61) 1,1,1,2-TETRACHLOROETHANE	0.000		0	N.D.	
62) ETHYLBENZENE	0.000		0	N.D.	
63) M&P-XYLENE	6.624	106	932	N.D.	
64) O-XYLENE	0.000		0	N.D.	
65) STYRENE	0.000		0	N.D.	
66) Bromoform	0.000		0	N.D.	
67) Isopropylbenzene	0.000		0	N.D.	
69) Bromobenzene	7.373	77	2392	N.D.	
70) 1,1,2,2-TETRACHLOROETHANE	0.000		0	N.D.	
71) 1,2,3-TRICHLOROPROPANE	0.000		0	N.D.	
72) TRANS-1,4-DICHLORO-2-B...	0.000		0	N.D.	
73) n-Propylbenzene	7.447	91	1016	N.D.	
74) 4-ETHYLTOLUENE	7.525	105	1072	N.D.	
75) 2-Chlorotoluene	0.000		0	N.D.	
76) 4-Chlorotoluene	0.000		0	N.D.	
77) 1,3,5-Trimethylbenzene	0.000		0	N.D.	
78) tert-Butylbenzene	0.000		0	N.D.	
79) 1,2,4-Trimethylbenzene	7.888	105	803	N.D.	
80) sec-Butylbenzene	0.000		0	N.D.	
81) 1,3-DICHLOROBENZENE	0.000		0	N.D.	
82) p-Isopropyltoluene	0.000		0	N.D.	
83) DICYCLOPENTADIENE	0.000		0	N.D.	
85) 1,4-DICHLOROBENZENE	8.222	146	689	N.D.	
86) 1,2,3-TRIMETHYLBENZENE	8.229	105	689	N.D.	
87) 1,2-DICHLOROBENZENE	0.000		0	N.D.	
88) n-Butylbenzene	8.402	91	699	N.D.	
89) 1,2-Dibromo-3-chloropr...	0.000		0	N.D.	
90) 1,2,4-Trichlorobenzene	0.000		0	N.D.	
91) HEXACHLORO-1,3-BUTADIENE	0.000		0	N.D.	
92) Naphthalene	10.033	128	1757	N.D.	
93) 1,2,3-Trichlorobenzene	0.000		0	N.D.	
94) 1-Methylnaphthalene	10.901	142	2076	N.D.	
95) 2-Methylnaphthalene	11.029	142	1283	N.D.	

Quantitation Report (QT Reviewed)

Data Path : C:\MSDchem\1\data\112314a\
Data File : 1123 02a.D
Acq On : 23 Nov 2014 11:57 pm
Operator : 644
Sample : INSTBLK VMS
Misc : water IS/SURR14K01013
ALS Vial : 2 Sample Multiplier: 1
InstName : VOCMS20

Quant Time: Nov 24 14:40:17 2014
Quant Method : C:\MSDchem\1\methods\V820K23N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS20
QLast Update : Mon Nov 24 14:32:41 2014
Response via : Initial Calibration

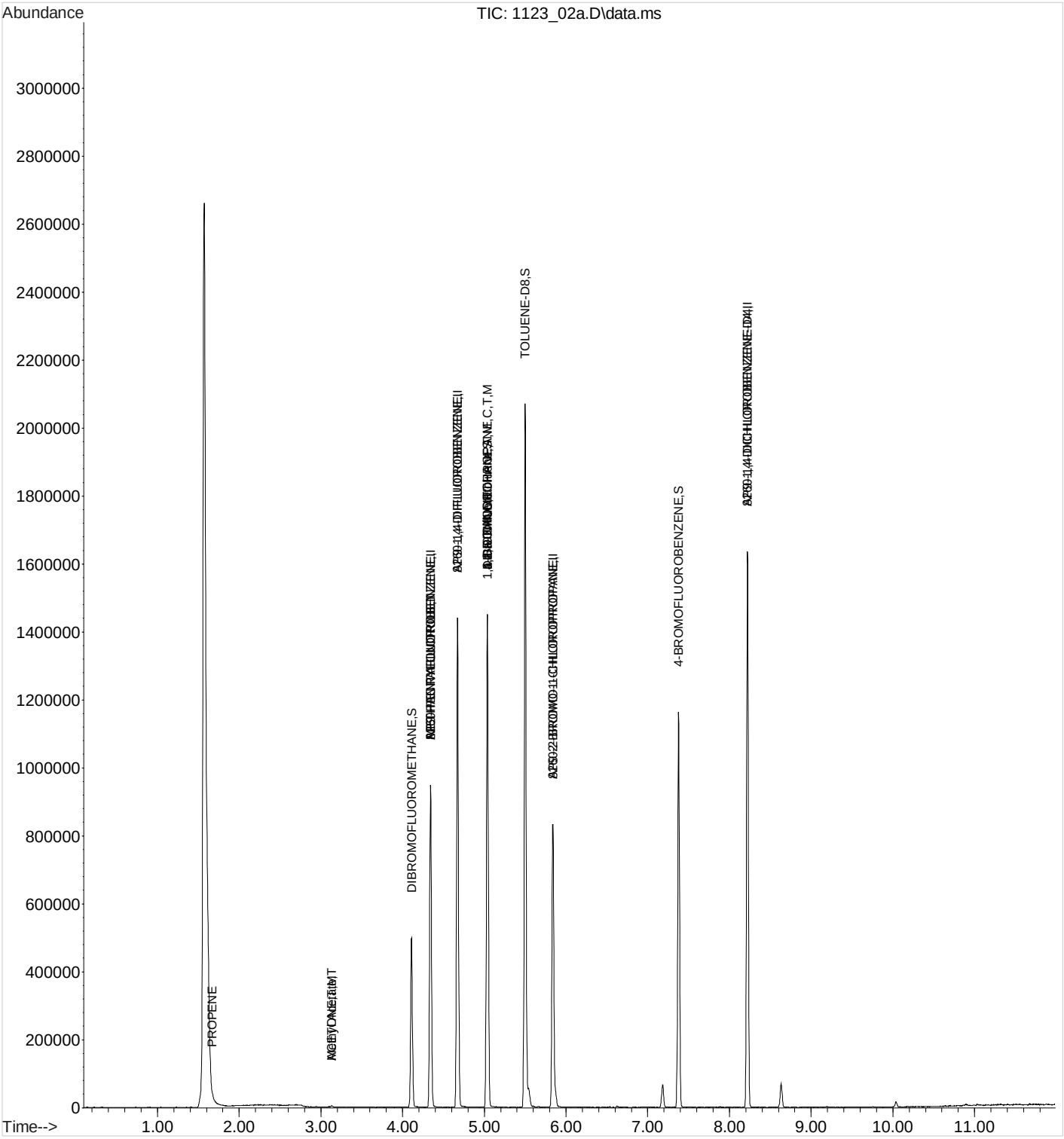
	Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
97)	ETHANOL	0.000		0	N.D.	
98)	Bromoethane	0.000		0	N.D.	
99)	2-PROPANOL	0.000		0	N.D.	
100)	Methyl Acetate	3.129	43	4140	0.6714794 ppb #	56
101)	ACETONITRILE	0.000		0	N.D.	
102)	ALLYL CHLORIDE	0.000		0	N.D.	
103)	tert-BUTYL ALCOHOL	0.000		0	N.D.	
104)	chloroprene	0.000		0	N.D.	
105)	ETHYL TERT-BUTYL ETHER	0.000		0	N.D.	
106)	PROPIONITRILE	0.000		0	N.D.	
107)	Ethyl Acetate	0.000		0	N.D.	
108)	METHACRYLONITRILE	4.341	67	1481	0.4160191 ppb #	1
109)	Cyclohexane	0.000		0	N.D.	
110)	tert-butyl formate	0.000		0	N.D.	
111)	ISOBUTANOL	0.000		0	N.D.	
112)	t-Amyl Alcohol	0.000		0	N.D.	
113)	TERT-AMYL METHYL ETHER	4.341	73	503	N.D.	
115)	N-BUTANOL	0.000		0	N.D.	
116)	Methyl Cyclohexane	4.669	83	13999	N.D.	
117)	2-nitropropane	0.000		0	N.D.	
118)	METHYL METHACRYLATE	0.000		0	N.D.	
119)	1,4-DIOXANE	5.039	88	5297	66.2413421 ppb #	28
120)	n-octane	0.000		0	N.D.	
121)	3,3-DIMETHYL-1-BUTANOL	0.000		0	N.D.	
123)	ETHYL METHACRYLATE	0.000		0	N.D.	
124)	CIS-1,4-DICHLORO-2-BUTENE	0.000		0	N.D.	
125)	Cyclohexanone	0.000		0	N.D.	
126)	PENTACHLOROETHANE	0.000		0	N.D.	
127)	Hexachloroethane	0.000		0	N.D.	

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\MSDchem\1\data\112314a\
Data File : 1123 02a.D
Acq On : 23 Nov 2014 11:57 pm
Operator : 644
Sample : INSTBLK VMS
Misc : water IS/SURR14K01013
ALS Vial : 2 Sample Multiplier: 1
InstName : VOCMS20

Quant Time: Nov 24 14:40:17 2014
Quant Method : C:\MSDchem\1\methods\V820K23N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS20
QLast Update : Mon Nov 24 14:32:41 2014
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\MSDchem\1\data\112314a\
Data File : 1123 02a.D
Acq On : 23 Nov 2014 11:57 pm
Operator : 644
Sample : INSTBLK VMS
Misc : water IS/SURR14K01013
ALS Vial : 2 Sample Multiplier: 1
InstName : VOCMS20

Quant Time: Nov 24 14:40:17 2014
Quant Method : C:\MSDchem\1\methods\V820K23N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS20
QLast Update : Mon Nov 24 14:32:41 2014
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 8260-PENTAFLUOROBENZENE	4.341	168	463370	40.0000000 ppb	0.00
41) 8260-1,4-DIFLUOROBENZENE	4.673	114	893573	40.0000000 ppb	0.00
53) 8260-2-BROMO-1-CHLOROP...	5.840	79	148559	40.0000000 ppb	0.00
84) 8260-1,4-DICHLOROBENZE...	8.219	152	359152	40.0000000 ppb	0.00
96) AP9-PENTAFLUOROBENZENE	4.341	168	463370	40.0000000 ppb	0.00
114) AP9-1,4-DIFLUOROBENZENE	4.673	114	893573	40.0000000 ppb	0.00
122) AP9-2-BROMO-1-CHLOROPR...	5.840	79	148559	40.0000000 ppb	# 0.00
128) AP9-1,4-DICHLOROBENZEN...	8.219	152	359152	40.0000000 ppb	0.00
System Monitoring Compounds					
33) DIBROMOFLUOROMETHANE	4.110	111	256001	40.2994998 ppb	0.00
Spiked Amount 40.000	Range 78 - 121		Recovery = 100.75%		
46) a,a,a-Trifluorotoluene	5.036	146	477326	42.1815657 ppb	0.00
Spiked Amount 40.000	Range 85 - 114		Recovery = 105.45%		
50) TOLUENE-D8	5.499	98	1158879	40.9242894 ppb	0.00
Spiked Amount 40.000	Range 89 - 111		Recovery = 102.31%		
68) 4-BROMOFLUOROBENZENE	7.377	95	381677	39.1797332 ppb	0.00
Spiked Amount 40.000	Range 71 - 126		Recovery = 97.95%		
Target Compounds					Qvalue
2) TPH (GC/MS) LOW FRACTION	4.096	TIC -7769502		No Calib	
3) PROPENE	1.670	41	658	0.3072746 ppb #	53
4) DICHLORODIFLUOROMETHANE	0.000		0	N.D.	
5) CHLOROMETHANE	0.000		0	N.D.	
6) VINYL CHLORIDE	0.000		0	N.D.	
7) 1,3-BUTADIENE	0.000		0	N.D.	
8) BROMOMETHANE	0.000		0	N.D.	
9) CHLOROETHANE	0.000		0	N.D.	
10) TRICHLOROFLUOROMETHANE	0.000		0	N.D.	
11) DICHLOROFLUOROMETHANE	0.000		0	N.D.	
12) ETHYL ETHER	0.000		0	N.D.	
13) ACROLEIN	0.000		0	N.D.	
14) 1,1-DICHLOROETHENE	0.000		0	N.D.	
15) 1,1,2-TRICHLOROTRIFLUO...	0.000		0	N.D.	
16) ACETONE	3.129	43	4140	1.7465875 ppb	90
17) IODOMETHANE	0.000		0	N.D.	
18) CARBON DISULFIDE	2.782	76	676	N.D.	
19) METHYLENE CHLORIDE	0.000		0	N.D.	
20) ACRYLONITRILE	0.000		0	N.D.	
21) n-Hexane	0.000		0	N.D.	
22) TRANS-1,2-DICHLOROETHENE	0.000		0	N.D.	
23) METHYL TERT-BUTYL ETHER	0.000		0	N.D.	
24) 1,1-DICHLOROETHANE	0.000		0	N.D.	
25) VINYL ACETATE	0.000		0	N.D.	
26) DI-ISOPROPYL ETHER	0.000		0	N.D.	
27) 2,2-Dichloropropane	0.000		0	N.D.	
28) CIS-1,2-DICHLOROETHENE	0.000		0	N.D.	
29) 2-BUTANONE (MEK)	0.000		0	N.D.	
30) BROMOCHLOROMETHANE	0.000		0	N.D.	
31) TETRAHYDROFURAN	0.000		0	N.D.	
32) CHLOROFORM	0.000		0	N.D.	
34) 1,1,1-TRICHLOROETHANE	0.000		0	N.D.	
35) CARBON TETRACHLORIDE	0.000		0	N.D.	

Quantitation Report (QT Reviewed)

Data Path : C:\MSDchem\1\data\112314a\
Data File : 1123 02a.D
Acq On : 23 Nov 2014 11:57 pm
Operator : 644
Sample : INSTBLK VMS
Misc : water IS/SURR14K01013
ALS Vial : 2 Sample Multiplier: 1
InstName : VOCMS20

Quant Time: Nov 24 14:40:17 2014
Quant Method : C:\MSDchem\1\methods\V820K23N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS20
QLast Update : Mon Nov 24 14:32:41 2014
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
36) 1,1-Dichloropropene	0.000		0	N.D.	
37) 2,2,4-TRIMETHYLPENTANE	4.229	57	504	N.D.	
38) HEPTANE	4.348	43	595	N.D.	
39) BENZENE	4.345	78	1361	N.D.	
40) 1,2-DICHLOROETHANE	0.000		0	N.D.	
42) TRICHLOROETHENE	0.000		0	N.D.	
43) 1,2-DICHLOROPROPANE	5.036	62	9306	1.2352918 ppb #	22
44) DIBROMOMETHANE	5.036	93	1940	0.3970531 ppb #	1
45) BROMODICHLOROMETHANE	0.000		0	N.D.	
47) 2-CHLOROETHYL VINYL ETHER	0.000		0	N.D.	
48) CIS-1,3-DICHLOROPROPENE	0.000		0	N.D.	
49) 4-METHYL-2-PENTANONE (...	0.000		0	N.D.	
51) TOLUENE	5.534	91	5055	N.D.	
52) TRANS-1,3-DICHLOROPROPENE	0.000		0	N.D.	
54) 1,1,2-TRICHLOROETHANE	0.000		0	N.D.	
55) TETRACHLOROETHENE	0.000		0	N.D.	
56) 1,3-Dichloropropane	0.000		0	N.D.	
57) 2-HEXANONE	0.000		0	N.D.	
58) CHLORODIBROMOMETHANE	0.000		0	N.D.	
59) 1,2-DIBROMOETHANE	0.000		0	N.D.	
60) CHLOROBENZENE	0.000		0	N.D.	
61) 1,1,1,2-TETRACHLOROETHANE	0.000		0	N.D.	
62) ETHYLBENZENE	0.000		0	N.D.	
63) M&P-XYLENE	6.624	106	932	N.D.	
64) O-XYLENE	0.000		0	N.D.	
65) STYRENE	0.000		0	N.D.	
66) Bromoform	0.000		0	N.D.	
67) Isopropylbenzene	0.000		0	N.D.	
69) Bromobenzene	7.373	77	2392	N.D.	
70) 1,1,2,2-TETRACHLOROETHANE	0.000		0	N.D.	
71) 1,2,3-TRICHLOROPROPANE	0.000		0	N.D.	
72) TRANS-1,4-DICHLORO-2-B...	0.000		0	N.D.	
73) n-Propylbenzene	7.447	91	1016	N.D.	
74) 4-ETHYLTOLUENE	7.525	105	1072	N.D.	
75) 2-Chlorotoluene	0.000		0	N.D.	
76) 4-Chlorotoluene	0.000		0	N.D.	
77) 1,3,5-Trimethylbenzene	0.000		0	N.D.	
78) tert-Butylbenzene	0.000		0	N.D.	
79) 1,2,4-Trimethylbenzene	7.888	105	803	N.D.	
80) sec-Butylbenzene	0.000		0	N.D.	
81) 1,3-DICHLOROBENZENE	0.000		0	N.D.	
82) p-Isopropyltoluene	0.000		0	N.D.	
83) DICYCLOPENTADIENE	0.000		0	N.D.	
85) 1,4-DICHLOROBENZENE	8.222	146	689	N.D.	
86) 1,2,3-TRIMETHYLBENZENE	8.229	105	689	N.D.	
87) 1,2-DICHLOROBENZENE	0.000		0	N.D.	
88) n-Butylbenzene	8.402	91	699	N.D.	
89) 1,2-Dibromo-3-chloropr...	0.000		0	N.D.	
90) 1,2,4-Trichlorobenzene	0.000		0	N.D.	
91) HEXACHLORO-1,3-BUTADIENE	0.000		0	N.D.	
92) Naphthalene	10.033	128	1757	N.D.	
93) 1,2,3-Trichlorobenzene	0.000		0	N.D.	
94) 1-Methylnaphthalene	10.901	142	2076	N.D.	
95) 2-Methylnaphthalene	11.029	142	1283	N.D.	

Quantitation Report (QT Reviewed)

Data Path : C:\MSDchem\1\data\112314a\
Data File : 1123 02a.D
Acq On : 23 Nov 2014 11:57 pm
Operator : 644
Sample : INSTBLK VMS
Misc : water IS/SURR14K01013
ALS Vial : 2 Sample Multiplier: 1
InstName : VOCMS20

Quant Time: Nov 24 14:40:17 2014
Quant Method : C:\MSDchem\1\methods\V820K23N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS20
QLast Update : Mon Nov 24 14:32:41 2014
Response via : Initial Calibration

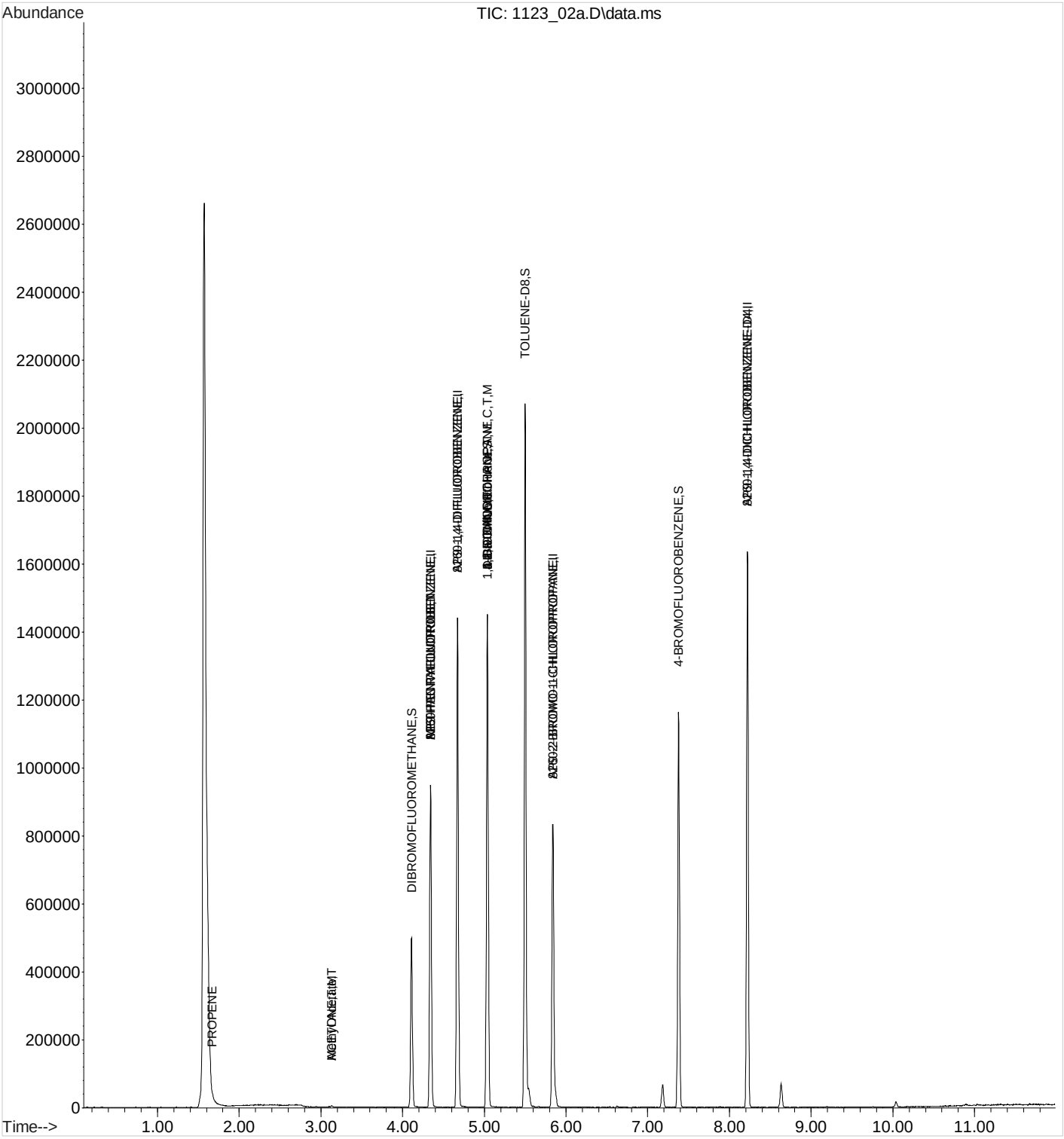
	Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
97)	ETHANOL	0.000		0	N.D.	
98)	Bromoethane	0.000		0	N.D.	
99)	2-PROPANOL	0.000		0	N.D.	
100)	Methyl Acetate	3.129	43	4140	0.6714794 ppb #	56
101)	ACETONITRILE	0.000		0	N.D.	
102)	ALLYL CHLORIDE	0.000		0	N.D.	
103)	tert-BUTYL ALCOHOL	0.000		0	N.D.	
104)	chloroprene	0.000		0	N.D.	
105)	ETHYL TERT-BUTYL ETHER	0.000		0	N.D.	
106)	PROPIONITRILE	0.000		0	N.D.	
107)	Ethyl Acetate	0.000		0	N.D.	
108)	METHACRYLONITRILE	4.341	67	1481	0.4160191 ppb #	1
109)	Cyclohexane	0.000		0	N.D.	
110)	tert-butyl formate	0.000		0	N.D.	
111)	ISOBUTANOL	0.000		0	N.D.	
112)	t-Amyl Alcohol	0.000		0	N.D.	
113)	TERT-AMYL METHYL ETHER	4.341	73	503	N.D.	
115)	N-BUTANOL	0.000		0	N.D.	
116)	Methyl Cyclohexane	4.669	83	13999	N.D.	
117)	2-nitropropane	0.000		0	N.D.	
118)	METHYL METHACRYLATE	0.000		0	N.D.	
119)	1,4-DIOXANE	5.039	88	5297	66.2413421 ppb #	28
120)	n-octane	0.000		0	N.D.	
121)	3,3-DIMETHYL-1-BUTANOL	0.000		0	N.D.	
123)	ETHYL METHACRYLATE	0.000		0	N.D.	
124)	CIS-1,4-DICHLORO-2-BUTENE	0.000		0	N.D.	
125)	Cyclohexanone	0.000		0	N.D.	
126)	PENTACHLOROETHANE	0.000		0	N.D.	
127)	Hexachloroethane	0.000		0	N.D.	

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\MSDchem\1\data\112314a\
Data File : 1123 02a.D
Acq On : 23 Nov 2014 11:57 pm
Operator : 644
Sample : INSTBLK VMS
Misc : water IS/SURR14K01013
ALS Vial : 2 Sample Multiplier: 1
InstName : VOCMS20

Quant Time: Nov 24 14:40:17 2014
Quant Method : C:\MSDchem\1\methods\V820K23N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS20
QLast Update : Mon Nov 24 14:32:41 2014
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\MSDchem\1\data\112314a\
Data File : 1123 05B.D
Acq On : 24 Nov 2014 12:53 am
Operator : 644
Sample : RL VMS 1 ppb 14K20062
Misc : water IS/SURR14K01013
ALS Vial : 5 Sample Multiplier: 1
InstName : VOCMS20

Quant Time: Nov 24 14:34:33 2014
Quant Method : C:\MSDchem\1\methods\V820K23N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS20
QLast Update : Mon Nov 24 14:32:41 2014
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 8260-PENTAFLUOROBENZENE	4.341	168	471207	40.0000000 ppb	0.00
41) 8260-1,4-DIFLUOROBENZENE	4.673	114	904890	40.0000000 ppb	0.00
53) 8260-2-BROMO-1-CHLOROP...	5.840	79	151381	40.0000000 ppb	0.00
84) 8260-1,4-DICHLOROBENZE...	8.219	152	377783	40.0000000 ppb	0.00
96) AP9-PENTAFLUOROBENZENE	4.341	168	471207	40.0000000 ppb	0.00
114) AP9-1,4-DIFLUOROBENZENE	4.673	114	904890	40.0000000 ppb	0.00
122) AP9-2-BROMO-1-CHLOROPR...	5.840	79	151381	40.0000000 ppb	# 0.00
128) AP9-1,4-DICHLOROBENZEN...	8.219	152	377783	40.0000000 ppb	0.00
System Monitoring Compounds					
33) DIBROMOFLUOROMETHANE	4.107	111	268935	41.6314463 ppb	0.00
Spiked Amount 40.000	Range 78 - 121		Recovery = 104.08%		
46) a,a,a-Trifluorotoluene	5.036	146	490360	42.7914389 ppb	0.00
Spiked Amount 40.000	Range 85 - 114		Recovery = 106.98%		
50) TOLUENE-D8	5.499	98	1199612	41.8329127 ppb	0.00
Spiked Amount 40.000	Range 89 - 111		Recovery = 104.58%		
68) 4-BROMOFLUOROBENZENE	7.377	95	405686	40.8679734 ppb	0.00
Spiked Amount 40.000	Range 71 - 126		Recovery = 102.17%		
Target Compounds					Qvalue
2) TPH (GC/MS) LOW FRACTION	4.096	TIC -7835611		No Calib	
3) PROPENE	1.673	41	3389	1.5562826 ppb	97
4) DICHLORODIFLUOROMETHANE	1.721	85	7504	0.9661406 ppb	96
5) CHLOROMETHANE	1.885	50	13410	1.0315892 ppb	97
6) VINYL CHLORIDE	1.956	62	11402	1.0460579 ppb #	97
7) 1,3-BUTADIENE	1.972	39	9345	1.0920020 ppb	83
8) BROMOMETHANE	2.223	94	6915	1.0104923 ppb	94
9) CHLOROETHANE	2.316	66	2115	1.0897379 ppb	83
10) TRICHLOROFLUOROMETHANE	2.403	101	9904	0.9820670 ppb #	98
11) DICHLOROFLUOROMETHANE	2.444	67	15406	1.0517798 ppb	97
12) ETHYL ETHER	2.595	59	9855	1.1932772 ppb	90
13) ACROLEIN	2.959	56	6517	4.9228369 ppb	97
14) 1,1-DICHLOROETHENE	2.740	61	13096	1.0568792 ppb	100
15) 1,1,2-TRICHLOROTRIFLUO...	2.766	101	6886	1.0107584 ppb	97
16) ACETONE	3.129	43	15711	6.5179349 ppb	98
17) IODOMETHANE	2.846	142	64330	5.3178723 ppb	99
18) CARBON DISULFIDE	2.772	76	31541	1.0628264 ppb #	81
19) METHYLENE CHLORIDE	3.100	84	11228	1.0998257 ppb	95
20) ACRYLONITRILE	3.592	53	16483	5.0954675 ppb	95
21) n-Hexane	3.216	56	9665	1.0558345 ppb	95
22) TRANS-1,2-DICHLOROETHENE	3.197	96	9933	1.0941596 ppb	90
23) METHYL TERT-BUTYL ETHER	3.242	73	25694	1.0331778 ppb #	100
24) 1,1-DICHLOROETHANE	3.557	63	18418	1.0386651 ppb	97
25) VINYL ACETATE	3.669	43	77203	5.4984240 ppb	98
26) DI-ISOPROPYL ETHER	3.444	45	36255	1.0017940 ppb	96
27) 2,2-Dichloropropane	3.923	77	8706	1.0109894 ppb	97
28) CIS-1,2-DICHLOROETHENE	3.859	96	10241	1.0276830 ppb	97
29) 2-BUTANONE (MEK)	4.171	72	4949	5.1333936 ppb	91
30) BROMOCHLOROMETHANE	3.978	130	5686	1.0474740 ppb	96
31) TETRAHYDROFURAN	4.103	42	3335	1.1526104 ppb #	84
32) CHLOROFORM	4.001	83	16932	1.0543043 ppb	97
34) 1,1,1-TRICHLOROETHANE	4.132	97	11999	1.0678356 ppb	98
35) CARBON TETRACHLORIDE	4.094	119	9203	1.0218382 ppb	99

Quantitation Report (QT Reviewed)

Data Path : C:\MSDchem\1\data\112314a\
Data File : 1123 05B.D
Acq On : 24 Nov 2014 12:53 am
Operator : 644
Sample : RL VMS 1 ppb 14K20062
Misc : water IS/SURR14K01013
ALS Vial : 5 Sample Multiplier: 1
InstName : VOCMS20

Quant Time: Nov 24 14:34:33 2014
Quant Method : C:\MSDchem\1\methods\V820K23N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS20
QLast Update : Mon Nov 24 14:32:41 2014
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units		Dev(Min)
36) 1,1-Dichloropropene	4.197	75	11268	0.9312372 ppb		96
37) 2,2,4-TRIMETHYLPENTANE	4.229	57	35307	0.9524746 ppb		93
38) HEPTANE	4.267	43	16381	0.9863421 ppb	#	94
39) BENZENE	4.345	78	43508	1.0660184 ppb	#	77
40) 1,2-DICHLOROETHANE	4.460	62	12433	1.0818630 ppb		99
42) TRICHLOROETHENE	4.666	130	8876	1.0576695 ppb		95
43) 1,2-DICHLOROPROPANE	4.984	62	8329	1.0917762 ppb		93
44) DIBROMOMETHANE	4.930	93	5153	1.0414568 ppb		97
45) BROMODICHLOROMETHANE	5.007	83	12863	1.0160303 ppb	#	96
47) 2-CHLOROETHYL VINYL ETHER	5.319	63	12666	3.5638980 ppb		93
48) CIS-1,3-DICHLOROPROPENE	5.386	75	15379	0.9811644 ppb		97
49) 4-METHYL-2-PENTANONE (...	5.750	58	15082	4.7687987 ppb		99
51) TOLUENE	5.531	91	46356	1.0395779 ppb		100
52) TRANS-1,3-DICHLOROPROPENE	5.788	110	3587	1.1385822 ppb		89
54) 1,1,2-TRICHLOROETHANE	5.898	97	7653	1.0181628 ppb		94
55) TETRACHLOROETHENE	5.782	164	5807	1.0250038 ppb		98
56) 1,3-Dichloropropane	6.084	76	15671	1.0465840 ppb		97
57) 2-HEXANONE	6.290	58	12273	4.2026761 ppb		83
58) CHLORODIBROMOMETHANE	6.026	129	6949	0.9535439 ppb		96
59) 1,2-DIBROMOETHANE	6.200	107	7028	1.0061936 ppb		98
60) CHLOROBENZENE	6.537	112	23512	0.9499373 ppb		95
61) 1,1,1,2-TETRACHLOROETHANE	6.570	133	7283	0.9710396 ppb	#	95
62) ETHYLBENZENE	6.531	106	11857	0.9298056 ppb		95
63) M&P-XYLENE	6.624	106	30231	1.8615914 ppb		99
64) O-XYLENE	6.933	106	13434	0.8739225 ppb		86
65) STYRENE	6.972	104	18956	0.7524084 ppb		98
66) Bromoform	7.017	173	4225	1.0847181 ppb	#	85
67) Isopropylbenzene	7.148	105	36190	0.9350574 ppb		99
69) Bromobenzene	7.467	77	21261	1.0113232 ppb		98
70) 1,1,2,2-TETRACHLOROETHANE	7.505	83	10331	1.0693955 ppb		98
71) 1,2,3-TRICHLOROPROPANE	7.627	110	2932	1.0866400 ppb		96
72) TRANS-1,4-DICHLORO-2-B...	7.644	53	2599	0.9178855 ppb	#	78
73) n-Propylbenzene	7.451	91	48570	0.9379310 ppb	#	93
74) 4-ETHYLTOLUENE	7.528	105	40691	0.9870649 ppb		99
75) 2-Chlorotoluene	7.589	126	9425	0.9767695 ppb		97
76) 4-Chlorotoluene	7.711	91	31070	0.9655259 ppb		99
77) 1,3,5-Trimethylbenzene	7.586	105	32434	0.9363913 ppb		99
78) tert-Butylbenzene	7.833	119	24965	0.9231364 ppb		97
79) 1,2,4-Trimethylbenzene	7.888	105	30871	0.8855050 ppb		92
80) sec-Butylbenzene	7.968	105	39514	0.9031658 ppb		98
81) 1,3-DICHLOROBENZENE	8.164	146	18510	1.0122723 ppb		97
82) p-Isopropyltoluene	8.071	119	29974	0.8670048 ppb		99
83) DICYCLOPENTADIENE	8.078	66	39863	0.8984347 ppb		99
85) 1,4-DICHLOROBENZENE	8.232	146	20256	1.0428833 ppb	#	1
86) 1,2,3-TRIMETHYLBENZENE	8.232	105	38217	0.9972043 ppb		100
87) 1,2-DICHLOROBENZENE	8.566	146	16679	0.9673484 ppb		95
88) n-Butylbenzene	8.402	91	32989	0.9054609 ppb		98
89) 1,2-Dibromo-3-chloropr...	9.213	157	1433	1.0188973 ppb	#	71
90) 1,2,4-Trichlorobenzene	9.753	180	9714	0.9668489 ppb		97
91) HEXACHLORO-1,3-BUTADIENE	9.708	225	5147	0.9850180 ppb		92
92) Naphthalene	10.033	128	22662	0.8892961 ppb		97
93) 1,2,3-Trichlorobenzene	10.184	180	8925	0.9739162 ppb		97
94) 1-Methylnaphthalene	10.901	142	11761	0.8966042 ppb		99
95) 2-Methylnaphthalene	11.032	142	9922	0.8541041 ppb		89

Quantitation Report (QT Reviewed)

Data Path : C:\MSDchem\1\data\112314a\
Data File : 1123 05B.D
Acq On : 24 Nov 2014 12:53 am
Operator : 644
Sample : RL VMS 1 ppb 14K20062
Misc : water IS/SURR14K01013
ALS Vial : 5 Sample Multiplier: 1
InstName : VOCMS20

Quant Time: Nov 24 14:34:33 2014
Quant Method : C:\MSDchem\1\methods\V820K23N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS20
QLast Update : Mon Nov 24 14:32:41 2014
Response via : Initial Calibration

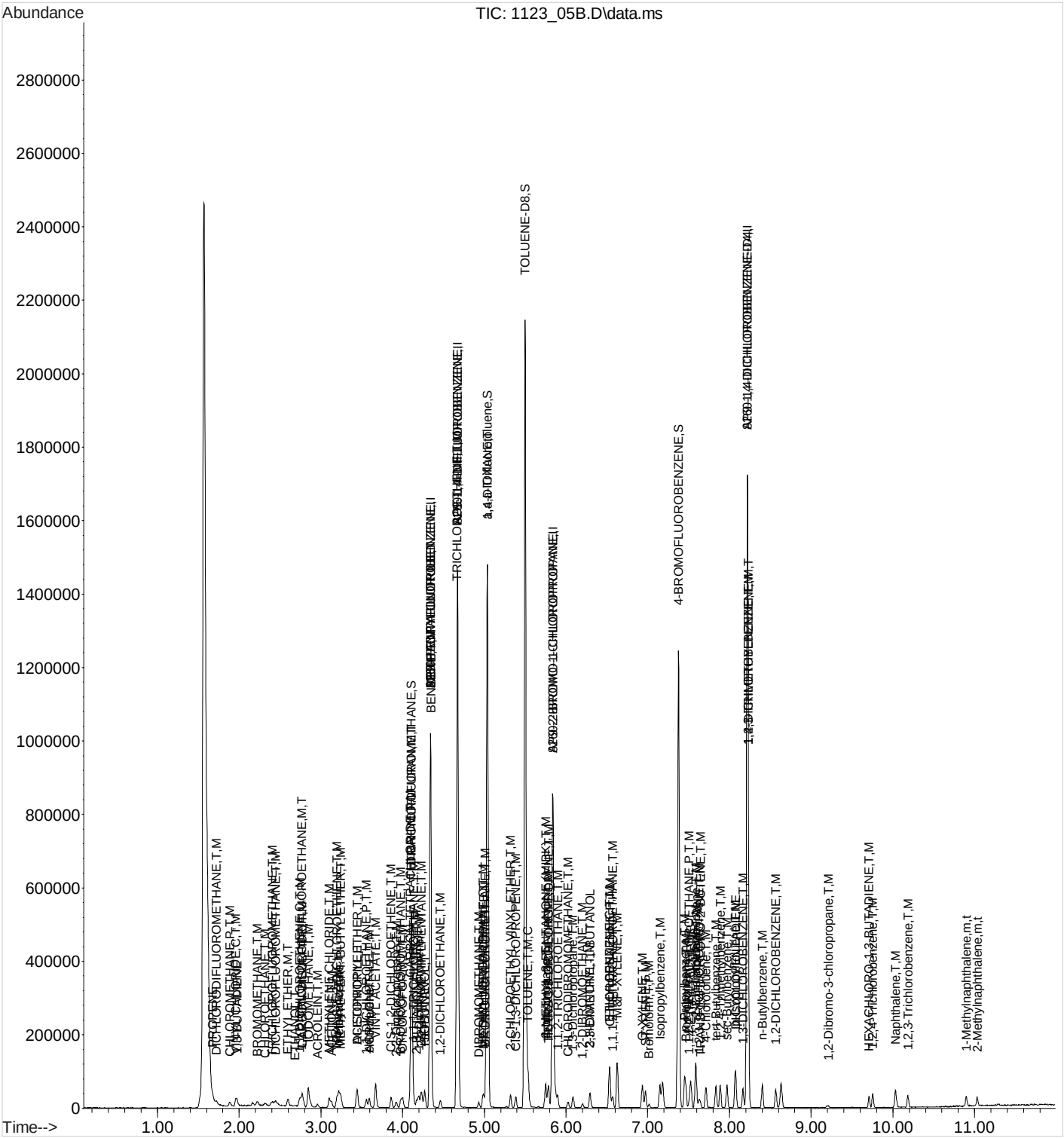
	Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
97)	ETHANOL	2.682	45	552	6.1941850 ppb #	34
98)	Bromoethane	0.000		0	N.D.	
99)	2-PROPANOL	0.000		0	N.D.	
100)	Methyl Acetate	3.222	43	17171	2.7386980 ppb #	68
101)	ACETONITRILE	3.444	41	6604	5.3181067 ppb #	30
102)	ALLYL CHLORIDE	0.000		0	N.D.	
103)	tert-BUTYL ALCOHOL	0.000		0	N.D.	
104)	chloroprene	3.592	53	16483	2.1317501 ppb #	25
105)	ETHYL TERT-BUTYL ETHER	0.000		0	N.D.	
106)	PROPIONITRILE	0.000		0	N.D.	
107)	Ethyl Acetate	4.100	43	1009	N.D.	
108)	METHACRYLONITRILE	4.341	67	1399	0.3864489 ppb #	1
109)	Cyclohexane	0.000		0	N.D.	
110)	tert-butyl formate	0.000		0	N.D.	
111)	ISOBUTANOL	4.267	41	9959	22.0342452 ppb #	1
112)	t-Amyl Alcohol	0.000		0	N.D.	
113)	TERT-AMYL METHYL ETHER	4.341	73	1231	N.D.	
115)	N-BUTANOL	0.000		0	N.D.	
116)	Methyl Cyclohexane	4.669	83	13807	Below Cal #	37
117)	2-nitropropane	5.750	43	39351	19.6074008 ppb #	40
118)	METHYL METHACRYLATE	4.988	41	6772	0.8402632 ppb #	16
119)	1,4-DIOXANE	5.036	88	5657	69.8585518 ppb #	26
120)	n-octane	0.000		0	N.D.	
121)	3,3-DIMETHYL-1-BUTANOL	6.293	57	4616	7.4181305 ppb #	40
123)	ETHYL METHACRYLATE	0.000		0	N.D.	
124)	CIS-1,4-DICHLORO-2-BUTENE	0.000		0	N.D.	
125)	Cyclohexanone	7.836	55	512	No Calib #	
126)	PENTACHLOROETHANE	7.885	117	1381	N.D.	
127)	Hexachloroethane	8.399	117	868	N.D.	

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\MSDchem\1\data\112314a\
Data File : 1123 05B.D
Acq On : 24 Nov 2014 12:53 am
Operator : 644
Sample : RL VMS 1 ppb 14K20062
Misc : water IS/SURR14K01013
ALS Vial : 5 Sample Multiplier: 1
InstName : VOCMS20

Quant Time: Nov 24 14:34:33 2014
Quant Method : C:\MSDchem\1\methods\V820K23N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS20
QLast Update : Mon Nov 24 14:32:41 2014
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\MSDchem\1\data\112314a\
Data File : 1123 17B.D
Acq On : 24 Nov 2014 9:39 am
Operator : 644
Sample : RL VMS 1a ppb 14I02840
Misc : water IS/SURR14K01013
ALS Vial : 17 Sample Multiplier: 1
InstName : VOCMS20

Quant Time: Nov 24 14:36:08 2014
Quant Method : C:\MSDchem\1\methods\V820K23N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS20
QLast Update : Mon Nov 24 14:32:41 2014
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 8260-PENTAFLUOROBENZENE	4.341	168	475450	40.0000000 ppb	0.00
41) 8260-1,4-DIFLUOROBENZENE	4.673	114	904660	40.0000000 ppb	0.00
53) 8260-2-BROMO-1-CHLOROP...	5.840	79	147182	40.0000000 ppb	0.00
84) 8260-1,4-DICHLOROBENZE...	8.219	152	367018	40.0000000 ppb	0.00
96) AP9-PENTAFLUOROBENZENE	4.341	168	475450	40.0000000 ppb	0.00
114) AP9-1,4-DIFLUOROBENZENE	4.673	114	904660	40.0000000 ppb	0.00
122) AP9-2-BROMO-1-CHLOROPR...	5.840	79	147182	40.0000000 ppb	# 0.00
128) AP9-1,4-DICHLOROBENZEN...	8.219	152	367018	40.0000000 ppb	0.00
System Monitoring Compounds					
33) DIBROMOFLUOROMETHANE	4.107	111	258738	39.6954995 ppb	0.00
Spiked Amount 40.000	Range 78 - 121		Recovery = 99.24%		
46) a,a,a-Trifluorotoluene	5.036	146	476107	41.5582089 ppb	0.00
Spiked Amount 40.000	Range 85 - 114		Recovery = 103.90%		
50) TOLUENE-D8	5.499	98	1145440	39.9539801 ppb	0.00
Spiked Amount 40.000	Range 89 - 111		Recovery = 99.88%		
68) 4-BROMOFLUOROBENZENE	7.377	95	397455	41.1810785 ppb	0.00
Spiked Amount 40.000	Range 71 - 126		Recovery = 102.95%		
Target Compounds					Qvalue
2) TPH (GC/MS) LOW FRACTION	4.096	TIC -7471467		No Calib	
3) PROPENE	1.669	41	1169	0.5320327 ppb #	54
4) DICHLORODIFLUOROMETHANE	0.000		0	N.D.	
5) CHLOROMETHANE	1.898	50	2230	N.D.	
6) VINYL CHLORIDE	0.000		0	N.D.	
7) 1,3-BUTADIENE	0.000		0	N.D.	
8) BROMOMETHANE	0.000		0	N.D.	
9) CHLOROETHANE	0.000		0	N.D.	
10) TRICHLOROFLUOROMETHANE	0.000		0	N.D.	
11) DICHLOROFLUOROMETHANE	0.000		0	N.D.	
12) ETHYL ETHER	0.000		0	N.D.	
13) ACROLEIN	0.000		0	N.D.	
14) 1,1-DICHLOROETHENE	0.000		0	N.D.	
15) 1,1,2-TRICHLOROTRIFLUO...	0.000		0	N.D.	
16) ACETONE	3.126	43	5931	2.4386024 ppb	91
17) IODOMETHANE	0.000		0	N.D.	
18) CARBON DISULFIDE	2.772	76	1853	N.D.	
19) METHYLENE CHLORIDE	3.097	84	1012	N.D.	
20) ACRYLONITRILE	3.592	53	1525	0.4672233 ppb #	79
21) n-Hexane	0.000		0	N.D.	
22) TRANS-1,2-DICHLOROETHENE	0.000		0	N.D.	
23) METHYL TERT-BUTYL ETHER	0.000		0	N.D.	
24) 1,1-DICHLOROETHANE	0.000		0	N.D.	
25) VINYL ACETATE	3.650	43	2175	N.D.	
26) DI-ISOPROPYL ETHER	0.000		0	N.D.	
27) 2,2-Dichloropropane	0.000		0	N.D.	
28) CIS-1,2-DICHLOROETHENE	0.000		0	N.D.	
29) 2-BUTANONE (MEK)	0.000		0	N.D.	
30) BROMOCHLOROMETHANE	0.000		0	N.D.	
31) TETRAHYDROFURAN	4.103	42	1325	0.4538470 ppb #	79
32) CHLOROFORM	3.978	83	524	N.D.	
34) 1,1,1-TRICHLOROETHANE	0.000		0	N.D.	
35) CARBON TETRACHLORIDE	0.000		0	N.D.	

Quantitation Report (QT Reviewed)

Data Path : C:\MSDchem\1\data\112314a\
Data File : 1123 17B.D
Acq On : 24 Nov 2014 9:39 am
Operator : 644
Sample : RL VMS 1a ppb 14I02840
Misc : water IS/SURR14K01013
ALS Vial : 17 Sample Multiplier: 1
InstName : VOCMS20

Quant Time: Nov 24 14:36:08 2014
Quant Method : C:\MSDchem\1\methods\V820K23N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS20
QLast Update : Mon Nov 24 14:32:41 2014
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
36) 1,1-Dichloropropene	0.000		0	N.D.	
37) 2,2,4-TRIMETHYLPENTANE	4.248	57	36819	0.9843996 ppb #	1
38) HEPTANE	4.248	43	8449	0.5041960 ppb #	23
39) BENZENE	4.348	78	2500	N.D.	
40) 1,2-DICHLOROETHANE	4.364	62	5004	0.4315395 ppb #	72
42) TRICHLOROETHENE	4.666	130	841	N.D.	
43) 1,2-DICHLOROPROPANE	5.036	62	9670	1.2678785 ppb #	26
44) DIBROMOMETHANE	0.000		0	N.D.	
45) BROMODICHLOROMETHANE	0.000		0	N.D.	
47) 2-CHLOROETHYL VINYL ETHER	0.000		0	N.D.	
48) CIS-1,3-DICHLOROPROPENE	0.000		0	N.D.	
49) 4-METHYL-2-PENTANONE (...	5.846	58	1648	0.5212159 ppb #	63
51) TOLUENE	5.534	91	5970	N.D.	
52) TRANS-1,3-DICHLOROPROPENE	0.000		0	N.D.	
54) 1,1,2-TRICHLOROETHANE	0.000		0	N.D.	
55) TETRACHLOROETHENE	5.782	164	1317	N.D.	
56) 1,3-Dichloropropane	6.084	76	1089	N.D.	
57) 2-HEXANONE	6.293	58	910	0.3205038 ppb #	61
58) CHLORODIBROMOMETHANE	0.000		0	N.D.	
59) 1,2-DIBROMOETHANE	0.000		0	N.D.	
60) CHLOROBENZENE	6.534	112	1793	N.D.	
61) 1,1,1,2-TETRACHLOROETHANE	0.000		0	N.D.	
62) ETHYLBENZENE	6.528	106	630	N.D.	
63) M&P-XYLENE	6.624	106	2607	N.D.	
64) O-XYLENE	6.936	106	970	N.D.	
65) STYRENE	6.971	104	1590	N.D.	
66) Bromoform	0.000		0	N.D.	
67) Isopropylbenzene	7.148	105	1122	N.D.	
69) Bromobenzene	7.467	77	2211	N.D.	
70) 1,1,2,2-TETRACHLOROETHANE	7.679	83	1161	N.D.	
71) 1,2,3-TRICHLOROPROPANE	0.000		0	N.D.	
72) TRANS-1,4-DICHLORO-2-B...	7.640	53	662	N.D.	
73) n-Propylbenzene	7.451	91	4097	N.D.	
74) 4-ETHYLTOLUENE	7.524	105	4094	N.D.	
75) 2-Chlorotoluene	0.000		0	N.D.	
76) 4-Chlorotoluene	7.714	91	4106	N.D.	
77) 1,3,5-Trimethylbenzene	7.589	105	2137	N.D.	
78) tert-Butylbenzene	7.872	119	26096	0.9924872 ppb #	31
79) 1,2,4-Trimethylbenzene	7.885	105	3879	N.D.	
80) sec-Butylbenzene	7.971	105	2731	N.D.	
81) 1,3-DICHLOROBENZENE	8.168	146	2650	N.D.	
82) p-Isopropyltoluene	8.071	119	2391	N.D.	
83) DICYCLOPENTADIENE	8.078	66	2344	N.D.	
85) 1,4-DICHLOROBENZENE	8.232	146	3482	N.D.	
86) 1,2,3-TRIMETHYLBENZENE	8.232	105	3321	N.D.	
87) 1,2-DICHLOROBENZENE	8.566	146	1978	N.D.	
88) n-Butylbenzene	8.405	91	5660	N.D.	
89) 1,2-Dibromo-3-chloropr...	0.000		0	N.D.	
90) 1,2,4-Trichlorobenzene	9.753	180	2773	N.D.	
91) HEXACHLORO-1,3-BUTADIENE	0.000		0	N.D.	
92) Naphthalene	10.029	128	8449	0.3412782 ppb	99
93) 1,2,3-Trichlorobenzene	10.184	180	2664	N.D.	
94) 1-Methylnaphthalene	10.897	142	9680	0.7596035 ppb	97
95) 2-Methylnaphthalene	11.032	142	7723	0.6843097 ppb	95

Quantitation Report (QT Reviewed)

Data Path : C:\MSDchem\1\data\112314a\
Data File : 1123 17B.D
Acq On : 24 Nov 2014 9:39 am
Operator : 644
Sample : RL VMS 1a ppb 14I02840
Misc : water IS/SURR14K01013
ALS Vial : 17 Sample Multiplier: 1
InstName : VOCMS20

Quant Time: Nov 24 14:36:08 2014
Quant Method : C:\MSDchem\1\methods\V820K23N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS20
QLast Update : Mon Nov 24 14:32:41 2014
Response via : Initial Calibration

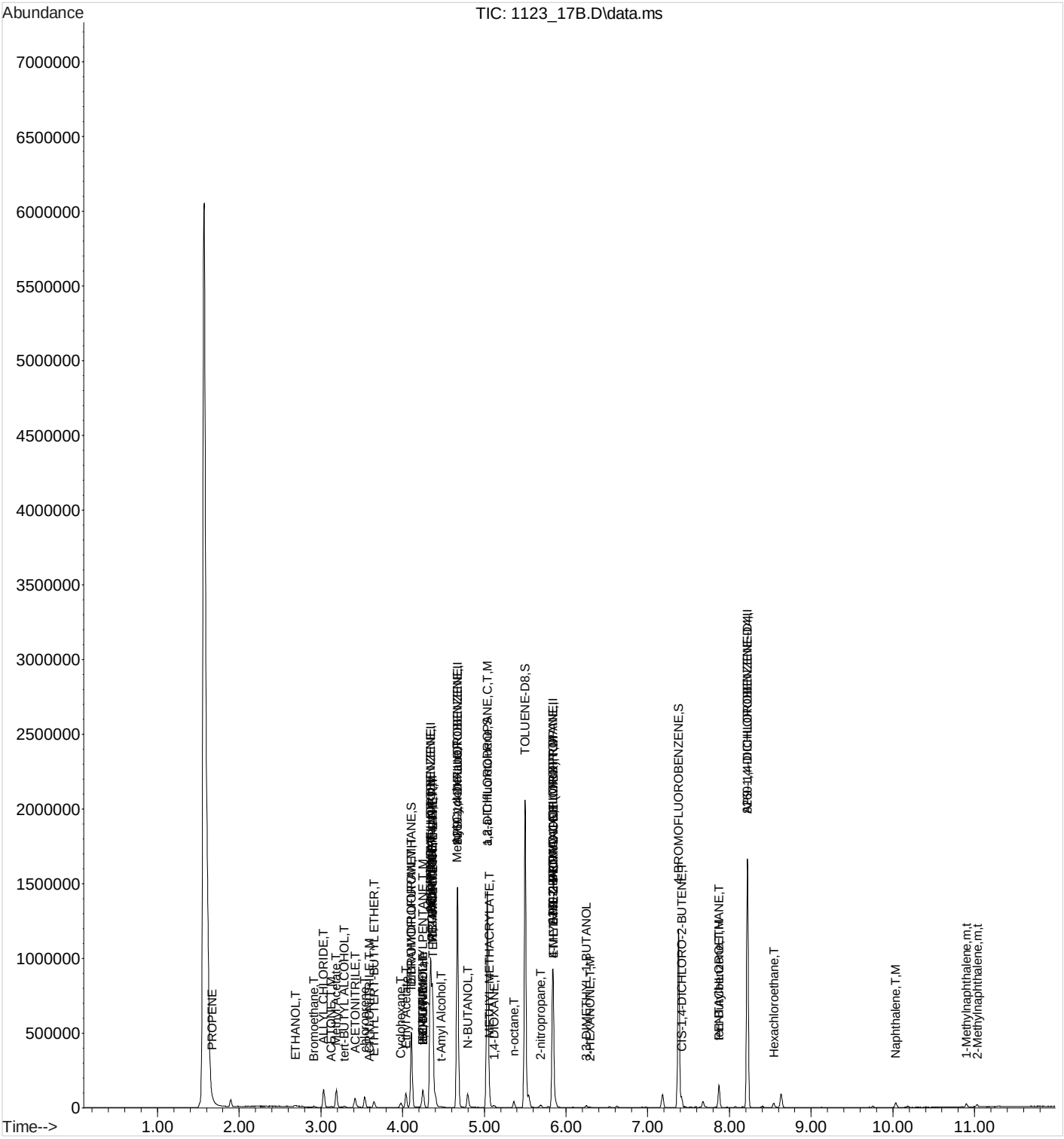
	Compound	R.T.	QIon	Response	Conc Units		Dev(Min)
97)	ETHANOL	2.685	45	10341	115.0044155 ppb	#	84
98)	Bromoethane	2.911	108	5721	1.0173742 ppb		94
99)	2-PROPANOL	3.026	45	6028	No Calib	#	
100)	Methyl Acetate	3.187	43	128432	20.3015259 ppb	#	97
101)	ACETONITRILE	3.419	41	62456	49.8460818 ppb		97
102)	ALLYL CHLORIDE	3.033	76	22374	5.0078697 ppb		99
103)	tert-BUTYL ALCOHOL	3.287	59	8152	5.8146282 ppb	#	79
104)	chloroprene	3.534	53	36720	4.7066248 ppb		99
105)	ETHYL TERT-BUTYL ETHER	3.650	59	27389	0.9981343 ppb		96
106)	PROPIONITRILE	4.357	54	62029	49.8202680 ppb	#	88
107)	Ethyl Acetate	4.039	43	85164	9.6761461 ppb		99
108)	METHACRYLONITRILE	4.367	67	184311	50.4582926 ppb		98
109)	Cyclohexane	3.978	84	8935	0.8992417 ppb		88
110)	tert-butyl formate	4.248	59	44918	8.0121604 ppb		90
111)	ISOBUTANOL	4.248	41	40781	89.4225807 ppb	#	97
112)	t-Amyl Alcohol	4.470	59	2877	4.6795921 ppb		99
113)	TERT-AMYL METHYL ETHER	4.370	73	24831	1.0294892 ppb	#	61
115)	N-BUTANOL	4.795	56	43982	172.1727399 ppb		94
116)	Methyl Cyclohexane	4.666	83	24947	0.9004985 ppb	#	75
117)	2-nitropropane	5.689	43	10335	5.1509239 ppb		90
118)	METHYL METHACRYLATE	5.062	41	38455	4.7726723 ppb	#	23
119)	1,4-DIOXANE	5.123	88	7106	87.7746291 ppb	#	90
120)	n-octane	5.361	85	6229	0.9285914 ppb		96
121)	3,3-DIMETHYL-1-BUTANOL	6.248	57	6378	10.2523538 ppb	#	90
123)	ETHYL METHACRYLATE	5.846	69	50540	4.5803516 ppb	#	1
124)	CIS-1,4-DICHLORO-2-BUTENE	7.415	53	14189	4.8223758 ppb	#	28
125)	Cyclohexanone	7.676	55	16347	No Calib		
126)	PENTACHLOROETHANE	7.872	117	27141	5.2844532 ppb		98
127)	Hexachloroethane	8.544	117	6301	0.9956521 ppb		98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\MSDchem\1\data\112314a\
Data File : 1123 17B.D
Acq On : 24 Nov 2014 9:39 am
Operator : 644
Sample : RL VMS 1a ppb 14I02840
Misc : water IS/SURR14K01013
ALS Vial : 17 Sample Multiplier: 1
InstName : VOCMS20

Quant Time: Nov 24 14:36:08 2014
Quant Method : C:\MSDchem\1\methods\V820K23N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS20
QLast Update : Mon Nov 24 14:32:41 2014
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\MSDchem\1\data\112314a\
Data File : 1123 15a.D
Acq On : 24 Nov 2014 3:56 am
Operator : 644
Sample : SSCV VMS 25 ppb 14K20062
Misc : water IS/SURR14K01013
ALS Vial : 15 Sample Multiplier: 1
InstName : VOCMS20

Quant Time: Nov 24 14:18:55 2014
Quant Method : C:\MSDchem\1\methods\V820K23N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS20
QLast Update : Mon Nov 24 14:18:13 2014
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 8260-PENTAFLUOROBENZENE	4.341	168	499553	40.0000000	ppb		0.00
41) 8260-1,4-DIFLUOROBENZENE	4.672	114	926234	40.0000000	ppb		0.00
53) 8260-2-BROMO-1-CHLOROP...	5.836	79	156201	40.0000000	ppb		0.00
84) 8260-1,4-DICHLOROBENZE...	8.219	152	389606	40.0000000	ppb		0.00
96) AP9-PENTAFLUOROBENZENE	4.341	168	499553	40.0000000	ppb		0.00
114) AP9-1,4-DIFLUOROBENZENE	4.672	114	926234	40.0000000	ppb		0.00
122) AP9-2-BROMO-1-CHLOROPR...	5.836	79	156201	40.0000000	ppb	#	0.00
128) AP9-1,4-DICHLOROBENZEN...	8.219	152	389606	40.0000000	ppb		0.00
System Monitoring Compounds							
33) DIBROMOFLUOROMETHANE	4.107	111	264976	38.6910820	ppb		0.00
Spiked Amount 40.000	Range 78 - 121		Recovery = 96.73%				
46) a,a,a-Trifluorotoluene	5.036	146	485971	41.4311776	ppb		0.00
Spiked Amount 40.000	Range 85 - 114		Recovery = 103.58%				
50) TOLUENE-D8	5.499	98	1185127	40.3754397	ppb		0.00
Spiked Amount 40.000	Range 89 - 111		Recovery = 100.94%				
68) 4-BROMOFLUOROBENZENE	7.377	95	409521	39.9812915	ppb		0.00
Spiked Amount 40.000	Range 71 - 126		Recovery = 99.95%				
Target Compounds							Qvalue
2) TPH (GC/MS) LOW FRACTION	4.096	TIC	3785474	No Calib			
3) PROPENE	1.676	41	58408	25.2999348	ppb		97
4) DICHLORODIFLUOROMETHANE	1.724	85	176512	21.4364033	ppb		100
5) CHLOROMETHANE	1.882	50	322241	23.3823928	ppb		100
6) VINYL CHLORIDE	1.956	62	271575	23.5014496	ppb		100
7) 1,3-BUTADIENE	1.968	39	206677	22.7806679	ppb		97
8) BROMOMETHANE	2.216	94	163309	22.5102902	ppb		100
9) CHLOROETHANE	2.312	66	51552	25.0545936	ppb		99
10) TRICHLOROFLUOROMETHANE	2.402	101	252616	23.6277026	ppb		99
11) DICHLOROFLUOROMETHANE	2.441	67	374551	24.1199315	ppb		99
12) ETHYL ETHER	2.595	59	210425	24.0332339	ppb		99
13) ACROLEIN	2.955	56	191127	136.1820708	ppb		98
14) 1,1-DICHLOROETHENE	2.740	61	309874	23.5885907	ppb		98
15) 1,1,2-TRICHLOROTRIFLUO...	2.763	101	168483	23.3274142	ppb		98
16) ACETONE	3.129	43	302878	118.5233951	ppb		99
17) IODOMETHANE	2.846	142	1535054	119.6955960	ppb		100
18) CARBON DISULFIDE	2.775	76	741299	23.5619067	ppb		99
19) METHYLENE CHLORIDE	3.103	84	261789	24.1881696	ppb		99
20) ACRYLONITRILE	3.592	53	421841	123.0061227	ppb		99
21) n-Hexane	3.219	56	231061	23.8095293	ppb		98
22) TRANS-1,2-DICHLOROETHENE	3.193	96	231500	24.0536736	ppb		98
23) METHYL TERT-BUTYL ETHER	3.242	73	667957	25.3350655	ppb	#	100
24) 1,1-DICHLOROETHANE	3.557	63	457516	24.3371377	ppb		99
25) VINYL ACETATE	3.669	43	1949622	130.9738605	ppb		99
26) DI-ISOPROPYL ETHER	3.444	45	983927	25.6450506	ppb		100
27) 2,2-Dichloropropane	3.923	77	227204	24.8870880	ppb		98
28) CIS-1,2-DICHLOROETHENE	3.859	96	261286	24.7322206	ppb		99
29) 2-BUTANONE (MEK)	4.171	72	132952	130.0804859	ppb		94
30) BROMOCHLOROMETHANE	3.978	130	137710	23.9294122	ppb		97
31) TETRAHYDROFURAN	4.103	42	71942	23.4530521	ppb		97
32) CHLOROFORM	4.000	83	415315	24.3930160	ppb		99
34) 1,1,1-TRICHLOROETHANE	4.132	97	287802	24.1592435	ppb		100
35) CARBON TETRACHLORIDE	4.094	119	229211	24.0059188	ppb		94

Quantitation Report (QT Reviewed)

Data Path : C:\MSDchem\1\data\112314a\
Data File : 1123 15a.D
Acq On : 24 Nov 2014 3:56 am
Operator : 644
Sample : SSCV VMS 25 ppb 14K20062
Misc : water IS/SURR14K01013
ALS Vial : 15 Sample Multiplier: 1
InstName : VOCMS20

Quant Time: Nov 24 14:18:55 2014
Quant Method : C:\MSDchem\1\methods\V820K23N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS20
QLast Update : Mon Nov 24 14:18:13 2014
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units		Dev(Min)
36) 1,1-Dichloropropene	4.197	75	315899	24.6258869 ppb		99
37) 2,2,4-TRIMETHYLPENTANE	4.232	57	967042	24.6075329 ppb		99
38) HEPTANE	4.271	43	439886	24.9837411 ppb	#	97
39) BENZENE	4.345	78	1033309	23.8811897 ppb		100
40) 1,2-DICHLOROETHANE	4.460	62	297765	24.4399398 ppb		99
42) TRICHLOROETHENE	4.666	130	210080	24.4563959 ppb		97
43) 1,2-DICHLOROPROPANE	4.984	62	195663	25.0567379 ppb		99
44) DIBROMOMETHANE	4.930	93	125359	24.7520803 ppb		98
45) BROMODICHLOROMETHANE	5.007	83	313409	24.1852684 ppb		100
47) 2-CHLOROETHYL VINYL ETHER	5.322	63	435732	119.7788981 ppb		100
48) CIS-1,3-DICHLOROPROPENE	5.386	75	421652	26.2810624 ppb		98
49) 4-METHYL-2-PENTANONE (...	5.750	58	424992	131.2822092 ppb		99
51) TOLUENE	5.531	91	1039431	22.7730834 ppb		100
52) TRANS-1,3-DICHLOROPROPENE	5.788	110	83594	25.9228757 ppb		99
54) 1,1,2-TRICHLOROETHANE	5.898	97	196619	25.3512022 ppb		99
55) TETRACHLOROETHENE	5.782	164	140558	24.0445577 ppb		99
56) 1,3-Dichloropropane	6.084	76	369405	23.9093462 ppb		98
57) 2-HEXANONE	6.293	58	409605	135.9339683 ppb		98
58) CHLORODIBROMOMETHANE	6.023	129	189454	25.1947305 ppb		98
59) 1,2-DIBROMOETHANE	6.203	107	183958	25.5244284 ppb		99
60) CHLOROBENZENE	6.537	112	639295	25.0319242 ppb		100
61) 1,1,1,2-TETRACHLOROETHANE	6.570	133	194023	25.0707536 ppb		99
62) ETHYLBENZENE	6.531	106	348075	26.4531706 ppb		99
63) M&P-XYLENE	6.624	106	867325	51.7608361 ppb		99
64) O-XYLENE	6.933	106	421433	26.5695176 ppb		100
65) STYRENE	6.971	104	705883	27.1535877 ppb		99
66) Bromoform	7.016	173	106346	26.4605523 ppb		98
67) Isopropylbenzene	7.148	105	1075881	26.9402426 ppb		100
69) Bromobenzene	7.467	77	536230	24.7197991 ppb		100
70) 1,1,2,2-TETRACHLOROETHANE	7.508	83	248875	24.9669109 ppb		99
71) 1,2,3-TRICHLOROPROPANE	7.627	110	69638	25.0124126 ppb		98
72) TRANS-1,4-DICHLORO-2-B...	7.643	53	73138	25.0329978 ppb		98
73) n-Propylbenzene	7.450	91	1338525	25.0505238 ppb		99
74) 4-ETHYLTOLUENE	7.528	105	1103559	25.9436128 ppb		99
75) 2-Chlorotoluene	7.589	126	248904	24.9994338 ppb		99
76) 4-Chlorotoluene	7.711	91	853627	25.7085959 ppb		100
77) 1,3,5-Trimethylbenzene	7.586	105	917365	25.6676770 ppb		99
78) tert-Butylbenzene	7.833	119	733830	26.2976744 ppb		98
79) 1,2,4-Trimethylbenzene	7.888	105	943362	26.2244414 ppb		98
80) sec-Butylbenzene	7.968	105	1198203	26.5420497 ppb		100
81) 1,3-DICHLOROBENZENE	8.164	146	478342	25.3522800 ppb		99
82) p-Isopropyltoluene	8.071	119	975475	27.3451633 ppb		99
83) DICYCLOPENTADIENE	8.077	66	1220202	26.6523692 ppb		100
85) 1,4-DICHLOROBENZENE	8.232	146	491116	24.5178780 ppb		97
86) 1,2,3-TRIMETHYLBENZENE	8.232	105	1012295	25.6124663 ppb		99
87) 1,2-DICHLOROBENZENE	8.566	146	443613	24.9478984 ppb		99
88) n-Butylbenzene	8.402	91	970846	25.8385224 ppb		99
89) 1,2-Dibromo-3-chloropr...	9.209	157	36988	25.5012724 ppb		95
90) 1,2,4-Trichlorobenzene	9.753	180	267154	25.7833264 ppb		97
91) HEXACHLORO-1,3-BUTADIENE	9.708	225	137442	25.5050543 ppb		99
92) Naphthalene	10.032	128	689869	26.2501359 ppb		100
93) 1,2,3-Trichlorobenzene	10.184	180	250023	26.4551411 ppb		99
94) 1-Methylnaphthalene	10.901	142	399234	29.5121483 ppb		99
95) 2-Methylnaphthalene	11.032	142	348207	29.0647022 ppb		98

Quantitation Report (QT Reviewed)

Data Path : C:\MSDchem\1\data\112314a\
Data File : 1123 15a.D
Acq On : 24 Nov 2014 3:56 am
Operator : 644
Sample : SSCV VMS 25 ppb 14K20062
Misc : water IS/SURR14K01013
ALS Vial : 15 Sample Multiplier: 1
InstName : VOCMS20

Quant Time: Nov 24 14:18:55 2014
Quant Method : C:\MSDchem\1\methods\V820K23N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS20
QLast Update : Mon Nov 24 14:18:13 2014
Response via : Initial Calibration

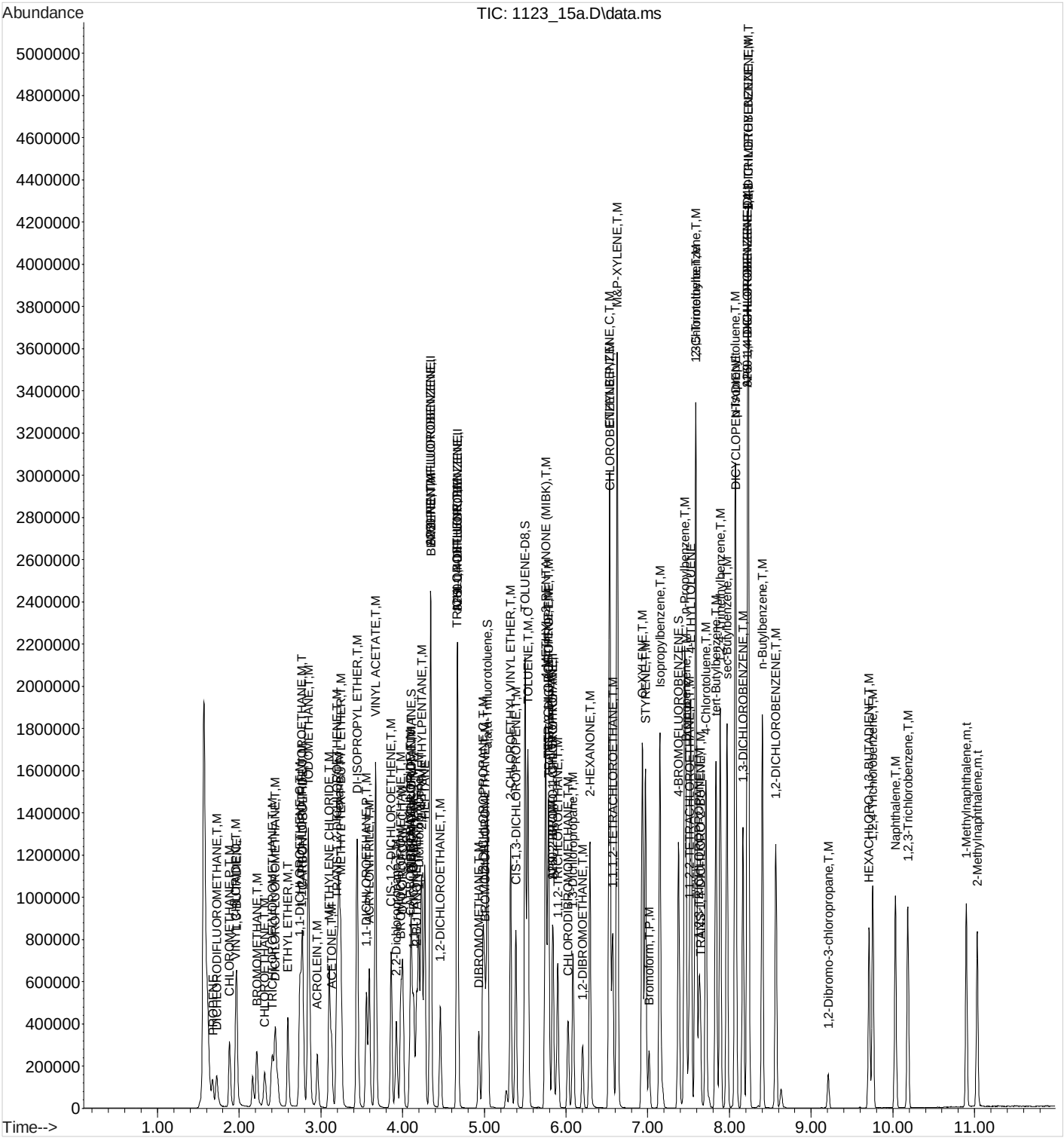
	Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
97)	ETHANOL	0.000		0	N.D.	
98)	Bromoethane	2.930	108	9719	No Calib	
99)	2-PROPANOL	3.029	45	683	No Calib	#
100)	Methyl Acetate	3.219	43	421714	No Calib	#
101)	ACETONITRILE	3.444	41	151773	No Calib	#
102)	ALLYL CHLORIDE	0.000		0	N.D.	
103)	tert-BUTYL ALCOHOL	3.280	59	1305	No Calib	#
104)	chloroprene	3.592	53	421841	No Calib	#
105)	ETHYL TERT-BUTYL ETHER	3.563	59	2460	No Calib	#
106)	PROPIONITRILE	4.271	54	3537	No Calib	#
107)	Ethyl Acetate	4.007	43	602	No Calib	#
108)	METHACRYLONITRILE	4.338	67	1659	No Calib	#
109)	Cyclohexane	4.000	84	15545	No Calib	#
110)	tert-butyl formate	4.197	59	1405	No Calib	#
111)	ISOBUTANOL	4.232	41	236087	No Calib	#
112)	t-Amyl Alcohol	4.460	59	1506	No Calib	#
113)	TERT-AMYL METHYL ETHER	4.341	73	16651	No Calib	#
115)	N-BUTANOL	0.000		0	N.D.	
116)	Methyl Cyclohexane	4.669	83	16040	No Calib	#
117)	2-nitropropane	5.750	43	1104567	No Calib	#
118)	METHYL METHACRYLATE	5.100	41	1057	No Calib	#
119)	1,4-DIOXANE	5.036	88	5668	No Calib	#
120)	n-octane	5.383	85	5414	No Calib	#
121)	3,3-DIMETHYL-1-BUTANOL	6.293	57	133777	No Calib	#
123)	ETHYL METHACRYLATE	5.750	69	6827	No Calib	#
124)	CIS-1,4-DICHLORO-2-BUTENE	7.415	53	3375	No Calib	#
125)	Cyclohexanone	7.643	55	1667	No Calib	#
126)	PENTACHLOROETHANE	7.888	117	30790	No Calib	#
127)	Hexachloroethane	8.544	117	1923	No Calib	#

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\MSDchem\1\data\112314a\
Data File : 1123 15a.D
Acq On : 24 Nov 2014 3:56 am
Operator : 644
Sample : SSCV VMS 25 ppb 14K20062
Misc : water IS/SURR14K01013
ALS Vial : 15 Sample Multiplier: 1
InstName : VOCMS20

Quant Time: Nov 24 14:18:55 2014
Quant Method : C:\MSDchem\1\methods\V820K23N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS20
QLast Update : Mon Nov 24 14:18:13 2014
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\MSDchem\1\data\112314a\
Data File : 1123 27A.D
Acq On : 24 Nov 2014 1:04 pm
Operator : 644
Sample : SSCV VMS 10a ppb 14I02844
Misc : water IS/SURR14K01013
ALS Vial : 27 Sample Multiplier: 1
InstName : VOCMS20

Quant Time: Nov 24 14:33:00 2014
Quant Method : C:\MSDchem\1\methods\V820K23N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS20
QLast Update : Mon Nov 24 14:32:41 2014
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 8260-PENTAFLUOROBENZENE	4.341	168	484569	40.0000000 ppb	0.00
41) 8260-1,4-DIFLUOROBENZENE	4.669	114	904194	40.0000000 ppb	0.00
53) 8260-2-BROMO-1-CHLOROP...	5.837	79	151098	40.0000000 ppb	# 0.00
84) 8260-1,4-DICHLOROBENZE...	8.219	152	354688	40.0000000 ppb	0.00
96) AP9-PENTAFLUOROBENZENE	4.341	168	484569	40.0000000 ppb	0.00
114) AP9-1,4-DIFLUOROBENZENE	4.669	114	904194	40.0000000 ppb	0.00
122) AP9-2-BROMO-1-CHLOROPR...	5.837	79	151098	40.0000000 ppb	0.00
128) AP9-1,4-DICHLOROBENZEN...	8.219	152	354688	40.0000000 ppb	0.00
System Monitoring Compounds					
33) DIBROMOFLUOROMETHANE	4.107	111	254871	38.3663693 ppb	0.00
Spiked Amount 40.000	Range 78 - 121		Recovery = 95.92%		
46) a,a,a-Trifluorotoluene	5.036	146	478755	41.8108835 ppb	0.00
Spiked Amount 40.000	Range 85 - 114		Recovery = 104.53%		
50) TOLUENE-D8	5.499	98	1148880	40.0946236 ppb	0.00
Spiked Amount 40.000	Range 89 - 111		Recovery = 100.24%		
68) 4-BROMOFLUOROBENZENE	7.377	95	368316	37.1728895 ppb	0.00
Spiked Amount 40.000	Range 71 - 126		Recovery = 92.93%		
Target Compounds					Qvalue
2) TPH (GC/MS) LOW FRACTION	4.096	TIC	8990907	No Calib	
3) PROPENE	1.673	41	1394	0.6224949 ppb #	53
4) DICHLORODIFLUOROMETHANE	0.000		0	N.D.	
5) CHLOROMETHANE	1.895	50	13247	0.9909498 ppb #	79
6) VINYL CHLORIDE	0.000		0	N.D.	
7) 1,3-BUTADIENE	1.952	39	2584	0.2936248 ppb	91
8) BROMOMETHANE	0.000		0	N.D.	
9) CHLOROETHANE	0.000		0	N.D.	
10) TRICHLOROFLUOROMETHANE	0.000		0	N.D.	
11) DICHLOROFLUOROMETHANE	0.000		0	N.D.	
12) ETHYL ETHER	0.000		0	N.D.	
13) ACROLEIN	0.000		0	N.D.	
14) 1,1-DICHLOROETHENE	0.000		0	N.D.	
15) 1,1,2-TRICHLOROTRIFLUO...	0.000		0	N.D.	
16) ACETONE	3.129	43	7067	2.8510011 ppb	97
17) IODOMETHANE	0.000		0	N.D.	
18) CARBON DISULFIDE	2.776	76	925	0.0303099 ppb #	71
19) METHYLENE CHLORIDE	3.094	84	2626	0.2501337 ppb #	87
20) ACRYLONITRILE	3.647	53	3781	1.1366076 ppb #	28
21) n-Hexane	3.284	56	3803	0.4039954 ppb #	1
22) TRANS-1,2-DICHLOROETHENE	0.000		0	N.D.	
23) METHYL TERT-BUTYL ETHER	3.242	73	1590	0.0621723 ppb #	100
24) 1,1-DICHLOROETHANE	3.538	63	5710	0.3131304 ppb #	43
25) VINYL ACETATE	3.647	43	29855	2.0676510 ppb #	76
26) DI-ISOPROPYL ETHER	0.000		0	N.D.	
27) 2,2-Dichloropropane	3.978	77	1897	0.2142157 ppb #	58
28) CIS-1,2-DICHLOROETHENE	0.000		0	N.D.	
29) 2-BUTANONE (MEK)	0.000		0	N.D.	
30) BROMOCHLOROMETHANE	0.000		0	N.D.	
31) TETRAHYDROFURAN	4.097	42	1856	0.6237647 ppb #	34
32) CHLOROFORM	3.981	83	7480	0.4529137 ppb #	45
34) 1,1,1-TRICHLOROETHANE	0.000		0	N.D.	
35) CARBON TETRACHLORIDE	0.000		0	N.D.	

Quantitation Report (QT Reviewed)

Data Path : C:\MSDchem\1\data\112314a\
Data File : 1123 27A.D
Acq On : 24 Nov 2014 1:04 pm
Operator : 644
Sample : SSCV VMS 10a ppb 14I02844
Misc : water IS/SURR14K01013
ALS Vial : 27 Sample Multiplier: 1
InstName : VOCMS20

Quant Time: Nov 24 14:33:00 2014
Quant Method : C:\MSDchem\1\methods\V820K23N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS20
QLast Update : Mon Nov 24 14:32:41 2014
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
36) 1,1-Dichloropropene	0.000		0	N.D.		
37) 2,2,4-TRIMETHYLPENTANE	4.248	57	483375	12.6803975	ppb #	1
38) HEPTANE	4.248	43	91033	5.3301831	ppb #	23
39) BENZENE	4.341	78	3263	0.0777443	ppb #	60
40) 1,2-DICHLOROETHANE	4.364	62	50669	4.2874075	ppb #	72
42) TRICHLOROETHENE	4.669	130	6500	0.7751401	ppb #	74
43) 1,2-DICHLOROPROPANE	5.033	62	8925	1.1708012	ppb #	12
44) DIBROMOMETHANE	5.036	93	2399	0.4852276	ppb #	1
45) BROMODICHLOROMETHANE	5.058	83	1570	0.1241075	ppb #	1
47) 2-CHLOROETHYL VINYL ETHER	0.000		0	N.D.		
48) CIS-1,3-DICHLOROPROPENE	0.000		0	N.D.		
49) 4-METHYL-2-PENTANONE (...	5.702	58	582	0.1841650	ppb #	1
51) TOLUENE	5.531	91	5132	0.1151786	ppb	93
52) TRANS-1,3-DICHLOROPROPENE	0.000		0	N.D.		
54) 1,1,2-TRICHLOROETHANE	5.846	97	1995	0.2659139	ppb #	1
55) TETRACHLOROETHENE	5.782	164	9099	1.6090887	ppb	96
56) 1,3-Dichloropropane	6.078	76	711	0.0475729	ppb #	43
57) 2-HEXANONE	6.248	58	2546	0.8734665	ppb #	1
58) CHLORODIBROMOMETHANE	0.000		0	N.D.		
59) 1,2-DIBROMOETHANE	0.000		0	N.D.		
60) CHLOROBENZENE	6.534	112	522	0.0211295	ppb #	19
61) 1,1,1,2-TETRACHLOROETHANE	6.570	133	4460	0.5957638	ppb #	89
62) ETHYLBENZENE	0.000		0	N.D.		
63) M&P-XYLENE	6.628	106	1988	0.1226481	ppb	80
64) O-XYLENE	6.933	106	670	0.0436672	ppb #	37
65) STYRENE	6.978	104	777	0.0308987	ppb #	33
66) Bromoform	0.000		0	N.D.		
67) Isopropylbenzene	0.000		0	N.D.		
69) Bromobenzene	7.467	77	1076	0.0512780	ppb #	33
70) 1,1,2,2-TETRACHLOROETHANE	7.679	83	6576	0.6819781	ppb #	26
71) 1,2,3-TRICHLOROPROPANE	0.000		0	N.D.		
72) TRANS-1,4-DICHLORO-2-B...	7.640	53	5004	1.7705662	ppb #	86
73) n-Propylbenzene	7.451	91	1325	0.0256349	ppb #	61
74) 4-ETHYLTOLUENE	7.528	105	3284	0.0798111	ppb	97
75) 2-Chlorotoluene	0.000		0	N.D.		
76) 4-Chlorotoluene	7.718	91	1138	0.0354305	ppb #	52
77) 1,3,5-Trimethylbenzene	7.582	105	797	0.0230530	ppb #	29
78) tert-Butylbenzene	7.872	119	297845	11.0341095	ppb #	32
79) 1,2,4-Trimethylbenzene	7.885	105	2658	0.0763850	ppb #	1
80) sec-Butylbenzene	0.000		0	N.D.		
81) 1,3-DICHLOROBENZENE	8.164	146	820	0.0449280	ppb #	19
82) p-Isopropyltoluene	8.071	119	758	0.0219664	ppb #	48
83) DICYCLOPENTADIENE	8.074	66	671	0.0151514	ppb #	72
85) 1,4-DICHLOROBENZENE	8.229	146	1185	0.0649825	ppb #	1
86) 1,2,3-TRIMETHYLBENZENE	8.222	105	691	0.0192044	ppb #	48
87) 1,2-DICHLOROBENZENE	8.570	146	686	0.0423773	ppb #	24
88) n-Butylbenzene	8.402	91	1100	0.0321580	ppb #	32
89) 1,2-Dibromo-3-chloropr...	0.000		0	N.D.		
90) 1,2,4-Trichlorobenzene	0.000		0	N.D.		
91) HEXACHLORO-1,3-BUTADIENE	0.000		0	N.D.		
92) Naphthalene	10.033	128	2866	0.1197899	ppb #	71
93) 1,2,3-Trichlorobenzene	0.000		0	N.D.		
94) 1-Methylnaphthalene	10.897	142	2052	0.1666210	ppb	96
95) 2-Methylnaphthalene	11.036	142	1285	0.1178177	ppb #	84

Quantitation Report (QT Reviewed)

Data Path : C:\MSDchem\1\data\112314a\
Data File : 1123 27A.D
Acq On : 24 Nov 2014 1:04 pm
Operator : 644
Sample : SSCV VMS 10a ppb 14I02844
Misc : water IS/SURR14K01013
ALS Vial : 27 Sample Multiplier: 1
InstName : VOCMS20

Quant Time: Nov 24 14:33:00 2014
Quant Method : C:\MSDchem\1\methods\V820K23N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS20
QLast Update : Mon Nov 24 14:32:41 2014
Response via : Initial Calibration

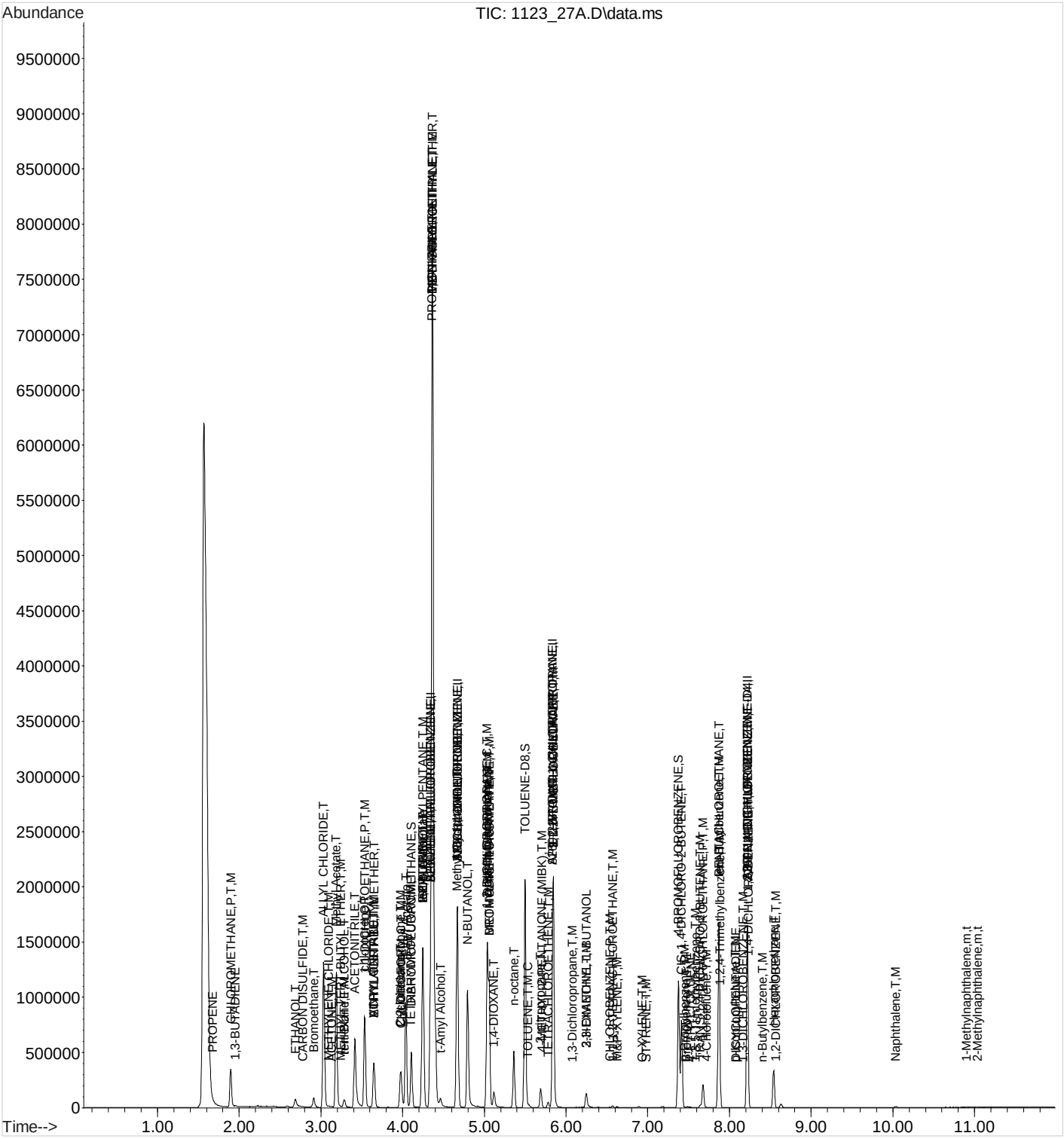
	Compound	R.T.	QIon	Response	Conc Units		Dev(Min)
97)	ETHANOL	2.686	45	90534	987.8998299 ppb	#	97
98)	Bromoethane	2.911	108	64314	11.2218261 ppb		98
99)	2-PROPANOL	3.023	45	27838	No Calib		
100)	Methyl Acetate	3.187	43	1308306	202.9149262 ppb	#	100
101)	ACETONITRILE	3.415	41	647979	507.4193398 ppb		99
102)	ALLYL CHLORIDE	3.033	76	249389	54.7691384 ppb		99
103)	tert-BUTYL ALCOHOL	3.284	59	72760	50.9213245 ppb		96
104)	chloroprene	3.534	53	431298	54.2417352 ppb		99
105)	ETHYL TERT-BUTYL ETHER	3.650	59	292186	10.4477180 ppb		99
106)	PROPIONITRILE	4.358	54	641522	505.5592480 ppb		100
107)	Ethyl Acetate	4.039	43	890283	99.2484355 ppb		99
108)	METHACRYLONITRILE	4.364	67	1931477	518.8240041 ppb		99
109)	Cyclohexane	3.978	84	115353	11.3909515 ppb		96
110)	tert-butyl formate	4.248	59	597144	104.5099216 ppb		100
111)	ISOBUTANOL	4.245	41	473944	1019.6839476 ppb	#	100
112)	t-Amyl Alcohol	4.464	59	31033	49.5268971 ppb		92
113)	TERT-AMYL METHYL ETHER	4.367	73	260375	10.5919542 ppb	#	99
115)	N-BUTANOL	4.795	56	523434	2050.1003182 ppb		99
116)	Methyl Cyclohexane	4.663	83	158187	11.9157035 ppb		99
117)	2-nitropropane	5.689	43	103081	51.4016480 ppb		98
118)	METHYL METHACRYLATE	5.058	41	438925	54.5033114 ppb		97
119)	1,4-DIOXANE	5.116	88	88399	1092.4835830 ppb		94
120)	n-octane	5.361	85	81569	12.1662073 ppb		98
121)	3,3-DIMETHYL-1-BUTANOL	6.248	57	60909	97.9589914 ppb		99
123)	ETHYL METHACRYLATE	5.846	69	622455	54.9499779 ppb		91
124)	CIS-1,4-DICHLORO-2-BUTENE	7.412	53	160700	53.2011624 ppb		99
125)	Cyclohexanone	7.676	55	80131	No Calib		
126)	PENTACHLOROETHANE	7.872	117	311698	59.1158869 ppb		98
127)	Hexachloroethane	8.541	117	71891	11.0654393 ppb		97

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\MSDchem\1\data\112314a\
Data File : 1123 27A.D
Acq On : 24 Nov 2014 1:04 pm
Operator : 644
Sample : SSCV VMS 10a ppb 14I02844
Misc : water IS/SURR14K01013
ALS Vial : 27 Sample Multiplier: 1
InstName : VOCMS20

Quant Time: Nov 24 14:33:00 2014
Quant Method : C:\MSDchem\1\methods\V820K23N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS20
QLast Update : Mon Nov 24 14:32:41 2014
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\MSDchem\1\data\112314a\
Data File : 1123 03a.D
Acq On : 24 Nov 2014 12:16 am
Operator : 644
Sample : STD VMS .25 ppb 14K20062
Misc : water IS/SURR14K01013
ALS Vial : 3 Sample Multiplier: 1
InstName : VOCMS20

Quant Time: Nov 24 12:32:36 2014
Quant Method : C:\MSDchem\1\methods\V820K23N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS20
QLast Update : Mon Nov 24 12:26:38 2014
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 8260-PENTAFLUOROBENZENE	4.342	168	466696	40.0000000	ppb	0.00
41) 8260-1,4-DIFLUOROBENZENE	4.673	114	894611	40.0000000	ppb	0.00
53) 8260-2-BROMO-1-CHLOROP...	5.837	79	146743	40.0000000	ppb	0.00
84) 8260-1,4-DICHLOROBENZE...	8.219	152	358028	40.0000000	ppb	0.00
96) AP9-PENTAFLUOROBENZENE	0.000	168	0m	40.0000000	ppb	-4.34
114) AP9-1,4-DIFLUOROBENZENE	0.000	114	0m	40.0000000	ppb	-4.67
122) AP9-2-BROMO-1-CHLOROPR...	0.000	79	0m	40.0000000	ppb	-5.84
128) AP9-1,4-DICHLOROBENZEN...	0.000	152	0m	40.0000000	ppb	-8.22
System Monitoring Compounds						
33) DIBROMOFLUOROMETHANE	4.107	111	258435	41.0900910	ppb	0.00
Spiked Amount 40.000	Range 78 - 121		Recovery = 102.73%			
46) a,a,a-Trifluorotoluene	5.036	146	473836	42.2302858	ppb	0.00
Spiked Amount 40.000	Range 85 - 114		Recovery = 105.58%			
50) TOLUENE-D8	5.499	98	1152209	40.2816223	ppb	0.00
Spiked Amount 40.000	Range 89 - 111		Recovery = 100.70%			
68) 4-BROMOFLUOROBENZENE	7.377	95	382417	39.4823582	ppb	0.00
Spiked Amount 40.000	Range 71 - 126		Recovery = 98.71%			
Target Compounds						Qvalue
2) TPH (GC/MS) LOW FRACTION	4.096	TIC	-7696796m	Below Cal		
3) PROPENE	1.663	41	1389	0.6816380	ppb	91
4) DICHLORODIFLUOROMETHANE	1.721	85	2044	0.2763084	ppb #	42
5) CHLOROMETHANE	1.879	50	3717	0.3059715	ppb #	87
6) VINYL CHLORIDE	1.949	62	2499	0.2405807	ppb #	89
7) 1,3-BUTADIENE	1.962	39	2538	0.3259240	ppb #	74
8) BROMOMETHANE	2.219	94	2183	0.3557494	ppb #	69
9) CHLOROETHANE	2.313	66	274m	0.1450501	ppb	
10) TRICHLOROFLUOROMETHANE	2.406	101	2646	0.2782429	ppb #	83
11) DICHLOROFLUOROMETHANE	2.435	67	3863	0.2833538	ppb #	82
12) ETHYL ETHER	2.592	59	2119	0.2661320	ppb #	70
13) ACROLEIN	2.956	56	1841	1.4090422	ppb	89
14) 1,1-DICHLOROETHENE	2.740	61	3394	0.2855202	ppb	96
15) 1,1,2-TRICHLOROTRIFLUO...	2.760	101	1670	0.2594099	ppb #	26
16) ACETONE	3.129	43	6793	2.9868770	ppb	98
17) IODOMETHANE	2.846	142	14448	1.2536016	ppb	95
18) CARBON DISULFIDE	2.776	76	8281	0.2968930	ppb #	77
19) METHYLENE CHLORIDE	3.100	84	2566	0.2623672	ppb	92
20) ACRYLONITRILE	3.589	53	3807	1.1543121	ppb #	93
21) n-Hexane	3.223	56	2554	0.2945622	ppb #	76
22) TRANS-1,2-DICHLOROETHENE	3.197	96	2425	0.2863221	ppb	93
23) METHYL TERT-BUTYL ETHER	3.248	73	5751	0.2309796	ppb #	100
24) 1,1-DICHLOROETHANE	3.557	63	4671	0.2748071	ppb	95
25) VINYL ACETATE	3.670	43	16433	1.1630743	ppb	99
26) DI-ISOPROPYL ETHER	3.441	45	8453	0.2349392	ppb	88
27) 2,2-Dichloropropane	3.924	77	2461	0.2993180	ppb #	58
28) CIS-1,2-DICHLOROETHENE	3.859	96	2455	0.2516295	ppb	97
29) 2-BUTANONE (MEK)	4.174	72	871	0.8748662	ppb #	1
30) BROMOCHLOROMETHANE	3.975	130	1566	0.3065365	ppb	78
31) TETRAHYDROFURAN	4.104	42	841	0.3002398	ppb #	54
32) CHLOROFORM	3.998	83	4103	0.2670695	ppb #	91
34) 1,1,1-TRICHLOROETHANE	4.133	97	3095	0.2907639	ppb #	82
35) CARBON TETRACHLORIDE	4.097	119	2113	0.2464098	ppb	89

Quantitation Report (QT Reviewed)

Data Path : C:\MSDchem\1\data\112314a\
Data File : 1123 03a.D
Acq On : 24 Nov 2014 12:16 am
Operator : 644
Sample : STD VMS .25 ppb 14K20062
Misc : water IS/SURR14K01013
ALS Vial : 3 Sample Multiplier: 1
InstName : VOCMS20

Quant Time: Nov 24 12:32:36 2014
Quant Method : C:\MSDchem\1\methods\V820K23N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS20
QLast Update : Mon Nov 24 12:26:38 2014
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units		Dev(Min)
36) 1,1-Dichloropropene	4.197	75	3078	0.2609167 ppb	#	87
37) 2,2,4-TRIMETHYLPENTANE	4.229	57	9524	0.2667254 ppb	#	82
38) HEPTANE	4.271	43	4466	0.2791928 ppb	#	81
39) BENZENE	4.345	78	10578	0.2736365 ppb	#	16
40) 1,2-DICHLOROETHANE	4.461	62	3057	0.2739614 ppb	#	72
42) TRICHLOROETHENE	4.663	130	1885	0.2311787 ppb	#	84
43) 1,2-DICHLOROPROPANE	4.985	62	1806	0.2420688 ppb		92
44) DIBROMOMETHANE	4.933	93	1043	0.2127967 ppb	#	83
45) BROMODICHLOROMETHANE	5.010	83	3840	0.3216836 ppb	#	82
47) 2-CHLOROETHYL VINYL ETHER	5.319	63	2695	0.7407301 ppb	#	80
48) CIS-1,3-DICHLOROPROPENE	5.387	75	3365	0.2112505 ppb	#	98
49) 4-METHYL-2-PENTANONE (...	5.750	58	3394	1.0102627 ppb		98
51) TOLUENE	5.531	91	15225	0.3816440 ppb		97
52) TRANS-1,3-DICHLOROPROPENE	5.785	110	666	0.2049041 ppb	#	79
54) 1,1,2-TRICHLOROETHANE	5.895	97	1631	0.2306203 ppb	#	86
55) TETRACHLOROETHENE	5.782	164	1509	0.2887059 ppb		91
56) 1,3-Dichloropropane	6.087	76	4287	0.3128420 ppb	#	69
57) 2-HEXANONE	6.293	58	3038	0.9843993 ppb		84
58) CHLORODIBROMOMETHANE	6.023	129	1736	0.2475758 ppb	#	79
59) 1,2-DIBROMOETHANE	6.200	107	1584	0.2347238 ppb		83
60) CHLOROBENZENE	6.534	112	6446	0.2756477 ppb	#	89
61) 1,1,1,2-TETRACHLOROETHANE	6.570	133	1968	0.2820030 ppb	#	50
62) ETHYLBENZENE	6.528	106	3116	0.2460775 ppb		96
63) M&P-XYLENE	6.628	106	7737	0.4880215 ppb		99
64) O-XYLENE	6.933	106	3496	0.2303482 ppb		99
65) STYRENE	6.972	104	4586	0.1780585 ppb		95
66) Bromoform	7.013	173	642	0.1661706 ppb	#	28
67) Isopropylbenzene	7.149	105	8345	0.2143044 ppb	#	94
69) Bromobenzene	7.467	77	5461	0.2781619 ppb		97
70) 1,1,2,2-TETRACHLOROETHANE	7.509	83	2001	0.2117168 ppb	#	82
71) 1,2,3-TRICHLOROPROPANE	7.634	110	489m	0.1836490 ppb		
72) TRANS-1,4-DICHLORO-2-B...	7.640	53	300m	0.1071746 ppb		
73) n-Propylbenzene	7.451	91	13621	0.2740526 ppb		97
74) 4-ETHYLTOLUENE	7.528	105	10363	0.2585785 ppb		99
75) 2-Chlorotoluene	7.589	126	2304	0.2530457 ppb		97
76) 4-Chlorotoluene	7.714	91	7974	0.2542856 ppb		97
77) 1,3,5-Trimethylbenzene	7.586	105	8377	0.2447421 ppb		95
78) tert-Butylbenzene	7.833	119	6241	0.2318411 ppb		99
79) 1,2,4-Trimethylbenzene	7.885	105	8509	0.2399975 ppb		94
80) sec-Butylbenzene	7.968	105	9514	0.2179248 ppb		99
81) 1,3-DICHLOROBENZENE	8.165	146	4649	0.2641803 ppb		97
82) p-Isopropyltoluene	8.068	119	6936	0.1961349 ppb		98
83) DICYCLOPENTADIENE	8.078	66	8507	0.1895473 ppb	#	89
85) 1,4-DICHLOROBENZENE	8.232	146	5227	0.3004413 ppb	#	1
86) 1,2,3-TRIMETHYLBENZENE	8.232	105	9171	0.2562972 ppb		89
87) 1,2-DICHLOROBENZENE	8.566	146	4562	0.2899988 ppb	#	86
88) n-Butylbenzene	8.402	91	9397	0.2710099 ppb		98
89) 1,2-Dibromo-3-chloropr...	0.000		0	N.D.		
90) 1,2,4-Trichlorobenzene	9.750	180	2619	0.2707213 ppb	#	82
91) HEXACHLORO-1,3-BUTADIENE	9.705	225	1268	0.2623680 ppb	#	47
92) Naphthalene	10.033	128	7055	0.2863240 ppb	#	71
93) 1,2,3-Trichlorobenzene	10.184	180	2049	0.2269114 ppb		85
94) 1-Methylnaphthalene	10.898	142	4091	0.3041412 ppb		97
95) 2-Methylnaphthalene	11.033	142	3095	0.2532573 ppb	#	92

Quantitation Report (QT Reviewed)

Data Path : C:\MSDchem\1\data\112314a\
Data File : 1123 03a.D
Acq On : 24 Nov 2014 12:16 am
Operator : 644
Sample : STD VMS .25 ppb 14K20062
Misc : water IS/SURR14K01013
ALS Vial : 3 Sample Multiplier: 1
InstName : VOCMS20

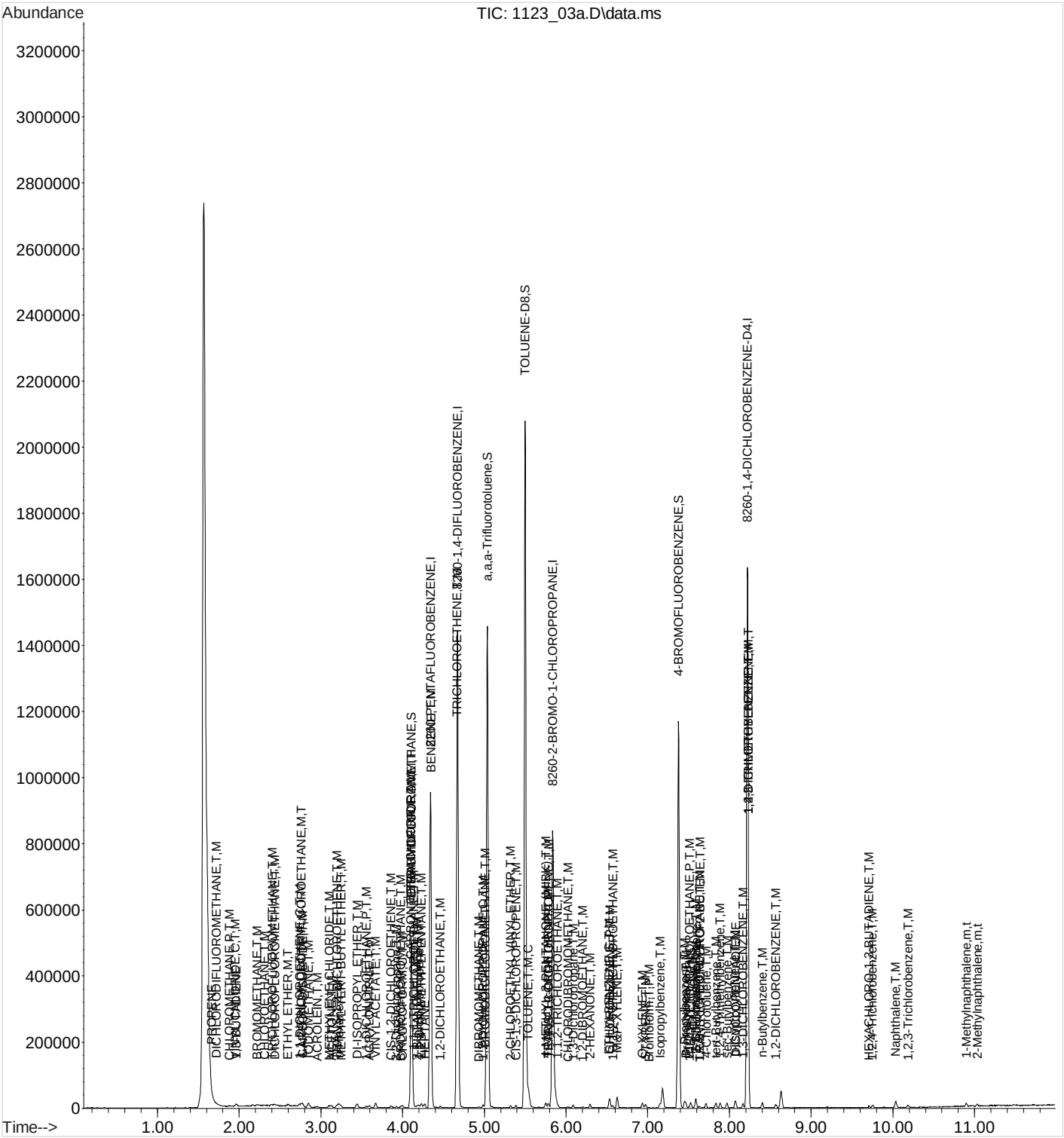
Quant Time: Nov 24 12:32:36 2014
Quant Method : C:\MSDchem\1\methods\V820K23N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS20
QLast Update : Mon Nov 24 12:26:38 2014
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
97)	ETHANOL	0.000		0	N.D.	
98)	Bromoethane	0.000		0	N.D.	
99)	2-PROPANOL	0.000		0	N.D.	
100)	Methyl Acetate	0.000		0	N.D.	d
101)	ACETONITRILE	0.000		0	N.D.	d
102)	ALLYL CHLORIDE	0.000		0	N.D.	
103)	tert-BUTYL ALCOHOL	0.000		0	N.D.	
104)	chloroprene	0.000		0	N.D.	d
105)	ETHYL TERT-BUTYL ETHER	0.000		0	N.D.	
106)	PROPIONITRILE	0.000		0	N.D.	
107)	Ethyl Acetate	0.000		0	N.D.	
108)	METHACRYLONITRILE	0.000		0	N.D.	d
109)	Cyclohexane	0.000		0	N.D.	
110)	tert-butyl formate	0.000		0	N.D.	
111)	ISOBUTANOL	0.000		0	N.D.	d
112)	t-Amyl Alcohol	0.000		0	N.D.	
113)	TERT-AMYL METHYL ETHER	0.000		0	N.D.	
115)	N-BUTANOL	0.000		0	N.D.	
116)	Methyl Cyclohexane	0.000		0	N.D.	d
117)	2-nitropropane	0.000		0	N.D.	d
118)	METHYL METHACRYLATE	0.000		0	N.D.	d
119)	1,4-DIOXANE	0.000		0	N.D.	d
120)	n-octane	0.000		0	N.D.	
121)	3,3-DIMETHYL-1-BUTANOL	0.000		0	N.D.	d
123)	ETHYL METHACRYLATE	0.000		0	N.D.	
124)	CIS-1,4-DICHLORO-2-BUTENE	0.000		0	N.D.	
125)	Cyclohexanone	0.000		0	N.D.	
126)	PENTACHLOROETHANE	0.000		0	N.D.	
127)	Hexachloroethane	0.000		0	N.D.	d

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : C:\MSDchem\1\data\112314a\
Data File : 1123 03a.D
Acq On : 24 Nov 2014 12:16 am
Operator : 644
Sample : STD VMS .25 ppb 14K20062
Misc : water IS/SURR14K01013
ALS Vial : 3 Sample Multiplier: 1
InstName : VOCMS20

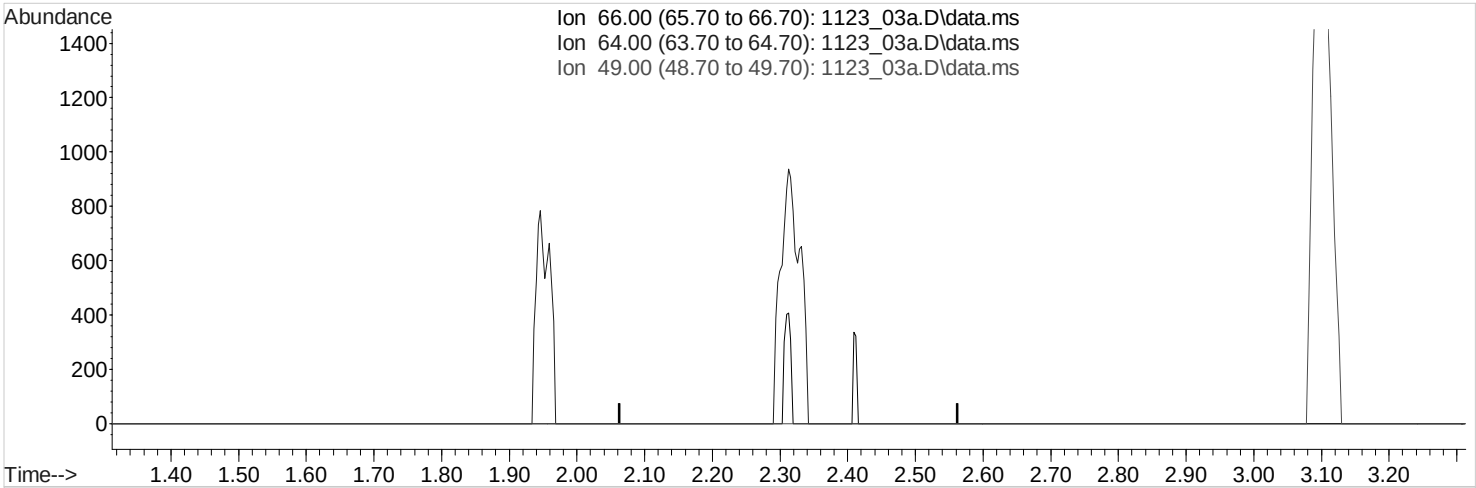
Quant Time: Nov 24 12:32:36 2014
Quant Method : C:\MSDchem\1\methods\V820K23N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS20
QLast Update : Mon Nov 24 12:26:38 2014
Response via : Initial Calibration

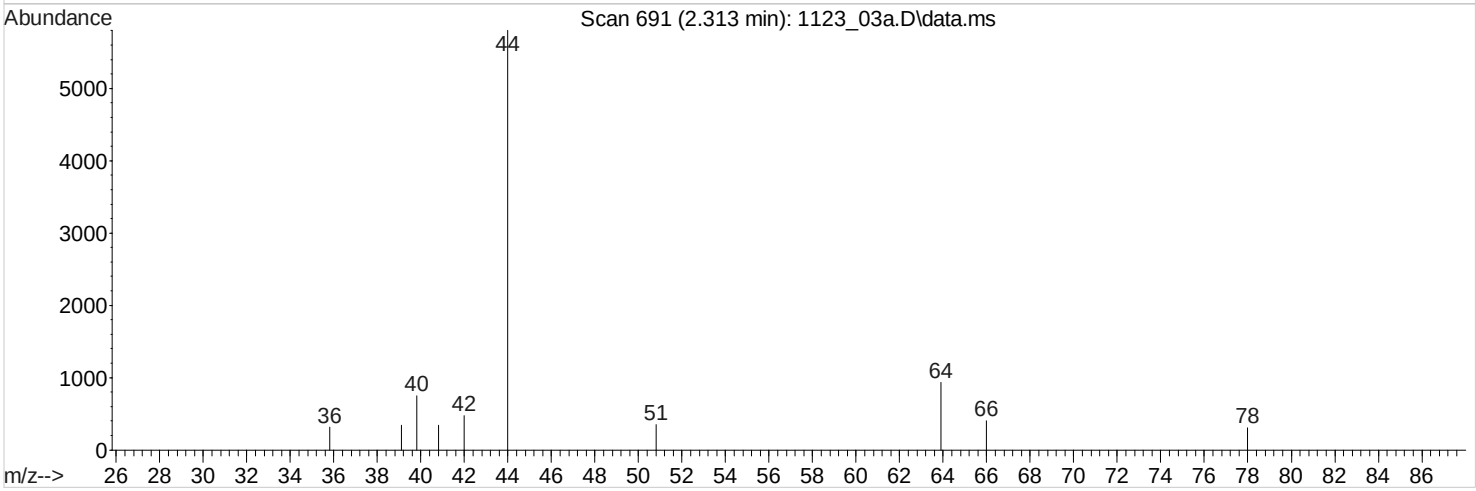


Quantitation Report (Qedit)

```
Data Path : C:\MSDchem\1\data\112314a\
Data File : 1123 03a.D
Acq On    : 24 Nov 2014  12:16 am
Operator  : 644
Sample    : STD VMS .25 ppb 14K20062
Misc      : water IS/SURR14K01013
ALS Vial  : 3   Sample Multiplier: 1
InstName  : VOCMS20

Quant Time: Nov 24 12:29:54 2014
Quant Method : C:\MSDchem\1\methods\V820K23N.M
Quant Title  : Env. Science Corp. 8260B/6210D/624 - VOCMS20
QLast Update : Mon Nov 24 12:26:38 2014
Response via : Initial Calibration
```





TIC: 1123_03a.D\data.ms

(9) CHLOROETHANE (T,M)

2.313min (-2.313) 0.0000000 ppb

Qvalue = 0

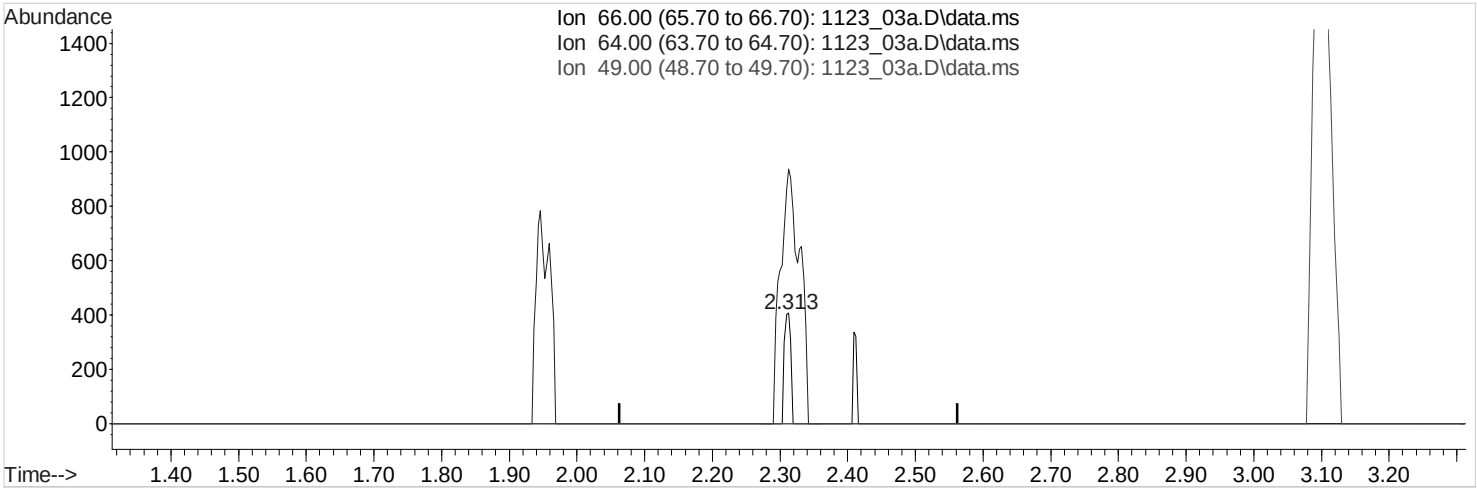
response 0

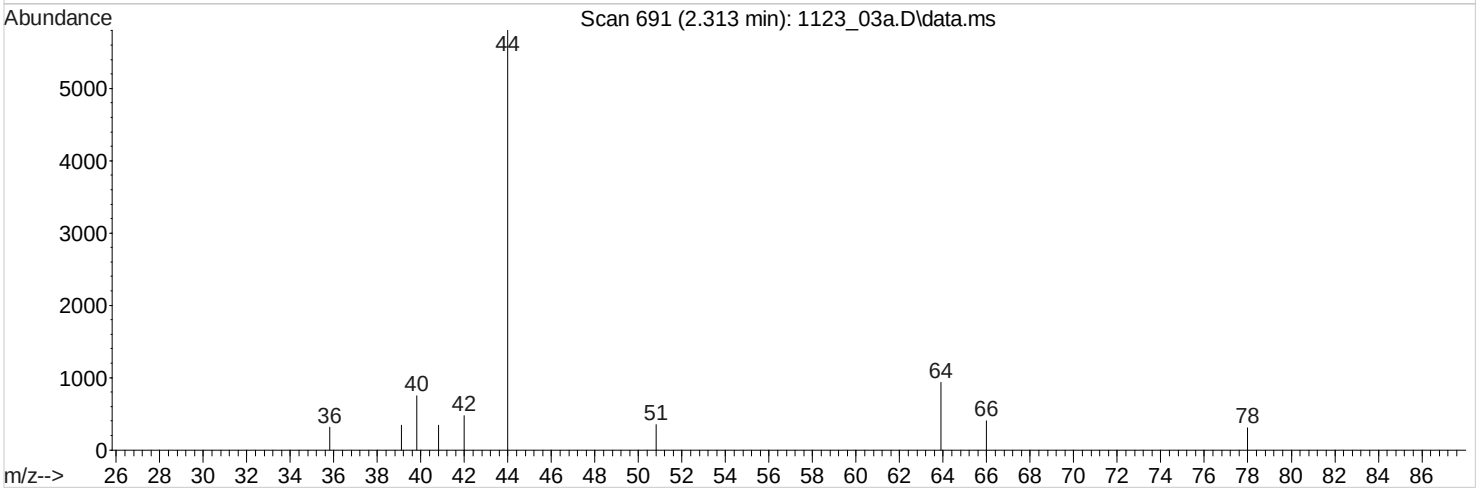
Ion	Exp%	Act%
66.00	100	0.00
64.00	320.20	0.00#
49.00	72.00	0.00#
0.00	0.00	0.00

Quantitation Report (Qedit)

```
Data Path : C:\MSDchem\1\data\112314a\
Data File : 1123 03a.D
Acq On    : 24 Nov 2014  12:16 am
Operator  : 644
Sample    : STD VMS .25 ppb 14K20062
Misc      : water IS/SURR14K01013
ALS Vial  : 3   Sample Multiplier: 1
InstName  : VOCMS20

Quant Time: Nov 24 12:29:54 2014
Quant Method : C:\MSDchem\1\methods\V820K23N.M
Quant Title  : Env. Science Corp. 8260B/6210D/624 - VOCMS20
QLast Update : Mon Nov 24 12:26:38 2014
Response via : Initial Calibration
```





TIC: 1123_03a.D\data.ms

(9) CHLOROETHANE (T,M)

2.313min (0.000) 0.1450501 ppb m

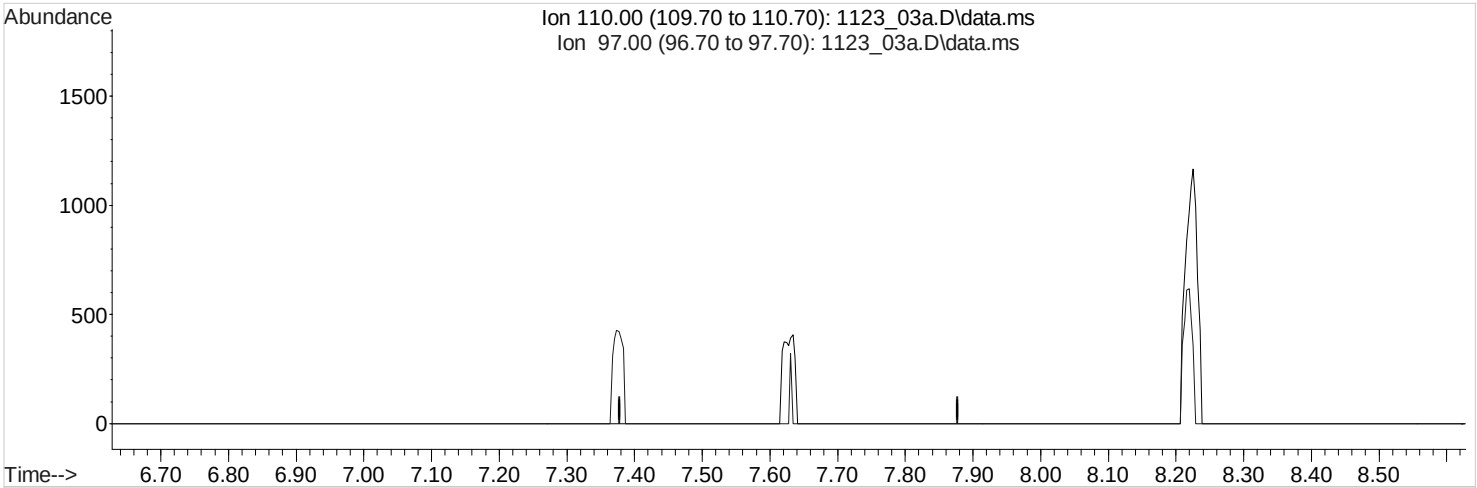
response 274

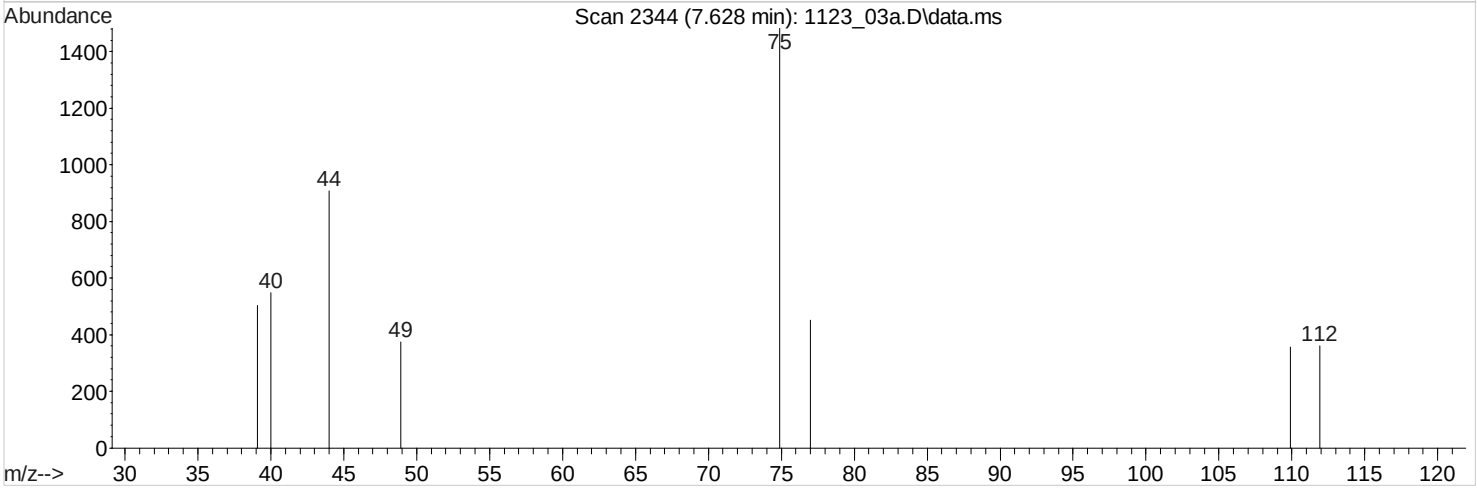
Ion	Exp%	Act%
66.00	100	100
64.00	320.20	0.00#
49.00	72.00	0.00#
0.00	0.00	0.00

Quantitation Report (Qedit)

```
Data Path : C:\MSDchem\1\data\112314a\
Data File : 1123 03a.D
Acq On    : 24 Nov 2014  12:16 am
Operator  : 644
Sample    : STD VMS .25 ppb 14K20062
Misc      : water IS/SURR14K01013
ALS Vial  : 3   Sample Multiplier: 1
InstName  : VOCMS20

Quant Time: Nov 24 12:29:54 2014
Quant Method : C:\MSDchem\1\methods\V820K23N.M
Quant Title  : Env. Science Corp. 8260B/6210D/624 - VOCMS20
QLast Update : Mon Nov 24 12:26:38 2014
Response via : Initial Calibration
```





TIC: 1123_03a.D\data.ms

(71) 1,2,3-TRICHLOROPROPANE (T,M)

7.628min (-7.628) 0.0000000 ppb

Qvalue = 0

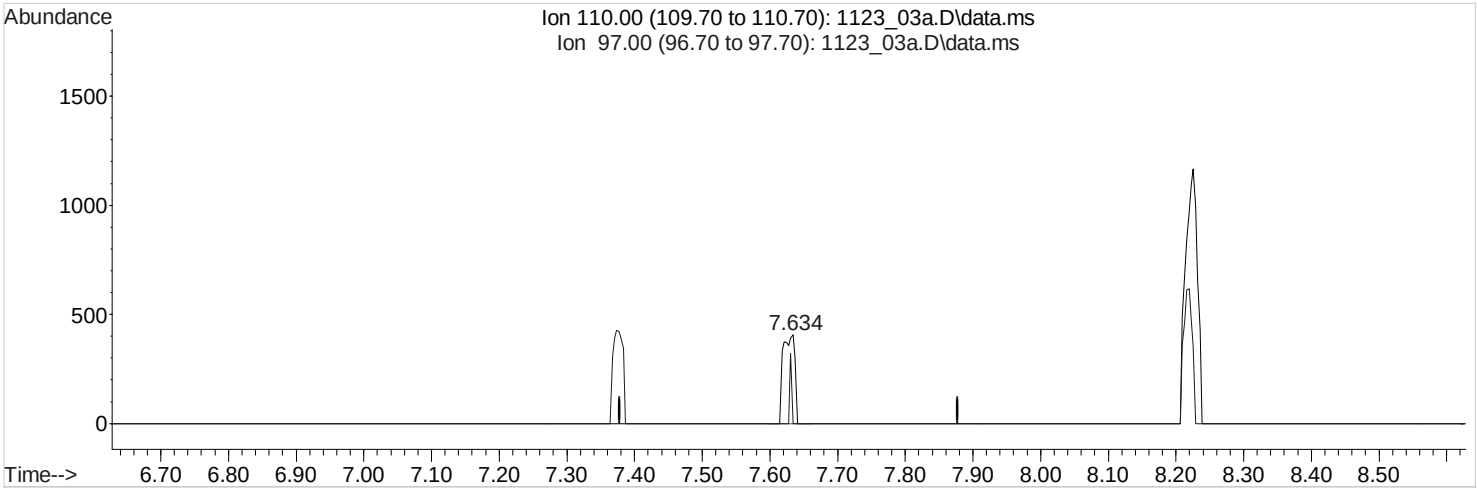
response 0

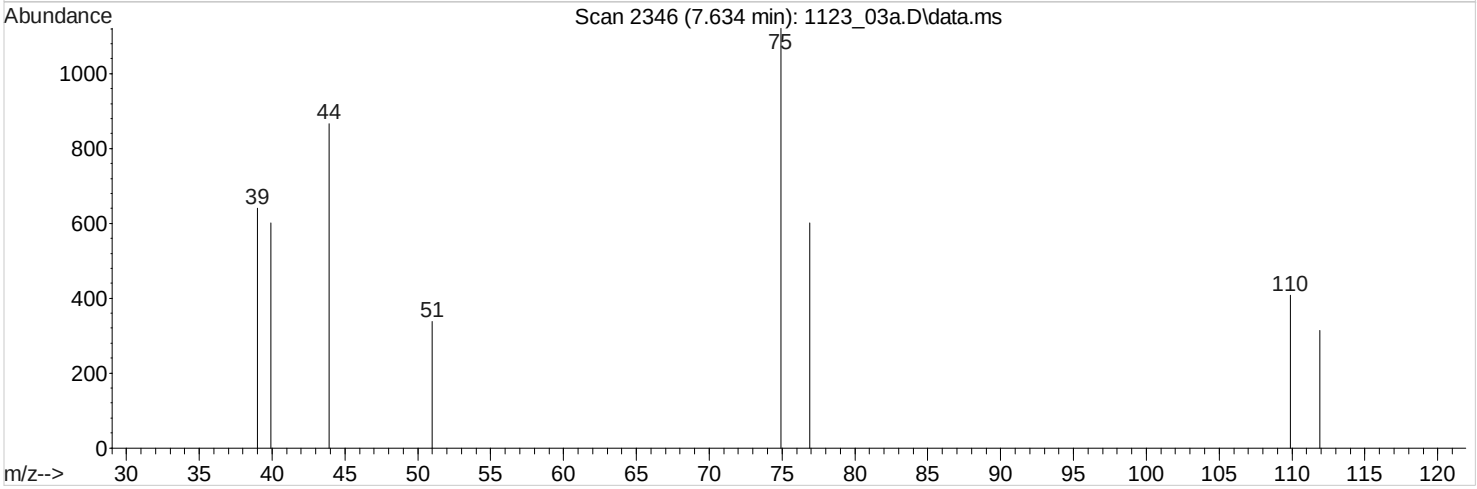
Ion	Exp%	Act%
110.00	100	0.00
97.00	52.00	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

```
Data Path : C:\MSDchem\1\data\112314a\
Data File : 1123 03a.D
Acq On    : 24 Nov 2014  12:16 am
Operator  : 644
Sample    : STD VMS .25 ppb 14K20062
Misc      : water IS/SURR14K01013
ALS Vial  : 3   Sample Multiplier: 1
InstName  : VOCMS20

Quant Time: Nov 24 12:29:54 2014
Quant Method : C:\MSDchem\1\methods\V820K23N.M
Quant Title  : Env. Science Corp. 8260B/6210D/624 - VOCMS20
QLast Update : Mon Nov 24 12:26:38 2014
Response via : Initial Calibration
```





TIC: 1123_03a.D\data.ms

(71) 1,2,3-TRICHLOROPROPANE (T,M)

7.634min (+0.006) 0.1836490 ppb m

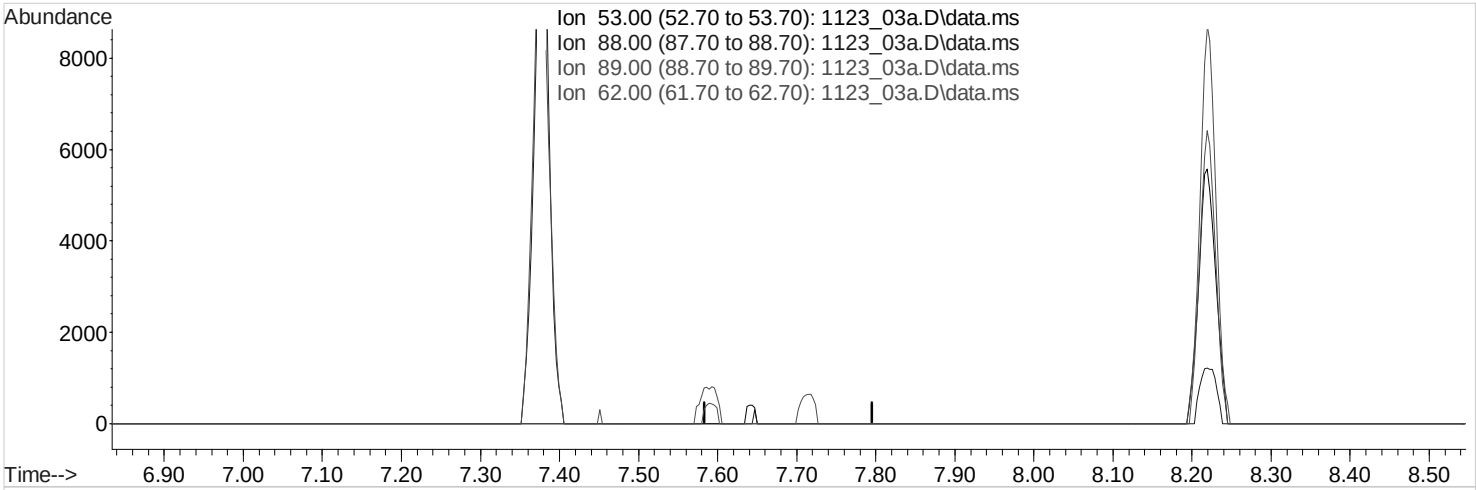
response 489

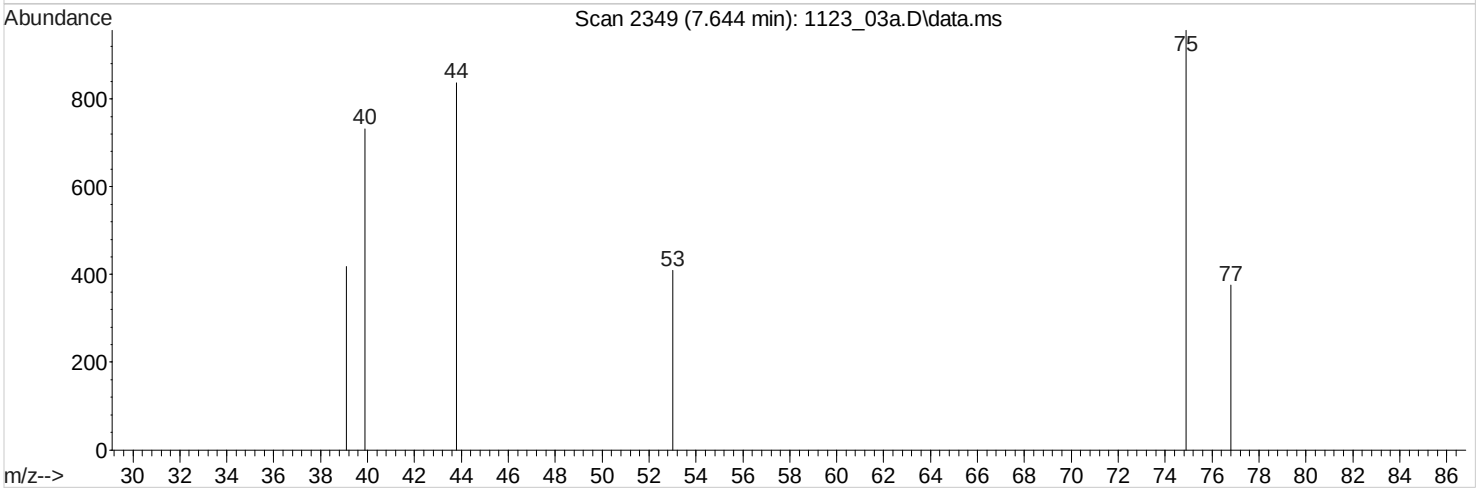
Ion	Exp%	Act%
110.00	100	100
97.00	52.00	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

```
Data Path : C:\MSDchem\1\data\112314a\
Data File : 1123 03a.D
Acq On    : 24 Nov 2014  12:16 am
Operator  : 644
Sample    : STD VMS .25 ppb 14K20062
Misc      : water IS/SURR14K01013
ALS Vial  : 3   Sample Multiplier: 1
InstName  : VOCMS20

Quant Time: Nov 24 12:29:54 2014
Quant Method : C:\MSDchem\1\methods\V820K23N.M
Quant Title  : Env. Science Corp. 8260B/6210D/624 - VOCMS20
QLast Update : Mon Nov 24 12:26:38 2014
Response via : Initial Calibration
```





TIC: 1123_03a.D\data.ms

(72) TRANS-1,4-DICHLORO-2-BUTENE (T,M)

7.644min (-7.644) 0.0000000 ppb

Qvalue = 0

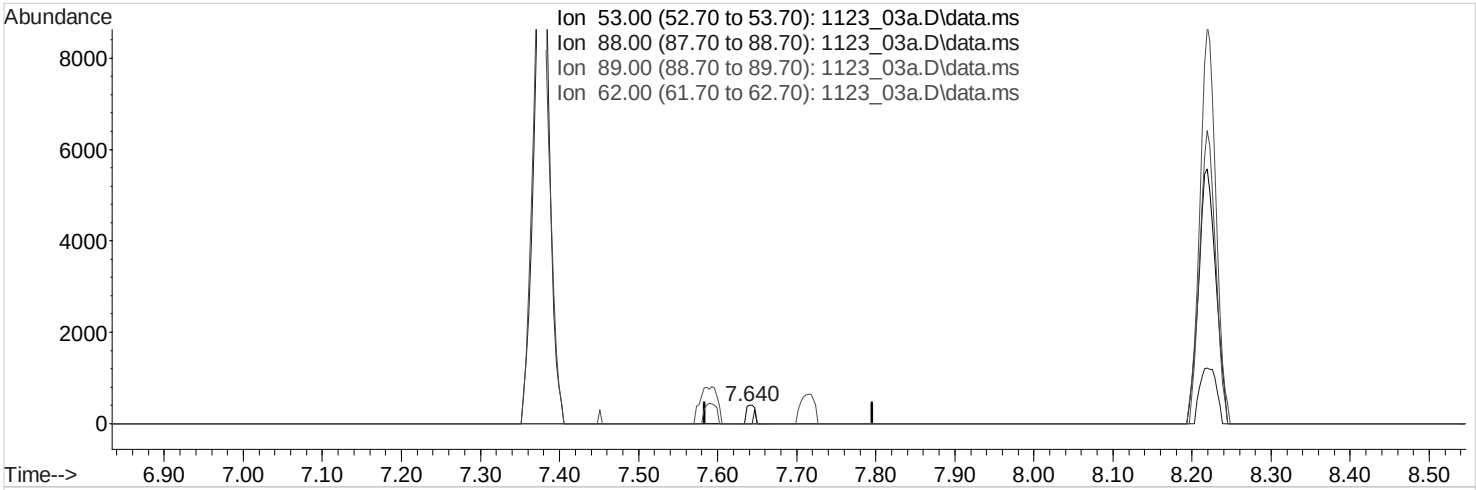
response 0

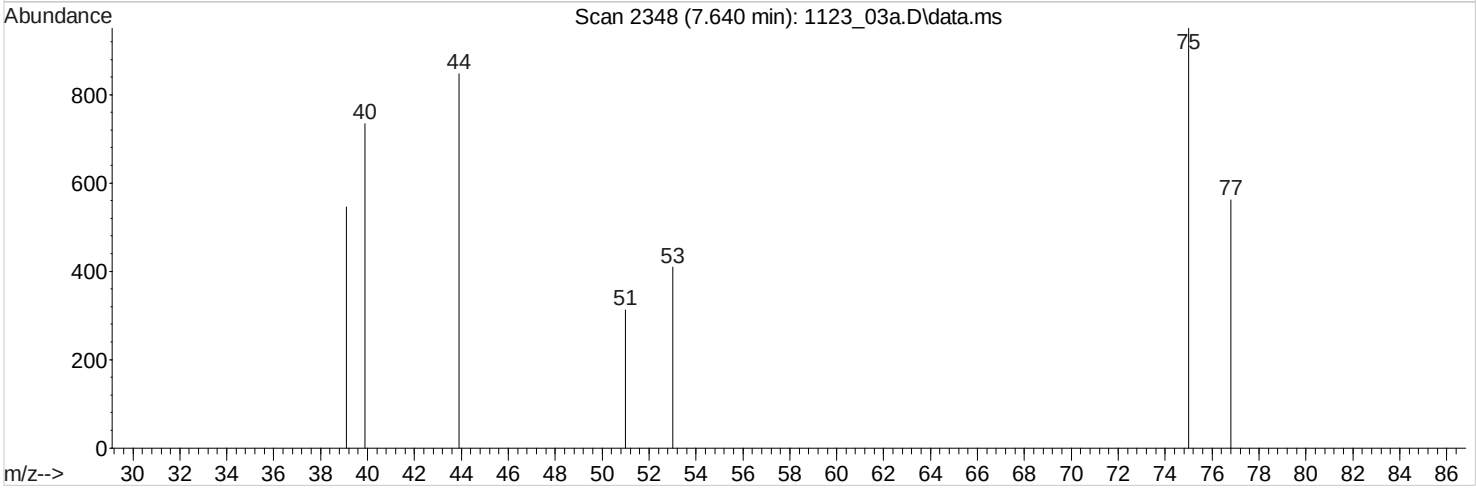
Ion	Exp%	Act%
53.00	100	0.00
88.00	45.20	0.00#
89.00	60.90	0.00#
62.00	57.50	0.00#

Quantitation Report (Qedit)

```
Data Path : C:\MSDchem\1\data\112314a\
Data File : 1123 03a.D
Acq On    : 24 Nov 2014  12:16 am
Operator  : 644
Sample    : STD VMS .25 ppb 14K20062
Misc      : water IS/SURR14K01013
ALS Vial  : 3   Sample Multiplier: 1
InstName  : VOCMS20

Quant Time: Nov 24 12:29:54 2014
Quant Method : C:\MSDchem\1\methods\V820K23N.M
Quant Title  : Env. Science Corp. 8260B/6210D/624 - VOCMS20
QLast Update : Mon Nov 24 12:26:38 2014
Response via : Initial Calibration
```





TIC: 1123_03a.D\data.ms

(72) TRANS-1,4-DICHLORO-2-BUTENE (T,M)

7.640min (-0.003) 0.1071746 ppb m

response 300

Ion	Exp%	Act%
53.00	100	100
88.00	45.20	0.00#
89.00	60.90	0.00#
62.00	57.50	0.00#

Quantitation Report (QT Reviewed)

Data Path : C:\MSDchem\1\data\112314a\
Data File : 1123 04a.D
Acq On : 24 Nov 2014 12:34 am
Operator : 644
Sample : STD VMS .5 ppb 14K20062
Misc : water IS/SURR14K01013
ALS Vial : 4 Sample Multiplier: 1
InstName : VOCMS20

Quant Time: Nov 24 12:33:48 2014
Quant Method : C:\MSDchem\1\methods\V820K23N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS20
QLast Update : Mon Nov 24 12:26:38 2014
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 8260-PENTAFLUOROBENZENE	4.341	168	464951	40.0000000 ppb	0.00
41) 8260-1,4-DIFLUOROBENZENE	4.673	114	896061	40.0000000 ppb	0.00
53) 8260-2-BROMO-1-CHLOROP...	5.840	79	148530	40.0000000 ppb	0.00
84) 8260-1,4-DICHLOROBENZE...	8.219	152	371023	40.0000000 ppb	0.00
96) AP9-PENTAFLUOROBENZENE	0.000	168	0m	40.0000000 ppb	-4.34
114) AP9-1,4-DIFLUOROBENZENE	0.000	114	0m	40.0000000 ppb	-4.67
122) AP9-2-BROMO-1-CHLOROPR...	0.000	79	0m	40.0000000 ppb	-5.84
128) AP9-1,4-DICHLOROBENZEN...	0.000	152	0m	40.0000000 ppb	-8.22
System Monitoring Compounds					
33) DIBROMOFLUOROMETHANE	4.110	111	260245	41.5331681 ppb	0.00
Spiked Amount 40.000	Range 78 - 121		Recovery = 103.83%		
46) a,a,a-Trifluorotoluene	5.036	146	470438	41.8595949 ppb	0.00
Spiked Amount 40.000	Range 85 - 114		Recovery = 104.65%		
50) TOLUENE-D8	5.499	98	1149470	40.1208374 ppb	0.00
Spiked Amount 40.000	Range 89 - 111		Recovery = 100.30%		
68) 4-BROMOFLUOROBENZENE	7.377	95	392012	39.9860467 ppb	0.00
Spiked Amount 40.000	Range 71 - 126		Recovery = 99.97%		
Target Compounds					Qvalue
2) TPH (GC/MS) LOW FRACTION	4.096	TIC	-7785850m	Below Cal	
3) PROPENE	1.673	41	2041	1.0053596 ppb	88
4) DICHLORODIFLUOROMETHANE	1.724	85	4347	0.5898339 ppb	94
5) CHLOROMETHANE	1.885	50	6722	0.5554102 ppb #	92
6) VINYL CHLORIDE	1.956	62	5708	0.5515761 ppb #	88
7) 1,3-BUTADIENE	1.968	39	4686	0.6040236 ppb #	76
8) BROMOMETHANE	2.226	94	3699	0.6050644 ppb #	88
9) CHLOROETHANE	2.316	66	705	0.3746136 ppb #	27
10) TRICHLOROFLUOROMETHANE	2.406	101	5472	0.5775735 ppb #	90
11) DICHLOROFLUOROMETHANE	2.441	67	8211	0.6045431 ppb	94
12) ETHYL ETHER	2.599	59	4167	0.5253110 ppb #	83
13) ACROLEIN	2.959	56	3411	2.6204679 ppb	100
14) 1,1-DICHLOROETHENE	2.740	61	5880	0.4965113 ppb #	78
15) 1,1,2-TRICHLOROTRIFLUO...	2.759	101	3970	0.6189954 ppb #	90
16) ACETONE	3.129	43	9812	4.3305210 ppb	90
17) IODOMETHANE	2.846	142	31780	2.7677865 ppb	96
18) CARBON DISULFIDE	2.776	76	15827	0.5695642 ppb #	77
19) METHYLENE CHLORIDE	3.103	84	5202	0.5338880 ppb	98
20) ACRYLONITRILE	3.592	53	7956	2.4213750 ppb	99
21) n-Hexane	3.219	56	4925	0.5701502 ppb	84
22) TRANS-1,2-DICHLOROETHENE	3.194	96	4667	0.5531053 ppb #	94
23) METHYL TERT-BUTYL ETHER	3.245	73	12994	0.5238416 ppb #	100
24) 1,1-DICHLOROETHANE	3.560	63	8705	0.5140599 ppb	100
25) VINYL ACETATE	3.669	43	35924	2.5521265 ppb	99
26) DI-ISOPROPYL ETHER	3.444	45	17273	0.4818803 ppb	88
27) 2,2-Dichloropropane	3.927	77	4087	0.4989452 ppb	98
28) CIS-1,2-DICHLOROETHENE	3.862	96	5040	0.5185224 ppb	97
29) 2-BUTANONE (MEK)	4.177	72	2603	2.6243669 ppb	89
30) BROMOCHLOROMETHANE	3.981	130	2664	0.5234215 ppb	97
31) TETRAHYDROFURAN	4.107	42	1509	0.5407398 ppb #	58
32) CHLOROFORM	4.001	83	8690	0.5677660 ppb #	98
34) 1,1,1-TRICHLOROETHANE	4.132	97	5360	0.5054423 ppb #	84
35) CARBON TETRACHLORIDE	4.094	119	4585	0.5366914 ppb	89

Quantitation Report (QT Reviewed)

Data Path : C:\MSDchem\1\data\112314a\
Data File : 1123 04a.D
Acq On : 24 Nov 2014 12:34 am
Operator : 644
Sample : STD VMS .5 ppb 14K20062
Misc : water IS/SURR14K01013
ALS Vial : 4 Sample Multiplier: 1
InstName : VOCMS20

Quant Time: Nov 24 12:33:48 2014
Quant Method : C:\MSDchem\1\methods\V820K23N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS20
QLast Update : Mon Nov 24 12:26:38 2014
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units		Dev(Min)
36) 1,1-Dichloropropene	4.200	75	6441	0.5480415 ppb		95
37) 2,2,4-TRIMETHYLPENTANE	4.229	57	19810	0.5568732 ppb		94
38) HEPTANE	4.271	43	8045	0.5048222 ppb	#	96
39) BENZENE	4.345	78	21658	0.5623617 ppb	#	56
40) 1,2-DICHLOROETHANE	4.460	62	5726	0.5150770 ppb	#	72
42) TRICHLOROETHENE	4.666	130	4234	0.5184227 ppb		95
43) 1,2-DICHLOROPROPANE	4.988	62	3674	0.4916510 ppb		93
44) DIBROMOMETHANE	4.930	93	2486	0.5063822 ppb		94
45) BROMODICHLOROMETHANE	5.010	83	6216	0.5198827 ppb	#	95
47) 2-CHLOROETHYL VINYL ETHER	5.322	63	6209	1.7038036 ppb	#	95
48) CIS-1,3-DICHLOROPROPENE	5.383	75	7419	0.4650019 ppb	#	90
49) 4-METHYL-2-PENTANONE (...	5.750	58	7130	2.1188913 ppb		90
51) TOLUENE	5.534	91	25759	0.6446542 ppb		97
52) TRANS-1,3-DICHLOROPROPENE	5.792	110	1525	0.4684282 ppb	#	90
54) 1,1,2-TRICHLOROETHANE	5.898	97	4134	0.5775071 ppb		93
55) TETRACHLOROETHENE	5.785	164	2786	0.5266119 ppb		92
56) 1,3-Dichloropropane	6.084	76	7696	0.5548554 ppb		95
57) 2-HEXANONE	6.293	58	6026	1.9291050 ppb		89
58) CHLORODIBROMOMETHANE	6.026	129	3670	0.5170919 ppb		96
59) 1,2-DIBROMOETHANE	6.203	107	3409	0.4990822 ppb		95
60) CHLOROBENZENE	6.537	112	12468	0.5267495 ppb		100
61) 1,1,1,2-TETRACHLOROETHANE	6.570	133	3639	0.5151740 ppb	#	84
62) ETHYLBENZENE	6.531	106	5690	0.4439458 ppb		83
63) M&P-XYLENE	6.627	106	14948	0.9315210 ppb		98
64) O-XYLENE	6.936	106	7289	0.4744872 ppb		95
65) STYRENE	6.972	104	9491	0.3640692 ppb		99
66) Bromoform	7.017	173	1717	0.4390690 ppb		90
67) Isopropylbenzene	7.148	105	16281	0.4130751 ppb		97
69) Bromobenzene	7.467	77	10859	0.5464602 ppb		97
70) 1,1,2,2-TETRACHLOROETHANE	7.508	83	4730	0.4944389 ppb	#	95
71) 1,2,3-TRICHLOROPROPANE	7.631	110	1320	0.4897752 ppb	#	73
72) TRANS-1,4-DICHLORO-2-B...	7.647	53	1330	0.4694242 ppb	#	47
73) n-Propylbenzene	7.451	91	25886	0.5145566 ppb		99
74) 4-ETHYLTOLUENE	7.528	105	19272	0.4750911 ppb		98
75) 2-Chlorotoluene	7.592	126	4953	0.5374375 ppb		82
76) 4-Chlorotoluene	7.711	91	14961	0.4713563 ppb		95
77) 1,3,5-Trimethylbenzene	7.586	105	15271	0.4407892 ppb		99
78) tert-Butylbenzene	7.833	119	12244	0.4493687 ppb		99
79) 1,2,4-Trimethylbenzene	7.888	105	14771	0.4116056 ppb		95
80) sec-Butylbenzene	7.968	105	19629	0.4442065 ppb		96
81) 1,3-DICHLOROBENZENE	8.168	146	9173	0.5149861 ppb		97
82) p-Isopropyltoluene	8.071	119	14489	0.4047878 ppb		97
83) DICYCLOPENTADIENE	8.078	66	18799	0.4138273 ppb	#	94
85) 1,4-DICHLOROBENZENE	8.232	146	10224	0.5670797 ppb	#	1
86) 1,2,3-TRIMETHYLBENZENE	8.232	105	17336	0.4675114 ppb		94
87) 1,2-DICHLOROBENZENE	8.566	146	9084	0.5572295 ppb		100
88) n-Butylbenzene	8.402	91	17462	0.4859662 ppb		97
89) 1,2-Dibromo-3-chloropr...	9.203	157	476m	0.3128666 ppb		
90) 1,2,4-Trichlorobenzene	9.753	180	4861	0.4848738 ppb		94
91) HEXACHLORO-1,3-BUTADIENE	9.711	225	2722	0.5434955 ppb		92
92) Naphthalene	10.032	128	11815	0.4627119 ppb		97
93) 1,2,3-Trichlorobenzene	10.184	180	4333	0.4630407 ppb		96
94) 1-Methylnaphthalene	10.897	142	5966	0.4280014 ppb	#	91
95) 2-Methylnaphthalene	11.032	142	5348	0.4222881 ppb		90

Quantitation Report (QT Reviewed)

Data Path : C:\MSDchem\1\data\112314a\
Data File : 1123 04a.D
Acq On : 24 Nov 2014 12:34 am
Operator : 644
Sample : STD VMS .5 ppb 14K20062
Misc : water IS/SURR14K01013
ALS Vial : 4 Sample Multiplier: 1
InstName : VOCMS20

Quant Time: Nov 24 12:33:48 2014
Quant Method : C:\MSDchem\1\methods\V820K23N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS20
QLast Update : Mon Nov 24 12:26:38 2014
Response via : Initial Calibration

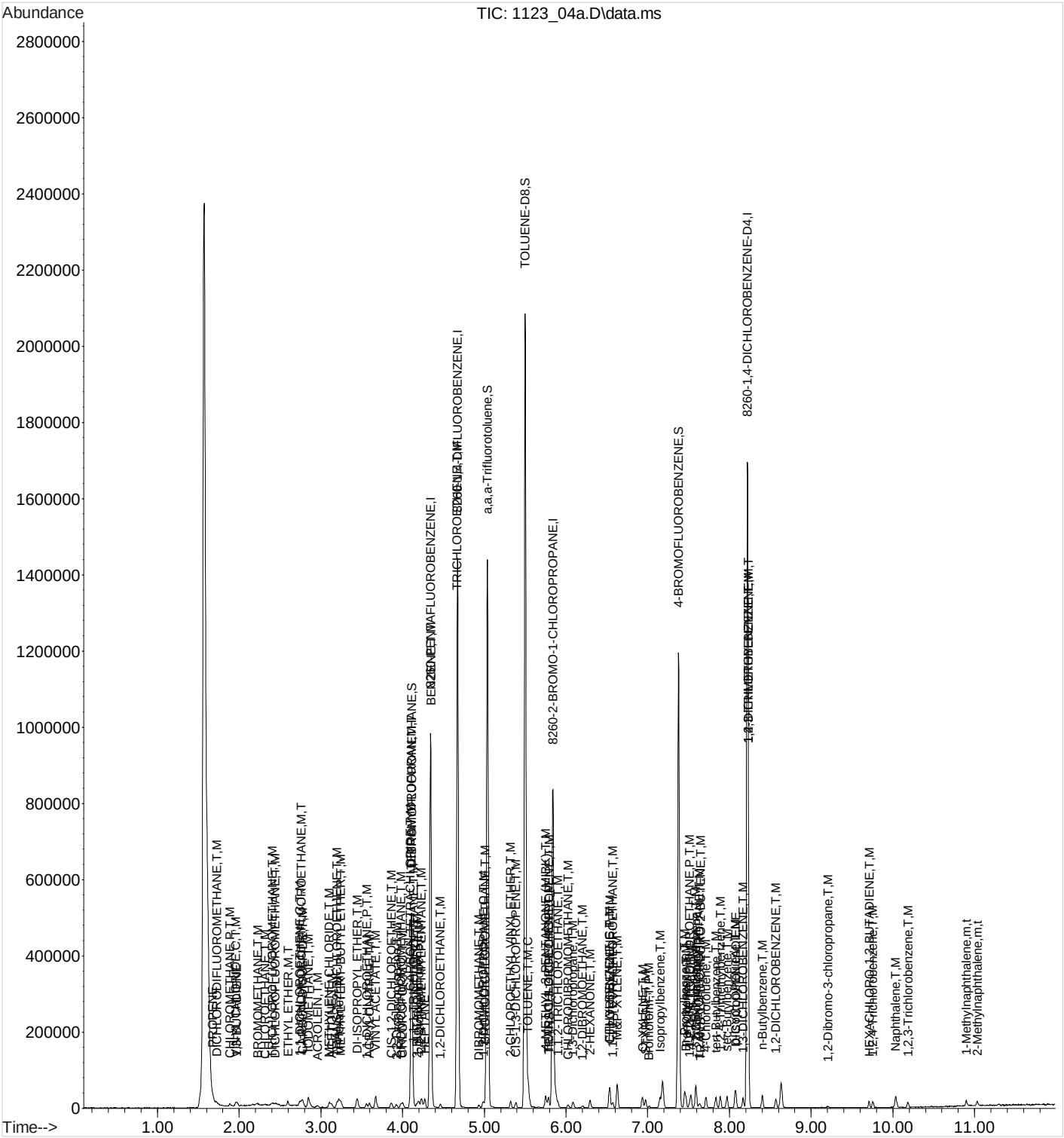
	Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
97)	ETHANOL	0.000		0	N.D.	
98)	Bromoethane	0.000		0	N.D.	
99)	2-PROPANOL	0.000		0	N.D.	
100)	Methyl Acetate	0.000		0	N.D.	d
101)	ACETONITRILE	0.000		0	N.D.	d
102)	ALLYL CHLORIDE	0.000		0	N.D.	
103)	tert-BUTYL ALCOHOL	0.000		0	N.D.	
104)	chloroprene	0.000		0	N.D.	d
105)	ETHYL TERT-BUTYL ETHER	0.000		0	N.D.	
106)	PROPIONITRILE	0.000		0	N.D.	
107)	Ethyl Acetate	0.000		0	N.D.	
108)	METHACRYLONITRILE	0.000		0	N.D.	d
109)	Cyclohexane	0.000		0	N.D.	
110)	tert-butyl formate	0.000		0	N.D.	
111)	ISOBUTANOL	0.000		0	N.D.	d
112)	t-Amyl Alcohol	0.000		0	N.D.	
113)	TERT-AMYL METHYL ETHER	0.000		0	N.D.	d
115)	N-BUTANOL	0.000		0	N.D.	
116)	Methyl Cyclohexane	0.000		0	N.D.	d
117)	2-nitropropane	0.000		0	N.D.	d
118)	METHYL METHACRYLATE	0.000		0	N.D.	d
119)	1,4-DIOXANE	0.000		0	N.D.	d
120)	n-octane	0.000		0	N.D.	
121)	3,3-DIMETHYL-1-BUTANOL	0.000		0	N.D.	d
123)	ETHYL METHACRYLATE	0.000		0	N.D.	
124)	CIS-1,4-DICHLORO-2-BUTENE	0.000		0	N.D.	
125)	Cyclohexanone	0.000		0	N.D.	
126)	PENTACHLOROETHANE	0.000		0	N.D.	d
127)	Hexachloroethane	0.000		0	N.D.	

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\MSDchem\1\data\112314a\
Data File : 1123 04a.D
Acq On : 24 Nov 2014 12:34 am
Operator : 644
Sample : STD VMS .5 ppb 14K20062
Misc : water IS/SURR14K01013
ALS Vial : 4 Sample Multiplier: 1
InstName : VOCMS20

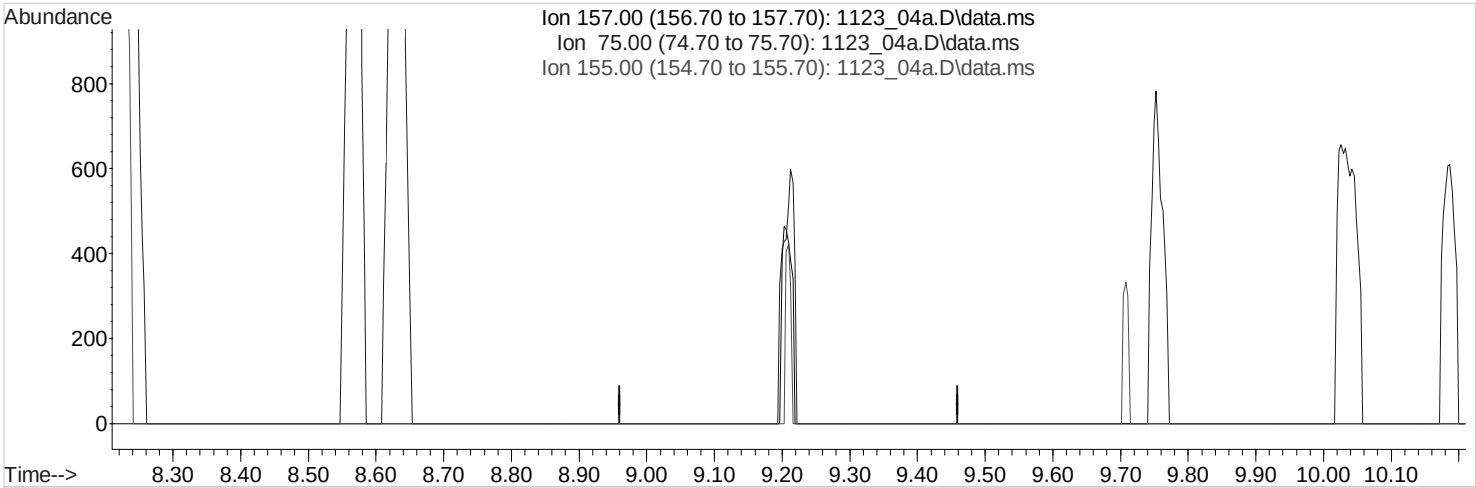
Quant Time: Nov 24 12:33:48 2014
Quant Method : C:\MSDchem\1\methods\V820K23N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS20
QLast Update : Mon Nov 24 12:26:38 2014
Response via : Initial Calibration

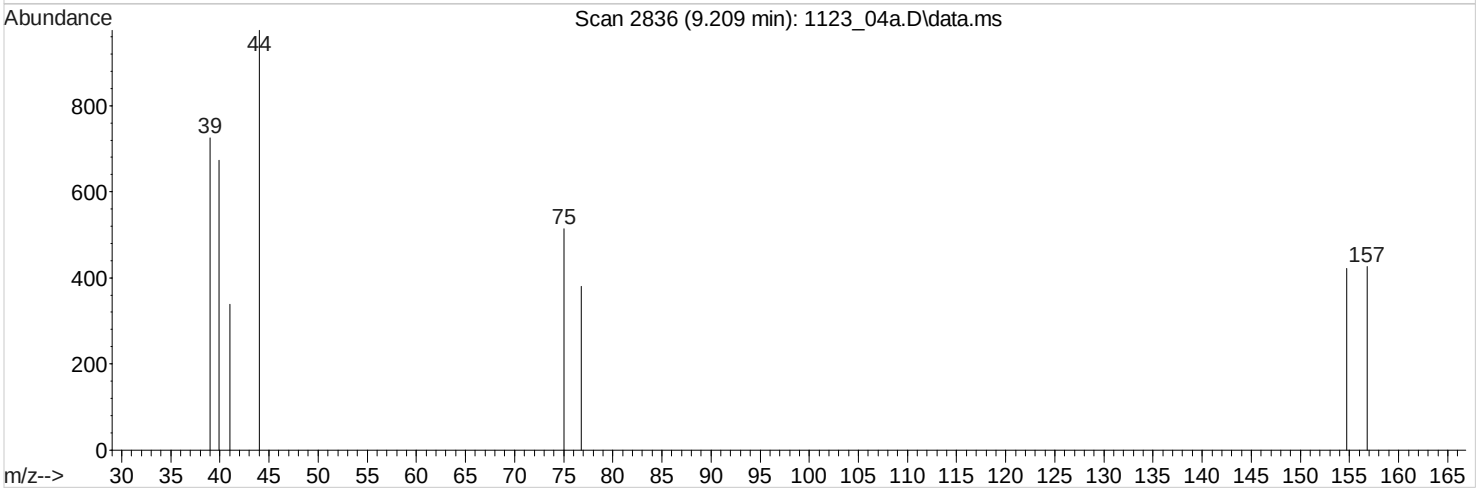


Quantitation Report (Qedit)

```
Data Path : C:\MSDchem\1\data\112314a\
Data File : 1123 04a.D
Acq On    : 24 Nov 2014  12:34 am
Operator  : 644
Sample    : STD VMS .5 ppb 14K20062
Misc      : water IS/SURR14K01013
ALS Vial  : 4   Sample Multiplier: 1
InstName  : VOCMS20

Quant Time: Nov 24 12:30:01 2014
Quant Method : C:\MSDchem\1\methods\V820K23N.M
Quant Title  : Env. Science Corp. 8260B/6210D/624 - VOCMS20
QLast Update : Mon Nov 24 12:26:38 2014
Response via : Initial Calibration
```





TIC: 1123_04a.D\data.ms

(89) 1,2-Dibromo-3-chloropropane (T,M)

9.210min (-9.210) 0.0000000 ppb

Qvalue = 0

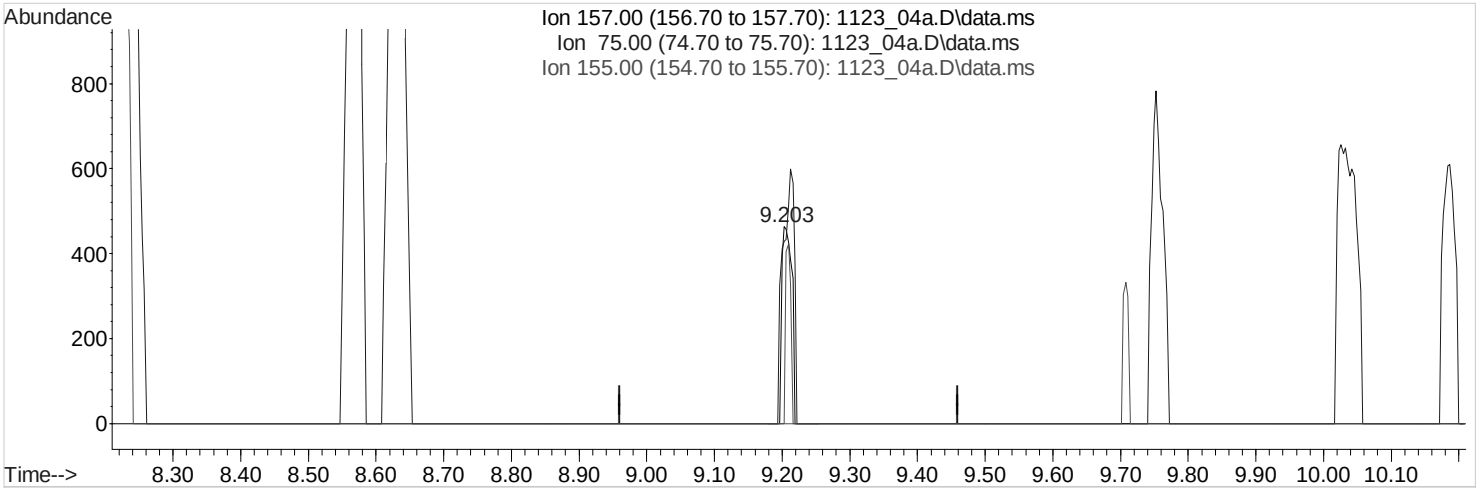
response 0

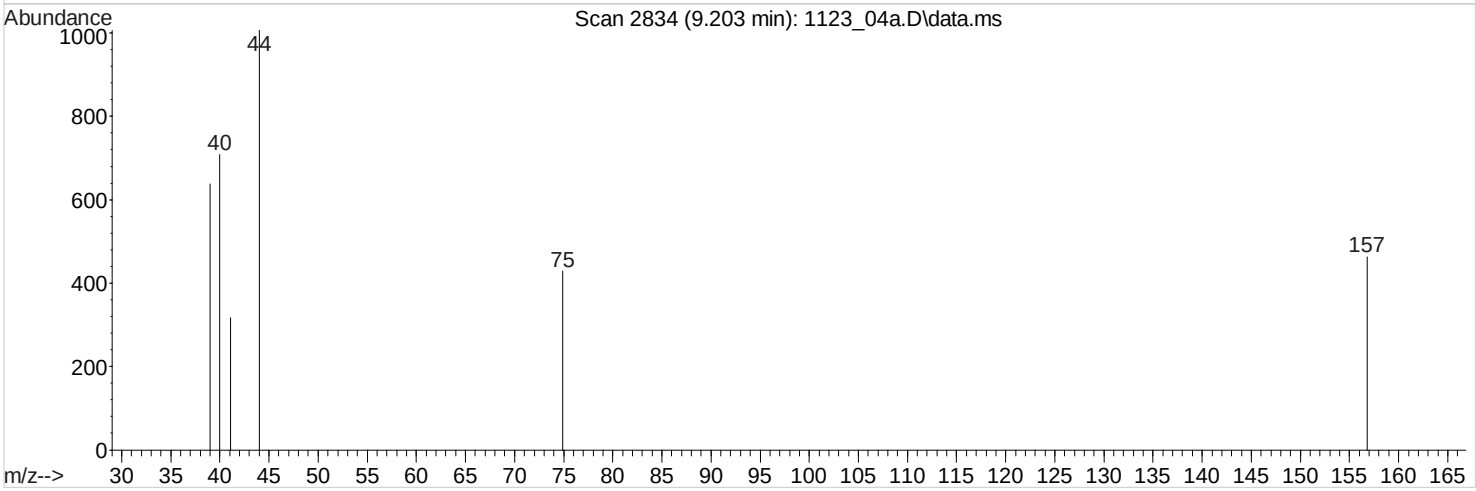
Ion	Exp%	Act%
157.00	100	0.00
75.00	107.10	0.00#
155.00	73.10	0.00#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\MSDchem\1\data\112314a\
Data File : 1123 04a.D
Acq On : 24 Nov 2014 12:34 am
Operator : 644
Sample : STD VMS .5 ppb 14K20062
Misc : water IS/SURR14K01013
ALS Vial : 4 Sample Multiplier: 1
InstName : VOCMS20

Quant Time: Nov 24 12:30:01 2014
Quant Method : C:\MSDchem\1\methods\V820K23N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS20
QLast Update : Mon Nov 24 12:26:38 2014
Response via : Initial Calibration





TIC: 1123_04a.D\data.ms

(89) 1,2-Dibromo-3-chloropropane (T,M)

9.203min (-0.007) 0.3128666 ppb m

response 476

Ion	Exp%	Act%
157.00	100	100
75.00	107.10	0.00#
155.00	73.10	0.00#
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : C:\MSDchem\1\data\112314a\
Data File : 1123 05a.D
Acq On : 24 Nov 2014 12:53 am
Operator : 644
Sample : STD VMS 1 ppb 14K20062
Misc : water IS/SURR14K01013
ALS Vial : 5 Sample Multiplier: 1
InstName : VOCMS20

Quant Time: Nov 24 12:34:54 2014
Quant Method : C:\MSDchem\1\methods\V820K23N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS20
QLast Update : Mon Nov 24 12:26:38 2014
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 8260-PENTAFLUOROBENZENE	4.341	168	471207	40.0000000 ppb	0.00
41) 8260-1,4-DIFLUOROBENZENE	4.673	114	904890	40.0000000 ppb	0.00
53) 8260-2-BROMO-1-CHLOROP...	5.840	79	151381	40.0000000 ppb	0.00
84) 8260-1,4-DICHLOROBENZE...	8.219	152	377783	40.0000000 ppb	0.00
96) AP9-PENTAFLUOROBENZENE	0.000	168	0m	40.0000000 ppb	-4.34
114) AP9-1,4-DIFLUOROBENZENE	0.000	114	0m	40.0000000 ppb	-4.67
122) AP9-2-BROMO-1-CHLOROPR...	0.000	79	0m	40.0000000 ppb	-5.84
128) AP9-1,4-DICHLOROBENZEN...	0.000	152	0m	40.0000000 ppb	-8.22
System Monitoring Compounds					
33) DIBROMOFLUOROMETHANE	4.107	111	268935	42.3501979 ppb	0.00
Spiked Amount 40.000	Range 78 - 121		Recovery = 105.88%		
46) a,a,a-Trifluorotoluene	5.036	146	490360	43.2065360 ppb	0.00
Spiked Amount 40.000	Range 85 - 114		Recovery = 108.02%		
50) TOLUENE-D8	5.499	98	1199612	41.4624476 ppb	0.00
Spiked Amount 40.000	Range 89 - 111		Recovery = 103.66%		
68) 4-BROMOFLUOROBENZENE	7.377	95	405686	40.6014869 ppb	0.00
Spiked Amount 40.000	Range 71 - 126		Recovery = 101.50%		
Target Compounds					Qvalue
2) TPH (GC/MS) LOW FRACTION	4.096	TIC	-7835611m	Below Cal	
3) PROPENE	1.673	41	3389	1.6471967 ppb	97
4) DICHLORODIFLUOROMETHANE	1.721	85	7504	1.0046814 ppb	96
5) CHLOROMETHANE	1.885	50	13410	1.0933006 ppb	97
6) VINYL CHLORIDE	1.956	62	11402	1.0871713 ppb #	97
7) 1,3-BUTADIENE	1.972	39	9345	1.1885744 ppb	83
8) BROMOMETHANE	2.223	94	6915	1.1161046 ppb	94
9) CHLOROETHANE	2.316	66	2115	1.1089200 ppb	83
10) TRICHLOROFLUOROMETHANE	2.403	101	9904	1.0314953 ppb #	98
11) DICHLOROFLUOROMETHANE	2.444	67	15406	1.1192228 ppb	97
12) ETHYL ETHER	2.595	59	9855	1.2258719 ppb	90
13) ACROLEIN	2.959	56	6517	4.9401518 ppb	97
14) 1,1-DICHLOROETHENE	2.740	61	13096	1.0911538 ppb	100
15) 1,1,2-TRICHLOROTRIFLUO...	2.766	101	6886	1.0593986 ppb	97
16) ACETONE	3.129	43	15711	6.8419814 ppb	98
17) IODOMETHANE	2.846	142	64330	5.5282504 ppb	99
18) CARBON DISULFIDE	2.772	76	31541	1.1199922 ppb #	81
19) METHYLENE CHLORIDE	3.100	84	11228	1.1370450 ppb	95
20) ACRYLONITRILE	3.592	53	16483	4.9499293 ppb	95
21) n-Hexane	3.216	56	9665	1.1040286 ppb	95
22) TRANS-1,2-DICHLOROETHENE	3.197	96	9933	1.1615714 ppb	90
23) METHYL TERT-BUTYL ETHER	3.242	73	25694	1.0220786 ppb #	100
24) 1,1-DICHLOROETHANE	3.557	63	18418	1.0732055 ppb	97
25) VINYL ACETATE	3.669	43	77203	5.4118672 ppb	98
26) DI-ISOPROPYL ETHER	3.444	45	36255	0.9980098 ppb	96
27) 2,2-Dichloropropane	3.923	77	8706	1.0487266 ppb	97
28) CIS-1,2-DICHLOROETHENE	3.859	96	10241	1.0396205 ppb	97
29) 2-BUTANONE (MEK)	4.171	72	4949	4.9233792 ppb	91
30) BROMOCHLOROMETHANE	3.978	130	5686	1.1023502 ppb	96
31) TETRAHYDROFURAN	4.103	42	3335	1.1792080 ppb #	84
32) CHLOROFORM	4.001	83	16932	1.0915743 ppb	97
34) 1,1,1-TRICHLOROETHANE	4.132	97	11999	1.1164705 ppb	98
35) CARBON TETRACHLORIDE	4.094	119	9203	1.0629435 ppb	92

Quantitation Report (QT Reviewed)

Data Path : C:\MSDchem\1\data\112314a\
Data File : 1123 05a.D
Acq On : 24 Nov 2014 12:53 am
Operator : 644
Sample : STD VMS 1 ppb 14K20062
Misc : water IS/SURR14K01013
ALS Vial : 5 Sample Multiplier: 1
InstName : VOCMS20

Quant Time: Nov 24 12:34:54 2014
Quant Method : C:\MSDchem\1\methods\V820K23N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS20
QLast Update : Mon Nov 24 12:26:38 2014
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units		Dev(Min)
36) 1,1-Dichloropropene	4.197	75	11268	0.9460247 ppb		96
37) 2,2,4-TRIMETHYLPENTANE	4.229	57	35307	0.9793279 ppb		93
38) HEPTANE	4.267	43	16381	1.0142577 ppb	#	94
39) BENZENE	4.345	78	43508	1.1147101 ppb	#	77
40) 1,2-DICHLOROETHANE	4.460	62	12433	1.1035504 ppb		99
42) TRICHLOROETHENE	4.666	130	8876	1.0761982 ppb		95
43) 1,2-DICHLOROPROPANE	4.984	62	8329	1.1037036 ppb		93
44) DIBROMOMETHANE	4.930	93	5153	1.0393917 ppb		97
45) BROMODICHLOROMETHANE	5.007	83	12863	1.0653159 ppb	#	96
47) 2-CHLOROETHYL VINYL ETHER	5.319	63	12666	3.4417487 ppb		93
48) CIS-1,3-DICHLOROPROPENE	5.386	75	15379	0.9545072 ppb		97
49) 4-METHYL-2-PENTANONE (...	5.750	58	15082	4.4383328 ppb		99
51) TOLUENE	5.531	91	46356	1.1488029 ppb		100
52) TRANS-1,3-DICHLOROPROPENE	5.788	110	3587	1.0910542 ppb		89
54) 1,1,2-TRICHLOROETHANE	5.898	97	7653	1.0489660 ppb		94
55) TETRACHLOROETHENE	5.782	164	5807	1.0769715 ppb		98
56) 1,3-Dichloropropane	6.084	76	15671	1.1085475 ppb		97
57) 2-HEXANONE	6.290	58	12273	3.8549635 ppb		83
58) CHLORODIBROMOMETHANE	6.026	129	6949	0.9606535 ppb		96
59) 1,2-DIBROMOETHANE	6.200	107	7028	1.0095310 ppb		98
60) CHLOROBENZENE	6.537	112	23512	0.9746298 ppb		95
61) 1,1,1,2-TETRACHLOROETHANE	6.570	133	7283	1.0116378 ppb	#	95
62) ETHYLBENZENE	6.531	106	11857	0.9076853 ppb		95
63) M&P-XYLENE	6.624	106	30231	1.8484379 ppb		99
64) O-XYLENE	6.933	106	13434	0.8580344 ppb		86
65) STYRENE	6.972	104	18956	0.7134466 ppb		98
66) Bromoform	7.017	173	4225	1.0600638 ppb	#	85
67) Isopropylbenzene	7.148	105	36190	0.9009058 ppb		99
69) Bromobenzene	7.467	77	21261	1.0497725 ppb		98
70) 1,1,2,2-TETRACHLOROETHANE	7.505	83	10331	1.0595871 ppb		98
71) 1,2,3-TRICHLOROPROPANE	7.627	110	2932	1.0674060 ppb		96
72) TRANS-1,4-DICHLORO-2-B...	7.644	53	2599	0.9000423 ppb	#	78
73) n-Propylbenzene	7.451	91	48570	0.9472816 ppb	#	93
74) 4-ETHYLTOLUENE	7.528	105	40691	0.9842179 ppb		99
75) 2-Chlorotoluene	7.589	126	9425	1.0034225 ppb		97
76) 4-Chlorotoluene	7.711	91	31070	0.9604455 ppb		99
77) 1,3,5-Trimethylbenzene	7.586	105	32434	0.9185584 ppb		99
78) tert-Butylbenzene	7.833	119	24965	0.8989879 ppb		97
79) 1,2,4-Trimethylbenzene	7.888	105	30871	0.8440436 ppb		92
80) sec-Butylbenzene	7.968	105	39514	0.8773655 ppb		98
81) 1,3-DICHLOROBENZENE	8.164	146	18510	1.0196082 ppb		97
82) p-Isopropyltoluene	8.071	119	29974	0.8216305 ppb		99
83) DICYCLOPENTADIENE	8.078	66	39863	0.8609882 ppb		99
85) 1,4-DICHLOROBENZENE	8.232	146	20256	1.1034061 ppb	#	1
86) 1,2,3-TRIMETHYLBENZENE	8.232	105	38217	1.0121814 ppb		100
87) 1,2-DICHLOROBENZENE	8.566	146	16679	1.0048135 ppb		95
88) n-Butylbenzene	8.402	91	32989	0.9016535 ppb		98
89) 1,2-Dibromo-3-chloropr...	9.213	157	1433	0.9250323 ppb	#	71
90) 1,2,4-Trichlorobenzene	9.753	180	9714	0.9516113 ppb		97
91) HEXACHLORO-1,3-BUTADIENE	9.708	225	5147	1.0093003 ppb		92
92) Naphthalene	10.033	128	22662	0.8716329 ppb		97
93) 1,2,3-Trichlorobenzene	10.184	180	8925	0.9366927 ppb		97
94) 1-Methylnaphthalene	10.901	142	11761	0.8286375 ppb		99
95) 2-Methylnaphthalene	11.032	142	9922	0.7694405 ppb		89

Quantitation Report (QT Reviewed)

Data Path : C:\MSDchem\1\data\112314a\
Data File : 1123 05a.D
Acq On : 24 Nov 2014 12:53 am
Operator : 644
Sample : STD VMS 1 ppb 14K20062
Misc : water IS/SURR14K01013
ALS Vial : 5 Sample Multiplier: 1
InstName : VOCMS20

Quant Time: Nov 24 12:34:54 2014
Quant Method : C:\MSDchem\1\methods\V820K23N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS20
QLast Update : Mon Nov 24 12:26:38 2014
Response via : Initial Calibration

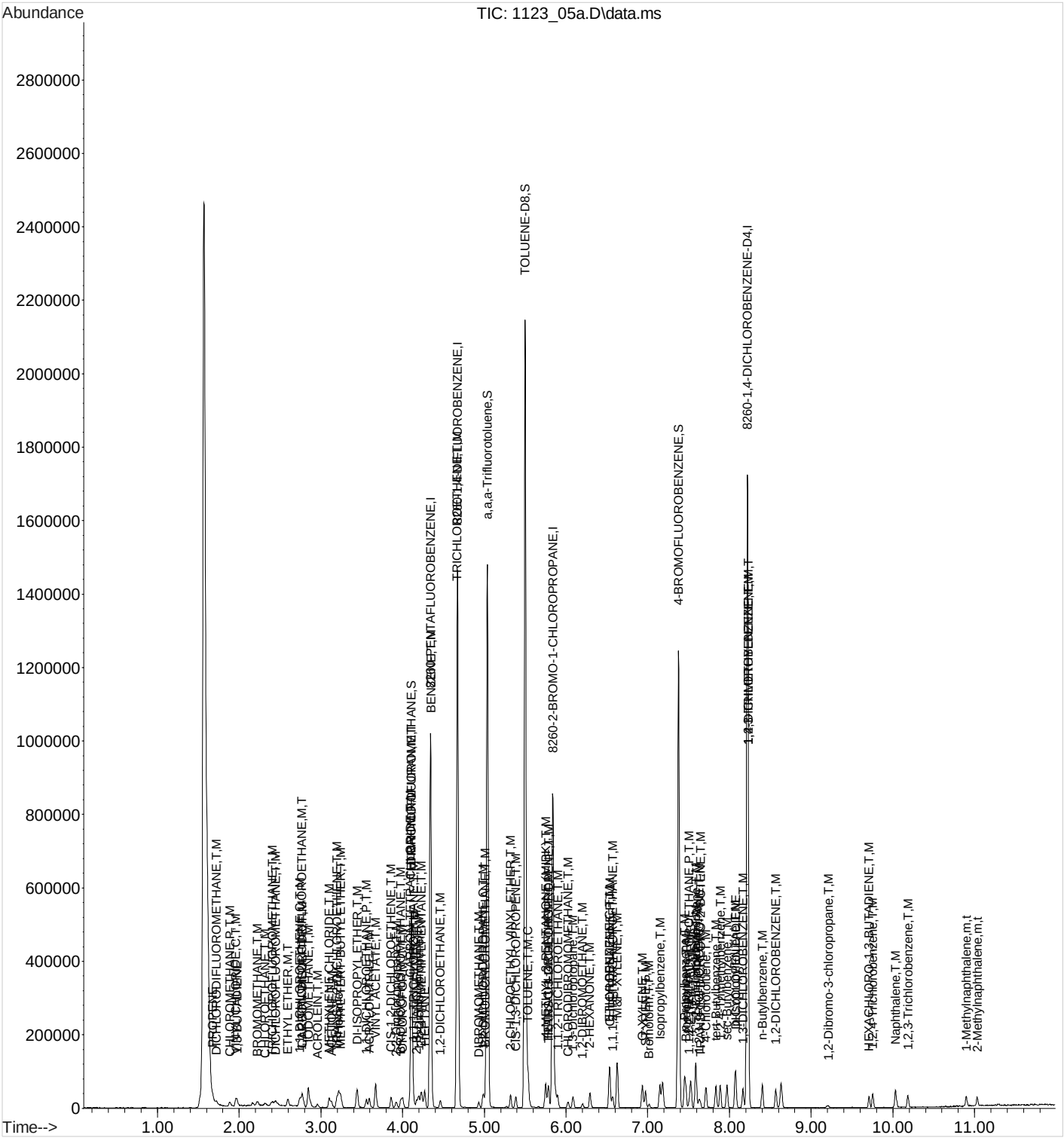
	Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
97)	ETHANOL	0.000		0	N.D.	d
98)	Bromoethane	0.000		0	N.D.	
99)	2-PROPANOL	0.000		0	N.D.	
100)	Methyl Acetate	0.000		0	N.D.	d
101)	ACETONITRILE	0.000		0	N.D.	d
102)	ALLYL CHLORIDE	0.000		0	N.D.	
103)	tert-BUTYL ALCOHOL	0.000		0	N.D.	
104)	chloroprene	0.000		0	N.D.	d
105)	ETHYL TERT-BUTYL ETHER	0.000		0	N.D.	
106)	PROPIONITRILE	0.000		0	N.D.	
107)	Ethyl Acetate	0.000		0	N.D.	d
108)	METHACRYLONITRILE	0.000		0	N.D.	d
109)	Cyclohexane	0.000		0	N.D.	
110)	tert-butyl formate	0.000		0	N.D.	
111)	ISOBUTANOL	0.000		0	N.D.	d
112)	t-Amyl Alcohol	0.000		0	N.D.	
113)	TERT-AMYL METHYL ETHER	0.000		0	N.D.	d
115)	N-BUTANOL	0.000		0	N.D.	
116)	Methyl Cyclohexane	0.000		0	N.D.	d
117)	2-nitropropane	0.000		0	N.D.	d
118)	METHYL METHACRYLATE	0.000		0	N.D.	d
119)	1,4-DIOXANE	0.000		0	N.D.	d
120)	n-octane	0.000		0	N.D.	
121)	3,3-DIMETHYL-1-BUTANOL	0.000		0	N.D.	d
123)	ETHYL METHACRYLATE	0.000		0	N.D.	
124)	CIS-1,4-DICHLORO-2-BUTENE	0.000		0	N.D.	
125)	Cyclohexanone	0.000		0	N.D.	d
126)	PENTACHLOROETHANE	0.000		0	N.D.	d
127)	Hexachloroethane	0.000		0	N.D.	d

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\MSDchem\1\data\112314a\
Data File : 1123 05a.D
Acq On : 24 Nov 2014 12:53 am
Operator : 644
Sample : STD VMS 1 ppb 14K20062
Misc : water IS/SURR14K01013
ALS Vial : 5 Sample Multiplier: 1
InstName : VOCMS20

Quant Time: Nov 24 12:34:54 2014
Quant Method : C:\MSDchem\1\methods\V820K23N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS20
QLast Update : Mon Nov 24 12:26:38 2014
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\MSDchem\1\data\112314a\
Data File : 1123 06a.D
Acq On : 24 Nov 2014 1:11 am
Operator : 644
Sample : STD VMS 2 ppb 14K20062
Misc : water IS/SURR14K01013
ALS Vial : 6 Sample Multiplier: 1
InstName : VOCMS20

Quant Time: Nov 24 12:35:58 2014
Quant Method : C:\MSDchem\1\methods\V820K23N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS20
QLast Update : Mon Nov 24 12:26:38 2014
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 8260-PENTAFLUOROBENZENE	4.341	168	473446	40.0000000 ppb	0.00
41) 8260-1,4-DIFLUOROBENZENE	4.673	114	885371	40.0000000 ppb	0.00
53) 8260-2-BROMO-1-CHLOROP...	5.837	79	150639	40.0000000 ppb	0.00
84) 8260-1,4-DICHLOROBENZE...	8.219	152	370383	40.0000000 ppb	0.00
96) AP9-PENTAFLUOROBENZENE	0.000	168	0m	40.0000000 ppb	-4.34
114) AP9-1,4-DIFLUOROBENZENE	0.000	114	0m	40.0000000 ppb	-4.67
122) AP9-2-BROMO-1-CHLOROPR...	0.000	79	0m	40.0000000 ppb	-5.84
128) AP9-1,4-DICHLOROBENZEN...	0.000	152	0m	40.0000000 ppb	-8.22
System Monitoring Compounds					
33) DIBROMOFLUOROMETHANE	4.107	111	270662	42.4205882 ppb	0.00
Spiked Amount 40.000	Range 78 - 121		Recovery = 106.05%		
46) a,a,a-Trifluorotoluene	5.036	146	490485	44.1703295 ppb	0.00
Spiked Amount 40.000	Range 85 - 114		Recovery = 110.43%		
50) TOLUENE-D8	5.499	98	1209539	42.7272072 ppb	0.00
Spiked Amount 40.000	Range 89 - 111		Recovery = 106.82%		
68) 4-BROMOFLUOROBENZENE	7.377	95	415973	41.8360821 ppb	0.00
Spiked Amount 40.000	Range 71 - 126		Recovery = 104.59%		
Target Compounds					Qvalue
2) TPH (GC/MS) LOW FRACTION	4.096	TIC	-7719559m	Below Cal	
3) PROPENE	1.670	41	5594	2.7060614 ppb	94
4) DICHLORODIFLUOROMETHANE	1.721	85	15720	2.0947362 ppb	96
5) CHLOROMETHANE	1.879	50	26524	2.1522420 ppb	96
6) VINYL CHLORIDE	1.953	62	23181	2.1998364 ppb	97
7) 1,3-BUTADIENE	1.969	39	16914	2.1410888 ppb	93
8) BROMOMETHANE	2.216	94	14052	2.2573149 ppb	99
9) CHLOROETHANE	2.313	66	4581	2.3905147 ppb	89
10) TRICHLOROFLUOROMETHANE	2.403	101	20676	2.1432084 ppb	96
11) DICHLOROFLUOROMETHANE	2.438	67	29533	2.1353816 ppb	98
12) ETHYL ETHER	2.592	59	16004	1.9813367 ppb	92
13) ACROLEIN	2.959	56	12402	9.3567619 ppb	90
14) 1,1-DICHLOROETHENE	2.740	61	26625	2.2078939 ppb	98
15) 1,1,2-TRICHLOROTRIFLUO...	2.763	101	13518	2.0698844 ppb	96
16) ACETONE	3.129	43	27026	11.7138893 ppb	97
17) IODOMETHANE	2.846	142	122033	10.4374094 ppb	100
18) CARBON DISULFIDE	2.776	76	60479	2.1373981 ppb #	89
19) METHYLENE CHLORIDE	3.104	84	21117	2.1283779 ppb	96
20) ACRYLONITRILE	3.592	53	31261	9.3434418 ppb	99
21) n-Hexane	3.219	56	18303	2.0808560 ppb	96
22) TRANS-1,2-DICHLOROETHENE	3.194	96	18393	2.1407173 ppb	97
23) METHYL TERT-BUTYL ETHER	3.245	73	47085	1.8641311 ppb #	100
24) 1,1-DICHLOROETHANE	3.557	63	36170	2.0976364 ppb	98
25) VINYL ACETATE	3.669	43	138127	9.6367993 ppb	100
26) DI-ISOPROPYL ETHER	3.441	45	71428	1.9569362 ppb	97
27) 2,2-Dichloropropane	3.924	77	19072	2.2865523 ppb	97
28) CIS-1,2-DICHLOROETHENE	3.859	96	19515	1.9717066 ppb	92
29) 2-BUTANONE (MEK)	4.174	72	9001	8.9120553 ppb	88
30) BROMOCHLOROMETHANE	3.978	130	10979	2.1184432 ppb	99
31) TETRAHYDROFURAN	4.104	42	5537	1.9485447 ppb	95
32) CHLOROFORM	4.001	83	31870	2.0448827 ppb	98
34) 1,1,1-TRICHLOROETHANE	4.133	97	23155	2.1443135 ppb	96
35) CARBON TETRACHLORIDE	4.097	119	18642	2.1429624 ppb	96

Quantitation Report (QT Reviewed)

Data Path : C:\MSDchem\1\data\112314a\
Data File : 1123 06a.D
Acq On : 24 Nov 2014 1:11 am
Operator : 644
Sample : STD VMS 2 ppb 14K20062
Misc : water IS/SURR14K01013
ALS Vial : 6 Sample Multiplier: 1
InstName : VOCMS20

Quant Time: Nov 24 12:35:58 2014
Quant Method : C:\MSDchem\1\methods\V820K23N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS20
QLast Update : Mon Nov 24 12:26:38 2014
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units		Dev(Min)
36) 1,1-Dichloropropene	4.197	75	23649	1.9761035 ppb		99
37) 2,2,4-TRIMETHYLPENTANE	4.229	57	71064	1.9618158 ppb		94
38) HEPTANE	4.268	43	28961	1.7846897 ppb	#	97
39) BENZENE	4.345	78	83101	2.1190458 ppb	#	90
40) 1,2-DICHLOROETHANE	4.460	62	22104	1.9526680 ppb		96
42) TRICHLOROETHENE	4.666	130	16970	2.1029420 ppb		97
43) 1,2-DICHLOROPROPANE	4.985	62	15415	2.0877265 ppb		94
44) DIBROMOMETHANE	4.933	93	10516	2.1679047 ppb		94
45) BROMODICHLOROMETHANE	5.007	83	23799	2.0144911 ppb	#	93
47) 2-CHLOROETHYL VINYL ETHER	5.322	63	25186	6.9947044 ppb		94
48) CIS-1,3-DICHLOROPROPENE	5.383	75	29672	1.8822115 ppb		99
49) 4-METHYL-2-PENTANONE (...	5.750	58	28110	8.4545846 ppb		98
51) TOLUENE	5.531	91	86170	2.1825598 ppb		100
52) TRANS-1,3-DICHLOROPROPENE	5.785	110	5191	1.6137508 ppb	#	93
54) 1,1,2-TRICHLOROETHANE	5.898	97	15040	2.0716266 ppb		97
55) TETRACHLOROETHENE	5.782	164	11208	2.0888847 ppb		97
56) 1,3-Dichloropropane	6.084	76	28024	1.9921483 ppb		93
57) 2-HEXANONE	6.293	58	24795	7.8265002 ppb		91
58) CHLORODIBROMOMETHANE	6.023	129	13735	1.9081261 ppb		99
59) 1,2-DIBROMOETHANE	6.203	107	13714	1.9796391 ppb		98
60) CHLOROBENZENE	6.538	112	47384	1.9738574 ppb		99
61) 1,1,1,2-TETRACHLOROETHANE	6.570	133	14318	1.9986237 ppb	#	98
62) ETHYLBENZENE	6.531	106	22652	1.7426130 ppb		93
63) M&P-XYLENE	6.624	106	60047	3.6895859 ppb		98
64) O-XYLENE	6.933	106	27800	1.7843419 ppb		95
65) STYRENE	6.972	104	39250	1.4845280 ppb		96
66) Bromoform	7.017	173	7340	1.8506969 ppb		97
67) Isopropylbenzene	7.148	105	69914	1.7489963 ppb		99
69) Bromobenzene	7.467	77	41785	2.0733177 ppb		97
70) 1,1,2,2-TETRACHLOROETHANE	7.509	83	19362	1.9956229 ppb		99
71) 1,2,3-TRICHLOROPROPANE	7.628	110	5432	1.9872814 ppb		96
72) TRANS-1,4-DICHLORO-2-B...	7.644	53	5549	1.9311024 ppb		96
73) n-Propylbenzene	7.451	91	98064	1.9220051 ppb		98
74) 4-ETHYLTOLUENE	7.528	105	75084	1.8250477 ppb		96
75) 2-Chlorotoluene	7.589	126	18619	1.9920158 ppb		97
76) 4-Chlorotoluene	7.711	91	62247	1.9336766 ppb		99
77) 1,3,5-Trimethylbenzene	7.586	105	65271	1.8576354 ppb		96
78) tert-Butylbenzene	7.833	119	49721	1.7992690 ppb		98
79) 1,2,4-Trimethylbenzene	7.888	105	65198	1.7913580 ppb		98
80) sec-Butylbenzene	7.968	105	81050	1.8084917 ppb		100
81) 1,3-DICHLOROBENZENE	8.164	146	34680	1.9197290 ppb		97
82) p-Isopropyltoluene	8.071	119	64967	1.7896109 ppb		98
83) DICYCLOPENTADIENE	8.078	66	83401	1.8102244 ppb		100
85) 1,4-DICHLOROBENZENE	8.232	146	37428	2.0795515 ppb	#	1
86) 1,2,3-TRIMETHYLBENZENE	8.232	105	74048	2.0003521 ppb		97
87) 1,2-DICHLOROBENZENE	8.570	146	34052	2.0924227 ppb		94
88) n-Butylbenzene	8.402	91	66746	1.8607461 ppb		98
89) 1,2-Dibromo-3-chloropr...	9.213	157	2358	1.5525509 ppb	#	71
90) 1,2,4-Trichlorobenzene	9.753	180	17213	1.7199248 ppb		95
91) HEXACHLORO-1,3-BUTADIENE	9.708	225	9769	1.9539241 ppb		96
92) Naphthalene	10.033	128	42000	1.6476920 ppb		98
93) 1,2,3-Trichlorobenzene	10.184	180	16707	1.7884580 ppb		97
94) 1-Methylnaphthalene	10.898	142	20937	1.5046176 ppb		98
95) 2-Methylnaphthalene	11.033	142	17955	1.4202101 ppb		98

Quantitation Report (QT Reviewed)

Data Path : C:\MSDchem\1\data\112314a\
Data File : 1123 06a.D
Acq On : 24 Nov 2014 1:11 am
Operator : 644
Sample : STD VMS 2 ppb 14K20062
Misc : water IS/SURR14K01013
ALS Vial : 6 Sample Multiplier: 1
InstName : VOCMS20

Quant Time: Nov 24 12:35:58 2014
Quant Method : C:\MSDchem\1\methods\V820K23N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS20
QLast Update : Mon Nov 24 12:26:38 2014
Response via : Initial Calibration

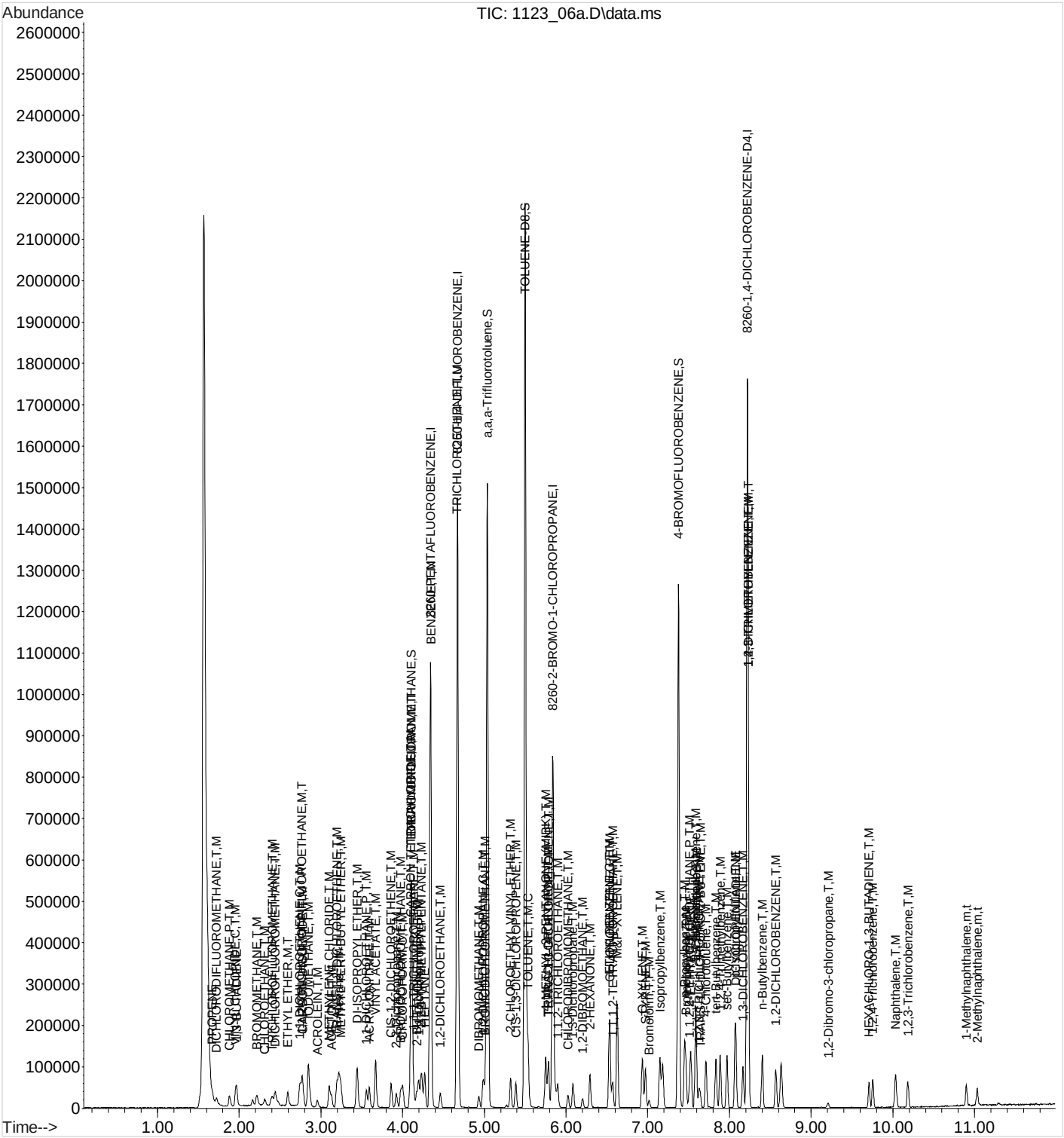
	Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
97)	ETHANOL	0.000		0	N.D.	
98)	Bromoethane	0.000		0	N.D.	d
99)	2-PROPANOL	0.000		0	N.D.	
100)	Methyl Acetate	0.000		0	N.D.	d
101)	ACETONITRILE	0.000		0	N.D.	d
102)	ALLYL CHLORIDE	0.000		0	N.D.	
103)	tert-BUTYL ALCOHOL	0.000		0	N.D.	
104)	chloroprene	0.000		0	N.D.	d
105)	ETHYL TERT-BUTYL ETHER	0.000		0	N.D.	
106)	PROPIONITRILE	0.000		0	N.D.	
107)	Ethyl Acetate	0.000		0	N.D.	d
108)	METHACRYLONITRILE	0.000		0	N.D.	d
109)	Cyclohexane	0.000		0	N.D.	d
110)	tert-butyl formate	0.000		0	N.D.	
111)	ISOBUTANOL	0.000		0	N.D.	d
112)	t-Amyl Alcohol	0.000		0	N.D.	
113)	TERT-AMYL METHYL ETHER	0.000		0	N.D.	d
115)	N-BUTANOL	0.000		0	N.D.	
116)	Methyl Cyclohexane	0.000		0	N.D.	d
117)	2-nitropropane	0.000		0	N.D.	d
118)	METHYL METHACRYLATE	0.000		0	N.D.	d
119)	1,4-DIOXANE	0.000		0	N.D.	d
120)	n-octane	0.000		0	N.D.	
121)	3,3-DIMETHYL-1-BUTANOL	0.000		0	N.D.	d
123)	ETHYL METHACRYLATE	0.000		0	N.D.	
124)	CIS-1,4-DICHLORO-2-BUTENE	0.000		0	N.D.	d
125)	Cyclohexanone	0.000		0	N.D.	d
126)	PENTACHLOROETHANE	0.000		0	N.D.	d
127)	Hexachloroethane	0.000		0	N.D.	d

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\MSDchem\1\data\112314a\
Data File : 1123 06a.D
Acq On : 24 Nov 2014 1:11 am
Operator : 644
Sample : STD VMS 2 ppb 14K20062
Misc : water IS/SURR14K01013
ALS Vial : 6 Sample Multiplier: 1
InstName : VOCMS20

Quant Time: Nov 24 12:35:58 2014
Quant Method : C:\MSDchem\1\methods\V820K23N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS20
QLast Update : Mon Nov 24 12:26:38 2014
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\MSDchem\1\data\112314a\
Data File : 1123 07a.D
Acq On : 24 Nov 2014 1:30 am
Operator : 644
Sample : STD VMS 5 ppb 14K20062
Misc : water IS/SURR14K01013
ALS Vial : 7 Sample Multiplier: 1
InstName : VOCMS20

Quant Time: Nov 24 12:37:03 2014
Quant Method : C:\MSDchem\1\methods\V820K23N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS20
QLast Update : Mon Nov 24 12:26:38 2014
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 8260-PENTAFLUOROBENZENE	4.341	168	490575	40.0000000	ppb	0.00
41) 8260-1,4-DIFLUOROBENZENE	4.673	114	918442	40.0000000	ppb	0.00
53) 8260-2-BROMO-1-CHLOROP...	5.840	79	154609	40.0000000	ppb	0.00
84) 8260-1,4-DICHLOROBENZE...	8.219	152	383919	40.0000000	ppb	0.00
96) AP9-PENTAFLUOROBENZENE	0.000	168	0m	40.0000000	ppb	-4.34
114) AP9-1,4-DIFLUOROBENZENE	0.000	114	0m	40.0000000	ppb	-4.67
122) AP9-2-BROMO-1-CHLOROPR...	0.000	79	0m	40.0000000	ppb	-5.84
128) AP9-1,4-DICHLOROBENZEN...	0.000	152	0m	40.0000000	ppb	-8.22
System Monitoring Compounds						
33) DIBROMOFLUOROMETHANE	4.107	111	284550	43.0400759	ppb	0.00
Spiked Amount 40.000	Range 78 - 121		Recovery = 107.60%			
46) a,a,a-Trifluorotoluene	5.036	146	504305	43.7795950	ppb	0.00
Spiked Amount 40.000	Range 85 - 114		Recovery = 109.45%			
50) TOLUENE-D8	5.499	98	1253036	42.6699109	ppb	0.00
Spiked Amount 40.000	Range 89 - 111		Recovery = 106.67%			
68) 4-BROMOFLUOROBENZENE	7.377	95	438410	42.9604645	ppb	0.00
Spiked Amount 40.000	Range 71 - 126		Recovery = 107.40%			
Target Compounds						Qvalue
2) TPH (GC/MS) LOW FRACTION	4.096	TIC	-7924978m	Below Cal		
3) PROPENE	1.673	41	11107	5.1853370	ppb	93
4) DICHLORODIFLUOROMETHANE	1.724	85	38674	4.9734864	ppb	95
5) CHLOROMETHANE	1.882	50	66027	5.1705732	ppb	98
6) VINYL CHLORIDE	1.956	62	55849	5.1149179	ppb	99
7) 1,3-BUTADIENE	1.972	39	42484	5.1901368	ppb	97
8) BROMOMETHANE	2.219	94	34158	5.2955550	ppb	98
9) CHLOROETHANE	2.313	66	10117	5.0950437	ppb	92
10) TRICHLOROFLUOROMETHANE	2.406	101	51257	5.1276233	ppb	98
11) DICHLOROFLUOROMETHANE	2.444	67	73154	5.1047096	ppb	98
12) ETHYL ETHER	2.596	59	42364	5.0616456	ppb	97
13) ACROLEIN	2.956	56	33491	24.3852385	ppb	95
14) 1,1-DICHLOROETHENE	2.740	61	62821	5.0275739	ppb	98
15) 1,1,2-TRICHLOROTRIFLUO...	2.763	101	35404	5.2317986	ppb	98
16) ACETONE	3.129	43	63191	26.4325834	ppb	97
17) IODOMETHANE	2.846	142	306545	25.3031569	ppb	100
18) CARBON DISULFIDE	2.776	76	148424	5.0623246	ppb #	94
19) METHYLENE CHLORIDE	3.104	84	52433	5.1001889	ppb	99
20) ACRYLONITRILE	3.592	53	81288	23.4474433	ppb	98
21) n-Hexane	3.216	56	46544	5.1067958	ppb	98
22) TRANS-1,2-DICHLOROETHENE	3.194	96	45395	5.0989390	ppb	96
23) METHYL TERT-BUTYL ETHER	3.242	73	125072	4.7788017	ppb #	100
24) 1,1-DICHLOROETHANE	3.557	63	91604	5.1269748	ppb	99
25) VINYL ACETATE	3.669	43	382181	25.7328784	ppb	99
26) DI-ISOPROPYL ETHER	3.444	45	183172	4.8431989	ppb	96
27) 2,2-Dichloropropane	3.923	77	45663	5.2834109	ppb	97
28) CIS-1,2-DICHLOROETHENE	3.859	96	50978	4.9707460	ppb	97
29) 2-BUTANONE (MEK)	4.171	72	25416	24.2861881	ppb	97
30) BROMOCHLOROMETHANE	3.978	130	27266	5.0773897	ppb	98
31) TETRAHYDROFURAN	4.104	42	14327	4.8658213	ppb	90
32) CHLOROFORM	4.001	83	83029	5.1413975	ppb	99
34) 1,1,1-TRICHLOROETHANE	4.132	97	57113	5.1043860	ppb	99
35) CARBON TETRACHLORIDE	4.094	119	50763	5.6316332	ppb	95

Quantitation Report (QT Reviewed)

Data Path : C:\MSDchem\1\data\112314a\
Data File : 1123 07a.D
Acq On : 24 Nov 2014 1:30 am
Operator : 644
Sample : STD VMS 5 ppb 14K20062
Misc : water IS/SURR14K01013
ALS Vial : 7 Sample Multiplier: 1
InstName : VOCMS20

Quant Time: Nov 24 12:37:03 2014
Quant Method : C:\MSDchem\1\methods\V820K23N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS20
QLast Update : Mon Nov 24 12:26:38 2014
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units		Dev(Min)
36) 1,1-Dichloropropene	4.197	75	62469	5.0376327 ppb		99
37) 2,2,4-TRIMETHYLPENTANE	4.232	57	187422	4.9933750 ppb		97
38) HEPTANE	4.271	43	83024	4.9376222 ppb	#	99
39) BENZENE	4.345	78	207271	5.1007928 ppb		96
40) 1,2-DICHLOROETHANE	4.460	62	60269	5.1382657 ppb		100
42) TRICHLOROETHENE	4.666	130	43333	5.1765185 ppb		99
43) 1,2-DICHLOROPROPANE	4.984	62	37515	4.8978850 ppb		96
44) DIBROMOMETHANE	4.933	93	25128	4.9936844 ppb		97
45) BROMODICHLOROMETHANE	5.007	83	61828	5.0450492 ppb		100
47) 2-CHLOROETHYL VINYL ETHER	5.322	63	68882	18.4412125 ppb		99
48) CIS-1,3-DICHLOROPROPENE	5.386	75	79052	4.8340153 ppb		99
49) 4-METHYL-2-PENTANONE (...	5.750	58	77130	22.3629100 ppb		95
51) TOLUENE	5.531	91	219741	5.3653088 ppb		99
52) TRANS-1,3-DICHLOROPROPENE	5.788	110	15157	4.5422628 ppb		93
54) 1,1,2-TRICHLOROETHANE	5.898	97	38510	5.1682059 ppb		99
55) TETRACHLOROETHENE	5.782	164	28338	5.1458626 ppb		97
56) 1,3-Dichloropropane	6.084	76	75748	5.2464480 ppb		99
57) 2-HEXANONE	6.293	58	70650	21.7279275 ppb		95
58) CHLORODIBROMOMETHANE	6.026	129	36365	4.9222612 ppb		96
59) 1,2-DIBROMOETHANE	6.203	107	34708	4.8815092 ppb		92
60) CHLOROBENZENE	6.537	112	124940	5.0709370 ppb		100
61) 1,1,1,2-TETRACHLOROETHANE	6.570	133	37772	5.1371389 ppb	#	100
62) ETHYLBENZENE	6.531	106	61461	4.6067716 ppb		93
63) M&P-XYLENE	6.624	106	164105	9.8245071 ppb		100
64) O-XYLENE	6.936	106	76829	4.8046430 ppb		96
65) STYRENE	6.972	104	120960	4.4575187 ppb		99
66) Bromoform	7.017	173	20246	4.9737175 ppb		98
67) Isopropylbenzene	7.148	105	196733	4.7951766 ppb		98
69) Bromobenzene	7.467	77	107290	5.1868936 ppb		99
70) 1,1,2,2-TETRACHLOROETHANE	7.508	83	49205	4.9412877 ppb		96
71) 1,2,3-TRICHLOROPROPANE	7.627	110	14228	5.0716131 ppb		99
72) TRANS-1,4-DICHLORO-2-B...	7.644	53	14336	4.8609507 ppb		96
73) n-Propylbenzene	7.451	91	258272	4.9320209 ppb		99
74) 4-ETHYLTOLUENE	7.528	105	204312	4.8386405 ppb		98
75) 2-Chlorotoluene	7.589	126	50137	5.2263373 ppb		97
76) 4-Chlorotoluene	7.711	91	163221	4.9401952 ppb		99
77) 1,3,5-Trimethylbenzene	7.586	105	174300	4.8332611 ppb		99
78) tert-Butylbenzene	7.833	119	137070	4.8328275 ppb		99
79) 1,2,4-Trimethylbenzene	7.888	105	177337	4.7473378 ppb		98
80) sec-Butylbenzene	7.968	105	226472	4.9235761 ppb		100
81) 1,3-DICHLOROBENZENE	8.164	146	92816	5.0059481 ppb		99
82) p-Isopropyltoluene	8.071	119	179024	4.8048486 ppb		99
83) DICYCLOPENTADIENE	8.078	66	230107	4.8662413 ppb		99
85) 1,4-DICHLOROBENZENE	8.232	146	97134	5.2066188 ppb	#	1
86) 1,2,3-TRIMETHYLBENZENE	8.232	105	191789	4.9983683 ppb		100
87) 1,2-DICHLOROBENZENE	8.570	146	83151	4.9293053 ppb		98
88) n-Butylbenzene	8.402	91	179711	4.8333471 ppb		99
89) 1,2-Dibromo-3-chloropr...	9.209	157	6977	4.4318211 ppb		96
90) 1,2,4-Trichlorobenzene	9.756	180	49654	4.7865054 ppb		97
91) HEXACHLORO-1,3-BUTADIENE	9.708	225	26891	5.1889081 ppb		97
92) Naphthalene	10.033	128	112347	4.2520626 ppb		100
93) 1,2,3-Trichlorobenzene	10.184	180	45929	4.7432794 ppb		99
94) 1-Methylnaphthalene	10.897	142	54520	3.7798884 ppb		98
95) 2-Methylnaphthalene	11.032	142	49628	3.7870880 ppb		97

Quantitation Report (QT Reviewed)

Data Path : C:\MSDchem\1\data\112314a\
Data File : 1123 07a.D
Acq On : 24 Nov 2014 1:30 am
Operator : 644
Sample : STD VMS 5 ppb 14K20062
Misc : water IS/SURR14K01013
ALS Vial : 7 Sample Multiplier: 1
InstName : VOCMS20

Quant Time: Nov 24 12:37:03 2014
Quant Method : C:\MSDchem\1\methods\V820K23N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS20
QLast Update : Mon Nov 24 12:26:38 2014
Response via : Initial Calibration

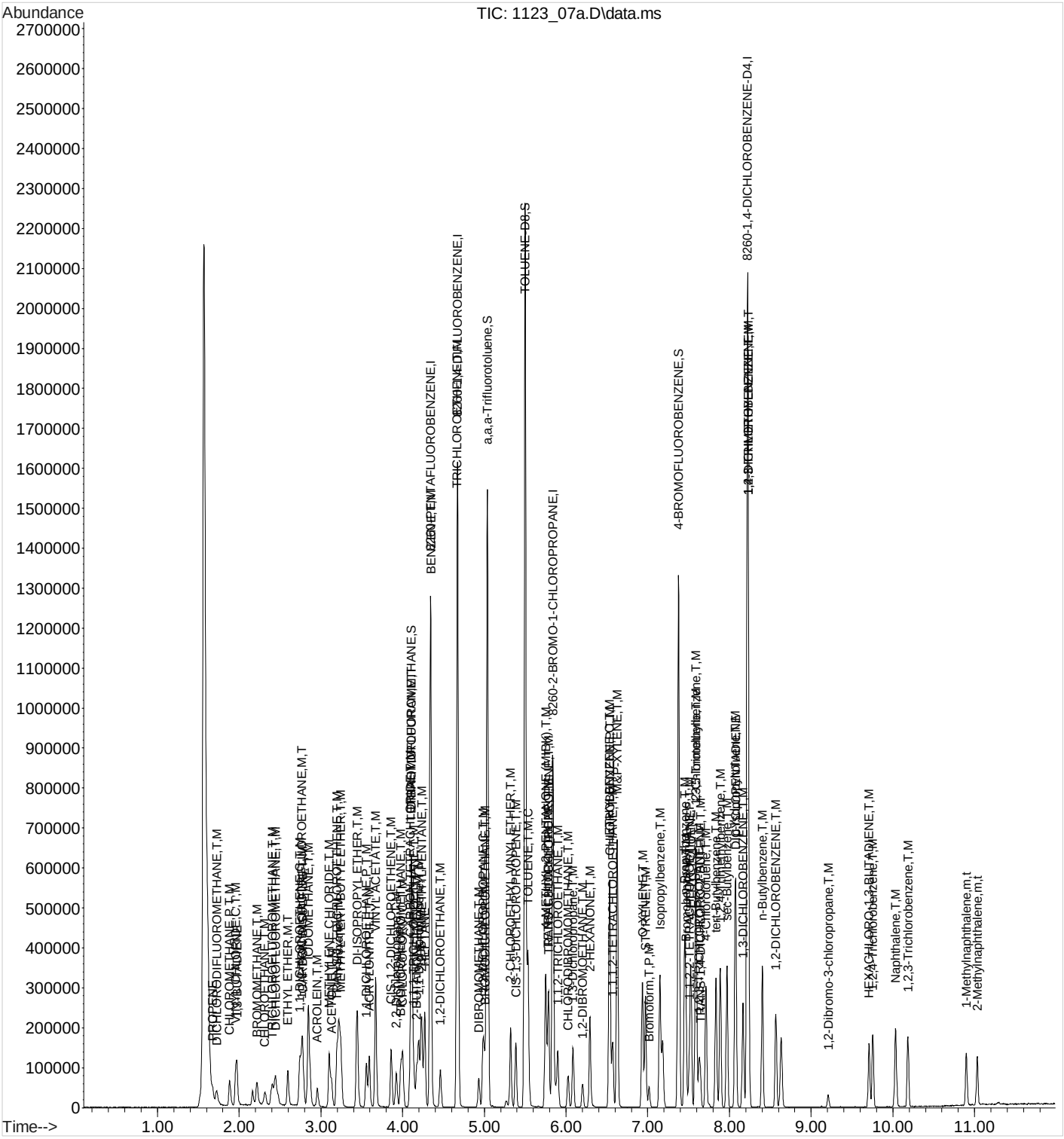
	Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
97)	ETHANOL	0.000		0	N.D.	
98)	Bromoethane	0.000		0	N.D.	d
99)	2-PROPANOL	0.000		0	N.D.	
100)	Methyl Acetate	0.000		0	N.D.	d
101)	ACETONITRILE	0.000		0	N.D.	d
102)	ALLYL CHLORIDE	0.000		0	N.D.	
103)	tert-BUTYL ALCOHOL	0.000		0	N.D.	
104)	chloroprene	0.000		0	N.D.	d
105)	ETHYL TERT-BUTYL ETHER	0.000		0	N.D.	
106)	PROPIONITRILE	0.000		0	N.D.	d
107)	Ethyl Acetate	0.000		0	N.D.	d
108)	METHACRYLONITRILE	0.000		0	N.D.	d
109)	Cyclohexane	0.000		0	N.D.	d
110)	tert-butyl formate	0.000		0	N.D.	
111)	ISOBUTANOL	0.000		0	N.D.	d
112)	t-Amyl Alcohol	0.000		0	N.D.	
113)	TERT-AMYL METHYL ETHER	0.000		0	N.D.	d
115)	N-BUTANOL	0.000		0	N.D.	
116)	Methyl Cyclohexane	0.000		0	N.D.	d
117)	2-nitropropane	0.000		0	N.D.	d
118)	METHYL METHACRYLATE	0.000		0	N.D.	d
119)	1,4-DIOXANE	0.000		0	N.D.	d
120)	n-octane	0.000		0	N.D.	d
121)	3,3-DIMETHYL-1-BUTANOL	0.000		0	N.D.	d
123)	ETHYL METHACRYLATE	0.000		0	N.D.	d
124)	CIS-1,4-DICHLORO-2-BUTENE	0.000		0	N.D.	d
125)	Cyclohexanone	0.000		0	N.D.	d
126)	PENTACHLOROETHANE	0.000		0	N.D.	d
127)	Hexachloroethane	0.000		0	N.D.	d

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\MSDchem\1\data\112314a\
Data File : 1123 07a.D
Acq On : 24 Nov 2014 1:30 am
Operator : 644
Sample : STD VMS 5 ppb 14K20062
Misc : water IS/SURR14K01013
ALS Vial : 7 Sample Multiplier: 1
InstName : VOCMS20

Quant Time: Nov 24 12:37:03 2014
Quant Method : C:\MSDchem\1\methods\V820K23N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS20
QLast Update : Mon Nov 24 12:26:38 2014
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\MSDchem\1\data\112314a\
Data File : 1123 08a.D
Acq On : 24 Nov 2014 1:48 am
Operator : 644
Sample : STD VMS 10 ppb 14K20062
Misc : water IS/SURR14K01013
ALS Vial : 8 Sample Multiplier: 1
InstName : VOCMS20

Quant Time: Nov 24 12:39:00 2014
Quant Method : C:\MSDchem\1\methods\V820K23N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS20
QLast Update : Mon Nov 24 12:38:11 2014
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 8260-PENTAFLUOROBENZENE	4.342	168	473292	40.0000000 ppb	0.00
41) 8260-1,4-DIFLUOROBENZENE	4.673	114	878875	40.0000000 ppb	0.00
53) 8260-2-BROMO-1-CHLOROP...	5.837	79	145440	40.0000000 ppb	0.00
84) 8260-1,4-DICHLOROBENZE...	8.219	152	376200	40.0000000 ppb	0.00
96) AP9-PENTAFLUOROBENZENE	0.000	168	0m	40.0000000 ppb	-4.34
114) AP9-1,4-DIFLUOROBENZENE	0.000	114	0m	40.0000000 ppb	-4.67
122) AP9-2-BROMO-1-CHLOROPR...	0.000	79	0m	40.0000000 ppb	-5.84
128) AP9-1,4-DICHLOROBENZEN...	0.000	152	0m	40.0000000 ppb	-8.22
System Monitoring Compounds					
33) DIBROMOFLUOROMETHANE	4.107	111	288244	44.3812418 ppb	0.00
Spiked Amount 40.000	Range 78 - 121		Recovery = 110.95%		
46) a,a,a-Trifluorotoluene	5.036	146	494972	43.2747884 ppb	0.00
Spiked Amount 40.000	Range 85 - 114		Recovery = 108.19%		
50) TOLUENE-D8	5.499	98	1236272	43.7683630 ppb	0.00
Spiked Amount 40.000	Range 89 - 111		Recovery = 109.42%		
68) 4-BROMOFLUOROBENZENE	7.377	95	429407	44.9394520 ppb	0.00
Spiked Amount 40.000	Range 71 - 126		Recovery = 112.35%		
Target Compounds					Qvalue
2) TPH (GC/MS) LOW FRACTION	4.096	TIC	-7223907m	1.0198907 ppm	
3) PROPENE	1.670	41	22696	6.7415468 ppb	99
4) DICHLORODIFLUOROMETHANE	1.724	85	77850	9.8335695 ppb	100
5) CHLOROMETHANE	1.882	50	128386	9.5631562 ppb	99
6) VINYL CHLORIDE	1.956	62	112093	10.1736684 ppb	99
7) 1,3-BUTADIENE	1.969	39	80770	9.0126955 ppb	99
8) BROMOMETHANE	2.213	94	67649	9.4023471 ppb	99
9) CHLOROETHANE	2.313	66	21158	11.7232755 ppb	92
10) TRICHLOROFLUOROMETHANE	2.403	101	101385	9.8606433 ppb	99
11) DICHLOROFLUOROMETHANE	2.441	67	147047	9.7420798 ppb	98
12) ETHYL ETHER	2.596	59	83187	9.7434608 ppb	98
13) ACROLEIN	2.956	56	68525	51.0813365 ppb	95
14) 1,1-DICHLOROETHENE	2.740	61	123075	9.6684101 ppb	98
15) 1,1,2-TRICHLOROTRIFLUO...	2.763	101	64532	9.2430344 ppb	95
16) ACETONE	3.129	43	119865	35.7641272 ppb	96
17) IODOMETHANE	2.846	142	604060	49.4442404 ppb	99
18) CARBON DISULFIDE	2.776	76	287270	9.3345422 ppb	99
19) METHYLENE CHLORIDE	3.100	84	103321	9.8607520 ppb	98
20) ACRYLONITRILE	3.592	53	165146	51.4846289 ppb	100
21) n-Hexane	3.219	56	87514	9.2092100 ppb	97
22) TRANS-1,2-DICHLOROETHENE	3.194	96	88644	9.5218295 ppb	99
23) METHYL TERT-BUTYL ETHER	3.242	73	251208	10.1491886 ppb #	100
24) 1,1-DICHLOROETHANE	3.557	63	178516	9.9027039 ppb	100
25) VINYL ACETATE	3.670	43	729286	50.6718341 ppb	100
26) DI-ISOPROPYL ETHER	3.441	45	365246	10.2690830 ppb	98
27) 2,2-Dichloropropane	3.924	77	87779	9.8021834 ppb	98
28) CIS-1,2-DICHLOROETHENE	3.859	96	102926	10.2941498 ppb	98
29) 2-BUTANONE (MEK)	4.171	72	48939	51.9615229 ppb	99
30) BROMOCHLOROMETHANE	3.978	130	54175	9.7270954 ppb	94
31) TETRAHYDROFURAN	4.104	42	27787	9.1574411 ppb	99
32) CHLOROFORM	4.001	83	159850	9.7002798 ppb	99
34) 1,1,1-TRICHLOROETHANE	4.133	97	111603	9.7175504 ppb	98
35) CARBON TETRACHLORIDE	4.094	119	86912	9.4883966 ppb	93

Quantitation Report (QT Reviewed)

Data Path : C:\MSDchem\1\data\112314a\
Data File : 1123 08a.D
Acq On : 24 Nov 2014 1:48 am
Operator : 644
Sample : STD VMS 10 ppb 14K20062
Misc : water IS/SURR14K01013
ALS Vial : 8 Sample Multiplier: 1
InstName : VOCMS20

Quant Time: Nov 24 12:39:00 2014
Quant Method : C:\MSDchem\1\methods\V820K23N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS20
QLast Update : Mon Nov 24 12:38:11 2014
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
36)	1,1-Dichloropropene	4.197	75	118474	9.7703988	ppb		98
37)	2,2,4-TRIMETHYLPENTANE	4.229	57	372144	10.0432664	ppb		100
38)	HEPTANE	4.271	43	164906	10.1307714	ppb	#	98
39)	BENZENE	4.345	78	402827	9.6125633	ppb		98
40)	1,2-DICHLOROETHANE	4.461	62	114795	9.7642412	ppb		99
42)	TRICHLOROETHENE	4.666	130	82532	10.0935575	ppb		98
43)	1,2-DICHLOROPROPANE	4.985	62	76050	10.2415692	ppb		100
44)	DIBROMOMETHANE	4.930	93	49055	10.2113523	ppb		98
45)	BROMODICHLOROMETHANE	5.007	83	118911	9.4940341	ppb		98
47)	2-CHLOROETHYL VINYL ETHER	5.322	63	155070	59.1666169	ppb		99
48)	CIS-1,3-DICHLOROPROPENE	5.383	75	157019	10.6792983	ppb		100
49)	4-METHYL-2-PENTANONE (...	5.750	58	159255	54.7973779	ppb		98
51)	TOLUENE	5.531	91	413292	8.8753630	ppb		99
52)	TRANS-1,3-DICHLOROPROPENE	5.788	110	30915	10.4425457	ppb		94
54)	1,1,2-TRICHLOROETHANE	5.898	97	73817	10.1981009	ppb		97
55)	TETRACHLOROETHENE	5.782	164	54745	9.9717596	ppb		98
56)	1,3-Dichloropropane	6.084	76	141786	9.6142617	ppb		98
57)	2-HEXANONE	6.293	58	146964	57.8658586	ppb		97
58)	CHLORODIBROMOMETHANE	6.023	129	70146	10.2234228	ppb		95
59)	1,2-DIBROMOETHANE	6.203	107	68624	10.4115643	ppb		96
60)	CHLOROBENZENE	6.538	112	243674	10.2874456	ppb		99
61)	1,1,1,2-TETRACHLOROETHANE	6.570	133	73842	10.3369835	ppb		100
62)	ETHYLBENZENE	6.531	106	127392	10.9291802	ppb		97
63)	M&P-XYLENE	6.624	106	328390	21.8586931	ppb		99
64)	O-XYLENE	6.933	106	154473	11.0392527	ppb		98
65)	STYRENE	6.972	104	257319	12.6330649	ppb		99
66)	Bromoform	7.017	173	38986	11.0606217	ppb		98
67)	Isopropylbenzene	7.149	105	395997	11.3631280	ppb		99
69)	Bromobenzene	7.467	77	208986	10.1813745	ppb		98
70)	1,1,2,2-TETRACHLOROETHANE	7.509	83	100234	10.9160953	ppb		97
71)	1,2,3-TRICHLOROPROPANE	7.628	110	28720	11.2783775	ppb		97
72)	TRANS-1,4-DICHLORO-2-B...	7.644	53	28007	11.6362670	ppb		97
73)	n-Propylbenzene	7.451	91	511199	10.3429014	ppb		100
74)	4-ETHYLTOLUENE	7.528	105	411896	10.6375136	ppb		99
75)	2-Chlorotoluene	7.589	126	98019	10.6283700	ppb		96
76)	4-Chlorotoluene	7.711	91	322618	10.6007801	ppb		98
77)	1,3,5-Trimethylbenzene	7.586	105	353945	11.0318270	ppb		100
78)	tert-Butylbenzene	7.833	119	274383	11.0358616	ppb		99
79)	1,2,4-Trimethylbenzene	7.888	105	360609	11.2515500	ppb		98
80)	sec-Butylbenzene	7.968	105	457836	11.4876945	ppb		99
81)	1,3-DICHLOROBENZENE	8.165	146	184340	10.4516722	ppb		99
82)	p-Isopropyltoluene	8.071	119	362775	11.7807250	ppb		99
83)	DICYCLOPENTADIENE	8.078	66	463619	11.7433466	ppb		100
85)	1,4-DICHLOROBENZENE	8.232	146	187917	9.4590253	ppb	#	1
86)	1,2,3-TRIMETHYLBENZENE	8.232	105	386022	10.3145724	ppb		99
87)	1,2-DICHLOROBENZENE	8.570	146	167193	9.6158309	ppb		99
88)	n-Butylbenzene	8.402	91	359845	10.1218194	ppb		99
89)	1,2-Dibromo-3-chloropr...	9.210	157	13961	10.7395879	ppb		88
90)	1,2,4-Trichlorobenzene	9.753	180	95208	9.6532678	ppb		99
91)	HEXACHLORO-1,3-BUTADIENE	9.708	225	52352	10.0405596	ppb		98
92)	Naphthalene	10.033	128	238011	9.8204841	ppb		99
93)	1,2,3-Trichlorobenzene	10.184	180	93030	10.4801668	ppb		100
94)	1-Methylnaphthalene	10.898	142	119063	9.3436289	ppb		100
95)	2-Methylnaphthalene	11.033	142	108351	9.9374791	ppb		96

Quantitation Report (QT Reviewed)

Data Path : C:\MSDchem\1\data\112314a\
Data File : 1123 08a.D
Acq On : 24 Nov 2014 1:48 am
Operator : 644
Sample : STD VMS 10 ppb 14K20062
Misc : water IS/SURR14K01013
ALS Vial : 8 Sample Multiplier: 1
InstName : VOCMS20

Quant Time: Nov 24 12:39:00 2014
Quant Method : C:\MSDchem\1\methods\V820K23N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS20
QLast Update : Mon Nov 24 12:38:11 2014
Response via : Initial Calibration

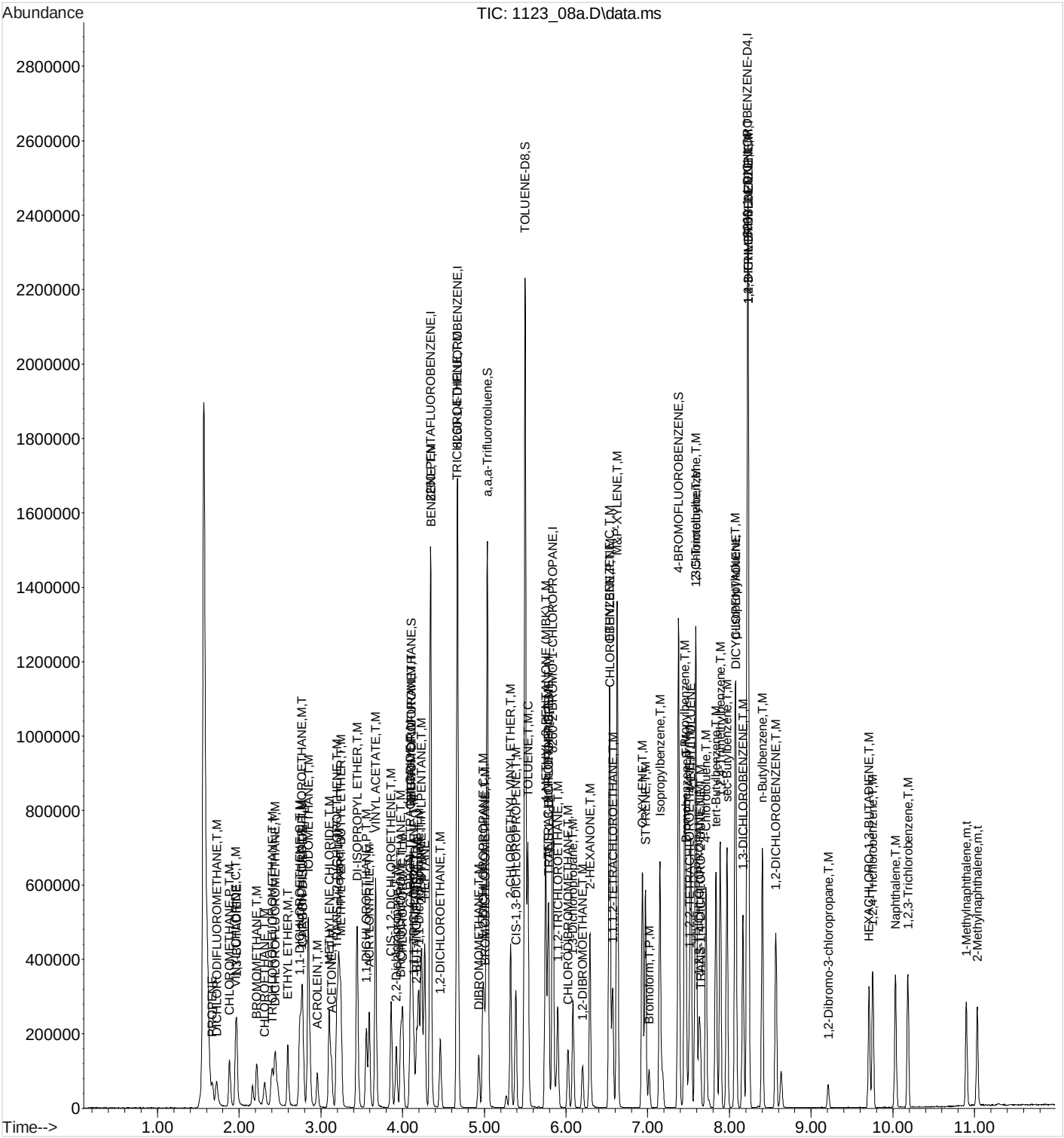
	Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
97)	ETHANOL	0.000		0	N.D.	d
98)	Bromoethane	0.000		0	N.D.	d
99)	2-PROPANOL	0.000		0	N.D.	
100)	Methyl Acetate	0.000		0	N.D.	d
101)	ACETONITRILE	0.000		0	N.D.	d
102)	ALLYL CHLORIDE	0.000		0	N.D.	
103)	tert-BUTYL ALCOHOL	0.000		0	N.D.	d
104)	chloroprene	0.000		0	N.D.	d
105)	ETHYL TERT-BUTYL ETHER	0.000		0	N.D.	
106)	PROPIONITRILE	0.000		0	N.D.	d
107)	Ethyl Acetate	0.000		0	N.D.	d
108)	METHACRYLONITRILE	0.000		0	N.D.	d
109)	Cyclohexane	0.000		0	N.D.	d
110)	tert-butyl formate	0.000		0	N.D.	
111)	ISOBUTANOL	0.000		0	N.D.	d
112)	t-Amyl Alcohol	0.000		0	N.D.	
113)	TERT-AMYL METHYL ETHER	0.000		0	N.D.	d
115)	N-BUTANOL	0.000		0	N.D.	
116)	Methyl Cyclohexane	0.000		0	N.D.	d
117)	2-nitropropane	0.000		0	N.D.	d
118)	METHYL METHACRYLATE	0.000		0	N.D.	d
119)	1,4-DIOXANE	0.000		0	N.D.	d
120)	n-octane	0.000		0	N.D.	d
121)	3,3-DIMETHYL-1-BUTANOL	0.000		0	N.D.	d
123)	ETHYL METHACRYLATE	0.000		0	N.D.	d
124)	CIS-1,4-DICHLORO-2-BUTENE	0.000		0	N.D.	d
125)	Cyclohexanone	0.000		0	N.D.	d
126)	PENTACHLOROETHANE	0.000		0	N.D.	d
127)	Hexachloroethane	0.000		0	N.D.	d

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\MSDchem\1\data\112314a\
Data File : 1123 08a.D
Acq On : 24 Nov 2014 1:48 am
Operator : 644
Sample : STD VMS 10 ppb 14K20062
Misc : water IS/SURR14K01013
ALS Vial : 8 Sample Multiplier: 1
InstName : VOCMS20

Quant Time: Nov 24 12:39:00 2014
Quant Method : C:\MSDchem\1\methods\V820K23N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS20
QLast Update : Mon Nov 24 12:38:11 2014
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\MSDchem\1\data\112314a\
Data File : 1123 09a.D
Acq On : 24 Nov 2014 2:06 am
Operator : 644
Sample : MSTD VMS 25 ppb 14K20062
Misc : water IS/SURR14K01013
ALS Vial : 9 Sample Multiplier: 1
InstName : VOCMS20

Quant Time: Nov 24 12:39:37 2014
Quant Method : C:\MSDchem\1\methods\V820K23N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS20
QLast Update : Mon Nov 24 12:26:38 2014
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 8260-PENTAFLUOROBENZENE	4.342	168	486727	40.0000000 ppb	0.00
41) 8260-1,4-DIFLUOROBENZENE	4.673	114	905637	40.0000000 ppb	0.00
53) 8260-2-BROMO-1-CHLOROP...	5.837	79	155428	40.0000000 ppb	0.00
84) 8260-1,4-DICHLOROBENZE...	8.219	152	389641	40.0000000 ppb	0.00
96) AP9-PENTAFLUOROBENZENE	0.000	168	0m	40.0000000 ppb	-4.34
114) AP9-1,4-DIFLUOROBENZENE	0.000	114	0m	40.0000000 ppb	-4.67
122) AP9-2-BROMO-1-CHLOROPR...	0.000	79	0m	40.0000000 ppb	-5.84
128) AP9-1,4-DICHLOROBENZEN...	0.000	152	0m	40.0000000 ppb	-8.22
System Monitoring Compounds					
33) DIBROMOFLUOROMETHANE	4.107	111	295174	44.1391294 ppb	0.00
Spiked Amount 40.000	Range 78 - 121		Recovery = 110.35%		
46) a,a,a-Trifluorotoluene	5.036	146	511136	43.4697890 ppb	0.00
Spiked Amount 40.000	Range 85 - 114		Recovery = 108.67%		
50) TOLUENE-D8	5.499	98	1303037	44.8025480 ppb	0.00
Spiked Amount 40.000	Range 89 - 111		Recovery = 112.01%#		
68) 4-BROMOFLUOROBENZENE	7.377	95	461656	45.0722344 ppb	0.00
Spiked Amount 40.000	Range 71 - 126		Recovery = 112.68%		
Target Compounds					Qvalue
2) TPH (GC/MS) LOW FRACTION	4.096	TIC	2678195m	Below Cal	
3) PROPENE	1.673	41	53130	16.0951691 ppb	100
4) DICHLORODIFLUOROMETHANE	1.724	85	192876	23.7469747 ppb	100
5) CHLOROMETHANE	1.882	50	316740	23.0860154 ppb	100
6) VINYL CHLORIDE	1.956	62	270830	23.8431396 ppb	100
7) 1,3-BUTADIENE	1.969	39	203033	22.3451886 ppb	100
8) BROMOMETHANE	2.216	94	159993	21.8093884 ppb	100
9) CHLOROETHANE	2.313	66	49252	25.8988142 ppb	100
10) TRICHLOROFLUOROMETHANE	2.403	101	247946	23.4962110 ppb	100
11) DICHLOROFLUOROMETHANE	2.441	67	355457	22.9842033 ppb	100
12) ETHYL ETHER	2.596	59	207599	23.7312880 ppb	100
13) ACROLEIN	2.956	56	170330	123.0859213 ppb	100
14) 1,1-DICHLOROETHENE	2.740	61	309932	23.7879767 ppb	100
15) 1,1,2-TRICHLOROTRIFLUO...	2.763	101	167850	23.6334140 ppb	100
16) ACETONE	3.129	43	296487	89.6681834 ppb	100
17) IODOMETHANE	2.846	142	1502483	119.7785582 ppb	100
18) CARBON DISULFIDE	2.776	76	727234	23.1989879 ppb	100
19) METHYLENE CHLORIDE	3.100	84	254999	23.7120129 ppb	100
20) ACRYLONITRILE	3.592	53	429953	129.7884195 ppb	100
21) n-Hexane	3.219	56	226066	23.3968809 ppb	100
22) TRANS-1,2-DICHLOROETHENE	3.194	96	220825	23.2241522 ppb	100
23) METHYL TERT-BUTYL ETHER	3.242	73	649174	25.4494317 ppb #	100
24) 1,1-DICHLOROETHANE	3.557	63	443173	23.9385439 ppb	100
25) VINYL ACETATE	3.670	43	1841920	124.2082365 ppb	100
26) DI-ISOPROPYL ETHER	3.445	45	938095	25.5487993 ppb	100
27) 2,2-Dichloropropane	3.924	77	214373	23.3439874 ppb	100
28) CIS-1,2-DICHLOROETHENE	3.859	96	254379	24.6359451 ppb	100
29) 2-BUTANONE (MEK)	4.171	72	129789	133.2543049 ppb	100
30) BROMOCHLOROMETHANE	3.978	130	133199	23.3466951 ppb	100
31) TETRAHYDROFURAN	4.104	42	73033	23.6894219 ppb	100
32) CHLOROFORM	4.001	83	400561	23.7381859 ppb	100
34) 1,1,1-TRICHLOROETHANE	4.136	97	277531	23.5934841 ppb	100
35) CARBON TETRACHLORIDE	4.094	119	223580	23.9097763 ppb	95

Quantitation Report (QT Reviewed)

Data Path : C:\MSDchem\1\data\112314a\
Data File : 1123 09a.D
Acq On : 24 Nov 2014 2:06 am
Operator : 644
Sample : MSTD VMS 25 ppb 14K20062
Misc : water IS/SURR14K01013
ALS Vial : 9 Sample Multiplier: 1
InstName : VOCMS20

Quant Time: Nov 24 12:39:37 2014
Quant Method : C:\MSDchem\1\methods\V820K23N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS20
QLast Update : Mon Nov 24 12:26:38 2014
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units		Dev(Min)
36) 1,1-Dichloropropene	4.197	75	307580	24.7467341 ppb		100
37) 2,2,4-TRIMETHYLPENTANE	4.229	57	930993	24.4166317 ppb		100
38) HEPTANE	4.271	43	417067	24.8682393 ppb	#	100
39) BENZENE	4.345	78	1007908	23.5177448 ppb		100
40) 1,2-DICHLOROETHANE	4.461	62	290936	24.1447037 ppb		100
42) TRICHLOROETHENE	4.666	130	206359	24.4589719 ppb		100
43) 1,2-DICHLOROPROPANE	4.985	62	188816	24.5913780 ppb		100
44) DIBROMOMETHANE	4.933	93	124045	24.9829029 ppb		100
45) BROMODICHLOROMETHANE	5.007	83	302108	23.5784065 ppb		100
47) 2-CHLOROETHYL VINYL ETHER	5.322	63	460393	166.1202959 ppb		100
48) CIS-1,3-DICHLOROPROPENE	5.383	75	403132	26.3521801 ppb		100
49) 4-METHYL-2-PENTANONE (...	5.750	58	425116	140.0344043 ppb		100
51) TOLUENE	5.531	91	1009622	21.3842994 ppb		100
52) TRANS-1,3-DICHLOROPROPENE	5.788	110	82259	26.7951696 ppb		100
54) 1,1,2-TRICHLOROETHANE	5.898	97	187270	24.1411753 ppb		100
55) TETRACHLOROETHENE	5.782	164	138403	23.5994942 ppb		100
56) 1,3-Dichloropropane	6.084	76	362861	23.1514027 ppb		100
57) 2-HEXANONE	6.293	58	408600	147.2353809 ppb		100
58) CHLORODIBROMOMETHANE	6.023	129	185675	25.2416358 ppb		100
59) 1,2-DIBROMOETHANE	6.203	107	178694	25.2207838 ppb		100
60) CHLOROBENZENE	6.538	112	619224	24.3624538 ppb		100
61) 1,1,1,2-TETRACHLOROETHANE	6.570	133	184792	24.0903132 ppb		100
62) ETHYLBENZENE	6.531	106	335303	26.5650462 ppb		100
63) M&P-XYLENE	6.624	106	839606	51.6103128 ppb		100
64) O-XYLENE	6.933	106	401876	26.4809420 ppb		100
65) STYRENE	6.972	104	681998	30.1952235 ppb		100
66) Bromoform	7.017	173	102304	26.7539013 ppb		100
67) Isopropylbenzene	7.149	105	1031115	27.1576306 ppb		100
69) Bromobenzene	7.467	77	519860	23.6377643 ppb		100
70) 1,1,2,2-TETRACHLOROETHANE	7.509	83	250267	25.1746636 ppb		100
71) 1,2,3-TRICHLOROPROPANE	7.628	110	70507	25.4442274 ppb		100
72) TRANS-1,4-DICHLORO-2-B...	7.644	53	74121	28.1584053 ppb		100
73) n-Propylbenzene	7.451	91	1316094	24.7954314 ppb		100
74) 4-ETHYLTOLUENE	7.528	105	1061219	25.4141046 ppb		100
75) 2-Chlorotoluene	7.589	126	245164	24.6539527 ppb		98
76) 4-Chlorotoluene	7.711	91	830360	25.3138848 ppb		100
77) 1,3,5-Trimethylbenzene	7.586	105	906341	26.0497134 ppb		100
78) tert-Butylbenzene	7.833	119	712813	26.4362380 ppb		100
79) 1,2,4-Trimethylbenzene	7.888	105	938857	26.9298275 ppb		100
80) sec-Butylbenzene	7.968	105	1156028	26.5774094 ppb		100
81) 1,3-DICHLOROBENZENE	8.165	146	465984	24.5639692 ppb		100
82) p-Isopropyltoluene	8.071	119	936410	27.7488837 ppb		100
83) DICYCLOPENTADIENE	8.078	66	1188422	27.4835199 ppb		100
85) 1,4-DICHLOROBENZENE	8.232	146	473348	23.1837861 ppb		100
86) 1,2,3-TRIMETHYLBENZENE	8.232	105	973555	25.0038281 ppb		100
87) 1,2-DICHLOROBENZENE	8.566	146	428003	23.8978985 ppb		100
88) n-Butylbenzene	8.402	91	943391	25.5760721 ppb		100
89) 1,2-Dibromo-3-chloropr...	9.210	157	39944	29.3059764 ppb		100
90) 1,2,4-Trichlorobenzene	9.753	180	263209	25.8947865 ppb		100
91) HEXACHLORO-1,3-BUTADIENE	9.708	225	131491	24.3345457 ppb		100
92) Naphthalene	10.033	128	670389	26.7751599 ppb		100
93) 1,2,3-Trichlorobenzene	10.184	180	245682	26.5401744 ppb		100
94) 1-Methylnaphthalene	10.898	142	365967	27.9915083 ppb		100
95) 2-Methylnaphthalene	11.033	142	332496	29.4694436 ppb		100

Quantitation Report (QT Reviewed)

Data Path : C:\MSDchem\1\data\112314a\
Data File : 1123 09a.D
Acq On : 24 Nov 2014 2:06 am
Operator : 644
Sample : MSTD VMS 25 ppb 14K20062
Misc : water IS/SURR14K01013
ALS Vial : 9 Sample Multiplier: 1
InstName : VOCMS20

Quant Time: Nov 24 12:39:37 2014
Quant Method : C:\MSDchem\1\methods\V820K23N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS20
QLast Update : Mon Nov 24 12:26:38 2014
Response via : Initial Calibration

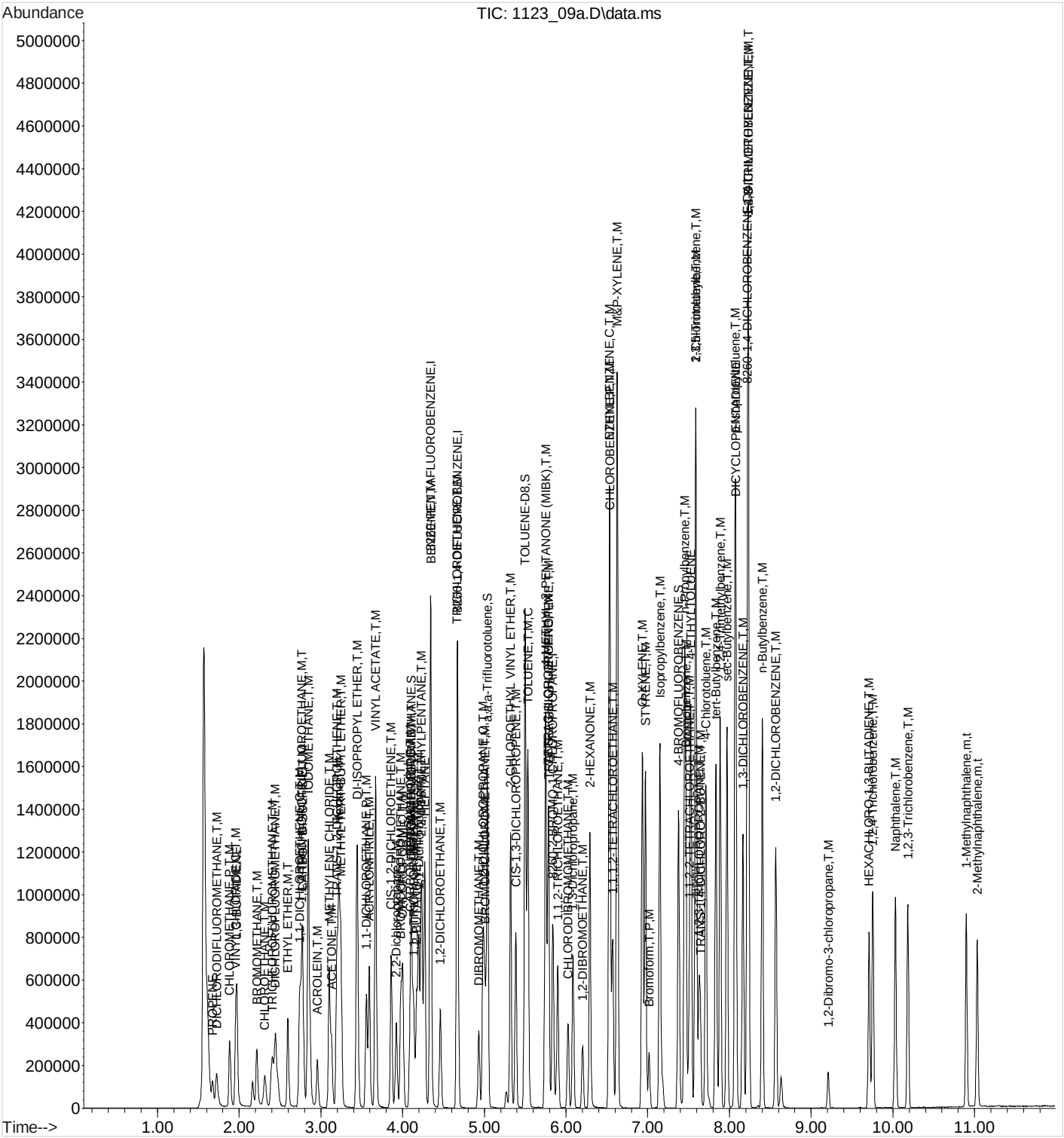
	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
97)	ETHANOL	0.000		0	N.D.	d	
98)	Bromoethane	0.000		0	N.D.	d	
99)	2-PROPANOL	0.000		0	N.D.		
100)	Methyl Acetate	0.000		0	N.D.	d	
101)	ACETONITRILE	0.000		0	N.D.	d	
102)	ALLYL CHLORIDE	0.000		0	N.D.		
103)	tert-BUTYL ALCOHOL	0.000		0	N.D.	d	
104)	chloroprene	0.000		0	N.D.	d	
105)	ETHYL TERT-BUTYL ETHER	0.000		0	N.D.		
106)	PROPIONITRILE	0.000		0	N.D.	d	
107)	Ethyl Acetate	0.000		0	N.D.	d	
108)	METHACRYLONITRILE	0.000		0	N.D.	d	
109)	Cyclohexane	0.000		0	N.D.	d	
110)	tert-butyl formate	0.000		0	N.D.	d	
111)	ISOBUTANOL	0.000		0	N.D.	d	
112)	t-Amyl Alcohol	0.000		0	N.D.	d	
113)	TERT-AMYL METHYL ETHER	0.000		0	N.D.	d	
115)	N-BUTANOL	0.000		0	N.D.		
116)	Methyl Cyclohexane	0.000		0	N.D.	d	
117)	2-nitropropane	0.000		0	N.D.	d	
118)	METHYL METHACRYLATE	0.000		0	N.D.	d	
119)	1,4-DIOXANE	0.000		0	N.D.	d	
120)	n-octane	0.000		0	N.D.	d	
121)	3,3-DIMETHYL-1-BUTANOL	0.000		0	N.D.	d	
123)	ETHYL METHACRYLATE	0.000		0	N.D.	d	
124)	CIS-1,4-DICHLORO-2-BUTENE	0.000		0	N.D.	d	
125)	Cyclohexanone	0.000		0	N.D.	d	
126)	PENTACHLOROETHANE	0.000		0	N.D.	d	
127)	Hexachloroethane	0.000		0	N.D.	d	

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\MSDchem\1\data\112314a\
Data File : 1123 09a.D
Acq On : 24 Nov 2014 2:06 am
Operator : 644
Sample : MSTD VMS 25 ppb 14K20062
Misc : water IS/SURR14K01013
ALS Vial : 9 Sample Multiplier: 1
InstName : VOCMS20

Quant Time: Nov 24 12:39:37 2014
Quant Method : C:\MSDchem\1\methods\V820K23N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS20
QLast Update : Mon Nov 24 12:26:38 2014
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\MSDchem\1\data\112314a\
Data File : 1123 10a.D
Acq On : 24 Nov 2014 2:24 am
Operator : 644
Sample : STD VMS 40 ppb 14K20062
Misc : water IS/SURR14K01013
ALS Vial : 10 Sample Multiplier: 1
InstName : VOCMS20

Quant Time: Nov 24 12:40:46 2014
Quant Method : C:\MSDchem\1\methods\V820K23N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS20
QLast Update : Mon Nov 24 12:26:38 2014
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 8260-PENTAFLUOROBENZENE	4.342	168	486377	40.0000000 ppb	0.00
41) 8260-1,4-DIFLUOROBENZENE	4.673	114	917965	40.0000000 ppb	0.00
53) 8260-2-BROMO-1-CHLOROP...	5.837	79	152604	40.0000000 ppb	0.00
84) 8260-1,4-DICHLOROBENZE...	8.219	152	380187	40.0000000 ppb	0.00
96) AP9-PENTAFLUOROBENZENE	0.000	168	0m	40.0000000 ppb	-4.34
114) AP9-1,4-DIFLUOROBENZENE	0.000	114	0m	40.0000000 ppb	-4.67
122) AP9-2-BROMO-1-CHLOROPR...	0.000	79	0m	40.0000000 ppb	-5.84
128) AP9-1,4-DICHLOROBENZEN...	0.000	152	0m	40.0000000 ppb	-8.22
System Monitoring Compounds					
33) DIBROMOFLUOROMETHANE	4.107	111	304187	45.5196298 ppb	0.00
Spiked Amount 40.000	Range 78 - 121		Recovery = 113.80%		
46) a,a,a-Trifluorotoluene	5.036	146	518039	43.4651871 ppb	0.00
Spiked Amount 40.000	Range 85 - 114		Recovery = 108.66%		
50) TOLUENE-D8	5.499	98	1325894	44.9762048 ppb	0.00
Spiked Amount 40.000	Range 89 - 111		Recovery = 112.44%#		
68) 4-BROMOFLUOROBENZENE	7.377	95	468568	46.5936327 ppb	0.00
Spiked Amount 40.000	Range 71 - 126		Recovery = 116.48%		
Target Compounds					Qvalue
2) TPH (GC/MS) LOW FRACTION	4.096	TIC	17596297m	Below Cal	
3) PROPENE	1.673	41	83810	25.4076194 ppb	99
4) DICHLORODIFLUOROMETHANE	1.721	85	318396	39.2292596 ppb	98
5) CHLOROMETHANE	1.882	50	516757	37.6916235 ppb	100
6) VINYL CHLORIDE	1.956	62	449262	39.5802713 ppb	99
7) 1,3-BUTADIENE	1.969	39	336035	37.0095935 ppb	99
8) BROMOMETHANE	2.213	94	264221	36.0431090 ppb	99
9) CHLOROETHANE	2.313	66	79686	41.9324700 ppb	99
10) TRICHLOROFLUOROMETHANE	2.403	101	404964	38.4033892 ppb	98
11) DICHLOROFLUOROMETHANE	2.441	67	582853	37.7149753 ppb	100
12) ETHYL ETHER	2.592	59	329951	37.7448679 ppb	97
13) ACROLEIN	2.956	56	277332	200.5532141 ppb	99
14) 1,1-DICHLOROETHENE	2.740	61	498375	38.2789259 ppb	98
15) 1,1,2-TRICHLOROTRIFLUO...	2.763	101	275698	38.8464325 ppb	99
16) ACETONE	3.129	43	481230	145.6457506 ppb	100
17) IODOMETHANE	2.843	142	2440140	194.6689414 ppb	99
18) CARBON DISULFIDE	2.773	76	1183105	37.7685717 ppb	99
19) METHYLENE CHLORIDE	3.100	84	408933	38.0534916 ppb	99
20) ACRYLONITRILE	3.592	53	686079	207.2533195 ppb	99
21) n-Hexane	3.219	56	372827	38.6137944 ppb	99
22) TRANS-1,2-DICHLOROETHENE	3.194	96	364422	38.3538200 ppb	99
23) METHYL TERT-BUTYL ETHER	3.242	73	1051810	41.2635583 ppb #	100
24) 1,1-DICHLOROETHANE	3.557	63	722775	39.0696902 ppb	99
25) VINYL ACETATE	3.670	43	2903003	195.9022958 ppb	99
26) DI-ISOPROPYL ETHER	3.441	45	1533736	41.8010021 ppb	100
27) 2,2-Dichloropropane	3.920	77	336873	36.7099309 ppb	98
28) CIS-1,2-DICHLOROETHENE	3.859	96	411248	39.8569608 ppb	100
29) 2-BUTANONE (MEK)	4.171	72	211188	216.9826495 ppb	100
30) BROMOCHLOROMETHANE	3.978	130	218726	38.3651824 ppb	96
31) TETRAHYDROFURAN	4.104	42	115922	37.6282133 ppb	98
32) CHLOROFORM	4.001	83	645410	38.2760368 ppb	99
34) 1,1,1-TRICHLOROETHANE	4.133	97	453645	38.5930512 ppb	99
35) CARBON TETRACHLORIDE	4.094	119	361184	38.6530237 ppb	97

Quantitation Report (QT Reviewed)

Data Path : C:\MSDchem\1\data\112314a\
Data File : 1123 10a.D
Acq On : 24 Nov 2014 2:24 am
Operator : 644
Sample : STD VMS 40 ppb 14K20062
Misc : water IS/SURR14K01013
ALS Vial : 10 Sample Multiplier: 1
InstName : VOCMS20

Quant Time: Nov 24 12:40:46 2014
Quant Method : C:\MSDchem\1\methods\V820K23N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS20
QLast Update : Mon Nov 24 12:26:38 2014
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units		Dev(Min)
36) 1,1-Dichloropropene	4.197	75	504830	40.6459580 ppb		99
37) 2,2,4-TRIMETHYLPENTANE	4.229	57	1555608	40.8274178 ppb		96
38) HEPTANE	4.268	43	719555	42.9354099 ppb	#	99
39) BENZENE	4.342	78	1650487	38.5388985 ppb		99
40) 1,2-DICHLOROETHANE	4.461	62	468334	38.8948869 ppb		100
42) TRICHLOROETHENE	4.666	130	339960	39.7530668 ppb		99
43) 1,2-DICHLOROPROPANE	4.985	62	306800	39.4209842 ppb		99
44) DIBROMOMETHANE	4.930	93	201970	40.1308664 ppb		98
45) BROMODICHLOROMETHANE	5.007	83	503136	38.7405384 ppb		98
47) 2-CHLOROETHYL VINYL ETHER	5.322	63	699946	249.1647232 ppb		99
48) CIS-1,3-DICHLOROPROPENE	5.383	75	668926	43.1395278 ppb		99
49) 4-METHYL-2-PENTANONE (...	5.750	58	695986	226.1808520 ppb		98
51) TOLUENE	5.531	91	1641381	34.2983839 ppb		100
52) TRANS-1,3-DICHLOROPROPENE	5.785	110	133951	43.0474152 ppb		98
54) 1,1,2-TRICHLOROETHANE	5.898	97	306563	40.2506852 ppb		99
55) TETRACHLOROETHENE	5.782	164	225373	39.1401440 ppb		99
56) 1,3-Dichloropropane	6.084	76	588465	38.2402740 ppb		99
57) 2-HEXANONE	6.290	58	661360	242.7253231 ppb		99
58) CHLORODIBROMOMETHANE	6.023	129	300521	41.6104326 ppb		98
59) 1,2-DIBROMOETHANE	6.203	107	289413	41.6035113 ppb		99
60) CHLOROBENZENE	6.538	112	1012310	40.5648726 ppb		99
61) 1,1,1,2-TETRACHLOROETHANE	6.570	133	304653	40.4508899 ppb		100
62) ETHYLBENZENE	6.531	106	545535	44.0209182 ppb		98
63) M&P-XYLENE	6.624	106	1374165	86.0326265 ppb		100
64) O-XYLENE	6.933	106	667648	44.8077600 ppb		98
65) STYRENE	6.972	104	1126631	50.8042666 ppb		100
66) Bromoform	7.017	173	169497	45.1460609 ppb		99
67) Isopropylbenzene	7.149	105	1708447	45.8299754 ppb		99
69) Bromobenzene	7.467	77	835342	38.6854501 ppb		100
70) 1,1,2,2-TETRACHLOROETHANE	7.509	83	399836	40.9642798 ppb		100
71) 1,2,3-TRICHLOROPROPANE	7.628	110	111175	40.8627426 ppb		100
72) TRANS-1,4-DICHLORO-2-B...	7.644	53	119380	46.1914613 ppb		99
73) n-Propylbenzene	7.451	91	2126271	40.8006157 ppb		99
74) 4-ETHYLTOLUENE	7.528	105	1743876	42.5352254 ppb		100
75) 2-Chlorotoluene	7.589	126	395690	40.4329097 ppb		98
76) 4-Chlorotoluene	7.711	91	1349323	41.8959115 ppb		99
77) 1,3,5-Trimethylbenzene	7.586	105	1472618	43.1086844 ppb		99
78) tert-Butylbenzene	7.833	119	1167085	44.0849010 ppb		99
79) 1,2,4-Trimethylbenzene	7.888	105	1503534	43.9246487 ppb		99
80) sec-Butylbenzene	7.968	105	1907328	44.6614706 ppb		100
81) 1,3-DICHLOROBENZENE	8.165	146	749020	40.2146502 ppb		99
82) p-Isopropyltoluene	8.071	119	1545032	46.6315975 ppb		99
83) DICYCLOPENTADIENE	8.078	66	1961917	46.2110293 ppb		100
85) 1,4-DICHLOROBENZENE	8.232	146	756562	37.9765689 ppb	#	72
86) 1,2,3-TRIMETHYLBENZENE	8.232	105	1587586	41.7879109 ppb		99
87) 1,2-DICHLOROBENZENE	8.566	146	690161	39.4939616 ppb		100
88) n-Butylbenzene	8.403	91	1546492	42.9691916 ppb		100
89) 1,2-Dibromo-3-chloropr...	9.210	157	60143	45.2227654 ppb		94
90) 1,2,4-Trichlorobenzene	9.753	180	424336	42.7847367 ppb		99
91) HEXACHLORO-1,3-BUTADIENE	9.711	225	213198	40.4368882 ppb		99
92) Naphthalene	10.029	128	1103892	45.1855076 ppb		100
93) 1,2,3-Trichlorobenzene	10.184	180	390141	43.1936011 ppb		99
94) 1-Methylnaphthalene	10.898	142	596907	46.7905806 ppb		99
95) 2-Methylnaphthalene	11.033	142	526098	47.7880764 ppb		99

Quantitation Report (QT Reviewed)

Data Path : C:\MSDchem\1\data\112314a\
Data File : 1123 10a.D
Acq On : 24 Nov 2014 2:24 am
Operator : 644
Sample : STD VMS 40 ppb 14K20062
Misc : water IS/SURR14K01013
ALS Vial : 10 Sample Multiplier: 1
InstName : VOCMS20

Quant Time: Nov 24 12:40:46 2014
Quant Method : C:\MSDchem\1\methods\V820K23N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS20
QLast Update : Mon Nov 24 12:26:38 2014
Response via : Initial Calibration

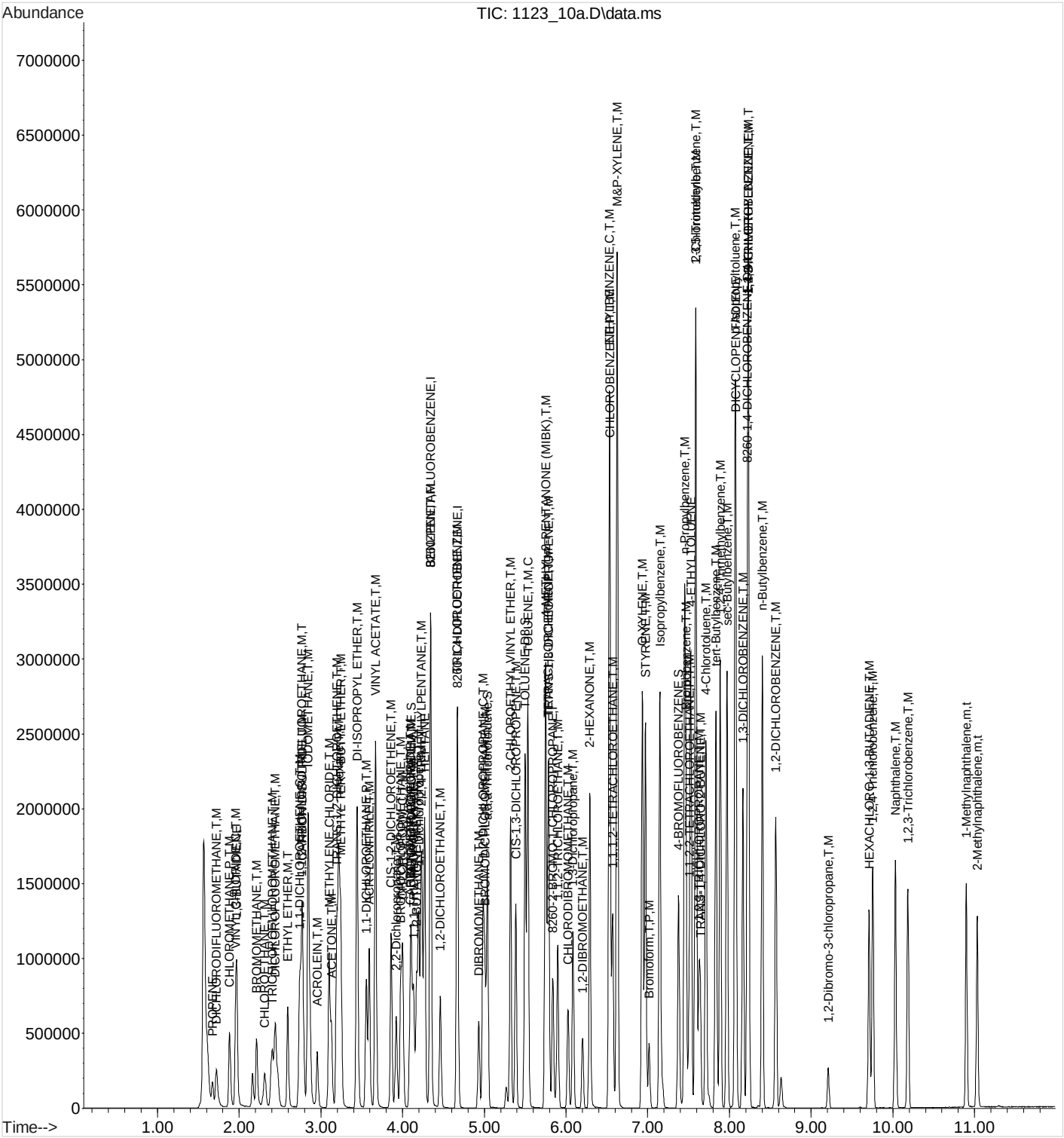
	Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
97)	ETHANOL	0.000		0	N.D.	
98)	Bromoethane	0.000		0	N.D.	d
99)	2-PROPANOL	0.000		0	N.D.	
100)	Methyl Acetate	0.000		0	N.D.	d
101)	ACETONITRILE	0.000		0	N.D.	d
102)	ALLYL CHLORIDE	0.000		0	N.D.	
103)	tert-BUTYL ALCOHOL	0.000		0	N.D.	d
104)	chloroprene	0.000		0	N.D.	d
105)	ETHYL TERT-BUTYL ETHER	0.000		0	N.D.	
106)	PROPIONITRILE	0.000		0	N.D.	d
107)	Ethyl Acetate	0.000		0	N.D.	d
108)	METHACRYLONITRILE	0.000		0	N.D.	d
109)	Cyclohexane	0.000		0	N.D.	d
110)	tert-butyl formate	0.000		0	N.D.	d
111)	ISOBUTANOL	0.000		0	N.D.	d
112)	t-Amyl Alcohol	0.000		0	N.D.	d
113)	TERT-AMYL METHYL ETHER	0.000		0	N.D.	d
115)	N-BUTANOL	0.000		0	N.D.	
116)	Methyl Cyclohexane	0.000		0	N.D.	d
117)	2-nitropropane	0.000		0	N.D.	d
118)	METHYL METHACRYLATE	0.000		0	N.D.	d
119)	1,4-DIOXANE	0.000		0	N.D.	d
120)	n-octane	0.000		0	N.D.	d
121)	3,3-DIMETHYL-1-BUTANOL	0.000		0	N.D.	d
123)	ETHYL METHACRYLATE	0.000		0	N.D.	d
124)	CIS-1,4-DICHLORO-2-BUTENE	0.000		0	N.D.	d
125)	Cyclohexanone	0.000		0	N.D.	d
126)	PENTACHLOROETHANE	0.000		0	N.D.	d
127)	Hexachloroethane	0.000		0	N.D.	d

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\MSDchem\1\data\112314a\
Data File : 1123 10a.D
Acq On : 24 Nov 2014 2:24 am
Operator : 644
Sample : STD VMS 40 ppb 14K20062
Misc : water IS/SURR14K01013
ALS Vial : 10 Sample Multiplier: 1
InstName : VOCMS20

Quant Time: Nov 24 12:40:46 2014
Quant Method : C:\MSDchem\1\methods\V820K23N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS20
QLast Update : Mon Nov 24 12:26:38 2014
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\MSDchem\1\data\112314a\
Data File : 1123 11a.D
Acq On : 24 Nov 2014 2:42 am
Operator : 644
Sample : STD VMS 75 ppb 14K20062
Misc : water IS/SURR14K01013
ALS Vial : 11 Sample Multiplier: 1
InstName : VOCMS20

Quant Time: Nov 24 12:41:54 2014
Quant Method : C:\MSDchem\1\methods\V820K23N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS20
QLast Update : Mon Nov 24 12:26:38 2014
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 8260-PENTAFLUOROBENZENE	4.342	168	486593	40.0000000 ppb	0.00
41) 8260-1,4-DIFLUOROBENZENE	4.670	114	920289	40.0000000 ppb	0.00
53) 8260-2-BROMO-1-CHLOROP...	5.837	79	154892	40.0000000 ppb	0.00
84) 8260-1,4-DICHLOROBENZE...	8.219	152	381926	40.0000000 ppb	# 0.00
96) AP9-PENTAFLUOROBENZENE	0.000	168	0m	40.0000000 ppb	-4.34
114) AP9-1,4-DIFLUOROBENZENE	0.000	114	0m	40.0000000 ppb	-4.67
122) AP9-2-BROMO-1-CHLOROPR...	0.000	79	0m	40.0000000 ppb	-5.84
128) AP9-1,4-DICHLOROBENZEN...	0.000	152	0m	40.0000000 ppb	-8.22
System Monitoring Compounds					
33) DIBROMOFLUOROMETHANE	4.107	111	315599	47.2680995 ppb	0.00
Spiked Amount 40.000	Range 78 - 121		Recovery = 118.17%		
46) a,a,a-Trifluorotoluene	5.036	146	538144	45.3504182 ppb	0.00
Spiked Amount 40.000	Range 85 - 114		Recovery = 113.38%		
50) TOLUENE-D8	5.499	98	1367011	46.3828911 ppb	0.00
Spiked Amount 40.000	Range 89 - 111		Recovery = 115.96%#		
68) 4-BROMOFLUOROBENZENE	7.377	95	476691	46.6259633 ppb	0.00
Spiked Amount 40.000	Range 71 - 126		Recovery = 116.56%		
Target Compounds					Qvalue
2) TPH (GC/MS) LOW FRACTION	4.096	TIC	51066872m	Below Cal	
3) PROPENE	1.673	41	162313	51.5345779 ppb	98
4) DICHLORODIFLUOROMETHANE	1.721	85	604775	74.6604836 ppb	98
5) CHLOROMETHANE	1.879	50	982554	72.1549768 ppb	100
6) VINYL CHLORIDE	1.956	62	840645	74.1257166 ppb	99
7) 1,3-BUTADIENE	1.965	39	641960	71.3382604 ppb	98
8) BROMOMETHANE	2.210	94	502510	69.3761903 ppb	99
9) CHLOROETHANE	2.306	66	148924	77.8619865 ppb	99
10) TRICHLOROFLUOROMETHANE	2.400	101	770674	73.4181291 ppb	99
11) DICHLOROFLUOROMETHANE	2.438	67	1106242	72.0650016 ppb	100
12) ETHYL ETHER	2.592	59	617598	71.1201965 ppb	99
13) ACROLEIN	2.956	56	505170	365.0263636 ppb	100
14) 1,1-DICHLOROETHENE	2.737	61	941781	72.6946895 ppb	98
15) 1,1,2-TRICHLOROTRIFLUO...	2.760	101	528444	74.6950953 ppb	98
16) ACETONE	3.129	43	866538	271.3625603 ppb	99
17) IODOMETHANE	2.843	142	4659969	372.8392023 ppb	100
18) CARBON DISULFIDE	2.772	76	2229700	71.6473142 ppb	98
19) METHYLENE CHLORIDE	3.100	84	774099	72.4429026 ppb	98
20) ACRYLONITRILE	3.589	53	1282191	385.4099450 ppb	99
21) n-Hexane	3.216	56	681675	70.8769575 ppb	95
22) TRANS-1,2-DICHLOROETHENE	3.194	96	695606	73.5553800 ppb	98
23) METHYL TERT-BUTYL ETHER	3.242	73	1956260	76.4102536 ppb #	100
24) 1,1-DICHLOROETHANE	3.554	63	1353299	73.3334650 ppb	99
25) VINYL ACETATE	3.666	43	5301436	358.5142477 ppb	100
26) DI-ISOPROPYL ETHER	3.441	45	2900286	78.5681753 ppb	99
27) 2,2-Dichloropropane	3.920	77	654883	72.0736555 ppb	99
28) CIS-1,2-DICHLOROETHENE	3.859	96	771374	74.7595575 ppb	99
29) 2-BUTANONE (MEK)	4.171	72	387130	393.4000344 ppb	98
30) BROMOCHLOROMETHANE	3.978	130	414382	73.0246230 ppb	95
31) TETRAHYDROFURAN	4.104	42	209604	68.5149550 ppb	98
32) CHLOROFORM	4.001	83	1214707	72.3962409 ppb	100
34) 1,1,1-TRICHLOROETHANE	4.133	97	866807	74.0348582 ppb	99
35) CARBON TETRACHLORIDE	4.094	119	702679	75.4833301 ppb	93

Quantitation Report (QT Reviewed)

Data Path : C:\MSDchem\1\data\112314a\
Data File : 1123 11a.D
Acq On : 24 Nov 2014 2:42 am
Operator : 644
Sample : STD VMS 75 ppb 14K20062
Misc : water IS/SURR14K01013
ALS Vial : 11 Sample Multiplier: 1
InstName : VOCMS20

Quant Time: Nov 24 12:41:54 2014
Quant Method : C:\MSDchem\1\methods\V820K23N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS20
QLast Update : Mon Nov 24 12:26:38 2014
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
36) 1,1-Dichloropropene	4.194	75	956397	76.8142501	ppb		99
37) 2,2,4-TRIMETHYLPENTANE	4.229	57	2929083	76.6424004	ppb		96
38) HEPTANE	4.268	43	1321478	78.1003605	ppb	#	99
39) BENZENE	4.342	78	3079186	72.1967736	ppb		99
40) 1,2-DICHLOROETHANE	4.461	62	870671	72.5271313	ppb		99
42) TRICHLOROETHENE	4.666	130	637371	74.3998858	ppb		99
43) 1,2-DICHLOROPROPANE	4.985	62	579603	74.4202559	ppb		98
44) DIBROMOMETHANE	4.930	93	379298	75.1443866	ppb		99
45) BROMODICHLOROMETHANE	5.007	83	946656	72.9939758	ppb		97
47) 2-CHLOROETHYL VINYL ETHER	5.322	63	1498640	516.2703421	ppb		100
48) CIS-1,3-DICHLOROPROPENE	5.383	75	1239349	78.9501056	ppb		100
49) 4-METHYL-2-PENTANONE (...	5.750	58	1298530	414.1525608	ppb		99
51) TOLUENE	5.531	91	3041447	64.5437553	ppb		100
52) TRANS-1,3-DICHLOROPROPENE	5.788	110	248565	78.9271998	ppb		99
54) 1,1,2-TRICHLOROETHANE	5.898	97	562699	72.7321665	ppb		100
55) TETRACHLOROETHENE	5.782	164	419967	72.0511921	ppb		99
56) 1,3-Dichloropropane	6.084	76	1079556	69.4987993	ppb		99
57) 2-HEXANONE	6.290	58	1260138	443.7999325	ppb		98
58) CHLORODIBROMOMETHANE	6.023	129	564258	76.5882085	ppb		98
59) 1,2-DIBROMOETHANE	6.200	107	538105	75.8307069	ppb		99
60) CHLOROBENZENE	6.538	112	1858976	73.2624351	ppb		99
61) 1,1,1,2-TETRACHLOROETHANE	6.570	133	580329	75.8092711	ppb		99
62) ETHYLBENZENE	6.531	106	1023669	80.3729464	ppb		95
63) M&P-XYLENE	6.624	106	2565275	156.7547392	ppb		99
64) O-XYLENE	6.933	106	1250989	81.4928832	ppb		100
65) STYRENE	6.972	104	2088929	89.7755292	ppb		99
66) Bromoform	7.017	173	316098	81.6371823	ppb		100
67) Isopropylbenzene	7.149	105	3211813	83.3670124	ppb		100
69) Bromobenzene	7.467	77	1550784	71.0492209	ppb		100
70) 1,1,2,2-TETRACHLOROETHANE	7.509	83	735182	73.9858216	ppb		100
71) 1,2,3-TRICHLOROPROPANE	7.628	110	204642	73.9065215	ppb		99
72) TRANS-1,4-DICHLORO-2-B...	7.644	53	219578	82.1170373	ppb		97
73) n-Propylbenzene	7.451	91	3999574	75.4246933	ppb		100
74) 4-ETHYLTOLUENE	7.528	105	3245431	77.3776032	ppb		99
75) 2-Chlorotoluene	7.589	126	728080	73.1996184	ppb		100
76) 4-Chlorotoluene	7.711	91	2494830	75.8696578	ppb		100
77) 1,3,5-Trimethylbenzene	7.586	105	2773139	79.2108329	ppb		99
78) tert-Butylbenzene	7.833	119	2210434	81.2256218	ppb		99
79) 1,2,4-Trimethylbenzene	7.888	105	2823287	80.2773419	ppb		99
80) sec-Butylbenzene	7.968	105	3603781	81.9449478	ppb		100
81) 1,3-DICHLOROBENZENE	8.165	146	1378220	72.8542916	ppb		99
82) p-Isopropyltoluene	8.071	119	2913234	84.8685726	ppb		99
83) DICYCLOPENTADIENE	8.078	66	3751507	85.4002301	ppb		100
85) 1,4-DICHLOROBENZENE	8.232	146	1407677	70.7859579	ppb	#	50
86) 1,2,3-TRIMETHYLBENZENE	8.232	105	2970816	77.4082850	ppb		100
87) 1,2-DICHLOROBENZENE	8.566	146	1287615	73.4635101	ppb		100
88) n-Butylbenzene	8.402	91	2886189	79.0935726	ppb		99
89) 1,2-Dibromo-3-chloropr...	9.210	157	115224	84.6655745	ppb		96
90) 1,2,4-Trichlorobenzene	9.753	180	779075	77.5199136	ppb		99
91) HEXACHLORO-1,3-BUTADIENE	9.708	225	404790	76.3220254	ppb		99
92) Naphthalene	10.029	128	2072922	83.1174813	ppb		99
93) 1,2,3-Trichlorobenzene	10.184	180	713739	77.8829712	ppb		100
94) 1-Methylnaphthalene	10.898	142	1115774	85.2563010	ppb		100
95) 2-Methylnaphthalene	11.033	142	959970	84.7394078	ppb		98

Quantitation Report (QT Reviewed)

Data Path : C:\MSDchem\1\data\112314a\
Data File : 1123 11a.D
Acq On : 24 Nov 2014 2:42 am
Operator : 644
Sample : STD VMS 75 ppb 14K20062
Misc : water IS/SURR14K01013
ALS Vial : 11 Sample Multiplier: 1
InstName : VOCMS20

Quant Time: Nov 24 12:41:54 2014
Quant Method : C:\MSDchem\1\methods\V820K23N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS20
QLast Update : Mon Nov 24 12:26:38 2014
Response via : Initial Calibration

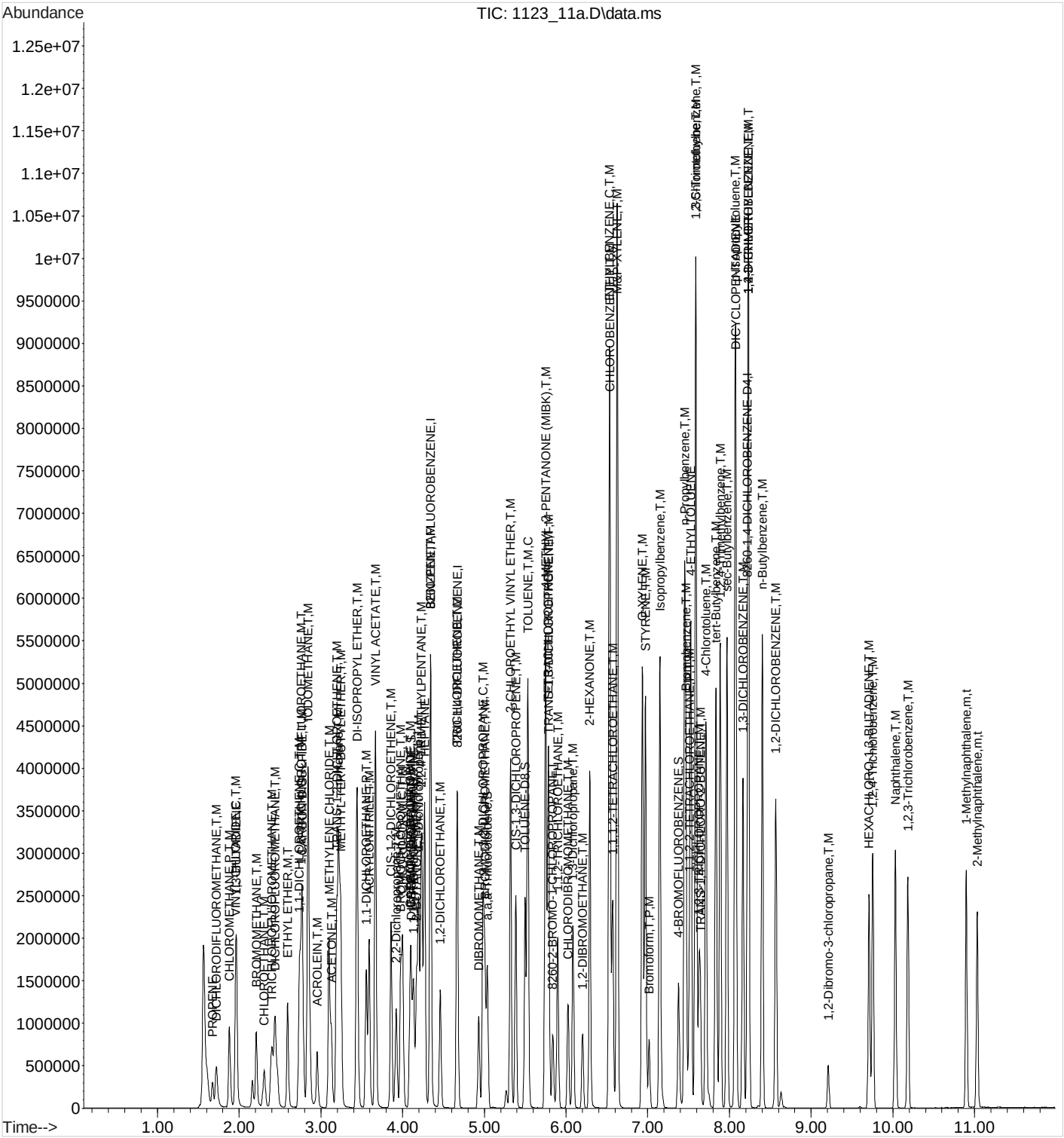
	Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
97)	ETHANOL	0.000		0	N.D.	
98)	Bromoethane	0.000		0	N.D.	d
99)	2-PROPANOL	0.000		0	N.D.	d
100)	Methyl Acetate	0.000		0	N.D.	d
101)	ACETONITRILE	0.000		0	N.D.	d
102)	ALLYL CHLORIDE	0.000		0	N.D.	d
103)	tert-BUTYL ALCOHOL	0.000		0	N.D.	d
104)	chloroprene	0.000		0	N.D.	d
105)	ETHYL TERT-BUTYL ETHER	0.000		0	N.D.	d
106)	PROPIONITRILE	0.000		0	N.D.	d
107)	Ethyl Acetate	0.000		0	N.D.	d
108)	METHACRYLONITRILE	0.000		0	N.D.	d
109)	Cyclohexane	0.000		0	N.D.	d
110)	tert-butyl formate	0.000		0	N.D.	d
111)	ISOBUTANOL	0.000		0	N.D.	d
112)	t-Amyl Alcohol	0.000		0	N.D.	d
113)	TERT-AMYL METHYL ETHER	0.000		0	N.D.	d
115)	N-BUTANOL	0.000		0	N.D.	
116)	Methyl Cyclohexane	0.000		0	N.D.	d
117)	2-nitropropane	0.000		0	N.D.	d
118)	METHYL METHACRYLATE	0.000		0	N.D.	d
119)	1,4-DIOXANE	0.000		0	N.D.	d
120)	n-octane	0.000		0	N.D.	d
121)	3,3-DIMETHYL-1-BUTANOL	0.000		0	N.D.	d
123)	ETHYL METHACRYLATE	0.000		0	N.D.	d
124)	CIS-1,4-DICHLORO-2-BUTENE	0.000		0	N.D.	d
125)	Cyclohexanone	0.000		0	N.D.	d
126)	PENTACHLOROETHANE	0.000		0	N.D.	d
127)	Hexachloroethane	0.000		0	N.D.	d

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\MSDchem\1\data\112314a\
Data File : 1123 11a.D
Acq On : 24 Nov 2014 2:42 am
Operator : 644
Sample : STD VMS 75 ppb 14K20062
Misc : water IS/SURR14K01013
ALS Vial : 11 Sample Multiplier: 1
InstName : VOCMS20

Quant Time: Nov 24 12:41:54 2014
Quant Method : C:\MSDchem\1\methods\V820K23N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS20
QLast Update : Mon Nov 24 12:26:38 2014
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\MSDchem\1\data\112314a\
Data File : 1123 12a.D
Acq On : 24 Nov 2014 3:00 am
Operator : 644
Sample : STD VMS 100 ppb 14K20062
Misc : water IS/SURR14K01013
ALS Vial : 12 Sample Multiplier: 1
InstName : VOCMS20

Quant Time: Nov 24 12:43:04 2014
Quant Method : C:\MSDchem\1\methods\V820K23N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS20
QLast Update : Mon Nov 24 12:26:38 2014
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 8260-PENTAFLUOROBENZENE	4.341	168	500857	40.0000000	ppb	0.00
41) 8260-1,4-DIFLUOROBENZENE	4.673	114	934169	40.0000000	ppb	0.00
53) 8260-2-BROMO-1-CHLOROP...	5.837	79	154125	40.0000000	ppb	0.00
84) 8260-1,4-DICHLOROBENZE...	8.219	152	385652	40.0000000	ppb	# 0.00
96) AP9-PENTAFLUOROBENZENE	0.000	168	0m	40.0000000	ppb	-4.34
114) AP9-1,4-DIFLUOROBENZENE	0.000	114	0m	40.0000000	ppb	-4.67
122) AP9-2-BROMO-1-CHLOROPR...	0.000	79	0m	40.0000000	ppb	-5.84
128) AP9-1,4-DICHLOROBENZEN...	0.000	152	0m	40.0000000	ppb	-8.22
System Monitoring Compounds						
33) DIBROMOFLUOROMETHANE	4.107	111	322657	46.9191950	ppb	0.00
Spiked Amount 40.000	Range 78 - 121		Recovery = 117.30%			
46) a,a,a-Trifluorotoluene	5.036	146	538233	44.8589220	ppb	0.00
Spiked Amount 40.000	Range 85 - 114		Recovery = 112.15%			
50) TOLUENE-D8	5.499	98	1373877	45.9903260	ppb	0.00
Spiked Amount 40.000	Range 89 - 111		Recovery = 114.98%#			
68) 4-BROMOFLUOROBENZENE	7.377	95	483223	47.5421211	ppb	0.00
Spiked Amount 40.000	Range 71 - 126		Recovery = 118.86%			
Target Compounds						Qvalue
2) TPH (GC/MS) LOW FRACTION	4.096	TIC	78223500m	Below Cal		
3) PROPENE	1.676	41	214809	68.6461689	ppb	99
4) DICHLORODIFLUOROMETHANE	1.724	85	781580	93.7866481	ppb	98
5) CHLOROMETHANE	1.882	50	1308725	93.7658566	ppb	100
6) VINYL CHLORIDE	1.959	62	1116566	95.7757711	ppb	100
7) 1,3-BUTADIENE	1.969	39	839144	91.0889138	ppb	98
8) BROMOMETHANE	2.210	94	670451	90.6814390	ppb	99
9) CHLOROETHANE	2.309	66	199784	101.0499478	ppb	98
10) TRICHLOROFLUOROMETHANE	2.399	101	1026990	95.2730127	ppb	99
11) DICHLOROFLUOROMETHANE	2.441	67	1474066	93.6991797	ppb	100
12) ETHYL ETHER	2.596	59	822250	92.5223218	ppb	99
13) ACROLEIN	2.956	56	670667	472.2054911	ppb	99
14) 1,1-DICHLOROETHENE	2.740	61	1235119	92.9393106	ppb	97
15) 1,1,2-TRICHLOROTRIFLUO...	2.763	101	690745	94.8984662	ppb	98
16) ACETONE	3.129	43	1157216	363.2235115	ppb	99
17) IODOMETHANE	2.843	142	6245531	485.7783553	ppb	100
18) CARBON DISULFIDE	2.772	76	2942634	92.3218139	ppb	98
19) METHYLENE CHLORIDE	3.100	84	1027403	93.7649733	ppb	99
20) ACRYLONITRILE	3.592	53	1699810	494.8632388	ppb	100
21) n-Hexane	3.216	56	915947	93.0917192	ppb	95
22) TRANS-1,2-DICHLOROETHENE	3.194	96	918954	94.6079145	ppb	98
23) METHYL TERT-BUTYL ETHER	3.242	73	2613295	98.9598898	ppb #	100
24) 1,1-DICHLOROETHANE	3.557	63	1810896	95.5713315	ppb	99
25) VINYL ACETATE	3.669	43	6969006	460.1107990	ppb	100
26) DI-ISOPROPYL ETHER	3.444	45	3910987	102.3893080	ppb	99
27) 2,2-Dichloropropane	3.923	77	859691	92.3196656	ppb	99
28) CIS-1,2-DICHLOROETHENE	3.859	96	1037667	97.7387023	ppb	100
29) 2-BUTANONE (MEK)	4.171	72	519088	509.6938362	ppb	98
30) BROMOCHLOROMETHANE	3.978	130	545822	93.7226169	ppb	96
31) TETRAHYDROFURAN	4.104	42	287396	92.1533834	ppb	97
32) CHLOROFORM	4.001	83	1627011	94.5726540	ppb	99
34) 1,1,1-TRICHLOROETHANE	4.132	97	1140596	94.7805465	ppb	99
35) CARBON TETRACHLORIDE	4.094	119	935321	97.5429775	ppb	94

Quantitation Report (QT Reviewed)

Data Path : C:\MSDchem\1\data\112314a\
Data File : 1123 12a.D
Acq On : 24 Nov 2014 3:00 am
Operator : 644
Sample : STD VMS 100 ppb 14K20062
Misc : water IS/SURR14K01013
ALS Vial : 12 Sample Multiplier: 1
InstName : VOCMS20

Quant Time: Nov 24 12:43:04 2014
Quant Method : C:\MSDchem\1\methods\V820K23N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS20
QLast Update : Mon Nov 24 12:26:38 2014
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc Units		Dev(Min)
36)	1,1-Dichloropropene	4.197	75	1266784	98.5808475 ppb		99
37)	2,2,4-TRIMETHYLPENTANE	4.232	57	3832197	97.1811245 ppb		98
38)	HEPTANE	4.268	43	1808394	103.3589444 ppb	#	97
39)	BENZENE	4.345	78	4124977	94.3545518 ppb		99
40)	1,2-DICHLOROETHANE	4.460	62	1163910	94.5391934 ppb		100
42)	TRICHLOROETHENE	4.666	130	853371	98.2206750 ppb		99
43)	1,2-DICHLOROPROPANE	4.985	62	781306	98.9130607 ppb		98
44)	DIBROMOMETHANE	4.933	93	502473	98.0470683 ppb		99
45)	BROMODICHLOROMETHANE	5.007	83	1283143	97.7600156 ppb		98
47)	2-CHLOROETHYL VINYL ETHER	5.322	63	1984312	646.3683981 ppb		100
48)	CIS-1,3-DICHLOROPROPENE	5.386	75	1679735	104.8007905 ppb		100
49)	4-METHYL-2-PENTANONE (...	5.750	58	1729753	537.2570081 ppb		98
51)	TOLUENE	5.531	91	4151539	88.1580693 ppb		100
52)	TRANS-1,3-DICHLOROPROPENE	5.788	110	341727	106.2784855 ppb		99
54)	1,1,2-TRICHLOROETHANE	5.898	97	751989	98.0120213 ppb		99
55)	TETRACHLOROETHENE	5.782	164	568319	98.4182175 ppb		99
56)	1,3-Dichloropropane	6.084	76	1487049	96.9990037 ppb		99
57)	2-HEXANONE	6.290	58	1669525	579.1003299 ppb		98
58)	CHLORODIBROMOMETHANE	6.026	129	770025	104.7910657 ppb		98
59)	1,2-DIBROMOETHANE	6.203	107	725762	102.6582964 ppb		99
60)	CHLOROBENZENE	6.538	112	2536133	100.7058916 ppb		99
61)	1,1,1,2-TETRACHLOROETHANE	6.570	133	774957	101.6157854 ppb		100
62)	ETHYLBENZENE	6.531	106	1404079	109.9143804 ppb		99
63)	M&P-XYLENE	6.624	106	3490804	213.3047542 ppb		99
64)	O-XYLENE	6.936	106	1694979	109.9078874 ppb		99
65)	STYRENE	6.972	104	2879119	121.6874522 ppb		99
66)	Bromoform	7.017	173	432275	111.1047883 ppb		99
67)	Isopropylbenzene	7.148	105	4321126	111.3388104 ppb		99
69)	Bromobenzene	7.467	77	2092820	96.9270912 ppb		100
70)	1,1,2,2-TETRACHLOROETHANE	7.509	83	970111	98.2616325 ppb		100
71)	1,2,3-TRICHLOROPROPANE	7.628	110	275996	100.3346154 ppb		98
72)	TRANS-1,4-DICHLORO-2-B...	7.644	53	293453	109.1399560 ppb		95
73)	n-Propylbenzene	7.451	91	5389698	102.0814861 ppb		99
74)	4-ETHYLTOLUENE	7.528	105	4355185	103.9868298 ppb		100
75)	2-Chlorotoluene	7.589	126	980861	99.3694742 ppb		100
76)	4-Chlorotoluene	7.711	91	3349113	102.2241927 ppb		99
77)	1,3,5-Trimethylbenzene	7.586	105	3725766	106.2878405 ppb		100
78)	tert-Butylbenzene	7.833	119	2961800	108.3776970 ppb		100
79)	1,2,4-Trimethylbenzene	7.888	105	3759464	106.5951759 ppb		99
80)	sec-Butylbenzene	7.968	105	4771846	107.9345700 ppb		100
81)	1,3-DICHLOROBENZENE	8.164	146	1845439	98.3501282 ppb		100
82)	p-Isopropyltoluene	8.071	119	3899075	112.5085558 ppb		99
83)	DICYCLOPENTADIENE	8.078	66	5023404	113.1792499 ppb		100
85)	1,4-DICHLOROBENZENE	8.232	146	1893300	94.8783187 ppb	#	44
86)	1,2,3-TRIMETHYLBENZENE	8.232	105	3959132	101.8001877 ppb		100
87)	1,2-DICHLOROBENZENE	8.566	146	1717887	97.2867243 ppb		100
88)	n-Butylbenzene	8.402	91	3821355	103.0840801 ppb		99
89)	1,2-Dibromo-3-chloropr...	9.209	157	151734	108.6650872 ppb		95
90)	1,2,4-Trichlorobenzene	9.756	180	1046326	102.7226876 ppb		99
91)	HEXACHLORO-1,3-BUTADIENE	9.708	225	527239	98.2565515 ppb		99
92)	Naphthalene	10.029	128	2725492	106.9415157 ppb		100
93)	1,2,3-Trichlorobenzene	10.184	180	947822	101.9911651 ppb		100
94)	1-Methylnaphthalene	10.897	142	1494691	111.4130440 ppb		99
95)	2-Methylnaphthalene	11.033	142	1273959	109.7855801 ppb		98

Quantitation Report (QT Reviewed)

Data Path : C:\MSDchem\1\data\112314a\
Data File : 1123 12a.D
Acq On : 24 Nov 2014 3:00 am
Operator : 644
Sample : STD VMS 100 ppb 14K20062
Misc : water IS/SURR14K01013
ALS Vial : 12 Sample Multiplier: 1
InstName : VOCMS20

Quant Time: Nov 24 12:43:04 2014
Quant Method : C:\MSDchem\1\methods\V820K23N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS20
QLast Update : Mon Nov 24 12:26:38 2014
Response via : Initial Calibration

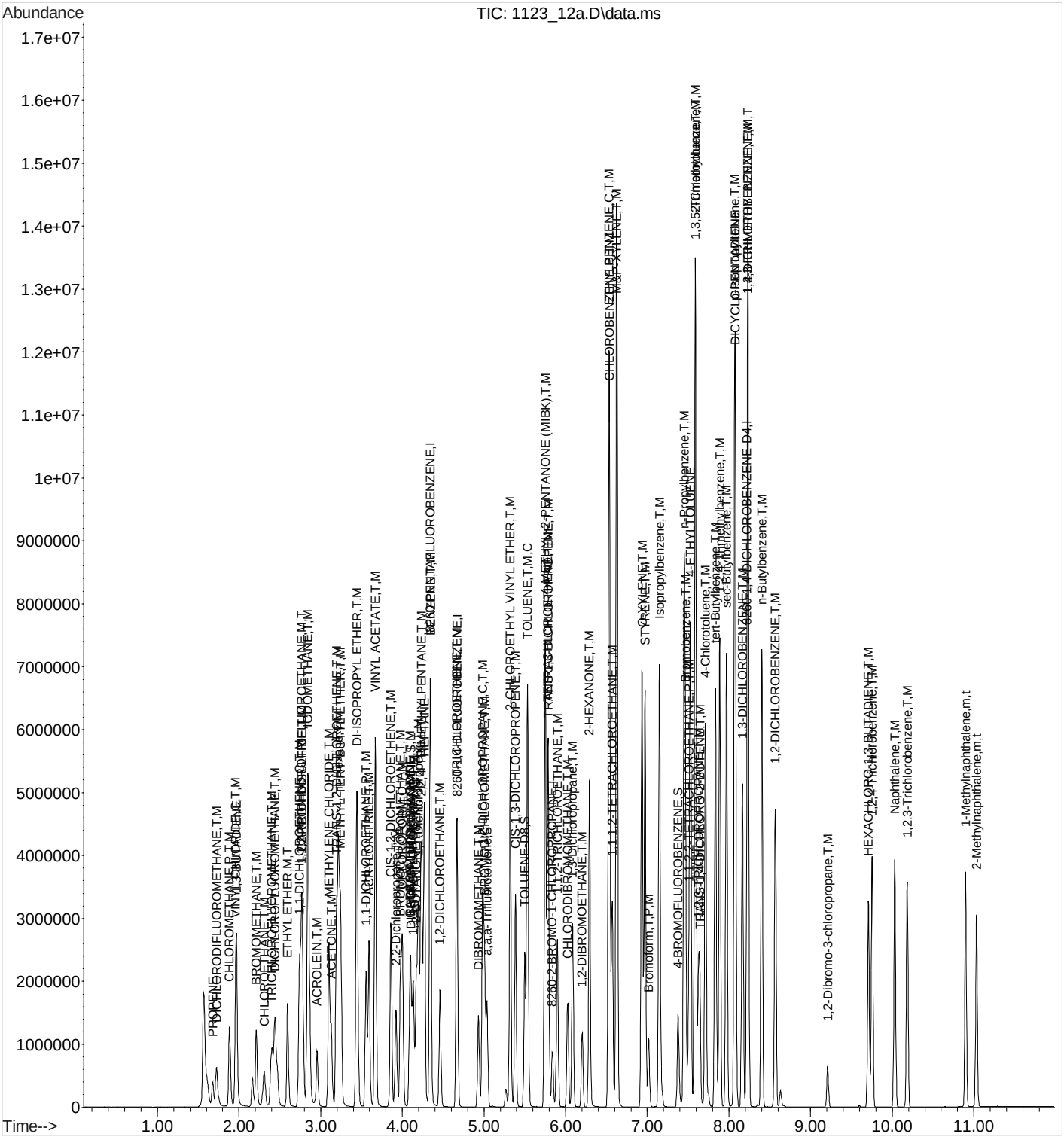
	Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
97)	ETHANOL	0.000		0	N.D.	
98)	Bromoethane	0.000		0	N.D.	d
99)	2-PROPANOL	0.000		0	N.D.	d
100)	Methyl Acetate	0.000		0	N.D.	d
101)	ACETONITRILE	0.000		0	N.D.	d
102)	ALLYL CHLORIDE	0.000		0	N.D.	
103)	tert-BUTYL ALCOHOL	0.000		0	N.D.	d
104)	chloroprene	0.000		0	N.D.	d
105)	ETHYL TERT-BUTYL ETHER	0.000		0	N.D.	d
106)	PROPIONITRILE	0.000		0	N.D.	d
107)	Ethyl Acetate	0.000		0	N.D.	d
108)	METHACRYLONITRILE	0.000		0	N.D.	d
109)	Cyclohexane	0.000		0	N.D.	d
110)	tert-butyl formate	0.000		0	N.D.	d
111)	ISOBUTANOL	0.000		0	N.D.	d
112)	t-Amyl Alcohol	0.000		0	N.D.	d
113)	TERT-AMYL METHYL ETHER	0.000		0	N.D.	d
115)	N-BUTANOL	0.000		0	N.D.	
116)	Methyl Cyclohexane	0.000		0	N.D.	d
117)	2-nitropropane	0.000		0	N.D.	d
118)	METHYL METHACRYLATE	0.000		0	N.D.	d
119)	1,4-DIOXANE	0.000		0	N.D.	d
120)	n-octane	0.000		0	N.D.	d
121)	3,3-DIMETHYL-1-BUTANOL	0.000		0	N.D.	d
123)	ETHYL METHACRYLATE	0.000		0	N.D.	d
124)	CIS-1,4-DICHLORO-2-BUTENE	0.000		0	N.D.	d
125)	Cyclohexanone	0.000		0	N.D.	d
126)	PENTACHLOROETHANE	0.000		0	N.D.	d
127)	Hexachloroethane	0.000		0	N.D.	d

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\MSDchem\1\data\112314a\
Data File : 1123 12a.D
Acq On : 24 Nov 2014 3:00 am
Operator : 644
Sample : STD VMS 100 ppb 14K20062
Misc : water IS/SURR14K01013
ALS Vial : 12 Sample Multiplier: 1
InstName : VOCMS20

Quant Time: Nov 24 12:43:04 2014
Quant Method : C:\MSDchem\1\methods\V820K23N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS20
QLast Update : Mon Nov 24 12:26:38 2014
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\MSDchem\1\data\112314a\
Data File : 1123 13a.D
Acq On : 24 Nov 2014 3:19 am
Operator : 644
Sample : STD VMS 200 ppb 14K20062
Misc : water IS/SURR14K01013
ALS Vial : 13 Sample Multiplier: 1
InstName : VOCMS20

Quant Time: Nov 24 12:44:17 2014
Quant Method : C:\MSDchem\1\methods\V820K23N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS20
QLast Update : Mon Nov 24 12:26:38 2014
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 8260-PENTAFLUOROBENZENE	4.341	168	488385	40.0000000	ppb	0.00
41) 8260-1,4-DIFLUOROBENZENE	4.669	114	938602	40.0000000	ppb	0.00
53) 8260-2-BROMO-1-CHLOROP...	5.840	79	152975	40.0000000	ppb	0.00
84) 8260-1,4-DICHLOROBENZE...	8.222	152	361146	40.0000000	ppb	# 0.00
96) AP9-PENTAFLUOROBENZENE	0.000	168	0m	40.0000000	ppb	-4.34
114) AP9-1,4-DIFLUOROBENZENE	0.000	114	0m	40.0000000	ppb	-4.67
122) AP9-2-BROMO-1-CHLOROPR...	0.000	79	0m	40.0000000	ppb	-5.84
128) AP9-1,4-DICHLOROBENZEN...	0.000	152	0m	40.0000000	ppb	-8.22
System Monitoring Compounds						
33) DIBROMOFLUOROMETHANE	4.107	111	330463	49.3926954	ppb	0.00
Spiked Amount 40.000	Range 78 - 121		Recovery = 123.48%#			
46) a,a,a-Trifluorotoluene	5.036	146	538239	44.9416461	ppb	0.00
Spiked Amount 40.000	Range 85 - 114		Recovery = 112.35%			
50) TOLUENE-D8	5.499	98	1386608	46.3915029	ppb	0.00
Spiked Amount 40.000	Range 89 - 111		Recovery = 115.98%#			
68) 4-BROMOFLUOROBENZENE	7.377	95	468322	46.4667847	ppb	0.00
Spiked Amount 40.000	Range 71 - 126		Recovery = 116.17%			
Target Compounds						Qvalue
2) TPH (GC/MS) LOW FRACTION	4.096	TIC	156601121m	Below Cal		
3) PROPENE	1.679	41	422858	143.0687058	ppb	99
4) DICHLORODIFLUOROMETHANE	1.721	85	1559117	193.0654482	ppb	99
5) CHLOROMETHANE	1.882	50	2591225	191.5882240	ppb	100
6) VINYL CHLORIDE	1.959	62	2214524	195.6327344	ppb	100
7) 1,3-BUTADIENE	1.965	39	1707401	191.7800263	ppb	98
8) BROMOMETHANE	2.213	94	1319500	184.7473253	ppb	99
9) CHLOROETHANE	2.309	66	392814	203.5438716	ppb	97
10) TRICHLOROFLUOROMETHANE	2.403	101	2072826	198.1416313	ppb	99
11) DICHLOROFLUOROMETHANE	2.441	67	2912377	191.0569991	ppb	100
12) ETHYL ETHER	2.592	59	1629766	189.4868350	ppb	99
13) ACROLEIN	2.956	56	1320792	959.0271272	ppb	99
14) 1,1-DICHLOROETHENE	2.737	61	2520234	195.8665332	ppb	97
15) 1,1,2-TRICHLOROTRIFLUO...	2.760	101	1411704	199.9206975	ppb	97
16) ACETONE	3.129	43	2077821	687.6459028	ppb	100
17) IODOMETHANE	2.843	142	12907934	1032.5569056	ppb	99
18) CARBON DISULFIDE	2.772	76	5985828	194.0846579	ppb	98
19) METHYLENE CHLORIDE	3.100	84	2042832	192.3978447	ppb	98
20) ACRYLONITRILE	3.589	53	3421050	1022.4499754	ppb	99
21) n-Hexane	3.216	56	1816929	190.6956269	ppb	88
22) TRANS-1,2-DICHLOROETHENE	3.194	96	1859438	197.3853513	ppb	98
23) METHYL TERT-BUTYL ETHER	3.242	73	5259614	204.4692568	ppb #	100
24) 1,1-DICHLOROETHANE	3.554	63	3644494	198.1300804	ppb	100
25) VINYL ACETATE	3.663	43	13567050	925.9916513	ppb	99
26) DI-ISOPROPYL ETHER	3.441	45	7850566	210.2733385	ppb	98
27) 2,2-Dichloropropane	3.920	77	1614675	179.1995013	ppb	99
28) CIS-1,2-DICHLOROETHENE	3.859	96	2064587	199.8832322	ppb	99
29) 2-BUTANONE (MEK)	4.171	72	1041519	1046.7569179	ppb	95
30) BROMOCHLOROMETHANE	3.978	130	1091344	193.3932411	ppb	95
31) TETRAHYDROFURAN	4.103	42	563310	186.7027178	ppb	98
32) CHLOROFORM	4.001	83	3251010	194.8535443	ppb	99
34) 1,1,1-TRICHLOROETHANE	4.132	97	2275729	194.9539574	ppb	99
35) CARBON TETRACHLORIDE	4.094	119	1882098	201.7889459	ppb	95

Quantitation Report (QT Reviewed)

Data Path : C:\MSDchem\1\data\112314a\
Data File : 1123 13a.D
Acq On : 24 Nov 2014 3:19 am
Operator : 644
Sample : STD VMS 200 ppb 14K20062
Misc : water IS/SURR14K01013
ALS Vial : 13 Sample Multiplier: 1
InstName : VOCMS20

Quant Time: Nov 24 12:44:17 2014
Quant Method : C:\MSDchem\1\methods\V820K23N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS20
QLast Update : Mon Nov 24 12:26:38 2014
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units		Dev(Min)
36) 1,1-Dichloropropene	4.197	75	2565645	205.0476240 ppb		99
37) 2,2,4-TRIMETHYLPENTANE	4.232	57	7837696	204.4089418 ppb		93
38) HEPTANE	4.267	43	3633444	212.2602070 ppb	#	96
39) BENZENE	4.341	78	8286045	195.4784007 ppb		98
40) 1,2-DICHLOROETHANE	4.460	62	2326013	194.8202782 ppb		100
42) TRICHLOROETHENE	4.666	130	1722305	197.6480399 ppb		99
43) 1,2-DICHLOROPROPANE	4.984	62	1553204	195.9193205 ppb		99
44) DIBROMOMETHANE	4.933	93	1012711	197.0608548 ppb		99
45) BROMODICHLOROMETHANE	5.007	83	2573398	195.5739658 ppb		97
47) 2-CHLOROETHYL VINYL ETHER	5.322	63	4217750	1328.5077710 ppb		100
48) CIS-1,3-DICHLOROPROPENE	5.386	75	3405492	210.4590761 ppb		99
49) 4-METHYL-2-PENTANONE (...	5.750	58	3495301	1072.5127125 ppb		100
51) TOLUENE	5.531	91	8245044	176.3451340 ppb		100
52) TRANS-1,3-DICHLOROPROPENE	5.788	110	687246	211.3995568 ppb		99
54) 1,1,2-TRICHLOROETHANE	5.898	97	1510318	198.7252772 ppb		99
55) TETRACHLOROETHENE	5.782	164	1150242	201.0076897 ppb		99
56) 1,3-Dichloropropane	6.084	76	2947499	194.2913940 ppb		99
57) 2-HEXANONE	6.290	58	3394146	1167.6891522 ppb		98
58) CHLORODIBROMOMETHANE	6.026	129	1544816	210.8011877 ppb		98
59) 1,2-DIBROMOETHANE	6.203	107	1457052	207.0973563 ppb		100
60) CHLOROBENZENE	6.537	112	4999207	199.8619611 ppb		99
61) 1,1,1,2-TETRACHLOROETHANE	6.570	133	1510863	199.2783534 ppb		100
62) ETHYLBENZENE	6.531	106	2740716	214.0400672 ppb		97
63) M&P-XYLENE	6.628	106	6800308	415.8883528 ppb		96
64) O-XYLENE	6.936	106	3257856	210.7498559 ppb		99
65) STYRENE	6.972	104	5575495	232.3829076 ppb		99
66) Bromoform	7.017	173	850178	217.7403818 ppb		99
67) Isopropylbenzene	7.148	105	8128697	208.6539141 ppb		99
69) Bromobenzene	7.467	77	4008037	187.6006136 ppb		99
70) 1,1,2,2-TETRACHLOROETHANE	7.508	83	1913038	195.5664674 ppb		99
71) 1,2,3-TRICHLOROPROPANE	7.627	110	536313	196.3693294 ppb		99
72) TRANS-1,4-DICHLORO-2-B...	7.644	53	586625	217.8246443 ppb		96
73) n-Propylbenzene	7.451	91	10098583	192.3058879 ppb		99
74) 4-ETHYLTOLUENE	7.528	105	8177682	195.9415598 ppb		99
75) 2-Chlorotoluene	7.589	126	1869627	190.9532455 ppb		99
76) 4-Chlorotoluene	7.714	91	6359429	195.1325667 ppb		100
77) 1,3,5-Trimethylbenzene	7.589	105	6982764	199.4462041 ppb		100
78) tert-Butylbenzene	7.836	119	5418895	198.1181762 ppb		100
79) 1,2,4-Trimethylbenzene	7.888	105	7032663	199.5856027 ppb		100
80) sec-Butylbenzene	7.971	105	8807022	199.1239572 ppb		99
81) 1,3-DICHLOROBENZENE	8.168	146	3465423	186.3808290 ppb		99
82) p-Isopropyltoluene	8.071	119	7204070	206.8501361 ppb		99
83) DICYCLOPENTADIENE	8.078	66	9372671	209.9899054 ppb		100
85) 1,4-DICHLOROBENZENE	8.232	146	3666375	197.2092315 ppb	#	35
86) 1,2,3-TRIMETHYLBENZENE	8.232	105	7629189	209.1022188 ppb		99
87) 1,2-DICHLOROBENZENE	8.570	146	3279769	198.8817740 ppb		100
88) n-Butylbenzene	8.402	91	6980135	200.4534236 ppb		99
89) 1,2-Dibromo-3-chloropr...	9.209	157	312602	236.7828943 ppb		97
90) 1,2,4-Trichlorobenzene	9.753	180	2000867	209.1941403 ppb		99
91) HEXACHLORO-1,3-BUTADIENE	9.711	225	956964	190.7744457 ppb		100
92) Naphthalene	10.033	128	5529832	230.1027944 ppb		99
93) 1,2,3-Trichlorobenzene	10.184	180	1833064	210.2143131 ppb		100
94) 1-Methylnaphthalene	10.897	142	2967208	233.5161062 ppb		99
95) 2-Methylnaphthalene	11.032	142	2485517	226.5114718 ppb		99

Quantitation Report (QT Reviewed)

Data Path : C:\MSDchem\1\data\112314a\
Data File : 1123 13a.D
Acq On : 24 Nov 2014 3:19 am
Operator : 644
Sample : STD VMS 200 ppb 14K20062
Misc : water IS/SURR14K01013
ALS Vial : 13 Sample Multiplier: 1
InstName : VOCMS20

Quant Time: Nov 24 12:44:17 2014
Quant Method : C:\MSDchem\1\methods\V820K23N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS20
QLast Update : Mon Nov 24 12:26:38 2014
Response via : Initial Calibration

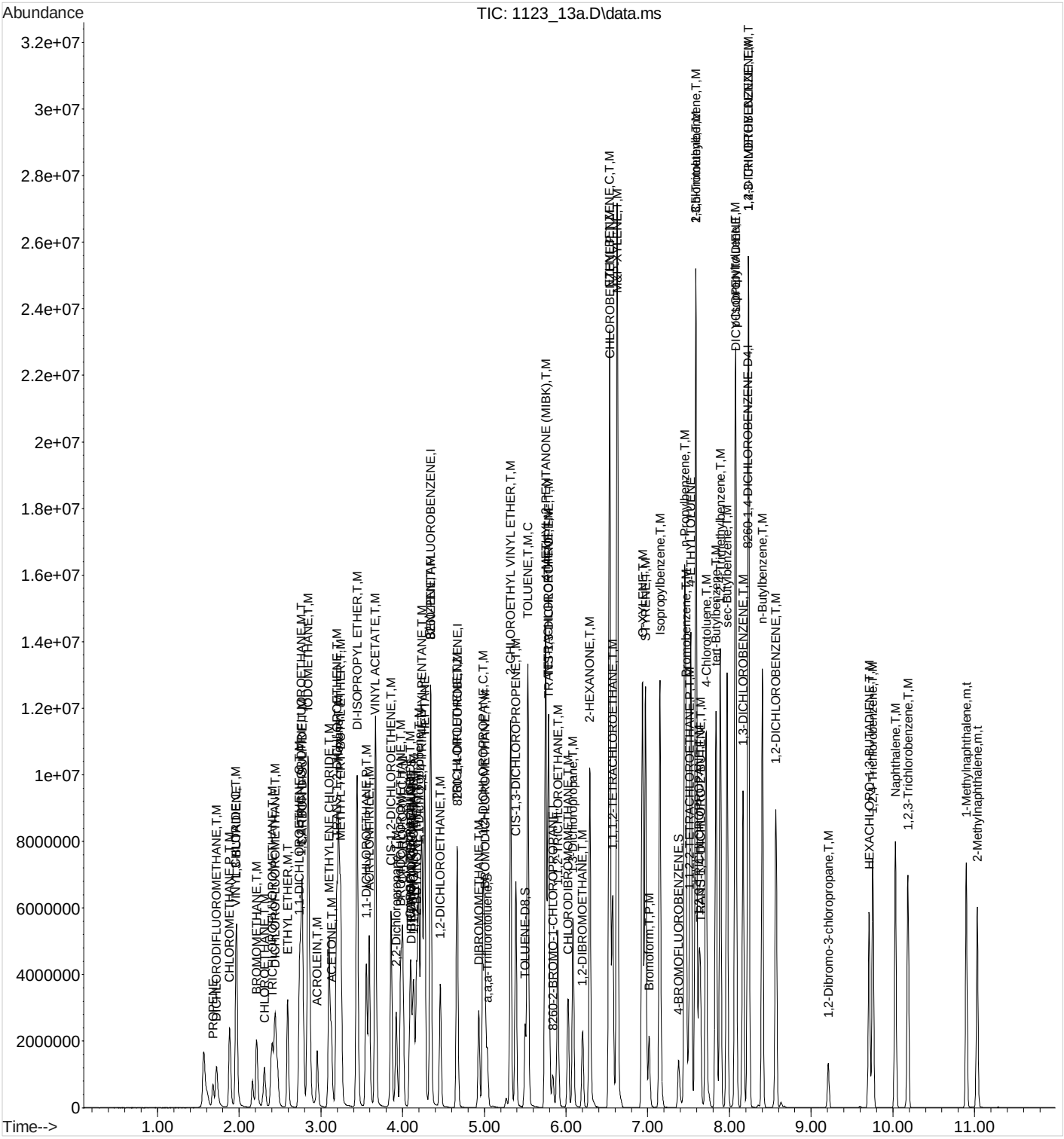
	Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
97)	ETHANOL	0.000		0	N.D.	
98)	Bromoethane	0.000		0	N.D.	d
99)	2-PROPANOL	0.000		0	N.D.	
100)	Methyl Acetate	0.000		0	N.D.	d
101)	ACETONITRILE	0.000		0	N.D.	d
102)	ALLYL CHLORIDE	0.000		0	N.D.	
103)	tert-BUTYL ALCOHOL	0.000		0	N.D.	d
104)	chloroprene	0.000		0	N.D.	d
105)	ETHYL TERT-BUTYL ETHER	0.000		0	N.D.	d
106)	PROPIONITRILE	0.000		0	N.D.	d
107)	Ethyl Acetate	0.000		0	N.D.	d
108)	METHACRYLONITRILE	0.000		0	N.D.	d
109)	Cyclohexane	0.000		0	N.D.	d
110)	tert-butyl formate	0.000		0	N.D.	d
111)	ISOBUTANOL	0.000		0	N.D.	d
112)	t-Amyl Alcohol	0.000		0	N.D.	d
113)	TERT-AMYL METHYL ETHER	0.000		0	N.D.	d
115)	N-BUTANOL	0.000		0	N.D.	d
116)	Methyl Cyclohexane	0.000		0	N.D.	d
117)	2-nitropropane	0.000		0	N.D.	d
118)	METHYL METHACRYLATE	0.000		0	N.D.	d
119)	1,4-DIOXANE	0.000		0	N.D.	d
120)	n-octane	0.000		0	N.D.	d
121)	3,3-DIMETHYL-1-BUTANOL	0.000		0	N.D.	d
123)	ETHYL METHACRYLATE	0.000		0	N.D.	d
124)	CIS-1,4-DICHLORO-2-BUTENE	0.000		0	N.D.	d
125)	Cyclohexanone	0.000		0	N.D.	d
126)	PENTACHLOROETHANE	0.000		0	N.D.	d
127)	Hexachloroethane	0.000		0	N.D.	d

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\MSDchem\1\data\112314a\
Data File : 1123 13a.D
Acq On : 24 Nov 2014 3:19 am
Operator : 644
Sample : STD VMS 200 ppb 14K20062
Misc : water IS/SURR14K01013
ALS Vial : 13 Sample Multiplier: 1
InstName : VOCMS20

Quant Time: Nov 24 12:44:17 2014
Quant Method : C:\MSDchem\1\methods\V820K23N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS20
QLast Update : Mon Nov 24 12:26:38 2014
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\MSDchem\1\data\112314a\
Data File : 1123 17A.D
Acq On : 24 Nov 2014 9:39 am
Operator : 644
Sample : STD VMS 1 ppb 14I02840
Misc : water IS/SURR14K01013
ALS Vial : 17 Sample Multiplier: 1
InstName : VOCMS20

Quant Time: Nov 24 14:24:22 2014
Quant Method : C:\MSDchem\1\methods\V820K23N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS20
QLast Update : Mon Nov 24 14:23:55 2014
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 8260-PENTAFLUOROBENZENE	0.000	168	0m	40.0000000	ppb	-4.34
41) 8260-1,4-DIFLUOROBENZENE	0.000	114	0m	40.0000000	ppb	-4.67
53) 8260-2-BROMO-1-CHLOROP...	0.000	79	0m	40.0000000	ppb	-5.84
84) 8260-1,4-DICHLOROBENZE...	0.000	152	0m	40.0000000	ppb	-8.22
96) AP9-PENTAFLUOROBENZENE	4.341	168	475450	40.0000000	ppb	0.00
114) AP9-1,4-DIFLUOROBENZENE	4.673	114	904660	40.0000000	ppb	0.00
122) AP9-2-BROMO-1-CHLOROPR...	5.840	79	147182	40.0000000	ppb	# 0.00
128) AP9-1,4-DICHLOROBENZEN...	8.219	152	367018	40.0000000	ppb	0.00
System Monitoring Compounds						
33) DIBROMOFLUOROMETHANE	0.000	111	0d	0.0000000	ppb	
Spiked Amount 40.000	Range 78 - 121		Recovery = 0.00%#			
46) a,a,a-Trifluorotoluene	0.000	146	0d	0.0000000	ppb	
Spiked Amount 40.000	Range 85 - 114		Recovery = 0.00%#			
50) TOLUENE-D8	0.000	98	0d	0.0000000	ppb	
Spiked Amount 40.000	Range 89 - 111		Recovery = 0.00%#			
68) 4-BROMOFLUOROBENZENE	0.000	95	0d	0.0000000	ppb	
Spiked Amount 40.000	Range 71 - 126		Recovery = 0.00%#			

Target Compounds				Qvalue
2) TPH (GC/MS) LOW FRACTION	0.000	0	N.D. d	
3) PROPENE	0.000	0	N.D. d	
4) DICHLORODIFLUOROMETHANE	0.000	0	N.D.	
5) CHLOROMETHANE	0.000	0	N.D. d	
6) VINYL CHLORIDE	0.000	0	N.D.	
7) 1,3-BUTADIENE	0.000	0	N.D.	
8) BROMOMETHANE	0.000	0	N.D.	
9) CHLOROETHANE	0.000	0	N.D.	
10) TRICHLOROFLUOROMETHANE	0.000	0	N.D.	
11) DICHLOROFLUOROMETHANE	0.000	0	N.D.	
12) ETHYL ETHER	0.000	0	N.D.	
13) ACROLEIN	0.000	0	N.D.	
14) 1,1-DICHLOROETHENE	0.000	0	N.D.	
15) 1,1,2-TRICHLOROTRIFLUO...	0.000	0	N.D.	
16) ACETONE	0.000	0	N.D. d	
17) IODOMETHANE	0.000	0	N.D.	
18) CARBON DISULFIDE	0.000	0	N.D. d	
19) METHYLENE CHLORIDE	0.000	0	N.D. d	
20) ACRYLONITRILE	0.000	0	N.D. d	
21) n-Hexane	0.000	0	N.D.	
22) TRANS-1,2-DICHLOROETHENE	0.000	0	N.D.	
23) METHYL TERT-BUTYL ETHER	0.000	0	N.D.	
24) 1,1-DICHLOROETHANE	0.000	0	N.D.	
25) VINYL ACETATE	0.000	0	N.D. d	
26) DI-ISOPROPYL ETHER	0.000	0	N.D.	
27) 2,2-Dichloropropane	0.000	0	N.D.	
28) CIS-1,2-DICHLOROETHENE	0.000	0	N.D.	
29) 2-BUTANONE (MEK)	0.000	0	N.D.	
30) BROMOCHLOROMETHANE	0.000	0	N.D.	
31) TETRAHYDROFURAN	0.000	0	N.D. d	
32) CHLOROFORM	0.000	0	N.D. d	
34) 1,1,1-TRICHLOROETHANE	0.000	0	N.D.	
35) CARBON TETRACHLORIDE	0.000	0	N.D.	

Quantitation Report (QT Reviewed)

Data Path : C:\MSDchem\1\data\112314a\
Data File : 1123 17A.D
Acq On : 24 Nov 2014 9:39 am
Operator : 644
Sample : STD VMS 1 ppb 14I02840
Misc : water IS/SURR14K01013
ALS Vial : 17 Sample Multiplier: 1
InstName : VOCMS20

Quant Time: Nov 24 14:24:22 2014
Quant Method : C:\MSDchem\1\methods\V820K23N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS20
QLast Update : Mon Nov 24 14:23:55 2014
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
36) 1,1-Dichloropropene	0.000		0	N.D.	
37) 2,2,4-TRIMETHYLPENTANE	0.000		0	N.D.	d
38) HEPTANE	0.000		0	N.D.	d
39) BENZENE	0.000		0	N.D.	d
40) 1,2-DICHLOROETHANE	0.000		0	N.D.	d
42) TRICHLOROETHENE	0.000		0	N.D.	d
43) 1,2-DICHLOROPROPANE	0.000		0	N.D.	d
44) DIBROMOMETHANE	0.000		0	N.D.	
45) BROMODICHLOROMETHANE	0.000		0	N.D.	
47) 2-CHLOROETHYL VINYL ETHER	0.000		0	N.D.	
48) CIS-1,3-DICHLOROPROPENE	0.000		0	N.D.	
49) 4-METHYL-2-PENTANONE (...	0.000		0	N.D.	d
51) TOLUENE	0.000		0	N.D.	d
52) TRANS-1,3-DICHLOROPROPENE	0.000		0	N.D.	
54) 1,1,2-TRICHLOROETHANE	0.000		0	N.D.	
55) TETRACHLOROETHENE	0.000		0	N.D.	d
56) 1,3-Dichloropropane	0.000		0	N.D.	d
57) 2-HEXANONE	0.000		0	N.D.	d
58) CHLORODIBROMOMETHANE	0.000		0	N.D.	
59) 1,2-DIBROMOETHANE	0.000		0	N.D.	
60) CHLOROBENZENE	0.000		0	N.D.	d
61) 1,1,1,2-TETRACHLOROETHANE	0.000		0	N.D.	
62) ETHYLBENZENE	0.000		0	N.D.	d
63) M&P-XYLENE	0.000		0	N.D.	d
64) O-XYLENE	0.000		0	N.D.	d
65) STYRENE	0.000		0	N.D.	d
66) Bromoform	0.000		0	N.D.	
67) Isopropylbenzene	0.000		0	N.D.	d
69) Bromobenzene	0.000		0	N.D.	d
70) 1,1,2,2-TETRACHLOROETHANE	0.000		0	N.D.	d
71) 1,2,3-TRICHLOROPROPANE	0.000		0	N.D.	
72) TRANS-1,4-DICHLORO-2-B...	0.000		0	N.D.	d
73) n-Propylbenzene	0.000		0	N.D.	d
74) 4-ETHYLTOLUENE	0.000		0	N.D.	d
75) 2-Chlorotoluene	0.000		0	N.D.	
76) 4-Chlorotoluene	0.000		0	N.D.	d
77) 1,3,5-Trimethylbenzene	0.000		0	N.D.	d
78) tert-Butylbenzene	0.000		0	N.D.	d
79) 1,2,4-Trimethylbenzene	0.000		0	N.D.	d
80) sec-Butylbenzene	0.000		0	N.D.	d
81) 1,3-DICHLOROBENZENE	0.000		0	N.D.	d
82) p-Isopropyltoluene	0.000		0	N.D.	d
83) DICYCLOPENTADIENE	0.000		0	N.D.	d
85) 1,4-DICHLOROBENZENE	0.000		0	N.D.	d
86) 1,2,3-TRIMETHYLBENZENE	0.000		0	N.D.	d
87) 1,2-DICHLOROBENZENE	0.000		0	N.D.	d
88) n-Butylbenzene	0.000		0	N.D.	d
89) 1,2-Dibromo-3-chloropr...	0.000		0	N.D.	
90) 1,2,4-Trichlorobenzene	0.000		0	N.D.	d
91) HEXACHLORO-1,3-BUTADIENE	0.000		0	N.D.	
92) Naphthalene	0.000		0	N.D.	d
93) 1,2,3-Trichlorobenzene	0.000		0	N.D.	d
94) 1-Methylnaphthalene	0.000		0	N.D.	d
95) 2-Methylnaphthalene	0.000		0	N.D.	d

Quantitation Report (QT Reviewed)

Data Path : C:\MSDchem\1\data\112314a\
Data File : 1123 17A.D
Acq On : 24 Nov 2014 9:39 am
Operator : 644
Sample : STD VMS 1 ppb 14I02840
Misc : water IS/SURR14K01013
ALS Vial : 17 Sample Multiplier: 1
InstName : VOCMS20

Quant Time: Nov 24 14:24:22 2014
Quant Method : C:\MSDchem\1\methods\V820K23N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS20
QLast Update : Mon Nov 24 14:23:55 2014
Response via : Initial Calibration

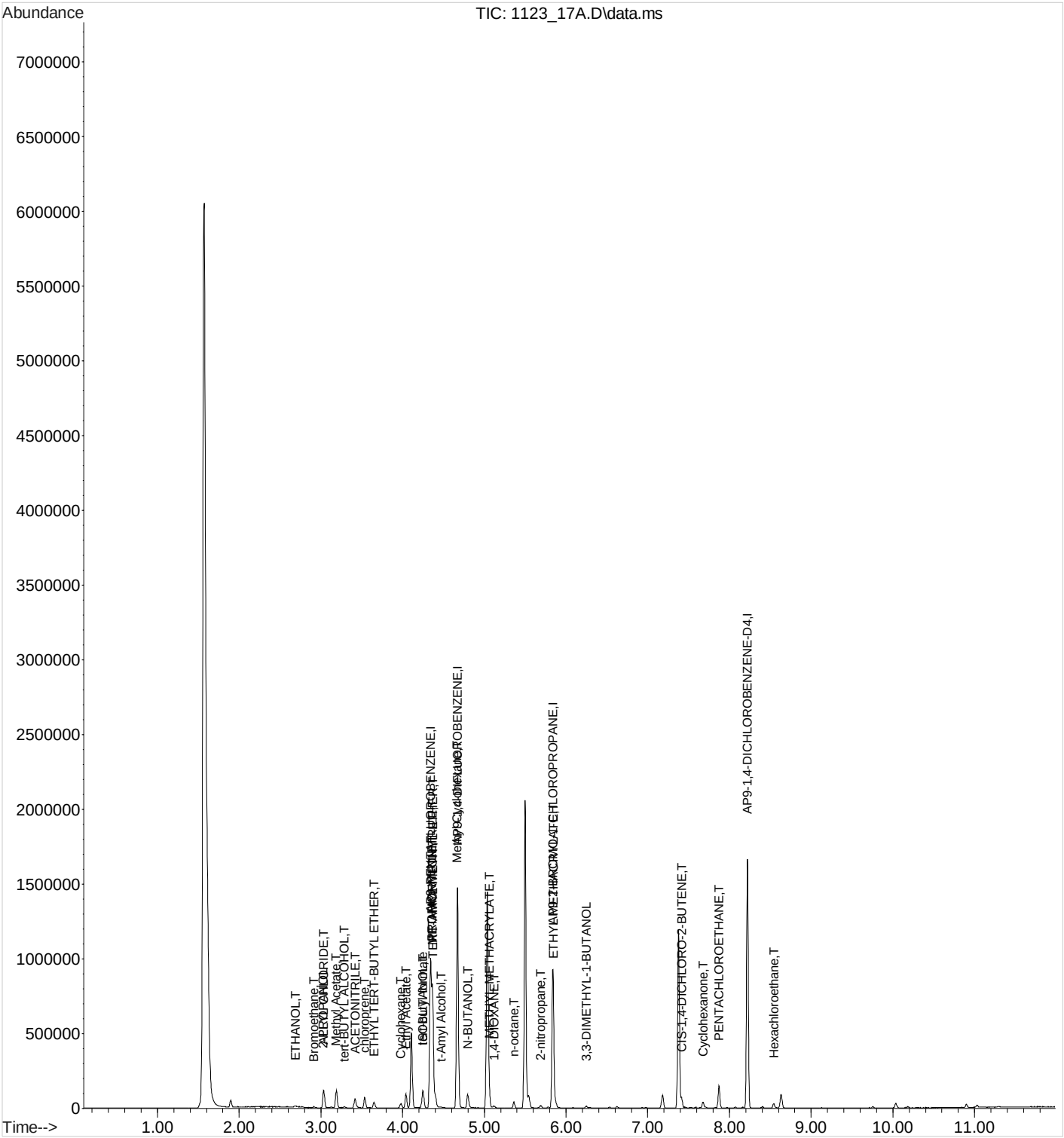
	Compound	R.T.	QIon	Response	Conc Units		Dev(Min)
97)	ETHANOL	2.685	45	10341	140.0398409 ppb	#	84
98)	Bromoethane	2.911	108	5721	1.1296649 ppb		94
99)	2-PROPANOL	3.026	45	6028	12.6109725 ppb	#	81
100)	Methyl Acetate	3.187	43	128432	22.9040152 ppb	#	97
101)	ACETONITRILE	3.419	41	62456	56.3814588 ppb		97
102)	ALLYL CHLORIDE	3.033	76	22374	5.4886664 ppb		99
103)	tert-BUTYL ALCOHOL	3.287	59	8152	6.9685164 ppb	#	79
104)	chloroprene	3.534	53	36720	5.1046009 ppb		99
105)	ETHYL TERT-BUTYL ETHER	3.650	59	27389	1.1107109 ppb		96
106)	PROPIONITRILE	4.357	54	62029	57.0655750 ppb	#	88
107)	Ethyl Acetate	4.039	43	85164	10.8088299 ppb		99
108)	METHACRYLONITRILE	4.367	67	184311	56.6919198 ppb		98
109)	Cyclohexane	3.978	84	8935	0.9562545 ppb		88
110)	tert-butyl formate	4.248	59	44918	8.2838633 ppb		90
111)	ISOBUTANOL	4.248	41	40781	95.8359908 ppb	#	97
112)	t-Amyl Alcohol	4.470	59	2877	5.5116053 ppb		99
113)	TERT-AMYL METHYL ETHER	4.370	73	24831	1.1306800 ppb	#	61
115)	N-BUTANOL	4.795	56	43982	196.0875108 ppb		94
116)	Methyl Cyclohexane	4.666	83	24947	2.0058353 ppb	#	75
117)	2-nitropropane	5.689	43	10335	5.8200901 ppb		90
118)	METHYL METHACRYLATE	5.062	41	38455	5.3424827 ppb	#	23
119)	1,4-DIOXANE	5.123	88	7106	98.9994997 ppb	#	90
120)	n-octane	5.361	85	6229	0.9924271 ppb		96
121)	3,3-DIMETHYL-1-BUTANOL	6.248	57	6378	12.0131322 ppb	#	90
123)	ETHYL METHACRYLATE	5.846	69	50540	5.0216400 ppb	#	1
124)	CIS-1,4-DICHLORO-2-BUTENE	7.415	53	14189	5.3594199 ppb	#	28
125)	Cyclohexanone	7.676	55	16347	18.0404112 ppb		95
126)	PENTACHLOROETHANE	7.872	117	27141	5.3816021 ppb		98
127)	Hexachloroethane	8.544	117	6301	1.1224717 ppb		98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\MSDchem\1\data\112314a\
Data File : 1123 17A.D
Acq On : 24 Nov 2014 9:39 am
Operator : 644
Sample : STD VMS 1 ppb 14I02840
Misc : water IS/SURR14K01013
ALS Vial : 17 Sample Multiplier: 1
InstName : VOCMS20

Quant Time: Nov 24 14:24:22 2014
Quant Method : C:\MSDchem\1\methods\V820K23N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS20
QLast Update : Mon Nov 24 14:23:55 2014
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\MSDchem\1\data\112314a\
Data File : 1123 18A.D
Acq On : 24 Nov 2014 9:57 am
Operator : 644
Sample : STD VMS 2.5 ppb 14I02840
Misc : water IS/SURR14K01013
ALS Vial : 18 Sample Multiplier: 1
InstName : VOCMS20

Quant Time: Nov 24 14:25:13 2014
Quant Method : C:\MSDchem\1\methods\V820K23N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS20
QLast Update : Mon Nov 24 14:24:49 2014
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 8260-PENTAFLUOROBENZENE	0.000	168	0m	40.0000000	ppb	-4.34
41) 8260-1,4-DIFLUOROBENZENE	0.000	114	0m	40.0000000	ppb	-4.67
53) 8260-2-BROMO-1-CHLOROP...	0.000	79	0m	40.0000000	ppb	-5.84
84) 8260-1,4-DICHLOROBENZE...	0.000	152	0m	40.0000000	ppb	-8.22
96) AP9-PENTAFLUOROBENZENE	4.341	168	484102	40.0000000	ppb	0.00
114) AP9-1,4-DIFLUOROBENZENE	4.673	114	916536	40.0000000	ppb	0.00
122) AP9-2-BROMO-1-CHLOROPR...	5.840	79	153319	40.0000000	ppb	# 0.00
128) AP9-1,4-DICHLOROBENZEN...	8.219	152	373022	40.0000000	ppb	0.00
System Monitoring Compounds						
33) DIBROMOFLUOROMETHANE	0.000	111	0d	0.0000000	ppb	
Spiked Amount 40.000	Range 78 - 121		Recovery = 0.00%#			
46) a,a,a-Trifluorotoluene	0.000	146	0d	0.0000000	ppb	
Spiked Amount 40.000	Range 85 - 114		Recovery = 0.00%#			
50) TOLUENE-D8	0.000	98	0d	0.0000000	ppb	
Spiked Amount 40.000	Range 89 - 111		Recovery = 0.00%#			
68) 4-BROMOFLUOROBENZENE	0.000	95	0d	0.0000000	ppb	
Spiked Amount 40.000	Range 71 - 126		Recovery = 0.00%#			

Target Compounds				Qvalue
2) TPH (GC/MS) LOW FRACTION	0.000	0	N.D. d	
3) PROPENE	0.000	0	N.D. d	
4) DICHLORODIFLUOROMETHANE	0.000	0	N.D.	
5) CHLOROMETHANE	0.000	0	N.D. d	
6) VINYL CHLORIDE	0.000	0	N.D.	
7) 1,3-BUTADIENE	0.000	0	N.D. d	
8) BROMOMETHANE	0.000	0	N.D.	
9) CHLOROETHANE	0.000	0	N.D.	
10) TRICHLOROFLUOROMETHANE	0.000	0	N.D.	
11) DICHLOROFLUOROMETHANE	0.000	0	N.D.	
12) ETHYL ETHER	0.000	0	N.D.	
13) ACROLEIN	0.000	0	N.D.	
14) 1,1-DICHLOROETHENE	0.000	0	N.D.	
15) 1,1,2-TRICHLOROTRIFLUO...	0.000	0	N.D.	
16) ACETONE	0.000	0	N.D. d	
17) IODOMETHANE	0.000	0	N.D.	
18) CARBON DISULFIDE	0.000	0	N.D. d	
19) METHYLENE CHLORIDE	0.000	0	N.D. d	
20) ACRYLONITRILE	0.000	0	N.D. d	
21) n-Hexane	0.000	0	N.D. d	
22) TRANS-1,2-DICHLOROETHENE	0.000	0	N.D.	
23) METHYL TERT-BUTYL ETHER	0.000	0	N.D.	
24) 1,1-DICHLOROETHANE	0.000	0	N.D. d	
25) VINYL ACETATE	0.000	0	N.D. d	
26) DI-ISOPROPYL ETHER	0.000	0	N.D.	
27) 2,2-Dichloropropane	0.000	0	N.D.	
28) CIS-1,2-DICHLOROETHENE	0.000	0	N.D.	
29) 2-BUTANONE (MEK)	0.000	0	N.D.	
30) BROMOCHLOROMETHANE	0.000	0	N.D.	
31) TETRAHYDROFURAN	0.000	0	N.D. d	
32) CHLOROFORM	0.000	0	N.D. d	
34) 1,1,1-TRICHLOROETHANE	0.000	0	N.D.	
35) CARBON TETRACHLORIDE	0.000	0	N.D.	

Quantitation Report (QT Reviewed)

Data Path : C:\MSDchem\1\data\112314a\
Data File : 1123 18A.D
Acq On : 24 Nov 2014 9:57 am
Operator : 644
Sample : STD VMS 2.5 ppb 14I02840
Misc : water IS/SURR14K01013
ALS Vial : 18 Sample Multiplier: 1
InstName : VOCMS20

Quant Time: Nov 24 14:25:13 2014
Quant Method : C:\MSDchem\1\methods\V820K23N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS20
QLast Update : Mon Nov 24 14:24:49 2014
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
36) 1,1-Dichloropropene	0.000		0	N.D.	
37) 2,2,4-TRIMETHYLPENTANE	0.000		0	N.D.	d
38) HEPTANE	0.000		0	N.D.	d
39) BENZENE	0.000		0	N.D.	d
40) 1,2-DICHLOROETHANE	0.000		0	N.D.	d
42) TRICHLOROETHENE	0.000		0	N.D.	d
43) 1,2-DICHLOROPROPANE	0.000		0	N.D.	d
44) DIBROMOMETHANE	0.000		0	N.D.	d
45) BROMODICHLOROMETHANE	0.000		0	N.D.	
47) 2-CHLOROETHYL VINYL ETHER	0.000		0	N.D.	
48) CIS-1,3-DICHLOROPROPENE	0.000		0	N.D.	
49) 4-METHYL-2-PENTANONE (...	0.000		0	N.D.	d
51) TOLUENE	0.000		0	N.D.	d
52) TRANS-1,3-DICHLOROPROPENE	0.000		0	N.D.	
54) 1,1,2-TRICHLOROETHANE	0.000		0	N.D.	
55) TETRACHLOROETHENE	0.000		0	N.D.	d
56) 1,3-Dichloropropane	0.000		0	N.D.	d
57) 2-HEXANONE	0.000		0	N.D.	d
58) CHLORODIBROMOMETHANE	0.000		0	N.D.	
59) 1,2-DIBROMOETHANE	0.000		0	N.D.	
60) CHLOROBENZENE	0.000		0	N.D.	d
61) 1,1,1,2-TETRACHLOROETHANE	0.000		0	N.D.	d
62) ETHYLBENZENE	0.000		0	N.D.	d
63) M&P-XYLENE	0.000		0	N.D.	d
64) O-XYLENE	0.000		0	N.D.	d
65) STYRENE	0.000		0	N.D.	d
66) Bromoform	0.000		0	N.D.	
67) Isopropylbenzene	0.000		0	N.D.	d
69) Bromobenzene	0.000		0	N.D.	d
70) 1,1,2,2-TETRACHLOROETHANE	0.000		0	N.D.	d
71) 1,2,3-TRICHLOROPROPANE	0.000		0	N.D.	
72) TRANS-1,4-DICHLORO-2-B...	0.000		0	N.D.	d
73) n-Propylbenzene	0.000		0	N.D.	d
74) 4-ETHYLTOLUENE	0.000		0	N.D.	d
75) 2-Chlorotoluene	0.000		0	N.D.	
76) 4-Chlorotoluene	0.000		0	N.D.	d
77) 1,3,5-Trimethylbenzene	0.000		0	N.D.	d
78) tert-Butylbenzene	0.000		0	N.D.	d
79) 1,2,4-Trimethylbenzene	0.000		0	N.D.	d
80) sec-Butylbenzene	0.000		0	N.D.	d
81) 1,3-DICHLOROBENZENE	0.000		0	N.D.	d
82) p-Isopropyltoluene	0.000		0	N.D.	d
83) DICYCLOPENTADIENE	0.000		0	N.D.	d
85) 1,4-DICHLOROBENZENE	0.000		0	N.D.	d
86) 1,2,3-TRIMETHYLBENZENE	0.000		0	N.D.	d
87) 1,2-DICHLOROBENZENE	0.000		0	N.D.	d
88) n-Butylbenzene	0.000		0	N.D.	d
89) 1,2-Dibromo-3-chloropr...	0.000		0	N.D.	
90) 1,2,4-Trichlorobenzene	0.000		0	N.D.	d
91) HEXACHLORO-1,3-BUTADIENE	0.000		0	N.D.	
92) Naphthalene	0.000		0	N.D.	d
93) 1,2,3-Trichlorobenzene	0.000		0	N.D.	d
94) 1-Methylnaphthalene	0.000		0	N.D.	d
95) 2-Methylnaphthalene	0.000		0	N.D.	d

Quantitation Report (QT Reviewed)

Data Path : C:\MSDchem\1\data\112314a\
Data File : 1123 18A.D
Acq On : 24 Nov 2014 9:57 am
Operator : 644
Sample : STD VMS 2.5 ppb 14I02840
Misc : water IS/SURR14K01013
ALS Vial : 18 Sample Multiplier: 1
InstName : VOCMS20

Quant Time: Nov 24 14:25:13 2014
Quant Method : C:\MSDchem\1\methods\V820K23N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS20
QLast Update : Mon Nov 24 14:24:49 2014
Response via : Initial Calibration

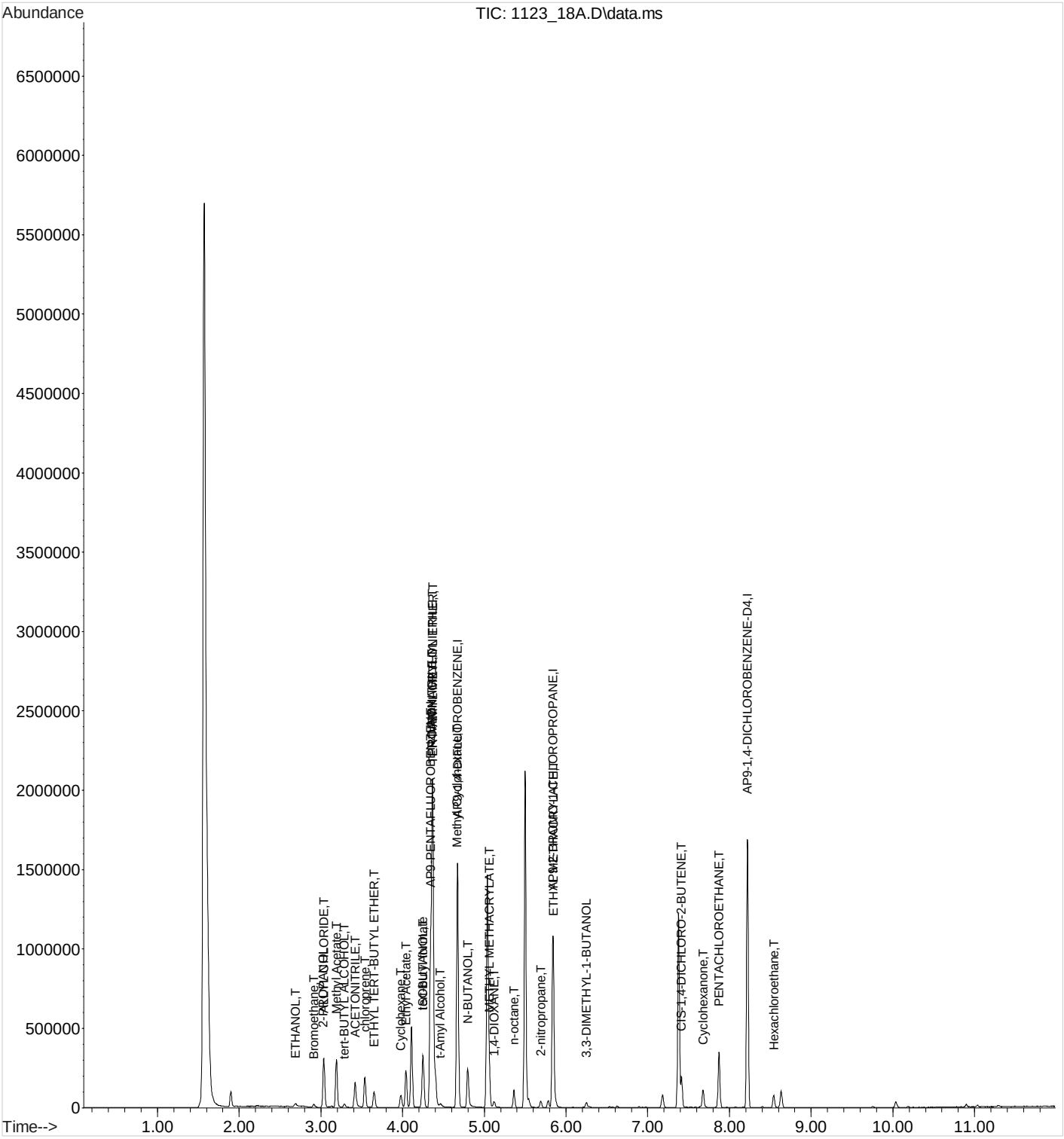
	Compound	R.T.	QIon	Response	Conc Units		Dev(Min)
97)	ETHANOL	2.689	45	24486	271.3448330 ppb	#	99
98)	Bromoethane	2.914	108	14904	2.7143586 ppb		92
99)	2-PROPANOL	3.026	45	10358	12.0847001 ppb		96
100)	Methyl Acetate	3.190	43	331650	54.1562280 ppb	#	98
101)	ACETONITRILE	3.419	41	160407	133.6864812 ppb		98
102)	ALLYL CHLORIDE	3.036	76	59048	13.5636350 ppb		100
103)	tert-BUTYL ALCOHOL	3.287	59	20438	14.3364692 ppb		96
104)	chloroprene	3.538	53	99292	13.4159734 ppb		98
105)	ETHYL TERT-BUTYL ETHER	3.650	59	70244	2.6509609 ppb		97
106)	PROPIONITRILE	4.361	54	163362	137.8632717 ppb		97
107)	Ethyl Acetate	4.039	43	227531	27.2592258 ppb		99
108)	METHACRYLONITRILE	4.367	67	476108	134.8068102 ppb		99
109)	Cyclohexane	3.978	84	25555	2.7461701 ppb		97
110)	tert-butyl formate	4.248	59	129429	25.6433117 ppb		94
111)	ISOBUTANOL	4.248	41	113177	266.7684129 ppb	#	97
112)	t-Amyl Alcohol	4.460	59	8265	14.7938099 ppb		99
113)	TERT-AMYL METHYL ETHER	4.370	73	61504	2.5818358 ppb	#	84
115)	N-BUTANOL	4.795	56	127755	567.7505563 ppb		98
116)	Methyl Cyclohexane	4.666	83	45807	2.4188530 ppb		89
117)	2-nitropropane	5.692	43	25080	12.8840305 ppb		96
118)	METHYL METHACRYLATE	5.062	41	100205	13.2858932 ppb	#	75
119)	1,4-DIOXANE	5.120	88	20234	279.6426530 ppb		96
120)	n-octane	5.364	85	17684	2.7915422 ppb		99
121)	3,3-DIMETHYL-1-BUTANOL	6.248	57	15726	26.5628107 ppb		92
123)	ETHYL METHACRYLATE	5.846	69	136213	12.9642925 ppb	#	1
124)	CIS-1,4-DICHLORO-2-BUTENE	7.412	53	39542	13.8403768 ppb		91
125)	Cyclohexanone	7.676	55	43052	32.5316463 ppb		98
126)	PENTACHLOROETHANE	7.872	117	65251	11.9637479 ppb		99
127)	Hexachloroethane	8.541	117	17037	2.7454014 ppb		95

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\MSDchem\1\data\112314a\
Data File : 1123 18A.D
Acq On : 24 Nov 2014 9:57 am
Operator : 644
Sample : STD VMS 2.5 ppb 14I02840
Misc : water IS/SURR14K01013
ALS Vial : 18 Sample Multiplier: 1
InstName : VOCMS20

Quant Time: Nov 24 14:25:13 2014
Quant Method : C:\MSDchem\1\methods\V820K23N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS20
QLast Update : Mon Nov 24 14:24:49 2014
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\MSDchem\1\data\112314a\
Data File : 1123 19A.D
Acq On : 24 Nov 2014 10:15 am
Operator : 644
Sample : STD VMS 5 ppb 14I02840
Misc : water IS/SURR14K01013
ALS Vial : 19 Sample Multiplier: 1
InstName : VOCMS20

Quant Time: Nov 24 14:26:05 2014
Quant Method : C:\MSDchem\1\methods\V820K23N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS20
QLast Update : Mon Nov 24 14:25:38 2014
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 8260-PENTAFLUOROBENZENE	0.000	168	0m	40.0000000	ppb	-4.34
41) 8260-1,4-DIFLUOROBENZENE	0.000	114	0m	40.0000000	ppb	-4.67
53) 8260-2-BROMO-1-CHLOROP...	0.000	79	0m	40.0000000	ppb	-5.84
84) 8260-1,4-DICHLOROBENZE...	0.000	152	0m	40.0000000	ppb	-8.22
96) AP9-PENTAFLUOROBENZENE	4.341	168	474568	40.0000000	ppb	0.00
114) AP9-1,4-DIFLUOROBENZENE	4.669	114	897325	40.0000000	ppb	0.00
122) AP9-2-BROMO-1-CHLOROPR...	5.837	79	152489	40.0000000	ppb	# 0.00
128) AP9-1,4-DICHLOROBENZEN...	8.219	152	371837	40.0000000	ppb	0.00
System Monitoring Compounds						
33) DIBROMOFLUOROMETHANE	0.000	111	0d	0.0000000	ppb	
Spiked Amount 40.000	Range 78 - 121		Recovery = 0.00%#			
46) a,a,a-Trifluorotoluene	0.000	146	0d	0.0000000	ppb	
Spiked Amount 40.000	Range 85 - 114		Recovery = 0.00%#			
50) TOLUENE-D8	0.000	98	0d	0.0000000	ppb	
Spiked Amount 40.000	Range 89 - 111		Recovery = 0.00%#			
68) 4-BROMOFLUOROBENZENE	0.000	95	0d	0.0000000	ppb	
Spiked Amount 40.000	Range 71 - 126		Recovery = 0.00%#			

Target Compounds				Qvalue
2) TPH (GC/MS) LOW FRACTION	0.000	0	N.D. d	
3) PROPENE	0.000	0	N.D. d	
4) DICHLORODIFLUOROMETHANE	0.000	0	N.D.	
5) CHLOROMETHANE	0.000	0	N.D. d	
6) VINYL CHLORIDE	0.000	0	N.D.	
7) 1,3-BUTADIENE	0.000	0	N.D. d	
8) BROMOMETHANE	0.000	0	N.D.	
9) CHLOROETHANE	0.000	0	N.D.	
10) TRICHLOROFLUOROMETHANE	0.000	0	N.D.	
11) DICHLOROFLUOROMETHANE	0.000	0	N.D.	
12) ETHYL ETHER	0.000	0	N.D.	
13) ACROLEIN	0.000	0	N.D.	
14) 1,1-DICHLOROETHENE	0.000	0	N.D.	
15) 1,1,2-TRICHLOROTRIFLUO...	0.000	0	N.D.	
16) ACETONE	0.000	0	N.D. d	
17) IODOMETHANE	0.000	0	N.D. d	
18) CARBON DISULFIDE	0.000	0	N.D. d	
19) METHYLENE CHLORIDE	0.000	0	N.D. d	
20) ACRYLONITRILE	0.000	0	N.D. d	
21) n-Hexane	0.000	0	N.D. d	
22) TRANS-1,2-DICHLOROETHENE	0.000	0	N.D.	
23) METHYL TERT-BUTYL ETHER	0.000	0	N.D. d	
24) 1,1-DICHLOROETHANE	0.000	0	N.D. d	
25) VINYL ACETATE	0.000	0	N.D. d	
26) DI-ISOPROPYL ETHER	0.000	0	N.D.	
27) 2,2-Dichloropropane	0.000	0	N.D. d	
28) CIS-1,2-DICHLOROETHENE	0.000	0	N.D.	
29) 2-BUTANONE (MEK)	0.000	0	N.D.	
30) BROMOCHLOROMETHANE	0.000	0	N.D.	
31) TETRAHYDROFURAN	0.000	0	N.D. d	
32) CHLOROFORM	0.000	0	N.D. d	
34) 1,1,1-TRICHLOROETHANE	0.000	0	N.D.	
35) CARBON TETRACHLORIDE	0.000	0	N.D.	

Quantitation Report (QT Reviewed)

Data Path : C:\MSDchem\1\data\112314a\
Data File : 1123 19A.D
Acq On : 24 Nov 2014 10:15 am
Operator : 644
Sample : STD VMS 5 ppb 14I02840
Misc : water IS/SURR14K01013
ALS Vial : 19 Sample Multiplier: 1
InstName : VOCMS20

Quant Time: Nov 24 14:26:05 2014
Quant Method : C:\MSDchem\1\methods\V820K23N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS20
QLast Update : Mon Nov 24 14:25:38 2014
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
36) 1,1-Dichloropropene	0.000		0	N.D.	
37) 2,2,4-TRIMETHYLPENTANE	0.000		0	N.D.	d
38) HEPTANE	0.000		0	N.D.	d
39) BENZENE	0.000		0	N.D.	d
40) 1,2-DICHLOROETHANE	0.000		0	N.D.	d
42) TRICHLOROETHENE	0.000		0	N.D.	d
43) 1,2-DICHLOROPROPANE	0.000		0	N.D.	d
44) DIBROMOMETHANE	0.000		0	N.D.	d
45) BROMODICHLOROMETHANE	0.000		0	N.D.	d
47) 2-CHLOROETHYL VINYL ETHER	0.000		0	N.D.	
48) CIS-1,3-DICHLOROPROPENE	0.000		0	N.D.	
49) 4-METHYL-2-PENTANONE (...	0.000		0	N.D.	d
51) TOLUENE	0.000		0	N.D.	d
52) TRANS-1,3-DICHLOROPROPENE	0.000		0	N.D.	
54) 1,1,2-TRICHLOROETHANE	0.000		0	N.D.	d
55) TETRACHLOROETHENE	0.000		0	N.D.	d
56) 1,3-Dichloropropane	0.000		0	N.D.	d
57) 2-HEXANONE	0.000		0	N.D.	d
58) CHLORODIBROMOMETHANE	0.000		0	N.D.	
59) 1,2-DIBROMOETHANE	0.000		0	N.D.	
60) CHLOROBENZENE	0.000		0	N.D.	d
61) 1,1,1,2-TETRACHLOROETHANE	0.000		0	N.D.	d
62) ETHYLBENZENE	0.000		0	N.D.	d
63) M&P-XYLENE	0.000		0	N.D.	d
64) O-XYLENE	0.000		0	N.D.	d
65) STYRENE	0.000		0	N.D.	d
66) Bromoform	0.000		0	N.D.	
67) Isopropylbenzene	0.000		0	N.D.	d
69) Bromobenzene	0.000		0	N.D.	d
70) 1,1,2,2-TETRACHLOROETHANE	0.000		0	N.D.	d
71) 1,2,3-TRICHLOROPROPANE	0.000		0	N.D.	
72) TRANS-1,4-DICHLORO-2-B...	0.000		0	N.D.	d
73) n-Propylbenzene	0.000		0	N.D.	d
74) 4-ETHYLTOLUENE	0.000		0	N.D.	d
75) 2-Chlorotoluene	0.000		0	N.D.	
76) 4-Chlorotoluene	0.000		0	N.D.	d
77) 1,3,5-Trimethylbenzene	0.000		0	N.D.	d
78) tert-Butylbenzene	0.000		0	N.D.	d
79) 1,2,4-Trimethylbenzene	0.000		0	N.D.	d
80) sec-Butylbenzene	0.000		0	N.D.	d
81) 1,3-DICHLOROBENZENE	0.000		0	N.D.	d
82) p-Isopropyltoluene	0.000		0	N.D.	d
83) DICYCLOPENTADIENE	0.000		0	N.D.	d
85) 1,4-DICHLOROBENZENE	0.000		0	N.D.	d
86) 1,2,3-TRIMETHYLBENZENE	0.000		0	N.D.	d
87) 1,2-DICHLOROBENZENE	0.000		0	N.D.	d
88) n-Butylbenzene	0.000		0	N.D.	d
89) 1,2-Dibromo-3-chloropr...	0.000		0	N.D.	
90) 1,2,4-Trichlorobenzene	0.000		0	N.D.	d
91) HEXACHLORO-1,3-BUTADIENE	0.000		0	N.D.	
92) Naphthalene	0.000		0	N.D.	d
93) 1,2,3-Trichlorobenzene	0.000		0	N.D.	d
94) 1-Methylnaphthalene	0.000		0	N.D.	d
95) 2-Methylnaphthalene	0.000		0	N.D.	d

Quantitation Report (QT Reviewed)

Data Path : C:\MSDchem\1\data\112314a\
Data File : 1123 19A.D
Acq On : 24 Nov 2014 10:15 am
Operator : 644
Sample : STD VMS 5 ppb 14I02840
Misc : water IS/SURR14K01013
ALS Vial : 19 Sample Multiplier: 1
InstName : VOCMS20

Quant Time: Nov 24 14:26:05 2014
Quant Method : C:\MSDchem\1\methods\V820K23N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS20
QLast Update : Mon Nov 24 14:25:38 2014
Response via : Initial Calibration

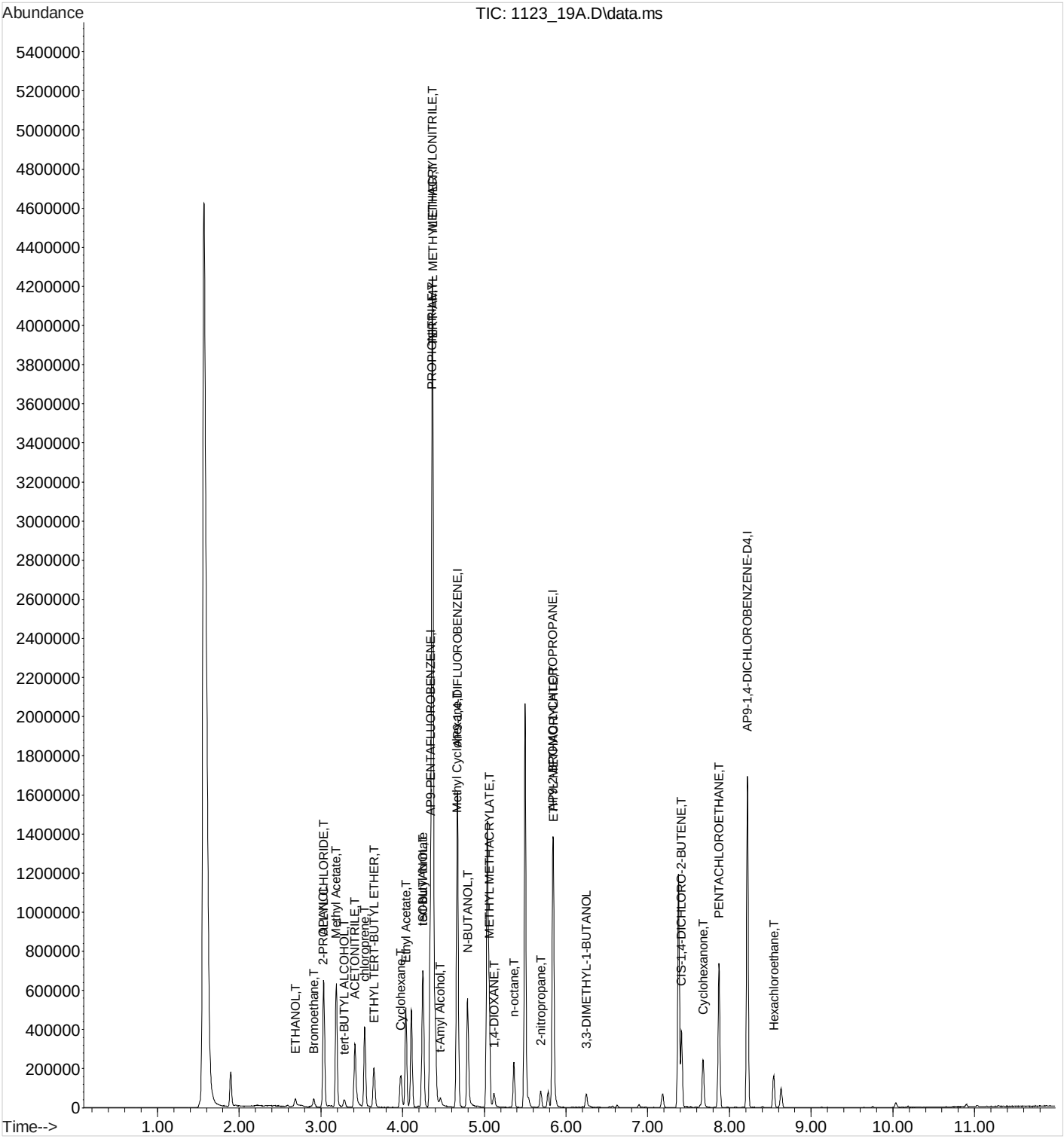
	Compound	R.T.	QIon	Response	Conc Units		Dev(Min)
97)	ETHANOL	2.686	45	46212	507.9366972 ppb	#	99
98)	Bromoethane	2.911	108	30887	5.5787895 ppb		98
99)	2-PROPANOL	3.026	45	17868	21.5035834 ppb		96
100)	Methyl Acetate	3.187	43	679343	110.1098374 ppb	#	100
101)	ACETONITRILE	3.415	41	337721	280.6179443 ppb		99
102)	ALLYL CHLORIDE	3.033	76	124945	28.4696097 ppb		95
103)	tert-BUTYL ALCOHOL	3.284	59	39581	27.0000702 ppb		96
104)	chloroprene	3.534	53	214353	28.8400061 ppb		99
105)	ETHYL TERT-BUTYL ETHER	3.650	59	150104	5.6646105 ppb		98
106)	PROPIONITRILE	4.358	54	337724	281.0933045 ppb		99
107)	Ethyl Acetate	4.039	43	475046	56.3583078 ppb		100
108)	METHACRYLONITRILE	4.364	67	982549	276.5588218 ppb		100
109)	Cyclohexane	3.978	84	55819	5.9244258 ppb		98
110)	tert-butyl formate	4.248	59	287567	57.6249708 ppb		98
111)	ISOBUTANOL	4.248	41	234908	552.4710308 ppb	#	98
112)	t-Amyl Alcohol	4.460	59	17720	30.4898345 ppb		96
113)	TERT-AMYL METHYL ETHER	4.370	73	131538	5.5718806 ppb	#	95
115)	N-BUTANOL	4.795	56	275287	1195.5821461 ppb		99
116)	Methyl Cyclohexane	4.663	83	82810	4.5152798 ppb		96
117)	2-nitropropane	5.692	43	51425	26.7099676 ppb		99
118)	METHYL METHACRYLATE	5.058	41	218068	28.9258114 ppb		95
119)	1,4-DIOXANE	5.120	88	43176	586.3129763 ppb		96
120)	n-octane	5.361	85	36738	5.7018633 ppb		97
121)	3,3-DIMETHYL-1-BUTANOL	6.248	57	32031	54.1339115 ppb		98
123)	ETHYL METHACRYLATE	5.846	69	296258	28.0035936 ppb	#	66
124)	CIS-1,4-DICHLORO-2-BUTENE	7.412	53	78541	26.6864622 ppb		97
125)	Cyclohexanone	7.676	55	95212	65.7359002 ppb		99
126)	PENTACHLOROETHANE	7.872	117	136362	25.5027006 ppb		98
127)	Hexachloroethane	8.541	117	36039	5.6540580 ppb		93

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\MSDchem\1\data\112314a\
Data File : 1123 19A.D
Acq On : 24 Nov 2014 10:15 am
Operator : 644
Sample : STD VMS 5 ppb 14I02840
Misc : water IS/SURR14K01013
ALS Vial : 19 Sample Multiplier: 1
InstName : VOCMS20

Quant Time: Nov 24 14:26:05 2014
Quant Method : C:\MSDchem\1\methods\V820K23N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS20
QLast Update : Mon Nov 24 14:25:38 2014
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\MSDchem\1\data\112314a\
Data File : 1123 20A.D
Acq On : 24 Nov 2014 10:33 am
Operator : 644
Sample : STD VMS 7.5 ppb 14I02840
Misc : water IS/SURR14K01013
ALS Vial : 20 Sample Multiplier: 1
InstName : VOCMS20

Quant Time: Nov 24 14:26:56 2014
Quant Method : C:\MSDchem\1\methods\V820K23N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS20
QLast Update : Mon Nov 24 14:26:30 2014
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 8260-PENTAFLUOROBENZENE	0.000	168	0m	40.0000000	ppb	-4.34
41) 8260-1,4-DIFLUOROBENZENE	0.000	114	0m	40.0000000	ppb	-4.67
53) 8260-2-BROMO-1-CHLOROP...	0.000	79	0m	40.0000000	ppb	-5.84
84) 8260-1,4-DICHLOROBENZE...	0.000	152	0m	40.0000000	ppb	-8.22
96) AP9-PENTAFLUOROBENZENE	4.341	168	483961	40.0000000	ppb	0.00
114) AP9-1,4-DIFLUOROBENZENE	4.673	114	910615	40.0000000	ppb	0.00
122) AP9-2-BROMO-1-CHLOROPR...	5.837	79	152582	40.0000000	ppb	0.00
128) AP9-1,4-DICHLOROBENZEN...	8.219	152	372064	40.0000000	ppb	0.00
System Monitoring Compounds						
33) DIBROMOFLUOROMETHANE	0.000	111	0d	0.0000000	ppb	
Spiked Amount 40.000	Range 78 - 121		Recovery = 0.00%#			
46) a,a,a-Trifluorotoluene	0.000	146	0d	0.0000000	ppb	
Spiked Amount 40.000	Range 85 - 114		Recovery = 0.00%#			
50) TOLUENE-D8	0.000	98	0d	0.0000000	ppb	
Spiked Amount 40.000	Range 89 - 111		Recovery = 0.00%#			
68) 4-BROMOFLUOROBENZENE	0.000	95	0d	0.0000000	ppb	
Spiked Amount 40.000	Range 71 - 126		Recovery = 0.00%#			

Target Compounds				Qvalue
2) TPH (GC/MS) LOW FRACTION	0.000	0	N.D. d	
3) PROPENE	0.000	0	N.D. d	
4) DICHLORODIFLUOROMETHANE	0.000	0	N.D.	
5) CHLOROMETHANE	0.000	0	N.D. d	
6) VINYL CHLORIDE	0.000	0	N.D.	
7) 1,3-BUTADIENE	0.000	0	N.D. d	
8) BROMOMETHANE	0.000	0	N.D.	
9) CHLOROETHANE	0.000	0	N.D.	
10) TRICHLOROFLUOROMETHANE	0.000	0	N.D.	
11) DICHLOROFLUOROMETHANE	0.000	0	N.D.	
12) ETHYL ETHER	0.000	0	N.D.	
13) ACROLEIN	0.000	0	N.D.	
14) 1,1-DICHLOROETHENE	0.000	0	N.D.	
15) 1,1,2-TRICHLOROTRIFLUO...	0.000	0	N.D.	
16) ACETONE	0.000	0	N.D. d	
17) IODOMETHANE	0.000	0	N.D. d	
18) CARBON DISULFIDE	0.000	0	N.D. d	
19) METHYLENE CHLORIDE	0.000	0	N.D. d	
20) ACRYLONITRILE	0.000	0	N.D. d	
21) n-Hexane	0.000	0	N.D. d	
22) TRANS-1,2-DICHLOROETHENE	0.000	0	N.D.	
23) METHYL TERT-BUTYL ETHER	0.000	0	N.D. d	
24) 1,1-DICHLOROETHANE	0.000	0	N.D. d	
25) VINYL ACETATE	0.000	0	N.D. d	
26) DI-ISOPROPYL ETHER	0.000	0	N.D.	
27) 2,2-Dichloropropane	0.000	0	N.D. d	
28) CIS-1,2-DICHLOROETHENE	0.000	0	N.D.	
29) 2-BUTANONE (MEK)	0.000	0	N.D.	
30) BROMOCHLOROMETHANE	0.000	0	N.D.	
31) TETRAHYDROFURAN	0.000	0	N.D. d	
32) CHLOROFORM	0.000	0	N.D. d	
34) 1,1,1-TRICHLOROETHANE	0.000	0	N.D.	
35) CARBON TETRACHLORIDE	0.000	0	N.D.	

Quantitation Report (QT Reviewed)

Data Path : C:\MSDchem\1\data\112314a\
Data File : 1123 20A.D
Acq On : 24 Nov 2014 10:33 am
Operator : 644
Sample : STD VMS 7.5 ppb 14I02840
Misc : water IS/SURR14K01013
ALS Vial : 20 Sample Multiplier: 1
InstName : VOCMS20

Quant Time: Nov 24 14:26:56 2014
Quant Method : C:\MSDchem\1\methods\V820K23N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS20
QLast Update : Mon Nov 24 14:26:30 2014
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
36) 1,1-Dichloropropene	0.000		0	N.D.	
37) 2,2,4-TRIMETHYLPENTANE	0.000		0	N.D.	d
38) HEPTANE	0.000		0	N.D.	d
39) BENZENE	0.000		0	N.D.	d
40) 1,2-DICHLOROETHANE	0.000		0	N.D.	d
42) TRICHLOROETHENE	0.000		0	N.D.	d
43) 1,2-DICHLOROPROPANE	0.000		0	N.D.	d
44) DIBROMOMETHANE	0.000		0	N.D.	
45) BROMODICHLOROMETHANE	0.000		0	N.D.	d
47) 2-CHLOROETHYL VINYL ETHER	0.000		0	N.D.	
48) CIS-1,3-DICHLOROPROPENE	0.000		0	N.D.	
49) 4-METHYL-2-PENTANONE (...	0.000		0	N.D.	d
51) TOLUENE	0.000		0	N.D.	d
52) TRANS-1,3-DICHLOROPROPENE	0.000		0	N.D.	
54) 1,1,2-TRICHLOROETHANE	0.000		0	N.D.	d
55) TETRACHLOROETHENE	0.000		0	N.D.	d
56) 1,3-Dichloropropane	0.000		0	N.D.	d
57) 2-HEXANONE	0.000		0	N.D.	d
58) CHLORODIBROMOMETHANE	0.000		0	N.D.	
59) 1,2-DIBROMOETHANE	0.000		0	N.D.	
60) CHLOROBENZENE	0.000		0	N.D.	d
61) 1,1,1,2-TETRACHLOROETHANE	0.000		0	N.D.	d
62) ETHYLBENZENE	0.000		0	N.D.	d
63) M&P-XYLENE	0.000		0	N.D.	d
64) O-XYLENE	0.000		0	N.D.	d
65) STYRENE	0.000		0	N.D.	d
66) Bromoform	0.000		0	N.D.	
67) Isopropylbenzene	0.000		0	N.D.	d
69) Bromobenzene	0.000		0	N.D.	d
70) 1,1,2,2-TETRACHLOROETHANE	0.000		0	N.D.	d
71) 1,2,3-TRICHLOROPROPANE	0.000		0	N.D.	
72) TRANS-1,4-DICHLORO-2-B...	0.000		0	N.D.	d
73) n-Propylbenzene	0.000		0	N.D.	d
74) 4-ETHYLTOLUENE	0.000		0	N.D.	d
75) 2-Chlorotoluene	0.000		0	N.D.	
76) 4-Chlorotoluene	0.000		0	N.D.	d
77) 1,3,5-Trimethylbenzene	0.000		0	N.D.	d
78) tert-Butylbenzene	0.000		0	N.D.	d
79) 1,2,4-Trimethylbenzene	0.000		0	N.D.	d
80) sec-Butylbenzene	0.000		0	N.D.	d
81) 1,3-DICHLOROBENZENE	0.000		0	N.D.	d
82) p-Isopropyltoluene	0.000		0	N.D.	d
83) DICYCLOPENTADIENE	0.000		0	N.D.	d
85) 1,4-DICHLOROBENZENE	0.000		0	N.D.	d
86) 1,2,3-TRIMETHYLBENZENE	0.000		0	N.D.	d
87) 1,2-DICHLOROBENZENE	0.000		0	N.D.	d
88) n-Butylbenzene	0.000		0	N.D.	d
89) 1,2-Dibromo-3-chloropr...	0.000		0	N.D.	
90) 1,2,4-Trichlorobenzene	0.000		0	N.D.	d
91) HEXACHLORO-1,3-BUTADIENE	0.000		0	N.D.	
92) Naphthalene	0.000		0	N.D.	d
93) 1,2,3-Trichlorobenzene	0.000		0	N.D.	d
94) 1-Methylnaphthalene	0.000		0	N.D.	d
95) 2-Methylnaphthalene	0.000		0	N.D.	d

Quantitation Report (QT Reviewed)

Data Path : C:\MSDchem\1\data\112314a\
Data File : 1123 20A.D
Acq On : 24 Nov 2014 10:33 am
Operator : 644
Sample : STD VMS 7.5 ppb 14I02840
Misc : water IS/SURR14K01013
ALS Vial : 20 Sample Multiplier: 1
InstName : VOCMS20

Quant Time: Nov 24 14:26:56 2014
Quant Method : C:\MSDchem\1\methods\V820K23N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS20
QLast Update : Mon Nov 24 14:26:30 2014
Response via : Initial Calibration

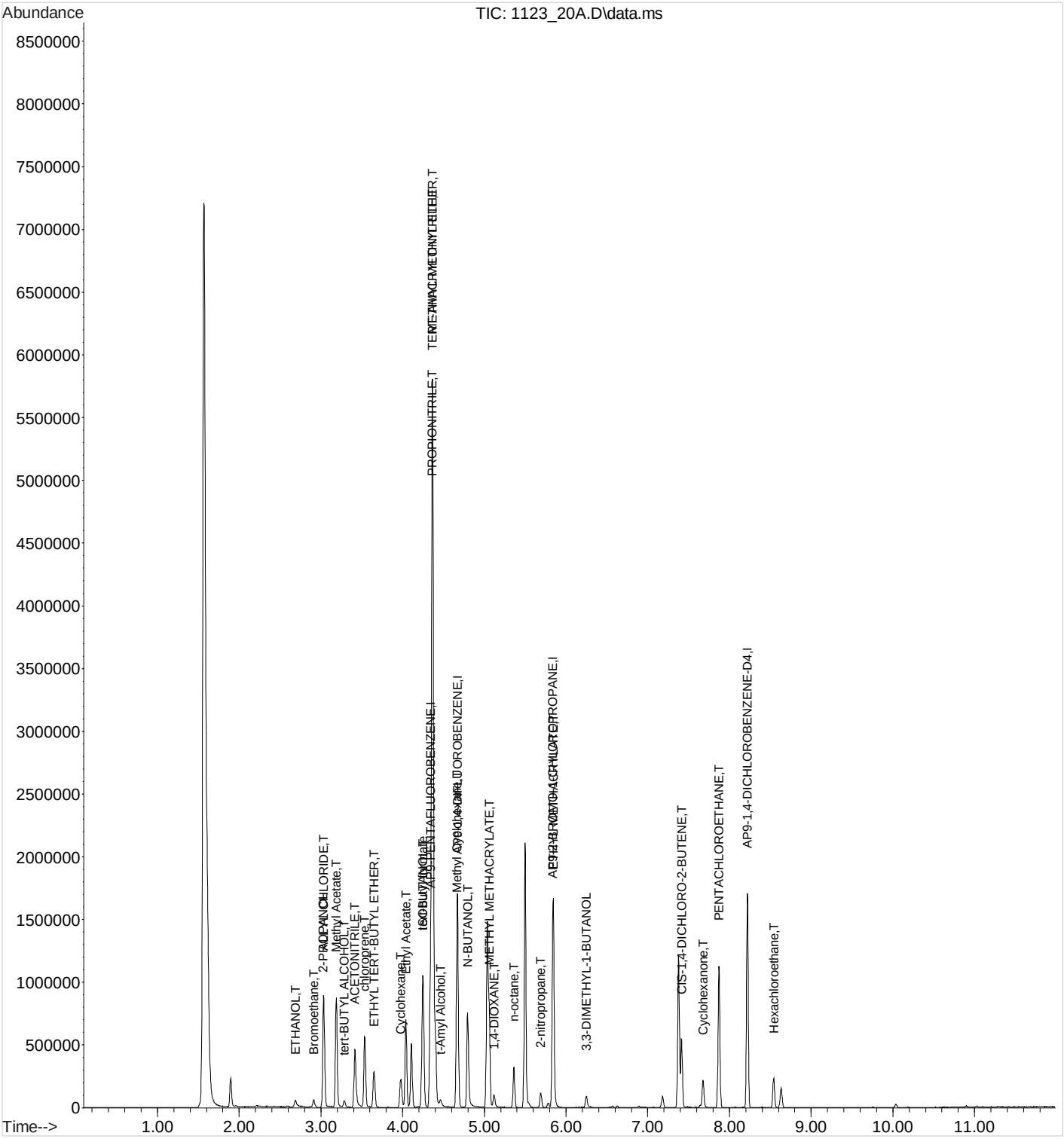
	Compound	R.T.	QIon	Response	Conc Units		Dev(Min)
97)	ETHANOL	2.686	45	67768	727.5243917 ppb	#	99
98)	Bromoethane	2.911	108	43473	7.4831097 ppb		94
99)	2-PROPANOL	3.026	45	21078	25.7756092 ppb		98
100)	Methyl Acetate	3.187	43	938275	145.4504439 ppb	#	100
101)	ACETONITRILE	3.415	41	468386	370.2982530 ppb		100
102)	ALLYL CHLORIDE	3.033	76	169568	36.6169194 ppb		100
103)	tert-BUTYL ALCOHOL	3.284	59	51198	33.5752103 ppb		97
104)	chloroprene	3.534	53	300868	38.2265550 ppb		100
105)	ETHYL TERT-BUTYL ETHER	3.650	59	206499	7.3958245 ppb		100
106)	PROPIONITRILE	4.358	54	465664	368.5966292 ppb		98
107)	Ethyl Acetate	4.039	43	651952	73.5079014 ppb		99
108)	METHACRYLONITRILE	4.364	67	1354334	364.1357552 ppb		100
109)	Cyclohexane	3.978	84	78441	7.8031843 ppb		99
110)	tert-butyl formate	4.248	59	426516	80.7319599 ppb		97
111)	ISOBUTANOL	4.248	41	351216	789.2726252 ppb	#	99
112)	t-Amyl Alcohol	4.467	59	22572	36.1026321 ppb		93
113)	TERT-AMYL METHYL ETHER	4.367	73	180084	7.2722664 ppb	#	97
115)	N-BUTANOL	4.795	56	374365	1527.4664763 ppb		99
116)	Methyl Cyclohexane	4.663	83	105269	5.7965897 ppb		99
117)	2-nitropropane	5.689	43	72324	36.3942648 ppb		99
118)	METHYL METHACRYLATE	5.062	41	297633	37.4339999 ppb		97
119)	1,4-DIOXANE	5.120	88	61579	789.9238693 ppb		93
120)	n-octane	5.361	85	50225	7.4209032 ppb		99
121)	3,3-DIMETHYL-1-BUTANOL	6.248	57	42948	70.0763804 ppb		97
123)	ETHYL METHACRYLATE	5.846	69	420292	38.5458512 ppb		89
124)	CIS-1,4-DICHLORO-2-BUTENE	7.415	53	112009	37.4041313 ppb		99
125)	Cyclohexanone	7.676	55	86399	55.2665596 ppb		99
126)	PENTACHLOROETHANE	7.872	117	212541	39.5269233 ppb		98
127)	Hexachloroethane	8.541	117	48712	7.3957684 ppb		97

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\MSDchem\1\data\112314a\
Data File : 1123 20A.D
Acq On : 24 Nov 2014 10:33 am
Operator : 644
Sample : STD VMS 7.5 ppb 14I02840
Misc : water IS/SURR14K01013
ALS Vial : 20 Sample Multiplier: 1
InstName : VOCMS20

Quant Time: Nov 24 14:26:56 2014
Quant Method : C:\MSDchem\1\methods\V820K23N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS20
QLast Update : Mon Nov 24 14:26:30 2014
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\MSDchem\1\data\112314a\
Data File : 1123 21A.D
Acq On : 24 Nov 2014 10:51 am
Operator : 644
Sample : MSTD VMS 10a ppb 14I02840
Misc : water IS/SURR14K01013
ALS Vial : 21 Sample Multiplier: 1
InstName : VOCMS20

Quant Time: Nov 24 14:21:18 2014
Quant Method : C:\MSDchem\1\methods\V820K23N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS20
QLast Update : Mon Nov 24 14:18:13 2014
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 8260-PENTAFLUOROBENZENE	0.000	168	0m	40.0000000	ppb	-4.34
41) 8260-1,4-DIFLUOROBENZENE	0.000	114	0m	40.0000000	ppb	-4.67
53) 8260-2-BROMO-1-CHLOROP...	0.000	79	0m	40.0000000	ppb	-5.84
84) 8260-1,4-DICHLOROBENZE...	0.000	152	0m	40.0000000	ppb	-8.22
96) AP9-PENTAFLUOROBENZENE	4.341	168	527833	40.0000000	ppb	0.00
114) AP9-1,4-DIFLUOROBENZENE	4.673	114	1006558	40.0000000	ppb	0.00
122) AP9-2-BROMO-1-CHLOROPR...	5.837	79	166280	40.0000000	ppb	0.00
128) AP9-1,4-DICHLOROBENZEN...	8.219	152	400196	40.0000000	ppb	0.00
System Monitoring Compounds						
33) DIBROMOFLUOROMETHANE	0.000	111	0d	0.0000000	ppb	
Spiked Amount 40.000	Range 78 - 121		Recovery = 0.00%#			
46) a,a,a-Trifluorotoluene	0.000	146	0d	0.0000000	ppb	
Spiked Amount 40.000	Range 85 - 114		Recovery = 0.00%#			
50) TOLUENE-D8	0.000	98	0d	0.0000000	ppb	
Spiked Amount 40.000	Range 89 - 111		Recovery = 0.00%#			
68) 4-BROMOFLUOROBENZENE	0.000	95	0d	0.0000000	ppb	
Spiked Amount 40.000	Range 71 - 126		Recovery = 0.00%#			

Target Compounds				Qvalue
2) TPH (GC/MS) LOW FRACTION	0.000	0	N.D. d	
3) PROPENE	0.000	0	N.D. d	
4) DICHLORODIFLUOROMETHANE	0.000	0	N.D.	
5) CHLOROMETHANE	0.000	0	N.D. d	
6) VINYL CHLORIDE	0.000	0	N.D.	
7) 1,3-BUTADIENE	0.000	0	N.D. d	
8) BROMOMETHANE	0.000	0	N.D.	
9) CHLOROETHANE	0.000	0	N.D.	
10) TRICHLOROFLUOROMETHANE	0.000	0	N.D.	
11) DICHLOROFLUOROMETHANE	0.000	0	N.D.	
12) ETHYL ETHER	0.000	0	N.D.	
13) ACROLEIN	0.000	0	N.D.	
14) 1,1-DICHLOROETHENE	0.000	0	N.D.	
15) 1,1,2-TRICHLOROTRIFLUO...	0.000	0	N.D.	
16) ACETONE	0.000	0	N.D. d	
17) IODOMETHANE	0.000	0	N.D. d	
18) CARBON DISULFIDE	0.000	0	N.D. d	
19) METHYLENE CHLORIDE	0.000	0	N.D. d	
20) ACRYLONITRILE	0.000	0	N.D. d	
21) n-Hexane	0.000	0	N.D. d	
22) TRANS-1,2-DICHLOROETHENE	0.000	0	N.D.	
23) METHYL TERT-BUTYL ETHER	0.000	0	N.D. d	
24) 1,1-DICHLOROETHANE	0.000	0	N.D. d	
25) VINYL ACETATE	0.000	0	N.D. d	
26) DI-ISOPROPYL ETHER	0.000	0	N.D. d	
27) 2,2-Dichloropropane	0.000	0	N.D. d	
28) CIS-1,2-DICHLOROETHENE	0.000	0	N.D.	
29) 2-BUTANONE (MEK)	0.000	0	N.D.	
30) BROMOCHLOROMETHANE	0.000	0	N.D.	
31) TETRAHYDROFURAN	0.000	0	N.D. d	
32) CHLOROFORM	0.000	0	N.D. d	
34) 1,1,1-TRICHLOROETHANE	0.000	0	N.D.	
35) CARBON TETRACHLORIDE	0.000	0	N.D.	

Quantitation Report (QT Reviewed)

Data Path : C:\MSDchem\1\data\112314a\
Data File : 1123 21A.D
Acq On : 24 Nov 2014 10:51 am
Operator : 644
Sample : MSTD VMS 10a ppb 14I02840
Misc : water IS/SURR14K01013
ALS Vial : 21 Sample Multiplier: 1
InstName : VOCMS20

Quant Time: Nov 24 14:21:18 2014
Quant Method : C:\MSDchem\1\methods\V820K23N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS20
QLast Update : Mon Nov 24 14:18:13 2014
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
36) 1,1-Dichloropropene	0.000		0	N.D.	
37) 2,2,4-TRIMETHYLPENTANE	0.000		0	N.D.	d
38) HEPTANE	0.000		0	N.D.	d
39) BENZENE	0.000		0	N.D.	d
40) 1,2-DICHLOROETHANE	0.000		0	N.D.	d
42) TRICHLOROETHENE	0.000		0	N.D.	d
43) 1,2-DICHLOROPROPANE	0.000		0	N.D.	d
44) DIBROMOMETHANE	0.000		0	N.D.	
45) BROMODICHLOROMETHANE	0.000		0	N.D.	d
47) 2-CHLOROETHYL VINYL ETHER	0.000		0	N.D.	
48) CIS-1,3-DICHLOROPROPENE	0.000		0	N.D.	
49) 4-METHYL-2-PENTANONE (...	0.000		0	N.D.	d
51) TOLUENE	0.000		0	N.D.	d
52) TRANS-1,3-DICHLOROPROPENE	0.000		0	N.D.	
54) 1,1,2-TRICHLOROETHANE	0.000		0	N.D.	d
55) TETRACHLOROETHENE	0.000		0	N.D.	d
56) 1,3-Dichloropropane	0.000		0	N.D.	d
57) 2-HEXANONE	0.000		0	N.D.	d
58) CHLORODIBROMOMETHANE	0.000		0	N.D.	
59) 1,2-DIBROMOETHANE	0.000		0	N.D.	
60) CHLOROBENZENE	0.000		0	N.D.	d
61) 1,1,1,2-TETRACHLOROETHANE	0.000		0	N.D.	d
62) ETHYLBENZENE	0.000		0	N.D.	d
63) M&P-XYLENE	0.000		0	N.D.	d
64) O-XYLENE	0.000		0	N.D.	d
65) STYRENE	0.000		0	N.D.	d
66) Bromoform	0.000		0	N.D.	
67) Isopropylbenzene	0.000		0	N.D.	d
69) Bromobenzene	0.000		0	N.D.	d
70) 1,1,2,2-TETRACHLOROETHANE	0.000		0	N.D.	d
71) 1,2,3-TRICHLOROPROPANE	0.000		0	N.D.	
72) TRANS-1,4-DICHLORO-2-B...	0.000		0	N.D.	d
73) n-Propylbenzene	0.000		0	N.D.	d
74) 4-ETHYLTOLUENE	0.000		0	N.D.	d
75) 2-Chlorotoluene	0.000		0	N.D.	
76) 4-Chlorotoluene	0.000		0	N.D.	d
77) 1,3,5-Trimethylbenzene	0.000		0	N.D.	d
78) tert-Butylbenzene	0.000		0	N.D.	d
79) 1,2,4-Trimethylbenzene	0.000		0	N.D.	d
80) sec-Butylbenzene	0.000		0	N.D.	d
81) 1,3-DICHLOROBENZENE	0.000		0	N.D.	d
82) p-Isopropyltoluene	0.000		0	N.D.	d
83) DICYCLOPENTADIENE	0.000		0	N.D.	d
85) 1,4-DICHLOROBENZENE	0.000		0	N.D.	d
86) 1,2,3-TRIMETHYLBENZENE	0.000		0	N.D.	d
87) 1,2-DICHLOROBENZENE	0.000		0	N.D.	d
88) n-Butylbenzene	0.000		0	N.D.	d
89) 1,2-Dibromo-3-chloropr...	0.000		0	N.D.	
90) 1,2,4-Trichlorobenzene	0.000		0	N.D.	d
91) HEXACHLORO-1,3-BUTADIENE	0.000		0	N.D.	
92) Naphthalene	0.000		0	N.D.	d
93) 1,2,3-Trichlorobenzene	0.000		0	N.D.	d
94) 1-Methylnaphthalene	0.000		0	N.D.	d
95) 2-Methylnaphthalene	0.000		0	N.D.	d

Quantitation Report (QT Reviewed)

Data Path : C:\MSDchem\1\data\112314a\
Data File : 1123 21A.D
Acq On : 24 Nov 2014 10:51 am
Operator : 644
Sample : MSTD VMS 10a ppb 14I02840
Misc : water IS/SURR14K01013
ALS Vial : 21 Sample Multiplier: 1
InstName : VOCMS20

Quant Time: Nov 24 14:21:18 2014
Quant Method : C:\MSDchem\1\methods\V820K23N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS20
QLast Update : Mon Nov 24 14:18:13 2014
Response via : Initial Calibration

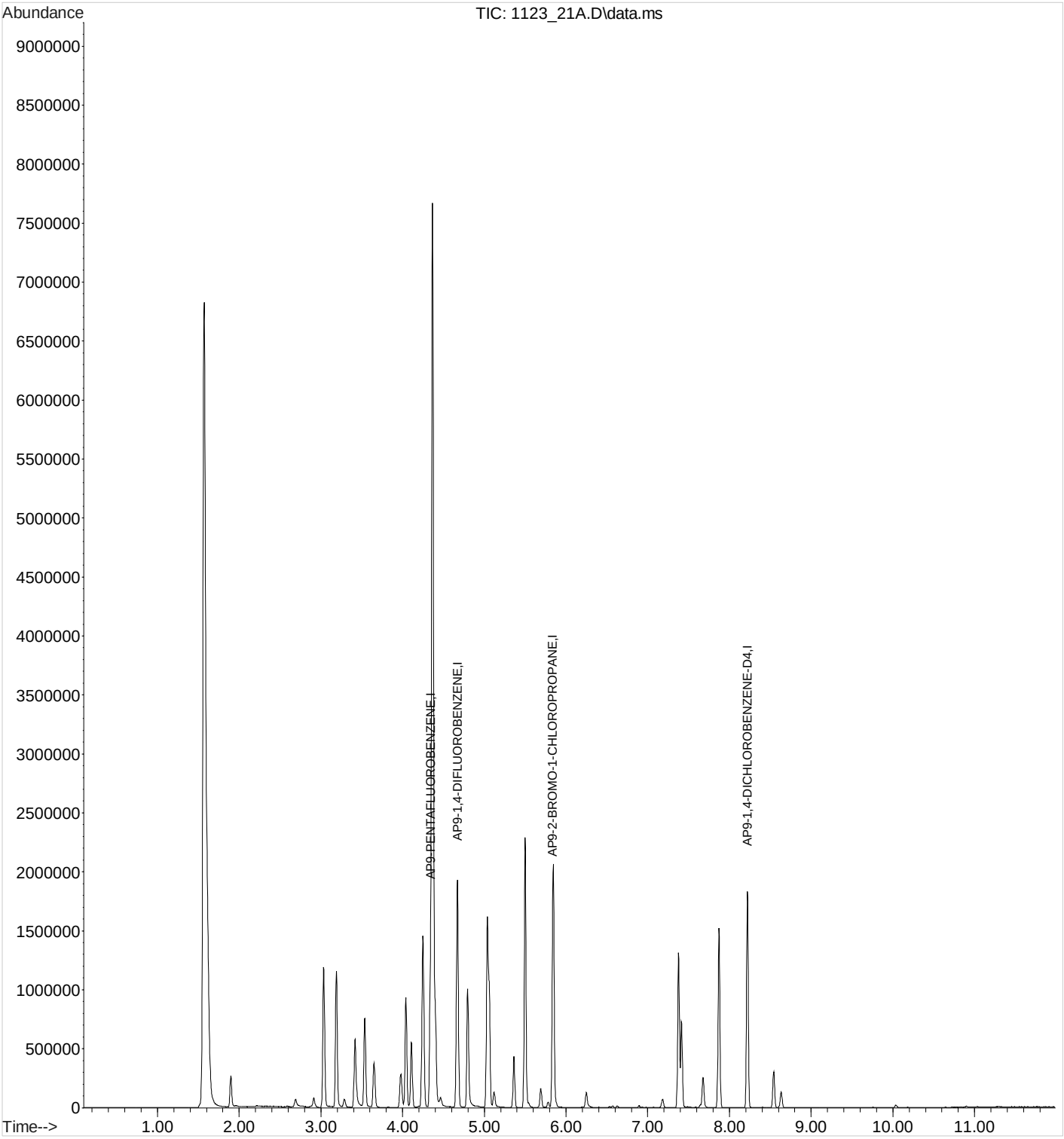
	Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
97)	ETHANOL	2.689	45	81979	No Calib	#
98)	Bromoethane	2.911	108	56223	No Calib	
99)	2-PROPANOL	3.026	45	26533	No Calib	
100)	Methyl Acetate	3.187	43	1245040	No Calib	#
101)	ACETONITRILE	3.419	41	614893	No Calib	
102)	ALLYL CHLORIDE	3.033	76	226276	No Calib	#
103)	tert-BUTYL ALCOHOL	3.287	59	64936	No Calib	
104)	chloroprene	3.538	53	399303	No Calib	
105)	ETHYL TERT-BUTYL ETHER	3.650	59	273758	No Calib	
106)	PROPIONITRILE	4.357	54	603368	No Calib	
107)	Ethyl Acetate	4.039	43	874720	No Calib	#
108)	METHACRYLONITRILE	4.367	67	1804645	No Calib	
109)	Cyclohexane	3.978	84	103732	No Calib	#
110)	tert-butyl formate	4.248	59	601976	No Calib	
111)	ISOBUTANOL	4.248	41	472412	No Calib	#
112)	t-Amyl Alcohol	4.464	59	28975	No Calib	
113)	TERT-AMYL METHYL ETHER	4.370	73	243807	No Calib	#
115)	N-BUTANOL	4.795	56	499124	No Calib	
116)	Methyl Cyclohexane	4.666	83	138381	No Calib	
117)	2-nitropropane	5.692	43	98788	No Calib	
118)	METHYL METHACRYLATE	5.062	41	400436	No Calib	
119)	1,4-DIOXANE	5.120	88	79863	No Calib	#
120)	n-octane	5.364	85	69835	No Calib	
121)	3,3-DIMETHYL-1-BUTANOL	6.248	57	59072	No Calib	#
123)	ETHYL METHACRYLATE	5.846	69	568519	No Calib	
124)	CIS-1,4-DICHLORO-2-BUTENE	7.412	53	149551	No Calib	
125)	Cyclohexanone	7.676	55	102371	No Calib	
126)	PENTACHLOROETHANE	7.872	117	284885	No Calib	
127)	Hexachloroethane	8.541	117	63419	No Calib	

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\MSDchem\1\data\112314a\
Data File : 1123 21A.D
Acq On : 24 Nov 2014 10:51 am
Operator : 644
Sample : MSTD VMS 10a ppb 14I02840
Misc : water IS/SURR14K01013
ALS Vial : 21 Sample Multiplier: 1
InstName : VOCMS20

Quant Time: Nov 24 14:21:18 2014
Quant Method : C:\MSDchem\1\methods\V820K23N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS20
QLast Update : Mon Nov 24 14:18:13 2014
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\MSDchem\1\data\112314a\
Data File : 1123 22A.D
Acq On : 24 Nov 2014 11:09 am
Operator : 644
Sample : STD VMS 12.5 ppb 14I02840
Misc : water IS/SURR14K01013
ALS Vial : 22 Sample Multiplier: 1
InstName : VOCMS20

Quant Time: Nov 24 14:27:54 2014
Quant Method : C:\MSDchem\1\methods\V820K23N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS20
QLast Update : Mon Nov 24 14:27:31 2014
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 8260-PENTAFLUOROBENZENE	0.000	168	0m	40.0000000	ppb	-4.34
41) 8260-1,4-DIFLUOROBENZENE	0.000	114	0m	40.0000000	ppb	-4.67
53) 8260-2-BROMO-1-CHLOROP...	0.000	79	0m	40.0000000	ppb	-5.84
84) 8260-1,4-DICHLOROBENZE...	0.000	152	0m	40.0000000	ppb	-8.22
96) AP9-PENTAFLUOROBENZENE	4.342	168	488374	40.0000000	ppb	0.00
114) AP9-1,4-DIFLUOROBENZENE	4.670	114	920703	40.0000000	ppb	0.00
122) AP9-2-BROMO-1-CHLOROPR...	5.837	79	148279	40.0000000	ppb	# 0.00
128) AP9-1,4-DICHLOROBENZEN...	8.219	152	372910	40.0000000	ppb	0.00
System Monitoring Compounds						
33) DIBROMOFLUOROMETHANE	0.000	111	0d	0.0000000	ppb	
Spiked Amount 40.000	Range 78 - 121		Recovery = 0.00%#			
46) a,a,a-Trifluorotoluene	0.000	146	0d	0.0000000	ppb	
Spiked Amount 40.000	Range 85 - 114		Recovery = 0.00%#			
50) TOLUENE-D8	0.000	98	0d	0.0000000	ppb	
Spiked Amount 40.000	Range 89 - 111		Recovery = 0.00%#			
68) 4-BROMOFLUOROBENZENE	0.000	95	0d	0.0000000	ppb	
Spiked Amount 40.000	Range 71 - 126		Recovery = 0.00%#			

Target Compounds				Qvalue
2) TPH (GC/MS) LOW FRACTION	0.000	0	N.D. d	
3) PROPENE	0.000	0	N.D. d	
4) DICHLORODIFLUOROMETHANE	0.000	0	N.D.	
5) CHLOROMETHANE	0.000	0	N.D. d	
6) VINYL CHLORIDE	0.000	0	N.D.	
7) 1,3-BUTADIENE	0.000	0	N.D. d	
8) BROMOMETHANE	0.000	0	N.D.	
9) CHLOROETHANE	0.000	0	N.D.	
10) TRICHLOROFLUOROMETHANE	0.000	0	N.D.	
11) DICHLOROFLUOROMETHANE	0.000	0	N.D.	
12) ETHYL ETHER	0.000	0	N.D.	
13) ACROLEIN	0.000	0	N.D.	
14) 1,1-DICHLOROETHENE	0.000	0	N.D.	
15) 1,1,2-TRICHLOROTRIFLUO...	0.000	0	N.D.	
16) ACETONE	0.000	0	N.D. d	
17) IODOMETHANE	0.000	0	N.D. d	
18) CARBON DISULFIDE	0.000	0	N.D. d	
19) METHYLENE CHLORIDE	0.000	0	N.D. d	
20) ACRYLONITRILE	0.000	0	N.D. d	
21) n-Hexane	0.000	0	N.D. d	
22) TRANS-1,2-DICHLOROETHENE	0.000	0	N.D.	
23) METHYL TERT-BUTYL ETHER	0.000	0	N.D. d	
24) 1,1-DICHLOROETHANE	0.000	0	N.D. d	
25) VINYL ACETATE	0.000	0	N.D. d	
26) DI-ISOPROPYL ETHER	0.000	0	N.D.	
27) 2,2-Dichloropropane	0.000	0	N.D. d	
28) CIS-1,2-DICHLOROETHENE	0.000	0	N.D.	
29) 2-BUTANONE (MEK)	0.000	0	N.D.	
30) BROMOCHLOROMETHANE	0.000	0	N.D.	
31) TETRAHYDROFURAN	0.000	0	N.D. d	
32) CHLOROFORM	0.000	0	N.D. d	
34) 1,1,1-TRICHLOROETHANE	0.000	0	N.D.	
35) CARBON TETRACHLORIDE	0.000	0	N.D.	

Quantitation Report (QT Reviewed)

Data Path : C:\MSDchem\1\data\112314a\
Data File : 1123 22A.D
Acq On : 24 Nov 2014 11:09 am
Operator : 644
Sample : STD VMS 12.5 ppb 14I02840
Misc : water IS/SURR14K01013
ALS Vial : 22 Sample Multiplier: 1
InstName : VOCMS20

Quant Time: Nov 24 14:27:54 2014
Quant Method : C:\MSDchem\1\methods\V820K23N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS20
QLast Update : Mon Nov 24 14:27:31 2014
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
36) 1,1-Dichloropropene	0.000		0	N.D.	
37) 2,2,4-TRIMETHYLPENTANE	0.000		0	N.D.	d
38) HEPTANE	0.000		0	N.D.	d
39) BENZENE	0.000		0	N.D.	d
40) 1,2-DICHLOROETHANE	0.000		0	N.D.	d
42) TRICHLOROETHENE	0.000		0	N.D.	d
43) 1,2-DICHLOROPROPANE	0.000		0	N.D.	d
44) DIBROMOMETHANE	0.000		0	N.D.	d
45) BROMODICHLOROMETHANE	0.000		0	N.D.	d
47) 2-CHLOROETHYL VINYL ETHER	0.000		0	N.D.	
48) CIS-1,3-DICHLOROPROPENE	0.000		0	N.D.	
49) 4-METHYL-2-PENTANONE (...	0.000		0	N.D.	d
51) TOLUENE	0.000		0	N.D.	d
52) TRANS-1,3-DICHLOROPROPENE	0.000		0	N.D.	
54) 1,1,2-TRICHLOROETHANE	0.000		0	N.D.	d
55) TETRACHLOROETHENE	0.000		0	N.D.	d
56) 1,3-Dichloropropane	0.000		0	N.D.	d
57) 2-HEXANONE	0.000		0	N.D.	d
58) CHLORODIBROMOMETHANE	0.000		0	N.D.	
59) 1,2-DIBROMOETHANE	0.000		0	N.D.	
60) CHLOROBENZENE	0.000		0	N.D.	d
61) 1,1,1,2-TETRACHLOROETHANE	0.000		0	N.D.	d
62) ETHYLBENZENE	0.000		0	N.D.	d
63) M&P-XYLENE	0.000		0	N.D.	d
64) O-XYLENE	0.000		0	N.D.	d
65) STYRENE	0.000		0	N.D.	d
66) Bromoform	0.000		0	N.D.	
67) Isopropylbenzene	0.000		0	N.D.	d
69) Bromobenzene	0.000		0	N.D.	d
70) 1,1,2,2-TETRACHLOROETHANE	0.000		0	N.D.	d
71) 1,2,3-TRICHLOROPROPANE	0.000		0	N.D.	
72) TRANS-1,4-DICHLORO-2-B...	0.000		0	N.D.	d
73) n-Propylbenzene	0.000		0	N.D.	d
74) 4-ETHYLTOLUENE	0.000		0	N.D.	d
75) 2-Chlorotoluene	0.000		0	N.D.	
76) 4-Chlorotoluene	0.000		0	N.D.	d
77) 1,3,5-Trimethylbenzene	0.000		0	N.D.	d
78) tert-Butylbenzene	0.000		0	N.D.	d
79) 1,2,4-Trimethylbenzene	0.000		0	N.D.	d
80) sec-Butylbenzene	0.000		0	N.D.	d
81) 1,3-DICHLOROBENZENE	0.000		0	N.D.	d
82) p-Isopropyltoluene	0.000		0	N.D.	d
83) DICYCLOPENTADIENE	0.000		0	N.D.	d
85) 1,4-DICHLOROBENZENE	0.000		0	N.D.	d
86) 1,2,3-TRIMETHYLBENZENE	0.000		0	N.D.	d
87) 1,2-DICHLOROBENZENE	0.000		0	N.D.	d
88) n-Butylbenzene	0.000		0	N.D.	d
89) 1,2-Dibromo-3-chloropr...	0.000		0	N.D.	
90) 1,2,4-Trichlorobenzene	0.000		0	N.D.	d
91) HEXACHLORO-1,3-BUTADIENE	0.000		0	N.D.	
92) Naphthalene	0.000		0	N.D.	d
93) 1,2,3-Trichlorobenzene	0.000		0	N.D.	d
94) 1-Methylnaphthalene	0.000		0	N.D.	d
95) 2-Methylnaphthalene	0.000		0	N.D.	d

Quantitation Report (QT Reviewed)

Data Path : C:\MSDchem\1\data\112314a\
Data File : 1123 22A.D
Acq On : 24 Nov 2014 11:09 am
Operator : 644
Sample : STD VMS 12.5 ppb 14I02840
Misc : water IS/SURR14K01013
ALS Vial : 22 Sample Multiplier: 1
InstName : VOCMS20

Quant Time: Nov 24 14:27:54 2014
Quant Method : C:\MSDchem\1\methods\V820K23N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS20
QLast Update : Mon Nov 24 14:27:31 2014
Response via : Initial Calibration

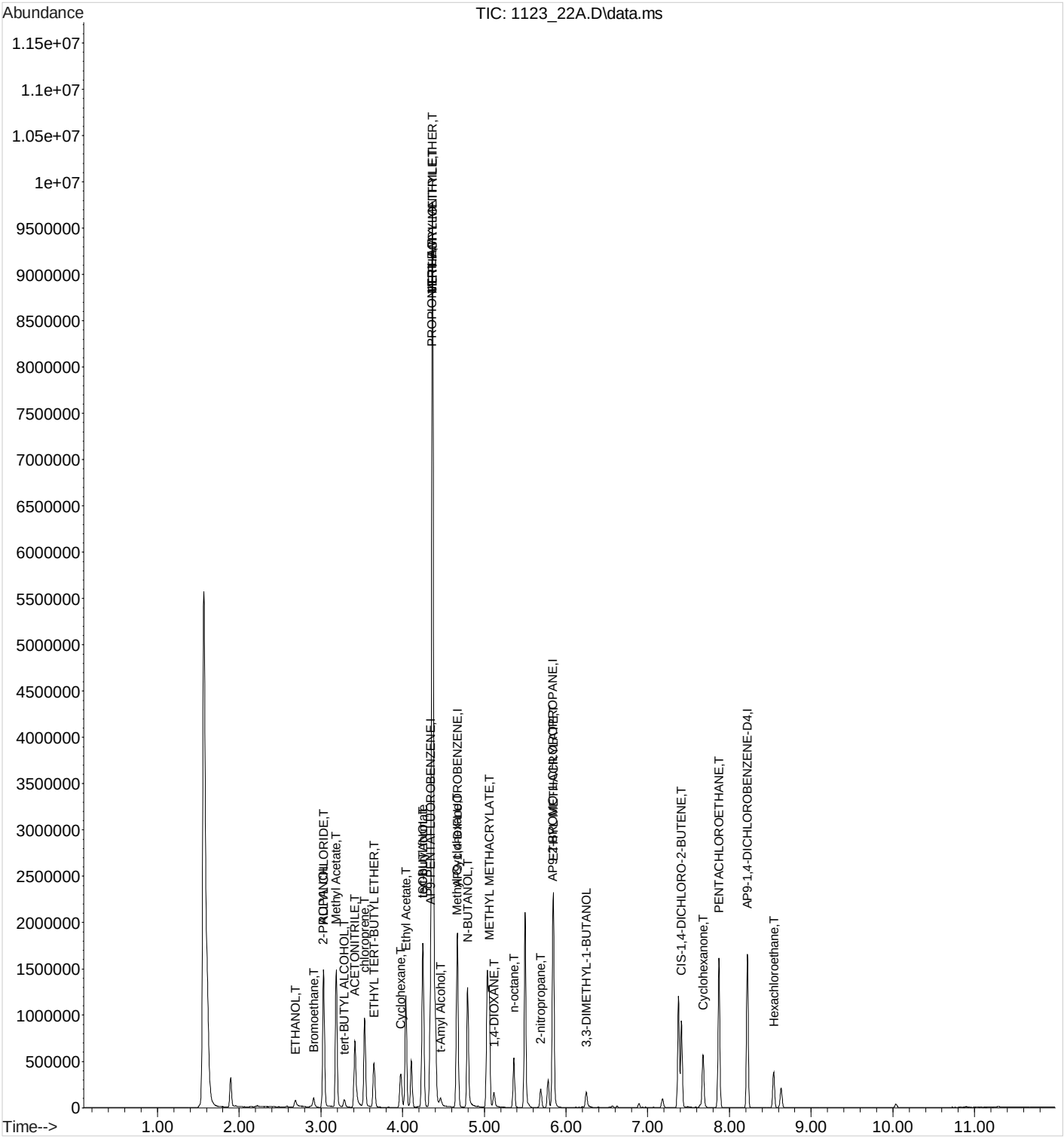
	Compound	R.T.	QIon	Response	Conc Units		Dev(Min)
97)	ETHANOL	2.686	45	103656	1109.3943243 ppb	#	93
98)	Bromoethane	2.911	108	72374	12.3508988 ppb		96
99)	2-PROPANOL	3.026	45	33691	43.5505788 ppb	#	90
100)	Methyl Acetate	3.187	43	1583982	244.8135572 ppb	#	100
101)	ACETONITRILE	3.416	41	786051	617.3716980 ppb		99
102)	ALLYL CHLORIDE	3.033	76	283052	60.8572356 ppb		99
103)	tert-BUTYL ALCOHOL	3.287	59	80175	53.2169257 ppb		96
104)	chloroprene	3.534	53	506877	63.5725974 ppb		98
105)	ETHYL TERT-BUTYL ETHER	3.650	59	347642	12.3727680 ppb		100
106)	PROPIONITRILE	4.358	54	779173	613.2762288 ppb		97
107)	Ethyl Acetate	4.039	43	1114634	125.0374169 ppb		99
108)	METHACRYLONITRILE	4.367	67	2299060	616.1258288 ppb		100
109)	Cyclohexane	3.978	84	129652	12.6785235 ppb		99
110)	tert-butyl formate	4.248	59	738160	136.3736421 ppb		100
111)	ISOBUTANOL	4.248	41	582620	1284.0187998 ppb	#	99
112)	t-Amyl Alcohol	4.464	59	37370	59.6758356 ppb		95
113)	TERT-AMYL METHYL ETHER	4.367	73	303856	12.2339236 ppb	#	99
115)	N-BUTANOL	4.795	56	641694	2580.0736414 ppb		100
116)	Methyl Cyclohexane	4.663	83	169429	9.6663978 ppb		97
117)	2-nitropropane	5.689	43	123917	62.0390833 ppb		97
118)	METHYL METHACRYLATE	5.059	41	505780	62.9382909 ppb		97
119)	1,4-DIOXANE	5.120	88	100896	1266.6090231 ppb		97
120)	n-octane	5.361	85	85881	12.5766842 ppb		98
121)	3,3-DIMETHYL-1-BUTANOL	6.248	57	77735	127.1160712 ppb		98
123)	ETHYL METHACRYLATE	5.846	69	727183	68.2461538 ppb		87
124)	CIS-1,4-DICHLORO-2-BUTENE	7.412	53	190573	65.5199850 ppb		96
125)	Cyclohexanone	7.676	55	229469	159.4330408 ppb		100
126)	PENTACHLOROETHANE	7.872	117	300279	56.8498426 ppb		99
127)	Hexachloroethane	8.541	117	82386	12.9072351 ppb		97

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\MSDchem\1\data\112314a\
Data File : 1123 22A.D
Acq On : 24 Nov 2014 11:09 am
Operator : 644
Sample : STD VMS 12.5 ppb 14I02840
Misc : water IS/SURR14K01013
ALS Vial : 22 Sample Multiplier: 1
InstName : VOCMS20

Quant Time: Nov 24 14:27:54 2014
Quant Method : C:\MSDchem\1\methods\V820K23N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS20
QLast Update : Mon Nov 24 14:27:31 2014
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\MSDchem\1\data\112314a\
Data File : 1123 23A.D
Acq On : 24 Nov 2014 11:51 am
Operator : 644
Sample : STD VMS 15 ppb 14I02840
Misc : water IS/SURR14K01013
ALS Vial : 23 Sample Multiplier: 1
InstName : VOCMS20

Quant Time: Nov 24 14:28:51 2014
Quant Method : C:\MSDchem\1\methods\V820K23N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS20
QLast Update : Mon Nov 24 14:28:19 2014
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 8260-PENTAFLUOROBENZENE	0.000	168	0m	40.0000000	ppb	-4.34
41) 8260-1,4-DIFLUOROBENZENE	0.000	114	0m	40.0000000	ppb	-4.67
53) 8260-2-BROMO-1-CHLOROP...	0.000	79	0m	40.0000000	ppb	-5.84
84) 8260-1,4-DICHLOROBENZE...	0.000	152	0m	40.0000000	ppb	-8.22
96) AP9-PENTAFLUOROBENZENE	4.338	168	483516	40.0000000	ppb	0.00
114) AP9-1,4-DIFLUOROBENZENE	4.670	114	899907	40.0000000	ppb	0.00
122) AP9-2-BROMO-1-CHLOROPR...	5.837	79	151066	40.0000000	ppb	# 0.00
128) AP9-1,4-DICHLOROBENZEN...	8.219	152	369999	40.0000000	ppb	0.00
System Monitoring Compounds						
33) DIBROMOFLUOROMETHANE	0.000	111	0d	0.0000000	ppb	
Spiked Amount 40.000	Range 78 - 121		Recovery = 0.00%#			
46) a,a,a-Trifluorotoluene	0.000	146	0d	0.0000000	ppb	
Spiked Amount 40.000	Range 85 - 114		Recovery = 0.00%#			
50) TOLUENE-D8	0.000	98	0d	0.0000000	ppb	
Spiked Amount 40.000	Range 89 - 111		Recovery = 0.00%#			
68) 4-BROMOFLUOROBENZENE	0.000	95	0d	0.0000000	ppb	
Spiked Amount 40.000	Range 71 - 126		Recovery = 0.00%#			

Target Compounds				Qvalue
2) TPH (GC/MS) LOW FRACTION	0.000	0	N.D. d	
3) PROPENE	0.000	0	N.D. d	
4) DICHLORODIFLUOROMETHANE	0.000	0	N.D.	
5) CHLOROMETHANE	0.000	0	N.D. d	
6) VINYL CHLORIDE	0.000	0	N.D.	
7) 1,3-BUTADIENE	0.000	0	N.D. d	
8) BROMOMETHANE	0.000	0	N.D.	
9) CHLOROETHANE	0.000	0	N.D.	
10) TRICHLOROFLUOROMETHANE	0.000	0	N.D.	
11) DICHLOROFLUOROMETHANE	0.000	0	N.D.	
12) ETHYL ETHER	0.000	0	N.D.	
13) ACROLEIN	0.000	0	N.D.	
14) 1,1-DICHLOROETHENE	0.000	0	N.D.	
15) 1,1,2-TRICHLOROTRIFLUO...	0.000	0	N.D.	
16) ACETONE	0.000	0	N.D. d	
17) IODOMETHANE	0.000	0	N.D. d	
18) CARBON DISULFIDE	0.000	0	N.D. d	
19) METHYLENE CHLORIDE	0.000	0	N.D. d	
20) ACRYLONITRILE	0.000	0	N.D. d	
21) n-Hexane	0.000	0	N.D. d	
22) TRANS-1,2-DICHLOROETHENE	0.000	0	N.D.	
23) METHYL TERT-BUTYL ETHER	0.000	0	N.D. d	
24) 1,1-DICHLOROETHANE	0.000	0	N.D. d	
25) VINYL ACETATE	0.000	0	N.D. d	
26) DI-ISOPROPYL ETHER	0.000	0	N.D. d	
27) 2,2-Dichloropropane	0.000	0	N.D. d	
28) CIS-1,2-DICHLOROETHENE	0.000	0	N.D.	
29) 2-BUTANONE (MEK)	0.000	0	N.D.	
30) BROMOCHLOROMETHANE	0.000	0	N.D.	
31) TETRAHYDROFURAN	0.000	0	N.D. d	
32) CHLOROFORM	0.000	0	N.D. d	
34) 1,1,1-TRICHLOROETHANE	0.000	0	N.D.	
35) CARBON TETRACHLORIDE	0.000	0	N.D.	

Quantitation Report (QT Reviewed)

Data Path : C:\MSDchem\1\data\112314a\
Data File : 1123 23A.D
Acq On : 24 Nov 2014 11:51 am
Operator : 644
Sample : STD VMS 15 ppb 14I02840
Misc : water IS/SURR14K01013
ALS Vial : 23 Sample Multiplier: 1
InstName : VOCMS20

Quant Time: Nov 24 14:28:51 2014
Quant Method : C:\MSDchem\1\methods\V820K23N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS20
QLast Update : Mon Nov 24 14:28:19 2014
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
36) 1,1-Dichloropropene	0.000		0	N.D.	
37) 2,2,4-TRIMETHYLPENTANE	0.000		0	N.D.	d
38) HEPTANE	0.000		0	N.D.	d
39) BENZENE	0.000		0	N.D.	d
40) 1,2-DICHLOROETHANE	0.000		0	N.D.	d
42) TRICHLOROETHENE	0.000		0	N.D.	d
43) 1,2-DICHLOROPROPANE	0.000		0	N.D.	d
44) DIBROMOMETHANE	0.000		0	N.D.	d
45) BROMODICHLOROMETHANE	0.000		0	N.D.	d
47) 2-CHLOROETHYL VINYL ETHER	0.000		0	N.D.	
48) CIS-1,3-DICHLOROPROPENE	0.000		0	N.D.	
49) 4-METHYL-2-PENTANONE (...	0.000		0	N.D.	d
51) TOLUENE	0.000		0	N.D.	d
52) TRANS-1,3-DICHLOROPROPENE	0.000		0	N.D.	
54) 1,1,2-TRICHLOROETHANE	0.000		0	N.D.	d
55) TETRACHLOROETHENE	0.000		0	N.D.	d
56) 1,3-Dichloropropane	0.000		0	N.D.	d
57) 2-HEXANONE	0.000		0	N.D.	d
58) CHLORODIBROMOMETHANE	0.000		0	N.D.	
59) 1,2-DIBROMOETHANE	0.000		0	N.D.	
60) CHLOROBENZENE	0.000		0	N.D.	d
61) 1,1,1,2-TETRACHLOROETHANE	0.000		0	N.D.	d
62) ETHYLBENZENE	0.000		0	N.D.	d
63) M&P-XYLENE	0.000		0	N.D.	d
64) O-XYLENE	0.000		0	N.D.	d
65) STYRENE	0.000		0	N.D.	d
66) Bromoform	0.000		0	N.D.	
67) Isopropylbenzene	0.000		0	N.D.	d
69) Bromobenzene	0.000		0	N.D.	d
70) 1,1,2,2-TETRACHLOROETHANE	0.000		0	N.D.	d
71) 1,2,3-TRICHLOROPROPANE	0.000		0	N.D.	
72) TRANS-1,4-DICHLORO-2-B...	0.000		0	N.D.	d
73) n-Propylbenzene	0.000		0	N.D.	d
74) 4-ETHYLTOLUENE	0.000		0	N.D.	d
75) 2-Chlorotoluene	0.000		0	N.D.	
76) 4-Chlorotoluene	0.000		0	N.D.	d
77) 1,3,5-Trimethylbenzene	0.000		0	N.D.	d
78) tert-Butylbenzene	0.000		0	N.D.	d
79) 1,2,4-Trimethylbenzene	0.000		0	N.D.	d
80) sec-Butylbenzene	0.000		0	N.D.	d
81) 1,3-DICHLOROBENZENE	0.000		0	N.D.	d
82) p-Isopropyltoluene	0.000		0	N.D.	d
83) DICYCLOPENTADIENE	0.000		0	N.D.	d
85) 1,4-DICHLOROBENZENE	0.000		0	N.D.	d
86) 1,2,3-TRIMETHYLBENZENE	0.000		0	N.D.	d
87) 1,2-DICHLOROBENZENE	0.000		0	N.D.	d
88) n-Butylbenzene	0.000		0	N.D.	d
89) 1,2-Dibromo-3-chloropr...	0.000		0	N.D.	
90) 1,2,4-Trichlorobenzene	0.000		0	N.D.	d
91) HEXACHLORO-1,3-BUTADIENE	0.000		0	N.D.	
92) Naphthalene	0.000		0	N.D.	d
93) 1,2,3-Trichlorobenzene	0.000		0	N.D.	d
94) 1-Methylnaphthalene	0.000		0	N.D.	d
95) 2-Methylnaphthalene	0.000		0	N.D.	d

Quantitation Report (QT Reviewed)

Data Path : C:\MSDchem\1\data\112314a\
Data File : 1123 23A.D
Acq On : 24 Nov 2014 11:51 am
Operator : 644
Sample : STD VMS 15 ppb 14I02840
Misc : water IS/SURR14K01013
ALS Vial : 23 Sample Multiplier: 1
InstName : VOCMS20

Quant Time: Nov 24 14:28:51 2014
Quant Method : C:\MSDchem\1\methods\V820K23N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS20
QLast Update : Mon Nov 24 14:28:19 2014
Response via : Initial Calibration

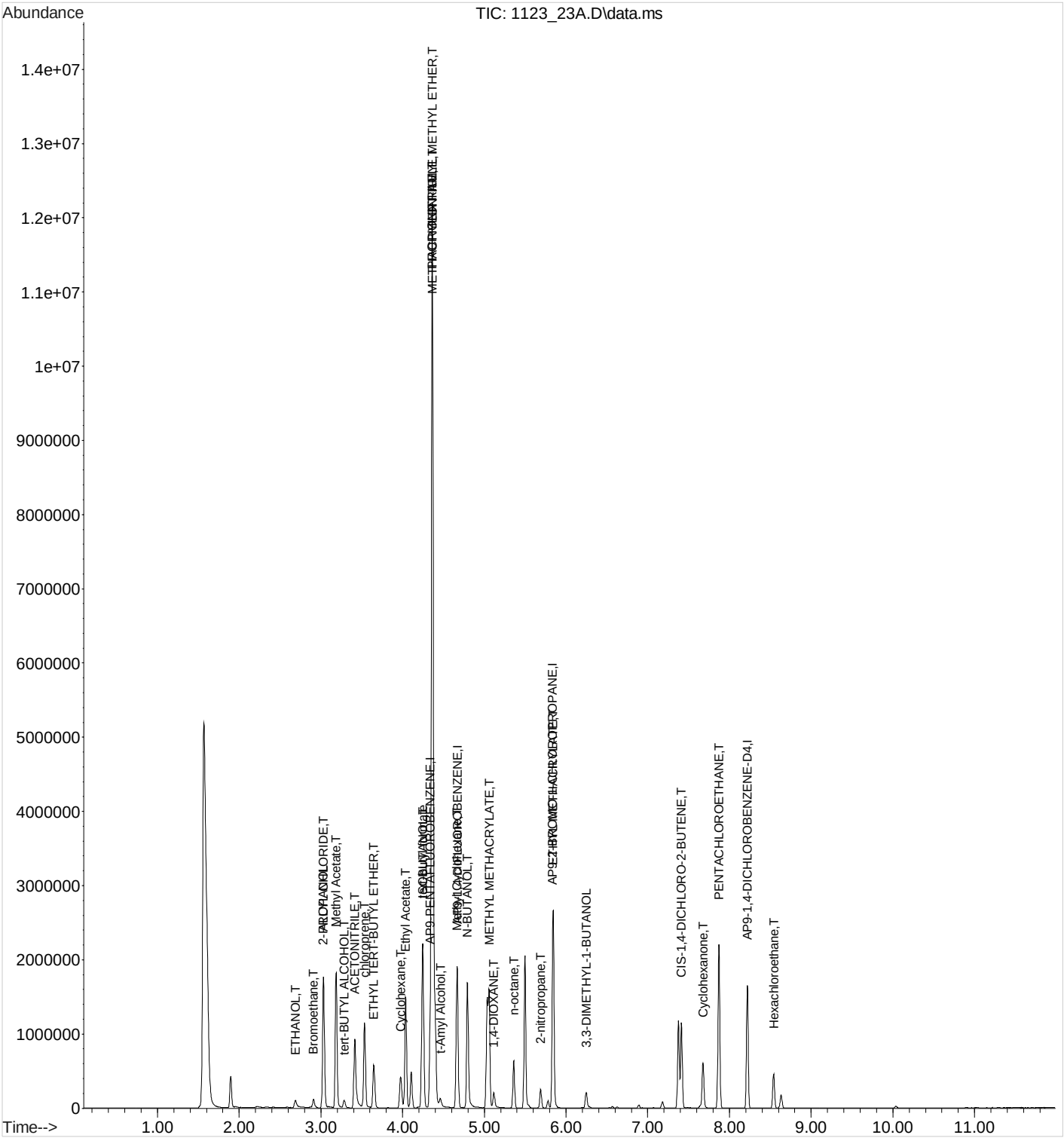
	Compound	R.T.	QIon	Response	Conc Units		Dev(Min)
97)	ETHANOL	2.686	45	143952	1585.8790867 ppb	#	93
98)	Bromoethane	2.908	108	84839	14.6526932 ppb		96
99)	2-PROPANOL	3.027	45	42298	58.1649178 ppb		97
100)	Methyl Acetate	3.187	43	1973717	309.1832942 ppb	#	100
101)	ACETONITRILE	3.416	41	985338	783.2623593 ppb		100
102)	ALLYL CHLORIDE	3.033	76	337691	73.6569717 ppb		99
103)	tert-BUTYL ALCOHOL	3.284	59	103564	71.1946766 ppb		98
104)	chloroprene	3.535	53	606132	76.5659801 ppb		99
105)	ETHYL TERT-BUTYL ETHER	3.647	59	420744	15.1506624 ppb		99
106)	PROPIONITRILE	4.358	54	978139	780.0534741 ppb		97
107)	Ethyl Acetate	4.036	43	1394358	157.9799669 ppb		100
108)	METHACRYLONITRILE	4.364	67	2863685	776.9892173 ppb		100
109)	Cyclohexane	3.975	84	152774	15.0538666 ppb		98
110)	tert-butyl formate	4.245	59	906361	166.6043176 ppb		98
111)	ISOBUTANOL	4.245	41	727558	1612.2406350 ppb	#	99
112)	t-Amyl Alcohol	4.464	59	48760	79.2435437 ppb		96
113)	TERT-AMYL METHYL ETHER	4.367	73	364804	14.8882175 ppb	#	98
115)	N-BUTANOL	4.792	56	833043	3408.6410330 ppb		99
116)	Methyl Cyclohexane	4.663	83	196115	11.8969571 ppb		97
117)	2-nitropropane	5.689	43	153104	78.5194179 ppb		98
118)	METHYL METHACRYLATE	5.059	41	641713	81.6034956 ppb		95
119)	1,4-DIOXANE	5.116	88	130700	1674.9638824 ppb		94
120)	n-octane	5.361	85	104305	15.6117755 ppb		99
121)	3,3-DIMETHYL-1-BUTANOL	6.248	57	98355	164.0886811 ppb		98
123)	ETHYL METHACRYLATE	5.843	69	891914	80.9219064 ppb		81
124)	CIS-1,4-DICHLORO-2-BUTENE	7.412	53	233405	78.1361484 ppb		98
125)	Cyclohexanone	7.676	55	240503	156.8169881 ppb		99
126)	PENTACHLOROETHANE	7.872	117	421006	79.4326148 ppb		99
127)	Hexachloroethane	8.541	117	96679	14.7867632 ppb		99

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\MSDchem\1\data\112314a\
Data File : 1123 23A.D
Acq On : 24 Nov 2014 11:51 am
Operator : 644
Sample : STD VMS 15 ppb 14I02840
Misc : water IS/SURR14K01013
ALS Vial : 23 Sample Multiplier: 1
InstName : VOCMS20

Quant Time: Nov 24 14:28:51 2014
Quant Method : C:\MSDchem\1\methods\V820K23N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS20
QLast Update : Mon Nov 24 14:28:19 2014
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\MSDchem\1\data\112314a\
Data File : 1123 24A.D
Acq On : 24 Nov 2014 12:09 pm
Operator : 644
Sample : STD VMS 17.5 ppb 14I02840
Misc : water IS/SURR14K01013
ALS Vial : 24 Sample Multiplier: 1
InstName : VOCMS20

Quant Time: Nov 24 14:29:39 2014
Quant Method : C:\MSDchem\1\methods\V820K23N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS20
QLast Update : Mon Nov 24 14:29:13 2014
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards							
1)	8260-PENTAFLUOROBENZENE	0.000	168	0m	40.0000000	ppb	-4.34
41)	8260-1,4-DIFLUOROBENZENE	0.000	114	0m	40.0000000	ppb	-4.67
53)	8260-2-BROMO-1-CHLOROP...	0.000	79	0m	40.0000000	ppb	-5.84
84)	8260-1,4-DICHLOROBENZE...	0.000	152	0m	40.0000000	ppb	-8.22
96)	AP9-PENTAFLUOROBENZENE	4.341	168	488948	40.0000000	ppb	0.00
114)	AP9-1,4-DIFLUOROBENZENE	4.669	114	912792	40.0000000	ppb	0.00
122)	AP9-2-BROMO-1-CHLOROPR...	5.837	79	153057	40.0000000	ppb	# 0.00
128)	AP9-1,4-DICHLOROBENZEN...	8.219	152	367840	40.0000000	ppb	0.00

System Monitoring Compounds

33)	DIBROMOFLUOROMETHANE	0.000	111	0d	0.0000000	ppb
Spiked Amount	40.000	Range 78 - 121		Recovery	=	0.00%#
46)	a,a,a-Trifluorotoluene	0.000	146	0d	0.0000000	ppb
Spiked Amount	40.000	Range 85 - 114		Recovery	=	0.00%#
50)	TOLUENE-D8	0.000	98	0d	0.0000000	ppb
Spiked Amount	40.000	Range 89 - 111		Recovery	=	0.00%#
68)	4-BROMOFLUOROBENZENE	0.000	95	0d	0.0000000	ppb
Spiked Amount	40.000	Range 71 - 126		Recovery	=	0.00%#

Target Compounds

				Qvalue
2)	TPH (GC/MS) LOW FRACTION	0.000	0	N.D. d
3)	PROPENE	0.000	0	N.D. d
4)	DICHLORODIFLUOROMETHANE	0.000	0	N.D.
5)	CHLOROMETHANE	0.000	0	N.D. d
6)	VINYL CHLORIDE	0.000	0	N.D.
7)	1,3-BUTADIENE	0.000	0	N.D. d
8)	BROMOMETHANE	0.000	0	N.D. d
9)	CHLOROETHANE	0.000	0	N.D.
10)	TRICHLOROFLUOROMETHANE	0.000	0	N.D.
11)	DICHLOROFLUOROMETHANE	0.000	0	N.D. d
12)	ETHYL ETHER	0.000	0	N.D.
13)	ACROLEIN	0.000	0	N.D.
14)	1,1-DICHLOROETHENE	0.000	0	N.D.
15)	1,1,2-TRICHLOROTRIFLUO...	0.000	0	N.D.
16)	ACETONE	0.000	0	N.D. d
17)	IODOMETHANE	0.000	0	N.D. d
18)	CARBON DISULFIDE	0.000	0	N.D. d
19)	METHYLENE CHLORIDE	0.000	0	N.D. d
20)	ACRYLONITRILE	0.000	0	N.D. d
21)	n-Hexane	0.000	0	N.D. d
22)	TRANS-1,2-DICHLOROETHENE	0.000	0	N.D.
23)	METHYL TERT-BUTYL ETHER	0.000	0	N.D. d
24)	1,1-DICHLOROETHANE	0.000	0	N.D. d
25)	VINYL ACETATE	0.000	0	N.D. d
26)	DI-ISOPROPYL ETHER	0.000	0	N.D. d
27)	2,2-Dichloropropane	0.000	0	N.D. d
28)	CIS-1,2-DICHLOROETHENE	0.000	0	N.D.
29)	2-BUTANONE (MEK)	0.000	0	N.D. d
30)	BROMOCHLOROMETHANE	0.000	0	N.D.
31)	TETRAHYDROFURAN	0.000	0	N.D. d
32)	CHLOROFORM	0.000	0	N.D. d
34)	1,1,1-TRICHLOROETHANE	0.000	0	N.D.
35)	CARBON TETRACHLORIDE	0.000	0	N.D.

Quantitation Report (QT Reviewed)

Data Path : C:\MSDchem\1\data\112314a\
Data File : 1123 24A.D
Acq On : 24 Nov 2014 12:09 pm
Operator : 644
Sample : STD VMS 17.5 ppb 14I02840
Misc : water IS/SURR14K01013
ALS Vial : 24 Sample Multiplier: 1
InstName : VOCMS20

Quant Time: Nov 24 14:29:39 2014
Quant Method : C:\MSDchem\1\methods\V820K23N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS20
QLast Update : Mon Nov 24 14:29:13 2014
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
36) 1,1-Dichloropropene	0.000		0	N.D.	
37) 2,2,4-TRIMETHYLPENTANE	0.000		0	N.D.	d
38) HEPTANE	0.000		0	N.D.	d
39) BENZENE	0.000		0	N.D.	d
40) 1,2-DICHLOROETHANE	0.000		0	N.D.	d
42) TRICHLOROETHENE	0.000		0	N.D.	d
43) 1,2-DICHLOROPROPANE	0.000		0	N.D.	d
44) DIBROMOMETHANE	0.000		0	N.D.	d
45) BROMODICHLOROMETHANE	0.000		0	N.D.	d
47) 2-CHLOROETHYL VINYL ETHER	0.000		0	N.D.	
48) CIS-1,3-DICHLOROPROPENE	0.000		0	N.D.	
49) 4-METHYL-2-PENTANONE (...	0.000		0	N.D.	d
51) TOLUENE	0.000		0	N.D.	d
52) TRANS-1,3-DICHLOROPROPENE	0.000		0	N.D.	
54) 1,1,2-TRICHLOROETHANE	0.000		0	N.D.	d
55) TETRACHLOROETHENE	0.000		0	N.D.	d
56) 1,3-Dichloropropane	0.000		0	N.D.	d
57) 2-HEXANONE	0.000		0	N.D.	d
58) CHLORODIBROMOMETHANE	0.000		0	N.D.	
59) 1,2-DIBROMOETHANE	0.000		0	N.D.	
60) CHLOROBENZENE	0.000		0	N.D.	d
61) 1,1,1,2-TETRACHLOROETHANE	0.000		0	N.D.	d
62) ETHYLBENZENE	0.000		0	N.D.	d
63) M&P-XYLENE	0.000		0	N.D.	d
64) O-XYLENE	0.000		0	N.D.	d
65) STYRENE	0.000		0	N.D.	d
66) Bromoform	0.000		0	N.D.	
67) Isopropylbenzene	0.000		0	N.D.	d
69) Bromobenzene	0.000		0	N.D.	d
70) 1,1,2,2-TETRACHLOROETHANE	0.000		0	N.D.	d
71) 1,2,3-TRICHLOROPROPANE	0.000		0	N.D.	
72) TRANS-1,4-DICHLORO-2-B...	0.000		0	N.D.	d
73) n-Propylbenzene	0.000		0	N.D.	d
74) 4-ETHYLTOLUENE	0.000		0	N.D.	d
75) 2-Chlorotoluene	0.000		0	N.D.	
76) 4-Chlorotoluene	0.000		0	N.D.	d
77) 1,3,5-Trimethylbenzene	0.000		0	N.D.	d
78) tert-Butylbenzene	0.000		0	N.D.	d
79) 1,2,4-Trimethylbenzene	0.000		0	N.D.	d
80) sec-Butylbenzene	0.000		0	N.D.	d
81) 1,3-DICHLOROBENZENE	0.000		0	N.D.	d
82) p-Isopropyltoluene	0.000		0	N.D.	d
83) DICYCLOPENTADIENE	0.000		0	N.D.	d
85) 1,4-DICHLOROBENZENE	0.000		0	N.D.	d
86) 1,2,3-TRIMETHYLBENZENE	0.000		0	N.D.	d
87) 1,2-DICHLOROBENZENE	0.000		0	N.D.	d
88) n-Butylbenzene	0.000		0	N.D.	d
89) 1,2-Dibromo-3-chloropr...	0.000		0	N.D.	
90) 1,2,4-Trichlorobenzene	0.000		0	N.D.	d
91) HEXACHLORO-1,3-BUTADIENE	0.000		0	N.D.	
92) Naphthalene	0.000		0	N.D.	d
93) 1,2,3-Trichlorobenzene	0.000		0	N.D.	d
94) 1-Methylnaphthalene	0.000		0	N.D.	d
95) 2-Methylnaphthalene	0.000		0	N.D.	d

Quantitation Report (QT Reviewed)

Data Path : C:\MSDchem\1\data\112314a\
Data File : 1123 24A.D
Acq On : 24 Nov 2014 12:09 pm
Operator : 644
Sample : STD VMS 17.5 ppb 14I02840
Misc : water IS/SURR14K01013
ALS Vial : 24 Sample Multiplier: 1
InstName : VOCMS20

Quant Time: Nov 24 14:29:39 2014
Quant Method : C:\MSDchem\1\methods\V820K23N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS20
QLast Update : Mon Nov 24 14:29:13 2014
Response via : Initial Calibration

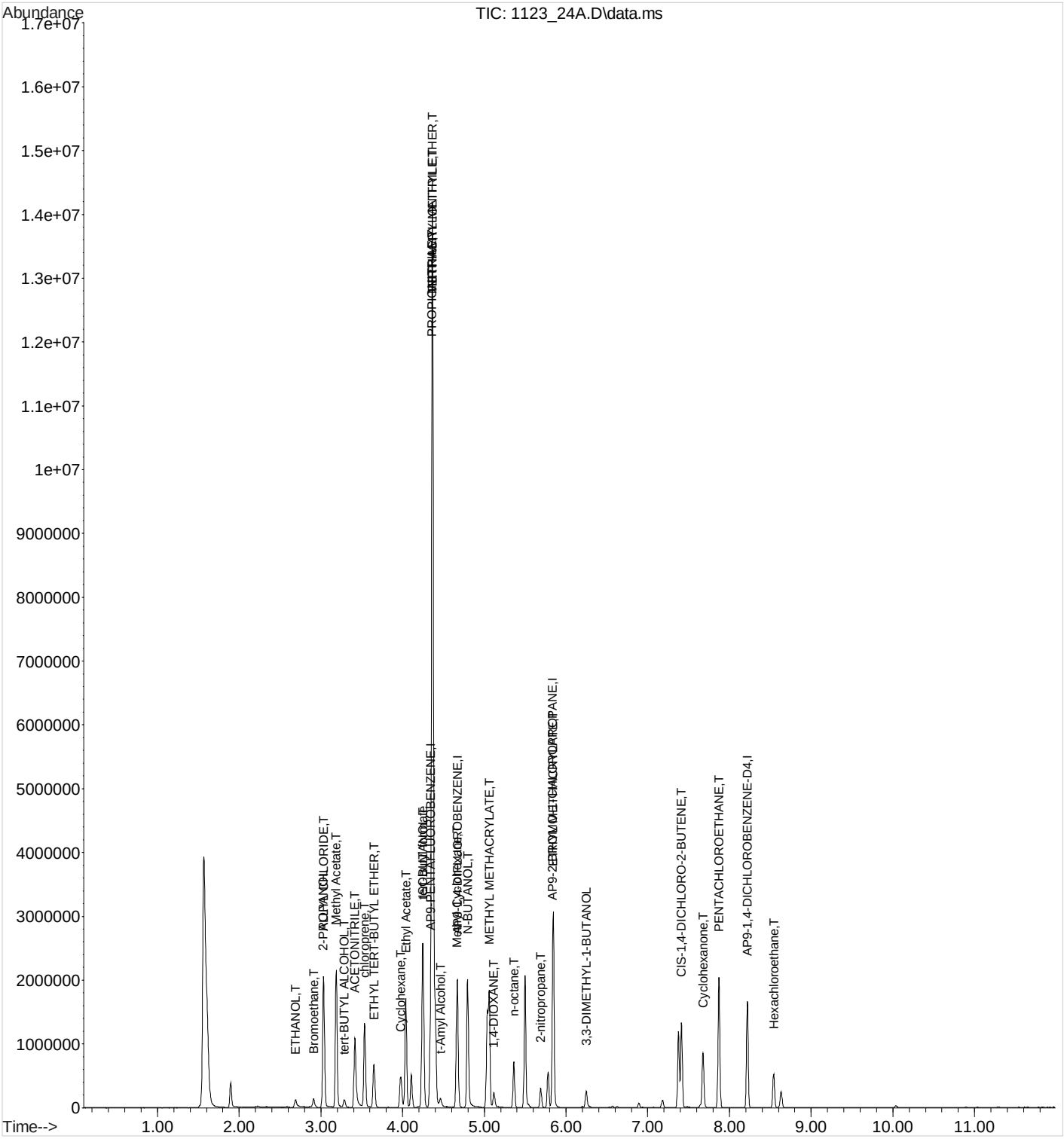
	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
97)	ETHANOL	2.689	45	159184	1720.1341903	ppb	#	99
98)	Bromoethane	2.911	108	97241	16.6631996	ppb		98
99)	2-PROPANOL	3.026	45	51060	71.7339749	ppb		91
100)	Methyl Acetate	3.187	43	2288175	352.9177668	ppb	#	100
101)	ACETONITRILE	3.415	41	1148328	897.0017300	ppb		100
102)	ALLYL CHLORIDE	3.033	76	394609	85.3339697	ppb		97
103)	tert-BUTYL ALCOHOL	3.287	59	122307	83.7524514	ppb		98
104)	chloroprene	3.534	53	693933	86.4252922	ppb		99
105)	ETHYL TERT-BUTYL ETHER	3.650	59	495266	17.6107425	ppb		100
106)	PROPIONITRILE	4.358	54	1127937	884.4591957	ppb		97
107)	Ethyl Acetate	4.039	43	1602234	178.1614341	ppb		100
108)	METHACRYLONITRILE	4.364	67	3299143	880.6678862	ppb		100
109)	Cyclohexane	3.978	84	172798	16.8291724	ppb		98
110)	tert-butyl formate	4.248	59	1074681	192.3086196	ppb		100
111)	ISOBUTANOL	4.245	41	845305	1832.7619763	ppb	#	99
112)	t-Amyl Alcohol	4.464	59	56352	89.8382816	ppb		96
113)	TERT-AMYL METHYL ETHER	4.367	73	431221	17.4218306	ppb	#	98
115)	N-BUTANOL	4.795	56	960193	3799.5169235	ppb		99
116)	Methyl Cyclohexane	4.663	83	225644	13.9060171	ppb		97
117)	2-nitropropane	5.689	43	186059	93.4470029	ppb		96
118)	METHYL METHACRYLATE	5.058	41	727179	90.0339977	ppb		95
119)	1,4-DIOXANE	5.116	88	152060	1889.7029234	ppb		96
120)	n-octane	5.361	85	114521	16.8009973	ppb		99
121)	3,3-DIMETHYL-1-BUTANOL	6.248	57	116439	188.9809070	ppb		97
123)	ETHYL METHACRYLATE	5.843	69	1045660	92.5925002	ppb	#	77
124)	CIS-1,4-DICHLORO-2-BUTENE	7.412	53	266727	87.6063865	ppb		96
125)	Cyclohexanone	7.676	55	341210	218.1711935	ppb		99
126)	PENTACHLOROETHANE	7.872	117	382486	70.6298465	ppb		99
127)	Hexachloroethane	8.541	117	110060	16.6481846	ppb		99

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\MSDchem\1\data\112314a\
Data File : 1123 24A.D
Acq On : 24 Nov 2014 12:09 pm
Operator : 644
Sample : STD VMS 17.5 ppb 14I02840
Misc : water IS/SURR14K01013
ALS Vial : 24 Sample Multiplier: 1
InstName : VOCMS20

Quant Time: Nov 24 14:29:39 2014
Quant Method : C:\MSDchem\1\methods\V820K23N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS20
QLast Update : Mon Nov 24 14:29:13 2014
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\MSDchem\1\data\112314a\
Data File : 1123 25A.D
Acq On : 24 Nov 2014 12:27 pm
Operator : 644
Sample : STD VMS 20 ppb 14I02840
Misc : water IS/SURR14K01013
ALS Vial : 25 Sample Multiplier: 1
InstName : VOCMS20

Quant Time: Nov 24 14:30:31 2014
Quant Method : C:\MSDchem\1\methods\V820K23N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS20
QLast Update : Mon Nov 24 14:30:05 2014
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards							
1)	8260-PENTAFLUOROBENZENE	0.000	168	0m	40.0000000	ppb	-4.34
41)	8260-1,4-DIFLUOROBENZENE	0.000	114	0m	40.0000000	ppb	-4.67
53)	8260-2-BROMO-1-CHLOROP...	0.000	79	0m	40.0000000	ppb	-5.84
84)	8260-1,4-DICHLOROBENZE...	0.000	152	0m	40.0000000	ppb	-8.22
96)	AP9-PENTAFLUOROBENZENE	4.341	168	474934	40.0000000	ppb	0.00
114)	AP9-1,4-DIFLUOROBENZENE	4.669	114	888470	40.0000000	ppb	0.00
122)	AP9-2-BROMO-1-CHLOROPR...	5.837	79	147419	40.0000000	ppb	# 0.00
128)	AP9-1,4-DICHLOROBENZEN...	8.219	152	355390	40.0000000	ppb	0.00

System Monitoring Compounds

33)	DIBROMOFLUOROMETHANE	0.000	111	0d	0.0000000	ppb
	Spiked Amount 40.000	Range 78 - 121		Recovery	=	0.00%#
46)	a,a,a-Trifluorotoluene	0.000	146	0d	0.0000000	ppb
	Spiked Amount 40.000	Range 85 - 114		Recovery	=	0.00%#
50)	TOLUENE-D8	0.000	98	0d	0.0000000	ppb
	Spiked Amount 40.000	Range 89 - 111		Recovery	=	0.00%#
68)	4-BROMOFLUOROBENZENE	0.000	95	0d	0.0000000	ppb
	Spiked Amount 40.000	Range 71 - 126		Recovery	=	0.00%#

Target Compounds

				Qvalue
2)	TPH (GC/MS) LOW FRACTION	0.000	0	N.D. d
3)	PROPENE	0.000	0	N.D. d
4)	DICHLORODIFLUOROMETHANE	0.000	0	N.D.
5)	CHLOROMETHANE	0.000	0	N.D. d
6)	VINYL CHLORIDE	0.000	0	N.D.
7)	1,3-BUTADIENE	0.000	0	N.D. d
8)	BROMOMETHANE	0.000	0	N.D.
9)	CHLOROETHANE	0.000	0	N.D.
10)	TRICHLOROFLUOROMETHANE	0.000	0	N.D.
11)	DICHLOROFLUOROMETHANE	0.000	0	N.D. d
12)	ETHYL ETHER	0.000	0	N.D.
13)	ACROLEIN	0.000	0	N.D.
14)	1,1-DICHLOROETHENE	0.000	0	N.D.
15)	1,1,2-TRICHLOROTRIFLUO...	0.000	0	N.D.
16)	ACETONE	0.000	0	N.D. d
17)	IODOMETHANE	0.000	0	N.D. d
18)	CARBON DISULFIDE	0.000	0	N.D. d
19)	METHYLENE CHLORIDE	0.000	0	N.D. d
20)	ACRYLONITRILE	0.000	0	N.D. d
21)	n-Hexane	0.000	0	N.D. d
22)	TRANS-1,2-DICHLOROETHENE	0.000	0	N.D.
23)	METHYL TERT-BUTYL ETHER	0.000	0	N.D. d
24)	1,1-DICHLOROETHANE	0.000	0	N.D. d
25)	VINYL ACETATE	0.000	0	N.D. d
26)	DI-ISOPROPYL ETHER	0.000	0	N.D. d
27)	2,2-Dichloropropane	0.000	0	N.D. d
28)	CIS-1,2-DICHLOROETHENE	0.000	0	N.D.
29)	2-BUTANONE (MEK)	0.000	0	N.D.
30)	BROMOCHLOROMETHANE	0.000	0	N.D.
31)	TETRAHYDROFURAN	0.000	0	N.D. d
32)	CHLOROFORM	0.000	0	N.D. d
34)	1,1,1-TRICHLOROETHANE	0.000	0	N.D.
35)	CARBON TETRACHLORIDE	0.000	0	N.D.

Quantitation Report (QT Reviewed)

Data Path : C:\MSDchem\1\data\112314a\
Data File : 1123 25A.D
Acq On : 24 Nov 2014 12:27 pm
Operator : 644
Sample : STD VMS 20 ppb 14I02840
Misc : water IS/SURR14K01013
ALS Vial : 25 Sample Multiplier: 1
InstName : VOCMS20

Quant Time: Nov 24 14:30:31 2014
Quant Method : C:\MSDchem\1\methods\V820K23N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS20
QLast Update : Mon Nov 24 14:30:05 2014
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
36) 1,1-Dichloropropene	0.000		0	N.D.	
37) 2,2,4-TRIMETHYLPENTANE	0.000		0	N.D.	d
38) HEPTANE	0.000		0	N.D.	d
39) BENZENE	0.000		0	N.D.	d
40) 1,2-DICHLOROETHANE	0.000		0	N.D.	d
42) TRICHLOROETHENE	0.000		0	N.D.	d
43) 1,2-DICHLOROPROPANE	0.000		0	N.D.	d
44) DIBROMOMETHANE	0.000		0	N.D.	d
45) BROMODICHLOROMETHANE	0.000		0	N.D.	d
47) 2-CHLOROETHYL VINYL ETHER	0.000		0	N.D.	
48) CIS-1,3-DICHLOROPROPENE	0.000		0	N.D.	d
49) 4-METHYL-2-PENTANONE (...	0.000		0	N.D.	d
51) TOLUENE	0.000		0	N.D.	d
52) TRANS-1,3-DICHLOROPROPENE	0.000		0	N.D.	
54) 1,1,2-TRICHLOROETHANE	0.000		0	N.D.	d
55) TETRACHLOROETHENE	0.000		0	N.D.	d
56) 1,3-Dichloropropane	0.000		0	N.D.	d
57) 2-HEXANONE	0.000		0	N.D.	d
58) CHLORODIBROMOMETHANE	0.000		0	N.D.	
59) 1,2-DIBROMOETHANE	0.000		0	N.D.	
60) CHLOROBENZENE	0.000		0	N.D.	d
61) 1,1,1,2-TETRACHLOROETHANE	0.000		0	N.D.	d
62) ETHYLBENZENE	0.000		0	N.D.	d
63) M&P-XYLENE	0.000		0	N.D.	d
64) O-XYLENE	0.000		0	N.D.	d
65) STYRENE	0.000		0	N.D.	d
66) Bromoform	0.000		0	N.D.	
67) Isopropylbenzene	0.000		0	N.D.	d
69) Bromobenzene	0.000		0	N.D.	d
70) 1,1,2,2-TETRACHLOROETHANE	0.000		0	N.D.	d
71) 1,2,3-TRICHLOROPROPANE	0.000		0	N.D.	
72) TRANS-1,4-DICHLORO-2-B...	0.000		0	N.D.	d
73) n-Propylbenzene	0.000		0	N.D.	d
74) 4-ETHYLTOLUENE	0.000		0	N.D.	d
75) 2-Chlorotoluene	0.000		0	N.D.	
76) 4-Chlorotoluene	0.000		0	N.D.	d
77) 1,3,5-Trimethylbenzene	0.000		0	N.D.	d
78) tert-Butylbenzene	0.000		0	N.D.	d
79) 1,2,4-Trimethylbenzene	0.000		0	N.D.	d
80) sec-Butylbenzene	0.000		0	N.D.	d
81) 1,3-DICHLOROBENZENE	0.000		0	N.D.	d
82) p-Isopropyltoluene	0.000		0	N.D.	d
83) DICYCLOPENTADIENE	0.000		0	N.D.	d
85) 1,4-DICHLOROBENZENE	0.000		0	N.D.	d
86) 1,2,3-TRIMETHYLBENZENE	0.000		0	N.D.	d
87) 1,2-DICHLOROBENZENE	0.000		0	N.D.	d
88) n-Butylbenzene	0.000		0	N.D.	d
89) 1,2-Dibromo-3-chloropr...	0.000		0	N.D.	
90) 1,2,4-Trichlorobenzene	0.000		0	N.D.	d
91) HEXACHLORO-1,3-BUTADIENE	0.000		0	N.D.	
92) Naphthalene	0.000		0	N.D.	d
93) 1,2,3-Trichlorobenzene	0.000		0	N.D.	d
94) 1-Methylnaphthalene	0.000		0	N.D.	d
95) 2-Methylnaphthalene	0.000		0	N.D.	d

Quantitation Report (QT Reviewed)

Data Path : C:\MSDchem\1\data\112314a\
Data File : 1123 25A.D
Acq On : 24 Nov 2014 12:27 pm
Operator : 644
Sample : STD VMS 20 ppb 14I02840
Misc : water IS/SURR14K01013
ALS Vial : 25 Sample Multiplier: 1
InstName : VOCMS20

Quant Time: Nov 24 14:30:31 2014
Quant Method : C:\MSDchem\1\methods\V820K23N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS20
QLast Update : Mon Nov 24 14:30:05 2014
Response via : Initial Calibration

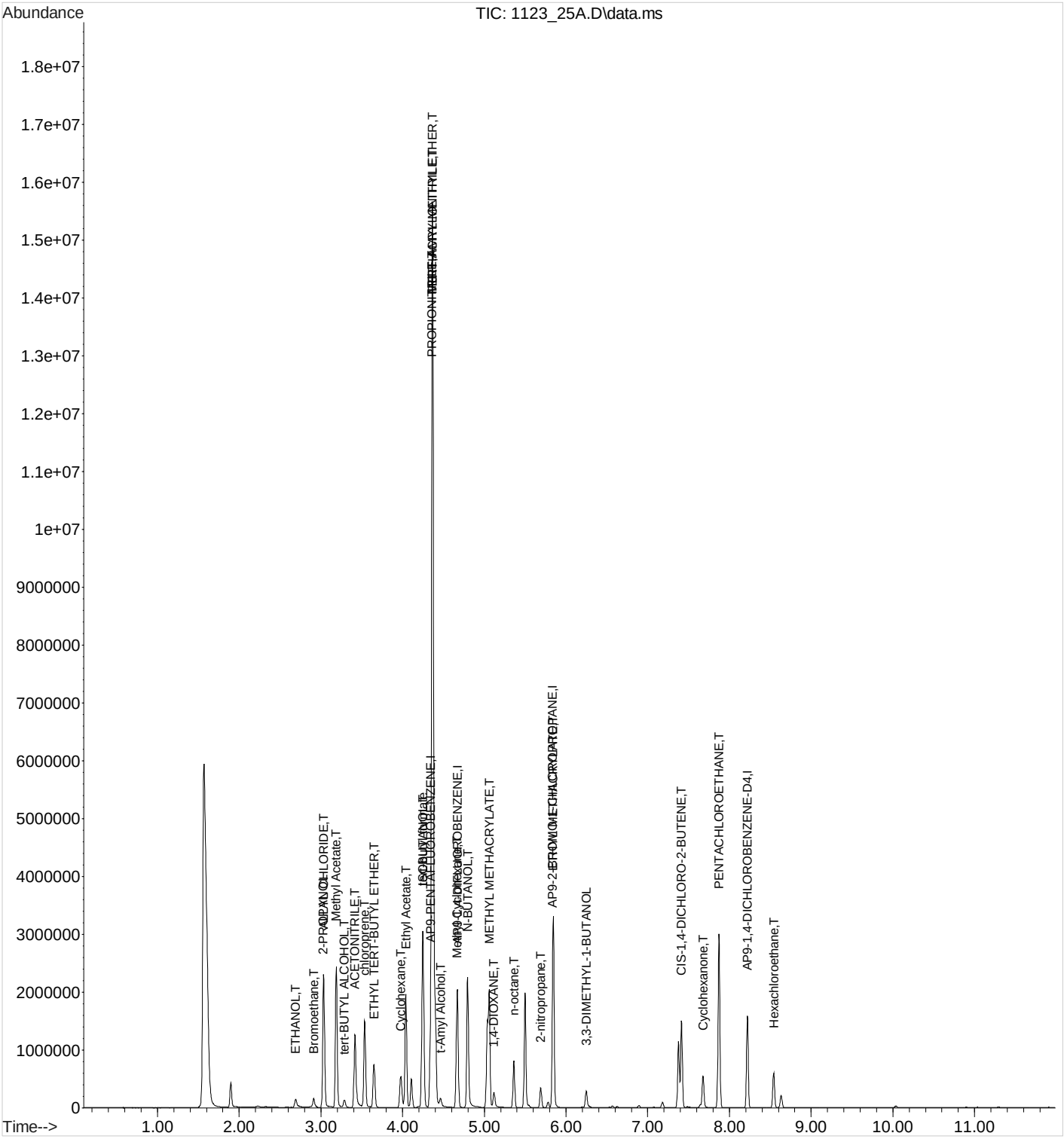
	Compound	R.T.	QIon	Response	Conc Units		Dev(Min)
97)	ETHANOL	2.689	45	181613	2024.7281349 ppb	#	99
98)	Bromoethane	2.911	108	109570	19.4461524 ppb		99
99)	2-PROPANOL	3.026	45	54083	80.0253676 ppb		100
100)	Methyl Acetate	3.187	43	2575848	408.5842349 ppb	#	100
101)	ACETONITRILE	3.415	41	1285346	1030.4190925 ppb		98
102)	ALLYL CHLORIDE	3.033	76	434346	96.9987495 ppb		100
103)	tert-BUTYL ALCOHOL	3.287	59	131702	93.3467709 ppb		97
104)	chloroprene	3.534	53	784231	100.7080107 ppb		99
105)	ETHYL TERT-BUTYL ETHER	3.650	59	559713	20.4734277 ppb		99
106)	PROPIONITRILE	4.358	54	1270085	1023.9262716 ppb		96
107)	Ethyl Acetate	4.039	43	1817192	207.5574762 ppb		100
108)	METHACRYLONITRILE	4.367	67	3704914	1017.3421977 ppb		100
109)	Cyclohexane	3.978	84	198456	19.9941834 ppb		97
110)	tert-butyl formate	4.248	59	1287852	234.3571222 ppb		99
111)	ISOBUTANOL	4.248	41	989584	2195.9118504 ppb	#	99
112)	t-Amyl Alcohol	4.464	59	63663	104.1406572 ppb		98
113)	TERT-AMYL METHYL ETHER	4.367	73	492213	20.4841965 ppb	#	96
115)	N-BUTANOL	4.795	56	1076136	4328.5762687 ppb		99
116)	Methyl Cyclohexane	4.663	83	253363	16.4643931 ppb		98
117)	2-nitropropane	5.689	43	209895	107.3919643 ppb		97
118)	METHYL METHACRYLATE	5.058	41	809850	102.6430488 ppb		95
119)	1,4-DIOXANE	5.116	88	165471	2091.7859810 ppb		98
120)	n-octane	5.361	85	129582	19.6289684 ppb		100
121)	3,3-DIMETHYL-1-BUTANOL	6.248	57	130601	215.6152686 ppb		98
123)	ETHYL METHACRYLATE	5.843	69	1181648	107.8512345 ppb	#	74
124)	CIS-1,4-DICHLORO-2-BUTENE	7.412	53	306036	104.3458162 ppb		97
125)	Cyclohexanone	7.676	55	214354	138.0438836 ppb		98
126)	PENTACHLOROETHANE	7.872	117	557711	109.5661609 ppb		98
127)	Hexachloroethane	8.541	117	128380	20.2854653 ppb		97

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\MSDchem\1\data\112314a\
Data File : 1123 25A.D
Acq On : 24 Nov 2014 12:27 pm
Operator : 644
Sample : STD VMS 20 ppb 14I02840
Misc : water IS/SURR14K01013
ALS Vial : 25 Sample Multiplier: 1
InstName : VOCMS20

Quant Time: Nov 24 14:30:31 2014
Quant Method : C:\MSDchem\1\methods\V820K23N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS20
QLast Update : Mon Nov 24 14:30:05 2014
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\MSDchem\1\data\112314a\
Data File : 1123 01a.D
Acq On : 23 Nov 2014 11:39 pm
Operator : 644
Sample : INSTBLK VMS
Misc : water IS/SURR14K01013
ALS Vial : 1 Sample Multiplier: 1
InstName : VOCMS20

Quant Time: Nov 24 14:40:09 2014
Quant Method : C:\MSDchem\1\methods\V820K23N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS20
QLast Update : Mon Nov 24 14:32:41 2014
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 8260-PENTAFLUOROBENZENE	4.341	168	430370	40.0000000 ppb	0.00
41) 8260-1,4-DIFLUOROBENZENE	4.669	114	846361	40.0000000 ppb	0.00
53) 8260-2-BROMO-1-CHLOROP...	5.836	79	138064	40.0000000 ppb	0.00
84) 8260-1,4-DICHLOROBENZE...	8.219	152	339952	40.0000000 ppb	0.00
96) AP9-PENTAFLUOROBENZENE	4.341	168	430370	40.0000000 ppb	0.00
114) AP9-1,4-DIFLUOROBENZENE	4.669	114	846361	40.0000000 ppb	0.00
122) AP9-2-BROMO-1-CHLOROPR...	5.836	79	138064	40.0000000 ppb	# 0.00
128) AP9-1,4-DICHLOROBENZEN...	8.219	152	339952	40.0000000 ppb	0.00
System Monitoring Compounds					
33) DIBROMOFLUOROMETHANE	4.107	111	247093	41.8797768 ppb	0.00
Spiked Amount 40.000	Range 78 - 121		Recovery = 104.70%		
46) a,a,a-Trifluorotoluene	5.036	146	452315	42.2010241 ppb	0.00
Spiked Amount 40.000	Range 85 - 114		Recovery = 105.50%		
50) TOLUENE-D8	5.499	98	1079172	40.2353809 ppb	0.00
Spiked Amount 40.000	Range 89 - 111		Recovery = 100.59%		
68) 4-BROMOFLUOROBENZENE	7.377	95	360471	39.8156978 ppb	0.00
Spiked Amount 40.000	Range 71 - 126		Recovery = 99.54%		
Target Compounds					Qvalue
2) TPH (GC/MS) LOW FRACTION	4.096	TIC -7314779		No Calib	
3) PROPENE	1.673	41	1220	0.6134038 ppb #	17
4) DICHLORODIFLUOROMETHANE	0.000		0	N.D.	
5) CHLOROMETHANE	0.000		0	N.D.	
6) VINYL CHLORIDE	0.000		0	N.D.	
7) 1,3-BUTADIENE	0.000		0	N.D.	
8) BROMOMETHANE	0.000		0	N.D.	
9) CHLOROETHANE	0.000		0	N.D.	
10) TRICHLOROFLUOROMETHANE	0.000		0	N.D.	
11) DICHLOROFLUOROMETHANE	0.000		0	N.D.	
12) ETHYL ETHER	0.000		0	N.D.	
13) ACROLEIN	0.000		0	N.D.	
14) 1,1-DICHLOROETHENE	0.000		0	N.D.	
15) 1,1,2-TRICHLOROTRIFLUO...	0.000		0	N.D.	
16) ACETONE	3.129	43	5876	2.6690562 ppb	93
17) IODOMETHANE	0.000		0	N.D.	
18) CARBON DISULFIDE	2.776	76	1365	N.D.	
19) METHYLENE CHLORIDE	0.000		0	N.D.	
20) ACRYLONITRILE	0.000		0	N.D.	
21) n-Hexane	0.000		0	N.D.	
22) TRANS-1,2-DICHLOROETHENE	0.000		0	N.D.	
23) METHYL TERT-BUTYL ETHER	0.000		0	N.D.	
24) 1,1-DICHLOROETHANE	0.000		0	N.D.	
25) VINYL ACETATE	3.676	43	506	N.D.	
26) DI-ISOPROPYL ETHER	0.000		0	N.D.	
27) 2,2-Dichloropropane	0.000		0	N.D.	
28) CIS-1,2-DICHLOROETHENE	0.000		0	N.D.	
29) 2-BUTANONE (MEK)	0.000		0	N.D.	
30) BROMOCHLOROMETHANE	0.000		0	N.D.	
31) TETRAHYDROFURAN	0.000		0	N.D.	
32) CHLOROFORM	0.000		0	N.D.	
34) 1,1,1-TRICHLOROETHANE	0.000		0	N.D.	
35) CARBON TETRACHLORIDE	0.000		0	N.D.	

Quantitation Report (QT Reviewed)

Data Path : C:\MSDchem\1\data\112314a\
Data File : 1123 01a.D
Acq On : 23 Nov 2014 11:39 pm
Operator : 644
Sample : INSTBLK VMS
Misc : water IS/SURR14K01013
ALS Vial : 1 Sample Multiplier: 1
InstName : VOCMS20

Quant Time: Nov 24 14:40:09 2014
Quant Method : C:\MSDchem\1\methods\V820K23N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS20
QLast Update : Mon Nov 24 14:32:41 2014
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
36) 1,1-Dichloropropene	0.000		0	N.D.	
37) 2,2,4-TRIMETHYLPENTANE	4.229	57	815	N.D.	
38) HEPTANE	0.000		0	N.D.	
39) BENZENE	4.341	78	1272	N.D.	
40) 1,2-DICHLOROETHANE	0.000		0	N.D.	
42) TRICHLOROETHENE	0.000		0	N.D.	
43) 1,2-DICHLOROPROPANE	5.036	62	8935	1.2522051 ppb #	16
44) DIBROMOMETHANE	5.036	93	1873	0.4047241 ppb #	1
45) BROMODICHLOROMETHANE	0.000		0	N.D.	
47) 2-CHLOROETHYL VINYL ETHER	0.000		0	N.D.	
48) CIS-1,3-DICHLOROPROPENE	0.000		0	N.D.	
49) 4-METHYL-2-PENTANONE (...	0.000		0	N.D.	
51) TOLUENE	5.534	91	3833	N.D.	
52) TRANS-1,3-DICHLOROPROPENE	0.000		0	N.D.	
54) 1,1,2-TRICHLOROETHANE	0.000		0	N.D.	
55) TETRACHLOROETHENE	0.000		0	N.D.	
56) 1,3-Dichloropropane	0.000		0	N.D.	
57) 2-HEXANONE	0.000		0	N.D.	
58) CHLORODIBROMOMETHANE	0.000		0	N.D.	
59) 1,2-DIBROMOETHANE	0.000		0	N.D.	
60) CHLOROBENZENE	0.000		0	N.D.	
61) 1,1,1,2-TETRACHLOROETHANE	0.000		0	N.D.	
62) ETHYLBENZENE	0.000		0	N.D.	
63) M&P-XYLENE	6.627	106	886	N.D.	
64) O-XYLENE	0.000		0	N.D.	
65) STYRENE	0.000		0	N.D.	
66) Bromoform	0.000		0	N.D.	
67) Isopropylbenzene	0.000		0	N.D.	
69) Bromobenzene	7.460	77	595	N.D.	
70) 1,1,2,2-TETRACHLOROETHANE	0.000		0	N.D.	
71) 1,2,3-TRICHLOROPROPANE	0.000		0	N.D.	
72) TRANS-1,4-DICHLORO-2-B...	0.000		0	N.D.	
73) n-Propylbenzene	7.454	91	2258	N.D.	
74) 4-ETHYLTOLUENE	7.531	105	1325	N.D.	
75) 2-Chlorotoluene	0.000		0	N.D.	
76) 4-Chlorotoluene	7.717	91	1029	N.D.	
77) 1,3,5-Trimethylbenzene	7.579	105	821	N.D.	
78) tert-Butylbenzene	0.000		0	N.D.	
79) 1,2,4-Trimethylbenzene	7.888	105	1508	N.D.	
80) sec-Butylbenzene	7.968	105	576	N.D.	
81) 1,3-DICHLOROBENZENE	0.000		0	N.D.	
82) p-Isopropyltoluene	0.000		0	N.D.	
83) DICYCLOPENTADIENE	0.000		0	N.D.	
85) 1,4-DICHLOROBENZENE	8.232	146	1115	N.D.	
86) 1,2,3-TRIMETHYLBENZENE	8.229	105	1071	N.D.	
87) 1,2-DICHLOROBENZENE	0.000		0	N.D.	
88) n-Butylbenzene	8.402	91	1636	N.D.	
89) 1,2-Dibromo-3-chloropr...	0.000		0	N.D.	
90) 1,2,4-Trichlorobenzene	9.756	180	722	N.D.	
91) HEXACHLORO-1,3-BUTADIENE	0.000		0	N.D.	
92) Naphthalene	10.032	128	3639	N.D.	
93) 1,2,3-Trichlorobenzene	10.184	180	654	N.D.	
94) 1-Methylnaphthalene	10.901	142	3828	0.3243047 ppb	90
95) 2-Methylnaphthalene	11.039	142	2641	N.D.	

Quantitation Report (QT Reviewed)

Data Path : C:\MSDchem\1\data\112314a\
Data File : 1123 01a.D
Acq On : 23 Nov 2014 11:39 pm
Operator : 644
Sample : INSTBLK VMS
Misc : water IS/SURR14K01013
ALS Vial : 1 Sample Multiplier: 1
InstName : VOCMS20

Quant Time: Nov 24 14:40:09 2014
Quant Method : C:\MSDchem\1\methods\V820K23N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS20
QLast Update : Mon Nov 24 14:32:41 2014
Response via : Initial Calibration

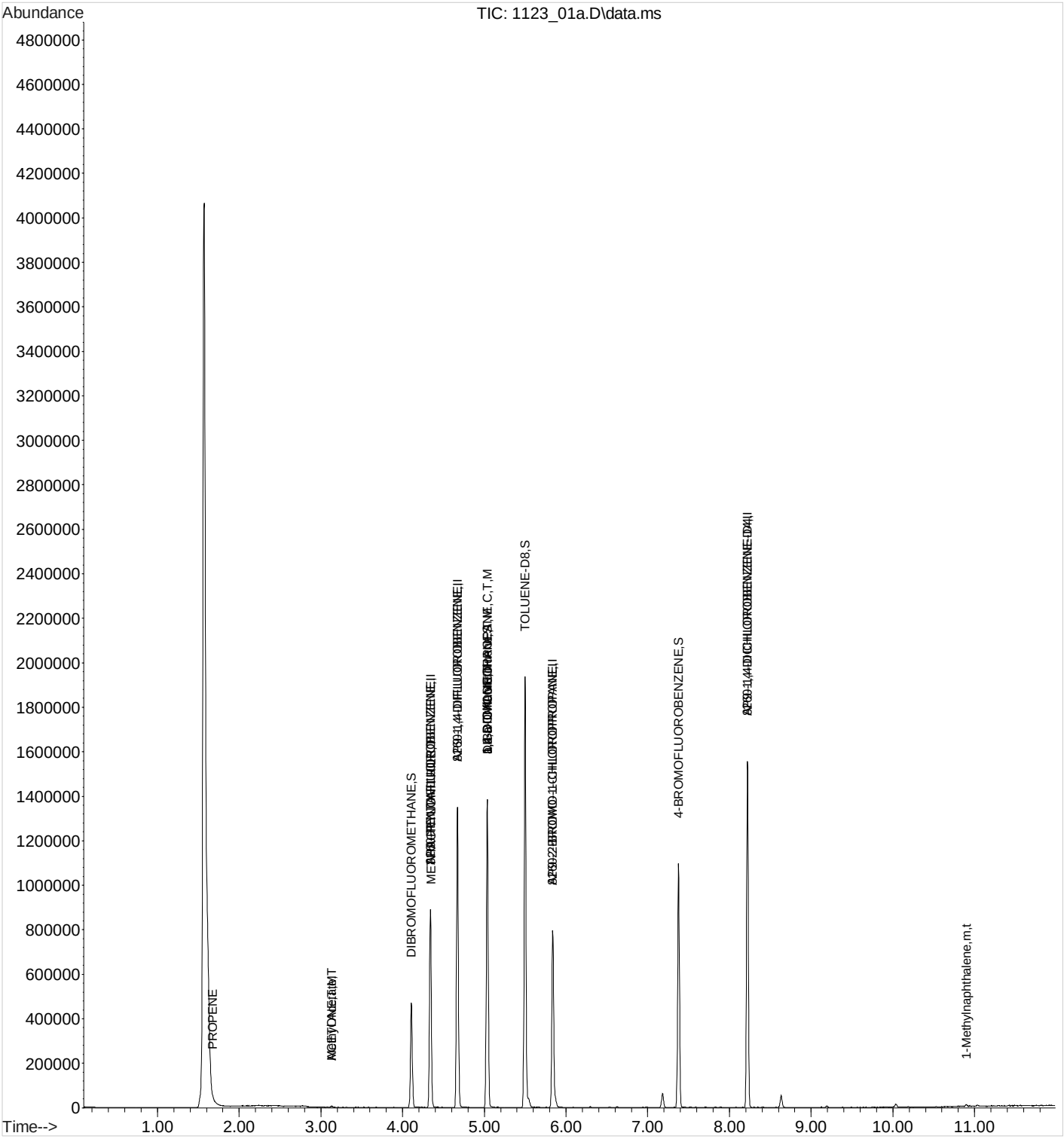
	Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
97)	ETHANOL	0.000		0	N.D.	
98)	Bromoethane	0.000		0	N.D.	
99)	2-PROPANOL	0.000		0	N.D.	
100)	Methyl Acetate	3.129	43	5876	1.0261246 ppb #	56
101)	ACETONITRILE	0.000		0	N.D.	
102)	ALLYL CHLORIDE	0.000		0	N.D.	
103)	tert-BUTYL ALCOHOL	0.000		0	N.D.	
104)	chloroprene	0.000		0	N.D.	
105)	ETHYL TERT-BUTYL ETHER	0.000		0	N.D.	
106)	PROPIONITRILE	0.000		0	N.D.	
107)	Ethyl Acetate	0.000		0	N.D.	
108)	METHACRYLONITRILE	4.345	67	1425	0.4309819 ppb #	1
109)	Cyclohexane	0.000		0	N.D.	
110)	tert-butyl formate	0.000		0	N.D.	
111)	ISOBUTANOL	0.000		0	N.D.	
112)	t-Amyl Alcohol	0.000		0	N.D.	
113)	TERT-AMYL METHYL ETHER	0.000		0	N.D.	
115)	N-BUTANOL	0.000		0	N.D.	
116)	Methyl Cyclohexane	4.666	83	12434	Below Cal #	37
117)	2-nitropropane	0.000		0	N.D.	
118)	METHYL METHACRYLATE	0.000		0	N.D.	
119)	1,4-DIOXANE	5.036	88	4928	65.0645221 ppb #	31
120)	n-octane	0.000		0	N.D.	
121)	3,3-DIMETHYL-1-BUTANOL	0.000		0	N.D.	
123)	ETHYL METHACRYLATE	0.000		0	N.D.	
124)	CIS-1,4-DICHLORO-2-BUTENE	0.000		0	N.D.	
125)	Cyclohexanone	0.000		0	N.D.	
126)	PENTACHLOROETHANE	0.000		0	N.D.	
127)	Hexachloroethane	8.351	117	581	N.D.	

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\MSDchem\1\data\112314a\
Data File : 1123 01a.D
Acq On : 23 Nov 2014 11:39 pm
Operator : 644
Sample : INSTBLK VMS
Misc : water IS/SURR14K01013
ALS Vial : 1 Sample Multiplier: 1
InstName : VOCMS20

Quant Time: Nov 24 14:40:09 2014
Quant Method : C:\MSDchem\1\methods\V820K23N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS20
QLast Update : Mon Nov 24 14:32:41 2014
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\MSDchem\1\data\112314a\
Data File : 1123 01a.D
Acq On : 23 Nov 2014 11:39 pm
Operator : 644
Sample : INSTBLK VMS
Misc : water IS/SURR14K01013
ALS Vial : 1 Sample Multiplier: 1
InstName : VOCMS20

Quant Time: Nov 24 14:40:09 2014
Quant Method : C:\MSDchem\1\methods\V820K23N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS20
QLast Update : Mon Nov 24 14:32:41 2014
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 8260-PENTAFLUOROBENZENE	4.341	168	430370	40.0000000 ppb	0.00
41) 8260-1,4-DIFLUOROBENZENE	4.669	114	846361	40.0000000 ppb	0.00
53) 8260-2-BROMO-1-CHLOROP...	5.836	79	138064	40.0000000 ppb	0.00
84) 8260-1,4-DICHLOROBENZE...	8.219	152	339952	40.0000000 ppb	0.00
96) AP9-PENTAFLUOROBENZENE	4.341	168	430370	40.0000000 ppb	0.00
114) AP9-1,4-DIFLUOROBENZENE	4.669	114	846361	40.0000000 ppb	0.00
122) AP9-2-BROMO-1-CHLOROPR...	5.836	79	138064	40.0000000 ppb	# 0.00
128) AP9-1,4-DICHLOROBENZEN...	8.219	152	339952	40.0000000 ppb	0.00
System Monitoring Compounds					
33) DIBROMOFLUOROMETHANE	4.107	111	247093	41.8797768 ppb	0.00
Spiked Amount 40.000	Range 78 - 121		Recovery = 104.70%		
46) a,a,a-Trifluorotoluene	5.036	146	452315	42.2010241 ppb	0.00
Spiked Amount 40.000	Range 85 - 114		Recovery = 105.50%		
50) TOLUENE-D8	5.499	98	1079172	40.2353809 ppb	0.00
Spiked Amount 40.000	Range 89 - 111		Recovery = 100.59%		
68) 4-BROMOFLUOROBENZENE	7.377	95	360471	39.8156978 ppb	0.00
Spiked Amount 40.000	Range 71 - 126		Recovery = 99.54%		
Target Compounds					Qvalue
2) TPH (GC/MS) LOW FRACTION	4.096	TIC -7314779		No Calib	
3) PROPENE	1.673	41	1220	0.6134038 ppb #	17
4) DICHLORODIFLUOROMETHANE	0.000		0	N.D.	
5) CHLOROMETHANE	0.000		0	N.D.	
6) VINYL CHLORIDE	0.000		0	N.D.	
7) 1,3-BUTADIENE	0.000		0	N.D.	
8) BROMOMETHANE	0.000		0	N.D.	
9) CHLOROETHANE	0.000		0	N.D.	
10) TRICHLOROFLUOROMETHANE	0.000		0	N.D.	
11) DICHLOROFLUOROMETHANE	0.000		0	N.D.	
12) ETHYL ETHER	0.000		0	N.D.	
13) ACROLEIN	0.000		0	N.D.	
14) 1,1-DICHLOROETHENE	0.000		0	N.D.	
15) 1,1,2-TRICHLOROTRIFLUO...	0.000		0	N.D.	
16) ACETONE	3.129	43	5876	2.6690562 ppb	93
17) IODOMETHANE	0.000		0	N.D.	
18) CARBON DISULFIDE	2.776	76	1365	N.D.	
19) METHYLENE CHLORIDE	0.000		0	N.D.	
20) ACRYLONITRILE	0.000		0	N.D.	
21) n-Hexane	0.000		0	N.D.	
22) TRANS-1,2-DICHLOROETHENE	0.000		0	N.D.	
23) METHYL TERT-BUTYL ETHER	0.000		0	N.D.	
24) 1,1-DICHLOROETHANE	0.000		0	N.D.	
25) VINYL ACETATE	3.676	43	506	N.D.	
26) DI-ISOPROPYL ETHER	0.000		0	N.D.	
27) 2,2-Dichloropropane	0.000		0	N.D.	
28) CIS-1,2-DICHLOROETHENE	0.000		0	N.D.	
29) 2-BUTANONE (MEK)	0.000		0	N.D.	
30) BROMOCHLOROMETHANE	0.000		0	N.D.	
31) TETRAHYDROFURAN	0.000		0	N.D.	
32) CHLOROFORM	0.000		0	N.D.	
34) 1,1,1-TRICHLOROETHANE	0.000		0	N.D.	
35) CARBON TETRACHLORIDE	0.000		0	N.D.	

Quantitation Report (QT Reviewed)

Data Path : C:\MSDchem\1\data\112314a\
Data File : 1123 01a.D
Acq On : 23 Nov 2014 11:39 pm
Operator : 644
Sample : INSTBLK VMS
Misc : water IS/SURR14K01013
ALS Vial : 1 Sample Multiplier: 1
InstName : VOCMS20

Quant Time: Nov 24 14:40:09 2014
Quant Method : C:\MSDchem\1\methods\V820K23N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS20
QLast Update : Mon Nov 24 14:32:41 2014
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
36) 1,1-Dichloropropene	0.000		0	N.D.	
37) 2,2,4-TRIMETHYLPENTANE	4.229	57	815	N.D.	
38) HEPTANE	0.000		0	N.D.	
39) BENZENE	4.341	78	1272	N.D.	
40) 1,2-DICHLOROETHANE	0.000		0	N.D.	
42) TRICHLOROETHENE	0.000		0	N.D.	
43) 1,2-DICHLOROPROPANE	5.036	62	8935	1.2522051 ppb #	16
44) DIBROMOMETHANE	5.036	93	1873	0.4047241 ppb #	1
45) BROMODICHLOROMETHANE	0.000		0	N.D.	
47) 2-CHLOROETHYL VINYL ETHER	0.000		0	N.D.	
48) CIS-1,3-DICHLOROPROPENE	0.000		0	N.D.	
49) 4-METHYL-2-PENTANONE (...	0.000		0	N.D.	
51) TOLUENE	5.534	91	3833	N.D.	
52) TRANS-1,3-DICHLOROPROPENE	0.000		0	N.D.	
54) 1,1,2-TRICHLOROETHANE	0.000		0	N.D.	
55) TETRACHLOROETHENE	0.000		0	N.D.	
56) 1,3-Dichloropropane	0.000		0	N.D.	
57) 2-HEXANONE	0.000		0	N.D.	
58) CHLORODIBROMOMETHANE	0.000		0	N.D.	
59) 1,2-DIBROMOETHANE	0.000		0	N.D.	
60) CHLOROBENZENE	0.000		0	N.D.	
61) 1,1,1,2-TETRACHLOROETHANE	0.000		0	N.D.	
62) ETHYLBENZENE	0.000		0	N.D.	
63) M&P-XYLENE	6.627	106	886	N.D.	
64) O-XYLENE	0.000		0	N.D.	
65) STYRENE	0.000		0	N.D.	
66) Bromoform	0.000		0	N.D.	
67) Isopropylbenzene	0.000		0	N.D.	
69) Bromobenzene	7.460	77	595	N.D.	
70) 1,1,2,2-TETRACHLOROETHANE	0.000		0	N.D.	
71) 1,2,3-TRICHLOROPROPANE	0.000		0	N.D.	
72) TRANS-1,4-DICHLORO-2-B...	0.000		0	N.D.	
73) n-Propylbenzene	7.454	91	2258	N.D.	
74) 4-ETHYLTOLUENE	7.531	105	1325	N.D.	
75) 2-Chlorotoluene	0.000		0	N.D.	
76) 4-Chlorotoluene	7.717	91	1029	N.D.	
77) 1,3,5-Trimethylbenzene	7.579	105	821	N.D.	
78) tert-Butylbenzene	0.000		0	N.D.	
79) 1,2,4-Trimethylbenzene	7.888	105	1508	N.D.	
80) sec-Butylbenzene	7.968	105	576	N.D.	
81) 1,3-DICHLOROBENZENE	0.000		0	N.D.	
82) p-Isopropyltoluene	0.000		0	N.D.	
83) DICYCLOPENTADIENE	0.000		0	N.D.	
85) 1,4-DICHLOROBENZENE	8.232	146	1115	N.D.	
86) 1,2,3-TRIMETHYLBENZENE	8.229	105	1071	N.D.	
87) 1,2-DICHLOROBENZENE	0.000		0	N.D.	
88) n-Butylbenzene	8.402	91	1636	N.D.	
89) 1,2-Dibromo-3-chloropr...	0.000		0	N.D.	
90) 1,2,4-Trichlorobenzene	9.756	180	722	N.D.	
91) HEXACHLORO-1,3-BUTADIENE	0.000		0	N.D.	
92) Naphthalene	10.032	128	3639	N.D.	
93) 1,2,3-Trichlorobenzene	10.184	180	654	N.D.	
94) 1-Methylnaphthalene	10.901	142	3828	0.3243047 ppb	90
95) 2-Methylnaphthalene	11.039	142	2641	N.D.	

Quantitation Report (QT Reviewed)

Data Path : C:\MSDchem\1\data\112314a\
Data File : 1123 01a.D
Acq On : 23 Nov 2014 11:39 pm
Operator : 644
Sample : INSTBLK VMS
Misc : water IS/SURR14K01013
ALS Vial : 1 Sample Multiplier: 1
InstName : VOCMS20

Quant Time: Nov 24 14:40:09 2014
Quant Method : C:\MSDchem\1\methods\V820K23N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS20
QLast Update : Mon Nov 24 14:32:41 2014
Response via : Initial Calibration

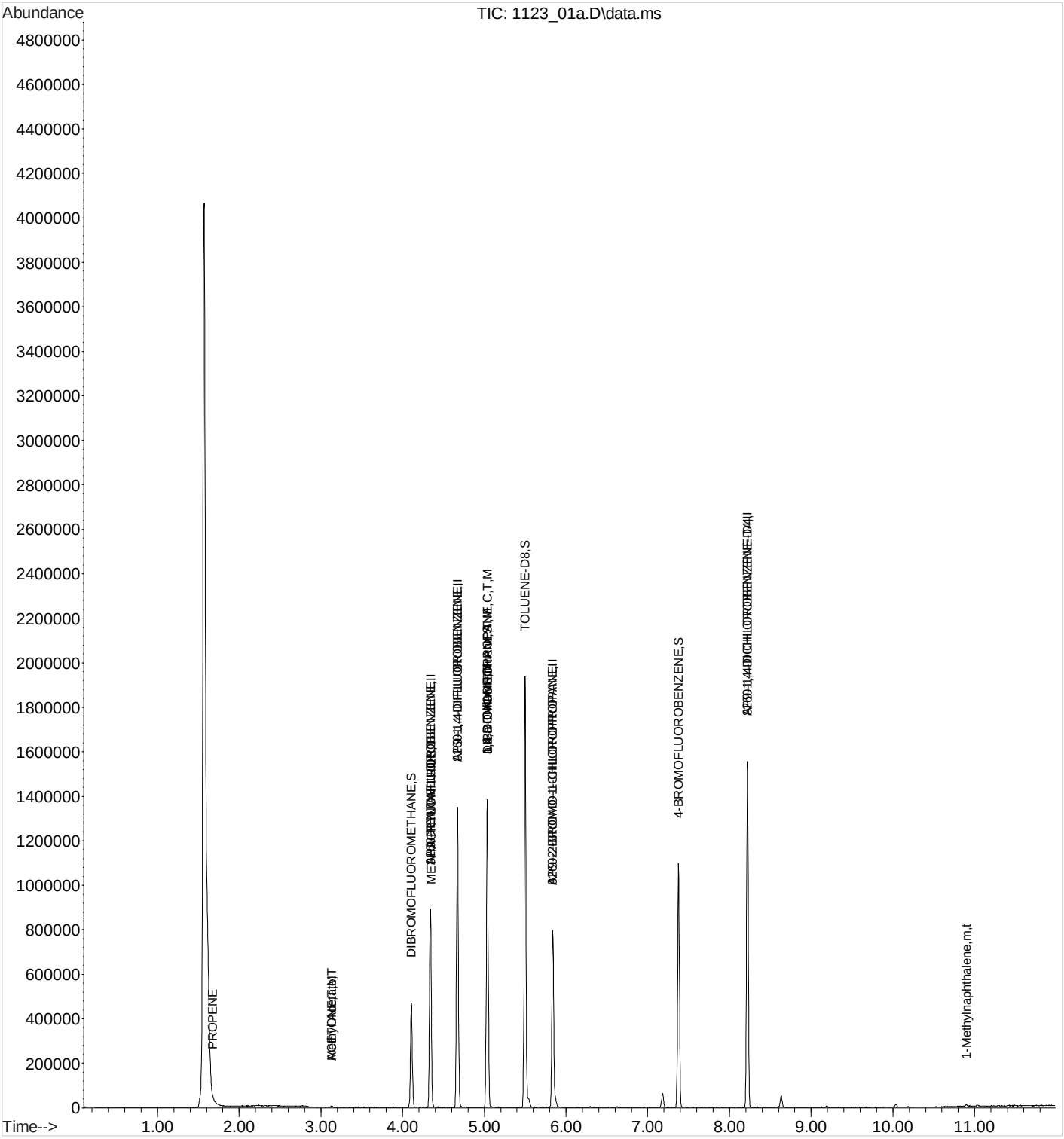
	Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
97)	ETHANOL	0.000		0	N.D.	
98)	Bromoethane	0.000		0	N.D.	
99)	2-PROPANOL	0.000		0	N.D.	
100)	Methyl Acetate	3.129	43	5876	1.0261246 ppb #	56
101)	ACETONITRILE	0.000		0	N.D.	
102)	ALLYL CHLORIDE	0.000		0	N.D.	
103)	tert-BUTYL ALCOHOL	0.000		0	N.D.	
104)	chloroprene	0.000		0	N.D.	
105)	ETHYL TERT-BUTYL ETHER	0.000		0	N.D.	
106)	PROPIONITRILE	0.000		0	N.D.	
107)	Ethyl Acetate	0.000		0	N.D.	
108)	METHACRYLONITRILE	4.345	67	1425	0.4309819 ppb #	1
109)	Cyclohexane	0.000		0	N.D.	
110)	tert-butyl formate	0.000		0	N.D.	
111)	ISOBUTANOL	0.000		0	N.D.	
112)	t-Amyl Alcohol	0.000		0	N.D.	
113)	TERT-AMYL METHYL ETHER	0.000		0	N.D.	
115)	N-BUTANOL	0.000		0	N.D.	
116)	Methyl Cyclohexane	4.666	83	12434	Below Cal #	37
117)	2-nitropropane	0.000		0	N.D.	
118)	METHYL METHACRYLATE	0.000		0	N.D.	
119)	1,4-DIOXANE	5.036	88	4928	65.0645221 ppb #	31
120)	n-octane	0.000		0	N.D.	
121)	3,3-DIMETHYL-1-BUTANOL	0.000		0	N.D.	
123)	ETHYL METHACRYLATE	0.000		0	N.D.	
124)	CIS-1,4-DICHLORO-2-BUTENE	0.000		0	N.D.	
125)	Cyclohexanone	0.000		0	N.D.	
126)	PENTACHLOROETHANE	0.000		0	N.D.	
127)	Hexachloroethane	8.351	117	581	N.D.	

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\MSDchem\1\data\112314a\
Data File : 1123 01a.D
Acq On : 23 Nov 2014 11:39 pm
Operator : 644
Sample : INSTBLK VMS
Misc : water IS/SURR14K01013
ALS Vial : 1 Sample Multiplier: 1
InstName : VOCMS20

Quant Time: Nov 24 14:40:09 2014
Quant Method : C:\MSDchem\1\methods\V820K23N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS20
QLast Update : Mon Nov 24 14:32:41 2014
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\MSDchem\1\data\112314a\
Data File : 1123 14a.D
Acq On : 24 Nov 2014 3:37 am
Operator : 644
Sample : INSTBLK VMS
Misc : water IS/SURR14K01013
ALS Vial : 14 Sample Multiplier: 1
InstName : VOCMS20

Quant Time: Nov 24 14:40:33 2014
Quant Method : C:\MSDchem\1\methods\V820K23N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS20
QLast Update : Mon Nov 24 14:32:41 2014
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 8260-PENTAFLUOROBENZENE	4.342	168	472279	40.0000000	ppb	0.00
41) 8260-1,4-DIFLUOROBENZENE	4.673	114	898755	40.0000000	ppb	0.00
53) 8260-2-BROMO-1-CHLOROP...	5.837	79	149985	40.0000000	ppb	0.00
84) 8260-1,4-DICHLOROBENZE...	8.219	152	368484	40.0000000	ppb	0.00
96) AP9-PENTAFLUOROBENZENE	4.342	168	472279	40.0000000	ppb	0.00
114) AP9-1,4-DIFLUOROBENZENE	4.673	114	898755	40.0000000	ppb	0.00
122) AP9-2-BROMO-1-CHLOROPR...	5.837	79	149985	40.0000000	ppb	# 0.00
128) AP9-1,4-DICHLOROBENZEN...	8.219	152	368484	40.0000000	ppb	0.00
System Monitoring Compounds						
33) DIBROMOFLUOROMETHANE	4.107	111	255868	39.5187543	ppb	0.00
Spiked Amount 40.000	Range 78 - 121		Recovery = 98.80%			
46) a,a,a-Trifluorotoluene	5.036	146	476035	41.8249286	ppb	0.00
Spiked Amount 40.000	Range 85 - 114		Recovery = 104.56%			
50) TOLUENE-D8	5.499	98	1157458	40.6384386	ppb	0.00
Spiked Amount 40.000	Range 89 - 111		Recovery = 101.60%			
68) 4-BROMOFLUOROBENZENE	7.377	95	399890	40.6590445	ppb	0.00
Spiked Amount 40.000	Range 71 - 126		Recovery = 101.65%			
Target Compounds						Qvalue
2) TPH (GC/MS) LOW FRACTION	4.096	TIC	-7813257	No Calib		
3) PROPENE	1.663	41	1559	0.7142925	ppb #	82
4) DICHLORODIFLUOROMETHANE	1.718	85	2248	N.D.		
5) CHLOROMETHANE	1.879	50	4248	0.3260435	ppb #	92
6) VINYL CHLORIDE	1.949	62	3384	0.3097549	ppb #	92
7) 1,3-BUTADIENE	1.969	39	4363	0.5086774	ppb #	68
8) BROMOMETHANE	2.213	94	2674	0.3898660	ppb #	79
9) CHLOROETHANE	0.000		0	N.D.		
10) TRICHLOROFLUOROMETHANE	2.403	101	2238	N.D.		
11) DICHLOROFLUOROMETHANE	2.441	67	3716	N.D.		
12) ETHYL ETHER	2.596	59	1141	N.D.		
13) ACROLEIN	2.956	56	3529	2.6596990	ppb	99
14) 1,1-DICHLOROETHENE	2.740	61	3664	N.D.		
15) 1,1,2-TRICHLOROTRIFLUO...	2.760	101	1205	N.D.		
16) ACETONE	3.126	43	15777	6.5304591	ppb	93
17) IODOMETHANE	2.843	142	14496	1.1955992	ppb	95
18) CARBON DISULFIDE	2.776	76	13658	0.4591843	ppb #	39
19) METHYLENE CHLORIDE	3.104	84	2605	N.D.		
20) ACRYLONITRILE	3.589	53	14624	4.5105246	ppb	96
21) n-Hexane	3.216	56	2937	0.3201187	ppb #	38
22) TRANS-1,2-DICHLOROETHENE	3.190	96	3089	0.3394933	ppb	84
23) METHYL TERT-BUTYL ETHER	3.242	73	3293	N.D.		
24) 1,1-DICHLOROETHANE	3.554	63	3249	N.D.		
25) VINYL ACETATE	3.670	43	20256	1.4393647	ppb	99
26) DI-ISOPROPYL ETHER	3.444	45	5896	N.D.		
27) 2,2-Dichloropropane	3.920	77	1869	N.D.		
28) CIS-1,2-DICHLOROETHENE	3.859	96	3019	0.3022686	ppb	92
29) 2-BUTANONE (MEK)	4.174	72	3176	3.2868562	ppb #	60
30) BROMOCHLOROMETHANE	3.981	130	1580	N.D.		
31) TETRAHYDROFURAN	4.100	42	1865	0.6431002	ppb #	78
32) CHLOROFORM	4.004	83	3330	N.D.		
34) 1,1,1-TRICHLOROETHANE	4.133	97	2585	N.D.		
35) CARBON TETRACHLORIDE	4.091	119	2221	N.D.		

Quantitation Report (QT Reviewed)

Data Path : C:\MSDchem\1\data\112314a\
Data File : 1123 14a.D
Acq On : 24 Nov 2014 3:37 am
Operator : 644
Sample : INSTBLK VMS
Misc : water IS/SURR14K01013
ALS Vial : 14 Sample Multiplier: 1
InstName : VOCMS20

Quant Time: Nov 24 14:40:33 2014
Quant Method : C:\MSDchem\1\methods\V820K23N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS20
QLast Update : Mon Nov 24 14:32:41 2014
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units		Dev(Min)
36) 1,1-Dichloropropene	4.197	75	3361	N.D.		
37) 2,2,4-TRIMETHYLPENTANE	4.229	57	7784	N.D.		
38) HEPTANE	4.271	43	5423	0.3257916 ppb	#	88
39) BENZENE	4.342	78	11326	N.D.		
40) 1,2-DICHLOROETHANE	4.461	62	4198	0.3644617 ppb	#	72
42) TRICHLOROETHENE	4.666	130	3151	0.3780381 ppb		95
43) 1,2-DICHLOROPROPANE	4.988	62	1642	N.D.		
44) DIBROMOMETHANE	4.930	93	2024	0.4118567 ppb		98
45) BROMODICHLOROMETHANE	5.007	83	3053	N.D.		
47) 2-CHLOROETHYL VINYL ETHER	5.322	63	1439	0.4076628 ppb	#	79
48) CIS-1,3-DICHLOROPROPENE	5.387	75	6178	0.3968406 ppb	#	95
49) 4-METHYL-2-PENTANONE (...	5.753	58	13937	4.4368405 ppb		88
51) TOLUENE	5.531	91	18758	0.4235377 ppb		96
52) TRANS-1,3-DICHLOROPROPENE	5.785	110	1560	0.4985538 ppb	#	79
54) 1,1,2-TRICHLOROETHANE	5.898	97	2357	0.3164963 ppb		90
55) TETRACHLOROETHENE	5.782	164	2008	0.3577346 ppb		90
56) 1,3-Dichloropropane	6.081	76	6152	0.4146840 ppb		91
57) 2-HEXANONE	6.293	58	20872	7.2137784 ppb		97
58) CHLORODIBROMOMETHANE	6.023	129	2294	0.3177133 ppb	#	84
59) 1,2-DIBROMOETHANE	6.203	107	3896	0.5629791 ppb		98
60) CHLOROBENZENE	6.538	112	13306	0.5425958 ppb		95
61) 1,1,1,2-TETRACHLOROETHANE	6.570	133	1569	N.D.		
62) ETHYLBENZENE	6.531	106	5481	0.4338111 ppb		93
63) M&P-XYLENE	6.624	106	16309	1.0136377 ppb		86
64) O-XYLENE	6.936	106	6715	0.4408970 ppb		90
65) STYRENE	6.972	104	15983	0.6403078 ppb		99
66) Bromoform	7.020	173	1850	0.4793861 ppb	#	77
67) Isopropylbenzene	7.149	105	21056	0.5490971 ppb	#	95
69) Bromobenzene	7.467	77	19047	0.9144425 ppb		94
70) 1,1,2,2-TETRACHLOROETHANE	7.505	83	4844	0.5060852 ppb	#	93
71) 1,2,3-TRICHLOROPROPANE	7.628	110	1792	0.6703217 ppb	#	84
72) TRANS-1,4-DICHLORO-2-B...	7.644	53	2336	0.8326809 ppb	#	88
73) n-Propylbenzene	7.451	91	51333	1.0005135 ppb		98
74) 4-ETHYLTOLUENE	7.528	105	42640	1.0439701 ppb		96
75) 2-Chlorotoluene	7.589	126	6495	0.6793811 ppb		93
76) 4-Chlorotoluene	7.711	91	36262	1.1373600 ppb		98
77) 1,3,5-Trimethylbenzene	7.589	105	30336	0.8839724 ppb		97
78) tert-Butylbenzene	7.833	119	26182	0.9771488 ppb		99
79) 1,2,4-Trimethylbenzene	7.888	105	42141	1.2200249 ppb		100
80) sec-Butylbenzene	7.968	105	45997	1.0611323 ppb		99
81) 1,3-DICHLOROBENZENE	8.168	146	25718	1.4195532 ppb		98
82) p-Isopropyltoluene	8.071	119	46870	1.3683441 ppb		99
83) DICYCLOPENTADIENE	8.078	66	24242	0.5514530 ppb		95
85) 1,4-DICHLOROBENZENE	8.232	146	34439	1.8178428 ppb	#	1
86) 1,2,3-TRIMETHYLBENZENE	8.232	105	49894	1.3347491 ppb		98
87) 1,2-DICHLOROBENZENE	8.566	146	30903	1.8375423 ppb		95
88) n-Butylbenzene	8.402	91	120811	3.3996234 ppb		98
89) 1,2-Dibromo-3-chloropr...	9.210	157	2252	1.6416342 ppb	#	73
90) 1,2,4-Trichlorobenzene	9.753	180	59880	6.1103496 ppb		96
91) HEXACHLORO-1,3-BUTADIENE	9.708	225	14816	2.9069982 ppb		99
92) Naphthalene	10.033	128	171948	6.9178168 ppb		99
93) 1,2,3-Trichlorobenzene	10.184	180	77593	8.6807983 ppb		99
94) 1-Methylnaphthalene	10.898	142	271447	21.2160902 ppb		99
95) 2-Methylnaphthalene	11.033	142	247490	21.8420319 ppb		96

Quantitation Report (QT Reviewed)

Data Path : C:\MSDchem\1\data\112314a\
Data File : 1123 14a.D
Acq On : 24 Nov 2014 3:37 am
Operator : 644
Sample : INSTBLK VMS
Misc : water IS/SURR14K01013
ALS Vial : 14 Sample Multiplier: 1
InstName : VOCMS20

Quant Time: Nov 24 14:40:33 2014
Quant Method : C:\MSDchem\1\methods\V820K23N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS20
QLast Update : Mon Nov 24 14:32:41 2014
Response via : Initial Calibration

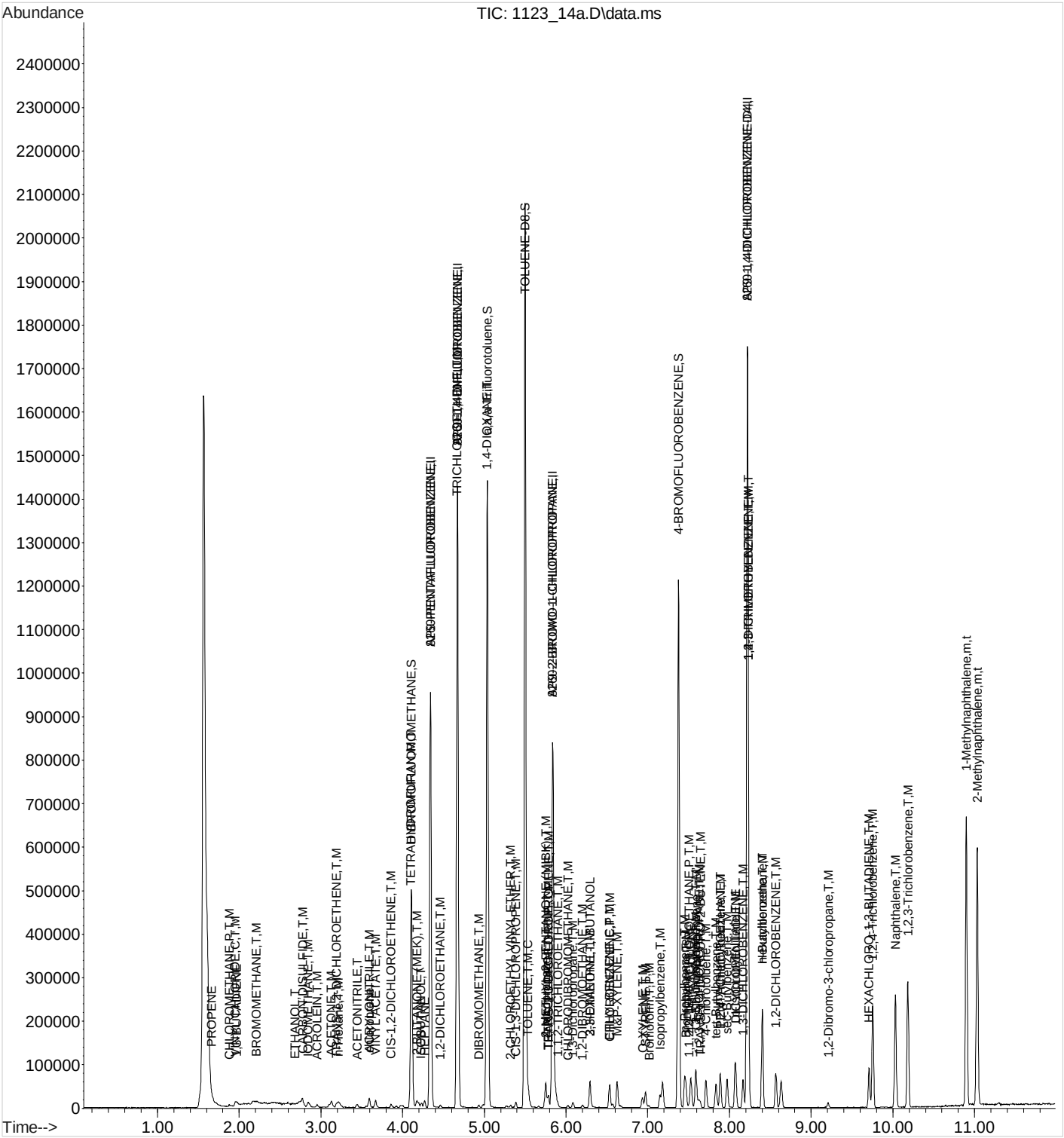
	Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
97)	ETHANOL	2.682	45	651	7.2885172 ppb #	34
98)	Bromoethane	0.000		0	N.D.	
99)	2-PROPANOL	0.000		0	N.D.	
100)	Methyl Acetate	3.187	43	1097	N.D.	
101)	ACETONITRILE	3.441	41	1194	0.9593286 ppb #	35
102)	ALLYL CHLORIDE	0.000		0	N.D.	
103)	tert-BUTYL ALCOHOL	0.000		0	N.D.	
104)	chloroprene	3.589	53	14624	1.8870322 ppb #	25
105)	ETHYL TERT-BUTYL ETHER	0.000		0	N.D.	
106)	PROPIONITRILE	0.000		0	N.D.	
107)	Ethyl Acetate	4.100	43	607	N.D.	
108)	METHACRYLONITRILE	4.332	67	882	N.D.	
109)	Cyclohexane	0.000		0	N.D.	
110)	tert-butyl formate	0.000		0	N.D.	
111)	ISOBUTANOL	4.226	41	2058	4.5429809 ppb #	1
112)	t-Amyl Alcohol	0.000		0	N.D.	
113)	TERT-AMYL METHYL ETHER	4.345	73	704	N.D.	
115)	N-BUTANOL	0.000		0	N.D.	
116)	Methyl Cyclohexane	4.670	83	11965	Below Cal #	37
117)	2-nitropropane	5.753	43	39502	19.8169953 ppb #	38
118)	METHYL METHACRYLATE	4.985	41	1664	N.D.	
119)	1,4-DIOXANE	5.033	88	5753	71.5290147 ppb #	34
120)	n-octane	0.000		0	N.D.	
121)	3,3-DIMETHYL-1-BUTANOL	6.293	57	6730	10.8892558 ppb #	43
123)	ETHYL METHACRYLATE	0.000		0	N.D.	
124)	CIS-1,4-DICHLORO-2-BUTENE	7.538	53	578	N.D.	
125)	Cyclohexanone	0.000		0	N.D.	
126)	PENTACHLOROETHANE	7.888	117	1590	0.3037933 ppb #	16
127)	Hexachloroethane	8.402	117	2818	0.4369644 ppb #	11

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\MSDchem\1\data\112314a\
Data File : 1123 14a.D
Acq On : 24 Nov 2014 3:37 am
Operator : 644
Sample : INSTBLK VMS
Misc : water IS/SURR14K01013
ALS Vial : 14 Sample Multiplier: 1
InstName : VOCMS20

Quant Time: Nov 24 14:40:33 2014
Quant Method : C:\MSDchem\1\methods\V820K23N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS20
QLast Update : Mon Nov 24 14:32:41 2014
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\MSDchem\1\data\112314a\
Data File : 1123 14a.D
Acq On : 24 Nov 2014 3:37 am
Operator : 644
Sample : INSTBLK VMS
Misc : water IS/SURR14K01013
ALS Vial : 14 Sample Multiplier: 1
InstName : VOCMS20

Quant Time: Nov 24 14:40:33 2014
Quant Method : C:\MSDchem\1\methods\V820K23N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS20
QLast Update : Mon Nov 24 14:32:41 2014
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 8260-PENTAFLUOROBENZENE	4.342	168	472279	40.0000000 ppb	0.00
41) 8260-1,4-DIFLUOROBENZENE	4.673	114	898755	40.0000000 ppb	0.00
53) 8260-2-BROMO-1-CHLOROP...	5.837	79	149985	40.0000000 ppb	0.00
84) 8260-1,4-DICHLOROBENZE...	8.219	152	368484	40.0000000 ppb	0.00
96) AP9-PENTAFLUOROBENZENE	4.342	168	472279	40.0000000 ppb	0.00
114) AP9-1,4-DIFLUOROBENZENE	4.673	114	898755	40.0000000 ppb	0.00
122) AP9-2-BROMO-1-CHLOROPR...	5.837	79	149985	40.0000000 ppb	# 0.00
128) AP9-1,4-DICHLOROBENZEN...	8.219	152	368484	40.0000000 ppb	0.00
System Monitoring Compounds					
33) DIBROMOFLUOROMETHANE	4.107	111	255868	39.5187543 ppb	0.00
Spiked Amount 40.000	Range 78 - 121		Recovery = 98.80%		
46) a,a,a-Trifluorotoluene	5.036	146	476035	41.8249286 ppb	0.00
Spiked Amount 40.000	Range 85 - 114		Recovery = 104.56%		
50) TOLUENE-D8	5.499	98	1157458	40.6384386 ppb	0.00
Spiked Amount 40.000	Range 89 - 111		Recovery = 101.60%		
68) 4-BROMOFLUOROBENZENE	7.377	95	399890	40.6590445 ppb	0.00
Spiked Amount 40.000	Range 71 - 126		Recovery = 101.65%		
Target Compounds					Qvalue
2) TPH (GC/MS) LOW FRACTION	4.096	TIC -7813257		No Calib	
3) PROPENE	1.663	41	1559	0.7142925 ppb #	82
4) DICHLORODIFLUOROMETHANE	1.718	85	2248	N.D.	
5) CHLOROMETHANE	1.879	50	4248	0.3260435 ppb #	92
6) VINYL CHLORIDE	1.949	62	3384	0.3097549 ppb #	92
7) 1,3-BUTADIENE	1.969	39	4363	0.5086774 ppb #	68
8) BROMOMETHANE	2.213	94	2674	0.3898660 ppb #	79
9) CHLOROETHANE	0.000		0	N.D.	
10) TRICHLOROFLUOROMETHANE	2.403	101	2238	N.D.	
11) DICHLOROFLUOROMETHANE	2.441	67	3716	N.D.	
12) ETHYL ETHER	2.596	59	1141	N.D.	
13) ACROLEIN	2.956	56	3529	2.6596990 ppb	99
14) 1,1-DICHLOROETHENE	2.740	61	3664	N.D.	
15) 1,1,2-TRICHLOROTRIFLUO...	2.760	101	1205	N.D.	
16) ACETONE	3.126	43	15777	6.5304591 ppb	93
17) IODOMETHANE	2.843	142	14496	1.1955992 ppb	95
18) CARBON DISULFIDE	2.776	76	13658	0.4591843 ppb #	39
19) METHYLENE CHLORIDE	3.104	84	2605	N.D.	
20) ACRYLONITRILE	3.589	53	14624	4.5105246 ppb	96
21) n-Hexane	3.216	56	2937	0.3201187 ppb #	38
22) TRANS-1,2-DICHLOROETHENE	3.190	96	3089	0.3394933 ppb	84
23) METHYL TERT-BUTYL ETHER	3.242	73	3293	N.D.	
24) 1,1-DICHLOROETHANE	3.554	63	3249	N.D.	
25) VINYL ACETATE	3.670	43	20256	1.4393647 ppb	99
26) DI-ISOPROPYL ETHER	3.444	45	5896	N.D.	
27) 2,2-Dichloropropane	3.920	77	1869	N.D.	
28) CIS-1,2-DICHLOROETHENE	3.859	96	3019	0.3022686 ppb	92
29) 2-BUTANONE (MEK)	4.174	72	3176	3.2868562 ppb #	60
30) BROMOCHLOROMETHANE	3.981	130	1580	N.D.	
31) TETRAHYDROFURAN	4.100	42	1865	0.6431002 ppb #	78
32) CHLOROFORM	4.004	83	3330	N.D.	
34) 1,1,1-TRICHLOROETHANE	4.133	97	2585	N.D.	
35) CARBON TETRACHLORIDE	4.091	119	2221	N.D.	

Quantitation Report (QT Reviewed)

Data Path : C:\MSDchem\1\data\112314a\
Data File : 1123 14a.D
Acq On : 24 Nov 2014 3:37 am
Operator : 644
Sample : INSTBLK VMS
Misc : water IS/SURR14K01013
ALS Vial : 14 Sample Multiplier: 1
InstName : VOCMS20

Quant Time: Nov 24 14:40:33 2014
Quant Method : C:\MSDchem\1\methods\V820K23N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS20
QLast Update : Mon Nov 24 14:32:41 2014
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units		Dev(Min)
36) 1,1-Dichloropropene	4.197	75	3361	N.D.		
37) 2,2,4-TRIMETHYLPENTANE	4.229	57	7784	N.D.		
38) HEPTANE	4.271	43	5423	0.3257916 ppb	#	88
39) BENZENE	4.342	78	11326	N.D.		
40) 1,2-DICHLOROETHANE	4.461	62	4198	0.3644617 ppb	#	72
42) TRICHLOROETHENE	4.666	130	3151	0.3780381 ppb		95
43) 1,2-DICHLOROPROPANE	4.988	62	1642	N.D.		
44) DIBROMOMETHANE	4.930	93	2024	0.4118567 ppb		98
45) BROMODICHLOROMETHANE	5.007	83	3053	N.D.		
47) 2-CHLOROETHYL VINYL ETHER	5.322	63	1439	0.4076628 ppb	#	79
48) CIS-1,3-DICHLOROPROPENE	5.387	75	6178	0.3968406 ppb	#	95
49) 4-METHYL-2-PENTANONE (...	5.753	58	13937	4.4368405 ppb		88
51) TOLUENE	5.531	91	18758	0.4235377 ppb		96
52) TRANS-1,3-DICHLOROPROPENE	5.785	110	1560	0.4985538 ppb	#	79
54) 1,1,2-TRICHLOROETHANE	5.898	97	2357	0.3164963 ppb		90
55) TETRACHLOROETHENE	5.782	164	2008	0.3577346 ppb		90
56) 1,3-Dichloropropane	6.081	76	6152	0.4146840 ppb		91
57) 2-HEXANONE	6.293	58	20872	7.2137784 ppb		97
58) CHLORODIBROMOMETHANE	6.023	129	2294	0.3177133 ppb	#	84
59) 1,2-DIBROMOETHANE	6.203	107	3896	0.5629791 ppb		98
60) CHLOROBENZENE	6.538	112	13306	0.5425958 ppb		95
61) 1,1,1,2-TETRACHLOROETHANE	6.570	133	1569	N.D.		
62) ETHYLBENZENE	6.531	106	5481	0.4338111 ppb		93
63) M&P-XYLENE	6.624	106	16309	1.0136377 ppb		86
64) O-XYLENE	6.936	106	6715	0.4408970 ppb		90
65) STYRENE	6.972	104	15983	0.6403078 ppb		99
66) Bromoform	7.020	173	1850	0.4793861 ppb	#	77
67) Isopropylbenzene	7.149	105	21056	0.5490971 ppb	#	95
69) Bromobenzene	7.467	77	19047	0.9144425 ppb		94
70) 1,1,2,2-TETRACHLOROETHANE	7.505	83	4844	0.5060852 ppb	#	93
71) 1,2,3-TRICHLOROPROPANE	7.628	110	1792	0.6703217 ppb	#	84
72) TRANS-1,4-DICHLORO-2-B...	7.644	53	2336	0.8326809 ppb	#	88
73) n-Propylbenzene	7.451	91	51333	1.0005135 ppb		98
74) 4-ETHYLTOLUENE	7.528	105	42640	1.0439701 ppb		96
75) 2-Chlorotoluene	7.589	126	6495	0.6793811 ppb		93
76) 4-Chlorotoluene	7.711	91	36262	1.1373600 ppb		98
77) 1,3,5-Trimethylbenzene	7.589	105	30336	0.8839724 ppb		97
78) tert-Butylbenzene	7.833	119	26182	0.9771488 ppb		99
79) 1,2,4-Trimethylbenzene	7.888	105	42141	1.2200249 ppb		100
80) sec-Butylbenzene	7.968	105	45997	1.0611323 ppb		99
81) 1,3-DICHLOROBENZENE	8.168	146	25718	1.4195532 ppb		98
82) p-Isopropyltoluene	8.071	119	46870	1.3683441 ppb		99
83) DICYCLOPENTADIENE	8.078	66	24242	0.5514530 ppb		95
85) 1,4-DICHLOROBENZENE	8.232	146	34439	1.8178428 ppb	#	1
86) 1,2,3-TRIMETHYLBENZENE	8.232	105	49894	1.3347491 ppb		98
87) 1,2-DICHLOROBENZENE	8.566	146	30903	1.8375423 ppb		95
88) n-Butylbenzene	8.402	91	120811	3.3996234 ppb		98
89) 1,2-Dibromo-3-chloropr...	9.210	157	2252	1.6416342 ppb	#	73
90) 1,2,4-Trichlorobenzene	9.753	180	59880	6.1103496 ppb		96
91) HEXACHLORO-1,3-BUTADIENE	9.708	225	14816	2.9069982 ppb		99
92) Naphthalene	10.033	128	171948	6.9178168 ppb		99
93) 1,2,3-Trichlorobenzene	10.184	180	77593	8.6807983 ppb		99
94) 1-Methylnaphthalene	10.898	142	271447	21.2160902 ppb		99
95) 2-Methylnaphthalene	11.033	142	247490	21.8420319 ppb		96

Quantitation Report (QT Reviewed)

Data Path : C:\MSDchem\1\data\112314a\
Data File : 1123 14a.D
Acq On : 24 Nov 2014 3:37 am
Operator : 644
Sample : INSTBLK VMS
Misc : water IS/SURR14K01013
ALS Vial : 14 Sample Multiplier: 1
InstName : VOCMS20

Quant Time: Nov 24 14:40:33 2014
Quant Method : C:\MSDchem\1\methods\V820K23N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS20
QLast Update : Mon Nov 24 14:32:41 2014
Response via : Initial Calibration

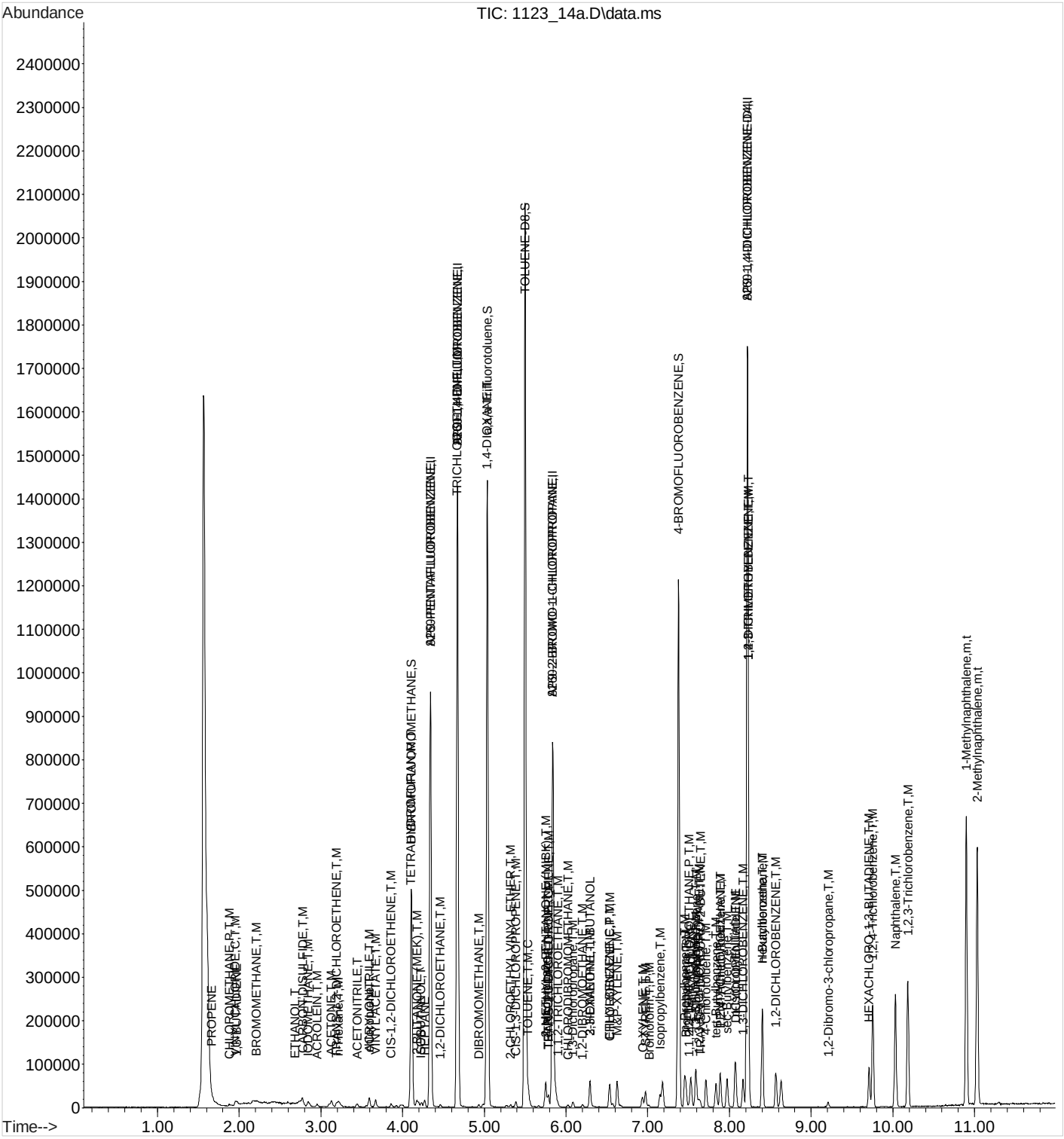
	Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
97)	ETHANOL	2.682	45	651	7.2885172 ppb #	34
98)	Bromoethane	0.000		0	N.D.	
99)	2-PROPANOL	0.000		0	N.D.	
100)	Methyl Acetate	3.187	43	1097	N.D.	
101)	ACETONITRILE	3.441	41	1194	0.9593286 ppb #	35
102)	ALLYL CHLORIDE	0.000		0	N.D.	
103)	tert-BUTYL ALCOHOL	0.000		0	N.D.	
104)	chloroprene	3.589	53	14624	1.8870322 ppb #	25
105)	ETHYL TERT-BUTYL ETHER	0.000		0	N.D.	
106)	PROPIONITRILE	0.000		0	N.D.	
107)	Ethyl Acetate	4.100	43	607	N.D.	
108)	METHACRYLONITRILE	4.332	67	882	N.D.	
109)	Cyclohexane	0.000		0	N.D.	
110)	tert-butyl formate	0.000		0	N.D.	
111)	ISOBUTANOL	4.226	41	2058	4.5429809 ppb #	1
112)	t-Amyl Alcohol	0.000		0	N.D.	
113)	TERT-AMYL METHYL ETHER	4.345	73	704	N.D.	
115)	N-BUTANOL	0.000		0	N.D.	
116)	Methyl Cyclohexane	4.670	83	11965	Below Cal #	37
117)	2-nitropropane	5.753	43	39502	19.8169953 ppb #	38
118)	METHYL METHACRYLATE	4.985	41	1664	N.D.	
119)	1,4-DIOXANE	5.033	88	5753	71.5290147 ppb #	34
120)	n-octane	0.000		0	N.D.	
121)	3,3-DIMETHYL-1-BUTANOL	6.293	57	6730	10.8892558 ppb #	43
123)	ETHYL METHACRYLATE	0.000		0	N.D.	
124)	CIS-1,4-DICHLORO-2-BUTENE	7.538	53	578	N.D.	
125)	Cyclohexanone	0.000		0	N.D.	
126)	PENTACHLOROETHANE	7.888	117	1590	0.3037933 ppb #	16
127)	Hexachloroethane	8.402	117	2818	0.4369644 ppb #	11

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\MSDchem\1\data\112314a\
Data File : 1123 14a.D
Acq On : 24 Nov 2014 3:37 am
Operator : 644
Sample : INSTBLK VMS
Misc : water IS/SURR14K01013
ALS Vial : 14 Sample Multiplier: 1
InstName : VOCMS20

Quant Time: Nov 24 14:40:33 2014
Quant Method : C:\MSDchem\1\methods\V820K23N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS20
QLast Update : Mon Nov 24 14:32:41 2014
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\MSDchem\1\data\112314a\
Data File : 1123 16A.D
Acq On : 24 Nov 2014 9:21 am
Operator : 644
Sample : INSTBLK VMS
Misc : water IS/SURR14K01013
ALS Vial : 16 Sample Multiplier: 1
InstName : VOCMS20

Quant Time: Nov 24 14:40:47 2014
Quant Method : C:\MSDchem\1\methods\V820K23N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS20
QLast Update : Mon Nov 24 14:32:41 2014
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 8260-PENTAFLUOROBENZENE	4.338	168	475398	40.0000000 ppb	0.00
41) 8260-1,4-DIFLUOROBENZENE	4.669	114	903527	40.0000000 ppb	0.00
53) 8260-2-BROMO-1-CHLOROP...	5.837	79	154194	40.0000000 ppb	0.00
84) 8260-1,4-DICHLOROBENZE...	8.219	152	395031	40.0000000 ppb	0.00
96) AP9-PENTAFLUOROBENZENE	4.338	168	475398	40.0000000 ppb	0.00
114) AP9-1,4-DIFLUOROBENZENE	4.669	114	903527	40.0000000 ppb	0.00
122) AP9-2-BROMO-1-CHLOROPR...	5.837	79	154194	40.0000000 ppb	# 0.00
128) AP9-1,4-DICHLOROBENZEN...	8.219	152	395031	40.0000000 ppb	0.00
System Monitoring Compounds					
33) DIBROMOFLUOROMETHANE	4.107	111	263556	40.4390984 ppb	0.00
Spiked Amount 40.000	Range 78 - 121		Recovery = 101.10%		
46) a,a,a-Trifluorotoluene	5.036	146	482940	42.2075055 ppb	0.00
Spiked Amount 40.000	Range 85 - 114		Recovery = 105.52%		
50) TOLUENE-D8	5.499	98	1167312	40.7679531 ppb	0.00
Spiked Amount 40.000	Range 89 - 111		Recovery = 101.92%		
68) 4-BROMOFLUOROBENZENE	7.377	95	409699	40.5192950 ppb	0.00
Spiked Amount 40.000	Range 71 - 126		Recovery = 101.30%		
Target Compounds					Qvalue
2) TPH (GC/MS) LOW FRACTION	4.096	TIC -7918416		No Calib	
3) PROPENE	1.666	41	1060	0.4824776 ppb #	73
4) DICHLORODIFLUOROMETHANE	0.000		0	N.D.	
5) CHLOROMETHANE	1.879	50	1903	N.D.	
6) VINYL CHLORIDE	1.946	62	725	N.D.	
7) 1,3-BUTADIENE	1.962	39	1910	N.D.	
8) BROMOMETHANE	2.216	94	1004	N.D.	
9) CHLOROETHANE	0.000		0	N.D.	
10) TRICHLOROFLUOROMETHANE	2.399	101	1138	N.D.	
11) DICHLOROFLUOROMETHANE	2.435	67	1310	N.D.	
12) ETHYL ETHER	0.000		0	N.D.	
13) ACROLEIN	2.949	56	739	0.5533075 ppb #	66
14) 1,1-DICHLOROETHENE	2.740	61	1375	N.D.	
15) 1,1,2-TRICHLOROTRIFLUO...	0.000		0	N.D.	
16) ACETONE	3.133	43	7085	2.9134021 ppb	89
17) IODOMETHANE	2.853	142	4670	0.3826446 ppb #	91
18) CARBON DISULFIDE	2.776	76	7482	N.D.	
19) METHYLENE CHLORIDE	3.104	84	1224	N.D.	
20) ACRYLONITRILE	3.589	53	3381	1.0359704 ppb	97
21) n-Hexane	3.219	56	1443	N.D.	
22) TRANS-1,2-DICHLOROETHENE	3.194	96	1070	N.D.	
23) METHYL TERT-BUTYL ETHER	0.000		0	N.D.	
24) 1,1-DICHLOROETHANE	3.554	63	1228	N.D.	
25) VINYL ACETATE	3.670	43	4661	0.3290315 ppb #	76
26) DI-ISOPROPYL ETHER	3.438	45	1438	N.D.	
27) 2,2-Dichloropropane	3.920	77	1208	N.D.	
28) CIS-1,2-DICHLOROETHENE	3.859	96	978	N.D.	
29) 2-BUTANONE (MEK)	0.000		0	N.D.	
30) BROMOCHLOROMETHANE	0.000		0	N.D.	
31) TETRAHYDROFURAN	4.107	42	1151	0.3942906 ppb #	78
32) CHLOROFORM	4.001	83	1391	N.D.	
34) 1,1,1-TRICHLOROETHANE	4.133	97	1287	N.D.	
35) CARBON TETRACHLORIDE	4.094	119	744	N.D.	

Quantitation Report (QT Reviewed)

Data Path : C:\MSDchem\1\data\112314a\
Data File : 1123 16A.D
Acq On : 24 Nov 2014 9:21 am
Operator : 644
Sample : INSTBLK VMS
Misc : water IS/SURR14K01013
ALS Vial : 16 Sample Multiplier: 1
InstName : VOCMS20

Quant Time: Nov 24 14:40:47 2014
Quant Method : C:\MSDchem\1\methods\V820K23N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS20
QLast Update : Mon Nov 24 14:32:41 2014
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
36) 1,1-Dichloropropene	4.197	75	1429	N.D.	
37) 2,2,4-TRIMETHYLPENTANE	4.229	57	5790	N.D.	
38) HEPTANE	4.271	43	2752	N.D.	
39) BENZENE	4.341	78	5860	N.D.	
40) 1,2-DICHLOROETHANE	4.467	62	1236	N.D.	
42) TRICHLOROETHENE	4.660	130	1657	N.D.	
43) 1,2-DICHLOROPROPANE	5.036	62	9596	1.2597537 ppb #	32
44) DIBROMOMETHANE	5.036	93	1907	0.3859993 ppb #	1
45) BROMODICHLOROMETHANE	5.007	83	1155	N.D.	
47) 2-CHLOROETHYL VINYL ETHER	0.000		0	N.D.	
48) CIS-1,3-DICHLOROPROPENE	5.383	75	1641	N.D.	
49) 4-METHYL-2-PENTANONE (...	5.750	58	3628	1.1488729 ppb	99
51) TOLUENE	5.531	91	9498	N.D.	
52) TRANS-1,3-DICHLOROPROPENE	0.000		0	N.D.	
54) 1,1,2-TRICHLOROETHANE	0.000		0	N.D.	
55) TETRACHLOROETHENE	5.782	164	741	N.D.	
56) 1,3-Dichloropropane	6.087	76	2175	N.D.	
57) 2-HEXANONE	6.293	58	5623	1.8903715 ppb	93
58) CHLORODIBROMOMETHANE	6.023	129	515	N.D.	
59) 1,2-DIBROMOETHANE	6.203	107	878	N.D.	
60) CHLOROBENZENE	6.534	112	5165	N.D.	
61) 1,1,1,2-TETRACHLOROETHANE	0.000		0	N.D.	
62) ETHYLBENZENE	6.531	106	2251	N.D.	
63) M&P-XYLENE	6.624	106	7787	0.4707669 ppb	96
64) O-XYLENE	6.936	106	3020	N.D.	
65) STYRENE	6.972	104	4737	N.D.	
66) Bromoform	0.000		0	N.D.	
67) Isopropylbenzene	7.148	105	8668	N.D.	
69) Bromobenzene	7.464	77	7598	0.3548211 ppb	90
70) 1,1,2,2-TETRACHLOROETHANE	0.000		0	N.D.	
71) 1,2,3-TRICHLOROPROPANE	0.000		0	N.D.	
72) TRANS-1,4-DICHLORO-2-B...	0.000		0	N.D.	
73) n-Propylbenzene	7.451	91	23278	0.4413187 ppb	99
74) 4-ETHYLTOLUENE	7.528	105	18552	0.4418165 ppb	96
75) 2-Chlorotoluene	7.589	126	2445	N.D.	
76) 4-Chlorotoluene	7.711	91	13757	0.4197109 ppb	99
77) 1,3,5-Trimethylbenzene	7.586	105	11625	0.3294987 ppb	100
78) tert-Butylbenzene	7.833	119	9437	0.3425880 ppb	97
79) 1,2,4-Trimethylbenzene	7.888	105	13514	0.3805644 ppb	93
80) sec-Butylbenzene	7.968	105	16948	0.3803110 ppb	93
81) 1,3-DICHLOROBENZENE	8.168	146	9237	0.4959362 ppb	94
82) p-Isopropyltoluene	8.071	119	16317	0.4633627 ppb	94
83) DICYCLOPENTADIENE	8.078	66	7721	N.D.	
85) 1,4-DICHLOROBENZENE	8.232	146	11997	0.5906986 ppb #	1
86) 1,2,3-TRIMETHYLBENZENE	8.232	105	15480	0.3862867 ppb	93
87) 1,2-DICHLOROBENZENE	8.566	146	8503	0.4716245 ppb	99
88) n-Butylbenzene	8.402	91	32345	0.8490220 ppb	99
89) 1,2-Dibromo-3-chloropr...	0.000		0	N.D.	
90) 1,2,4-Trichlorobenzene	9.756	180	12977	1.2352249 ppb	98
91) HEXACHLORO-1,3-BUTADIENE	9.708	225	3554	0.6504571 ppb	93
92) Naphthalene	10.033	128	36384	1.3654312 ppb	98
93) 1,2,3-Trichlorobenzene	10.187	180	13071	1.3640597 ppb	96
94) 1-Methylnaphthalene	10.901	142	45179	3.2938542 ppb	98
95) 2-Methylnaphthalene	11.033	142	39095	3.2184299 ppb	96

Quantitation Report (QT Reviewed)

Data Path : C:\MSDchem\1\data\112314a\
Data File : 1123 16A.D
Acq On : 24 Nov 2014 9:21 am
Operator : 644
Sample : INSTBLK VMS
Misc : water IS/SURR14K01013
ALS Vial : 16 Sample Multiplier: 1
InstName : VOCMS20

Quant Time: Nov 24 14:40:47 2014
Quant Method : C:\MSDchem\1\methods\V820K23N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS20
QLast Update : Mon Nov 24 14:32:41 2014
Response via : Initial Calibration

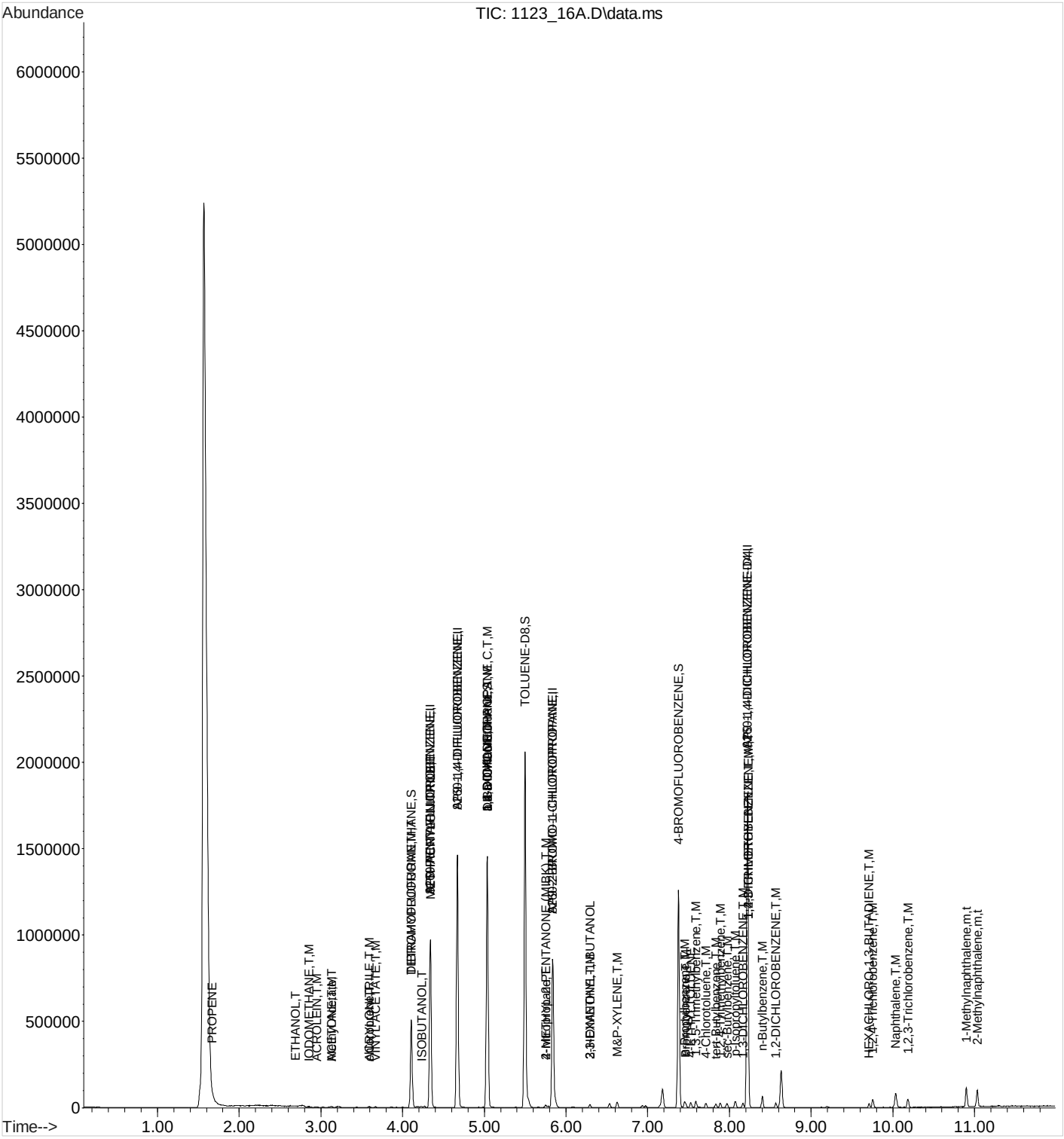
	Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
97)	ETHANOL	2.689	45	845	9.3984490 ppb #	34
98)	Bromoethane	0.000		0	N.D.	
99)	2-PROPANOL	3.026	45	3331	No Calib	
100)	Methyl Acetate	3.133	43	7085	1.1200639 ppb #	56
101)	ACETONITRILE	0.000		0	N.D.	
102)	ALLYL CHLORIDE	0.000		0	N.D.	
103)	tert-BUTYL ALCOHOL	0.000		0	N.D.	
104)	chloroprene	3.589	53	3381	0.4334106 ppb #	25
105)	ETHYL TERT-BUTYL ETHER	0.000		0	N.D.	
106)	PROPIONITRILE	0.000		0	N.D.	
107)	Ethyl Acetate	0.000		0	N.D.	
108)	METHACRYLONITRILE	4.341	67	1498	0.4101480 ppb #	12
109)	Cyclohexane	0.000		0	N.D.	
110)	tert-butyl formate	0.000		0	N.D.	
111)	ISOBUTANOL	4.232	41	1756	3.8508920 ppb #	26
112)	t-Amyl Alcohol	0.000		0	N.D.	
113)	TERT-AMYL METHYL ETHER	4.338	73	573	N.D.	
115)	N-BUTANOL	0.000		0	N.D.	
116)	Methyl Cyclohexane	4.666	83	13617	Below Cal #	37
117)	2-nitropropane	5.750	43	9452	4.7167474 ppb #	43
118)	METHYL METHACRYLATE	4.988	41	958	N.D.	
119)	1,4-DIOXANE	5.036	88	5282	65.3260577 ppb #	43
120)	n-octane	0.000		0	N.D.	
121)	3,3-DIMETHYL-1-BUTANOL	6.296	57	1714	2.7586343 ppb #	16
123)	ETHYL METHACRYLATE	0.000		0	N.D.	
124)	CIS-1,4-DICHLORO-2-BUTENE	0.000		0	N.D.	
125)	Cyclohexanone	0.000		0	N.D.	
126)	PENTACHLOROETHANE	7.840	117	632	N.D.	
127)	Hexachloroethane	8.396	117	617	N.D.	

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\MSDchem\1\data\112314a\
Data File : 1123 16A.D
Acq On : 24 Nov 2014 9:21 am
Operator : 644
Sample : INSTBLK VMS
Misc : water IS/SURR14K01013
ALS Vial : 16 Sample Multiplier: 1
InstName : VOCMS20

Quant Time: Nov 24 14:40:47 2014
Quant Method : C:\MSDchem\1\methods\V820K23N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS20
QLast Update : Mon Nov 24 14:32:41 2014
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\MSDchem\1\data\112314a\
Data File : 1123 16A.D
Acq On : 24 Nov 2014 9:21 am
Operator : 644
Sample : INSTBLK VMS
Misc : water IS/SURR14K01013
ALS Vial : 16 Sample Multiplier: 1
InstName : VOCMS20

Quant Time: Nov 24 14:40:47 2014
Quant Method : C:\MSDchem\1\methods\V820K23N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS20
QLast Update : Mon Nov 24 14:32:41 2014
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 8260-PENTAFLUOROBENZENE	4.338	168	475398	40.0000000 ppb	0.00
41) 8260-1,4-DIFLUOROBENZENE	4.669	114	903527	40.0000000 ppb	0.00
53) 8260-2-BROMO-1-CHLOROP...	5.837	79	154194	40.0000000 ppb	0.00
84) 8260-1,4-DICHLOROBENZE...	8.219	152	395031	40.0000000 ppb	0.00
96) AP9-PENTAFLUOROBENZENE	4.338	168	475398	40.0000000 ppb	0.00
114) AP9-1,4-DIFLUOROBENZENE	4.669	114	903527	40.0000000 ppb	0.00
122) AP9-2-BROMO-1-CHLOROPR...	5.837	79	154194	40.0000000 ppb	# 0.00
128) AP9-1,4-DICHLOROBENZEN...	8.219	152	395031	40.0000000 ppb	0.00
System Monitoring Compounds					
33) DIBROMOFLUOROMETHANE	4.107	111	263556	40.4390984 ppb	0.00
Spiked Amount 40.000	Range 78 - 121		Recovery = 101.10%		
46) a,a,a-Trifluorotoluene	5.036	146	482940	42.2075055 ppb	0.00
Spiked Amount 40.000	Range 85 - 114		Recovery = 105.52%		
50) TOLUENE-D8	5.499	98	1167312	40.7679531 ppb	0.00
Spiked Amount 40.000	Range 89 - 111		Recovery = 101.92%		
68) 4-BROMOFLUOROBENZENE	7.377	95	409699	40.5192950 ppb	0.00
Spiked Amount 40.000	Range 71 - 126		Recovery = 101.30%		
Target Compounds					Qvalue
2) TPH (GC/MS) LOW FRACTION	4.096	TIC -7918416		No Calib	
3) PROPENE	1.666	41	1060	0.4824776 ppb #	73
4) DICHLORODIFLUOROMETHANE	0.000		0	N.D.	
5) CHLOROMETHANE	1.879	50	1903	N.D.	
6) VINYL CHLORIDE	1.946	62	725	N.D.	
7) 1,3-BUTADIENE	1.962	39	1910	N.D.	
8) BROMOMETHANE	2.216	94	1004	N.D.	
9) CHLOROETHANE	0.000		0	N.D.	
10) TRICHLOROFLUOROMETHANE	2.399	101	1138	N.D.	
11) DICHLOROFLUOROMETHANE	2.435	67	1310	N.D.	
12) ETHYL ETHER	0.000		0	N.D.	
13) ACROLEIN	2.949	56	739	0.5533075 ppb #	66
14) 1,1-DICHLOROETHENE	2.740	61	1375	N.D.	
15) 1,1,2-TRICHLOROTRIFLUO...	0.000		0	N.D.	
16) ACETONE	3.133	43	7085	2.9134021 ppb	89
17) IODOMETHANE	2.853	142	4670	0.3826446 ppb #	91
18) CARBON DISULFIDE	2.776	76	7482	N.D.	
19) METHYLENE CHLORIDE	3.104	84	1224	N.D.	
20) ACRYLONITRILE	3.589	53	3381	1.0359704 ppb	97
21) n-Hexane	3.219	56	1443	N.D.	
22) TRANS-1,2-DICHLOROETHENE	3.194	96	1070	N.D.	
23) METHYL TERT-BUTYL ETHER	0.000		0	N.D.	
24) 1,1-DICHLOROETHANE	3.554	63	1228	N.D.	
25) VINYL ACETATE	3.670	43	4661	0.3290315 ppb #	76
26) DI-ISOPROPYL ETHER	3.438	45	1438	N.D.	
27) 2,2-Dichloropropane	3.920	77	1208	N.D.	
28) CIS-1,2-DICHLOROETHENE	3.859	96	978	N.D.	
29) 2-BUTANONE (MEK)	0.000		0	N.D.	
30) BROMOCHLOROMETHANE	0.000		0	N.D.	
31) TETRAHYDROFURAN	4.107	42	1151	0.3942906 ppb #	78
32) CHLOROFORM	4.001	83	1391	N.D.	
34) 1,1,1-TRICHLOROETHANE	4.133	97	1287	N.D.	
35) CARBON TETRACHLORIDE	4.094	119	744	N.D.	

Quantitation Report (QT Reviewed)

Data Path : C:\MSDchem\1\data\112314a\
Data File : 1123 16A.D
Acq On : 24 Nov 2014 9:21 am
Operator : 644
Sample : INSTBLK VMS
Misc : water IS/SURR14K01013
ALS Vial : 16 Sample Multiplier: 1
InstName : VOCMS20

Quant Time: Nov 24 14:40:47 2014
Quant Method : C:\MSDchem\1\methods\V820K23N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS20
QLast Update : Mon Nov 24 14:32:41 2014
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
36) 1,1-Dichloropropene	4.197	75	1429	N.D.	
37) 2,2,4-TRIMETHYLPENTANE	4.229	57	5790	N.D.	
38) HEPTANE	4.271	43	2752	N.D.	
39) BENZENE	4.341	78	5860	N.D.	
40) 1,2-DICHLOROETHANE	4.467	62	1236	N.D.	
42) TRICHLOROETHENE	4.660	130	1657	N.D.	
43) 1,2-DICHLOROPROPANE	5.036	62	9596	1.2597537 ppb #	32
44) DIBROMOMETHANE	5.036	93	1907	0.3859993 ppb #	1
45) BROMODICHLOROMETHANE	5.007	83	1155	N.D.	
47) 2-CHLOROETHYL VINYL ETHER	0.000		0	N.D.	
48) CIS-1,3-DICHLOROPROPENE	5.383	75	1641	N.D.	
49) 4-METHYL-2-PENTANONE (...	5.750	58	3628	1.1488729 ppb	99
51) TOLUENE	5.531	91	9498	N.D.	
52) TRANS-1,3-DICHLOROPROPENE	0.000		0	N.D.	
54) 1,1,2-TRICHLOROETHANE	0.000		0	N.D.	
55) TETRACHLOROETHENE	5.782	164	741	N.D.	
56) 1,3-Dichloropropane	6.087	76	2175	N.D.	
57) 2-HEXANONE	6.293	58	5623	1.8903715 ppb	93
58) CHLORODIBROMOMETHANE	6.023	129	515	N.D.	
59) 1,2-DIBROMOETHANE	6.203	107	878	N.D.	
60) CHLOROBENZENE	6.534	112	5165	N.D.	
61) 1,1,1,2-TETRACHLOROETHANE	0.000		0	N.D.	
62) ETHYLBENZENE	6.531	106	2251	N.D.	
63) M&P-XYLENE	6.624	106	7787	0.4707669 ppb	96
64) O-XYLENE	6.936	106	3020	N.D.	
65) STYRENE	6.972	104	4737	N.D.	
66) Bromoform	0.000		0	N.D.	
67) Isopropylbenzene	7.148	105	8668	N.D.	
69) Bromobenzene	7.464	77	7598	0.3548211 ppb	90
70) 1,1,2,2-TETRACHLOROETHANE	0.000		0	N.D.	
71) 1,2,3-TRICHLOROPROPANE	0.000		0	N.D.	
72) TRANS-1,4-DICHLORO-2-B...	0.000		0	N.D.	
73) n-Propylbenzene	7.451	91	23278	0.4413187 ppb	99
74) 4-ETHYLTOLUENE	7.528	105	18552	0.4418165 ppb	96
75) 2-Chlorotoluene	7.589	126	2445	N.D.	
76) 4-Chlorotoluene	7.711	91	13757	0.4197109 ppb	99
77) 1,3,5-Trimethylbenzene	7.586	105	11625	0.3294987 ppb	100
78) tert-Butylbenzene	7.833	119	9437	0.3425880 ppb	97
79) 1,2,4-Trimethylbenzene	7.888	105	13514	0.3805644 ppb	93
80) sec-Butylbenzene	7.968	105	16948	0.3803110 ppb	93
81) 1,3-DICHLOROBENZENE	8.168	146	9237	0.4959362 ppb	94
82) p-Isopropyltoluene	8.071	119	16317	0.4633627 ppb	94
83) DICYCLOPENTADIENE	8.078	66	7721	N.D.	
85) 1,4-DICHLOROBENZENE	8.232	146	11997	0.5906986 ppb #	1
86) 1,2,3-TRIMETHYLBENZENE	8.232	105	15480	0.3862867 ppb	93
87) 1,2-DICHLOROBENZENE	8.566	146	8503	0.4716245 ppb	99
88) n-Butylbenzene	8.402	91	32345	0.8490220 ppb	99
89) 1,2-Dibromo-3-chloropr...	0.000		0	N.D.	
90) 1,2,4-Trichlorobenzene	9.756	180	12977	1.2352249 ppb	98
91) HEXACHLORO-1,3-BUTADIENE	9.708	225	3554	0.6504571 ppb	93
92) Naphthalene	10.033	128	36384	1.3654312 ppb	98
93) 1,2,3-Trichlorobenzene	10.187	180	13071	1.3640597 ppb	96
94) 1-Methylnaphthalene	10.901	142	45179	3.2938542 ppb	98
95) 2-Methylnaphthalene	11.033	142	39095	3.2184299 ppb	96

Quantitation Report (QT Reviewed)

Data Path : C:\MSDchem\1\data\112314a\
Data File : 1123 16A.D
Acq On : 24 Nov 2014 9:21 am
Operator : 644
Sample : INSTBLK VMS
Misc : water IS/SURR14K01013
ALS Vial : 16 Sample Multiplier: 1
InstName : VOCMS20

Quant Time: Nov 24 14:40:47 2014
Quant Method : C:\MSDchem\1\methods\V820K23N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS20
QLast Update : Mon Nov 24 14:32:41 2014
Response via : Initial Calibration

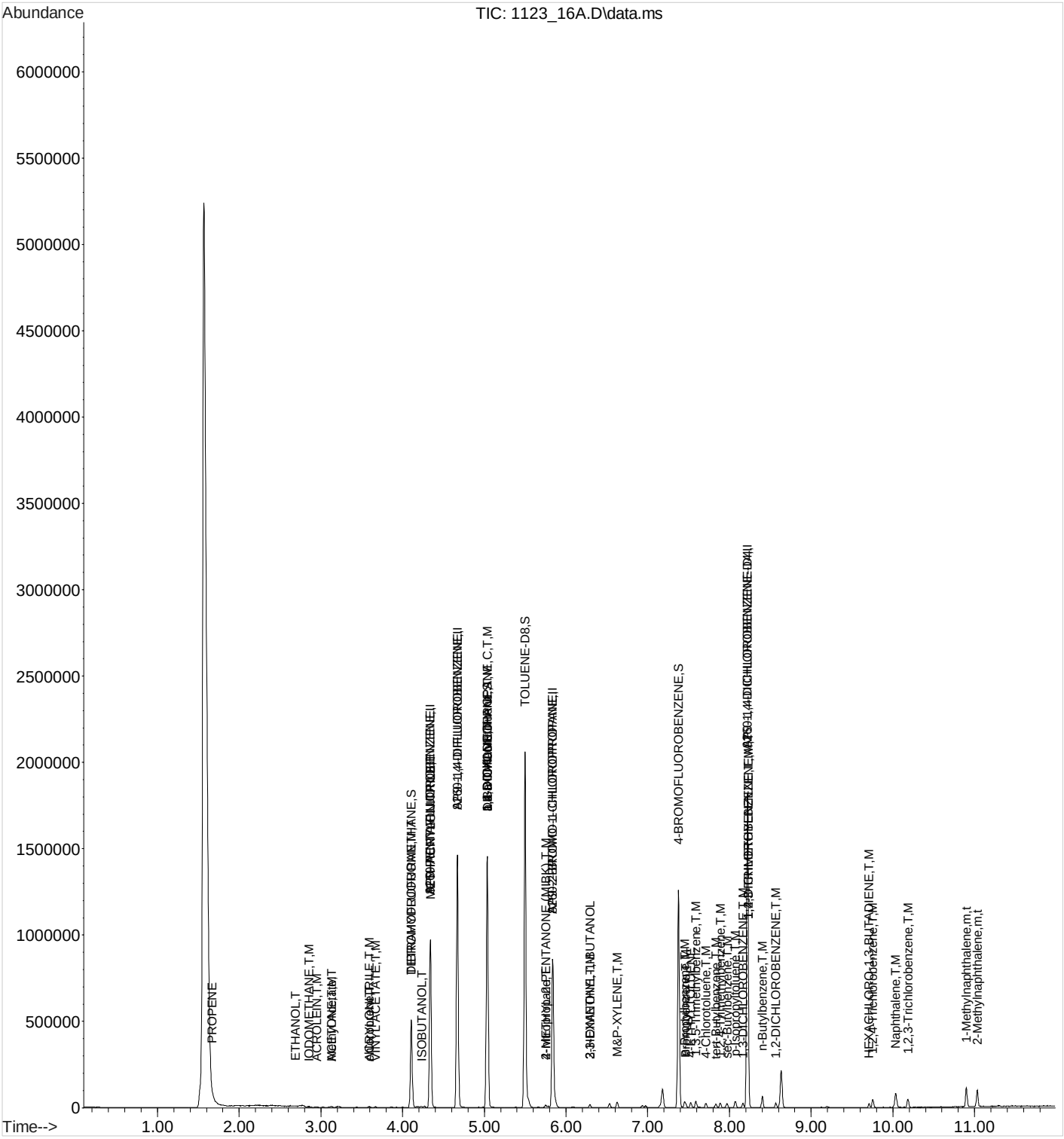
	Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
97)	ETHANOL	2.689	45	845	9.3984490 ppb #	34
98)	Bromoethane	0.000		0	N.D.	
99)	2-PROPANOL	3.026	45	3331	No Calib	
100)	Methyl Acetate	3.133	43	7085	1.1200639 ppb #	56
101)	ACETONITRILE	0.000		0	N.D.	
102)	ALLYL CHLORIDE	0.000		0	N.D.	
103)	tert-BUTYL ALCOHOL	0.000		0	N.D.	
104)	chloroprene	3.589	53	3381	0.4334106 ppb #	25
105)	ETHYL TERT-BUTYL ETHER	0.000		0	N.D.	
106)	PROPIONITRILE	0.000		0	N.D.	
107)	Ethyl Acetate	0.000		0	N.D.	
108)	METHACRYLONITRILE	4.341	67	1498	0.4101480 ppb #	12
109)	Cyclohexane	0.000		0	N.D.	
110)	tert-butyl formate	0.000		0	N.D.	
111)	ISOBUTANOL	4.232	41	1756	3.8508920 ppb #	26
112)	t-Amyl Alcohol	0.000		0	N.D.	
113)	TERT-AMYL METHYL ETHER	4.338	73	573	N.D.	
115)	N-BUTANOL	0.000		0	N.D.	
116)	Methyl Cyclohexane	4.666	83	13617	Below Cal #	37
117)	2-nitropropane	5.750	43	9452	4.7167474 ppb #	43
118)	METHYL METHACRYLATE	4.988	41	958	N.D.	
119)	1,4-DIOXANE	5.036	88	5282	65.3260577 ppb #	43
120)	n-octane	0.000		0	N.D.	
121)	3,3-DIMETHYL-1-BUTANOL	6.296	57	1714	2.7586343 ppb #	16
123)	ETHYL METHACRYLATE	0.000		0	N.D.	
124)	CIS-1,4-DICHLORO-2-BUTENE	0.000		0	N.D.	
125)	Cyclohexanone	0.000		0	N.D.	
126)	PENTACHLOROETHANE	7.840	117	632	N.D.	
127)	Hexachloroethane	8.396	117	617	N.D.	

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\MSDchem\1\data\112314a\
Data File : 1123 16A.D
Acq On : 24 Nov 2014 9:21 am
Operator : 644
Sample : INSTBLK VMS
Misc : water IS/SURR14K01013
ALS Vial : 16 Sample Multiplier: 1
InstName : VOCMS20

Quant Time: Nov 24 14:40:47 2014
Quant Method : C:\MSDchem\1\methods\V820K23N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS20
QLast Update : Mon Nov 24 14:32:41 2014
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\MSDchem\1\data\112314a\
Data File : 1123 26A.D
Acq On : 24 Nov 2014 12:46 pm
Operator : 644
Sample : INSTBLK VMS
Misc : water IS/SURR14K01013
ALS Vial : 26 Sample Multiplier: 1
InstName : VOCMS20

Quant Time: Nov 24 14:41:08 2014
Quant Method : C:\MSDchem\1\methods\V820K23N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS20
QLast Update : Mon Nov 24 14:32:41 2014
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 8260-PENTAFLUOROBENZENE	4.342	168	455480	40.0000000 ppb	0.00
41) 8260-1,4-DIFLUOROBENZENE	4.673	114	885633	40.0000000 ppb	0.00
53) 8260-2-BROMO-1-CHLOROP...	5.837	79	142751	40.0000000 ppb	0.00
84) 8260-1,4-DICHLOROBENZE...	8.219	152	348241	40.0000000 ppb	0.00
96) AP9-PENTAFLUOROBENZENE	4.342	168	455480	40.0000000 ppb	0.00
114) AP9-1,4-DIFLUOROBENZENE	4.673	114	885633	40.0000000 ppb	0.00
122) AP9-2-BROMO-1-CHLOROPR...	5.837	79	142751	40.0000000 ppb	# 0.00
128) AP9-1,4-DICHLOROBENZEN...	8.219	152	348241	40.0000000 ppb	0.00
System Monitoring Compounds					
33) DIBROMOFLUOROMETHANE	4.107	111	248279	39.7609344 ppb	0.00
Spiked Amount 40.000	Range 78 - 121		Recovery = 99.40%		
46) a,a,a-Trifluorotoluene	5.036	146	469191	41.8343981 ppb	0.00
Spiked Amount 40.000	Range 85 - 114		Recovery = 104.59%		
50) TOLUENE-D8	5.499	98	1120980	39.9408373 ppb	0.00
Spiked Amount 40.000	Range 89 - 111		Recovery = 99.85%		
68) 4-BROMOFLUOROBENZENE	7.377	95	367904	39.3024661 ppb	0.00
Spiked Amount 40.000	Range 71 - 126		Recovery = 98.26%		
Target Compounds					Qvalue
2) TPH (GC/MS) LOW FRACTION	4.096	TIC -7337025		No Calib	
3) PROPENE	1.670	41	574	N.D.	
4) DICHLORODIFLUOROMETHANE	0.000		0	N.D.	
5) CHLOROMETHANE	0.000		0	N.D.	
6) VINYL CHLORIDE	0.000		0	N.D.	
7) 1,3-BUTADIENE	1.965	39	1716	N.D.	
8) BROMOMETHANE	0.000		0	N.D.	
9) CHLOROETHANE	0.000		0	N.D.	
10) TRICHLOROFLUOROMETHANE	0.000		0	N.D.	
11) DICHLOROFLUOROMETHANE	0.000		0	N.D.	
12) ETHYL ETHER	0.000		0	N.D.	
13) ACROLEIN	0.000		0	N.D.	
14) 1,1-DICHLOROETHENE	0.000		0	N.D.	
15) 1,1,2-TRICHLOROTRIFLUO...	0.000		0	N.D.	
16) ACETONE	3.129	43	4195	1.8004480 ppb	# 76
17) IODOMETHANE	0.000		0	N.D.	
18) CARBON DISULFIDE	2.772	76	755	N.D.	
19) METHYLENE CHLORIDE	0.000		0	N.D.	
20) ACRYLONITRILE	3.535	53	1382	0.4419755 ppb	# 18
21) n-Hexane	0.000		0	N.D.	
22) TRANS-1,2-DICHLOROETHENE	0.000		0	N.D.	
23) METHYL TERT-BUTYL ETHER	0.000		0	N.D.	
24) 1,1-DICHLOROETHANE	0.000		0	N.D.	
25) VINYL ACETATE	0.000		0	N.D.	
26) DI-ISOPROPYL ETHER	0.000		0	N.D.	
27) 2,2-Dichloropropane	0.000		0	N.D.	
28) CIS-1,2-DICHLOROETHENE	0.000		0	N.D.	
29) 2-BUTANONE (MEK)	0.000		0	N.D.	
30) BROMOCHLOROMETHANE	0.000		0	N.D.	
31) TETRAHYDROFURAN	4.107	42	637	N.D.	
32) CHLOROFORM	0.000		0	N.D.	
34) 1,1,1-TRICHLOROETHANE	0.000		0	N.D.	
35) CARBON TETRACHLORIDE	0.000		0	N.D.	

Quantitation Report (QT Reviewed)

Data Path : C:\MSDchem\1\data\112314a\
Data File : 1123 26A.D
Acq On : 24 Nov 2014 12:46 pm
Operator : 644
Sample : INSTBLK VMS
Misc : water IS/SURR14K01013
ALS Vial : 26 Sample Multiplier: 1
InstName : VOCMS20

Quant Time: Nov 24 14:41:08 2014
Quant Method : C:\MSDchem\1\methods\V820K23N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS20
QLast Update : Mon Nov 24 14:32:41 2014
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
36) 1,1-Dichloropropene	0.000		0	N.D.	
37) 2,2,4-TRIMETHYLPENTANE	4.232	57	1571	N.D.	
38) HEPTANE	4.342	43	624	N.D.	
39) BENZENE	4.342	78	1439	N.D.	
40) 1,2-DICHLOROETHANE	0.000		0	N.D.	
42) TRICHLOROETHENE	0.000		0	N.D.	
43) 1,2-DICHLOROPROPANE	5.036	62	8672	1.1614540 ppb #	5
44) DIBROMOMETHANE	5.033	93	1887	0.3896682 ppb #	1
45) BROMODICHLOROMETHANE	0.000		0	N.D.	
47) 2-CHLOROETHYL VINYL ETHER	0.000		0	N.D.	
48) CIS-1,3-DICHLOROPROPENE	0.000		0	N.D.	
49) 4-METHYL-2-PENTANONE (...	0.000		0	N.D.	
51) TOLUENE	5.534	91	3720	N.D.	
52) TRANS-1,3-DICHLOROPROPENE	0.000		0	N.D.	
54) 1,1,2-TRICHLOROETHANE	0.000		0	N.D.	
55) TETRACHLOROETHENE	0.000		0	N.D.	
56) 1,3-Dichloropropane	6.087	76	744	N.D.	
57) 2-HEXANONE	0.000		0	N.D.	
58) CHLORODIBROMOMETHANE	0.000		0	N.D.	
59) 1,2-DIBROMOETHANE	0.000		0	N.D.	
60) CHLOROBENZENE	0.000		0	N.D.	
61) 1,1,1,2-TETRACHLOROETHANE	0.000		0	N.D.	
62) ETHYLBENZENE	0.000		0	N.D.	
63) M&P-XYLENE	6.628	106	1307	N.D.	
64) O-XYLENE	0.000		0	N.D.	
65) STYRENE	0.000		0	N.D.	
66) Bromoform	0.000		0	N.D.	
67) Isopropylbenzene	0.000		0	N.D.	
69) Bromobenzene	7.467	77	803	N.D.	
70) 1,1,2,2-TETRACHLOROETHANE	0.000		0	N.D.	
71) 1,2,3-TRICHLOROPROPANE	0.000		0	N.D.	
72) TRANS-1,4-DICHLORO-2-B...	0.000		0	N.D.	
73) n-Propylbenzene	7.451	91	1354	N.D.	
74) 4-ETHYLTOLUENE	7.525	105	1481	N.D.	
75) 2-Chlorotoluene	0.000		0	N.D.	
76) 4-Chlorotoluene	7.711	91	1026	N.D.	
77) 1,3,5-Trimethylbenzene	0.000		0	N.D.	
78) tert-Butylbenzene	7.869	119	759	N.D.	
79) 1,2,4-Trimethylbenzene	7.891	105	1020	N.D.	
80) sec-Butylbenzene	0.000		0	N.D.	
81) 1,3-DICHLOROBENZENE	8.161	146	760	N.D.	
82) p-Isopropyltoluene	0.000		0	N.D.	
83) DICYCLOPENTADIENE	0.000		0	N.D.	
85) 1,4-DICHLOROBENZENE	8.232	146	1162	N.D.	
86) 1,2,3-TRIMETHYLBENZENE	8.229	105	790	N.D.	
87) 1,2-DICHLOROBENZENE	0.000		0	N.D.	
88) n-Butylbenzene	8.399	91	853	N.D.	
89) 1,2-Dibromo-3-chloropr...	0.000		0	N.D.	
90) 1,2,4-Trichlorobenzene	0.000		0	N.D.	
91) HEXACHLORO-1,3-BUTADIENE	0.000		0	N.D.	
92) Naphthalene	10.029	128	2938	N.D.	
93) 1,2,3-Trichlorobenzene	0.000		0	N.D.	
94) 1-Methylnaphthalene	10.901	142	2315	N.D.	
95) 2-Methylnaphthalene	11.033	142	1369	N.D.	

Quantitation Report (QT Reviewed)

Data Path : C:\MSDchem\1\data\112314a\
Data File : 1123 26A.D
Acq On : 24 Nov 2014 12:46 pm
Operator : 644
Sample : INSTBLK VMS
Misc : water IS/SURR14K01013
ALS Vial : 26 Sample Multiplier: 1
InstName : VOCMS20

Quant Time: Nov 24 14:41:08 2014
Quant Method : C:\MSDchem\1\methods\V820K23N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS20
QLast Update : Mon Nov 24 14:32:41 2014
Response via : Initial Calibration

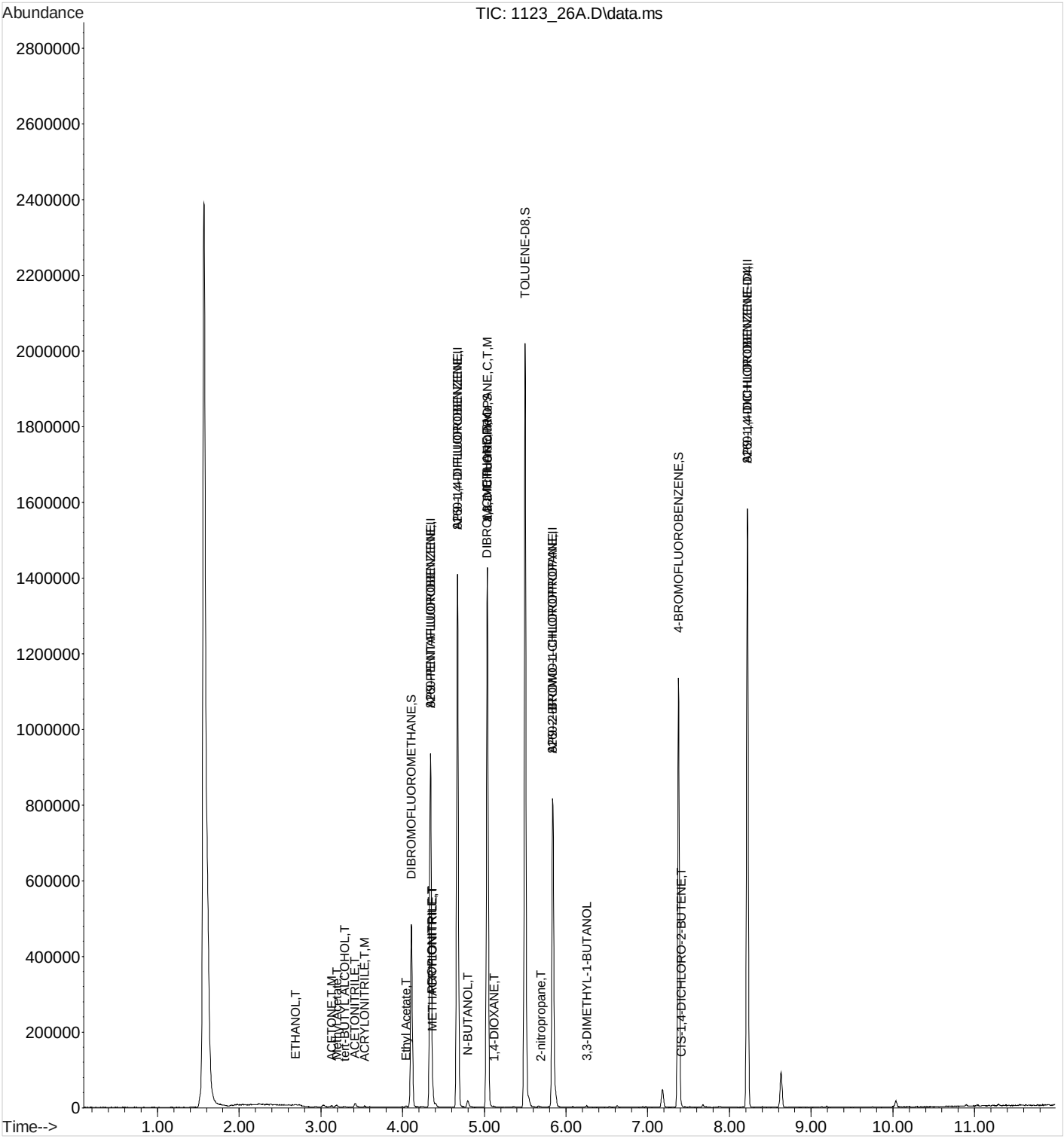
	Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
97)	ETHANOL	2.686	45	2539	29.4747559 ppb #	34
98)	Bromoethane	0.000		0	N.D.	
99)	2-PROPANOL	3.030	45	3465	No Calib	
100)	Methyl Acetate	3.194	43	6261	1.0330817 ppb #	95
101)	ACETONITRILE	3.416	41	10426	8.6858059 ppb	92
102)	ALLYL CHLORIDE	0.000		0	N.D.	
103)	tert-BUTYL ALCOHOL	3.293	59	2217	1.6506653 ppb #	83
104)	chloroprene	3.535	53	1382	N.D.	
105)	ETHYL TERT-BUTYL ETHER	0.000		0	N.D.	
106)	PROPIONITRILE	4.361	54	6937	5.8159212 ppb #	22
107)	Ethyl Acetate	4.043	43	3566	0.4229249 ppb #	68
108)	METHACRYLONITRILE	4.367	67	9797	2.7996900 ppb	91
109)	Cyclohexane	0.000		0	N.D.	
110)	tert-butyl formate	0.000		0	N.D.	
111)	ISOBUTANOL	0.000		0	N.D.	
112)	t-Amyl Alcohol	0.000		0	N.D.	
113)	TERT-AMYL METHYL ETHER	4.342	73	675	N.D.	
115)	N-BUTANOL	4.798	56	8364	33.4452956 ppb	94
116)	Methyl Cyclohexane	4.670	83	14124	N.D.	
117)	2-nitropropane	5.692	43	603	0.3069895 ppb #	68
118)	METHYL METHACRYLATE	5.059	41	1730	N.D.	
119)	1,4-DIOXANE	5.123	88	882	11.1286884 ppb #	20
120)	n-octane	0.000		0	N.D.	
121)	3,3-DIMETHYL-1-BUTANOL	6.255	57	1855	3.0458926 ppb #	88
123)	ETHYL METHACRYLATE	5.843	69	2324	N.D.	
124)	CIS-1,4-DICHLORO-2-BUTENE	7.409	53	880	0.3083667 ppb #	8
125)	Cyclohexanone	7.679	55	2689	No Calib	
126)	PENTACHLOROETHANE	7.869	117	941	N.D.	
127)	Hexachloroethane	0.000		0	N.D.	

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\MSDchem\1\data\112314a\
Data File : 1123 26A.D
Acq On : 24 Nov 2014 12:46 pm
Operator : 644
Sample : INSTBLK VMS
Misc : water IS/SURR14K01013
ALS Vial : 26 Sample Multiplier: 1
InstName : VOCMS20

Quant Time: Nov 24 14:41:08 2014
Quant Method : C:\MSDchem\1\methods\V820K23N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS20
QLast Update : Mon Nov 24 14:32:41 2014
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\MSDchem\1\data\112314a\
Data File : 1123 26A.D
Acq On : 24 Nov 2014 12:46 pm
Operator : 644
Sample : INSTBLK VMS
Misc : water IS/SURR14K01013
ALS Vial : 26 Sample Multiplier: 1
InstName : VOCMS20

Quant Time: Nov 24 14:41:08 2014
Quant Method : C:\MSDchem\1\methods\V820K23N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS20
QLast Update : Mon Nov 24 14:32:41 2014
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 8260-PENTAFLUOROBENZENE	4.342	168	455480	40.0000000 ppb	0.00
41) 8260-1,4-DIFLUOROBENZENE	4.673	114	885633	40.0000000 ppb	0.00
53) 8260-2-BROMO-1-CHLOROP...	5.837	79	142751	40.0000000 ppb	0.00
84) 8260-1,4-DICHLOROBENZE...	8.219	152	348241	40.0000000 ppb	0.00
96) AP9-PENTAFLUOROBENZENE	4.342	168	455480	40.0000000 ppb	0.00
114) AP9-1,4-DIFLUOROBENZENE	4.673	114	885633	40.0000000 ppb	0.00
122) AP9-2-BROMO-1-CHLOROPR...	5.837	79	142751	40.0000000 ppb	# 0.00
128) AP9-1,4-DICHLOROBENZEN...	8.219	152	348241	40.0000000 ppb	0.00
System Monitoring Compounds					
33) DIBROMOFLUOROMETHANE	4.107	111	248279	39.7609344 ppb	0.00
Spiked Amount 40.000	Range 78 - 121		Recovery = 99.40%		
46) a,a,a-Trifluorotoluene	5.036	146	469191	41.8343981 ppb	0.00
Spiked Amount 40.000	Range 85 - 114		Recovery = 104.59%		
50) TOLUENE-D8	5.499	98	1120980	39.9408373 ppb	0.00
Spiked Amount 40.000	Range 89 - 111		Recovery = 99.85%		
68) 4-BROMOFLUOROBENZENE	7.377	95	367904	39.3024661 ppb	0.00
Spiked Amount 40.000	Range 71 - 126		Recovery = 98.26%		
Target Compounds					Qvalue
2) TPH (GC/MS) LOW FRACTION	4.096	TIC -7337025		No Calib	
3) PROPENE	1.670	41	574	N.D.	
4) DICHLORODIFLUOROMETHANE	0.000		0	N.D.	
5) CHLOROMETHANE	0.000		0	N.D.	
6) VINYL CHLORIDE	0.000		0	N.D.	
7) 1,3-BUTADIENE	1.965	39	1716	N.D.	
8) BROMOMETHANE	0.000		0	N.D.	
9) CHLOROETHANE	0.000		0	N.D.	
10) TRICHLOROFLUOROMETHANE	0.000		0	N.D.	
11) DICHLOROFLUOROMETHANE	0.000		0	N.D.	
12) ETHYL ETHER	0.000		0	N.D.	
13) ACROLEIN	0.000		0	N.D.	
14) 1,1-DICHLOROETHENE	0.000		0	N.D.	
15) 1,1,2-TRICHLOROTRIFLUO...	0.000		0	N.D.	
16) ACETONE	3.129	43	4195	1.8004480 ppb	# 76
17) IODOMETHANE	0.000		0	N.D.	
18) CARBON DISULFIDE	2.772	76	755	N.D.	
19) METHYLENE CHLORIDE	0.000		0	N.D.	
20) ACRYLONITRILE	3.535	53	1382	0.4419755 ppb	# 18
21) n-Hexane	0.000		0	N.D.	
22) TRANS-1,2-DICHLOROETHENE	0.000		0	N.D.	
23) METHYL TERT-BUTYL ETHER	0.000		0	N.D.	
24) 1,1-DICHLOROETHANE	0.000		0	N.D.	
25) VINYL ACETATE	0.000		0	N.D.	
26) DI-ISOPROPYL ETHER	0.000		0	N.D.	
27) 2,2-Dichloropropane	0.000		0	N.D.	
28) CIS-1,2-DICHLOROETHENE	0.000		0	N.D.	
29) 2-BUTANONE (MEK)	0.000		0	N.D.	
30) BROMOCHLOROMETHANE	0.000		0	N.D.	
31) TETRAHYDROFURAN	4.107	42	637	N.D.	
32) CHLOROFORM	0.000		0	N.D.	
34) 1,1,1-TRICHLOROETHANE	0.000		0	N.D.	
35) CARBON TETRACHLORIDE	0.000		0	N.D.	

Quantitation Report (QT Reviewed)

Data Path : C:\MSDchem\1\data\112314a\
Data File : 1123 26A.D
Acq On : 24 Nov 2014 12:46 pm
Operator : 644
Sample : INSTBLK VMS
Misc : water IS/SURR14K01013
ALS Vial : 26 Sample Multiplier: 1
InstName : VOCMS20

Quant Time: Nov 24 14:41:08 2014
Quant Method : C:\MSDchem\1\methods\V820K23N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS20
QLast Update : Mon Nov 24 14:32:41 2014
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
36) 1,1-Dichloropropene	0.000		0	N.D.	
37) 2,2,4-TRIMETHYLPENTANE	4.232	57	1571	N.D.	
38) HEPTANE	4.342	43	624	N.D.	
39) BENZENE	4.342	78	1439	N.D.	
40) 1,2-DICHLOROETHANE	0.000		0	N.D.	
42) TRICHLOROETHENE	0.000		0	N.D.	
43) 1,2-DICHLOROPROPANE	5.036	62	8672	1.1614540 ppb #	5
44) DIBROMOMETHANE	5.033	93	1887	0.3896682 ppb #	1
45) BROMODICHLOROMETHANE	0.000		0	N.D.	
47) 2-CHLOROETHYL VINYL ETHER	0.000		0	N.D.	
48) CIS-1,3-DICHLOROPROPENE	0.000		0	N.D.	
49) 4-METHYL-2-PENTANONE (...	0.000		0	N.D.	
51) TOLUENE	5.534	91	3720	N.D.	
52) TRANS-1,3-DICHLOROPROPENE	0.000		0	N.D.	
54) 1,1,2-TRICHLOROETHANE	0.000		0	N.D.	
55) TETRACHLOROETHENE	0.000		0	N.D.	
56) 1,3-Dichloropropane	6.087	76	744	N.D.	
57) 2-HEXANONE	0.000		0	N.D.	
58) CHLORODIBROMOMETHANE	0.000		0	N.D.	
59) 1,2-DIBROMOETHANE	0.000		0	N.D.	
60) CHLOROBENZENE	0.000		0	N.D.	
61) 1,1,1,2-TETRACHLOROETHANE	0.000		0	N.D.	
62) ETHYLBENZENE	0.000		0	N.D.	
63) M&P-XYLENE	6.628	106	1307	N.D.	
64) O-XYLENE	0.000		0	N.D.	
65) STYRENE	0.000		0	N.D.	
66) Bromoform	0.000		0	N.D.	
67) Isopropylbenzene	0.000		0	N.D.	
69) Bromobenzene	7.467	77	803	N.D.	
70) 1,1,2,2-TETRACHLOROETHANE	0.000		0	N.D.	
71) 1,2,3-TRICHLOROPROPANE	0.000		0	N.D.	
72) TRANS-1,4-DICHLORO-2-B...	0.000		0	N.D.	
73) n-Propylbenzene	7.451	91	1354	N.D.	
74) 4-ETHYLTOLUENE	7.525	105	1481	N.D.	
75) 2-Chlorotoluene	0.000		0	N.D.	
76) 4-Chlorotoluene	7.711	91	1026	N.D.	
77) 1,3,5-Trimethylbenzene	0.000		0	N.D.	
78) tert-Butylbenzene	7.869	119	759	N.D.	
79) 1,2,4-Trimethylbenzene	7.891	105	1020	N.D.	
80) sec-Butylbenzene	0.000		0	N.D.	
81) 1,3-DICHLOROBENZENE	8.161	146	760	N.D.	
82) p-Isopropyltoluene	0.000		0	N.D.	
83) DICYCLOPENTADIENE	0.000		0	N.D.	
85) 1,4-DICHLOROBENZENE	8.232	146	1162	N.D.	
86) 1,2,3-TRIMETHYLBENZENE	8.229	105	790	N.D.	
87) 1,2-DICHLOROBENZENE	0.000		0	N.D.	
88) n-Butylbenzene	8.399	91	853	N.D.	
89) 1,2-Dibromo-3-chloropr...	0.000		0	N.D.	
90) 1,2,4-Trichlorobenzene	0.000		0	N.D.	
91) HEXACHLORO-1,3-BUTADIENE	0.000		0	N.D.	
92) Naphthalene	10.029	128	2938	N.D.	
93) 1,2,3-Trichlorobenzene	0.000		0	N.D.	
94) 1-Methylnaphthalene	10.901	142	2315	N.D.	
95) 2-Methylnaphthalene	11.033	142	1369	N.D.	

Quantitation Report (QT Reviewed)

Data Path : C:\MSDchem\1\data\112314a\
Data File : 1123 26A.D
Acq On : 24 Nov 2014 12:46 pm
Operator : 644
Sample : INSTBLK VMS
Misc : water IS/SURR14K01013
ALS Vial : 26 Sample Multiplier: 1
InstName : VOCMS20

Quant Time: Nov 24 14:41:08 2014
Quant Method : C:\MSDchem\1\methods\V820K23N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS20
QLast Update : Mon Nov 24 14:32:41 2014
Response via : Initial Calibration

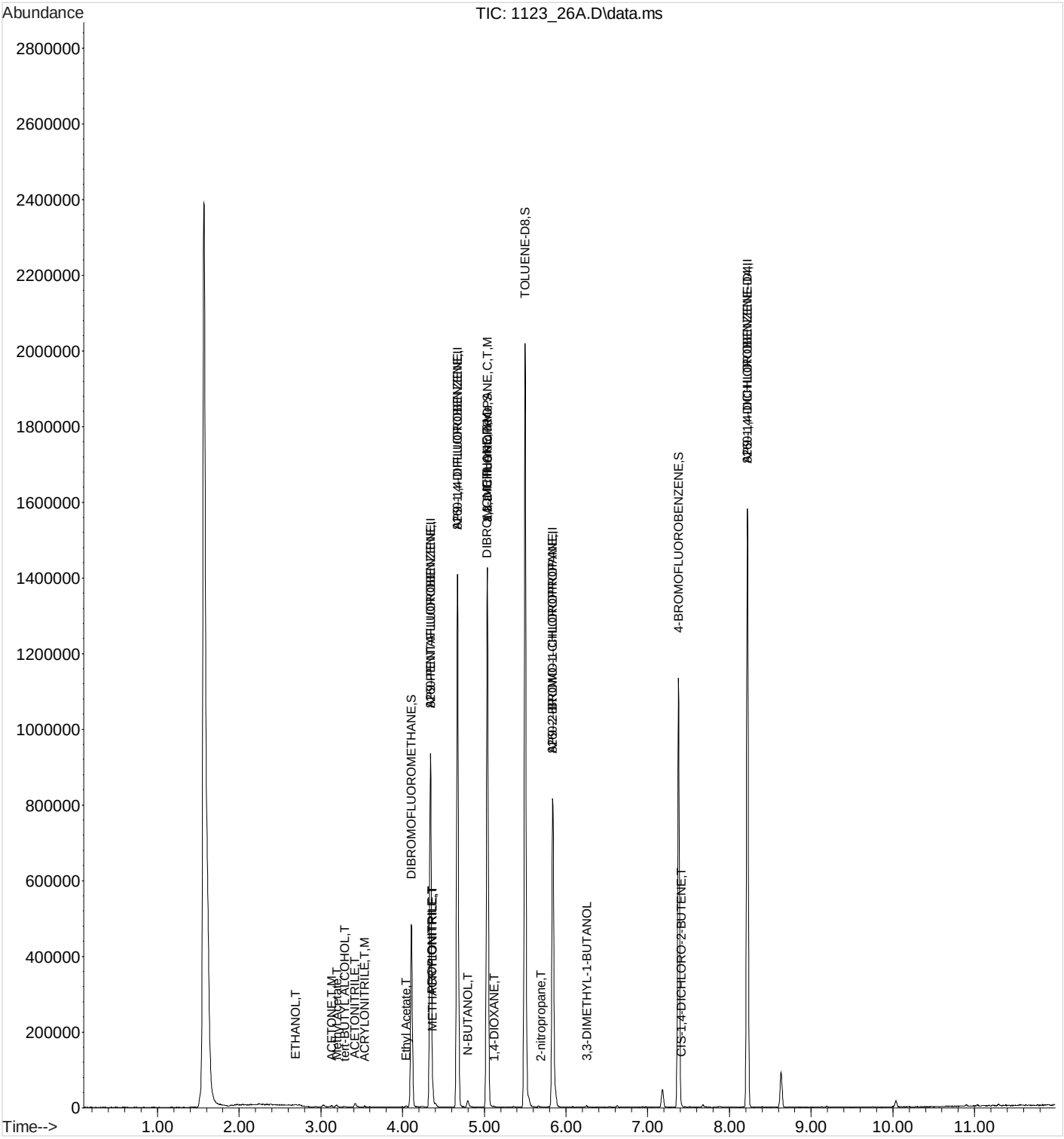
	Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
97)	ETHANOL	2.686	45	2539	29.4747559 ppb #	34
98)	Bromoethane	0.000		0	N.D.	
99)	2-PROPANOL	3.030	45	3465	No Calib	
100)	Methyl Acetate	3.194	43	6261	1.0330817 ppb #	95
101)	ACETONITRILE	3.416	41	10426	8.6858059 ppb	92
102)	ALLYL CHLORIDE	0.000		0	N.D.	
103)	tert-BUTYL ALCOHOL	3.293	59	2217	1.6506653 ppb #	83
104)	chloroprene	3.535	53	1382	N.D.	
105)	ETHYL TERT-BUTYL ETHER	0.000		0	N.D.	
106)	PROPIONITRILE	4.361	54	6937	5.8159212 ppb #	22
107)	Ethyl Acetate	4.043	43	3566	0.4229249 ppb #	68
108)	METHACRYLONITRILE	4.367	67	9797	2.7996900 ppb	91
109)	Cyclohexane	0.000		0	N.D.	
110)	tert-butyl formate	0.000		0	N.D.	
111)	ISOBUTANOL	0.000		0	N.D.	
112)	t-Amyl Alcohol	0.000		0	N.D.	
113)	TERT-AMYL METHYL ETHER	4.342	73	675	N.D.	
115)	N-BUTANOL	4.798	56	8364	33.4452956 ppb	94
116)	Methyl Cyclohexane	4.670	83	14124	N.D.	
117)	2-nitropropane	5.692	43	603	0.3069895 ppb #	68
118)	METHYL METHACRYLATE	5.059	41	1730	N.D.	
119)	1,4-DIOXANE	5.123	88	882	11.1286884 ppb #	20
120)	n-octane	0.000		0	N.D.	
121)	3,3-DIMETHYL-1-BUTANOL	6.255	57	1855	3.0458926 ppb #	88
123)	ETHYL METHACRYLATE	5.843	69	2324	N.D.	
124)	CIS-1,4-DICHLORO-2-BUTENE	7.409	53	880	0.3083667 ppb #	8
125)	Cyclohexanone	7.679	55	2689	No Calib	
126)	PENTACHLOROETHANE	7.869	117	941	N.D.	
127)	Hexachloroethane	0.000		0	N.D.	

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\MSDchem\1\data\112314a\
Data File : 1123 26A.D
Acq On : 24 Nov 2014 12:46 pm
Operator : 644
Sample : INSTBLK VMS
Misc : water IS/SURR14K01013
ALS Vial : 26 Sample Multiplier: 1
InstName : VOCMS20

Quant Time: Nov 24 14:41:08 2014
Quant Method : C:\MSDchem\1\methods\V820K23N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS20
QLast Update : Mon Nov 24 14:32:41 2014
Response via : Initial Calibration



Instrument: VOCMS7
Method: V807K24N

Initial Calibration Run Log

File ID	Level ID	Date Analyzed
1124_03.D	.25	11/24/2014 5:28:00 PM
1124_04.D	.5	11/24/2014 5:47:00 PM
1124_05.D	1	11/24/2014 6:06:00 PM
1124_06.D	2	11/24/2014 6:26:00 PM
1124_07.D	5.0	11/24/2014 6:45:00 PM
1124_08.D	10	11/24/2014 7:04:00 PM
1124_09.D	25	11/24/2014 7:23:00 PM
1124_10.D	40	11/24/2014 7:43:00 PM
1124_11.D	75	11/24/2014 8:02:00 PM
1124_12.D	100	11/24/2014 8:21:00 PM
1124_13.D	200	11/24/2014 8:40:00 PM
1124_18.D	1A	11/24/2014 10:17:00 PM
1124_19.D	2.5A	11/24/2014 10:36:00 PM
1124_20.D	5A	11/24/2014 10:55:00 PM
1124_21.D	7.5A	11/24/2014 11:14:00 PM
1124_22.D	10A	11/24/2014 11:34:00 PM
1124_23.D	12A	11/24/2014 11:53:00 PM
1124_24.D	15A	11/25/2014 12:12:00 AM
1124_25.D	17A	11/25/2014 12:32:00 AM
1124_26.D	20A	11/25/2014 12:51:00 AM

Mint Miner 2.6.4 Directory Scan: y:\112414

25 Nov 2014 14:33

Level	Status	Code	Operator	Instrument	Sample ID
Scan File Path: y:\112414\1124_01.D					
Original Path: 1124_01.D					
1	Scanned	ENR(1)	644	VOCMS7	INSTBLK VMS (water IS/SURR14I25028)
Scan File Path: y:\112414\1124_02.D					
Original Path: C:\msdchem\1\data\112414\1124_02.D					
1	Scanned	ENR(1)	644	VOCMS7	INSTBLK VMS (water IS/SURR14I25028)
Scan File Path: y:\112414\1124_03.D					
Original Path: C:\msdchem\1\data\112414\1124_03.D					
24	Scanned	D(19), MZ(5)	644	VOCMS7	STD VMS .25 ppb 14K20062 (water IS/SURR1
Scan File Path: y:\112414\1124_04.D					
Original Path: C:\msdchem\1\data\112414\1124_04.D					
25	Scanned	D(20), MZ(5)	644	VOCMS7	STD VMS .5 ppb 14K20062 (water IS/SURR14
Scan File Path: y:\112414\1124_05.D					
Original Path: C:\msdchem\1\data\112414\1124_05.D					
27	Scanned	D(22), MZ(5)	644	VOCMS7	STD VMS 1 ppb 14K20062 (water IS/SURR14I
Scan File Path: y:\112414\1124_05A.D					
Original Path: C:\msdchem\1\data\112414\1124_05.D					
27	Scanned	D(22), MZ(5)	644	VOCMS7	STD VMS 1 ppb 14K20062 (water IS/SURR14I
Scan File Path: y:\112414\1124_06A.D					
Original Path: C:\msdchem\1\data\112414\1124_06.D					
29	Scanned	D(24), MZ(5)	644	VOCMS7	STD VMS 2 ppb 14K20062 (water IS/SURR14I
Scan File Path: y:\112414\1124_06.D					
Original Path: C:\msdchem\1\data\112414\1124_06.D					
29	Scanned	D(24), MZ(5)	644	VOCMS7	STD VMS 2 ppb 14K20062 (water IS/SURR14I
Scan File Path: y:\112414\1124_07.D					
Original Path: C:\msdchem\1\data\112414\1124_07.D					
31	Scanned	D(26), MZ(5)	644	VOCMS7	STD VMS 5 ppb 14K20062 (water IS/SURR14I
Scan File Path: y:\112414\1124_07A.D					
Original Path: C:\msdchem\1\data\112414\1124_07.D					
31	Scanned	D(26), MZ(5)	644	VOCMS7	STD VMS 5 ppb 14K20062 (water IS/SURR14I
Scan File Path: y:\112414\1124_08.D					
Original Path: C:\msdchem\1\data\112414\1124_08.D					
32	Scanned	D(27), MZ(5)	644	VOCMS7	STD VMS 10 ppb 14K20062 (water IS/SURR14

Level	Status	Code	Operator	Instrument	Sample ID
Scan File Path: y:\112414\1124_09.D					
Original Path: C:\msdchem\1\data\112414\1124_09.D					
63	Scanned	D(58), MZ(5)	644	VOCMS7	MSTD VMS 25 ppb 14K20062 (water IS/SURR
Scan File Path: y:\112414\1124_10.D					
Original Path: C:\msdchem\1\data\112414\1124_10.D					
34	Scanned	D(29), MZ(5)	644	VOCMS7	STD VMS 40 ppb 14K20062 (water IS/SURR14
Scan File Path: y:\112414\1124_11.D					
Original Path: C:\msdchem\1\data\112414\1124_11.D					
36	Scanned	D(31), MZ(5)	644	VOCMS7	STD VMS 75 ppb 14K20062 (water IS/SURR14
Scan File Path: y:\112414\1124_12.D					
Original Path: C:\msdchem\1\data\112414\1124_12.D					
36	Scanned	D(31), MZ(5)	644	VOCMS7	STD VMS 100 ppb 14K20062 (water IS/SURR1
Scan File Path: y:\112414\1124_13.D					
Original Path: C:\msdchem\1\data\112414\1124_13.D					
37	Scanned	D(32), MZ(5)	644	VOCMS7	STD VMS 200 ppb 14K20062 (water IS/SURR1
Scan File Path: y:\112414\1124_14.D					
Original Path: C:\msdchem\1\data\112414\1124_14.D					
1	Scanned	ENR(1)	644	VOCMS7	INSTBLK (water IS/SURR14I25028)
Scan File Path: y:\112414\1124_15.D					
Original Path: C:\msdchem\1\data\112414\1124_15.D					
1	Scanned	ENR(1)	644	VOCMS7	SSCV VMS 25 ppb 14K20064 (water IS/SURR1
Scan File Path: y:\112414\1124_16.D					
Original Path: C:\msdchem\1\data\112414\1124_16.D					
1	Scanned	ENR(1)	644	VOCMS7	INSTBLK (water IS/SURR14I25028)
Scan File Path: y:\112414\1124_17.D					
Original Path: C:\msdchem\1\data\112414\1124_17.D					
1	Scanned	ENR(1)	644	VOCMS7	INSTBLK (water IS/SURR14I25028)
Scan File Path: y:\112414\1124_18.D					
Original Path: C:\msdchem\1\data\112414\1124_18.D					
88	Scanned	D(60), DK(5), DC(5), DP(2), DS(2), DB(2), MZ(4)	644	VOCMS7	STD VMS 1 ppb 14I02840 (water IS/SURR14I2
Scan File Path: y:\112414\1124_18A.D					
Original Path: C:\msdchem\1\data\112414\1124_18.D					
88	Scanned	D(60), DK(5), DC(5), DP(2), DS(2), DB(2), MZ(4)	644	VOCMS7	STD VMS 1 ppb 14I02840 (water IS/SURR14I2

Level	Status	Code	Operator	Instrument	Sample ID
Scan File Path: y:\112414\1124_19.D					
Original Path: C:\msdchem\1\data\112414\1124_19.D					
96	Scanned	D(65), DK(6), DC(5), DP(4), DS(2), DB(2), MZ(4)	644	VOCMS7	STD VMS 2.5 ppb 14I02840 (water IS/SURR14
Scan File Path: y:\112414\1124_20.D					
Original Path: C:\msdchem\1\data\112414\1124_20.D					
92	Scanned	D(64), DK(5), DC(4), DP(3), DS(2), DB(2), MZ(4)	644	VOCMS7	STD VMS 5 ppb 14I02840 (water IS/SURR14I2
Scan File Path: y:\112414\1124_21.D					
Original Path: C:\msdchem\1\data\112414\1124_21.D					
98	Scanned	D(67), DK(6), DC(5), DP(4), DS(2), DB(2), MZ(4)	644	VOCMS7	STD VMS 7.5 ppb 14I02840 (water IS/SURR14
Scan File Path: y:\112414\1124_22.D					
Original Path: C:\msdchem\1\data\112414\1124_22.D					
196	Scanned	D(134), DK(10), DC(10), DP(6), DS(4), DB(4), M(4), MZ(8)	644	VOCMS7	STD VMS 10a ppb 14I02840 (water IS/SURR14
Scan File Path: y:\112414\1124_23.D					
Original Path: C:\msdchem\1\data\112414\1124_23.D					
105	Scanned	D(70), DK(5), DC(5), DP(4), DS(2), DB(3), MZ(4)	644	VOCMS7	STD VMS 12.5 ppb 14I02840 (water IS/SURR1
Scan File Path: y:\112414\1124_24.D					
Original Path: C:\msdchem\1\data\112414\1124_24.D					
102	Scanned	D(71), DK(6), DC(5), DP(4), DS(2), DB(2), MZ(4)	644	VOCMS7	STD VMS 15 ppb 14I02840 (water IS/SURR14I
Scan File Path: y:\112414\1124_25.D					
Original Path: C:\msdchem\1\data\112414\1124_25.D					
105	Scanned	D(70), DC(5), DK(5), DP(4), DS(2), DB(3), MZ(4)	644	VOCMS7	STD VMS 17.5 ppb 14I02840 (water IS/SURR1
Scan File Path: y:\112414\1124_26.D					
Original Path: C:\msdchem\1\data\112414\1124_26.D					
107	Scanned	D(71), DK(6), DC(5), DP(4), DS(2), DB(3), MZ(4)	644	VOCMS7	STD VMS 20 ppb 14I02840 (water IS/SURR14I
Scan File Path: y:\112414\1124_27.D					
Original Path: C:\msdchem\1\data\112414\1124_27.D					
1	Scanned	ENR(1)	644	VOCMS7	INSTBLK (water IS/SURR14I25028)
Scan File Path: y:\112414\1124_28.D					
Original Path: C:\msdchem\1\data\112414\1124_28.D					
1	Scanned	ENR(1)	644	VOCMS7	SSCV VMS 10 ppb 14I02844 (water IS/SURR14

Level	Status	Code	Operator	Instrument	Sample ID

D	=	Deletion of any analyte	DB	=	Deletion of a common contaminant
DC	=	Deletion of a CCC	DK	=	Deletion of a spike compound
DP	=	Deletion of an SPCC	DS	=	Deletion of a surrogate
ENR	=	Quant report set to not reviewed (Disables MZ code)	M	=	Manual integration (non-specific)
MZ	=	Manual integrated but indicator missing from either the quant report or audit file			

ScanSummary.rpt

Total Files Scanned	32	Beginning Analyzed Date	11/24/2014 4:49:00PM
Methods	0	Ending Analyzed Date	11/25/2014 1:29:00AM
Samples	31	Analyzed Range	8 hours, 40 minutes
Tunes	1	Greatest Time Between Tunes	N/A
CCCs	0	Greatest Time Between CCCs	N/A

Distinct Method Last Updated count 0

Operators 1 Intruments 1

Environmental Science Corporation
12065 Lebanon Rd., Mt. Juliet, TN 37122

Injection Log

Instrument ID : VOCMS7
Computer Name : VOCCOMPK
Released By : Amy Green
Date Released : 11/25/2014 2:18:31 PM
Run ID : 112414
Signature : _____

#	File ID	Sample ID	Method	WG	Product	Matrix	Account #	State	Dil.	Mult.	Injected	Misc.
1	1124_01	INSTBLK	V807K24N						1	1	11/24/14 1649	"water IS/SURR14I25028 "
2	1124_01	INSTBLK VMS	V807K24N							1	11/24/14 1649	
3	1124_02	INSTBLK	V807K24N						1	1	11/24/14 1709	"water IS/SURR14I25028 "
4	1124_03	STD VMS .25 PPB 14K20062	V807K24N						1	1	11/24/14 1728	"water IS/SURR14I25028 "
5	1124_04	STD VMS .5 PPB 14K20062	V807K24N						1	1	11/24/14 1747	"water IS/SURR14I25028 "
6	1124_05	STD VMS 1 PPB 14K20062	V807K24N						1	1	11/24/14 1806	"water IS/SURR14I25028 "
7	1124_05A	RL VMS 1 PPB 14K20062	V807K24N						1	1	11/24/14 1806	"water IS/SURR14I25028 "
8	1124_06	STD VMS 2 PPB 14K20062	V807K24N						1	1	11/24/14 1826	"water IS/SURR14I25028 "
9	1124_06A	RL VMS 2 PPB 14K20062	V807K24N						1	1	11/24/14 1826	"water IS/SURR14I25028 "
10	1124_07	STD VMS 5 PPB 14K20062	V807K24N						1	1	11/24/14 1845	"water IS/SURR14I25028 "
11	1124_07A	RL VMS 5.0 PPB 14K20062	V807K24N						1	1	11/24/14 1845	"water IS/SURR14I25028 "
12	1124_08	STD VMS 10 PPB 14K20062	V807K24N						1	1	11/24/14 1904	"water IS/SURR14I25028 "
13	1124_09	MSTD VMS 25 PPB 14K20062	V807K24N						1	1	11/24/14 1923	"water IS/SURR14I25028 "
14	1124_10	STD VMS 40 PPB 14K20062	V807K24N						1	1	11/24/14 1943	"water IS/SURR14I25028 "
15	1124_11	STD VMS 75 PPB 14K20062	V807K24N						1	1	11/24/14 2002	"water IS/SURR14I25028 "

Environmental Science Corporation
12065 Lebanon Rd., Mt. Juliet, TN 37122

Injection Log

Instrument ID : VOCMS7
Computer Name : VOCCOMPK
Released By : Amy Green
Date Released : 11/25/2014 2:18:31 PM
Run ID : 112414
Signature : _____

#	File ID	Sample ID	Method	WG	Product	Matrix	Account #	State	Dil.	Mult.	Injected	Misc.
16	1124_12	STD VMS 100 PPB 14K20062	V807K24N						1	1	11/24/14 2021	"water IS/SURR14I25028 "
17	1124_13	STD VMS 200 PPB 14K20062	V807K24N						1	1	11/24/14 2040	"water IS/SURR14I25028 "
18	1124_14	INSTBLK	V807K24N						1	1	11/24/14 2100	"water IS/SURR14I25028 "
19	1124_15	SSCV VMS 25 PPB 14K20064	V807K24N						1	1	11/24/14 2119	"water IS/SURR14I25028 "
20	1124_16	INSTBLK	V807K24N						1	1	11/24/14 2138	"water IS/SURR14I25028 "
21	1124_17	INSTBLK	V807K24N						1	1	11/24/14 2157	"water IS/SURR14I25028 "
22	1124_18	STD VMS 1 PPB 14I02840	V807K24N						1	1	11/24/14 2217	"water IS/SURR14I25028 "
23	1124_18A	RL VMS 1A PPB 14I02840	V807K24N						1	1	11/24/14 2217	"water IS/SURR14I25028 "
24	1124_19	STD VMS 2.5 PPB 14I02840	V807K24N						1	1	11/24/14 2236	"water IS/SURR14I25028 "
25	1124_20	STD VMS 5 PPB 14I02840	V807K24N						1	1	11/24/14 2255	"water IS/SURR14I25028 "
26	1124_21	STD VMS 7.5 PPB 14I02840	V807K24N						1	1	11/24/14 2314	"water IS/SURR14I25028 "
27	1124_22	STD VMS 10A PPB 14I02840	V807K24N						1	1	11/24/14 2334	"water IS/SURR14I25028 "
28	1124_23	STD VMS 12.5 PPB 14I02840	V807K24N						1	1	11/24/14 2353	"water IS/SURR14I25028 "
29	1124_24	STD VMS 15 PPB 14I02840	V807K24N						1	1	11/25/14 0012	"water IS/SURR14I25028 "
30	1124_25	STD VMS 17.5 PPB 14I02840	V807K24N						1	1	11/25/14 0032	"water IS/SURR14I25028 "

Environmental Science Corporation
12065 Lebanon Rd., Mt. Juliet, TN 37122

Injection Log

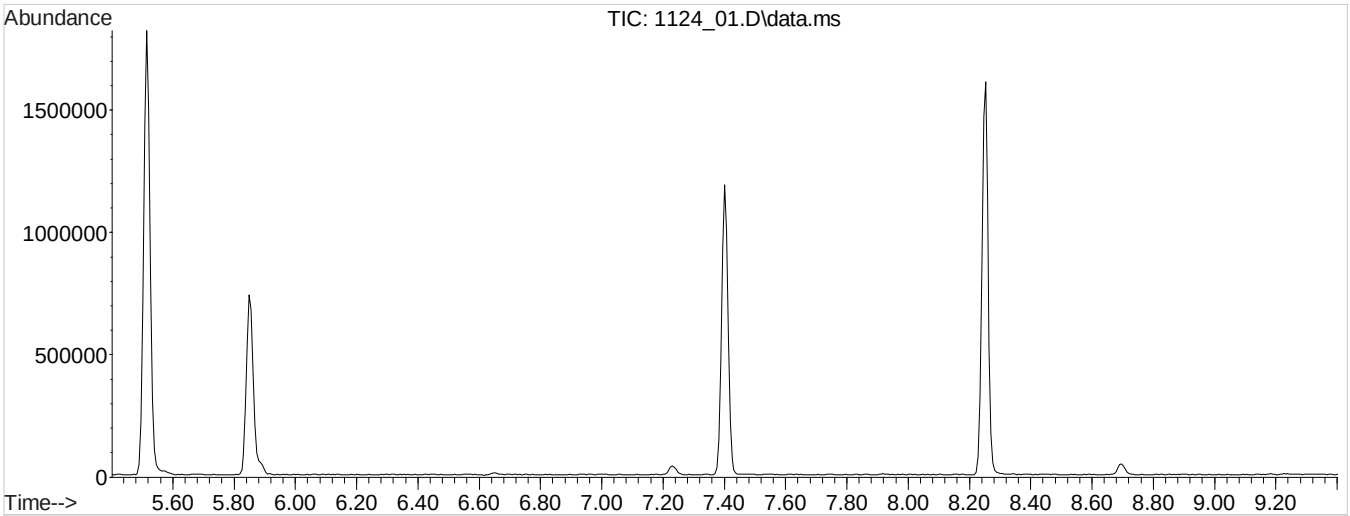
Instrument ID : VOCMS7
Computer Name : VOCCOMPK
Released By : Amy Green
Date Released : 11/25/2014 2:18:31 PM
Run ID : 112414
Signature : _____

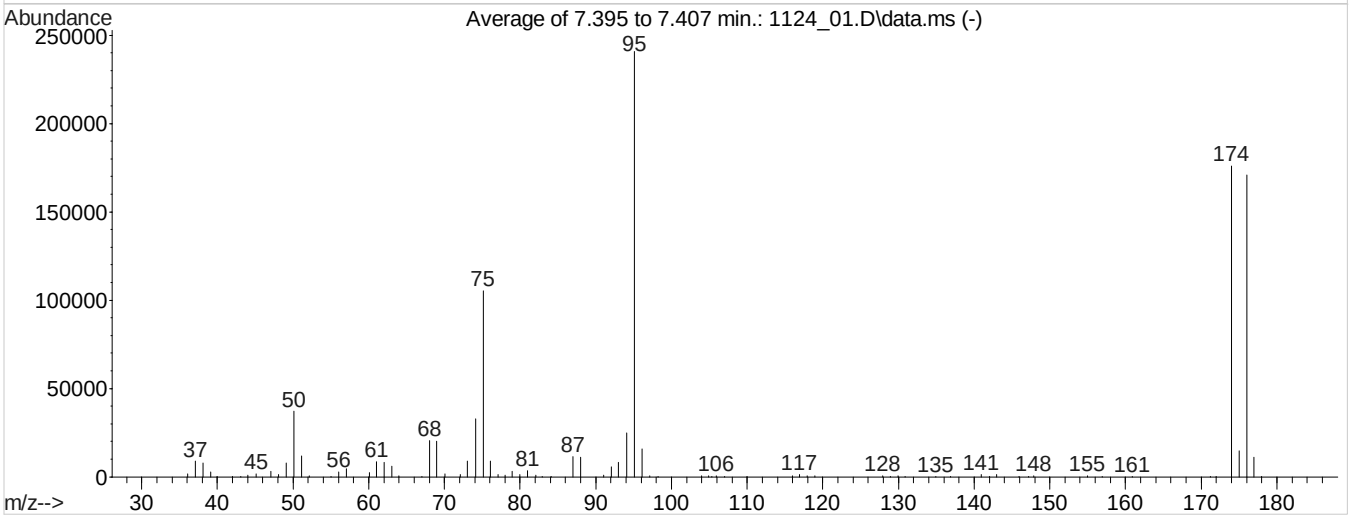
#	File ID	Sample ID	Method	WG	Product	Matrix	Account #	State	Dil.	Mult.	Injected	Misc.
31	1124_26	STD VMS 20 PPB 14I02840	V807K24N						1	1	11/25/14 0051	"water IS/SURR14I25028 "
32	1124_27	INSTBLK	V807K24N						1	1	11/25/14 0110	"water IS/SURR14I25028 "
33	1124_28	SSCV VMS 10A PPB 14I02844	V807K24N						1	1	11/25/14 0129	"water IS/SURR14I25028 "

Data Path : C:\msdchem\1\data\112414\
Data File : 1124 01.D
Acq On : 24 Nov 2014 4:49 pm
Operator : 644
Sample : INSTBLK VMS
Misc : water IS/SURR14I25028
ALS Vial : 1 Sample Multiplier: 1

Integration File: RTEINT.P

Method : C:\msdchem\1\methods\V807K24N.M
Title : Env. Science Corp. 8260B/6210D/624 - VOCMS07
Last Update : Tue Nov 25 14:00:56 2014





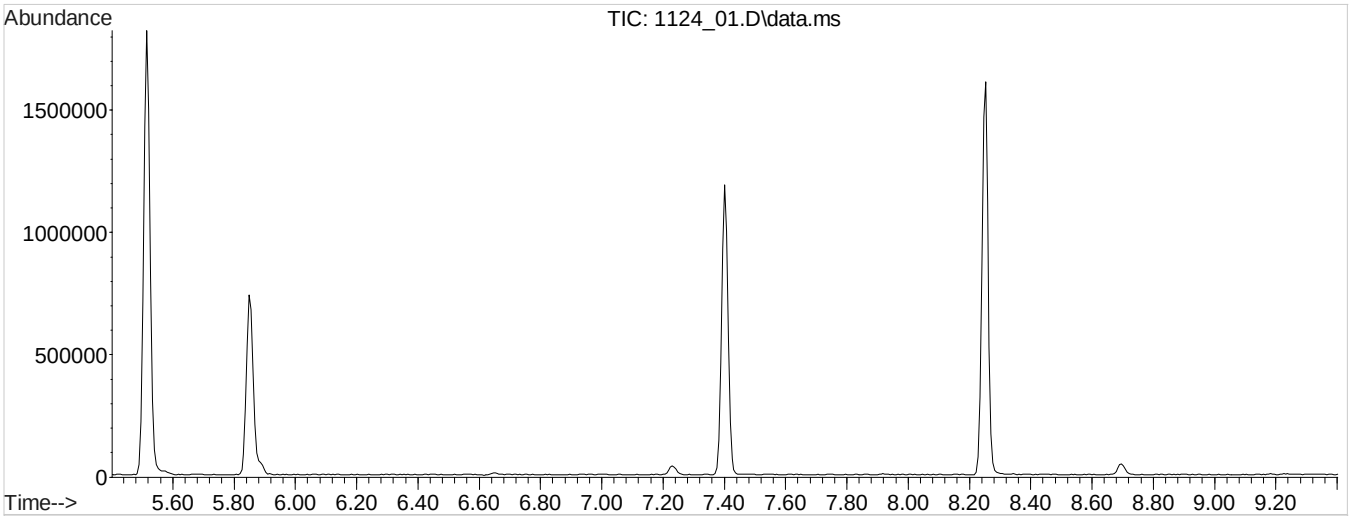
AutoFind: Scans 1202, 1203, 1204; Background Corrected with Scan 1195

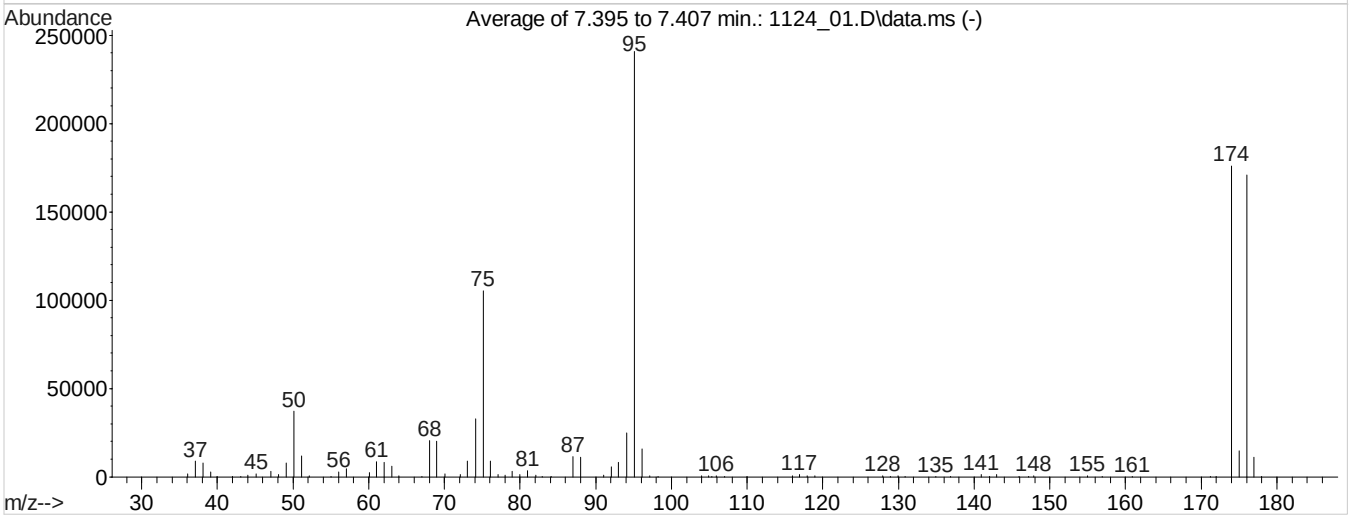
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	15.4	37093	PASS
75	95	30	60	43.8	105445	PASS
95	95	100	100	100.0	240875	PASS
96	95	5	9	6.6	15879	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	150	73.1	176107	PASS
175	174	5	9	8.3	14573	PASS
176	174	95	101	97.1	170965	PASS
177	176	5	9	6.6	11233	PASS

Data Path : C:\msdchem\1\data\112414\
Data File : 1124 01.D
Acq On : 24 Nov 2014 4:49 pm
Operator : 644
Sample : INSTBLK VMS
Misc : water IS/SURR14I25028
ALS Vial : 1 Sample Multiplier: 1

Integration File: RTEINT.P

Method : C:\msdchem\1\methods\V807K24N.M
Title : Env. Science Corp. 8260B/6210D/624 - VOCMS07
Last Update : Tue Nov 25 14:00:56 2014





AutoFind: Scans 1202, 1203, 1204; Background Corrected with Scan 1195

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	15.4	37093	PASS
75	95	30	60	43.8	105445	PASS
95	95	100	100	100.0	240875	PASS
96	95	5	9	6.6	15879	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	150	73.1	176107	PASS
175	174	5	9	8.3	14573	PASS
176	174	95	101	97.1	170965	PASS
177	176	5	9	6.6	11233	PASS

Environmental Science Corporation
12065 Lebanon Rd., Mt. Juliet, TN 37122

INITIAL CALIBRATION SUMMARY

Instrument ID	: VOCMS7	Review Method	: 6200	Released By	: Amy Green
Method	: V807K24N	Review Protocol	: SM 20th	Released On	: 11/25/2014 2:18:31 PM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- V807K24N -- ICal Updated Time: Tue Nov 25 14:00:56 2014

Parameter	.25	.5	1	2	5.0	10	25	40	75	100	200	1A	2.5A	5A	7.5A	10A	12A	15A	17A	20A	AvgRF	%RSD	COD	Cur
8260-PENTAFLUOROBENZENE																								
TPH (GC/MS) LOW FRACTION																					0	0	0	1
PROPENE				0.172	0.138	0.115	0.124	0.128	0.12	0.13	0.135										0.132596	13.24	0.132	1
DICHLORODIFLUOROMETHANE	0.63	0.614	0.631	0.584	0.477	0.521	0.542	0.574	0.559	0.575	0.589										0.572321	8.15	0.082	1
CHLOROMETHANE	0.662	0.686	0.756	0.692	0.614	0.641	0.682	0.703	0.671	0.7	0.714										0.683859	5.5	0.055	1
VINYL CHLORIDE	0.461	0.694	0.676	0.72	0.596	0.686	0.712	0.744	0.702	0.726	0.732										0.677257	12.1	0.121	1
1,3-BUTADIENE			0.616	0.515	0.451	0.48	0.487	0.501	0.469	0.476	0.46										0.495021	9.95	0.099	1
BROMOMETHANE				0.267	0.211	0.203	0.196	0.212	0.21	0.22	0.232										0.218857	10.2	0.102	1
CHLOROETHANE					0.106	0.113	0.106	0.099	0.079												0.100451	12.76	0.128	1
TRICHLOROFLUOROMETHANE	0.5	0.661	0.655	0.664	0.563	0.656	0.669	0.683	0.64	0.656	0.637										0.635003	8.56	0.086	1
DICHLOROFLUOROMETHANE	1.191	0.985	0.914	0.968	0.887	0.895	0.954	0.977	0.915	0.943	0.928										0.95967	8.69	0.087	1
ETHYL ETHER	0.373	0.473	0.439	0.458	0.415	0.434	0.446	0.462	0.429	0.436	0.44										0.436677	6.12	0.061	1
ACROLEIN			0.097	0.085	0.075	0.075	0.073	0.078	0.071	0.075	0.078										0.07849	10.21	0.102	1
1,1-DICHLOROETHENE	0.63	0.754	0.768	0.775	0.663	0.73	0.782	0.806	0.737	0.754	0.74										0.739946	6.98	0.07	1
1,1,2 -TRICHLOROTRIFLUOROETHANE	0.415	0.473	0.486	0.485	0.421	0.469	0.496	0.507	0.467	0.482	0.471										0.470187	6.04	0.06	1
ACETONE			0.18	0.169	0.139	0.139	0.132	0.144	0.126	0.129	0.137										0.143924	12.84	0.128	1
IODOMETHANE		0.481	0.477	0.483	0.449	0.51	0.575	0.613	0.609	0.645	0.657										0.549884	14.18	0.142	1
CARBON DISULFIDE	2.467	2.303	2.046	1.953	1.669	1.81	1.85	1.886	1.742	1.792	1.769										1.935129	12.78	0.128	1
METHYLENE CHLORIDE		0.721	0.676	0.633	0.54	0.547	0.563	0.583	0.55	0.564	0.571										0.594864	10.32	0.103	1
ACRYLONITRILE	0.197	0.205	0.217	0.218	0.194	0.194	0.193	0.207	0.187	0.193	0.201										0.200472	5.08	0.051	1
n-Hexane			0.726	0.631	0.502	0.523	0.538	0.531	0.49	0.499	0.49										0.547667	14.53	0.145	1
TRANS-1,2-DICHLOROETHENE	0.732	0.668	0.574	0.578	0.502	0.538	0.561	0.572	0.535	0.553	0.551										0.57858	11.32	0.113	1

PDF Generated On: 11/25/2014 - By: Amy Green

Environmental Science Corporation
12065 Lebanon Rd., Mt. Juliet, TN 37122

INITIAL CALIBRATION SUMMARY

Instrument ID	: VOCMS7	Review Method	: 6200	Released By	: Amy Green
Method	: V807K24N	Review Protocol	: SM 20th	Released On	: 11/25/2014 2:18:31 PM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- V807K24N -- ICal Updated Time: Tue Nov 25 14:00:56 2014

Parameter	.25	.5	1	2	5.0	10	25	40	75	100	200	1A	2.5A	5A	7.5A	10A	12A	15A	17A	20A	AvgRF	%RSD	COD	Cur
METHYL TERT-BUTYL ETHER	1.406	1.588	1.54	1.608	1.452	1.442	1.474	1.532	1.402	1.439	1.459										1.485626	4.75	0.047	1
1,1-DICHLOROETHANE	0.872	0.997	1.009	0.995	0.869	0.929	0.99	1.024	0.947	0.977	0.985										0.962997	5.48	0.055	1
VINYL ACETATE	0.889	0.99	0.95	0.93	0.911	0.88	0.859	0.925	0.797	0.886	0.833										0.895583	6.06	0.061	1
DI-ISOPROPYL ETHER	1.822	2.017	1.989	1.87	1.718	1.736	1.783	1.848	1.711	1.766	1.758										1.819844	5.71	0.057	1
2,2-Dichloropropane	0.785	0.811	0.893	0.827	0.73	0.757	0.796	0.804	0.745	0.777	0.77										0.790431	5.63	0.056	1
CIS-1,2-DICHLOROETHENE	0.695	0.65	0.641	0.633	0.544	0.584	0.602	0.614	0.573	0.595	0.6										0.611918	6.78	0.068	1
2-BUTANONE (MEK)	0.058	0.078	0.084	0.077	0.066	0.07	0.069	0.074	0.066	0.069	0.072										0.071185	10.04	0.1	1
BROMOCHLOROMETHANE	0.264	0.335	0.33	0.332	0.305	0.315	0.327	0.342	0.312	0.321	0.316										0.31816	6.64	0.066	1
TETRAHYDROFURAN					0.198	0.168	0.164	0.18	0.158	0.165	0.166										0.171174	7.77	0.078	1
CHLOROFORM	1.204	1.142	1.044	0.945	0.813	0.836	0.889	0.902	0.847	0.878	0.874										0.943129	13.79	0.138	1
DIBROMOFLUOROMETHANE	0.512	0.521	0.521	0.518	0.513	0.516	0.521	0.524	0.515	0.515	0.508										0.516717	0.91	0.009	1
1,1,1-TRICHLOROETHANE	1.01	0.892	0.809	0.745	0.635	0.692	0.707	0.732	0.684	0.706	0.711										0.756578	14.31	0.143	1
CARBON TETRACHLORIDE	0.518	0.595	0.572	0.581	0.473	0.528	0.567	0.583	0.554	0.577	0.562										0.555503	6.48	0.065	1
1,1-Dichloropropene	0.722	0.763	0.777	0.799	0.697	0.733	0.768	0.789	0.732	0.753	0.756										0.753563	4.05	0.041	1
2,2,4-TRIMETHYLPENTANE	2.595	2.66	2.593	2.562	2.085	2.365	2.36	2.394	2.216	2.282	2.269										2.398274	7.65	0.076	1
HEPTANE	1.251	1.06	1.096	0.963	0.861	0.899	0.935	0.95	0.883	0.898	0.881										0.970658	12.27	0.123	1
BENZENE	2.4	2.505	2.458	2.383	2.04	2.127	2.224	2.257	2.128	2.186	2.213										2.265619	6.64	0.066	1
1,2-DICHLOROETHANE	0.526	0.575	0.606	0.615	0.576	0.567	0.592	0.625	0.581	0.606	0.617										0.589747	4.87	0.049	1
8260-1,4-DIFLUOROBENZENE																								
TRICHLOROETHENE	0.285	0.303	0.294	0.306	0.256	0.275	0.288	0.291	0.274	0.286	0.284										0.285544	4.84	0.048	1
1,2-DICHLOROPROPANE	0.188	0.235	0.254	0.251	0.217	0.224	0.227	0.229	0.212	0.219	0.215										0.22446	8.22	0.082	1
DIBROMOMETHANE	0.142	0.198	0.17	0.171	0.158	0.157	0.167	0.171	0.162	0.17	0.17										0.16692	8.14	0.081	1

PDF Generated On: 11/25/2014 -- By: Amy Green

Environmental Science Corporation
12065 Lebanon Rd., Mt. Juliet, TN 37122

INITIAL CALIBRATION SUMMARY

Instrument ID	: VOCMS7	Review Method	: 6200	Released By	: Amy Green
Method	: V807K24N	Review Protocol	: SM 20th	Released On	: 11/25/2014 2:18:31 PM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- V807K24N -- ICal Updated Time: Tue Nov 25 14:00:56 2014

Parameter	.25	.5	1	2	5.0	10	25	40	75	100	200	1A	2.5A	5A	7.5A	10A	12A	15A	17A	20A	AvgRF	%RSD	COD	Cur
BROMODICHLOROMETHANE		0.428	0.472	0.426	0.363	0.361	0.366	0.376	0.346	0.362	0.36										0.386048	10.69	0.107	1
a,a,a-Trifluorotoluene	0.551	0.553	0.546	0.541	0.532	0.535	0.529	0.519	0.506	0.512	0.515										0.530836	3.06	0.031	1
-CHLOROETHYL VINYL ETHER					0.002	0.002	0.001	0.001	0.001												0.001361	25.18	0.995	0
CIS-1,3-DICHLOROPROPENE	0.517	0.535	0.513	0.534	0.486	0.487	0.506	0.519	0.479	0.502	0.503										0.507447	3.65	0.036	1
-METHYL-2-PENTANONE (MIBK)	0.115	0.14	0.124	0.129	0.117	0.117	0.116	0.124	0.11	0.115	0.116										0.120179	6.9	0.069	1
TOLUENE-D8	1.228	1.235	1.222	1.223	1.206	1.198	1.201	1.185	1.167	1.186	1.225										1.206827	1.79	0.018	1
TOLUENE		1.827	1.494	1.404	1.181	1.22	1.259	1.262	1.189	1.234	1.221										1.329238	15.13	0.151	1
TRANS-1,3-DICHLOROPROPENE		0.122	0.12	0.109	0.107	0.11	0.111	0.111	0.101	0.105	0.105										0.109978	6.02	0.06	1
8260-2-BROMO-1 -CHLOROPROPANE																								
1,1,2-TRICHLOROETHANE		2.144	1.803	1.727	1.501	1.486	1.576	1.557	1.463	1.504	1.486										1.624665	13.19	0.132	1
TETRACHLOROETHENE	1.424	1.489	1.259	1.329	1.151	1.242	1.294	1.259	1.186	1.213	1.153										1.272628	8.42	0.084	1
1,3-Dichloropropane	3.291	3.135	2.935	2.779	2.579	2.606	2.682	2.716	2.526	2.614	2.541										2.76407	9.17	0.092	1
2-HEXANONE	0.745	0.807	0.806	0.831	0.717	0.715	0.727	0.768	0.691	0.714	0.706										0.747829	6.38	0.064	1
CHLORODIBROMOMETHANE	1.405	1.502	1.503	1.52	1.362	1.447	1.521	1.568	1.483	1.563	1.535										1.491787	4.3	0.043	1
1,2-DIBROMOETHANE	1.383	1.636	1.653	1.668	1.552	1.52	1.573	1.611	1.51	1.58	1.567										1.568449	5.1	0.051	1
CHLOROBENZENE	4.869	5.472	5.215	5.123	4.464	4.615	4.921	4.765	4.495	4.612	4.377										4.811573	7.21	0.072	1
1,1,1,2-TETRACHLOROETHANE	1.312	1.466	1.51	1.454	1.332	1.357	1.418	1.371	1.304	1.365	1.34										1.384518	4.91	0.049	1
ETHYLBENZENE	2.939	2.877	2.844	2.827	2.463	2.739	2.803	2.73	2.595	2.645	2.503										2.724073	5.7	0.057	1
M&P-XYLENE	4.211	4.059	3.664	3.553	3.162	3.264	3.386	3.297	3.126	3.213	3.036										3.451851	11.16	0.112	1
O-XYLENE	3.575	3.779	3.588	3.482	3.098	3.187	3.363	3.332	3.168	3.289	3.174										3.366873	6.4	0.064	1
STYRENE	5.215	5.913	5.775	5.412	4.979	5.208	5.488	5.427	5.131	5.348	5.169										5.36964	5.2	0.052	1
Bromoform	0.655	1.067	0.857	0.999	0.907	0.896	0.923	0.943	0.896	0.94	0.968										0.914	11.27	0.113	1

PDF Generated On: 11/25/2014 -- By: Amy Green

Environmental Science Corporation
12065 Lebanon Rd., Mt. Juliet, TN 37122

INITIAL CALIBRATION SUMMARY

Instrument ID	: VOCMS7	Review Method	: 6200	Released By	: Amy Green
Method	: V807K24N	Review Protocol	: SM 20th	Released On	: 11/25/2014 2:18:31 PM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- V807K24N -- ICal Updated Time: Tue Nov 25 14:00:56 2014

Parameter	.25	.5	1	2	5.0	10	25	40	75	100	200	1A	2.5A	5A	7.5A	10A	12A	15A	17A	20A	AvgRF	%RSD	COD	Cur
Isopropylbenzene	8.619	9.164	9.042	8.68	7.722	8.11	8.52	8.428	7.952	8.251	7.881										8.397252	5.55	0.056	1
4-BROMOFLUOROBENZENE	2.861	2.76	2.798	2.736	2.747	2.742	2.818	2.787	2.831	2.823	2.814										2.792403	1.48	0.015	1
Bromobenzene	4.128	4.298	3.719	3.724	3.38	3.439	3.537	3.482	3.281	3.372	3.206										3.597081	9.62	0.096	1
1,1,2,2-TETRACHLOROETHANE	2.881	2.756	2.573	2.499	2.146	2.096	2.126	2.192	2.016	2.107	2.118										2.319035	13.03	0.13	1
1,2,3-TRICHLOROPROPANE		0.628	0.628	0.527	0.53	0.505	0.5	0.513	0.476	0.502	0.505										0.531509	9.99	0.1	1
TRANS-1,4-DICHLORO-2-BUTENE		0.617	0.541	0.603	0.534	0.501	0.545	0.55	0.524	0.533	0.549										0.549722	6.37	0.064	1
n-Propylbenzene	10.73	10.71	10.67	10.41	9.139999	9.55	10.21	9.99	9.53	9.75	9.21										9.98957	5.95	0.059	1
4-ETHYLTOLUENE	9.824	9.164	8.804	8.695	7.499	7.8	8.222	8.138	7.707	7.946	7.537										8.303356	8.9	0.089	1
2-Chlorotoluene	1.982	2.039	2.087	1.993	1.659	1.726	1.819	1.799	1.7	1.753	1.676										1.839298	8.52	0.085	1
4-Chlorotoluene	7.156	6.846	6.481	6.276	5.566	5.758	6.078	6.043	5.743	5.956	5.761										6.151283	8.11	0.081	1
1,3,5-Trimethylbenzene	7.485	7.719	7.177	7.241	6.104	6.475	6.76	6.643	6.271	6.449	6.036										6.760126	8.41	0.084	1
tert-Butylbenzene	5.483	5.847	6.164	5.93	5.199	5.484	5.743	5.776	5.504	5.672	5.376										5.652434	4.88	0.049	1
1,2,4-Trimethylbenzene	8.693	8.139	7.595	7.338	6.436	6.562	6.789	6.737	6.44	6.624	6.334										7.062626	11.07	0.111	1
sec-Butylbenzene	9.5	10.14	9.59	9.8	8.49	8.79	9.3	9.2	8.77	9.08	8.58										9.20482	5.7	0.057	1
1,3-DICHLOROBENZENE	3.891	3.852	3.906	3.734	3.43	3.479	3.666	3.651	3.521	3.642	3.508										3.661894	4.61	0.046	1
p-Isopropyltoluene	7.523	8.022	7.986	7.724	6.767	7.071	7.334	7.33	6.953	7.109	6.623										7.312794	6.37	0.064	1
DICYCLOPENTADIENE	8.165	8.871	8.771	8.972	7.753	8.028	8.467	8.264	7.728	7.925	7.388										8.211851	6.25	0.063	1
8260-1,4-DICHLOROBENZENE-D4																								
1,4-DICHLOROBENZENE	1.298	1.313	1.344	1.309	1.176	1.215	1.253	1.281	1.193	1.243	1.189										1.255794	4.56	0.046	1
1,2,3-TRIMETHYLBENZENE	2.92	2.726	2.634	2.56	2.268	2.272	2.359	2.407	2.211	2.301	2.198										2.441503	9.68	0.097	1
1,2-DICHLOROBENZENE	1.23	1.304	1.29	1.242	1.176	1.168	1.221	1.279	1.177	1.236	1.213										1.230559	3.78	0.038	1
n-Butylbenzene	2.635	2.857	2.739	2.663	2.355	2.418	2.559	2.63	2.418	2.508	2.342										2.556648	6.48	0.065	1

PDF Generated On: 11/25/2014 -- By: Amy Green

Environmental Science Corporation
12065 Lebanon Rd., Mt. Juliet, TN 37122

INITIAL CALIBRATION SUMMARY

Instrument ID	: VOCMS7	Review Method	: 6200	Released By	: Amy Green
Method	: V807K24N	Review Protocol	: SM 20th	Released On	: 11/25/2014 2:18:31 PM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- V807K24N -- ICal Updated Time: Tue Nov 25 14:00:56 2014

Parameter	.25	.5	1	2	5.0	10	25	40	75	100	200	1A	2.5A	5A	7.5A	10A	12A	15A	17A	20A	AvgRF	%RSD	COD	Cur
1,2-Dibromo-3-chloropropane		0.124	0.133	0.148	0.142	0.146	0.149	0.171	0.151	0.159	0.167										0.14906	9.59	0.096	1
1,2,4-Trichlorobenzene	0.721	0.896	0.797	0.813	0.732	0.724	0.767	0.82	0.733	0.758	0.686										0.767723	7.77	0.078	1
HEXACHLORO-1,3-BUTADIENE	0.3	0.426	0.401	0.362	0.329	0.353	0.365	0.396	0.36	0.368	0.35										0.364552	9.47	0.095	1
Naphthalene	2.305	2.396	2.297	2.305	2.12	2.105	2.162	2.403	2.14	2.218	2.115										2.233375	5.05	0.05	1
1,2,3-Trichlorobenzene	0.646	0.777	0.765	0.702	0.679	0.644	0.666	0.733	0.652	0.674	0.625										0.687567	7.38	0.074	1
1-Methylnaphthalene	1.167	1.071	0.986	1.017	0.863	0.907	0.942	1.073	0.946	0.99	0.899										0.987229	9.11	0.091	1
2-Methylnaphthalene	0.676	0.826	0.8	0.821	0.774	0.739	0.767	0.868	0.765	0.792	0.709										0.776025	7.03	0.07	1
AP9-PENTAFLUOROBENZENE																								
ETHANOL												0.009	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.007935	4.29	0.043	1
Bromoethane												0.342	0.298	0.31	0.318	0.329	0.317	0.311	0.31	0.318	0.31706	3.95	0.04	1
2-PROPANOL												0.059	0.046	0.043	0.041	0.043	0.042	0.042	0.041	0.039	0.044106	13.54	0.135	1
Methyl Acetate												0.336	0.346	0.33	0.329	0.327	0.333	0.332	0.318	0.311	0.329024	3.06	0.031	1
ACETONITRILE												0.067	0.069	0.066	0.067	0.067	0.069	0.069	0.065	0.065	0.067276	2.3	0.023	1
ALLYL CHLORIDE												0.255	0.261	0.249	0.252	0.251	0.247	0.251	0.244	0.244	0.250318	2.19	0.022	1
tert-BUTYL ALCOHOL												0.097	0.1	0.092	0.094	0.09	0.094	0.09	0.086	0.083	0.091829	5.62	0.056	1
chloroprene												0.441	0.464	0.449	0.446	0.437	0.441	0.437	0.427	0.424	0.4408	2.68	0.027	1
ETHYL TERT-BUTYL ETHER												1.568	1.598	1.566	1.558	1.523	1.556	1.551	1.521	1.506	1.549674	1.83	0.018	1
PROPIONITRILE												0.073	0.074	0.071	0.07	0.069	0.07	0.07	0.067	0.065	0.069822	3.71	0.037	1
Ethyl Acetate												0.51	0.517	0.49	0.487	0.486	0.493	0.496	0.475	0.465	0.491176	3.28	0.033	1
METHACRYLONITRILE												0.221	0.223	0.21	0.208	0.203	0.205	0.205	0.196	0.193	0.207153	4.86	0.049	1
Cyclohexane												0.669	0.643	0.633	0.635	0.636	0.639	0.634	0.622	0.629	0.6377	2.05	0.02	1
tert-butyl formate												0.454	0.46	0.451	0.446	0.446	0.446	0.445	0.427	0.429	0.444887	2.41	0.024	1
ISOBUTANOL												0.032	0.031	0.029	0.03	0.029	0.03	0.03	0.029	0.028	0.029901	3.33	0.033	1

PDF Generated On: 11/25/2014 -- By: Amy Green

Environmental Science Corporation
12065 Lebanon Rd., Mt. Juliet, TN 37122

INITIAL CALIBRATION SUMMARY

Instrument ID	: VOCMS7	Review Method	: 6200	Released By	: Amy Green
Method	: V807K24N	Review Protocol	: SM 20th	Released On	: 11/25/2014 2:18:31 PM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- V807K24N -- ICal Updated Time: Tue Nov 25 14:00:56 2014

Parameter	.25	.5	1	2	5.0	10	25	40	75	100	200	1A	2.5A	5A	7.5A	10A	12A	15A	17A	20A	AvgRF	%RSD	COD	Cur
-Amyl Alcohol												0.057	0.056	0.051	0.054	0.053	0.059	0.056	0.053	0.049	0.05406	5.62	0.056	1
TERT-AMYL METHYL ETHER												1.442	1.425	1.367	1.321	1.285	1.293	1.271	1.261	1.237	1.322539	5.53	0.055	1
AP9-1,4-DIFLUOROBENZENE																								
N-BUTANOL												0.01	0.011	0.01	0.01	0.01	0.011	0.01	0.01	0.01	0.010227	2.62	0.026	1
Methyl Cyclohexane												0.832	0.582	0.493	0.476	0.452	0.439	0.437	0.43	0.43	0.507748	25.75	1	0
-nitropropane												0.102	0.073	0.073	0.073	0.069	0.072	0.073	0.072	0.07	0.075143	13.57	0.136	1
METHYL METHACRYLATE												0.25	0.237	0.235	0.232	0.226	0.231	0.234	0.227	0.227	0.233314	3.11	0.031	1
1,4-DIOXANE												0.003	0.003	0.004	0.004	0.003	0.004	0.004	0.004	0.003	0.003514	3.84	0.038	1
n-octane												0.267	0.245	0.255	0.241	0.236	0.241	0.238	0.236	0.238	0.244017	4.3	0.043	1
3,3-DIMETHYL-1-BUTANOL												0.033	0.033	0.031	0.029	0.031	0.033	0.032	0.032	0.032	0.031897	4.18	0.042	1
AP9-2-BROMO-1 -CHLOROPROPANE																								
ETHYL METHACRYLATE												2.341	2.339	2.237	2.228	2.255	2.239	2.252	2.223	2.239	2.261416	2.02	0.02	1
CIS-1,4-DICHLORO-2-BUTENE												0.509	0.52	0.505	0.503	0.529	0.517	0.527	0.52	0.519	0.51655	1.72	0.017	1
Cyclohexanone																					0	0	0	1
PENTACHLOROETHANE												1.152	1.092	1.034	1.082	1.073	1.044	1.081	1.048	1.092	1.077488	3.26	0.033	1
Hexachloroethane												1.176	1.235	1.276	1.265	1.272	1.25	1.29	1.311	1.345	1.268945	3.76	0.038	1
AP9-1,4-DICHLOROBENZENE-D4																								

PDF Generated On: 11/25/2014 - By: Amy Green

Environmental Science Corporation
12065 Lebanon Rd., Mt. Juliet, TN 37122

INITIAL CALIBRATION SUMMARY

Instrument ID	: VOCMS7	Review Method	: 601-602	Released By	: Amy Green
Method	: V807K24N	Review Protocol	: EPA	Released On	: 11/25/2014 2:15:40 PM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- V807K24N -- ICal Updated Time: Tue Nov 25 14:00:56 2014

Parameter	.25	.5	1	2	5.0	10	25	40	75	100	200	1A	2.5A	5A	7.5A	10A	12A	15A	17A	20A	AvgRF	%RSD	COD	Cur
8260-PENTAFLUOROBENZENE																								
TPH (GC/MS) LOW FRACTION																					0	0	0	1
PROPENE				0.172	0.138	0.115	0.124	0.128	0.12	0.13	0.135										0.132596	13.24	0.132	1
DICHLORODIFLUOROMETHANE	0.63	0.614	0.631	0.584	0.477	0.521	0.542	0.574	0.559	0.575	0.589										0.572321	8.15	0.082	1
CHLOROMETHANE	0.662	0.686	0.756	0.692	0.614	0.641	0.682	0.703	0.671	0.7	0.714										0.683859	5.5	0.055	1
VINYL CHLORIDE	0.461	0.694	0.676	0.72	0.596	0.686	0.712	0.744	0.702	0.726	0.732										0.677257	12.1	0.121	1
1,3-BUTADIENE			0.616	0.515	0.451	0.48	0.487	0.501	0.469	0.476	0.46										0.495021	9.95	0.099	1
BROMOMETHANE				0.267	0.211	0.203	0.196	0.212	0.21	0.22	0.232										0.218857	10.2	0.102	1
CHLOROETHANE					0.106	0.113	0.106	0.099	0.079												0.100451	12.76	0.128	1
TRICHLOROFLUOROMETHANE	0.5	0.661	0.655	0.664	0.563	0.656	0.669	0.683	0.64	0.656	0.637										0.635003	8.56	0.086	1
DICHLOROFLUOROMETHANE	1.191	0.985	0.914	0.968	0.887	0.895	0.954	0.977	0.915	0.943	0.928										0.95967	8.69	0.087	1
ETHYL ETHER	0.373	0.473	0.439	0.458	0.415	0.434	0.446	0.462	0.429	0.436	0.44										0.436677	6.12	0.061	1
ACROLEIN			0.097	0.085	0.075	0.075	0.073	0.078	0.071	0.075	0.078										0.07849	10.21	0.102	1
1,1-DICHLOROETHENE	0.63	0.754	0.768	0.775	0.663	0.73	0.782	0.806	0.737	0.754	0.74										0.739946	6.98	0.07	1
1,1,2 -TRICHLOROTRIFLUOROETHANE	0.415	0.473	0.486	0.485	0.421	0.469	0.496	0.507	0.467	0.482	0.471										0.470187	6.04	0.06	1
ACETONE			0.18	0.169	0.139	0.139	0.132	0.144	0.126	0.129	0.137										0.143924	12.84	0.128	1
IODOMETHANE		0.481	0.477	0.483	0.449	0.51	0.575	0.613	0.609	0.645	0.657										0.549884	14.18	0.142	1
CARBON DISULFIDE	2.467	2.303	2.046	1.953	1.669	1.81	1.85	1.886	1.742	1.792	1.769										1.935129	12.78	0.128	1
METHYLENE CHLORIDE		0.721	0.676	0.633	0.54	0.547	0.563	0.583	0.55	0.564	0.571										0.594864	10.32	0.103	1
ACRYLONITRILE	0.197	0.205	0.217	0.218	0.194	0.194	0.193	0.207	0.187	0.193	0.201										0.200472	5.08	0.051	1
n-Hexane			0.726	0.631	0.502	0.523	0.538	0.531	0.49	0.499	0.49										0.547667	14.53	0.145	1
TRANS-1,2-DICHLOROETHENE	0.732	0.668	0.574	0.578	0.502	0.538	0.561	0.572	0.535	0.553	0.551										0.57858	11.32	0.113	1

PDF Generated On: 11/25/2014 - By: Amy Green

Environmental Science Corporation
12065 Lebanon Rd., Mt. Juliet, TN 37122

INITIAL CALIBRATION SUMMARY

Instrument ID	: VOCMS7	Review Method	: 601-602	Released By	: Amy Green
Method	: V807K24N	Review Protocol	: EPA	Released On	: 11/25/2014 2:15:40 PM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- V807K24N -- ICal Updated Time: Tue Nov 25 14:00:56 2014

Parameter	.25	.5	1	2	5.0	10	25	40	75	100	200	1A	2.5A	5A	7.5A	10A	12A	15A	17A	20A	AvgRF	%RSD	COD	Cur
METHYL TERT-BUTYL ETHER	1.406	1.588	1.54	1.608	1.452	1.442	1.474	1.532	1.402	1.439	1.459										1.485626	4.75	0.047	1
,1-DICHLOROETHANE	0.872	0.997	1.009	0.995	0.869	0.929	0.99	1.024	0.947	0.977	0.985										0.962997	5.48	0.055	1
VINYL ACETATE	0.889	0.99	0.95	0.93	0.911	0.88	0.859	0.925	0.797	0.886	0.833										0.895583	6.06	0.061	1
DI-ISOPROPYL ETHER	1.822	2.017	1.989	1.87	1.718	1.736	1.783	1.848	1.711	1.766	1.758										1.819844	5.71	0.057	1
2,2-Dichloropropane	0.785	0.811	0.893	0.827	0.73	0.757	0.796	0.804	0.745	0.777	0.77										0.790431	5.63	0.056	1
CIS-1,2-DICHLOROETHENE	0.695	0.65	0.641	0.633	0.544	0.584	0.602	0.614	0.573	0.595	0.6										0.611918	6.78	0.068	1
-BUTANONE (MEK)	0.058	0.078	0.084	0.077	0.066	0.07	0.069	0.074	0.066	0.069	0.072										0.071185	10.04	0.1	1
BROMOCHLOROMETHANE	0.264	0.335	0.33	0.332	0.305	0.315	0.327	0.342	0.312	0.321	0.316										0.31816	6.64	0.066	1
TETRAHYDROFURAN					0.198	0.168	0.164	0.18	0.158	0.165	0.166										0.171174	7.77	0.078	1
CHLOROFORM	1.204	1.142	1.044	0.945	0.813	0.836	0.889	0.902	0.847	0.878	0.874										0.943129	13.79	0.138	1
DIBROMOFLUOROMETHANE	0.512	0.521	0.521	0.518	0.513	0.516	0.521	0.524	0.515	0.515	0.508										0.516717	0.91	0.009	1
1,1,1-TRICHLOROETHANE	1.01	0.892	0.809	0.745	0.635	0.692	0.707	0.732	0.684	0.706	0.711										0.756578	14.31	0.143	1
CARBON TETRACHLORIDE	0.518	0.595	0.572	0.581	0.473	0.528	0.567	0.583	0.554	0.577	0.562										0.555503	6.48	0.065	1
1,1-Dichloropropene	0.722	0.763	0.777	0.799	0.697	0.733	0.768	0.789	0.732	0.753	0.756										0.753563	4.05	0.041	1
2,2,4-TRIMETHYLPENTANE	2.595	2.66	2.593	2.562	2.085	2.365	2.36	2.394	2.216	2.282	2.269										2.398274	7.65	0.076	1
HEPTANE	1.251	1.06	1.096	0.963	0.861	0.899	0.935	0.95	0.883	0.898	0.881										0.970658	12.27	0.123	1
BENZENE	2.4	2.505	2.458	2.383	2.04	2.127	2.224	2.257	2.128	2.186	2.213										2.265619	6.64	0.066	1
1,2-DICHLOROETHANE	0.526	0.575	0.606	0.615	0.576	0.567	0.592	0.625	0.581	0.606	0.617										0.589747	4.87	0.049	1
8260-1,4-DIFLUOROBENZENE																								
TRICHLOROETHENE	0.285	0.303	0.294	0.306	0.256	0.275	0.288	0.291	0.274	0.286	0.284										0.285544	4.84	0.048	1
,2-DICHLOROPROPANE	0.188	0.235	0.254	0.251	0.217	0.224	0.227	0.229	0.212	0.219	0.215										0.22446	8.22	0.082	1
DIBROMOMETHANE	0.142	0.198	0.17	0.171	0.158	0.157	0.167	0.171	0.162	0.17	0.17										0.16692	8.14	0.081	1

PDF Generated On: 11/25/2017 -- By: Amy Green

Environmental Science Corporation
12065 Lebanon Rd., Mt. Juliet, TN 37122

INITIAL CALIBRATION SUMMARY

Instrument ID	: VOCMS7	Review Method	: 601-602	Released By	: Amy Green
Method	: V807K24N	Review Protocol	: EPA	Released On	: 11/25/2014 2:15:40 PM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- V807K24N -- ICal Updated Time: Tue Nov 25 14:00:56 2014

Parameter	.25	.5	1	2	5.0	10	25	40	75	100	200	1A	2.5A	5A	7.5A	10A	12A	15A	17A	20A	AvgRF	%RSD	COD	Cur
BROMODICHLOROMETHANE		0.428	0.472	0.426	0.363	0.361	0.366	0.376	0.346	0.362	0.36										0.386048	10.69	0.107	1
a,a,a-Trifluorotoluene	0.551	0.553	0.546	0.541	0.532	0.535	0.529	0.519	0.506	0.512	0.515										0.530836	3.06	0.031	1
-CHLOROETHYL VINYL ETHER					0.002	0.002	0.001	0.001	0.001												0.001361	25.18	0.995	0
CIS-1,3-DICHLOROPROPENE	0.517	0.535	0.513	0.534	0.486	0.487	0.506	0.519	0.479	0.502	0.503										0.507447	3.65	0.036	1
-METHYL-2-PENTANONE (MIBK)	0.115	0.14	0.124	0.129	0.117	0.117	0.116	0.124	0.11	0.115	0.116										0.120179	6.9	0.069	1
TOLUENE-D8	1.228	1.235	1.222	1.223	1.206	1.198	1.201	1.185	1.167	1.186	1.225										1.206827	1.79	0.018	1
TOLUENE		1.827	1.494	1.404	1.181	1.22	1.259	1.262	1.189	1.234	1.221										1.329238	15.13	0.151	1
TRANS-1,3-DICHLOROPROPENE		0.122	0.12	0.109	0.107	0.11	0.111	0.111	0.101	0.105	0.105										0.109978	6.02	0.06	1
8260-2-BROMO-1 -CHLOROPROPANE																								
1,1,2-TRICHLOROETHANE		2.144	1.803	1.727	1.501	1.486	1.576	1.557	1.463	1.504	1.486										1.624665	13.19	0.132	1
TETRACHLOROETHENE	1.424	1.489	1.259	1.329	1.151	1.242	1.294	1.259	1.186	1.213	1.153										1.272628	8.42	0.084	1
1,3-Dichloropropane	3.291	3.135	2.935	2.779	2.579	2.606	2.682	2.716	2.526	2.614	2.541										2.76407	9.17	0.092	1
2-HEXANONE	0.745	0.807	0.806	0.831	0.717	0.715	0.727	0.768	0.691	0.714	0.706										0.747829	6.38	0.064	1
CHLORODIBROMOMETHANE	1.405	1.502	1.503	1.52	1.362	1.447	1.521	1.568	1.483	1.563	1.535										1.491787	4.3	0.043	1
1,2-DIBROMOETHANE	1.383	1.636	1.653	1.668	1.552	1.52	1.573	1.611	1.51	1.58	1.567										1.568449	5.1	0.051	1
CHLOROBENZENE	4.869	5.472	5.215	5.123	4.464	4.615	4.921	4.765	4.495	4.612	4.377										4.811573	7.21	0.072	1
1,1,1,2-TETRACHLOROETHANE	1.312	1.466	1.51	1.454	1.332	1.357	1.418	1.371	1.304	1.365	1.34										1.384518	4.91	0.049	1
ETHYLBENZENE	2.939	2.877	2.844	2.827	2.463	2.739	2.803	2.73	2.595	2.645	2.503										2.724073	5.7	0.057	1
M&P-XYLENE	4.211	4.059	3.664	3.553	3.162	3.264	3.386	3.297	3.126	3.213	3.036										3.451851	11.16	0.112	1
O-XYLENE	3.575	3.779	3.588	3.482	3.098	3.187	3.363	3.332	3.168	3.289	3.174										3.366873	6.4	0.064	1
STYRENE	5.215	5.913	5.775	5.412	4.979	5.208	5.488	5.427	5.131	5.348	5.169										5.36964	5.2	0.052	1
Bromoform	0.655	1.067	0.857	0.999	0.907	0.896	0.923	0.943	0.896	0.94	0.968										0.914	11.27	0.113	1

PDF Generated On: 11/25/2014 -- By: Amy Green

Environmental Science Corporation
12065 Lebanon Rd., Mt. Juliet, TN 37122

INITIAL CALIBRATION SUMMARY

Instrument ID	: VOCMS7	Review Method	: 601-602	Released By	: Amy Green
Method	: V807K24N	Review Protocol	: EPA	Released On	: 11/25/2014 2:15:40 PM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- V807K24N -- ICal Updated Time: Tue Nov 25 14:00:56 2014

Parameter	.25	.5	1	2	5.0	10	25	40	75	100	200	1A	2.5A	5A	7.5A	10A	12A	15A	17A	20A	AvgRF	%RSD	COD	Cur
Isopropylbenzene	8.619	9.164	9.042	8.68	7.722	8.11	8.52	8.428	7.952	8.251	7.881										8.397252	5.55	0.056	1
4-BROMOFLUOROBENZENE	2.861	2.76	2.798	2.736	2.747	2.742	2.818	2.787	2.831	2.823	2.814										2.792403	1.48	0.015	1
Bromobenzene	4.128	4.298	3.719	3.724	3.38	3.439	3.537	3.482	3.281	3.372	3.206										3.597081	9.62	0.096	1
1,1,2,2-TETRACHLOROETHANE	2.881	2.756	2.573	2.499	2.146	2.096	2.126	2.192	2.016	2.107	2.118										2.319035	13.03	0.13	1
1,2,3-TRICHLOROPROPANE		0.628	0.628	0.527	0.53	0.505	0.5	0.513	0.476	0.502	0.505										0.531509	9.99	0.1	1
TRANS-1,4-DICHLORO-2-BUTENE		0.617	0.541	0.603	0.534	0.501	0.545	0.55	0.524	0.533	0.549										0.549722	6.37	0.064	1
n-Propylbenzene	10.73	10.71	10.67	10.41	9.139999	9.55	10.21	9.99	9.53	9.75	9.21										9.98957	5.95	0.059	1
4-ETHYLTOLUENE	9.824	9.164	8.804	8.695	7.499	7.8	8.222	8.138	7.707	7.946	7.537										8.303356	8.9	0.089	1
2-Chlorotoluene	1.982	2.039	2.087	1.993	1.659	1.726	1.819	1.799	1.7	1.753	1.676										1.839298	8.52	0.085	1
4-Chlorotoluene	7.156	6.846	6.481	6.276	5.566	5.758	6.078	6.043	5.743	5.956	5.761										6.151283	8.11	0.081	1
1,3,5-Trimethylbenzene	7.485	7.719	7.177	7.241	6.104	6.475	6.76	6.643	6.271	6.449	6.036										6.760126	8.41	0.084	1
tert-Butylbenzene	5.483	5.847	6.164	5.93	5.199	5.484	5.743	5.776	5.504	5.672	5.376										5.652434	4.88	0.049	1
1,2,4-Trimethylbenzene	8.693	8.139	7.595	7.338	6.436	6.562	6.789	6.737	6.44	6.624	6.334										7.062626	11.07	0.111	1
sec-Butylbenzene	9.5	10.14	9.59	9.8	8.49	8.79	9.3	9.2	8.77	9.08	8.58										9.20482	5.7	0.057	1
1,3-DICHLOROBENZENE	3.891	3.852	3.906	3.734	3.43	3.479	3.666	3.651	3.521	3.642	3.508										3.661894	4.61	0.046	1
p-Isopropyltoluene	7.523	8.022	7.986	7.724	6.767	7.071	7.334	7.33	6.953	7.109	6.623										7.312794	6.37	0.064	1
DICYCLOPENTADIENE	8.165	8.871	8.771	8.972	7.753	8.028	8.467	8.264	7.728	7.925	7.388										8.211851	6.25	0.063	1
8260-1,4-DICHLOROBENZENE-D4																								
1,4-DICHLOROBENZENE	1.298	1.313	1.344	1.309	1.176	1.215	1.253	1.281	1.193	1.243	1.189										1.255794	4.56	0.046	1
1,2,3-TRIMETHYLBENZENE	2.92	2.726	2.634	2.56	2.268	2.272	2.359	2.407	2.211	2.301	2.198										2.441503	9.68	0.097	1
1,2-DICHLOROBENZENE	1.23	1.304	1.29	1.242	1.176	1.168	1.221	1.279	1.177	1.236	1.213										1.230559	3.78	0.038	1
n-Butylbenzene	2.635	2.857	2.739	2.663	2.355	2.418	2.559	2.63	2.418	2.508	2.342										2.556648	6.48	0.065	1

PDF Generated On: 11/25/2014 -- By: Amy Green

Environmental Science Corporation
12065 Lebanon Rd., Mt. Juliet, TN 37122

INITIAL CALIBRATION SUMMARY

Instrument ID	: VOCMS7	Review Method	: 601-602	Released By	: Amy Green
Method	: V807K24N	Review Protocol	: EPA	Released On	: 11/25/2014 2:15:40 PM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- V807K24N -- ICal Updated Time: Tue Nov 25 14:00:56 2014

Parameter	.25	.5	1	2	5.0	10	25	40	75	100	200	1A	2.5A	5A	7.5A	10A	12A	15A	17A	20A	AvgRF	%RSD	COD	Cur
1,2-Dibromo-3-chloropropane		0.124	0.133	0.148	0.142	0.146	0.149	0.171	0.151	0.159	0.167										0.14906	9.59	0.096	1
1,2,4-Trichlorobenzene	0.721	0.896	0.797	0.813	0.732	0.724	0.767	0.82	0.733	0.758	0.686										0.767723	7.77	0.078	1
HEXACHLORO-1,3-BUTADIENE	0.3	0.426	0.401	0.362	0.329	0.353	0.365	0.396	0.36	0.368	0.35										0.364552	9.47	0.095	1
Naphthalene	2.305	2.396	2.297	2.305	2.12	2.105	2.162	2.403	2.14	2.218	2.115										2.233375	5.05	0.05	1
1,2,3-Trichlorobenzene	0.646	0.777	0.765	0.702	0.679	0.644	0.666	0.733	0.652	0.674	0.625										0.687567	7.38	0.074	1
1-Methylnaphthalene	1.167	1.071	0.986	1.017	0.863	0.907	0.942	1.073	0.946	0.99	0.899										0.987229	9.11	0.091	1
2-Methylnaphthalene	0.676	0.826	0.8	0.821	0.774	0.739	0.767	0.868	0.765	0.792	0.709										0.776025	7.03	0.07	1
AP9-PENTAFLUOROBENZENE																								
ETHANOL												0.009	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.007935	4.29	0.043	1
Bromoethane												0.342	0.298	0.31	0.318	0.329	0.317	0.311	0.31	0.318	0.31706	3.95	0.04	1
2-PROPANOL												0.059	0.046	0.043	0.041	0.043	0.042	0.042	0.041	0.039	0.044106	13.54	0.135	1
Methyl Acetate												0.336	0.346	0.33	0.329	0.327	0.333	0.332	0.318	0.311	0.329024	3.06	0.031	1
ACETONITRILE												0.067	0.069	0.066	0.067	0.067	0.069	0.069	0.065	0.065	0.067276	2.3	0.023	1
ALLYL CHLORIDE												0.255	0.261	0.249	0.252	0.251	0.247	0.251	0.244	0.244	0.250318	2.19	0.022	1
tert-BUTYL ALCOHOL												0.097	0.1	0.092	0.094	0.09	0.094	0.09	0.086	0.083	0.091829	5.62	0.056	1
chloroprene												0.441	0.464	0.449	0.446	0.437	0.441	0.437	0.427	0.424	0.4408	2.68	0.027	1
ETHYL TERT-BUTYL ETHER												1.568	1.598	1.566	1.558	1.523	1.556	1.551	1.521	1.506	1.549674	1.83	0.018	1
PROPIONITRILE												0.073	0.074	0.071	0.07	0.069	0.07	0.07	0.067	0.065	0.069822	3.71	0.037	1
Ethyl Acetate												0.51	0.517	0.49	0.487	0.486	0.493	0.496	0.475	0.465	0.491176	3.28	0.033	1
METHACRYLONITRILE												0.221	0.223	0.21	0.208	0.203	0.205	0.205	0.196	0.193	0.207153	4.86	0.049	1
Cyclohexane												0.669	0.643	0.633	0.635	0.636	0.639	0.634	0.622	0.629	0.6377	2.05	0.02	1
tert-butyl formate												0.454	0.46	0.451	0.446	0.446	0.446	0.445	0.427	0.429	0.444887	2.41	0.024	1
ISOBUTANOL												0.032	0.031	0.029	0.03	0.029	0.03	0.03	0.029	0.028	0.029901	3.33	0.033	1

PDF Generated On: 11/25/2014 -- By: Amy Green
Page 17 of 196

Environmental Science Corporation
12065 Lebanon Rd., Mt. Juliet, TN 37122

INITIAL CALIBRATION SUMMARY

Instrument ID	: VOCMS7	Review Method	: 601-602	Released By	: Amy Green
Method	: V807K24N	Review Protocol	: EPA	Released On	: 11/25/2014 2:15:40 PM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- V807K24N -- ICal Updated Time: Tue Nov 25 14:00:56 2014

Parameter	.25	.5	1	2	5.0	10	25	40	75	100	200	1A	2.5A	5A	7.5A	10A	12A	15A	17A	20A	AvgRF	%RSD	COD	Cur
-Amyl Alcohol												0.057	0.056	0.051	0.054	0.053	0.059	0.056	0.053	0.049	0.05406	5.62	0.056	1
TERT-AMYL METHYL ETHER												1.442	1.425	1.367	1.321	1.285	1.293	1.271	1.261	1.237	1.322539	5.53	0.055	1
AP9-1,4-DIFLUOROBENZENE																								
N-BUTANOL												0.01	0.011	0.01	0.01	0.01	0.011	0.01	0.01	0.01	0.010227	2.62	0.026	1
Methyl Cyclohexane												0.832	0.582	0.493	0.476	0.452	0.439	0.437	0.43	0.43	0.507748	25.75	1	0
-nitropropane												0.102	0.073	0.073	0.073	0.069	0.072	0.073	0.072	0.07	0.075143	13.57	0.136	1
METHYL METHACRYLATE												0.25	0.237	0.235	0.232	0.226	0.231	0.234	0.227	0.227	0.233314	3.11	0.031	1
1,4-DIOXANE												0.003	0.003	0.004	0.004	0.003	0.004	0.004	0.004	0.003	0.003514	3.84	0.038	1
n-octane												0.267	0.245	0.255	0.241	0.236	0.241	0.238	0.236	0.238	0.244017	4.3	0.043	1
3,3-DIMETHYL-1-BUTANOL												0.033	0.033	0.031	0.029	0.031	0.033	0.032	0.032	0.032	0.031897	4.18	0.042	1
AP9-2-BROMO-1 -CHLOROPROPANE																								
ETHYL METHACRYLATE												2.341	2.339	2.237	2.228	2.255	2.239	2.252	2.223	2.239	2.261416	2.02	0.02	1
CIS-1,4-DICHLORO-2-BUTENE												0.509	0.52	0.505	0.503	0.529	0.517	0.527	0.52	0.519	0.51655	1.72	0.017	1
Cyclohexanone																					0	0	0	1
PENTACHLOROETHANE												1.152	1.092	1.034	1.082	1.073	1.044	1.081	1.048	1.092	1.077488	3.26	0.033	1
Hexachloroethane												1.176	1.235	1.276	1.265	1.272	1.25	1.29	1.311	1.345	1.268945	3.76	0.038	1
AP9-1,4-DICHLOROBENZENE-D4																								

PDF Generated On: 11/25/2014 - By: Amy Green

Environmental Science Corporation
12065 Lebanon Rd., Mt. Juliet, TN 37122

INITIAL CALIBRATION SUMMARY

Instrument ID	: VOCMS7	Review Method	: 624	Released By	: Amy Green
Method	: V807K24N	Review Protocol	: EPA	Released On	: 11/25/2014 2:16:16 PM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- V807K24N -- ICal Updated Time: Tue Nov 25 14:00:56 2014

Parameter	.25	.5	1	2	5.0	10	25	40	75	100	200	1A	2.5A	5A	7.5A	10A	12A	15A	17A	20A	AvgRF	%RSD	COD	Cur
8260-PENTAFLUOROBENZENE																								
TPH (GC/MS) LOW FRACTION																					0	0	0	1
PROPENE				0.172	0.138	0.115	0.124	0.128	0.12	0.13	0.135										0.132596	13.24	0.132	1
DICHLORODIFLUOROMETHANE	0.63	0.614	0.631	0.584	0.477	0.521	0.542	0.574	0.559	0.575	0.589										0.572321	8.15	0.082	1
CHLOROMETHANE	0.662	0.686	0.756	0.692	0.614	0.641	0.682	0.703	0.671	0.7	0.714										0.683859	5.5	0.055	1
VINYL CHLORIDE	0.461	0.694	0.676	0.72	0.596	0.686	0.712	0.744	0.702	0.726	0.732										0.677257	12.1	0.121	1
1,3-BUTADIENE			0.616	0.515	0.451	0.48	0.487	0.501	0.469	0.476	0.46										0.495021	9.95	0.099	1
BROMOMETHANE				0.267	0.211	0.203	0.196	0.212	0.21	0.22	0.232										0.218857	10.2	0.102	1
CHLOROETHANE					0.106	0.113	0.106	0.099	0.079												0.100451	12.76	0.128	1
TRICHLOROFLUOROMETHANE	0.5	0.661	0.655	0.664	0.563	0.656	0.669	0.683	0.64	0.656	0.637										0.635003	8.56	0.086	1
DICHLOROFLUOROMETHANE	1.191	0.985	0.914	0.968	0.887	0.895	0.954	0.977	0.915	0.943	0.928										0.95967	8.69	0.087	1
ETHYL ETHER	0.373	0.473	0.439	0.458	0.415	0.434	0.446	0.462	0.429	0.436	0.44										0.436677	6.12	0.061	1
ACROLEIN			0.097	0.085	0.075	0.075	0.073	0.078	0.071	0.075	0.078										0.07849	10.21	0.102	1
1,1-DICHLOROETHENE	0.63	0.754	0.768	0.775	0.663	0.73	0.782	0.806	0.737	0.754	0.74										0.739946	6.98	0.07	1
1,1,2 -TRICHLOROTRIFLUOROETHANE	0.415	0.473	0.486	0.485	0.421	0.469	0.496	0.507	0.467	0.482	0.471										0.470187	6.04	0.06	1
ACETONE			0.18	0.169	0.139	0.139	0.132	0.144	0.126	0.129	0.137										0.143924	12.84	0.128	1
IODOMETHANE		0.481	0.477	0.483	0.449	0.51	0.575	0.613	0.609	0.645	0.657										0.549884	14.18	0.142	1
CARBON DISULFIDE	2.467	2.303	2.046	1.953	1.669	1.81	1.85	1.886	1.742	1.792	1.769										1.935129	12.78	0.128	1
METHYLENE CHLORIDE		0.721	0.676	0.633	0.54	0.547	0.563	0.583	0.55	0.564	0.571										0.594864	10.32	0.103	1
ACRYLONITRILE	0.197	0.205	0.217	0.218	0.194	0.194	0.193	0.207	0.187	0.193	0.201										0.200472	5.08	0.051	1
n-Hexane			0.726	0.631	0.502	0.523	0.538	0.531	0.49	0.499	0.49										0.547667	14.53	0.145	1
TRANS-1,2-DICHLOROETHENE	0.732	0.668	0.574	0.578	0.502	0.538	0.561	0.572	0.535	0.553	0.551										0.57858	11.32	0.113	1

PDF Generated On: 11/25/2014 - By: Amy Green

Environmental Science Corporation
12065 Lebanon Rd., Mt. Juliet, TN 37122

INITIAL CALIBRATION SUMMARY

Instrument ID	: VOCMS7	Review Method	: 624	Released By	: Amy Green
Method	: V807K24N	Review Protocol	: EPA	Released On	: 11/25/2014 2:16:16 PM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- V807K24N -- ICal Updated Time: Tue Nov 25 14:00:56 2014

Parameter	.25	.5	1	2	5.0	10	25	40	75	100	200	1A	2.5A	5A	7.5A	10A	12A	15A	17A	20A	AvgRF	%RSD	COD	Cur
METHYL TERT-BUTYL ETHER	1.406	1.588	1.54	1.608	1.452	1.442	1.474	1.532	1.402	1.439	1.459										1.485626	4.75	0.047	1
,1-DICHLOROETHANE	0.872	0.997	1.009	0.995	0.869	0.929	0.99	1.024	0.947	0.977	0.985										0.962997	5.48	0.055	1
VINYL ACETATE	0.889	0.99	0.95	0.93	0.911	0.88	0.859	0.925	0.797	0.886	0.833										0.895583	6.06	0.061	1
DI-ISOPROPYL ETHER	1.822	2.017	1.989	1.87	1.718	1.736	1.783	1.848	1.711	1.766	1.758										1.819844	5.71	0.057	1
2,2-Dichloropropane	0.785	0.811	0.893	0.827	0.73	0.757	0.796	0.804	0.745	0.777	0.77										0.790431	5.63	0.056	1
CIS-1,2-DICHLOROETHENE	0.695	0.65	0.641	0.633	0.544	0.584	0.602	0.614	0.573	0.595	0.6										0.611918	6.78	0.068	1
-BUTANONE (MEK)	0.058	0.078	0.084	0.077	0.066	0.07	0.069	0.074	0.066	0.069	0.072										0.071185	10.04	0.1	1
BROMOCHLOROMETHANE	0.264	0.335	0.33	0.332	0.305	0.315	0.327	0.342	0.312	0.321	0.316										0.31816	6.64	0.066	1
TETRAHYDROFURAN					0.198	0.168	0.164	0.18	0.158	0.165	0.166										0.171174	7.77	0.078	1
CHLOROFORM	1.204	1.142	1.044	0.945	0.813	0.836	0.889	0.902	0.847	0.878	0.874										0.943129	13.79	0.138	1
DIBROMOFLUOROMETHANE	0.512	0.521	0.521	0.518	0.513	0.516	0.521	0.524	0.515	0.515	0.508										0.516717	0.91	0.009	1
1,1,1-TRICHLOROETHANE	1.01	0.892	0.809	0.745	0.635	0.692	0.707	0.732	0.684	0.706	0.711										0.756578	14.31	0.143	1
CARBON TETRACHLORIDE	0.518	0.595	0.572	0.581	0.473	0.528	0.567	0.583	0.554	0.577	0.562										0.555503	6.48	0.065	1
1,1-Dichloropropene	0.722	0.763	0.777	0.799	0.697	0.733	0.768	0.789	0.732	0.753	0.756										0.753563	4.05	0.041	1
2,2,4-TRIMETHYLPENTANE	2.595	2.66	2.593	2.562	2.085	2.365	2.36	2.394	2.216	2.282	2.269										2.398274	7.65	0.076	1
HEPTANE	1.251	1.06	1.096	0.963	0.861	0.899	0.935	0.95	0.883	0.898	0.881										0.970658	12.27	0.123	1
BENZENE	2.4	2.505	2.458	2.383	2.04	2.127	2.224	2.257	2.128	2.186	2.213										2.265619	6.64	0.066	1
1,2-DICHLOROETHANE	0.526	0.575	0.606	0.615	0.576	0.567	0.592	0.625	0.581	0.606	0.617										0.589747	4.87	0.049	1
8260-1,4-DIFLUOROBENZENE																								
TRICHLOROETHENE	0.285	0.303	0.294	0.306	0.256	0.275	0.288	0.291	0.274	0.286	0.284										0.285544	4.84	0.048	1
,2-DICHLOROPROPANE	0.188	0.235	0.254	0.251	0.217	0.224	0.227	0.229	0.212	0.219	0.215										0.22446	8.22	0.082	1
DIBROMOMETHANE	0.142	0.198	0.17	0.171	0.158	0.157	0.167	0.171	0.162	0.17	0.17										0.16692	8.14	0.081	1

PDF Generated On: 11/25/2014 -- By: Amy Green

Environmental Science Corporation
12065 Lebanon Rd., Mt. Juliet, TN 37122

INITIAL CALIBRATION SUMMARY

Instrument ID	: VOCMS7	Review Method	: 624	Released By	: Amy Green
Method	: V807K24N	Review Protocol	: EPA	Released On	: 11/25/2014 2:16:16 PM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- V807K24N -- ICal Updated Time: Tue Nov 25 14:00:56 2014

Parameter	.25	.5	1	2	5.0	10	25	40	75	100	200	1A	2.5A	5A	7.5A	10A	12A	15A	17A	20A	AvgRF	%RSD	COD	Cur
BROMODICHLOROMETHANE		0.428	0.472	0.426	0.363	0.361	0.366	0.376	0.346	0.362	0.36										0.386048	10.69	0.107	1
a,a,a-Trifluorotoluene	0.551	0.553	0.546	0.541	0.532	0.535	0.529	0.519	0.506	0.512	0.515										0.530836	3.06	0.031	1
-CHLOROETHYL VINYL ETHER					0.002	0.002	0.001	0.001	0.001												0.001361	25.18	0.995	0
CIS-1,3-DICHLOROPROPENE	0.517	0.535	0.513	0.534	0.486	0.487	0.506	0.519	0.479	0.502	0.503										0.507447	3.65	0.036	1
-METHYL-2-PENTANONE (MIBK)	0.115	0.14	0.124	0.129	0.117	0.117	0.116	0.124	0.11	0.115	0.116										0.120179	6.9	0.069	1
TOLUENE-D8	1.228	1.235	1.222	1.223	1.206	1.198	1.201	1.185	1.167	1.186	1.225										1.206827	1.79	0.018	1
TOLUENE		1.827	1.494	1.404	1.181	1.22	1.259	1.262	1.189	1.234	1.221										1.329238	15.13	0.151	1
TRANS-1,3-DICHLOROPROPENE		0.122	0.12	0.109	0.107	0.11	0.111	0.111	0.101	0.105	0.105										0.109978	6.02	0.06	1
8260-2-BROMO-1 -CHLOROPROPANE																								
1,1,2-TRICHLOROETHANE		2.144	1.803	1.727	1.501	1.486	1.576	1.557	1.463	1.504	1.486										1.624665	13.19	0.132	1
TETRACHLOROETHENE	1.424	1.489	1.259	1.329	1.151	1.242	1.294	1.259	1.186	1.213	1.153										1.272628	8.42	0.084	1
1,3-Dichloropropane	3.291	3.135	2.935	2.779	2.579	2.606	2.682	2.716	2.526	2.614	2.541										2.76407	9.17	0.092	1
2-HEXANONE	0.745	0.807	0.806	0.831	0.717	0.715	0.727	0.768	0.691	0.714	0.706										0.747829	6.38	0.064	1
CHLORODIBROMOMETHANE	1.405	1.502	1.503	1.52	1.362	1.447	1.521	1.568	1.483	1.563	1.535										1.491787	4.3	0.043	1
1,2-DIBROMOETHANE	1.383	1.636	1.653	1.668	1.552	1.52	1.573	1.611	1.51	1.58	1.567										1.568449	5.1	0.051	1
CHLOROBENZENE	4.869	5.472	5.215	5.123	4.464	4.615	4.921	4.765	4.495	4.612	4.377										4.811573	7.21	0.072	1
1,1,1,2-TETRACHLOROETHANE	1.312	1.466	1.51	1.454	1.332	1.357	1.418	1.371	1.304	1.365	1.34										1.384518	4.91	0.049	1
ETHYLBENZENE	2.939	2.877	2.844	2.827	2.463	2.739	2.803	2.73	2.595	2.645	2.503										2.724073	5.7	0.057	1
M&P-XYLENE	4.211	4.059	3.664	3.553	3.162	3.264	3.386	3.297	3.126	3.213	3.036										3.451851	11.16	0.112	1
O-XYLENE	3.575	3.779	3.588	3.482	3.098	3.187	3.363	3.332	3.168	3.289	3.174										3.366873	6.4	0.064	1
STYRENE	5.215	5.913	5.775	5.412	4.979	5.208	5.488	5.427	5.131	5.348	5.169										5.36964	5.2	0.052	1
Bromoform	0.655	1.067	0.857	0.999	0.907	0.896	0.923	0.943	0.896	0.94	0.968										0.914	11.27	0.113	1

PDF Generated On: 11/25/2014 -- By: Amy Green

Environmental Science Corporation
12065 Lebanon Rd., Mt. Juliet, TN 37122

INITIAL CALIBRATION SUMMARY

Instrument ID	: VOCMS7	Review Method	: 624	Released By	: Amy Green
Method	: V807K24N	Review Protocol	: EPA	Released On	: 11/25/2014 2:16:16 PM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- V807K24N -- ICal Updated Time: Tue Nov 25 14:00:56 2014

Parameter	.25	.5	1	2	5.0	10	25	40	75	100	200	1A	2.5A	5A	7.5A	10A	12A	15A	17A	20A	AvgRF	%RSD	COD	Cur
Isopropylbenzene	8.619	9.164	9.042	8.68	7.722	8.11	8.52	8.428	7.952	8.251	7.881										8.397252	5.55	0.056	1
4-BROMOFLUOROBENZENE	2.861	2.76	2.798	2.736	2.747	2.742	2.818	2.787	2.831	2.823	2.814										2.792403	1.48	0.015	1
Bromobenzene	4.128	4.298	3.719	3.724	3.38	3.439	3.537	3.482	3.281	3.372	3.206										3.597081	9.62	0.096	1
1,1,2,2-TETRACHLOROETHANE	2.881	2.756	2.573	2.499	2.146	2.096	2.126	2.192	2.016	2.107	2.118										2.319035	13.03	0.13	1
1,2,3-TRICHLOROPROPANE		0.628	0.628	0.527	0.53	0.505	0.5	0.513	0.476	0.502	0.505										0.531509	9.99	0.1	1
TRANS-1,4-DICHLORO-2-BUTENE		0.617	0.541	0.603	0.534	0.501	0.545	0.55	0.524	0.533	0.549										0.549722	6.37	0.064	1
n-Propylbenzene	10.73	10.71	10.67	10.41	9.139999	9.55	10.21	9.99	9.53	9.75	9.21										9.98957	5.95	0.059	1
4-ETHYLTOLUENE	9.824	9.164	8.804	8.695	7.499	7.8	8.222	8.138	7.707	7.946	7.537										8.303356	8.9	0.089	1
2-Chlorotoluene	1.982	2.039	2.087	1.993	1.659	1.726	1.819	1.799	1.7	1.753	1.676										1.839298	8.52	0.085	1
4-Chlorotoluene	7.156	6.846	6.481	6.276	5.566	5.758	6.078	6.043	5.743	5.956	5.761										6.151283	8.11	0.081	1
1,3,5-Trimethylbenzene	7.485	7.719	7.177	7.241	6.104	6.475	6.76	6.643	6.271	6.449	6.036										6.760126	8.41	0.084	1
tert-Butylbenzene	5.483	5.847	6.164	5.93	5.199	5.484	5.743	5.776	5.504	5.672	5.376										5.652434	4.88	0.049	1
1,2,4-Trimethylbenzene	8.693	8.139	7.595	7.338	6.436	6.562	6.789	6.737	6.44	6.624	6.334										7.062626	11.07	0.111	1
sec-Butylbenzene	9.5	10.14	9.59	9.8	8.49	8.79	9.3	9.2	8.77	9.08	8.58										9.20482	5.7	0.057	1
1,3-DICHLOROBENZENE	3.891	3.852	3.906	3.734	3.43	3.479	3.666	3.651	3.521	3.642	3.508										3.661894	4.61	0.046	1
p-Isopropyltoluene	7.523	8.022	7.986	7.724	6.767	7.071	7.334	7.33	6.953	7.109	6.623										7.312794	6.37	0.064	1
DICYCLOPENTADIENE	8.165	8.871	8.771	8.972	7.753	8.028	8.467	8.264	7.728	7.925	7.388										8.211851	6.25	0.063	1
8260-1,4-DICHLOROBENZENE-D4																								
1,4-DICHLOROBENZENE	1.298	1.313	1.344	1.309	1.176	1.215	1.253	1.281	1.193	1.243	1.189										1.255794	4.56	0.046	1
1,2,3-TRIMETHYLBENZENE	2.92	2.726	2.634	2.56	2.268	2.272	2.359	2.407	2.211	2.301	2.198										2.441503	9.68	0.097	1
1,2-DICHLOROBENZENE	1.23	1.304	1.29	1.242	1.176	1.168	1.221	1.279	1.177	1.236	1.213										1.230559	3.78	0.038	1
n-Butylbenzene	2.635	2.857	2.739	2.663	2.355	2.418	2.559	2.63	2.418	2.508	2.342										2.556648	6.48	0.065	1

PDF Generated On: 11/25/2014 -- By: Amy Green

Environmental Science Corporation
12065 Lebanon Rd., Mt. Juliet, TN 37122

INITIAL CALIBRATION SUMMARY

Instrument ID	: VOCMS7	Review Method	: 624	Released By	: Amy Green
Method	: V807K24N	Review Protocol	: EPA	Released On	: 11/25/2014 2:16:16 PM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- V807K24N -- ICal Updated Time: Tue Nov 25 14:00:56 2014

Parameter	.25	.5	1	2	5.0	10	25	40	75	100	200	1A	2.5A	5A	7.5A	10A	12A	15A	17A	20A	AvgRF	%RSD	COD	Cur
1,2-Dibromo-3-chloropropane		0.124	0.133	0.148	0.142	0.146	0.149	0.171	0.151	0.159	0.167										0.14906	9.59	0.096	1
1,2,4-Trichlorobenzene	0.721	0.896	0.797	0.813	0.732	0.724	0.767	0.82	0.733	0.758	0.686										0.767723	7.77	0.078	1
HEXACHLORO-1,3-BUTADIENE	0.3	0.426	0.401	0.362	0.329	0.353	0.365	0.396	0.36	0.368	0.35										0.364552	9.47	0.095	1
Naphthalene	2.305	2.396	2.297	2.305	2.12	2.105	2.162	2.403	2.14	2.218	2.115										2.233375	5.05	0.05	1
1,2,3-Trichlorobenzene	0.646	0.777	0.765	0.702	0.679	0.644	0.666	0.733	0.652	0.674	0.625										0.687567	7.38	0.074	1
1-Methylnaphthalene	1.167	1.071	0.986	1.017	0.863	0.907	0.942	1.073	0.946	0.99	0.899										0.987229	9.11	0.091	1
2-Methylnaphthalene	0.676	0.826	0.8	0.821	0.774	0.739	0.767	0.868	0.765	0.792	0.709										0.776025	7.03	0.07	1
AP9-PENTAFLUOROBENZENE																								
ETHANOL												0.009	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.007935	4.29	0.043	1
Bromoethane												0.342	0.298	0.31	0.318	0.329	0.317	0.311	0.31	0.318	0.31706	3.95	0.04	1
2-PROPANOL												0.059	0.046	0.043	0.041	0.043	0.042	0.042	0.041	0.039	0.044106	13.54	0.135	1
Methyl Acetate												0.336	0.346	0.33	0.329	0.327	0.333	0.332	0.318	0.311	0.329024	3.06	0.031	1
ACETONITRILE												0.067	0.069	0.066	0.067	0.067	0.069	0.069	0.065	0.065	0.067276	2.3	0.023	1
ALLYL CHLORIDE												0.255	0.261	0.249	0.252	0.251	0.247	0.251	0.244	0.244	0.250318	2.19	0.022	1
tert-BUTYL ALCOHOL												0.097	0.1	0.092	0.094	0.09	0.094	0.09	0.086	0.083	0.091829	5.62	0.056	1
chloroprene												0.441	0.464	0.449	0.446	0.437	0.441	0.437	0.427	0.424	0.4408	2.68	0.027	1
ETHYL TERT-BUTYL ETHER												1.568	1.598	1.566	1.558	1.523	1.556	1.551	1.521	1.506	1.549674	1.83	0.018	1
PROPIONITRILE												0.073	0.074	0.071	0.07	0.069	0.07	0.07	0.067	0.065	0.069822	3.71	0.037	1
Ethyl Acetate												0.51	0.517	0.49	0.487	0.486	0.493	0.496	0.475	0.465	0.491176	3.28	0.033	1
METHACRYLONITRILE												0.221	0.223	0.21	0.208	0.203	0.205	0.205	0.196	0.193	0.207153	4.86	0.049	1
Cyclohexane												0.669	0.643	0.633	0.635	0.636	0.639	0.634	0.622	0.629	0.6377	2.05	0.02	1
tert-butyl formate												0.454	0.46	0.451	0.446	0.446	0.446	0.445	0.427	0.429	0.444887	2.41	0.024	1
ISOBUTANOL												0.032	0.031	0.029	0.03	0.029	0.03	0.03	0.029	0.028	0.029901	3.33	0.033	1

PDF Generated On: 11/25/2014 -- By: Amy Green
Page 23 of 196

Environmental Science Corporation
12065 Lebanon Rd., Mt. Juliet, TN 37122

INITIAL CALIBRATION SUMMARY

Instrument ID	: VOCMS7	Review Method	: 624	Released By	: Amy Green
Method	: V807K24N	Review Protocol	: EPA	Released On	: 11/25/2014 2:16:16 PM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- V807K24N -- ICal Updated Time: Tue Nov 25 14:00:56 2014

Parameter	.25	.5	1	2	5.0	10	25	40	75	100	200	1A	2.5A	5A	7.5A	10A	12A	15A	17A	20A	AvgRF	%RSD	COD	Cur
-Amyl Alcohol												0.057	0.056	0.051	0.054	0.053	0.059	0.056	0.053	0.049	0.05406	5.62	0.056	1
TERT-AMYL METHYL ETHER												1.442	1.425	1.367	1.321	1.285	1.293	1.271	1.261	1.237	1.322539	5.53	0.055	1
AP9-1,4-DIFLUOROBENZENE																								
N-BUTANOL												0.01	0.011	0.01	0.01	0.01	0.011	0.01	0.01	0.01	0.010227	2.62	0.026	1
Methyl Cyclohexane												0.832	0.582	0.493	0.476	0.452	0.439	0.437	0.43	0.43	0.507748	25.75	1	0
-nitropropane												0.102	0.073	0.073	0.073	0.069	0.072	0.073	0.072	0.07	0.075143	13.57	0.136	1
METHYL METHACRYLATE												0.25	0.237	0.235	0.232	0.226	0.231	0.234	0.227	0.227	0.233314	3.11	0.031	1
1,4-DIOXANE												0.003	0.003	0.004	0.004	0.003	0.004	0.004	0.004	0.003	0.003514	3.84	0.038	1
n-octane												0.267	0.245	0.255	0.241	0.236	0.241	0.238	0.236	0.238	0.244017	4.3	0.043	1
3,3-DIMETHYL-1-BUTANOL												0.033	0.033	0.031	0.029	0.031	0.033	0.032	0.032	0.032	0.031897	4.18	0.042	1
AP9-2-BROMO-1 -CHLOROPROPANE																								
ETHYL METHACRYLATE												2.341	2.339	2.237	2.228	2.255	2.239	2.252	2.223	2.239	2.261416	2.02	0.02	1
CIS-1,4-DICHLORO-2-BUTENE												0.509	0.52	0.505	0.503	0.529	0.517	0.527	0.52	0.519	0.51655	1.72	0.017	1
Cyclohexanone																					0	0	0	1
PENTACHLOROETHANE												1.152	1.092	1.034	1.082	1.073	1.044	1.081	1.048	1.092	1.077488	3.26	0.033	1
Hexachloroethane												1.176	1.235	1.276	1.265	1.272	1.25	1.29	1.311	1.345	1.268945	3.76	0.038	1
AP9-1,4-DICHLOROBENZENE-D4																								

PDF Generated On: 11/25/2014 - By: Amy Green

Environmental Science Corporation
12065 Lebanon Rd., Mt. Juliet, TN 37122

INITIAL CALIBRATION SUMMARY

Instrument ID	: VOCMS7	Review Method	: 8260SC	Released By	: Amy Green
Method	: V807K24N	Review Protocol	: SC	Released On	: 11/25/2014 2:16:48 PM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- V807K24N -- ICal Updated Time: Tue Nov 25 14:00:56 2014

Parameter	.25	.5	1	2	5.0	10	25	40	75	100	200	1A	2.5A	5A	7.5A	10A	12A	15A	17A	20A	AvgRF	%RSD	COD	Cur
8260-PENTAFLUOROBENZENE																								
TPH (GC/MS) LOW FRACTION																					0	0	0	1
PROPENE				0.172	0.138	0.115	0.124	0.128	0.12	0.13	0.135										0.132596	13.24	0.132	1
DICHLORODIFLUOROMETHANE	0.63	0.614	0.631	0.584	0.477	0.521	0.542	0.574	0.559	0.575	0.589										0.572321	8.15	0.082	1
CHLOROMETHANE	0.662	0.686	0.756	0.692	0.614	0.641	0.682	0.703	0.671	0.7	0.714										0.683859	5.5	0.055	1
VINYL CHLORIDE	0.461	0.694	0.676	0.72	0.596	0.686	0.712	0.744	0.702	0.726	0.732										0.677257	12.1	0.121	1
1,3-BUTADIENE			0.616	0.515	0.451	0.48	0.487	0.501	0.469	0.476	0.46										0.495021	9.95	0.099	1
BROMOMETHANE				0.267	0.211	0.203	0.196	0.212	0.21	0.22	0.232										0.218857	10.2	0.102	1
CHLOROETHANE					0.106	0.113	0.106	0.099	0.079												0.100451	12.76	0.128	1
TRICHLOROFLUOROMETHANE	0.5	0.661	0.655	0.664	0.563	0.656	0.669	0.683	0.64	0.656	0.637										0.635003	8.56	0.086	1
DICHLOROFLUOROMETHANE	1.191	0.985	0.914	0.968	0.887	0.895	0.954	0.977	0.915	0.943	0.928										0.95967	8.69	0.087	1
ETHYL ETHER	0.373	0.473	0.439	0.458	0.415	0.434	0.446	0.462	0.429	0.436	0.44										0.436677	6.12	0.061	1
ACROLEIN			0.097	0.085	0.075	0.075	0.073	0.078	0.071	0.075	0.078										0.07849	10.21	0.102	1
1,1-DICHLOROETHENE	0.63	0.754	0.768	0.775	0.663	0.73	0.782	0.806	0.737	0.754	0.74										0.739946	6.98	0.07	1
1,1,2 -TRICHLOROTRIFLUOROETHANE	0.415	0.473	0.486	0.485	0.421	0.469	0.496	0.507	0.467	0.482	0.471										0.470187	6.04	0.06	1
ACETONE			0.18	0.169	0.139	0.139	0.132	0.144	0.126	0.129	0.137										0.143924	12.84	0.128	1
IODOMETHANE		0.481	0.477	0.483	0.449	0.51	0.575	0.613	0.609	0.645	0.657										0.549884	14.18	0.142	1
CARBON DISULFIDE	2.467	2.303	2.046	1.953	1.669	1.81	1.85	1.886	1.742	1.792	1.769										1.935129	12.78	0.128	1
METHYLENE CHLORIDE		0.721	0.676	0.633	0.54	0.547	0.563	0.583	0.55	0.564	0.571										0.594864	10.32	0.103	1
ACRYLONITRILE	0.197	0.205	0.217	0.218	0.194	0.194	0.193	0.207	0.187	0.193	0.201										0.200472	5.08	0.051	1
n-Hexane			0.726	0.631	0.502	0.523	0.538	0.531	0.49	0.499	0.49										0.547667	14.53	0.145	1
TRANS-1,2-DICHLOROETHENE	0.732	0.668	0.574	0.578	0.502	0.538	0.561	0.572	0.535	0.553	0.551										0.57858	11.32	0.113	1

PDF Generated On: 11/25/2014 - By: Amy Green

Environmental Science Corporation
12065 Lebanon Rd., Mt. Juliet, TN 37122

INITIAL CALIBRATION SUMMARY

Instrument ID	: VOCMS7	Review Method	: 8260SC	Released By	: Amy Green
Method	: V807K24N	Review Protocol	: SC	Released On	: 11/25/2014 2:16:48 PM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- V807K24N -- ICal Updated Time: Tue Nov 25 14:00:56 2014

Parameter	.25	.5	1	2	5.0	10	25	40	75	100	200	1A	2.5A	5A	7.5A	10A	12A	15A	17A	20A	AvgRF	%RSD	COD	Cur
METHYL TERT-BUTYL ETHER	1.406	1.588	1.54	1.608	1.452	1.442	1.474	1.532	1.402	1.439	1.459										1.485626	4.75	0.047	1
,1-DICHLOROETHANE	0.872	0.997	1.009	0.995	0.869	0.929	0.99	1.024	0.947	0.977	0.985										0.962997	5.48	0.055	1
VINYL ACETATE	0.889	0.99	0.95	0.93	0.911	0.88	0.859	0.925	0.797	0.886	0.833										0.895583	6.06	0.061	1
DI-ISOPROPYL ETHER	1.822	2.017	1.989	1.87	1.718	1.736	1.783	1.848	1.711	1.766	1.758										1.819844	5.71	0.057	1
2,2-Dichloropropane	0.785	0.811	0.893	0.827	0.73	0.757	0.796	0.804	0.745	0.777	0.77										0.790431	5.63	0.056	1
CIS-1,2-DICHLOROETHENE	0.695	0.65	0.641	0.633	0.544	0.584	0.602	0.614	0.573	0.595	0.6										0.611918	6.78	0.068	1
-BUTANONE (MEK)	0.058	0.078	0.084	0.077	0.066	0.07	0.069	0.074	0.066	0.069	0.072										0.071185	10.04	0.1	1
BROMOCHLOROMETHANE	0.264	0.335	0.33	0.332	0.305	0.315	0.327	0.342	0.312	0.321	0.316										0.31816	6.64	0.066	1
TETRAHYDROFURAN					0.198	0.168	0.164	0.18	0.158	0.165	0.166										0.171174	7.77	0.078	1
CHLOROFORM	1.204	1.142	1.044	0.945	0.813	0.836	0.889	0.902	0.847	0.878	0.874										0.943129	13.79	0.138	1
DIBROMOFLUOROMETHANE	0.512	0.521	0.521	0.518	0.513	0.516	0.521	0.524	0.515	0.515	0.508										0.516717	0.91	0.009	1
1,1,1-TRICHLOROETHANE	1.01	0.892	0.809	0.745	0.635	0.692	0.707	0.732	0.684	0.706	0.711										0.756578	14.31	0.143	1
CARBON TETRACHLORIDE	0.518	0.595	0.572	0.581	0.473	0.528	0.567	0.583	0.554	0.577	0.562										0.555503	6.48	0.065	1
1,1-Dichloropropene	0.722	0.763	0.777	0.799	0.697	0.733	0.768	0.789	0.732	0.753	0.756										0.753563	4.05	0.041	1
2,2,4-TRIMETHYLPENTANE	2.595	2.66	2.593	2.562	2.085	2.365	2.36	2.394	2.216	2.282	2.269										2.398274	7.65	0.076	1
HEPTANE	1.251	1.06	1.096	0.963	0.861	0.899	0.935	0.95	0.883	0.898	0.881										0.970658	12.27	0.123	1
BENZENE	2.4	2.505	2.458	2.383	2.04	2.127	2.224	2.257	2.128	2.186	2.213										2.265619	6.64	0.066	1
1,2-DICHLOROETHANE	0.526	0.575	0.606	0.615	0.576	0.567	0.592	0.625	0.581	0.606	0.617										0.589747	4.87	0.049	1
8260-1,4-DIFLUOROBENZENE																								
TRICHLOROETHENE	0.285	0.303	0.294	0.306	0.256	0.275	0.288	0.291	0.274	0.286	0.284										0.285544	4.84	0.048	1
,2-DICHLOROPROPANE	0.188	0.235	0.254	0.251	0.217	0.224	0.227	0.229	0.212	0.219	0.215										0.22446	8.22	0.082	1
DIBROMOMETHANE	0.142	0.198	0.17	0.171	0.158	0.157	0.167	0.171	0.162	0.17	0.17										0.16692	8.14	0.081	1

PDF Generated On: 11/25/2014 -- By: Amy Green

Environmental Science Corporation
12065 Lebanon Rd., Mt. Juliet, TN 37122

INITIAL CALIBRATION SUMMARY

Instrument ID	: VOCMS7	Review Method	: 8260SC	Released By	: Amy Green
Method	: V807K24N	Review Protocol	: SC	Released On	: 11/25/2014 2:16:48 PM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- V807K24N -- ICal Updated Time: Tue Nov 25 14:00:56 2014

Parameter	.25	.5	1	2	5.0	10	25	40	75	100	200	1A	2.5A	5A	7.5A	10A	12A	15A	17A	20A	AvgRF	%RSD	COD	Cur
BROMODICHLOROMETHANE		0.428	0.472	0.426	0.363	0.361	0.366	0.376	0.346	0.362	0.36										0.386048	10.69	0.107	1
a,a,a-Trifluorotoluene	0.551	0.553	0.546	0.541	0.532	0.535	0.529	0.519	0.506	0.512	0.515										0.530836	3.06	0.031	1
-CHLOROETHYL VINYL ETHER					0.002	0.002	0.001	0.001	0.001												0.001361	25.18	0.995	0
CIS-1,3-DICHLOROPROPENE	0.517	0.535	0.513	0.534	0.486	0.487	0.506	0.519	0.479	0.502	0.503										0.507447	3.65	0.036	1
-METHYL-2-PENTANONE (MIBK)	0.115	0.14	0.124	0.129	0.117	0.117	0.116	0.124	0.11	0.115	0.116										0.120179	6.9	0.069	1
TOLUENE-D8	1.228	1.235	1.222	1.223	1.206	1.198	1.201	1.185	1.167	1.186	1.225										1.206827	1.79	0.018	1
TOLUENE		1.827	1.494	1.404	1.181	1.22	1.259	1.262	1.189	1.234	1.221										1.329238	15.13	0.151	1
TRANS-1,3-DICHLOROPROPENE		0.122	0.12	0.109	0.107	0.11	0.111	0.111	0.101	0.105	0.105										0.109978	6.02	0.06	1
8260-2-BROMO-1 -CHLOROPROPANE																								
1,1,2-TRICHLOROETHANE		2.144	1.803	1.727	1.501	1.486	1.576	1.557	1.463	1.504	1.486										1.624665	13.19	0.132	1
TETRACHLOROETHENE	1.424	1.489	1.259	1.329	1.151	1.242	1.294	1.259	1.186	1.213	1.153										1.272628	8.42	0.084	1
1,3-Dichloropropane	3.291	3.135	2.935	2.779	2.579	2.606	2.682	2.716	2.526	2.614	2.541										2.76407	9.17	0.092	1
2-HEXANONE	0.745	0.807	0.806	0.831	0.717	0.715	0.727	0.768	0.691	0.714	0.706										0.747829	6.38	0.064	1
CHLORODIBROMOMETHANE	1.405	1.502	1.503	1.52	1.362	1.447	1.521	1.568	1.483	1.563	1.535										1.491787	4.3	0.043	1
1,2-DIBROMOETHANE	1.383	1.636	1.653	1.668	1.552	1.52	1.573	1.611	1.51	1.58	1.567										1.568449	5.1	0.051	1
CHLOROBENZENE	4.869	5.472	5.215	5.123	4.464	4.615	4.921	4.765	4.495	4.612	4.377										4.811573	7.21	0.072	1
1,1,1,2-TETRACHLOROETHANE	1.312	1.466	1.51	1.454	1.332	1.357	1.418	1.371	1.304	1.365	1.34										1.384518	4.91	0.049	1
ETHYLBENZENE	2.939	2.877	2.844	2.827	2.463	2.739	2.803	2.73	2.595	2.645	2.503										2.724073	5.7	0.057	1
M&P-XYLENE	4.211	4.059	3.664	3.553	3.162	3.264	3.386	3.297	3.126	3.213	3.036										3.451851	11.16	0.112	1
O-XYLENE	3.575	3.779	3.588	3.482	3.098	3.187	3.363	3.332	3.168	3.289	3.174										3.366873	6.4	0.064	1
STYRENE	5.215	5.913	5.775	5.412	4.979	5.208	5.488	5.427	5.131	5.348	5.169										5.36964	5.2	0.052	1
Bromoform	0.655	1.067	0.857	0.999	0.907	0.896	0.923	0.943	0.896	0.94	0.968										0.914	11.27	0.113	1

PDF Generated On: 11/25/2014 -- By: Amy Green

Environmental Science Corporation
12065 Lebanon Rd., Mt. Juliet, TN 37122

INITIAL CALIBRATION SUMMARY

Instrument ID	: VOCMS7	Review Method	: 8260SC	Released By	: Amy Green
Method	: V807K24N	Review Protocol	: SC	Released On	: 11/25/2014 2:16:48 PM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- V807K24N -- ICal Updated Time: Tue Nov 25 14:00:56 2014

Parameter	.25	.5	1	2	5.0	10	25	40	75	100	200	1A	2.5A	5A	7.5A	10A	12A	15A	17A	20A	AvgRF	%RSD	COD	Cur
Isopropylbenzene	8.619	9.164	9.042	8.68	7.722	8.11	8.52	8.428	7.952	8.251	7.881										8.397252	5.55	0.056	1
4-BROMOFLUOROBENZENE	2.861	2.76	2.798	2.736	2.747	2.742	2.818	2.787	2.831	2.823	2.814										2.792403	1.48	0.015	1
Bromobenzene	4.128	4.298	3.719	3.724	3.38	3.439	3.537	3.482	3.281	3.372	3.206										3.597081	9.62	0.096	1
1,1,2,2-TETRACHLOROETHANE	2.881	2.756	2.573	2.499	2.146	2.096	2.126	2.192	2.016	2.107	2.118										2.319035	13.03	0.13	1
1,2,3-TRICHLOROPROPANE		0.628	0.628	0.527	0.53	0.505	0.5	0.513	0.476	0.502	0.505										0.531509	9.99	0.1	1
TRANS-1,4-DICHLORO-2-BUTENE		0.617	0.541	0.603	0.534	0.501	0.545	0.55	0.524	0.533	0.549										0.549722	6.37	0.064	1
n-Propylbenzene	10.73	10.71	10.67	10.41	9.139999	9.55	10.21	9.99	9.53	9.75	9.21										9.98957	5.95	0.059	1
4-ETHYLTOLUENE	9.824	9.164	8.804	8.695	7.499	7.8	8.222	8.138	7.707	7.946	7.537										8.303356	8.9	0.089	1
2-Chlorotoluene	1.982	2.039	2.087	1.993	1.659	1.726	1.819	1.799	1.7	1.753	1.676										1.839298	8.52	0.085	1
4-Chlorotoluene	7.156	6.846	6.481	6.276	5.566	5.758	6.078	6.043	5.743	5.956	5.761										6.151283	8.11	0.081	1
1,3,5-Trimethylbenzene	7.485	7.719	7.177	7.241	6.104	6.475	6.76	6.643	6.271	6.449	6.036										6.760126	8.41	0.084	1
tert-Butylbenzene	5.483	5.847	6.164	5.93	5.199	5.484	5.743	5.776	5.504	5.672	5.376										5.652434	4.88	0.049	1
1,2,4-Trimethylbenzene	8.693	8.139	7.595	7.338	6.436	6.562	6.789	6.737	6.44	6.624	6.334										7.062626	11.07	0.111	1
sec-Butylbenzene	9.5	10.14	9.59	9.8	8.49	8.79	9.3	9.2	8.77	9.08	8.58										9.20482	5.7	0.057	1
1,3-DICHLOROBENZENE	3.891	3.852	3.906	3.734	3.43	3.479	3.666	3.651	3.521	3.642	3.508										3.661894	4.61	0.046	1
p-Isopropyltoluene	7.523	8.022	7.986	7.724	6.767	7.071	7.334	7.33	6.953	7.109	6.623										7.312794	6.37	0.064	1
DICYCLOPENTADIENE	8.165	8.871	8.771	8.972	7.753	8.028	8.467	8.264	7.728	7.925	7.388										8.211851	6.25	0.063	1
8260-1,4-DICHLOROBENZENE-D4																								
1,4-DICHLOROBENZENE	1.298	1.313	1.344	1.309	1.176	1.215	1.253	1.281	1.193	1.243	1.189										1.255794	4.56	0.046	1
1,2,3-TRIMETHYLBENZENE	2.92	2.726	2.634	2.56	2.268	2.272	2.359	2.407	2.211	2.301	2.198										2.441503	9.68	0.097	1
1,2-DICHLOROBENZENE	1.23	1.304	1.29	1.242	1.176	1.168	1.221	1.279	1.177	1.236	1.213										1.230559	3.78	0.038	1
sec-Butylbenzene	2.635	2.857	2.739	2.663	2.355	2.418	2.559	2.63	2.418	2.508	2.342										2.556648	6.48	0.065	1

PDF Generated On: 11/25/2014 -- By: Amy Green

Environmental Science Corporation
12065 Lebanon Rd., Mt. Juliet, TN 37122

INITIAL CALIBRATION SUMMARY

Instrument ID	: VOCMS7	Review Method	: 8260SC	Released By	: Amy Green
Method	: V807K24N	Review Protocol	: SC	Released On	: 11/25/2014 2:16:48 PM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- V807K24N -- ICal Updated Time: Tue Nov 25 14:00:56 2014

Parameter	.25	.5	1	2	5.0	10	25	40	75	100	200	1A	2.5A	5A	7.5A	10A	12A	15A	17A	20A	AvgRF	%RSD	COD	Cur
1,2-Dibromo-3-chloropropane		0.124	0.133	0.148	0.142	0.146	0.149	0.171	0.151	0.159	0.167										0.14906	9.59	0.096	1
1,2,4-Trichlorobenzene	0.721	0.896	0.797	0.813	0.732	0.724	0.767	0.82	0.733	0.758	0.686										0.767723	7.77	0.078	1
HEXACHLORO-1,3-BUTADIENE	0.3	0.426	0.401	0.362	0.329	0.353	0.365	0.396	0.36	0.368	0.35										0.364552	9.47	0.095	1
Naphthalene	2.305	2.396	2.297	2.305	2.12	2.105	2.162	2.403	2.14	2.218	2.115										2.233375	5.05	0.05	1
1,2,3-Trichlorobenzene	0.646	0.777	0.765	0.702	0.679	0.644	0.666	0.733	0.652	0.674	0.625										0.687567	7.38	0.074	1
1-Methylnaphthalene	1.167	1.071	0.986	1.017	0.863	0.907	0.942	1.073	0.946	0.99	0.899										0.987229	9.11	0.091	1
2-Methylnaphthalene	0.676	0.826	0.8	0.821	0.774	0.739	0.767	0.868	0.765	0.792	0.709										0.776025	7.03	0.07	1
AP9-PENTAFLUOROBENZENE																								
ETHANOL												0.009	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.007935	4.29	0.043	1
Bromoethane												0.342	0.298	0.31	0.318	0.329	0.317	0.311	0.31	0.318	0.31706	3.95	0.04	1
2-PROPANOL												0.059	0.046	0.043	0.041	0.043	0.042	0.042	0.041	0.039	0.044106	13.54	0.135	1
Methyl Acetate												0.336	0.346	0.33	0.329	0.327	0.333	0.332	0.318	0.311	0.329024	3.06	0.031	1
ACETONITRILE												0.067	0.069	0.066	0.067	0.067	0.069	0.069	0.065	0.065	0.067276	2.3	0.023	1
ALLYL CHLORIDE												0.255	0.261	0.249	0.252	0.251	0.247	0.251	0.244	0.244	0.250318	2.19	0.022	1
tert-BUTYL ALCOHOL												0.097	0.1	0.092	0.094	0.09	0.094	0.09	0.086	0.083	0.091829	5.62	0.056	1
chloroprene												0.441	0.464	0.449	0.446	0.437	0.441	0.437	0.427	0.424	0.4408	2.68	0.027	1
ETHYL TERT-BUTYL ETHER												1.568	1.598	1.566	1.558	1.523	1.556	1.551	1.521	1.506	1.549674	1.83	0.018	1
PROPIONITRILE												0.073	0.074	0.071	0.07	0.069	0.07	0.07	0.067	0.065	0.069822	3.71	0.037	1
Ethyl Acetate												0.51	0.517	0.49	0.487	0.486	0.493	0.496	0.475	0.465	0.491176	3.28	0.033	1
METHACRYLONITRILE												0.221	0.223	0.21	0.208	0.203	0.205	0.205	0.196	0.193	0.207153	4.86	0.049	1
Cyclohexane												0.669	0.643	0.633	0.635	0.636	0.639	0.634	0.622	0.629	0.6377	2.05	0.02	1
tert-butyl formate												0.454	0.46	0.451	0.446	0.446	0.446	0.445	0.427	0.429	0.444887	2.41	0.024	1
ISOBUTANOL												0.032	0.031	0.029	0.03	0.029	0.03	0.03	0.029	0.028	0.029901	3.33	0.033	1

PDF Generated On: 11/25/2014 -- By: Amy Green

Environmental Science Corporation
12065 Lebanon Rd., Mt. Juliet, TN 37122

INITIAL CALIBRATION SUMMARY

Instrument ID	: VOCMS7	Review Method	: 8260SC	Released By	: Amy Green
Method	: V807K24N	Review Protocol	: SC	Released On	: 11/25/2014 2:16:48 PM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- V807K24N -- ICal Updated Time: Tue Nov 25 14:00:56 2014

Parameter	.25	.5	1	2	5.0	10	25	40	75	100	200	1A	2.5A	5A	7.5A	10A	12A	15A	17A	20A	AvgRF	%RSD	COD	Cur
-Amyl Alcohol												0.057	0.056	0.051	0.054	0.053	0.059	0.056	0.053	0.049	0.05406	5.62	0.056	1
TERT-AMYL METHYL ETHER												1.442	1.425	1.367	1.321	1.285	1.293	1.271	1.261	1.237	1.322539	5.53	0.055	1
AP9-1,4-DIFLUOROBENZENE																								
N-BUTANOL												0.01	0.011	0.01	0.01	0.01	0.011	0.01	0.01	0.01	0.010227	2.62	0.026	1
Methyl Cyclohexane												0.832	0.582	0.493	0.476	0.452	0.439	0.437	0.43	0.43	0.507748	25.75	1	0
-nitropropane												0.102	0.073	0.073	0.073	0.069	0.072	0.073	0.072	0.07	0.075143	13.57	0.136	1
METHYL METHACRYLATE												0.25	0.237	0.235	0.232	0.226	0.231	0.234	0.227	0.227	0.233314	3.11	0.031	1
1,4-DIOXANE												0.003	0.003	0.004	0.004	0.003	0.004	0.004	0.004	0.003	0.003514	3.84	0.038	1
n-octane												0.267	0.245	0.255	0.241	0.236	0.241	0.238	0.236	0.238	0.244017	4.3	0.043	1
3,3-DIMETHYL-1-BUTANOL												0.033	0.033	0.031	0.029	0.031	0.033	0.032	0.032	0.032	0.031897	4.18	0.042	1
AP9-2-BROMO-1 -CHLOROPROPANE																								
ETHYL METHACRYLATE												2.341	2.339	2.237	2.228	2.255	2.239	2.252	2.223	2.239	2.261416	2.02	0.02	1
CIS-1,4-DICHLORO-2-BUTENE												0.509	0.52	0.505	0.503	0.529	0.517	0.527	0.52	0.519	0.51655	1.72	0.017	1
Cyclohexanone																					0	0	0	1
PENTACHLOROETHANE												1.152	1.092	1.034	1.082	1.073	1.044	1.081	1.048	1.092	1.077488	3.26	0.033	1
Hexachloroethane												1.176	1.235	1.276	1.265	1.272	1.25	1.29	1.311	1.345	1.268945	3.76	0.038	1
AP9-1,4-DICHLOROBENZENE-D4																								

PDF Generated On: 11/25/2014 - By: Amy Green

Environmental Science Corporation
12065 Lebanon Rd., Mt. Juliet, TN 37122

INITIAL CALIBRATION SUMMARY

Instrument ID	: VOCMS7	Review Method	: 8260B	Released By	: Amy Green
Method	: V807K24N	Review Protocol	: SW846	Released On	: 11/25/2014 2:17:22 PM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- V807K24N -- ICal Updated Time: Tue Nov 25 14:00:56 2014

Parameter	.25	.5	1	2	5.0	10	25	40	75	100	200	1A	2.5A	5A	7.5A	10A	12A	15A	17A	20A	AvgRF	%RSD	COD	Cur
8260-PENTAFLUOROBENZENE																								
TPH (GC/MS) LOW FRACTION																					0	0	0	1
PROPENE				0.172	0.138	0.115	0.124	0.128	0.12	0.13	0.135										0.132596	13.24	0.132	1
DICHLORODIFLUOROMETHANE	0.63	0.614	0.631	0.584	0.477	0.521	0.542	0.574	0.559	0.575	0.589										0.572321	8.15	0.082	1
CHLOROMETHANE	0.662	0.686	0.756	0.692	0.614	0.641	0.682	0.703	0.671	0.7	0.714										0.683859	5.5	0.055	1
VINYL CHLORIDE	0.461	0.694	0.676	0.72	0.596	0.686	0.712	0.744	0.702	0.726	0.732										0.677257	12.1	0.121	1
1,3-BUTADIENE			0.616	0.515	0.451	0.48	0.487	0.501	0.469	0.476	0.46										0.495021	9.95	0.099	1
BROMOMETHANE				0.267	0.211	0.203	0.196	0.212	0.21	0.22	0.232										0.218857	10.2	0.102	1
CHLOROETHANE					0.106	0.113	0.106	0.099	0.079												0.100451	12.76	0.128	1
TRICHLOROFLUOROMETHANE	0.5	0.661	0.655	0.664	0.563	0.656	0.669	0.683	0.64	0.656	0.637										0.635003	8.56	0.086	1
DICHLOROFLUOROMETHANE	1.191	0.985	0.914	0.968	0.887	0.895	0.954	0.977	0.915	0.943	0.928										0.95967	8.69	0.087	1
ETHYL ETHER	0.373	0.473	0.439	0.458	0.415	0.434	0.446	0.462	0.429	0.436	0.44										0.436677	6.12	0.061	1
ACROLEIN			0.097	0.085	0.075	0.075	0.073	0.078	0.071	0.075	0.078										0.07849	10.21	0.102	1
1,1-DICHLOROETHENE	0.63	0.754	0.768	0.775	0.663	0.73	0.782	0.806	0.737	0.754	0.74										0.739946	6.98	0.07	1
1,1,2 -TRICHLOROTRIFLUOROETHANE	0.415	0.473	0.486	0.485	0.421	0.469	0.496	0.507	0.467	0.482	0.471										0.470187	6.04	0.06	1
ACETONE			0.18	0.169	0.139	0.139	0.132	0.144	0.126	0.129	0.137										0.143924	12.84	0.128	1
IODOMETHANE		0.481	0.477	0.483	0.449	0.51	0.575	0.613	0.609	0.645	0.657										0.549884	14.18	0.142	1
CARBON DISULFIDE	2.467	2.303	2.046	1.953	1.669	1.81	1.85	1.886	1.742	1.792	1.769										1.935129	12.78	0.128	1
METHYLENE CHLORIDE		0.721	0.676	0.633	0.54	0.547	0.563	0.583	0.55	0.564	0.571										0.594864	10.32	0.103	1
ACRYLONITRILE	0.197	0.205	0.217	0.218	0.194	0.194	0.193	0.207	0.187	0.193	0.201										0.200472	5.08	0.051	1
n-Hexane			0.726	0.631	0.502	0.523	0.538	0.531	0.49	0.499	0.49										0.547667	14.53	0.145	1
TRANS-1,2-DICHLOROETHENE	0.732	0.668	0.574	0.578	0.502	0.538	0.561	0.572	0.535	0.553	0.551										0.57858	11.32	0.113	1

PDF Generated On: 11/25/2014 - By: Amy Green

Environmental Science Corporation
12065 Lebanon Rd., Mt. Juliet, TN 37122

INITIAL CALIBRATION SUMMARY

Instrument ID	: VOCMS7	Review Method	: 8260B	Released By	: Amy Green
Method	: V807K24N	Review Protocol	: SW846	Released On	: 11/25/2014 2:17:22 PM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- V807K24N -- ICal Updated Time: Tue Nov 25 14:00:56 2014

Parameter	.25	.5	1	2	5.0	10	25	40	75	100	200	1A	2.5A	5A	7.5A	10A	12A	15A	17A	20A	AvgRF	%RSD	COD	Cur
METHYL TERT-BUTYL ETHER	1.406	1.588	1.54	1.608	1.452	1.442	1.474	1.532	1.402	1.439	1.459										1.485626	4.75	0.047	1
,1-DICHLOROETHANE	0.872	0.997	1.009	0.995	0.869	0.929	0.99	1.024	0.947	0.977	0.985										0.962997	5.48	0.055	1
VINYL ACETATE	0.889	0.99	0.95	0.93	0.911	0.88	0.859	0.925	0.797	0.886	0.833										0.895583	6.06	0.061	1
DI-ISOPROPYL ETHER	1.822	2.017	1.989	1.87	1.718	1.736	1.783	1.848	1.711	1.766	1.758										1.819844	5.71	0.057	1
2,2-Dichloropropane	0.785	0.811	0.893	0.827	0.73	0.757	0.796	0.804	0.745	0.777	0.77										0.790431	5.63	0.056	1
CIS-1,2-DICHLOROETHENE	0.695	0.65	0.641	0.633	0.544	0.584	0.602	0.614	0.573	0.595	0.6										0.611918	6.78	0.068	1
-BUTANONE (MEK)	0.058	0.078	0.084	0.077	0.066	0.07	0.069	0.074	0.066	0.069	0.072										0.071185	10.04	0.1	1
BROMOCHLOROMETHANE	0.264	0.335	0.33	0.332	0.305	0.315	0.327	0.342	0.312	0.321	0.316										0.31816	6.64	0.066	1
TETRAHYDROFURAN					0.198	0.168	0.164	0.18	0.158	0.165	0.166										0.171174	7.77	0.078	1
CHLOROFORM	1.204	1.142	1.044	0.945	0.813	0.836	0.889	0.902	0.847	0.878	0.874										0.943129	13.79	0.138	1
DIBROMOFLUOROMETHANE	0.512	0.521	0.521	0.518	0.513	0.516	0.521	0.524	0.515	0.515	0.508										0.516717	0.91	0.009	1
1,1,1-TRICHLOROETHANE	1.01	0.892	0.809	0.745	0.635	0.692	0.707	0.732	0.684	0.706	0.711										0.756578	14.31	0.143	1
CARBON TETRACHLORIDE	0.518	0.595	0.572	0.581	0.473	0.528	0.567	0.583	0.554	0.577	0.562										0.555503	6.48	0.065	1
1,1-Dichloropropene	0.722	0.763	0.777	0.799	0.697	0.733	0.768	0.789	0.732	0.753	0.756										0.753563	4.05	0.041	1
2,2,4-TRIMETHYLPENTANE	2.595	2.66	2.593	2.562	2.085	2.365	2.36	2.394	2.216	2.282	2.269										2.398274	7.65	0.076	1
HEPTANE	1.251	1.06	1.096	0.963	0.861	0.899	0.935	0.95	0.883	0.898	0.881										0.970658	12.27	0.123	1
BENZENE	2.4	2.505	2.458	2.383	2.04	2.127	2.224	2.257	2.128	2.186	2.213										2.265619	6.64	0.066	1
1,2-DICHLOROETHANE	0.526	0.575	0.606	0.615	0.576	0.567	0.592	0.625	0.581	0.606	0.617										0.589747	4.87	0.049	1
8260-1,4-DIFLUOROBENZENE																								
TRICHLOROETHENE	0.285	0.303	0.294	0.306	0.256	0.275	0.288	0.291	0.274	0.286	0.284										0.285544	4.84	0.048	1
,2-DICHLOROPROPANE	0.188	0.235	0.254	0.251	0.217	0.224	0.227	0.229	0.212	0.219	0.215										0.22446	8.22	0.082	1
DIBROMOMETHANE	0.142	0.198	0.17	0.171	0.158	0.157	0.167	0.171	0.162	0.17	0.17										0.16692	8.14	0.081	1

PDF Generated On: 11/25/2017 -- By: Amy Green

Environmental Science Corporation
12065 Lebanon Rd., Mt. Juliet, TN 37122

INITIAL CALIBRATION SUMMARY

Instrument ID	: VOCMS7	Review Method	: 8260B	Released By	: Amy Green
Method	: V807K24N	Review Protocol	: SW846	Released On	: 11/25/2014 2:17:22 PM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- V807K24N -- ICal Updated Time: Tue Nov 25 14:00:56 2014

Parameter	.25	.5	1	2	5.0	10	25	40	75	100	200	1A	2.5A	5A	7.5A	10A	12A	15A	17A	20A	AvgRF	%RSD	COD	Cur
BROMODICHLOROMETHANE		0.428	0.472	0.426	0.363	0.361	0.366	0.376	0.346	0.362	0.36										0.386048	10.69	0.107	1
a,a,a-Trifluorotoluene	0.551	0.553	0.546	0.541	0.532	0.535	0.529	0.519	0.506	0.512	0.515										0.530836	3.06	0.031	1
-CHLOROETHYL VINYL ETHER					0.002	0.002	0.001	0.001	0.001												0.001361	25.18	0.995	0
CIS-1,3-DICHLOROPROPENE	0.517	0.535	0.513	0.534	0.486	0.487	0.506	0.519	0.479	0.502	0.503										0.507447	3.65	0.036	1
-METHYL-2-PENTANONE (MIBK)	0.115	0.14	0.124	0.129	0.117	0.117	0.116	0.124	0.11	0.115	0.116										0.120179	6.9	0.069	1
TOLUENE-D8	1.228	1.235	1.222	1.223	1.206	1.198	1.201	1.185	1.167	1.186	1.225										1.206827	1.79	0.018	1
TOLUENE		1.827	1.494	1.404	1.181	1.22	1.259	1.262	1.189	1.234	1.221										1.329238	15.13	0.151	1
TRANS-1,3-DICHLOROPROPENE		0.122	0.12	0.109	0.107	0.11	0.111	0.111	0.101	0.105	0.105										0.109978	6.02	0.06	1
8260-2-BROMO-1 -CHLOROPROPANE																								
1,1,2-TRICHLOROETHANE		2.144	1.803	1.727	1.501	1.486	1.576	1.557	1.463	1.504	1.486										1.624665	13.19	0.132	1
TETRACHLOROETHENE	1.424	1.489	1.259	1.329	1.151	1.242	1.294	1.259	1.186	1.213	1.153										1.272628	8.42	0.084	1
1,3-Dichloropropane	3.291	3.135	2.935	2.779	2.579	2.606	2.682	2.716	2.526	2.614	2.541										2.76407	9.17	0.092	1
2-HEXANONE	0.745	0.807	0.806	0.831	0.717	0.715	0.727	0.768	0.691	0.714	0.706										0.747829	6.38	0.064	1
CHLORODIBROMOMETHANE	1.405	1.502	1.503	1.52	1.362	1.447	1.521	1.568	1.483	1.563	1.535										1.491787	4.3	0.043	1
1,2-DIBROMOETHANE	1.383	1.636	1.653	1.668	1.552	1.52	1.573	1.611	1.51	1.58	1.567										1.568449	5.1	0.051	1
CHLOROBENZENE	4.869	5.472	5.215	5.123	4.464	4.615	4.921	4.765	4.495	4.612	4.377										4.811573	7.21	0.072	1
1,1,1,2-TETRACHLOROETHANE	1.312	1.466	1.51	1.454	1.332	1.357	1.418	1.371	1.304	1.365	1.34										1.384518	4.91	0.049	1
ETHYLBENZENE	2.939	2.877	2.844	2.827	2.463	2.739	2.803	2.73	2.595	2.645	2.503										2.724073	5.7	0.057	1
M&P-XYLENE	4.211	4.059	3.664	3.553	3.162	3.264	3.386	3.297	3.126	3.213	3.036										3.451851	11.16	0.112	1
O-XYLENE	3.575	3.779	3.588	3.482	3.098	3.187	3.363	3.332	3.168	3.289	3.174										3.366873	6.4	0.064	1
STYRENE	5.215	5.913	5.775	5.412	4.979	5.208	5.488	5.427	5.131	5.348	5.169										5.36964	5.2	0.052	1
Bromoform	0.655	1.067	0.857	0.999	0.907	0.896	0.923	0.943	0.896	0.94	0.968										0.914	11.27	0.113	1

PDF Generated On: 11/25/2014 -- By: Amy Green

Environmental Science Corporation
12065 Lebanon Rd., Mt. Juliet, TN 37122

INITIAL CALIBRATION SUMMARY

Instrument ID	: VOCMS7	Review Method	: 8260B	Released By	: Amy Green
Method	: V807K24N	Review Protocol	: SW846	Released On	: 11/25/2014 2:17:22 PM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- V807K24N -- ICal Updated Time: Tue Nov 25 14:00:56 2014

Parameter	.25	.5	1	2	5.0	10	25	40	75	100	200	1A	2.5A	5A	7.5A	10A	12A	15A	17A	20A	AvgRF	%RSD	COD	Cur
Isopropylbenzene	8.619	9.164	9.042	8.68	7.722	8.11	8.52	8.428	7.952	8.251	7.881										8.397252	5.55	0.056	1
4-BROMOFLUOROBENZENE	2.861	2.76	2.798	2.736	2.747	2.742	2.818	2.787	2.831	2.823	2.814										2.792403	1.48	0.015	1
Bromobenzene	4.128	4.298	3.719	3.724	3.38	3.439	3.537	3.482	3.281	3.372	3.206										3.597081	9.62	0.096	1
1,1,2,2-TETRACHLOROETHANE	2.881	2.756	2.573	2.499	2.146	2.096	2.126	2.192	2.016	2.107	2.118										2.319035	13.03	0.13	1
1,2,3-TRICHLOROPROPANE		0.628	0.628	0.527	0.53	0.505	0.5	0.513	0.476	0.502	0.505										0.531509	9.99	0.1	1
TRANS-1,4-DICHLORO-2-BUTENE		0.617	0.541	0.603	0.534	0.501	0.545	0.55	0.524	0.533	0.549										0.549722	6.37	0.064	1
n-Propylbenzene	10.73	10.71	10.67	10.41	9.139999	9.55	10.21	9.99	9.53	9.75	9.21										9.98957	5.95	0.059	1
4-ETHYLTOLUENE	9.824	9.164	8.804	8.695	7.499	7.8	8.222	8.138	7.707	7.946	7.537										8.303356	8.9	0.089	1
2-Chlorotoluene	1.982	2.039	2.087	1.993	1.659	1.726	1.819	1.799	1.7	1.753	1.676										1.839298	8.52	0.085	1
4-Chlorotoluene	7.156	6.846	6.481	6.276	5.566	5.758	6.078	6.043	5.743	5.956	5.761										6.151283	8.11	0.081	1
1,3,5-Trimethylbenzene	7.485	7.719	7.177	7.241	6.104	6.475	6.76	6.643	6.271	6.449	6.036										6.760126	8.41	0.084	1
tert-Butylbenzene	5.483	5.847	6.164	5.93	5.199	5.484	5.743	5.776	5.504	5.672	5.376										5.652434	4.88	0.049	1
1,2,4-Trimethylbenzene	8.693	8.139	7.595	7.338	6.436	6.562	6.789	6.737	6.44	6.624	6.334										7.062626	11.07	0.111	1
sec-Butylbenzene	9.5	10.14	9.59	9.8	8.49	8.79	9.3	9.2	8.77	9.08	8.58										9.20482	5.7	0.057	1
1,3-DICHLOROBENZENE	3.891	3.852	3.906	3.734	3.43	3.479	3.666	3.651	3.521	3.642	3.508										3.661894	4.61	0.046	1
p-Isopropyltoluene	7.523	8.022	7.986	7.724	6.767	7.071	7.334	7.33	6.953	7.109	6.623										7.312794	6.37	0.064	1
DICYCLOPENTADIENE	8.165	8.871	8.771	8.972	7.753	8.028	8.467	8.264	7.728	7.925	7.388										8.211851	6.25	0.063	1
8260-1,4-DICHLOROBENZENE-D4																								
1,4-DICHLOROBENZENE	1.298	1.313	1.344	1.309	1.176	1.215	1.253	1.281	1.193	1.243	1.189										1.255794	4.56	0.046	1
1,2,3-TRIMETHYLBENZENE	2.92	2.726	2.634	2.56	2.268	2.272	2.359	2.407	2.211	2.301	2.198										2.441503	9.68	0.097	1
1,2-DICHLOROBENZENE	1.23	1.304	1.29	1.242	1.176	1.168	1.221	1.279	1.177	1.236	1.213										1.230559	3.78	0.038	1
n-Butylbenzene	2.635	2.857	2.739	2.663	2.355	2.418	2.559	2.63	2.418	2.508	2.342										2.556648	6.48	0.065	1

PDF Generated On: 11/25/2014 -- By: Amy Green

Environmental Science Corporation
12065 Lebanon Rd., Mt. Juliet, TN 37122

INITIAL CALIBRATION SUMMARY

Instrument ID	: VOCMS7	Review Method	: 8260B	Released By	: Amy Green
Method	: V807K24N	Review Protocol	: SW846	Released On	: 11/25/2014 2:17:22 PM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- V807K24N -- ICal Updated Time: Tue Nov 25 14:00:56 2014

Parameter	.25	.5	1	2	5.0	10	25	40	75	100	200	1A	2.5A	5A	7.5A	10A	12A	15A	17A	20A	AvgRF	%RSD	COD	Cur
1,2-Dibromo-3-chloropropane		0.124	0.133	0.148	0.142	0.146	0.149	0.171	0.151	0.159	0.167										0.14906	9.59	0.096	1
1,2,4-Trichlorobenzene	0.721	0.896	0.797	0.813	0.732	0.724	0.767	0.82	0.733	0.758	0.686										0.767723	7.77	0.078	1
HEXACHLORO-1,3-BUTADIENE	0.3	0.426	0.401	0.362	0.329	0.353	0.365	0.396	0.36	0.368	0.35										0.364552	9.47	0.095	1
Naphthalene	2.305	2.396	2.297	2.305	2.12	2.105	2.162	2.403	2.14	2.218	2.115										2.233375	5.05	0.05	1
1,2,3-Trichlorobenzene	0.646	0.777	0.765	0.702	0.679	0.644	0.666	0.733	0.652	0.674	0.625										0.687567	7.38	0.074	1
1-Methylnaphthalene	1.167	1.071	0.986	1.017	0.863	0.907	0.942	1.073	0.946	0.99	0.899										0.987229	9.11	0.091	1
2-Methylnaphthalene	0.676	0.826	0.8	0.821	0.774	0.739	0.767	0.868	0.765	0.792	0.709										0.776025	7.03	0.07	1
AP9-PENTAFLUOROBENZENE																								
ETHANOL												0.009	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.007935	4.29	0.043	1
Bromoethane												0.342	0.298	0.31	0.318	0.329	0.317	0.311	0.31	0.318	0.31706	3.95	0.04	1
2-PROPANOL												0.059	0.046	0.043	0.041	0.043	0.042	0.042	0.041	0.039	0.044106	13.54	0.135	1
Methyl Acetate												0.336	0.346	0.33	0.329	0.327	0.333	0.332	0.318	0.311	0.329024	3.06	0.031	1
ACETONITRILE												0.067	0.069	0.066	0.067	0.067	0.069	0.069	0.065	0.065	0.067276	2.3	0.023	1
ALLYL CHLORIDE												0.255	0.261	0.249	0.252	0.251	0.247	0.251	0.244	0.244	0.250318	2.19	0.022	1
tert-BUTYL ALCOHOL												0.097	0.1	0.092	0.094	0.09	0.094	0.09	0.086	0.083	0.091829	5.62	0.056	1
chloroprene												0.441	0.464	0.449	0.446	0.437	0.441	0.437	0.427	0.424	0.4408	2.68	0.027	1
ETHYL TERT-BUTYL ETHER												1.568	1.598	1.566	1.558	1.523	1.556	1.551	1.521	1.506	1.549674	1.83	0.018	1
PROPIONITRILE												0.073	0.074	0.071	0.07	0.069	0.07	0.07	0.067	0.065	0.069822	3.71	0.037	1
Ethyl Acetate												0.51	0.517	0.49	0.487	0.486	0.493	0.496	0.475	0.465	0.491176	3.28	0.033	1
METHACRYLONITRILE												0.221	0.223	0.21	0.208	0.203	0.205	0.205	0.196	0.193	0.207153	4.86	0.049	1
Cyclohexane												0.669	0.643	0.633	0.635	0.636	0.639	0.634	0.622	0.629	0.6377	2.05	0.02	1
tert-butyl formate												0.454	0.46	0.451	0.446	0.446	0.446	0.445	0.427	0.429	0.444887	2.41	0.024	1
ISOBUTANOL												0.032	0.031	0.029	0.03	0.029	0.03	0.03	0.029	0.028	0.029901	3.33	0.033	1

PDF Generated On: 11/25/2014 -- By: Amy Green

Environmental Science Corporation
12065 Lebanon Rd., Mt. Juliet, TN 37122

INITIAL CALIBRATION SUMMARY

Instrument ID	: VOCMS7	Review Method	: 8260B	Released By	: Amy Green
Method	: V807K24N	Review Protocol	: SW846	Released On	: 11/25/2014 2:17:22 PM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- V807K24N -- ICal Updated Time: Tue Nov 25 14:00:56 2014

Parameter	.25	.5	1	2	5.0	10	25	40	75	100	200	1A	2.5A	5A	7.5A	10A	12A	15A	17A	20A	AvgRF	%RSD	COD	Cur
-Amyl Alcohol												0.057	0.056	0.051	0.054	0.053	0.059	0.056	0.053	0.049	0.05406	5.62	0.056	1
TERT-AMYL METHYL ETHER												1.442	1.425	1.367	1.321	1.285	1.293	1.271	1.261	1.237	1.322539	5.53	0.055	1
AP9-1,4-DIFLUOROBENZENE																								
N-BUTANOL												0.01	0.011	0.01	0.01	0.01	0.011	0.01	0.01	0.01	0.010227	2.62	0.026	1
Methyl Cyclohexane												0.832	0.582	0.493	0.476	0.452	0.439	0.437	0.43	0.43	0.507748	25.75	1	0
-nitropropane												0.102	0.073	0.073	0.073	0.069	0.072	0.073	0.072	0.07	0.075143	13.57	0.136	1
METHYL METHACRYLATE												0.25	0.237	0.235	0.232	0.226	0.231	0.234	0.227	0.227	0.233314	3.11	0.031	1
1,4-DIOXANE												0.003	0.003	0.004	0.004	0.003	0.004	0.004	0.004	0.003	0.003514	3.84	0.038	1
n-octane												0.267	0.245	0.255	0.241	0.236	0.241	0.238	0.236	0.238	0.244017	4.3	0.043	1
3,3-DIMETHYL-1-BUTANOL												0.033	0.033	0.031	0.029	0.031	0.033	0.032	0.032	0.032	0.031897	4.18	0.042	1
AP9-2-BROMO-1 -CHLOROPROPANE																								
ETHYL METHACRYLATE												2.341	2.339	2.237	2.228	2.255	2.239	2.252	2.223	2.239	2.261416	2.02	0.02	1
CIS-1,4-DICHLORO-2-BUTENE												0.509	0.52	0.505	0.503	0.529	0.517	0.527	0.52	0.519	0.51655	1.72	0.017	1
Cyclohexanone																					0	0	0	1
PENTACHLOROETHANE												1.152	1.092	1.034	1.082	1.073	1.044	1.081	1.048	1.092	1.077488	3.26	0.033	1
Hexachloroethane												1.176	1.235	1.276	1.265	1.272	1.25	1.29	1.311	1.345	1.268945	3.76	0.038	1
AP9-1,4-DICHLOROBENZENE-D4																								

PDF Generated On: 11/25/2014 - By: Amy Green

Environmental Science Corporation
12065 Lebanon Rd., Mt. Juliet, TN 37122

INITIAL CALIBRATION SUMMARY

Instrument ID	: VOCMS7	Review Method	: 8260C	Released By	: Amy Green
Method	: V807K24N	Review Protocol	: SW846	Released On	: 11/25/2014 2:17:56 PM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- V807K24N -- ICal Updated Time: Tue Nov 25 14:00:56 2014

Parameter	.25	.5	1	2	5.0	10	25	40	75	100	200	1A	2.5A	5A	7.5A	10A	12A	15A	17A	20A	AvgRF	%RSD	COD	Cur	RF
8260-PENTAFLUOROBENZENE																									
TPH (GC/MS) LOW FRACTION																					0	0	0	1	
PROPENE				0.172	0.138	0.115	0.124	0.128	0.12	0.13	0.135										0.132596	13.24	0.132	1	
DICHLORODIFLUOROMETHANE	0.63	0.614	0.631	0.584	0.477	0.521	0.542	0.574	0.559	0.575	0.589										0.572321	8.15	0.082	1	0.1
CHLOROMETHANE	0.662	0.686	0.756	0.692	0.614	0.641	0.682	0.703	0.671	0.7	0.714										0.683859	5.5	0.055	1	0.1
VINYL CHLORIDE	0.461	0.694	0.676	0.72	0.596	0.686	0.712	0.744	0.702	0.726	0.732										0.677257	12.1	0.121	1	0.1
1,3-BUTADIENE			0.616	0.515	0.451	0.48	0.487	0.501	0.469	0.476	0.46										0.495021	9.95	0.099	1	
BROMOMETHANE				0.267	0.211	0.203	0.196	0.212	0.21	0.22	0.232										0.218857	10.2	0.102	1	0.1
CHLOROETHANE					0.106	0.113	0.106	0.099	0.079												0.100451	12.76	0.128	1	0.1
TRICHLOROFLUOROMETHANE	0.5	0.661	0.655	0.664	0.563	0.656	0.669	0.683	0.64	0.656	0.637										0.635003	8.56	0.086	1	0.1
DICHLOROFLUOROMETHANE	1.191	0.985	0.914	0.968	0.887	0.895	0.954	0.977	0.915	0.943	0.928										0.95967	8.69	0.087	1	
ETHYL ETHER	0.373	0.473	0.439	0.458	0.415	0.434	0.446	0.462	0.429	0.436	0.44										0.436677	6.12	0.061	1	
ACROLEIN			0.097	0.085	0.075	0.075	0.073	0.078	0.071	0.075	0.078										0.07849	10.21	0.102	1	
1,1-DICHLOROETHENE	0.63	0.754	0.768	0.775	0.663	0.73	0.782	0.806	0.737	0.754	0.74										0.739946	6.98	0.07	1	0.1
1,1,2 -TRICHLOROTRIFLUOROETHANE	0.415	0.473	0.486	0.485	0.421	0.469	0.496	0.507	0.467	0.482	0.471										0.470187	6.04	0.06	1	0.1
ACETONE			0.18	0.169	0.139	0.139	0.132	0.144	0.126	0.129	0.137										0.143924	12.84	0.128	1	0.1
IODOMETHANE		0.481	0.477	0.483	0.449	0.51	0.575	0.613	0.609	0.645	0.657										0.549884	14.18	0.142	1	
CARBON DISULFIDE	2.467	2.303	2.046	1.953	1.669	1.81	1.85	1.886	1.742	1.792	1.769										1.935129	12.78	0.128	1	0.1
METHYLENE CHLORIDE		0.721	0.676	0.633	0.54	0.547	0.563	0.583	0.55	0.564	0.571										0.594864	10.32	0.103	1	0.1
ACRYLONITRILE	0.197	0.205	0.217	0.218	0.194	0.194	0.193	0.207	0.187	0.193	0.201										0.200472	5.08	0.051	1	
n-Hexane			0.726	0.631	0.502	0.523	0.538	0.531	0.49	0.499	0.49										0.547667	14.53	0.145	1	
TRANS-1,2-DICHLOROETHENE	0.732	0.668	0.574	0.578	0.502	0.538	0.561	0.572	0.535	0.553	0.551										0.57858	11.32	0.113	1	0.1

PDF Generated On: 11/25/2014 - By: Amy Green

Environmental Science Corporation
12065 Lebanon Rd., Mt. Juliet, TN 37122

INITIAL CALIBRATION SUMMARY

Instrument ID	: VOCMS7	Review Method	: 8260C	Released By	: Amy Green
Method	: V807K24N	Review Protocol	: SW846	Released On	: 11/25/2014 2:17:56 PM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- V807K24N -- ICal Updated Time: Tue Nov 25 14:00:56 2014

Parameter	.25	.5	1	2	5.0	10	25	40	75	100	200	1A	2.5A	5A	7.5A	10A	12A	15A	17A	20A	AvgRF	%RSD	COD	Cur	RF
METHYL TERT-BUTYL ETHER	1.406	1.588	1.54	1.608	1.452	1.442	1.474	1.532	1.402	1.439	1.459										1.485626	4.75	0.047	1	0.1
,1-DICHLOROETHANE	0.872	0.997	1.009	0.995	0.869	0.929	0.99	1.024	0.947	0.977	0.985										0.962997	5.48	0.055	1	0.2
VINYL ACETATE	0.889	0.99	0.95	0.93	0.911	0.88	0.859	0.925	0.797	0.886	0.833										0.895583	6.06	0.061	1	
DI-ISOPROPYL ETHER	1.822	2.017	1.989	1.87	1.718	1.736	1.783	1.848	1.711	1.766	1.758										1.819844	5.71	0.057	1	
2,2-Dichloropropane	0.785	0.811	0.893	0.827	0.73	0.757	0.796	0.804	0.745	0.777	0.77										0.790431	5.63	0.056	1	
CIS-1,2-DICHLOROETHENE	0.695	0.65	0.641	0.633	0.544	0.584	0.602	0.614	0.573	0.595	0.6										0.611918	6.78	0.068	1	0.1
-BUTANONE (MEK)	0.058	0.078	0.084	0.077	0.066	0.07	0.069	0.074	0.066	0.069	0.072										0.071185	10.04	0.1	1	0.1
BROMOCHLOROMETHANE	0.264	0.335	0.33	0.332	0.305	0.315	0.327	0.342	0.312	0.321	0.316										0.31816	6.64	0.066	1	
TETRAHYDROFURAN					0.198	0.168	0.164	0.18	0.158	0.165	0.166										0.171174	7.77	0.078	1	
CHLOROFORM	1.204	1.142	1.044	0.945	0.813	0.836	0.889	0.902	0.847	0.878	0.874										0.943129	13.79	0.138	1	0.2
DIBROMOFLUOROMETHANE	0.512	0.521	0.521	0.518	0.513	0.516	0.521	0.524	0.515	0.515	0.508										0.516717	0.91	0.009	1	
1,1,1-TRICHLOROETHANE	1.01	0.892	0.809	0.745	0.635	0.692	0.707	0.732	0.684	0.706	0.711										0.756578	14.31	0.143	1	0.1
CARBON TETRACHLORIDE	0.518	0.595	0.572	0.581	0.473	0.528	0.567	0.583	0.554	0.577	0.562										0.555503	6.48	0.065	1	0.1
1,1-Dichloropropene	0.722	0.763	0.777	0.799	0.697	0.733	0.768	0.789	0.732	0.753	0.756										0.753563	4.05	0.041	1	
2,2,4-TRIMETHYLPENTANE	2.595	2.66	2.593	2.562	2.085	2.365	2.36	2.394	2.216	2.282	2.269										2.398274	7.65	0.076	1	
HEPTANE	1.251	1.06	1.096	0.963	0.861	0.899	0.935	0.95	0.883	0.898	0.881										0.970658	12.27	0.123	1	
BENZENE	2.4	2.505	2.458	2.383	2.04	2.127	2.224	2.257	2.128	2.186	2.213										2.265619	6.64	0.066	1	0.5
1,2-DICHLOROETHANE	0.526	0.575	0.606	0.615	0.576	0.567	0.592	0.625	0.581	0.606	0.617										0.589747	4.87	0.049	1	0.1
8260-1,4-DIFLUOROBENZENE																									
TRICHLOROETHENE	0.285	0.303	0.294	0.306	0.256	0.275	0.288	0.291	0.274	0.286	0.284										0.285544	4.84	0.048	1	0.2
,2-DICHLOROPROPANE	0.188	0.235	0.254	0.251	0.217	0.224	0.227	0.229	0.212	0.219	0.215										0.22446	8.22	0.082	1	0.1
DIBROMOMETHANE	0.142	0.198	0.17	0.171	0.158	0.157	0.167	0.171	0.162	0.17	0.17										0.16692	8.14	0.081	1	

PDF Generated On: 11/25/2014 -- By: Amy Green

Environmental Science Corporation
12065 Lebanon Rd., Mt. Juliet, TN 37122

INITIAL CALIBRATION SUMMARY

Instrument ID	: VOCMS7	Review Method	: 8260C	Released By	: Amy Green
Method	: V807K24N	Review Protocol	: SW846	Released On	: 11/25/2014 2:17:56 PM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- V807K24N -- ICal Updated Time: Tue Nov 25 14:00:56 2014

Parameter	.25	.5	1	2	5.0	10	25	40	75	100	200	1A	2.5A	5A	7.5A	10A	12A	15A	17A	20A	AvgRF	%RSD	COD	Cur	RF
BROMODICHLOROMETHANE		0.428	0.472	0.426	0.363	0.361	0.366	0.376	0.346	0.362	0.36										0.386048	10.69	0.107	1	0.2
a,a,a-Trifluorotoluene	0.551	0.553	0.546	0.541	0.532	0.535	0.529	0.519	0.506	0.512	0.515										0.530836	3.06	0.031	1	
-CHLOROETHYL VINYL ETHER					0.002	0.002	0.001	0.001	0.001												0.001361	25.18	0.995	0	
CIS-1,3-DICHLOROPROPENE	0.517	0.535	0.513	0.534	0.486	0.487	0.506	0.519	0.479	0.502	0.503										0.507447	3.65	0.036	1	0.2
-METHYL-2-PENTANONE (MIBK)	0.115	0.14	0.124	0.129	0.117	0.117	0.116	0.124	0.11	0.115	0.116										0.120179	6.9	0.069	1	0.1
TOLUENE-D8	1.228	1.235	1.222	1.223	1.206	1.198	1.201	1.185	1.167	1.186	1.225										1.206827	1.79	0.018	1	
TOLUENE		1.827	1.494	1.404	1.181	1.22	1.259	1.262	1.189	1.234	1.221										1.329238	15.13	0.151	1	0.4
TRANS-1,3-DICHLOROPROPENE		0.122	0.12	0.109	0.107	0.11	0.111	0.111	0.101	0.105	0.105										0.109978	6.02	0.06	1	0.1
8260-2-BROMO-1 -CHLOROPROPANE																									
1,1,2-TRICHLOROETHANE		2.144	1.803	1.727	1.501	1.486	1.576	1.557	1.463	1.504	1.486										1.624665	13.19	0.132	1	0.1
TETRACHLOROETHENE	1.424	1.489	1.259	1.329	1.151	1.242	1.294	1.259	1.186	1.213	1.153										1.272628	8.42	0.084	1	0.2
1,3-Dichloropropane	3.291	3.135	2.935	2.779	2.579	2.606	2.682	2.716	2.526	2.614	2.541										2.76407	9.17	0.092	1	
2-HEXANONE	0.745	0.807	0.806	0.831	0.717	0.715	0.727	0.768	0.691	0.714	0.706										0.747829	6.38	0.064	1	0.1
CHLORODIBROMOMETHANE	1.405	1.502	1.503	1.52	1.362	1.447	1.521	1.568	1.483	1.563	1.535										1.491787	4.3	0.043	1	0.1
1,2-DIBROMOETHANE	1.383	1.636	1.653	1.668	1.552	1.52	1.573	1.611	1.51	1.58	1.567										1.568449	5.1	0.051	1	0.1
CHLOROBENZENE	4.869	5.472	5.215	5.123	4.464	4.615	4.921	4.765	4.495	4.612	4.377										4.811573	7.21	0.072	1	0.5
1,1,1,2-TETRACHLOROETHANE	1.312	1.466	1.51	1.454	1.332	1.357	1.418	1.371	1.304	1.365	1.34										1.384518	4.91	0.049	1	
ETHYLBENZENE	2.939	2.877	2.844	2.827	2.463	2.739	2.803	2.73	2.595	2.645	2.503										2.724073	5.7	0.057	1	0.1
M&P-XYLENE	4.211	4.059	3.664	3.553	3.162	3.264	3.386	3.297	3.126	3.213	3.036										3.451851	11.16	0.112	1	0.1
O-XYLENE	3.575	3.779	3.588	3.482	3.098	3.187	3.363	3.332	3.168	3.289	3.174										3.366873	6.4	0.064	1	0.3
STYRENE	5.215	5.913	5.775	5.412	4.979	5.208	5.488	5.427	5.131	5.348	5.169										5.36964	5.2	0.052	1	0.3
Bromoform	0.655	1.067	0.857	0.999	0.907	0.896	0.923	0.943	0.896	0.94	0.968										0.914	11.27	0.113	1	0.1

PDF Generated On: 11/25/2014 -- By: Amy Green

Environmental Science Corporation
12065 Lebanon Rd., Mt. Juliet, TN 37122

INITIAL CALIBRATION SUMMARY

Instrument ID	: VOCMS7	Review Method	: 8260C	Released By	: Amy Green
Method	: V807K24N	Review Protocol	: SW846	Released On	: 11/25/2014 2:17:56 PM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- V807K24N -- ICal Updated Time: Tue Nov 25 14:00:56 2014

Parameter	.25	.5	1	2	5.0	10	25	40	75	100	200	1A	2.5A	5A	7.5A	10A	12A	15A	17A	20A	AvgRF	%RSD	COD	Cur	RF
Isopropylbenzene	8.619	9.164	9.042	8.68	7.722	8.11	8.52	8.428	7.952	8.251	7.881										8.397252	5.55	0.056	1	0.1
4-BROMOFLUOROBENZENE	2.861	2.76	2.798	2.736	2.747	2.742	2.818	2.787	2.831	2.823	2.814										2.792403	1.48	0.015	1	
Bromobenzene	4.128	4.298	3.719	3.724	3.38	3.439	3.537	3.482	3.281	3.372	3.206										3.597081	9.62	0.096	1	
1,1,2,2-TETRACHLOROETHANE	2.881	2.756	2.573	2.499	2.146	2.096	2.126	2.192	2.016	2.107	2.118										2.319035	13.03	0.13	1	0.3
1,2,3-TRICHLOROPROPANE		0.628	0.628	0.527	0.53	0.505	0.5	0.513	0.476	0.502	0.505										0.531509	9.99	0.1	1	
TRANS-1,4-DICHLORO-2-BUTENE		0.617	0.541	0.603	0.534	0.501	0.545	0.55	0.524	0.533	0.549										0.549722	6.37	0.064	1	
n-Propylbenzene	10.73	10.71	10.67	10.41	9.139999	9.55	10.21	9.99	9.53	9.75	9.21										9.98957	5.95	0.059	1	
4-ETHYLTOLUENE	9.824	9.164	8.804	8.695	7.499	7.8	8.222	8.138	7.707	7.946	7.537										8.303356	8.9	0.089	1	
2-Chlorotoluene	1.982	2.039	2.087	1.993	1.659	1.726	1.819	1.799	1.7	1.753	1.676										1.839298	8.52	0.085	1	
4-Chlorotoluene	7.156	6.846	6.481	6.276	5.566	5.758	6.078	6.043	5.743	5.956	5.761										6.151283	8.11	0.081	1	
1,3,5-Trimethylbenzene	7.485	7.719	7.177	7.241	6.104	6.475	6.76	6.643	6.271	6.449	6.036										6.760126	8.41	0.084	1	
tert-Butylbenzene	5.483	5.847	6.164	5.93	5.199	5.484	5.743	5.776	5.504	5.672	5.376										5.652434	4.88	0.049	1	
1,2,4-Trimethylbenzene	8.693	8.139	7.595	7.338	6.436	6.562	6.789	6.737	6.44	6.624	6.334										7.062626	11.07	0.111	1	
sec-Butylbenzene	9.5	10.14	9.59	9.8	8.49	8.79	9.3	9.2	8.77	9.08	8.58										9.20482	5.7	0.057	1	
1,3-DICHLOROBENZENE	3.891	3.852	3.906	3.734	3.43	3.479	3.666	3.651	3.521	3.642	3.508										3.661894	4.61	0.046	1	0.6
p-Isopropyltoluene	7.523	8.022	7.986	7.724	6.767	7.071	7.334	7.33	6.953	7.109	6.623										7.312794	6.37	0.064	1	
DICYCLOPENTADIENE	8.165	8.871	8.771	8.972	7.753	8.028	8.467	8.264	7.728	7.925	7.388										8.211851	6.25	0.063	1	
8260-1,4-DICHLOROBENZENE-D4																									
1,4-DICHLOROBENZENE	1.298	1.313	1.344	1.309	1.176	1.215	1.253	1.281	1.193	1.243	1.189										1.255794	4.56	0.046	1	
1,2,3-TRIMETHYLBENZENE	2.92	2.726	2.634	2.56	2.268	2.272	2.359	2.407	2.211	2.301	2.198										2.441503	9.68	0.097	1	
1,2-DICHLOROBENZENE	1.23	1.304	1.29	1.242	1.176	1.168	1.221	1.279	1.177	1.236	1.213										1.230559	3.78	0.038	1	0.4
n-Butylbenzene	2.635	2.857	2.739	2.663	2.355	2.418	2.559	2.63	2.418	2.508	2.342										2.556648	6.48	0.065	1	

PDF Generated On: 11/25/2014 -- By: Amy Green

Environmental Science Corporation
12065 Lebanon Rd., Mt. Juliet, TN 37122

INITIAL CALIBRATION SUMMARY

Instrument ID	: VOCMS7	Review Method	: 8260C	Released By	: Amy Green
Method	: V807K24N	Review Protocol	: SW846	Released On	: 11/25/2014 2:17:56 PM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- V807K24N -- ICal Updated Time: Tue Nov 25 14:00:56 2014

Parameter	.25	.5	1	2	5.0	10	25	40	75	100	200	1A	2.5A	5A	7.5A	10A	12A	15A	17A	20A	AvgRF	%RSD	COD	Cur	RF
1,2-Dibromo-3-chloropropane		0.124	0.133	0.148	0.142	0.146	0.149	0.171	0.151	0.159	0.167										0.14906	9.59	0.096	1	0.05
1,2,4-Trichlorobenzene	0.721	0.896	0.797	0.813	0.732	0.724	0.767	0.82	0.733	0.758	0.686										0.767723	7.77	0.078	1	0.2
HEXACHLORO-1,3-BUTADIENE	0.3	0.426	0.401	0.362	0.329	0.353	0.365	0.396	0.36	0.368	0.35										0.364552	9.47	0.095	1	
Naphthalene	2.305	2.396	2.297	2.305	2.12	2.105	2.162	2.403	2.14	2.218	2.115										2.233375	5.05	0.05	1	
1,2,3-Trichlorobenzene	0.646	0.777	0.765	0.702	0.679	0.644	0.666	0.733	0.652	0.674	0.625										0.687567	7.38	0.074	1	
1-Methylnaphthalene	1.167	1.071	0.986	1.017	0.863	0.907	0.942	1.073	0.946	0.99	0.899										0.987229	9.11	0.091	1	
2-Methylnaphthalene	0.676	0.826	0.8	0.821	0.774	0.739	0.767	0.868	0.765	0.792	0.709										0.776025	7.03	0.07	1	
AP9-PENTAFLUOROBENZENE																									
ETHANOL												0.009	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.007935	4.29	0.043	1	
Bromoethane												0.342	0.298	0.31	0.318	0.329	0.317	0.311	0.31	0.318	0.31706	3.95	0.04	1	
2-PROPANOL												0.059	0.046	0.043	0.041	0.043	0.042	0.042	0.041	0.039	0.044106	13.54	0.135	1	
Methyl Acetate												0.336	0.346	0.33	0.329	0.327	0.333	0.332	0.318	0.311	0.329024	3.06	0.031	1	0.1
ACETONITRILE												0.067	0.069	0.066	0.067	0.067	0.069	0.069	0.065	0.065	0.067276	2.3	0.023	1	
ALLYL CHLORIDE												0.255	0.261	0.249	0.252	0.251	0.247	0.251	0.244	0.244	0.250318	2.19	0.022	1	
tert-BUTYL ALCOHOL												0.097	0.1	0.092	0.094	0.09	0.094	0.09	0.086	0.083	0.091829	5.62	0.056	1	
chloroprene												0.441	0.464	0.449	0.446	0.437	0.441	0.437	0.427	0.424	0.4408	2.68	0.027	1	
ETHYL TERT-BUTYL ETHER												1.568	1.598	1.566	1.558	1.523	1.556	1.551	1.521	1.506	1.549674	1.83	0.018	1	
PROPIONITRILE												0.073	0.074	0.071	0.07	0.069	0.07	0.07	0.067	0.065	0.069822	3.71	0.037	1	
Ethyl Acetate												0.51	0.517	0.49	0.487	0.486	0.493	0.496	0.475	0.465	0.491176	3.28	0.033	1	
METHACRYLONITRILE												0.221	0.223	0.21	0.208	0.203	0.205	0.205	0.196	0.193	0.207153	4.86	0.049	1	
Cyclohexane												0.669	0.643	0.633	0.635	0.636	0.639	0.634	0.622	0.629	0.6377	2.05	0.02	1	0.1
tert-butyl formate												0.454	0.46	0.451	0.446	0.446	0.446	0.445	0.427	0.429	0.444887	2.41	0.024	1	
ISOBUTANOL												0.032	0.031	0.029	0.03	0.029	0.03	0.03	0.029	0.028	0.029901	3.33	0.033	1	

PDF Generated On: 11/25/2014 -- By: Amy Green

Environmental Science Corporation
12065 Lebanon Rd., Mt. Juliet, TN 37122

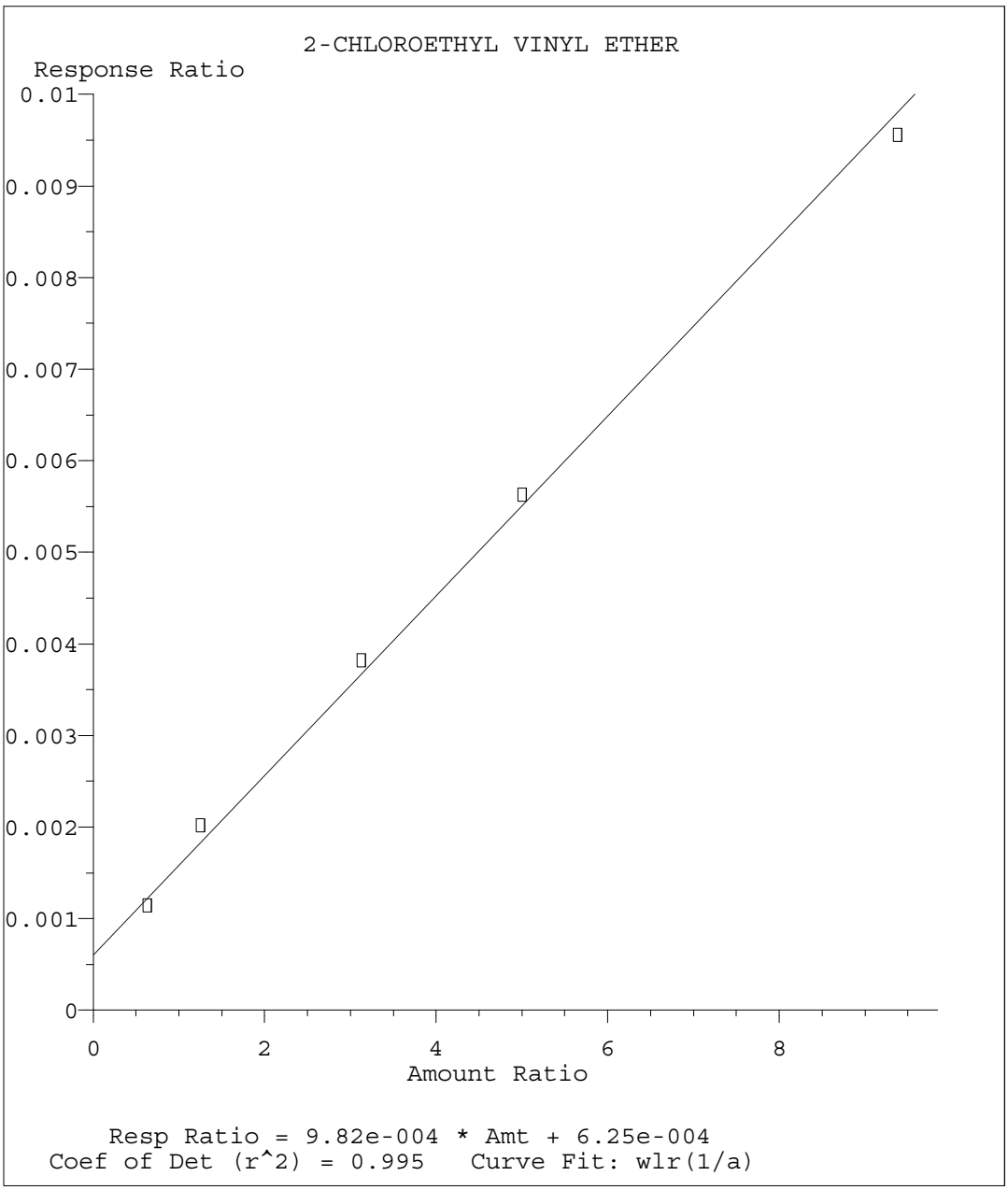
INITIAL CALIBRATION SUMMARY

Instrument ID	: VOCMS7	Review Method	: 8260C	Released By	: Amy Green
Method	: V807K24N	Review Protocol	: SW846	Released On	: 11/25/2014 2:17:56 PM

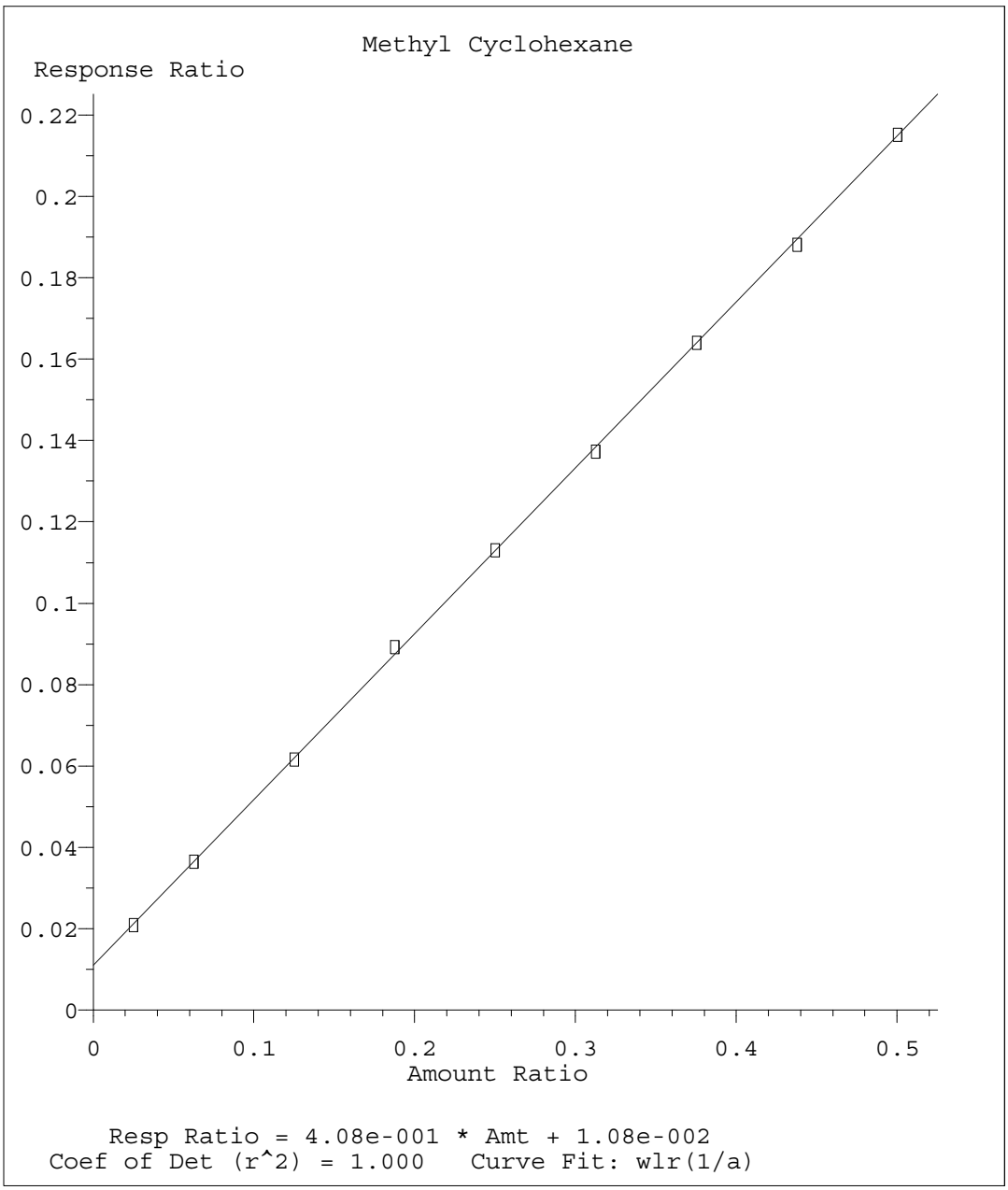
INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- V807K24N -- ICal Updated Time: Tue Nov 25 14:00:56 2014

Parameter	.25	.5	1	2	5.0	10	25	40	75	100	200	1A	2.5A	5A	7.5A	10A	12A	15A	17A	20A	AvgRF	%RSD	COD	Cur	RF
-Amyl Alcohol												0.057	0.056	0.051	0.054	0.053	0.059	0.056	0.053	0.049	0.05406	5.62	0.056	1	
TERT-AMYL METHYL ETHER												1.442	1.425	1.367	1.321	1.285	1.293	1.271	1.261	1.237	1.322539	5.53	0.055	1	
AP9-1,4-DIFLUOROBENZENE																									
N-BUTANOL												0.01	0.011	0.01	0.01	0.01	0.011	0.01	0.01	0.01	0.010227	2.62	0.026	1	
Methyl Cyclohexane												0.832	0.582	0.493	0.476	0.452	0.439	0.437	0.43	0.43	0.507748	25.75	1	0	0.1
-nitropropane												0.102	0.073	0.073	0.073	0.069	0.072	0.073	0.072	0.07	0.075143	13.57	0.136	1	
METHYL METHACRYLATE												0.25	0.237	0.235	0.232	0.226	0.231	0.234	0.227	0.227	0.233314	3.11	0.031	1	
1,4-DIOXANE												0.003	0.003	0.004	0.004	0.003	0.004	0.004	0.004	0.003	0.003514	3.84	0.038	1	
n-octane												0.267	0.245	0.255	0.241	0.236	0.241	0.238	0.236	0.238	0.244017	4.3	0.043	1	
3,3-DIMETHYL-1-BUTANOL												0.033	0.033	0.031	0.029	0.031	0.033	0.032	0.032	0.032	0.031897	4.18	0.042	1	
AP9-2-BROMO-1 -CHLOROPROPANE																									
ETHYL METHACRYLATE												2.341	2.339	2.237	2.228	2.255	2.239	2.252	2.223	2.239	2.261416	2.02	0.02	1	
CIS-1,4-DICHLORO-2-BUTENE												0.509	0.52	0.505	0.503	0.529	0.517	0.527	0.52	0.519	0.51655	1.72	0.017	1	
Cyclohexanone																					0	0	0	1	
PENTACHLOROETHANE												1.152	1.092	1.034	1.082	1.073	1.044	1.081	1.048	1.092	1.077488	3.26	0.033	1	
Hexachloroethane												1.176	1.235	1.276	1.265	1.272	1.25	1.29	1.311	1.345	1.268945	3.76	0.038	1	
AP9-1,4-DICHLOROBENZENE-D4																									

PDF Generated On: 11/25/2014 - By: Amy Green



Method Name: C:\msdchem\1\methods\V807K24N.M



Method Name: C:\msdchem\1\methods\V807K24N.M

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\112414\
Data File : 1124 02.D
Acq On : 24 Nov 2014 5:09 pm
Operator : 644
Sample : INSTBLK VMS
Misc : water IS/SURR14I25028
ALS Vial : 2 Sample Multiplier: 1
InstName : VOCMS7

Quant Time: Nov 25 02:00:22 2014
Quant Method : C:\msdchem\1\methods\V807K24N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS07
QLast Update : Mon Oct 20 13:22:28 2014
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 8260-PENTAFLUOROBENZENE	4.353	168	432841	40.0000000 ppb	0.00
41) 8260-1,4-DIFLUOROBENZENE	4.682	114	761644	40.0000000 ppb	0.00
53) 8260-2-BROMO-1-CHLOROP...	5.850	79	127449	40.0000000 ppb	0.00
84) 8260-1,4-DICHLOROBENZE...	8.253	152	359710	40.0000000 ppb	0.00
96) AP9-PENTAFLUOROBENZENE	4.353	168	432841	40.0000000 ppb	0.00
114) AP9-1,4-DIFLUOROBENZENE	4.682	114	761644	40.0000000 ppb	0.00
122) AP9-2-BROMO-1-CHLOROPR...	5.850	79	127449	40.0000000 ppb	# 0.00
128) AP9-1,4-DICHLOROBENZEN...	8.253	152	359710	40.0000000 ppb	0.00
System Monitoring Compounds					
33) DIBROMOFLUOROMETHANE	4.110	111	223132	41.4250882 ppb	0.00
Spiked Amount 40.000	Range 78 - 121		Recovery = 103.56%		
46) a,a,a-Trifluorotoluene	5.053	146	420066	42.2297301 ppb	0.00
Spiked Amount 40.000	Range 85 - 114		Recovery = 105.57%		
50) TOLUENE-D8	5.515	98	938637	41.0819063 ppb	0.00
Spiked Amount 40.000	Range 89 - 111		Recovery = 102.70%		
68) 4-BROMOFLUOROBENZENE	7.401	95	358790	41.0655552 ppb	0.00
Spiked Amount 40.000	Range 71 - 126		Recovery = 102.66%		
Target Compounds					Qvalue
2) TPH (GC/MS) LOW FRACTION	4.406	TIC -3736315		No Calib	
3) PROPENE	1.676	41	683	0.7509236 ppb #	1
4) DICHLORODIFLUOROMETHANE	0.000		0	N.D.	
5) CHLOROMETHANE	0.000		0	N.D.	
6) VINYL CHLORIDE	0.000		0	N.D.	
7) 1,3-BUTADIENE	0.000		0	N.D.	
8) BROMOMETHANE	2.212	94	1406	0.4119763 ppb #	5
9) CHLOROETHANE	0.000		0	N.D.	
10) TRICHLOROFLUOROMETHANE	0.000		0	N.D.	
11) DICHLOROFLUOROMETHANE	0.000		0	N.D.	
12) ETHYL ETHER	0.000		0	N.D.	
13) ACROLEIN	2.966	56	975	1.1448737 ppb #	14
14) 1,1-DICHLOROETHENE	0.000		0	N.D.	
15) 1,1,2-TRICHLOROTRIFLUO...	0.000		0	N.D.	
16) ACETONE	3.130	43	1549	1.0503749 ppb #	74
17) IODOMETHANE	0.000		0	N.D.	
18) CARBON DISULFIDE	2.790	76	1988	N.D.	
19) METHYLENE CHLORIDE	3.112	84	1126	N.D.	
20) ACRYLONITRILE	0.000		0	N.D.	
21) n-Hexane	3.191	56	695	N.D.	
22) TRANS-1,2-DICHLOROETHENE	0.000		0	N.D.	
23) METHYL TERT-BUTYL ETHER	0.000		0	N.D.	
24) 1,1-DICHLOROETHANE	0.000		0	N.D.	
25) VINYL ACETATE	0.000		0	N.D.	
26) DI-ISOPROPYL ETHER	0.000		0	N.D.	
27) 2,2-Dichloropropane	0.000		0	N.D.	
28) CIS-1,2-DICHLOROETHENE	0.000		0	N.D.	
29) 2-BUTANONE (MEK)	0.000		0	N.D.	
30) BROMOCHLOROMETHANE	0.000		0	N.D.	
31) TETRAHYDROFURAN	4.110	42	1063	0.5799742 ppb #	33
32) CHLOROFORM	4.012	83	1087	N.D.	
34) 1,1,1-TRICHLOROETHANE	0.000		0	N.D.	
35) CARBON TETRACHLORIDE	0.000		0	N.D.	

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\112414\
Data File : 1124 02.D
Acq On : 24 Nov 2014 5:09 pm
Operator : 644
Sample : INSTBLK VMS
Misc : water IS/SURR14I25028
ALS Vial : 2 Sample Multiplier: 1
InstName : VOCMS7

Quant Time: Nov 25 02:00:22 2014
Quant Method : C:\msdchem\1\methods\V807K24N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS07
QLast Update : Mon Oct 20 13:22:28 2014
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
36) 1,1-Dichloropropene	0.000		0	N.D.	
37) 2,2,4-TRIMETHYLPENTANE	4.256	57	1936	N.D.	
38) HEPTANE	4.286	43	580	N.D.	
39) BENZENE	0.000		0	N.D.	
40) 1,2-DICHLOROETHANE	0.000		0	N.D.	
42) TRICHLOROETHENE	0.000		0	N.D.	
43) 1,2-DICHLOROPROPANE	5.053	62	6504	1.5870796 ppb	# 17
44) DIBROMOMETHANE	0.000		0	N.D.	
45) BROMODICHLOROMETHANE	5.047	83	1231	N.D.	
47) 2-CHLOROETHYL VINYL ETHER	0.000		0	N.D.	
48) CIS-1,3-DICHLOROPROPENE	0.000		0	N.D.	
49) 4-METHYL-2-PENTANONE (...	0.000		0	N.D.	
51) TOLUENE	5.546	91	3288	N.D.	
52) TRANS-1,3-DICHLOROPROPENE	0.000		0	N.D.	
54) 1,1,2-TRICHLOROETHANE	5.844	97	736	N.D.	
55) TETRACHLOROETHENE	0.000		0	N.D.	
56) 1,3-Dichloropropane	0.000		0	N.D.	
57) 2-HEXANONE	0.000		0	N.D.	
58) CHLORODIBROMOMETHANE	0.000		0	N.D.	
59) 1,2-DIBROMOETHANE	0.000		0	N.D.	
60) CHLOROBENZENE	0.000		0	N.D.	
61) 1,1,1,2-TETRACHLOROETHANE	0.000		0	N.D.	
62) ETHYLBENZENE	0.000		0	N.D.	
63) M&P-XYLENE	6.653	106	1516	N.D.	
64) O-XYLENE	0.000		0	N.D.	
65) STYRENE	0.000		0	N.D.	
66) Bromoform	0.000		0	N.D.	
67) Isopropylbenzene	0.000		0	N.D.	
69) Bromobenzene	7.395	77	2568	N.D.	
70) 1,1,2,2-TETRACHLOROETHANE	7.602	83	560	N.D.	
71) 1,2,3-TRICHLOROPROPANE	0.000		0	N.D.	
72) TRANS-1,4-DICHLORO-2-B...	0.000		0	N.D.	
73) n-Propylbenzene	7.486	91	1386	N.D.	
74) 4-ETHYLTOLUENE	7.553	105	1559	N.D.	
75) 2-Chlorotoluene	0.000		0	N.D.	
76) 4-Chlorotoluene	7.730	91	721	N.D.	
77) 1,3,5-Trimethylbenzene	7.620	105	725	N.D.	
78) tert-Butylbenzene	0.000		0	N.D.	
79) 1,2,4-Trimethylbenzene	7.924	105	1658	N.D.	
80) sec-Butylbenzene	8.003	105	634	N.D.	
81) 1,3-DICHLOROBENZENE	0.000		0	N.D.	
82) p-Isopropyltoluene	0.000		0	N.D.	
83) DICYCLOPENTADIENE	0.000		0	N.D.	
85) 1,4-DICHLOROBENZENE	0.000		0	N.D.	
86) 1,2,3-TRIMETHYLBENZENE	8.265	105	1193	N.D.	
87) 1,2-DICHLOROBENZENE	0.000		0	N.D.	
88) n-Butylbenzene	8.435	91	826	N.D.	
89) 1,2-Dibromo-3-chloropr...	0.000		0	N.D.	
90) 1,2,4-Trichlorobenzene	0.000		0	N.D.	
91) HEXACHLORO-1,3-BUTADIENE	0.000		0	N.D.	
92) Naphthalene	10.072	128	1380	N.D.	
93) 1,2,3-Trichlorobenzene	0.000		0	N.D.	
94) 1-Methylnaphthalene	10.881	142	1006	N.D.	
95) 2-Methylnaphthalene	11.003	142	672	N.D.	

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\112414\
Data File : 1124 02.D
Acq On : 24 Nov 2014 5:09 pm
Operator : 644
Sample : INSTBLK VMS
Misc : water IS/SURR14I25028
ALS Vial : 2 Sample Multiplier: 1
InstName : VOCMS7

Quant Time: Nov 25 02:00:22 2014
Quant Method : C:\msdchem\1\methods\V807K24N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS07
QLast Update : Mon Oct 20 13:22:28 2014
Response via : Initial Calibration

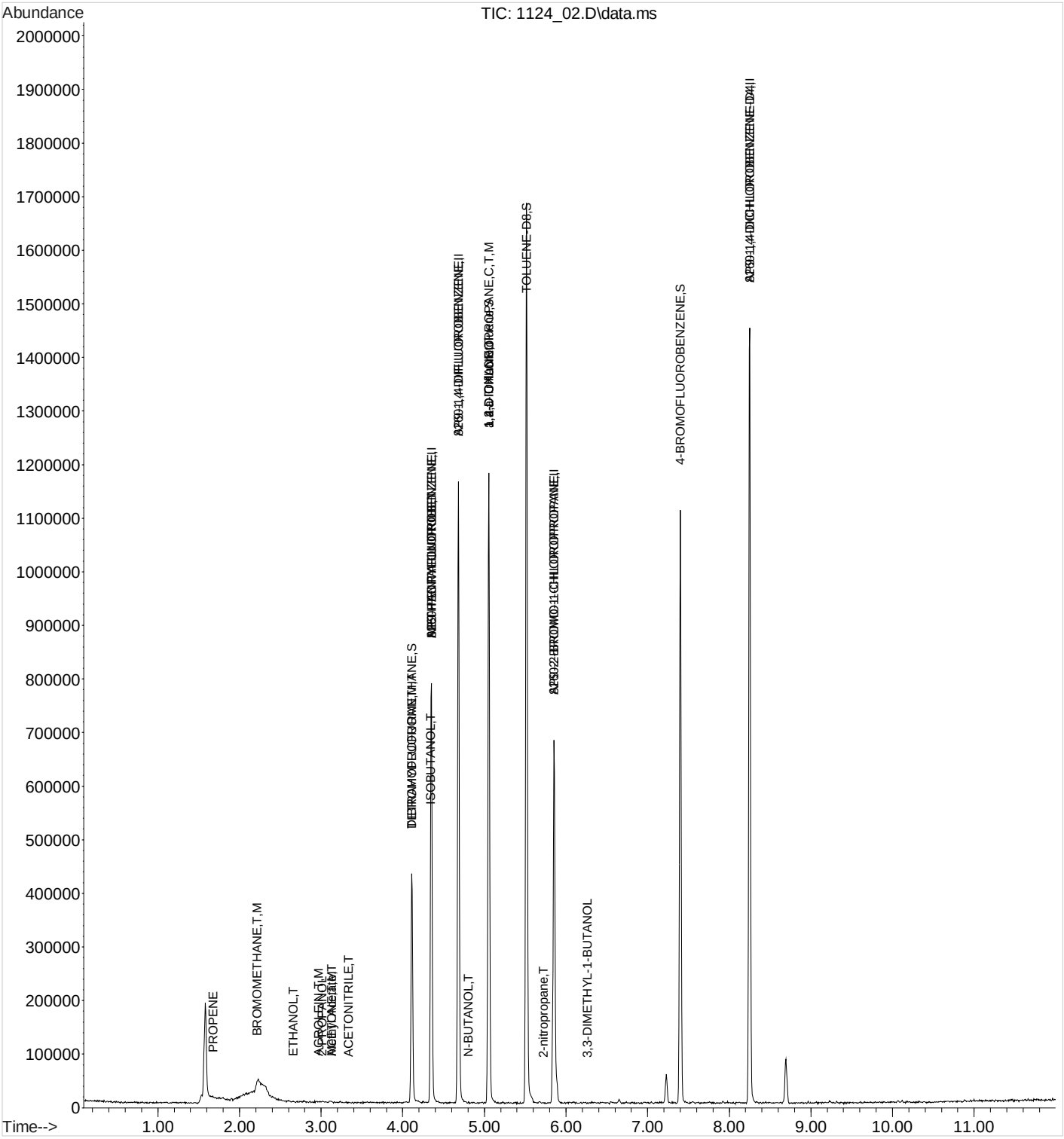
	Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
97)	ETHANOL	2.656	45	1183	14.3622333 ppb #	41
98)	Bromoethane	0.000		0	N.D.	
99)	2-PROPANOL	3.009	45	737	1.6912865 ppb #	60
100)	Methyl Acetate	3.130	43	1549	0.4221316 ppb #	54
101)	ACETONITRILE	3.337	41	669	0.8788896 ppb #	10
102)	ALLYL CHLORIDE	0.000		0	N.D.	
103)	tert-BUTYL ALCOHOL	0.000		0	N.D.	
104)	chloroprene	0.000		0	N.D.	
105)	ETHYL TERT-BUTYL ETHER	0.000		0	N.D.	
106)	PROPIONITRILE	0.000		0	N.D.	
107)	Ethyl Acetate	4.049	43	971	N.D.	
108)	METHACRYLONITRILE	4.353	67	1803	0.8648165 ppb #	1
109)	Cyclohexane	0.000		0	N.D.	
110)	tert-butyl formate	0.000		0	N.D.	
111)	ISOBUTANOL	4.341	43	666	2.1349534 ppb #	1
112)	t-Amyl Alcohol	0.000		0	N.D.	
113)	TERT-AMYL METHYL ETHER	4.347	73	567	N.D.	
115)	N-BUTANOL	4.803	56	1264	6.5987832 ppb #	20
116)	Methyl Cyclohexane	4.682	83	8912	N.D.	
117)	2-nitropropane	5.722	43	574	0.4164964 ppb #	1
118)	METHYL METHACRYLATE	0.000		0	N.D.	
119)	1,4-DIOXANE	5.053	88	3638	57.0562278 ppb #	40
120)	n-octane	0.000		0	N.D.	
121)	3,3-DIMETHYL-1-BUTANOL	6.257	57	849	1.5131207 ppb #	44
123)	ETHYL METHACRYLATE	5.868	69	595	N.D.	
124)	CIS-1,4-DICHLORO-2-BUTENE	0.000		0	N.D.	
125)	Cyclohexanone	7.608	55	530	No Calib #	
126)	PENTACHLOROETHANE	0.000		0	N.D.	
127)	Hexachloroethane	0.000		0	N.D.	

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\112414\
Data File : 1124 02.D
Acq On : 24 Nov 2014 5:09 pm
Operator : 644
Sample : INSTBLK VMS
Misc : water IS/SURR14I25028
ALS Vial : 2 Sample Multiplier: 1
InstName : VOCMS7

Quant Time: Nov 25 02:00:22 2014
Quant Method : C:\msdchem\1\methods\V807K24N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS07
QLast Update : Mon Oct 20 13:22:28 2014
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\112414\
Data File : 1124 02.D
Acq On : 24 Nov 2014 5:09 pm
Operator : 644
Sample : INSTBLK VMS
Misc : water IS/SURR14I25028
ALS Vial : 2 Sample Multiplier: 1
InstName : VOCMS7

Quant Time: Nov 25 02:00:22 2014
Quant Method : C:\msdchem\1\methods\V807K24N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS07
QLast Update : Mon Oct 20 13:22:28 2014
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 8260-PENTAFLUOROBENZENE	4.353	168	432841	40.0000000 ppb	0.00
41) 8260-1,4-DIFLUOROBENZENE	4.682	114	761644	40.0000000 ppb	0.00
53) 8260-2-BROMO-1-CHLOROP...	5.850	79	127449	40.0000000 ppb	0.00
84) 8260-1,4-DICHLOROBENZE...	8.253	152	359710	40.0000000 ppb	0.00
96) AP9-PENTAFLUOROBENZENE	4.353	168	432841	40.0000000 ppb	0.00
114) AP9-1,4-DIFLUOROBENZENE	4.682	114	761644	40.0000000 ppb	0.00
122) AP9-2-BROMO-1-CHLOROPR...	5.850	79	127449	40.0000000 ppb	# 0.00
128) AP9-1,4-DICHLOROBENZEN...	8.253	152	359710	40.0000000 ppb	0.00
System Monitoring Compounds					
33) DIBROMOFLUOROMETHANE	4.110	111	223132	41.4250882 ppb	0.00
Spiked Amount 40.000	Range 78 - 121		Recovery = 103.56%		
46) a,a,a-Trifluorotoluene	5.053	146	420066	42.2297301 ppb	0.00
Spiked Amount 40.000	Range 85 - 114		Recovery = 105.57%		
50) TOLUENE-D8	5.515	98	938637	41.0819063 ppb	0.00
Spiked Amount 40.000	Range 89 - 111		Recovery = 102.70%		
68) 4-BROMOFLUOROBENZENE	7.401	95	358790	41.0655552 ppb	0.00
Spiked Amount 40.000	Range 71 - 126		Recovery = 102.66%		
Target Compounds					Qvalue
2) TPH (GC/MS) LOW FRACTION	4.406	TIC -3736315		No Calib	
3) PROPENE	1.676	41	683	0.7509236 ppb #	1
4) DICHLORODIFLUOROMETHANE	0.000		0	N.D.	
5) CHLOROMETHANE	0.000		0	N.D.	
6) VINYL CHLORIDE	0.000		0	N.D.	
7) 1,3-BUTADIENE	0.000		0	N.D.	
8) BROMOMETHANE	2.212	94	1406	0.4119763 ppb #	5
9) CHLOROETHANE	0.000		0	N.D.	
10) TRICHLOROFLUOROMETHANE	0.000		0	N.D.	
11) DICHLOROFLUOROMETHANE	0.000		0	N.D.	
12) ETHYL ETHER	0.000		0	N.D.	
13) ACROLEIN	2.966	56	975	1.1448737 ppb #	14
14) 1,1-DICHLOROETHENE	0.000		0	N.D.	
15) 1,1,2-TRICHLOROTRIFLUO...	0.000		0	N.D.	
16) ACETONE	3.130	43	1549	1.0503749 ppb #	74
17) IODOMETHANE	0.000		0	N.D.	
18) CARBON DISULFIDE	2.790	76	1988	N.D.	
19) METHYLENE CHLORIDE	3.112	84	1126	N.D.	
20) ACRYLONITRILE	0.000		0	N.D.	
21) n-Hexane	3.191	56	695	N.D.	
22) TRANS-1,2-DICHLOROETHENE	0.000		0	N.D.	
23) METHYL TERT-BUTYL ETHER	0.000		0	N.D.	
24) 1,1-DICHLOROETHANE	0.000		0	N.D.	
25) VINYL ACETATE	0.000		0	N.D.	
26) DI-ISOPROPYL ETHER	0.000		0	N.D.	
27) 2,2-Dichloropropane	0.000		0	N.D.	
28) CIS-1,2-DICHLOROETHENE	0.000		0	N.D.	
29) 2-BUTANONE (MEK)	0.000		0	N.D.	
30) BROMOCHLOROMETHANE	0.000		0	N.D.	
31) TETRAHYDROFURAN	4.110	42	1063	0.5799742 ppb #	33
32) CHLOROFORM	4.012	83	1087	N.D.	
34) 1,1,1-TRICHLOROETHANE	0.000		0	N.D.	
35) CARBON TETRACHLORIDE	0.000		0	N.D.	

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\112414\
Data File : 1124 02.D
Acq On : 24 Nov 2014 5:09 pm
Operator : 644
Sample : INSTBLK VMS
Misc : water IS/SURR14I25028
ALS Vial : 2 Sample Multiplier: 1
InstName : VOCMS7

Quant Time: Nov 25 02:00:22 2014
Quant Method : C:\msdchem\1\methods\V807K24N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS07
QLast Update : Mon Oct 20 13:22:28 2014
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
36) 1,1-Dichloropropene	0.000		0	N.D.	
37) 2,2,4-TRIMETHYLPENTANE	4.256	57	1936	N.D.	
38) HEPTANE	4.286	43	580	N.D.	
39) BENZENE	0.000		0	N.D.	
40) 1,2-DICHLOROETHANE	0.000		0	N.D.	
42) TRICHLOROETHENE	0.000		0	N.D.	
43) 1,2-DICHLOROPROPANE	5.053	62	6504	1.5870796 ppb	# 17
44) DIBROMOMETHANE	0.000		0	N.D.	
45) BROMODICHLOROMETHANE	5.047	83	1231	N.D.	
47) 2-CHLOROETHYL VINYL ETHER	0.000		0	N.D.	
48) CIS-1,3-DICHLOROPROPENE	0.000		0	N.D.	
49) 4-METHYL-2-PENTANONE (...	0.000		0	N.D.	
51) TOLUENE	5.546	91	3288	N.D.	
52) TRANS-1,3-DICHLOROPROPENE	0.000		0	N.D.	
54) 1,1,2-TRICHLOROETHANE	5.844	97	736	N.D.	
55) TETRACHLOROETHENE	0.000		0	N.D.	
56) 1,3-Dichloropropane	0.000		0	N.D.	
57) 2-HEXANONE	0.000		0	N.D.	
58) CHLORODIBROMOMETHANE	0.000		0	N.D.	
59) 1,2-DIBROMOETHANE	0.000		0	N.D.	
60) CHLOROBENZENE	0.000		0	N.D.	
61) 1,1,1,2-TETRACHLOROETHANE	0.000		0	N.D.	
62) ETHYLBENZENE	0.000		0	N.D.	
63) M&P-XYLENE	6.653	106	1516	N.D.	
64) O-XYLENE	0.000		0	N.D.	
65) STYRENE	0.000		0	N.D.	
66) Bromoform	0.000		0	N.D.	
67) Isopropylbenzene	0.000		0	N.D.	
69) Bromobenzene	7.395	77	2568	N.D.	
70) 1,1,2,2-TETRACHLOROETHANE	7.602	83	560	N.D.	
71) 1,2,3-TRICHLOROPROPANE	0.000		0	N.D.	
72) TRANS-1,4-DICHLORO-2-B...	0.000		0	N.D.	
73) n-Propylbenzene	7.486	91	1386	N.D.	
74) 4-ETHYLTOLUENE	7.553	105	1559	N.D.	
75) 2-Chlorotoluene	0.000		0	N.D.	
76) 4-Chlorotoluene	7.730	91	721	N.D.	
77) 1,3,5-Trimethylbenzene	7.620	105	725	N.D.	
78) tert-Butylbenzene	0.000		0	N.D.	
79) 1,2,4-Trimethylbenzene	7.924	105	1658	N.D.	
80) sec-Butylbenzene	8.003	105	634	N.D.	
81) 1,3-DICHLOROBENZENE	0.000		0	N.D.	
82) p-Isopropyltoluene	0.000		0	N.D.	
83) DICYCLOPENTADIENE	0.000		0	N.D.	
85) 1,4-DICHLOROBENZENE	0.000		0	N.D.	
86) 1,2,3-TRIMETHYLBENZENE	8.265	105	1193	N.D.	
87) 1,2-DICHLOROBENZENE	0.000		0	N.D.	
88) n-Butylbenzene	8.435	91	826	N.D.	
89) 1,2-Dibromo-3-chloropr...	0.000		0	N.D.	
90) 1,2,4-Trichlorobenzene	0.000		0	N.D.	
91) HEXACHLORO-1,3-BUTADIENE	0.000		0	N.D.	
92) Naphthalene	10.072	128	1380	N.D.	
93) 1,2,3-Trichlorobenzene	0.000		0	N.D.	
94) 1-Methylnaphthalene	10.881	142	1006	N.D.	
95) 2-Methylnaphthalene	11.003	142	672	N.D.	

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\112414\
Data File : 1124 02.D
Acq On : 24 Nov 2014 5:09 pm
Operator : 644
Sample : INSTBLK VMS
Misc : water IS/SURR14I25028
ALS Vial : 2 Sample Multiplier: 1
InstName : VOCMS7

Quant Time: Nov 25 02:00:22 2014
Quant Method : C:\msdchem\1\methods\V807K24N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS07
QLast Update : Mon Oct 20 13:22:28 2014
Response via : Initial Calibration

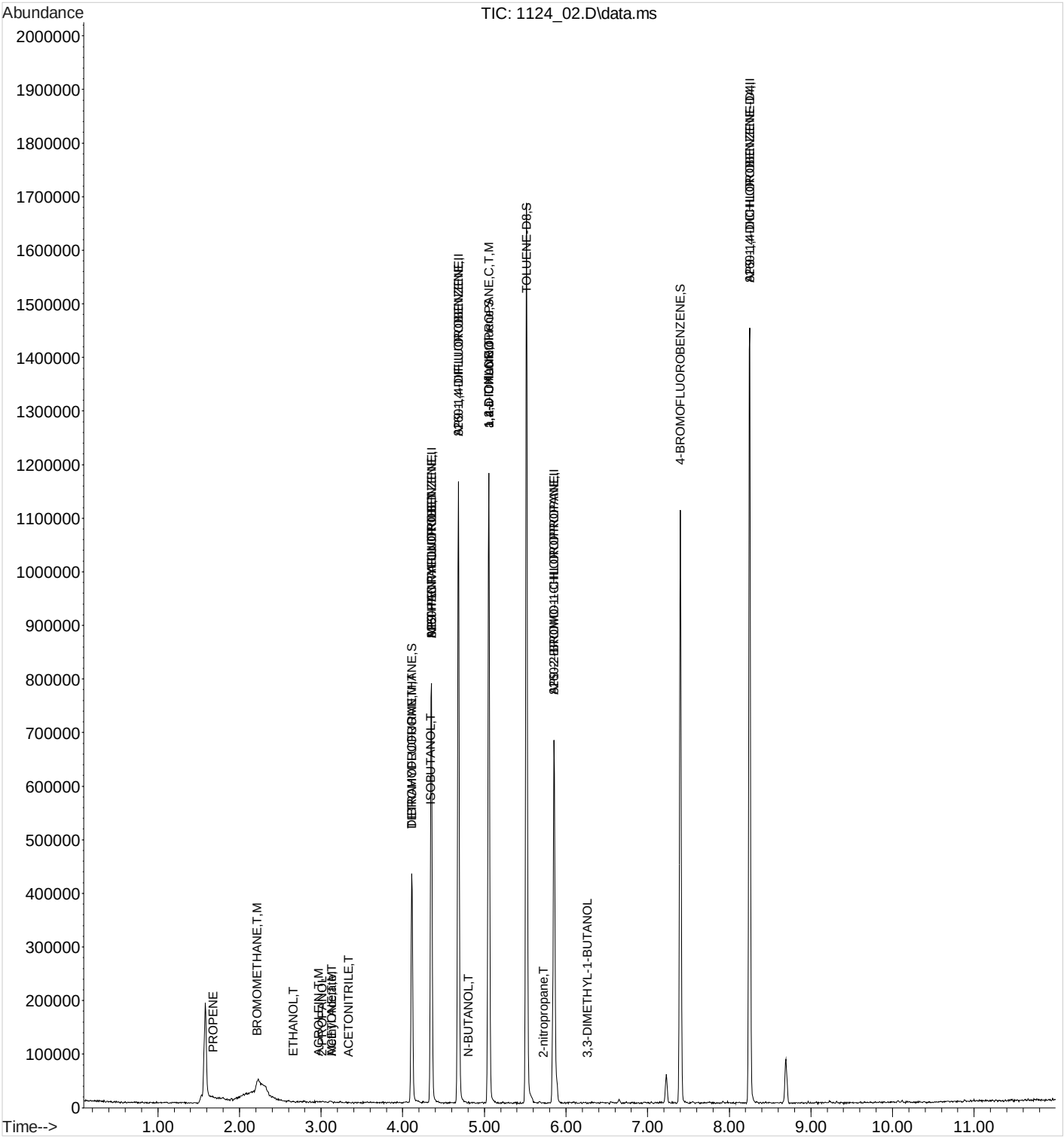
	Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
97)	ETHANOL	2.656	45	1183	14.3622333 ppb #	41
98)	Bromoethane	0.000		0	N.D.	
99)	2-PROPANOL	3.009	45	737	1.6912865 ppb #	60
100)	Methyl Acetate	3.130	43	1549	0.4221316 ppb #	54
101)	ACETONITRILE	3.337	41	669	0.8788896 ppb #	10
102)	ALLYL CHLORIDE	0.000		0	N.D.	
103)	tert-BUTYL ALCOHOL	0.000		0	N.D.	
104)	chloroprene	0.000		0	N.D.	
105)	ETHYL TERT-BUTYL ETHER	0.000		0	N.D.	
106)	PROPIONITRILE	0.000		0	N.D.	
107)	Ethyl Acetate	4.049	43	971	N.D.	
108)	METHACRYLONITRILE	4.353	67	1803	0.8648165 ppb #	1
109)	Cyclohexane	0.000		0	N.D.	
110)	tert-butyl formate	0.000		0	N.D.	
111)	ISOBUTANOL	4.341	43	666	2.1349534 ppb #	1
112)	t-Amyl Alcohol	0.000		0	N.D.	
113)	TERT-AMYL METHYL ETHER	4.347	73	567	N.D.	
115)	N-BUTANOL	4.803	56	1264	6.5987832 ppb #	20
116)	Methyl Cyclohexane	4.682	83	8912	N.D.	
117)	2-nitropropane	5.722	43	574	0.4164964 ppb #	1
118)	METHYL METHACRYLATE	0.000		0	N.D.	
119)	1,4-DIOXANE	5.053	88	3638	57.0562278 ppb #	40
120)	n-octane	0.000		0	N.D.	
121)	3,3-DIMETHYL-1-BUTANOL	6.257	57	849	1.5131207 ppb #	44
123)	ETHYL METHACRYLATE	5.868	69	595	N.D.	
124)	CIS-1,4-DICHLORO-2-BUTENE	0.000		0	N.D.	
125)	Cyclohexanone	7.608	55	530	No Calib #	
126)	PENTACHLOROETHANE	0.000		0	N.D.	
127)	Hexachloroethane	0.000		0	N.D.	

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\112414\
Data File : 1124 02.D
Acq On : 24 Nov 2014 5:09 pm
Operator : 644
Sample : INSTBLK VMS
Misc : water IS/SURR14I25028
ALS Vial : 2 Sample Multiplier: 1
InstName : VOCMS7

Quant Time: Nov 25 02:00:22 2014
Quant Method : C:\msdchem\1\methods\V807K24N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS07
QLast Update : Mon Oct 20 13:22:28 2014
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\112414\
Data File : 1124 05A.D
Acq On : 24 Nov 2014 6:06 pm
Operator : 644
Sample : RL VMS 1 ppb 14K20062
Misc : water IS/SURR14I25028
ALS Vial : 5 Sample Multiplier: 1
InstName : VOCMS7

Quant Time: Nov 25 14:03:21 2014
Quant Method : C:\msdchem\1\methods\V807K24N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS07
QLast Update : Tue Nov 25 14:00:56 2014
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 8260-PENTAFLUOROBENZENE	4.353	168	408155	40.0000000	ppb	0.00
41) 8260-1,4-DIFLUOROBENZENE	4.682	114	739064	40.0000000	ppb	0.00
53) 8260-2-BROMO-1-CHLOROP...	5.850	79	124317	40.0000000	ppb	0.00
84) 8260-1,4-DICHLOROBENZE...	8.253	152	344898	40.0000000	ppb	0.00
96) AP9-PENTAFLUOROBENZENE	4.353	168	408155	40.0000000	ppb	0.00
114) AP9-1,4-DIFLUOROBENZENE	4.682	114	739064	40.0000000	ppb	0.00
122) AP9-2-BROMO-1-CHLOROPR...	5.850	79	124317	40.0000000	ppb	# 0.00
128) AP9-1,4-DICHLOROBENZEN...	8.253	152	344898	40.0000000	ppb	0.00
System Monitoring Compounds						
33) DIBROMOFLUOROMETHANE	4.110	111	218148	41.3745849	ppb	0.00
Spiked Amount 40.000	Range 78 - 121		Recovery = 103.44%			
46) a,a,a-Trifluorotoluene	5.053	146	413612	42.1706783	ppb	0.00
Spiked Amount 40.000	Range 85 - 114		Recovery = 105.43%			
50) TOLUENE-D8	5.515	98	925758	41.5174184	ppb	0.00
Spiked Amount 40.000	Range 89 - 111		Recovery = 103.79%			
68) 4-BROMOFLUOROBENZENE	7.401	95	356501	41.0782753	ppb	0.00
Spiked Amount 40.000	Range 71 - 126		Recovery = 102.70%			
Target Compounds						Qvalue
2) TPH (GC/MS) LOW FRACTION	4.406	TIC -3370515		No Calib		
3) PROPENE	1.664	41	1806	1.3348138	ppb #	28
4) DICHLORODIFLUOROMETHANE	1.707	85	6434	1.1017329	ppb #	86
5) CHLOROMETHANE	1.889	50	7712	1.1051863	ppb	99
6) VINYL CHLORIDE	1.950	62	6900	0.9984588	ppb	91
7) 1,3-BUTADIENE	1.968	39	6282	1.2436809	ppb #	73
8) BROMOMETHANE	2.206	94	3973	1.7790694	ppb #	85
9) CHLOROETHANE	2.303	66	2148	2.0956334	ppb #	51
10) TRICHLOROFLUOROMETHANE	2.406	101	6684	1.0315629	ppb #	85
11) DICHLOROFLUOROMETHANE	2.437	67	9323	0.9520692	ppb #	81
12) ETHYL ETHER	2.607	59	4476	1.0045350	ppb #	84
13) ACROLEIN	2.960	56	4945	6.1743009	ppb	83
14) 1,1-DICHLOROETHENE	2.747	61	7838	1.0381024	ppb #	86
15) 1,1,2-TRICHLOROTRIFLUO...	2.765	101	4956	1.0329878	ppb #	87
16) ACETONE	3.130	43	9188	6.2563666	ppb	97
17) IODOMETHANE	2.856	142	24352	4.3400874	ppb	99
18) CARBON DISULFIDE	2.790	76	20877	1.0572876	ppb #	94
19) METHYLENE CHLORIDE	3.106	84	6902	1.1370827	ppb	91
20) ACRYLONITRILE	3.587	53	11069	5.4111502	ppb	93
21) n-Hexane	3.234	56	7404	1.3249056	ppb #	85
22) TRANS-1,2-DICHLOROETHENE	3.203	96	5862	0.9929273	ppb	96
23) METHYL TERT-BUTYL ETHER	3.252	73	15711	1.0364046	ppb	92
24) 1,1-DICHLOROETHANE	3.562	63	10300	1.0482070	ppb	99
25) VINYL ACETATE	3.672	43	48482	5.3052966	ppb	99
26) DI-ISOPROPYL ETHER	3.453	45	20293	1.0928157	ppb	95
27) 2,2-Dichloropropane	3.933	77	9107	1.1291355	ppb #	88
28) CIS-1,2-DICHLOROETHENE	3.866	96	6542	1.0477372	ppb	96
29) 2-BUTANONE (MEK)	4.171	72	4306	5.9281330	ppb	86
30) BROMOCHLOROMETHANE	3.982	130	3370	1.0380516	ppb	93
31) TETRAHYDROFURAN	4.110	42	3388	1.9397276	ppb	88
32) CHLOROFORM	4.006	83	10653	1.1069696	ppb	99
34) 1,1,1-TRICHLOROETHANE	4.146	97	8250	1.0686492	ppb	92
35) CARBON TETRACHLORIDE	4.110	117	5841	1.0304706	ppb	99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\112414\
Data File : 1124 05A.D
Acq On : 24 Nov 2014 6:06 pm
Operator : 644
Sample : RL VMS 1 ppb 14K20062
Misc : water IS/SURR14I25028
ALS Vial : 5 Sample Multiplier: 1
InstName : VOCMS7

Quant Time: Nov 25 14:03:21 2014
Quant Method : C:\msdchem\1\methods\V807K24N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS07
QLast Update : Tue Nov 25 14:00:56 2014
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units		Dev(Min)
36) 1,1-Dichloropropene	4.207	75	7931	1.0314389 ppb		94
37) 2,2,4-TRIMETHYLPENTANE	4.250	57	26462	1.0813313 ppb		97
38) HEPTANE	4.286	43	11188	1.1295903 ppb		96
39) BENZENE	4.353	78	25085	1.0850811 ppb	#	80
40) 1,2-DICHLOROETHANE	4.463	62	6187	1.0281322 ppb	#	78
42) TRICHLOROETHENE	4.675	130	5424	1.0280752 ppb	#	88
43) 1,2-DICHLOROPROPANE	4.998	62	4698	1.1327984 ppb		89
44) DIBROMOMETHANE	4.937	93	3143	1.0190925 ppb		96
45) BROMODICHLOROMETHANE	5.010	83	8728	1.2236333 ppb		91
47) 2-CHLOROETHYL VINYL ETHER	0.000		0	N.D.		
48) CIS-1,3-DICHLOROPROPENE	5.393	75	9472	1.0102507 ppb	#	94
49) 4-METHYL-2-PENTANONE (...	5.764	58	11449	5.1560625 ppb		83
51) TOLUENE	5.552	91	27609	1.1241544 ppb		100
52) TRANS-1,3-DICHLOROPROPENE	5.801	110	2217	1.0910363 ppb	#	81
54) 1,1,2-TRICHLOROETHANE	5.904	97	5603	1.1096506 ppb		97
55) TETRACHLOROETHENE	5.801	164	3913	0.9893222 ppb		97
56) 1,3-Dichloropropane	6.099	76	9122	1.0618680 ppb		94
57) 2-HEXANONE	6.312	58	12522	5.3876659 ppb		97
58) CHLORODIBROMOMETHANE	6.038	129	4671	1.0074708 ppb		99
59) 1,2-DIBROMOETHANE	6.215	107	5136	1.0536201 ppb		98
60) CHLOROBENZENE	6.555	112	16207	1.0837896 ppb		92
61) 1,1,1,2-TETRACHLOROETHANE	6.592	133	4694	1.0908721 ppb	#	93
62) ETHYLBENZENE	6.555	106	8839	1.0440320 ppb		91
63) M&P-XYLENE	6.647	106	22772	2.1226512 ppb		92
64) O-XYLENE	6.963	106	11151	1.0656547 ppb		96
65) STYRENE	6.993	104	17947	1.0754152 ppb		97
66) Bromoform	7.030	173	2665	0.9381681 ppb		94
67) Isopropylbenzene	7.176	105	28103	1.0768245 ppb		95
69) Bromobenzene	7.486	77	11558	1.0338605 ppb		97
70) 1,1,2,2-TETRACHLOROETHANE	7.529	83	7997	1.1095561 ppb	#	96
71) 1,2,3-TRICHLOROPROPANE	7.650	110	1951	1.1810715 ppb	#	72
72) TRANS-1,4-DICHLORO-2-B...	7.663	53	1682	0.9844932 ppb		88
73) n-Propylbenzene	7.480	91	33147	1.0676450 ppb		98
74) 4-ETHYLTOLUENE	7.559	105	27363	1.0603262 ppb		98
75) 2-Chlorotoluene	7.614	126	6486	1.1346300 ppb		99
76) 4-Chlorotoluene	7.742	91	20141	1.0535248 ppb		99
77) 1,3,5-Trimethylbenzene	7.620	105	22306	1.0616866 ppb		97
78) tert-Butylbenzene	7.869	119	19158	1.0905464 ppb		96
79) 1,2,4-Trimethylbenzene	7.918	105	23606	1.0754388 ppb		97
80) sec-Butylbenzene	8.003	105	29812	1.0420900 ppb		98
81) 1,3-DICHLOROBENZENE	8.198	146	12141	1.0667881 ppb		98
82) p-Isopropyltoluene	8.107	119	24820	1.0920636 ppb		99
83) DICYCLOPENTADIENE	8.113	66	27259	1.0680666 ppb		98
85) 1,4-DICHLOROBENZENE	8.265	146	11590	1.0703713 ppb	#	1
86) 1,2,3-TRIMETHYLBENZENE	8.265	105	22713	1.0789133 ppb		100
87) 1,2-DICHLOROBENZENE	8.599	146	11122	1.0482139 ppb		98
88) n-Butylbenzene	8.441	91	23614	1.0711934 ppb		99
89) 1,2-Dibromo-3-chloropr...	9.244	157	1150	0.8947609 ppb		84
90) 1,2,4-Trichlorobenzene	9.798	180	6873	1.0382724 ppb		98
91) HEXACHLORO-1,3-BUTADIENE	9.755	225	3459	1.1004250 ppb		94
92) Naphthalene	10.072	128	19810	1.0287079 ppb		100
93) 1,2,3-Trichlorobenzene	10.230	180	6597	1.1127576 ppb		97
94) 1-Methylnaphthalene	10.881	142	8500	0.9985511 ppb		97
95) 2-Methylnaphthalene	11.002	142	6896	1.0306020 ppb		96

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\112414\
Data File : 1124 05A.D
Acq On : 24 Nov 2014 6:06 pm
Operator : 644
Sample : RL VMS 1 ppb 14K20062
Misc : water IS/SURR14I25028
ALS Vial : 5 Sample Multiplier: 1
InstName : VOCMS7

Quant Time: Nov 25 14:03:21 2014
Quant Method : C:\msdchem\1\methods\V807K24N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS07
QLast Update : Tue Nov 25 14:00:56 2014
Response via : Initial Calibration

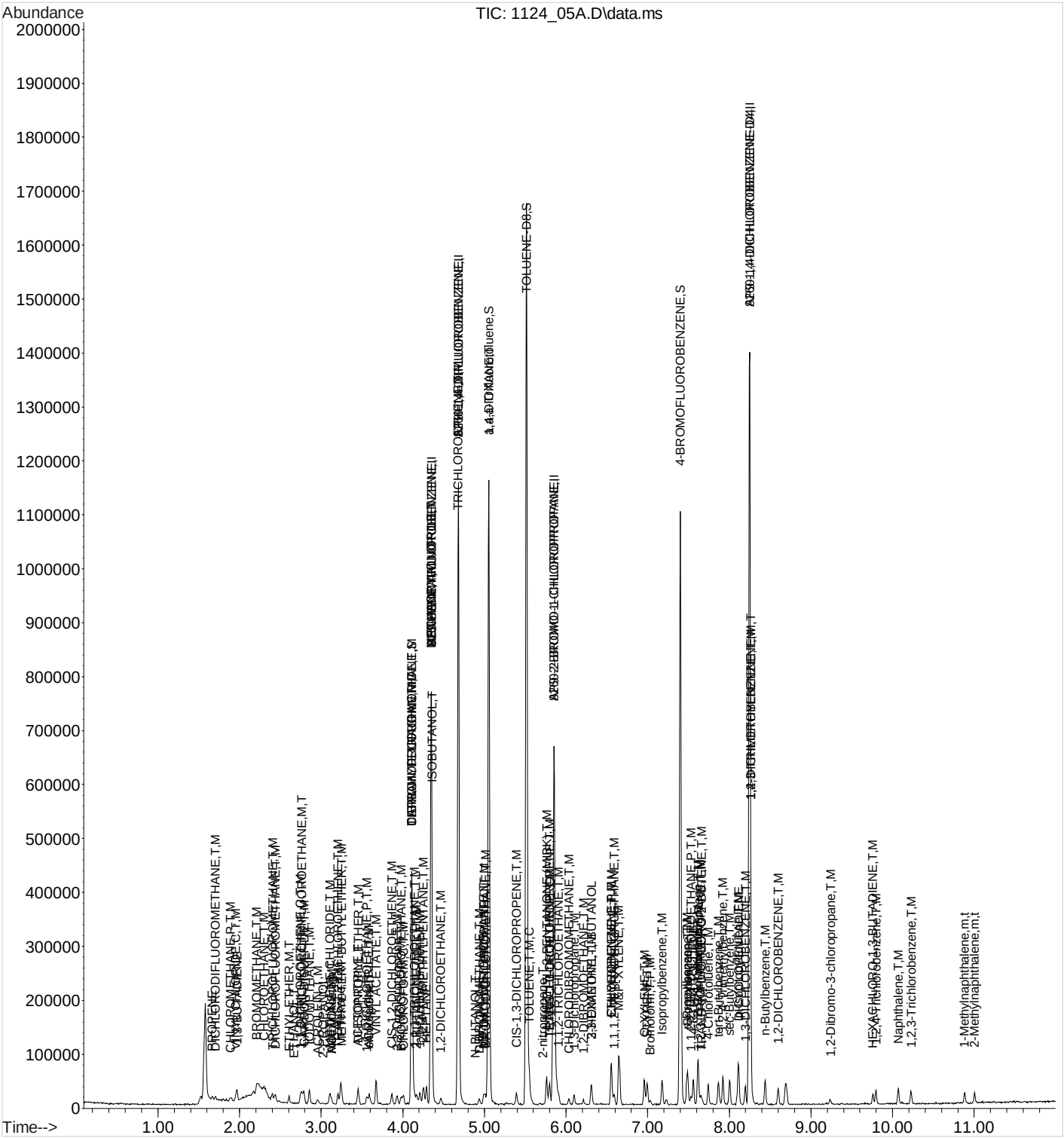
	Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
97)	ETHANOL	2.668	45	502	6.2003375 ppb #	1
98)	Bromoethane	0.000		0	N.D.	
99)	2-PROPANOL	3.021	45	950	2.1108490 ppb #	61
100)	Methyl Acetate	3.130	43	8837	2.6321574 ppb #	52
101)	ACETONITRILE	3.447	41	3139	4.5726385 ppb #	31
102)	ALLYL CHLORIDE	0.000		0	N.D.	
103)	tert-BUTYL ALCOHOL	0.000		0	N.D.	
104)	chloroprene	3.587	53	11069	2.4609427 ppb #	18
105)	ETHYL TERT-BUTYL ETHER	0.000		0	N.D.	
106)	PROPIONITRILE	0.000		0	N.D.	
107)	Ethyl Acetate	4.049	43	626	N.D.	
108)	METHACRYLONITRILE	4.347	67	1569	0.7422776 ppb #	1
109)	Cyclohexane	4.000	84	504	N.D.	
110)	tert-butyl formate	0.000		0	N.D.	
111)	ISOBUTANOL	4.359	43	621	2.0353903 ppb #	1
112)	t-Amyl Alcohol	0.000		0	N.D.	
113)	TERT-AMYL METHYL ETHER	4.353	73	557	N.D.	
115)	N-BUTANOL	4.888	56	1084	5.7367117 ppb #	22
116)	Methyl Cyclohexane	4.682	83	8284	N.D.	
117)	2-nitropropane	5.716	43	688	0.4955415 ppb #	15
118)	METHYL METHACRYLATE	4.992	41	3628	0.8415972 ppb #	100
119)	1,4-DIOXANE	5.053	88	3759	57.8961690 ppb #	100
120)	n-octane	5.399	85	634	N.D.	
121)	3,3-DIMETHYL-1-BUTANOL	6.312	57	5113	8.6757284 ppb #	43
123)	ETHYL METHACRYLATE	5.837	69	719	N.D.	
124)	CIS-1,4-DICHLORO-2-BUTENE	0.000		0	N.D.	
125)	Cyclohexanone	7.614	55	614	No Calib #	
126)	PENTACHLOROETHANE	7.930	117	815	N.D.	
127)	Hexachloroethane	0.000		0	N.D.	

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\112414\
Data File : 1124 05A.D
Acq On : 24 Nov 2014 6:06 pm
Operator : 644
Sample : RL VMS 1 ppb 14K20062
Misc : water IS/SURR14I25028
ALS Vial : 5 Sample Multiplier: 1
InstName : VOCMS7

Quant Time: Nov 25 14:03:21 2014
Quant Method : C:\msdchem\1\methods\V807K24N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS07
QLast Update : Tue Nov 25 14:00:56 2014
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\112414\
Data File : 1124 06A.D
Acq On : 24 Nov 2014 6:26 pm
Operator : 644
Sample : RL VMS 2 ppb 14K20062
Misc : water IS/SURR14I25028
ALS Vial : 6 Sample Multiplier: 1
InstName : VOCMS7

Quant Time: Nov 25 14:04:21 2014
Quant Method : C:\msdchem\1\methods\V807K24N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS07
QLast Update : Tue Nov 25 14:00:56 2014
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 8260-PENTAFLUOROBENZENE	4.353	168	404692	40.0000000 ppb	0.00
41) 8260-1,4-DIFLUOROBENZENE	4.681	114	733797	40.0000000 ppb	0.00
53) 8260-2-BROMO-1-CHLOROP...	5.850	79	124247	40.0000000 ppb	0.00
84) 8260-1,4-DICHLOROBENZE...	8.253	152	345895	40.0000000 ppb	0.00
96) AP9-PENTAFLUOROBENZENE	4.353	168	404692	40.0000000 ppb	0.00
114) AP9-1,4-DIFLUOROBENZENE	4.681	114	733797	40.0000000 ppb	0.00
122) AP9-2-BROMO-1-CHLOROPR...	5.850	79	124247	40.0000000 ppb	# 0.00
128) AP9-1,4-DICHLOROBENZEN...	8.253	152	345895	40.0000000 ppb	0.00
System Monitoring Compounds					
33) DIBROMOFLUOROMETHANE	4.110	111	220067	42.0957100 ppb	0.00
Spiked Amount 40.000	Range 78 - 121		Recovery = 105.24%		
46) a,a,a-Trifluorotoluene	5.053	146	416511	42.7710634 ppb	0.00
Spiked Amount 40.000	Range 85 - 114		Recovery = 106.93%		
50) TOLUENE-D8	5.515	98	942245	42.5601182 ppb	0.00
Spiked Amount 40.000	Range 89 - 111		Recovery = 106.40%		
68) 4-BROMOFLUOROBENZENE	7.401	95	356970	41.1554901 ppb	0.00
Spiked Amount 40.000	Range 71 - 126		Recovery = 102.89%		
Target Compounds					Qvalue
2) TPH (GC/MS) LOW FRACTION	4.406	TIC -2954635		No Calib	
3) PROPENE	1.670	41	3477	2.5918397 ppb #	82
4) DICHLORODIFLUOROMETHANE	1.707	85	11822	2.0416755 ppb	97
5) CHLOROMETHANE	1.889	50	13998	2.0231820 ppb	99
6) VINYL CHLORIDE	1.956	62	14575	2.1271108 ppb	91
7) 1,3-BUTADIENE	1.968	39	10413	2.0791576 ppb	98
8) BROMOMETHANE	2.205	94	5412	2.4441768 ppb	98
9) CHLOROETHANE	2.297	66	3140	3.0896635 ppb #	68
10) TRICHLOROFLUOROMETHANE	2.406	101	13438	2.0916761 ppb #	94
11) DICHLOROFLUOROMETHANE	2.437	67	19587	2.0173500 ppb	98
12) ETHYL ETHER	2.607	59	9263	2.0966558 ppb	91
13) ACROLEIN	2.960	56	8604	10.8348374 ppb	99
14) 1,1-DICHLOROETHENE	2.753	61	15687	2.0954406 ppb	94
15) 1,1,2-TRICHLOROTRIFLUO...	2.765	101	9806	2.0613716 ppb	98
16) ACETONE	3.124	43	17120	11.7572421 ppb	100
17) IODOMETHANE	2.856	142	48881	8.7862676 ppb	99
18) CARBON DISULFIDE	2.789	76	39511	2.0181042 ppb	97
19) METHYLENE CHLORIDE	3.106	84	12805	2.1276352 ppb	95
20) ACRYLONITRILE	3.586	53	22074	10.8833536 ppb	97
21) n-Hexane	3.240	56	12766	2.3039543 ppb	91
22) TRANS-1,2-DICHLOROETHENE	3.203	96	11687	1.9965271 ppb	99
23) METHYL TERT-BUTYL ETHER	3.246	73	32531	2.1643296 ppb	99
24) 1,1-DICHLOROETHANE	3.562	63	20128	2.0659080 ppb	96
25) VINYL ACETATE	3.672	43	94089	10.3840913 ppb	100
26) DI-ISOPROPYL ETHER	3.453	45	37829	2.0545941 ppb	99
27) 2,2-Dichloropropane	3.927	77	16724	2.0912762 ppb	94
28) CIS-1,2-DICHLOROETHENE	3.866	96	12808	2.0688246 ppb	96
29) 2-BUTANONE (MEK)	4.170	72	7829	10.8705297 ppb	92
30) BROMOCHLOROMETHANE	3.982	130	6720	2.0876555 ppb	100
31) TETRAHYDROFURAN	4.104	42	5420	3.1296598 ppb #	93
32) CHLOROFORM	4.006	83	19125	2.0043137 ppb	100
34) 1,1,1-TRICHLOROETHANE	4.146	97	15076	1.9695538 ppb	93
35) CARBON TETRACHLORIDE	4.104	117	11759	2.0922776 ppb	94

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\112414\
Data File : 1124 06A.D
Acq On : 24 Nov 2014 6:26 pm
Operator : 644
Sample : RL VMS 2 ppb 14K20062
Misc : water IS/SURR14I25028
ALS Vial : 6 Sample Multiplier: 1
InstName : VOCMS7

Quant Time: Nov 25 14:04:21 2014
Quant Method : C:\msdchem\1\methods\V807K24N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS07
QLast Update : Tue Nov 25 14:00:56 2014
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units		Dev(Min)
36) 1,1-Dichloropropene	4.207	75	16175	2.1215845 ppb		99
37) 2,2,4-TRIMETHYLPENTANE	4.250	57	51839	2.1364525 ppb		99
38) HEPTANE	4.292	43	19489	1.9845341 ppb		94
39) BENZENE	4.353	78	48229	2.1040538 ppb	#	89
40) 1,2-DICHLOROETHANE	4.469	62	12444	2.0855919 ppb	#	87
42) TRICHLOROETHENE	4.681	130	11212	2.1403974 ppb		99
43) 1,2-DICHLOROPROPANE	4.998	62	9202	2.2347450 ppb		92
44) DIBROMOMETHANE	4.937	93	6288	2.0534678 ppb		98
45) BROMODICHLOROMETHANE	5.016	83	15630	2.2069964 ppb	#	91
47) 2-CHLOROETHYL VINYL ETHER	0.000		0	N.D.		
48) CIS-1,3-DICHLOROPROPENE	5.393	75	19598	2.1052581 ppb	#	98
49) 4-METHYL-2-PENTANONE (...	5.764	58	23602	10.7054650 ppb		89
51) TOLUENE	5.551	91	51510	2.1123844 ppb		100
52) TRANS-1,3-DICHLOROPROPENE	5.795	110	4012	1.9885686 ppb	#	75
54) 1,1,2-TRICHLOROETHANE	5.910	97	10726	2.1254360 ppb		94
55) TETRACHLOROETHENE	5.801	164	8256	2.0885372 ppb		96
56) 1,3-Dichloropropane	6.099	76	17265	2.0109054 ppb		98
57) 2-HEXANONE	6.306	58	25805	11.1090119 ppb		99
58) CHLORODIBROMOMETHANE	6.038	129	9444	2.0380891 ppb		95
59) 1,2-DIBROMOETHANE	6.215	107	10362	2.1269007 ppb		98
60) CHLOROBENZENE	6.555	112	31825	2.1293909 ppb		99
61) 1,1,1,2-TETRACHLOROETHANE	6.586	133	9035	2.1008910 ppb	#	98
62) ETHYLBENZENE	6.555	106	17564	2.0757675 ppb		95
63) M&P-XYLENE	6.646	106	44145	4.1172155 ppb		96
64) O-XYLENE	6.963	106	21629	2.0681580 ppb		98
65) STYRENE	6.993	104	33624	2.0159433 ppb		97
66) Bromoform	7.036	173	6209	2.1870047 ppb		94
67) Isopropylbenzene	7.176	105	53924	2.0673736 ppb		99
69) Bromobenzene	7.492	77	23135	2.0705864 ppb		98
70) 1,1,2,2-TETRACHLOROETHANE	7.529	83	15523	2.1549760 ppb		95
71) 1,2,3-TRICHLOROPROPANE	7.650	110	3277	1.9849061 ppb	#	63
72) TRANS-1,4-DICHLORO-2-B...	7.662	53	3747	2.1943960 ppb		96
73) n-Propylbenzene	7.480	91	64641	2.0832209 ppb		99
74) 4-ETHYLTOLUENE	7.559	105	54019	2.0944353 ppb		98
75) 2-Chlorotoluene	7.620	126	12379	2.1667434 ppb		93
76) 4-Chlorotoluene	7.742	91	38988	2.0405127 ppb		98
77) 1,3,5-Trimethylbenzene	7.620	105	44984	2.1422854 ppb		98
78) tert-Butylbenzene	7.869	119	36840	2.0982548 ppb		99
79) 1,2,4-Trimethylbenzene	7.918	105	45587	2.0780161 ppb		99
80) sec-Butylbenzene	8.009	105	60868	2.1288633 ppb		99
81) 1,3-DICHLOROBENZENE	8.198	146	23198	2.0394773 ppb		100
82) p-Isopropyltoluene	8.107	119	47983	2.1124097 ppb		98
83) DICYCLOPENTADIENE	8.113	66	55735	2.1850482 ppb		99
85) 1,4-DICHLOROBENZENE	8.265	146	22631	2.0840166 ppb	#	1
86) 1,2,3-TRIMETHYLBENZENE	8.265	105	44276	2.0971370 ppb		100
87) 1,2-DICHLOROBENZENE	8.599	146	21481	2.0186820 ppb		97
88) n-Butylbenzene	8.441	91	46049	2.0828831 ppb		99
89) 1,2-Dibromo-3-chloropr...	9.238	157	2561	1.9868501 ppb		92
90) 1,2,4-Trichlorobenzene	9.798	180	14058	2.1175559 ppb		98
91) HEXACHLORO-1,3-BUTADIENE	9.755	225	6266	1.9876810 ppb		97
92) Naphthalene	10.072	128	39859	2.0638608 ppb		98
93) 1,2,3-Trichlorobenzene	10.224	180	12141	2.0419962 ppb		99
94) 1-Methylnaphthalene	10.887	142	17590	2.0604572 ppb		93
95) 2-Methylnaphthalene	11.002	142	14193	2.1150193 ppb		99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\112414\
Data File : 1124 06A.D
Acq On : 24 Nov 2014 6:26 pm
Operator : 644
Sample : RL VMS 2 ppb 14K20062
Misc : water IS/SURR14I25028
ALS Vial : 6 Sample Multiplier: 1
InstName : VOCMS7

Quant Time: Nov 25 14:04:21 2014
Quant Method : C:\msdchem\1\methods\V807K24N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS07
QLast Update : Tue Nov 25 14:00:56 2014
Response via : Initial Calibration

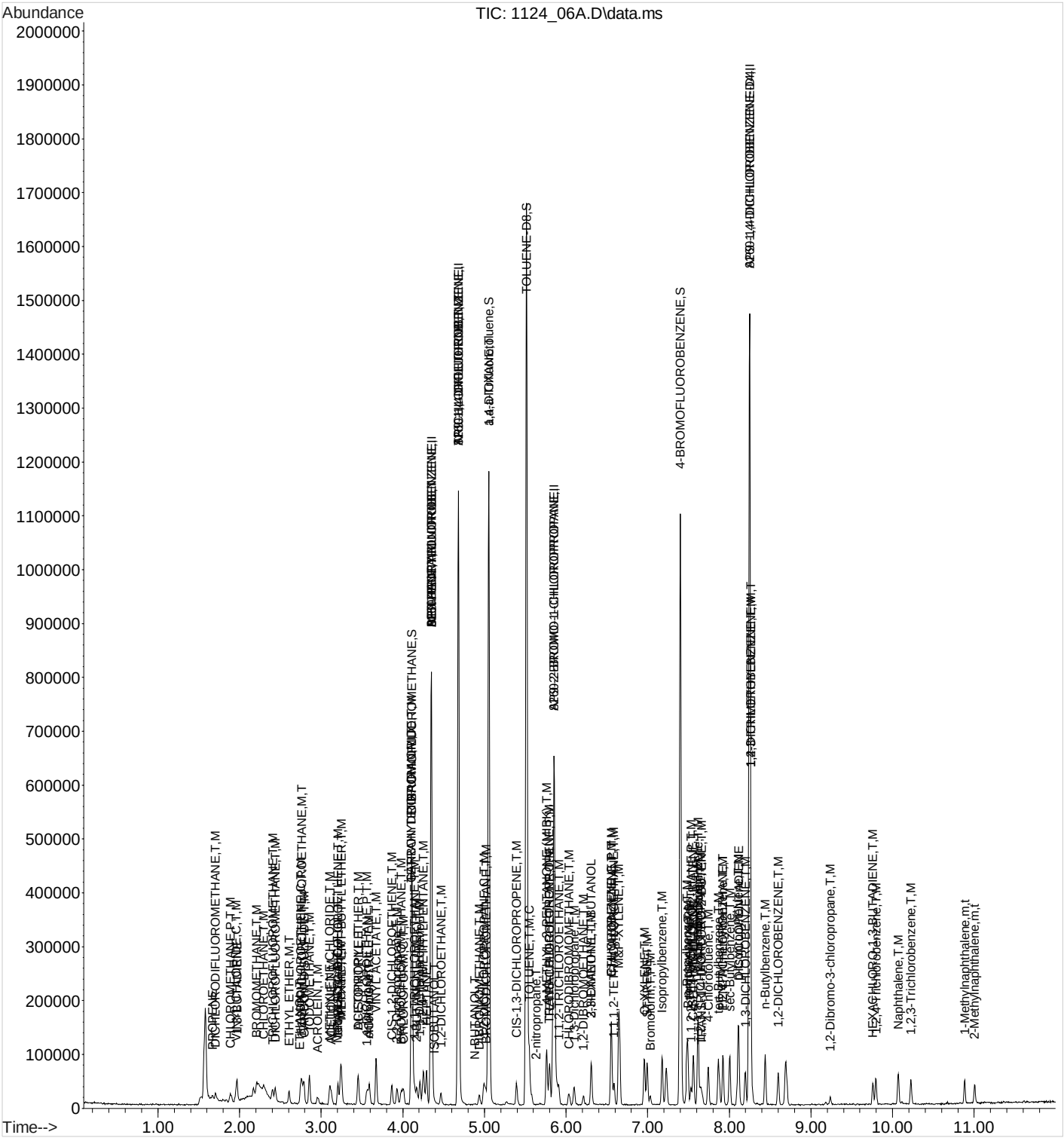
	Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
97)	ETHANOL	2.741	45	523	6.5149908 ppb #	40
98)	Bromoethane	0.000		0	N.D.	
99)	2-PROPANOL	0.000		0	N.D.	
100)	Methyl Acetate	3.197	43	1481	0.4449002 ppb #	52
101)	ACETONITRILE	3.453	41	5281	7.7587583 ppb #	14
102)	ALLYL CHLORIDE	0.000		0	N.D.	
103)	tert-BUTYL ALCOHOL	3.203	59	548	0.5898416 ppb #	57
104)	chloroprene	3.586	53	22074	4.9496519 ppb #	18
105)	ETHYL TERT-BUTYL ETHER	0.000		0	N.D.	
106)	PROPIONITRILE	0.000		0	N.D.	
107)	Ethyl Acetate	4.043	43	503	N.D.	
108)	METHACRYLONITRILE	4.353	67	1678	0.8006374 ppb #	1
109)	Cyclohexane	0.000		0	N.D.	
110)	tert-butyl formate	0.000		0	N.D.	
111)	ISOBUTANOL	4.389	43	554	1.8313289 ppb #	99
112)	t-Amyl Alcohol	0.000		0	N.D.	
113)	TERT-AMYL METHYL ETHER	4.359	73	1171	N.D.	
115)	N-BUTANOL	4.882	56	984	5.2448728 ppb #	22
116)	Methyl Cyclohexane	4.681	83	7776	Below Cal #	54
117)	2-nitropropane	5.637	43	556	0.4033411 ppb #	15
118)	METHYL METHACRYLATE	5.040	41	761	N.D.	
119)	1,4-DIOXANE	5.053	88	3487	54.0923146 ppb #	100
120)	n-octane	0.000		0	N.D.	
121)	3,3-DIMETHYL-1-BUTANOL	6.306	57	9940	16.9872334 ppb #	42
123)	ETHYL METHACRYLATE	5.892	69	602	N.D.	
124)	CIS-1,4-DICHLORO-2-BUTENE	7.553	53	588	0.3664705 ppb #	2
125)	Cyclohexanone	7.510	55	566	No Calib #	
126)	PENTACHLOROETHANE	7.918	117	1346	0.4021672 ppb #	14
127)	Hexachloroethane	0.000		0	N.D.	

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\112414\
Data File : 1124 06A.D
Acq On : 24 Nov 2014 6:26 pm
Operator : 644
Sample : RL VMS 2 ppb 14K20062
Misc : water IS/SURR14I25028
ALS Vial : 6 Sample Multiplier: 1
InstName : VOCMS7

Quant Time: Nov 25 14:04:21 2014
Quant Method : C:\msdchem\1\methods\V807K24N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS07
QLast Update : Tue Nov 25 14:00:56 2014
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\112414\
Data File : 1124 07A.D
Acq On : 24 Nov 2014 6:45 pm
Operator : 644
Sample : RL VMS 5.0 ppb 14K20062
Misc : water IS/SURR14I25028
ALS Vial : 7 Sample Multiplier: 1
InstName : VOCMS7

Quant Time: Nov 25 14:05:21 2014
Quant Method : C:\msdchem\1\methods\V807K24N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS07
QLast Update : Tue Nov 25 14:00:56 2014
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 8260-PENTAFLUOROBENZENE	4.353	168	405481	40.0000000 ppb	0.00
41) 8260-1,4-DIFLUOROBENZENE	4.682	114	737353	40.0000000 ppb	0.00
53) 8260-2-BROMO-1-CHLOROP...	5.850	79	123315	40.0000000 ppb	0.00
84) 8260-1,4-DICHLOROBENZE...	8.253	152	343313	40.0000000 ppb	0.00
96) AP9-PENTAFLUOROBENZENE	4.353	168	405481	40.0000000 ppb	0.00
114) AP9-1,4-DIFLUOROBENZENE	4.682	114	737353	40.0000000 ppb	0.00
122) AP9-2-BROMO-1-CHLOROPR...	5.850	79	123315	40.0000000 ppb	# 0.00
128) AP9-1,4-DICHLOROBENZEN...	8.253	152	343313	40.0000000 ppb	0.00
System Monitoring Compounds					
33) DIBROMOFLUOROMETHANE	4.110	111	223604	42.6890602 ppb	0.00
Spiked Amount 40.000	Range 78 - 121		Recovery = 106.72%		
46) a,a,a-Trifluorotoluene	5.053	146	421574	43.0821999 ppb	0.00
Spiked Amount 40.000	Range 85 - 114		Recovery = 107.71%		
50) TOLUENE-D8	5.515	98	955604	42.9553659 ppb	0.00
Spiked Amount 40.000	Range 89 - 111		Recovery = 107.39%		
68) 4-BROMOFLUOROBENZENE	7.401	95	364090	42.2936156 ppb	0.00
Spiked Amount 40.000	Range 71 - 126		Recovery = 105.73%		
Target Compounds					Qvalue
2) TPH (GC/MS) LOW FRACTION	4.406	TIC	-2204068	No Calib	
3) PROPENE	1.670	41	6980	5.1929360 ppb	94
4) DICHLORODIFLUOROMETHANE	1.707	85	24158	4.1640012 ppb	94
5) CHLOROMETHANE	1.889	50	31133	4.4910102 ppb	99
6) VINYL CHLORIDE	1.950	62	30199	4.3987394 ppb	98
7) 1,3-BUTADIENE	1.968	39	22881	4.5597460 ppb	93
8) BROMOMETHANE	2.206	94	10709	4.8270062 ppb	94
9) CHLOROETHANE	2.297	66	5360	5.2638127 ppb	95
10) TRICHLOROFLUOROMETHANE	2.400	101	28558	4.4365123 ppb	99
11) DICHLOROFLUOROMETHANE	2.437	67	44967	4.6223343 ppb	98
12) ETHYL ETHER	2.607	59	21053	4.7560190 ppb	94
13) ACROLEIN	2.954	56	18985	23.8608939 ppb	97
14) 1,1-DICHLOROETHENE	2.753	61	33600	4.4794928 ppb	96
15) 1,1,2-TRICHLOROTRIFLUO...	2.765	101	21339	4.4770564 ppb	98
16) ACETONE	3.124	43	35314	24.2048683 ppb	97
17) IODOMETHANE	2.857	142	113869	20.4279113 ppb	100
18) CARBON DISULFIDE	2.784	76	84589	4.3121470 ppb	100
19) METHYLENE CHLORIDE	3.106	84	27382	4.5408470 ppb	98
20) ACRYLONITRILE	3.587	53	49256	24.2378980 ppb	98
21) n-Hexane	3.234	56	25442	4.5827312 ppb	93
22) TRANS-1,2-DICHLOROETHENE	3.203	96	25420	4.3341288 ppb	99
23) METHYL TERT-BUTYL ETHER	3.246	73	73600	4.8871753 ppb	94
24) 1,1-DICHLOROETHANE	3.562	63	44031	4.5104825 ppb	98
25) VINYL ACETATE	3.672	43	230809	25.4235677 ppb	99
26) DI-ISOPROPYL ETHER	3.453	45	87085	4.7206157 ppb	100
27) 2,2-Dichloropropane	3.927	77	37012	4.6192120 ppb	99
28) CIS-1,2-DICHLOROETHENE	3.866	96	27549	4.4412201 ppb	97
29) 2-BUTANONE (MEK)	4.171	72	16612	23.0208018 ppb	88
30) BROMOCHLOROMETHANE	3.982	130	15476	4.7984657 ppb	92
31) TETRAHYDROFURAN	4.104	42	10012	5.7699599 ppb #	92
32) CHLOROFORM	4.006	83	41196	4.3089694 ppb	96
34) 1,1,1-TRICHLOROETHANE	4.146	97	32190	4.1971724 ppb	97
35) CARBON TETRACHLORIDE	4.104	117	23953	4.2536616 ppb	82

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\112414\
Data File : 1124 07A.D
Acq On : 24 Nov 2014 6:45 pm
Operator : 644
Sample : RL VMS 5.0 ppb 14K20062
Misc : water IS/SURR14I25028
ALS Vial : 7 Sample Multiplier: 1
InstName : VOCMS7

Quant Time: Nov 25 14:05:21 2014
Quant Method : C:\msdchem\1\methods\V807K24N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS07
QLast Update : Tue Nov 25 14:00:56 2014
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc Units		Dev(Min)
36)	1,1-Dichloropropene	4.207	75	35325	4.6243674 ppb		98
37)	2,2,4-TRIMETHYLPENTANE	4.250	57	105680	4.3469389 ppb		99
38)	HEPTANE	4.292	43	43636	4.4347388 ppb		98
39)	BENZENE	4.353	78	103383	4.5014437 ppb		97
40)	1,2-DICHLOROETHANE	4.469	62	29212	4.8863518 ppb		98
42)	TRICHLOROETHENE	4.682	130	23621	4.4875581 ppb		100
43)	1,2-DICHLOROPROPANE	4.992	62	19968	4.8259274 ppb		93
44)	DIBROMOMETHANE	4.937	93	14598	4.7442678 ppb		97
45)	BROMODICHLOROMETHANE	5.016	83	33436	4.6984807 ppb		99
47)	2-CHLOROETHYL VINYL ETHER	5.333	63	841	20.9908218 ppb	#	50
48)	CIS-1,3-DICHLOROPROPENE	5.393	75	44827	4.7921870 ppb		98
49)	4-METHYL-2-PENTANONE (...	5.765	58	53751	24.2629588 ppb		99
51)	TOLUENE	5.552	91	108840	4.4419168 ppb		100
52)	TRANS-1,3-DICHLOROPROPENE	5.795	110	9878	4.8724697 ppb		97
54)	1,1,2-TRICHLOROETHANE	5.911	97	23133	4.6186196 ppb		98
55)	TETRACHLOROETHENE	5.801	164	17744	4.5226612 ppb		99
56)	1,3-Dichloropropane	6.099	76	39752	4.6650258 ppb		100
57)	2-HEXANONE	6.306	58	55284	23.9795501 ppb		98
58)	CHLORODIBROMOMETHANE	6.038	129	20990	4.5640420 ppb		99
59)	1,2-DIBROMOETHANE	6.215	107	23926	4.9481600 ppb		98
60)	CHLOROBENZENE	6.555	112	68805	4.6384938 ppb		97
61)	1,1,1,2-TETRACHLOROETHANE	6.592	133	20528	4.8094122 ppb	#	98
62)	ETHYLBENZENE	6.555	106	37971	4.5214458 ppb		93
63)	M&P-XYLENE	6.653	106	97468	9.1591281 ppb		100
64)	O-XYLENE	6.957	106	47749	4.6002514 ppb		99
65)	STYRENE	6.993	104	76751	4.6364223 ppb		98
66)	Bromoform	7.036	173	13981	4.9617662 ppb		97
67)	Isopropylbenzene	7.176	105	119025	4.5977470 ppb		98
69)	Bromobenzene	7.492	77	52104	4.6985616 ppb		100
70)	1,1,2,2-TETRACHLOROETHANE	7.529	83	33078	4.6267498 ppb		99
71)	1,2,3-TRICHLOROPROPANE	7.650	110	8169	4.9854277 ppb		92
72)	TRANS-1,4-DICHLORO-2-B...	7.663	53	8238	4.8609719 ppb		98
73)	n-Propylbenzene	7.480	91	140854	4.5736871 ppb		99
74)	4-ETHYLTOLUENE	7.559	105	115588	4.5154721 ppb		100
75)	2-Chlorotoluene	7.620	126	25574	4.5101458 ppb		97
76)	4-Chlorotoluene	7.742	91	85793	4.5240792 ppb		98
77)	1,3,5-Trimethylbenzene	7.620	105	94089	4.5146920 ppb		99
78)	tert-Butylbenzene	7.869	119	80133	4.5985405 ppb		100
79)	1,2,4-Trimethylbenzene	7.918	105	99206	4.5563370 ppb		98
80)	sec-Butylbenzene	8.003	105	130911	4.6132276 ppb		98
81)	1,3-DICHLOROBENZENE	8.198	146	52876	4.6837847 ppb		100
82)	p-Isopropyltoluene	8.107	119	104304	4.6265976 ppb		99
83)	DICYCLOPENTADIENE	8.113	66	119502	4.7203934 ppb		99
85)	1,4-DICHLOROBENZENE	8.265	146	50454	4.6810908 ppb	#	1
86)	1,2,3-TRIMETHYLBENZENE	8.265	105	97336	4.6450026 ppb		98
87)	1,2-DICHLOROBENZENE	8.600	146	50454	4.7770859 ppb		99
88)	n-Butylbenzene	8.441	91	101054	4.6052398 ppb		99
89)	1,2-Dibromo-3-chloropr...	9.238	157	6092	4.7617815 ppb		98
90)	1,2,4-Trichlorobenzene	9.798	180	31396	4.7647455 ppb		98
91)	HEXACHLORO-1,3-BUTADIENE	9.755	225	14112	4.5102321 ppb		99
92)	Naphthalene	10.072	128	90984	4.7464953 ppb		99
93)	1,2,3-Trichlorobenzene	10.224	180	29148	4.9392757 ppb		97
94)	1-Methylnaphthalene	10.881	142	37030	4.3702422 ppb		97
95)	2-Methylnaphthalene	11.003	142	33214	4.9867241 ppb		100

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\112414\
Data File : 1124 07A.D
Acq On : 24 Nov 2014 6:45 pm
Operator : 644
Sample : RL VMS 5.0 ppb 14K20062
Misc : water IS/SURR14I25028
ALS Vial : 7 Sample Multiplier: 1
InstName : VOCMS7

Quant Time: Nov 25 14:05:21 2014
Quant Method : C:\msdchem\1\methods\V807K24N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS07
QLast Update : Tue Nov 25 14:00:56 2014
Response via : Initial Calibration

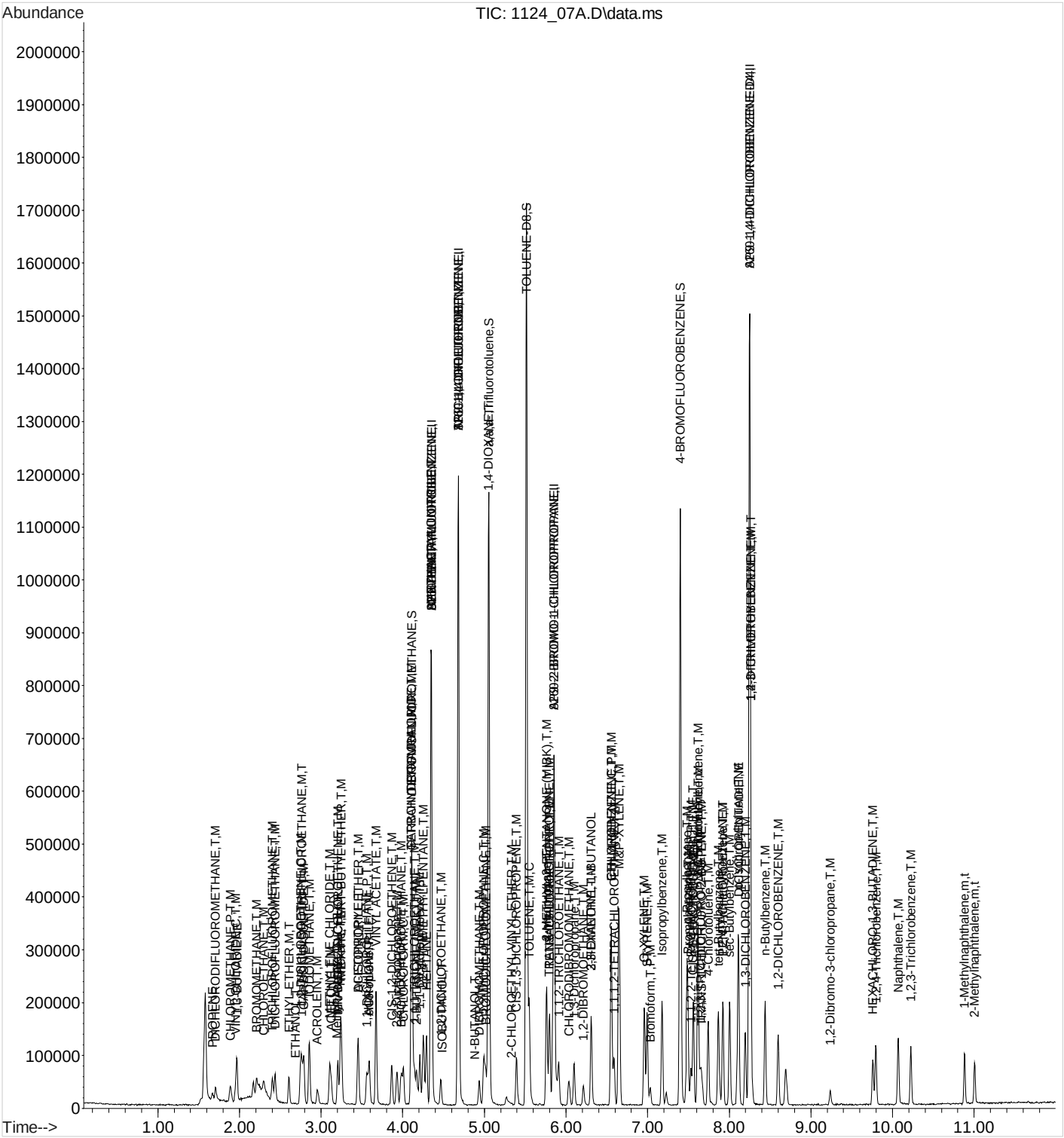
	Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
97)	ETHANOL	2.686	45	601	7.4720660 ppb #	12
98)	Bromoethane	0.000		0	N.D.	
99)	2-PROPANOL	0.000		0	N.D.	
100)	Methyl Acetate	3.191	43	1629	0.4884079 ppb #	52
101)	ACETONITRILE	3.453	41	12528	18.3701164 ppb #	27
102)	ALLYL CHLORIDE	0.000		0	N.D.	
103)	tert-BUTYL ALCOHOL	3.203	59	1111	1.1935015 ppb #	57
104)	chloroprene	3.587	53	49256	11.0231792 ppb #	18
105)	ETHYL TERT-BUTYL ETHER	0.000		0	N.D.	
106)	PROPIONITRILE	0.000		0	N.D.	
107)	Ethyl Acetate	4.043	43	756	N.D.	
108)	METHACRYLONITRILE	4.347	67	1170	0.5571651 ppb #	1
109)	Cyclohexane	4.000	84	1815	N.D.	
110)	tert-butyl formate	0.000		0	N.D.	
111)	ISOBUTANOL	4.481	43	649	2.1411910 ppb #	99
112)	t-Amyl Alcohol	0.000		0	N.D.	
113)	TERT-AMYL METHYL ETHER	4.353	73	2125	N.D.	
115)	N-BUTANOL	4.882	56	680	3.6070258 ppb #	22
116)	Methyl Cyclohexane	4.676	83	8424	N.D.	
117)	2-nitropropane	5.765	43	125084	90.3025297 ppb #	37
118)	METHYL METHACRYLATE	5.126	41	733	N.D.	
119)	1,4-DIOXANE	5.047	88	3290	50.7902086 ppb #	100
120)	n-octane	5.393	85	1148	N.D.	
121)	3,3-DIMETHYL-1-BUTANOL	6.306	57	18568	31.5792548 ppb #	41
123)	ETHYL METHACRYLATE	5.862	69	749	N.D.	
124)	CIS-1,4-DICHLORO-2-BUTENE	7.553	53	1363	0.8559090 ppb #	2
125)	Cyclohexanone	7.590	55	1052	No Calib #	
126)	PENTACHLOROETHANE	7.918	117	3302	0.9940511 ppb #	14
127)	Hexachloroethane	8.441	117	719	N.D.	

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\112414\
Data File : 1124 07A.D
Acq On : 24 Nov 2014 6:45 pm
Operator : 644
Sample : RL VMS 5.0 ppb 14K20062
Misc : water IS/SURR14I25028
ALS Vial : 7 Sample Multiplier: 1
InstName : VOCMS7

Quant Time: Nov 25 14:05:21 2014
Quant Method : C:\msdchem\1\methods\V807K24N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS07
QLast Update : Tue Nov 25 14:00:56 2014
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\112414\
Data File : 1124 18A.D
Acq On : 24 Nov 2014 10:17 pm
Operator : 644
Sample : RL VMS 1a ppb 14I02840
Misc : water IS/SURR14I25028
ALS Vial : 18 Sample Multiplier: 1
InstName : VOCMS7

Quant Time: Nov 25 14:06:56 2014
Quant Method : C:\msdchem\1\methods\V807K24N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS07
QLast Update : Tue Nov 25 14:00:56 2014
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 8260-PENTAFLUOROBENZENE	4.353	168	392353	40.0000000 ppb	0.00
41) 8260-1,4-DIFLUOROBENZENE	4.681	114	708422	40.0000000 ppb	0.00
53) 8260-2-BROMO-1-CHLOROP...	5.850	79	119632	40.0000000 ppb	0.00
84) 8260-1,4-DICHLOROBENZE...	8.253	152	339190	40.0000000 ppb	0.00
96) AP9-PENTAFLUOROBENZENE	4.353	168	392353	40.0000000 ppb	0.00
114) AP9-1,4-DIFLUOROBENZENE	4.681	114	708422	40.0000000 ppb	0.00
122) AP9-2-BROMO-1-CHLOROPR...	5.850	79	119632	40.0000000 ppb	# 0.00
128) AP9-1,4-DICHLOROBENZEN...	8.253	152	339190	40.0000000 ppb	0.00
System Monitoring Compounds					
33) DIBROMOFLUOROMETHANE	4.110	111	206843	40.8104501 ppb	0.00
Spiked Amount 40.000	Range 78 - 121		Recovery = 102.03%		
46) a,a,a-Trifluorotoluene	5.053	146	396249	42.1478712 ppb	0.00
Spiked Amount 40.000	Range 85 - 114		Recovery = 105.37%		
50) TOLUENE-D8	5.515	98	881310	41.2336304 ppb	0.00
Spiked Amount 40.000	Range 89 - 111		Recovery = 103.08%		
68) 4-BROMOFLUOROBENZENE	7.401	95	339134	40.6074706 ppb	0.00
Spiked Amount 40.000	Range 71 - 126		Recovery = 101.52%		
Target Compounds					Qvalue
2) TPH (GC/MS) LOW FRACTION	4.406	TIC -2825107		No Calib	
3) PROPENE	1.670	41	1734	1.3332149 ppb #	53
4) DICHLORODIFLUOROMETHANE	0.000		0	N.D.	
5) CHLOROMETHANE	0.000		0	N.D.	
6) VINYL CHLORIDE	0.000		0	N.D.	
7) 1,3-BUTADIENE	1.968	39	1380	N.D.	
8) BROMOMETHANE	2.218	94	1275	0.5939264 ppb #	67
9) CHLOROETHANE	0.000		0	N.D.	
10) TRICHLOROFLUOROMETHANE	0.000		0	N.D.	
11) DICHLOROFLUOROMETHANE	2.443	67	603	N.D.	
12) ETHYL ETHER	0.000		0	N.D.	
13) ACROLEIN	2.966	56	619	0.8040078 ppb #	1
14) 1,1-DICHLOROETHENE	0.000		0	N.D.	
15) 1,1,2-TRICHLOROTRIFLUO...	0.000		0	N.D.	
16) ACETONE	3.124	43	3554	2.5174843 ppb	93
17) IODOMETHANE	2.856	142	1651	0.3060970 ppb #	49
18) CARBON DISULFIDE	2.789	76	2356	N.D.	
19) METHYLENE CHLORIDE	3.112	84	777	N.D.	
20) ACRYLONITRILE	3.544	53	21640	11.0049127 ppb #	49
21) n-Hexane	0.000		0	N.D.	
22) TRANS-1,2-DICHLOROETHENE	0.000		0	N.D.	
23) METHYL TERT-BUTYL ETHER	0.000		0	N.D.	
24) 1,1-DICHLOROETHANE	0.000		0	N.D.	
25) VINYL ACETATE	3.666	43	2352	N.D.	
26) DI-ISOPROPYL ETHER	0.000		0	N.D.	
27) 2,2-Dichloropropane	0.000		0	N.D.	
28) CIS-1,2-DICHLOROETHENE	0.000		0	N.D.	
29) 2-BUTANONE (MEK)	0.000		0	N.D.	
30) BROMOCHLOROMETHANE	0.000		0	N.D.	
31) TETRAHYDROFURAN	4.097	42	802	0.4776611 ppb #	43
32) CHLOROFORM	3.976	83	805	N.D.	
34) 1,1,1-TRICHLOROETHANE	0.000		0	N.D.	
35) CARBON TETRACHLORIDE	0.000		0	N.D.	

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\112414\
Data File : 1124 18A.D
Acq On : 24 Nov 2014 10:17 pm
Operator : 644
Sample : RL VMS 1a ppb 14I02840
Misc : water IS/SURR14I25028
ALS Vial : 18 Sample Multiplier: 1
InstName : VOCMS7

Quant Time: Nov 25 14:06:56 2014
Quant Method : C:\msdchem\1\methods\V807K24N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS07
QLast Update : Tue Nov 25 14:00:56 2014
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc Units		Dev(Min)
36)	1,1-Dichloropropene	0.000		0	N.D.		
37)	2,2,4-TRIMETHYLPENTANE	4.256	57	36486	1.5509954 ppb	#	2
38)	HEPTANE	4.256	43	6697	0.7033912 ppb	#	1
39)	BENZENE	0.000		0	N.D.		
40)	1,2-DICHLOROETHANE	4.365	62	2885	0.4987269 ppb	#	72
42)	TRICHLOROETHENE	4.688	130	714	N.D.		
43)	1,2-DICHLOROPROPANE	5.047	62	5808	1.4610203 ppb	#	16
44)	DIBROMOMETHANE	0.000		0	N.D.		
45)	BROMODICHLOROMETHANE	5.047	83	664	N.D.		
47)	2-CHLOROETHYL VINYL ETHER	0.000		0	N.D.		
48)	CIS-1,3-DICHLOROPROPENE	0.000		0	N.D.		
49)	4-METHYL-2-PENTANONE (...	5.868	58	1244	0.5844684 ppb	#	34
51)	TOLUENE	5.551	91	3671	N.D.		
52)	TRANS-1,3-DICHLOROPROPENE	0.000		0	N.D.		
54)	1,1,2-TRICHLOROETHANE	0.000		0	N.D.		
55)	TETRACHLOROETHENE	0.000		0	N.D.		
56)	1,3-Dichloropropane	6.099	76	703	N.D.		
57)	2-HEXANONE	6.312	58	1360	0.6080636 ppb	#	7
58)	CHLORODIBROMOMETHANE	0.000		0	N.D.		
59)	1,2-DIBROMOETHANE	0.000		0	N.D.		
60)	CHLOROBENZENE	6.561	112	938	N.D.		
61)	1,1,1,2-TETRACHLOROETHANE	0.000		0	N.D.		
62)	ETHYLBENZENE	6.555	106	789	N.D.		
63)	M&P-XYLENE	6.646	106	2215	N.D.		
64)	O-XYLENE	6.963	106	708	N.D.		
65)	STYRENE	6.993	104	1374	N.D.		
66)	Bromoform	0.000		0	N.D.		
67)	Isopropylbenzene	7.176	105	1592	N.D.		
69)	Bromobenzene	7.486	77	1556	N.D.		
70)	1,1,2,2-TETRACHLOROETHANE	7.529	83	611	N.D.		
71)	1,2,3-TRICHLOROPROPANE	0.000		0	N.D.		
72)	TRANS-1,4-DICHLORO-2-B...	0.000		0	N.D.		
73)	n-Propylbenzene	7.480	91	2848	N.D.		
74)	4-ETHYLTOLUENE	7.559	105	3228	N.D.		
75)	2-Chlorotoluene	0.000		0	N.D.		
76)	4-Chlorotoluene	7.735	91	2121	N.D.		
77)	1,3,5-Trimethylbenzene	7.620	105	1750	N.D.		
78)	tert-Butylbenzene	7.900	119	17708	1.0474822 ppb	#	31
79)	1,2,4-Trimethylbenzene	7.918	105	3166	N.D.		
80)	sec-Butylbenzene	8.003	105	2731	N.D.		
81)	1,3-DICHLOROBENZENE	8.198	146	1664	N.D.		
82)	p-Isopropyltoluene	8.107	119	2522	N.D.		
83)	DICYCLOPENTADIENE	8.113	66	1322	N.D.		
85)	1,4-DICHLOROBENZENE	8.259	146	1779	N.D.		
86)	1,2,3-TRIMETHYLBENZENE	8.265	105	2674	N.D.		
87)	1,2-DICHLOROBENZENE	8.605	146	1521	N.D.		
88)	n-Butylbenzene	8.441	91	3490	N.D.		
89)	1,2-Dibromo-3-chloropr...	0.000		0	N.D.		
90)	1,2,4-Trichlorobenzene	9.798	180	2269	0.3485356 ppb		83
91)	HEXACHLORO-1,3-BUTADIENE	9.755	225	967	0.3128124 ppb	#	18
92)	Naphthalene	10.072	128	7489	0.3954386 ppb		100
93)	1,2,3-Trichlorobenzene	10.224	180	1961	0.3363406 ppb		95
94)	1-Methylnaphthalene	10.887	142	7312	0.8734442 ppb		99
95)	2-Methylnaphthalene	11.008	142	5963	0.9061627 ppb		96

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\112414\
Data File : 1124 18A.D
Acq On : 24 Nov 2014 10:17 pm
Operator : 644
Sample : RL VMS 1a ppb 14I02840
Misc : water IS/SURR14I25028
ALS Vial : 18 Sample Multiplier: 1
InstName : VOCMS7

Quant Time: Nov 25 14:06:56 2014
Quant Method : C:\msdchem\1\methods\V807K24N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS07
QLast Update : Tue Nov 25 14:00:56 2014
Response via : Initial Calibration

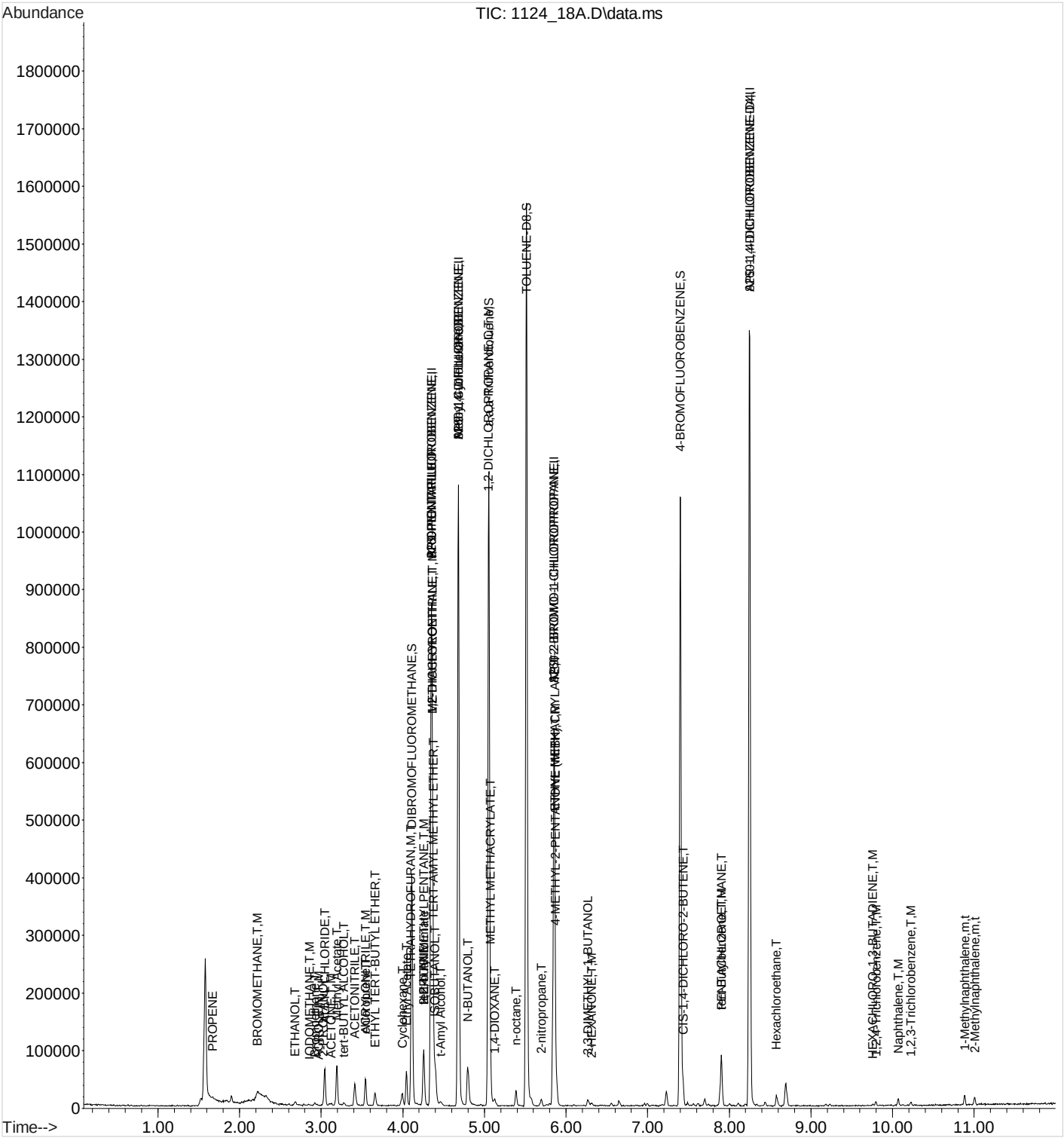
	Compound	R.T.	QIon	Response	Conc Units		Dev(Min)
97)	ETHANOL	2.680	45	8483	108.9956650 ppb	#	86
98)	Bromoethane	2.923	108	3351	1.0774951 ppb		94
99)	2-PROPANOL	3.021	45	2900	6.7031618 ppb	#	75
100)	Methyl Acetate	3.191	43	65842	20.4013151 ppb	#	98
101)	ACETONITRILE	3.410	41	32986	49.9865715 ppb		93
102)	ALLYL CHLORIDE	3.045	76	12489	5.0864992 ppb		82
103)	tert-BUTYL ALCOHOL	3.276	59	4748	5.2712446 ppb	#	90
104)	chloroprene	3.544	53	21640	5.0049358 ppb		100
105)	ETHYL TERT-BUTYL ETHER	3.659	59	15376	1.0115472 ppb		94
106)	PROPIONITRILE	4.353	54	35605	51.9880777 ppb	#	1
107)	Ethyl Acetate	4.043	43	50066	10.3917418 ppb		99
108)	METHACRYLONITRILE	4.365	67	108560	53.4270729 ppb		98
109)	Cyclohexane	3.994	84	6558	1.0484257 ppb		89
110)	tert-butyl formate	4.256	59	44545	10.2078138 ppb		98
111)	ISOBUTANOL	4.396	43	30934	105.4727618 ppb	#	88
112)	t-Amyl Alcohol	4.462	59	2792	5.2652748 ppb		98
113)	TERT-AMYL METHYL ETHER	4.377	73	14148	1.0906106 ppb	#	93
115)	N-BUTANOL	4.797	56	37138	205.0417327 ppb		96
116)	Methyl Cyclohexane	4.681	83	14732	0.9841615 ppb		91
117)	2-nitropropane	5.697	43	9032	6.7868070 ppb		93
118)	METHYL METHACRYLATE	5.071	41	22105	5.3495535 ppb	#	100
119)	1,4-DIOXANE	5.126	88	5820	93.5169846 ppb	#	100
120)	n-octane	5.387	85	4736	1.0958714 ppb		87
121)	3,3-DIMETHYL-1-BUTANOL	6.263	57	5930	10.4972334 ppb		93
123)	ETHYL METHACRYLATE	5.862	69	35012	5.1766540 ppb	#	1
124)	CIS-1,4-DICHLORO-2-BUTENE	7.437	53	7617	4.9304237 ppb	#	24
125)	Cyclohexanone	7.699	55	5373	No Calib		
126)	PENTACHLOROETHANE	7.900	117	17229	5.3463851 ppb		94
127)	Hexachloroethane	8.575	117	3516	0.9264431 ppb		96

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\112414\
Data File : 1124 18A.D
Acq On : 24 Nov 2014 10:17 pm
Operator : 644
Sample : RL VMS 1a ppb 14I02840
Misc : water IS/SURR14I25028
ALS Vial : 18 Sample Multiplier: 1
InstName : VOCMS7

Quant Time: Nov 25 14:06:56 2014
Quant Method : C:\msdchem\1\methods\V807K24N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS07
QLast Update : Tue Nov 25 14:00:56 2014
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\112414\
Data File : 1124 15.D
Acq On : 24 Nov 2014 9:19 pm
Operator : 644
Sample : SSCV VMS 25 ppb 14K20064
Misc : water IS/SURR14I25028
ALS Vial : 15 Sample Multiplier: 1
InstName : VOCMS7

Quant Time: Nov 25 13:49:32 2014
Quant Method : C:\msdchem\1\methods\V807K24N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS07
QLast Update : Tue Nov 25 13:49:20 2014
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 8260-PENTAFLUOROBENZENE	4.353	168	381656	40.0000000 ppb	0.00
41) 8260-1,4-DIFLUOROBENZENE	4.682	114	709302	40.0000000 ppb	0.00
53) 8260-2-BROMO-1-CHLOROP...	5.850	79	118364	40.0000000 ppb	0.00
84) 8260-1,4-DICHLOROBENZE...	8.253	152	330211	40.0000000 ppb	0.00
96) AP9-PENTAFLUOROBENZENE	4.353	168	381656	40.0000000 ppb	0.00
114) AP9-1,4-DIFLUOROBENZENE	4.682	114	709302	40.0000000 ppb	0.00
122) AP9-2-BROMO-1-CHLOROPR...	5.850	79	118364	40.0000000 ppb	0.00
128) AP9-1,4-DICHLOROBENZEN...	8.253	152	330211	40.0000000 ppb	0.00
System Monitoring Compounds					
33) DIBROMOFLUOROMETHANE	4.110	111	202682	41.1102977 ppb	0.00
Spiked Amount 40.000	Range 78 - 121		Recovery = 102.78%		
46) a,a,a-Trifluorotoluene	5.053	146	390328	41.4665617 ppb	0.00
Spiked Amount 40.000	Range 85 - 114		Recovery = 103.67%		
50) TOLUENE-D8	5.515	98	885669	41.3861640 ppb	0.00
Spiked Amount 40.000	Range 89 - 111		Recovery = 103.47%		
68) 4-BROMOFLUOROBENZENE	7.401	95	339968	41.1434189 ppb	0.00
Spiked Amount 40.000	Range 71 - 126		Recovery = 102.86%		
Target Compounds					Qvalue
2) TPH (GC/MS) LOW FRACTION	4.406	TIC	1779163	No Calib	
3) PROPENE	1.670	41	29646	23.4326858 ppb	93
4) DICHLORODIFLUOROMETHANE	1.707	85	107292	19.6478770 ppb	97
5) CHLOROMETHANE	1.889	50	146951	22.5213298 ppb	99
6) VINYL CHLORIDE	1.950	62	148906	23.0433853 ppb	99
7) 1,3-BUTADIENE	1.968	39	101690	21.5299147 ppb	96
8) BROMOMETHANE	2.206	94	55696	26.6717408 ppb	93
9) CHLOROETHANE	2.297	66	23459	24.4761750 ppb	94
10) TRICHLOROFLUOROMETHANE	2.400	101	140509	23.1908387 ppb	98
11) DICHLOROFLUOROMETHANE	2.437	67	206927	22.5986767 ppb	99
12) ETHYL ETHER	2.601	59	93831	22.5203092 ppb	97
13) ACROLEIN	2.954	56	91725	122.4791723 ppb	99
14) 1,1-DICHLOROETHENE	2.753	61	161555	22.8827590 ppb	96
15) 1,1,2-TRICHLOROTRIFLUO...	2.765	101	106147	23.6605393 ppb	98
16) ACETONE	3.124	43	153833	112.0221068 ppb	99
17) IODOMETHANE	2.856	142	635047	121.0382790 ppb	99
18) CARBON DISULFIDE	2.783	76	394180	21.3487607 ppb	100
19) METHYLENE CHLORIDE	3.106	84	118556	20.8878459 ppb	99
20) ACRYLONITRILE	3.587	53	214584	112.1841660 ppb	99
21) n-Hexane	3.240	56	114153	21.8453437 ppb	98
22) TRANS-1,2-DICHLOROETHENE	3.203	96	115750	20.9674533 ppb	97
23) METHYL TERT-BUTYL ETHER	3.246	73	320138	22.5847738 ppb	100
24) 1,1-DICHLOROETHANE	3.562	63	211579	23.0268976 ppb	99
25) VINYL ACETATE	3.672	43	928965	108.7130106 ppb	100
26) DI-ISOPROPYL ETHER	3.453	45	382072	22.0038621 ppb	100
27) 2,2-Dichloropropane	3.933	77	162412	21.5348509 ppb	100
28) CIS-1,2-DICHLOROETHENE	3.866	96	128025	21.9275270 ppb	99
29) 2-BUTANONE (MEK)	4.171	72	79479	117.0171005 ppb	100
30) BROMOCHLOROMETHANE	3.982	130	71373	23.5112673 ppb	96
31) TETRAHYDROFURAN	4.104	42	38237	23.4117661 ppb	96
32) CHLOROFORM	4.006	83	190523	21.1721122 ppb	99
34) 1,1,1-TRICHLOROETHANE	4.140	97	149484	20.7075612 ppb	99
35) CARBON TETRACHLORIDE	4.104	117	120496	22.7339061 ppb	100

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\112414\
Data File : 1124 15.D
Acq On : 24 Nov 2014 9:19 pm
Operator : 644
Sample : SSCV VMS 25 ppb 14K20064
Misc : water IS/SURR14I25028
ALS Vial : 15 Sample Multiplier: 1
InstName : VOCMS7

Quant Time: Nov 25 13:49:32 2014
Quant Method : C:\msdchem\1\methods\V807K24N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS07
QLast Update : Tue Nov 25 13:49:20 2014
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units		Dev(Min)
36) 1,1-Dichloropropene	4.207	75	162394	22.5859601 ppb		100
37) 2,2,4-TRIMETHYLPENTANE	4.250	57	516845	22.5865272 ppb		97
38) HEPTANE	4.292	43	201893	21.7993122 ppb		99
39) BENZENE	4.353	78	465841	21.5495805 ppb		100
40) 1,2-DICHLOROETHANE	4.463	62	129755	23.0592915 ppb		99
42) TRICHLOROETHENE	4.682	130	115931	22.8957913 ppb		98
43) 1,2-DICHLOROPROPANE	4.992	62	89736	22.5453610 ppb		98
44) DIBROMOMETHANE	4.937	93	66631	22.5110856 ppb		99
45) BROMODICHLOROMETHANE	5.016	83	146883	21.4565025 ppb		97
47) 2-CHLOROETHYL VINYL ETHER	5.332	63	2398	112.2242833 ppb	#	76
48) CIS-1,3-DICHLOROPROPENE	5.393	75	202226	22.4737394 ppb		100
49) 4-METHYL-2-PENTANONE (...	5.764	58	241292	113.2255405 ppb		99
51) TOLUENE	5.551	91	500272	21.2242497 ppb		99
52) TRANS-1,3-DICHLOROPROPENE	5.801	110	43627	22.3707085 ppb		97
54) 1,1,2-TRICHLOROETHANE	5.910	97	102812	21.3855446 ppb		99
55) TETRACHLOROETHENE	5.801	164	85601	22.7309528 ppb		99
56) 1,3-Dichloropropane	6.099	76	179150	21.9032294 ppb		99
57) 2-HEXANONE	6.306	58	250404	113.1563963 ppb		100
58) CHLORODIBROMOMETHANE	6.038	129	102236	23.1599341 ppb		99
59) 1,2-DIBROMOETHANE	6.215	107	104844	22.5898573 ppb		99
60) CHLOROBENZENE	6.555	112	316197	22.2080793 ppb		100
61) 1,1,1,2-TETRACHLOROETHANE	6.586	133	92934	22.6838237 ppb	#	99
62) ETHYLBENZENE	6.555	106	180259	22.3624058 ppb		100
63) M&P-XYLENE	6.647	106	436641	42.7477111 ppb		99
64) O-XYLENE	6.957	106	217505	21.8314613 ppb		99
65) STYRENE	6.993	104	358267	22.5476882 ppb		99
66) Bromoform	7.036	173	63083	23.3241955 ppb		99
67) Isopropylbenzene	7.176	105	552641	22.2405873 ppb		100
69) Bromobenzene	7.492	77	229776	21.5871246 ppb		99
70) 1,1,2,2-TETRACHLOROETHANE	7.529	83	143053	20.8463497 ppb		100
71) 1,2,3-TRICHLOROPROPANE	7.650	110	34807	22.1307635 ppb		89
72) TRANS-1,4-DICHLORO-2-B...	7.662	53	35989	22.1241898 ppb		96
73) n-Propylbenzene	7.480	91	654423	22.1386988 ppb		100
74) 4-ETHYLTOLUENE	7.559	105	534935	21.7714674 ppb		100
75) 2-Chlorotoluene	7.620	126	117575	21.6024585 ppb		99
76) 4-Chlorotoluene	7.742	91	394842	21.6919183 ppb		99
77) 1,3,5-Trimethylbenzene	7.620	105	438438	21.9176371 ppb		100
78) tert-Butylbenzene	7.869	119	374692	22.4016138 ppb		100
79) 1,2,4-Trimethylbenzene	7.918	105	446989	21.3880408 ppb		99
80) sec-Butylbenzene	8.003	105	606177	22.2548398 ppb		100
81) 1,3-DICHLOROBENZENE	8.198	146	240276	22.1740485 ppb		99
82) p-Isopropyltoluene	8.107	119	483576	22.3471309 ppb		99
83) DICYCLOPENTADIENE	8.113	66	539214	22.1901612 ppb		100
85) 1,4-DICHLOROBENZENE	8.265	146	232524	22.4294156 ppb		89
86) 1,2,3-TRIMETHYLBENZENE	8.265	105	440154	21.8381492 ppb		100
87) 1,2-DICHLOROBENZENE	8.599	146	229217	22.5638384 ppb		100
88) n-Butylbenzene	8.441	91	471403	22.3351972 ppb		99
89) 1,2-Dibromo-3-chloropr...	9.244	157	29263	23.7808367 ppb		97
90) 1,2,4-Trichlorobenzene	9.798	180	147067	23.2048802 ppb		99
91) HEXACHLORO-1,3-BUTADIENE	9.761	225	72392	24.0546816 ppb		96
92) Naphthalene	10.072	128	437086	23.7068386 ppb		99
93) 1,2,3-Trichlorobenzene	10.224	180	133460	23.5127995 ppb		99
94) 1-Methylnaphthalene	10.881	142	211676	25.9730004 ppb		99
95) 2-Methylnaphthalene	11.002	142	175524	27.3986635 ppb		98

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\112414\
Data File : 1124 15.D
Acq On : 24 Nov 2014 9:19 pm
Operator : 644
Sample : SSCV VMS 25 ppb 14K20064
Misc : water IS/SURR14I25028
ALS Vial : 15 Sample Multiplier: 1
InstName : VOCMS7

Quant Time: Nov 25 13:49:32 2014
Quant Method : C:\msdchem\1\methods\V807K24N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS07
QLast Update : Tue Nov 25 13:49:20 2014
Response via : Initial Calibration

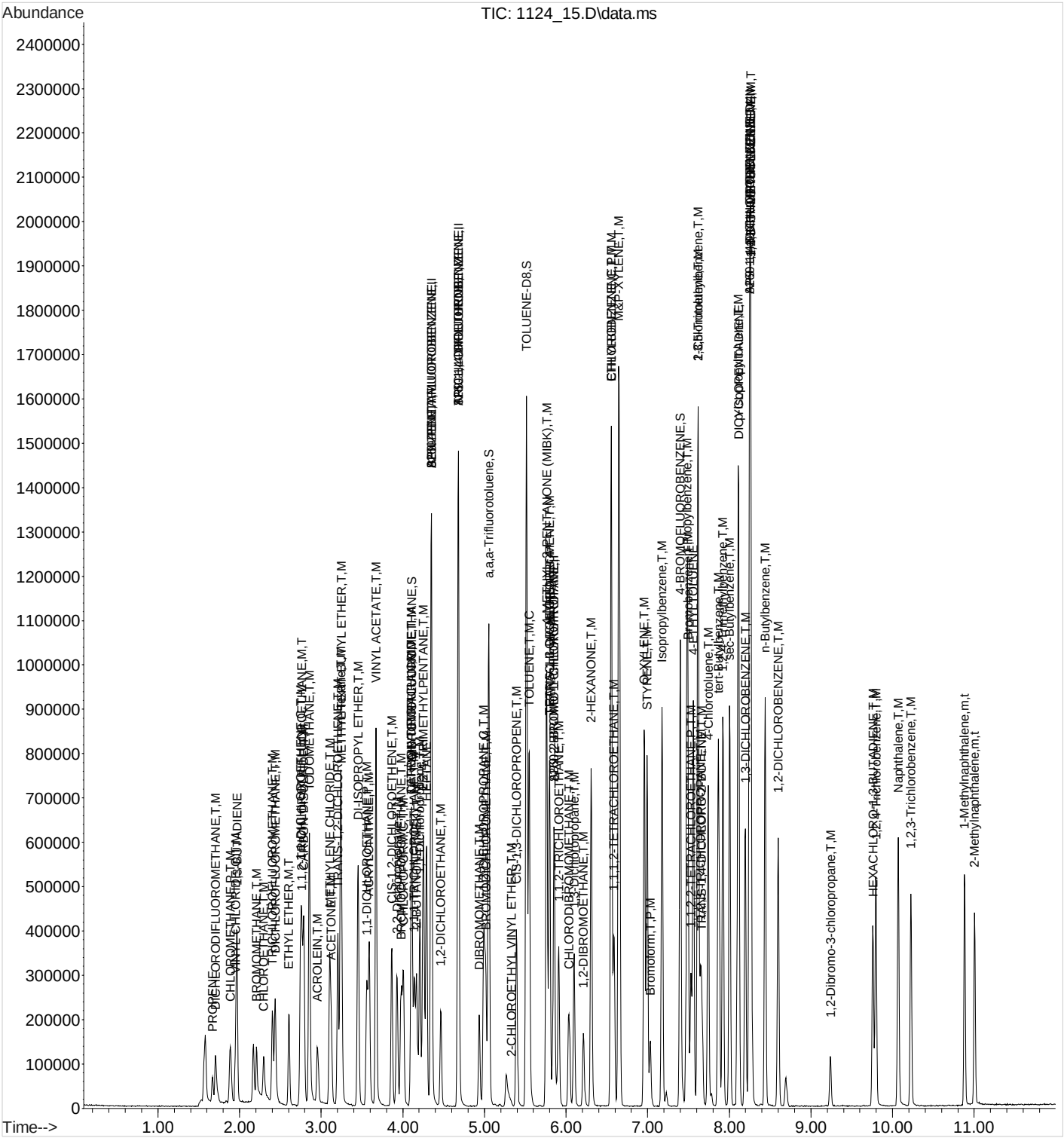
	Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
97)	ETHANOL	2.783	45	1357	No Calib	#
98)	Bromoethane	0.000		0	N.D.	
99)	2-PROPANOL	0.000		0	N.D.	
100)	Methyl Acetate	3.191	43	7668	No Calib	#
101)	ACETONITRILE	3.453	41	55197	No Calib	
102)	ALLYL CHLORIDE	2.996	76	776	No Calib	#
103)	tert-BUTYL ALCOHOL	3.276	59	542	No Calib	#
104)	chloroprene	3.587	53	214584	No Calib	#
105)	ETHYL TERT-BUTYL ETHER	0.000		0	N.D.	
106)	PROPIONITRILE	4.286	54	950	No Calib	#
107)	Ethyl Acetate	4.043	43	1270	No Calib	#
108)	METHACRYLONITRILE	4.353	67	1225	No Calib	#
109)	Cyclohexane	4.006	84	5911	No Calib	#
110)	tert-butyl formate	4.207	59	621	No Calib	#
111)	ISOBUTANOL	4.432	43	871	No Calib	#
112)	t-Amyl Alcohol	4.469	59	874	No Calib	#
113)	TERT-AMYL METHYL ETHER	4.353	73	7735	No Calib	#
115)	N-BUTANOL	4.682	56	12409	No Calib	#
116)	Methyl Cyclohexane	4.682	83	9586	No Calib	#
117)	2-nitropropane	5.764	43	562107	No Calib	
118)	METHYL METHACRYLATE	5.126	41	575	No Calib	#
119)	1,4-DIOXANE	5.047	88	3516	No Calib	#
120)	n-octane	5.393	85	2876	No Calib	#
121)	3,3-DIMETHYL-1-BUTANOL	6.306	57	85157	No Calib	#
123)	ETHYL METHACRYLATE	5.990	69	646	No Calib	#
124)	CIS-1,4-DICHLORO-2-BUTENE	7.431	53	1905	No Calib	#
125)	Cyclohexanone	7.802	55	519	No Calib	#
126)	PENTACHLOROETHANE	7.918	117	14990	No Calib	#
127)	Hexachloroethane	8.581	117	878	No Calib	#

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\112414\
Data File : 1124 15.D
Acq On : 24 Nov 2014 9:19 pm
Operator : 644
Sample : SSCV VMS 25 ppb 14K20064
Misc : water IS/SURR14I25028
ALS Vial : 15 Sample Multiplier: 1
InstName : VOCMS7

Quant Time: Nov 25 13:49:32 2014
Quant Method : C:\msdchem\1\methods\V807K24N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS07
QLast Update : Tue Nov 25 13:49:20 2014
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\112414\
Data File : 1124 28.D
Acq On : 25 Nov 2014 1:29 am
Operator : 644
Sample : SSCV VMS 10a ppb 14I02844
Misc : water IS/SURR14I25028
ALS Vial : 28 Sample Multiplier: 1
InstName : VOCMS7

Quant Time: Nov 25 14:01:11 2014
Quant Method : C:\msdchem\1\methods\V807K24N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS07
QLast Update : Tue Nov 25 14:00:56 2014
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 8260-PENTAFLUOROBENZENE	4.347	168	385242	40.0000000	ppb		0.00
41) 8260-1,4-DIFLUOROBENZENE	4.682	114	705138	40.0000000	ppb		0.00
53) 8260-2-BROMO-1-CHLOROP...	5.850	79	116250	40.0000000	ppb	#	0.00
84) 8260-1,4-DICHLOROBENZE...	8.253	152	329234	40.0000000	ppb		0.00
96) AP9-PENTAFLUOROBENZENE	4.347	168	385242	40.0000000	ppb		0.00
114) AP9-1,4-DIFLUOROBENZENE	4.682	114	705138	40.0000000	ppb		0.00
122) AP9-2-BROMO-1-CHLOROPR...	5.850	79	116250	40.0000000	ppb		0.00
128) AP9-1,4-DICHLOROBENZEN...	8.253	152	329234	40.0000000	ppb		0.00
System Monitoring Compounds							
33) DIBROMOFLUOROMETHANE	4.110	111	200213	40.2314957	ppb		0.00
Spiked Amount 40.000	Range 78 - 121		Recovery = 100.58%				
46) a,a,a-Trifluorotoluene	5.053	146	387223	41.3796231	ppb		0.00
Spiked Amount 40.000	Range 85 - 114		Recovery = 103.45%				
50) TOLUENE-D8	5.515	98	865286	40.6724630	ppb		0.00
Spiked Amount 40.000	Range 89 - 111		Recovery = 101.68%				
68) 4-BROMOFLUOROBENZENE	7.401	95	334388	41.2040298	ppb		0.00
Spiked Amount 40.000	Range 71 - 126		Recovery = 103.01%				
Target Compounds							Qvalue
2) TPH (GC/MS) LOW FRACTION	4.406	TIC	5061580	No Calib			
3) PROPENE	1.664	41	1564	1.2247041	ppb	#	44
4) DICHLORODIFLUOROMETHANE	0.000		0	N.D.			
5) CHLOROMETHANE	1.901	50	1757	0.2667668	ppb	#	42
6) VINYL CHLORIDE	0.000		0	N.D.			
7) 1,3-BUTADIENE	1.962	39	2265	0.4750844	ppb		99
8) BROMOMETHANE	2.218	94	1049	0.4976698	ppb	#	12
9) CHLOROETHANE	0.000		0	N.D.			
10) TRICHLOROFLUOROMETHANE	0.000		0	N.D.			
11) DICHLOROFLUOROMETHANE	2.425	67	513	0.0555037	ppb	#	1
12) ETHYL ETHER	0.000		0	N.D.			
13) ACROLEIN	0.000		0	N.D.			
14) 1,1-DICHLOROETHENE	0.000		0	N.D.			
15) 1,1,2-TRICHLOROTRIFLUO...	0.000		0	N.D.			
16) ACETONE	3.124	43	3682	2.6562960	ppb		96
17) IODOMETHANE	2.857	142	2882	0.5441884	ppb	#	88
18) CARBON DISULFIDE	2.784	76	1759	0.0943805	ppb	#	31
19) METHYLENE CHLORIDE	3.106	84	2106	0.3675928	ppb	#	80
20) ACRYLONITRILE	3.544	53	224923	116.4948053	ppb	#	50
21) n-Hexane	3.282	56	1172	0.2221967	ppb	#	1
22) TRANS-1,2-DICHLOROETHENE	0.000		0	N.D.			
23) METHYL TERT-BUTYL ETHER	3.252	73	1067	0.0745730	ppb	#	42
24) 1,1-DICHLOROETHANE	3.544	63	3389	0.3654037	ppb	#	42
25) VINYL ACETATE	3.660	43	12285	1.4242814	ppb	#	74
26) DI-ISOPROPYL ETHER	0.000		0	N.D.			
27) 2,2-Dichloropropane	3.988	77	1086	0.1426567	ppb	#	54
28) CIS-1,2-DICHLOROETHENE	0.000		0	N.D.			
29) 2-BUTANONE (MEK)	4.165	72	595	0.8678654	ppb	#	12
30) BROMOCHLOROMETHANE	0.000		0	N.D.			
31) TETRAHYDROFURAN	4.043	42	29966	18.1768074	ppb	#	46
32) CHLOROFORM	3.994	83	4636	0.5103859	ppb	#	44
34) 1,1,1-TRICHLOROETHANE	0.000		0	N.D.			
35) CARBON TETRACHLORIDE	0.000		0	N.D.			

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\112414\
Data File : 1124 28.D
Acq On : 25 Nov 2014 1:29 am
Operator : 644
Sample : SSCV VMS 10a ppb 14I02844
Misc : water IS/SURR14I25028
ALS Vial : 28 Sample Multiplier: 1
InstName : VOCMS7

Quant Time: Nov 25 14:01:11 2014
Quant Method : C:\msdchem\1\methods\V807K24N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS07
QLast Update : Tue Nov 25 14:00:56 2014
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
36) 1,1-Dichloropropene	0.000		0	N.D.	
37) 2,2,4-TRIMETHYLPENTANE	4.250	57	359417	15.5605958 ppb #	4
38) HEPTANE	4.250	43	59235	6.3363388 ppb #	1
39) BENZENE	4.347	78	723	0.0331343 ppb #	64
40) 1,2-DICHLOROETHANE	4.365	62	24115	4.2456832 ppb #	72
42) TRICHLOROETHENE	4.676	130	4461	0.8862278 ppb #	69
43) 1,2-DICHLOROPROPANE	5.047	62	6179	1.5615854 ppb #	25
44) DIBROMOMETHANE	0.000		0	N.D.	
45) BROMODICHLOROMETHANE	5.065	83	1344	0.1974894 ppb #	1
47) 2-CHLOROETHYL VINYL ETHER	0.000		0	N.D.	
48) CIS-1,3-DICHLOROPROPENE	0.000		0	N.D.	
49) 4-METHYL-2-PENTANONE (...	5.862	58	11717	5.5306347 ppb #	22
51) TOLUENE	5.546	91	3484	0.1486830 ppb	91
52) TRANS-1,3-DICHLOROPROPENE	0.000		0	N.D.	
54) 1,1,2-TRICHLOROETHANE	5.862	97	1990	0.4214599 ppb #	1
55) TETRACHLOROETHENE	5.801	164	10630	2.8740792 ppb	99
56) 1,3-Dichloropropane	6.105	76	513	0.0638610 ppb #	42
57) 2-HEXANONE	6.306	58	529	0.2433998 ppb #	1
58) CHLORODIBROMOMETHANE	0.000		0	N.D.	
59) 1,2-DIBROMOETHANE	0.000		0	N.D.	
60) CHLOROBENZENE	0.000		0	N.D.	
61) 1,1,1,2-TETRACHLOROETHANE	6.586	133	2076	0.5159358 ppb #	97
62) ETHYLBENZENE	6.562	106	666	0.0841245 ppb	81
63) M&P-XYLENE	6.647	106	1901	0.1894947 ppb	76
64) O-XYLENE	6.963	106	641	0.0655086 ppb #	35
65) STYRENE	6.987	104	590	0.0378071 ppb #	35
66) Bromoform	0.000		0	N.D.	
67) Isopropylbenzene	7.176	105	845	0.0346247 ppb #	54
69) Bromobenzene	7.486	77	550	0.0526114 ppb #	26
70) 1,1,2,2-TETRACHLOROETHANE	7.425	83	781	0.1158806 ppb #	10
71) 1,2,3-TRICHLOROPROPANE	0.000		0	N.D.	
72) TRANS-1,4-DICHLORO-2-B...	7.669	53	2729	1.7081571 ppb #	83
73) n-Propylbenzene	7.480	91	1230	0.0423668 ppb #	60
74) 4-ETHYLTOLUENE	7.553	105	2224	0.0921612 ppb #	45
75) 2-Chlorotoluene	0.000		0	N.D.	
76) 4-Chlorotoluene	7.742	91	753	0.0421208 ppb #	49
77) 1,3,5-Trimethylbenzene	7.614	105	778	0.0395997 ppb #	27
78) tert-Butylbenzene	7.900	119	155990	9.4957291 ppb #	32
79) 1,2,4-Trimethylbenzene	7.918	105	1838	0.0895460 ppb	96
80) sec-Butylbenzene	8.003	105	647	0.0241856 ppb #	59
81) 1,3-DICHLOROBENZENE	0.000		0	N.D.	
82) p-Isopropyltoluene	8.107	119	844	0.0397124 ppb #	49
83) DICYCLOPENTADIENE	0.000		0	N.D.	
85) 1,4-DICHLOROBENZENE	0.000		0	N.D.	
86) 1,2,3-TRIMETHYLBENZENE	8.265	105	1030	0.0512549 ppb #	42
87) 1,2-DICHLOROBENZENE	0.000		0	N.D.	
88) n-Butylbenzene	8.441	91	1122	0.0533184 ppb #	32
89) 1,2-Dibromo-3-chloropr...	0.000		0	N.D.	
90) 1,2,4-Trichlorobenzene	0.000		0	N.D.	
91) HEXACHLORO-1,3-BUTADIENE	0.000		0	N.D.	
92) Naphthalene	10.072	128	2312	0.1257713 ppb #	72
93) 1,2,3-Trichlorobenzene	0.000		0	N.D.	
94) 1-Methylnaphthalene	10.887	142	1676	0.2062583 ppb #	84
95) 2-Methylnaphthalene	11.003	142	890	0.1393381 ppb #	71

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\112414\
Data File : 1124 28.D
Acq On : 25 Nov 2014 1:29 am
Operator : 644
Sample : SSCV VMS 10a ppb 14I02844
Misc : water IS/SURR14I25028
ALS Vial : 28 Sample Multiplier: 1
InstName : VOCMS7

Quant Time: Nov 25 14:01:11 2014
Quant Method : C:\msdchem\1\methods\V807K24N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS07
QLast Update : Tue Nov 25 14:00:56 2014
Response via : Initial Calibration

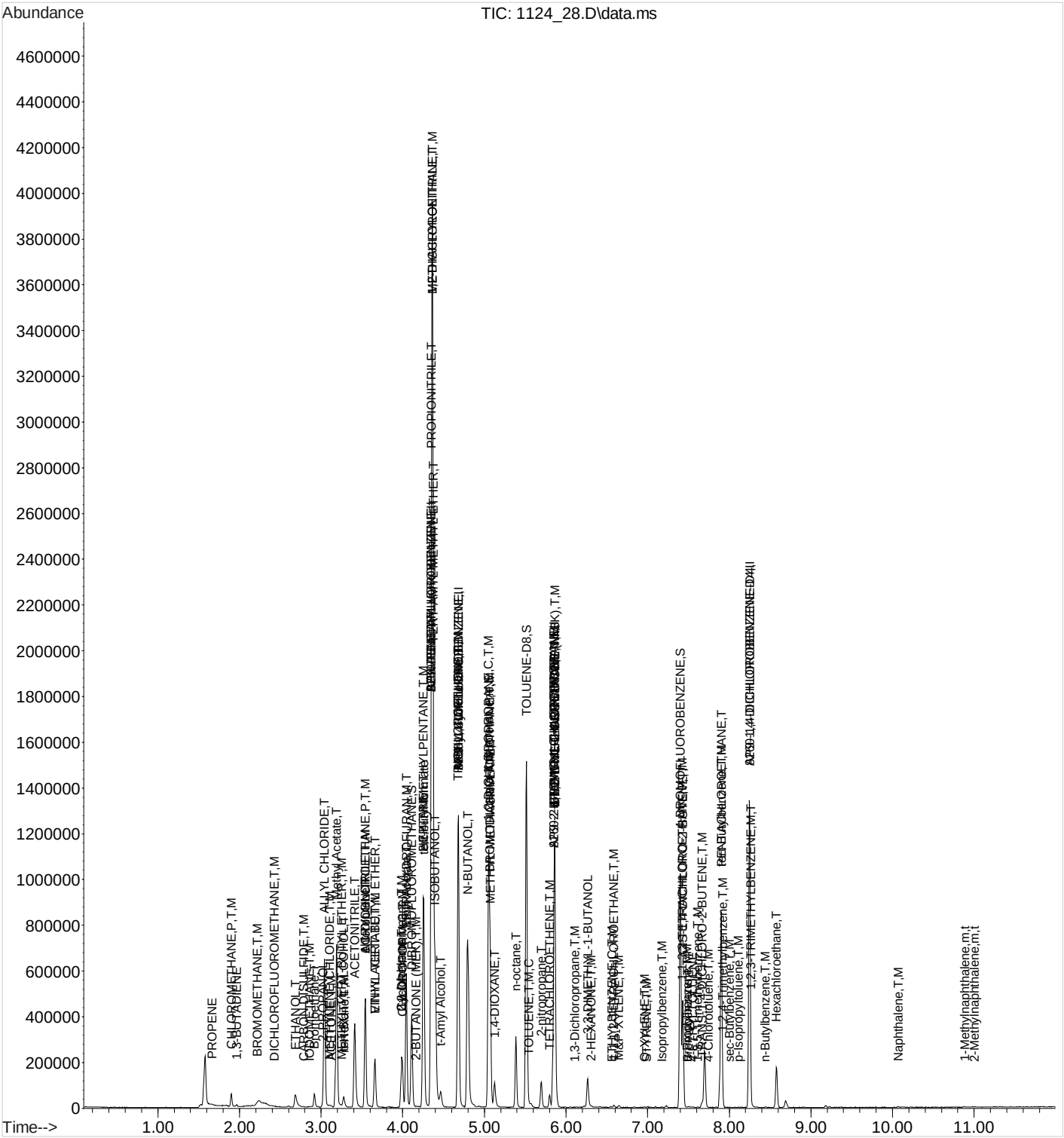
	Compound	R.T.	QIon	Response	Conc Units		Dev(Min)
97)	ETHANOL	2.686	45	78476	1026.9279300 ppb		99
98)	Bromoethane	2.917	108	35388	11.5888478 ppb		100
99)	2-PROPANOL	3.021	45	21153	49.7962937 ppb	#	84
100)	Methyl Acetate	3.185	43	674717	212.9218103 ppb	#	99
101)	ACETONITRILE	3.410	41	341345	526.8179814 ppb		99
102)	ALLYL CHLORIDE	3.039	76	130636	54.1873033 ppb		100
103)	tert-BUTYL ALCOHOL	3.276	59	45865	51.8593662 ppb	#	89
104)	chloroprene	3.544	53	224923	52.9807952 ppb		99
105)	ETHYL TERT-BUTYL ETHER	3.660	59	153149	10.2612502 ppb		98
106)	PROPIONITRILE	4.353	54	355999	529.4011689 ppb	#	19
107)	Ethyl Acetate	4.043	43	486688	102.8820096 ppb		99
108)	METHACRYLONITRILE	4.365	67	1039155	520.8530685 ppb		99
109)	Cyclohexane	3.988	84	72543	11.8115019 ppb		98
110)	tert-butyl formate	4.256	59	446559	104.2211762 ppb		99
111)	ISOBUTANOL	4.396	43	303561	1054.1285124 ppb	#	86
112)	t-Amyl Alcohol	4.463	59	27836	53.4633048 ppb		100
113)	TERT-AMYL METHYL ETHER	4.378	73	130346	10.2333008 ppb	#	97
115)	N-BUTANOL	4.797	56	386569	2144.2168048 ppb		98
116)	Methyl Cyclohexane	4.682	83	95003	12.1554806 ppb		98
117)	2-nitropropane	5.698	43	66960	50.5492752 ppb		99
118)	METHYL METHACRYLATE	5.071	41	221701	53.9029571 ppb	#	100
119)	1,4-DIOXANE	5.126	88	68814	1110.8674292 ppb	#	100
120)	n-octane	5.387	85	53737	12.4922089 ppb		99
121)	3,3-DIMETHYL-1-BUTANOL	6.263	57	60724	107.9937082 ppb		99
123)	ETHYL METHACRYLATE	5.862	69	351932	53.5482619 ppb		96
124)	CIS-1,4-DICHLORO-2-BUTENE	7.431	53	81062	53.9972944 ppb		98
125)	Cyclohexanone	7.693	55	98490	No Calib		
126)	PENTACHLOROETHANE	7.900	117	159689	50.9952321 ppb		99
127)	Hexachloroethane	8.575	117	37901	10.2772039 ppb		97

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\112414\
Data File : 1124 28.D
Acq On : 25 Nov 2014 1:29 am
Operator : 644
Sample : SSCV VMS 10a ppb 14I02844
Misc : water IS/SURR14I25028
ALS Vial : 28 Sample Multiplier: 1
InstName : VOCMS7

Quant Time: Nov 25 14:01:11 2014
Quant Method : C:\msdchem\1\methods\V807K24N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS07
QLast Update : Tue Nov 25 14:00:56 2014
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\112414\
Data File : 1124 03.D
Acq On : 24 Nov 2014 5:28 pm
Operator : 644
Sample : STD VMS .25 ppb 14K20062
Misc : water IS/SURR14I25028
ALS Vial : 3 Sample Multiplier: 1
InstName : VOCMS7

Quant Time: Nov 25 13:34:34 2014
Quant Method : C:\msdchem\1\methods\V807K24N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS07
QLast Update : Tue Nov 25 13:32:20 2014
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 8260-PENTAFLUOROBENZENE	4.353	168	421684	40.0000000 ppb	0.00
41) 8260-1,4-DIFLUOROBENZENE	4.681	114	754491	40.0000000 ppb	0.00
53) 8260-2-BROMO-1-CHLOROP...	5.850	79	124021	40.0000000 ppb	0.00
84) 8260-1,4-DICHLOROBENZE...	8.253	152	351835	40.0000000 ppb	0.00
96) AP9-PENTAFLUOROBENZENE	0.000	168	0m	40.0000000 ppb	-4.35
114) AP9-1,4-DIFLUOROBENZENE	0.000	114	0m	40.0000000 ppb	-4.68
122) AP9-2-BROMO-1-CHLOROPR...	0.000	79	0m	40.0000000 ppb	-5.85
128) AP9-1,4-DICHLOROBENZEN...	0.000	152	0m	40.0000000 ppb	-8.25
System Monitoring Compounds					
33) DIBROMOFLUOROMETHANE	4.110	111	215991	39.3464888 ppb	0.00
Spiked Amount 40.000	Range 78 - 121		Recovery = 98.37%		
46) a,a,a-Trifluorotoluene	5.053	146	415903	41.6981247 ppb	0.00
Spiked Amount 40.000	Range 85 - 114		Recovery = 104.25%		
50) TOLUENE-D8	5.515	98	926544	40.9074067 ppb	0.00
Spiked Amount 40.000	Range 89 - 111		Recovery = 102.27%		
68) 4-BROMOFLUOROBENZENE	7.401	95	354767	40.6029744 ppb	0.00
Spiked Amount 40.000	Range 71 - 126		Recovery = 101.51%		

Target Compounds						Qvalue
2) TPH (GC/MS) LOW FRACTION	4.406	TIC	-3592884m	Below Cal		
3) PROPENE	1.676	41	1614	1.2350676 ppb	#	52
4) DICHLORODIFLUOROMETHANE	1.713	85	1660	0.2903649 ppb	#	42
5) CHLOROMETHANE	1.895	50	1744	0.2424982 ppb	#	49
6) VINYL CHLORIDE	1.950	62	1216	0.1619147 ppb	#	1
7) 1,3-BUTADIENE	1.974	39	1469	0.2859467 ppb		94
8) BROMOMETHANE	2.205	94	1651	0.7998617 ppb	#	1
9) CHLOROETHANE	2.303	66	747	0.6708665 ppb	#	16
10) TRICHLOROFLUOROMETHANE	2.406	101	1319	0.1870262 ppb	#	73
11) DICHLOROFLUOROMETHANE	2.437	67	3140	0.3123148 ppb		91
12) ETHYL ETHER	2.607	59	982	0.2088244 ppb	#	36
13) ACROLEIN	2.966	56	2312	3.0086110 ppb	#	58
14) 1,1-DICHLOROETHENE	2.747	61	1661	0.2015804 ppb	#	57
15) 1,1,2-TRICHLOROTRIFLUO...	2.771	101	1095	0.2092097 ppb	#	64
16) ACETONE	3.124	43	3933	2.8314228 ppb		98
17) IODOMETHANE	2.856	142	5080	0.8386595 ppb	#	85
18) CARBON DISULFIDE	2.789	76	6501	0.3333262 ppb	#	89
19) METHYLENE CHLORIDE	3.106	84	2541	0.4282333 ppb	#	72
20) ACRYLONITRILE	3.586	53	2592	1.2756770 ppb		94
21) n-Hexane	3.240	56	3564	0.6288532 ppb	#	44
22) TRANS-1,2-DICHLOROETHENE	3.203	96	1930	0.3266140 ppb	#	70
23) METHYL TERT-BUTYL ETHER	3.252	73	3705	0.2384555 ppb	#	71
24) 1,1-DICHLOROETHANE	3.562	63	2299	0.2203008 ppb		89
25) VINYL ACETATE	3.672	43	11717	1.2934700 ppb		95
26) DI-ISOPROPYL ETHER	3.453	45	4802	0.2554497 ppb		92
27) 2,2-Dichloropropane	3.927	77	2068	0.2465040 ppb	#	89
28) CIS-1,2-DICHLOROETHENE	3.866	96	1833	0.2888754 ppb		84
29) 2-BUTANONE (MEK)	4.177	72	768	1.0570246 ppb	#	1
30) BROMOCHLOROMETHANE	3.982	130	695	0.2018735 ppb		95
31) TETRAHYDROFURAN	4.104	42	1820	1.0539956 ppb	#	33
32) CHLOROFORM	4.006	83	3174	0.3386364 ppb	#	89
34) 1,1,1-TRICHLOROETHANE	4.146	97	2661	0.3567755 ppb	#	74
35) CARBON TETRACHLORIDE	4.110	117	1364	0.2282605 ppb		97

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\112414\
Data File : 1124 03.D
Acq On : 24 Nov 2014 5:28 pm
Operator : 644
Sample : STD VMS .25 ppb 14K20062
Misc : water IS/SURR14I25028
ALS Vial : 3 Sample Multiplier: 1
InstName : VOCMS7

Quant Time: Nov 25 13:34:34 2014
Quant Method : C:\msdchem\1\methods\V807K24N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS07
QLast Update : Tue Nov 25 13:32:20 2014
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units		Dev(Min)
36) 1,1-Dichloropropene	4.207	75	1903	0.2350594 ppb		95
37) 2,2,4-TRIMETHYLPENTANE	4.250	57	6840	0.2749333 ppb		92
38) HEPTANE	4.292	43	3296	0.3342134 ppb	#	66
39) BENZENE	4.353	78	6326	0.2698199 ppb	#	6
40) 1,2-DICHLOROETHANE	4.462	62	1386	0.2219235 ppb	#	72
42) TRICHLOROETHENE	4.675	130	1343	0.2471658 ppb	#	67
43) 1,2-DICHLOROPROPANE	4.998	62	885	0.2069442 ppb	#	58
44) DIBROMOMETHANE	4.931	93	671	0.2129915 ppb	#	64
45) BROMODICHLOROMETHANE	5.016	83	3170	0.4592111 ppb	#	75
47) 2-CHLOROETHYL VINYL ETHER	0.000		0	N.D.		
48) CIS-1,3-DICHLOROPROPENE	5.393	75	2439	0.2555406 ppb	#	77
49) 4-METHYL-2-PENTANONE (...	5.764	58	2705	1.2393042 ppb	#	62
51) TOLUENE	5.545	91	9119	0.3839813 ppb		95
52) TRANS-1,3-DICHLOROPROPENE	0.000		0	N.D.		
54) 1,1,2-TRICHLOROETHANE	5.916	97	1802	0.3688788 ppb	#	56
55) TETRACHLOROETHENE	5.801	164	1104	0.2751090 ppb		88
56) 1,3-Dichloropropane	6.099	76	2551	0.3067581 ppb		99
57) 2-HEXANONE	6.312	58	2888	1.2815591 ppb	#	71
58) CHLORODIBROMOMETHANE	6.038	129	1089	0.2308548 ppb	#	86
59) 1,2-DIBROMOETHANE	6.221	107	1072	0.2198657 ppb		98
60) CHLOROBENZENE	6.555	112	3774	0.2473616 ppb	#	95
61) 1,1,1,2-TETRACHLOROETHANE	6.586	133	1017	0.2313941 ppb	#	99
62) ETHYLBENZENE	6.555	106	2278	0.2621423 ppb		81
63) M&P-XYLENE	6.646	106	6528	0.6217556 ppb		96
64) O-XYLENE	6.963	106	2771	0.2657295 ppb		92
65) STYRENE	6.993	104	4042	0.2411153 ppb		90
66) Bromoform	7.030	173	508	0.1774579 ppb	#	28
67) Isopropylbenzene	7.182	105	6681	0.2529048 ppb	#	89
69) Bromobenzene	7.492	77	3200	0.2918018 ppb	#	88
70) 1,1,2,2-TETRACHLOROETHANE	7.529	83	2233	0.3386796 ppb	#	82
71) 1,2,3-TRICHLOROPROPANE	0.000		0	N.D.		
72) TRANS-1,4-DICHLORO-2-B...	0.000		0	N.D.		
73) n-Propylbenzene	7.480	91	8314	0.2627043 ppb	#	98
74) 4-ETHYLTOLUENE	7.559	105	7615	0.2987202 ppb		94
75) 2-Chlorotoluene	7.614	126	1536	0.2723324 ppb		91
76) 4-Chlorotoluene	7.742	91	5547	0.2943523 ppb	#	88
77) 1,3,5-Trimethylbenzene	7.620	105	5802	0.2768139 ppb		89
78) tert-Butylbenzene	7.869	119	4250	0.2386965 ppb		100
79) 1,2,4-Trimethylbenzene	7.918	105	6738	0.3200969 ppb		94
80) sec-Butylbenzene	8.003	105	7364	0.2552932 ppb		98
81) 1,3-DICHLOROBENZENE	8.198	146	3016	0.2653572 ppb		88
82) p-Isopropyltoluene	8.107	119	5831	0.2564392 ppb	#	89
83) DICYCLOPENTADIENE	8.113	66	6329	0.2410964 ppb		97
85) 1,4-DICHLOROBENZENE	8.265	146	2854	0.2589895 ppb	#	1
86) 1,2,3-TRIMETHYLBENZENE	8.265	105	6420	0.3093580 ppb		94
87) 1,2-DICHLOROBENZENE	8.599	146	2705	0.2518175 ppb		95
88) n-Butylbenzene	8.441	91	5795	0.2574245 ppb	#	93
89) 1,2-Dibromo-3-chloropr...	0.000		0	N.D.		
90) 1,2,4-Trichlorobenzene	9.798	180	1585	0.2350715 ppb		84
91) HEXACHLORO-1,3-BUTADIENE	9.761	225	659	0.2050097 ppb	#	18
92) Naphthalene	10.072	128	5069	0.2665691 ppb	#	72
93) 1,2,3-Trichlorobenzene	10.224	180	1421	0.2426407 ppb	#	84
94) 1-Methylnaphthalene	10.887	142	2566	0.3096386 ppb		92
95) 2-Methylnaphthalene	11.008	142	1486	0.2203987 ppb	#	84

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\112414\
Data File : 1124 03.D
Acq On : 24 Nov 2014 5:28 pm
Operator : 644
Sample : STD VMS .25 ppb 14K20062
Misc : water IS/SURR14I25028
ALS Vial : 3 Sample Multiplier: 1
InstName : VOCMS7

Quant Time: Nov 25 13:34:34 2014
Quant Method : C:\msdchem\1\methods\V807K24N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS07
QLast Update : Tue Nov 25 13:32:20 2014
Response via : Initial Calibration

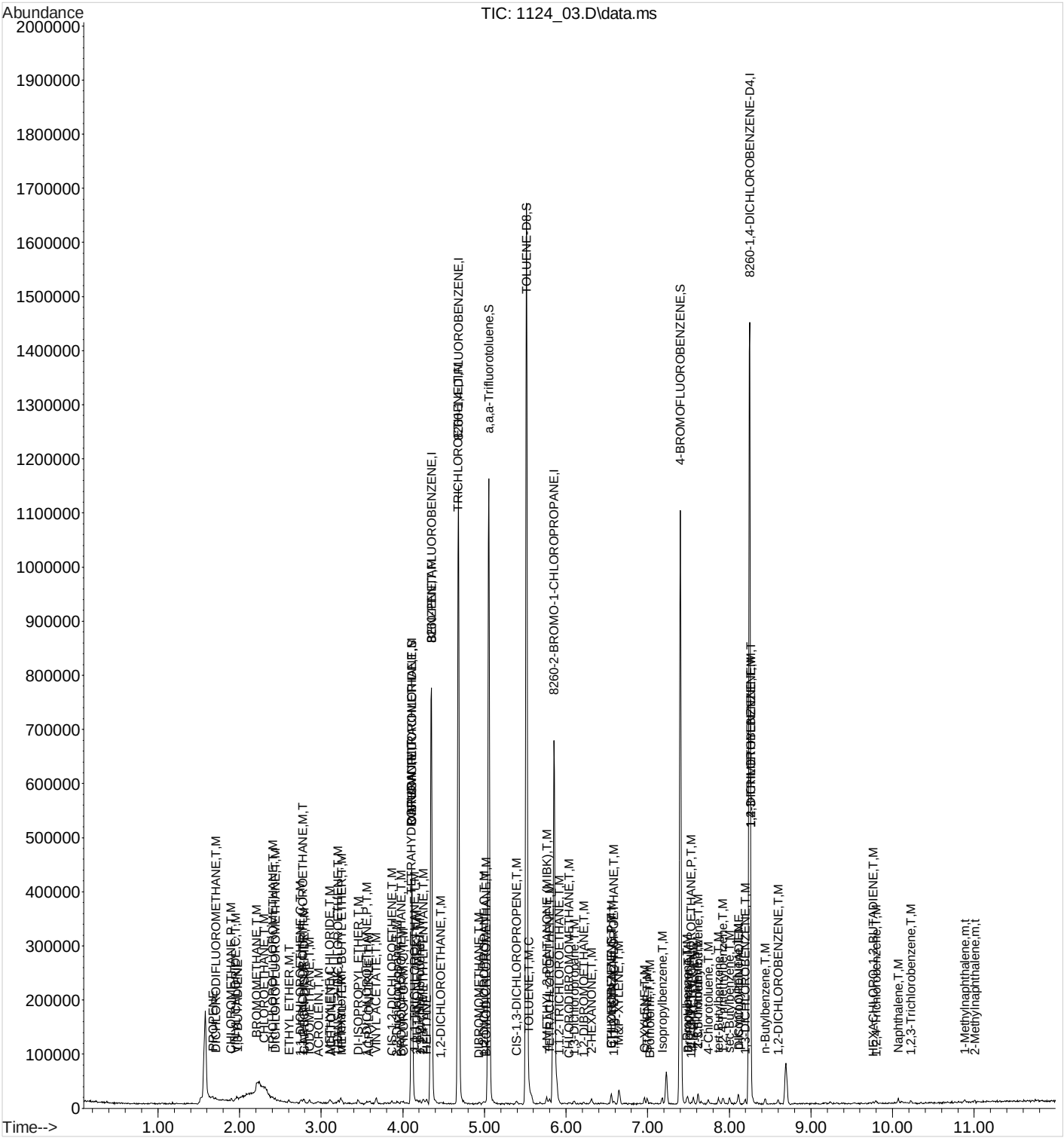
	Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
97)	ETHANOL	0.000		0	N.D.	
98)	Bromoethane	0.000		0	N.D.	
99)	2-PROPANOL	0.000		0	N.D.	d
100)	Methyl Acetate	0.000		0	N.D.	d
101)	ACETONITRILE	0.000		0	N.D.	d
102)	ALLYL CHLORIDE	0.000		0	N.D.	
103)	tert-BUTYL ALCOHOL	0.000		0	N.D.	
104)	chloroprene	0.000		0	N.D.	d
105)	ETHYL TERT-BUTYL ETHER	0.000		0	N.D.	
106)	PROPIONITRILE	0.000		0	N.D.	
107)	Ethyl Acetate	0.000		0	N.D.	d
108)	METHACRYLONITRILE	0.000		0	N.D.	d
109)	Cyclohexane	0.000		0	N.D.	
110)	tert-butyl formate	0.000		0	N.D.	
111)	ISOBUTANOL	0.000		0	N.D.	d
112)	t-Amyl Alcohol	0.000		0	N.D.	
113)	TERT-AMYL METHYL ETHER	0.000		0	N.D.	
115)	N-BUTANOL	0.000		0	N.D.	d
116)	Methyl Cyclohexane	0.000		0	N.D.	d
117)	2-nitropropane	0.000		0	N.D.	d
118)	METHYL METHACRYLATE	0.000		0	N.D.	d
119)	1,4-DIOXANE	0.000		0	N.D.	d
120)	n-octane	0.000		0	N.D.	
121)	3,3-DIMETHYL-1-BUTANOL	0.000		0	N.D.	d
123)	ETHYL METHACRYLATE	0.000		0	N.D.	d
124)	CIS-1,4-DICHLORO-2-BUTENE	0.000		0	N.D.	
125)	Cyclohexanone	0.000		0	N.D.	
126)	PENTACHLOROETHANE	0.000		0	N.D.	d
127)	Hexachloroethane	0.000		0	N.D.	

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\112414\
Data File : 1124 03.D
Acq On : 24 Nov 2014 5:28 pm
Operator : 644
Sample : STD VMS .25 ppb 14K20062
Misc : water IS/SURR14I25028
ALS Vial : 3 Sample Multiplier: 1
InstName : VOCMS7

Quant Time: Nov 25 13:34:34 2014
Quant Method : C:\msdchem\1\methods\V807K24N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS07
QLast Update : Tue Nov 25 13:32:20 2014
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\112414\
Data File : 1124 04.D
Acq On : 24 Nov 2014 5:47 pm
Operator : 644
Sample : STD VMS .5 ppb 14K20062
Misc : water IS/SURR14I25028
ALS Vial : 4 Sample Multiplier: 1
InstName : VOCMS7

Quant Time: Nov 25 13:35:33 2014
Quant Method : C:\msdchem\1\methods\V807K24N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS07
QLast Update : Tue Nov 25 13:32:20 2014
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 8260-PENTAFLUOROBENZENE	4.353	168	415246	40.0000000	ppb	0.00
41) 8260-1,4-DIFLUOROBENZENE	4.682	114	746119	40.0000000	ppb	0.00
53) 8260-2-BROMO-1-CHLOROP...	5.850	79	126028	40.0000000	ppb	0.00
84) 8260-1,4-DICHLOROBENZE...	8.253	152	350167	40.0000000	ppb	0.00
96) AP9-PENTAFLUOROBENZENE	0.000	168	0m	40.0000000	ppb	-4.35
114) AP9-1,4-DIFLUOROBENZENE	0.000	114	0m	40.0000000	ppb	-4.68
122) AP9-2-BROMO-1-CHLOROPR...	0.000	79	0m	40.0000000	ppb	-5.85
128) AP9-1,4-DICHLOROBENZEN...	0.000	152	0m	40.0000000	ppb	-8.25
System Monitoring Compounds						
33) DIBROMOFLUOROMETHANE	4.110	111	216166	39.9888928	ppb	0.00
Spiked Amount 40.000	Range 78 - 121		Recovery = 99.97%			
46) a,a,a-Trifluorotoluene	5.053	146	412957	41.8673301	ppb	0.00
Spiked Amount 40.000	Range 85 - 114		Recovery = 104.67%			
50) TOLUENE-D8	5.515	98	921383	41.1360000	ppb	0.00
Spiked Amount 40.000	Range 89 - 111		Recovery = 102.84%			
68) 4-BROMOFLUOROBENZENE	7.401	95	347887	39.1814964	ppb	0.00
Spiked Amount 40.000	Range 71 - 126		Recovery = 97.95%			
Target Compounds						Qvalue
2) TPH (GC/MS) LOW FRACTION	4.406	TIC	-3514436m	Below Cal		
3) PROPENE	1.658	41	1378	1.0708240	ppb #	49
4) DICHLORODIFLUOROMETHANE	1.707	85	3187	0.5661087	ppb #	81
5) CHLOROMETHANE	1.889	50	3562	0.5029648	ppb #	92
6) VINYL CHLORIDE	1.950	62	3604	0.4873254	ppb #	54
7) 1,3-BUTADIENE	1.968	39	4298	0.8495939	ppb #	68
8) BROMOMETHANE	2.212	94	3334	1.6402690	ppb #	82
9) CHLOROETHANE	2.309	66	1682	1.5339923	ppb #	22
10) TRICHLOROFLUOROMETHANE	2.406	101	3430	0.4938937	ppb #	89
11) DICHLOROFLUOROMETHANE	2.437	67	5115	0.5166426	ppb	100
12) ETHYL ETHER	2.607	59	2453	0.5297232	ppb #	71
13) ACROLEIN	2.960	56	3276	4.3291613	ppb	83
14) 1,1-DICHLOROETHENE	2.753	61	3912	0.4821245	ppb #	80
15) 1,1,2-TRICHLOROTRIFLUO...	2.765	101	2455	0.4763222	ppb #	81
16) ACETONE	3.124	43	6116	4.4712600	ppb	92
17) IODOMETHANE	2.857	142	12478	2.0919370	ppb	96
18) CARBON DISULFIDE	2.790	76	11954	0.6224209	ppb #	80
19) METHYLENE CHLORIDE	3.112	84	3742	0.6404146	ppb	98
20) ACRYLONITRILE	3.587	53	5320	2.6588817	ppb	98
21) n-Hexane	3.240	56	4324	0.7747810	ppb #	79
22) TRANS-1,2-DICHLOROETHENE	3.203	96	3468	0.5959890	ppb #	82
23) METHYL TERT-BUTYL ETHER	3.246	73	8243	0.5387485	ppb	85
24) 1,1-DICHLOROETHANE	3.562	63	5174	0.5034834	ppb #	85
25) VINYL ACETATE	3.672	43	25697	2.8807397	ppb	97
26) DI-ISOPROPYL ETHER	3.453	45	10470	0.5656028	ppb	99
27) 2,2-Dichloropropane	3.927	77	4210	0.5096091	ppb #	58
28) CIS-1,2-DICHLOROETHENE	3.866	96	3375	0.5401365	ppb	91
29) 2-BUTANONE (MEK)	4.171	72	2037	2.8470596	ppb	72
30) BROMOCHLOROMETHANE	3.988	130	1739	0.5129509	ppb	96
31) TETRAHYDROFURAN	4.110	42	2472	1.4537762	ppb #	87
32) CHLOROFORM	4.006	83	5926	0.6420518	ppb #	96
34) 1,1,1-TRICHLOROETHANE	4.146	97	4631	0.6305313	ppb #	85
35) CARBON TETRACHLORIDE	4.104	117	3087	0.5246078	ppb	93

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\112414\
Data File : 1124 04.D
Acq On : 24 Nov 2014 5:47 pm
Operator : 644
Sample : STD VMS .5 ppb 14K20062
Misc : water IS/SURR14I25028
ALS Vial : 4 Sample Multiplier: 1
InstName : VOCMS7

Quant Time: Nov 25 13:35:33 2014
Quant Method : C:\msdchem\1\methods\V807K24N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS07
QLast Update : Tue Nov 25 13:32:20 2014
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units		Dev(Min)
36) 1,1-Dichloropropene	4.207	75	3960	0.4967246 ppb	#	88
37) 2,2,4-TRIMETHYLPENTANE	4.250	57	13808	0.5636165 ppb		94
38) HEPTANE	4.286	43	5500	0.5663449 ppb	#	85
39) BENZENE	4.353	78	13000	0.5630796 ppb	#	54
40) 1,2-DICHLOROETHANE	4.469	62	2982	0.4848744 ppb	#	72
42) TRICHLOROETHENE	4.676	130	2825	0.5257470 ppb	#	91
43) 1,2-DICHLOROPROPANE	4.992	62	2189	0.5176089 ppb		93
44) DIBROMOMETHANE	4.937	93	1849	0.5935026 ppb		90
45) BROMODICHLOROMETHANE	5.010	83	3992	0.5847761 ppb	#	87
47) 2-CHLOROETHYL VINYL ETHER	0.000		0	N.D.		
48) CIS-1,3-DICHLOROPROPENE	5.399	75	4986	0.5282584 ppb	#	93
49) 4-METHYL-2-PENTANONE (...	5.764	58	6506	3.0141903 ppb		100
51) TOLUENE	5.552	91	17039	0.7255260 ppb		96
52) TRANS-1,3-DICHLOROPROPENE	5.801	110	1138	0.5511387 ppb	#	85
54) 1,1,2-TRICHLOROETHANE	5.910	97	3378	0.6804822 ppb	#	90
55) TETRACHLOROETHENE	5.801	164	2345	0.5750515 ppb		94
56) 1,3-Dichloropropane	6.099	76	4939	0.5844573 ppb		94
57) 2-HEXANONE	6.312	58	6353	2.7742685 ppb		94
58) CHLORODIBROMOMETHANE	6.032	129	2366	0.4935760 ppb	#	81
59) 1,2-DIBROMOETHANE	6.215	107	2577	0.5201221 ppb		96
60) CHLOROBENZENE	6.555	112	8621	0.5560531 ppb		94
61) 1,1,1,2-TETRACHLOROETHANE	6.586	133	2310	0.5172153 ppb	#	98
62) ETHYLBENZENE	6.555	106	4532	0.5132175 ppb		80
63) M&P-XYLENE	6.647	106	12788	1.1985892 ppb		99
64) O-XYLENE	6.957	106	5954	0.5618757 ppb		92
65) STYRENE	6.993	104	9315	0.5468138 ppb		90
66) Bromoform	7.036	173	1681	0.5778664 ppb	#	77
67) Isopropylbenzene	7.176	105	14436	0.5377626 ppb		98
69) Bromobenzene	7.492	77	6771	0.6076017 ppb		90
70) 1,1,2,2-TETRACHLOROETHANE	7.529	83	4341	0.6479154 ppb	#	92
71) 1,2,3-TRICHLOROPROPANE	7.644	110	990	0.6284753 ppb	#	6
72) TRANS-1,4-DICHLORO-2-B...	7.663	53	972	0.5664497 ppb	#	52
73) n-Propylbenzene	7.480	91	16871	0.5245975 ppb		97
74) 4-ETHYLTOLUENE	7.559	105	14437	0.5573139 ppb		100
75) 2-Chlorotoluene	7.614	126	3212	0.5604177 ppb		95
76) 4-Chlorotoluene	7.742	91	10785	0.5631935 ppb		98
77) 1,3,5-Trimethylbenzene	7.620	105	12160	0.5709157 ppb		100
78) tert-Butylbenzene	7.869	119	9211	0.5090871 ppb		93
79) 1,2,4-Trimethylbenzene	7.918	105	12822	0.5994244 ppb		97
80) sec-Butylbenzene	8.003	105	15979	0.5451340 ppb		96
81) 1,3-DICHLOROBENZENE	8.198	146	6068	0.5253797 ppb		100
82) p-Isopropyltoluene	8.107	119	12637	0.5469072 ppb		98
83) DICYCLOPENTADIENE	8.113	66	13975	0.5238846 ppb	#	93
85) 1,4-DICHLOROBENZENE	8.265	146	5749	0.5241846 ppb	#	1
86) 1,2,3-TRIMETHYLBENZENE	8.265	105	11931	0.5776529 ppb		97
87) 1,2-DICHLOROBENZENE	8.599	146	5708	0.5339081 ppb		97
88) n-Butylbenzene	8.441	91	12505	0.5581411 ppb		98
89) 1,2-Dibromo-3-chloropr...	9.238	157	542	0.4143730 ppb	#	28
90) 1,2,4-Trichlorobenzene	9.798	180	3921	0.5842939 ppb		97
91) HEXACHLORO-1,3-BUTADIENE	9.761	225	1864	0.5826379 ppb	#	80
92) Naphthalene	10.072	128	10489	0.5542242 ppb		97
93) 1,2,3-Trichlorobenzene	10.224	180	3400	0.5833272 ppb		92
94) 1-Methylnaphthalene	10.881	142	4686	0.5681519 ppb		96
95) 2-Methylnaphthalene	11.002	142	3616	0.5388680 ppb		94

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\112414\
Data File : 1124 04.D
Acq On : 24 Nov 2014 5:47 pm
Operator : 644
Sample : STD VMS .5 ppb 14K20062
Misc : water IS/SURR14I25028
ALS Vial : 4 Sample Multiplier: 1
InstName : VOCMS7

Quant Time: Nov 25 13:35:33 2014
Quant Method : C:\msdchem\1\methods\V807K24N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS07
QLast Update : Tue Nov 25 13:32:20 2014
Response via : Initial Calibration

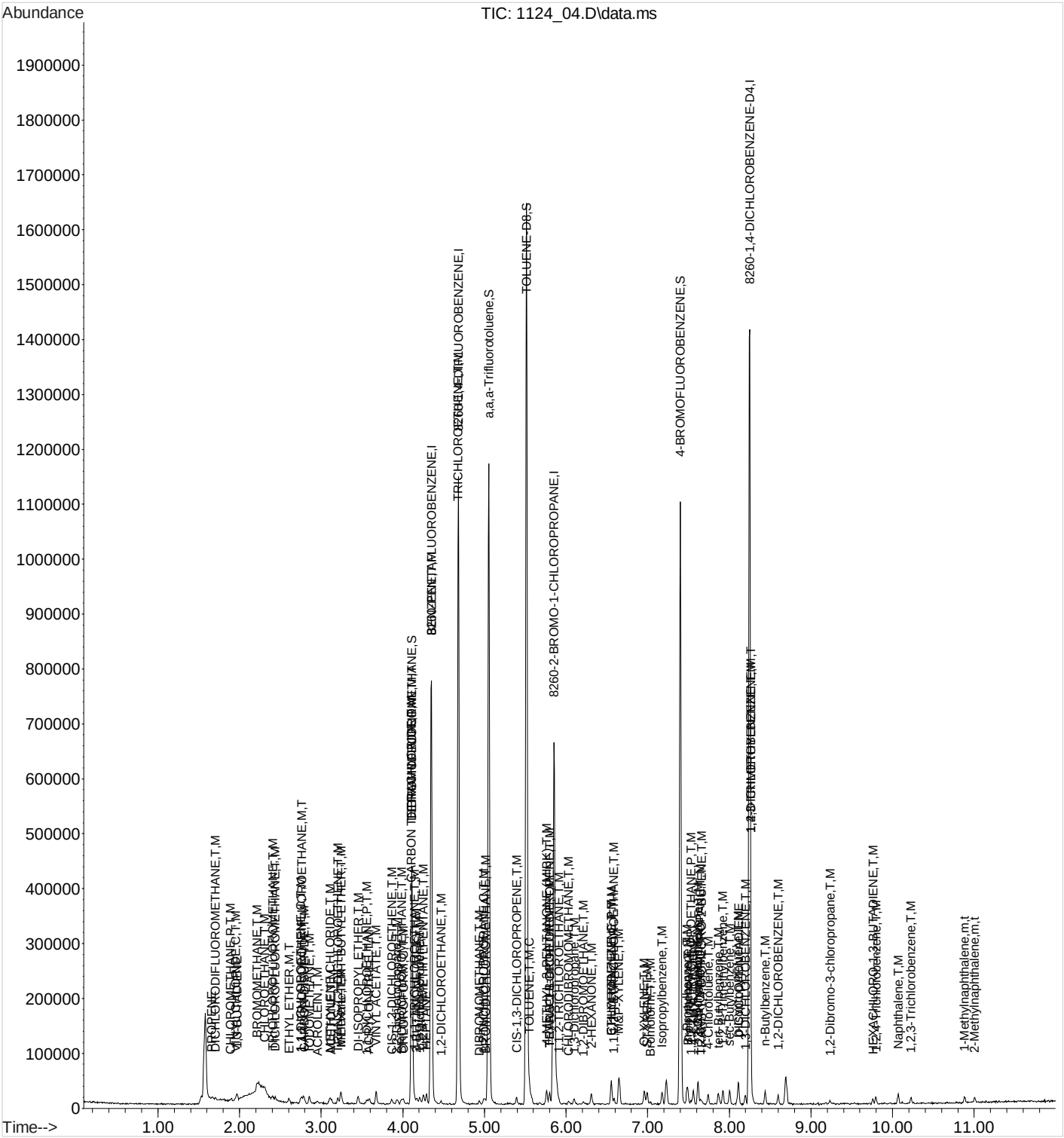
	Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
97)	ETHANOL	0.000		0	N.D.	d
98)	Bromoethane	0.000		0	N.D.	
99)	2-PROPANOL	0.000		0	N.D.	d
100)	Methyl Acetate	0.000		0	N.D.	d
101)	ACETONITRILE	0.000		0	N.D.	d
102)	ALLYL CHLORIDE	0.000		0	N.D.	
103)	tert-BUTYL ALCOHOL	0.000		0	N.D.	
104)	chloroprene	0.000		0	N.D.	d
105)	ETHYL TERT-BUTYL ETHER	0.000		0	N.D.	
106)	PROPIONITRILE	0.000		0	N.D.	
107)	Ethyl Acetate	0.000		0	N.D.	d
108)	METHACRYLONITRILE	0.000		0	N.D.	d
109)	Cyclohexane	0.000		0	N.D.	
110)	tert-butyl formate	0.000		0	N.D.	
111)	ISOBUTANOL	0.000		0	N.D.	d
112)	t-Amyl Alcohol	0.000		0	N.D.	
113)	TERT-AMYL METHYL ETHER	0.000		0	N.D.	
115)	N-BUTANOL	0.000		0	N.D.	d
116)	Methyl Cyclohexane	0.000		0	N.D.	d
117)	2-nitropropane	0.000		0	N.D.	d
118)	METHYL METHACRYLATE	0.000		0	N.D.	d
119)	1,4-DIOXANE	0.000		0	N.D.	d
120)	n-octane	0.000		0	N.D.	
121)	3,3-DIMETHYL-1-BUTANOL	0.000		0	N.D.	d
123)	ETHYL METHACRYLATE	0.000		0	N.D.	d
124)	CIS-1,4-DICHLORO-2-BUTENE	0.000		0	N.D.	
125)	Cyclohexanone	0.000		0	N.D.	
126)	PENTACHLOROETHANE	0.000		0	N.D.	d
127)	Hexachloroethane	0.000		0	N.D.	

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\112414\
Data File : 1124 04.D
Acq On : 24 Nov 2014 5:47 pm
Operator : 644
Sample : STD VMS .5 ppb 14K20062
Misc : water IS/SURR14I25028
ALS Vial : 4 Sample Multiplier: 1
InstName : VOCMS7

Quant Time: Nov 25 13:35:33 2014
Quant Method : C:\msdchem\1\methods\V807K24N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS07
QLast Update : Tue Nov 25 13:32:20 2014
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\112414\
Data File : 1124 05.D
Acq On : 24 Nov 2014 6:06 pm
Operator : 644
Sample : STD VMS 1 ppb 14K20062
Misc : water IS/SURR14I25028
ALS Vial : 5 Sample Multiplier: 1
InstName : VOCMS7

Quant Time: Nov 25 13:36:34 2014
Quant Method : C:\msdchem\1\methods\V807K24N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS07
QLast Update : Tue Nov 25 13:32:20 2014
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 8260-PENTAFLUOROBENZENE	4.353	168	408155	40.0000000	ppb	0.00
41) 8260-1,4-DIFLUOROBENZENE	4.682	114	739064	40.0000000	ppb	0.00
53) 8260-2-BROMO-1-CHLOROP...	5.850	79	124317	40.0000000	ppb	0.00
84) 8260-1,4-DICHLOROBENZE...	8.253	152	344898	40.0000000	ppb	0.00
96) AP9-PENTAFLUOROBENZENE	0.000	168	0m	40.0000000	ppb	-4.35
114) AP9-1,4-DIFLUOROBENZENE	0.000	114	0m	40.0000000	ppb	-4.68
122) AP9-2-BROMO-1-CHLOROPR...	0.000	79	0m	40.0000000	ppb	-5.85
128) AP9-1,4-DICHLOROBENZEN...	0.000	152	0m	40.0000000	ppb	-8.25
System Monitoring Compounds						
33) DIBROMOFLUOROMETHANE	4.110	111	218148	41.0566552	ppb	0.00
Spiked Amount 40.000	Range 78 - 121		Recovery = 102.64%			
46) a,a,a-Trifluorotoluene	5.053	146	413612	42.3340303	ppb	0.00
Spiked Amount 40.000	Range 85 - 114		Recovery = 105.84%			
50) TOLUENE-D8	5.515	98	925758	41.7258689	ppb	0.00
Spiked Amount 40.000	Range 89 - 111		Recovery = 104.31%			
68) 4-BROMOFLUOROBENZENE	7.401	95	356501	40.7042815	ppb	0.00
Spiked Amount 40.000	Range 71 - 126		Recovery = 101.76%			
Target Compounds						Qvalue
2) TPH (GC/MS) LOW FRACTION	4.406	TIC	-3370515m	Below Cal		
3) PROPENE	1.664	41	1806	1.4277986	ppb #	28
4) DICHLORODIFLUOROMETHANE	1.707	85	6434	1.1627307	ppb #	86
5) CHLOROMETHANE	1.889	50	7712	1.1078758	ppb	99
6) VINYL CHLORIDE	1.950	62	6900	0.9492131	ppb	91
7) 1,3-BUTADIENE	1.968	39	6282	1.2633487	ppb #	73
8) BROMOMETHANE	2.206	94	3973	1.9886043	ppb #	85
9) CHLOROETHANE	2.303	66	2148	1.9930206	ppb #	51
10) TRICHLOROFLUOROMETHANE	2.406	101	6684	0.9791656	ppb #	85
11) DICHLOROFLUOROMETHANE	2.437	67	9323	0.9580333	ppb #	81
12) ETHYL ETHER	2.607	59	4476	0.9833811	ppb #	84
13) ACROLEIN	2.960	56	4945	6.6482372	ppb	83
14) 1,1-DICHLOROETHENE	2.747	61	7838	0.9827565	ppb #	86
15) 1,1,2-TRICHLOROTRIFLUO...	2.765	101	4956	0.9782749	ppb #	87
16) ACETONE	3.130	43	9188	6.8338237	ppb	97
17) IODOMETHANE	2.856	142	24352	4.1535419	ppb	99
18) CARBON DISULFIDE	2.790	76	20877	1.1059089	ppb #	94
19) METHYLENE CHLORIDE	3.106	84	6902	1.2017462	ppb	91
20) ACRYLONITRILE	3.587	53	11069	5.6282853	ppb	93
21) n-Hexane	3.234	56	7404	1.3497086	ppb #	85
22) TRANS-1,2-DICHLOROETHENE	3.203	96	5862	1.0249089	ppb	96
23) METHYL TERT-BUTYL ETHER	3.252	73	15711	1.0446839	ppb	92
24) 1,1-DICHLOROETHANE	3.562	63	10300	1.0197091	ppb	99
25) VINYL ACETATE	3.672	43	48482	5.5294567	ppb	99
26) DI-ISOPROPYL ETHER	3.453	45	20293	1.1152994	ppb	95
27) 2,2-Dichloropropane	3.933	77	9107	1.1215296	ppb #	88
28) CIS-1,2-DICHLOROETHENE	3.866	96	6542	1.0651742	ppb	96
29) 2-BUTANONE (MEK)	4.171	72	4306	6.1229385	ppb	86
30) BROMOCHLOROMETHANE	3.982	130	3370	1.0113149	ppb	93
31) TETRAHYDROFURAN	4.110	42	3388	2.0270890	ppb	88
32) CHLOROFORM	4.006	83	10653	1.1742503	ppb	99
34) 1,1,1-TRICHLOROETHANE	4.146	97	8250	1.1427892	ppb	92
35) CARBON TETRACHLORIDE	4.110	117	5841	1.0098705	ppb	99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\112414\
Data File : 1124 05.D
Acq On : 24 Nov 2014 6:06 pm
Operator : 644
Sample : STD VMS 1 ppb 14K20062
Misc : water IS/SURR14I25028
ALS Vial : 5 Sample Multiplier: 1
InstName : VOCMS7

Quant Time: Nov 25 13:36:34 2014
Quant Method : C:\msdchem\1\methods\V807K24N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS07
QLast Update : Tue Nov 25 13:32:20 2014
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units		Dev(Min)
36) 1,1-Dichloropropene	4.207	75	7931	1.0121126 ppb		94
37) 2,2,4-TRIMETHYLPENTANE	4.250	57	26462	1.0988943 ppb		97
38) HEPTANE	4.286	43	11188	1.1720634 ppb		96
39) BENZENE	4.353	78	25085	1.1054037 ppb	#	80
40) 1,2-DICHLOROETHANE	4.463	62	6187	1.0234864 ppb	#	78
42) TRICHLOROETHENE	4.675	130	5424	1.0190701 ppb	#	88
43) 1,2-DICHLOROPROPANE	4.998	62	4698	1.1214891 ppb		89
44) DIBROMOMETHANE	4.937	93	3143	1.0184885 ppb		96
45) BROMODICHLOROMETHANE	5.010	83	8728	1.2907433 ppb		91
47) 2-CHLOROETHYL VINYL ETHER	0.000		0	N.D.		
48) CIS-1,3-DICHLOROPROPENE	5.393	75	9472	1.0131224 ppb	#	94
49) 4-METHYL-2-PENTANONE (...	5.764	58	11449	5.3548857 ppb		83
51) TOLUENE	5.552	91	27609	1.1868220 ppb		100
52) TRANS-1,3-DICHLOROPROPENE	5.801	110	2217	1.0839529 ppb	#	81
54) 1,1,2-TRICHLOROETHANE	5.904	97	5603	1.1442325 ppb		97
55) TETRACHLOROETHENE	5.801	164	3913	0.9727703 ppb		97
56) 1,3-Dichloropropane	6.099	76	9122	1.0943099 ppb		94
57) 2-HEXANONE	6.312	58	12522	5.5434464 ppb		97
58) CHLORODIBROMOMETHANE	6.038	129	4671	0.9878378 ppb		99
59) 1,2-DIBROMOETHANE	6.215	107	5136	1.0508782 ppb		98
60) CHLOROBENZENE	6.555	112	16207	1.0597362 ppb		92
61) 1,1,1,2-TETRACHLOROETHANE	6.592	133	4694	1.0654646 ppb	#	93
62) ETHYLBENZENE	6.555	106	8839	1.0147317 ppb		91
63) M&P-XYLENE	6.647	106	22772	2.1637417 ppb		92
64) O-XYLENE	6.963	106	11151	1.0667969 ppb		96
65) STYRENE	6.993	104	17947	1.0680339 ppb		97
66) Bromoform	7.030	173	2665	0.9287386 ppb		94
67) Isopropylbenzene	7.176	105	28103	1.0612873 ppb		95
69) Bromobenzene	7.486	77	11558	1.0514421 ppb		97
70) 1,1,2,2-TETRACHLOROETHANE	7.529	83	7997	1.2100189 ppb	#	96
71) 1,2,3-TRICHLOROPROPANE	7.650	110	1951	1.2555871 ppb	#	72
72) TRANS-1,4-DICHLORO-2-B...	7.663	53	1682	0.9937052 ppb		88
73) n-Propylbenzene	7.480	91	33147	1.0448794 ppb		98
74) 4-ETHYLTOLUENE	7.559	105	27363	1.0708365 ppb		98
75) 2-Chlorotoluene	7.614	126	6486	1.1472280 ppb		99
76) 4-Chlorotoluene	7.742	91	20141	1.0662402 ppb		99
77) 1,3,5-Trimethylbenzene	7.620	105	22306	1.0616873 ppb		97
78) tert-Butylbenzene	7.869	119	19158	1.0734257 ppb		96
79) 1,2,4-Trimethylbenzene	7.918	105	23606	1.1187616 ppb		97
80) sec-Butylbenzene	8.003	105	29812	1.0310538 ppb		98
81) 1,3-DICHLOROBENZENE	8.198	146	12141	1.0656600 ppb		98
82) p-Isopropyltoluene	8.107	119	24820	1.0889500 ppb		99
83) DICYCLOPENTADIENE	8.113	66	27259	1.0359296 ppb		98
85) 1,4-DICHLOROBENZENE	8.265	146	11590	1.0729018 ppb	#	1
86) 1,2,3-TRIMETHYLBENZENE	8.265	105	22713	1.1164754 ppb		100
87) 1,2-DICHLOROBENZENE	8.599	146	11122	1.0562093 ppb		98
88) n-Butylbenzene	8.441	91	23614	1.0700754 ppb		99
89) 1,2-Dibromo-3-chloropr...	9.244	157	1150	0.8926363 ppb		84
90) 1,2,4-Trichlorobenzene	9.798	180	6873	1.0398373 ppb		98
91) HEXACHLORO-1,3-BUTADIENE	9.755	225	3459	1.0977108 ppb		94
92) Naphthalene	10.072	128	19810	1.0627238 ppb		100
93) 1,2,3-Trichlorobenzene	10.230	180	6597	1.1491172 ppb		97
94) 1-Methylnaphthalene	10.881	142	8500	1.0463228 ppb		97
95) 2-Methylnaphthalene	11.002	142	6896	1.0433639 ppb		96

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\112414\
Data File : 1124 05.D
Acq On : 24 Nov 2014 6:06 pm
Operator : 644
Sample : STD VMS 1 ppb 14K20062
Misc : water IS/SURR14I25028
ALS Vial : 5 Sample Multiplier: 1
InstName : VOCMS7

Quant Time: Nov 25 13:36:34 2014
Quant Method : C:\msdchem\1\methods\V807K24N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS07
QLast Update : Tue Nov 25 13:32:20 2014
Response via : Initial Calibration

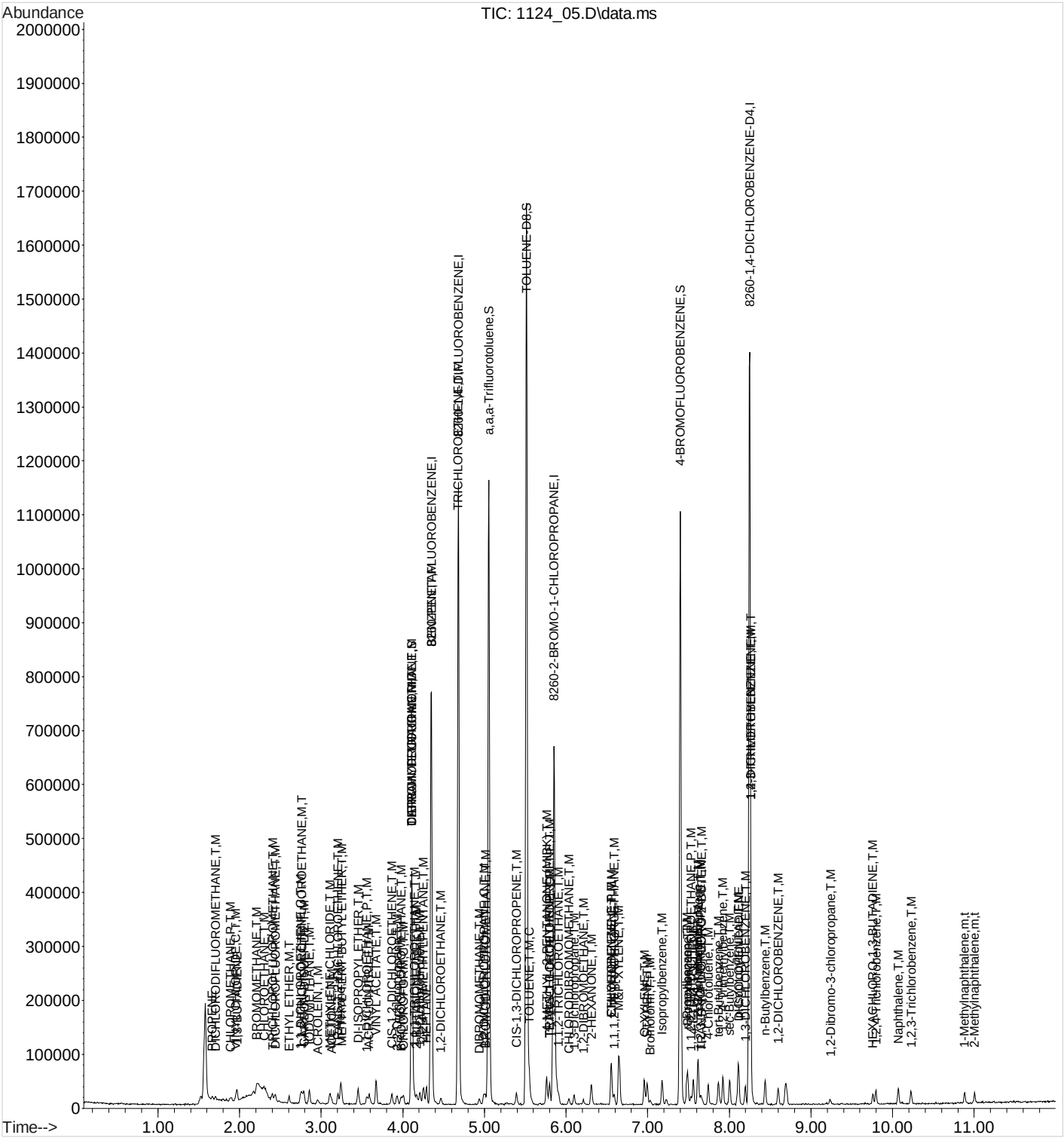
	Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
97)	ETHANOL	0.000		0	N.D.	d
98)	Bromoethane	0.000		0	N.D.	
99)	2-PROPANOL	0.000		0	N.D.	d
100)	Methyl Acetate	0.000		0	N.D.	d
101)	ACETONITRILE	0.000		0	N.D.	d
102)	ALLYL CHLORIDE	0.000		0	N.D.	
103)	tert-BUTYL ALCOHOL	0.000		0	N.D.	
104)	chloroprene	0.000		0	N.D.	d
105)	ETHYL TERT-BUTYL ETHER	0.000		0	N.D.	
106)	PROPIONITRILE	0.000		0	N.D.	
107)	Ethyl Acetate	0.000		0	N.D.	d
108)	METHACRYLONITRILE	0.000		0	N.D.	d
109)	Cyclohexane	0.000		0	N.D.	d
110)	tert-butyl formate	0.000		0	N.D.	
111)	ISOBUTANOL	0.000		0	N.D.	
112)	t-Amyl Alcohol	0.000		0	N.D.	
113)	TERT-AMYL METHYL ETHER	0.000		0	N.D.	d
115)	N-BUTANOL	0.000		0	N.D.	d
116)	Methyl Cyclohexane	0.000		0	N.D.	d
117)	2-nitropropane	0.000		0	N.D.	d
118)	METHYL METHACRYLATE	0.000		0	N.D.	
119)	1,4-DIOXANE	0.000		0	N.D.	d
120)	n-octane	0.000		0	N.D.	d
121)	3,3-DIMETHYL-1-BUTANOL	0.000		0	N.D.	d
123)	ETHYL METHACRYLATE	0.000		0	N.D.	d
124)	CIS-1,4-DICHLORO-2-BUTENE	0.000		0	N.D.	
125)	Cyclohexanone	0.000		0	N.D.	d
126)	PENTACHLOROETHANE	0.000		0	N.D.	d
127)	Hexachloroethane	0.000		0	N.D.	

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\112414\
Data File : 1124 05.D
Acq On : 24 Nov 2014 6:06 pm
Operator : 644
Sample : STD VMS 1 ppb 14K20062
Misc : water IS/SURR14I25028
ALS Vial : 5 Sample Multiplier: 1
InstName : VOCMS7

Quant Time: Nov 25 13:36:34 2014
Quant Method : C:\msdchem\1\methods\V807K24N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS07
QLast Update : Tue Nov 25 13:32:20 2014
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\112414\
Data File : 1124 06.D
Acq On : 24 Nov 2014 6:26 pm
Operator : 644
Sample : STD VMS 2 ppb 14K20062
Misc : water IS/SURR14I25028
ALS Vial : 6 Sample Multiplier: 1
InstName : VOCMS7

Quant Time: Nov 25 13:38:08 2014
Quant Method : C:\msdchem\1\methods\V807K24N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS07
QLast Update : Tue Nov 25 13:32:20 2014
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 8260-PENTAFLUOROBENZENE	4.353	168	404692	40.0000000	ppb	0.00
41) 8260-1,4-DIFLUOROBENZENE	4.681	114	733797	40.0000000	ppb	0.00
53) 8260-2-BROMO-1-CHLOROP...	5.850	79	124247	40.0000000	ppb	0.00
84) 8260-1,4-DICHLOROBENZE...	8.253	152	345895	40.0000000	ppb	0.00
96) AP9-PENTAFLUOROBENZENE	0.000	168	0m	40.0000000	ppb	-4.35
114) AP9-1,4-DIFLUOROBENZENE	0.000	114	0m	40.0000000	ppb	-4.68
122) AP9-2-BROMO-1-CHLOROPR...	0.000	79	0m	40.0000000	ppb	-5.85
128) AP9-1,4-DICHLOROBENZEN...	0.000	152	0m	40.0000000	ppb	-8.25
System Monitoring Compounds						
33) DIBROMOFLUOROMETHANE	4.110	111	220067	41.7722390	ppb	0.00
Spiked Amount 40.000	Range 78 - 121		Recovery = 104.43%			
46) a,a,a-Trifluorotoluene	5.053	146	416511	42.9367410	ppb	0.00
Spiked Amount 40.000	Range 85 - 114		Recovery = 107.34%			
50) TOLUENE-D8	5.515	98	942245	42.7738039	ppb	0.00
Spiked Amount 40.000	Range 89 - 111		Recovery = 106.93%			
68) 4-BROMOFLUOROBENZENE	7.401	95	356970	40.7807933	ppb	0.00
Spiked Amount 40.000	Range 71 - 126		Recovery = 101.95%			
Target Compounds						Qvalue
2) TPH (GC/MS) LOW FRACTION	4.406	TIC	-2954635m	Below Cal		
3) PROPENE	1.670	41	3477	2.7723905	ppb #	82
4) DICHLORODIFLUOROMETHANE	1.707	85	11822	2.1547136	ppb	97
5) CHLOROMETHANE	1.889	50	13998	2.0281054	ppb	99
6) VINYL CHLORIDE	1.956	62	14575	2.0221981	ppb	91
7) 1,3-BUTADIENE	1.968	39	10413	2.1120377	ppb	98
8) BROMOMETHANE	2.205	94	5412	2.7320466	ppb	98
9) CHLOROETHANE	2.297	66	3140	2.9383780	ppb #	68
10) TRICHLOROFLUOROMETHANE	2.406	101	13438	1.9854311	ppb #	94
11) DICHLOROFLUOROMETHANE	2.437	67	19587	2.0299875	ppb	98
12) ETHYL ETHER	2.607	59	9263	2.0525036	ppb	91
13) ACROLEIN	2.960	56	8604	11.6665142	ppb	99
14) 1,1-DICHLOROETHENE	2.753	61	15687	1.9837231	ppb	94
15) 1,1,2-TRICHLOROTRIFLUO...	2.765	101	9806	1.9521897	ppb	98
16) ACETONE	3.124	43	17120	12.8424253	ppb	100
17) IODOMETHANE	2.856	142	48881	8.4086165	ppb	99
18) CARBON DISULFIDE	2.789	76	39511	2.1109103	ppb	97
19) METHYLENE CHLORIDE	3.106	84	12805	2.2486294	ppb	95
20) ACRYLONITRILE	3.586	53	22074	11.3200738	ppb	97
21) n-Hexane	3.240	56	12766	2.3470857	ppb	91
22) TRANS-1,2-DICHLOROETHENE	3.203	96	11687	2.0608340	ppb	99
23) METHYL TERT-BUTYL ETHER	3.246	73	32531	2.1816195	ppb	99
24) 1,1-DICHLOROETHANE	3.562	63	20128	2.0097415	ppb	96
25) VINYL ACETATE	3.672	43	94089	10.8228412	ppb	100
26) DI-ISOPROPYL ETHER	3.453	45	37829	2.0968655	ppb	99
27) 2,2-Dichloropropane	3.927	77	16724	2.0771892	ppb	94
28) CIS-1,2-DICHLOROETHENE	3.866	96	12808	2.1032549	ppb	96
29) 2-BUTANONE (MEK)	4.170	72	7829	11.2277482	ppb	92
30) BROMOCHLOROMETHANE	3.982	130	6720	2.0338845	ppb	100
31) TETRAHYDROFURAN	4.104	42	5420	3.2706133	ppb #	93
32) CHLOROFORM	4.006	83	19125	2.1261344	ppb	100
34) 1,1,1-TRICHLOROETHANE	4.146	97	15076	2.1061961	ppb	93
35) CARBON TETRACHLORIDE	4.104	117	11759	2.0504509	ppb	94

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\112414\
Data File : 1124 06.D
Acq On : 24 Nov 2014 6:26 pm
Operator : 644
Sample : STD VMS 2 ppb 14K20062
Misc : water IS/SURR14I25028
ALS Vial : 6 Sample Multiplier: 1
InstName : VOCMS7

Quant Time: Nov 25 13:38:08 2014
Quant Method : C:\msdchem\1\methods\V807K24N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS07
QLast Update : Tue Nov 25 13:32:20 2014
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units		Dev(Min)
36) 1,1-Dichloropropene	4.207	75	16175	2.0818319 ppb		99
37) 2,2,4-TRIMETHYLPENTANE	4.250	57	51839	2.1711527 ppb		99
38) HEPTANE	4.292	43	19489	2.0591534 ppb		94
39) BENZENE	4.353	78	48229	2.1434609 ppb	#	89
40) 1,2-DICHLOROETHANE	4.469	62	12444	2.0761679 ppb	#	87
42) TRICHLOROETHENE	4.681	130	11212	2.1216492 ppb		99
43) 1,2-DICHLOROPROPANE	4.998	62	9202	2.2124343 ppb		92
44) DIBROMOMETHANE	4.937	93	6288	2.0522507 ppb		98
45) BROMODICHLOROMETHANE	5.016	83	15630	2.3280389 ppb	#	91
47) 2-CHLOROETHYL VINYL ETHER	0.000		0	N.D.		
48) CIS-1,3-DICHLOROPROPENE	5.393	75	19598	2.1112423 ppb	#	98
49) 4-METHYL-2-PENTANONE (...	5.764	58	23602	11.1182792 ppb		89
51) TOLUENE	5.551	91	51510	2.2301423 ppb		100
52) TRANS-1,3-DICHLOROPROPENE	5.795	110	4012	1.9756580 ppb	#	75
54) 1,1,2-TRICHLOROETHANE	5.910	97	10726	2.1916746 ppb		94
55) TETRACHLOROETHENE	5.801	164	8256	2.0535947 ppb		96
56) 1,3-Dichloropropane	6.099	76	17265	2.0723421 ppb		98
57) 2-HEXANONE	6.306	58	25805	11.4302210 ppb		99
58) CHLORODIBROMOMETHANE	6.038	129	9444	1.9983722 ppb		95
59) 1,2-DIBROMOETHANE	6.215	107	10362	2.1213659 ppb		98
60) CHLOROBENZENE	6.555	112	31825	2.0821314 ppb		99
61) 1,1,1,2-TETRACHLOROETHANE	6.586	133	9035	2.0519592 ppb	#	98
62) ETHYLBENZENE	6.555	106	17564	2.0175121 ppb		95
63) M&P-XYLENE	6.646	106	44145	4.1969169 ppb		96
64) O-XYLENE	6.963	106	21629	2.0703749 ppb		98
65) STYRENE	6.993	104	33624	2.0021064 ppb		97
66) Bromoform	7.036	173	6209	2.1650231 ppb		94
67) Isopropylbenzene	7.176	105	53924	2.0375439 ppb		99
69) Bromobenzene	7.492	77	23135	2.1057985 ppb		98
70) 1,1,2,2-TETRACHLOROETHANE	7.529	83	15523	2.3500945 ppb		95
71) 1,2,3-TRICHLOROPROPANE	7.650	110	3277	2.1101368 ppb	#	63
72) TRANS-1,4-DICHLORO-2-B...	7.662	53	3747	2.2149293 ppb		96
73) n-Propylbenzene	7.480	91	64641	2.0387999 ppb		99
74) 4-ETHYLTOLUENE	7.559	105	54019	2.1151960 ppb		98
75) 2-Chlorotoluene	7.620	126	12379	2.1908012 ppb		93
76) 4-Chlorotoluene	7.742	91	38988	2.0651405 ppb		98
77) 1,3,5-Trimethylbenzene	7.620	105	44984	2.1422868 ppb		98
78) tert-Butylbenzene	7.869	119	36840	2.0653138 ppb		99
79) 1,2,4-Trimethylbenzene	7.918	105	45587	2.1617267 ppb		99
80) sec-Butylbenzene	8.009	105	60868	2.1063177 ppb		99
81) 1,3-DICHLOROBENZENE	8.198	146	23198	2.0373206 ppb		100
82) p-Isopropyltoluene	8.107	119	47983	2.1063870 ppb		98
83) DICYCLOPENTADIENE	8.113	66	55735	2.1193025 ppb		99
85) 1,4-DICHLOROBENZENE	8.265	146	22631	2.0889434 ppb	#	1
86) 1,2,3-TRIMETHYLBENZENE	8.265	105	44276	2.1701484 ppb		100
87) 1,2-DICHLOROBENZENE	8.599	146	21481	2.0340797 ppb		97
88) n-Butylbenzene	8.441	91	46049	2.0807094 ppb		99
89) 1,2-Dibromo-3-chloropr...	9.238	157	2561	1.9821325 ppb		92
90) 1,2,4-Trichlorobenzene	9.798	180	14058	2.1207475 ppb		98
91) HEXACHLORO-1,3-BUTADIENE	9.755	225	6266	1.9827783 ppb		97
92) Naphthalene	10.072	128	39859	2.1321056 ppb		98
93) 1,2,3-Trichlorobenzene	10.224	180	12141	2.1087190 ppb		99
94) 1-Methylnaphthalene	10.887	142	17590	2.1590315 ppb		93
95) 2-Methylnaphthalene	11.002	142	14193	2.1412094 ppb		99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\112414\
Data File : 1124 06.D
Acq On : 24 Nov 2014 6:26 pm
Operator : 644
Sample : STD VMS 2 ppb 14K20062
Misc : water IS/SURR14I25028
ALS Vial : 6 Sample Multiplier: 1
InstName : VOCMS7

Quant Time: Nov 25 13:38:08 2014
Quant Method : C:\msdchem\1\methods\V807K24N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS07
QLast Update : Tue Nov 25 13:32:20 2014
Response via : Initial Calibration

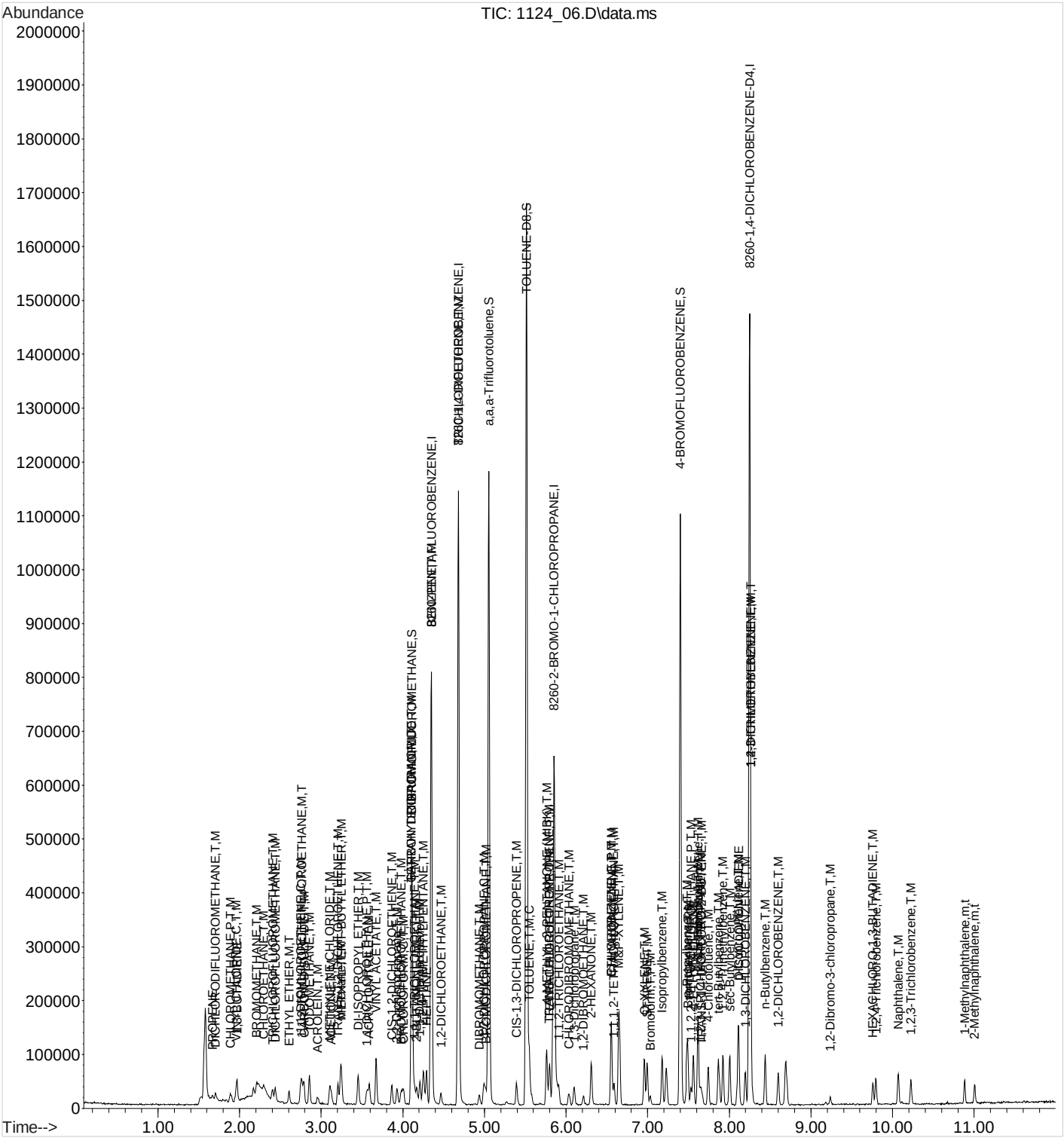
	Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
97)	ETHANOL	0.000		0	N.D.	d
98)	Bromoethane	0.000		0	N.D.	
99)	2-PROPANOL	0.000		0	N.D.	
100)	Methyl Acetate	0.000		0	N.D.	d
101)	ACETONITRILE	0.000		0	N.D.	d
102)	ALLYL CHLORIDE	0.000		0	N.D.	
103)	tert-BUTYL ALCOHOL	0.000		0	N.D.	d
104)	chloroprene	0.000		0	N.D.	d
105)	ETHYL TERT-BUTYL ETHER	0.000		0	N.D.	
106)	PROPIONITRILE	0.000		0	N.D.	
107)	Ethyl Acetate	0.000		0	N.D.	d
108)	METHACRYLONITRILE	0.000		0	N.D.	d
109)	Cyclohexane	0.000		0	N.D.	d
110)	tert-butyl formate	0.000		0	N.D.	
111)	ISOBUTANOL	0.000		0	N.D.	d
112)	t-Amyl Alcohol	0.000		0	N.D.	
113)	TERT-AMYL METHYL ETHER	0.000		0	N.D.	d
115)	N-BUTANOL	0.000		0	N.D.	d
116)	Methyl Cyclohexane	0.000		0	N.D.	d
117)	2-nitropropane	0.000		0	N.D.	d
118)	METHYL METHACRYLATE	0.000		0	N.D.	d
119)	1,4-DIOXANE	0.000		0	N.D.	d
120)	n-octane	0.000		0	N.D.	
121)	3,3-DIMETHYL-1-BUTANOL	0.000		0	N.D.	d
123)	ETHYL METHACRYLATE	0.000		0	N.D.	d
124)	CIS-1,4-DICHLORO-2-BUTENE	0.000		0	N.D.	d
125)	Cyclohexanone	0.000		0	N.D.	d
126)	PENTACHLOROETHANE	0.000		0	N.D.	d
127)	Hexachloroethane	0.000		0	N.D.	

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\112414\
Data File : 1124 06.D
Acq On : 24 Nov 2014 6:26 pm
Operator : 644
Sample : STD VMS 2 ppb 14K20062
Misc : water IS/SURR14I25028
ALS Vial : 6 Sample Multiplier: 1
InstName : VOCMS7

Quant Time: Nov 25 13:38:08 2014
Quant Method : C:\msdchem\1\methods\V807K24N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS07
QLast Update : Tue Nov 25 13:32:20 2014
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\112414\
Data File : 1124 07.D
Acq On : 24 Nov 2014 6:45 pm
Operator : 644
Sample : STD VMS 5 ppb 14K20062
Misc : water IS/SURR14I25028
ALS Vial : 7 Sample Multiplier: 1
InstName : VOCMS7

Quant Time: Nov 25 13:39:11 2014
Quant Method : C:\msdchem\1\methods\V807K24N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS07
QLast Update : Tue Nov 25 13:32:20 2014
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 8260-PENTAFLUOROBENZENE	4.353	168	405481	40.0000000 ppb	0.00
41) 8260-1,4-DIFLUOROBENZENE	4.682	114	737353	40.0000000 ppb	0.00
53) 8260-2-BROMO-1-CHLOROP...	5.850	79	123315	40.0000000 ppb	0.00
84) 8260-1,4-DICHLOROBENZE...	8.253	152	343313	40.0000000 ppb	0.00
96) AP9-PENTAFLUOROBENZENE	0.000	168	0m	40.0000000 ppb	-4.35
114) AP9-1,4-DIFLUOROBENZENE	0.000	114	0m	40.0000000 ppb	-4.68
122) AP9-2-BROMO-1-CHLOROPR...	0.000	79	0m	40.0000000 ppb	-5.85
128) AP9-1,4-DICHLOROBENZEN...	0.000	152	0m	40.0000000 ppb	-8.25
System Monitoring Compounds					
33) DIBROMOFLUOROMETHANE	4.110	111	223604	42.3610299 ppb	0.00
Spiked Amount 40.000	Range 78 - 121		Recovery = 105.90%		
46) a,a,a-Trifluorotoluene	5.053	146	421574	43.2490827 ppb	0.00
Spiked Amount 40.000	Range 85 - 114		Recovery = 108.12%		
50) TOLUENE-D8	5.515	98	955604	43.1710361 ppb	0.00
Spiked Amount 40.000	Range 89 - 111		Recovery = 107.93%		
68) 4-BROMOFLUOROBENZENE	7.401	95	364090	41.9085568 ppb	0.00
Spiked Amount 40.000	Range 71 - 126		Recovery = 104.77%		
Target Compounds					Qvalue
2) TPH (GC/MS) LOW FRACTION	4.406	TIC	-2204068m	Below Cal	
3) PROPENE	1.670	41	6980	5.5546826 ppb	94
4) DICHLORODIFLUOROMETHANE	1.707	85	24158	4.3945427 ppb	94
5) CHLOROMETHANE	1.889	50	31133	4.5019391 ppb	99
6) VINYL CHLORIDE	1.950	62	30199	4.1817861 ppb	98
7) 1,3-BUTADIENE	1.968	39	22881	4.6318545 ppb	93
8) BROMOMETHANE	2.206	94	10709	5.3955204 ppb	94
9) CHLOROETHANE	2.297	66	5360	5.0060700 ppb	95
10) TRICHLOROFLUOROMETHANE	2.400	101	28558	4.2111633 ppb	99
11) DICHLOROFLUOROMETHANE	2.437	67	44967	4.6512904 ppb	98
12) ETHYL ETHER	2.607	59	21053	4.6558649 ppb	94
13) ACROLEIN	2.954	56	18985	25.6924443 ppb	97
14) 1,1-DICHLOROETHENE	2.753	61	33600	4.2406707 ppb	96
15) 1,1,2-TRICHLOROTRIFLUO...	2.765	101	21339	4.2399262 ppb	98
16) ACETONE	3.124	43	35314	26.4389566 ppb	97
17) IODOMETHANE	2.857	142	113869	19.5498792 ppb	100
18) CARBON DISULFIDE	2.784	76	84589	4.5104489 ppb	100
19) METHYLENE CHLORIDE	3.106	84	27382	4.7990754 ppb	98
20) ACRYLONITRILE	3.587	53	49256	25.2105008 ppb	98
21) n-Hexane	3.234	56	25442	4.6685225 ppb	93
22) TRANS-1,2-DICHLOROETHENE	3.203	96	25420	4.4737284 ppb	99
23) METHYL TERT-BUTYL ETHER	3.246	73	73600	4.9262167 ppb	94
24) 1,1-DICHLOROETHANE	3.562	63	44031	4.3878548 ppb	98
25) VINYL ACETATE	3.672	43	230809	26.4977675 ppb	99
26) DI-ISOPROPYL ETHER	3.453	45	87085	4.8177380 ppb	100
27) 2,2-Dichloropropane	3.927	77	37012	4.5880967 ppb	99
28) CIS-1,2-DICHLOROETHENE	3.866	96	27549	4.5151329 ppb	97
29) 2-BUTANONE (MEK)	4.171	72	16612	23.7772928 ppb	88
30) BROMOCHLOROMETHANE	3.982	130	15476	4.6748733 ppb	92
31) TETRAHYDROFURAN	4.104	42	10012	6.0298272 ppb #	92
32) CHLOROFORM	4.006	83	41196	4.5708653 ppb	96
34) 1,1,1-TRICHLOROETHANE	4.146	97	32190	4.4883608 ppb	97
35) CARBON TETRACHLORIDE	4.104	117	23953	4.1686267 ppb	82

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\112414\
Data File : 1124 07.D
Acq On : 24 Nov 2014 6:45 pm
Operator : 644
Sample : STD VMS 5 ppb 14K20062
Misc : water IS/SURR14I25028
ALS Vial : 7 Sample Multiplier: 1
InstName : VOCMS7

Quant Time: Nov 25 13:39:11 2014
Quant Method : C:\msdchem\1\methods\V807K24N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS07
QLast Update : Tue Nov 25 13:32:20 2014
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units		Dev(Min)
36) 1,1-Dichloropropene	4.207	75	35325	4.5377195 ppb		98
37) 2,2,4-TRIMETHYLPENTANE	4.250	57	105680	4.4175419 ppb		99
38) HEPTANE	4.292	43	43636	4.6014870 ppb		98
39) BENZENE	4.353	78	103383	4.5857518 ppb		97
40) 1,2-DICHLOROETHANE	4.469	62	29212	4.8642722 ppb		98
42) TRICHLOROETHENE	4.682	130	23621	4.4482507 ppb		100
43) 1,2-DICHLOROPROPANE	4.992	62	19968	4.7777476 ppb		93
44) DIBROMOMETHANE	4.937	93	14598	4.7414559 ppb		97
45) BROMODICHLOROMETHANE	5.016	83	33436	4.9561684 ppb		99
47) 2-CHLOROETHYL VINYL ETHER	5.333	63	841	37.3082531 ppb	#	50
48) CIS-1,3-DICHLOROPROPENE	5.393	75	44827	4.8058087 ppb		98
49) 4-METHYL-2-PENTANONE (...	5.765	58	53751	25.1985644 ppb		99
51) TOLUENE	5.552	91	108840	4.6895378 ppb		100
52) TRANS-1,3-DICHLOROPROPENE	5.795	110	9878	4.8408358 ppb		97
54) 1,1,2-TRICHLOROETHANE	5.911	97	23133	4.7625576 ppb		98
55) TETRACHLOROETHENE	5.801	164	17744	4.4469944 ppb		99
56) 1,3-Dichloropropane	6.099	76	39752	4.8075504 ppb		100
57) 2-HEXANONE	6.306	58	55284	24.6729015 ppb		98
58) CHLORODIBROMOMETHANE	6.038	129	20990	4.4751009 ppb		99
59) 1,2-DIBROMOETHANE	6.215	107	23926	4.9352834 ppb		98
60) CHLOROBENZENE	6.555	112	68805	4.5355477 ppb		97
61) 1,1,1,2-TETRACHLOROETHANE	6.592	133	20528	4.6973963 ppb	#	98
62) ETHYLBENZENE	6.555	106	37971	4.3945536 ppb		93
63) M&P-XYLENE	6.653	106	97468	9.3364314 ppb		100
64) O-XYLENE	6.957	106	47749	4.6051824 ppb		99
65) STYRENE	6.993	104	76751	4.6045990 ppb		98
66) Bromoform	7.036	173	13981	4.9118956 ppb		97
67) Isopropylbenzene	7.176	105	119025	4.5314070 ppb		98
69) Bromobenzene	7.492	77	52104	4.7784646 ppb		100
70) 1,1,2,2-TETRACHLOROETHANE	7.529	83	33078	5.0456708 ppb		99
71) 1,2,3-TRICHLOROPROPANE	7.650	110	8169	5.2999659 ppb		92
72) TRANS-1,4-DICHLORO-2-B...	7.663	53	8238	4.9064567 ppb		98
73) n-Propylbenzene	7.480	91	140854	4.4761613 ppb		99
74) 4-ETHYLTOLUENE	7.559	105	115588	4.5602308 ppb		100
75) 2-Chlorotoluene	7.620	126	25574	4.5602229 ppb		97
76) 4-Chlorotoluene	7.742	91	85793	4.5786822 ppb		98
77) 1,3,5-Trimethylbenzene	7.620	105	94089	4.5146949 ppb		99
78) tert-Butylbenzene	7.869	119	80133	4.5263469 ppb		100
79) 1,2,4-Trimethylbenzene	7.918	105	99206	4.7398839 ppb		98
80) sec-Butylbenzene	8.003	105	130911	4.5643715 ppb		98
81) 1,3-DICHLOROBENZENE	8.198	146	52876	4.6788317 ppb		100
82) p-Isopropyltoluene	8.107	119	104304	4.6134066 ppb		99
83) DICYCLOPENTADIENE	8.113	66	119502	4.5783618 ppb		99
85) 1,4-DICHLOROBENZENE	8.265	146	50454	4.6921572 ppb	#	1
86) 1,2,3-TRIMETHYLBENZENE	8.265	105	97336	4.8067174 ppb		98
87) 1,2-DICHLOROBENZENE	8.600	146	50454	4.8135237 ppb		99
88) n-Butylbenzene	8.441	91	101054	4.6004337 ppb		99
89) 1,2-Dibromo-3-chloropr...	9.238	157	6092	4.7504751 ppb		98
90) 1,2,4-Trichlorobenzene	9.798	180	31396	4.7719269 ppb		98
91) HEXACHLORO-1,3-BUTADIENE	9.755	225	14112	4.4991074 ppb		99
92) Naphthalene	10.072	128	90984	4.9034457 ppb		99
93) 1,2,3-Trichlorobenzene	10.224	180	29148	5.1006679 ppb		97
94) 1-Methylnaphthalene	10.881	142	37030	4.5793189 ppb		97
95) 2-Methylnaphthalene	11.003	142	33214	5.0484743 ppb		100

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\112414\
Data File : 1124 07.D
Acq On : 24 Nov 2014 6:45 pm
Operator : 644
Sample : STD VMS 5 ppb 14K20062
Misc : water IS/SURR14I25028
ALS Vial : 7 Sample Multiplier: 1
InstName : VOCMS7

Quant Time: Nov 25 13:39:11 2014
Quant Method : C:\msdchem\1\methods\V807K24N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS07
QLast Update : Tue Nov 25 13:32:20 2014
Response via : Initial Calibration

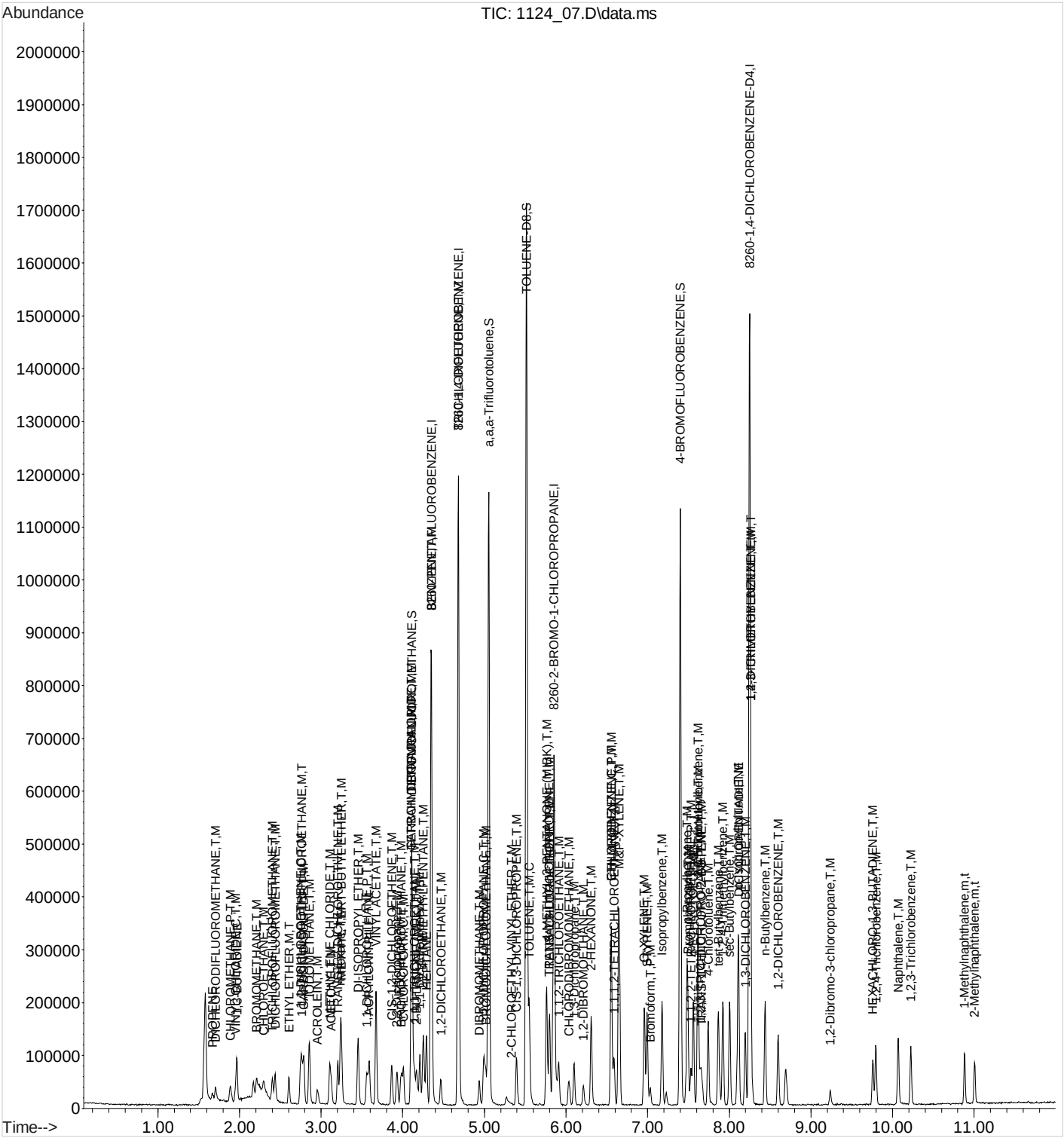
	Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
97)	ETHANOL	0.000		0	N.D.	d
98)	Bromoethane	0.000		0	N.D.	
99)	2-PROPANOL	0.000		0	N.D.	
100)	Methyl Acetate	0.000		0	N.D.	d
101)	ACETONITRILE	0.000		0	N.D.	d
102)	ALLYL CHLORIDE	0.000		0	N.D.	
103)	tert-BUTYL ALCOHOL	0.000		0	N.D.	d
104)	chloroprene	0.000		0	N.D.	d
105)	ETHYL TERT-BUTYL ETHER	0.000		0	N.D.	
106)	PROPIONITRILE	0.000		0	N.D.	
107)	Ethyl Acetate	0.000		0	N.D.	d
108)	METHACRYLONITRILE	0.000		0	N.D.	d
109)	Cyclohexane	0.000		0	N.D.	d
110)	tert-butyl formate	0.000		0	N.D.	
111)	ISOBUTANOL	0.000		0	N.D.	d
112)	t-Amyl Alcohol	0.000		0	N.D.	
113)	TERT-AMYL METHYL ETHER	0.000		0	N.D.	d
115)	N-BUTANOL	0.000		0	N.D.	d
116)	Methyl Cyclohexane	0.000		0	N.D.	d
117)	2-nitropropane	0.000		0	N.D.	d
118)	METHYL METHACRYLATE	0.000		0	N.D.	d
119)	1,4-DIOXANE	0.000		0	N.D.	d
120)	n-octane	0.000		0	N.D.	d
121)	3,3-DIMETHYL-1-BUTANOL	0.000		0	N.D.	d
123)	ETHYL METHACRYLATE	0.000		0	N.D.	d
124)	CIS-1,4-DICHLORO-2-BUTENE	0.000		0	N.D.	d
125)	Cyclohexanone	0.000		0	N.D.	d
126)	PENTACHLOROETHANE	0.000		0	N.D.	d
127)	Hexachloroethane	0.000		0	N.D.	d

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\112414\
Data File : 1124 07.D
Acq On : 24 Nov 2014 6:45 pm
Operator : 644
Sample : STD VMS 5 ppb 14K20062
Misc : water IS/SURR14I25028
ALS Vial : 7 Sample Multiplier: 1
InstName : VOCMS7

Quant Time: Nov 25 13:39:11 2014
Quant Method : C:\msdchem\1\methods\V807K24N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS07
QLast Update : Tue Nov 25 13:32:20 2014
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\112414\
Data File : 1124 08.D
Acq On : 24 Nov 2014 7:04 pm
Operator : 644
Sample : STD VMS 10 ppb 14K20062
Misc : water IS/SURR14I25028
ALS Vial : 8 Sample Multiplier: 1
InstName : VOCMS7

Quant Time: Nov 25 13:40:11 2014
Quant Method : C:\msdchem\1\methods\V807K24N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS07
QLast Update : Tue Nov 25 13:32:20 2014
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 8260-PENTAFLUOROBENZENE	4.353	168	394008	40.0000000	ppb	0.00
41) 8260-1,4-DIFLUOROBENZENE	4.682	114	728947	40.0000000	ppb	0.00
53) 8260-2-BROMO-1-CHLOROP...	5.850	79	120994	40.0000000	ppb	0.00
84) 8260-1,4-DICHLOROBENZE...	8.253	152	341397	40.0000000	ppb	0.00
96) AP9-PENTAFLUOROBENZENE	0.000	168	0m	40.0000000	ppb	-4.35
114) AP9-1,4-DIFLUOROBENZENE	0.000	114	0m	40.0000000	ppb	-4.68
122) AP9-2-BROMO-1-CHLOROPR...	0.000	79	0m	40.0000000	ppb	-5.85
128) AP9-1,4-DICHLOROBENZEN...	0.000	152	0m	40.0000000	ppb	-8.25
System Monitoring Compounds						
33) DIBROMOFLUOROMETHANE	4.110	111	223568	43.5875092	ppb	0.00
Spiked Amount 40.000	Range 78 - 121		Recovery = 108.97%			
46) a,a,a-Trifluorotoluene	5.053	146	429201	44.5392917	ppb	0.00
Spiked Amount 40.000	Range 85 - 114		Recovery = 111.35%			
50) TOLUENE-D8	5.515	98	960398	43.8879462	ppb	0.00
Spiked Amount 40.000	Range 89 - 111		Recovery = 109.72%			
68) 4-BROMOFLUOROBENZENE	7.401	95	364994	42.8185300	ppb	0.00
Spiked Amount 40.000	Range 71 - 126		Recovery = 107.05%			
Target Compounds						Qvalue
2) TPH (GC/MS) LOW FRACTION	4.406	TIC	-1208083m	Below Cal		
3) PROPENE	1.670	41	11289	9.2453800	ppb	92
4) DICHLORODIFLUOROMETHANE	1.707	85	51274	9.5987655	ppb	98
5) CHLOROMETHANE	1.883	50	63128	9.3943373	ppb	99
6) VINYL CHLORIDE	1.950	62	67524	9.6226100	ppb	99
7) 1,3-BUTADIENE	1.968	39	47233	9.8399051	ppb	97
8) BROMOMETHANE	2.206	94	20014	10.3772859	ppb	96
9) CHLOROETHANE	2.297	66	11101	10.6698841	ppb	96
10) TRICHLOROFLUOROMETHANE	2.400	101	64650	9.8108875	ppb #	98
11) DICHLOROFLUOROMETHANE	2.437	67	88208	9.3897275	ppb	98
12) ETHYL ETHER	2.601	59	42737	9.7264841	ppb	99
13) ACROLEIN	2.954	56	37065	51.6207483	ppb	94
14) 1,1-DICHLOROETHENE	2.747	61	71873	9.3352620	ppb	97
15) 1,1,2-TRICHLOROTRIFLUO...	2.765	101	46246	9.4563574	ppb	97
16) ACETONE	3.124	43	68673	52.9113555	ppb	100
17) IODOMETHANE	2.857	142	251303	44.4019163	ppb	99
18) CARBON DISULFIDE	2.784	76	178321	9.7852930	ppb	99
19) METHYLENE CHLORIDE	3.106	84	53919	9.7252261	ppb	98
20) ACRYLONITRILE	3.587	53	95582	50.3458775	ppb	100
21) n-Hexane	3.234	56	51535	9.7318624	ppb	99
22) TRANS-1,2-DICHLOROETHENE	3.203	96	52997	9.5986648	ppb	99
23) METHYL TERT-BUTYL ETHER	3.246	73	142086	9.7870647	ppb	100
24) 1,1-DICHLOROETHANE	3.562	63	91554	9.3893707	ppb	99
25) VINYL ACETATE	3.672	43	433593	51.2276315	ppb	100
26) DI-ISOPROPYL ETHER	3.453	45	171034	9.7375060	ppb	99
27) 2,2-Dichloropropane	3.933	77	74591	9.5157255	ppb	99
28) CIS-1,2-DICHLOROETHENE	3.866	96	57516	9.7010521	ppb	100
29) 2-BUTANONE (MEK)	4.171	72	34423	50.7054532	ppb	99
30) BROMOCHLOROMETHANE	3.982	130	31043	9.6502881	ppb	100
31) TETRAHYDROFURAN	4.104	42	16576	10.2737557	ppb	97
32) CHLOROFORM	4.006	83	82348	9.4029018	ppb	96
34) 1,1,1-TRICHLOROETHANE	4.140	97	68191	9.7849658	ppb	97
35) CARBON TETRACHLORIDE	4.104	117	52029	9.3184578	ppb	97

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\112414\
Data File : 1124 08.D
Acq On : 24 Nov 2014 7:04 pm
Operator : 644
Sample : STD VMS 10 ppb 14K20062
Misc : water IS/SURR14I25028
ALS Vial : 8 Sample Multiplier: 1
InstName : VOCMS7

Quant Time: Nov 25 13:40:11 2014
Quant Method : C:\msdchem\1\methods\V807K24N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS07
QLast Update : Tue Nov 25 13:32:20 2014
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units		Dev(Min)
36) 1,1-Dichloropropene	4.207	75	72208	9.5456665 ppb		98
37) 2,2,4-TRIMETHYLPENTANE	4.250	57	232931	10.0202978 ppb		99
38) HEPTANE	4.292	43	88562	9.6109463 ppb		96
39) BENZENE	4.353	78	209483	9.5625928 ppb		99
40) 1,2-DICHLOROETHANE	4.469	62	55893	9.5781023 ppb		97
42) TRICHLOROETHENE	4.682	130	50029	9.5299867 ppb		99
43) 1,2-DICHLOROPROPANE	4.998	62	40800	9.8747997 ppb		95
44) DIBROMOMETHANE	4.937	93	28610	9.3997372 ppb		97
45) BROMODICHLOROMETHANE	5.016	83	65837	9.8714573 ppb		98
47) 2-CHLOROETHYL VINYL ETHER	5.339	63	1468	65.8740663 ppb	#	50
48) CIS-1,3-DICHLOROPROPENE	5.393	75	88751	9.6245307 ppb		98
49) 4-METHYL-2-PENTANONE (...	5.764	58	106688	50.5922883 ppb		99
51) TOLUENE	5.552	91	222410	9.6933817 ppb		100
52) TRANS-1,3-DICHLOROPROPENE	5.801	110	19959	9.8939476 ppb		98
54) 1,1,2-TRICHLOROETHANE	5.910	97	44958	9.4333802 ppb		99
55) TETRACHLOROETHENE	5.801	164	37563	9.5946116 ppb		99
56) 1,3-Dichloropropane	6.099	76	78835	9.7170851 ppb		100
57) 2-HEXANONE	6.306	58	108086	49.1634424 ppb		98
58) CHLORODIBROMOMETHANE	6.038	129	43778	9.5125814 ppb		99
59) 1,2-DIBROMOETHANE	6.215	107	45980	9.6663615 ppb		100
60) CHLOROBENZENE	6.555	112	139609	9.3794036 ppb		97
61) 1,1,1,2-TETRACHLOROETHANE	6.592	133	41045	9.5724453 ppb	#	99
62) ETHYLBENZENE	6.555	106	82848	9.7723008 ppb		95
63) M&P-XYLENE	6.653	106	197468	19.2782521 ppb		100
64) O-XYLENE	6.963	106	96415	9.4771823 ppb		99
65) STYRENE	6.993	104	157540	9.6327588 ppb		96
66) Bromoform	7.036	173	27117	9.7096730 ppb		99
67) Isopropylbenzene	7.176	105	245325	9.5189438 ppb		100
69) Bromobenzene	7.492	77	104039	9.7244612 ppb		99
70) 1,1,2,2-TETRACHLOROETHANE	7.529	83	63415	9.8587927 ppb		98
71) 1,2,3-TRICHLOROPROPANE	7.650	110	15283	10.1056643 ppb		87
72) TRANS-1,4-DICHLORO-2-B...	7.663	53	15165	9.2053578 ppb		93
73) n-Propylbenzene	7.480	91	288775	9.3529413 ppb		99
74) 4-ETHYLTOLUENE	7.559	105	235937	9.4868536 ppb		100
75) 2-Chlorotoluene	7.620	126	52207	9.4878590 ppb		97
76) 4-Chlorotoluene	7.742	91	174184	9.4743403 ppb		100
77) 1,3,5-Trimethylbenzene	7.620	105	195857	9.5781299 ppb		100
78) tert-Butylbenzene	7.869	119	165873	9.5491389 ppb		99
79) 1,2,4-Trimethylbenzene	7.918	105	198486	9.6652195 ppb		100
80) sec-Butylbenzene	8.003	105	265952	9.4506173 ppb		100
81) 1,3-DICHLOROBENZENE	8.198	146	105235	9.4905441 ppb		98
82) p-Isopropyltoluene	8.107	119	213888	9.6418254 ppb		100
83) DICYCLOPENTADIENE	8.113	66	242823	9.4814953 ppb		99
85) 1,4-DICHLOROBENZENE	8.265	146	103719	9.6998680 ppb	#	1
86) 1,2,3-TRIMETHYLBENZENE	8.265	105	193880	9.6280570 ppb		100
87) 1,2-DICHLOROBENZENE	8.599	146	99688	9.5640303 ppb		99
88) n-Butylbenzene	8.441	91	206374	9.4478022 ppb		99
89) 1,2-Dibromo-3-chloropr...	9.238	157	12484	9.7895213 ppb		97
90) 1,2,4-Trichlorobenzene	9.798	180	61770	9.4412090 ppb		100
91) HEXACHLORO-1,3-BUTADIENE	9.755	225	30161	9.6697241 ppb		97
92) Naphthalene	10.072	128	179637	9.7355993 ppb		99
93) 1,2,3-Trichlorobenzene	10.224	180	54974	9.6740020 ppb		99
94) 1-Methylnaphthalene	10.887	142	77432	9.6293773 ppb		99
95) 2-Methylnaphthalene	11.002	142	63106	9.6458426 ppb		100

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\112414\
Data File : 1124 08.D
Acq On : 24 Nov 2014 7:04 pm
Operator : 644
Sample : STD VMS 10 ppb 14K20062
Misc : water IS/SURR14I25028
ALS Vial : 8 Sample Multiplier: 1
InstName : VOCMS7

Quant Time: Nov 25 13:40:11 2014
Quant Method : C:\msdchem\1\methods\V807K24N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS07
QLast Update : Tue Nov 25 13:32:20 2014
Response via : Initial Calibration

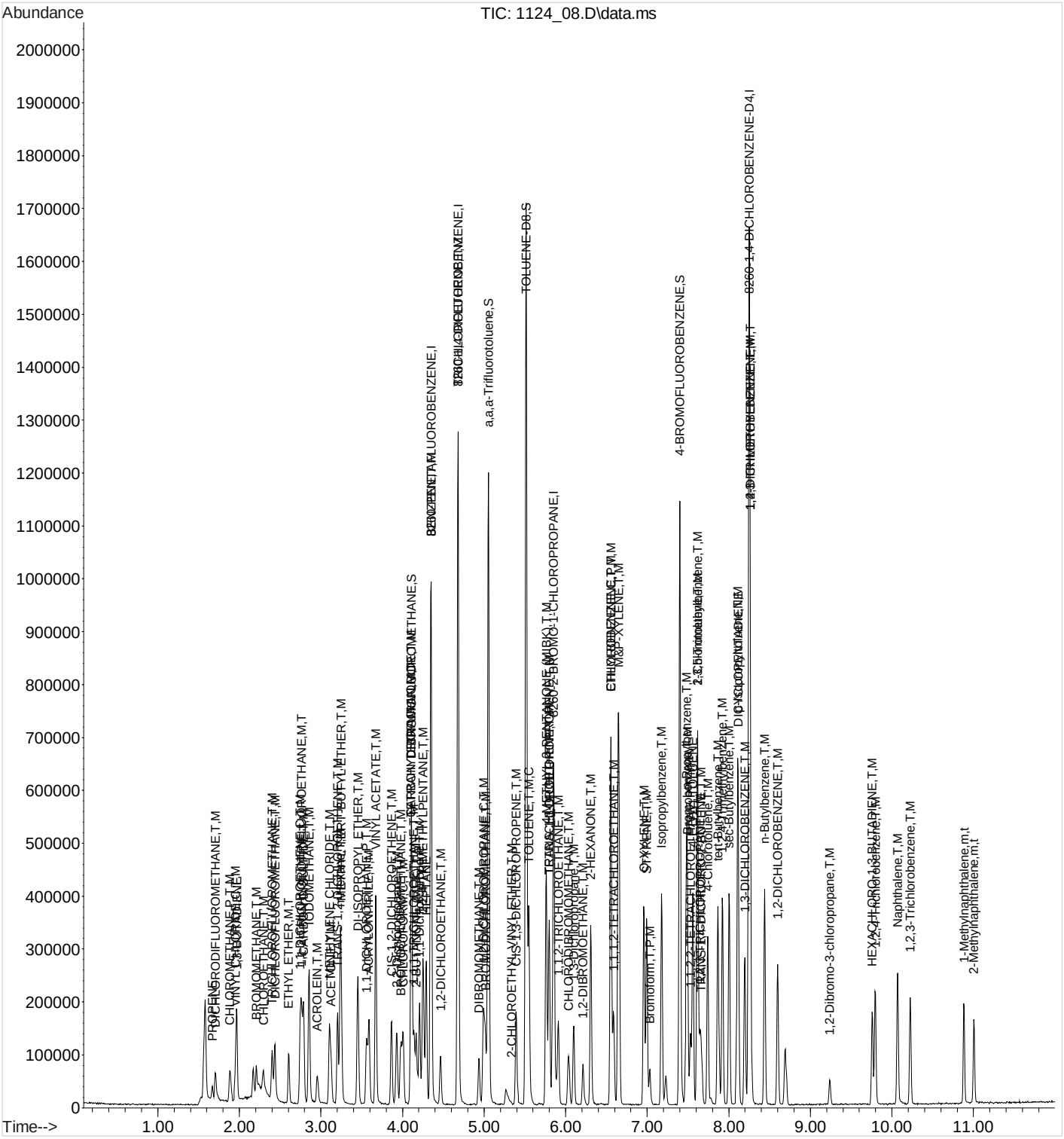
	Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
97)	ETHANOL	0.000		0	N.D.	d
98)	Bromoethane	0.000		0	N.D.	
99)	2-PROPANOL	0.000		0	N.D.	d
100)	Methyl Acetate	0.000		0	N.D.	d
101)	ACETONITRILE	0.000		0	N.D.	d
102)	ALLYL CHLORIDE	0.000		0	N.D.	
103)	tert-BUTYL ALCOHOL	0.000		0	N.D.	d
104)	chloroprene	0.000		0	N.D.	d
105)	ETHYL TERT-BUTYL ETHER	0.000		0	N.D.	
106)	PROPIONITRILE	0.000		0	N.D.	d
107)	Ethyl Acetate	0.000		0	N.D.	d
108)	METHACRYLONITRILE	0.000		0	N.D.	d
109)	Cyclohexane	0.000		0	N.D.	d
110)	tert-butyl formate	0.000		0	N.D.	
111)	ISOBUTANOL	0.000		0	N.D.	
112)	t-Amyl Alcohol	0.000		0	N.D.	
113)	TERT-AMYL METHYL ETHER	0.000		0	N.D.	d
115)	N-BUTANOL	0.000		0	N.D.	d
116)	Methyl Cyclohexane	0.000		0	N.D.	d
117)	2-nitropropane	0.000		0	N.D.	d
118)	METHYL METHACRYLATE	0.000		0	N.D.	d
119)	1,4-DIOXANE	0.000		0	N.D.	d
120)	n-octane	0.000		0	N.D.	d
121)	3,3-DIMETHYL-1-BUTANOL	0.000		0	N.D.	d
123)	ETHYL METHACRYLATE	0.000		0	N.D.	d
124)	CIS-1,4-DICHLORO-2-BUTENE	0.000		0	N.D.	d
125)	Cyclohexanone	0.000		0	N.D.	d
126)	PENTACHLOROETHANE	0.000		0	N.D.	d
127)	Hexachloroethane	0.000		0	N.D.	d

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\112414\
Data File : 1124 08.D
Acq On : 24 Nov 2014 7:04 pm
Operator : 644
Sample : STD VMS 10 ppb 14K20062
Misc : water IS/SURR14I25028
ALS Vial : 8 Sample Multiplier: 1
InstName : VOCMS7

Quant Time: Nov 25 13:40:11 2014
Quant Method : C:\msdchem\1\methods\V807K24N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS07
QLast Update : Tue Nov 25 13:32:20 2014
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\112414\
Data File : 1124 09.D
Acq On : 24 Nov 2014 7:23 pm
Operator : 644
Sample : MSTD VMS 25 ppb 14K20062
Misc : water IS/SURR14I25028
ALS Vial : 9 Sample Multiplier: 1
InstName : VOCMS7

Quant Time: Nov 25 13:40:38 2014
Quant Method : C:\msdchem\1\methods\V807K24N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS07
QLast Update : Tue Nov 25 13:32:20 2014
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 8260-PENTAFLUOROBENZENE	4.347	168	380403	40.0000000	ppb	0.00
41) 8260-1,4-DIFLUOROBENZENE	4.682	114	708374	40.0000000	ppb	0.00
53) 8260-2-BROMO-1-CHLOROP...	5.850	79	115432	40.0000000	ppb	0.00
84) 8260-1,4-DICHLOROBENZE...	8.253	152	325334	40.0000000	ppb	0.00
96) AP9-PENTAFLUOROBENZENE	0.000	168	0m	40.0000000	ppb	-4.35
114) AP9-1,4-DIFLUOROBENZENE	0.000	114	0m	40.0000000	ppb	-4.68
122) AP9-2-BROMO-1-CHLOROPR...	0.000	79	0m	40.0000000	ppb	-5.85
128) AP9-1,4-DICHLOROBENZEN...	0.000	152	0m	40.0000000	ppb	-8.25
System Monitoring Compounds						
33) DIBROMOFLUOROMETHANE	4.110	111	222843	45.0000000	ppb	0.00
Spiked Amount 40.000	Range 78 - 121		Recovery = 112.50%			
46) a,a,a-Trifluorotoluene	5.053	146	421402	45.0000000	ppb	0.00
Spiked Amount 40.000	Range 85 - 114		Recovery = 112.50%			
50) TOLUENE-D8	5.515	98	956941	45.0000000	ppb	0.00
Spiked Amount 40.000	Range 89 - 111		Recovery = 112.50%#			
68) 4-BROMOFLUOROBENZENE	7.401	95	365956	45.0000000	ppb	0.00
Spiked Amount 40.000	Range 71 - 126		Recovery = 112.50%			
Target Compounds						Qvalue
2) TPH (GC/MS) LOW FRACTION	4.406	TIC	2408189m	10.0000000	ppm	
3) PROPENE	1.670	41	29472	25.0000000	ppb	100
4) DICHLORODIFLUOROMETHANE	1.707	85	128932	25.0000000	ppb	100
5) CHLOROMETHANE	1.883	50	162194	25.0000000	ppb	100
6) VINYL CHLORIDE	1.950	62	169373	25.0000000	ppb	100
7) 1,3-BUTADIENE	1.962	39	115860	25.0000000	ppb	100
8) BROMOMETHANE	2.206	94	46551	25.0000000	ppb	100
9) CHLOROETHANE	2.291	66	25112	25.0000000	ppb	100
10) TRICHLOROFLUOROMETHANE	2.400	101	159052	25.0000000	ppb	100
11) DICHLOROFLUOROMETHANE	2.431	67	226743	25.0000000	ppb	100
12) ETHYL ETHER	2.601	59	106054	25.0000000	ppb	100
13) ACROLEIN	2.954	56	86654	125.0000000	ppb	100
14) 1,1-DICHLOROETHENE	2.747	61	185831	25.0000000	ppb	100
15) 1,1,2-TRICHLOROTRIFLUO...	2.765	101	118040	25.0000000	ppb	100
16) ACETONE	3.124	43	156634	125.0000000	ppb	100
17) IODOMETHANE	2.851	142	683038	125.0000000	ppb	100
18) CARBON DISULFIDE	2.784	76	439853	25.0000000	ppb	100
19) METHYLENE CHLORIDE	3.106	84	133820	25.0000000	ppb	100
20) ACRYLONITRILE	3.587	53	229119	125.0000000	ppb	100
21) n-Hexane	3.234	56	127816	25.0000000	ppb	100
22) TRANS-1,2-DICHLOROETHENE	3.203	96	133266	25.0000000	ppb	100
23) METHYL TERT-BUTYL ETHER	3.246	73	350411	25.0000000	ppb	100
24) 1,1-DICHLOROETHANE	3.562	63	235353	25.0000000	ppb	100
25) VINYL ACETATE	3.672	43	1021473	125.0000000	ppb	100
26) DI-ISOPROPYL ETHER	3.453	45	423949	25.0000000	ppb	100
27) 2,2-Dichloropropane	3.927	77	189201	25.0000000	ppb	100
28) CIS-1,2-DICHLOROETHENE	3.866	96	143103	25.0000000	ppb	100
29) 2-BUTANONE (MEK)	4.171	72	81930	125.0000000	ppb	100
30) BROMOCHLOROMETHANE	3.982	130	77643	25.0000000	ppb	100
31) TETRAHYDROFURAN	4.104	42	38943	25.0000000	ppb	100
32) CHLOROFORM	4.006	83	211383	25.0000000	ppb	100
34) 1,1,1-TRICHLOROETHANE	4.140	97	168208	25.0000000	ppb	100
35) CARBON TETRACHLORIDE	4.104	117	134766	25.0000000	ppb	100

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\112414\
Data File : 1124 09.D
Acq On : 24 Nov 2014 7:23 pm
Operator : 644
Sample : MSTD VMS 25 ppb 14K20062
Misc : water IS/SURR14I25028
ALS Vial : 9 Sample Multiplier: 1
InstName : VOCMS7

Quant Time: Nov 25 13:40:38 2014
Quant Method : C:\msdchem\1\methods\V807K24N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS07
QLast Update : Tue Nov 25 13:32:20 2014
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
36)	1,1-Dichloropropene	4.207	75	182582	25.0000000	ppb		100
37)	2,2,4-TRIMETHYLPENTANE	4.250	57	561081	25.0000000	ppb		100
38)	HEPTANE	4.286	43	222413	25.0000000	ppb		100
39)	BENZENE	4.353	78	528752	25.0000000	ppb		100
40)	1,2-DICHLOROETHANE	4.463	62	140850	25.0000000	ppb		100
42)	TRICHLOROETHENE	4.676	130	127537	25.0000000	ppb		100
43)	1,2-DICHLOROPROPANE	4.992	62	100378	25.0000000	ppb		100
44)	DIBROMOMETHANE	4.937	93	73945	25.0000000	ppb		100
45)	BROMODICHLOROMETHANE	5.016	83	162030	25.0000000	ppb		100
47)	2-CHLOROETHYL VINYL ETHER	5.333	63	2707	125.0000000	ppb	#	100
48)	CIS-1,3-DICHLOROPROPENE	5.393	75	224027	25.0000000	ppb		100
49)	4-METHYL-2-PENTANONE (...	5.765	58	256158	125.0000000	ppb		100
51)	TOLUENE	5.552	91	557424	25.0000000	ppb		100
52)	TRANS-1,3-DICHLOROPROPENE	5.801	110	49009	25.0000000	ppb		100
54)	1,1,2-TRICHLOROETHANE	5.911	97	113669	25.0000000	ppb		100
55)	TETRACHLOROETHENE	5.801	164	93376	25.0000000	ppb		100
56)	1,3-Dichloropropane	6.099	76	193502	25.0000000	ppb		100
57)	2-HEXANONE	6.306	58	262180	125.0000000	ppb		100
58)	CHLORODIBROMOMETHANE	6.038	129	109764	25.0000000	ppb		100
59)	1,2-DIBROMOETHANE	6.215	107	113451	25.0000000	ppb		100
60)	CHLOROBENZENE	6.555	112	355010	25.0000000	ppb		100
61)	1,1,1,2-TETRACHLOROETHANE	6.592	133	102268	25.0000000	ppb	#	100
62)	ETHYLBENZENE	6.555	106	202203	25.0000000	ppb		100
63)	M&P-XYLENE	6.647	106	488609	50.0000000	ppb		100
64)	O-XYLENE	6.957	106	242643	25.0000000	ppb		100
65)	STYRENE	6.993	104	395947	25.3766632	ppb		99
66)	Bromoform	7.036	173	66610	25.0000000	ppb		100
67)	Isopropylbenzene	7.176	105	614689	25.0000000	ppb		100
69)	Bromobenzene	7.492	77	255172	25.0000000	ppb		100
70)	1,1,2,2-TETRACHLOROETHANE	7.529	83	153416	25.0000000	ppb		100
71)	1,2,3-TRICHLOROPROPANE	7.650	110	36070	25.0000000	ppb		100
72)	TRANS-1,4-DICHLORO-2-B...	7.663	53	39292	25.0000000	ppb		100
73)	n-Propylbenzene	7.480	91	736400	25.0000000	ppb		100
74)	4-ETHYLTOLUENE	7.559	105	593166	25.0000000	ppb		100
75)	2-Chlorotoluene	7.620	126	131239	25.0000000	ppb		100
76)	4-Chlorotoluene	7.742	91	438492	25.0000000	ppb		100
77)	1,3,5-Trimethylbenzene	7.620	105	487709	25.0000000	ppb		100
78)	tert-Butylbenzene	7.869	119	414299	25.0000000	ppb		100
79)	1,2,4-Trimethylbenzene	7.918	105	489802	25.0000000	ppb		100
80)	sec-Butylbenzene	8.003	105	671190	25.0000000	ppb		100
81)	1,3-DICHLOROBENZENE	8.198	146	264467	25.0000000	ppb		100
82)	p-Isopropyltoluene	8.107	119	529090	25.0000000	ppb		100
83)	DICYCLOPENTADIENE	8.113	66	610823	25.0000000	ppb		100
85)	1,4-DICHLOROBENZENE	8.265	146	254743	25.0000000	ppb		100
86)	1,2,3-TRIMETHYLBENZENE	8.265	105	479738	25.0000000	ppb		100
87)	1,2-DICHLOROBENZENE	8.600	146	248320	25.0000000	ppb		100
88)	n-Butylbenzene	8.441	91	520396	25.0000000	ppb		100
89)	1,2-Dibromo-3-chloropr...	9.244	157	30381	25.0000000	ppb		100
90)	1,2,4-Trichlorobenzene	9.798	180	155869	25.0000000	ppb		100
91)	HEXACHLORO-1,3-BUTADIENE	9.755	225	74309	25.0000000	ppb		100
92)	Naphthalene	10.072	128	439585	25.0000000	ppb		100
93)	1,2,3-Trichlorobenzene	10.224	180	135382	25.0000000	ppb		100
94)	1-Methylnaphthalene	10.887	142	191572	25.0000000	ppb		100
95)	2-Methylnaphthalene	11.003	142	155862	25.0000000	ppb		100

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\112414\
Data File : 1124 09.D
Acq On : 24 Nov 2014 7:23 pm
Operator : 644
Sample : MSTD VMS 25 ppb 14K20062
Misc : water IS/SURR14I25028
ALS Vial : 9 Sample Multiplier: 1
InstName : VOCMS7

Quant Time: Nov 25 13:40:38 2014
Quant Method : C:\msdchem\1\methods\V807K24N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS07
QLast Update : Tue Nov 25 13:32:20 2014
Response via : Initial Calibration

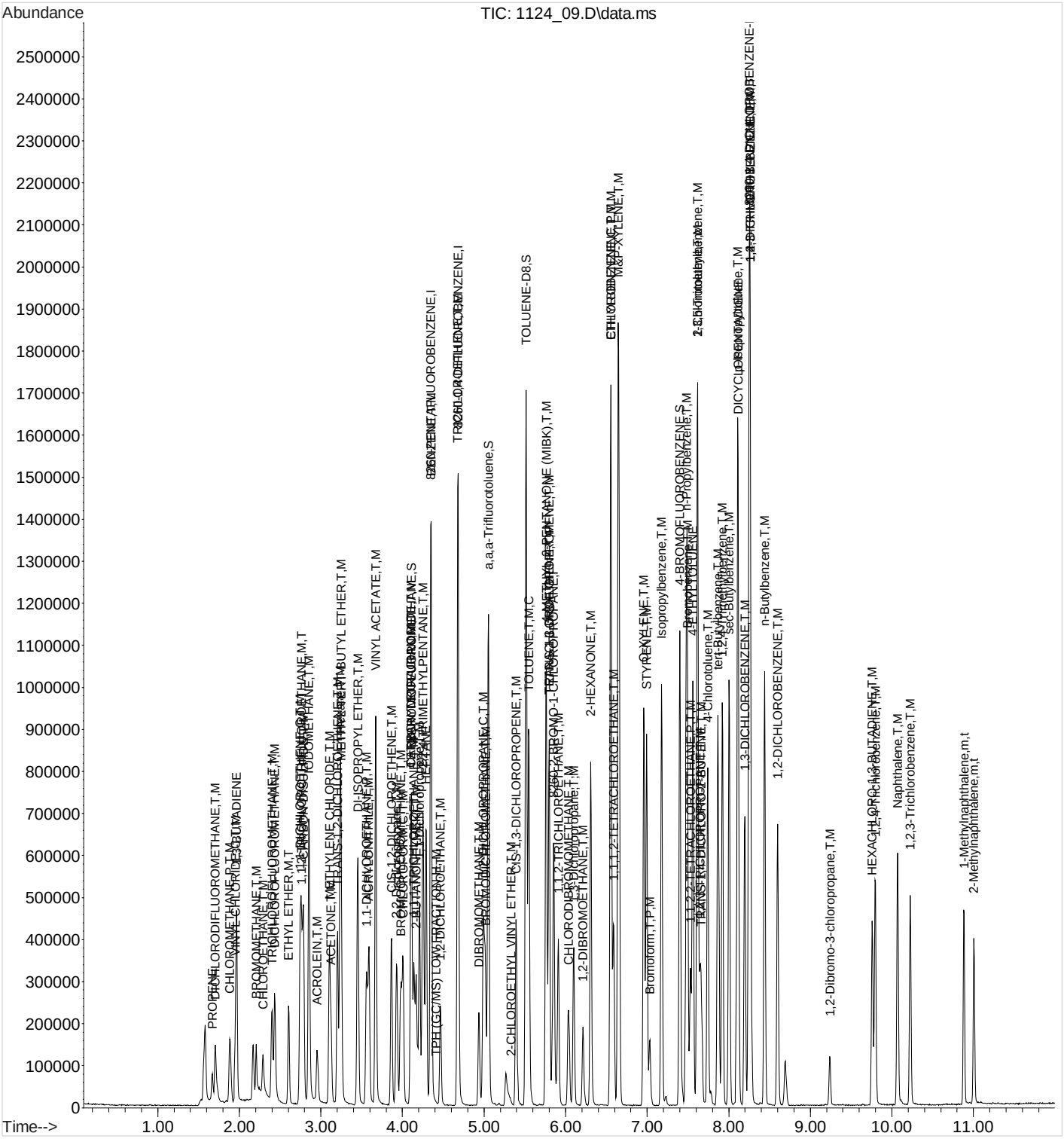
	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
97)	ETHANOL	0.000		0	N.D.	d	
98)	Bromoethane	0.000		0	N.D.		
99)	2-PROPANOL	0.000		0	N.D.		
100)	Methyl Acetate	0.000		0	N.D.	d	
101)	ACETONITRILE	0.000		0	N.D.	d	
102)	ALLYL CHLORIDE	0.000		0	N.D.		
103)	tert-BUTYL ALCOHOL	0.000		0	N.D.	d	
104)	chloroprene	0.000		0	N.D.	d	
105)	ETHYL TERT-BUTYL ETHER	0.000		0	N.D.		
106)	PROPIONITRILE	0.000		0	N.D.	d	
107)	Ethyl Acetate	0.000		0	N.D.	d	
108)	METHACRYLONITRILE	0.000		0	N.D.	d	
109)	Cyclohexane	0.000		0	N.D.	d	
110)	tert-butyl formate	0.000		0	N.D.	d	
111)	ISOBUTANOL	0.000		0	N.D.	d	
112)	t-Amyl Alcohol	0.000		0	N.D.	d	
113)	TERT-AMYL METHYL ETHER	0.000		0	N.D.	d	
115)	N-BUTANOL	0.000		0	N.D.	d	
116)	Methyl Cyclohexane	0.000		0	N.D.	d	
117)	2-nitropropane	0.000		0	N.D.	d	
118)	METHYL METHACRYLATE	0.000		0	N.D.	d	
119)	1,4-DIOXANE	0.000		0	N.D.	d	
120)	n-octane	0.000		0	N.D.	d	
121)	3,3-DIMETHYL-1-BUTANOL	0.000		0	N.D.	d	
123)	ETHYL METHACRYLATE	0.000		0	N.D.	d	
124)	CIS-1,4-DICHLORO-2-BUTENE	0.000		0	N.D.	d	
125)	Cyclohexanone	0.000		0	N.D.	d	
126)	PENTACHLOROETHANE	0.000		0	N.D.	d	
127)	Hexachloroethane	0.000		0	N.D.	d	

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\112414\
Data File : 1124 09.D
Acq On : 24 Nov 2014 7:23 pm
Operator : 644
Sample : MSTD VMS 25 ppb 14K20062
Misc : water IS/SURR14I25028
ALS Vial : 9 Sample Multiplier: 1
InstName : VOCMS7

Quant Time: Nov 25 13:40:38 2014
Quant Method : C:\msdchem\1\methods\V807K24N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS07
QLast Update : Tue Nov 25 13:32:20 2014
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\112414\
Data File : 1124 10.D
Acq On : 24 Nov 2014 7:43 pm
Operator : 644
Sample : STD VMS 40 ppb 14K20062
Misc : water IS/SURR14I25028
ALS Vial : 10 Sample Multiplier: 1
InstName : VOCMS7

Quant Time: Nov 25 13:41:38 2014
Quant Method : C:\msdchem\1\methods\V807K24N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS07
QLast Update : Tue Nov 25 13:32:20 2014
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 8260-PENTAFLUOROBENZENE	4.353	168	371788	40.0000000	ppb	0.00
41) 8260-1,4-DIFLUOROBENZENE	4.681	114	706639	40.0000000	ppb	0.00
53) 8260-2-BROMO-1-CHLOROP...	5.850	79	117791	40.0000000	ppb	0.00
84) 8260-1,4-DICHLOROBENZE...	8.253	152	326516	40.0000000	ppb	0.00
96) AP9-PENTAFLUOROBENZENE	0.000	168	0m	40.0000000	ppb	-4.35
114) AP9-1,4-DIFLUOROBENZENE	0.000	114	0m	40.0000000	ppb	-4.68
122) AP9-2-BROMO-1-CHLOROPR...	0.000	79	0m	40.0000000	ppb	-5.85
128) AP9-1,4-DICHLOROBENZEN...	0.000	152	0m	40.0000000	ppb	-8.25
System Monitoring Compounds						
33) DIBROMOFLUOROMETHANE	4.110	111	224068	46.2958349	ppb	0.00
Spiked Amount 40.000	Range 78 - 121		Recovery = 115.74%			
46) a,a,a-Trifluorotoluene	5.053	146	422058	45.1807117	ppb	0.00
Spiked Amount 40.000	Range 85 - 114		Recovery = 112.95%			
50) TOLUENE-D8	5.515	98	962810	45.3871542	ppb	0.00
Spiked Amount 40.000	Range 89 - 111		Recovery = 113.47%#			
68) 4-BROMOFLUOROBENZENE	7.401	95	377506	45.4905944	ppb	0.00
Spiked Amount 40.000	Range 71 - 126		Recovery = 113.73%			
Target Compounds						Qvalue
2) TPH (GC/MS) LOW FRACTION	4.406	TIC	7689622m	32.6710427	ppm	
3) PROPENE	1.670	41	47591	41.3051112	ppb	96
4) DICHLORODIFLUOROMETHANE	1.707	85	213402	42.3376102	ppb	98
5) CHLOROMETHANE	1.889	50	261521	41.2439601	ppb	99
6) VINYL CHLORIDE	1.950	62	276533	41.7629683	ppb	97
7) 1,3-BUTADIENE	1.962	39	186272	41.1246891	ppb	100
8) BROMOMETHANE	2.205	94	78806	43.3030856	ppb	97
9) CHLOROETHANE	2.285	66	36787	37.4715487	ppb	98
10) TRICHLOROFLUOROMETHANE	2.394	101	254092	40.8639582	ppb	99
11) DICHLOROFLUOROMETHANE	2.431	67	363128	40.9651381	ppb	98
12) ETHYL ETHER	2.601	59	171937	41.4696973	ppb	99
13) ACROLEIN	2.954	56	145871	215.2974686	ppb	99
14) 1,1-DICHLOROETHENE	2.747	61	299819	41.2695336	ppb	100
15) 1,1,2-TRICHLOROTRIFLUO...	2.765	101	188483	40.8443095	ppb	99
16) ACETONE	3.124	43	267197	218.1745642	ppb	100
17) IODOMETHANE	2.850	142	1139554	213.3774999	ppb	99
18) CARBON DISULFIDE	2.783	76	701131	40.7737058	ppb	99
19) METHYLENE CHLORIDE	3.106	84	216661	41.4141061	ppb	100
20) ACRYLONITRILE	3.586	53	383969	214.3352667	ppb	99
21) n-Hexane	3.234	56	197263	39.4774403	ppb	97
22) TRANS-1,2-DICHLOROETHENE	3.203	96	212824	40.8497885	ppb	99
23) METHYL TERT-BUTYL ETHER	3.246	73	569450	41.5686997	ppb	99
24) 1,1-DICHLOROETHANE	3.562	63	380537	41.3585901	ppb	99
25) VINYL ACETATE	3.672	43	1719121	215.2475079	ppb	100
26) DI-ISOPROPYL ETHER	3.453	45	687021	41.4519505	ppb	100
27) 2,2-Dichloropropane	3.927	77	299002	40.4239958	ppb	99
28) CIS-1,2-DICHLOROETHENE	3.860	96	228162	40.7833739	ppb	99
29) 2-BUTANONE (MEK)	4.170	72	136742	213.4605140	ppb	94
30) BROMOCHLOROMETHANE	3.982	130	127156	41.8912311	ppb	98
31) TETRAHYDROFURAN	4.104	42	66744	43.8400862	ppb	97
32) CHLOROFORM	4.006	83	335456	40.5932740	ppb	98
34) 1,1,1-TRICHLOROETHANE	4.140	97	272299	41.4083545	ppb	98
35) CARBON TETRACHLORIDE	4.104	117	216847	41.1587004	ppb	100

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\112414\
Data File : 1124 10.D
Acq On : 24 Nov 2014 7:43 pm
Operator : 644
Sample : STD VMS 40 ppb 14K20062
Misc : water IS/SURR14I25028
ALS Vial : 10 Sample Multiplier: 1
InstName : VOCMS7

Quant Time: Nov 25 13:41:38 2014
Quant Method : C:\msdchem\1\methods\V807K24N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS07
QLast Update : Tue Nov 25 13:32:20 2014
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
36) 1,1-Dichloropropene	4.207	75	293464	41.1135943	ppb		99
37) 2,2,4-TRIMETHYLPENTANE	4.250	57	890041	40.5763543	ppb		100
38) HEPTANE	4.286	43	353071	40.6060227	ppb		98
39) BENZENE	4.353	78	839284	40.6018193	ppb		99
40) 1,2-DICHLOROETHANE	4.462	62	232431	42.2110129	ppb		98
42) TRICHLOROETHENE	4.675	130	205407	40.3630579	ppb		99
43) 1,2-DICHLOROPROPANE	4.992	62	161563	40.3374453	ppb		98
44) DIBROMOMETHANE	4.937	93	120624	40.8817926	ppb		98
45) BROMODICHLOROMETHANE	5.016	83	265554	41.0735683	ppb		97
47) 2-CHLOROETHYL VINYL ETHER	5.332	63	3975	184.0025747	ppb	#	73
48) CIS-1,3-DICHLOROPROPENE	5.393	75	366928	41.0473863	ppb		99
49) 4-METHYL-2-PENTANONE (...	5.764	58	438377	214.4444739	ppb		100
51) TOLUENE	5.551	91	892087	40.1075899	ppb		100
52) TRANS-1,3-DICHLOROPROPENE	5.801	110	78136	39.9558480	ppb		98
54) 1,1,2-TRICHLOROETHANE	5.910	97	183409	39.5305379	ppb		98
55) TETRACHLOROETHENE	5.801	164	148258	38.8988706	ppb		100
56) 1,3-Dichloropropane	6.099	76	319915	40.5044991	ppb		100
57) 2-HEXANONE	6.306	58	452546	211.4400711	ppb		98
58) CHLORODIBROMOMETHANE	6.038	129	184677	41.2199069	ppb		99
59) 1,2-DIBROMOETHANE	6.215	107	189805	40.9876898	ppb		100
60) CHLOROBENZENE	6.555	112	561231	38.7306856	ppb		100
61) 1,1,1,2-TETRACHLOROETHANE	6.592	133	161544	38.6994854	ppb	#	98
62) ETHYLBENZENE	6.555	106	321591	38.9646170	ppb		100
63) M&P-XYLENE	6.653	106	776719	77.8908750	ppb		100
64) O-XYLENE	6.957	106	392516	39.6317927	ppb		99
65) STYRENE	6.993	104	639294	40.1524637	ppb		98
66) Bromoform	7.036	173	111109	40.8661689	ppb		99
67) Isopropylbenzene	7.176	105	992709	39.5658626	ppb		100
69) Bromobenzene	7.492	77	410149	39.3788256	ppb		99
70) 1,1,2,2-TETRACHLOROETHANE	7.529	83	258148	41.2241994	ppb		100
71) 1,2,3-TRICHLOROPROPANE	7.650	110	60471	41.0728774	ppb		87
72) TRANS-1,4-DICHLORO-2-B...	7.662	53	64809	40.4096701	ppb		97
73) n-Propylbenzene	7.480	91	1177083	39.1604278	ppb		100
74) 4-ETHYLTOLUENE	7.559	105	958536	39.5900727	ppb		100
75) 2-Chlorotoluene	7.620	126	211887	39.5544655	ppb		99
76) 4-Chlorotoluene	7.742	91	711862	39.7729914	ppb		100
77) 1,3,5-Trimethylbenzene	7.620	105	782513	39.3083588	ppb		99
78) tert-Butylbenzene	7.869	119	680341	40.2315606	ppb		99
79) 1,2,4-Trimethylbenzene	7.918	105	793594	39.6946468	ppb		100
80) sec-Butylbenzene	8.003	105	1083787	39.5596627	ppb		100
81) 1,3-DICHLOROBENZENE	8.198	146	430011	39.8347593	ppb		100
82) p-Isopropyltoluene	8.107	119	863437	39.9811445	ppb		99
83) DICYCLOPENTADIENE	8.113	66	973464	39.0443893	ppb		99
85) 1,4-DICHLOROBENZENE	8.265	146	418126	40.8855561	ppb	#	62
86) 1,2,3-TRIMETHYLBENZENE	8.265	105	785796	40.8009887	ppb		100
87) 1,2-DICHLOROBENZENE	8.599	146	417720	41.9023677	ppb		99
88) n-Butylbenzene	8.441	91	858827	41.1089831	ppb		100
89) 1,2-Dibromo-3-chloropr...	9.238	157	55736	45.6981614	ppb		98
90) 1,2,4-Trichlorobenzene	9.792	180	267825	42.8012407	ppb		98
91) HEXACHLORO-1,3-BUTADIENE	9.755	225	129181	43.3034222	ppb		99
92) Naphthalene	10.072	128	784701	44.4658231	ppb		99
93) 1,2,3-Trichlorobenzene	10.224	180	239402	44.0485729	ppb		97
94) 1-Methylnaphthalene	10.881	142	350282	45.5460566	ppb		99
95) 2-Methylnaphthalene	11.002	142	283296	45.2757019	ppb		99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\112414\
Data File : 1124 10.D
Acq On : 24 Nov 2014 7:43 pm
Operator : 644
Sample : STD VMS 40 ppb 14K20062
Misc : water IS/SURR14I25028
ALS Vial : 10 Sample Multiplier: 1
InstName : VOCMS7

Quant Time: Nov 25 13:41:38 2014
Quant Method : C:\msdchem\1\methods\V807K24N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS07
QLast Update : Tue Nov 25 13:32:20 2014
Response via : Initial Calibration

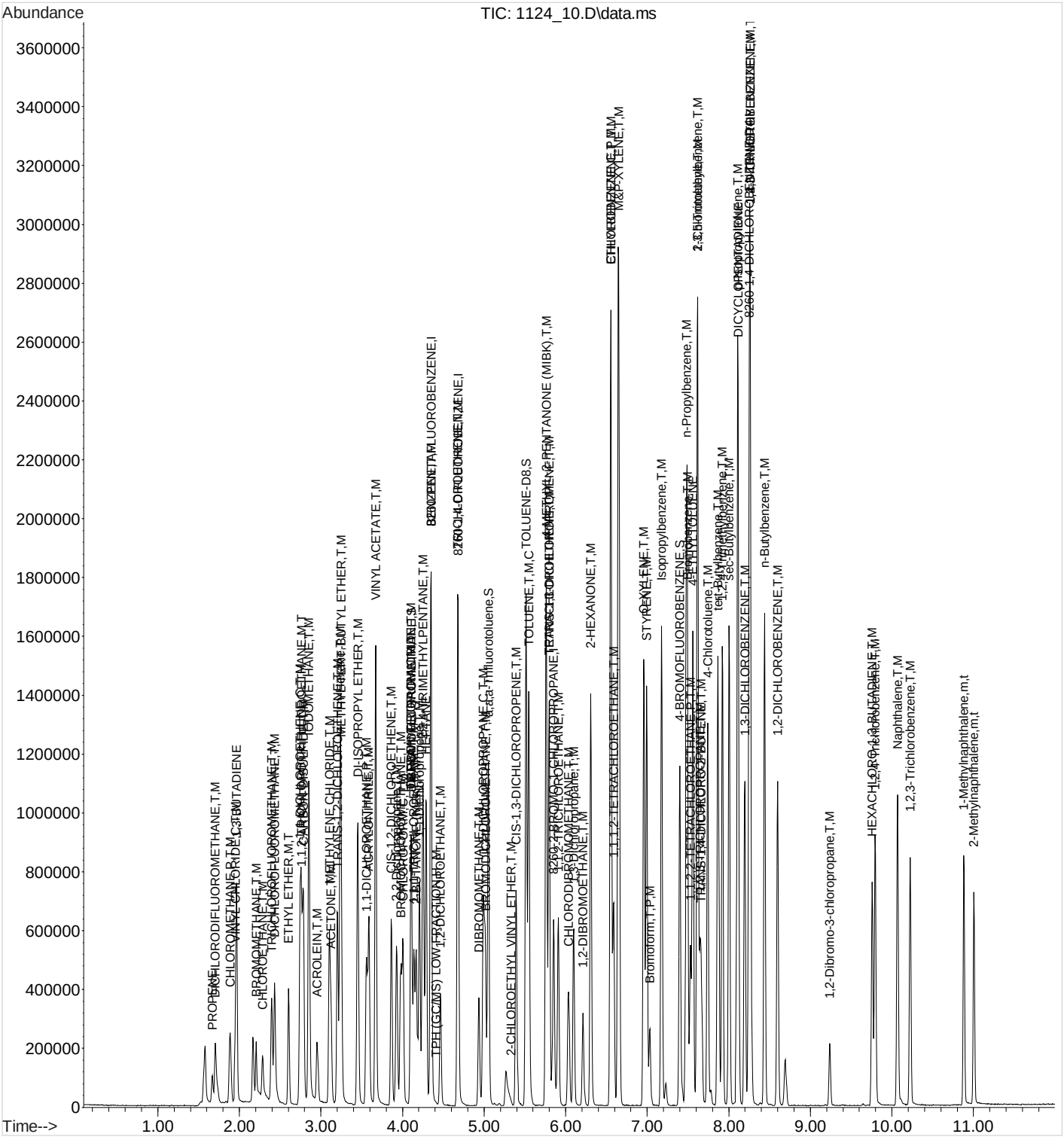
	Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
97)	ETHANOL	0.000		0	N.D.	d
98)	Bromoethane	0.000		0	N.D.	
99)	2-PROPANOL	0.000		0	N.D.	
100)	Methyl Acetate	0.000		0	N.D.	d
101)	ACETONITRILE	0.000		0	N.D.	d
102)	ALLYL CHLORIDE	0.000		0	N.D.	
103)	tert-BUTYL ALCOHOL	0.000		0	N.D.	d
104)	chloroprene	0.000		0	N.D.	d
105)	ETHYL TERT-BUTYL ETHER	0.000		0	N.D.	
106)	PROPIONITRILE	0.000		0	N.D.	d
107)	Ethyl Acetate	0.000		0	N.D.	d
108)	METHACRYLONITRILE	0.000		0	N.D.	d
109)	Cyclohexane	0.000		0	N.D.	d
110)	tert-butyl formate	0.000		0	N.D.	d
111)	ISOBUTANOL	0.000		0	N.D.	d
112)	t-Amyl Alcohol	0.000		0	N.D.	d
113)	TERT-AMYL METHYL ETHER	0.000		0	N.D.	d
115)	N-BUTANOL	0.000		0	N.D.	d
116)	Methyl Cyclohexane	0.000		0	N.D.	d
117)	2-nitropropane	0.000		0	N.D.	d
118)	METHYL METHACRYLATE	0.000		0	N.D.	d
119)	1,4-DIOXANE	0.000		0	N.D.	d
120)	n-octane	0.000		0	N.D.	d
121)	3,3-DIMETHYL-1-BUTANOL	0.000		0	N.D.	d
123)	ETHYL METHACRYLATE	0.000		0	N.D.	d
124)	CIS-1,4-DICHLORO-2-BUTENE	0.000		0	N.D.	d
125)	Cyclohexanone	0.000		0	N.D.	d
126)	PENTACHLOROETHANE	0.000		0	N.D.	d
127)	Hexachloroethane	0.000		0	N.D.	d

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\112414\
Data File : 1124 10.D
Acq On : 24 Nov 2014 7:43 pm
Operator : 644
Sample : STD VMS 40 ppb 14K20062
Misc : water IS/SURR14I25028
ALS Vial : 10 Sample Multiplier: 1
InstName : VOCMS7

Quant Time: Nov 25 13:41:38 2014
Quant Method : C:\msdchem\1\methods\V807K24N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS07
QLast Update : Tue Nov 25 13:32:20 2014
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\112414\
Data File : 1124 11.D
Acq On : 24 Nov 2014 8:02 pm
Operator : 644
Sample : STD VMS 75 ppb 14K20062
Misc : water IS/SURR14I25028
ALS Vial : 11 Sample Multiplier: 1
InstName : VOCMS7

Quant Time: Nov 25 13:42:39 2014
Quant Method : C:\msdchem\1\methods\V807K24N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS07
QLast Update : Tue Nov 25 13:32:20 2014
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 8260-PENTAFLUOROBENZENE	4.347	168	381656	40.0000000	ppb	0.00
41) 8260-1,4-DIFLUOROBENZENE	4.682	114	728967	40.0000000	ppb	0.00
53) 8260-2-BROMO-1-CHLOROP...	5.850	79	120452	40.0000000	ppb	0.00
84) 8260-1,4-DICHLOROBENZE...	8.253	152	343996	40.0000000	ppb	0.00
96) AP9-PENTAFLUOROBENZENE	0.000	168	0m	40.0000000	ppb	-4.35
114) AP9-1,4-DIFLUOROBENZENE	0.000	114	0m	40.0000000	ppb	-4.68
122) AP9-2-BROMO-1-CHLOROPR...	0.000	79	0m	40.0000000	ppb	-5.85
128) AP9-1,4-DICHLOROBENZEN...	0.000	152	0m	40.0000000	ppb	-8.25
System Monitoring Compounds						
33) DIBROMOFLUOROMETHANE	4.110	111	230753	46.4443311	ppb	0.00
Spiked Amount 40.000	Range 78 - 121		Recovery = 116.11%			
46) a,a,a-Trifluorotoluene	5.053	146	433274	44.9607238	ppb	0.00
Spiked Amount 40.000	Range 85 - 114		Recovery = 112.40%			
50) TOLUENE-D8	5.515	98	999917	45.6926186	ppb	0.00
Spiked Amount 40.000	Range 89 - 111		Recovery = 114.23%#			
68) 4-BROMOFLUOROBENZENE	7.401	95	400608	47.2079851	ppb	0.00
Spiked Amount 40.000	Range 71 - 126		Recovery = 118.02%			
Target Compounds						Qvalue
2) TPH (GC/MS) LOW FRACTION	4.406	TIC	20199897m	83.6046513	ppm	
3) PROPENE	1.670	41	85790	72.5335456	ppb	98
4) DICHLORODIFLUOROMETHANE	1.707	85	400357	77.3746245	ppb	98
5) CHLOROMETHANE	1.883	50	480514	73.8215414	ppb	99
6) VINYL CHLORIDE	1.950	62	502379	73.9093095	ppb	97
7) 1,3-BUTADIENE	1.962	39	335888	72.2391807	ppb	99
8) BROMOMETHANE	2.206	94	150217	80.4084920	ppb	98
9) CHLOROETHANE	2.285	66	56702	56.2637821	ppb	89
10) TRICHLOROFLUOROMETHANE	2.388	101	457861	71.7309142	ppb	99
11) DICHLOROFLUOROMETHANE	2.431	67	654559	71.9327656	ppb	99
12) ETHYL ETHER	2.601	59	306640	72.0466183	ppb	99
13) ACROLEIN	2.954	56	252815	363.4930195	ppb	99
14) 1,1-DICHLOROETHENE	2.747	61	527487	70.7302910	ppb	99
15) 1,1,2-TRICHLOROTRIFLUO...	2.759	101	334222	70.5533566	ppb	99
16) ACETONE	3.124	43	451394	359.0472422	ppb	100
17) IODOMETHANE	2.850	142	2178417	397.3543792	ppb	98
18) CARBON DISULFIDE	2.784	76	1246883	70.6366335	ppb	99
19) METHYLENE CHLORIDE	3.106	84	393688	73.3065869	ppb	99
20) ACRYLONITRILE	3.587	53	668749	363.6502517	ppb	100
21) n-Hexane	3.234	56	350443	68.3193955	ppb	98
22) TRANS-1,2-DICHLOROETHENE	3.197	96	382670	71.5511967	ppb	100
23) METHYL TERT-BUTYL ETHER	3.246	73	1003594	71.3661343	ppb	99
24) 1,1-DICHLOROETHANE	3.556	63	677385	71.7179198	ppb	100
25) VINYL ACETATE	3.672	43	2851252	347.7687571	ppb	100
26) DI-ISOPROPYL ETHER	3.453	45	1224423	71.9663889	ppb	100
27) 2,2-Dichloropropane	3.927	77	533000	70.1965276	ppb	99
28) CIS-1,2-DICHLOROETHENE	3.860	96	410355	71.4533901	ppb	98
29) 2-BUTANONE (MEK)	4.171	72	236226	359.2250329	ppb	98
30) BROMOCHLOROMETHANE	3.982	130	223126	71.6076992	ppb	99
31) TETRAHYDROFURAN	4.104	42	113284	72.4854799	ppb	97
32) CHLOROFORM	4.000	83	605929	71.4271841	ppb	98
34) 1,1,1-TRICHLOROETHANE	4.140	97	489177	72.4654895	ppb	98
35) CARBON TETRACHLORIDE	4.104	117	396646	73.3389332	ppb	100

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\112414\
Data File : 1124 11.D
Acq On : 24 Nov 2014 8:02 pm
Operator : 644
Sample : STD VMS 75 ppb 14K20062
Misc : water IS/SURR14I25028
ALS Vial : 11 Sample Multiplier: 1
InstName : VOCMS7

Quant Time: Nov 25 13:42:39 2014
Quant Method : C:\msdchem\1\methods\V807K24N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS07
QLast Update : Tue Nov 25 13:32:20 2014
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units		Dev(Min)
36) 1,1-Dichloropropene	4.207	75	523793	71.4847788 ppb		99
37) 2,2,4-TRIMETHYLPENTANE	4.250	57	1585469	70.4115720 ppb		99
38) HEPTANE	4.286	43	631913	70.7960406 ppb		99
39) BENZENE	4.353	78	1522930	71.7694745 ppb		98
40) 1,2-DICHLOROETHANE	4.463	62	415676	73.5376838 ppb		100
42) TRICHLOROETHENE	4.676	130	374474	71.3313142 ppb		99
43) 1,2-DICHLOROPROPANE	4.992	62	289564	70.0810793 ppb		98
44) DIBROMOMETHANE	4.937	93	221159	72.6591908 ppb		97
45) BROMODICHLOROMETHANE	5.016	83	473150	70.9411403 ppb		97
47) 2-CHLOROETHYL VINYL ETHER	5.327	63	6965	312.5342531 ppb	#	89
48) CIS-1,3-DICHLOROPROPENE	5.393	75	654775	71.0045990 ppb		99
49) 4-METHYL-2-PENTANONE (...	5.765	58	753624	357.3646199 ppb		98
51) TOLUENE	5.546	91	1625595	70.8469966 ppb		100
52) TRANS-1,3-DICHLOROPROPENE	5.801	110	137473	68.1453650 ppb		95
54) 1,1,2-TRICHLOROETHANE	5.911	97	330384	69.6352568 ppb		99
55) TETRACHLOROETHENE	5.801	164	267922	68.7425003 ppb		99
56) 1,3-Dichloropropane	6.099	76	570412	70.6245037 ppb		100
57) 2-HEXANONE	6.306	58	780445	356.5865527 ppb		96
58) CHLORODIBROMOMETHANE	6.038	129	334967	73.1129508 ppb		100
59) 1,2-DIBROMOETHANE	6.215	107	341099	72.0318106 ppb		100
60) CHLOROBENZENE	6.555	112	1015092	68.5041737 ppb		99
61) 1,1,1,2-TETRACHLOROETHANE	6.592	133	294597	69.0145675 ppb	#	99
62) ETHYLBENZENE	6.555	106	586017	69.4344234 ppb		98
63) M&P-XYLENE	6.647	106	1411914	138.4614871 ppb		98
64) O-XYLENE	6.957	106	715543	70.6513044 ppb		99
65) STYRENE	6.993	104	1158834	71.1755599 ppb		99
66) Bromoform	7.036	173	202459	72.8198646 ppb		98
67) Isopropylbenzene	7.176	105	1795872	69.9958274 ppb		99
69) Bromobenzene	7.492	77	741118	69.5835461 ppb		99
70) 1,1,2,2-TETRACHLOROETHANE	7.529	83	455256	71.0947017 ppb		99
71) 1,2,3-TRICHLOROPROPANE	7.650	110	107476	71.3867427 ppb		86
72) TRANS-1,4-DICHLORO-2-B...	7.663	53	118284	72.1230494 ppb		98
73) n-Propylbenzene	7.480	91	2153295	70.0554562 ppb		99
74) 4-ETHYLTOLUENE	7.559	105	1740575	70.3021660 ppb		100
75) 2-Chlorotoluene	7.620	126	384003	70.1009524 ppb		99
76) 4-Chlorotoluene	7.742	91	1296967	70.8629887 ppb		100
77) 1,3,5-Trimethylbenzene	7.620	105	1416391	69.5784264 ppb		99
78) tert-Butylbenzene	7.869	119	1243086	71.8852031 ppb		99
79) 1,2,4-Trimethylbenzene	7.918	105	1454558	71.1480010 ppb		100
80) sec-Butylbenzene	8.003	105	1980713	70.7014447 ppb		100
81) 1,3-DICHLOROBENZENE	8.198	146	795319	72.0480254 ppb		100
82) p-Isopropyltoluene	8.107	119	1570249	71.1035339 ppb		99
83) DICYCLOPENTADIENE	8.113	66	1745262	68.4537847 ppb		99
85) 1,4-DICHLOROBENZENE	8.265	146	769705	71.4394525 ppb	#	36
86) 1,2,3-TRIMETHYLBENZENE	8.265	105	1426382	70.2987817 ppb		99
87) 1,2-DICHLOROBENZENE	8.599	146	759374	72.3036285 ppb		99
88) n-Butylbenzene	8.441	91	1559320	70.8463318 ppb		99
89) 1,2-Dibromo-3-chloropr...	9.238	157	97442	75.8333416 ppb		98
90) 1,2,4-Trichlorobenzene	9.798	180	472714	71.7058824 ppb		100
91) HEXACHLORO-1,3-BUTADIENE	9.755	225	232231	73.8915615 ppb		99
92) Naphthalene	10.072	128	1380322	74.2426755 ppb		100
93) 1,2,3-Trichlorobenzene	10.224	180	420376	73.4163952 ppb		99
94) 1-Methylnaphthalene	10.881	142	609874	75.2703880 ppb		99
95) 2-Methylnaphthalene	11.003	142	493241	74.8229788 ppb		98

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\112414\
Data File : 1124 11.D
Acq On : 24 Nov 2014 8:02 pm
Operator : 644
Sample : STD VMS 75 ppb 14K20062
Misc : water IS/SURR14I25028
ALS Vial : 11 Sample Multiplier: 1
InstName : VOCMS7

Quant Time: Nov 25 13:42:39 2014
Quant Method : C:\msdchem\1\methods\V807K24N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS07
QLast Update : Tue Nov 25 13:32:20 2014
Response via : Initial Calibration

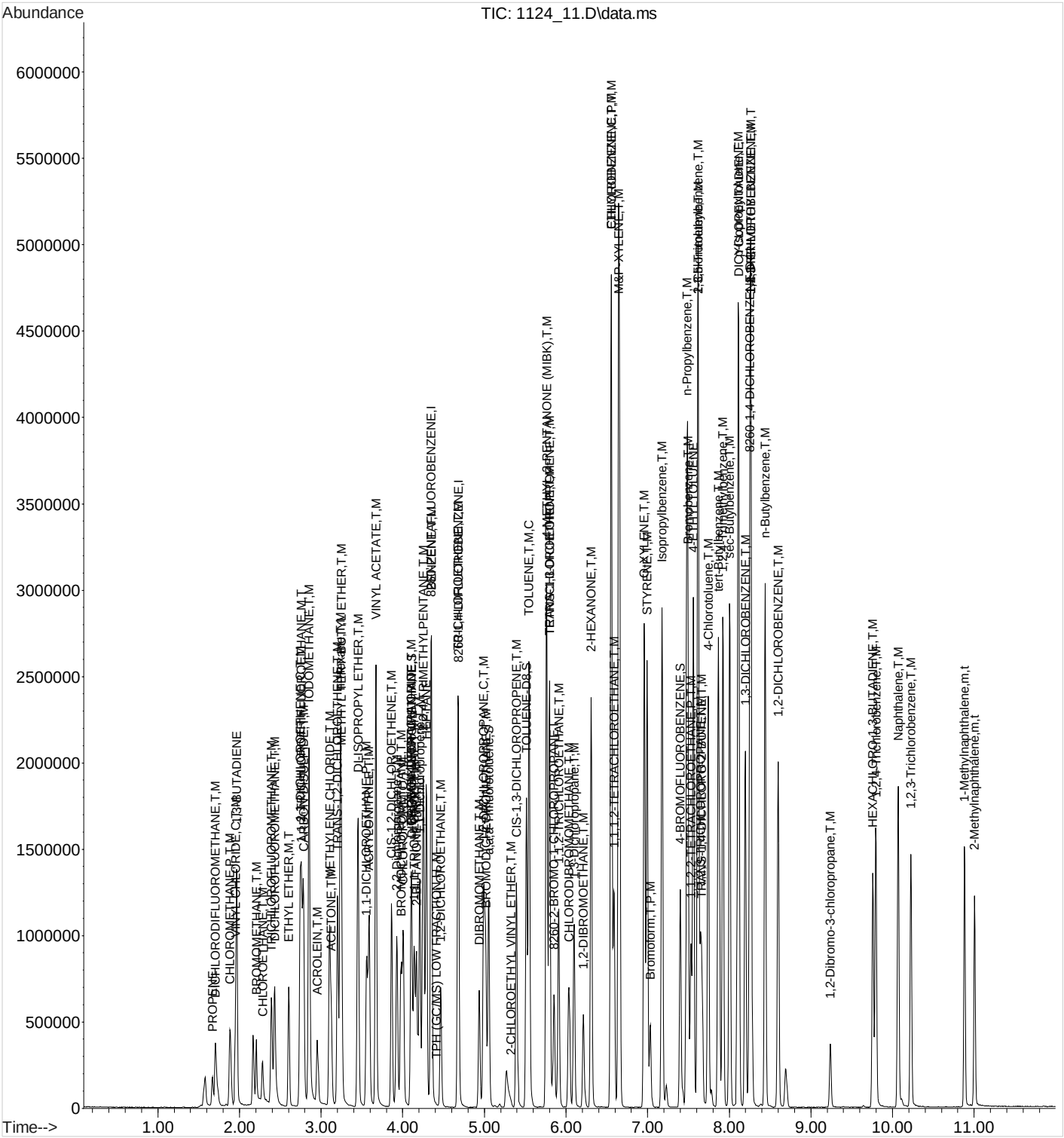
	Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
97)	ETHANOL	0.000		0	N.D. d	
98)	Bromoethane	0.000		0	N.D. d	
99)	2-PROPANOL	0.000		0	N.D. d	
100)	Methyl Acetate	0.000		0	N.D. d	
101)	ACETONITRILE	0.000		0	N.D. d	
102)	ALLYL CHLORIDE	0.000		0	N.D.	
103)	tert-BUTYL ALCOHOL	0.000		0	N.D. d	
104)	chloroprene	0.000		0	N.D. d	
105)	ETHYL TERT-BUTYL ETHER	0.000		0	N.D.	
106)	PROPIONITRILE	0.000		0	N.D. d	
107)	Ethyl Acetate	0.000		0	N.D. d	
108)	METHACRYLONITRILE	0.000		0	N.D. d	
109)	Cyclohexane	0.000		0	N.D. d	
110)	tert-butyl formate	0.000		0	N.D. d	
111)	ISOBUTANOL	0.000		0	N.D. d	
112)	t-Amyl Alcohol	0.000		0	N.D. d	
113)	TERT-AMYL METHYL ETHER	0.000		0	N.D. d	
115)	N-BUTANOL	0.000		0	N.D. d	
116)	Methyl Cyclohexane	0.000		0	N.D. d	
117)	2-nitropropane	0.000		0	N.D. d	
118)	METHYL METHACRYLATE	0.000		0	N.D. d	
119)	1,4-DIOXANE	0.000		0	N.D. d	
120)	n-octane	0.000		0	N.D. d	
121)	3,3-DIMETHYL-1-BUTANOL	0.000		0	N.D. d	
123)	ETHYL METHACRYLATE	0.000		0	N.D. d	
124)	CIS-1,4-DICHLORO-2-BUTENE	0.000		0	N.D. d	
125)	Cyclohexanone	0.000		0	N.D. d	
126)	PENTACHLOROETHANE	0.000		0	N.D. d	
127)	Hexachloroethane	0.000		0	N.D. d	

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\112414\
Data File : 1124 11.D
Acq On : 24 Nov 2014 8:02 pm
Operator : 644
Sample : STD VMS 75 ppb 14K20062
Misc : water IS/SURR14I25028
ALS Vial : 11 Sample Multiplier: 1
InstName : VOCMS7

Quant Time: Nov 25 13:42:39 2014
Quant Method : C:\msdchem\1\methods\V807K24N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS07
QLast Update : Tue Nov 25 13:32:20 2014
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\112414\
Data File : 1124 12.D
Acq On : 24 Nov 2014 8:21 pm
Operator : 644
Sample : STD VMS 100 ppb 14K20062
Misc : water IS/SURR14I25028
ALS Vial : 12 Sample Multiplier: 1
InstName : VOCMS7

Quant Time: Nov 25 13:43:41 2014
Quant Method : C:\msdchem\1\methods\V807K24N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS07
QLast Update : Tue Nov 25 13:32:20 2014
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 8260-PENTAFLUOROBENZENE	4.347	168	363396	40.0000000	ppb	0.00
41) 8260-1,4-DIFLUOROBENZENE	4.682	114	691267	40.0000000	ppb	0.00
53) 8260-2-BROMO-1-CHLOROP...	5.850	79	115429	40.0000000	ppb	0.00
84) 8260-1,4-DICHLOROBENZE...	8.253	152	326893	40.0000000	ppb	# 0.00
96) AP9-PENTAFLUOROBENZENE	0.000	168	0m	40.0000000	ppb	-4.35
114) AP9-1,4-DIFLUOROBENZENE	0.000	114	0m	40.0000000	ppb	-4.68
122) AP9-2-BROMO-1-CHLOROPR...	0.000	79	0m	40.0000000	ppb	-5.85
128) AP9-1,4-DICHLOROBENZEN...	0.000	152	0m	40.0000000	ppb	-8.25
System Monitoring Compounds						
33) DIBROMOFLUOROMETHANE	4.110	111	224654	47.4888293	ppb	0.00
Spiked Amount 40.000	Range 78 - 121		Recovery = 118.72%			
46) a,a,a-Trifluorotoluene	5.053	146	424712	46.4758393	ppb	0.00
Spiked Amount 40.000	Range 85 - 114		Recovery = 116.19%#			
50) TOLUENE-D8	5.515	98	983761	47.4060468	ppb	0.00
Spiked Amount 40.000	Range 89 - 111		Recovery = 118.52%#			
68) 4-BROMOFLUOROBENZENE	7.401	95	391088	48.0916214	ppb	0.00
Spiked Amount 40.000	Range 71 - 126		Recovery = 120.23%			
Target Compounds						Qvalue
2) TPH (GC/MS) LOW FRACTION	4.406	TIC	30494785m	132.5558252	ppm	
3) PROPENE	1.670	41	118079	104.8496192	ppb	94
4) DICHLORODIFLUOROMETHANE	1.707	85	522181	105.9898178	ppb	98
5) CHLOROMETHANE	1.883	50	636122	102.6382954	ppb	99
6) VINYL CHLORIDE	1.950	62	659230	101.8583372	ppb	97
7) 1,3-BUTADIENE	1.962	39	432460	97.6823770	ppb	100
8) BROMOMETHANE	2.206	94	199451	112.1272065	ppb	98
9) CHLOROETHANE	2.279	66	68186	71.0587741	ppb	93
10) TRICHLOROFLUOROMETHANE	2.388	101	595608	97.9997995	ppb	99
11) DICHLOROFLUOROMETHANE	2.425	67	856320	98.8339149	ppb	98
12) ETHYL ETHER	2.601	59	395665	97.6347415	ppb	99
13) ACROLEIN	2.954	56	339105	512.0582672	ppb	100
14) 1,1-DICHLOROETHENE	2.747	61	684918	96.4548823	ppb	97
15) 1,1,2-TRICHLOROTRIFLUO...	2.759	101	437700	97.0400798	ppb	99
16) ACETONE	3.124	43	585565	489.1734476	ppb	99
17) IODOMETHANE	2.851	142	2927653	560.8523431	ppb	98
18) CARBON DISULFIDE	2.784	76	1627672	96.8418625	ppb	99
19) METHYLENE CHLORIDE	3.106	84	512778	100.2794996	ppb	99
20) ACRYLONITRILE	3.587	53	876100	500.3413303	ppb	99
21) n-Hexane	3.234	56	453595	92.8724357	ppb	97
22) TRANS-1,2-DICHLOROETHENE	3.197	96	502537	98.6853032	ppb	99
23) METHYL TERT-BUTYL ETHER	3.246	73	1307182	97.6252429	ppb	99
24) 1,1-DICHLOROETHANE	3.556	63	887513	98.6867357	ppb	100
25) VINYL ACETATE	3.672	43	4026550	515.7984211	ppb	100
26) DI-ISOPROPYL ETHER	3.453	45	1604339	99.0344571	ppb	100
27) 2,2-Dichloropropane	3.927	77	706079	97.6638109	ppb	99
28) CIS-1,2-DICHLOROETHENE	3.860	96	540184	98.7863132	ppb	99
29) 2-BUTANONE (MEK)	4.171	72	311578	497.6197791	ppb	98
30) BROMOCHLOROMETHANE	3.982	130	291951	98.4037070	ppb	99
31) TETRAHYDROFURAN	4.104	42	149763	100.6419229	ppb	97
32) CHLOROFORM	4.000	83	797864	98.7785421	ppb	98
34) 1,1,1-TRICHLOROETHANE	4.140	97	640944	99.7188448	ppb	98
35) CARBON TETRACHLORIDE	4.104	117	524514	101.8545761	ppb	100

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\112414\
Data File : 1124 12.D
Acq On : 24 Nov 2014 8:21 pm
Operator : 644
Sample : STD VMS 100 ppb 14K20062
Misc : water IS/SURR14I25028
ALS Vial : 12 Sample Multiplier: 1
InstName : VOCMS7

Quant Time: Nov 25 13:43:41 2014
Quant Method : C:\msdchem\1\methods\V807K24N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS07
QLast Update : Tue Nov 25 13:32:20 2014
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
36) 1,1-Dichloropropene	4.207	75	683777	98.0077294	ppb		100
37) 2,2,4-TRIMETHYLPENTANE	4.250	57	2073386	96.7071086	ppb		99
38) HEPTANE	4.286	43	815802	95.9905316	ppb		98
39) BENZENE	4.353	78	1986332	98.3113400	ppb		98
40) 1,2-DICHLOROETHANE	4.463	62	550586	102.2991705	ppb		100
42) TRICHLOROETHENE	4.676	130	494551	99.3417220	ppb		99
43) 1,2-DICHLOROPROPANE	4.992	62	377612	96.3749233	ppb		99
44) DIBROMOMETHANE	4.937	93	293101	101.5465758	ppb		99
45) BROMODICHLOROMETHANE	5.016	83	625488	98.8963690	ppb		97
47) 2-CHLOROETHYL VINYL ETHER	5.327	63	7681	363.4597387	ppb	#	84
48) CIS-1,3-DICHLOROPROPENE	5.393	75	868249	99.2889059	ppb		99
49) 4-METHYL-2-PENTANONE (...	5.765	58	992803	496.4573649	ppb		98
51) TOLUENE	5.546	91	2132412	98.0036500	ppb		100
52) TRANS-1,3-DICHLOROPROPENE	5.801	110	180657	94.4356012	ppb		96
54) 1,1,2-TRICHLOROETHANE	5.911	97	434044	95.4647443	ppb		99
55) TETRACHLOROETHENE	5.801	164	350058	93.7251269	ppb		99
56) 1,3-Dichloropropane	6.099	76	754348	97.4625076	ppb		100
57) 2-HEXANONE	6.306	58	1029648	490.9197691	ppb		97
58) CHLORODIBROMOMETHANE	6.038	129	451055	102.7355788	ppb		99
59) 1,2-DIBROMOETHANE	6.215	107	455885	100.4611789	ppb		100
60) CHLOROBENZENE	6.555	112	1330965	93.7297253	ppb		99
61) 1,1,1,2-TETRACHLOROETHANE	6.592	133	393831	96.2767522	ppb	#	100
62) ETHYLBENZENE	6.555	106	763232	94.3670268	ppb		98
63) M&P-XYLENE	6.647	106	1854547	189.7831599	ppb		97
64) O-XYLENE	6.957	106	949000	97.7799344	ppb		98
65) STYRENE	6.993	104	1543430	98.9226366	ppb		98
66) Bromoform	7.036	173	271211	101.7932926	ppb		99
67) Isopropylbenzene	7.176	105	2381141	96.8458394	ppb		99
69) Bromobenzene	7.492	77	973173	95.3472847	ppb		98
70) 1,1,2,2-TETRACHLOROETHANE	7.529	83	608138	99.1020828	ppb		100
71) 1,2,3-TRICHLOROPROPANE	7.650	110	144755	100.3318285	ppb		89
72) TRANS-1,4-DICHLORO-2-B...	7.663	53	153707	97.8004396	ppb		97
73) n-Propylbenzene	7.480	91	2814150	95.5398948	ppb		99
74) 4-ETHYLTOLUENE	7.559	105	2293122	96.6500776	ppb		99
75) 2-Chlorotoluene	7.620	126	505848	96.3625803	ppb		97
76) 4-Chlorotoluene	7.742	91	1718694	97.9914496	ppb		100
77) 1,3,5-Trimethylbenzene	7.620	105	1861039	95.3994784	ppb		100
78) tert-Butylbenzene	7.869	119	1636695	98.7654772	ppb		100
79) 1,2,4-Trimethylbenzene	7.918	105	1911610	97.5730848	ppb		99
80) sec-Butylbenzene	8.003	105	2619874	97.5857094	ppb		100
81) 1,3-DICHLOROBENZENE	8.198	146	1051002	99.3535409	ppb		100
82) p-Isopropyltoluene	8.107	119	2051448	96.9353662	ppb		99
83) DICYCLOPENTADIENE	8.113	66	2286935	93.6029929	ppb		98
85) 1,4-DICHLOROBENZENE	8.265	146	1015563	99.1901282	ppb	#	27
86) 1,2,3-TRIMETHYLBENZENE	8.265	105	1880756	97.5421169	ppb		99
87) 1,2-DICHLOROBENZENE	8.600	146	1009708	101.1691121	ppb		99
88) n-Butylbenzene	8.441	91	2049685	97.9979552	ppb		99
89) 1,2-Dibromo-3-chloropr...	9.238	157	129535	106.0837603	ppb		97
90) 1,2,4-Trichlorobenzene	9.798	180	619320	98.8596792	ppb		99
91) HEXACHLORO-1,3-BUTADIENE	9.761	225	300384	100.5771257	ppb		99
92) Naphthalene	10.072	128	1812757	102.6031200	ppb		99
93) 1,2,3-Trichlorobenzene	10.224	180	550520	101.1756531	ppb		99
94) 1-Methylnaphthalene	10.887	142	808768	105.0402549	ppb		98
95) 2-Methylnaphthalene	11.003	142	647580	103.3753573	ppb		99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\112414\
Data File : 1124 12.D
Acq On : 24 Nov 2014 8:21 pm
Operator : 644
Sample : STD VMS 100 ppb 14K20062
Misc : water IS/SURR14I25028
ALS Vial : 12 Sample Multiplier: 1
InstName : VOCMS7

Quant Time: Nov 25 13:43:41 2014
Quant Method : C:\msdchem\1\methods\V807K24N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS07
QLast Update : Tue Nov 25 13:32:20 2014
Response via : Initial Calibration

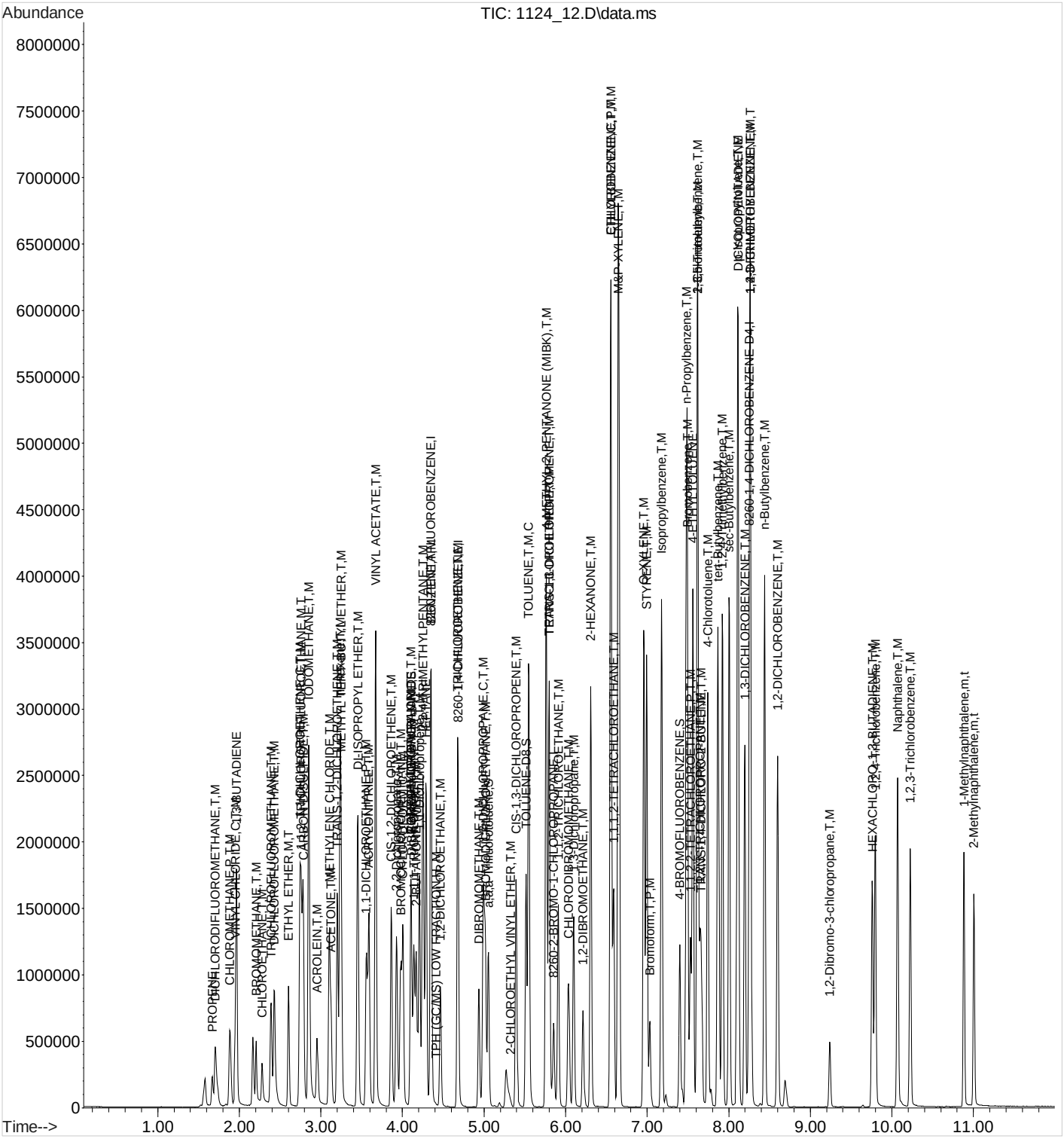
	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
97)	ETHANOL	0.000		0	N.D.	d	
98)	Bromoethane	0.000		0	N.D.	d	
99)	2-PROPANOL	0.000		0	N.D.	d	
100)	Methyl Acetate	0.000		0	N.D.	d	
101)	ACETONITRILE	0.000		0	N.D.	d	
102)	ALLYL CHLORIDE	0.000		0	N.D.		
103)	tert-BUTYL ALCOHOL	0.000		0	N.D.	d	
104)	chloroprene	0.000		0	N.D.	d	
105)	ETHYL TERT-BUTYL ETHER	0.000		0	N.D.		
106)	PROPIONITRILE	0.000		0	N.D.	d	
107)	Ethyl Acetate	0.000		0	N.D.	d	
108)	METHACRYLONITRILE	0.000		0	N.D.	d	
109)	Cyclohexane	0.000		0	N.D.	d	
110)	tert-butyl formate	0.000		0	N.D.	d	
111)	ISOBUTANOL	0.000		0	N.D.	d	
112)	t-Amyl Alcohol	0.000		0	N.D.	d	
113)	TERT-AMYL METHYL ETHER	0.000		0	N.D.	d	
115)	N-BUTANOL	0.000		0	N.D.	d	
116)	Methyl Cyclohexane	0.000		0	N.D.	d	
117)	2-nitropropane	0.000		0	N.D.	d	
118)	METHYL METHACRYLATE	0.000		0	N.D.	d	
119)	1,4-DIOXANE	0.000		0	N.D.	d	
120)	n-octane	0.000		0	N.D.	d	
121)	3,3-DIMETHYL-1-BUTANOL	0.000		0	N.D.	d	
123)	ETHYL METHACRYLATE	0.000		0	N.D.	d	
124)	CIS-1,4-DICHLORO-2-BUTENE	0.000		0	N.D.	d	
125)	Cyclohexanone	0.000		0	N.D.	d	
126)	PENTACHLOROETHANE	0.000		0	N.D.	d	
127)	Hexachloroethane	0.000		0	N.D.	d	

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\112414\
Data File : 1124 12.D
Acq On : 24 Nov 2014 8:21 pm
Operator : 644
Sample : STD VMS 100 ppb 14K20062
Misc : water IS/SURR14I25028
ALS Vial : 12 Sample Multiplier: 1
InstName : VOCMS7

Quant Time: Nov 25 13:43:41 2014
Quant Method : C:\msdchem\1\methods\V807K24N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS07
QLast Update : Tue Nov 25 13:32:20 2014
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\112414\
Data File : 1124 13.D
Acq On : 24 Nov 2014 8:40 pm
Operator : 644
Sample : STD VMS 200 ppb 14K20062
Misc : water IS/SURR14I25028
ALS Vial : 13 Sample Multiplier: 1
InstName : VOCMS7

Quant Time: Nov 25 13:44:41 2014
Quant Method : C:\msdchem\1\methods\V807K24N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS07
QLast Update : Tue Nov 25 13:32:20 2014
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 8260-PENTAFLUOROBENZENE	4.347	168	341262	40.0000000	ppb	0.00
41) 8260-1,4-DIFLUOROBENZENE	4.682	114	654561	40.0000000	ppb	0.00
53) 8260-2-BROMO-1-CHLOROP...	5.850	79	113962	40.0000000	ppb	0.00
84) 8260-1,4-DICHLOROBENZE...	8.253	152	318062	40.0000000	ppb	# 0.00
96) AP9-PENTAFLUOROBENZENE	0.000	168	0m	40.0000000	ppb	-4.35
114) AP9-1,4-DIFLUOROBENZENE	0.000	114	0m	40.0000000	ppb	-4.68
122) AP9-2-BROMO-1-CHLOROPR...	0.000	79	0m	40.0000000	ppb	-5.85
128) AP9-1,4-DICHLOROBENZEN...	0.000	152	0m	40.0000000	ppb	-8.25
System Monitoring Compounds						
33) DIBROMOFLUOROMETHANE	4.110	111	212548	47.8438964	ppb	0.00
Spiked Amount 40.000	Range 78 - 121		Recovery = 119.61%			
46) a,a,a-Trifluorotoluene	5.053	146	412781	47.7032652	ppb	0.00
Spiked Amount 40.000	Range 85 - 114		Recovery = 119.26%#			
50) TOLUENE-D8	5.515	98	982196	49.9848047	ppb	0.00
Spiked Amount 40.000	Range 89 - 111		Recovery = 124.96%#			
68) 4-BROMOFLUOROBENZENE	7.401	95	392803	48.9242972	ppb	0.00
Spiked Amount 40.000	Range 71 - 126		Recovery = 122.31%			
Target Compounds						Qvalue
2) TPH (GC/MS) LOW FRACTION	4.406	TIC	66450803m	307.5853735	ppm	
3) PROPENE	1.670	41	229999	217.4765073	ppb	93
4) DICHLORODIFLUOROMETHANE	1.707	85	1005338	217.2938272	ppb	99
5) CHLOROMETHANE	1.883	50	1219133	209.4654085	ppb	99
6) VINYL CHLORIDE	1.950	62	1249730	205.6212645	ppb	97
7) 1,3-BUTADIENE	1.962	39	785335	188.8936851	ppb	100
8) BROMOMETHANE	2.200	94	395363	236.6807947	ppb	97
9) CHLOROETHANE	2.273	66	72580	80.5437177	ppb #	87
10) TRICHLOROFLUOROMETHANE	2.376	101	1086884	190.4320626	ppb	99
11) DICHLOROFLUOROMETHANE	2.419	67	1582607	194.5069860	ppb	98
12) ETHYL ETHER	2.601	59	750819	197.2896086	ppb	98
13) ACROLEIN	2.954	56	662019	1064.5053629	ppb	99
14) 1,1-DICHLOROETHENE	2.741	61	1263441	189.4666658	ppb	98
15) 1,1,2-TRICHLOROTRIFLUO...	2.759	101	802836	189.5368453	ppb	99
16) ACETONE	3.124	43	1165980	1037.2204646	ppb	100
17) IODOMETHANE	2.844	142	5605989	1143.5980077	ppb	98
18) CARBON DISULFIDE	2.778	76	3018311	191.2284207	ppb	99
19) METHYLENE CHLORIDE	3.100	84	973739	202.7764658	ppb	99
20) ACRYLONITRILE	3.587	53	1713764	1042.2116540	ppb	100
21) n-Hexane	3.228	56	836370	182.3514557	ppb	96
22) TRANS-1,2-DICHLOROETHENE	3.197	96	940953	196.7635181	ppb	99
23) METHYL TERT-BUTYL ETHER	3.246	73	2489934	198.0186589	ppb	97
24) 1,1-DICHLOROETHANE	3.556	63	1679991	198.9221877	ppb	100
25) VINYL ACETATE	3.672	43	7109895	969.8449528	ppb	99
26) DI-ISOPROPYL ETHER	3.453	45	3000281	197.2169903	ppb	99
27) 2,2-Dichloropropane	3.927	77	1314635	193.6322862	ppb	100
28) CIS-1,2-DICHLOROETHENE	3.860	96	1024153	199.4399302	ppb	99
29) 2-BUTANONE (MEK)	4.171	72	613866	1043.9907234	ppb	98
30) BROMOCHLOROMETHANE	3.982	130	539921	193.7866800	ppb	98
31) TETRAHYDROFURAN	4.104	42	283130	202.6060896	ppb	98
32) CHLOROFORM	4.000	83	1491520	196.6323793	ppb	98
34) 1,1,1-TRICHLOROETHANE	4.140	97	1212426	200.8651550	ppb	98
35) CARBON TETRACHLORIDE	4.104	117	959273	198.3617326	ppb	98

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\112414\
Data File : 1124 13.D
Acq On : 24 Nov 2014 8:40 pm
Operator : 644
Sample : STD VMS 200 ppb 14K20062
Misc : water IS/SURR14I25028
ALS Vial : 13 Sample Multiplier: 1
InstName : VOCMS7

Quant Time: Nov 25 13:44:41 2014
Quant Method : C:\msdchem\1\methods\V807K24N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS07
QLast Update : Tue Nov 25 13:32:20 2014
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units		Dev(Min)
36) 1,1-Dichloropropene	4.207	75	1289420	196.8033345 ppb		99
37) 2,2,4-TRIMETHYLPENTANE	4.250	57	3871305	192.2772209 ppb		99
38) HEPTANE	4.286	43	1503686	188.4052491 ppb	#	67
39) BENZENE	4.347	78	3775620	198.9904642 ppb		97
40) 1,2-DICHLOROETHANE	4.463	62	1053162	208.3695911 ppb		99
42) TRICHLOROETHENE	4.676	130	930880	197.4740340 ppb		98
43) 1,2-DICHLOROPROPANE	4.992	62	704809	189.9701644 ppb		98
44) DIBROMOMETHANE	4.937	93	555001	203.0661093 ppb		98
45) BROMODICHLOROMETHANE	5.016	83	1178688	196.8139718 ppb		97
47) 2-CHLOROETHYL VINYL ETHER	5.333	63	23783	1188.5046357 ppb	#	84
48) CIS-1,3-DICHLOROPROPENE	5.393	75	1646839	198.8855706 ppb		100
49) 4-METHYL-2-PENTANONE (...	5.765	58	1905611	1006.3494817 ppb		96
51) TOLUENE	5.546	91	3996680	193.9841336 ppb		98
52) TRANS-1,3-DICHLOROPROPENE	5.801	110	344752	190.3195704 ppb		97
54) 1,1,2-TRICHLOROETHANE	5.911	97	846942	188.6764940 ppb		99
55) TETRACHLOROETHENE	5.801	164	656892	178.1414052 ppb		100
56) 1,3-Dichloropropane	6.099	76	1448105	189.5050386 ppb		100
57) 2-HEXANONE	6.306	58	2011235	971.2687818 ppb		95
58) CHLORODIBROMOMETHANE	6.038	129	874795	201.8145778 ppb		100
59) 1,2-DIBROMOETHANE	6.215	107	893080	199.3371305 ppb		100
60) CHLOROBENZENE	6.555	112	2494107	177.9019307 ppb		99
61) 1,1,1,2-TETRACHLOROETHANE	6.592	133	763442	189.0351005 ppb	#	100
62) ETHYLBENZENE	6.555	106	1426269	178.6158583 ppb		97
63) M&P-XYLENE	6.653	106	3459888	358.6218450 ppb		95
64) O-XYLENE	6.957	106	1808665	188.7541610 ppb		97
65) STYRENE	6.993	104	2945311	191.2030324 ppb		96
66) Bromoform	7.036	173	551746	209.7519111 ppb		99
67) Isopropylbenzene	7.176	105	4490875	185.0042444 ppb		99
69) Bromobenzene	7.492	77	1826839	181.2898225 ppb		97
70) 1,1,2,2-TETRACHLOROETHANE	7.529	83	1206599	199.1583284 ppb		100
71) 1,2,3-TRICHLOROPROPANE	7.650	110	287958	202.1571810 ppb		98
72) TRANS-1,4-DICHLORO-2-B...	7.669	53	312750	201.5576795 ppb		96
73) n-Propylbenzene	7.480	91	5247029	180.4287961 ppb		99
74) 4-ETHYLTOLUENE	7.559	105	4294859	183.3491191 ppb		98
75) 2-Chlorotoluene	7.620	126	955012	184.2689168 ppb		97
76) 4-Chlorotoluene	7.742	91	3282852	189.5814307 ppb		99
77) 1,3,5-Trimethylbenzene	7.620	105	3439519	178.5842316 ppb		100
78) tert-Butylbenzene	7.869	119	3063318	187.2338487 ppb		99
79) 1,2,4-Trimethylbenzene	7.924	105	3609425	186.6051540 ppb		99
80) sec-Butylbenzene	8.009	105	4889670	184.4761555 ppb		100
81) 1,3-DICHLOROBENZENE	8.198	146	1998962	191.3988025 ppb		99
82) p-Isopropyltoluene	8.107	119	3774014	180.6259400 ppb		99
83) DICYCLOPENTADIENE	8.113	66	4209768	174.5215042 ppb		98
85) 1,4-DICHLOROBENZENE	8.265	146	1891416	189.8639341 ppb	#	15
86) 1,2,3-TRIMETHYLBENZENE	8.265	105	3496085	186.3526354 ppb		99
87) 1,2-DICHLOROBENZENE	8.600	146	1928875	198.6323866 ppb		100
88) n-Butylbenzene	8.441	91	3723830	182.9841920 ppb		98
89) 1,2-Dibromo-3-chloropr...	9.238	157	266214	224.0714385 ppb		99
90) 1,2,4-Trichlorobenzene	9.798	180	1090201	178.8564074 ppb		100
91) HEXACHLORO-1,3-BUTADIENE	9.761	225	556822	191.6163861 ppb		99
92) Naphthalene	10.072	128	3363821	195.6805629 ppb		99
93) 1,2,3-Trichlorobenzene	10.224	180	994622	187.8688650 ppb		99
94) 1-Methylnaphthalene	10.887	142	1429537	190.8187485 ppb		98
95) 2-Methylnaphthalene	11.003	142	1128022	185.0695637 ppb		99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\112414\
Data File : 1124 13.D
Acq On : 24 Nov 2014 8:40 pm
Operator : 644
Sample : STD VMS 200 ppb 14K20062
Misc : water IS/SURR14I25028
ALS Vial : 13 Sample Multiplier: 1
InstName : VOCMS7

Quant Time: Nov 25 13:44:41 2014
Quant Method : C:\msdchem\1\methods\V807K24N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS07
QLast Update : Tue Nov 25 13:32:20 2014
Response via : Initial Calibration

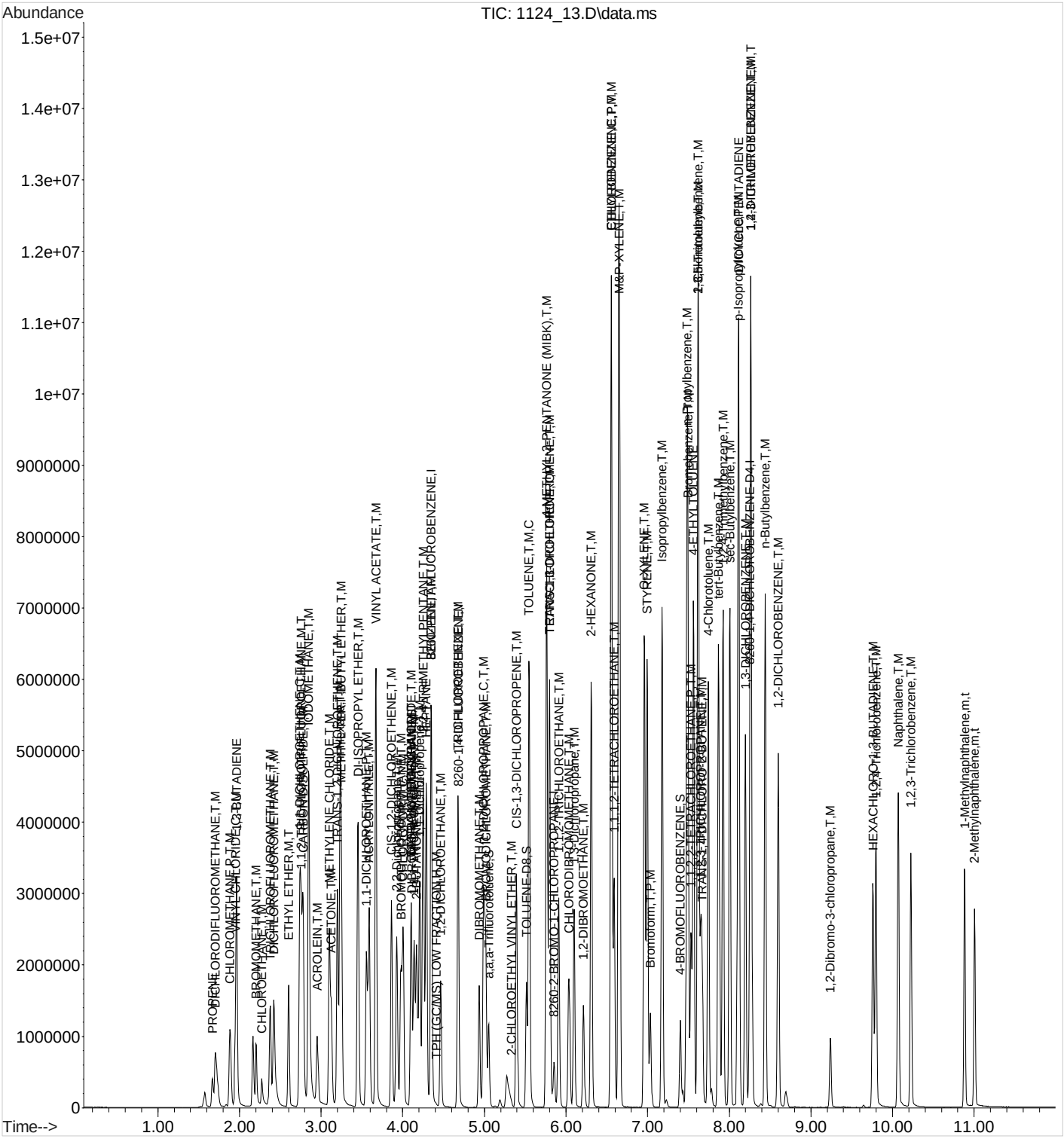
	Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
97)	ETHANOL	0.000		0	N.D. d	
98)	Bromoethane	0.000		0	N.D. d	
99)	2-PROPANOL	0.000		0	N.D. d	
100)	Methyl Acetate	0.000		0	N.D. d	
101)	ACETONITRILE	0.000		0	N.D. d	
102)	ALLYL CHLORIDE	0.000		0	N.D.	
103)	tert-BUTYL ALCOHOL	0.000		0	N.D. d	
104)	chloroprene	0.000		0	N.D. d	
105)	ETHYL TERT-BUTYL ETHER	0.000		0	N.D. d	
106)	PROPIONITRILE	0.000		0	N.D. d	
107)	Ethyl Acetate	0.000		0	N.D. d	
108)	METHACRYLONITRILE	0.000		0	N.D. d	
109)	Cyclohexane	0.000		0	N.D. d	
110)	tert-butyl formate	0.000		0	N.D. d	
111)	ISOBUTANOL	0.000		0	N.D. d	
112)	t-Amyl Alcohol	0.000		0	N.D. d	
113)	TERT-AMYL METHYL ETHER	0.000		0	N.D. d	
115)	N-BUTANOL	0.000		0	N.D. d	
116)	Methyl Cyclohexane	0.000		0	N.D. d	
117)	2-nitropropane	0.000		0	N.D. d	
118)	METHYL METHACRYLATE	0.000		0	N.D. d	
119)	1,4-DIOXANE	0.000		0	N.D. d	
120)	n-octane	0.000		0	N.D. d	
121)	3,3-DIMETHYL-1-BUTANOL	0.000		0	N.D. d	
123)	ETHYL METHACRYLATE	0.000		0	N.D. d	
124)	CIS-1,4-DICHLORO-2-BUTENE	0.000		0	N.D. d	
125)	Cyclohexanone	0.000		0	N.D. d	
126)	PENTACHLOROETHANE	0.000		0	N.D. d	
127)	Hexachloroethane	0.000		0	N.D. d	

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\112414\
Data File : 1124 13.D
Acq On : 24 Nov 2014 8:40 pm
Operator : 644
Sample : STD VMS 200 ppb 14K20062
Misc : water IS/SURR14I25028
ALS Vial : 13 Sample Multiplier: 1
InstName : VOCMS7

Quant Time: Nov 25 13:44:41 2014
Quant Method : C:\msdchem\1\methods\V807K24N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS07
QLast Update : Tue Nov 25 13:32:20 2014
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\112414\
Data File : 1124 18.D
Acq On : 24 Nov 2014 10:17 pm
Operator : 644
Sample : STD VMS 1 ppb 14I02840
Misc : water IS/SURR14I25028
ALS Vial : 18 Sample Multiplier: 1
InstName : VOCMS7

Quant Time: Nov 25 13:53:41 2014
Quant Method : C:\msdchem\1\methods\V807K24N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS07
QLast Update : Tue Nov 25 13:52:28 2014
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 8260-PENTAFLUOROBENZENE	0.000	168	0m	40.0000000	ppb	-4.35
41) 8260-1,4-DIFLUOROBENZENE	0.000	114	0m	40.0000000	ppb	-4.68
53) 8260-2-BROMO-1-CHLOROP...	0.000	79	0m	40.0000000	ppb	-5.85
84) 8260-1,4-DICHLOROBENZE...	0.000	152	0m	40.0000000	ppb	-8.25
96) AP9-PENTAFLUOROBENZENE	4.353	168	392353	40.0000000	ppb	0.00
114) AP9-1,4-DIFLUOROBENZENE	4.681	114	708422	40.0000000	ppb	0.00
122) AP9-2-BROMO-1-CHLOROPR...	5.850	79	119632	40.0000000	ppb	# 0.00
128) AP9-1,4-DICHLOROBENZEN...	8.253	152	339190	40.0000000	ppb	0.00
System Monitoring Compounds						
33) DIBROMOFLUOROMETHANE	0.000	111	0d	0.0000000	ppb	
Spiked Amount 40.000	Range 78 - 121		Recovery = 0.00%#			
46) a,a,a-Trifluorotoluene	0.000	146	0d	0.0000000	ppb	
Spiked Amount 40.000	Range 85 - 114		Recovery = 0.00%#			
50) TOLUENE-D8	0.000	98	0d	0.0000000	ppb	
Spiked Amount 40.000	Range 89 - 111		Recovery = 0.00%#			
68) 4-BROMOFLUOROBENZENE	0.000	95	0d	0.0000000	ppb	
Spiked Amount 40.000	Range 71 - 126		Recovery = 0.00%#			

Target Compounds				Qvalue
2) TPH (GC/MS) LOW FRACTION	0.000	0	N.D. d	
3) PROPENE	0.000	0	N.D. d	
4) DICHLORODIFLUOROMETHANE	0.000	0	N.D.	
5) CHLOROMETHANE	0.000	0	N.D.	
6) VINYL CHLORIDE	0.000	0	N.D.	
7) 1,3-BUTADIENE	0.000	0	N.D. d	
8) BROMOMETHANE	0.000	0	N.D. d	
9) CHLOROETHANE	0.000	0	N.D.	
10) TRICHLOROFLUOROMETHANE	0.000	0	N.D.	
11) DICHLOROFLUOROMETHANE	0.000	0	N.D. d	
12) ETHYL ETHER	0.000	0	N.D.	
13) ACROLEIN	0.000	0	N.D. d	
14) 1,1-DICHLOROETHENE	0.000	0	N.D.	
15) 1,1,2-TRICHLOROTRIFLUO...	0.000	0	N.D.	
16) ACETONE	0.000	0	N.D. d	
17) IODOMETHANE	0.000	0	N.D. d	
18) CARBON DISULFIDE	0.000	0	N.D. d	
19) METHYLENE CHLORIDE	0.000	0	N.D. d	
20) ACRYLONITRILE	0.000	0	N.D. d	
21) n-Hexane	0.000	0	N.D.	
22) TRANS-1,2-DICHLOROETHENE	0.000	0	N.D.	
23) METHYL TERT-BUTYL ETHER	0.000	0	N.D.	
24) 1,1-DICHLOROETHANE	0.000	0	N.D.	
25) VINYL ACETATE	0.000	0	N.D. d	
26) DI-ISOPROPYL ETHER	0.000	0	N.D.	
27) 2,2-Dichloropropane	0.000	0	N.D.	
28) CIS-1,2-DICHLOROETHENE	0.000	0	N.D.	
29) 2-BUTANONE (MEK)	0.000	0	N.D.	
30) BROMOCHLOROMETHANE	0.000	0	N.D.	
31) TETRAHYDROFURAN	0.000	0	N.D. d	
32) CHLOROFORM	0.000	0	N.D. d	
34) 1,1,1-TRICHLOROETHANE	0.000	0	N.D.	
35) CARBON TETRACHLORIDE	0.000	0	N.D.	

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\112414\
Data File : 1124 18.D
Acq On : 24 Nov 2014 10:17 pm
Operator : 644
Sample : STD VMS 1 ppb 14I02840
Misc : water IS/SURR14I25028
ALS Vial : 18 Sample Multiplier: 1
InstName : VOCMS7

Quant Time: Nov 25 13:53:41 2014
Quant Method : C:\msdchem\1\methods\V807K24N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS07
QLast Update : Tue Nov 25 13:52:28 2014
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
36) 1,1-Dichloropropene	0.000		0	N.D.	
37) 2,2,4-TRIMETHYLPENTANE	0.000		0	N.D.	d
38) HEPTANE	0.000		0	N.D.	d
39) BENZENE	0.000		0	N.D.	
40) 1,2-DICHLOROETHANE	0.000		0	N.D.	d
42) TRICHLOROETHENE	0.000		0	N.D.	d
43) 1,2-DICHLOROPROPANE	0.000		0	N.D.	d
44) DIBROMOMETHANE	0.000		0	N.D.	
45) BROMODICHLOROMETHANE	0.000		0	N.D.	d
47) 2-CHLOROETHYL VINYL ETHER	0.000		0	N.D.	
48) CIS-1,3-DICHLOROPROPENE	0.000		0	N.D.	
49) 4-METHYL-2-PENTANONE (...	0.000		0	N.D.	d
51) TOLUENE	0.000		0	N.D.	d
52) TRANS-1,3-DICHLOROPROPENE	0.000		0	N.D.	
54) 1,1,2-TRICHLOROETHANE	0.000		0	N.D.	
55) TETRACHLOROETHENE	0.000		0	N.D.	
56) 1,3-Dichloropropane	0.000		0	N.D.	d
57) 2-HEXANONE	0.000		0	N.D.	d
58) CHLORODIBROMOMETHANE	0.000		0	N.D.	
59) 1,2-DIBROMOETHANE	0.000		0	N.D.	
60) CHLOROBENZENE	0.000		0	N.D.	d
61) 1,1,1,2-TETRACHLOROETHANE	0.000		0	N.D.	
62) ETHYLBENZENE	0.000		0	N.D.	d
63) M&P-XYLENE	0.000		0	N.D.	d
64) O-XYLENE	0.000		0	N.D.	d
65) STYRENE	0.000		0	N.D.	d
66) Bromoform	0.000		0	N.D.	
67) Isopropylbenzene	0.000		0	N.D.	d
69) Bromobenzene	0.000		0	N.D.	d
70) 1,1,2,2-TETRACHLOROETHANE	0.000		0	N.D.	d
71) 1,2,3-TRICHLOROPROPANE	0.000		0	N.D.	
72) TRANS-1,4-DICHLORO-2-B...	0.000		0	N.D.	
73) n-Propylbenzene	0.000		0	N.D.	d
74) 4-ETHYLTOLUENE	0.000		0	N.D.	d
75) 2-Chlorotoluene	0.000		0	N.D.	
76) 4-Chlorotoluene	0.000		0	N.D.	d
77) 1,3,5-Trimethylbenzene	0.000		0	N.D.	d
78) tert-Butylbenzene	0.000		0	N.D.	d
79) 1,2,4-Trimethylbenzene	0.000		0	N.D.	d
80) sec-Butylbenzene	0.000		0	N.D.	d
81) 1,3-DICHLOROBENZENE	0.000		0	N.D.	d
82) p-Isopropyltoluene	0.000		0	N.D.	d
83) DICYCLOPENTADIENE	0.000		0	N.D.	d
85) 1,4-DICHLOROBENZENE	0.000		0	N.D.	d
86) 1,2,3-TRIMETHYLBENZENE	0.000		0	N.D.	d
87) 1,2-DICHLOROBENZENE	0.000		0	N.D.	d
88) n-Butylbenzene	0.000		0	N.D.	d
89) 1,2-Dibromo-3-chloropr...	0.000		0	N.D.	
90) 1,2,4-Trichlorobenzene	0.000		0	N.D.	d
91) HEXACHLORO-1,3-BUTADIENE	0.000		0	N.D.	d
92) Naphthalene	0.000		0	N.D.	d
93) 1,2,3-Trichlorobenzene	0.000		0	N.D.	d
94) 1-Methylnaphthalene	0.000		0	N.D.	d
95) 2-Methylnaphthalene	0.000		0	N.D.	d

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\112414\
Data File : 1124 18.D
Acq On : 24 Nov 2014 10:17 pm
Operator : 644
Sample : STD VMS 1 ppb 14I02840
Misc : water IS/SURR14I25028
ALS Vial : 18 Sample Multiplier: 1
InstName : VOCMS7

Quant Time: Nov 25 13:53:41 2014
Quant Method : C:\msdchem\1\methods\V807K24N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS07
QLast Update : Tue Nov 25 13:52:28 2014
Response via : Initial Calibration

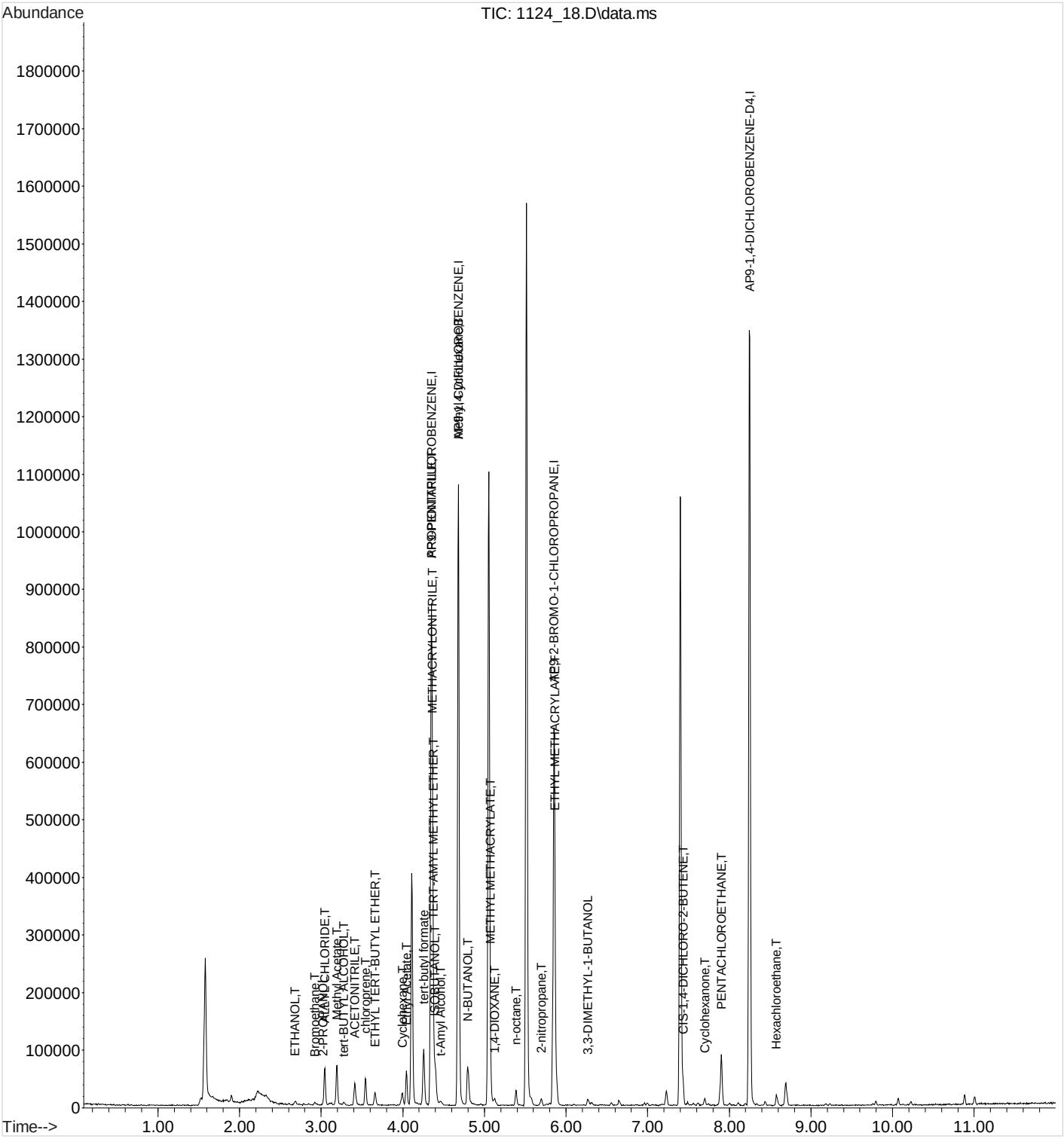
	Compound	R.T.	QIon	Response	Conc Units		Dev(Min)
97)	ETHANOL	2.680	45	8483	110.2449196 ppb	#	86
98)	Bromoethane	2.923	108	3351	1.0384564 ppb		94
99)	2-PROPANOL	3.021	45	2900	6.9132547 ppb	#	75
100)	Methyl Acetate	3.191	43	65842	20.5486674 ppb	#	98
101)	ACETONITRILE	3.410	41	32986	49.9514406 ppb		93
102)	ALLYL CHLORIDE	3.045	76	12489	5.0679245 ppb		82
103)	tert-BUTYL ALCOHOL	3.276	59	4748	5.4065414 ppb	#	90
104)	chloroprene	3.544	53	21640	5.0470506 ppb		100
105)	ETHYL TERT-BUTYL ETHER	3.659	59	15376	1.0291444 ppb		94
106)	PROPIONITRILE	4.353	54	35605	52.4626728 ppb	#	1
107)	Ethyl Acetate	4.043	43	50066	10.4985679 ppb		99
108)	METHACRYLONITRILE	4.365	67	108560	54.4306771 ppb		98
109)	Cyclohexane	3.994	84	6558	1.0519811 ppb		89
110)	tert-butyl formate	4.256	59	44545	10.1745699 ppb		98
111)	ISOBUTANOL	4.396	43	30934	106.1734197 ppb	#	88
112)	t-Amyl Alcohol	4.462	59	2792	5.3312235 ppb		98
113)	TERT-AMYL METHYL ETHER	4.377	73	14148	1.1225604 ppb	#	93
115)	N-BUTANOL	4.797	56	37138	207.5455057 ppb		96
116)	Methyl Cyclohexane	4.681	83	14732	1.8418579 ppb		91
117)	2-nitropropane	5.697	43	9032	7.3937581 ppb		93
118)	METHYL METHACRYLATE	5.071	41	22105	5.4110564 ppb	#	100
119)	1,4-DIOXANE	5.126	88	5820	95.9955527 ppb	#	100
120)	n-octane	5.387	85	4736	1.1308092 ppb		87
121)	3,3-DIMETHYL-1-BUTANOL	6.263	57	5930	10.7707884 ppb		93
123)	ETHYL METHACRYLATE	5.862	69	35012	5.1916803 ppb	#	1
124)	CIS-1,4-DICHLORO-2-BUTENE	7.437	53	7617	4.8122157 ppb	#	24
125)	Cyclohexanone	7.699	55	5373	5.1544925 ppb		99
126)	PENTACHLOROETHANE	7.900	117	17229	5.3688805 ppb		94
127)	Hexachloroethane	8.575	117	3516	0.9239871 ppb		96

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\112414\
Data File : 1124 18.D
Acq On : 24 Nov 2014 10:17 pm
Operator : 644
Sample : STD VMS 1 ppb 14I02840
Misc : water IS/SURR14I25028
ALS Vial : 18 Sample Multiplier: 1
InstName : VOCMS7

Quant Time: Nov 25 13:53:41 2014
Quant Method : C:\msdchem\1\methods\V807K24N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS07
QLast Update : Tue Nov 25 13:52:28 2014
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\112414\
Data File : 1124 19.D
Acq On : 24 Nov 2014 10:36 pm
Operator : 644
Sample : STD VMS 2.5 ppb 14I02840
Misc : water IS/SURR14I25028
ALS Vial : 19 Sample Multiplier: 1
InstName : VOCMS7

Quant Time: Nov 25 13:54:43 2014
Quant Method : C:\msdchem\1\methods\V807K24N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS07
QLast Update : Tue Nov 25 13:52:28 2014
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 8260-PENTAFLUOROBENZENE	0.000	168	0m	40.0000000	ppb	-4.35
41) 8260-1,4-DIFLUOROBENZENE	0.000	114	0m	40.0000000	ppb	-4.68
53) 8260-2-BROMO-1-CHLOROP...	0.000	79	0m	40.0000000	ppb	-5.85
84) 8260-1,4-DICHLOROBENZE...	0.000	152	0m	40.0000000	ppb	-8.25
96) AP9-PENTAFLUOROBENZENE	4.353	168	386153	40.0000000	ppb	0.00
114) AP9-1,4-DIFLUOROBENZENE	4.682	114	710298	40.0000000	ppb	0.00
122) AP9-2-BROMO-1-CHLOROPR...	5.850	79	119695	40.0000000	ppb	# 0.00
128) AP9-1,4-DICHLOROBENZEN...	8.253	152	336298	40.0000000	ppb	0.00
System Monitoring Compounds						
33) DIBROMOFLUOROMETHANE	0.000	111	0d	0.0000000	ppb	
Spiked Amount 40.000	Range 78 - 121		Recovery = 0.00%#			
46) a,a,a-Trifluorotoluene	0.000	146	0d	0.0000000	ppb	
Spiked Amount 40.000	Range 85 - 114		Recovery = 0.00%#			
50) TOLUENE-D8	0.000	98	0d	0.0000000	ppb	
Spiked Amount 40.000	Range 89 - 111		Recovery = 0.00%#			
68) 4-BROMOFLUOROBENZENE	0.000	95	0d	0.0000000	ppb	
Spiked Amount 40.000	Range 71 - 126		Recovery = 0.00%#			

Target Compounds				Qvalue
2) TPH (GC/MS) LOW FRACTION	0.000	0	N.D. d	
3) PROPENE	0.000	0	N.D. d	
4) DICHLORODIFLUOROMETHANE	0.000	0	N.D.	
5) CHLOROMETHANE	0.000	0	N.D. d	
6) VINYL CHLORIDE	0.000	0	N.D.	
7) 1,3-BUTADIENE	0.000	0	N.D. d	
8) BROMOMETHANE	0.000	0	N.D. d	
9) CHLOROETHANE	0.000	0	N.D.	
10) TRICHLOROFLUOROMETHANE	0.000	0	N.D.	
11) DICHLOROFLUOROMETHANE	0.000	0	N.D.	
12) ETHYL ETHER	0.000	0	N.D.	
13) ACROLEIN	0.000	0	N.D. d	
14) 1,1-DICHLOROETHENE	0.000	0	N.D.	
15) 1,1,2-TRICHLOROTRIFLUO...	0.000	0	N.D.	
16) ACETONE	0.000	0	N.D. d	
17) IODOMETHANE	0.000	0	N.D. d	
18) CARBON DISULFIDE	0.000	0	N.D. d	
19) METHYLENE CHLORIDE	0.000	0	N.D. d	
20) ACRYLONITRILE	0.000	0	N.D. d	
21) n-Hexane	0.000	0	N.D.	
22) TRANS-1,2-DICHLOROETHENE	0.000	0	N.D.	
23) METHYL TERT-BUTYL ETHER	0.000	0	N.D.	
24) 1,1-DICHLOROETHANE	0.000	0	N.D. d	
25) VINYL ACETATE	0.000	0	N.D. d	
26) DI-ISOPROPYL ETHER	0.000	0	N.D.	
27) 2,2-Dichloropropane	0.000	0	N.D.	
28) CIS-1,2-DICHLOROETHENE	0.000	0	N.D.	
29) 2-BUTANONE (MEK)	0.000	0	N.D.	
30) BROMOCHLOROMETHANE	0.000	0	N.D.	
31) TETRAHYDROFURAN	0.000	0	N.D. d	
32) CHLOROFORM	0.000	0	N.D. d	
34) 1,1,1-TRICHLOROETHANE	0.000	0	N.D.	
35) CARBON TETRACHLORIDE	0.000	0	N.D.	

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\112414\
Data File : 1124 19.D
Acq On : 24 Nov 2014 10:36 pm
Operator : 644
Sample : STD VMS 2.5 ppb 14I02840
Misc : water IS/SURR14I25028
ALS Vial : 19 Sample Multiplier: 1
InstName : VOCMS7

Quant Time: Nov 25 13:54:43 2014
Quant Method : C:\msdchem\1\methods\V807K24N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS07
QLast Update : Tue Nov 25 13:52:28 2014
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
36) 1,1-Dichloropropene	0.000		0	N.D.	
37) 2,2,4-TRIMETHYLPENTANE	0.000		0	N.D.	d
38) HEPTANE	0.000		0	N.D.	d
39) BENZENE	0.000		0	N.D.	d
40) 1,2-DICHLOROETHANE	0.000		0	N.D.	d
42) TRICHLOROETHENE	0.000		0	N.D.	d
43) 1,2-DICHLOROPROPANE	0.000		0	N.D.	d
44) DIBROMOMETHANE	0.000		0	N.D.	
45) BROMODICHLOROMETHANE	0.000		0	N.D.	d
47) 2-CHLOROETHYL VINYL ETHER	0.000		0	N.D.	
48) CIS-1,3-DICHLOROPROPENE	0.000		0	N.D.	
49) 4-METHYL-2-PENTANONE (...	0.000		0	N.D.	d
51) TOLUENE	0.000		0	N.D.	d
52) TRANS-1,3-DICHLOROPROPENE	0.000		0	N.D.	
54) 1,1,2-TRICHLOROETHANE	0.000		0	N.D.	
55) TETRACHLOROETHENE	0.000		0	N.D.	d
56) 1,3-Dichloropropane	0.000		0	N.D.	d
57) 2-HEXANONE	0.000		0	N.D.	d
58) CHLORODIBROMOMETHANE	0.000		0	N.D.	
59) 1,2-DIBROMOETHANE	0.000		0	N.D.	
60) CHLOROBENZENE	0.000		0	N.D.	d
61) 1,1,1,2-TETRACHLOROETHANE	0.000		0	N.D.	d
62) ETHYLBENZENE	0.000		0	N.D.	d
63) M&P-XYLENE	0.000		0	N.D.	d
64) O-XYLENE	0.000		0	N.D.	d
65) STYRENE	0.000		0	N.D.	d
66) Bromoform	0.000		0	N.D.	
67) Isopropylbenzene	0.000		0	N.D.	d
69) Bromobenzene	0.000		0	N.D.	d
70) 1,1,2,2-TETRACHLOROETHANE	0.000		0	N.D.	d
71) 1,2,3-TRICHLOROPROPANE	0.000		0	N.D.	
72) TRANS-1,4-DICHLORO-2-B...	0.000		0	N.D.	d
73) n-Propylbenzene	0.000		0	N.D.	d
74) 4-ETHYLTOLUENE	0.000		0	N.D.	d
75) 2-Chlorotoluene	0.000		0	N.D.	
76) 4-Chlorotoluene	0.000		0	N.D.	d
77) 1,3,5-Trimethylbenzene	0.000		0	N.D.	d
78) tert-Butylbenzene	0.000		0	N.D.	d
79) 1,2,4-Trimethylbenzene	0.000		0	N.D.	d
80) sec-Butylbenzene	0.000		0	N.D.	d
81) 1,3-DICHLOROBENZENE	0.000		0	N.D.	d
82) p-Isopropyltoluene	0.000		0	N.D.	d
83) DICYCLOPENTADIENE	0.000		0	N.D.	d
85) 1,4-DICHLOROBENZENE	0.000		0	N.D.	d
86) 1,2,3-TRIMETHYLBENZENE	0.000		0	N.D.	d
87) 1,2-DICHLOROBENZENE	0.000		0	N.D.	d
88) n-Butylbenzene	0.000		0	N.D.	d
89) 1,2-Dibromo-3-chloropr...	0.000		0	N.D.	
90) 1,2,4-Trichlorobenzene	0.000		0	N.D.	d
91) HEXACHLORO-1,3-BUTADIENE	0.000		0	N.D.	d
92) Naphthalene	0.000		0	N.D.	d
93) 1,2,3-Trichlorobenzene	0.000		0	N.D.	d
94) 1-Methylnaphthalene	0.000		0	N.D.	d
95) 2-Methylnaphthalene	0.000		0	N.D.	d

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\112414\
Data File : 1124 19.D
Acq On : 24 Nov 2014 10:36 pm
Operator : 644
Sample : STD VMS 2.5 ppb 14I02840
Misc : water IS/SURR14I25028
ALS Vial : 19 Sample Multiplier: 1
InstName : VOCMS7

Quant Time: Nov 25 13:54:43 2014
Quant Method : C:\msdchem\1\methods\V807K24N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS07
QLast Update : Tue Nov 25 13:52:28 2014
Response via : Initial Calibration

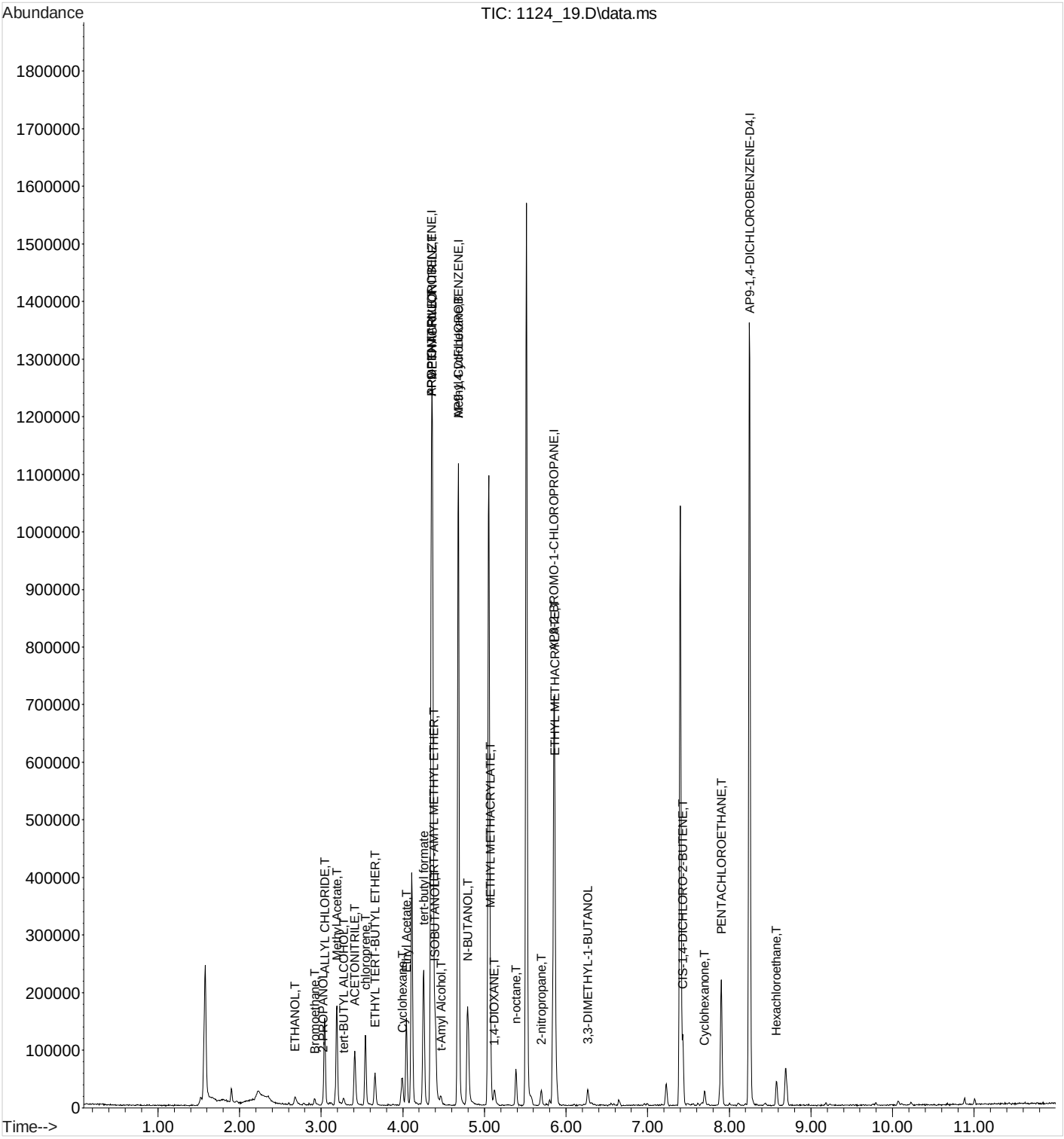
	Compound	R.T.	QIon	Response	Conc Units		Dev(Min)
97)	ETHANOL	2.680	45	19588	258.6525581 ppb	#	92
98)	Bromoethane	2.923	108	7183	2.2617119 ppb		91
99)	2-PROPANOL	3.021	45	5570	13.4914094 ppb	#	91
100)	Methyl Acetate	3.191	43	167014	52.9603796 ppb	#	99
101)	ACETONITRILE	3.410	41	83339	128.2283969 ppb		99
102)	ALLYL CHLORIDE	3.045	76	31494	12.9851765 ppb		96
103)	tert-BUTYL ALCOHOL	3.276	59	12076	13.9717078 ppb	#	89
104)	chloroprene	3.544	53	55965	13.2621665 ppb		96
105)	ETHYL TERT-BUTYL ETHER	3.660	59	38566	2.6227392 ppb		97
106)	PROPIONITRILE	4.353	54	88738	132.8515494 ppb	#	1
107)	Ethyl Acetate	4.043	43	124864	26.6036958 ppb		100
108)	METHACRYLONITRILE	4.365	67	268634	136.8524087 ppb		98
109)	Cyclohexane	3.994	84	15524	2.5302167 ppb		93
110)	tert-butyl formate	4.256	59	110909	25.7395796 ppb		99
111)	ISOBUTANOL	4.396	43	74559	260.0143778 ppb	#	87
112)	t-Amyl Alcohol	4.469	59	6731	13.0589611 ppb		93
113)	TERT-AMYL METHYL ETHER	4.384	73	34395	2.7728576 ppb	#	93
115)	N-BUTANOL	4.797	56	93797	522.7995650 ppb		96
116)	Methyl Cyclohexane	4.682	83	25837	3.2217210 ppb		95
117)	2-nitropropane	5.698	43	16235	13.2551623 ppb		92
118)	METHYL METHACRYLATE	5.071	41	52671	12.8592179 ppb	#	100
119)	1,4-DIOXANE	5.120	88	15198	250.0149720 ppb	#	100
120)	n-octane	5.387	85	10855	2.5849902 ppb		95
121)	3,3-DIMETHYL-1-BUTANOL	6.263	57	14752	26.7236117 ppb		94
123)	ETHYL METHACRYLATE	5.862	69	87488	12.9661448 ppb	#	1
124)	CIS-1,4-DICHLORO-2-BUTENE	7.431	53	19435	12.2720476 ppb	#	26
125)	Cyclohexanone	7.693	55	10305	9.8807160 ppb		95
126)	PENTACHLOROETHANE	7.900	117	40828	12.7160763 ppb		98
127)	Hexachloroethane	8.575	117	9242	2.4274726 ppb		99

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\112414\
Data File : 1124 19.D
Acq On : 24 Nov 2014 10:36 pm
Operator : 644
Sample : STD VMS 2.5 ppb 14I02840
Misc : water IS/SURR14I25028
ALS Vial : 19 Sample Multiplier: 1
InstName : VOCMS7

Quant Time: Nov 25 13:54:43 2014
Quant Method : C:\msdchem\1\methods\V807K24N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS07
QLast Update : Tue Nov 25 13:52:28 2014
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\112414\
Data File : 1124 20.D
Acq On : 24 Nov 2014 10:55 pm
Operator : 644
Sample : STD VMS 5 ppb 14I02840
Misc : water IS/SURR14I25028
ALS Vial : 20 Sample Multiplier: 1
InstName : VOCMS7

Quant Time: Nov 25 13:55:25 2014
Quant Method : C:\msdchem\1\methods\V807K24N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS07
QLast Update : Tue Nov 25 13:52:28 2014
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 8260-PENTAFLUOROBENZENE	0.000	168	0m	40.0000000	ppb	-4.35
41) 8260-1,4-DIFLUOROBENZENE	0.000	114	0m	40.0000000	ppb	-4.68
53) 8260-2-BROMO-1-CHLOROP...	0.000	79	0m	40.0000000	ppb	-5.85
84) 8260-1,4-DICHLOROBENZE...	0.000	152	0m	40.0000000	ppb	-8.25
96) AP9-PENTAFLUOROBENZENE	4.353	168	385041	40.0000000	ppb	0.00
114) AP9-1,4-DIFLUOROBENZENE	4.682	114	704857	40.0000000	ppb	0.00
122) AP9-2-BROMO-1-CHLOROPR...	5.850	79	119481	40.0000000	ppb	# 0.00
128) AP9-1,4-DICHLOROBENZEN...	8.253	152	338456	40.0000000	ppb	0.00
System Monitoring Compounds						
33) DIBROMOFLUOROMETHANE	0.000	111	0d	0.0000000	ppb	
Spiked Amount 40.000	Range 78 - 121		Recovery = 0.00%#			
46) a,a,a-Trifluorotoluene	0.000	146	0d	0.0000000	ppb	
Spiked Amount 40.000	Range 85 - 114		Recovery = 0.00%#			
50) TOLUENE-D8	0.000	98	0d	0.0000000	ppb	
Spiked Amount 40.000	Range 89 - 111		Recovery = 0.00%#			
68) 4-BROMOFLUOROBENZENE	0.000	95	0d	0.0000000	ppb	
Spiked Amount 40.000	Range 71 - 126		Recovery = 0.00%#			

Target Compounds				Qvalue
2) TPH (GC/MS) LOW FRACTION	0.000	0	N.D. d	
3) PROPENE	0.000	0	N.D. d	
4) DICHLORODIFLUOROMETHANE	0.000	0	N.D.	
5) CHLOROMETHANE	0.000	0	N.D. d	
6) VINYL CHLORIDE	0.000	0	N.D.	
7) 1,3-BUTADIENE	0.000	0	N.D. d	
8) BROMOMETHANE	0.000	0	N.D. d	
9) CHLOROETHANE	0.000	0	N.D.	
10) TRICHLOROFLUOROMETHANE	0.000	0	N.D.	
11) DICHLOROFLUOROMETHANE	0.000	0	N.D.	
12) ETHYL ETHER	0.000	0	N.D.	
13) ACROLEIN	0.000	0	N.D. d	
14) 1,1-DICHLOROETHENE	0.000	0	N.D.	
15) 1,1,2-TRICHLOROTRIFLUO...	0.000	0	N.D.	
16) ACETONE	0.000	0	N.D. d	
17) IODOMETHANE	0.000	0	N.D. d	
18) CARBON DISULFIDE	0.000	0	N.D. d	
19) METHYLENE CHLORIDE	0.000	0	N.D. d	
20) ACRYLONITRILE	0.000	0	N.D. d	
21) n-Hexane	0.000	0	N.D. d	
22) TRANS-1,2-DICHLOROETHENE	0.000	0	N.D.	
23) METHYL TERT-BUTYL ETHER	0.000	0	N.D.	
24) 1,1-DICHLOROETHANE	0.000	0	N.D. d	
25) VINYL ACETATE	0.000	0	N.D. d	
26) DI-ISOPROPYL ETHER	0.000	0	N.D.	
27) 2,2-Dichloropropane	0.000	0	N.D.	
28) CIS-1,2-DICHLOROETHENE	0.000	0	N.D.	
29) 2-BUTANONE (MEK)	0.000	0	N.D.	
30) BROMOCHLOROMETHANE	0.000	0	N.D.	
31) TETRAHYDROFURAN	0.000	0	N.D. d	
32) CHLOROFORM	0.000	0	N.D. d	
34) 1,1,1-TRICHLOROETHANE	0.000	0	N.D.	
35) CARBON TETRACHLORIDE	0.000	0	N.D.	

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\112414\
Data File : 1124 20.D
Acq On : 24 Nov 2014 10:55 pm
Operator : 644
Sample : STD VMS 5 ppb 14I02840
Misc : water IS/SURR14I25028
ALS Vial : 20 Sample Multiplier: 1
InstName : VOCMS7

Quant Time: Nov 25 13:55:25 2014
Quant Method : C:\msdchem\1\methods\V807K24N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS07
QLast Update : Tue Nov 25 13:52:28 2014
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
36) 1,1-Dichloropropene	0.000		0	N.D.	
37) 2,2,4-TRIMETHYLPENTANE	0.000		0	N.D.	d
38) HEPTANE	0.000		0	N.D.	d
39) BENZENE	0.000		0	N.D.	d
40) 1,2-DICHLOROETHANE	0.000		0	N.D.	d
42) TRICHLOROETHENE	0.000		0	N.D.	d
43) 1,2-DICHLOROPROPANE	0.000		0	N.D.	d
44) DIBROMOMETHANE	0.000		0	N.D.	
45) BROMODICHLOROMETHANE	0.000		0	N.D.	d
47) 2-CHLOROETHYL VINYL ETHER	0.000		0	N.D.	
48) CIS-1,3-DICHLOROPROPENE	0.000		0	N.D.	
49) 4-METHYL-2-PENTANONE (...	0.000		0	N.D.	d
51) TOLUENE	0.000		0	N.D.	d
52) TRANS-1,3-DICHLOROPROPENE	0.000		0	N.D.	
54) 1,1,2-TRICHLOROETHANE	0.000		0	N.D.	d
55) TETRACHLOROETHENE	0.000		0	N.D.	d
56) 1,3-Dichloropropane	0.000		0	N.D.	d
57) 2-HEXANONE	0.000		0	N.D.	d
58) CHLORODIBROMOMETHANE	0.000		0	N.D.	
59) 1,2-DIBROMOETHANE	0.000		0	N.D.	
60) CHLOROBENZENE	0.000		0	N.D.	
61) 1,1,1,2-TETRACHLOROETHANE	0.000		0	N.D.	d
62) ETHYLBENZENE	0.000		0	N.D.	
63) M&P-XYLENE	0.000		0	N.D.	d
64) O-XYLENE	0.000		0	N.D.	d
65) STYRENE	0.000		0	N.D.	d
66) Bromoform	0.000		0	N.D.	
67) Isopropylbenzene	0.000		0	N.D.	d
69) Bromobenzene	0.000		0	N.D.	d
70) 1,1,2,2-TETRACHLOROETHANE	0.000		0	N.D.	d
71) 1,2,3-TRICHLOROPROPANE	0.000		0	N.D.	
72) TRANS-1,4-DICHLORO-2-B...	0.000		0	N.D.	d
73) n-Propylbenzene	0.000		0	N.D.	d
74) 4-ETHYLTOLUENE	0.000		0	N.D.	d
75) 2-Chlorotoluene	0.000		0	N.D.	
76) 4-Chlorotoluene	0.000		0	N.D.	d
77) 1,3,5-Trimethylbenzene	0.000		0	N.D.	d
78) tert-Butylbenzene	0.000		0	N.D.	d
79) 1,2,4-Trimethylbenzene	0.000		0	N.D.	d
80) sec-Butylbenzene	0.000		0	N.D.	d
81) 1,3-DICHLOROBENZENE	0.000		0	N.D.	d
82) p-Isopropyltoluene	0.000		0	N.D.	d
83) DICYCLOPENTADIENE	0.000		0	N.D.	d
85) 1,4-DICHLOROBENZENE	0.000		0	N.D.	d
86) 1,2,3-TRIMETHYLBENZENE	0.000		0	N.D.	d
87) 1,2-DICHLOROBENZENE	0.000		0	N.D.	d
88) n-Butylbenzene	0.000		0	N.D.	d
89) 1,2-Dibromo-3-chloropr...	0.000		0	N.D.	
90) 1,2,4-Trichlorobenzene	0.000		0	N.D.	d
91) HEXACHLORO-1,3-BUTADIENE	0.000		0	N.D.	
92) Naphthalene	0.000		0	N.D.	d
93) 1,2,3-Trichlorobenzene	0.000		0	N.D.	d
94) 1-Methylnaphthalene	0.000		0	N.D.	d
95) 2-Methylnaphthalene	0.000		0	N.D.	d

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\112414\
Data File : 1124 20.D
Acq On : 24 Nov 2014 10:55 pm
Operator : 644
Sample : STD VMS 5 ppb 14I02840
Misc : water IS/SURR14I25028
ALS Vial : 20 Sample Multiplier: 1
InstName : VOCMS7

Quant Time: Nov 25 13:55:25 2014
Quant Method : C:\msdchem\1\methods\V807K24N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS07
QLast Update : Tue Nov 25 13:52:28 2014
Response via : Initial Calibration

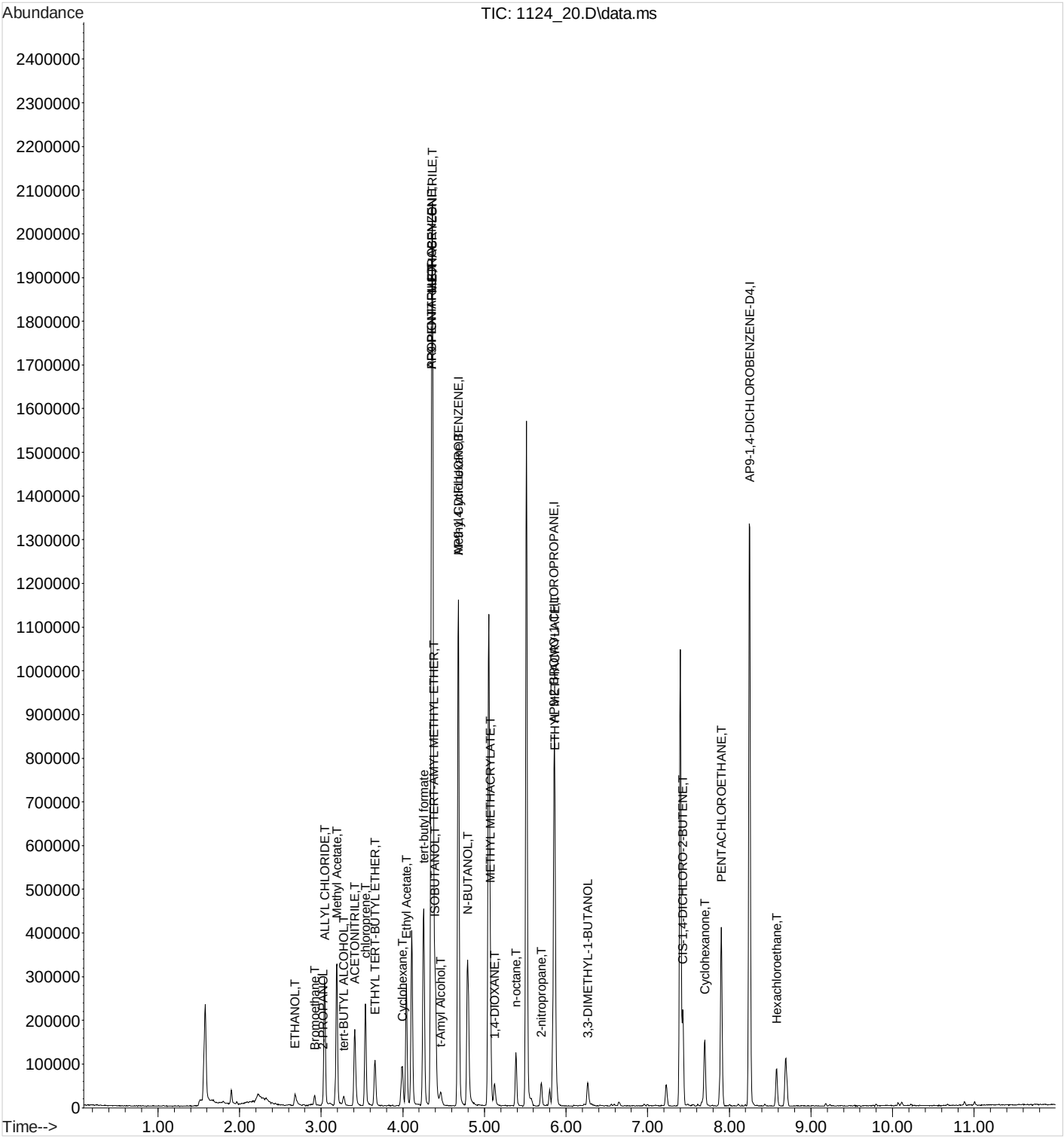
	Compound	R.T.	QIon	Response	Conc Units		Dev(Min)
97)	ETHANOL	2.680	45	36373	481.6795869 ppb	#	94
98)	Bromoethane	2.923	108	14938	4.7171133 ppb		98
99)	2-PROPANOL	3.021	45	10453	25.3919183 ppb		92
100)	Methyl Acetate	3.191	43	317930	101.1072175 ppb	#	99
101)	ACETONITRILE	3.410	41	158570	244.6861517 ppb		99
102)	ALLYL CHLORIDE	3.045	76	60038	24.8255391 ppb		97
103)	tert-BUTYL ALCOHOL	3.276	59	22237	25.8020982 ppb	#	89
104)	chloroprene	3.544	53	108053	25.6795396 ppb		97
105)	ETHYL TERT-BUTYL ETHER	3.660	59	75385	5.1414769 ppb		99
106)	PROPIONITRILE	4.353	54	169748	254.8672835 ppb	#	11
107)	Ethyl Acetate	4.043	43	235861	50.3980000 ppb		100
108)	METHACRYLONITRILE	4.365	67	505863	258.4501680 ppb		99
109)	Cyclohexane	3.994	84	30474	4.9812229 ppb		96
110)	tert-butyl formate	4.256	59	216886	50.4799151 ppb		100
111)	ISOBUTANOL	4.396	43	141865	496.1637005 ppb	#	86
112)	t-Amyl Alcohol	4.463	59	12234	23.8040005 ppb		98
113)	TERT-AMYL METHYL ETHER	4.383	73	65781	5.3184510 ppb	#	93
115)	N-BUTANOL	4.797	56	175053	983.2306360 ppb		97
116)	Methyl Cyclohexane	4.682	83	43418	5.4557598 ppb		97
117)	2-nitropropane	5.697	43	32372	26.6343353 ppb		99
118)	METHYL METHACRYLATE	5.071	41	103491	25.4615682 ppb	#	100
119)	1,4-DIOXANE	5.126	88	31188	517.0192068 ppb	#	100
120)	n-octane	5.387	85	22435	5.3838719 ppb		96
121)	3,3-DIMETHYL-1-BUTANOL	6.263	57	27546	50.2854530 ppb		99
123)	ETHYL METHACRYLATE	5.862	69	167071	24.8050789 ppb	#	54
124)	CIS-1,4-DICHLORO-2-BUTENE	7.431	53	37741	23.8738823 ppb	#	25
125)	Cyclohexanone	7.699	55	59585	57.2340563 ppb		97
126)	PENTACHLOROETHANE	7.900	117	77206	24.0892474 ppb		98
127)	Hexachloroethane	8.581	117	19061	5.0154651 ppb		99

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\112414\
Data File : 1124 20.D
Acq On : 24 Nov 2014 10:55 pm
Operator : 644
Sample : STD VMS 5 ppb 14I02840
Misc : water IS/SURR14I25028
ALS Vial : 20 Sample Multiplier: 1
InstName : VOCMS7

Quant Time: Nov 25 13:55:25 2014
Quant Method : C:\msdchem\1\methods\V807K24N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS07
QLast Update : Tue Nov 25 13:52:28 2014
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\112414\
Data File : 1124 21.D
Acq On : 24 Nov 2014 11:14 pm
Operator : 644
Sample : STD VMS 7.5 ppb 14I02840
Misc : water IS/SURR14I25028
ALS Vial : 21 Sample Multiplier: 1
InstName : VOCMS7

Quant Time: Nov 25 13:56:03 2014
Quant Method : C:\msdchem\1\methods\V807K24N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS07
QLast Update : Tue Nov 25 13:52:28 2014
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 8260-PENTAFLUOROBENZENE	0.000	168	0m	40.0000000	ppb	-4.35
41) 8260-1,4-DIFLUOROBENZENE	0.000	114	0m	40.0000000	ppb	-4.68
53) 8260-2-BROMO-1-CHLOROP...	0.000	79	0m	40.0000000	ppb	-5.85
84) 8260-1,4-DICHLOROBENZE...	0.000	152	0m	40.0000000	ppb	-8.25
96) AP9-PENTAFLUOROBENZENE	4.353	168	375555	40.0000000	ppb	0.00
114) AP9-1,4-DIFLUOROBENZENE	4.682	114	698570	40.0000000	ppb	0.00
122) AP9-2-BROMO-1-CHLOROPR...	5.850	79	117471	40.0000000	ppb	0.00
128) AP9-1,4-DICHLOROBENZEN...	8.253	152	335215	40.0000000	ppb	0.00
System Monitoring Compounds						
33) DIBROMOFLUOROMETHANE	0.000	111	0d	0.0000000	ppb	
Spiked Amount 40.000	Range 78 - 121		Recovery = 0.00%#			
46) a,a,a-Trifluorotoluene	0.000	146	0d	0.0000000	ppb	
Spiked Amount 40.000	Range 85 - 114		Recovery = 0.00%#			
50) TOLUENE-D8	0.000	98	0d	0.0000000	ppb	
Spiked Amount 40.000	Range 89 - 111		Recovery = 0.00%#			
68) 4-BROMOFLUOROBENZENE	0.000	95	0d	0.0000000	ppb	
Spiked Amount 40.000	Range 71 - 126		Recovery = 0.00%#			

Target Compounds				Qvalue
2) TPH (GC/MS) LOW FRACTION	0.000	0	N.D. d	
3) PROPENE	0.000	0	N.D. d	
4) DICHLORODIFLUOROMETHANE	0.000	0	N.D.	
5) CHLOROMETHANE	0.000	0	N.D. d	
6) VINYL CHLORIDE	0.000	0	N.D.	
7) 1,3-BUTADIENE	0.000	0	N.D. d	
8) BROMOMETHANE	0.000	0	N.D. d	
9) CHLOROETHANE	0.000	0	N.D.	
10) TRICHLOROFLUOROMETHANE	0.000	0	N.D.	
11) DICHLOROFLUOROMETHANE	0.000	0	N.D.	
12) ETHYL ETHER	0.000	0	N.D.	
13) ACROLEIN	0.000	0	N.D.	
14) 1,1-DICHLOROETHENE	0.000	0	N.D.	
15) 1,1,2-TRICHLOROTRIFLUO...	0.000	0	N.D.	
16) ACETONE	0.000	0	N.D. d	
17) IODOMETHANE	0.000	0	N.D. d	
18) CARBON DISULFIDE	0.000	0	N.D. d	
19) METHYLENE CHLORIDE	0.000	0	N.D. d	
20) ACRYLONITRILE	0.000	0	N.D. d	
21) n-Hexane	0.000	0	N.D. d	
22) TRANS-1,2-DICHLOROETHENE	0.000	0	N.D.	
23) METHYL TERT-BUTYL ETHER	0.000	0	N.D. d	
24) 1,1-DICHLOROETHANE	0.000	0	N.D. d	
25) VINYL ACETATE	0.000	0	N.D. d	
26) DI-ISOPROPYL ETHER	0.000	0	N.D.	
27) 2,2-Dichloropropane	0.000	0	N.D. d	
28) CIS-1,2-DICHLOROETHENE	0.000	0	N.D.	
29) 2-BUTANONE (MEK)	0.000	0	N.D.	
30) BROMOCHLOROMETHANE	0.000	0	N.D.	
31) TETRAHYDROFURAN	0.000	0	N.D. d	
32) CHLOROFORM	0.000	0	N.D. d	
34) 1,1,1-TRICHLOROETHANE	0.000	0	N.D.	
35) CARBON TETRACHLORIDE	0.000	0	N.D.	

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\112414\
Data File : 1124 21.D
Acq On : 24 Nov 2014 11:14 pm
Operator : 644
Sample : STD VMS 7.5 ppb 14I02840
Misc : water IS/SURR14I25028
ALS Vial : 21 Sample Multiplier: 1
InstName : VOCMS7

Quant Time: Nov 25 13:56:03 2014
Quant Method : C:\msdchem\1\methods\V807K24N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS07
QLast Update : Tue Nov 25 13:52:28 2014
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
36) 1,1-Dichloropropene	0.000		0	N.D.	
37) 2,2,4-TRIMETHYLPENTANE	0.000		0	N.D.	d
38) HEPTANE	0.000		0	N.D.	d
39) BENZENE	0.000		0	N.D.	d
40) 1,2-DICHLOROETHANE	0.000		0	N.D.	d
42) TRICHLOROETHENE	0.000		0	N.D.	d
43) 1,2-DICHLOROPROPANE	0.000		0	N.D.	d
44) DIBROMOMETHANE	0.000		0	N.D.	
45) BROMODICHLOROMETHANE	0.000		0	N.D.	d
47) 2-CHLOROETHYL VINYL ETHER	0.000		0	N.D.	
48) CIS-1,3-DICHLOROPROPENE	0.000		0	N.D.	
49) 4-METHYL-2-PENTANONE (...	0.000		0	N.D.	d
51) TOLUENE	0.000		0	N.D.	d
52) TRANS-1,3-DICHLOROPROPENE	0.000		0	N.D.	
54) 1,1,2-TRICHLOROETHANE	0.000		0	N.D.	d
55) TETRACHLOROETHENE	0.000		0	N.D.	d
56) 1,3-Dichloropropane	0.000		0	N.D.	d
57) 2-HEXANONE	0.000		0	N.D.	d
58) CHLORODIBROMOMETHANE	0.000		0	N.D.	
59) 1,2-DIBROMOETHANE	0.000		0	N.D.	
60) CHLOROBENZENE	0.000		0	N.D.	d
61) 1,1,1,2-TETRACHLOROETHANE	0.000		0	N.D.	d
62) ETHYLBENZENE	0.000		0	N.D.	d
63) M&P-XYLENE	0.000		0	N.D.	d
64) O-XYLENE	0.000		0	N.D.	d
65) STYRENE	0.000		0	N.D.	d
66) Bromoform	0.000		0	N.D.	
67) Isopropylbenzene	0.000		0	N.D.	d
69) Bromobenzene	0.000		0	N.D.	d
70) 1,1,2,2-TETRACHLOROETHANE	0.000		0	N.D.	d
71) 1,2,3-TRICHLOROPROPANE	0.000		0	N.D.	
72) TRANS-1,4-DICHLORO-2-B...	0.000		0	N.D.	d
73) n-Propylbenzene	0.000		0	N.D.	d
74) 4-ETHYLTOLUENE	0.000		0	N.D.	d
75) 2-Chlorotoluene	0.000		0	N.D.	
76) 4-Chlorotoluene	0.000		0	N.D.	d
77) 1,3,5-Trimethylbenzene	0.000		0	N.D.	d
78) tert-Butylbenzene	0.000		0	N.D.	d
79) 1,2,4-Trimethylbenzene	0.000		0	N.D.	d
80) sec-Butylbenzene	0.000		0	N.D.	d
81) 1,3-DICHLOROBENZENE	0.000		0	N.D.	d
82) p-Isopropyltoluene	0.000		0	N.D.	d
83) DICYCLOPENTADIENE	0.000		0	N.D.	d
85) 1,4-DICHLOROBENZENE	0.000		0	N.D.	d
86) 1,2,3-TRIMETHYLBENZENE	0.000		0	N.D.	d
87) 1,2-DICHLOROBENZENE	0.000		0	N.D.	d
88) n-Butylbenzene	0.000		0	N.D.	d
89) 1,2-Dibromo-3-chloropr...	0.000		0	N.D.	
90) 1,2,4-Trichlorobenzene	0.000		0	N.D.	d
91) HEXACHLORO-1,3-BUTADIENE	0.000		0	N.D.	
92) Naphthalene	0.000		0	N.D.	d
93) 1,2,3-Trichlorobenzene	0.000		0	N.D.	d
94) 1-Methylnaphthalene	0.000		0	N.D.	d
95) 2-Methylnaphthalene	0.000		0	N.D.	d

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\112414\
Data File : 1124 21.D
Acq On : 24 Nov 2014 11:14 pm
Operator : 644
Sample : STD VMS 7.5 ppb 14I02840
Misc : water IS/SURR14I25028
ALS Vial : 21 Sample Multiplier: 1
InstName : VOCMS7

Quant Time: Nov 25 13:56:03 2014
Quant Method : C:\msdchem\1\methods\V807K24N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS07
QLast Update : Tue Nov 25 13:52:28 2014
Response via : Initial Calibration

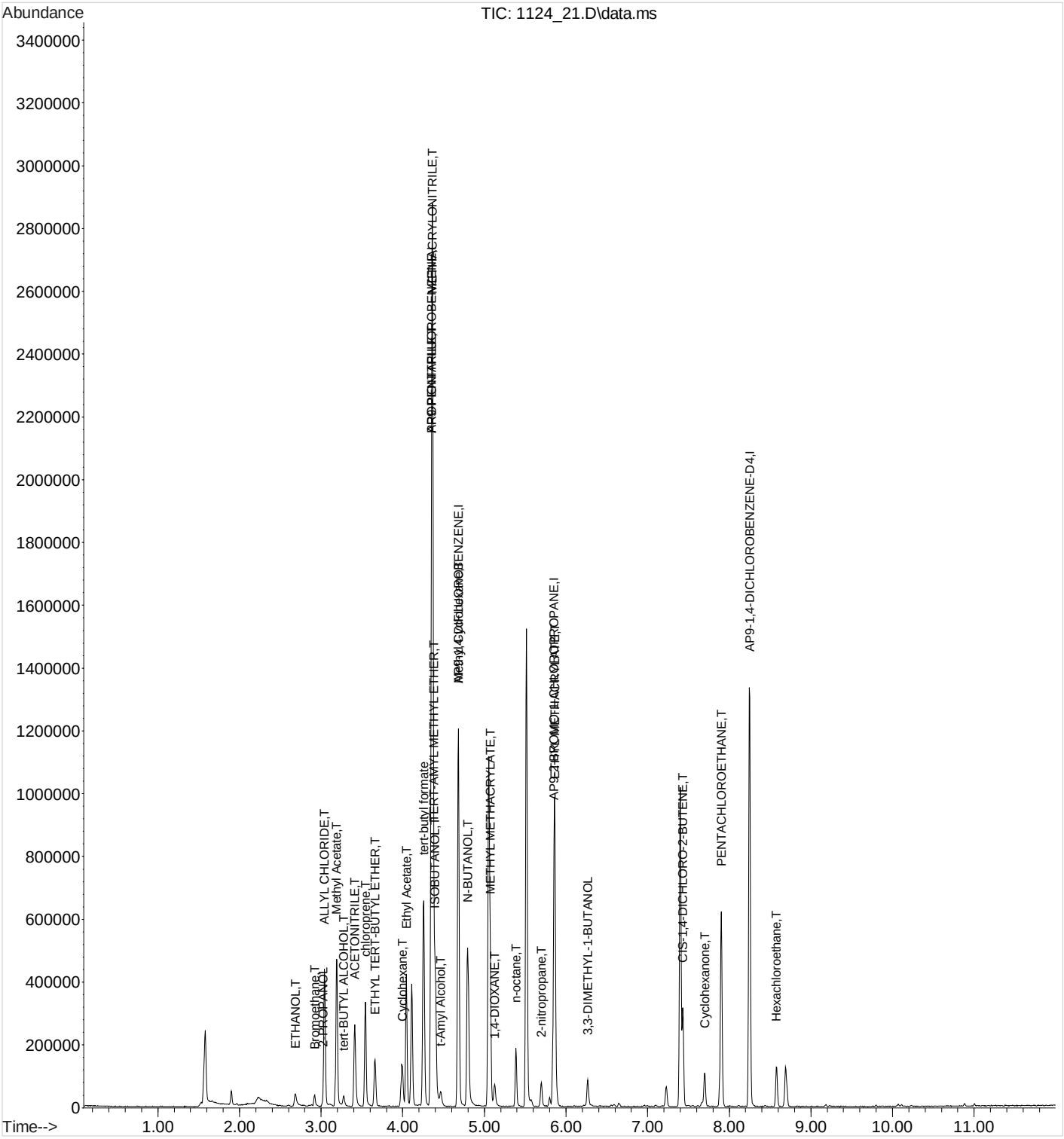
	Compound	R.T.	QIon	Response	Conc Units		Dev(Min)
97)	ETHANOL	2.686	45	54711	742.8261777 ppb		99
98)	Bromoethane	2.924	108	22396	7.2508302 ppb		97
99)	2-PROPANOL	3.021	45	14586	36.3265538 ppb		97
100)	Methyl Acetate	3.185	43	462825	150.9040469 ppb	#	100
101)	ACETONITRILE	3.410	41	237107	375.1165006 ppb		100
102)	ALLYL CHLORIDE	3.039	76	88575	37.5506156 ppb		97
103)	tert-BUTYL ALCOHOL	3.276	59	33113	39.3922497 ppb	#	92
104)	chloroprene	3.544	53	157006	38.2560460 ppb		98
105)	ETHYL TERT-BUTYL ETHER	3.660	59	109682	7.6695828 ppb		100
106)	PROPIONITRILE	4.353	54	247797	381.4511218 ppb	#	15
107)	Ethyl Acetate	4.043	43	342607	75.0562439 ppb		99
108)	METHACRYLONITRILE	4.365	67	733306	384.1161526 ppb		99
109)	Cyclohexane	3.994	84	44699	7.4909647 ppb		98
110)	tert-butyl formate	4.256	59	314359	75.0147080 ppb		100
111)	ISOBUTANOL	4.396	43	211543	758.5458082 ppb	#	85
112)	t-Amyl Alcohol	4.463	59	18872	37.6472129 ppb		98
113)	TERT-AMYL METHYL ETHER	4.384	73	93025	7.7111259 ppb	#	100
115)	N-BUTANOL	4.797	56	259407	1470.1397537 ppb		97
116)	Methyl Cyclohexane	4.682	83	62324	7.9019054 ppb		97
117)	2-nitropropane	5.698	43	47739	39.6311554 ppb		95
118)	METHYL METHACRYLATE	5.071	41	152080	37.7525034 ppb	#	100
119)	1,4-DIOXANE	5.126	88	46266	773.8774486 ppb	#	100
120)	n-octane	5.387	85	31507	7.6289854 ppb		98
121)	3,3-DIMETHYL-1-BUTANOL	6.263	57	38116	70.2072930 ppb		95
123)	ETHYL METHACRYLATE	5.862	69	245412	37.0598381 ppb		85
124)	CIS-1,4-DICHLORO-2-BUTENE	7.431	53	55441	35.6704743 ppb		97
125)	Cyclohexanone	7.699	55	43703	42.6969660 ppb		98
126)	PENTACHLOROETHANE	7.900	117	119106	37.7984509 ppb		99
127)	Hexachloroethane	8.575	117	27863	7.4569562 ppb		100

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\112414\
Data File : 1124 21.D
Acq On : 24 Nov 2014 11:14 pm
Operator : 644
Sample : STD VMS 7.5 ppb 14I02840
Misc : water IS/SURR14I25028
ALS Vial : 21 Sample Multiplier: 1
InstName : VOCMS7

Quant Time: Nov 25 13:56:03 2014
Quant Method : C:\msdchem\1\methods\V807K24N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS07
QLast Update : Tue Nov 25 13:52:28 2014
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\112414\
Data File : 1124 22.D
Acq On : 24 Nov 2014 11:34 pm
Operator : 644
Sample : STD VMS 10a ppb 14I02840
Misc : water IS/SURR14I25028
ALS Vial : 22 Sample Multiplier: 1
InstName : VOCMS7

Quant Time: Nov 25 13:56:44 2014
Quant Method : C:\msdchem\1\methods\V807K24N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS07
QLast Update : Tue Nov 25 13:52:28 2014
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 8260-PENTAFLUOROBENZENE	0.000	168	0m	40.0000000	ppb	-4.35
41) 8260-1,4-DIFLUOROBENZENE	0.000	114	0m	40.0000000	ppb	-4.68
53) 8260-2-BROMO-1-CHLOROP...	0.000	79	0m	40.0000000	ppb	-5.85
84) 8260-1,4-DICHLOROBENZE...	0.000	152	0m	40.0000000	ppb	-8.25
96) AP9-PENTAFLUOROBENZENE	4.347	168	375476	40.0000000	ppb	0.00
114) AP9-1,4-DIFLUOROBENZENE	4.682	114	705690	40.0000000	ppb	0.00
122) AP9-2-BROMO-1-CHLOROPR...	5.850	79	115009	40.0000000	ppb	0.00
128) AP9-1,4-DICHLOROBENZEN...	8.253	152	337141	40.0000000	ppb	0.00
System Monitoring Compounds						
33) DIBROMOFLUOROMETHANE	0.000	111	0d	0.0000000	ppb	
Spiked Amount 40.000	Range 78 - 121		Recovery = 0.00%#			
46) a,a,a-Trifluorotoluene	0.000	146	0d	0.0000000	ppb	
Spiked Amount 40.000	Range 85 - 114		Recovery = 0.00%#			
50) TOLUENE-D8	0.000	98	0d	0.0000000	ppb	
Spiked Amount 40.000	Range 89 - 111		Recovery = 0.00%#			
68) 4-BROMOFLUOROBENZENE	0.000	95	0d	0.0000000	ppb	
Spiked Amount 40.000	Range 71 - 126		Recovery = 0.00%#			

Target Compounds				Qvalue
2) TPH (GC/MS) LOW FRACTION	0.000	0	N.D. d	
3) PROPENE	0.000	0	N.D. d	
4) DICHLORODIFLUOROMETHANE	0.000	0	N.D.	
5) CHLOROMETHANE	0.000	0	N.D. d	
6) VINYL CHLORIDE	0.000	0	N.D.	
7) 1,3-BUTADIENE	0.000	0	N.D. d	
8) BROMOMETHANE	0.000	0	N.D. d	
9) CHLOROETHANE	0.000	0	N.D.	
10) TRICHLOROFLUOROMETHANE	0.000	0	N.D.	
11) DICHLOROFLUOROMETHANE	0.000	0	N.D. d	
12) ETHYL ETHER	0.000	0	N.D.	
13) ACROLEIN	0.000	0	N.D. d	
14) 1,1-DICHLOROETHENE	0.000	0	N.D.	
15) 1,1,2-TRICHLOROTRIFLUO...	0.000	0	N.D.	
16) ACETONE	0.000	0	N.D. d	
17) IODOMETHANE	0.000	0	N.D. d	
18) CARBON DISULFIDE	0.000	0	N.D. d	
19) METHYLENE CHLORIDE	0.000	0	N.D. d	
20) ACRYLONITRILE	0.000	0	N.D. d	
21) n-Hexane	0.000	0	N.D. d	
22) TRANS-1,2-DICHLOROETHENE	0.000	0	N.D.	
23) METHYL TERT-BUTYL ETHER	0.000	0	N.D. d	
24) 1,1-DICHLOROETHANE	0.000	0	N.D. d	
25) VINYL ACETATE	0.000	0	N.D. d	
26) DI-ISOPROPYL ETHER	0.000	0	N.D.	
27) 2,2-Dichloropropane	0.000	0	N.D. d	
28) CIS-1,2-DICHLOROETHENE	0.000	0	N.D.	
29) 2-BUTANONE (MEK)	0.000	0	N.D.	
30) BROMOCHLOROMETHANE	0.000	0	N.D.	
31) TETRAHYDROFURAN	0.000	0	N.D. d	
32) CHLOROFORM	0.000	0	N.D. d	
34) 1,1,1-TRICHLOROETHANE	0.000	0	N.D.	
35) CARBON TETRACHLORIDE	0.000	0	N.D.	

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\112414\
Data File : 1124 22.D
Acq On : 24 Nov 2014 11:34 pm
Operator : 644
Sample : STD VMS 10a ppb 14I02840
Misc : water IS/SURR14I25028
ALS Vial : 22 Sample Multiplier: 1
InstName : VOCMS7

Quant Time: Nov 25 13:56:44 2014
Quant Method : C:\msdchem\1\methods\V807K24N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS07
QLast Update : Tue Nov 25 13:52:28 2014
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
36) 1,1-Dichloropropene	0.000		0	N.D.	
37) 2,2,4-TRIMETHYLPENTANE	0.000		0	N.D.	d
38) HEPTANE	0.000		0	N.D.	d
39) BENZENE	0.000		0	N.D.	d
40) 1,2-DICHLOROETHANE	0.000		0	N.D.	d
42) TRICHLOROETHENE	0.000		0	N.D.	d
43) 1,2-DICHLOROPROPANE	0.000		0	N.D.	d
44) DIBROMOMETHANE	0.000		0	N.D.	
45) BROMODICHLOROMETHANE	0.000		0	N.D.	d
47) 2-CHLOROETHYL VINYL ETHER	0.000		0	N.D.	
48) CIS-1,3-DICHLOROPROPENE	0.000		0	N.D.	
49) 4-METHYL-2-PENTANONE (...	0.000		0	N.D.	d
51) TOLUENE	0.000		0	N.D.	d
52) TRANS-1,3-DICHLOROPROPENE	0.000		0	N.D.	
54) 1,1,2-TRICHLOROETHANE	0.000		0	N.D.	d
55) TETRACHLOROETHENE	0.000		0	N.D.	d
56) 1,3-Dichloropropane	0.000		0	N.D.	
57) 2-HEXANONE	0.000		0	N.D.	d
58) CHLORODIBROMOMETHANE	0.000		0	N.D.	
59) 1,2-DIBROMOETHANE	0.000		0	N.D.	
60) CHLOROBENZENE	0.000		0	N.D.	
61) 1,1,1,2-TETRACHLOROETHANE	0.000		0	N.D.	d
62) ETHYLBENZENE	0.000		0	N.D.	d
63) M&P-XYLENE	0.000		0	N.D.	d
64) O-XYLENE	0.000		0	N.D.	d
65) STYRENE	0.000		0	N.D.	d
66) Bromoform	0.000		0	N.D.	
67) Isopropylbenzene	0.000		0	N.D.	d
69) Bromobenzene	0.000		0	N.D.	d
70) 1,1,2,2-TETRACHLOROETHANE	0.000		0	N.D.	d
71) 1,2,3-TRICHLOROPROPANE	0.000		0	N.D.	
72) TRANS-1,4-DICHLORO-2-B...	0.000		0	N.D.	d
73) n-Propylbenzene	0.000		0	N.D.	d
74) 4-ETHYLTOLUENE	0.000		0	N.D.	d
75) 2-Chlorotoluene	0.000		0	N.D.	
76) 4-Chlorotoluene	0.000		0	N.D.	d
77) 1,3,5-Trimethylbenzene	0.000		0	N.D.	d
78) tert-Butylbenzene	0.000		0	N.D.	d
79) 1,2,4-Trimethylbenzene	0.000		0	N.D.	d
80) sec-Butylbenzene	0.000		0	N.D.	d
81) 1,3-DICHLOROBENZENE	0.000		0	N.D.	d
82) p-Isopropyltoluene	0.000		0	N.D.	d
83) DICYCLOPENTADIENE	0.000		0	N.D.	d
85) 1,4-DICHLOROBENZENE	0.000		0	N.D.	d
86) 1,2,3-TRIMETHYLBENZENE	0.000		0	N.D.	d
87) 1,2-DICHLOROBENZENE	0.000		0	N.D.	d
88) n-Butylbenzene	0.000		0	N.D.	d
89) 1,2-Dibromo-3-chloropr...	0.000		0	N.D.	
90) 1,2,4-Trichlorobenzene	0.000		0	N.D.	d
91) HEXACHLORO-1,3-BUTADIENE	0.000		0	N.D.	
92) Naphthalene	0.000		0	N.D.	d
93) 1,2,3-Trichlorobenzene	0.000		0	N.D.	d
94) 1-Methylnaphthalene	0.000		0	N.D.	d
95) 2-Methylnaphthalene	0.000		0	N.D.	d

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\112414\
Data File : 1124 22.D
Acq On : 24 Nov 2014 11:34 pm
Operator : 644
Sample : STD VMS 10a ppb 14I02840
Misc : water IS/SURR14I25028
ALS Vial : 22 Sample Multiplier: 1
InstName : VOCMS7

Quant Time: Nov 25 13:56:44 2014
Quant Method : C:\msdchem\1\methods\V807K24N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS07
QLast Update : Tue Nov 25 13:52:28 2014
Response via : Initial Calibration

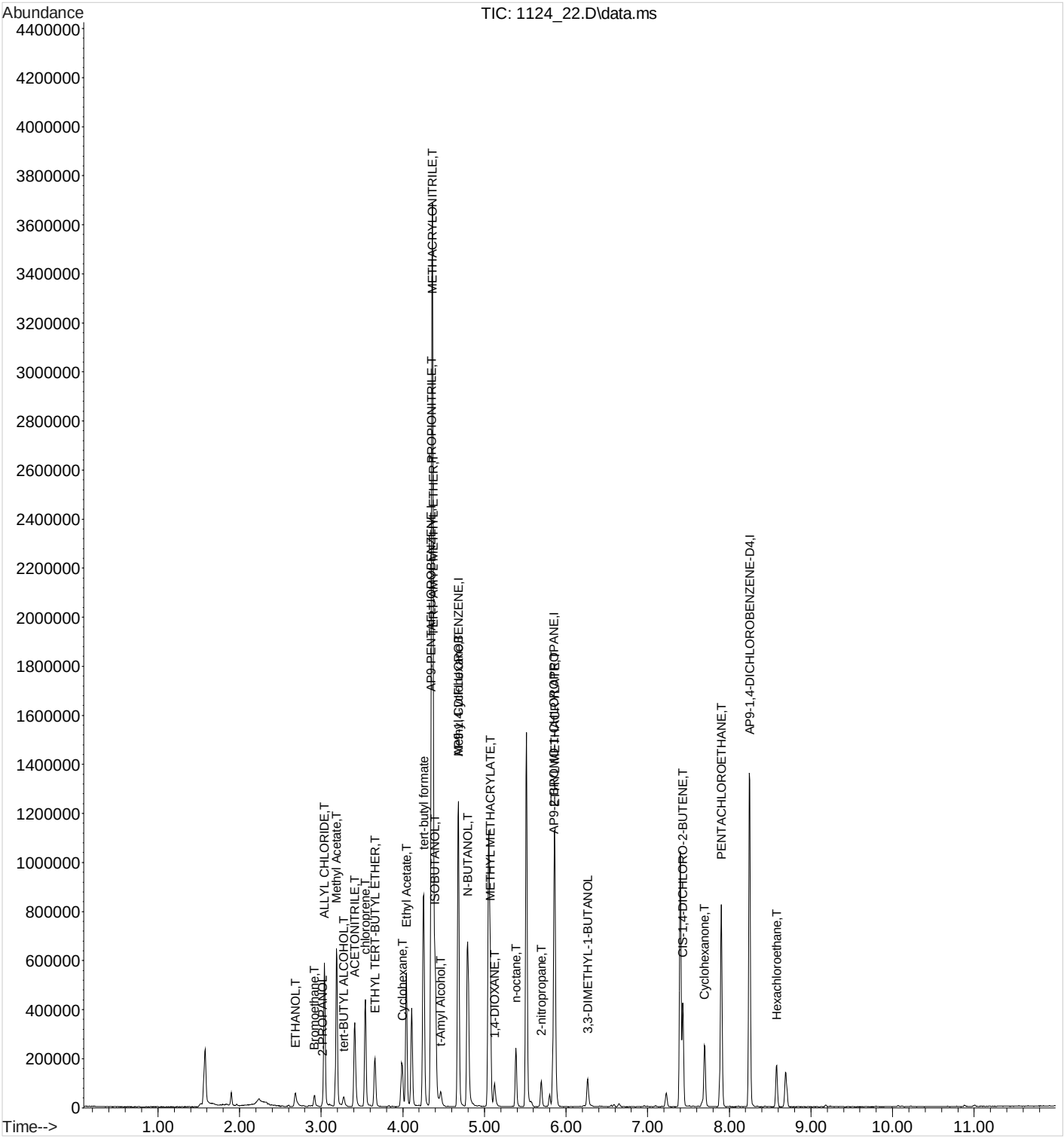
	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
97)	ETHANOL	2.686	45	73637	1000.0000000	ppb		100
98)	Bromoethane	2.917	108	30881	10.0000000	ppb		100
99)	2-PROPANOL	3.015	45	20072	50.0000000	ppb		100
100)	Methyl Acetate	3.185	43	613274	200.0000000	ppb	#	100
101)	ACETONITRILE	3.410	41	315978	500.0000000	ppb		100
102)	ALLYL CHLORIDE	3.039	76	117916	50.0000000	ppb		100
103)	tert-BUTYL ALCOHOL	3.276	59	42021	50.0000000	ppb		100
104)	chloroprene	3.544	53	205161	50.0000000	ppb		100
105)	ETHYL TERT-BUTYL ETHER	3.660	59	142979	10.0000000	ppb		100
106)	PROPIONITRILE	4.353	54	323604	498.2509084	ppb	#	38
107)	Ethyl Acetate	4.043	43	456371	100.0000000	ppb		100
108)	METHACRYLONITRILE	4.365	67	954336	500.0000000	ppb		100
109)	Cyclohexane	3.994	84	59658	10.0000000	ppb		100
110)	tert-butyl formate	4.256	59	418975	100.0000000	ppb		100
111)	ISOBUTANOL	4.396	43	274319	983.8534400	ppb	#	86
112)	t-Amyl Alcohol	4.463	59	25059	50.0000000	ppb		100
113)	TERT-AMYL METHYL ETHER	4.377	73	120612	10.0000000	ppb	#	100
115)	N-BUTANOL	4.797	56	356498	2000.0000000	ppb		100
116)	Methyl Cyclohexane	4.682	83	79676	10.0000000	ppb		100
117)	2-nitropropane	5.697	43	60843	50.0000000	ppb		100
118)	METHYL METHACRYLATE	5.071	41	199779	49.0929867	ppb	#	100
119)	1,4-DIOXANE	5.126	88	60396	1000.0331159	ppb	#	100
120)	n-octane	5.387	85	41720	10.0000000	ppb		100
121)	3,3-DIMETHYL-1-BUTANOL	6.263	57	54844	100.0000000	ppb		100
123)	ETHYL METHACRYLATE	5.862	69	324163	50.0000000	ppb		100
124)	CIS-1,4-DICHLORO-2-BUTENE	7.431	53	76084	50.0000000	ppb		100
125)	Cyclohexanone	7.693	55	100211	100.0000000	ppb		100
126)	PENTACHLOROETHANE	7.900	117	154252	50.0000000	ppb		100
127)	Hexachloroethane	8.581	117	36582	10.0000000	ppb		100

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\112414\
Data File : 1124 22.D
Acq On : 24 Nov 2014 11:34 pm
Operator : 644
Sample : STD VMS 10a ppb 14I02840
Misc : water IS/SURR14I25028
ALS Vial : 22 Sample Multiplier: 1
InstName : VOCMS7

Quant Time: Nov 25 13:56:44 2014
Quant Method : C:\msdchem\1\methods\V807K24N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS07
QLast Update : Tue Nov 25 13:52:28 2014
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\112414\
Data File : 1124 23.D
Acq On : 24 Nov 2014 11:53 pm
Operator : 644
Sample : STD VMS 12.5 ppb 14I02840
Misc : water IS/SURR14I25028
ALS Vial : 23 Sample Multiplier: 1
InstName : VOCMS7

Quant Time: Nov 25 13:57:24 2014
Quant Method : C:\msdchem\1\methods\V807K24N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS07
QLast Update : Tue Nov 25 13:52:28 2014
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 8260-PENTAFLUOROBENZENE	0.000	168	0m	40.0000000	ppb	-4.35
41) 8260-1,4-DIFLUOROBENZENE	0.000	114	0m	40.0000000	ppb	-4.68
53) 8260-2-BROMO-1-CHLOROP...	0.000	79	0m	40.0000000	ppb	-5.85
84) 8260-1,4-DICHLOROBENZE...	0.000	152	0m	40.0000000	ppb	-8.25
96) AP9-PENTAFLUOROBENZENE	4.347	168	373932	40.0000000	ppb	0.00
114) AP9-1,4-DIFLUOROBENZENE	4.682	114	693181	40.0000000	ppb	0.00
122) AP9-2-BROMO-1-CHLOROPR...	5.850	79	117266	40.0000000	ppb	0.00
128) AP9-1,4-DICHLOROBENZEN...	8.253	152	332599	40.0000000	ppb	0.00
System Monitoring Compounds						
33) DIBROMOFLUOROMETHANE	0.000	111	0d	0.0000000	ppb	
Spiked Amount 40.000	Range 78 - 121		Recovery = 0.00%#			
46) a,a,a-Trifluorotoluene	0.000	146	0d	0.0000000	ppb	
Spiked Amount 40.000	Range 85 - 114		Recovery = 0.00%#			
50) TOLUENE-D8	0.000	98	0d	0.0000000	ppb	
Spiked Amount 40.000	Range 89 - 111		Recovery = 0.00%#			
68) 4-BROMOFLUOROBENZENE	0.000	95	0d	0.0000000	ppb	
Spiked Amount 40.000	Range 71 - 126		Recovery = 0.00%#			

Target Compounds				Qvalue
2) TPH (GC/MS) LOW FRACTION	0.000	0	N.D. d	
3) PROPENE	0.000	0	N.D. d	
4) DICHLORODIFLUOROMETHANE	0.000	0	N.D.	
5) CHLOROMETHANE	0.000	0	N.D. d	
6) VINYL CHLORIDE	0.000	0	N.D.	
7) 1,3-BUTADIENE	0.000	0	N.D. d	
8) BROMOMETHANE	0.000	0	N.D. d	
9) CHLOROETHANE	0.000	0	N.D. d	
10) TRICHLOROFLUOROMETHANE	0.000	0	N.D.	
11) DICHLOROFLUOROMETHANE	0.000	0	N.D. d	
12) ETHYL ETHER	0.000	0	N.D.	
13) ACROLEIN	0.000	0	N.D.	
14) 1,1-DICHLOROETHENE	0.000	0	N.D.	
15) 1,1,2-TRICHLOROTRIFLUO...	0.000	0	N.D.	
16) ACETONE	0.000	0	N.D. d	
17) IODOMETHANE	0.000	0	N.D. d	
18) CARBON DISULFIDE	0.000	0	N.D. d	
19) METHYLENE CHLORIDE	0.000	0	N.D. d	
20) ACRYLONITRILE	0.000	0	N.D. d	
21) n-Hexane	0.000	0	N.D. d	
22) TRANS-1,2-DICHLOROETHENE	0.000	0	N.D.	
23) METHYL TERT-BUTYL ETHER	0.000	0	N.D. d	
24) 1,1-DICHLOROETHANE	0.000	0	N.D. d	
25) VINYL ACETATE	0.000	0	N.D. d	
26) DI-ISOPROPYL ETHER	0.000	0	N.D. d	
27) 2,2-Dichloropropane	0.000	0	N.D. d	
28) CIS-1,2-DICHLOROETHENE	0.000	0	N.D.	
29) 2-BUTANONE (MEK)	0.000	0	N.D. d	
30) BROMOCHLOROMETHANE	0.000	0	N.D.	
31) TETRAHYDROFURAN	0.000	0	N.D. d	
32) CHLOROFORM	0.000	0	N.D. d	
34) 1,1,1-TRICHLOROETHANE	0.000	0	N.D.	
35) CARBON TETRACHLORIDE	0.000	0	N.D.	

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\112414\
Data File : 1124 23.D
Acq On : 24 Nov 2014 11:53 pm
Operator : 644
Sample : STD VMS 12.5 ppb 14I02840
Misc : water IS/SURR14I25028
ALS Vial : 23 Sample Multiplier: 1
InstName : VOCMS7

Quant Time: Nov 25 13:57:24 2014
Quant Method : C:\msdchem\1\methods\V807K24N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS07
QLast Update : Tue Nov 25 13:52:28 2014
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
36) 1,1-Dichloropropene	0.000		0	N.D.	
37) 2,2,4-TRIMETHYLPENTANE	0.000		0	N.D.	d
38) HEPTANE	0.000		0	N.D.	d
39) BENZENE	0.000		0	N.D.	
40) 1,2-DICHLOROETHANE	0.000		0	N.D.	d
42) TRICHLOROETHENE	0.000		0	N.D.	d
43) 1,2-DICHLOROPROPANE	0.000		0	N.D.	d
44) DIBROMOMETHANE	0.000		0	N.D.	
45) BROMODICHLOROMETHANE	0.000		0	N.D.	d
47) 2-CHLOROETHYL VINYL ETHER	0.000		0	N.D.	
48) CIS-1,3-DICHLOROPROPENE	0.000		0	N.D.	
49) 4-METHYL-2-PENTANONE (...	0.000		0	N.D.	d
51) TOLUENE	0.000		0	N.D.	d
52) TRANS-1,3-DICHLOROPROPENE	0.000		0	N.D.	
54) 1,1,2-TRICHLOROETHANE	0.000		0	N.D.	d
55) TETRACHLOROETHENE	0.000		0	N.D.	d
56) 1,3-Dichloropropane	0.000		0	N.D.	d
57) 2-HEXANONE	0.000		0	N.D.	d
58) CHLORODIBROMOMETHANE	0.000		0	N.D.	
59) 1,2-DIBROMOETHANE	0.000		0	N.D.	
60) CHLOROBENZENE	0.000		0	N.D.	d
61) 1,1,1,2-TETRACHLOROETHANE	0.000		0	N.D.	d
62) ETHYLBENZENE	0.000		0	N.D.	d
63) M&P-XYLENE	0.000		0	N.D.	d
64) O-XYLENE	0.000		0	N.D.	d
65) STYRENE	0.000		0	N.D.	d
66) Bromoform	0.000		0	N.D.	
67) Isopropylbenzene	0.000		0	N.D.	d
69) Bromobenzene	0.000		0	N.D.	d
70) 1,1,2,2-TETRACHLOROETHANE	0.000		0	N.D.	d
71) 1,2,3-TRICHLOROPROPANE	0.000		0	N.D.	
72) TRANS-1,4-DICHLORO-2-B...	0.000		0	N.D.	d
73) n-Propylbenzene	0.000		0	N.D.	d
74) 4-ETHYLTOLUENE	0.000		0	N.D.	d
75) 2-Chlorotoluene	0.000		0	N.D.	
76) 4-Chlorotoluene	0.000		0	N.D.	d
77) 1,3,5-Trimethylbenzene	0.000		0	N.D.	d
78) tert-Butylbenzene	0.000		0	N.D.	d
79) 1,2,4-Trimethylbenzene	0.000		0	N.D.	d
80) sec-Butylbenzene	0.000		0	N.D.	d
81) 1,3-DICHLOROBENZENE	0.000		0	N.D.	d
82) p-Isopropyltoluene	0.000		0	N.D.	d
83) DICYCLOPENTADIENE	0.000		0	N.D.	d
85) 1,4-DICHLOROBENZENE	0.000		0	N.D.	d
86) 1,2,3-TRIMETHYLBENZENE	0.000		0	N.D.	d
87) 1,2-DICHLOROBENZENE	0.000		0	N.D.	d
88) n-Butylbenzene	0.000		0	N.D.	d
89) 1,2-Dibromo-3-chloropr...	0.000		0	N.D.	
90) 1,2,4-Trichlorobenzene	0.000		0	N.D.	d
91) HEXACHLORO-1,3-BUTADIENE	0.000		0	N.D.	
92) Naphthalene	0.000		0	N.D.	d
93) 1,2,3-Trichlorobenzene	0.000		0	N.D.	d
94) 1-Methylnaphthalene	0.000		0	N.D.	d
95) 2-Methylnaphthalene	0.000		0	N.D.	d

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\112414\
Data File : 1124 23.D
Acq On : 24 Nov 2014 11:53 pm
Operator : 644
Sample : STD VMS 12.5 ppb 14I02840
Misc : water IS/SURR14I25028
ALS Vial : 23 Sample Multiplier: 1
InstName : VOCMS7

Quant Time: Nov 25 13:57:24 2014
Quant Method : C:\msdchem\1\methods\V807K24N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS07
QLast Update : Tue Nov 25 13:52:28 2014
Response via : Initial Calibration

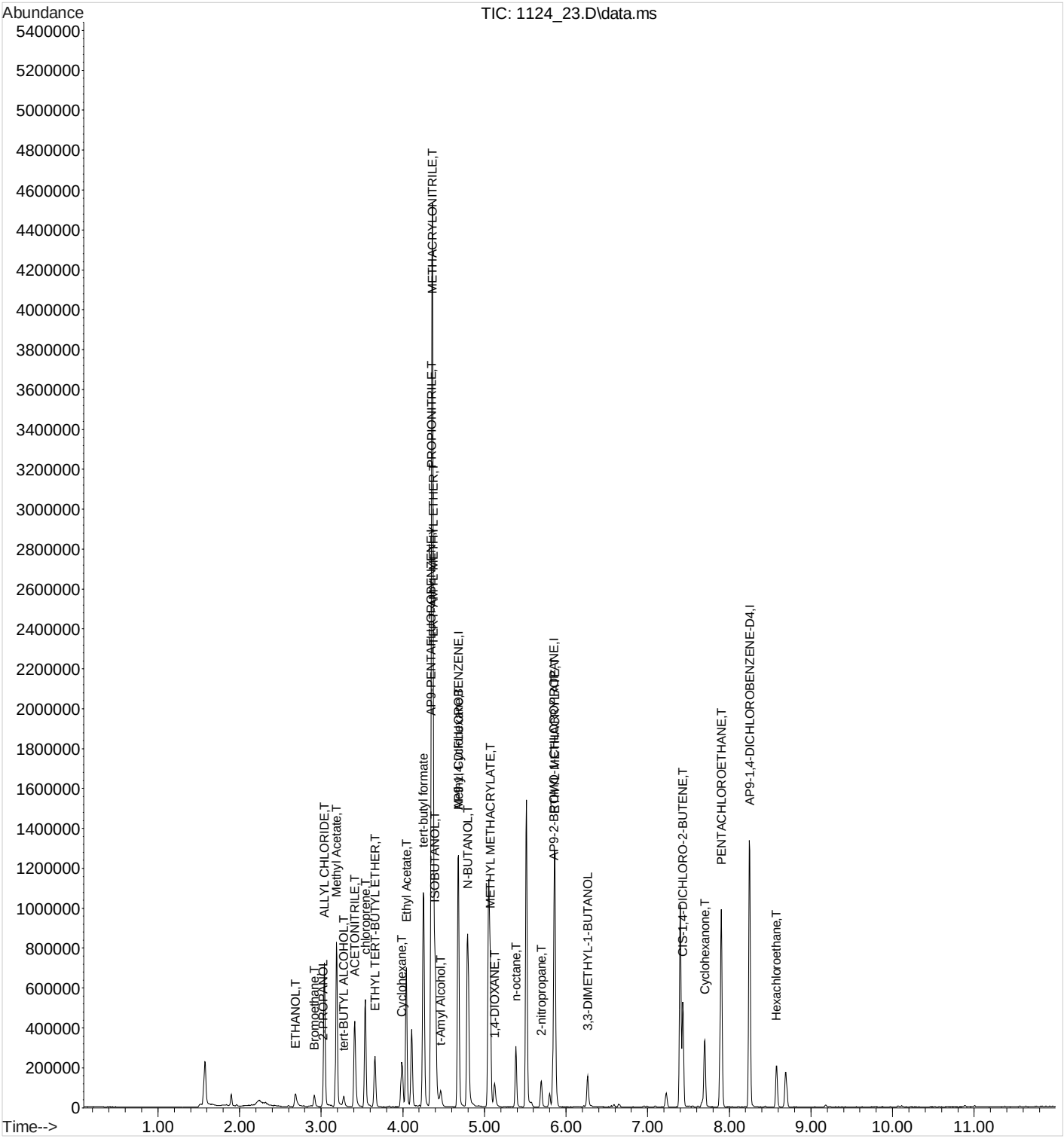
	Compound	R.T.	QIon	Response	Conc Units		Dev(Min)
97)	ETHANOL	2.686	45	92587	1262.5351431 ppb		98
98)	Bromoethane	2.917	108	37101	12.0637912 ppb		98
99)	2-PROPANOL	3.021	45	24737	61.8751031 ppb		98
100)	Methyl Acetate	3.185	43	778302	254.8667256 ppb	#	100
101)	ACETONITRILE	3.410	41	400894	636.9894876 ppb		100
102)	ALLYL CHLORIDE	3.039	76	144124	61.3653369 ppb		98
103)	tert-BUTYL ALCOHOL	3.276	59	54668	65.3170192 ppb		95
104)	chloroprene	3.544	53	257928	63.1194546 ppb		98
105)	ETHYL TERT-BUTYL ETHER	3.660	59	181825	12.7694118 ppb		98
106)	PROPIONITRILE	4.353	54	408831	632.0735068 ppb	#	39
107)	Ethyl Acetate	4.043	43	576502	126.8447010 ppb		99
108)	METHACRYLONITRILE	4.365	67	1198338	630.4310269 ppb		99
109)	Cyclohexane	3.988	84	74723	12.5769450 ppb		100
110)	tert-butyl formate	4.250	59	520913	124.8437015 ppb		99
111)	ISOBUTANOL	4.396	43	355716	1281.0540972 ppb	#	86
112)	t-Amyl Alcohol	4.463	59	34247	68.6148870 ppb		97
113)	TERT-AMYL METHYL ETHER	4.377	73	151090	12.5786708 ppb	#	96
115)	N-BUTANOL	4.797	56	456549	2607.5197516 ppb		100
116)	Methyl Cyclohexane	4.682	83	95115	12.1531484 ppb		100
117)	2-nitropropane	5.698	43	77592	64.9147881 ppb		97
118)	METHYL METHACRYLATE	5.071	41	250412	62.6458158 ppb	#	100
119)	1,4-DIOXANE	5.126	88	80494	1356.8662113 ppb	#	100
120)	n-octane	5.387	85	52122	12.7187399 ppb		100
121)	3,3-DIMETHYL-1-BUTANOL	6.263	57	70900	131.6086475 ppb		97
123)	ETHYL METHACRYLATE	5.862	69	410187	62.0509121 ppb		89
124)	CIS-1,4-DICHLORO-2-BUTENE	7.431	53	94697	61.0341083 ppb		100
125)	Cyclohexanone	7.699	55	133076	130.2399013 ppb		97
126)	PENTACHLOROETHANE	7.900	117	191374	60.8389697 ppb		98
127)	Hexachloroethane	8.575	117	45810	12.2815325 ppb		97

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\112414\
Data File : 1124 23.D
Acq On : 24 Nov 2014 11:53 pm
Operator : 644
Sample : STD VMS 12.5 ppb 14I02840
Misc : water IS/SURR14I25028
ALS Vial : 23 Sample Multiplier: 1
InstName : VOCMS7

Quant Time: Nov 25 13:57:24 2014
Quant Method : C:\msdchem\1\methods\V807K24N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS07
QLast Update : Tue Nov 25 13:52:28 2014
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\112414\
Data File : 1124 24.D
Acq On : 25 Nov 2014 12:12 am
Operator : 644
Sample : STD VMS 15 ppb 14I02840
Misc : water IS/SURR14I25028
ALS Vial : 24 Sample Multiplier: 1
InstName : VOCMS7

Quant Time: Nov 25 13:58:04 2014
Quant Method : C:\msdchem\1\methods\V807K24N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS07
QLast Update : Tue Nov 25 13:52:28 2014
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 8260-PENTAFLUOROBENZENE	0.000	168	0m	40.0000000	ppb	-4.35
41) 8260-1,4-DIFLUOROBENZENE	0.000	114	0m	40.0000000	ppb	-4.68
53) 8260-2-BROMO-1-CHLOROP...	0.000	79	0m	40.0000000	ppb	-5.85
84) 8260-1,4-DICHLOROBENZE...	0.000	152	0m	40.0000000	ppb	-8.25
96) AP9-PENTAFLUOROBENZENE	4.347	168	370744	40.0000000	ppb	0.00
114) AP9-1,4-DIFLUOROBENZENE	4.682	114	695065	40.0000000	ppb	0.00
122) AP9-2-BROMO-1-CHLOROPR...	5.850	79	114994	40.0000000	ppb	# 0.00
128) AP9-1,4-DICHLOROBENZEN...	8.253	152	335397	40.0000000	ppb	0.00
System Monitoring Compounds						
33) DIBROMOFLUOROMETHANE	0.000	111	0d	0.0000000	ppb	
Spiked Amount 40.000	Range 78 - 121		Recovery = 0.00%#			
46) a,a,a-Trifluorotoluene	0.000	146	0d	0.0000000	ppb	
Spiked Amount 40.000	Range 85 - 114		Recovery = 0.00%#			
50) TOLUENE-D8	0.000	98	0d	0.0000000	ppb	
Spiked Amount 40.000	Range 89 - 111		Recovery = 0.00%#			
68) 4-BROMOFLUOROBENZENE	0.000	95	0d	0.0000000	ppb	
Spiked Amount 40.000	Range 71 - 126		Recovery = 0.00%#			

Target Compounds				Qvalue
2) TPH (GC/MS) LOW FRACTION	0.000	0	N.D. d	
3) PROPENE	0.000	0	N.D. d	
4) DICHLORODIFLUOROMETHANE	0.000	0	N.D.	
5) CHLOROMETHANE	0.000	0	N.D. d	
6) VINYL CHLORIDE	0.000	0	N.D.	
7) 1,3-BUTADIENE	0.000	0	N.D. d	
8) BROMOMETHANE	0.000	0	N.D. d	
9) CHLOROETHANE	0.000	0	N.D. d	
10) TRICHLOROFLUOROMETHANE	0.000	0	N.D.	
11) DICHLOROFLUOROMETHANE	0.000	0	N.D. d	
12) ETHYL ETHER	0.000	0	N.D.	
13) ACROLEIN	0.000	0	N.D. d	
14) 1,1-DICHLOROETHENE	0.000	0	N.D.	
15) 1,1,2-TRICHLOROTRIFLUO...	0.000	0	N.D.	
16) ACETONE	0.000	0	N.D. d	
17) IODOMETHANE	0.000	0	N.D. d	
18) CARBON DISULFIDE	0.000	0	N.D. d	
19) METHYLENE CHLORIDE	0.000	0	N.D. d	
20) ACRYLONITRILE	0.000	0	N.D. d	
21) n-Hexane	0.000	0	N.D. d	
22) TRANS-1,2-DICHLOROETHENE	0.000	0	N.D.	
23) METHYL TERT-BUTYL ETHER	0.000	0	N.D. d	
24) 1,1-DICHLOROETHANE	0.000	0	N.D. d	
25) VINYL ACETATE	0.000	0	N.D. d	
26) DI-ISOPROPYL ETHER	0.000	0	N.D. d	
27) 2,2-Dichloropropane	0.000	0	N.D. d	
28) CIS-1,2-DICHLOROETHENE	0.000	0	N.D.	
29) 2-BUTANONE (MEK)	0.000	0	N.D.	
30) BROMOCHLOROMETHANE	0.000	0	N.D.	
31) TETRAHYDROFURAN	0.000	0	N.D. d	
32) CHLOROFORM	0.000	0	N.D. d	
34) 1,1,1-TRICHLOROETHANE	0.000	0	N.D.	
35) CARBON TETRACHLORIDE	0.000	0	N.D.	

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\112414\
Data File : 1124 24.D
Acq On : 25 Nov 2014 12:12 am
Operator : 644
Sample : STD VMS 15 ppb 14I02840
Misc : water IS/SURR14I25028
ALS Vial : 24 Sample Multiplier: 1
InstName : VOCMS7

Quant Time: Nov 25 13:58:04 2014
Quant Method : C:\msdchem\1\methods\V807K24N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS07
QLast Update : Tue Nov 25 13:52:28 2014
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
36) 1,1-Dichloropropene	0.000		0	N.D.	
37) 2,2,4-TRIMETHYLPENTANE	0.000		0	N.D.	d
38) HEPTANE	0.000		0	N.D.	d
39) BENZENE	0.000		0	N.D.	d
40) 1,2-DICHLOROETHANE	0.000		0	N.D.	d
42) TRICHLOROETHENE	0.000		0	N.D.	d
43) 1,2-DICHLOROPROPANE	0.000		0	N.D.	d
44) DIBROMOMETHANE	0.000		0	N.D.	
45) BROMODICHLOROMETHANE	0.000		0	N.D.	d
47) 2-CHLOROETHYL VINYL ETHER	0.000		0	N.D.	
48) CIS-1,3-DICHLOROPROPENE	0.000		0	N.D.	
49) 4-METHYL-2-PENTANONE (...	0.000		0	N.D.	d
51) TOLUENE	0.000		0	N.D.	d
52) TRANS-1,3-DICHLOROPROPENE	0.000		0	N.D.	
54) 1,1,2-TRICHLOROETHANE	0.000		0	N.D.	d
55) TETRACHLOROETHENE	0.000		0	N.D.	d
56) 1,3-Dichloropropane	0.000		0	N.D.	d
57) 2-HEXANONE	0.000		0	N.D.	d
58) CHLORODIBROMOMETHANE	0.000		0	N.D.	
59) 1,2-DIBROMOETHANE	0.000		0	N.D.	
60) CHLOROBENZENE	0.000		0	N.D.	d
61) 1,1,1,2-TETRACHLOROETHANE	0.000		0	N.D.	d
62) ETHYLBENZENE	0.000		0	N.D.	d
63) M&P-XYLENE	0.000		0	N.D.	d
64) O-XYLENE	0.000		0	N.D.	d
65) STYRENE	0.000		0	N.D.	d
66) Bromoform	0.000		0	N.D.	
67) Isopropylbenzene	0.000		0	N.D.	d
69) Bromobenzene	0.000		0	N.D.	d
70) 1,1,2,2-TETRACHLOROETHANE	0.000		0	N.D.	d
71) 1,2,3-TRICHLOROPROPANE	0.000		0	N.D.	
72) TRANS-1,4-DICHLORO-2-B...	0.000		0	N.D.	d
73) n-Propylbenzene	0.000		0	N.D.	d
74) 4-ETHYLTOLUENE	0.000		0	N.D.	d
75) 2-Chlorotoluene	0.000		0	N.D.	
76) 4-Chlorotoluene	0.000		0	N.D.	d
77) 1,3,5-Trimethylbenzene	0.000		0	N.D.	d
78) tert-Butylbenzene	0.000		0	N.D.	d
79) 1,2,4-Trimethylbenzene	0.000		0	N.D.	d
80) sec-Butylbenzene	0.000		0	N.D.	d
81) 1,3-DICHLOROBENZENE	0.000		0	N.D.	d
82) p-Isopropyltoluene	0.000		0	N.D.	d
83) DICYCLOPENTADIENE	0.000		0	N.D.	d
85) 1,4-DICHLOROBENZENE	0.000		0	N.D.	d
86) 1,2,3-TRIMETHYLBENZENE	0.000		0	N.D.	d
87) 1,2-DICHLOROBENZENE	0.000		0	N.D.	d
88) n-Butylbenzene	0.000		0	N.D.	d
89) 1,2-Dibromo-3-chloropr...	0.000		0	N.D.	
90) 1,2,4-Trichlorobenzene	0.000		0	N.D.	d
91) HEXACHLORO-1,3-BUTADIENE	0.000		0	N.D.	
92) Naphthalene	0.000		0	N.D.	d
93) 1,2,3-Trichlorobenzene	0.000		0	N.D.	d
94) 1-Methylnaphthalene	0.000		0	N.D.	d
95) 2-Methylnaphthalene	0.000		0	N.D.	d

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\112414\
Data File : 1124 24.D
Acq On : 25 Nov 2014 12:12 am
Operator : 644
Sample : STD VMS 15 ppb 14I02840
Misc : water IS/SURR14I25028
ALS Vial : 24 Sample Multiplier: 1
InstName : VOCMS7

Quant Time: Nov 25 13:58:04 2014
Quant Method : C:\msdchem\1\methods\V807K24N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS07
QLast Update : Tue Nov 25 13:52:28 2014
Response via : Initial Calibration

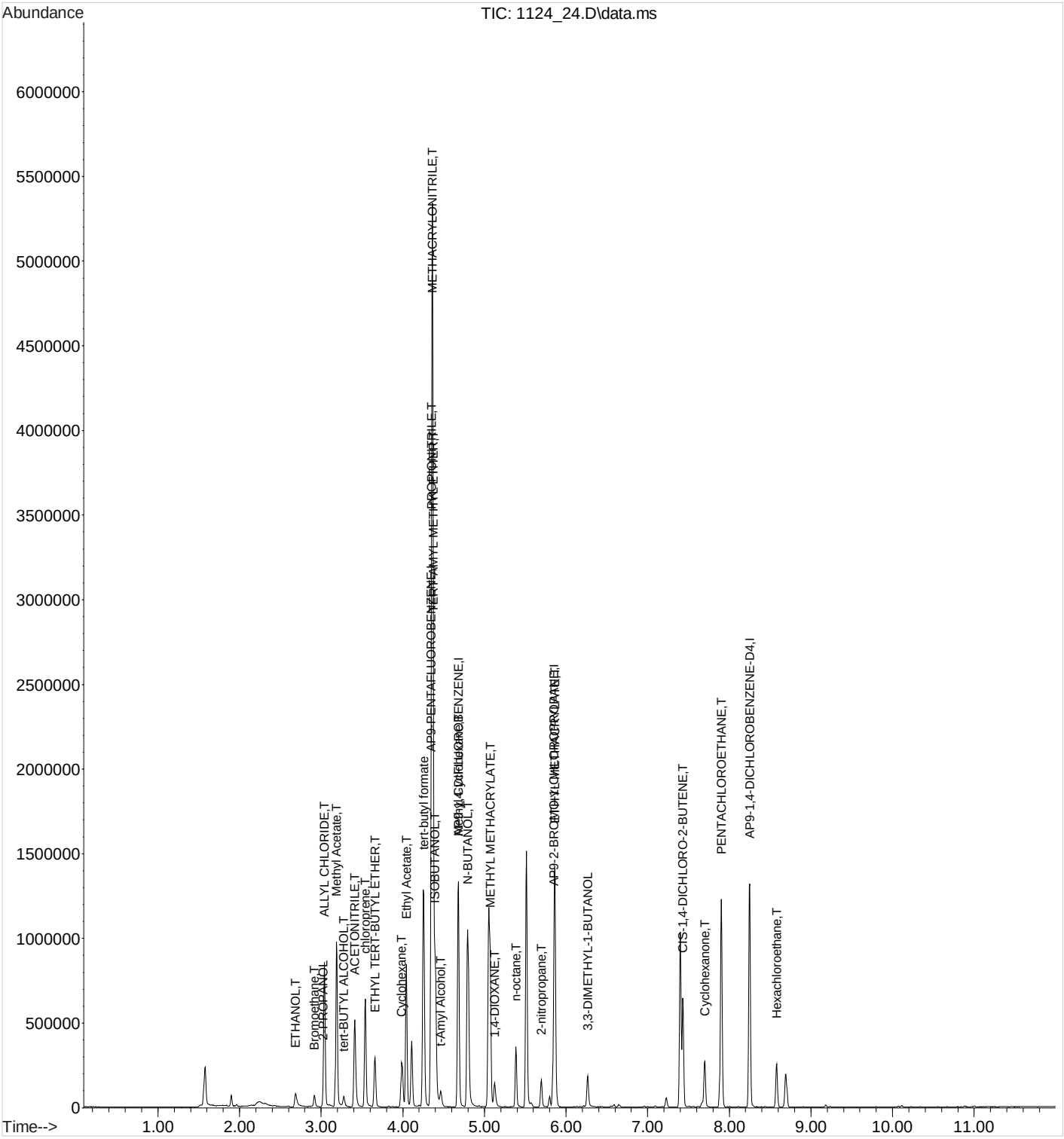
	Compound	R.T.	QIon	Response	Conc Units		Dev(Min)
97)	ETHANOL	2.686	45	113170	1556.4790530 ppb		98
98)	Bromoethane	2.917	108	43304	14.2018431 ppb		96
99)	2-PROPANOL	3.021	45	29069	73.3360474 ppb		93
100)	Methyl Acetate	3.185	43	922651	304.7340270 ppb	#	99
101)	ACETONITRILE	3.410	41	482297	772.9221804 ppb		99
102)	ALLYL CHLORIDE	3.039	76	174569	74.9673987 ppb		98
103)	tert-BUTYL ALCOHOL	3.276	59	62878	75.7722863 ppb	#	92
104)	chloroprene	3.544	53	304085	75.0547610 ppb		98
105)	ETHYL TERT-BUTYL ETHER	3.659	59	215639	15.2743629 ppb		98
106)	PROPIONITRILE	4.353	54	489492	763.2870034 ppb	#	20
107)	Ethyl Acetate	4.043	43	690277	153.1840032 ppb		99
108)	METHACRYLONITRILE	4.365	67	1424125	755.6572600 ppb		98
109)	Cyclohexane	3.988	84	88088	14.9539564 ppb		97
110)	tert-butyl formate	4.256	59	619157	149.6651651 ppb		100
111)	ISOBUTANOL	4.396	43	418658	1520.6944653 ppb	#	86
112)	t-Amyl Alcohol	4.463	59	38666	78.1346311 ppb		96
113)	TERT-AMYL METHYL ETHER	4.377	73	176719	14.8388682 ppb	#	95
115)	N-BUTANOL	4.797	56	541360	3083.5259277 ppb		98
116)	Methyl Cyclohexane	4.682	83	113938	14.5187629 ppb		99
117)	2-nitropropane	5.697	43	95001	79.2640218 ppb		97
118)	METHYL METHACRYLATE	5.071	41	305392	76.1931307 ppb	#	100
119)	1,4-DIOXANE	5.126	88	96459	1621.5767308 ppb	#	100
120)	n-octane	5.387	85	62046	15.0993423 ppb		98
121)	3,3-DIMETHYL-1-BUTANOL	6.263	57	84473	156.3786066 ppb		100
123)	ETHYL METHACRYLATE	5.862	69	485516	74.8974022 ppb		83
124)	CIS-1,4-DICHLORO-2-BUTENE	7.431	53	113547	74.6292330 ppb		98
125)	Cyclohexanone	7.699	55	107378	107.1658865 ppb		98
126)	PENTACHLOROETHANE	7.900	117	233080	75.5615497 ppb		99
127)	Hexachloroethane	8.581	117	55632	15.2094628 ppb		99

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\112414\
Data File : 1124 24.D
Acq On : 25 Nov 2014 12:12 am
Operator : 644
Sample : STD VMS 15 ppb 14I02840
Misc : water IS/SURR14I25028
ALS Vial : 24 Sample Multiplier: 1
InstName : VOCMS7

Quant Time: Nov 25 13:58:04 2014
Quant Method : C:\msdchem\1\methods\V807K24N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS07
QLast Update : Tue Nov 25 13:52:28 2014
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\112414\
Data File : 1124 25.D
Acq On : 25 Nov 2014 12:32 am
Operator : 644
Sample : STD VMS 17.5 ppb 14I02840
Misc : water IS/SURR14I25028
ALS Vial : 25 Sample Multiplier: 1
InstName : VOCMS7

Quant Time: Nov 25 13:58:48 2014
Quant Method : C:\msdchem\1\methods\V807K24N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS07
QLast Update : Tue Nov 25 13:52:28 2014
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 8260-PENTAFLUOROBENZENE	0.000	168	0m	40.0000000	ppb	-4.35
41) 8260-1,4-DIFLUOROBENZENE	0.000	114	0m	40.0000000	ppb	-4.68
53) 8260-2-BROMO-1-CHLOROP...	0.000	79	0m	40.0000000	ppb	-5.85
84) 8260-1,4-DICHLOROBENZE...	0.000	152	0m	40.0000000	ppb	-8.25
96) AP9-PENTAFLUOROBENZENE	4.347	168	373608	40.0000000	ppb	0.00
114) AP9-1,4-DIFLUOROBENZENE	4.682	114	689474	40.0000000	ppb	0.00
122) AP9-2-BROMO-1-CHLOROPR...	5.850	79	113524	40.0000000	ppb	# 0.00
128) AP9-1,4-DICHLOROBENZEN...	8.253	152	335052	40.0000000	ppb	0.00
System Monitoring Compounds						
33) DIBROMOFLUOROMETHANE	0.000	111	0d	0.0000000	ppb	
Spiked Amount 40.000	Range 78 - 121		Recovery = 0.00%#			
46) a,a,a-Trifluorotoluene	0.000	146	0d	0.0000000	ppb	
Spiked Amount 40.000	Range 85 - 114		Recovery = 0.00%#			
50) TOLUENE-D8	0.000	98	0d	0.0000000	ppb	
Spiked Amount 40.000	Range 89 - 111		Recovery = 0.00%#			
68) 4-BROMOFLUOROBENZENE	0.000	95	0d	0.0000000	ppb	
Spiked Amount 40.000	Range 71 - 126		Recovery = 0.00%#			

Target Compounds				Qvalue
2) TPH (GC/MS) LOW FRACTION	0.000	0	N.D. d	
3) PROPENE	0.000	0	N.D. d	
4) DICHLORODIFLUOROMETHANE	0.000	0	N.D.	
5) CHLOROMETHANE	0.000	0	N.D. d	
6) VINYL CHLORIDE	0.000	0	N.D.	
7) 1,3-BUTADIENE	0.000	0	N.D. d	
8) BROMOMETHANE	0.000	0	N.D. d	
9) CHLOROETHANE	0.000	0	N.D.	
10) TRICHLOROFLUOROMETHANE	0.000	0	N.D.	
11) DICHLOROFLUOROMETHANE	0.000	0	N.D. d	
12) ETHYL ETHER	0.000	0	N.D.	
13) ACROLEIN	0.000	0	N.D. d	
14) 1,1-DICHLOROETHENE	0.000	0	N.D.	
15) 1,1,2-TRICHLOROTRIFLUO...	0.000	0	N.D.	
16) ACETONE	0.000	0	N.D. d	
17) IODOMETHANE	0.000	0	N.D. d	
18) CARBON DISULFIDE	0.000	0	N.D. d	
19) METHYLENE CHLORIDE	0.000	0	N.D. d	
20) ACRYLONITRILE	0.000	0	N.D. d	
21) n-Hexane	0.000	0	N.D. d	
22) TRANS-1,2-DICHLOROETHENE	0.000	0	N.D.	
23) METHYL TERT-BUTYL ETHER	0.000	0	N.D. d	
24) 1,1-DICHLOROETHANE	0.000	0	N.D. d	
25) VINYL ACETATE	0.000	0	N.D. d	
26) DI-ISOPROPYL ETHER	0.000	0	N.D. d	
27) 2,2-Dichloropropane	0.000	0	N.D. d	
28) CIS-1,2-DICHLOROETHENE	0.000	0	N.D.	
29) 2-BUTANONE (MEK)	0.000	0	N.D. d	
30) BROMOCHLOROMETHANE	0.000	0	N.D.	
31) TETRAHYDROFURAN	0.000	0	N.D. d	
32) CHLOROFORM	0.000	0	N.D. d	
34) 1,1,1-TRICHLOROETHANE	0.000	0	N.D.	
35) CARBON TETRACHLORIDE	0.000	0	N.D.	

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\112414\
Data File : 1124 25.D
Acq On : 25 Nov 2014 12:32 am
Operator : 644
Sample : STD VMS 17.5 ppb 14I02840
Misc : water IS/SURR14I25028
ALS Vial : 25 Sample Multiplier: 1
InstName : VOCMS7

Quant Time: Nov 25 13:58:48 2014
Quant Method : C:\msdchem\1\methods\V807K24N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS07
QLast Update : Tue Nov 25 13:52:28 2014
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
36) 1,1-Dichloropropene	0.000		0	N.D.	
37) 2,2,4-TRIMETHYLPENTANE	0.000		0	N.D.	d
38) HEPTANE	0.000		0	N.D.	d
39) BENZENE	0.000		0	N.D.	d
40) 1,2-DICHLOROETHANE	0.000		0	N.D.	d
42) TRICHLOROETHENE	0.000		0	N.D.	d
43) 1,2-DICHLOROPROPANE	0.000		0	N.D.	d
44) DIBROMOMETHANE	0.000		0	N.D.	
45) BROMODICHLOROMETHANE	0.000		0	N.D.	d
47) 2-CHLOROETHYL VINYL ETHER	0.000		0	N.D.	
48) CIS-1,3-DICHLOROPROPENE	0.000		0	N.D.	
49) 4-METHYL-2-PENTANONE (...	0.000		0	N.D.	d
51) TOLUENE	0.000		0	N.D.	d
52) TRANS-1,3-DICHLOROPROPENE	0.000		0	N.D.	
54) 1,1,2-TRICHLOROETHANE	0.000		0	N.D.	d
55) TETRACHLOROETHENE	0.000		0	N.D.	d
56) 1,3-Dichloropropane	0.000		0	N.D.	d
57) 2-HEXANONE	0.000		0	N.D.	d
58) CHLORODIBROMOMETHANE	0.000		0	N.D.	
59) 1,2-DIBROMOETHANE	0.000		0	N.D.	
60) CHLOROBENZENE	0.000		0	N.D.	d
61) 1,1,1,2-TETRACHLOROETHANE	0.000		0	N.D.	d
62) ETHYLBENZENE	0.000		0	N.D.	d
63) M&P-XYLENE	0.000		0	N.D.	d
64) O-XYLENE	0.000		0	N.D.	d
65) STYRENE	0.000		0	N.D.	d
66) Bromoform	0.000		0	N.D.	
67) Isopropylbenzene	0.000		0	N.D.	d
69) Bromobenzene	0.000		0	N.D.	d
70) 1,1,2,2-TETRACHLOROETHANE	0.000		0	N.D.	d
71) 1,2,3-TRICHLOROPROPANE	0.000		0	N.D.	
72) TRANS-1,4-DICHLORO-2-B...	0.000		0	N.D.	d
73) n-Propylbenzene	0.000		0	N.D.	d
74) 4-ETHYLTOLUENE	0.000		0	N.D.	d
75) 2-Chlorotoluene	0.000		0	N.D.	
76) 4-Chlorotoluene	0.000		0	N.D.	d
77) 1,3,5-Trimethylbenzene	0.000		0	N.D.	d
78) tert-Butylbenzene	0.000		0	N.D.	d
79) 1,2,4-Trimethylbenzene	0.000		0	N.D.	d
80) sec-Butylbenzene	0.000		0	N.D.	d
81) 1,3-DICHLOROBENZENE	0.000		0	N.D.	d
82) p-Isopropyltoluene	0.000		0	N.D.	d
83) DICYCLOPENTADIENE	0.000		0	N.D.	d
85) 1,4-DICHLOROBENZENE	0.000		0	N.D.	d
86) 1,2,3-TRIMETHYLBENZENE	0.000		0	N.D.	d
87) 1,2-DICHLOROBENZENE	0.000		0	N.D.	d
88) n-Butylbenzene	0.000		0	N.D.	d
89) 1,2-Dibromo-3-chloropr...	0.000		0	N.D.	
90) 1,2,4-Trichlorobenzene	0.000		0	N.D.	
91) HEXACHLORO-1,3-BUTADIENE	0.000		0	N.D.	
92) Naphthalene	0.000		0	N.D.	d
93) 1,2,3-Trichlorobenzene	0.000		0	N.D.	d
94) 1-Methylnaphthalene	0.000		0	N.D.	d
95) 2-Methylnaphthalene	0.000		0	N.D.	d

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\112414\
Data File : 1124 25.D
Acq On : 25 Nov 2014 12:32 am
Operator : 644
Sample : STD VMS 17.5 ppb 14I02840
Misc : water IS/SURR14I25028
ALS Vial : 25 Sample Multiplier: 1
InstName : VOCMS7

Quant Time: Nov 25 13:58:48 2014
Quant Method : C:\msdchem\1\methods\V807K24N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS07
QLast Update : Tue Nov 25 13:52:28 2014
Response via : Initial Calibration

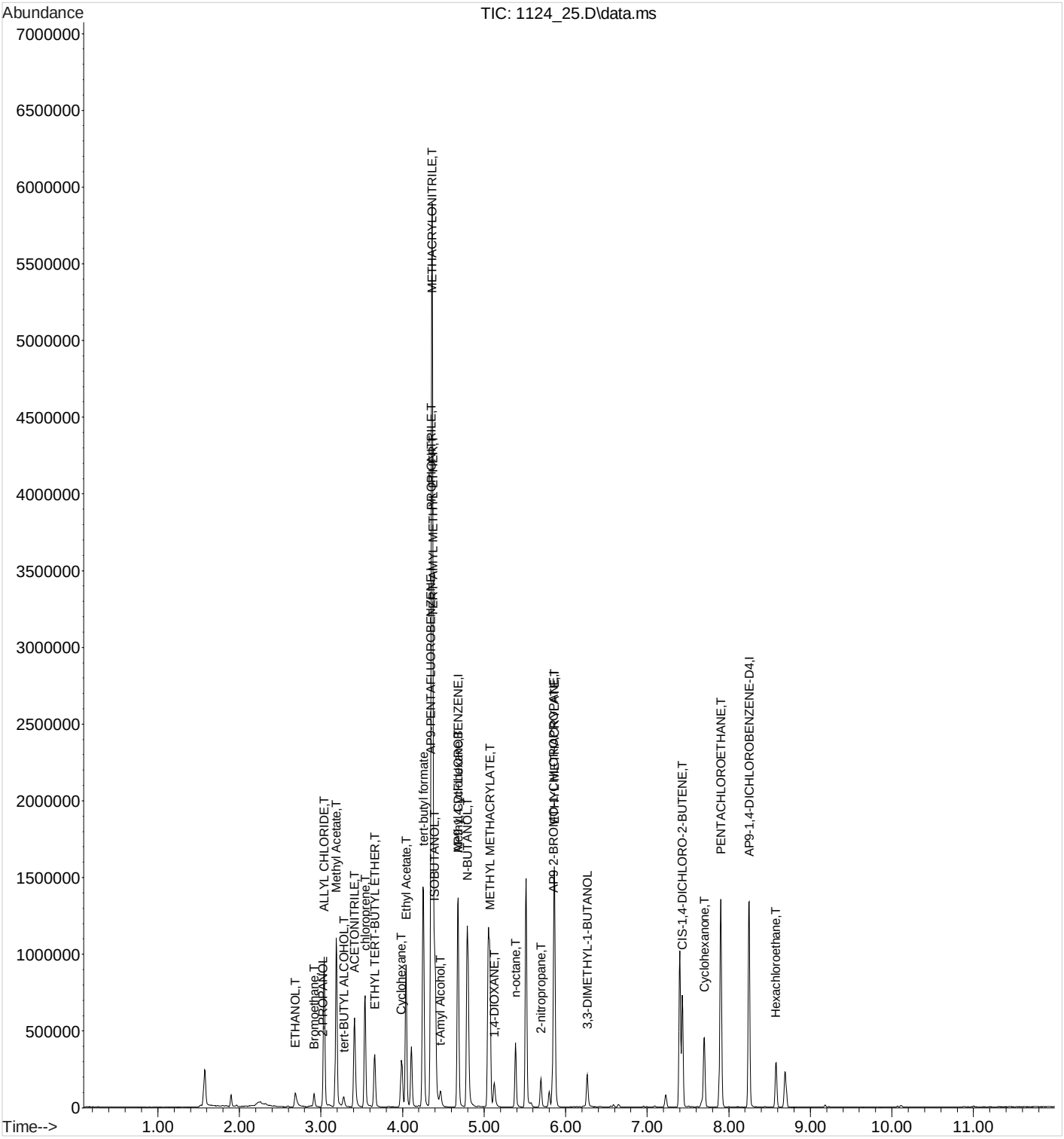
	Compound	R.T.	QIon	Response	Conc Units		Dev(Min)
97)	ETHANOL	2.686	45	128831	1758.2891917 ppb	#	96
98)	Bromoethane	2.917	108	50636	16.4791213 ppb		99
99)	2-PROPANOL	3.021	45	33617	84.1597285 ppb		96
100)	Methyl Acetate	3.185	43	1040882	341.1480997 ppb	#	99
101)	ACETONITRILE	3.410	41	534409	849.8708578 ppb		99
102)	ALLYL CHLORIDE	3.039	76	199026	84.8150839 ppb		100
103)	tert-BUTYL ALCOHOL	3.282	59	70676	84.5165184 ppb	#	91
104)	chloroprene	3.544	53	349227	85.5360175 ppb		99
105)	ETHYL TERT-BUTYL ETHER	3.659	59	248628	17.4760708 ppb		98
106)	PROPIONITRILE	4.353	54	545488	844.0835462 ppb	#	19
107)	Ethyl Acetate	4.043	43	776160	170.9224988 ppb		99
108)	METHACRYLONITRILE	4.365	67	1601207	843.1060253 ppb		97
109)	Cyclohexane	3.988	84	101623	17.1194314 ppb		99
110)	tert-butyl formate	4.256	59	697280	167.2573126 ppb		100
111)	ISOBUTANOL	4.396	43	475717	1714.7041796 ppb	#	85
112)	t-Amyl Alcohol	4.463	59	43238	86.7037499 ppb		99
113)	TERT-AMYL METHYL ETHER	4.377	73	206159	17.1782056 ppb	#	98
115)	N-BUTANOL	4.797	56	612197	3515.2819538 ppb		98
116)	Methyl Cyclohexane	4.682	83	129566	16.6440725 ppb		99
117)	2-nitropropane	5.697	43	108221	91.0263224 ppb		98
118)	METHYL METHACRYLATE	5.071	41	342434	86.1276441 ppb	#	100
119)	1,4-DIOXANE	5.126	88	106197	1799.7597020 ppb	#	100
120)	n-octane	5.387	85	71053	17.4314771 ppb		99
121)	3,3-DIMETHYL-1-BUTANOL	6.263	57	96757	180.5715566 ppb		98
123)	ETHYL METHACRYLATE	5.862	69	551982	86.2532800 ppb	#	79
124)	CIS-1,4-DICHLORO-2-BUTENE	7.431	53	129018	85.8956390 ppb		89
125)	Cyclohexanone	7.699	55	182740	184.7406073 ppb		99
126)	PENTACHLOROETHANE	7.900	117	260330	85.4884733 ppb		100
127)	Hexachloroethane	8.575	117	65095	18.0270361 ppb		99

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\112414\
Data File : 1124 25.D
Acq On : 25 Nov 2014 12:32 am
Operator : 644
Sample : STD VMS 17.5 ppb 14I02840
Misc : water IS/SURR14I25028
ALS Vial : 25 Sample Multiplier: 1
InstName : VOCMS7

Quant Time: Nov 25 13:58:48 2014
Quant Method : C:\msdchem\1\methods\V807K24N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS07
QLast Update : Tue Nov 25 13:52:28 2014
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\112414\
Data File : 1124 26.D
Acq On : 25 Nov 2014 12:51 am
Operator : 644
Sample : STD VMS 20 ppb 14I02840
Misc : water IS/SURR14I25028
ALS Vial : 26 Sample Multiplier: 1
InstName : VOCMS7

Quant Time: Nov 25 13:59:32 2014
Quant Method : C:\msdchem\1\methods\V807K24N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS07
QLast Update : Tue Nov 25 13:52:28 2014
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 8260-PENTAFLUOROBENZENE	0.000	168	0m	40.0000000	ppb	-4.35
41) 8260-1,4-DIFLUOROBENZENE	0.000	114	0m	40.0000000	ppb	-4.68
53) 8260-2-BROMO-1-CHLOROP...	0.000	79	0m	40.0000000	ppb	-5.85
84) 8260-1,4-DICHLOROBENZE...	0.000	152	0m	40.0000000	ppb	-8.25
96) AP9-PENTAFLUOROBENZENE	4.347	168	369219	40.0000000	ppb	0.00
114) AP9-1,4-DIFLUOROBENZENE	4.681	114	677731	40.0000000	ppb	0.00
122) AP9-2-BROMO-1-CHLOROPR...	5.850	79	110903	40.0000000	ppb	# 0.00
128) AP9-1,4-DICHLOROBENZEN...	8.246	152	321952	40.0000000	ppb	0.00
System Monitoring Compounds						
33) DIBROMOFLUOROMETHANE	0.000	111	0d	0.0000000	ppb	
Spiked Amount 40.000	Range 78 - 121		Recovery = 0.00%#			
46) a,a,a-Trifluorotoluene	0.000	146	0d	0.0000000	ppb	
Spiked Amount 40.000	Range 85 - 114		Recovery = 0.00%#			
50) TOLUENE-D8	0.000	98	0d	0.0000000	ppb	
Spiked Amount 40.000	Range 89 - 111		Recovery = 0.00%#			
68) 4-BROMOFLUOROBENZENE	0.000	95	0d	0.0000000	ppb	
Spiked Amount 40.000	Range 71 - 126		Recovery = 0.00%#			

Target Compounds				Qvalue
2) TPH (GC/MS) LOW FRACTION	0.000	0	N.D. d	
3) PROPENE	0.000	0	N.D. d	
4) DICHLORODIFLUOROMETHANE	0.000	0	N.D.	
5) CHLOROMETHANE	0.000	0	N.D. d	
6) VINYL CHLORIDE	0.000	0	N.D.	
7) 1,3-BUTADIENE	0.000	0	N.D. d	
8) BROMOMETHANE	0.000	0	N.D. d	
9) CHLOROETHANE	0.000	0	N.D. d	
10) TRICHLOROFLUOROMETHANE	0.000	0	N.D.	
11) DICHLOROFLUOROMETHANE	0.000	0	N.D. d	
12) ETHYL ETHER	0.000	0	N.D.	
13) ACROLEIN	0.000	0	N.D.	
14) 1,1-DICHLOROETHENE	0.000	0	N.D.	
15) 1,1,2-TRICHLOROTRIFLUO...	0.000	0	N.D.	
16) ACETONE	0.000	0	N.D. d	
17) IODOMETHANE	0.000	0	N.D. d	
18) CARBON DISULFIDE	0.000	0	N.D. d	
19) METHYLENE CHLORIDE	0.000	0	N.D. d	
20) ACRYLONITRILE	0.000	0	N.D. d	
21) n-Hexane	0.000	0	N.D. d	
22) TRANS-1,2-DICHLOROETHENE	0.000	0	N.D.	
23) METHYL TERT-BUTYL ETHER	0.000	0	N.D. d	
24) 1,1-DICHLOROETHANE	0.000	0	N.D. d	
25) VINYL ACETATE	0.000	0	N.D. d	
26) DI-ISOPROPYL ETHER	0.000	0	N.D. d	
27) 2,2-Dichloropropane	0.000	0	N.D. d	
28) CIS-1,2-DICHLOROETHENE	0.000	0	N.D.	
29) 2-BUTANONE (MEK)	0.000	0	N.D. d	
30) BROMOCHLOROMETHANE	0.000	0	N.D.	
31) TETRAHYDROFURAN	0.000	0	N.D. d	
32) CHLOROFORM	0.000	0	N.D. d	
34) 1,1,1-TRICHLOROETHANE	0.000	0	N.D.	
35) CARBON TETRACHLORIDE	0.000	0	N.D.	

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\112414\
Data File : 1124 26.D
Acq On : 25 Nov 2014 12:51 am
Operator : 644
Sample : STD VMS 20 ppb 14I02840
Misc : water IS/SURR14I25028
ALS Vial : 26 Sample Multiplier: 1
InstName : VOCMS7

Quant Time: Nov 25 13:59:32 2014
Quant Method : C:\msdchem\1\methods\V807K24N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS07
QLast Update : Tue Nov 25 13:52:28 2014
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
36) 1,1-Dichloropropene	0.000		0	N.D.	
37) 2,2,4-TRIMETHYLPENTANE	0.000		0	N.D.	d
38) HEPTANE	0.000		0	N.D.	d
39) BENZENE	0.000		0	N.D.	d
40) 1,2-DICHLOROETHANE	0.000		0	N.D.	d
42) TRICHLOROETHENE	0.000		0	N.D.	d
43) 1,2-DICHLOROPROPANE	0.000		0	N.D.	d
44) DIBROMOMETHANE	0.000		0	N.D.	
45) BROMODICHLOROMETHANE	0.000		0	N.D.	d
47) 2-CHLOROETHYL VINYL ETHER	0.000		0	N.D.	
48) CIS-1,3-DICHLOROPROPENE	0.000		0	N.D.	
49) 4-METHYL-2-PENTANONE (...	0.000		0	N.D.	d
51) TOLUENE	0.000		0	N.D.	d
52) TRANS-1,3-DICHLOROPROPENE	0.000		0	N.D.	
54) 1,1,2-TRICHLOROETHANE	0.000		0	N.D.	d
55) TETRACHLOROETHENE	0.000		0	N.D.	d
56) 1,3-Dichloropropane	0.000		0	N.D.	d
57) 2-HEXANONE	0.000		0	N.D.	d
58) CHLORODIBROMOMETHANE	0.000		0	N.D.	
59) 1,2-DIBROMOETHANE	0.000		0	N.D.	
60) CHLOROBENZENE	0.000		0	N.D.	d
61) 1,1,1,2-TETRACHLOROETHANE	0.000		0	N.D.	d
62) ETHYLBENZENE	0.000		0	N.D.	d
63) M&P-XYLENE	0.000		0	N.D.	d
64) O-XYLENE	0.000		0	N.D.	d
65) STYRENE	0.000		0	N.D.	d
66) Bromoform	0.000		0	N.D.	
67) Isopropylbenzene	0.000		0	N.D.	d
69) Bromobenzene	0.000		0	N.D.	d
70) 1,1,2,2-TETRACHLOROETHANE	0.000		0	N.D.	d
71) 1,2,3-TRICHLOROPROPANE	0.000		0	N.D.	
72) TRANS-1,4-DICHLORO-2-B...	0.000		0	N.D.	d
73) n-Propylbenzene	0.000		0	N.D.	d
74) 4-ETHYLTOLUENE	0.000		0	N.D.	d
75) 2-Chlorotoluene	0.000		0	N.D.	
76) 4-Chlorotoluene	0.000		0	N.D.	d
77) 1,3,5-Trimethylbenzene	0.000		0	N.D.	d
78) tert-Butylbenzene	0.000		0	N.D.	d
79) 1,2,4-Trimethylbenzene	0.000		0	N.D.	d
80) sec-Butylbenzene	0.000		0	N.D.	d
81) 1,3-DICHLOROBENZENE	0.000		0	N.D.	d
82) p-Isopropyltoluene	0.000		0	N.D.	d
83) DICYCLOPENTADIENE	0.000		0	N.D.	d
85) 1,4-DICHLOROBENZENE	0.000		0	N.D.	d
86) 1,2,3-TRIMETHYLBENZENE	0.000		0	N.D.	d
87) 1,2-DICHLOROBENZENE	0.000		0	N.D.	d
88) n-Butylbenzene	0.000		0	N.D.	d
89) 1,2-Dibromo-3-chloropr...	0.000		0	N.D.	
90) 1,2,4-Trichlorobenzene	0.000		0	N.D.	d
91) HEXACHLORO-1,3-BUTADIENE	0.000		0	N.D.	
92) Naphthalene	0.000		0	N.D.	d
93) 1,2,3-Trichlorobenzene	0.000		0	N.D.	d
94) 1-Methylnaphthalene	0.000		0	N.D.	d
95) 2-Methylnaphthalene	0.000		0	N.D.	d

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\112414\
Data File : 1124 26.D
Acq On : 25 Nov 2014 12:51 am
Operator : 644
Sample : STD VMS 20 ppb 14I02840
Misc : water IS/SURR14I25028
ALS Vial : 26 Sample Multiplier: 1
InstName : VOCMS7

Quant Time: Nov 25 13:59:32 2014
Quant Method : C:\msdchem\1\methods\V807K24N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS07
QLast Update : Tue Nov 25 13:52:28 2014
Response via : Initial Calibration

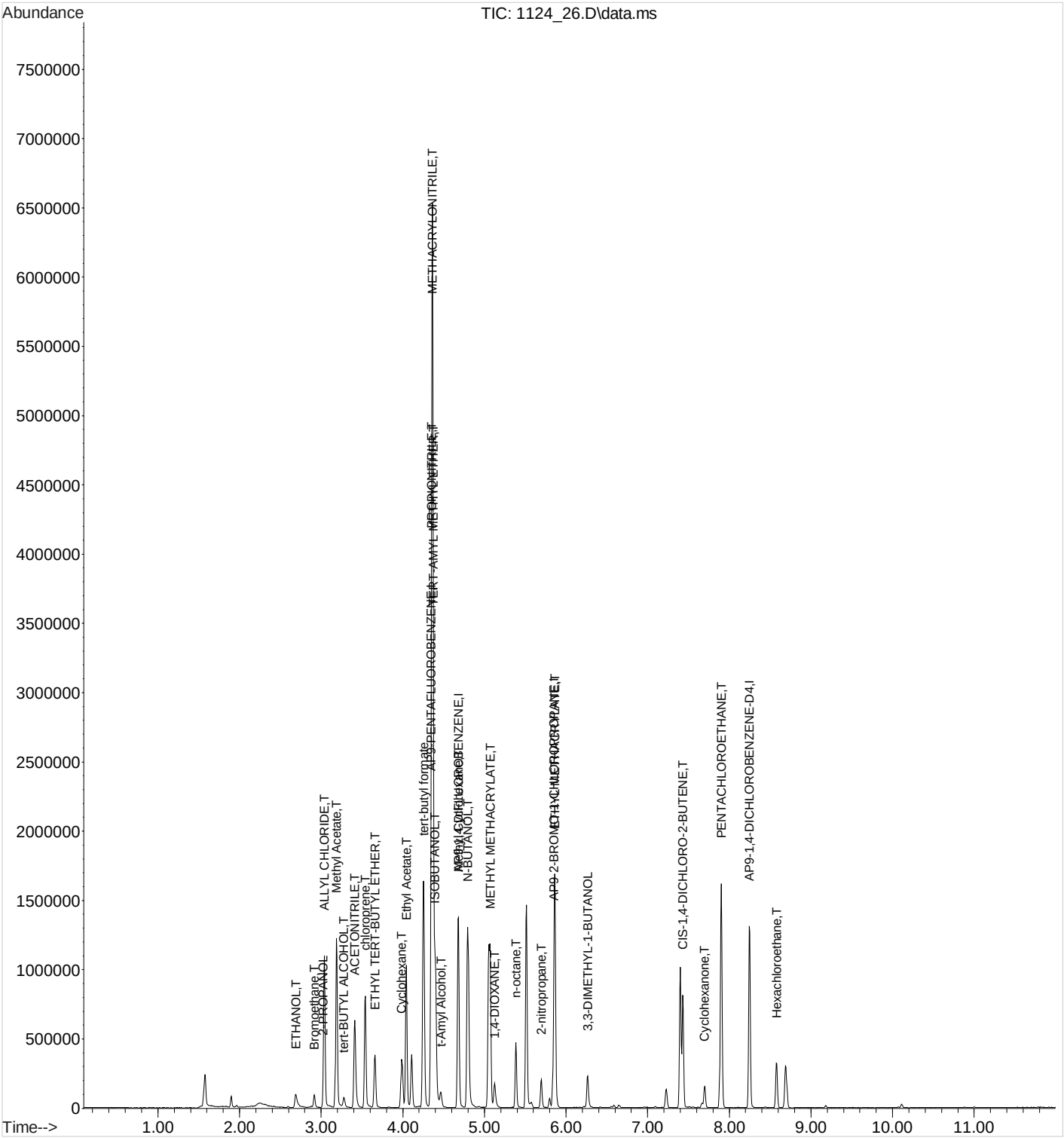
	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
97)	ETHANOL	2.692	45	139010	1919.7651227	ppb	#	99
98)	Bromoethane	2.917	108	58730	19.3404594	ppb		98
99)	2-PROPANOL	3.021	45	35768	90.6091703	ppb		97
100)	Methyl Acetate	3.185	43	1147381	380.5232852	ppb	#	99
101)	ACETONITRILE	3.410	41	601997	968.7364175	ppb		100
102)	ALLYL CHLORIDE	3.039	76	224861	96.9637816	ppb		98
103)	tert-BUTYL ALCOHOL	3.276	59	76703	92.8141330	ppb	#	92
104)	chloroprene	3.544	53	391303	96.9809682	ppb		99
105)	ETHYL TERT-BUTYL ETHER	3.659	59	278084	19.7788887	ppb		99
106)	PROPIONITRILE	4.353	54	602394	943.2199902	ppb	#	18
107)	Ethyl Acetate	4.043	43	859046	191.4240592	ppb		99
108)	METHACRYLONITRILE	4.365	67	1778772	947.7354439	ppb		97
109)	Cyclohexane	3.988	84	116163	19.8014626	ppb		98
110)	tert-butyl formate	4.256	59	792330	192.3163161	ppb		99
111)	ISOBUTANOL	4.396	43	522001	1903.8993930	ppb	#	86
112)	t-Amyl Alcohol	4.469	59	45101	91.5146410	ppb		94
113)	TERT-AMYL METHYL ETHER	4.377	73	228416	19.2590182	ppb	#	99
115)	N-BUTANOL	4.797	56	676553	3952.1310245	ppb		99
116)	Methyl Cyclohexane	4.681	83	145689	19.0395137	ppb		99
117)	2-nitropropane	5.697	43	117767	100.7719375	ppb		99
118)	METHYL METHACRYLATE	5.071	41	384138	98.2909432	ppb	#	100
119)	1,4-DIOXANE	5.126	88	118048	2035.2672818	ppb	#	100
120)	n-octane	5.387	85	80771	20.1589437	ppb		99
121)	3,3-DIMETHYL-1-BUTANOL	6.263	57	107394	203.8954378	ppb		99
123)	ETHYL METHACRYLATE	5.862	69	620699	99.2832854	ppb	#	76
124)	CIS-1,4-DICHLORO-2-BUTENE	7.431	53	143886	98.0581600	ppb		91
125)	Cyclohexanone	7.693	55	62800	64.9879415	ppb		99
126)	PENTACHLOROETHANE	7.900	117	302653	101.7355452	ppb		99
127)	Hexachloroethane	8.581	117	74588	21.1441412	ppb		98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\112414\
Data File : 1124 26.D
Acq On : 25 Nov 2014 12:51 am
Operator : 644
Sample : STD VMS 20 ppb 14I02840
Misc : water IS/SURR14I25028
ALS Vial : 26 Sample Multiplier: 1
InstName : VOCMS7

Quant Time: Nov 25 13:59:32 2014
Quant Method : C:\msdchem\1\methods\V807K24N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS07
QLast Update : Tue Nov 25 13:52:28 2014
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\112414\
Data File : 1124 01.D
Acq On : 24 Nov 2014 4:49 pm
Operator : 644
Sample : INSTBLK VMS
Misc : water IS/SURR14I25028
ALS Vial : 1 Sample Multiplier: 1
InstName : VOCMS7

Quant Time: Nov 25 02:00:17 2014
Quant Method : C:\msdchem\1\methods\V807K24N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS07
QLast Update : Mon Oct 20 13:22:28 2014
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 8260-PENTAFLUOROBENZENE	4.353	168	472590	40.0000000 ppb	0.00
41) 8260-1,4-DIFLUOROBENZENE	4.681	114	825356	40.0000000 ppb	0.00
53) 8260-2-BROMO-1-CHLOROP...	5.849	79	139989	40.0000000 ppb	0.00
84) 8260-1,4-DICHLOROBENZE...	8.252	152	387498	40.0000000 ppb	0.00
96) AP9-PENTAFLUOROBENZENE	4.353	168	472590	40.0000000 ppb	0.00
114) AP9-1,4-DIFLUOROBENZENE	4.681	114	825356	40.0000000 ppb	0.00
122) AP9-2-BROMO-1-CHLOROPR...	5.849	79	139989	40.0000000 ppb	# 0.00
128) AP9-1,4-DICHLOROBENZEN...	8.252	152	387498	40.0000000 ppb	0.00
System Monitoring Compounds					
33) DIBROMOFLUOROMETHANE	4.110	111	244877	41.6383435 ppb	0.00
Spiked Amount 40.000	Range 78 - 121		Recovery = 104.10%		
46) a,a,a-Trifluorotoluene	5.053	146	454784	42.1906935 ppb	0.00
Spiked Amount 40.000	Range 85 - 114		Recovery = 105.48%		
50) TOLUENE-D8	5.515	98	1019791	41.1883890 ppb	0.00
Spiked Amount 40.000	Range 89 - 111		Recovery = 102.97%		
68) 4-BROMOFLUOROBENZENE	7.401	95	390542	40.6956168 ppb	0.00
Spiked Amount 40.000	Range 71 - 126		Recovery = 101.74%		
Target Compounds					Qvalue
2) TPH (GC/MS) LOW FRACTION	4.406	TIC	-4124615	No Calib	
3) PROPENE	1.670	41	4072	4.1004045 ppb #	64
4) DICHLORODIFLUOROMETHANE	1.713	85	669	N.D.	
5) CHLOROMETHANE	1.901	50	997	N.D.	
6) VINYL CHLORIDE	0.000		0	N.D.	
7) 1,3-BUTADIENE	0.000		0	N.D.	
8) BROMOMETHANE	2.187	94	553	N.D.	
9) CHLOROETHANE	2.278	66	1200	0.9094973 ppb #	1
10) TRICHLOROFLUOROMETHANE	0.000		0	N.D.	
11) DICHLOROFLUOROMETHANE	0.000		0	N.D.	
12) ETHYL ETHER	0.000		0	N.D.	
13) ACROLEIN	2.899	56	607	0.6528081 ppb #	14
14) 1,1-DICHLOROETHENE	0.000		0	N.D.	
15) 1,1,2-TRICHLOROTRIFLUO...	0.000		0	N.D.	
16) ACETONE	3.118	43	2488	1.5452088 ppb	100
17) IODOMETHANE	2.850	142	876	N.D.	
18) CARBON DISULFIDE	2.783	76	2635	N.D.	
19) METHYLENE CHLORIDE	3.112	84	1076	N.D.	
20) ACRYLONITRILE	0.000		0	N.D.	
21) n-Hexane	3.179	56	817	N.D.	
22) TRANS-1,2-DICHLOROETHENE	0.000		0	N.D.	
23) METHYL TERT-BUTYL ETHER	0.000		0	N.D.	
24) 1,1-DICHLOROETHANE	0.000		0	N.D.	
25) VINYL ACETATE	3.641	43	542	N.D.	
26) DI-ISOPROPYL ETHER	3.507	45	520	N.D.	
27) 2,2-Dichloropropane	0.000		0	N.D.	
28) CIS-1,2-DICHLOROETHENE	0.000		0	N.D.	
29) 2-BUTANONE (MEK)	0.000		0	N.D.	
30) BROMOCHLOROMETHANE	0.000		0	N.D.	
31) TETRAHYDROFURAN	4.110	42	781	0.3902746 ppb #	71
32) CHLOROFORM	4.000	83	1459	N.D.	
34) 1,1,1-TRICHLOROETHANE	4.128	97	674	N.D.	
35) CARBON TETRACHLORIDE	0.000		0	N.D.	

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\112414\
Data File : 1124 01.D
Acq On : 24 Nov 2014 4:49 pm
Operator : 644
Sample : INSTBLK VMS
Misc : water IS/SURR14I25028
ALS Vial : 1 Sample Multiplier: 1
InstName : VOCMS7

Quant Time: Nov 25 02:00:17 2014
Quant Method : C:\msdchem\1\methods\V807K24N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS07
QLast Update : Mon Oct 20 13:22:28 2014
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
36) 1,1-Dichloropropene	0.000		0	N.D.	
37) 2,2,4-TRIMETHYLPENTANE	4.243	57	1839	N.D.	
38) HEPTANE	4.231	43	541	N.D.	
39) BENZENE	4.353	78	577	N.D.	
40) 1,2-DICHLOROETHANE	0.000		0	N.D.	
42) TRICHLOROETHENE	0.000		0	N.D.	
43) 1,2-DICHLOROPROPANE	5.053	62	6960	1.5672494 ppb	# 21
44) DIBROMOMETHANE	0.000		0	N.D.	
45) BROMODICHLOROMETHANE	5.004	83	749	N.D.	
47) 2-CHLOROETHYL VINYL ETHER	0.000		0	N.D.	
48) CIS-1,3-DICHLOROPROPENE	0.000		0	N.D.	
49) 4-METHYL-2-PENTANONE (...	0.000		0	N.D.	
51) TOLUENE	5.551	91	4265	N.D.	
52) TRANS-1,3-DICHLOROPROPENE	0.000		0	N.D.	
54) 1,1,2-TRICHLOROETHANE	5.868	97	595	N.D.	
55) TETRACHLOROETHENE	0.000		0	N.D.	
56) 1,3-Dichloropropane	0.000		0	N.D.	
57) 2-HEXANONE	6.312	58	539	N.D.	
58) CHLORODIBROMOMETHANE	0.000		0	N.D.	
59) 1,2-DIBROMOETHANE	0.000		0	N.D.	
60) CHLOROBENZENE	0.000		0	N.D.	
61) 1,1,1,2-TETRACHLOROETHANE	0.000		0	N.D.	
62) ETHYLBENZENE	0.000		0	N.D.	
63) M&P-XYLENE	6.653	106	1854	N.D.	
64) O-XYLENE	0.000		0	N.D.	
65) STYRENE	0.000		0	N.D.	
66) Bromoform	0.000		0	N.D.	
67) Isopropylbenzene	7.182	105	845	N.D.	
69) Bromobenzene	7.498	77	579	N.D.	
70) 1,1,2,2-TETRACHLOROETHANE	7.547	83	776	N.D.	
71) 1,2,3-TRICHLOROPROPANE	0.000		0	N.D.	
72) TRANS-1,4-DICHLORO-2-B...	0.000		0	N.D.	
73) n-Propylbenzene	7.480	91	1601	N.D.	
74) 4-ETHYLTOLUENE	7.547	105	2736	N.D.	
75) 2-Chlorotoluene	0.000		0	N.D.	
76) 4-Chlorotoluene	7.735	91	672	N.D.	
77) 1,3,5-Trimethylbenzene	7.626	105	1153	N.D.	
78) tert-Butylbenzene	0.000		0	N.D.	
79) 1,2,4-Trimethylbenzene	7.918	105	2477	N.D.	
80) sec-Butylbenzene	8.009	105	831	N.D.	
81) 1,3-DICHLOROBENZENE	0.000		0	N.D.	
82) p-Isopropyltoluene	8.113	119	759	N.D.	
83) DICYCLOPENTADIENE	0.000		0	N.D.	
85) 1,4-DICHLOROBENZENE	0.000		0	N.D.	
86) 1,2,3-TRIMETHYLBENZENE	8.265	105	1447	N.D.	
87) 1,2-DICHLOROBENZENE	0.000		0	N.D.	
88) n-Butylbenzene	8.441	91	1548	N.D.	
89) 1,2-Dibromo-3-chloropr...	0.000		0	N.D.	
90) 1,2,4-Trichlorobenzene	0.000		0	N.D.	
91) HEXACHLORO-1,3-BUTADIENE	0.000		0	N.D.	
92) Naphthalene	10.084	128	2368	N.D.	
93) 1,2,3-Trichlorobenzene	0.000		0	N.D.	
94) 1-Methylnaphthalene	10.887	142	1832	N.D.	
95) 2-Methylnaphthalene	11.008	142	853	N.D.	

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\112414\
Data File : 1124 01.D
Acq On : 24 Nov 2014 4:49 pm
Operator : 644
Sample : INSTBLK VMS
Misc : water IS/SURR14I25028
ALS Vial : 1 Sample Multiplier: 1
InstName : VOCMS7

Quant Time: Nov 25 02:00:17 2014
Quant Method : C:\msdchem\1\methods\V807K24N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS07
QLast Update : Mon Oct 20 13:22:28 2014
Response via : Initial Calibration

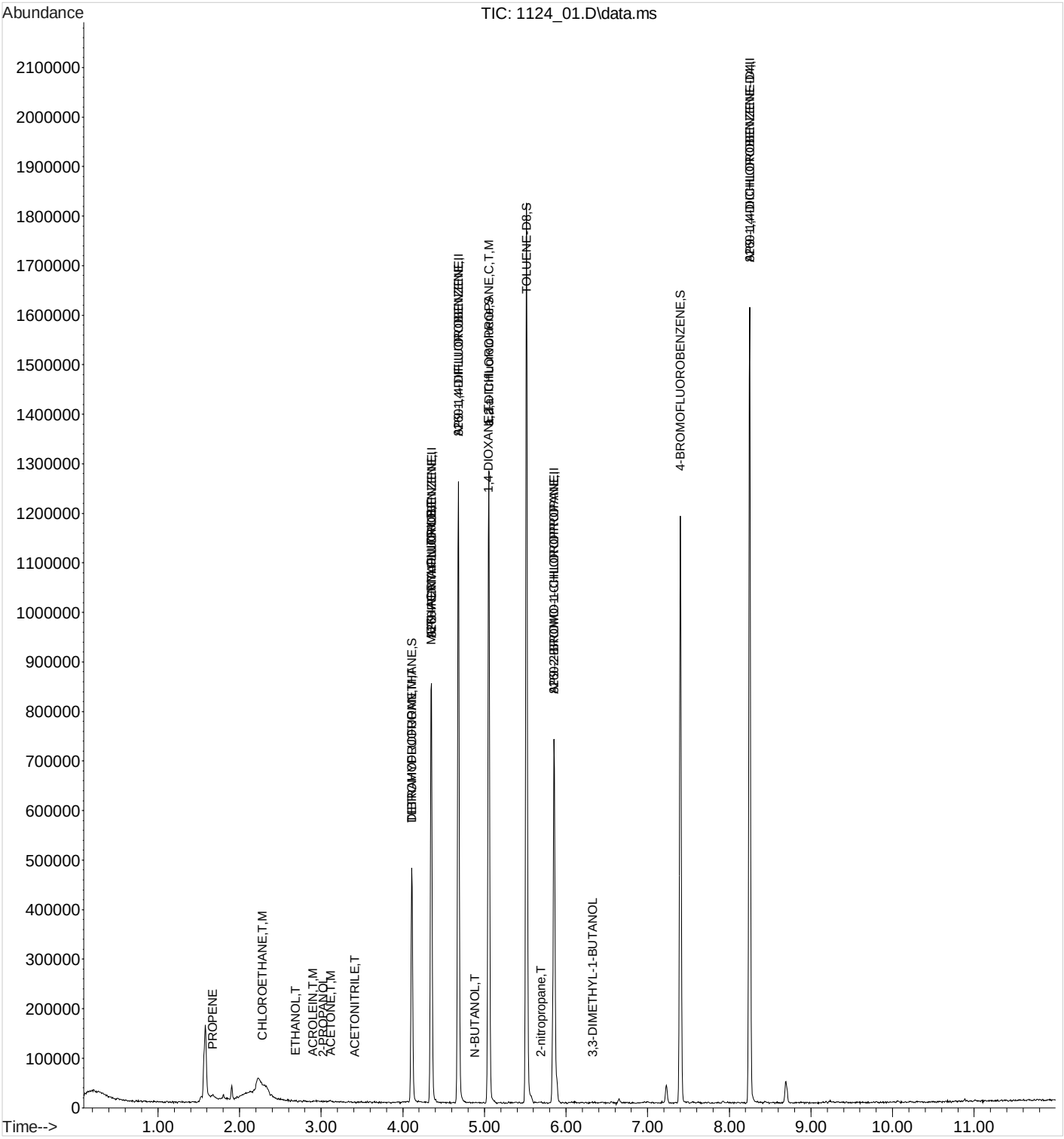
	Compound	R.T.	QIon	Response	Conc Units		Dev(Min)
97)	ETHANOL	2.686	45	861	9.5737977 ppb	#	12
98)	Bromoethane	0.000		0	N.D.		
99)	2-PROPANOL	3.021	45	1344	2.8248333 ppb	#	60
100)	Methyl Acetate	3.191	43	718	N.D.		
101)	ACETONITRILE	3.410	41	626	0.7532279 ppb	#	1
102)	ALLYL CHLORIDE	0.000		0	N.D.		
103)	tert-BUTYL ALCOHOL	0.000		0	N.D.		
104)	chloroprene	0.000		0	N.D.		
105)	ETHYL TERT-BUTYL ETHER	0.000		0	N.D.		
106)	PROPIONITRILE	0.000		0	N.D.		
107)	Ethyl Acetate	3.939	43	918	N.D.		
108)	METHACRYLONITRILE	4.347	67	1663	0.7305742 ppb	#	13
109)	Cyclohexane	0.000		0	N.D.		
110)	tert-butyl formate	0.000		0	N.D.		
111)	ISOBUTANOL	0.000		0	N.D.		
112)	t-Amyl Alcohol	0.000		0	N.D.		
113)	TERT-AMYL METHYL ETHER	0.000		0	N.D.		
115)	N-BUTANOL	4.882	56	758	3.6517136 ppb	#	20
116)	Methyl Cyclohexane	4.681	83	8275	N.D.		
117)	2-nitropropane	5.691	43	533	0.3568924 ppb	#	17
118)	METHYL METHACRYLATE	5.180	41	1149	N.D.		
119)	1,4-DIOXANE	5.046	88	4081	59.0632945 ppb	#	31
120)	n-octane	0.000		0	N.D.		
121)	3,3-DIMETHYL-1-BUTANOL	6.324	57	860	1.4144091 ppb	#	42
123)	ETHYL METHACRYLATE	5.862	69	648	N.D.		
124)	CIS-1,4-DICHLORO-2-BUTENE	0.000		0	N.D.		
125)	Cyclohexanone	7.705	55	593	No Calib	#	
126)	PENTACHLOROETHANE	0.000		0	N.D.		
127)	Hexachloroethane	0.000		0	N.D.		

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\112414\
Data File : 1124 01.D
Acq On : 24 Nov 2014 4:49 pm
Operator : 644
Sample : INSTBLK VMS
Misc : water IS/SURR14I25028
ALS Vial : 1 Sample Multiplier: 1
InstName : VOCMS7

Quant Time: Nov 25 02:00:17 2014
Quant Method : C:\msdchem\1\methods\V807K24N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS07
QLast Update : Mon Oct 20 13:22:28 2014
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\112414\
Data File : 1124 01.D
Acq On : 24 Nov 2014 4:49 pm
Operator : 644
Sample : INSTBLK VMS
Misc : water IS/SURR14I25028
ALS Vial : 1 Sample Multiplier: 1
InstName : VOCMS7

Quant Time: Nov 25 02:00:17 2014
Quant Method : C:\msdchem\1\methods\V807K24N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS07
QLast Update : Mon Oct 20 13:22:28 2014
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 8260-PENTAFLUOROBENZENE	4.353	168	472590	40.0000000 ppb	0.00
41) 8260-1,4-DIFLUOROBENZENE	4.681	114	825356	40.0000000 ppb	0.00
53) 8260-2-BROMO-1-CHLOROP...	5.849	79	139989	40.0000000 ppb	0.00
84) 8260-1,4-DICHLOROBENZE...	8.252	152	387498	40.0000000 ppb	0.00
96) AP9-PENTAFLUOROBENZENE	4.353	168	472590	40.0000000 ppb	0.00
114) AP9-1,4-DIFLUOROBENZENE	4.681	114	825356	40.0000000 ppb	0.00
122) AP9-2-BROMO-1-CHLOROPR...	5.849	79	139989	40.0000000 ppb	# 0.00
128) AP9-1,4-DICHLOROBENZEN...	8.252	152	387498	40.0000000 ppb	0.00
System Monitoring Compounds					
33) DIBROMOFLUOROMETHANE	4.110	111	244877	41.6383435 ppb	0.00
Spiked Amount 40.000	Range 78 - 121		Recovery = 104.10%		
46) a,a,a-Trifluorotoluene	5.053	146	454784	42.1906935 ppb	0.00
Spiked Amount 40.000	Range 85 - 114		Recovery = 105.48%		
50) TOLUENE-D8	5.515	98	1019791	41.1883890 ppb	0.00
Spiked Amount 40.000	Range 89 - 111		Recovery = 102.97%		
68) 4-BROMOFLUOROBENZENE	7.401	95	390542	40.6956168 ppb	0.00
Spiked Amount 40.000	Range 71 - 126		Recovery = 101.74%		
Target Compounds					Qvalue
2) TPH (GC/MS) LOW FRACTION	4.406	TIC	-4124615	No Calib	
3) PROPENE	1.670	41	4072	4.1004045 ppb #	64
4) DICHLORODIFLUOROMETHANE	1.713	85	669	N.D.	
5) CHLOROMETHANE	1.901	50	997	N.D.	
6) VINYL CHLORIDE	0.000		0	N.D.	
7) 1,3-BUTADIENE	0.000		0	N.D.	
8) BROMOMETHANE	2.187	94	553	N.D.	
9) CHLOROETHANE	2.278	66	1200	0.9094973 ppb #	1
10) TRICHLOROFLUOROMETHANE	0.000		0	N.D.	
11) DICHLOROFLUOROMETHANE	0.000		0	N.D.	
12) ETHYL ETHER	0.000		0	N.D.	
13) ACROLEIN	2.899	56	607	0.6528081 ppb #	14
14) 1,1-DICHLOROETHENE	0.000		0	N.D.	
15) 1,1,2-TRICHLOROTRIFLUO...	0.000		0	N.D.	
16) ACETONE	3.118	43	2488	1.5452088 ppb	100
17) IODOMETHANE	2.850	142	876	N.D.	
18) CARBON DISULFIDE	2.783	76	2635	N.D.	
19) METHYLENE CHLORIDE	3.112	84	1076	N.D.	
20) ACRYLONITRILE	0.000		0	N.D.	
21) n-Hexane	3.179	56	817	N.D.	
22) TRANS-1,2-DICHLOROETHENE	0.000		0	N.D.	
23) METHYL TERT-BUTYL ETHER	0.000		0	N.D.	
24) 1,1-DICHLOROETHANE	0.000		0	N.D.	
25) VINYL ACETATE	3.641	43	542	N.D.	
26) DI-ISOPROPYL ETHER	3.507	45	520	N.D.	
27) 2,2-Dichloropropane	0.000		0	N.D.	
28) CIS-1,2-DICHLOROETHENE	0.000		0	N.D.	
29) 2-BUTANONE (MEK)	0.000		0	N.D.	
30) BROMOCHLOROMETHANE	0.000		0	N.D.	
31) TETRAHYDROFURAN	4.110	42	781	0.3902746 ppb #	71
32) CHLOROFORM	4.000	83	1459	N.D.	
34) 1,1,1-TRICHLOROETHANE	4.128	97	674	N.D.	
35) CARBON TETRACHLORIDE	0.000		0	N.D.	

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\112414\
Data File : 1124 01.D
Acq On : 24 Nov 2014 4:49 pm
Operator : 644
Sample : INSTBLK VMS
Misc : water IS/SURR14I25028
ALS Vial : 1 Sample Multiplier: 1
InstName : VOCMS7

Quant Time: Nov 25 02:00:17 2014
Quant Method : C:\msdchem\1\methods\V807K24N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS07
QLast Update : Mon Oct 20 13:22:28 2014
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
36) 1,1-Dichloropropene	0.000		0	N.D.	
37) 2,2,4-TRIMETHYLPENTANE	4.243	57	1839	N.D.	
38) HEPTANE	4.231	43	541	N.D.	
39) BENZENE	4.353	78	577	N.D.	
40) 1,2-DICHLOROETHANE	0.000		0	N.D.	
42) TRICHLOROETHENE	0.000		0	N.D.	
43) 1,2-DICHLOROPROPANE	5.053	62	6960	1.5672494 ppb	# 21
44) DIBROMOMETHANE	0.000		0	N.D.	
45) BROMODICHLOROMETHANE	5.004	83	749	N.D.	
47) 2-CHLOROETHYL VINYL ETHER	0.000		0	N.D.	
48) CIS-1,3-DICHLOROPROPENE	0.000		0	N.D.	
49) 4-METHYL-2-PENTANONE (...	0.000		0	N.D.	
51) TOLUENE	5.551	91	4265	N.D.	
52) TRANS-1,3-DICHLOROPROPENE	0.000		0	N.D.	
54) 1,1,2-TRICHLOROETHANE	5.868	97	595	N.D.	
55) TETRACHLOROETHENE	0.000		0	N.D.	
56) 1,3-Dichloropropane	0.000		0	N.D.	
57) 2-HEXANONE	6.312	58	539	N.D.	
58) CHLORODIBROMOMETHANE	0.000		0	N.D.	
59) 1,2-DIBROMOETHANE	0.000		0	N.D.	
60) CHLOROBENZENE	0.000		0	N.D.	
61) 1,1,1,2-TETRACHLOROETHANE	0.000		0	N.D.	
62) ETHYLBENZENE	0.000		0	N.D.	
63) M&P-XYLENE	6.653	106	1854	N.D.	
64) O-XYLENE	0.000		0	N.D.	
65) STYRENE	0.000		0	N.D.	
66) Bromoform	0.000		0	N.D.	
67) Isopropylbenzene	7.182	105	845	N.D.	
69) Bromobenzene	7.498	77	579	N.D.	
70) 1,1,2,2-TETRACHLOROETHANE	7.547	83	776	N.D.	
71) 1,2,3-TRICHLOROPROPANE	0.000		0	N.D.	
72) TRANS-1,4-DICHLORO-2-B...	0.000		0	N.D.	
73) n-Propylbenzene	7.480	91	1601	N.D.	
74) 4-ETHYLTOLUENE	7.547	105	2736	N.D.	
75) 2-Chlorotoluene	0.000		0	N.D.	
76) 4-Chlorotoluene	7.735	91	672	N.D.	
77) 1,3,5-Trimethylbenzene	7.626	105	1153	N.D.	
78) tert-Butylbenzene	0.000		0	N.D.	
79) 1,2,4-Trimethylbenzene	7.918	105	2477	N.D.	
80) sec-Butylbenzene	8.009	105	831	N.D.	
81) 1,3-DICHLOROBENZENE	0.000		0	N.D.	
82) p-Isopropyltoluene	8.113	119	759	N.D.	
83) DICYCLOPENTADIENE	0.000		0	N.D.	
85) 1,4-DICHLOROBENZENE	0.000		0	N.D.	
86) 1,2,3-TRIMETHYLBENZENE	8.265	105	1447	N.D.	
87) 1,2-DICHLOROBENZENE	0.000		0	N.D.	
88) n-Butylbenzene	8.441	91	1548	N.D.	
89) 1,2-Dibromo-3-chloropr...	0.000		0	N.D.	
90) 1,2,4-Trichlorobenzene	0.000		0	N.D.	
91) HEXACHLORO-1,3-BUTADIENE	0.000		0	N.D.	
92) Naphthalene	10.084	128	2368	N.D.	
93) 1,2,3-Trichlorobenzene	0.000		0	N.D.	
94) 1-Methylnaphthalene	10.887	142	1832	N.D.	
95) 2-Methylnaphthalene	11.008	142	853	N.D.	

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\112414\
Data File : 1124 01.D
Acq On : 24 Nov 2014 4:49 pm
Operator : 644
Sample : INSTBLK VMS
Misc : water IS/SURR14I25028
ALS Vial : 1 Sample Multiplier: 1
InstName : VOCMS7

Quant Time: Nov 25 02:00:17 2014
Quant Method : C:\msdchem\1\methods\V807K24N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS07
QLast Update : Mon Oct 20 13:22:28 2014
Response via : Initial Calibration

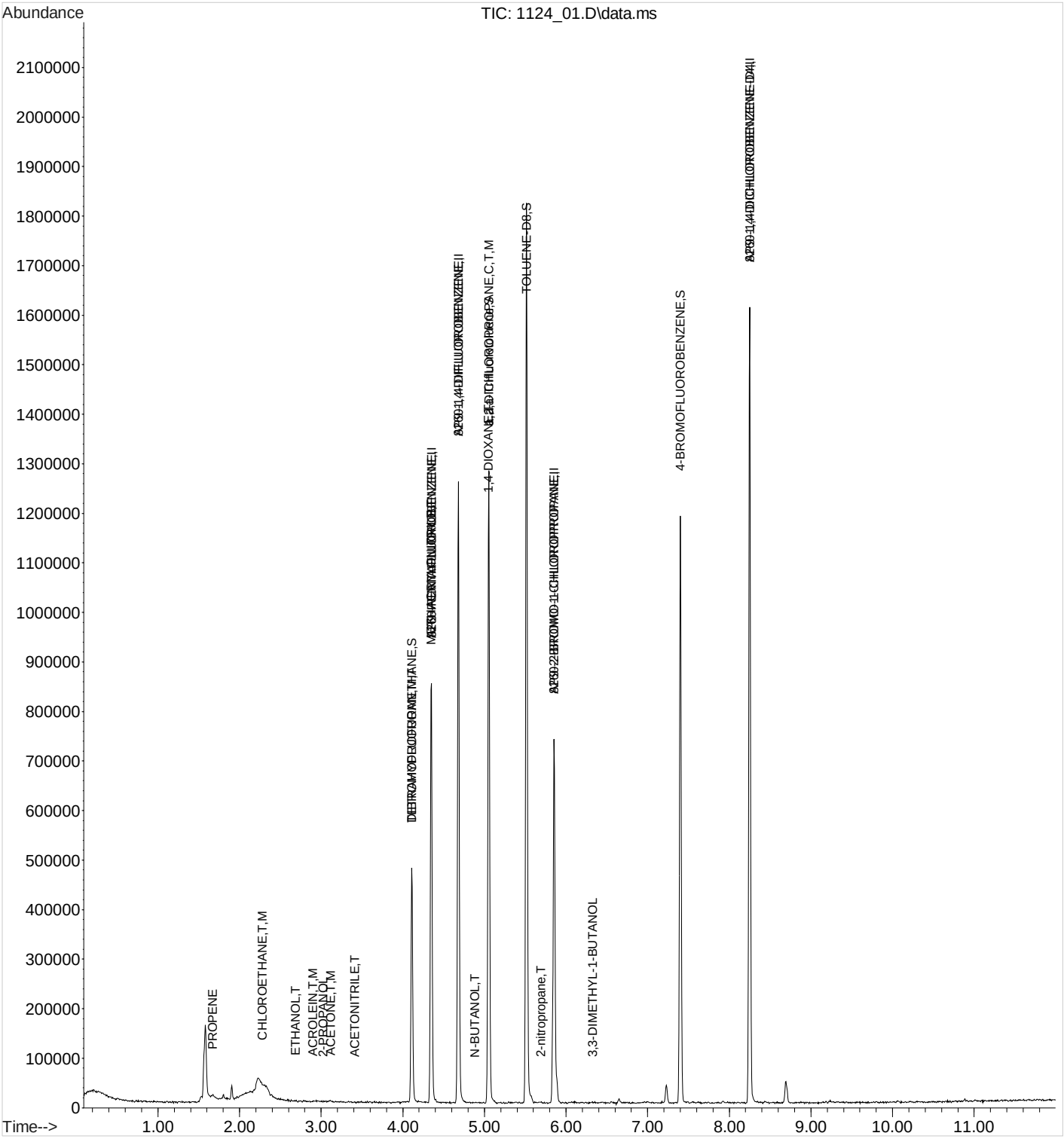
	Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
97)	ETHANOL	2.686	45	861	9.5737977 ppb #	12
98)	Bromoethane	0.000		0	N.D.	
99)	2-PROPANOL	3.021	45	1344	2.8248333 ppb #	60
100)	Methyl Acetate	3.191	43	718	N.D.	
101)	ACETONITRILE	3.410	41	626	0.7532279 ppb #	1
102)	ALLYL CHLORIDE	0.000		0	N.D.	
103)	tert-BUTYL ALCOHOL	0.000		0	N.D.	
104)	chloroprene	0.000		0	N.D.	
105)	ETHYL TERT-BUTYL ETHER	0.000		0	N.D.	
106)	PROPIONITRILE	0.000		0	N.D.	
107)	Ethyl Acetate	3.939	43	918	N.D.	
108)	METHACRYLONITRILE	4.347	67	1663	0.7305742 ppb #	13
109)	Cyclohexane	0.000		0	N.D.	
110)	tert-butyl formate	0.000		0	N.D.	
111)	ISOBUTANOL	0.000		0	N.D.	
112)	t-Amyl Alcohol	0.000		0	N.D.	
113)	TERT-AMYL METHYL ETHER	0.000		0	N.D.	
115)	N-BUTANOL	4.882	56	758	3.6517136 ppb #	20
116)	Methyl Cyclohexane	4.681	83	8275	N.D.	
117)	2-nitropropane	5.691	43	533	0.3568924 ppb #	17
118)	METHYL METHACRYLATE	5.180	41	1149	N.D.	
119)	1,4-DIOXANE	5.046	88	4081	59.0632945 ppb #	31
120)	n-octane	0.000		0	N.D.	
121)	3,3-DIMETHYL-1-BUTANOL	6.324	57	860	1.4144091 ppb #	42
123)	ETHYL METHACRYLATE	5.862	69	648	N.D.	
124)	CIS-1,4-DICHLORO-2-BUTENE	0.000		0	N.D.	
125)	Cyclohexanone	7.705	55	593	No Calib #	
126)	PENTACHLOROETHANE	0.000		0	N.D.	
127)	Hexachloroethane	0.000		0	N.D.	

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\112414\
Data File : 1124 01.D
Acq On : 24 Nov 2014 4:49 pm
Operator : 644
Sample : INSTBLK VMS
Misc : water IS/SURR14I25028
ALS Vial : 1 Sample Multiplier: 1
InstName : VOCMS7

Quant Time: Nov 25 02:00:17 2014
Quant Method : C:\msdchem\1\methods\V807K24N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS07
QLast Update : Mon Oct 20 13:22:28 2014
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\112414\
Data File : 1124 14.D
Acq On : 24 Nov 2014 9:00 pm
Operator : 644
Sample : INSTBLK
Misc : water IS/SURR14I25028
ALS Vial : 14 Sample Multiplier: 1
InstName : VOCMS7

Quant Time: Nov 25 02:01:22 2014
Quant Method : C:\msdchem\1\methods\V807K24N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS07
QLast Update : Mon Oct 20 13:22:28 2014
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 8260-PENTAFLUOROBENZENE	4.353	168	408449	40.0000000 ppb	0.00
41) 8260-1,4-DIFLUOROBENZENE	4.682	114	737315	40.0000000 ppb	0.00
53) 8260-2-BROMO-1-CHLOROP...	5.850	79	124075	40.0000000 ppb	0.00
84) 8260-1,4-DICHLOROBENZE...	8.253	152	341669	40.0000000 ppb	0.00
96) AP9-PENTAFLUOROBENZENE	4.353	168	408449	40.0000000 ppb	0.00
114) AP9-1,4-DIFLUOROBENZENE	4.682	114	737315	40.0000000 ppb	0.00
122) AP9-2-BROMO-1-CHLOROPR...	5.850	79	124075	40.0000000 ppb	# 0.00
128) AP9-1,4-DICHLOROBENZEN...	8.253	152	341669	40.0000000 ppb	0.00
System Monitoring Compounds					
33) DIBROMOFLUOROMETHANE	4.110	111	216912	42.6752149 ppb	0.00
Spiked Amount 40.000	Range 78 - 121		Recovery = 106.69%		
46) a,a,a-Trifluorotoluene	5.053	146	403587	41.9118566 ppb	0.00
Spiked Amount 40.000	Range 85 - 114		Recovery = 104.78%		
50) TOLUENE-D8	5.515	98	906206	40.9712117 ppb	0.00
Spiked Amount 40.000	Range 89 - 111		Recovery = 102.43%		
68) 4-BROMOFLUOROBENZENE	7.401	95	348633	40.9881210 ppb	0.00
Spiked Amount 40.000	Range 71 - 126		Recovery = 102.47%		
Target Compounds					Qvalue
2) TPH (GC/MS) LOW FRACTION	4.406	TIC -3340950		No Calib	
3) PROPENE	1.670	41	1561	1.8187312 ppb #	60
4) DICHLORODIFLUOROMETHANE	0.000		0	N.D.	
5) CHLOROMETHANE	1.883	50	1153	N.D.	
6) VINYL CHLORIDE	0.000		0	N.D.	
7) 1,3-BUTADIENE	1.968	39	2037	0.4924047 ppb #	29
8) BROMOMETHANE	2.218	94	1929	0.5989764 ppb #	59
9) CHLOROETHANE	2.254	66	529	0.4638980 ppb #	1
10) TRICHLOROFLUOROMETHANE	0.000		0	N.D.	
11) DICHLOROFLUOROMETHANE	2.431	67	876	N.D.	
12) ETHYL ETHER	0.000		0	N.D.	
13) ACROLEIN	2.954	56	2782	3.4617894 ppb #	80
14) 1,1-DICHLOROETHENE	2.747	61	1164	N.D.	
15) 1,1,2-TRICHLOROTRIFLUO...	0.000		0	N.D.	
16) ACETONE	3.130	43	3131	2.2499173 ppb #	80
17) IODOMETHANE	2.857	142	2952	0.5579057 ppb #	78
18) CARBON DISULFIDE	2.784	76	4185	N.D.	
19) METHYLENE CHLORIDE	3.100	84	1004	N.D.	
20) ACRYLONITRILE	3.587	53	2988	1.5999676 ppb	97
21) n-Hexane	3.240	56	809	N.D.	
22) TRANS-1,2-DICHLOROETHENE	3.203	96	848	N.D.	
23) METHYL TERT-BUTYL ETHER	3.246	73	710	N.D.	
24) 1,1-DICHLOROETHANE	0.000		0	N.D.	
25) VINYL ACETATE	3.672	43	5484	0.5981797 ppb #	76
26) DI-ISOPROPYL ETHER	3.447	45	1461	N.D.	
27) 2,2-Dichloropropane	0.000		0	N.D.	
28) CIS-1,2-DICHLOROETHENE	3.866	96	1240	N.D.	
29) 2-BUTANONE (MEK)	4.171	72	1054	1.6452924 ppb	98
30) BROMOCHLOROMETHANE	0.000		0	N.D.	
31) TETRAHYDROFURAN	4.104	42	1503	0.8690104 ppb #	53
32) CHLOROFORM	4.000	83	1355	N.D.	
34) 1,1,1-TRICHLOROETHANE	4.140	97	562	N.D.	
35) CARBON TETRACHLORIDE	0.000		0	N.D.	

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\112414\
Data File : 1124 14.D
Acq On : 24 Nov 2014 9:00 pm
Operator : 644
Sample : INSTBLK
Misc : water IS/SURR14I25028
ALS Vial : 14 Sample Multiplier: 1
InstName : VOCMS7

Quant Time: Nov 25 02:01:22 2014
Quant Method : C:\msdchem\1\methods\V807K24N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS07
QLast Update : Mon Oct 20 13:22:28 2014
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units		Dev(Min)
36) 1,1-Dichloropropene	4.207	75	1315	N.D.		
37) 2,2,4-TRIMETHYLPENTANE	4.250	57	6556	0.3111416 ppb		99
38) HEPTANE	4.286	43	2047	N.D.		
39) BENZENE	4.353	78	4966	N.D.		
40) 1,2-DICHLOROETHANE	4.469	62	735	N.D.		
42) TRICHLOROETHENE	4.675	130	1484	N.D.		
43) 1,2-DICHLOROPROPANE	4.998	62	569	N.D.		
44) DIBROMOMETHANE	4.943	93	981	0.3354580 ppb		87
45) BROMODICHLOROMETHANE	5.016	83	1391	N.D.		
47) 2-CHLOROETHYL VINYL ETHER	0.000		0	N.D.		
48) CIS-1,3-DICHLOROPROPENE	5.399	75	776	N.D.		
49) 4-METHYL-2-PENTANONE (...	5.764	58	5675	2.6328927 ppb		98
51) TOLUENE	5.552	91	10271	0.4521811 ppb		97
52) TRANS-1,3-DICHLOROPROPENE	0.000		0	N.D.		
54) 1,1,2-TRICHLOROETHANE	5.904	97	1675	0.3703468 ppb	#	71
55) TETRACHLOROETHENE	5.801	164	1734	0.4457712 ppb		91
56) 1,3-Dichloropropane	6.099	76	3321	0.3883905 ppb		97
57) 2-HEXANONE	6.306	58	9851	4.2336071 ppb		95
58) CHLORODIBROMOMETHANE	6.032	129	1624	0.3373001 ppb	#	74
59) 1,2-DIBROMOETHANE	6.215	107	2056	0.4454793 ppb	#	67
60) CHLOROBENZENE	6.555	112	8730	0.5995170 ppb		95
61) 1,1,1,2-TETRACHLOROETHANE	6.592	133	1306	N.D.		
62) ETHYLBENZENE	6.555	106	5087	0.6198976 ppb		94
63) M&P-XYLENE	6.647	106	12245	1.1891845 ppb		99
64) O-XYLENE	6.957	106	5917	0.5883560 ppb		88
65) STYRENE	6.993	104	11205	0.7223024 ppb		98
66) Bromoform	7.030	173	1816	0.6032456 ppb	#	84
67) Isopropylbenzene	7.176	105	20489	0.8170302 ppb		98
69) Bromobenzene	7.492	77	11789	1.1067059 ppb		92
70) 1,1,2,2-TETRACHLOROETHANE	7.529	83	6086	0.9323153 ppb	#	95
71) 1,2,3-TRICHLOROPROPANE	7.650	110	1343	0.8315079 ppb	#	62
72) TRANS-1,4-DICHLORO-2-B...	0.000		0	N.D.		
73) n-Propylbenzene	7.480	91	29467	0.9716294 ppb		96
74) 4-ETHYLTOLUENE	7.559	105	25165	1.0036501 ppb		97
75) 2-Chlorotoluene	7.614	126	5440	0.9775713 ppb		92
76) 4-Chlorotoluene	7.742	91	19309	1.0813144 ppb		97
77) 1,3,5-Trimethylbenzene	7.620	105	23250	1.1458698 ppb		98
78) tert-Butylbenzene	7.869	119	22707	1.3160081 ppb		98
79) 1,2,4-Trimethylbenzene	7.918	105	26046	1.2562881 ppb		97
80) sec-Butylbenzene	8.003	105	41694	1.5212178 ppb		100
81) 1,3-DICHLOROBENZENE	8.198	146	16706	1.5120004 ppb		98
82) p-Isopropyltoluene	8.107	119	38790	1.7623927 ppb		99
83) DICYCLOPENTADIENE	8.113	66	27806	1.0997820 ppb		98
85) 1,4-DICHLOROBENZENE	8.265	146	16607	1.5441513 ppb	#	1
86) 1,2,3-TRIMETHYLBENZENE	8.265	105	31094	1.5654611 ppb		99
87) 1,2-DICHLOROBENZENE	8.599	146	18372	1.8096488 ppb		97
88) n-Butylbenzene	8.441	91	52815	2.5439974 ppb		99
89) 1,2-Dibromo-3-chloropr...	9.244	157	3868	2.9708388 ppb		96
90) 1,2,4-Trichlorobenzene	9.798	180	34520	5.1144833 ppb		97
91) HEXACHLORO-1,3-BUTADIENE	9.761	225	22196	6.0832355 ppb		98
92) Naphthalene	10.072	128	111287	5.8093320 ppb		99
93) 1,2,3-Trichlorobenzene	10.230	180	38832	6.2336847 ppb		98
94) 1-Methylnaphthalene	10.887	142	138097	15.2165267 ppb		98
95) 2-Methylnaphthalene	11.002	142	114748	15.1789196 ppb		97

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\112414\
Data File : 1124 14.D
Acq On : 24 Nov 2014 9:00 pm
Operator : 644
Sample : INSTBLK
Misc : water IS/SURR14I25028
ALS Vial : 14 Sample Multiplier: 1
InstName : VOCMS7

Quant Time: Nov 25 02:01:22 2014
Quant Method : C:\msdchem\1\methods\V807K24N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS07
QLast Update : Mon Oct 20 13:22:28 2014
Response via : Initial Calibration

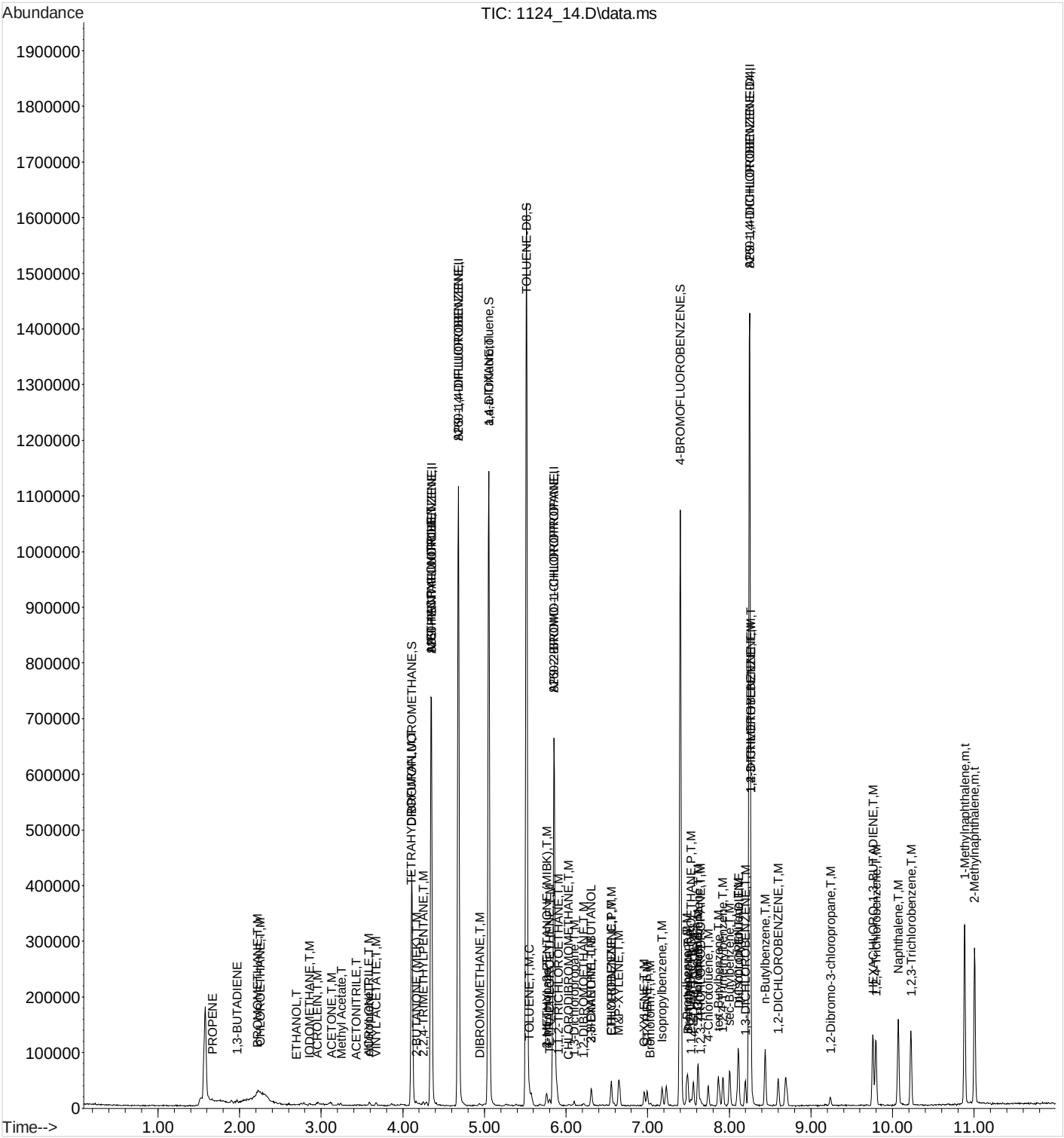
	Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
97)	ETHANOL	2.698	45	638	8.2082101 ppb #	41
98)	Bromoethane	0.000		0	N.D.	
99)	2-PROPANOL	0.000		0	N.D.	
100)	Methyl Acetate	3.246	43	1073	0.3098751 ppb #	54
101)	ACETONITRILE	3.428	41	523	0.7281158 ppb #	1
102)	ALLYL CHLORIDE	0.000		0	N.D.	
103)	tert-BUTYL ALCOHOL	0.000		0	N.D.	
104)	chloroprene	3.587	53	2988	0.7080422 ppb #	20
105)	ETHYL TERT-BUTYL ETHER	0.000		0	N.D.	
106)	PROPIONITRILE	0.000		0	N.D.	
107)	Ethyl Acetate	0.000		0	N.D.	
108)	METHACRYLONITRILE	4.347	67	1093	0.5555702 ppb #	19
109)	Cyclohexane	0.000		0	N.D.	
110)	tert-butyl formate	0.000		0	N.D.	
111)	ISOBUTANOL	0.000		0	N.D.	
112)	t-Amyl Alcohol	0.000		0	N.D.	
113)	TERT-AMYL METHYL ETHER	4.353	73	642	N.D.	
115)	N-BUTANOL	0.000		0	N.D.	
116)	Methyl Cyclohexane	4.675	83	7353	N.D.	
117)	2-nitropropane	5.764	43	13890	10.4111943 ppb #	44
118)	METHYL METHACRYLATE	5.095	41	558	N.D.	
119)	1,4-DIOXANE	5.053	88	3574	57.9020399 ppb #	39
120)	n-octane	0.000		0	N.D.	
121)	3,3-DIMETHYL-1-BUTANOL	6.306	57	3884	7.1506260 ppb #	15
123)	ETHYL METHACRYLATE	0.000		0	N.D.	
124)	CIS-1,4-DICHLORO-2-BUTENE	0.000		0	N.D.	
125)	Cyclohexanone	7.681	55	841	No Calib #	
126)	PENTACHLOROETHANE	7.924	117	865	N.D.	
127)	Hexachloroethane	0.000		0	N.D.	

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\112414\
Data File : 1124 14.D
Acq On : 24 Nov 2014 9:00 pm
Operator : 644
Sample : INSTBLK
Misc : water IS/SURR14I25028
ALS Vial : 14 Sample Multiplier: 1
InstName : VOCMS7

Quant Time: Nov 25 02:01:22 2014
Quant Method : C:\msdchem\1\methods\V807K24N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS07
QLast Update : Mon Oct 20 13:22:28 2014
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\112414\
Data File : 1124 14.D
Acq On : 24 Nov 2014 9:00 pm
Operator : 644
Sample : INSTBLK
Misc : water IS/SURR14I25028
ALS Vial : 14 Sample Multiplier: 1
InstName : VOCMS7

Quant Time: Nov 25 02:01:22 2014
Quant Method : C:\msdchem\1\methods\V807K24N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS07
QLast Update : Mon Oct 20 13:22:28 2014
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 8260-PENTAFLUOROBENZENE	4.353	168	408449	40.0000000 ppb	0.00
41) 8260-1,4-DIFLUOROBENZENE	4.682	114	737315	40.0000000 ppb	0.00
53) 8260-2-BROMO-1-CHLOROP...	5.850	79	124075	40.0000000 ppb	0.00
84) 8260-1,4-DICHLOROBENZE...	8.253	152	341669	40.0000000 ppb	0.00
96) AP9-PENTAFLUOROBENZENE	4.353	168	408449	40.0000000 ppb	0.00
114) AP9-1,4-DIFLUOROBENZENE	4.682	114	737315	40.0000000 ppb	0.00
122) AP9-2-BROMO-1-CHLOROPR...	5.850	79	124075	40.0000000 ppb	# 0.00
128) AP9-1,4-DICHLOROBENZEN...	8.253	152	341669	40.0000000 ppb	0.00
System Monitoring Compounds					
33) DIBROMOFLUOROMETHANE	4.110	111	216912	42.6752149 ppb	0.00
Spiked Amount 40.000	Range 78 - 121		Recovery = 106.69%		
46) a,a,a-Trifluorotoluene	5.053	146	403587	41.9118566 ppb	0.00
Spiked Amount 40.000	Range 85 - 114		Recovery = 104.78%		
50) TOLUENE-D8	5.515	98	906206	40.9712117 ppb	0.00
Spiked Amount 40.000	Range 89 - 111		Recovery = 102.43%		
68) 4-BROMOFLUOROBENZENE	7.401	95	348633	40.9881210 ppb	0.00
Spiked Amount 40.000	Range 71 - 126		Recovery = 102.47%		
Target Compounds					Qvalue
2) TPH (GC/MS) LOW FRACTION	4.406	TIC -3340950		No Calib	
3) PROPENE	1.670	41	1561	1.8187312 ppb #	60
4) DICHLORODIFLUOROMETHANE	0.000		0	N.D.	
5) CHLOROMETHANE	1.883	50	1153	N.D.	
6) VINYL CHLORIDE	0.000		0	N.D.	
7) 1,3-BUTADIENE	1.968	39	2037	0.4924047 ppb #	29
8) BROMOMETHANE	2.218	94	1929	0.5989764 ppb #	59
9) CHLOROETHANE	2.254	66	529	0.4638980 ppb #	1
10) TRICHLOROFLUOROMETHANE	0.000		0	N.D.	
11) DICHLOROFLUOROMETHANE	2.431	67	876	N.D.	
12) ETHYL ETHER	0.000		0	N.D.	
13) ACROLEIN	2.954	56	2782	3.4617894 ppb #	80
14) 1,1-DICHLOROETHENE	2.747	61	1164	N.D.	
15) 1,1,2-TRICHLOROTRIFLUO...	0.000		0	N.D.	
16) ACETONE	3.130	43	3131	2.2499173 ppb #	80
17) IODOMETHANE	2.857	142	2952	0.5579057 ppb #	78
18) CARBON DISULFIDE	2.784	76	4185	N.D.	
19) METHYLENE CHLORIDE	3.100	84	1004	N.D.	
20) ACRYLONITRILE	3.587	53	2988	1.5999676 ppb	97
21) n-Hexane	3.240	56	809	N.D.	
22) TRANS-1,2-DICHLOROETHENE	3.203	96	848	N.D.	
23) METHYL TERT-BUTYL ETHER	3.246	73	710	N.D.	
24) 1,1-DICHLOROETHANE	0.000		0	N.D.	
25) VINYL ACETATE	3.672	43	5484	0.5981797 ppb #	76
26) DI-ISOPROPYL ETHER	3.447	45	1461	N.D.	
27) 2,2-Dichloropropane	0.000		0	N.D.	
28) CIS-1,2-DICHLOROETHENE	3.866	96	1240	N.D.	
29) 2-BUTANONE (MEK)	4.171	72	1054	1.6452924 ppb	98
30) BROMOCHLOROMETHANE	0.000		0	N.D.	
31) TETRAHYDROFURAN	4.104	42	1503	0.8690104 ppb #	53
32) CHLOROFORM	4.000	83	1355	N.D.	
34) 1,1,1-TRICHLOROETHANE	4.140	97	562	N.D.	
35) CARBON TETRACHLORIDE	0.000		0	N.D.	

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\112414\
Data File : 1124 14.D
Acq On : 24 Nov 2014 9:00 pm
Operator : 644
Sample : INSTBLK
Misc : water IS/SURR14I25028
ALS Vial : 14 Sample Multiplier: 1
InstName : VOCMS7

Quant Time: Nov 25 02:01:22 2014
Quant Method : C:\msdchem\1\methods\V807K24N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS07
QLast Update : Mon Oct 20 13:22:28 2014
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units		Dev(Min)
36) 1,1-Dichloropropene	4.207	75	1315	N.D.		
37) 2,2,4-TRIMETHYLPENTANE	4.250	57	6556	0.3111416 ppb		99
38) HEPTANE	4.286	43	2047	N.D.		
39) BENZENE	4.353	78	4966	N.D.		
40) 1,2-DICHLOROETHANE	4.469	62	735	N.D.		
42) TRICHLOROETHENE	4.675	130	1484	N.D.		
43) 1,2-DICHLOROPROPANE	4.998	62	569	N.D.		
44) DIBROMOMETHANE	4.943	93	981	0.3354580 ppb		87
45) BROMODICHLOROMETHANE	5.016	83	1391	N.D.		
47) 2-CHLOROETHYL VINYL ETHER	0.000		0	N.D.		
48) CIS-1,3-DICHLOROPROPENE	5.399	75	776	N.D.		
49) 4-METHYL-2-PENTANONE (...	5.764	58	5675	2.6328927 ppb		98
51) TOLUENE	5.552	91	10271	0.4521811 ppb		97
52) TRANS-1,3-DICHLOROPROPENE	0.000		0	N.D.		
54) 1,1,2-TRICHLOROETHANE	5.904	97	1675	0.3703468 ppb	#	71
55) TETRACHLOROETHENE	5.801	164	1734	0.4457712 ppb		91
56) 1,3-Dichloropropane	6.099	76	3321	0.3883905 ppb		97
57) 2-HEXANONE	6.306	58	9851	4.2336071 ppb		95
58) CHLORODIBROMOMETHANE	6.032	129	1624	0.3373001 ppb	#	74
59) 1,2-DIBROMOETHANE	6.215	107	2056	0.4454793 ppb	#	67
60) CHLOROBENZENE	6.555	112	8730	0.5995170 ppb		95
61) 1,1,1,2-TETRACHLOROETHANE	6.592	133	1306	N.D.		
62) ETHYLBENZENE	6.555	106	5087	0.6198976 ppb		94
63) M&P-XYLENE	6.647	106	12245	1.1891845 ppb		99
64) O-XYLENE	6.957	106	5917	0.5883560 ppb		88
65) STYRENE	6.993	104	11205	0.7223024 ppb		98
66) Bromoform	7.030	173	1816	0.6032456 ppb	#	84
67) Isopropylbenzene	7.176	105	20489	0.8170302 ppb		98
69) Bromobenzene	7.492	77	11789	1.1067059 ppb		92
70) 1,1,2,2-TETRACHLOROETHANE	7.529	83	6086	0.9323153 ppb	#	95
71) 1,2,3-TRICHLOROPROPANE	7.650	110	1343	0.8315079 ppb	#	62
72) TRANS-1,4-DICHLORO-2-B...	0.000		0	N.D.		
73) n-Propylbenzene	7.480	91	29467	0.9716294 ppb		96
74) 4-ETHYLTOLUENE	7.559	105	25165	1.0036501 ppb		97
75) 2-Chlorotoluene	7.614	126	5440	0.9775713 ppb		92
76) 4-Chlorotoluene	7.742	91	19309	1.0813144 ppb		97
77) 1,3,5-Trimethylbenzene	7.620	105	23250	1.1458698 ppb		98
78) tert-Butylbenzene	7.869	119	22707	1.3160081 ppb		98
79) 1,2,4-Trimethylbenzene	7.918	105	26046	1.2562881 ppb		97
80) sec-Butylbenzene	8.003	105	41694	1.5212178 ppb		100
81) 1,3-DICHLOROBENZENE	8.198	146	16706	1.5120004 ppb		98
82) p-Isopropyltoluene	8.107	119	38790	1.7623927 ppb		99
83) DICYCLOPENTADIENE	8.113	66	27806	1.0997820 ppb		98
85) 1,4-DICHLOROBENZENE	8.265	146	16607	1.5441513 ppb	#	1
86) 1,2,3-TRIMETHYLBENZENE	8.265	105	31094	1.5654611 ppb		99
87) 1,2-DICHLOROBENZENE	8.599	146	18372	1.8096488 ppb		97
88) n-Butylbenzene	8.441	91	52815	2.5439974 ppb		99
89) 1,2-Dibromo-3-chloropr...	9.244	157	3868	2.9708388 ppb		96
90) 1,2,4-Trichlorobenzene	9.798	180	34520	5.1144833 ppb		97
91) HEXACHLORO-1,3-BUTADIENE	9.761	225	22196	6.0832355 ppb		98
92) Naphthalene	10.072	128	111287	5.8093320 ppb		99
93) 1,2,3-Trichlorobenzene	10.230	180	38832	6.2336847 ppb		98
94) 1-Methylnaphthalene	10.887	142	138097	15.2165267 ppb		98
95) 2-Methylnaphthalene	11.002	142	114748	15.1789196 ppb		97

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\112414\
Data File : 1124 14.D
Acq On : 24 Nov 2014 9:00 pm
Operator : 644
Sample : INSTBLK
Misc : water IS/SURR14I25028
ALS Vial : 14 Sample Multiplier: 1
InstName : VOCMS7

Quant Time: Nov 25 02:01:22 2014
Quant Method : C:\msdchem\1\methods\V807K24N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS07
QLast Update : Mon Oct 20 13:22:28 2014
Response via : Initial Calibration

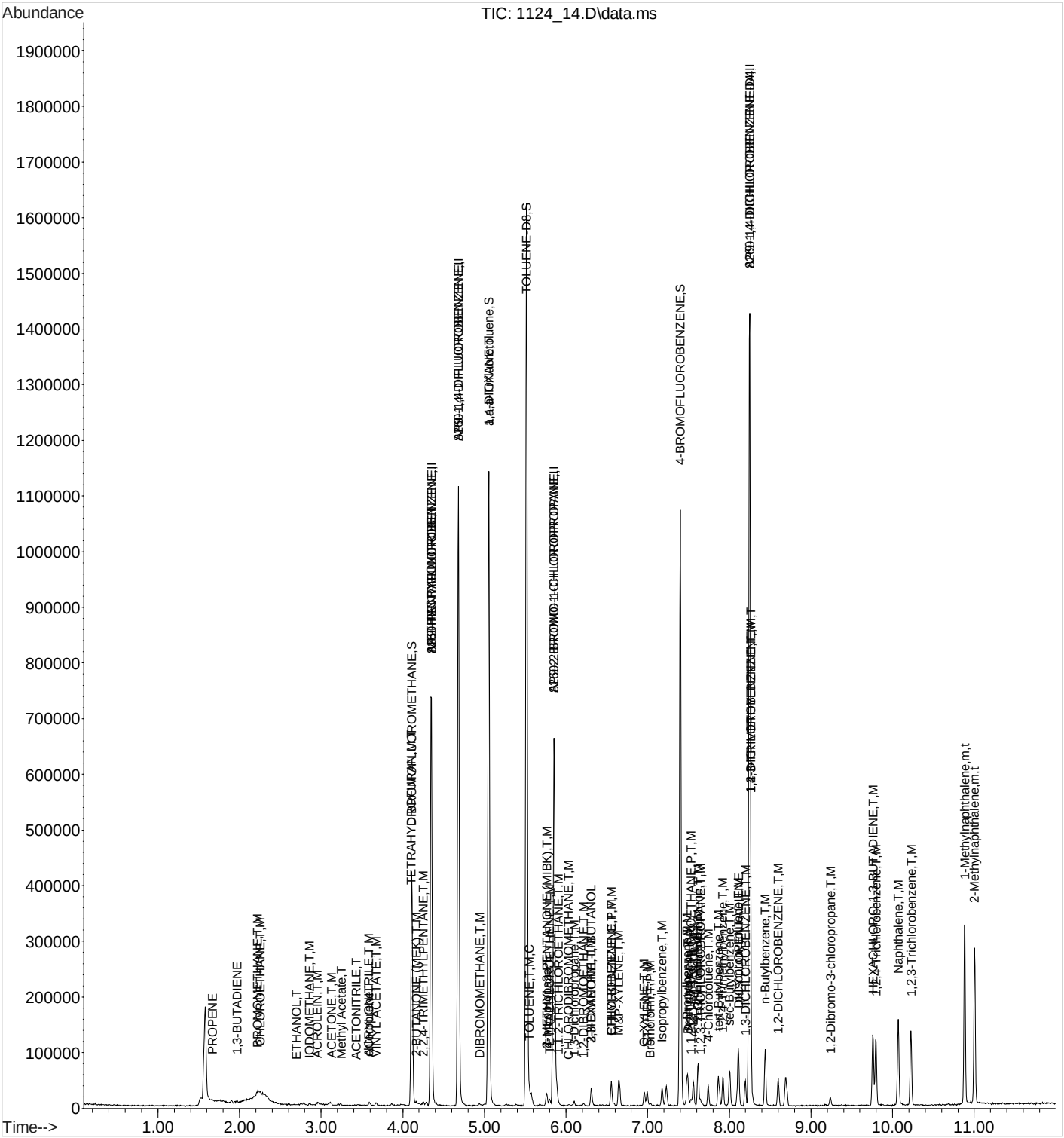
	Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
97)	ETHANOL	2.698	45	638	8.2082101 ppb #	41
98)	Bromoethane	0.000		0	N.D.	
99)	2-PROPANOL	0.000		0	N.D.	
100)	Methyl Acetate	3.246	43	1073	0.3098751 ppb #	54
101)	ACETONITRILE	3.428	41	523	0.7281158 ppb #	1
102)	ALLYL CHLORIDE	0.000		0	N.D.	
103)	tert-BUTYL ALCOHOL	0.000		0	N.D.	
104)	chloroprene	3.587	53	2988	0.7080422 ppb #	20
105)	ETHYL TERT-BUTYL ETHER	0.000		0	N.D.	
106)	PROPIONITRILE	0.000		0	N.D.	
107)	Ethyl Acetate	0.000		0	N.D.	
108)	METHACRYLONITRILE	4.347	67	1093	0.5555702 ppb #	19
109)	Cyclohexane	0.000		0	N.D.	
110)	tert-butyl formate	0.000		0	N.D.	
111)	ISOBUTANOL	0.000		0	N.D.	
112)	t-Amyl Alcohol	0.000		0	N.D.	
113)	TERT-AMYL METHYL ETHER	4.353	73	642	N.D.	
115)	N-BUTANOL	0.000		0	N.D.	
116)	Methyl Cyclohexane	4.675	83	7353	N.D.	
117)	2-nitropropane	5.764	43	13890	10.4111943 ppb #	44
118)	METHYL METHACRYLATE	5.095	41	558	N.D.	
119)	1,4-DIOXANE	5.053	88	3574	57.9020399 ppb #	39
120)	n-octane	0.000		0	N.D.	
121)	3,3-DIMETHYL-1-BUTANOL	6.306	57	3884	7.1506260 ppb #	15
123)	ETHYL METHACRYLATE	0.000		0	N.D.	
124)	CIS-1,4-DICHLORO-2-BUTENE	0.000		0	N.D.	
125)	Cyclohexanone	7.681	55	841	No Calib #	
126)	PENTACHLOROETHANE	7.924	117	865	N.D.	
127)	Hexachloroethane	0.000		0	N.D.	

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\112414\
Data File : 1124 14.D
Acq On : 24 Nov 2014 9:00 pm
Operator : 644
Sample : INSTBLK
Misc : water IS/SURR14I25028
ALS Vial : 14 Sample Multiplier: 1
InstName : VOCMS7

Quant Time: Nov 25 02:01:22 2014
Quant Method : C:\msdchem\1\methods\V807K24N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS07
QLast Update : Mon Oct 20 13:22:28 2014
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\112414\
Data File : 1124 16.D
Acq On : 24 Nov 2014 9:38 pm
Operator : 644
Sample : INSTBLK
Misc : water IS/SURR14I25028
ALS Vial : 16 Sample Multiplier: 1
InstName : VOCMS7

Quant Time: Nov 25 02:01:32 2014
Quant Method : C:\msdchem\1\methods\V807K24N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS07
QLast Update : Mon Oct 20 13:22:28 2014
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 8260-PENTAFLUOROBENZENE	4.353	168	393846	40.0000000	ppb	0.00
41) 8260-1,4-DIFLUOROBENZENE	4.682	114	714277	40.0000000	ppb	0.00
53) 8260-2-BROMO-1-CHLOROP...	5.850	79	118960	40.0000000	ppb	0.00
84) 8260-1,4-DICHLOROBENZE...	8.253	152	343752	40.0000000	ppb	0.00
96) AP9-PENTAFLUOROBENZENE	4.353	168	393846	40.0000000	ppb	0.00
114) AP9-1,4-DIFLUOROBENZENE	4.682	114	714277	40.0000000	ppb	0.00
122) AP9-2-BROMO-1-CHLOROPR...	5.850	79	118960	40.0000000	ppb	# 0.00
128) AP9-1,4-DICHLOROBENZEN...	8.253	152	343752	40.0000000	ppb	0.00
System Monitoring Compounds						
33) DIBROMOFLUOROMETHANE	4.110	111	209913	42.8294869	ppb	0.00
Spiked Amount 40.000	Range 78 - 121		Recovery = 107.07%			
46) a,a,a-Trifluorotoluene	5.053	146	395016	42.3448716	ppb	0.00
Spiked Amount 40.000	Range 85 - 114		Recovery = 105.86%			
50) TOLUENE-D8	5.515	98	890071	41.5396592	ppb	0.00
Spiked Amount 40.000	Range 89 - 111		Recovery = 103.85%			
68) 4-BROMOFLUOROBENZENE	7.401	95	343982	42.1801930	ppb	0.00
Spiked Amount 40.000	Range 71 - 126		Recovery = 105.45%			
Target Compounds						Qvalue
2) TPH (GC/MS) LOW FRACTION	4.406	TIC -3439301		No Calib		
3) PROPENE	1.676	41	1198	1.4475509	ppb #	59
4) DICHLORODIFLUOROMETHANE	0.000		0	N.D.		
5) CHLOROMETHANE	0.000		0	N.D.		
6) VINYL CHLORIDE	0.000		0	N.D.		
7) 1,3-BUTADIENE	1.968	39	883	N.D.		
8) BROMOMETHANE	2.212	94	925	N.D.		
9) CHLOROETHANE	0.000		0	N.D.		
10) TRICHLOROFLUOROMETHANE	0.000		0	N.D.		
11) DICHLOROFLUOROMETHANE	2.418	67	586	N.D.		
12) ETHYL ETHER	0.000		0	N.D.		
13) ACROLEIN	2.954	56	1498	1.9331552	ppb	95
14) 1,1-DICHLOROETHENE	0.000		0	N.D.		
15) 1,1,2-TRICHLOROTRIFLUO...	0.000		0	N.D.		
16) ACETONE	3.130	43	2263	1.6864732	ppb #	84
17) IODOMETHANE	2.857	142	2110	0.4135598	ppb #	46
18) CARBON DISULFIDE	2.790	76	2387	N.D.		
19) METHYLENE CHLORIDE	3.100	84	799	N.D.		
20) ACRYLONITRILE	3.587	53	893	0.4958992	ppb #	81
21) n-Hexane	0.000		0	N.D.		
22) TRANS-1,2-DICHLOROETHENE	0.000		0	N.D.		
23) METHYL TERT-BUTYL ETHER	0.000		0	N.D.		
24) 1,1-DICHLOROETHANE	0.000		0	N.D.		
25) VINYL ACETATE	3.678	43	1927	N.D.		
26) DI-ISOPROPYL ETHER	0.000		0	N.D.		
27) 2,2-Dichloropropane	0.000		0	N.D.		
28) CIS-1,2-DICHLOROETHENE	0.000		0	N.D.		
29) 2-BUTANONE (MEK)	0.000		0	N.D.		
30) BROMOCHLOROMETHANE	0.000		0	N.D.		
31) TETRAHYDROFURAN	4.110	42	927	0.5558494	ppb #	11
32) CHLOROFORM	0.000		0	N.D.		
34) 1,1,1-TRICHLOROETHANE	0.000		0	N.D.		
35) CARBON TETRACHLORIDE	0.000		0	N.D.		

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\112414\
Data File : 1124 16.D
Acq On : 24 Nov 2014 9:38 pm
Operator : 644
Sample : INSTBLK
Misc : water IS/SURR14I25028
ALS Vial : 16 Sample Multiplier: 1
InstName : VOCMS7

Quant Time: Nov 25 02:01:32 2014
Quant Method : C:\msdchem\1\methods\V807K24N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS07
QLast Update : Mon Oct 20 13:22:28 2014
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
36) 1,1-Dichloropropene	0.000		0	N.D.	
37) 2,2,4-TRIMETHYLPENTANE	4.256	57	3437	N.D.	
38) HEPTANE	4.292	43	1454	N.D.	
39) BENZENE	4.353	78	1642	N.D.	
40) 1,2-DICHLOROETHANE	0.000		0	N.D.	
42) TRICHLOROETHENE	0.000		0	N.D.	
43) 1,2-DICHLOROPROPANE	5.047	62	5902	1.5356871 ppb #	2
44) DIBROMOMETHANE	0.000		0	N.D.	
45) BROMODICHLOROMETHANE	5.022	83	520	N.D.	
47) 2-CHLOROETHYL VINYL ETHER	0.000		0	N.D.	
48) CIS-1,3-DICHLOROPROPENE	0.000		0	N.D.	
49) 4-METHYL-2-PENTANONE (...	5.758	58	1550	0.7423101 ppb #	42
51) TOLUENE	5.552	91	4619	N.D.	
52) TRANS-1,3-DICHLOROPROPENE	0.000		0	N.D.	
54) 1,1,2-TRICHLOROETHANE	0.000		0	N.D.	
55) TETRACHLOROETHENE	0.000		0	N.D.	
56) 1,3-Dichloropropane	6.105	76	1313	N.D.	
57) 2-HEXANONE	6.306	58	3151	1.4124138 ppb	83
58) CHLORODIBROMOMETHANE	0.000		0	N.D.	
59) 1,2-DIBROMOETHANE	6.215	107	610	N.D.	
60) CHLOROBENZENE	6.555	112	2510	N.D.	
61) 1,1,1,2-TETRACHLOROETHANE	0.000		0	N.D.	
62) ETHYLBENZENE	6.555	106	1381	N.D.	
63) M&P-XYLENE	6.653	106	4634	0.4693856 ppb	98
64) O-XYLENE	6.957	106	2003	N.D.	
65) STYRENE	6.993	104	3414	N.D.	
66) Bromoform	0.000		0	N.D.	
67) Isopropylbenzene	7.176	105	5388	N.D.	
69) Bromobenzene	7.486	77	3815	0.3735366 ppb	92
70) 1,1,2,2-TETRACHLOROETHANE	7.529	83	1640	N.D.	
71) 1,2,3-TRICHLOROPROPANE	0.000		0	N.D.	
72) TRANS-1,4-DICHLORO-2-B...	0.000		0	N.D.	
73) n-Propylbenzene	7.480	91	8402	N.D.	
74) 4-ETHYLTOLUENE	7.559	105	7877	0.3276646 ppb	93
75) 2-Chlorotoluene	7.614	126	1589	N.D.	
76) 4-Chlorotoluene	7.742	91	6073	0.3547144 ppb #	89
77) 1,3,5-Trimethylbenzene	7.620	105	5528	N.D.	
78) tert-Butylbenzene	7.869	119	5075	0.3067737 ppb	88
79) 1,2,4-Trimethylbenzene	7.918	105	8360	0.4205695 ppb	96
80) sec-Butylbenzene	8.003	105	10973	0.4175674 ppb	99
81) 1,3-DICHLOROBENZENE	8.198	146	5168	0.4878488 ppb	90
82) p-Isopropyltoluene	8.107	119	9731	0.4611303 ppb	97
83) DICYCLOPENTADIENE	8.113	66	6562	N.D.	
85) 1,4-DICHLOROBENZENE	8.259	146	5552	0.5131076 ppb #	1
86) 1,2,3-TRIMETHYLBENZENE	8.265	105	8784	0.4395602 ppb	99
87) 1,2-DICHLOROBENZENE	8.599	146	5048	0.4942168 ppb	93
88) n-Butylbenzene	8.441	91	13720	0.6568615 ppb	99
89) 1,2-Dibromo-3-chloropr...	9.238	157	778	0.5939263 ppb	92
90) 1,2,4-Trichlorobenzene	9.798	180	7636	1.1244943 ppb	97
91) HEXACHLORO-1,3-BUTADIENE	9.755	225	3983	1.0850021 ppb	98
92) Naphthalene	10.072	128	27390	1.4211311 ppb	99
93) 1,2,3-Trichlorobenzene	10.224	180	7805	1.2453411 ppb	98
94) 1-Methylnaphthalene	10.887	142	30688	3.3609358 ppb	98
95) 2-Methylnaphthalene	11.009	142	26801	3.5237661 ppb	94

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\112414\
Data File : 1124 16.D
Acq On : 24 Nov 2014 9:38 pm
Operator : 644
Sample : INSTBLK
Misc : water IS/SURR14I25028
ALS Vial : 16 Sample Multiplier: 1
InstName : VOCMS7

Quant Time: Nov 25 02:01:32 2014
Quant Method : C:\msdchem\1\methods\V807K24N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS07
QLast Update : Mon Oct 20 13:22:28 2014
Response via : Initial Calibration

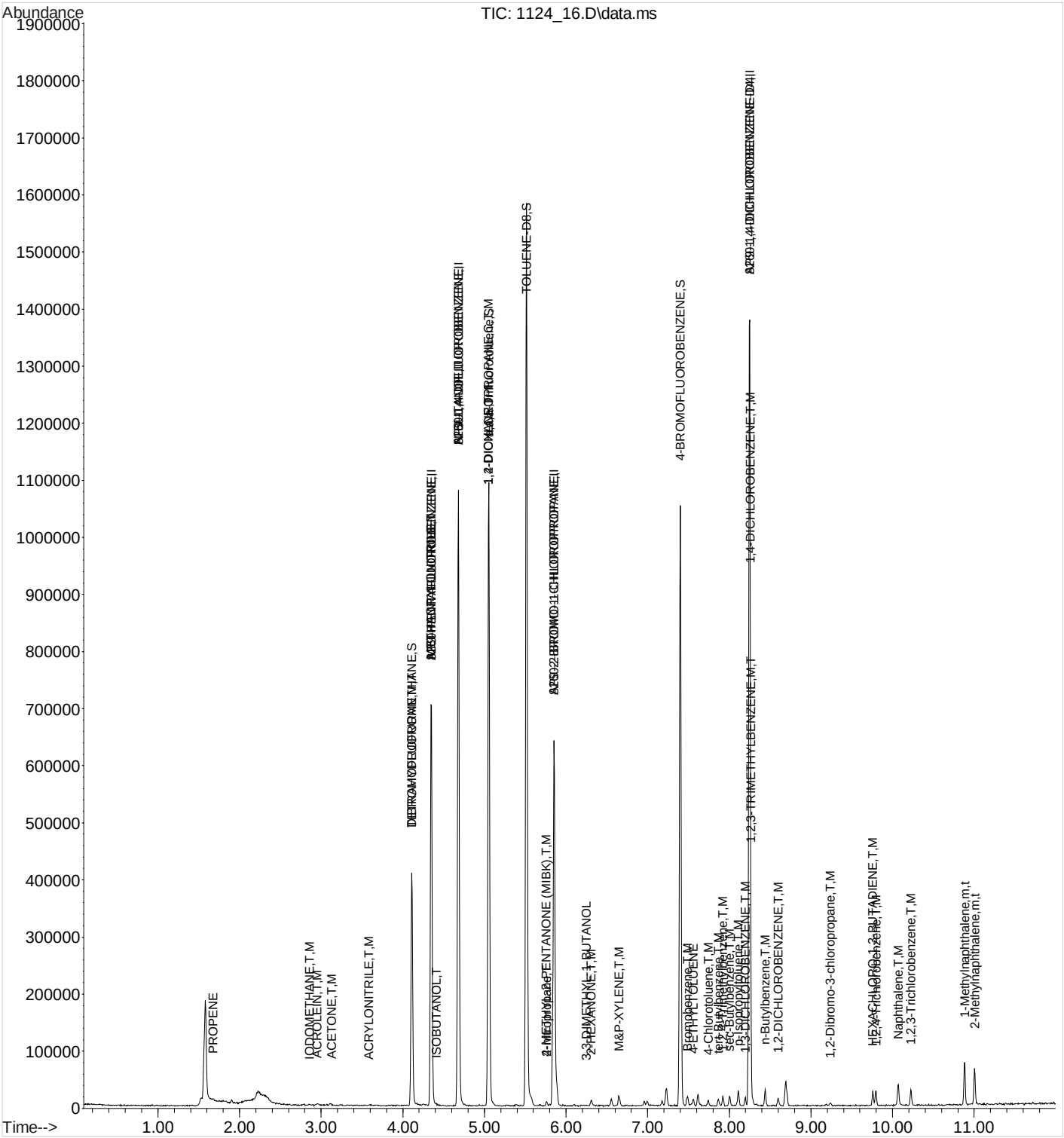
	Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
97)	ETHANOL	0.000		0	N.D.	
98)	Bromoethane	0.000		0	N.D.	
99)	2-PROPANOL	0.000		0	N.D.	
100)	Methyl Acetate	3.246	43	715	N.D.	
101)	ACETONITRILE	0.000		0	N.D.	
102)	ALLYL CHLORIDE	0.000		0	N.D.	
103)	tert-BUTYL ALCOHOL	0.000		0	N.D.	
104)	chloroprene	3.587	53	893	N.D.	
105)	ETHYL TERT-BUTYL ETHER	0.000		0	N.D.	
106)	PROPIONITRILE	0.000		0	N.D.	
107)	Ethyl Acetate	4.098	43	533	N.D.	
108)	METHACRYLONITRILE	4.347	67	859	0.4528176 ppb #	56
109)	Cyclohexane	0.000		0	N.D.	
110)	tert-butyl formate	0.000		0	N.D.	
111)	ISOBUTANOL	4.408	43	815	2.8712679 ppb #	72
112)	t-Amyl Alcohol	0.000		0	N.D.	
113)	TERT-AMYL METHYL ETHER	0.000		0	N.D.	
115)	N-BUTANOL	4.682	56	12318	68.5712944 ppb #	33
116)	Methyl Cyclohexane	4.682	83	7172	N.D.	
117)	2-nitropropane	5.764	43	4832	3.7386227 ppb #	41
118)	METHYL METHACRYLATE	5.034	41	836	N.D.	
119)	1,4-DIOXANE	5.047	88	3633	60.7562720 ppb #	38
120)	n-octane	0.000		0	N.D.	
121)	3,3-DIMETHYL-1-BUTANOL	6.251	57	797	1.5146405 ppb #	32
123)	ETHYL METHACRYLATE	0.000		0	N.D.	
124)	CIS-1,4-DICHLORO-2-BUTENE	0.000		0	N.D.	
125)	Cyclohexanone	7.705	55	512	No Calib #	
126)	PENTACHLOROETHANE	0.000		0	N.D.	
127)	Hexachloroethane	0.000		0	N.D.	

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\112414\
Data File : 1124 16.D
Acq On : 24 Nov 2014 9:38 pm
Operator : 644
Sample : INSTBLK
Misc : water IS/SURR14I25028
ALS Vial : 16 Sample Multiplier: 1
InstName : VOCMS7

Quant Time: Nov 25 02:01:32 2014
Quant Method : C:\msdchem\1\methods\V807K24N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS07
QLast Update : Mon Oct 20 13:22:28 2014
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\112414\
Data File : 1124 16.D
Acq On : 24 Nov 2014 9:38 pm
Operator : 644
Sample : INSTBLK
Misc : water IS/SURR14I25028
ALS Vial : 16 Sample Multiplier: 1
InstName : VOCMS7

Quant Time: Nov 25 02:01:32 2014
Quant Method : C:\msdchem\1\methods\V807K24N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS07
QLast Update : Mon Oct 20 13:22:28 2014
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 8260-PENTAFLUOROBENZENE	4.353	168	393846	40.0000000 ppb	0.00
41) 8260-1,4-DIFLUOROBENZENE	4.682	114	714277	40.0000000 ppb	0.00
53) 8260-2-BROMO-1-CHLOROP...	5.850	79	118960	40.0000000 ppb	0.00
84) 8260-1,4-DICHLOROBENZE...	8.253	152	343752	40.0000000 ppb	0.00
96) AP9-PENTAFLUOROBENZENE	4.353	168	393846	40.0000000 ppb	0.00
114) AP9-1,4-DIFLUOROBENZENE	4.682	114	714277	40.0000000 ppb	0.00
122) AP9-2-BROMO-1-CHLOROPR...	5.850	79	118960	40.0000000 ppb	# 0.00
128) AP9-1,4-DICHLOROBENZEN...	8.253	152	343752	40.0000000 ppb	0.00
System Monitoring Compounds					
33) DIBROMOFLUOROMETHANE	4.110	111	209913	42.8294869 ppb	0.00
Spiked Amount 40.000	Range 78 - 121		Recovery = 107.07%		
46) a,a,a-Trifluorotoluene	5.053	146	395016	42.3448716 ppb	0.00
Spiked Amount 40.000	Range 85 - 114		Recovery = 105.86%		
50) TOLUENE-D8	5.515	98	890071	41.5396592 ppb	0.00
Spiked Amount 40.000	Range 89 - 111		Recovery = 103.85%		
68) 4-BROMOFLUOROBENZENE	7.401	95	343982	42.1801930 ppb	0.00
Spiked Amount 40.000	Range 71 - 126		Recovery = 105.45%		
Target Compounds					Qvalue
2) TPH (GC/MS) LOW FRACTION	4.406	TIC -3439301		No Calib	
3) PROPENE	1.676	41	1198	1.4475509 ppb #	59
4) DICHLORODIFLUOROMETHANE	0.000		0	N.D.	
5) CHLOROMETHANE	0.000		0	N.D.	
6) VINYL CHLORIDE	0.000		0	N.D.	
7) 1,3-BUTADIENE	1.968	39	883	N.D.	
8) BROMOMETHANE	2.212	94	925	N.D.	
9) CHLOROETHANE	0.000		0	N.D.	
10) TRICHLOROFLUOROMETHANE	0.000		0	N.D.	
11) DICHLOROFLUOROMETHANE	2.418	67	586	N.D.	
12) ETHYL ETHER	0.000		0	N.D.	
13) ACROLEIN	2.954	56	1498	1.9331552 ppb	95
14) 1,1-DICHLOROETHENE	0.000		0	N.D.	
15) 1,1,2-TRICHLOROTRIFLUO...	0.000		0	N.D.	
16) ACETONE	3.130	43	2263	1.6864732 ppb #	84
17) IODOMETHANE	2.857	142	2110	0.4135598 ppb #	46
18) CARBON DISULFIDE	2.790	76	2387	N.D.	
19) METHYLENE CHLORIDE	3.100	84	799	N.D.	
20) ACRYLONITRILE	3.587	53	893	0.4958992 ppb #	81
21) n-Hexane	0.000		0	N.D.	
22) TRANS-1,2-DICHLOROETHENE	0.000		0	N.D.	
23) METHYL TERT-BUTYL ETHER	0.000		0	N.D.	
24) 1,1-DICHLOROETHANE	0.000		0	N.D.	
25) VINYL ACETATE	3.678	43	1927	N.D.	
26) DI-ISOPROPYL ETHER	0.000		0	N.D.	
27) 2,2-Dichloropropane	0.000		0	N.D.	
28) CIS-1,2-DICHLOROETHENE	0.000		0	N.D.	
29) 2-BUTANONE (MEK)	0.000		0	N.D.	
30) BROMOCHLOROMETHANE	0.000		0	N.D.	
31) TETRAHYDROFURAN	4.110	42	927	0.5558494 ppb #	11
32) CHLOROFORM	0.000		0	N.D.	
34) 1,1,1-TRICHLOROETHANE	0.000		0	N.D.	
35) CARBON TETRACHLORIDE	0.000		0	N.D.	

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\112414\
Data File : 1124 16.D
Acq On : 24 Nov 2014 9:38 pm
Operator : 644
Sample : INSTBLK
Misc : water IS/SURR14I25028
ALS Vial : 16 Sample Multiplier: 1
InstName : VOCMS7

Quant Time: Nov 25 02:01:32 2014
Quant Method : C:\msdchem\1\methods\V807K24N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS07
QLast Update : Mon Oct 20 13:22:28 2014
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
36) 1,1-Dichloropropene	0.000		0	N.D.	
37) 2,2,4-TRIMETHYLPENTANE	4.256	57	3437	N.D.	
38) HEPTANE	4.292	43	1454	N.D.	
39) BENZENE	4.353	78	1642	N.D.	
40) 1,2-DICHLOROETHANE	0.000		0	N.D.	
42) TRICHLOROETHENE	0.000		0	N.D.	
43) 1,2-DICHLOROPROPANE	5.047	62	5902	1.5356871 ppb #	2
44) DIBROMOMETHANE	0.000		0	N.D.	
45) BROMODICHLOROMETHANE	5.022	83	520	N.D.	
47) 2-CHLOROETHYL VINYL ETHER	0.000		0	N.D.	
48) CIS-1,3-DICHLOROPROPENE	0.000		0	N.D.	
49) 4-METHYL-2-PENTANONE (...	5.758	58	1550	0.7423101 ppb #	42
51) TOLUENE	5.552	91	4619	N.D.	
52) TRANS-1,3-DICHLOROPROPENE	0.000		0	N.D.	
54) 1,1,2-TRICHLOROETHANE	0.000		0	N.D.	
55) TETRACHLOROETHENE	0.000		0	N.D.	
56) 1,3-Dichloropropane	6.105	76	1313	N.D.	
57) 2-HEXANONE	6.306	58	3151	1.4124138 ppb	83
58) CHLORODIBROMOMETHANE	0.000		0	N.D.	
59) 1,2-DIBROMOETHANE	6.215	107	610	N.D.	
60) CHLOROBENZENE	6.555	112	2510	N.D.	
61) 1,1,1,2-TETRACHLOROETHANE	0.000		0	N.D.	
62) ETHYLBENZENE	6.555	106	1381	N.D.	
63) M&P-XYLENE	6.653	106	4634	0.4693856 ppb	98
64) O-XYLENE	6.957	106	2003	N.D.	
65) STYRENE	6.993	104	3414	N.D.	
66) Bromoform	0.000		0	N.D.	
67) Isopropylbenzene	7.176	105	5388	N.D.	
69) Bromobenzene	7.486	77	3815	0.3735366 ppb	92
70) 1,1,2,2-TETRACHLOROETHANE	7.529	83	1640	N.D.	
71) 1,2,3-TRICHLOROPROPANE	0.000		0	N.D.	
72) TRANS-1,4-DICHLORO-2-B...	0.000		0	N.D.	
73) n-Propylbenzene	7.480	91	8402	N.D.	
74) 4-ETHYLTOLUENE	7.559	105	7877	0.3276646 ppb	93
75) 2-Chlorotoluene	7.614	126	1589	N.D.	
76) 4-Chlorotoluene	7.742	91	6073	0.3547144 ppb #	89
77) 1,3,5-Trimethylbenzene	7.620	105	5528	N.D.	
78) tert-Butylbenzene	7.869	119	5075	0.3067737 ppb	88
79) 1,2,4-Trimethylbenzene	7.918	105	8360	0.4205695 ppb	96
80) sec-Butylbenzene	8.003	105	10973	0.4175674 ppb	99
81) 1,3-DICHLOROBENZENE	8.198	146	5168	0.4878488 ppb	90
82) p-Isopropyltoluene	8.107	119	9731	0.4611303 ppb	97
83) DICYCLOPENTADIENE	8.113	66	6562	N.D.	
85) 1,4-DICHLOROBENZENE	8.259	146	5552	0.5131076 ppb #	1
86) 1,2,3-TRIMETHYLBENZENE	8.265	105	8784	0.4395602 ppb	99
87) 1,2-DICHLOROBENZENE	8.599	146	5048	0.4942168 ppb	93
88) n-Butylbenzene	8.441	91	13720	0.6568615 ppb	99
89) 1,2-Dibromo-3-chloropr...	9.238	157	778	0.5939263 ppb	92
90) 1,2,4-Trichlorobenzene	9.798	180	7636	1.1244943 ppb	97
91) HEXACHLORO-1,3-BUTADIENE	9.755	225	3983	1.0850021 ppb	98
92) Naphthalene	10.072	128	27390	1.4211311 ppb	99
93) 1,2,3-Trichlorobenzene	10.224	180	7805	1.2453411 ppb	98
94) 1-Methylnaphthalene	10.887	142	30688	3.3609358 ppb	98
95) 2-Methylnaphthalene	11.009	142	26801	3.5237661 ppb	94

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\112414\
Data File : 1124 16.D
Acq On : 24 Nov 2014 9:38 pm
Operator : 644
Sample : INSTBLK
Misc : water IS/SURR14I25028
ALS Vial : 16 Sample Multiplier: 1
InstName : VOCMS7

Quant Time: Nov 25 02:01:32 2014
Quant Method : C:\msdchem\1\methods\V807K24N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS07
QLast Update : Mon Oct 20 13:22:28 2014
Response via : Initial Calibration

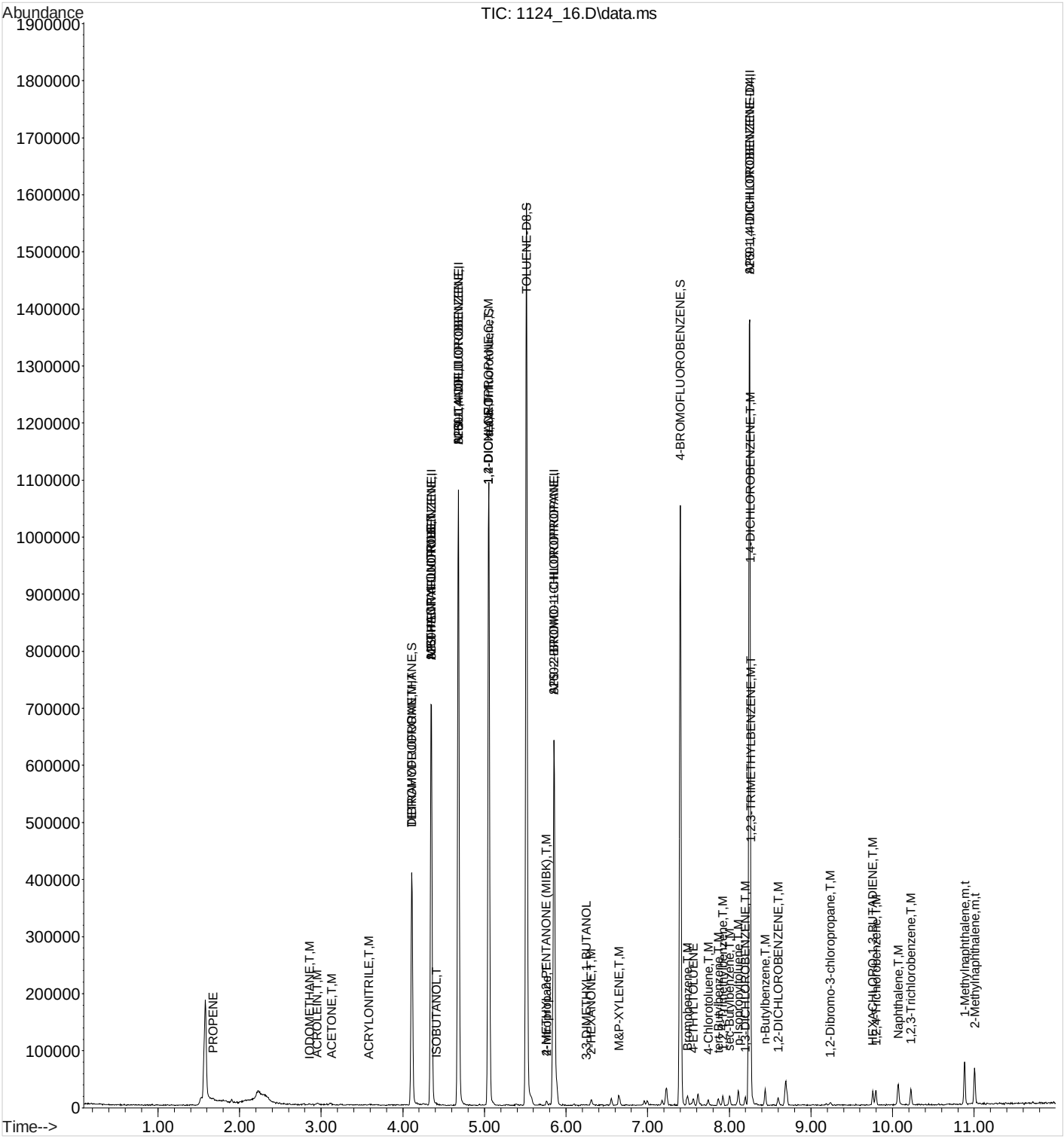
	Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
97)	ETHANOL	0.000		0	N.D.	
98)	Bromoethane	0.000		0	N.D.	
99)	2-PROPANOL	0.000		0	N.D.	
100)	Methyl Acetate	3.246	43	715	N.D.	
101)	ACETONITRILE	0.000		0	N.D.	
102)	ALLYL CHLORIDE	0.000		0	N.D.	
103)	tert-BUTYL ALCOHOL	0.000		0	N.D.	
104)	chloroprene	3.587	53	893	N.D.	
105)	ETHYL TERT-BUTYL ETHER	0.000		0	N.D.	
106)	PROPIONITRILE	0.000		0	N.D.	
107)	Ethyl Acetate	4.098	43	533	N.D.	
108)	METHACRYLONITRILE	4.347	67	859	0.4528176 ppb #	56
109)	Cyclohexane	0.000		0	N.D.	
110)	tert-butyl formate	0.000		0	N.D.	
111)	ISOBUTANOL	4.408	43	815	2.8712679 ppb #	72
112)	t-Amyl Alcohol	0.000		0	N.D.	
113)	TERT-AMYL METHYL ETHER	0.000		0	N.D.	
115)	N-BUTANOL	4.682	56	12318	68.5712944 ppb #	33
116)	Methyl Cyclohexane	4.682	83	7172	N.D.	
117)	2-nitropropane	5.764	43	4832	3.7386227 ppb #	41
118)	METHYL METHACRYLATE	5.034	41	836	N.D.	
119)	1,4-DIOXANE	5.047	88	3633	60.7562720 ppb #	38
120)	n-octane	0.000		0	N.D.	
121)	3,3-DIMETHYL-1-BUTANOL	6.251	57	797	1.5146405 ppb #	32
123)	ETHYL METHACRYLATE	0.000		0	N.D.	
124)	CIS-1,4-DICHLORO-2-BUTENE	0.000		0	N.D.	
125)	Cyclohexanone	7.705	55	512	No Calib #	
126)	PENTACHLOROETHANE	0.000		0	N.D.	
127)	Hexachloroethane	0.000		0	N.D.	

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\112414\
Data File : 1124 16.D
Acq On : 24 Nov 2014 9:38 pm
Operator : 644
Sample : INSTBLK
Misc : water IS/SURR14I25028
ALS Vial : 16 Sample Multiplier: 1
InstName : VOCMS7

Quant Time: Nov 25 02:01:32 2014
Quant Method : C:\msdchem\1\methods\V807K24N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS07
QLast Update : Mon Oct 20 13:22:28 2014
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\112414\
Data File : 1124 17.D
Acq On : 24 Nov 2014 9:57 pm
Operator : 644
Sample : INSTBLK
Misc : water IS/SURR14I25028
ALS Vial : 17 Sample Multiplier: 1
InstName : VOCMS7

Quant Time: Nov 25 02:01:37 2014
Quant Method : C:\msdchem\1\methods\V807K24N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS07
QLast Update : Mon Oct 20 13:22:28 2014
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 8260-PENTAFLUOROBENZENE	4.353	168	398756	40.0000000 ppb	0.00
41) 8260-1,4-DIFLUOROBENZENE	4.682	114	723231	40.0000000 ppb	0.00
53) 8260-2-BROMO-1-CHLOROP...	5.850	79	120567	40.0000000 ppb	0.00
84) 8260-1,4-DICHLOROBENZE...	8.253	152	339572	40.0000000 ppb	0.00
96) AP9-PENTAFLUOROBENZENE	4.353	168	398756	40.0000000 ppb	0.00
114) AP9-1,4-DIFLUOROBENZENE	4.682	114	723231	40.0000000 ppb	0.00
122) AP9-2-BROMO-1-CHLOROPR...	5.850	79	120567	40.0000000 ppb	# 0.00
128) AP9-1,4-DICHLOROBENZEN...	8.253	152	339572	40.0000000 ppb	0.00
System Monitoring Compounds					
33) DIBROMOFLUOROMETHANE	4.110	111	210385	42.3972333 ppb	0.00
Spiked Amount 40.000	Range 78 - 121		Recovery = 105.99%		
46) a,a,a-Trifluorotoluene	5.053	146	400669	42.4191057 ppb	0.00
Spiked Amount 40.000	Range 85 - 114		Recovery = 106.05%		
50) TOLUENE-D8	5.515	98	886047	40.8399000 ppb	0.00
Spiked Amount 40.000	Range 89 - 111		Recovery = 102.10%		
68) 4-BROMOFLUOROBENZENE	7.401	95	343836	41.6003219 ppb	0.00
Spiked Amount 40.000	Range 71 - 126		Recovery = 104.00%		
Target Compounds					Qvalue
2) TPH (GC/MS) LOW FRACTION	4.406	TIC -3475068		No Calib	
3) PROPENE	1.670	41	1214	1.4488216 ppb	# 60
4) DICHLORODIFLUOROMETHANE	0.000		0	N.D.	
5) CHLOROMETHANE	0.000		0	N.D.	
6) VINYL CHLORIDE	0.000		0	N.D.	
7) 1,3-BUTADIENE	1.980	39	614	N.D.	
8) BROMOMETHANE	2.218	94	998	0.3174232 ppb	# 61
9) CHLOROETHANE	0.000		0	N.D.	
10) TRICHLOROFLUOROMETHANE	0.000		0	N.D.	
11) DICHLOROFLUOROMETHANE	0.000		0	N.D.	
12) ETHYL ETHER	0.000		0	N.D.	
13) ACROLEIN	2.960	56	963	1.2274404 ppb	# 14
14) 1,1-DICHLOROETHENE	0.000		0	N.D.	
15) 1,1,2-TRICHLOROTRIFLUO...	0.000		0	N.D.	
16) ACETONE	3.124	43	1399	1.0297500 ppb	# 40
17) IODOMETHANE	2.863	142	1659	0.3211600 ppb	# 46
18) CARBON DISULFIDE	2.790	76	2312	N.D.	
19) METHYLENE CHLORIDE	3.106	84	587	N.D.	
20) ACRYLONITRILE	0.000		0	N.D.	
21) n-Hexane	0.000		0	N.D.	
22) TRANS-1,2-DICHLOROETHENE	0.000		0	N.D.	
23) METHYL TERT-BUTYL ETHER	0.000		0	N.D.	
24) 1,1-DICHLOROETHANE	0.000		0	N.D.	
25) VINYL ACETATE	3.672	43	2042	N.D.	
26) DI-ISOPROPYL ETHER	0.000		0	N.D.	
27) 2,2-Dichloropropane	0.000		0	N.D.	
28) CIS-1,2-DICHLOROETHENE	0.000		0	N.D.	
29) 2-BUTANONE (MEK)	0.000		0	N.D.	
30) BROMOCHLOROMETHANE	0.000		0	N.D.	
31) TETRAHYDROFURAN	4.097	42	571	0.3381681 ppb	# 46
32) CHLOROFORM	0.000		0	N.D.	
34) 1,1,1-TRICHLOROETHANE	0.000		0	N.D.	
35) CARBON TETRACHLORIDE	0.000		0	N.D.	

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\112414\
Data File : 1124 17.D
Acq On : 24 Nov 2014 9:57 pm
Operator : 644
Sample : INSTBLK
Misc : water IS/SURR14I25028
ALS Vial : 17 Sample Multiplier: 1
InstName : VOCMS7

Quant Time: Nov 25 02:01:37 2014
Quant Method : C:\msdchem\1\methods\V807K24N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS07
QLast Update : Mon Oct 20 13:22:28 2014
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
36) 1,1-Dichloropropene	0.000		0	N.D.	
37) 2,2,4-TRIMETHYLPENTANE	4.250	57	1901	N.D.	
38) HEPTANE	4.256	43	946	N.D.	
39) BENZENE	0.000		0	N.D.	
40) 1,2-DICHLOROETHANE	0.000		0	N.D.	
42) TRICHLOROETHENE	0.000		0	N.D.	
43) 1,2-DICHLOROPROPANE	5.047	62	6378	1.6389952 ppb #	31
44) DIBROMOMETHANE	0.000		0	N.D.	
45) BROMODICHLOROMETHANE	0.000		0	N.D.	
47) 2-CHLOROETHYL VINYL ETHER	0.000		0	N.D.	
48) CIS-1,3-DICHLOROPROPENE	0.000		0	N.D.	
49) 4-METHYL-2-PENTANONE (...	5.764	58	931	0.4403449 ppb	98
51) TOLUENE	5.545	91	3646	N.D.	
52) TRANS-1,3-DICHLOROPROPENE	0.000		0	N.D.	
54) 1,1,2-TRICHLOROETHANE	0.000		0	N.D.	
55) TETRACHLOROETHENE	0.000		0	N.D.	
56) 1,3-Dichloropropane	6.099	76	802	N.D.	
57) 2-HEXANONE	6.312	58	1662	0.7350503 ppb #	19
58) CHLORODIBROMOMETHANE	0.000		0	N.D.	
59) 1,2-DIBROMOETHANE	0.000		0	N.D.	
60) CHLOROBENZENE	6.555	112	1154	N.D.	
61) 1,1,1,2-TETRACHLOROETHANE	0.000		0	N.D.	
62) ETHYLBENZENE	6.549	106	710	N.D.	
63) M&P-XYLENE	6.653	106	2244	N.D.	
64) O-XYLENE	6.957	106	952	N.D.	
65) STYRENE	6.993	104	1505	N.D.	
66) Bromoform	0.000		0	N.D.	
67) Isopropylbenzene	7.176	105	2201	N.D.	
69) Bromobenzene	7.492	77	1761	N.D.	
70) 1,1,2,2-TETRACHLOROETHANE	7.529	83	1018	N.D.	
71) 1,2,3-TRICHLOROPROPANE	0.000		0	N.D.	
72) TRANS-1,4-DICHLORO-2-B...	0.000		0	N.D.	
73) n-Propylbenzene	7.480	91	3897	N.D.	
74) 4-ETHYLTOLUENE	7.559	105	4208	N.D.	
75) 2-Chlorotoluene	7.620	126	529	N.D.	
76) 4-Chlorotoluene	7.735	91	2800	N.D.	
77) 1,3,5-Trimethylbenzene	7.620	105	2061	N.D.	
78) tert-Butylbenzene	7.869	119	1918	N.D.	
79) 1,2,4-Trimethylbenzene	7.918	105	3892	N.D.	
80) sec-Butylbenzene	8.003	105	3451	N.D.	
81) 1,3-DICHLOROBENZENE	8.192	146	2013	N.D.	
82) p-Isopropyltoluene	8.107	119	4034	N.D.	
83) DICYCLOPENTADIENE	8.113	66	1997	N.D.	
85) 1,4-DICHLOROBENZENE	8.265	146	2392	N.D.	
86) 1,2,3-TRIMETHYLBENZENE	8.265	105	3622	N.D.	
87) 1,2-DICHLOROBENZENE	8.599	146	1755	N.D.	
88) n-Butylbenzene	8.441	91	5274	N.D.	
89) 1,2-Dibromo-3-chloropr...	0.000		0	N.D.	
90) 1,2,4-Trichlorobenzene	9.792	180	2936	0.4376841 ppb #	92
91) HEXACHLORO-1,3-BUTADIENE	9.755	225	1377	0.3797236 ppb	97
92) Naphthalene	10.072	128	11434	0.6005562 ppb	98
93) 1,2,3-Trichlorobenzene	10.224	180	2793	0.4511279 ppb	93
94) 1-Methylnaphthalene	10.887	142	11372	1.2607874 ppb	99
95) 2-Methylnaphthalene	11.002	142	9526	1.2678854 ppb	97

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\112414\
Data File : 1124 17.D
Acq On : 24 Nov 2014 9:57 pm
Operator : 644
Sample : INSTBLK
Misc : water IS/SURR14I25028
ALS Vial : 17 Sample Multiplier: 1
InstName : VOCMS7

Quant Time: Nov 25 02:01:37 2014
Quant Method : C:\msdchem\1\methods\V807K24N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS07
QLast Update : Mon Oct 20 13:22:28 2014
Response via : Initial Calibration

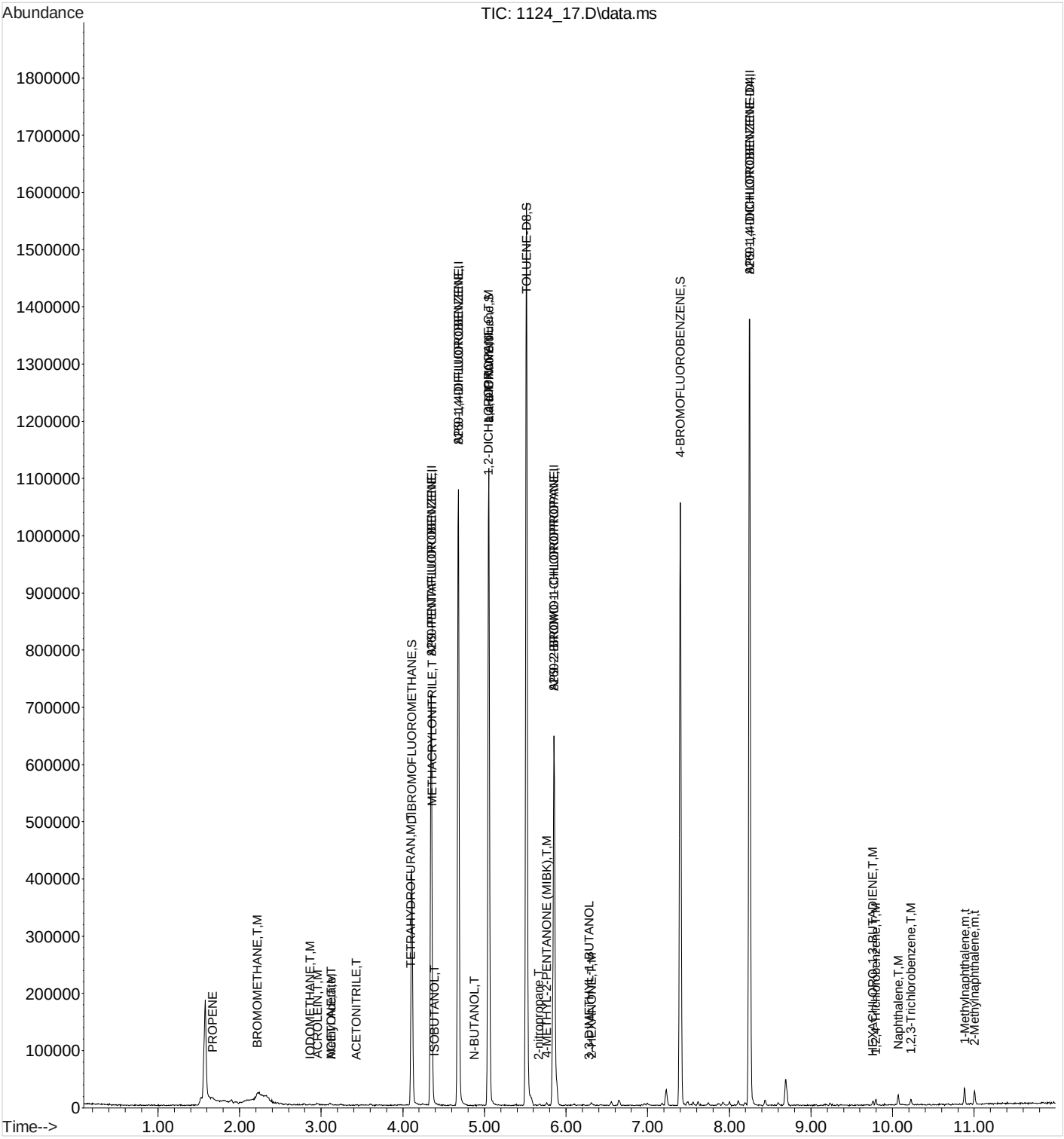
	Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
97)	ETHANOL	0.000		0	N.D.	
98)	Bromoethane	0.000		0	N.D.	
99)	2-PROPANOL	0.000		0	N.D.	
100)	Methyl Acetate	3.124	43	1399	0.4138427 ppb #	54
101)	ACETONITRILE	3.428	41	778	1.1094532 ppb #	35
102)	ALLYL CHLORIDE	0.000		0	N.D.	
103)	tert-BUTYL ALCOHOL	0.000		0	N.D.	
104)	chloroprene	0.000		0	N.D.	
105)	ETHYL TERT-BUTYL ETHER	0.000		0	N.D.	
106)	PROPIONITRILE	0.000		0	N.D.	
107)	Ethyl Acetate	0.000		0	N.D.	
108)	METHACRYLONITRILE	4.359	67	1307	0.6804950 ppb #	24
109)	Cyclohexane	0.000		0	N.D.	
110)	tert-butyl formate	0.000		0	N.D.	
111)	ISOBUTANOL	4.390	43	742	2.5818989 ppb #	72
112)	t-Amyl Alcohol	0.000		0	N.D.	
113)	TERT-AMYL METHYL ETHER	0.000		0	N.D.	
115)	N-BUTANOL	4.876	56	509	2.7983985 ppb #	16
116)	Methyl Cyclohexane	4.682	83	7928	N.D.	
117)	2-nitropropane	5.661	43	923	0.7053035 ppb #	1
118)	METHYL METHACRYLATE	5.071	41	566	N.D.	
119)	1,4-DIOXANE	5.053	88	3499	57.7908783 ppb #	38
120)	n-octane	0.000		0	N.D.	
121)	3,3-DIMETHYL-1-BUTANOL	6.282	57	639	1.1993384 ppb #	33
123)	ETHYL METHACRYLATE	0.000		0	N.D.	
124)	CIS-1,4-DICHLORO-2-BUTENE	0.000		0	N.D.	
125)	Cyclohexanone	7.699	55	630	No Calib #	
126)	PENTACHLOROETHANE	8.100	117	556	N.D.	
127)	Hexachloroethane	0.000		0	N.D.	

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\112414\
Data File : 1124 17.D
Acq On : 24 Nov 2014 9:57 pm
Operator : 644
Sample : INSTBLK
Misc : water IS/SURR14I25028
ALS Vial : 17 Sample Multiplier: 1
InstName : VOCMS7

Quant Time: Nov 25 02:01:37 2014
Quant Method : C:\msdchem\1\methods\V807K24N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS07
QLast Update : Mon Oct 20 13:22:28 2014
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\112414\
Data File : 1124 17.D
Acq On : 24 Nov 2014 9:57 pm
Operator : 644
Sample : INSTBLK
Misc : water IS/SURR14I25028
ALS Vial : 17 Sample Multiplier: 1
InstName : VOCMS7

Quant Time: Nov 25 02:01:37 2014
Quant Method : C:\msdchem\1\methods\V807K24N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS07
QLast Update : Mon Oct 20 13:22:28 2014
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 8260-PENTAFLUOROBENZENE	4.353	168	398756	40.0000000 ppb	0.00
41) 8260-1,4-DIFLUOROBENZENE	4.682	114	723231	40.0000000 ppb	0.00
53) 8260-2-BROMO-1-CHLOROP...	5.850	79	120567	40.0000000 ppb	0.00
84) 8260-1,4-DICHLOROBENZE...	8.253	152	339572	40.0000000 ppb	0.00
96) AP9-PENTAFLUOROBENZENE	4.353	168	398756	40.0000000 ppb	0.00
114) AP9-1,4-DIFLUOROBENZENE	4.682	114	723231	40.0000000 ppb	0.00
122) AP9-2-BROMO-1-CHLOROPR...	5.850	79	120567	40.0000000 ppb	# 0.00
128) AP9-1,4-DICHLOROBENZEN...	8.253	152	339572	40.0000000 ppb	0.00
System Monitoring Compounds					
33) DIBROMOFLUOROMETHANE	4.110	111	210385	42.3972333 ppb	0.00
Spiked Amount 40.000	Range 78 - 121		Recovery = 105.99%		
46) a,a,a-Trifluorotoluene	5.053	146	400669	42.4191057 ppb	0.00
Spiked Amount 40.000	Range 85 - 114		Recovery = 106.05%		
50) TOLUENE-D8	5.515	98	886047	40.8399000 ppb	0.00
Spiked Amount 40.000	Range 89 - 111		Recovery = 102.10%		
68) 4-BROMOFLUOROBENZENE	7.401	95	343836	41.6003219 ppb	0.00
Spiked Amount 40.000	Range 71 - 126		Recovery = 104.00%		
Target Compounds					Qvalue
2) TPH (GC/MS) LOW FRACTION	4.406	TIC	-3475068	No Calib	
3) PROPENE	1.670	41	1214	1.4488216 ppb #	60
4) DICHLORODIFLUOROMETHANE	0.000		0	N.D.	
5) CHLOROMETHANE	0.000		0	N.D.	
6) VINYL CHLORIDE	0.000		0	N.D.	
7) 1,3-BUTADIENE	1.980	39	614	N.D.	
8) BROMOMETHANE	2.218	94	998	0.3174232 ppb #	61
9) CHLOROETHANE	0.000		0	N.D.	
10) TRICHLOROFLUOROMETHANE	0.000		0	N.D.	
11) DICHLOROFLUOROMETHANE	0.000		0	N.D.	
12) ETHYL ETHER	0.000		0	N.D.	
13) ACROLEIN	2.960	56	963	1.2274404 ppb #	14
14) 1,1-DICHLOROETHENE	0.000		0	N.D.	
15) 1,1,2-TRICHLOROTRIFLUO...	0.000		0	N.D.	
16) ACETONE	3.124	43	1399	1.0297500 ppb #	40
17) IODOMETHANE	2.863	142	1659	0.3211600 ppb #	46
18) CARBON DISULFIDE	2.790	76	2312	N.D.	
19) METHYLENE CHLORIDE	3.106	84	587	N.D.	
20) ACRYLONITRILE	0.000		0	N.D.	
21) n-Hexane	0.000		0	N.D.	
22) TRANS-1,2-DICHLOROETHENE	0.000		0	N.D.	
23) METHYL TERT-BUTYL ETHER	0.000		0	N.D.	
24) 1,1-DICHLOROETHANE	0.000		0	N.D.	
25) VINYL ACETATE	3.672	43	2042	N.D.	
26) DI-ISOPROPYL ETHER	0.000		0	N.D.	
27) 2,2-Dichloropropane	0.000		0	N.D.	
28) CIS-1,2-DICHLOROETHENE	0.000		0	N.D.	
29) 2-BUTANONE (MEK)	0.000		0	N.D.	
30) BROMOCHLOROMETHANE	0.000		0	N.D.	
31) TETRAHYDROFURAN	4.097	42	571	0.3381681 ppb #	46
32) CHLOROFORM	0.000		0	N.D.	
34) 1,1,1-TRICHLOROETHANE	0.000		0	N.D.	
35) CARBON TETRACHLORIDE	0.000		0	N.D.	

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\112414\
Data File : 1124 17.D
Acq On : 24 Nov 2014 9:57 pm
Operator : 644
Sample : INSTBLK
Misc : water IS/SURR14I25028
ALS Vial : 17 Sample Multiplier: 1
InstName : VOCMS7

Quant Time: Nov 25 02:01:37 2014
Quant Method : C:\msdchem\1\methods\V807K24N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS07
QLast Update : Mon Oct 20 13:22:28 2014
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
36) 1,1-Dichloropropene	0.000		0	N.D.	
37) 2,2,4-TRIMETHYLPENTANE	4.250	57	1901	N.D.	
38) HEPTANE	4.256	43	946	N.D.	
39) BENZENE	0.000		0	N.D.	
40) 1,2-DICHLOROETHANE	0.000		0	N.D.	
42) TRICHLOROETHENE	0.000		0	N.D.	
43) 1,2-DICHLOROPROPANE	5.047	62	6378	1.6389952 ppb #	31
44) DIBROMOMETHANE	0.000		0	N.D.	
45) BROMODICHLOROMETHANE	0.000		0	N.D.	
47) 2-CHLOROETHYL VINYL ETHER	0.000		0	N.D.	
48) CIS-1,3-DICHLOROPROPENE	0.000		0	N.D.	
49) 4-METHYL-2-PENTANONE (...	5.764	58	931	0.4403449 ppb	98
51) TOLUENE	5.545	91	3646	N.D.	
52) TRANS-1,3-DICHLOROPROPENE	0.000		0	N.D.	
54) 1,1,2-TRICHLOROETHANE	0.000		0	N.D.	
55) TETRACHLOROETHENE	0.000		0	N.D.	
56) 1,3-Dichloropropane	6.099	76	802	N.D.	
57) 2-HEXANONE	6.312	58	1662	0.7350503 ppb #	19
58) CHLORODIBROMOMETHANE	0.000		0	N.D.	
59) 1,2-DIBROMOETHANE	0.000		0	N.D.	
60) CHLOROBENZENE	6.555	112	1154	N.D.	
61) 1,1,1,2-TETRACHLOROETHANE	0.000		0	N.D.	
62) ETHYLBENZENE	6.549	106	710	N.D.	
63) M&P-XYLENE	6.653	106	2244	N.D.	
64) O-XYLENE	6.957	106	952	N.D.	
65) STYRENE	6.993	104	1505	N.D.	
66) Bromoform	0.000		0	N.D.	
67) Isopropylbenzene	7.176	105	2201	N.D.	
69) Bromobenzene	7.492	77	1761	N.D.	
70) 1,1,2,2-TETRACHLOROETHANE	7.529	83	1018	N.D.	
71) 1,2,3-TRICHLOROPROPANE	0.000		0	N.D.	
72) TRANS-1,4-DICHLORO-2-B...	0.000		0	N.D.	
73) n-Propylbenzene	7.480	91	3897	N.D.	
74) 4-ETHYLTOLUENE	7.559	105	4208	N.D.	
75) 2-Chlorotoluene	7.620	126	529	N.D.	
76) 4-Chlorotoluene	7.735	91	2800	N.D.	
77) 1,3,5-Trimethylbenzene	7.620	105	2061	N.D.	
78) tert-Butylbenzene	7.869	119	1918	N.D.	
79) 1,2,4-Trimethylbenzene	7.918	105	3892	N.D.	
80) sec-Butylbenzene	8.003	105	3451	N.D.	
81) 1,3-DICHLOROBENZENE	8.192	146	2013	N.D.	
82) p-Isopropyltoluene	8.107	119	4034	N.D.	
83) DICYCLOPENTADIENE	8.113	66	1997	N.D.	
85) 1,4-DICHLOROBENZENE	8.265	146	2392	N.D.	
86) 1,2,3-TRIMETHYLBENZENE	8.265	105	3622	N.D.	
87) 1,2-DICHLOROBENZENE	8.599	146	1755	N.D.	
88) n-Butylbenzene	8.441	91	5274	N.D.	
89) 1,2-Dibromo-3-chloropr...	0.000		0	N.D.	
90) 1,2,4-Trichlorobenzene	9.792	180	2936	0.4376841 ppb #	92
91) HEXACHLORO-1,3-BUTADIENE	9.755	225	1377	0.3797236 ppb	97
92) Naphthalene	10.072	128	11434	0.6005562 ppb	98
93) 1,2,3-Trichlorobenzene	10.224	180	2793	0.4511279 ppb	93
94) 1-Methylnaphthalene	10.887	142	11372	1.2607874 ppb	99
95) 2-Methylnaphthalene	11.002	142	9526	1.2678854 ppb	97

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\112414\
Data File : 1124 17.D
Acq On : 24 Nov 2014 9:57 pm
Operator : 644
Sample : INSTBLK
Misc : water IS/SURR14I25028
ALS Vial : 17 Sample Multiplier: 1
InstName : VOCMS7

Quant Time: Nov 25 02:01:37 2014
Quant Method : C:\msdchem\1\methods\V807K24N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS07
QLast Update : Mon Oct 20 13:22:28 2014
Response via : Initial Calibration

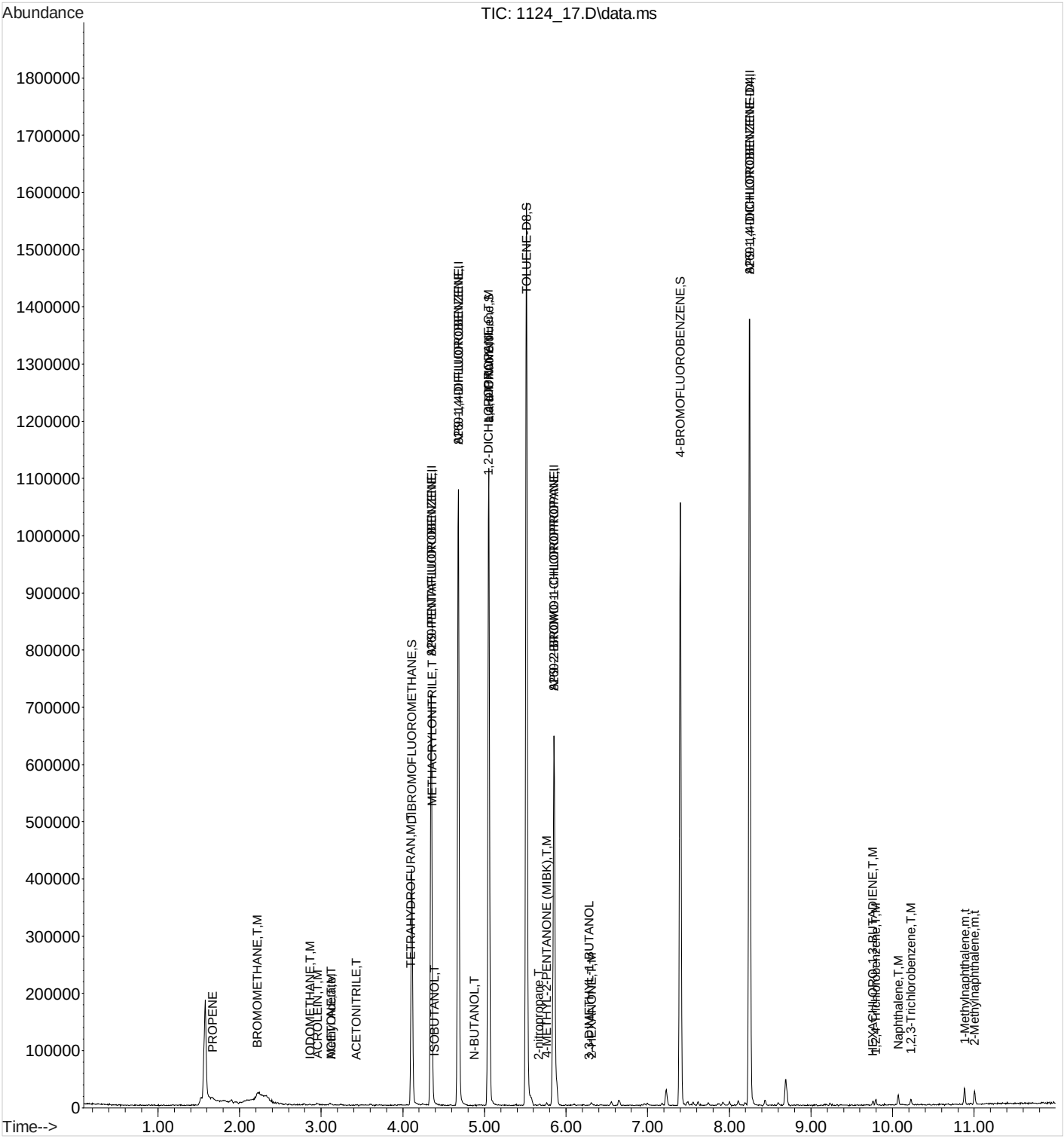
	Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
97)	ETHANOL	0.000		0	N.D.	
98)	Bromoethane	0.000		0	N.D.	
99)	2-PROPANOL	0.000		0	N.D.	
100)	Methyl Acetate	3.124	43	1399	0.4138427 ppb #	54
101)	ACETONITRILE	3.428	41	778	1.1094532 ppb #	35
102)	ALLYL CHLORIDE	0.000		0	N.D.	
103)	tert-BUTYL ALCOHOL	0.000		0	N.D.	
104)	chloroprene	0.000		0	N.D.	
105)	ETHYL TERT-BUTYL ETHER	0.000		0	N.D.	
106)	PROPIONITRILE	0.000		0	N.D.	
107)	Ethyl Acetate	0.000		0	N.D.	
108)	METHACRYLONITRILE	4.359	67	1307	0.6804950 ppb #	24
109)	Cyclohexane	0.000		0	N.D.	
110)	tert-butyl formate	0.000		0	N.D.	
111)	ISOBUTANOL	4.390	43	742	2.5818989 ppb #	72
112)	t-Amyl Alcohol	0.000		0	N.D.	
113)	TERT-AMYL METHYL ETHER	0.000		0	N.D.	
115)	N-BUTANOL	4.876	56	509	2.7983985 ppb #	16
116)	Methyl Cyclohexane	4.682	83	7928	N.D.	
117)	2-nitropropane	5.661	43	923	0.7053035 ppb #	1
118)	METHYL METHACRYLATE	5.071	41	566	N.D.	
119)	1,4-DIOXANE	5.053	88	3499	57.7908783 ppb #	38
120)	n-octane	0.000		0	N.D.	
121)	3,3-DIMETHYL-1-BUTANOL	6.282	57	639	1.1993384 ppb #	33
123)	ETHYL METHACRYLATE	0.000		0	N.D.	
124)	CIS-1,4-DICHLORO-2-BUTENE	0.000		0	N.D.	
125)	Cyclohexanone	7.699	55	630	No Calib #	
126)	PENTACHLOROETHANE	8.100	117	556	N.D.	
127)	Hexachloroethane	0.000		0	N.D.	

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\112414\
Data File : 1124 17.D
Acq On : 24 Nov 2014 9:57 pm
Operator : 644
Sample : INSTBLK
Misc : water IS/SURR14I25028
ALS Vial : 17 Sample Multiplier: 1
InstName : VOCMS7

Quant Time: Nov 25 02:01:37 2014
Quant Method : C:\msdchem\1\methods\V807K24N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS07
QLast Update : Mon Oct 20 13:22:28 2014
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\112414\
Data File : 1124 27.D
Acq On : 25 Nov 2014 1:10 am
Operator : 644
Sample : INSTBLK
Misc : water IS/SURR14I25028
ALS Vial : 27 Sample Multiplier: 1
InstName : VOCMS7

Quant Time: Nov 25 02:02:27 2014
Quant Method : C:\msdchem\1\methods\V807K24N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS07
QLast Update : Mon Oct 20 13:22:28 2014
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 8260-PENTAFLUOROBENZENE	4.353	168	414798	40.0000000 ppb	0.00
41) 8260-1,4-DIFLUOROBENZENE	4.682	114	733252	40.0000000 ppb	0.00
53) 8260-2-BROMO-1-CHLOROP...	5.850	79	117998	40.0000000 ppb	0.00
84) 8260-1,4-DICHLOROBENZE...	8.253	152	334545	40.0000000 ppb	0.00
96) AP9-PENTAFLUOROBENZENE	4.353	168	414798	40.0000000 ppb	0.00
114) AP9-1,4-DIFLUOROBENZENE	4.682	114	733252	40.0000000 ppb	0.00
122) AP9-2-BROMO-1-CHLOROPR...	5.850	79	117998	40.0000000 ppb	# 0.00
128) AP9-1,4-DICHLOROBENZEN...	8.253	152	334545	40.0000000 ppb	0.00
System Monitoring Compounds					
33) DIBROMOFLUOROMETHANE	4.110	111	213182	41.2994106 ppb	0.00
Spiked Amount 40.000	Range 78 - 121		Recovery = 103.25%		
46) a,a,a-Trifluorotoluene	5.053	146	394805	41.2270431 ppb	0.00
Spiked Amount 40.000	Range 85 - 114		Recovery = 103.07%		
50) TOLUENE-D8	5.515	98	887069	40.3282234 ppb	0.00
Spiked Amount 40.000	Range 89 - 111		Recovery = 100.82%		
68) 4-BROMOFLUOROBENZENE	7.401	95	334180	41.3123223 ppb	0.00
Spiked Amount 40.000	Range 71 - 126		Recovery = 103.28%		
Target Compounds					Qvalue
2) TPH (GC/MS) LOW FRACTION	4.406	TIC	-3487267	No Calib	
3) PROPENE	1.670	41	1226	1.4065568 ppb	# 58
4) DICHLORODIFLUOROMETHANE	0.000		0	N.D.	
5) CHLOROMETHANE	0.000		0	N.D.	
6) VINYL CHLORIDE	0.000		0	N.D.	
7) 1,3-BUTADIENE	1.962	39	1143	N.D.	
8) BROMOMETHANE	2.236	94	819	N.D.	
9) CHLOROETHANE	0.000		0	N.D.	
10) TRICHLOROFLUOROMETHANE	0.000		0	N.D.	
11) DICHLOROFLUOROMETHANE	0.000		0	N.D.	
12) ETHYL ETHER	0.000		0	N.D.	
13) ACROLEIN	0.000		0	N.D.	
14) 1,1-DICHLOROETHENE	0.000		0	N.D.	
15) 1,1,2-TRICHLOROTRIFLUO...	0.000		0	N.D.	
16) ACETONE	3.130	43	1650	1.1675315 ppb	# 40
17) IODOMETHANE	2.863	142	1505	N.D.	
18) CARBON DISULFIDE	2.790	76	1829	N.D.	
19) METHYLENE CHLORIDE	3.112	84	527	N.D.	
20) ACRYLONITRILE	0.000		0	N.D.	
21) n-Hexane	0.000		0	N.D.	
22) TRANS-1,2-DICHLOROETHENE	0.000		0	N.D.	
23) METHYL TERT-BUTYL ETHER	0.000		0	N.D.	
24) 1,1-DICHLOROETHANE	0.000		0	N.D.	
25) VINYL ACETATE	3.720	43	776	N.D.	
26) DI-ISOPROPYL ETHER	0.000		0	N.D.	
27) 2,2-Dichloropropane	0.000		0	N.D.	
28) CIS-1,2-DICHLOROETHENE	0.000		0	N.D.	
29) 2-BUTANONE (MEK)	0.000		0	N.D.	
30) BROMOCHLOROMETHANE	0.000		0	N.D.	
31) TETRAHYDROFURAN	0.000		0	N.D.	
32) CHLOROFORM	0.000		0	N.D.	
34) 1,1,1-TRICHLOROETHANE	0.000		0	N.D.	
35) CARBON TETRACHLORIDE	0.000		0	N.D.	

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\112414\
Data File : 1124 27.D
Acq On : 25 Nov 2014 1:10 am
Operator : 644
Sample : INSTBLK
Misc : water IS/SURR14I25028
ALS Vial : 27 Sample Multiplier: 1
InstName : VOCMS7

Quant Time: Nov 25 02:02:27 2014
Quant Method : C:\msdchem\1\methods\V807K24N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS07
QLast Update : Mon Oct 20 13:22:28 2014
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
36) 1,1-Dichloropropene	0.000		0	N.D.	
37) 2,2,4-TRIMETHYLPENTANE	4.262	57	1843	N.D.	
38) HEPTANE	4.286	43	1425	N.D.	
39) BENZENE	4.353	78	798	N.D.	
40) 1,2-DICHLOROETHANE	0.000		0	N.D.	
42) TRICHLOROETHENE	4.675	130	915	N.D.	
43) 1,2-DICHLOROPROPANE	5.047	62	5841	1.4804855 ppb	# 16
44) DIBROMOMETHANE	0.000		0	N.D.	
45) BROMODICHLOROMETHANE	0.000		0	N.D.	
47) 2-CHLOROETHYL VINYL ETHER	0.000		0	N.D.	
48) CIS-1,3-DICHLOROPROPENE	0.000		0	N.D.	
49) 4-METHYL-2-PENTANONE (...	0.000		0	N.D.	
51) TOLUENE	5.551	91	2911	N.D.	
52) TRANS-1,3-DICHLOROPROPENE	0.000		0	N.D.	
54) 1,1,2-TRICHLOROETHANE	0.000		0	N.D.	
55) TETRACHLOROETHENE	0.000		0	N.D.	
56) 1,3-Dichloropropane	0.000		0	N.D.	
57) 2-HEXANONE	0.000		0	N.D.	
58) CHLORODIBROMOMETHANE	0.000		0	N.D.	
59) 1,2-DIBROMOETHANE	0.000		0	N.D.	
60) CHLOROBENZENE	0.000		0	N.D.	
61) 1,1,1,2-TETRACHLOROETHANE	0.000		0	N.D.	
62) ETHYLBENZENE	0.000		0	N.D.	
63) M&P-XYLENE	6.647	106	1670	N.D.	
64) O-XYLENE	0.000		0	N.D.	
65) STYRENE	0.000		0	N.D.	
66) Bromoform	0.000		0	N.D.	
67) Isopropylbenzene	0.000		0	N.D.	
69) Bromobenzene	7.395	77	2115	N.D.	
70) 1,1,2,2-TETRACHLOROETHANE	0.000		0	N.D.	
71) 1,2,3-TRICHLOROPROPANE	0.000		0	N.D.	
72) TRANS-1,4-DICHLORO-2-B...	0.000		0	N.D.	
73) n-Propylbenzene	7.474	91	1000	N.D.	
74) 4-ETHYLTOLUENE	7.559	105	1773	N.D.	
75) 2-Chlorotoluene	0.000		0	N.D.	
76) 4-Chlorotoluene	0.000		0	N.D.	
77) 1,3,5-Trimethylbenzene	7.620	105	774	N.D.	
78) tert-Butylbenzene	7.894	119	1165	N.D.	
79) 1,2,4-Trimethylbenzene	7.924	105	1495	N.D.	
80) sec-Butylbenzene	0.000		0	N.D.	
81) 1,3-DICHLOROBENZENE	0.000		0	N.D.	
82) p-Isopropyltoluene	8.107	119	653	N.D.	
83) DICYCLOPENTADIENE	0.000		0	N.D.	
85) 1,4-DICHLOROBENZENE	0.000		0	N.D.	
86) 1,2,3-TRIMETHYLBENZENE	8.265	105	935	N.D.	
87) 1,2-DICHLOROBENZENE	0.000		0	N.D.	
88) n-Butylbenzene	8.441	91	909	N.D.	
89) 1,2-Dibromo-3-chloropr...	0.000		0	N.D.	
90) 1,2,4-Trichlorobenzene	0.000		0	N.D.	
91) HEXACHLORO-1,3-BUTADIENE	0.000		0	N.D.	
92) Naphthalene	10.072	128	2474	N.D.	
93) 1,2,3-Trichlorobenzene	0.000		0	N.D.	
94) 1-Methylnaphthalene	10.887	142	1431	N.D.	
95) 2-Methylnaphthalene	11.002	142	1023	N.D.	

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\112414\
Data File : 1124 27.D
Acq On : 25 Nov 2014 1:10 am
Operator : 644
Sample : INSTBLK
Misc : water IS/SURR14I25028
ALS Vial : 27 Sample Multiplier: 1
InstName : VOCMS7

Quant Time: Nov 25 02:02:27 2014
Quant Method : C:\msdchem\1\methods\V807K24N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS07
QLast Update : Mon Oct 20 13:22:28 2014
Response via : Initial Calibration

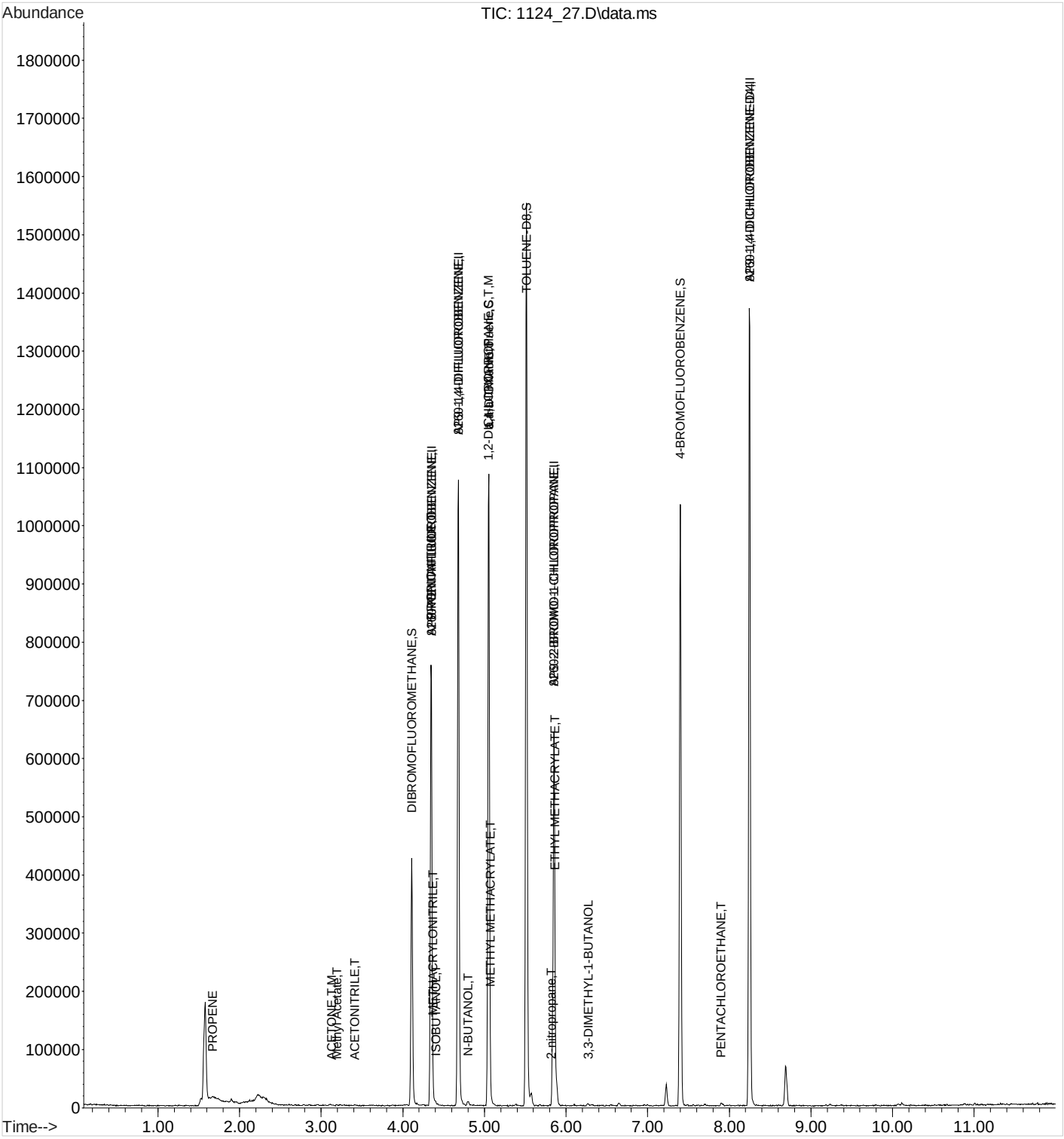
	Compound	R.T.	QIon	Response	Conc Units		Dev(Min)
97)	ETHANOL	0.000		0	N.D.		
98)	Bromoethane	0.000		0	N.D.		
99)	2-PROPANOL	0.000		0	N.D.		
100)	Methyl Acetate	3.191	43	1727	0.4911120 ppb	#	54
101)	ACETONITRILE	3.410	41	2453	3.3627726 ppb	#	50
102)	ALLYL CHLORIDE	0.000		0	N.D.		
103)	tert-BUTYL ALCOHOL	0.000		0	N.D.		
104)	chloroprene	0.000		0	N.D.		
105)	ETHYL TERT-BUTYL ETHER	0.000		0	N.D.		
106)	PROPIONITRILE	4.347	54	1932	2.7254366 ppb	#	1
107)	Ethyl Acetate	4.037	43	1329	N.D.		
108)	METHACRYLONITRILE	4.371	67	5223	2.6142071 ppb	#	93
109)	Cyclohexane	0.000		0	N.D.		
110)	tert-butyl formate	0.000		0	N.D.		
111)	ISOBUTANOL	4.402	43	1286	4.3017668 ppb	#	72
112)	t-Amyl Alcohol	0.000		0	N.D.		
113)	TERT-AMYL METHYL ETHER	0.000		0	N.D.		
115)	N-BUTANOL	4.803	56	4001	21.6962217 ppb	#	65
116)	Methyl Cyclohexane	4.682	83	7366	N.D.		
117)	2-nitropropane	5.819	43	517	0.3896625 ppb	#	17
118)	METHYL METHACRYLATE	5.071	41	2228	0.4907252 ppb	#	1
119)	1,4-DIOXANE	5.053	88	3282	53.4660015 ppb	#	38
120)	n-octane	0.000		0	N.D.		
121)	3,3-DIMETHYL-1-BUTANOL	6.269	57	2738	5.0687177 ppb	#	77
123)	ETHYL METHACRYLATE	5.862	69	2362	0.3634019 ppb	#	1
124)	CIS-1,4-DICHLORO-2-BUTENE	0.000		0	N.D.		
125)	Cyclohexanone	7.699	55	1726	No Calib	#	
126)	PENTACHLOROETHANE	7.894	117	1235	0.3923089 ppb	#	81
127)	Hexachloroethane	0.000		0	N.D.		

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\112414\
Data File : 1124 27.D
Acq On : 25 Nov 2014 1:10 am
Operator : 644
Sample : INSTBLK
Misc : water IS/SURR14I25028
ALS Vial : 27 Sample Multiplier: 1
InstName : VOCMS7

Quant Time: Nov 25 02:02:27 2014
Quant Method : C:\msdchem\1\methods\V807K24N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS07
QLast Update : Mon Oct 20 13:22:28 2014
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\112414\
Data File : 1124 27.D
Acq On : 25 Nov 2014 1:10 am
Operator : 644
Sample : INSTBLK
Misc : water IS/SURR14I25028
ALS Vial : 27 Sample Multiplier: 1
InstName : VOCMS7

Quant Time: Nov 25 02:02:27 2014
Quant Method : C:\msdchem\1\methods\V807K24N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS07
QLast Update : Mon Oct 20 13:22:28 2014
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 8260-PENTAFLUOROBENZENE	4.353	168	414798	40.0000000 ppb	0.00
41) 8260-1,4-DIFLUOROBENZENE	4.682	114	733252	40.0000000 ppb	0.00
53) 8260-2-BROMO-1-CHLOROP...	5.850	79	117998	40.0000000 ppb	0.00
84) 8260-1,4-DICHLOROBENZE...	8.253	152	334545	40.0000000 ppb	0.00
96) AP9-PENTAFLUOROBENZENE	4.353	168	414798	40.0000000 ppb	0.00
114) AP9-1,4-DIFLUOROBENZENE	4.682	114	733252	40.0000000 ppb	0.00
122) AP9-2-BROMO-1-CHLOROPR...	5.850	79	117998	40.0000000 ppb	# 0.00
128) AP9-1,4-DICHLOROBENZEN...	8.253	152	334545	40.0000000 ppb	0.00
System Monitoring Compounds					
33) DIBROMOFLUOROMETHANE	4.110	111	213182	41.2994106 ppb	0.00
Spiked Amount 40.000	Range 78 - 121		Recovery = 103.25%		
46) a,a,a-Trifluorotoluene	5.053	146	394805	41.2270431 ppb	0.00
Spiked Amount 40.000	Range 85 - 114		Recovery = 103.07%		
50) TOLUENE-D8	5.515	98	887069	40.3282234 ppb	0.00
Spiked Amount 40.000	Range 89 - 111		Recovery = 100.82%		
68) 4-BROMOFLUOROBENZENE	7.401	95	334180	41.3123223 ppb	0.00
Spiked Amount 40.000	Range 71 - 126		Recovery = 103.28%		
Target Compounds					Qvalue
2) TPH (GC/MS) LOW FRACTION	4.406	TIC	-3487267	No Calib	
3) PROPENE	1.670	41	1226	1.4065568 ppb	# 58
4) DICHLORODIFLUOROMETHANE	0.000		0	N.D.	
5) CHLOROMETHANE	0.000		0	N.D.	
6) VINYL CHLORIDE	0.000		0	N.D.	
7) 1,3-BUTADIENE	1.962	39	1143	N.D.	
8) BROMOMETHANE	2.236	94	819	N.D.	
9) CHLOROETHANE	0.000		0	N.D.	
10) TRICHLOROFLUOROMETHANE	0.000		0	N.D.	
11) DICHLOROFLUOROMETHANE	0.000		0	N.D.	
12) ETHYL ETHER	0.000		0	N.D.	
13) ACROLEIN	0.000		0	N.D.	
14) 1,1-DICHLOROETHENE	0.000		0	N.D.	
15) 1,1,2-TRICHLOROTRIFLUO...	0.000		0	N.D.	
16) ACETONE	3.130	43	1650	1.1675315 ppb	# 40
17) IODOMETHANE	2.863	142	1505	N.D.	
18) CARBON DISULFIDE	2.790	76	1829	N.D.	
19) METHYLENE CHLORIDE	3.112	84	527	N.D.	
20) ACRYLONITRILE	0.000		0	N.D.	
21) n-Hexane	0.000		0	N.D.	
22) TRANS-1,2-DICHLOROETHENE	0.000		0	N.D.	
23) METHYL TERT-BUTYL ETHER	0.000		0	N.D.	
24) 1,1-DICHLOROETHANE	0.000		0	N.D.	
25) VINYL ACETATE	3.720	43	776	N.D.	
26) DI-ISOPROPYL ETHER	0.000		0	N.D.	
27) 2,2-Dichloropropane	0.000		0	N.D.	
28) CIS-1,2-DICHLOROETHENE	0.000		0	N.D.	
29) 2-BUTANONE (MEK)	0.000		0	N.D.	
30) BROMOCHLOROMETHANE	0.000		0	N.D.	
31) TETRAHYDROFURAN	0.000		0	N.D.	
32) CHLOROFORM	0.000		0	N.D.	
34) 1,1,1-TRICHLOROETHANE	0.000		0	N.D.	
35) CARBON TETRACHLORIDE	0.000		0	N.D.	

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\112414\
Data File : 1124 27.D
Acq On : 25 Nov 2014 1:10 am
Operator : 644
Sample : INSTBLK
Misc : water IS/SURR14I25028
ALS Vial : 27 Sample Multiplier: 1
InstName : VOCMS7

Quant Time: Nov 25 02:02:27 2014
Quant Method : C:\msdchem\1\methods\V807K24N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS07
QLast Update : Mon Oct 20 13:22:28 2014
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
36) 1,1-Dichloropropene	0.000		0	N.D.	
37) 2,2,4-TRIMETHYLPENTANE	4.262	57	1843	N.D.	
38) HEPTANE	4.286	43	1425	N.D.	
39) BENZENE	4.353	78	798	N.D.	
40) 1,2-DICHLOROETHANE	0.000		0	N.D.	
42) TRICHLOROETHENE	4.675	130	915	N.D.	
43) 1,2-DICHLOROPROPANE	5.047	62	5841	1.4804855 ppb	# 16
44) DIBROMOMETHANE	0.000		0	N.D.	
45) BROMODICHLOROMETHANE	0.000		0	N.D.	
47) 2-CHLOROETHYL VINYL ETHER	0.000		0	N.D.	
48) CIS-1,3-DICHLOROPROPENE	0.000		0	N.D.	
49) 4-METHYL-2-PENTANONE (...	0.000		0	N.D.	
51) TOLUENE	5.551	91	2911	N.D.	
52) TRANS-1,3-DICHLOROPROPENE	0.000		0	N.D.	
54) 1,1,2-TRICHLOROETHANE	0.000		0	N.D.	
55) TETRACHLOROETHENE	0.000		0	N.D.	
56) 1,3-Dichloropropane	0.000		0	N.D.	
57) 2-HEXANONE	0.000		0	N.D.	
58) CHLORODIBROMOMETHANE	0.000		0	N.D.	
59) 1,2-DIBROMOETHANE	0.000		0	N.D.	
60) CHLOROBENZENE	0.000		0	N.D.	
61) 1,1,1,2-TETRACHLOROETHANE	0.000		0	N.D.	
62) ETHYLBENZENE	0.000		0	N.D.	
63) M&P-XYLENE	6.647	106	1670	N.D.	
64) O-XYLENE	0.000		0	N.D.	
65) STYRENE	0.000		0	N.D.	
66) Bromoform	0.000		0	N.D.	
67) Isopropylbenzene	0.000		0	N.D.	
69) Bromobenzene	7.395	77	2115	N.D.	
70) 1,1,2,2-TETRACHLOROETHANE	0.000		0	N.D.	
71) 1,2,3-TRICHLOROPROPANE	0.000		0	N.D.	
72) TRANS-1,4-DICHLORO-2-B...	0.000		0	N.D.	
73) n-Propylbenzene	7.474	91	1000	N.D.	
74) 4-ETHYLTOLUENE	7.559	105	1773	N.D.	
75) 2-Chlorotoluene	0.000		0	N.D.	
76) 4-Chlorotoluene	0.000		0	N.D.	
77) 1,3,5-Trimethylbenzene	7.620	105	774	N.D.	
78) tert-Butylbenzene	7.894	119	1165	N.D.	
79) 1,2,4-Trimethylbenzene	7.924	105	1495	N.D.	
80) sec-Butylbenzene	0.000		0	N.D.	
81) 1,3-DICHLOROBENZENE	0.000		0	N.D.	
82) p-Isopropyltoluene	8.107	119	653	N.D.	
83) DICYCLOPENTADIENE	0.000		0	N.D.	
85) 1,4-DICHLOROBENZENE	0.000		0	N.D.	
86) 1,2,3-TRIMETHYLBENZENE	8.265	105	935	N.D.	
87) 1,2-DICHLOROBENZENE	0.000		0	N.D.	
88) n-Butylbenzene	8.441	91	909	N.D.	
89) 1,2-Dibromo-3-chloropr...	0.000		0	N.D.	
90) 1,2,4-Trichlorobenzene	0.000		0	N.D.	
91) HEXACHLORO-1,3-BUTADIENE	0.000		0	N.D.	
92) Naphthalene	10.072	128	2474	N.D.	
93) 1,2,3-Trichlorobenzene	0.000		0	N.D.	
94) 1-Methylnaphthalene	10.887	142	1431	N.D.	
95) 2-Methylnaphthalene	11.002	142	1023	N.D.	

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\112414\
Data File : 1124 27.D
Acq On : 25 Nov 2014 1:10 am
Operator : 644
Sample : INSTBLK
Misc : water IS/SURR14I25028
ALS Vial : 27 Sample Multiplier: 1
InstName : VOCMS7

Quant Time: Nov 25 02:02:27 2014
Quant Method : C:\msdchem\1\methods\V807K24N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS07
QLast Update : Mon Oct 20 13:22:28 2014
Response via : Initial Calibration

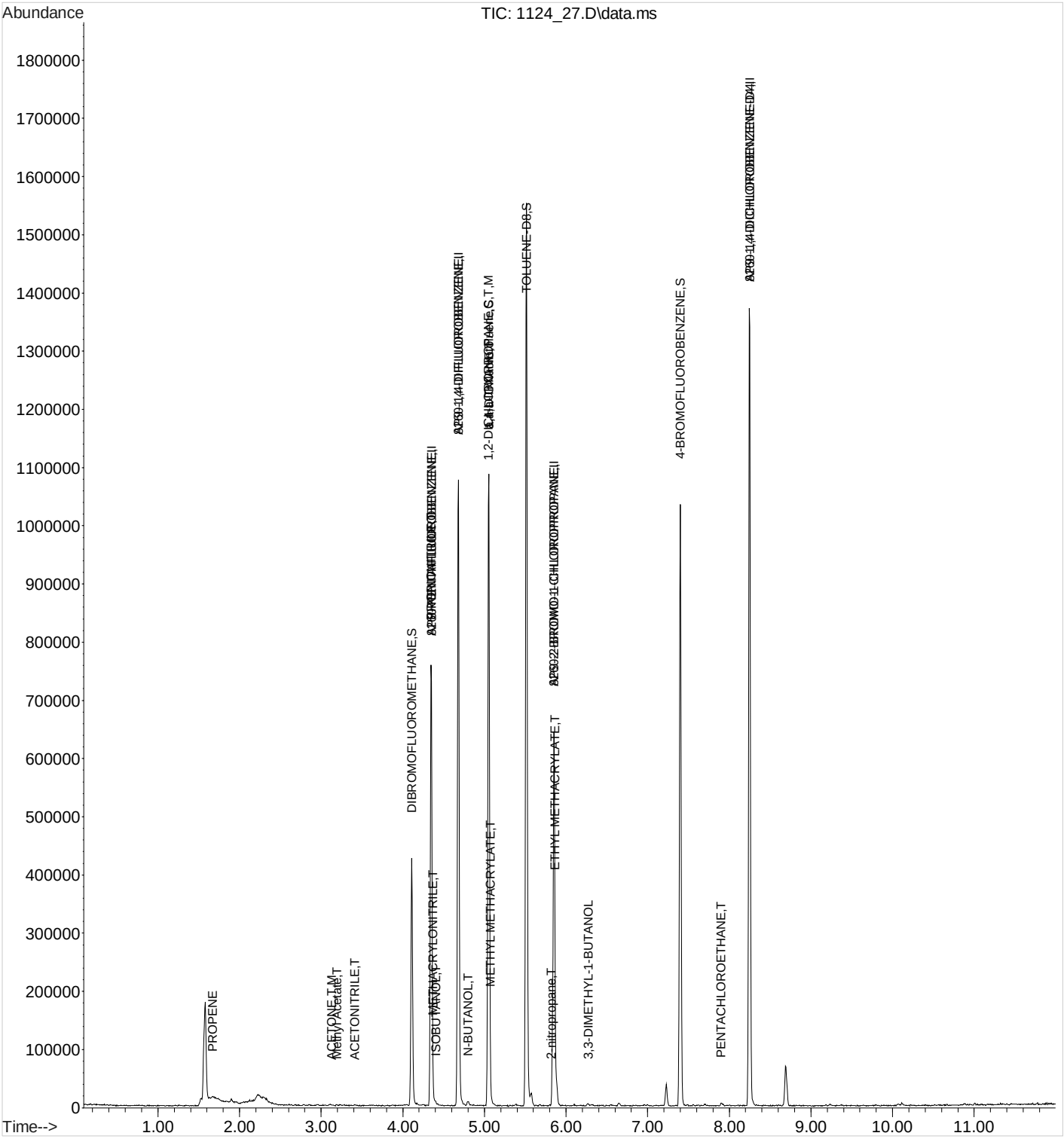
	Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
97)	ETHANOL	0.000		0	N.D.	
98)	Bromoethane	0.000		0	N.D.	
99)	2-PROPANOL	0.000		0	N.D.	
100)	Methyl Acetate	3.191	43	1727	0.4911120 ppb #	54
101)	ACETONITRILE	3.410	41	2453	3.3627726 ppb #	50
102)	ALLYL CHLORIDE	0.000		0	N.D.	
103)	tert-BUTYL ALCOHOL	0.000		0	N.D.	
104)	chloroprene	0.000		0	N.D.	
105)	ETHYL TERT-BUTYL ETHER	0.000		0	N.D.	
106)	PROPIONITRILE	4.347	54	1932	2.7254366 ppb #	1
107)	Ethyl Acetate	4.037	43	1329	N.D.	
108)	METHACRYLONITRILE	4.371	67	5223	2.6142071 ppb #	93
109)	Cyclohexane	0.000		0	N.D.	
110)	tert-butyl formate	0.000		0	N.D.	
111)	ISOBUTANOL	4.402	43	1286	4.3017668 ppb #	72
112)	t-Amyl Alcohol	0.000		0	N.D.	
113)	TERT-AMYL METHYL ETHER	0.000		0	N.D.	
115)	N-BUTANOL	4.803	56	4001	21.6962217 ppb #	65
116)	Methyl Cyclohexane	4.682	83	7366	N.D.	
117)	2-nitropropane	5.819	43	517	0.3896625 ppb #	17
118)	METHYL METHACRYLATE	5.071	41	2228	0.4907252 ppb #	1
119)	1,4-DIOXANE	5.053	88	3282	53.4660015 ppb #	38
120)	n-octane	0.000		0	N.D.	
121)	3,3-DIMETHYL-1-BUTANOL	6.269	57	2738	5.0687177 ppb #	77
123)	ETHYL METHACRYLATE	5.862	69	2362	0.3634019 ppb #	1
124)	CIS-1,4-DICHLORO-2-BUTENE	0.000		0	N.D.	
125)	Cyclohexanone	7.699	55	1726	No Calib #	
126)	PENTACHLOROETHANE	7.894	117	1235	0.3923089 ppb #	81
127)	Hexachloroethane	0.000		0	N.D.	

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\112414\
Data File : 1124 27.D
Acq On : 25 Nov 2014 1:10 am
Operator : 644
Sample : INSTBLK
Misc : water IS/SURR14I25028
ALS Vial : 27 Sample Multiplier: 1
InstName : VOCMS7

Quant Time: Nov 25 02:02:27 2014
Quant Method : C:\msdchem\1\methods\V807K24N.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS07
QLast Update : Mon Oct 20 13:22:28 2014
Response via : Initial Calibration



C10-C40 Oil Range by Method 8015

12065 Lebanon Rd
Mt. Juliet, TN 37122
(615) 758-5858
(800) 767-5859
Fax (615) 758-5859
Tax I.D 62-0814289
Est. 1970

Quality Control Summary
SDG: L735181

C10-C40 Oil Range by Method 8015
URS Corporation - Tucson AZ - 1088308

Project: Holloman AFB
Project No: 23446543.0057AA

Login No: L735181

Lab SampleID.	Client ID
L735181-01	H-TU508-TRIPBLANK-TT01
L735181-02	H-TU508-MW06-NT01
L735181-03	H-TU508-MW06-ND01
L735181-04	H-TU508-MW05-ND01
L735181-05	H-TU508-MW05-NT01
L735181-06	H-TU508-MW04-ND01
L735181-07	H-TU508-MW04-NT01
L735181-08	H-TU508-MW07-NT01
L735181-09	H-TU508-MW07-ND01
L735181-10	H-TU508-MW07-NT01

I certify that this data package accurately represents the information in the raw data found herein, both technically and for completeness. Release of the data contained in this data package has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature.

Signature: _____ Name: ESC Lab Sciences

Date: _____ Title: Quality Control

12065 Lebanon Rd
Mt. Juliet, TN 37122
(615) 758-5858
(800) 767-5859
Fax (615) 758-5859
Tax I.D 62-0814289
Est. 1970

Quality Control Summary
SDG: L735181
URS Corporation - Tucson AZ - 1088308

Test:	C10-C40 Oil Range by Method 8015		
Project No:	23446543.0057AA	Matrix:	Water - mg/L
Project:	Holloman AFB	EPA ID:	TN00003
Collection Date:	11/20/2014	**Analytic Batch:**	**WG756714**
Analysis Date:	11/26/2014	Analyst:	546
Instrument ID:	SVGC31	Prep Date:	11/25/2014
Sample Numbers:	L735181-02, -05, -07, -10		

Workgroup: **WG756714**
Description: **Diesel and Oil Ranges by LVI by Method 8015 (GW)**

Sample Name	Collect Date	Prep Date	Analysis Date
L735181-02 1x	11/19/2014	11/26/2014	11/26/2014
L735181-05 1x	11/19/2014	11/26/2014	11/26/2014
L735181-07 1x	11/19/2014	11/26/2014	11/26/2014
L735181-10 1x	11/21/2014	11/26/2014	11/26/2014

Parameters in bold text are reported in this SDG

12065 Lebanon Rd
Mt. Juliet, TN 37122
(615) 758-5858
(800) 767-5859
Fax (615) 758-5859
Tax I.D 62-0814289
Est. 1970

Quality Control Summary
SDG: L735181
URS Corporation - Tucson AZ - 1088308

Test:	C10-C40 Oil Range by Method 8015		
Project No:	23446543.0057AA	Matrix:	Water - mg/L
Project:	Holloman AFB	EPA ID:	TN00003
Collection Date:	11/20/2014	**Analytic Batch:**	**WG756714**
Analysis Date:	11/26/2014	Analyst:	546
Instrument ID:	SVGC31	Prep Date:	11/25/2014
Sample Numbers:	L735181-02, -05, -07, -10		

Method Blank Summary

Instrument	Client Sample ID	Lab Sample ID	File Name	Analysis Date	Analysis Time
SVGC31	Blank WG756714	Blank WG756714	1126_06.D	11/26/2014	5:19 PM
SVGC31	LCS WG756714	LCS WG756714	1126_07.D	11/26/2014	5:37 PM
SVGC31	LCSD WG756714	LCSD WG756714	1126_08.D	11/26/2014	5:54 PM
SVGC31	H-TU508-MW06-NT01	L735181-02	1126_15.D	11/26/2014	8:00 PM
SVGC31	H-TU508-MW05-NT01	L735181-05	1126_16.D	11/26/2014	8:18 PM
SVGC31	H-TU508-MW04-NT01	L735181-07	1126_17.D	11/26/2014	8:36 PM
SVGC31	H-TU508-MW07-NT01	L735181-10	1126_18.D	11/26/2014	8:55 PM

Parameters in bold text are reported in this SDG

12065 Lebanon Rd
Mt. Juliet, TN 37122
(615) 758-5858
(800) 767-5859
Fax (615) 758-5859
Tax I.D 62-0814289
Est. 1970

Quality Control Summary
SDG: L735181
URS Corporation - Tucson AZ - 1088308

Test:	C10-C40 Oil Range by Method 8015		
Project No:	23446543.0057AA	Matrix:	Water - mg/L
Project:	Holloman AFB	EPA ID:	TN00003
Collection Date:	11/20/2014	**Analytic Batch:**	**WG756714**
Analysis Date:	11/26/2014	Analyst:	546
Instrument ID:	SVGC31	Prep Date:	11/25/2014
Sample Numbers:	L735181-02, -05, -07, -10		

Method Blank

Analyte	CAS	RDL	MDL	Qualifier
C10-C28 Diesel Range		< 0.100	< 0.0222	
C28-C40 Oil Range		< 0.100	0.0173	

Laboratory Control Sample (LCS)

Analyte	Dil	True Value	Found	% Rec	Control Limits	Qual
C10-C28 Diesel Range	1	1.5	1.5165	101	70 - 130	

Laboratory Control Sample Duplicate (LCSD)

Analyte	Dil	True Value	Found	% Rec	Control Limits	Qual
C10-C28 Diesel Range	1	1.5	1.5485	103	70 - 130	

Laboratory Control Sample / Laboratory Control Sample Duplicate

Analyte	Dil	Spike	LCS	% Rec	LCSD	% Rec	Control Limits	% Rec Qual	% RPD	Control Limits	RPD Qual
C10-C28 Diesel Range	1	1.5	1.5165	101	1.5485	103	70 - 130		2.08	20	

Parameters in bold text are reported in this SDG

12065 Lebanon Rd
Mt. Juliet, TN 37122
(615) 758-5858
(800) 767-5859
Fax (615) 758-5859
Tax I.D 62-0814289
Est. 1970

Quality Control Summary
SDG: L735181
URS Corporation - Tucson AZ - 1088308

Test:	C10-C40 Oil Range by Method 8015		
Project No:	23446543.0057AA	Matrix:	Water - mg/L
Project:	Holloman AFB	EPA ID:	TN00003
Collection Date:	11/20/2014	**Analytic Batch:**	**WG756714**
Analysis Date:	11/26/2014	Analyst:	546
Instrument ID:	SVGC31	Prep Date:	11/25/2014
Sample Numbers:	L735181-02, -05, -07, -10		

Surrogate Summary

Laboratory Sample ID	Instrument	File ID	o-Terphenyl ppm	o-Terphenyl % Rec
L735181-02	SVGC31	1126_15	0.0204	102
L735181-05	SVGC31	1126_16	0.0204	102
L735181-07	SVGC31	1126_17	0.0206	103
L735181-10	SVGC31	1126_18	0.0212	106
BLANK WG756714	SVGC31	1126_06	0.0213	107
LCS WG756714	SVGC31	1126_07	0.0217	108
LCSD WG756714	SVGC31	1126_08	0.0229	114

o-Terphenyl --O-TERPHENYL True Value: 0.02 ppm Limits: 50 - 150

Environmental Science Corporation
12065 Lebanon Rd., Mt. Juliet, TN 37122

ICV Or CCV Summary Report

Instrument ID	: SVGC31	Analysis Date	: 11/26/14 1624	ICal Method	: LVI EPH
Lab File ID	: 1126_03	Quant Method	: LA31K28N	ICal Protocol	: SW846

Parameter	Col	Response	Std. Conc	IS Conc.	IS Resp.	RF	% Rec	%Rec LL	%Rec HL
C10-C28 Diesel Range		1.546817E+09	60	0	0	2.578028E +07	102		
C28-C40 Oil Range		2.022456E+07		0	0	0			

Surrogate Parameter	Spike Amt	Surr Result	Surr Rec.	Low Limit	High Limit	Qualifier
o-terphenyl	0.4	0.3956683	98.9	70	130	

Parameter	IS Response	IS Low Limit	IS High Limit	IS RT	IS RT LL	IS RT HL	CCV %D	%D Limit

Environmental Science Corporation
12065 Lebanon Rd., Mt. Juliet, TN 37122

ICV Or CCV Summary Report

Instrument ID	: SVGC31	Analysis Date	: 11/26/14 1642	ICal Method	: LVI EPH
Lab File ID	: 1126_04	Quant Method	: LA31K28N	ICal Protocol	: SW846

Parameter	Col	Response	Std. Conc	IS Conc.	IS Resp.	RF	% Rec	%Rec LL	%Rec HL
C10-C28 Diesel Range		5.76182E+08		0	0	0			
C28-C40 Oil Range		5.089937E+08	40	0	0	1.272484E +07	96.6		

Surrogate Parameter	Spike Amt	Surr Result	Surr Rec.	Low Limit	High Limit	Qualifier
o-terphenyl	0.4	0	0	70	130	

Parameter	IS Response	IS Low Limit	IS High Limit	IS RT	IS RT LL	IS RT HL	CCV %D	%D Limit

Environmental Science Corporation
12065 Lebanon Rd., Mt. Juliet, TN 37122

ICV Or CCV Summary Report

Instrument ID	: SVGC31	Analysis Date	: 11/26/14 2337	ICal Method	: LVI EPH
Lab File ID	: 1126_27	Quant Method	: LA31K28N	ICal Protocol	: SW846

Parameter	Col	Response	Std. Conc	IS Conc.	IS Resp.	RF	% Rec	%Rec LL	%Rec HL
C10-C28 Diesel Range		1.608017E+09	60	0	0	2.680028E +07	106		
C28-C40 Oil Range		2.912502E+07		0	0	0			

Surrogate Parameter	Spike Amt	Surr Result	Surr Rec.	Low Limit	High Limit	Qualifier
o-terphenyl	0.4	0.3996489	99.9	70	130	

Parameter	IS Response	IS Low Limit	IS High Limit	IS RT	IS RT LL	IS RT HL	CCV %D	%D Limit

Environmental Science Corporation
12065 Lebanon Rd., Mt. Juliet, TN 37122

ICV Or CCV Summary Report

Instrument ID	: SVGC31	Analysis Date	: 11/26/14 2354	ICal Method	: LVI EPH
Lab File ID	: 1126_28	Quant Method	: LA31K28N	ICal Protocol	: SW846

Parameter	Col	Response	Std. Conc	IS Conc.	IS Resp.	RF	% Rec	%Rec LL	%Rec HL
C10-C28 Diesel Range		6.130339E+08		0	0	0			
C28-C40 Oil Range		5.388835E+08	40	0	0	1.347209E +07	103		

Surrogate Parameter	Spike Amt	Surr Result	Surr Rec.	Low Limit	High Limit	Qualifier
o-terphenyl	0.4	0	0	70	130	

Parameter	IS Response	IS Low Limit	IS High Limit	IS RT	IS RT LL	IS RT HL	CCV %D	%D Limit

Environmental Science Corporation
12065 Lebanon Rd., Mt. Juliet, TN 37122

ICV Or CCV Summary Report

Instrument ID	: SVGC31	Analysis Date	: 11/27/14 0552	ICal Method	: LVI EPH
Lab File ID	: 1126_41	Quant Method	: LA31K28N	ICal Protocol	: SW846

Parameter	Col	Response	Std. Conc	IS Conc.	IS Resp.	RF	% Rec	%Rec LL	%Rec HL
C10-C28 Diesel Range		1.90985E+09	60	0	0	3.183083E +07	126		
C28-C40 Oil Range		0		0	0	0			

Surrogate Parameter	Spike Amt	Surr Result	Surr Rec.	Low Limit	High Limit	Qualifier
o-terphenyl	0.4	0.4476423	112	70	130	

Parameter	IS Response	IS Low Limit	IS High Limit	IS RT	IS RT LL	IS RT HL	CCV %D	%D Limit

Environmental Science Corporation
12065 Lebanon Rd., Mt. Juliet, TN 37122

ICV Or CCV Summary Report

Instrument ID	: SVGC31	Analysis Date	: 11/27/14 0615	ICal Method	: LVI EPH
Lab File ID	: 1126_42	Quant Method	: LA31K28N	ICal Protocol	: SW846

Parameter	Col	Response	Std. Conc	IS Conc.	IS Resp.	RF	% Rec	%Rec LL	%Rec HL
C10-C28 Diesel Range		5.872734E+08		0	0	0			
C28-C40 Oil Range		4.815285E+08	40	0	0	1.203821E +07	91.1		

Surrogate Parameter	Spike Amt	Surr Result	Surr Rec.	Low Limit	High Limit	Qualifier
o-terphenyl	0.4	0	0	70	130	

Parameter	IS Response	IS Low Limit	IS High Limit	IS RT	IS RT LL	IS RT HL	CCV %D	%D Limit

Raw Data

DRO LVI SVOCs Benchsheet

Batch #: WG756714

Analyst: RAS567 **Prep Start Date/Time:** 11/26/14 00:51:50 **Prep End Date/Time:** 11/26/14 03:19:48

Na2SO4: 14J24546 Amt. Used: 0.50 Exp. Date:04/24/15 **MeCl2:** 14J30891 Amt. Used: 2 Exp. Date:04/30/15 **NaCl:** 14K19017 Amt. Used: 10 Exp. Date:05/19/15

Hydrochloric Acid: 14K06283 Amt. Used: 0.20 Exp. Date:05/06/15 **Surrogate:** 14G19448 Amt. Used: 40 µL Exp. Date:01/03/15

LCS/MS Spike: 14K11562 Amt. Used: 40 µL Exp. Date:04/13/15

Sample Number	Qualifiers	Extracted Vol. (mL)	pH	Emulsion	Solvent Vol. (mL)	Final Volume(mL)	Extract Color	Sample Comments
BLANK		40	<2	No Emulsion	2	2	Colorless	
LCS		40	<2	No Emulsion	2	2	Colorless	
LCSD		40	<2	No Emulsion	2	2	Colorless	
1. L735181-02		40	<2	No Emulsion	2	2	Colorless	EDD/QC4/DOD
2. L735181-05		40	<2	No Emulsion	2	2	Colorless	EDD/QC4/DOD
3. L735181-07		40	<2	No Emulsion	2	2	Colorless	EDD/QC4/DOD
4. L735181-10		40	<2	No Emulsion	2	2	Colorless	EDD/QC4/DOD

Comments:
syringe #- ESC30678

Reviewed By:JNS546 on 11/26/14 14:49:00

Environmental Science Corporation
12065 Lebanon Rd., Mt. Juliet, TN 37122

Injection Log

Instrument ID : SVGC31
Computer Name : SVCOMPBA

Released By : Brian Ford
Date Released : 12/2/2014 10:27:46 AM

Run ID : 112614
Signature : _____

#	File ID	Sample ID	Method	WG	Product	Matrix	Account #	State	Dil.	Mult.	Injected	Misc.
1	1126_01	INSTBLK	LA31K28N						1	1	11/26/14 1549	" "
2	1126_02	LOC FL 68 PPM 14K18894	LA31K28N						1	1	11/26/14 1606	" "
3	1126_03	ICV DRO 60 PPM 14K26349	LA31K28N						1	1	11/26/14 1624	" "
4	1126_04	ICV 10W30 40M PPM 14KJ24536	LA31K28N						1	1	11/26/14 1642	" "
5	1126_05	MECL2	LA31K28N						1	1	11/26/14 1700	" "
6	1126_06	BLANK	LA31K28N	WG756714	DROOROLVI	GW			1	0.05	11/26/14 1719	"water surr14G19448/spk14K11562"
7	1126_07	LCS	LA31K28N	WG756714	DROOROLVI	GW			1	0.05	11/26/14 1737	"water surr14G19448/spk14K11562"
8	1126_08	LCSD	LA31K28N	WG756714	DROOROLVI	GW			1	0.05	11/26/14 1754	"water surr14G19448/spk14K11562"
9	1126_09	BLANK	LA31K28N	WG756528	DROOROLVI	GW			1	0.05	11/26/14 1812	"water surr14G19448/spk14J28699"
10	1126_10	LCS	LA31K28N	WG756528	DROOROLVI	GW			1	0.05	11/26/14 1830	"water surr14G19448/spk14J28699"
11	1126_11	LCSD	LA31K28N	WG756528	DROOROLVI	GW			1	0.05	11/26/14 1848	"water surr14G19448/spk14J28699"
12	1126_12	BLANK	LA31K28N	WG755915	DROOROLVI	GW			1	0.05	11/26/14 1906	"water surr14G19448/spk14K11562"
13	1126_13	LCS	LA31K28N	WG755915	DROOROLVI	GW			1	0.05	11/26/14 1924	"water surr14G19448/spk14K11562"
14	1126_14	LCSD	LA31K28N	WG755915	DROOROLVI	GW			1	0.05	11/26/14 1942	"water surr14G19448/spk14K11562"
15	1126_15	L735181-02	LA31K28N	WG756714	DROOROLVI	GW	URSTAZ	AZ	1	0.05	11/26/14 2000	"water surr14G19448/spk14K11562"
16	1126_16	L735181-05	LA31K28N	WG756714	DROOROLVI	GW	URSTAZ	AZ	1	0.05	11/26/14 2018	"water surr14G19448/spk14K11562"
17	1126_17	L735181-07	LA31K28N	WG756714	DROOROLVI	GW	URSTAZ	AZ	1	0.05	11/26/14 2036	"water surr14G19448/spk14K11562"
18	1126_18	L735181-10	LA31K28N	WG756714	DROOROLVI	GW	URSTAZ	AZ	1	0.05	11/26/14 2055	"water surr14G19448/spk14K11562"
19	1126_19	L734231-14	LA31K28N	WG756528	DROOROLVI	GW	URSTAZ	AZ	1	0.05	11/26/14 2113	"water surr14G19448/spk14J28699"
20	1126_20	L734231-17	LA31K28N	WG756528	DROOROLVI	GW	URSTAZ	AZ	1	0.05	11/26/14 2131	"water surr14G19448/spk14J28699"
21	1126_21	L734231-22	LA31K28N	WG756528	DROOROLVI	GW	URSTAZ	AZ	1	0.05	11/26/14 2149	"water surr14G19448/spk14J28699"

Environmental Science Corporation
12065 Lebanon Rd., Mt. Juliet, TN 37122

Injection Log

Instrument ID : SVGC31
Computer Name : SVCOMPBA
Released By : Brian Ford
Date Released : 12/2/2014 10:27:46 AM
Run ID : 112614
Signature : _____

#	File ID	Sample ID	Method	WG	Product	Matrix	Account #	State	Dil.	Mult.	Injected	Misc.
22	1126_22	L734231-25	LA31K28N	WG756528	DROOROLVI	GW	URSTAZ	AZ	1	0.05	11/26/14 2207	"water surr14G19448/spk14J28699"
23	1126_23	DNRL735181-10	LA31K28N	WG756528					1	0.05	11/26/14 2225	"water surr14G19448/spk14J28699"
24	1126_24	L735318-03	LA31K28N	WG756528	DROOROLVI	GW	URSTAZ	AZ	1	0.05	11/26/14 2243	"water surr14G19448/spk14J28699"
25	1126_25	INSTBLK	LA31K28N						1	1	11/26/14 2301	" "
26	1126_26	INSTBLK	LA31K28N						1	1	11/26/14 2319	" "
27	1126_27	CCV DRO 60 PPM 14K26349	LA31K28N						1	1	11/26/14 2337	" "
28	1126_28	CCV 10W30 40M PPM 14KJ24536	LA31K28N						1	1	11/26/14 2354	" "
29	1126_29	MECL2	LA31K28N						1	1	11/27/14 0012	" "
30	1126_30	L735318-04	LA31K28N	WG756528	DROOROLVI	GW	URSTAZ	AZ	1	0.05	11/27/14 0030	"water surr14G19448/spk14J28699"
31	1126_31	L734718-11	LA31K28N	WG755915	DROOROLVI	GW	URSTAZ	AZ	1	0.05	11/27/14 0049	"water surr14G19448/spk14K11562"
32	1126_32	L734718-12	LA31K28N	WG755915	DROOROLVI	GW	URSTAZ	AZ	1	0.05	11/27/14 0107	"water surr14G19448/spk14K11562"
33	1126_33	L734718-13	LA31K28N	WG755915	DROOROLVI	GW	URSTAZ	AZ	1	0.05	11/27/14 0125	"water surr14G19448/spk14K11562"
34	1126_34	L734718-14	LA31K28N	WG755915	DROOROLVI	GW	URSTAZ	AZ	1	0.05	11/27/14 0144	"water surr14G19448/spk14K11562"
35	1126_35	L734810-03	LA31K28N	WG755915	DROOROLVI	GW	URSTAZ	AZ	1	0.05	11/27/14 0203	"water surr14G19448/spk14K11562"
36	1126_36	L734810-05	LA31K28N	WG755915	DROOROLVI	GW	URSTAZ	AZ	1	0.05	11/27/14 0222	"water surr14G19448/spk14K11562"
37	1126_37	L734810-07	LA31K28N	WG755915	DROOROLVI	GW	URSTAZ	AZ	1	0.05	11/27/14 0243	"water surr14G19448/spk14K11562"
38	1126_38	L734810-09	LA31K28N	WG755915	DROOROLVI	GW	URSTAZ	AZ	1	0.05	11/27/14 0428	"water surr14G19448/spk14K11562"
39	1126_39	INSTBLK	LA31K28N						1	1	11/27/14 0457	" "
40	1126_40	INSTBLK	LA31K28N						1	1	11/27/14 0524	" "
41	1126_41	CCV DRO 60 PPM 14K26349	LA31K28N						1	1	11/27/14 0552	" "

Environmental Science Corporation
12065 Lebanon Rd., Mt. Juliet, TN 37122

Injection Log

Instrument ID : SVGC31
Computer Name : SVCOMPBA
Released By : Brian Ford
Date Released : 12/2/2014 10:27:46 AM
Run ID : 112614
Signature : _____

#	File ID	Sample ID	Method	WG	Product	Matrix	Account #	State	Dil.	Mult.	Injected	Misc.
42	1126_42	CCV 10W30 40M PPM 14KJ24536	LA31K28N						1	1	11/27/14 0615	" "
43	1126_43	LOC FL 68 PPM 14K18894	EP31K25N						1	1	11/27/14 0636	" "
44	1126_44	CCV EPH 80 PPM 14K24239	EP31K25N						1	1	11/27/14 0656	" "
44	1126_44-1	CCV EPH 80 PPM 14K24239	EP31K25N						1	1	11/27/14 0656	" "
45	1126_45	EPHJF STD 40 PPM 14I23928	EP31K25N						1	1	11/27/14 0716	" "
46	1126_46	MECL2	EP31K25N						1	1	11/27/14 0736	" "
47	1126_47	L734985-01	EP31K25N	WG756529					1	0.05	11/27/14 0756	"water surr14G19448/spk14K11562"
48	1126_48	L734985-02	EP31K25N	WG756529					1	0.05	11/27/14 0815	"water surr14G19448/spk14K11562"
49	1126_49	L734984-11	EP31K25N	WG756529	EPHJFLVI	GW	ENVCOCMCA	AZ	1	0.05	11/27/14 0834	"water surr14G19448/spk14K11562"
50	1126_50	L734984-12	EP31K25N	WG756529	EPHJFLVI	GW	ENVCOCMCA	AZ	1	0.05	11/27/14 0853	"water surr14G19448/spk14K11562"
51	1126_51	L735387-08	EP31K25N	WG756531	DROOROLVI	GW	ARCADHTX	TX	1	0.05	11/27/14 0912	"water surr14G19448/spk14K11562"
52	1126_52	L735385-03	EP31K25N	WG756537	DROWYLVI	GW	DELTAUT	WY	1	0.05	11/27/14 0931	"water surr14G19448/spk14K11562"
53	1126_53	L735385-04	EP31K25N	WG756537	DROWYLVI	GW	DELTAUT	WY	1	0.05	11/27/14 0950	"water surr14G19448/spk14K11562"
54	1126_54	L735385-05	EP31K25N	WG756537	DROWYLVI	GW	DELTAUT	WY	1	0.05	11/27/14 1009	"water surr14G19448/spk14K11562"
55	1126_55	L735399-01	EP31K25N	WG756537	DROWYLVI	GW	DELTAUT	WY	1	0.05	11/27/14 1027	"water surr14G19448/spk14K11562"
56	1126_56	L735399-02	EP31K25N	WG756537	DROWYLVI	GW	DELTAUT	WY	1	0.05	11/27/14 1046	"water surr14G19448/spk14K11562"
57	1126_57	INSTBLK	EP31K25N						1	1	11/27/14 1105	" "
58	1126_58	INSTBLK	EP31K25N						1	1	11/27/14 1123	" "
59	1126_59	CCV EPH 80 PPM 14K24239	EP31K25N						1	1	11/27/14 1142	" "

Environmental Science Corporation
12065 Lebanon Rd., Mt. Juliet, TN 37122

Injection Log

Instrument ID : SVGC31
Computer Name : SVCOMPBA
Released By : Brian Ford
Date Released : 12/2/2014 10:27:46 AM
Run ID : 112614
Signature : _____

#	File ID	Sample ID	Method	WG	Product	Matrix	Account #	State	Dil.	Mult.	Injected	Misc.
59	1126_59-1	CCV EPH 80 PPM 14K24239	EP31K25N						1	1	11/27/14 1142	" "
60	1126_60	MECL2	EP31K25N						1	1	11/27/14 1200	" "
61	1126_61	L735380-11	EP31K25N	WG756391	DROWYLVI	GW	DELTAUT	WY	1	0.05	11/27/14 1218	"water surr14G19448/spk14K11562"
62	1126_62	L735380-12	EP31K25N	WG756391	DROWYLVI	GW	DELTAUT	WY	1	0.05	11/27/14 1236	"water surr14G19448/spk14K11562"
63	1126_63	L735291-07	EP31K25N	WG756301	DROWYLVI	GW	DELTAUT	WY	1	0.05	11/27/14 1255	"water surr14G19448/spk14K11562"
64	1126_64	L735291-08	EP31K25N	WG756301	DROWYLVI	GW	DELTAUT	WY	1	0.05	11/27/14 1313	"water surr14G19448/spk14K11562"
65	1126_65	L735291-09	EP31K25N	WG756301	DROWYLVI	GW	DELTAUT	WY	1	0.05	11/27/14 1331	"water surr14G19448/spk14K11562"
66	1126_66	L735320-01	EP31K25N	WG756301	DROWYLVI	GW	DELTAUT	WY	1	0.05	11/27/14 1349	"water surr14G19448/spk14K11562"
67	1126_67	L735321-01	EP31K25N	WG756301	DROWYLVI	GW	DELTAUT	WY	1	0.05	11/27/14 1407	"water surr14G19448/spk14K11562"
68	1126_68	L735321-02	EP31K25N	WG756301	DROWYLVI	GW	DELTAUT	WY	1	0.05	11/27/14 1426	"water surr14G19448/spk14K11562"
69	1126_69	L735321-03	EP31K25N	WG756301	DROWYLVI	GW	DELTAUT	WY	1	0.05	11/27/14 1444	"water surr14G19448/spk14K11562"
70	1126_70	L735321-04	EP31K25N	WG756301	DROWYLVI	GW	DELTAUT	WY	1	0.05	11/27/14 1502	"water surr14G19448/spk14K11562"
71	1126_71	INSTBLK	EP31K25N						1	1	11/27/14 1520	" "
72	1126_72	INSTBLK	EP31K25N						1	1	11/27/14 1538	" "
73	1126_73	CCV EPH 80 PPM 14K24239	EP31K25N						1	1	11/27/14 1556	" "
73	1126_73-1	CCV EPH 80 PPM 14K24239	EP31K25N						1	1	11/27/14 1556	" "
74	1126_74	LOC FL 68 PPM 14K18894	EP31K25N						1	1	11/27/14 1614	" "
75	1126_75	CCV EPH 80 PPM 14K24239	EP31K25N						1	1	11/27/14 1632	" "
75	1126_75-1	CCV EPH 80 PPM 14K24239	EP31K25N						1	1	11/27/14 1632	" "

Environmental Science Corporation
12065 Lebanon Rd., Mt. Juliet, TN 37122

Injection Log

Instrument ID : SVGC31
Computer Name : SVCOMPBA
Released By : Brian Ford
Date Released : 12/2/2014 10:27:46 AM
Run ID : 112614
Signature : _____

#	File ID	Sample ID	Method	WG	Product	Matrix	Account #	State	Dil.	Mult.	Injected	Misc.
76	1126_76	MECL2	EP31K25N						1	1	11/27/14 1650	" "
77	1126_77	L734749-02	EP31K25N	WG755909	DROWYLVI	GW	DELTAUT	WY	5	0.25	11/27/14 1708	"water surr14G19448/spk14K11562"
78	1126_78	L734750-03	EP31K25N	WG755909	DROWYLVI	GW	DELTAUT	WY	5	0.25	11/27/14 1726	"water surr14G19448/spk14K11562"
79	1126_79	L734753-03	EP31K25N	WG755909	DROWYLVI	GW	DELTAUT	WY	5	0.25	11/27/14 1744	"water surr14G19448/spk14K11562"
80	1126_80	L735282-01	EP31K25N	WG756391	DROWYLVI	GW	DELTAUT	WY	5	0.25	11/27/14 1801	"water surr14G19448/spk14K11562"
81	1126_81	L734749-01	EP31K25N	WG755909	DROWYLVI	GW	DELTAUT	WY	20	1	11/27/14 1819	"water surr14G19448/spk14K11562"
82	1126_82	L734750-01	EP31K25N	WG755909	DROWYLVI	GW	DELTAUT	WY	20	1	11/27/14 1837	"water surr14G19448/spk14K11562"
83	1126_83	L734753-01	EP31K25N	WG755909	DROWYLVI	GW	DELTAUT	WY	20	1	11/27/14 1855	"water surr14G19448/spk14K11562"
84	1126_84	L735271-01	EP31K25N	WG755909	DROWYLVI	GW	DELTAUT	WY	20	1	11/27/14 1913	"water surr14G19448/spk14K11562"
85	1126_85	L735282-02	EP31K25N	WG756391	DROWYLVI	GW	DELTAUT	WY	20	1	11/27/14 1931	"water surr14G19448/spk14K11562"
86	1126_86	L735282-03	EP31K25N	WG756391	DROWYLVI	GW	DELTAUT	WY	20	1	11/27/14 1948	"water surr14G19448/spk14K11562"
87	1126_87	INSTBLK	EP31K25N						1	1	11/27/14 2006	" "
88	1126_88	INSTBLK	EP31K25N						1	1	11/27/14 2024	" "
89	1126_89	CCV EPH 80 PPM 14K24239	EP31K25N						1	1	11/27/14 2042	" "

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\112614\
Data File : 1126 04.d
Signal(s) : FID1A.ch
Acq On : 26 Nov 2014 4:42 pm
Operator : 546
Sample : ICV 10W30 40M PPM 14KJ24536
Misc :
ALS Vial : 4 Sample Multiplier: 1

Integration File: events.e
Quant Time: Nov 28 10:52:04 2014
Quant Method : C:\msdchem\1\methods\LA31K28N.m
Quant Title :
QLast Update : Fri Nov 28 10:02:16 2014
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :

Compound	R.T.	Response	Conc	Units
System Monitoring Compounds				
3) S o-terphenyl	0.00	0	N.D.	ppm d
Spiked Amount 0.0200 Range 50 - 150 Recovery = 0.00%#				
Target Compounds				
1) H,M C10-C28 Diesel Range	3.07	576182043	22.3585797	ppm
2) H,M C28-C40 Oil Range	5.93	508993728	38.6394472	ppm

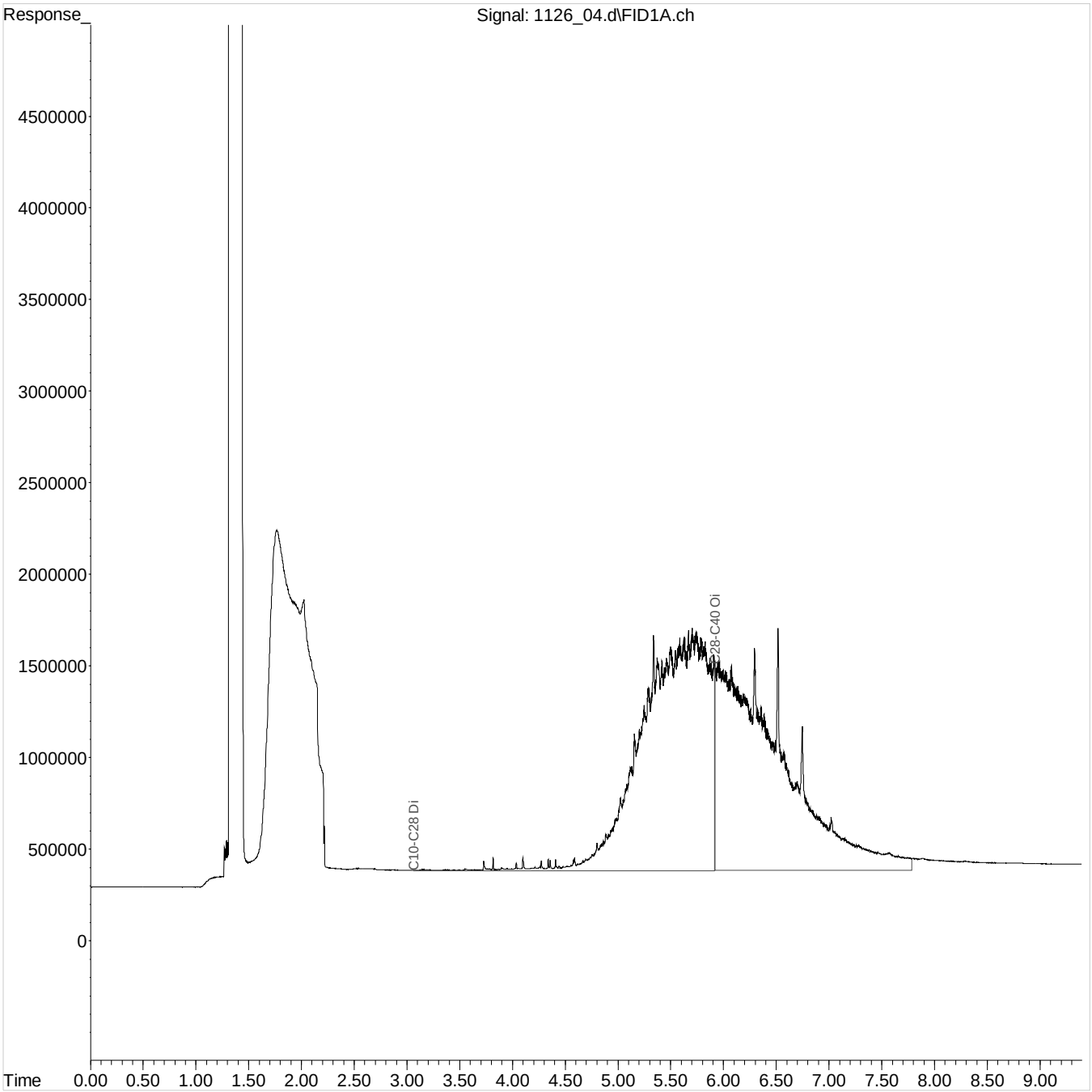
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\112614\
Data File : 1126 04.d
Signal(s) : FID1A.ch
Acq On : 26 Nov 2014 4:42 pm
Operator : 546
Sample : ICV 10W30 40M PPM 14KJ24536
Misc :
ALS Vial : 4 Sample Multiplier: 1

Integration File: events.e
Quant Time: Nov 28 10:52:04 2014
Quant Method : C:\msdchem\1\methods\LA31K28N.m
Quant Title :
QLast Update : Fri Nov 28 10:02:16 2014
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\112614\
Data File : 1126 06.d
Signal(s) : FID1A.ch
Acq On : 26 Nov 2014 5:19 pm
Operator : 546
Sample : BLANK 1x WG756714 40-2
Misc : water surr14G19448/spk14K11562
ALS Vial : 6 Sample Multiplier: 0.05

Integration File: events.e
Quant Time: Nov 28 10:38:02 2014
Quant Method : C:\msdchem\1\methods\LA31K28N.m
Quant Title :
QLast Update : Fri Nov 28 10:02:16 2014
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :

Compound	R.T.	Response	Conc	Units
System Monitoring Compounds				
3) S o-terphenyl	4.72	14895617	0.0213120	ppm m
Spiked Amount 0.0200 Range 50 - 150 Recovery = 106.56%				
Target Compounds				
1) H,M C10-C28 Diesel Range	3.07	23350832	0.0111702	ppm
2) H,M C28-C40 Oil Range	5.93	36912702	0.0342367	ppm

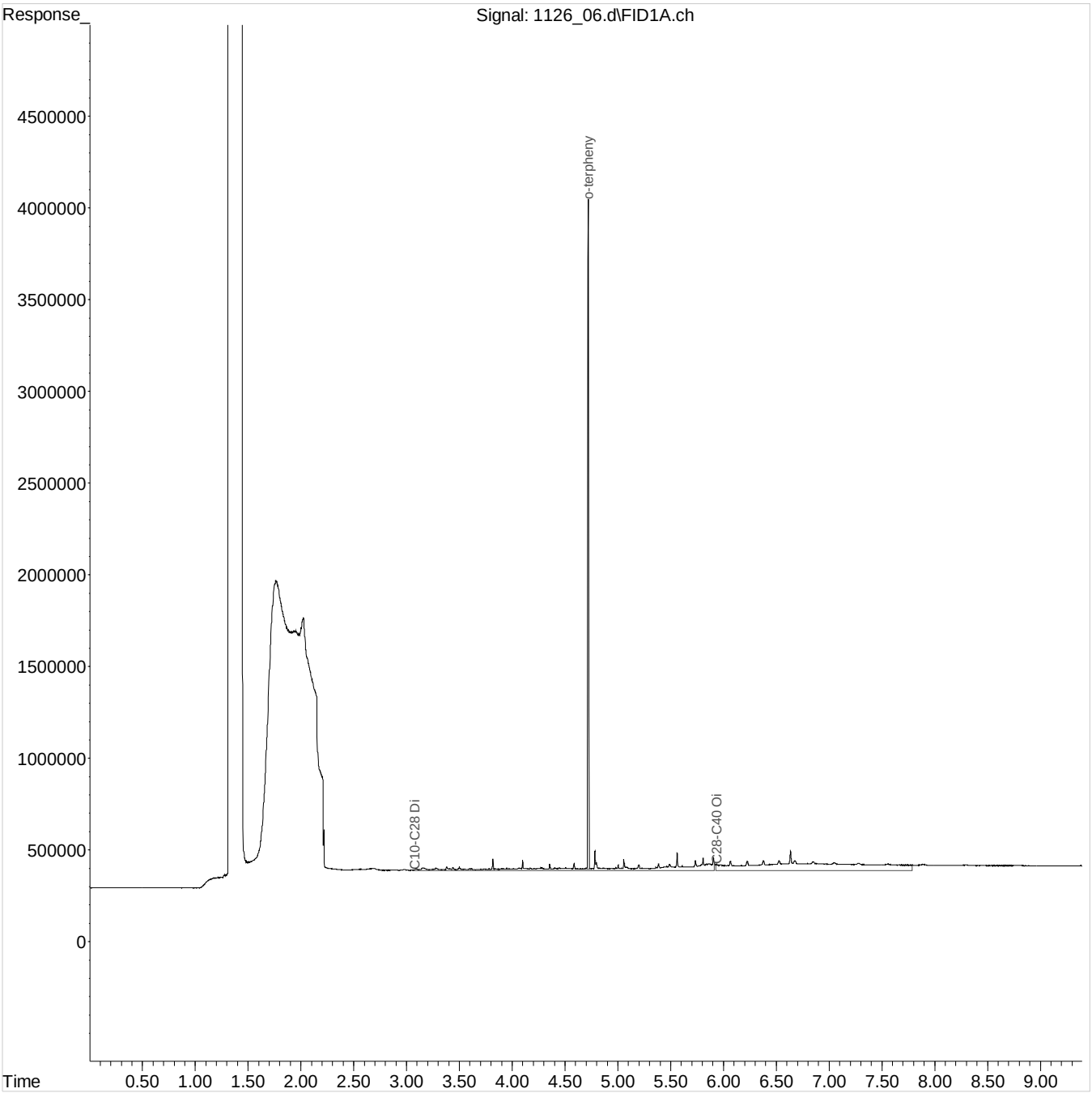
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\112614\
Data File : 1126 06.d
Signal(s) : FID1A.ch
Acq On : 26 Nov 2014 5:19 pm
Operator : 546
Sample : BLANK 1x WG756714 40-2
Misc : water surr14G19448/spk14K11562
ALS Vial : 6 Sample Multiplier: 0.05

Integration File: events.e
Quant Time: Nov 28 10:38:02 2014
Quant Method : C:\msdchem\1\methods\LA31K28N.m
Quant Title :
QLast Update : Fri Nov 28 10:02:16 2014
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\112614\
Data File : 1126 07.d
Signal(s) : FID1A.ch
Acq On : 26 Nov 2014 5:37 pm
Operator : 546
Sample : LCS 1x WG756714 40-2
Misc : water surr14G19448/spk14K11562
ALS Vial : 7 Sample Multiplier: 0.05

Integration File: events.e
Quant Time: Nov 28 10:38:34 2014
Quant Method : C:\msdchem\1\methods\LA31K28N.m
Quant Title :
QLast Update : Fri Nov 28 10:02:16 2014
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :

Compound	R.T.	Response	Conc	Units	
System Monitoring Compounds					
3) S o-terphenyl	4.72	15152974	0.0216802	ppm	m
Spiked Amount 0.0200 Range 50 - 150 Recovery = 108.40%					
Target Compounds					
1) H,M C10-C28 Diesel Range	3.07	775274472	1.5165087	ppm	
2) H,M C28-C40 Oil Range	5.93	26417504	N.D.	ppm	

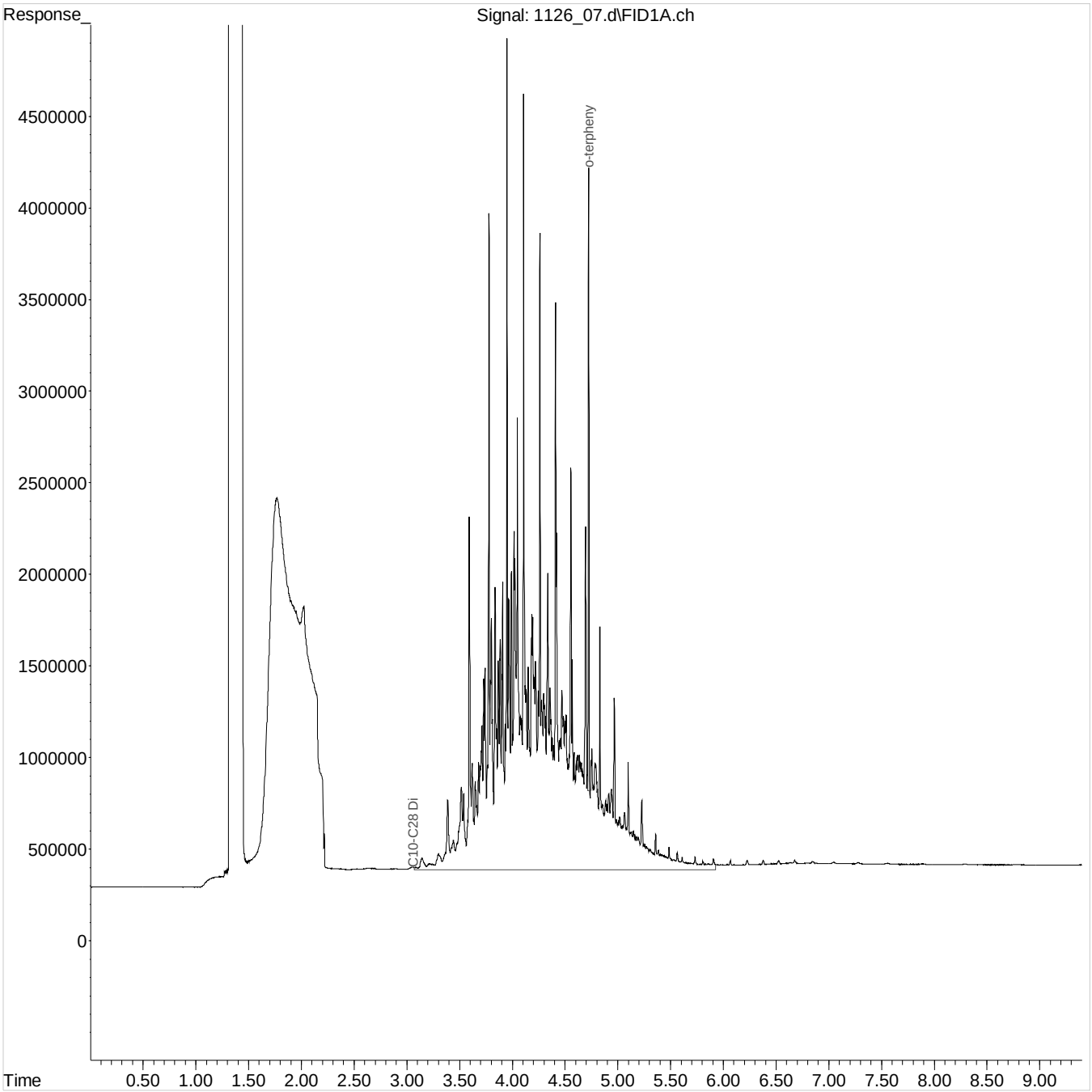
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\112614\
Data File : 1126 07.d
Signal(s) : FID1A.ch
Acq On : 26 Nov 2014 5:37 pm
Operator : 546
Sample : LCS 1x WG756714 40-2
Misc : water surr14G19448/spk14K11562
ALS Vial : 7 Sample Multiplier: 0.05

Integration File: events.e
Quant Time: Nov 28 10:38:34 2014
Quant Method : C:\msdchem\1\methods\LA31K28N.m
Quant Title :
QLast Update : Fri Nov 28 10:02:16 2014
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\112614\
Data File : 1126 08.d
Signal(s) : FID1A.ch
Acq On : 26 Nov 2014 5:54 pm
Operator : 546
Sample : LCSD 1x WG756714 40-2
Misc : water surr14G19448/spk14K11562
ALS Vial : 8 Sample Multiplier: 0.05

Integration File: events.e
Quant Time: Nov 28 10:38:58 2014
Quant Method : C:\msdchem\1\methods\LA31K28N.m
Quant Title :
QLast Update : Fri Nov 28 10:02:16 2014
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :

Compound	R.T.	Response	Conc	Units	
System Monitoring Compounds					
3) S o-terphenyl	4.72	15998046	0.0228893	ppm	m
Spiked Amount 0.0200 Range 50 - 150 Recovery = 114.45%					
Target Compounds					
1) H,M C10-C28 Diesel Range	3.07	791233949	1.5484593	ppm	
2) H,M C28-C40 Oil Range	5.93	21369823	N.D.	ppm	

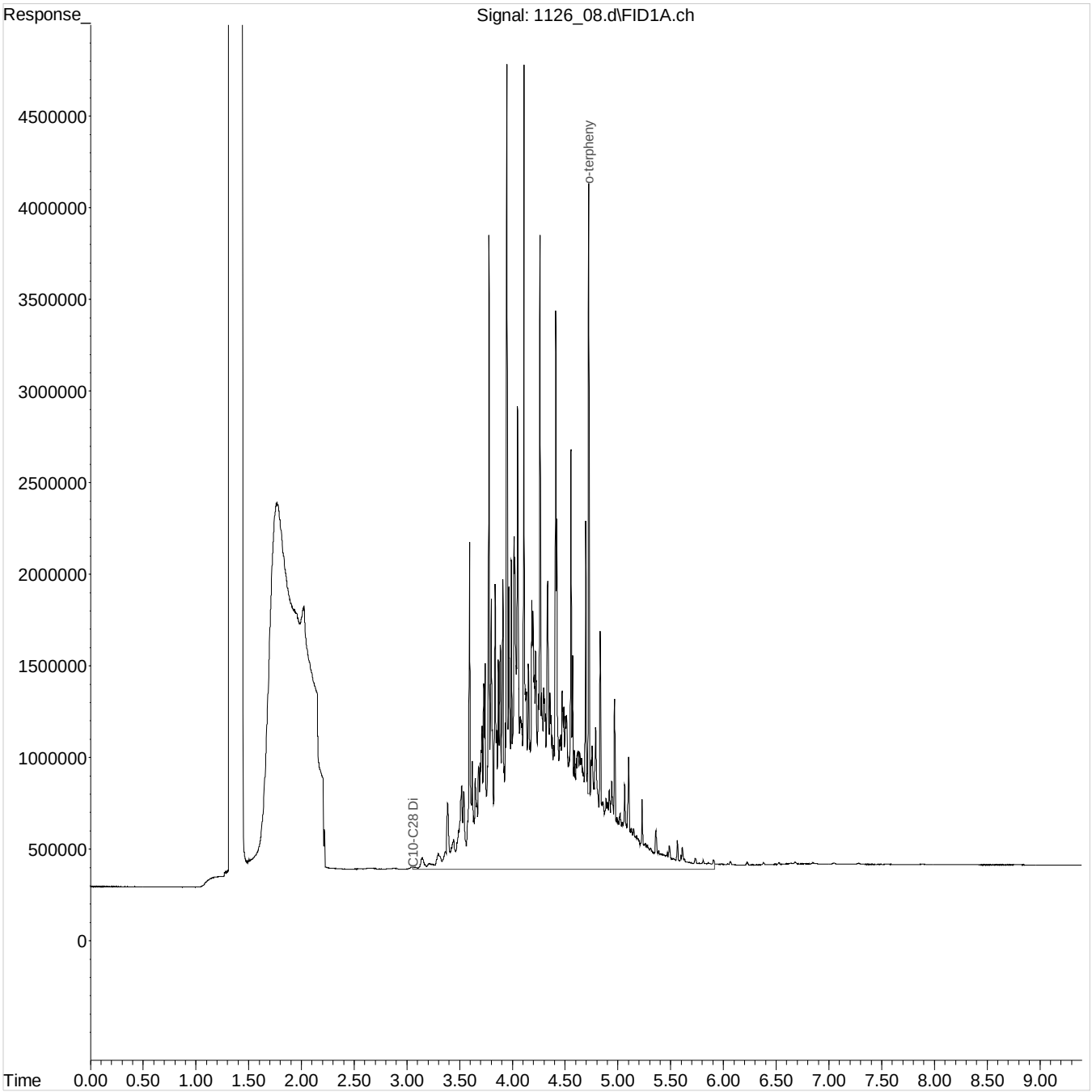
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\112614\
Data File : 1126 08.d
Signal(s) : FID1A.ch
Acq On : 26 Nov 2014 5:54 pm
Operator : 546
Sample : LCSD 1x WG756714 40-2
Misc : water surr14G19448/spk14K11562
ALS Vial : 8 Sample Multiplier: 0.05

Integration File: events.e
Quant Time: Nov 28 10:38:58 2014
Quant Method : C:\msdchem\1\methods\LA31K28N.m
Quant Title :
QLast Update : Fri Nov 28 10:02:16 2014
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\112614\
Data File : 1126 15.d
Signal(s) : FID1A.ch
Acq On : 26 Nov 2014 8:00 pm
Operator : 546
Sample : L735181-02 1x WG756714 40-2
Misc : water surr14G19448/spk14K11562
ALS Vial : 15 Sample Multiplier: 0.05

Integration File: events.e
Quant Time: Nov 28 10:42:27 2014
Quant Method : C:\msdchem\1\methods\LA31K28N.m
Quant Title :
QLast Update : Fri Nov 28 10:02:16 2014
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :

Compound	R.T.	Response	Conc	Units	
System Monitoring Compounds					
3) S o-terphenyl	4.72	14241962	0.0203768	ppm	m
Spiked Amount 0.0200 Range 50 - 150 Recovery = 101.88%					
Target Compounds					
1) H,M C10-C28 Diesel Range	3.07	295145935	0.5552994	ppm	
2) H,M C28-C40 Oil Range	5.93	52860329	0.0983451	ppm	

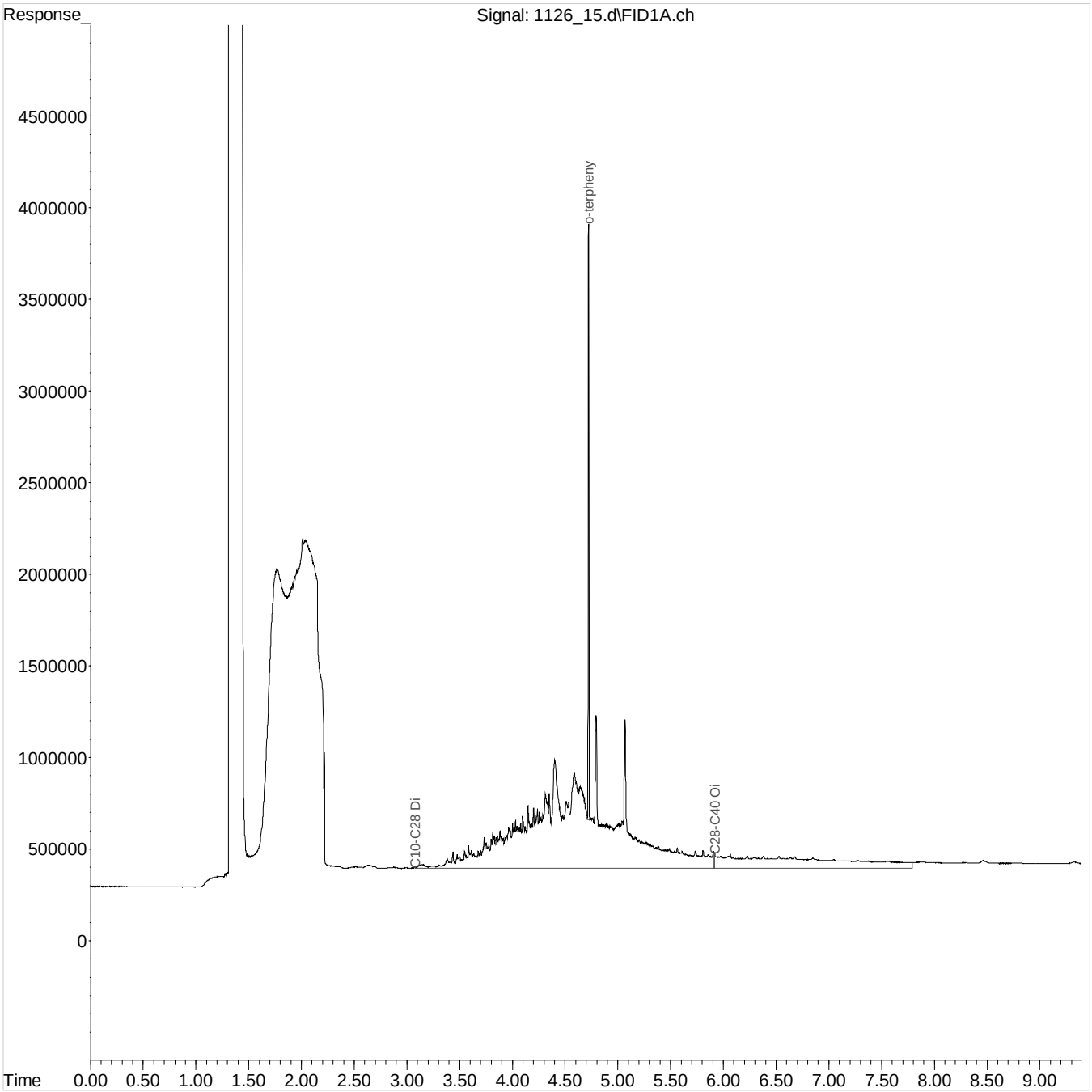
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\112614\
Data File : 1126 15.d
Signal(s) : FID1A.ch
Acq On : 26 Nov 2014 8:00 pm
Operator : 546
Sample : L735181-02 1x WG756714 40-2
Misc : water surr14G19448/spk14K11562
ALS Vial : 15 Sample Multiplier: 0.05

Integration File: events.e
Quant Time: Nov 28 10:42:27 2014
Quant Method : C:\msdchem\1\methods\LA31K28N.m
Quant Title :
QLast Update : Fri Nov 28 10:02:16 2014
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\112614\
Data File : 1126 16.d
Signal(s) : FID1A.ch
Acq On : 26 Nov 2014 8:18 pm
Operator : 546
Sample : L735181-05 1x WG756714 40-2
Misc : water surr14G19448/spk14K11562
ALS Vial : 16 Sample Multiplier: 0.05

Integration File: events.e
Quant Time: Nov 28 10:42:54 2014
Quant Method : C:\msdchem\1\methods\LA31K28N.m
Quant Title :
QLast Update : Fri Nov 28 10:02:16 2014
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :

Compound	R.T.	Response	Conc	Units	
System Monitoring Compounds					
3) S o-terphenyl	4.72	14260138	0.0204028	ppm	m
Spiked Amount 0.0200 Range 50 - 150 Recovery = 102.01%					
Target Compounds					
1) H,M C10-C28 Diesel Range	3.07	310272854	0.5855833	ppm	
2) H,M C28-C40 Oil Range	5.93	51065654	0.0911306	ppm	

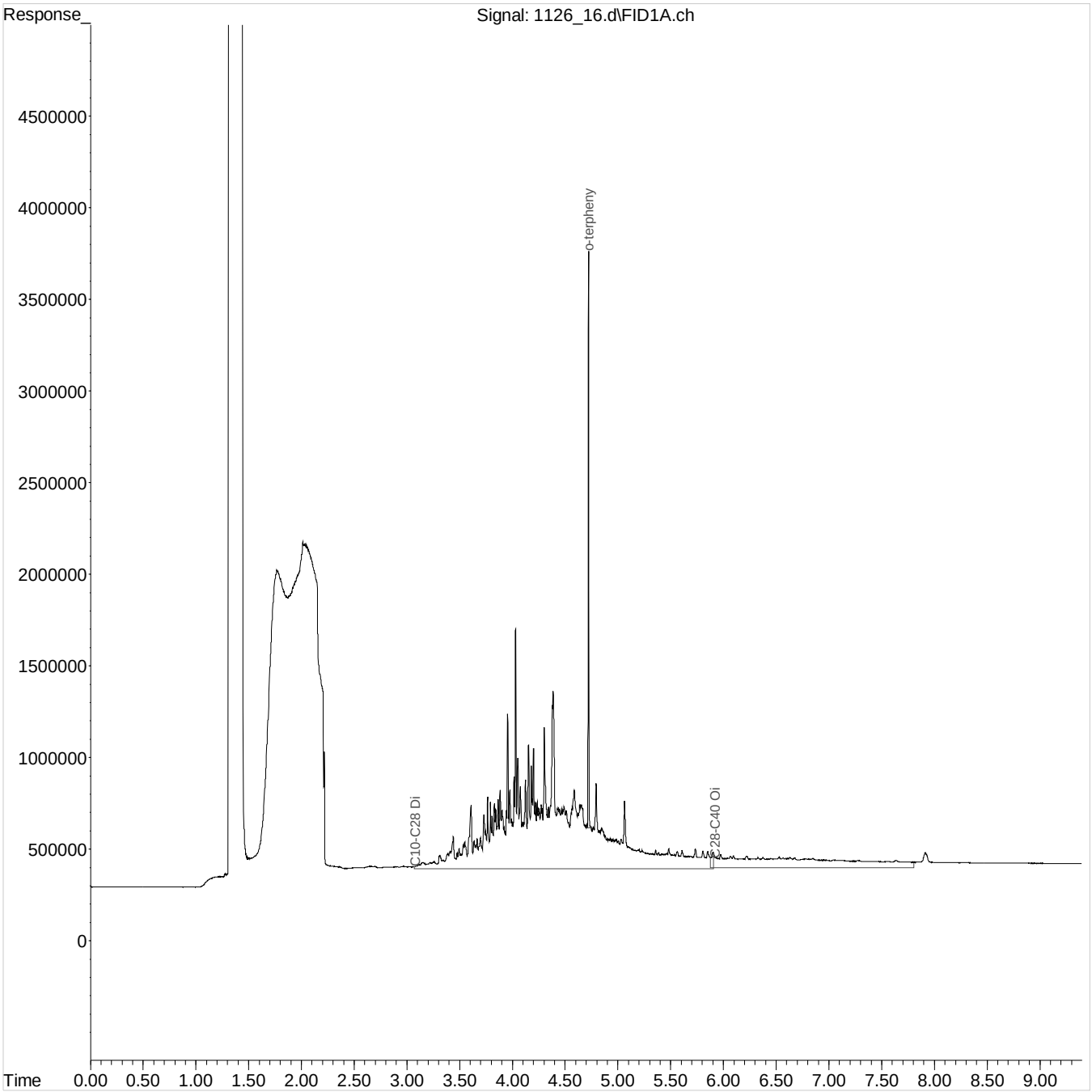
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\112614\
Data File : 1126 16.d
Signal(s) : FID1A.ch
Acq On : 26 Nov 2014 8:18 pm
Operator : 546
Sample : L735181-05 1x WG756714 40-2
Misc : water surr14G19448/spk14K11562
ALS Vial : 16 Sample Multiplier: 0.05

Integration File: events.e
Quant Time: Nov 28 10:42:54 2014
Quant Method : C:\msdchem\1\methods\LA31K28N.m
Quant Title :
QLast Update : Fri Nov 28 10:02:16 2014
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\112614\
Data File : 1126 17.d
Signal(s) : FID1A.ch
Acq On : 26 Nov 2014 8:36 pm
Operator : 546
Sample : L735181-07 1x WG756714 40-2
Misc : water surr14G19448/spk14K11562
ALS Vial : 17 Sample Multiplier: 0.05

Integration File: events.e
Quant Time: Nov 28 10:43:26 2014
Quant Method : C:\msdchem\1\methods\LA31K28N.m
Quant Title :
QLast Update : Fri Nov 28 10:02:16 2014
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
3) S o-terphenyl	4.72	14416990	0.0206272 ppm m
Spiked Amount 0.0200 Range 50 - 150 Recovery = 103.14%			
Target Compounds			
1) H,M C10-C28 Diesel Range	3.07	92667030	0.1499401 ppm
2) H,M C28-C40 Oil Range	5.93	42995885	0.0586907 ppm

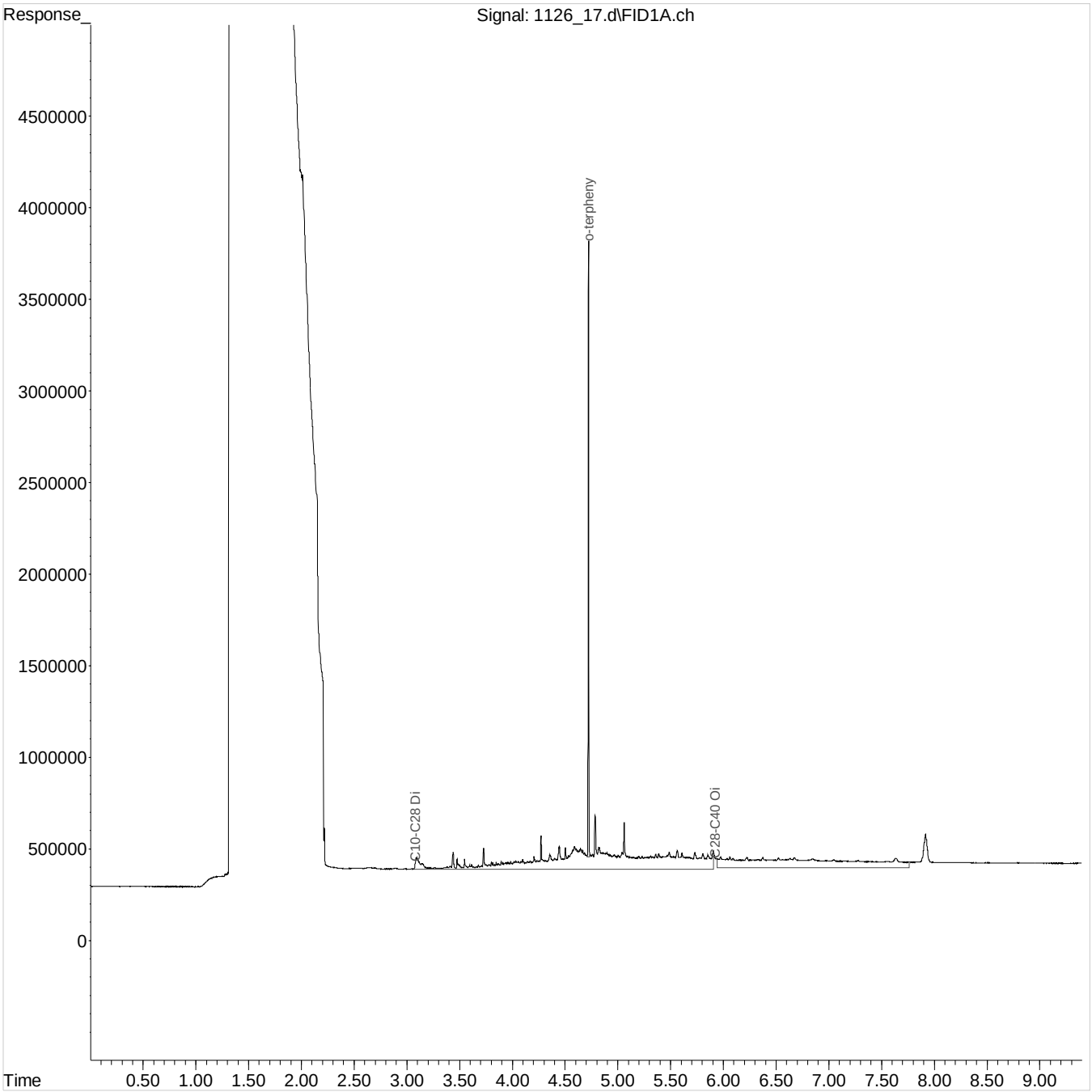
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\112614\
Data File : 1126 17.d
Signal(s) : FID1A.ch
Acq On : 26 Nov 2014 8:36 pm
Operator : 546
Sample : L735181-07 1x WG756714 40-2
Misc : water surr14G19448/spk14K11562
ALS Vial : 17 Sample Multiplier: 0.05

Integration File: events.e
Quant Time: Nov 28 10:43:26 2014
Quant Method : C:\msdchem\1\methods\LA31K28N.m
Quant Title :
QLast Update : Fri Nov 28 10:02:16 2014
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\112614\
Data File : 1126 18.d
Signal(s) : FID1A.ch
Acq On : 26 Nov 2014 8:55 pm
Operator : 546
Sample : L735181-10 1x WG756714 40-2
Misc : water surr14G19448/spk14K11562
ALS Vial : 18 Sample Multiplier: 0.05

Integration File: events.e
Quant Time: Nov 28 10:43:53 2014
Quant Method : C:\msdchem\1\methods\LA31K28N.m
Quant Title :
QLast Update : Fri Nov 28 10:02:16 2014
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :

Compound	R.T.	Response	Conc	Units
System Monitoring Compounds				
3) S o-terphenyl	4.72	14837135	0.0212283	ppm m
Spiked Amount 0.0200 Range 50 - 150 Recovery = 106.14%				
Target Compounds				
1) H,M C10-C28 Diesel Range	3.07	848102333	1.6623088	ppm
2) H,M C28-C40 Oil Range	5.93	100023243	0.2879370	ppm

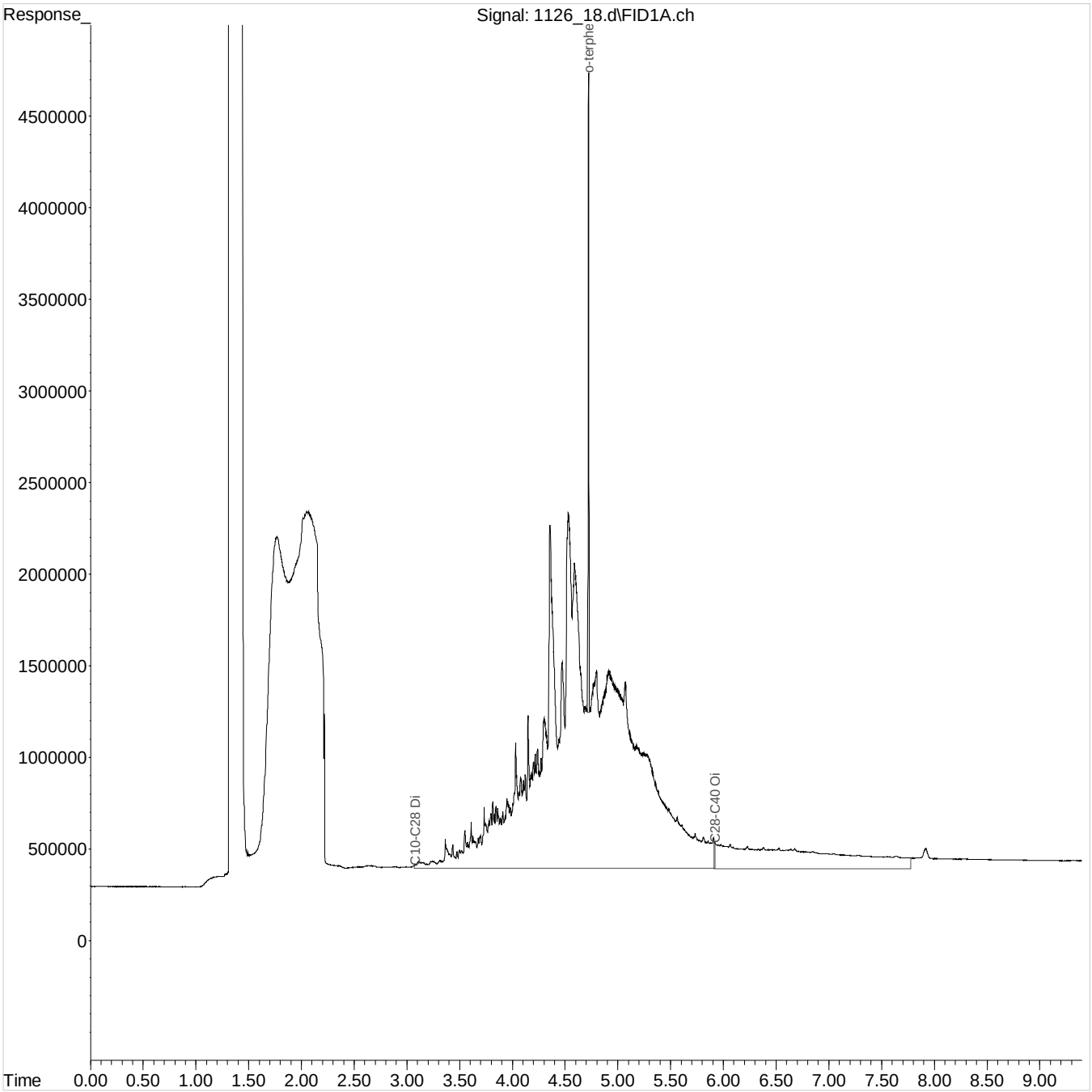
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\112614\
Data File : 1126 18.d
Signal(s) : FID1A.ch
Acq On : 26 Nov 2014 8:55 pm
Operator : 546
Sample : L735181-10 1x WG756714 40-2
Misc : water surr14G19448/spk14K11562
ALS Vial : 18 Sample Multiplier: 0.05

Integration File: events.e
Quant Time: Nov 28 10:43:53 2014
Quant Method : C:\msdchem\1\methods\LA31K28N.m
Quant Title :
QLast Update : Fri Nov 28 10:02:16 2014
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\112614\
Data File : 1126 27.d
Signal(s) : FID1A.ch
Acq On : 26 Nov 2014 11:37 pm
Operator : 546
Sample : CCV DRO 60 PPM 14K26349
Misc :
ALS Vial : 101 Sample Multiplier: 1

Integration File: events.e
Quant Time: Nov 28 10:48:04 2014
Quant Method : C:\msdchem\1\methods\LA31K28N.m
Quant Title :
QLast Update : Fri Nov 28 10:02:16 2014
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :

Compound	R.T.	Response	Conc	Units
System Monitoring Compounds				
3) S o-terphenyl	4.72	13966356	0.3996489	ppm m
Spiked Amount 0.0200 Range 50 - 150 Recovery = 1998.24%#				
Target Compounds				
1) H,M C10-C28 Diesel Range	3.07	1608017461	63.6729208	ppm
2) H,M C28-C40 Oil Range	5.93	29125021	0.0586139	ppm

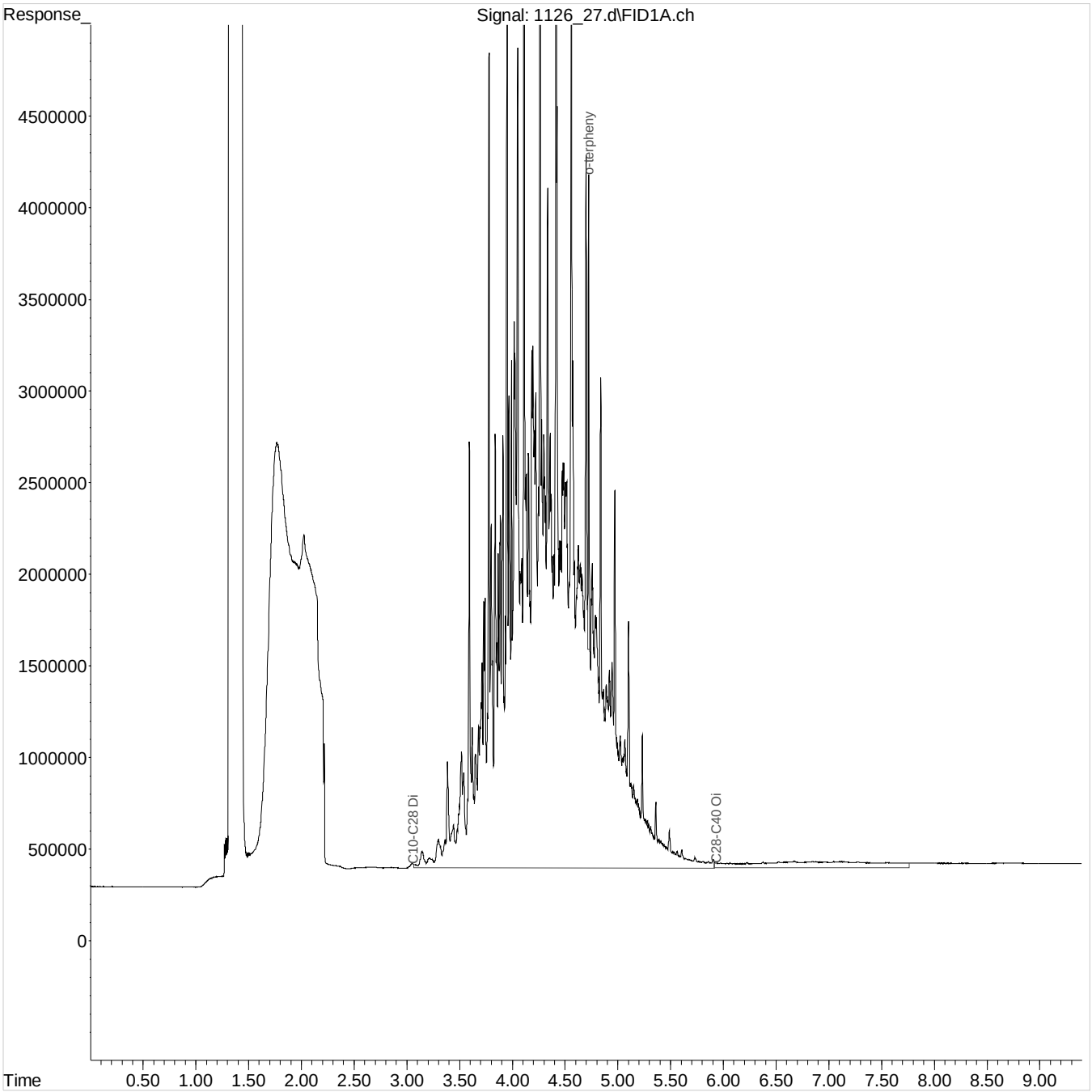
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\112614\
Data File : 1126 27.d
Signal(s) : FID1A.ch
Acq On : 26 Nov 2014 11:37 pm
Operator : 546
Sample : CCV DRO 60 PPM 14K26349
Misc :
ALS Vial : 101 Sample Multiplier: 1

Integration File: events.e
Quant Time: Nov 28 10:48:04 2014
Quant Method : C:\msdchem\1\methods\LA31K28N.m
Quant Title :
QLast Update : Fri Nov 28 10:02:16 2014
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\112614\
Data File : 1126 28.d
Signal(s) : FID1A.ch
Acq On : 26 Nov 2014 11:54 pm
Operator : 546
Sample : CCV 10W30 40M PPM 14KJ24536
Misc :
ALS Vial : 102 Sample Multiplier: 1

Integration File: events.e
Quant Time: Nov 28 10:53:01 2014
Quant Method : C:\msdchem\1\methods\LA31K28N.m
Quant Title :
QLast Update : Fri Nov 28 10:02:16 2014
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :

Compound	R.T.	Response	Conc	Units
System Monitoring Compounds				
3) S o-terphenyl	0.00	0	N.D.	ppm d
Spiked Amount 0.0200 Range 50 - 150 Recovery = 0.00%#				
Target Compounds				
1) H,M C10-C28 Diesel Range	3.07	613033942	23.8341173	ppm
2) H,M C28-C40 Oil Range	5.93	538883428	41.0425411	ppm

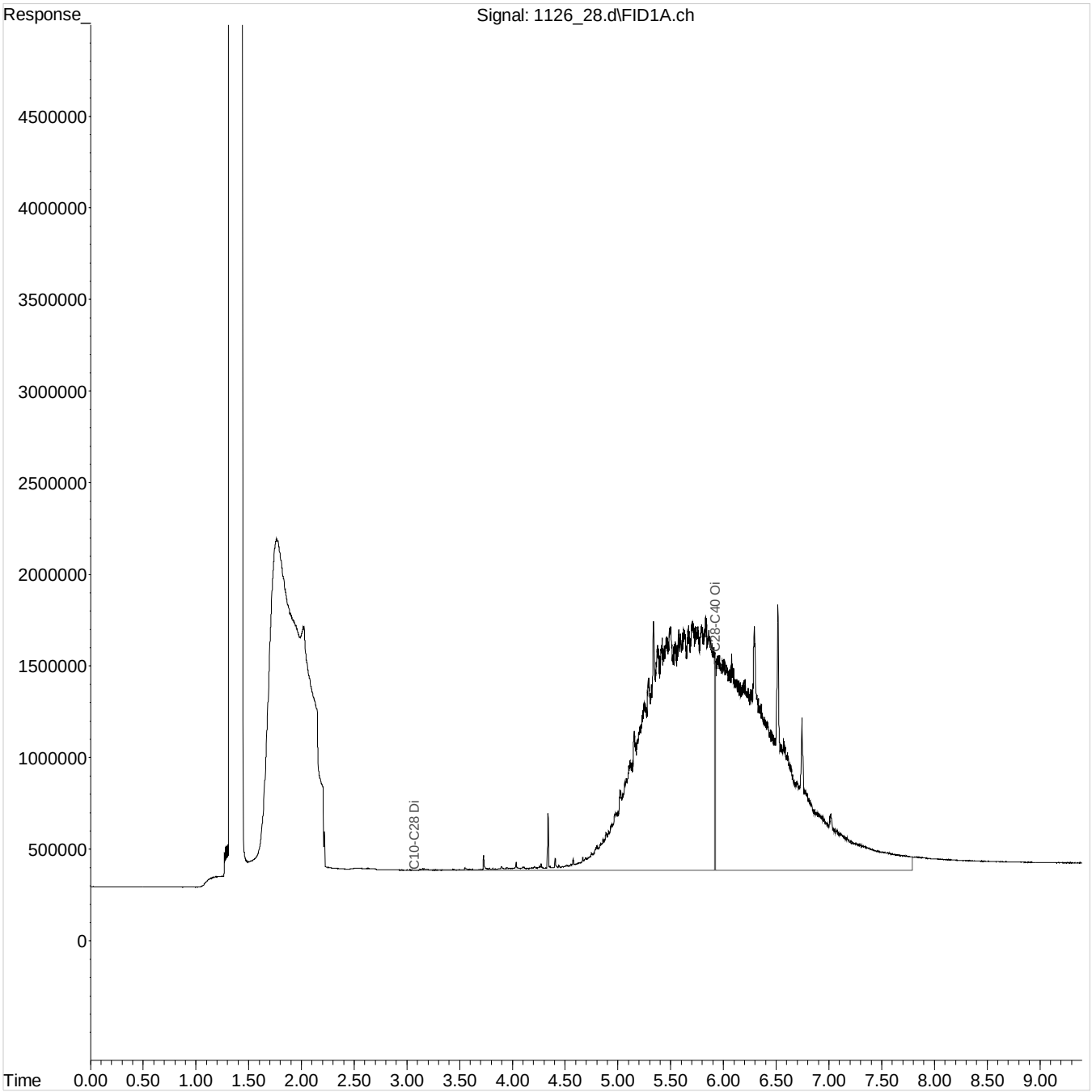
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\112614\
Data File : 1126 28.d
Signal(s) : FID1A.ch
Acq On : 26 Nov 2014 11:54 pm
Operator : 546
Sample : CCV 10W30 40M PPM 14KJ24536
Misc :
ALS Vial : 102 Sample Multiplier: 1

Integration File: events.e
Quant Time: Nov 28 10:53:01 2014
Quant Method : C:\msdchem\1\methods\LA31K28N.m
Quant Title :
QLast Update : Fri Nov 28 10:02:16 2014
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\112614\
Data File : 1126 41.d
Signal(s) : FID1A.ch
Acq On : 27 Nov 2014 5:52 am
Operator : 546
Sample : CCV DRO 60 PPM 14K26349
Misc :
ALS Vial : 103 Sample Multiplier: 1

Integration File: events.e
Quant Time: Dec 02 10:20:24 2014
Quant Method : C:\msdchem\1\methods\LA31K28N.m
Quant Title :
QLast Update : Fri Nov 28 10:02:16 2014
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :

Compound	R.T.	Response	Conc	Units	
System Monitoring Compounds					
3) S o-terphenyl	4.72	15643559	0.4476423	ppm	m
Spiked Amount 0.0200 Range 50 - 150 Recovery = 2238.21%#					
Target Compounds					
1) H,M C10-C28 Diesel Range	3.07	1909849685	75.7581810	ppm	
2) H,M C28-C40 Oil Range	0.00	0	N.D.	ppm	

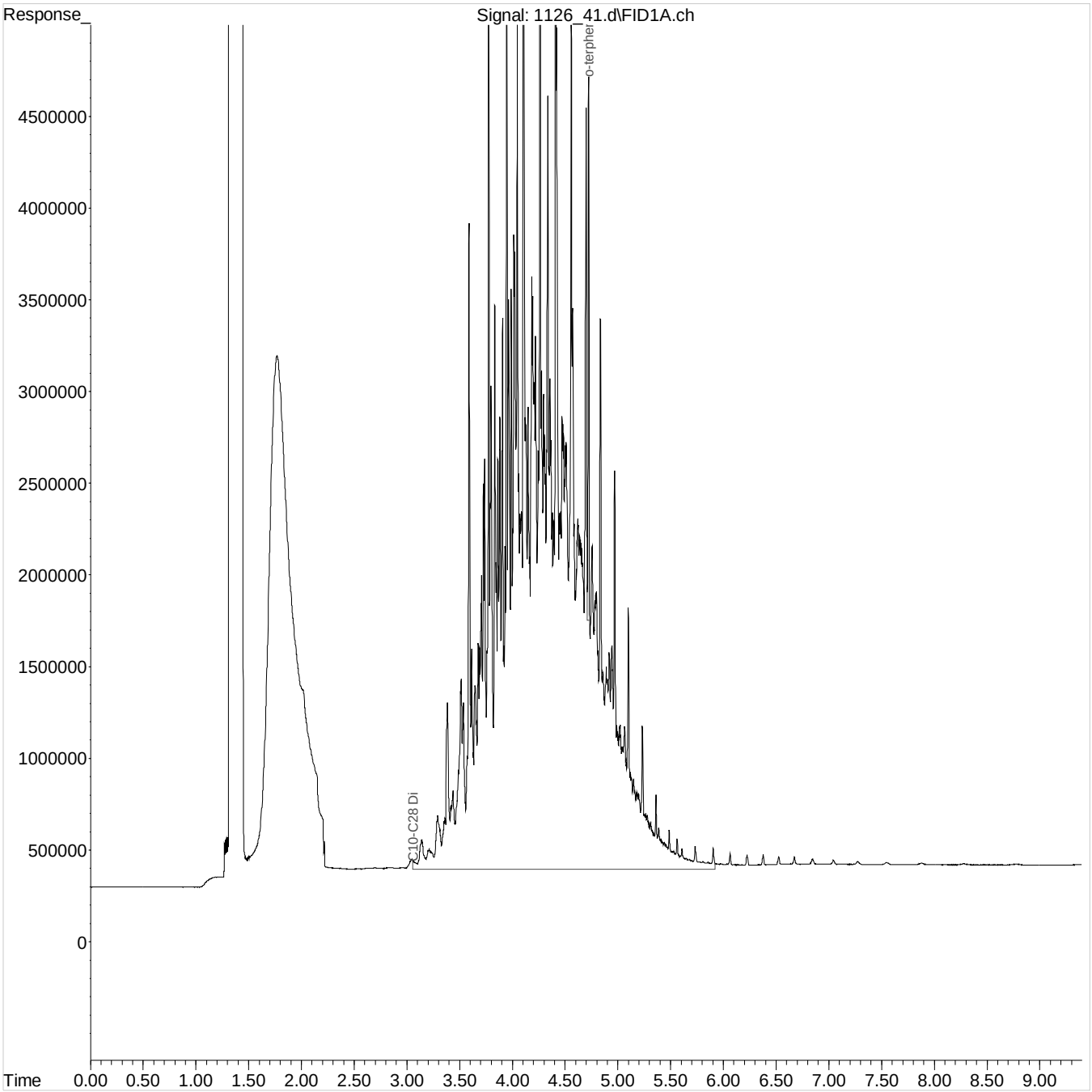
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\112614\
Data File : 1126 41.d
Signal(s) : FID1A.ch
Acq On : 27 Nov 2014 5:52 am
Operator : 546
Sample : CCV DRO 60 PPM 14K26349
Misc :
ALS Vial : 103 Sample Multiplier: 1

Integration File: events.e
Quant Time: Dec 02 10:20:24 2014
Quant Method : C:\msdchem\1\methods\LA31K28N.m
Quant Title :
QLast Update : Fri Nov 28 10:02:16 2014
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\112614\
Data File : 1126 42.d
Signal(s) : FID1A.ch
Acq On : 27 Nov 2014 6:15 am
Operator : 546
Sample : CCV 10W30 40M PPM 14KJ24536
Misc :
ALS Vial : 104 Sample Multiplier: 1

Integration File: events.e
Quant Time: Nov 28 10:49:57 2014
Quant Method : C:\msdchem\1\methods\LA31K28N.m
Quant Title :
QLast Update : Fri Nov 28 10:02:16 2014
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :

Compound	R.T.	Response	Conc	Units
System Monitoring Compounds				
3) S o-terphenyl	0.00	0	N.D.	ppm d
Spiked Amount 0.0200 Range 50 - 150 Recovery = 0.00%#				
Target Compounds				
1) H,M C10-C28 Diesel Range	3.07	587273412	22.8026743	ppm
2) H,M C28-C40 Oil Range	5.93	481528547	36.4312816	ppm

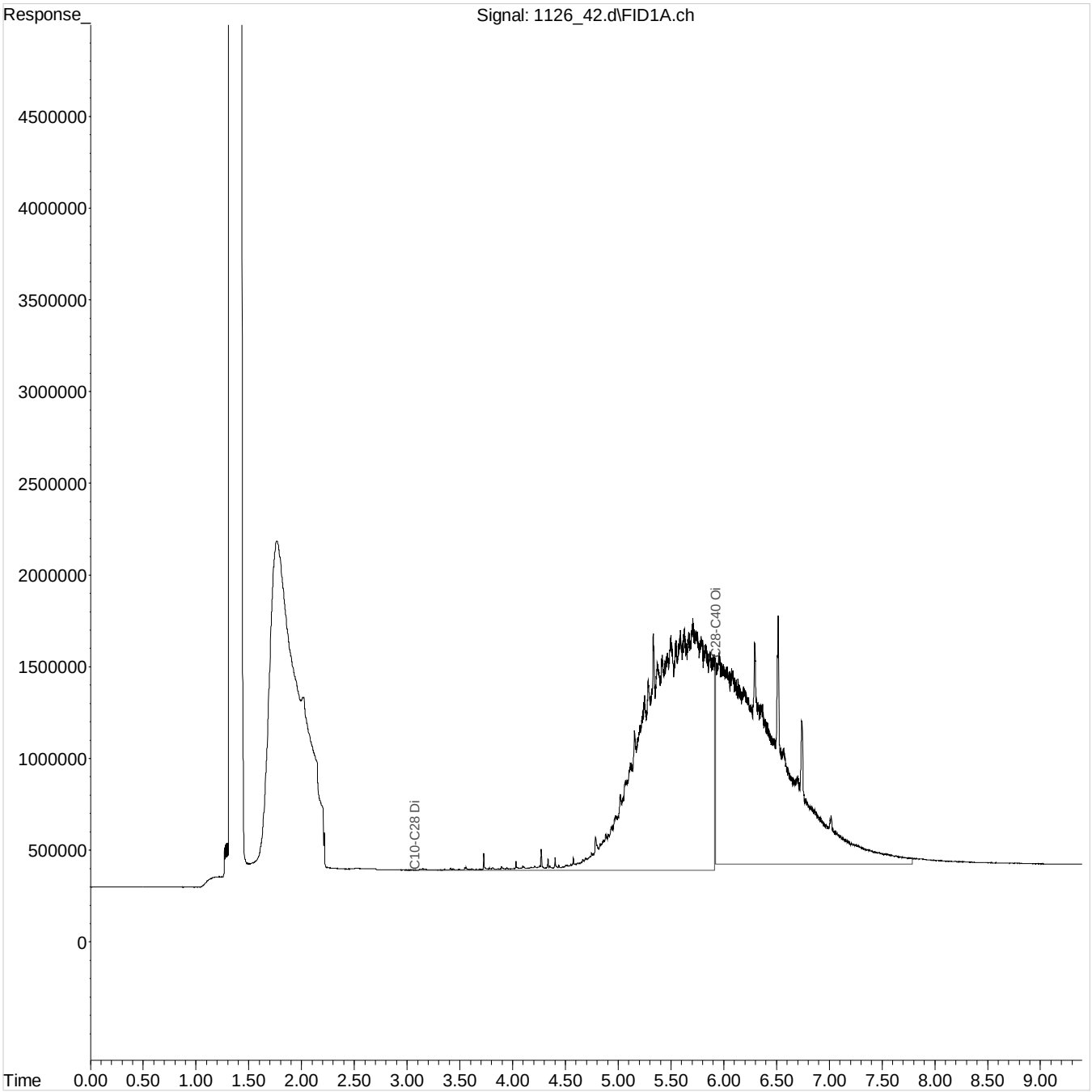
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\112614\
Data File : 1126 42.d
Signal(s) : FID1A.ch
Acq On : 27 Nov 2014 6:15 am
Operator : 546
Sample : CCV 10W30 40M PPM 14KJ24536
Misc :
ALS Vial : 104 Sample Multiplier: 1

Integration File: events.e
Quant Time: Nov 28 10:49:57 2014
Quant Method : C:\msdchem\1\methods\LA31K28N.m
Quant Title :
QLast Update : Fri Nov 28 10:02:16 2014
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :



Environmental Science Corporation
12065 Lebanon Rd., Mt. Juliet, TN 37122

Injection Log

Instrument ID : SVGC31
Computer Name : SVCOMPBA

Released By : Jared N. Starkey
Date Released : 12/3/2014 10:40:46 AM

Run ID : 112614
Signature : _____

#	File ID	Sample ID	Method	WG	Product	Matrix	Account #	State	Dil.	Mult.	Injected	Misc.
1	1126_01	INSTBLK	LA31K28N						1	1	11/26/14 1549	" "
2	1126_02	LOC FL 68 PPM 14K18894	LA31K28N						1	1	11/26/14 1606	" "
3	1126_03	ICV DRO 60 PPM 14K26349	LA31K28N						1	1	11/26/14 1624	" "
4	1126_04	ICV 10W30 40M PPM 14KJ24536	LA31K28N						1	1	11/26/14 1642	" "
5	1126_05	MECL2	LA31K28N						1	1	11/26/14 1700	" "
6	1126_06	BLANK	LA31K28N	WG756714	DROOROLVI	GW			1	0.05	11/26/14 1719	"water surr14G19448/spk14K11562"
7	1126_07	LCS	LA31K28N	WG756714	DROOROLVI	GW			1	0.05	11/26/14 1737	"water surr14G19448/spk14K11562"
8	1126_08	LCSD	LA31K28N	WG756714	DROOROLVI	GW			1	0.05	11/26/14 1754	"water surr14G19448/spk14K11562"
9	1126_09	BLANK	LA31K28N	WG756528	DROOROLVI	GW			1	0.05	11/26/14 1812	"water surr14G19448/spk14J28699"
10	1126_10	LCS	LA31K28N	WG756528	DROOROLVI	GW			1	0.05	11/26/14 1830	"water surr14G19448/spk14J28699"
11	1126_11	LCSD	LA31K28N	WG756528	DROOROLVI	GW			1	0.05	11/26/14 1848	"water surr14G19448/spk14J28699"
12	1126_12	BLANK	LA31K28N	WG755915	DROOROLVI	GW			1	0.05	11/26/14 1906	"water surr14G19448/spk14K11562"
13	1126_13	LCS	LA31K28N	WG755915	DROOROLVI	GW			1	0.05	11/26/14 1924	"water surr14G19448/spk14K11562"
14	1126_14	LCSD	LA31K28N	WG755915	DROOROLVI	GW			1	0.05	11/26/14 1942	"water surr14G19448/spk14K11562"
15	1126_15	L735181-02	LA31K28N	WG756714	DROOROLVI	GW	URSTAZ	AZ	1	0.05	11/26/14 2000	"water surr14G19448/spk14K11562"
16	1126_16	L735181-05	LA31K28N	WG756714	DROOROLVI	GW	URSTAZ	AZ	1	0.05	11/26/14 2018	"water surr14G19448/spk14K11562"
17	1126_17	L735181-07	LA31K28N	WG756714	DROOROLVI	GW	URSTAZ	AZ	1	0.05	11/26/14 2036	"water surr14G19448/spk14K11562"
18	1126_18	L735181-10	LA31K28N	WG756714	DROOROLVI	GW	URSTAZ	AZ	1	0.05	11/26/14 2055	"water surr14G19448/spk14K11562"
19	1126_19	L734231-14	LA31K28N	WG756528	DROOROLVI	GW	URSTAZ	AZ	1	0.05	11/26/14 2113	"water surr14G19448/spk14J28699"
20	1126_20	L734231-17	LA31K28N	WG756528	DROOROLVI	GW	URSTAZ	AZ	1	0.05	11/26/14 2131	"water surr14G19448/spk14J28699"
21	1126_21	L734231-22	LA31K28N	WG756528	DROOROLVI	GW	URSTAZ	AZ	1	0.05	11/26/14 2149	"water surr14G19448/spk14J28699"

Environmental Science Corporation
12065 Lebanon Rd., Mt. Juliet, TN 37122

Injection Log

Instrument ID : SVGC31
Computer Name : SVCOMPBA
Released By : Jared N. Starkey
Date Released : 12/3/2014 10:40:46 AM
Run ID : 112614
Signature : _____

#	File ID	Sample ID	Method	WG	Product	Matrix	Account #	State	Dil.	Mult.	Injected	Misc.
22	1126_22	L734231-25	LA31K28N	WG756528	DROOROLVI	GW	URSTAZ	AZ	1	0.05	11/26/14 2207	"water surr14G19448/spk14J28699"
23	1126_23	DNRL735181-10	LA31K28N	WG756528					1	0.05	11/26/14 2225	"water surr14G19448/spk14J28699"
24	1126_24	L735318-03	LA31K28N	WG756528	DROOROLVI	GW	URSTAZ	AZ	1	0.05	11/26/14 2243	"water surr14G19448/spk14J28699"
25	1126_25	INSTBLK	LA31K28N						1	1	11/26/14 2301	" "
26	1126_26	INSTBLK	LA31K28N						1	1	11/26/14 2319	" "
27	1126_27	CCV DRO 60 PPM 14K26349	LA31K28N						1	1	11/26/14 2337	" "
28	1126_28	CCV 10W30 40M PPM 14KJ24536	LA31K28N						1	1	11/26/14 2354	" "
29	1126_29	MECL2	LA31K28N						1	1	11/27/14 0012	" "
30	1126_30	L735318-04	LA31K28N	WG756528	DROOROLVI	GW	URSTAZ	AZ	1	0.05	11/27/14 0030	"water surr14G19448/spk14J28699"
31	1126_31	L734718-11	LA31K28N	WG755915	DROOROLVI	GW	URSTAZ	AZ	1	0.05	11/27/14 0049	"water surr14G19448/spk14K11562"
32	1126_32	L734718-12	LA31K28N	WG755915	DROOROLVI	GW	URSTAZ	AZ	1	0.05	11/27/14 0107	"water surr14G19448/spk14K11562"
33	1126_33	L734718-13	LA31K28N	WG755915	DROOROLVI	GW	URSTAZ	AZ	1	0.05	11/27/14 0125	"water surr14G19448/spk14K11562"
34	1126_34	L734718-14	LA31K28N	WG755915	DROOROLVI	GW	URSTAZ	AZ	1	0.05	11/27/14 0144	"water surr14G19448/spk14K11562"
35	1126_35	L734810-03	LA31K28N	WG755915	DROOROLVI	GW	URSTAZ	AZ	1	0.05	11/27/14 0203	"water surr14G19448/spk14K11562"
36	1126_36	L734810-05	LA31K28N	WG755915	DROOROLVI	GW	URSTAZ	AZ	1	0.05	11/27/14 0222	"water surr14G19448/spk14K11562"
37	1126_37	L734810-07	LA31K28N	WG755915	DROOROLVI	GW	URSTAZ	AZ	1	0.05	11/27/14 0243	"water surr14G19448/spk14K11562"
38	1126_38	L734810-09	LA31K28N	WG755915	DROOROLVI	GW	URSTAZ	AZ	1	0.05	11/27/14 0428	"water surr14G19448/spk14K11562"
39	1126_39	INSTBLK	LA31K28N						1	1	11/27/14 0457	" "
40	1126_40	INSTBLK	LA31K28N						1	1	11/27/14 0524	" "
41	1126_41	CCV DRO 60 PPM 14K26349	LA31K28N						1	1	11/27/14 0552	" "

Environmental Science Corporation
12065 Lebanon Rd., Mt. Juliet, TN 37122

Injection Log

Instrument ID : SVGC31
Computer Name : SVCOMPBA
Released By : Jared N. Starkey
Date Released : 12/3/2014 10:40:46 AM
Run ID : 112614
Signature : _____

#	File ID	Sample ID	Method	WG	Product	Matrix	Account #	State	Dil.	Mult.	Injected	Misc.
42	1126_42	CCV 10W30 40M PPM 14KJ24536	LA31K28N						1	1	11/27/14 0615	" "
43	1126_43	LOC FL 68 PPM 14K18894	EP31K25N						1	1	11/27/14 0636	" "
44	1126_44	CCV EPH 80 PPM 14K24239	EP31K25N						1	1	11/27/14 0656	" "
44	1126_44-1	CCV EPH 80 PPM 14K24239	EP31K25N						1	1	11/27/14 0656	" "
45	1126_45	EPHJF STD 40 PPM 14I23928	EP31K25N						1	1	11/27/14 0716	" "
46	1126_46	MECL2	EP31K25N						1	1	11/27/14 0736	" "
47	1126_47	L734985-01	EP31K25N	WG756529					1	0.05	11/27/14 0756	"water surr14G19448/spk14K11562"
48	1126_48	L734985-02	EP31K25N	WG756529					1	0.05	11/27/14 0815	"water surr14G19448/spk14K11562"
49	1126_49	L734984-11	EP31K25N	WG756529	EPHJFLVI	GW	ENVCOCMCA	AZ	1	0.05	11/27/14 0834	"water surr14G19448/spk14K11562"
50	1126_50	L734984-12	EP31K25N	WG756529	EPHJFLVI	GW	ENVCOCMCA	AZ	1	0.05	11/27/14 0853	"water surr14G19448/spk14K11562"
51	1126_51	L735387-08	EP31K25N	WG756531	DROOROLVI	GW	ARCADHTX	TX	1	0.05	11/27/14 0912	"water surr14G19448/spk14K11562"
52	1126_52	L735385-03	EP31K25N	WG756537	DROWYLVI	GW	DELTAUT	WY	1	0.05	11/27/14 0931	"water surr14G19448/spk14K11562"
53	1126_53	L735385-04	EP31K25N	WG756537	DROWYLVI	GW	DELTAUT	WY	1	0.05	11/27/14 0950	"water surr14G19448/spk14K11562"
54	1126_54	L735385-05	EP31K25N	WG756537	DROWYLVI	GW	DELTAUT	WY	1	0.05	11/27/14 1009	"water surr14G19448/spk14K11562"
55	1126_55	L735399-01	EP31K25N	WG756537	DROWYLVI	GW	DELTAUT	WY	1	0.05	11/27/14 1027	"water surr14G19448/spk14K11562"
56	1126_56	L735399-02	EP31K25N	WG756537	DROWYLVI	GW	DELTAUT	WY	1	0.05	11/27/14 1046	"water surr14G19448/spk14K11562"
57	1126_57	INSTBLK	EP31K25N						1	1	11/27/14 1105	" "
58	1126_58	INSTBLK	EP31K25N						1	1	11/27/14 1123	" "
59	1126_59	CCV EPH 80 PPM 14K24239	EP31K25N						1	1	11/27/14 1142	" "

Environmental Science Corporation
12065 Lebanon Rd., Mt. Juliet, TN 37122

Injection Log

Instrument ID : SVGC31
Computer Name : SVCOMPBA
Released By : Jared N. Starkey
Date Released : 12/3/2014 10:40:46 AM
Run ID : 112614
Signature : _____

#	File ID	Sample ID	Method	WG	Product	Matrix	Account #	State	Dil.	Mult.	Injected	Misc.
59	1126_59-1	CCV EPH 80 PPM 14K24239	EP31K25N						1	1	11/27/14 1142	" "
60	1126_60	MECL2	EP31K25N						1	1	11/27/14 1200	" "
61	1126_61	L735380-11	EP31K25N	WG756391	DROWYLVI	GW	DELTAUT	WY	1	0.05	11/27/14 1218	"water surr14G19448/spk14K11562"
62	1126_62	L735380-12	EP31K25N	WG756391	DROWYLVI	GW	DELTAUT	WY	1	0.05	11/27/14 1236	"water surr14G19448/spk14K11562"
63	1126_63	L735291-07	EP31K25N	WG756301	DROWYLVI	GW	DELTAUT	WY	1	0.05	11/27/14 1255	"water surr14G19448/spk14K11562"
64	1126_64	L735291-08	EP31K25N	WG756301	DROWYLVI	GW	DELTAUT	WY	1	0.05	11/27/14 1313	"water surr14G19448/spk14K11562"
65	1126_65	L735291-09	EP31K25N	WG756301	DROWYLVI	GW	DELTAUT	WY	1	0.05	11/27/14 1331	"water surr14G19448/spk14K11562"
66	1126_66	L735320-01	EP31K25N	WG756301	DROWYLVI	GW	DELTAUT	WY	1	0.05	11/27/14 1349	"water surr14G19448/spk14K11562"
67	1126_67	L735321-01	EP31K25N	WG756301	DROWYLVI	GW	DELTAUT	WY	1	0.05	11/27/14 1407	"water surr14G19448/spk14K11562"
68	1126_68	L735321-02	EP31K25N	WG756301	DROWYLVI	GW	DELTAUT	WY	1	0.05	11/27/14 1426	"water surr14G19448/spk14K11562"
69	1126_69	L735321-03	EP31K25N	WG756301	DROWYLVI	GW	DELTAUT	WY	1	0.05	11/27/14 1444	"water surr14G19448/spk14K11562"
70	1126_70	L735321-04	EP31K25N	WG756301	DROWYLVI	GW	DELTAUT	WY	1	0.05	11/27/14 1502	"water surr14G19448/spk14K11562"
71	1126_71	INSTBLK	EP31K25N						1	1	11/27/14 1520	" "
72	1126_72	INSTBLK	EP31K25N						1	1	11/27/14 1538	" "
73	1126_73	CCV EPH 80 PPM 14K24239	EP31K25N						1	1	11/27/14 1556	" "
73	1126_73-1	CCV EPH 80 PPM 14K24239	EP31K25N						1	1	11/27/14 1556	" "
74	1126_74	LOC FL 68 PPM 14K18894	EP31K25N						1	1	11/27/14 1614	" "
75	1126_75	CCV EPH 80 PPM 14K24239	EP31K25N						1	1	11/27/14 1632	" "
75	1126_75-1	CCV EPH 80 PPM 14K24239	EP31K25N						1	1	11/27/14 1632	" "

Environmental Science Corporation
12065 Lebanon Rd., Mt. Juliet, TN 37122

Injection Log

Instrument ID : SVGC31
Computer Name : SVCOMPBA
Released By : Jared N. Starkey
Date Released : 12/3/2014 10:40:46 AM
Run ID : 112614
Signature : _____

#	File ID	Sample ID	Method	WG	Product	Matrix	Account #	State	Dil.	Mult.	Injected	Misc.
76	1126_76	MECL2	EP31K25N						1	1	11/27/14 1650	" "
77	1126_77	L734749-02	EP31K25N	WG755909	DROWYLVI	GW	DELTAUT	WY	5	0.25	11/27/14 1708	"water surr14G19448/spk14K11562"
78	1126_78	L734750-03	EP31K25N	WG755909	DROWYLVI	GW	DELTAUT	WY	5	0.25	11/27/14 1726	"water surr14G19448/spk14K11562"
79	1126_79	L734753-03	EP31K25N	WG755909	DROWYLVI	GW	DELTAUT	WY	5	0.25	11/27/14 1744	"water surr14G19448/spk14K11562"
80	1126_80	L735282-01	EP31K25N	WG756391	DROWYLVI	GW	DELTAUT	WY	5	0.25	11/27/14 1801	"water surr14G19448/spk14K11562"
81	1126_81	L734749-01	EP31K25N	WG755909	DROWYLVI	GW	DELTAUT	WY	20	1	11/27/14 1819	"water surr14G19448/spk14K11562"
82	1126_82	L734750-01	EP31K25N	WG755909	DROWYLVI	GW	DELTAUT	WY	20	1	11/27/14 1837	"water surr14G19448/spk14K11562"
83	1126_83	L734753-01	EP31K25N	WG755909	DROWYLVI	GW	DELTAUT	WY	20	1	11/27/14 1855	"water surr14G19448/spk14K11562"
84	1126_84	L735271-01	EP31K25N	WG755909	DROWYLVI	GW	DELTAUT	WY	20	1	11/27/14 1913	"water surr14G19448/spk14K11562"
85	1126_85	L735282-02	EP31K25N	WG756391	DROWYLVI	GW	DELTAUT	WY	20	1	11/27/14 1931	"water surr14G19448/spk14K11562"
86	1126_86	L735282-03	EP31K25N	WG756391	DROWYLVI	GW	DELTAUT	WY	20	1	11/27/14 1948	"water surr14G19448/spk14K11562"
87	1126_87	INSTBLK	EP31K25N						1	1	11/27/14 2006	" "
88	1126_88	INSTBLK	EP31K25N						1	1	11/27/14 2024	" "
89	1126_89	CCV EPH 80 PPM 14K24239	EP31K25N						1	1	11/27/14 2042	" "

Calibration

Instrument: SVGC31
Method: LA31K28N

Initial Calibration Run Log

File ID	Level ID	Date Analyzed
0513A_03.d	2	5/13/2014 10:09:00 AM
0513A_04.d	4	5/13/2014 10:29:00 AM
0513A_05.d	10	5/13/2014 10:49:00 AM
0513A_06.d	20	5/13/2014 11:09:00 AM
0513A_09.d	40	5/13/2014 12:09:00 PM
0513A_08.d	60	5/13/2014 11:49:00 AM
0513A_10.d	100	5/13/2014 12:28:00 PM
0513A_11.d	200	5/13/2014 12:47:00 PM
1023_27.d	1M	10/23/2014 7:38:00 PM
1023_28.d	2M	10/23/2014 7:56:00 PM
1023_29.d	4M	10/23/2014 8:14:00 PM
1023_30.d	10M	10/23/2014 8:32:00 PM
1023_31.d	20M	10/23/2014 8:50:00 PM
1023_32.d	40M	10/23/2014 9:08:00 PM
1023_33.d	50M	10/23/2014 9:26:00 PM
1023_34.d	100M	10/23/2014 9:44:00 PM

Environmental Science Corporation
12065 Lebanon Rd., Mt. Juliet, TN 37122

Injection Log

Instrument ID : SVGC31
Computer Name : SVCOMPBA
Released By : Jared N. Starkey
Date Released : 11/28/2014 10:24:21 AM
Run ID : 102314
Signature : _____

#	File ID	Sample ID	Method	WG	Product	Matrix	Account #	State	Dil.	Mult.	Injected	Misc.
1	0513A_02	LOC FL 68 PPM 14E05008	LA31J23N						1	1	05/13/14 0949	" "
2	0513A_03	STD DRO 2 PPM 14D09595	LA31J23N						1	1	05/13/14 1009	" "
3	0513A_04	STD DRO 4 PPM 14D09595	LA31J23N						1	1	05/13/14 1029	" "
4	0513A_05	STD DRO 10 PPM 14D09595	LA31J23N						1	1	05/13/14 1049	" "
5	0513A_06	STD DRO 20 PPM 14D09595	LA31J23N						1	1	05/13/14 1109	" "
6	0513A_08	STD DRO 60 PPM 14D09595	LA31J23N						1	1	05/13/14 1149	" "
7	0513A_09	STD DRO 40 PPM 14D09595	LA31J23N						1	1	05/13/14 1209	" "
8	0513A_10	STD DRO 100 PPM 14D09595	LA31J23N						1	1	05/13/14 1228	" "
9	0513A_11	STD DRO 200 PPM 14D09595	LA31J23N						1	1	05/13/14 1247	" "
10	0513A_12	SSCV DRO 60 PPM 14D09596	LA31J23N						1	1	05/13/14 1307	" "
11	1023_01	INSTBLK	LA31J23N						1	1	10/23/14 1155	" "
12	1023_02	LOC FL 68 PPM 14J08656	EP31J22N						1	1	10/23/14 1213	" "
13	1023_06	INSTBLK	EP31J22N						1	1	10/23/14 1323	" "
14	1023_07	INSTBLK	EP31J22N						1	1	10/23/14 1341	" "
15	1023_23	INSTBLK	EP31J22N						1	1	10/23/14 1826	" "

Environmental Science Corporation
12065 Lebanon Rd., Mt. Juliet, TN 37122

Injection Log

Instrument ID : SVGC31
Computer Name : SVCOMPBA
Released By : Jared N. Starkey
Date Released : 11/28/2014 10:24:21 AM
Run ID : 102314
Signature : _____

#	File ID	Sample ID	Method	WG	Product	Matrix	Account #	State	Dil.	Mult.	Injected	Misc.
16	1023_24	INSTBLK	EP31J22N						1	1	10/23/14 1844	" "
17	1023_26	LOC FL 68 PPM 14J08656	LA31J23N						1	1	10/23/14 1920	" "
18	1023_27	STD 10W30 1 PPM 14J23427	LA31J23N						1	1	10/23/14 1938	" "
19	1023_28	STD 10W30 2 PPM 14J23427	LA31J23N						1	1	10/23/14 1956	" "
20	1023_29	STD 10W30 4 PPM 14J23427	LA31J23N						1	1	10/23/14 2014	" "
21	1023_30	STD 10W30 10 PPM 14J23427	LA31J23N						1	1	10/23/14 2032	" "
22	1023_31	STD 10W30 20 PPM 14J23427	LA31J23N						1	1	10/23/14 2050	" "
23	1023_32	STD 10W30 40 PPM 14J23427	LA31J23N						1	1	10/23/14 2108	" "
24	1023_33	STD 10W30 50 PPM 14J23427	LA31J23N						1	1	10/23/14 2126	" "
25	1023_34	STD 10W30 100 PPM 14J23427	LA31J23N						1	1	10/23/14 2144	" "
26	1023_35	SSCV 10W30 30 PPM 14J23434	LA31J23N						1	1	10/23/14 2201	" "
27	1126_02.d	LOC FL 68 PPM 14K18894	LA31K28N						1	1	11/26/14 1606	" "

Environmental Science Corporation
12065 Lebanon Rd., Mt. Juliet, TN 37122

INITIAL CALIBRATION SUMMARY

Instrument ID	: SVGC31	Review Method	: LVI EPH	Released By	: Jared N. Starkey
Method	: LA31K28N	Review Protocol	: SW846	Released On	: 11/28/2014 10:24:21 AM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- LA31K28N -- ICal Updated Time: Fri Nov 28 10:02:16 2014

Parameter	2	4	10	20	40	60	100	200	1M	2M	4M	10M	20M	40M	50M	100M	AvgRF	%RSD	COD	Cur
C10-C28 Diesel Range	3.238 E+07	2.884 E+07	2.725 E+07	2.719 E+07	2.583 E+07	2.525 E+07	2.524 E+07	2.481 E+07									2.7100 38E+07	9.32	1	0
C28-C40 Oil Range									4.201 E+07	2.673 E+07	1.917 E+07	1.462 E+07	1.358 E+07	1.306 E+07	1.295 E+07	1.291 E+07	1.9377 28E+07	53.27	1	0
o-terphenyl	3.713 E+07	3.567 E+07	3.447 E+07	3.364 E+07	3.382 E+07												3.4946 56E+07	4.17	0.042	1

PDF Generated On: 11/28/2014 -- By: Jared N. Starkey

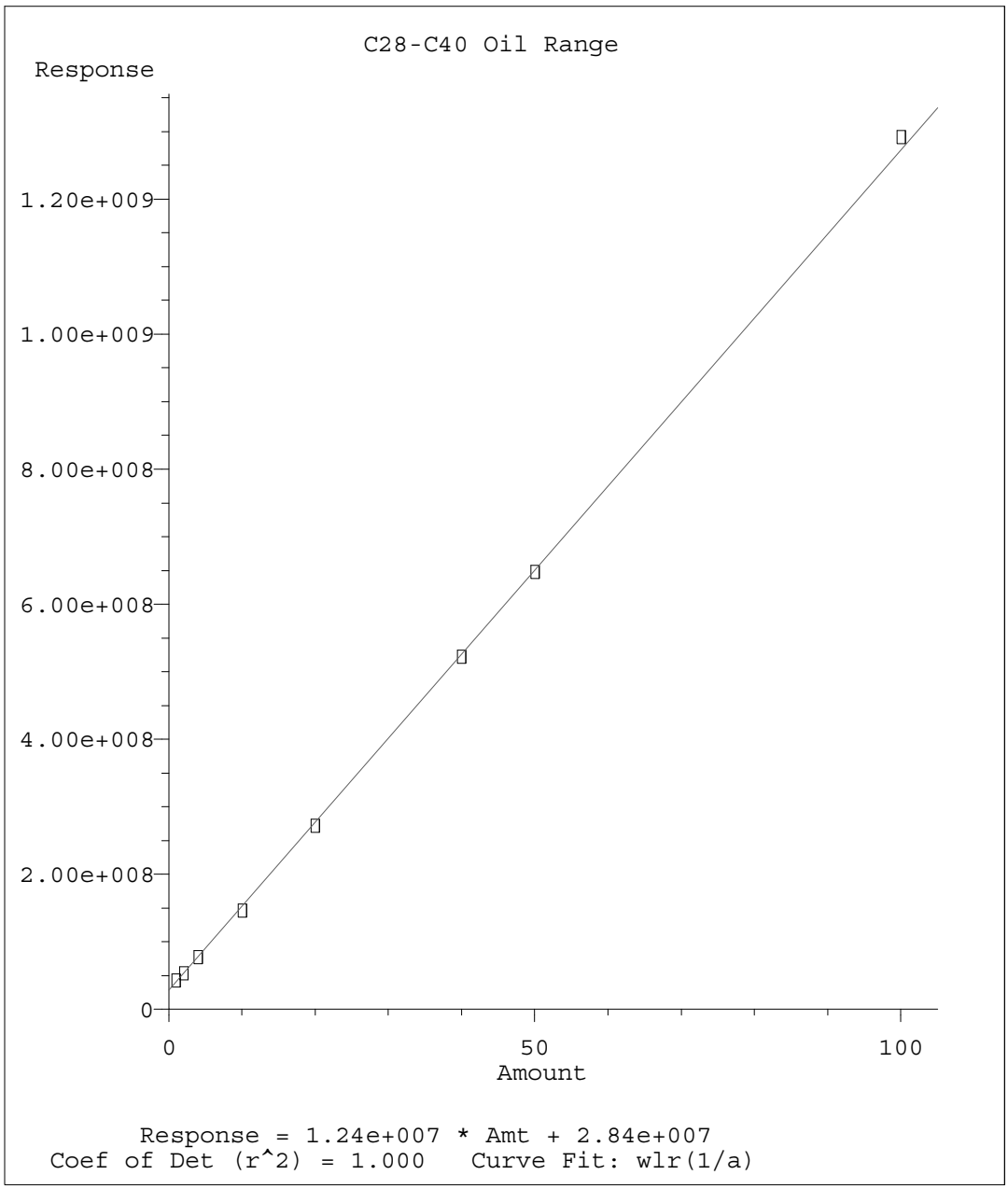
Response Factor Report SVGC31

Method Path : C:\msdchem\1\methods\
Method File : LA31K28N.m
Title :
Last Update : Fri Nov 28 10:02:16 2014
Response Via : Initial Calibration

Calibration Files
2 =0513A 03.d 4 =0513A 04.d 10 =0513A 05.d
20 =0513A_06.d 40 =0513A_09.d 60 =0513A_08.d

Compound	2	4	10	20	40	60	Avg	%RSD
1) H,M C10-C28 Diese...	3.238	2.884	2.725	2.719	2.583	2.525	2.710 E7	9.32
2) H,M C28-C40 Oil R...							1.938 E7	53.27
3) S o-terphenyl	3.713	3.567	3.447	3.364	3.382		3.495 E7	4.17

(#) = Out of Range ### Number of calibration levels exceeded format ###



Method Name: C:\msdchem\1\methods\LA31K28N.m

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\102314\
Data File : 0513A 02.d
Signal(s) : FID1A.ch
Acq On : 13 May 2014 9:49 am
Operator :
Sample : LOC FL 68 PPM 14E05008
Misc :
ALS Vial : 2 Sample Multiplier: 1

Integration File: events.e
Quant Time: Oct 24 12:10:19 2014
Quant Method : C:\msdchem\1\methods\LA31J23N.m
Quant Title :
QLast Update : Fri Oct 24 12:07:42 2014
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :

Compound	R.T.	Response	Conc	Units
System Monitoring Compounds				
3) S o-terphenyl	0.00	0	N.D.	ppm
Spiked Amount 0.0200 Range 50 - 150 Recovery = 0.00%#				
Target Compounds				
1) H,M C10-C28 Diesel Range	3.23	1077216284	42.4198212	ppm
2) H,M C28-C40 Oil Range	5.98	686074481	52.8765145	ppm

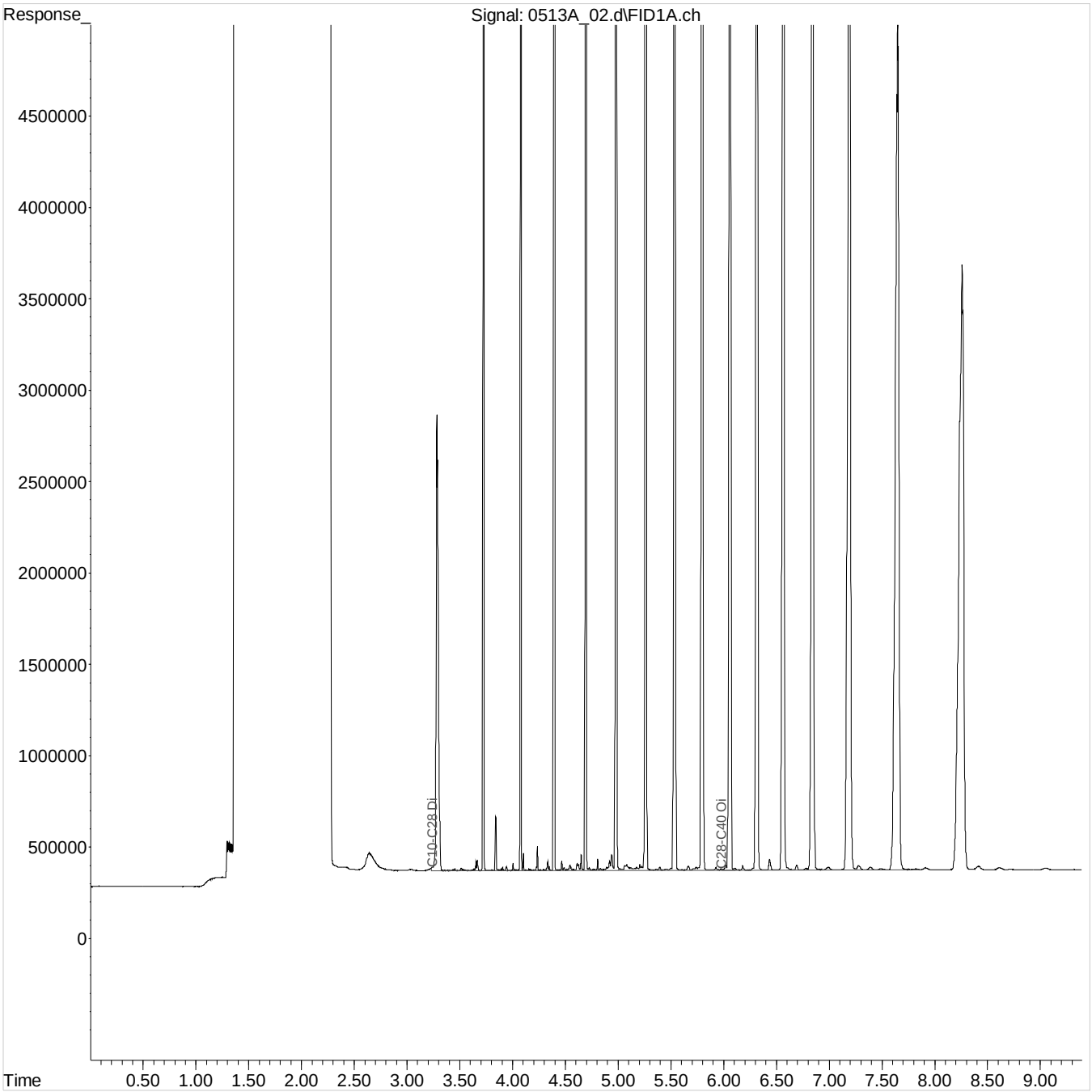
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\102314\
Data File : 0513A 02.d
Signal(s) : FID1A.ch
Acq On : 13 May 2014 9:49 am
Operator :
Sample : LOC FL 68 PPM 14E05008
Misc :
ALS Vial : 2 Sample Multiplier: 1

Integration File: events.e
Quant Time: Oct 24 12:10:19 2014
Quant Method : C:\msdchem\1\methods\LA31J23N.m
Quant Title :
QLast Update : Fri Oct 24 12:07:42 2014
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :

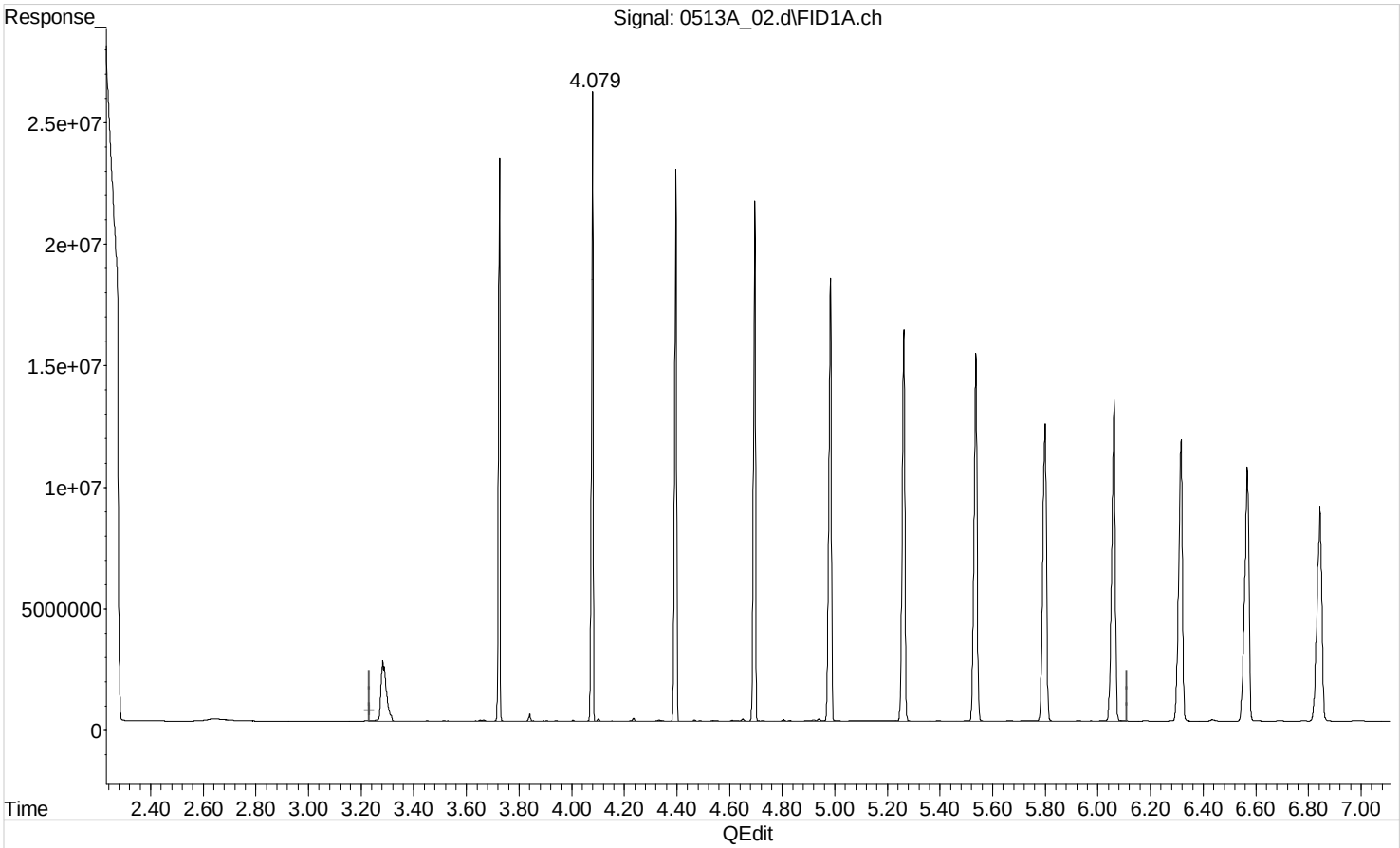


Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\102314\
Data File : 0513A 02.d
Signal(s) : FID1A.ch
Acq On : 13 May 2014 9:49 am
Operator :
Sample : LOC FL 68 PPM 14E05008
Misc :
ALS Vial : 2 Sample Multiplier: 1

Integration File: events.e
Quant Time: Oct 24 12:10:19 2014
Quant Method : C:\msdchem\1\methods\LA31J23N.m
Quant Title :
QLast Update : Fri Oct 24 12:07:42 2014
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :



(1) C10-C28 Diesel Range (H,M)

3.230min 42.4198212 ppm m

response 1077216284

(+) = Expected Retention Time

LA31J23N.m Fri Oct 24 12:10:25 2014 Page: 1

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\102314\
Data File : 1023 02.d
Signal(s) : FID1A.ch
Acq On : 23 Oct 2014 12:13 pm
Operator : 546
Sample : LOC FL 68 PPM 14J08656
Misc :
ALS Vial : 2 Sample Multiplier: 1

Integration File: events.e
Quant Time: Oct 23 12:36:18 2014
Quant Method : C:\msdchem\1\methods\EP31J22N.m
Quant Title :
QLast Update : Wed Oct 22 15:02:20 2014
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :

Compound	R.T.	Response	Conc	Units
System Monitoring Compounds				
23) S o-terphenyl	0.00	0	N.D.	ppm
Spiked Amount 0.0200 Range 50 - 150		Recovery	=	0.00%#
Target Compounds				
1) H,M C10-C20 Hydrocarbons	3.14	563817376	27.5959197	ppm
2) H,M C20-C34 Hydrocarbons	4.92	748384637	25.7521273	ppm
3) H,M C20-C36 Hydrocarbons	4.98	849311060	NoCal	ppm
4) T,H,M Extractable Petroleum...	3.60	1565123347	60.7408544	ppm
5) H,M C12-C22 Hydrocarbons	3.60	640463805	27.9383212	ppm
6) H,M C22-C32 Hydrocarbons	5.19	537053107	22.7165148	ppm
7) H,M C32-C40 Hydrocarbons	6.47	384593590	16.2071501	ppm
8) H,M MISC. TPH (C10-C40)	3.14	1598077424	61.2421184	ppm
9) H,M TPH (GC/FID) HIGH FRA...	3.14	1214929324	51.4445394	ppm
10) H,M C10-C28 Diesel Range	3.14	1003812601	35.4154054	ppm
11) H,M C28-C40 Oil Range	5.98	596846734	22.3554906	ppm
12) H,M C13-C22 Hydrocarbons	3.78	547992501	25.2931504	ppm
13) H,M C23-C32 Hydrocarbons	5.25	537020688	23.5453446	ppm
14) h,m Diesel Range Organics	3.60	750248151	27.1431803	ppm
15) h,m Residual Range Organics	5.46	814233602	34.2573305	ppm
16) h Hydraulic Fluid	0.00	1152342	NoCal	ppm
17) h #6 Fuel Oil	0.00	1152342	NoCal	ppm
18) h Kerosene	0.00	1152342	NoCal	ppm
19) h Mineral Spirits	0.00	1152342	NoCal	ppm
20) h Biodiesel	0.00	1152342	NoCal	ppm
21) h,m Diesel	3.14	563817376	27.6374585	ppm
22) h,m Motor Oil	4.92	1032850667	32.5320517	ppm

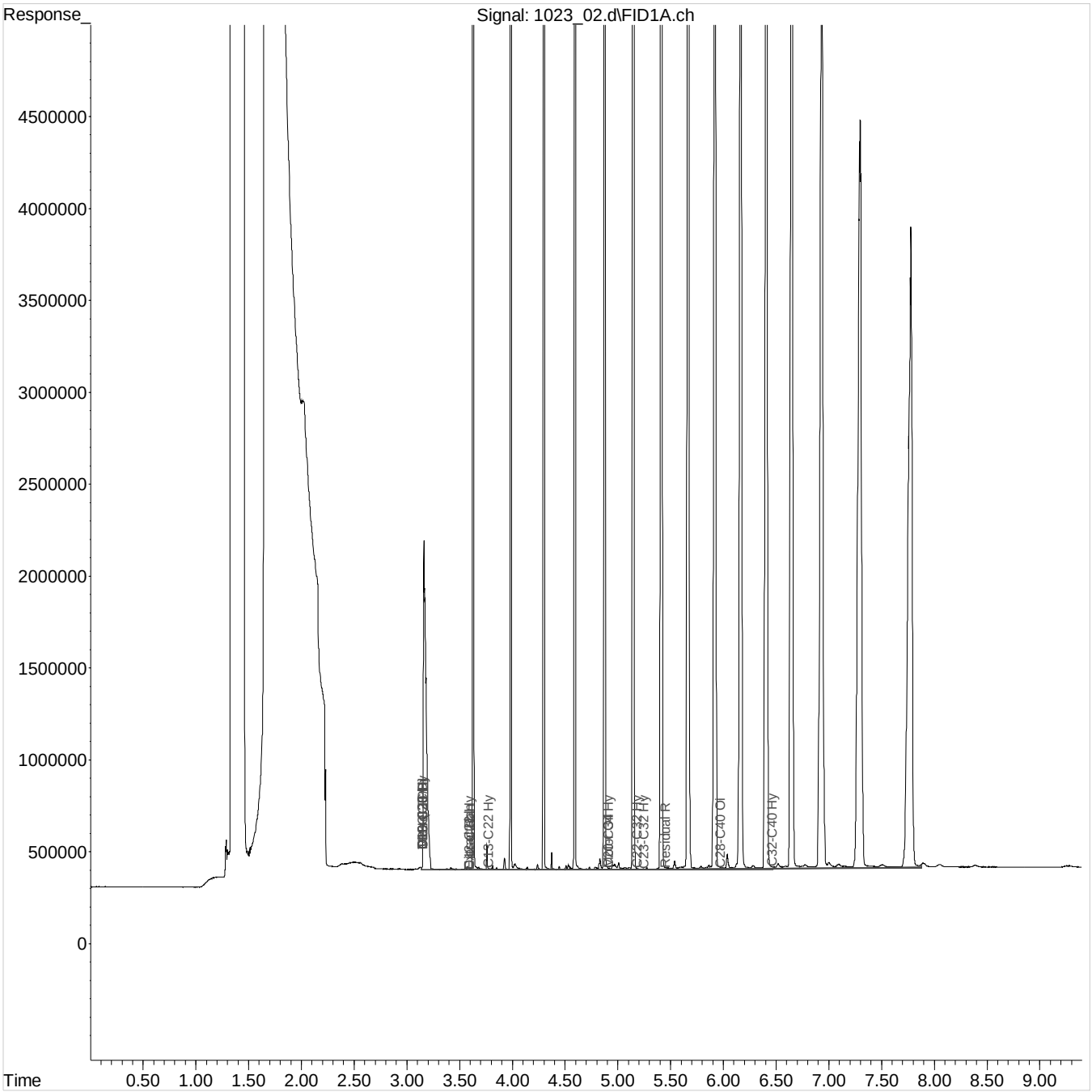
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\102314\
Data File : 1023 02.d
Signal(s) : FID1A.ch
Acq On : 23 Oct 2014 12:13 pm
Operator : 546
Sample : LOC FL 68 PPM 14J08656
Misc :
ALS Vial : 2 Sample Multiplier: 1

Integration File: events.e
Quant Time: Oct 23 12:36:18 2014
Quant Method : C:\msdchem\1\methods\EP31J22N.m
Quant Title :
QLast Update : Wed Oct 22 15:02:20 2014
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :

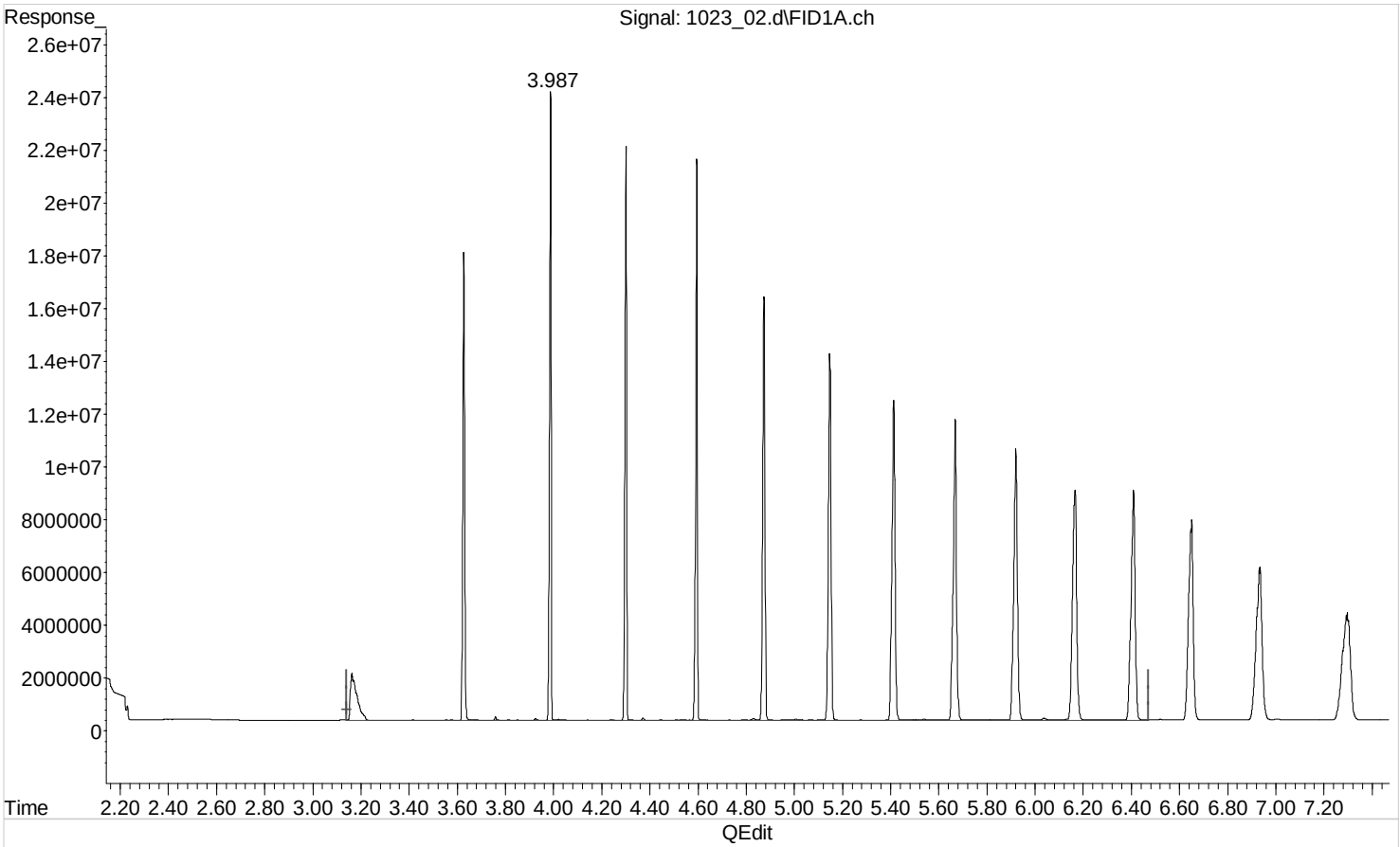


Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\102314\
Data File : 1023 02.d
Signal(s) : FID1A.ch
Acq On : 23 Oct 2014 12:13 pm
Operator : 546
Sample : LOC FL 68 PPM 14J08656
Misc :
ALS Vial : 2 Sample Multiplier: 1

Integration File: events.e
Quant Time: Oct 23 12:36:18 2014
Quant Method : C:\msdchem\1\methods\EP31J22N.m
Quant Title :
QLast Update : Wed Oct 22 15:02:20 2014
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :



(9) TPH (GC/FID) HIGH FRACTION (H,M)

3.140min 51.4445394 ppm m

response 1214929324

(+) = Expected Retention Time

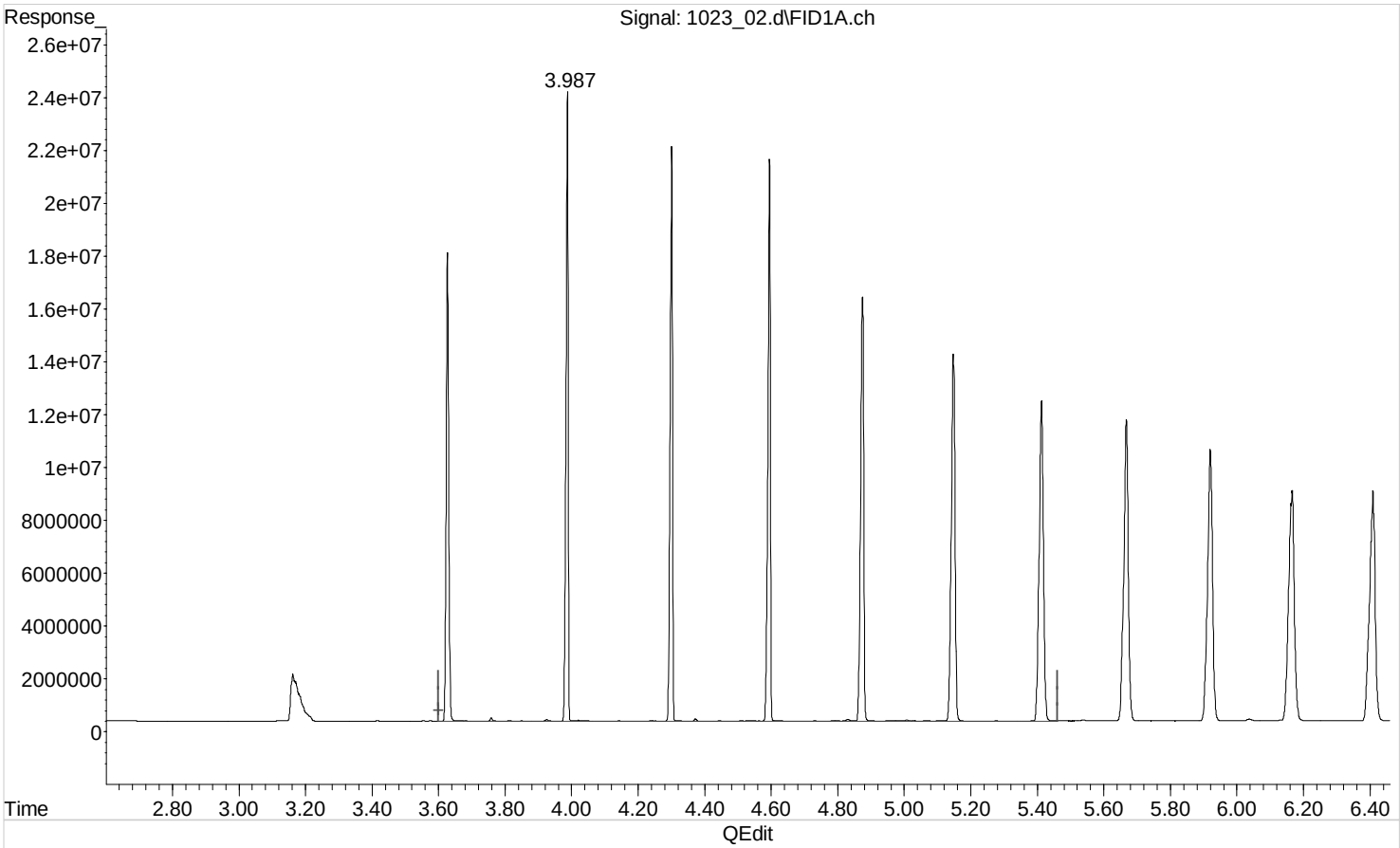
EP31J22N.m Thu Oct 23 12:36:28 2014 Page: 1

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\102314\
Data File : 1023 02.d
Signal(s) : FID1A.ch
Acq On : 23 Oct 2014 12:13 pm
Operator : 546
Sample : LOC FL 68 PPM 14J08656
Misc :
ALS Vial : 2 Sample Multiplier: 1

Integration File: events.e
Quant Time: Oct 23 12:36:18 2014
Quant Method : C:\msdchem\1\methods\EP31J22N.m
Quant Title :
QLast Update : Wed Oct 22 15:02:20 2014
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :



(14) Diesel Range Organics (h,m)

3.600min 27.1431803 ppm m

response 750248151

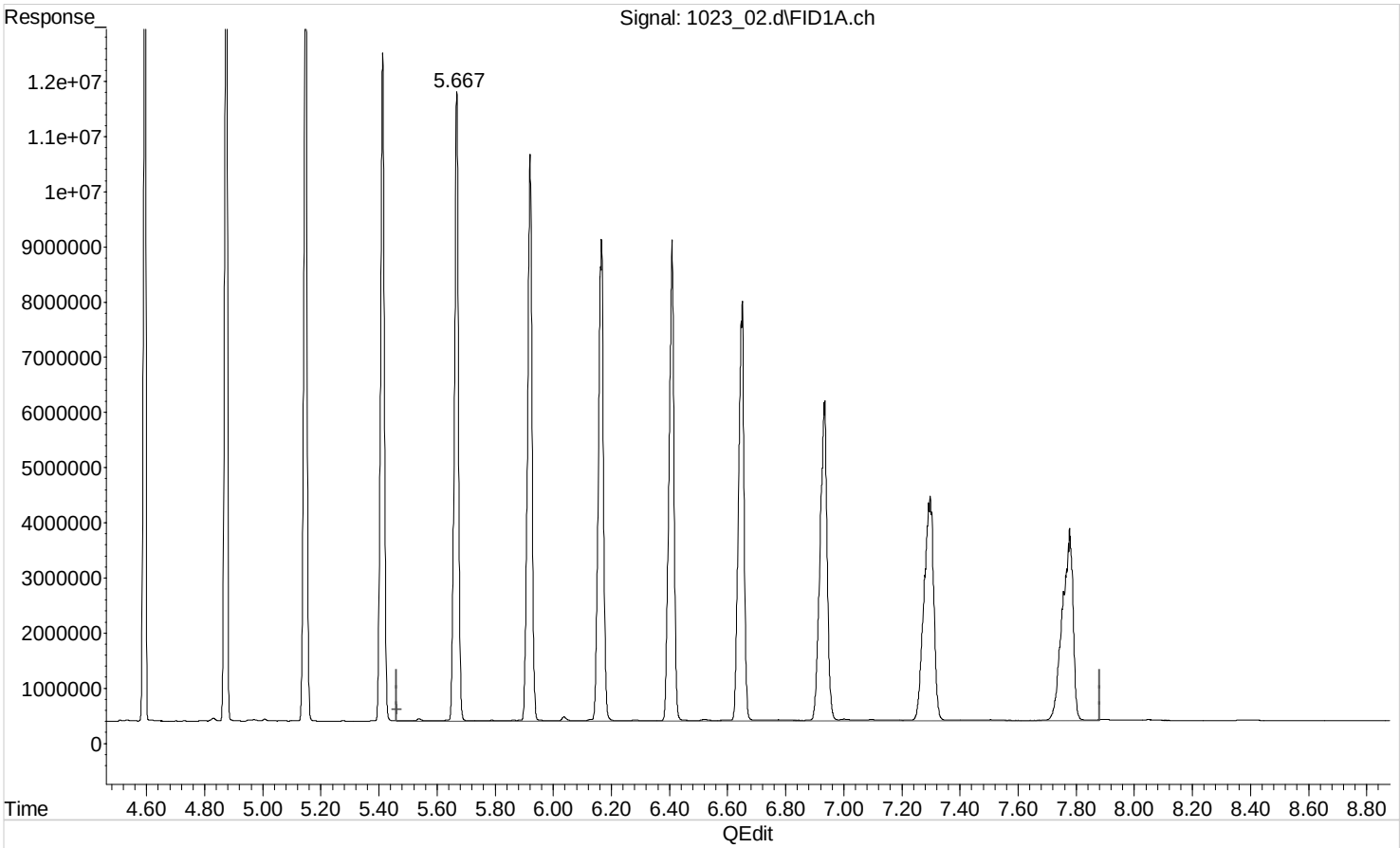
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\102314\
Data File : 1023 02.d
Signal(s) : FID1A.ch
Acq On : 23 Oct 2014 12:13 pm
Operator : 546
Sample : LOC FL 68 PPM 14J08656
Misc :
ALS Vial : 2 Sample Multiplier: 1

Integration File: events.e
Quant Time: Oct 23 12:36:18 2014
Quant Method : C:\msdchem\1\methods\EP31J22N.m
Quant Title :
QLast Update : Wed Oct 22 15:02:20 2014
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :



(15) Residual Range Organics (h,m)

5.460min 34.2573305 ppm m

response 814233602

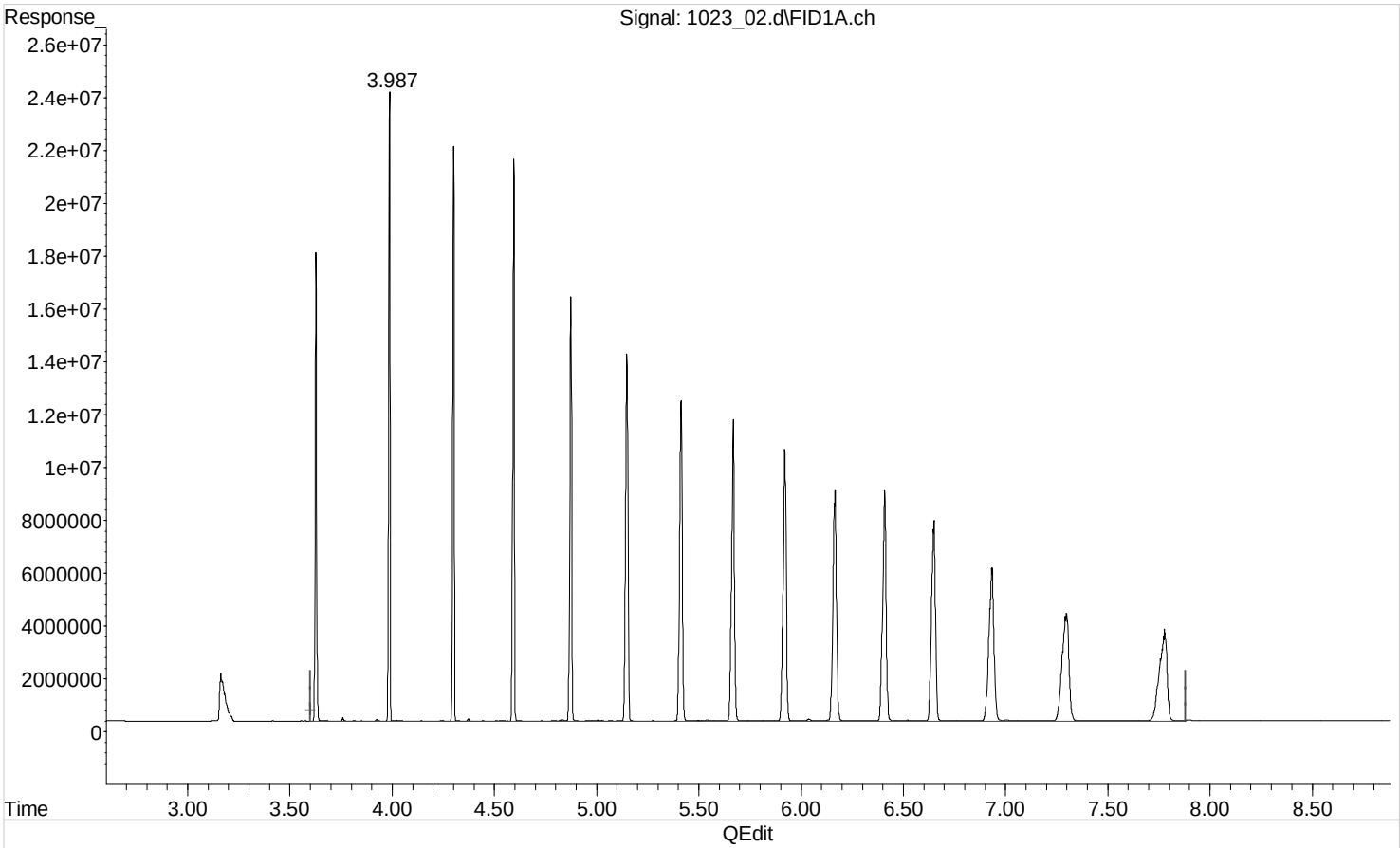
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\102314\
Data File : 1023 02.d
Signal(s) : FID1A.ch
Acq On : 23 Oct 2014 12:13 pm
Operator : 546
Sample : LOC FL 68 PPM 14J08656
Misc :
ALS Vial : 2 Sample Multiplier: 1

Integration File: events.e
Quant Time: Oct 23 12:36:18 2014
Quant Method : C:\msdchem\1\methods\EP31J22N.m
Quant Title :
QLast Update : Wed Oct 22 15:02:20 2014
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :



(4) Extractable Petroleum Hydrocarbon (T,H,M)

3.600min 60.7408544 ppm m

response 1565123347

(+) = Expected Retention Time

EP31J22N.m Thu Oct 23 12:36:37 2014 Page: 1

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\102314\
Data File : 1023 26.d
Signal(s) : FID1A.ch
Acq On : 23 Oct 2014 7:20 pm
Operator : 546
Sample : LOC FL 68 PPM 14J08656
Misc :
ALS Vial : 19 Sample Multiplier: 1

Integration File: events.e
Quant Time: Oct 24 12:10:06 2014
Quant Method : C:\msdchem\1\methods\LA31J23N.m
Quant Title :
QLast Update : Fri Oct 24 12:07:42 2014
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
3) S o-terphenyl	4.87	112733139	3.2258721 ppm
Spiked Amount 0.0200 Range 50 - 150 Recovery = 16129.36%#			
Target Compounds			
1) H,M C10-C28 Diesel Range	3.23	908638361	35.6700182 ppm
2) H,M C28-C40 Oil Range	5.98	640300267	49.1963259 ppm

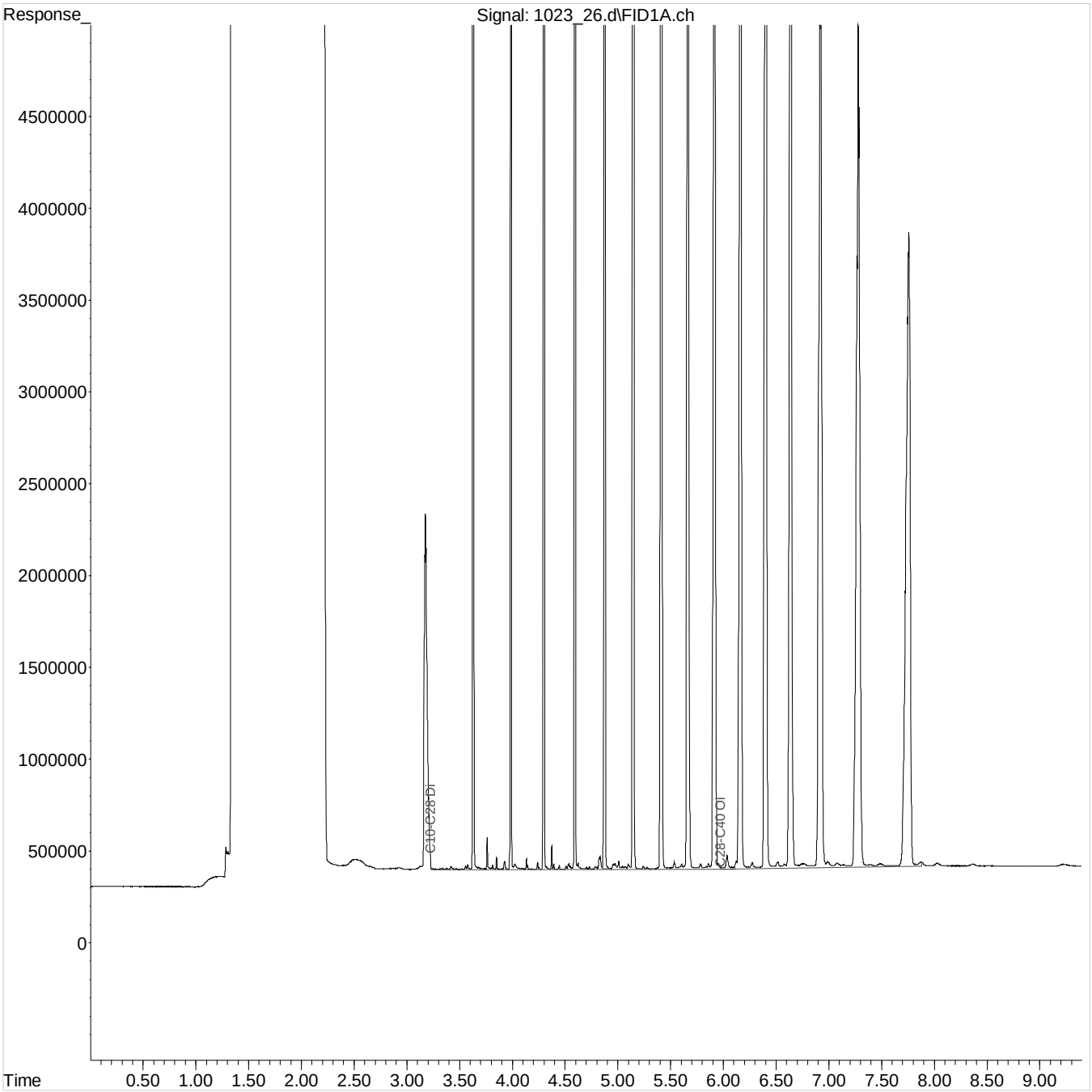
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\102314\
Data File : 1023 26.d
Signal(s) : FID1A.ch
Acq On : 23 Oct 2014 7:20 pm
Operator : 546
Sample : LOC FL 68 PPM 14J08656
Misc :
ALS Vial : 19 Sample Multiplier: 1

Integration File: events.e
Quant Time: Oct 24 12:10:06 2014
Quant Method : C:\msdchem\1\methods\LA31J23N.m
Quant Title :
QLast Update : Fri Oct 24 12:07:42 2014
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :

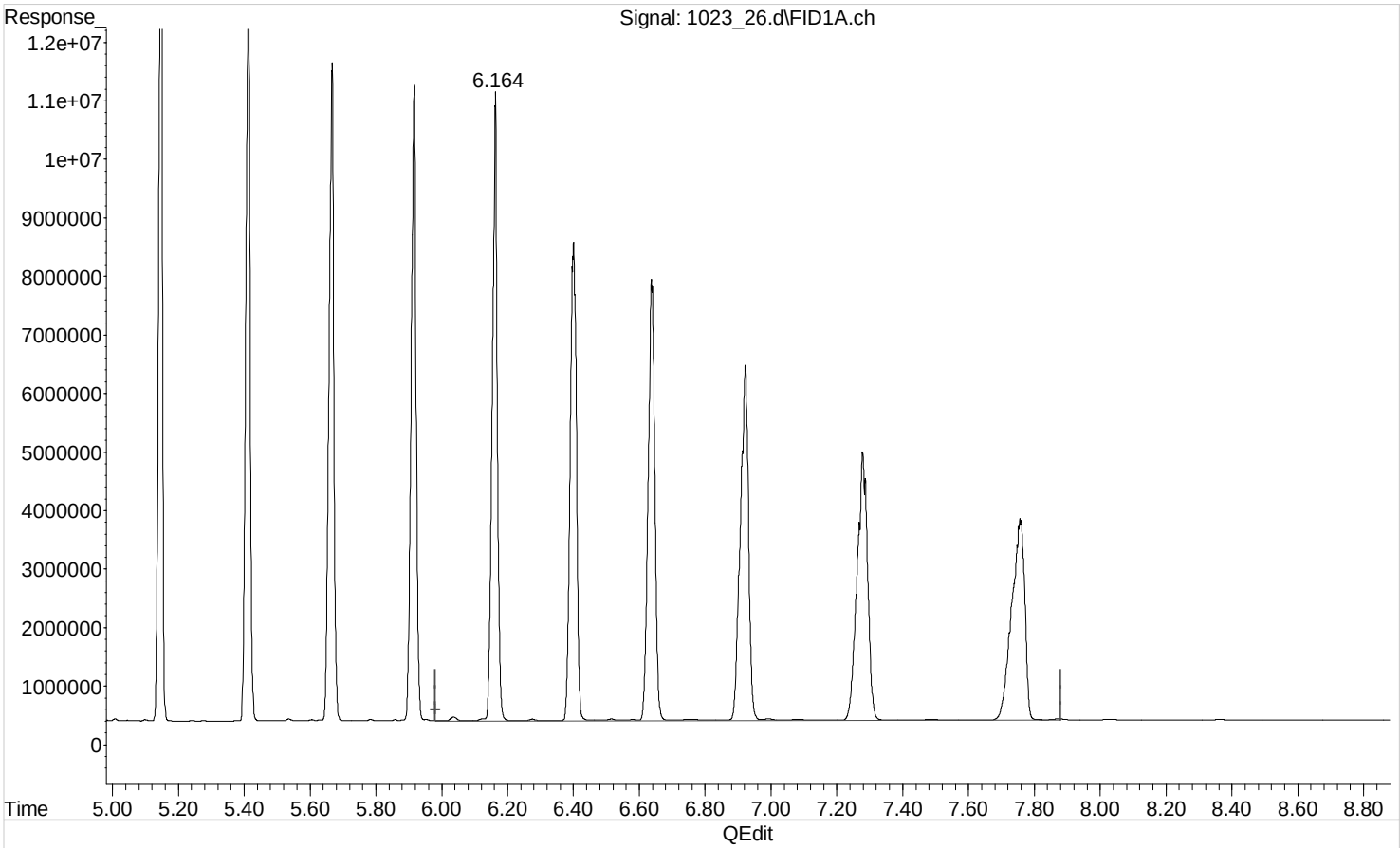


Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\102314\
Data File : 1023 26.d
Signal(s) : FID1A.ch
Acq On : 23 Oct 2014 7:20 pm
Operator : 546
Sample : LOC FL 68 PPM 14J08656
Misc :
ALS Vial : 19 Sample Multiplier: 1

Integration File: events.e
Quant Time: Oct 24 12:10:06 2014
Quant Method : C:\msdchem\1\methods\LA31J23N.m
Quant Title :
QLast Update : Fri Oct 24 12:07:42 2014
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :



(2) C28-C40 Oil Range (H,M)

5.980min 49.1963259 ppm m

response 640300267

(+) = Expected Retention Time

LA31J23N.m Fri Oct 24 12:10:12 2014 Page: 1

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\112614\
Data File : 1126 02.d
Signal(s) : FID1A.ch
Acq On : 26 Nov 2014 4:06 pm
Operator : 546
Sample : LOC FL 68 PPM 14K18894
Misc :
ALS Vial : 2 Sample Multiplier: 1

Integration File: events.e
Quant Time: Nov 28 10:04:46 2014
Quant Method : C:\msdchem\1\methods\LA31K28N.m
Quant Title :
QLast Update : Fri Nov 28 10:02:16 2014
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :

Compound	R.T.	Response	Conc	Units
System Monitoring Compounds				
3) S o-terphenyl	0.00	0	N.D.	ppm
Spiked Amount 0.0200 Range 50 - 150 Recovery = 0.00%#				
Target Compounds				
1) H,M C10-C28 Diesel Range	3.07	1059634918	41.7158693	ppm
2) H,M C28-C40 Oil Range	5.93	611432453	46.8753904	ppm

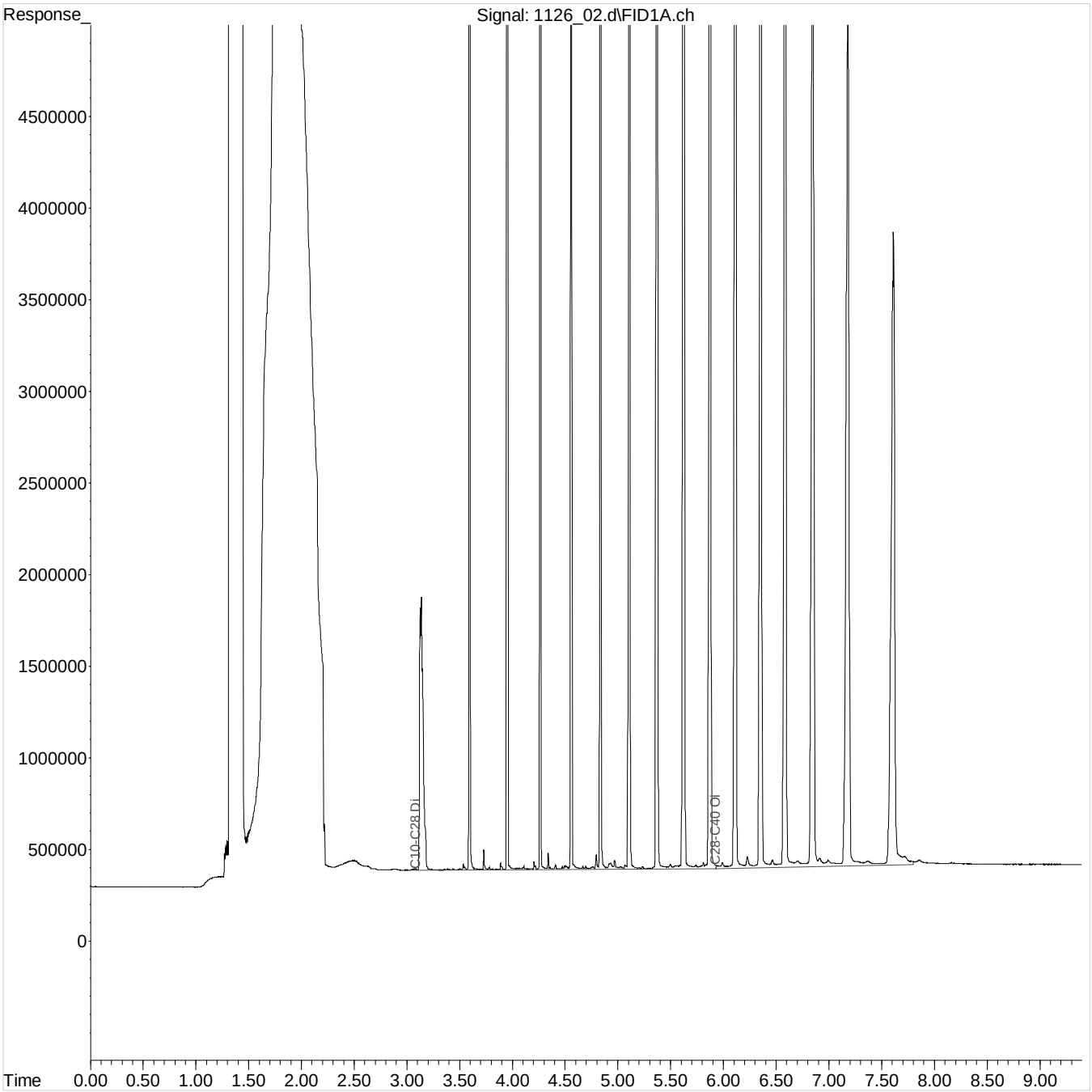
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\112614\
Data File : 1126 02.d
Signal(s) : FID1A.ch
Acq On : 26 Nov 2014 4:06 pm
Operator : 546
Sample : LOC FL 68 PPM 14K18894
Misc :
ALS Vial : 2 Sample Multiplier: 1

Integration File: events.e
Quant Time: Nov 28 10:04:46 2014
Quant Method : C:\msdchem\1\methods\LA31K28N.m
Quant Title :
QLast Update : Fri Nov 28 10:02:16 2014
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :

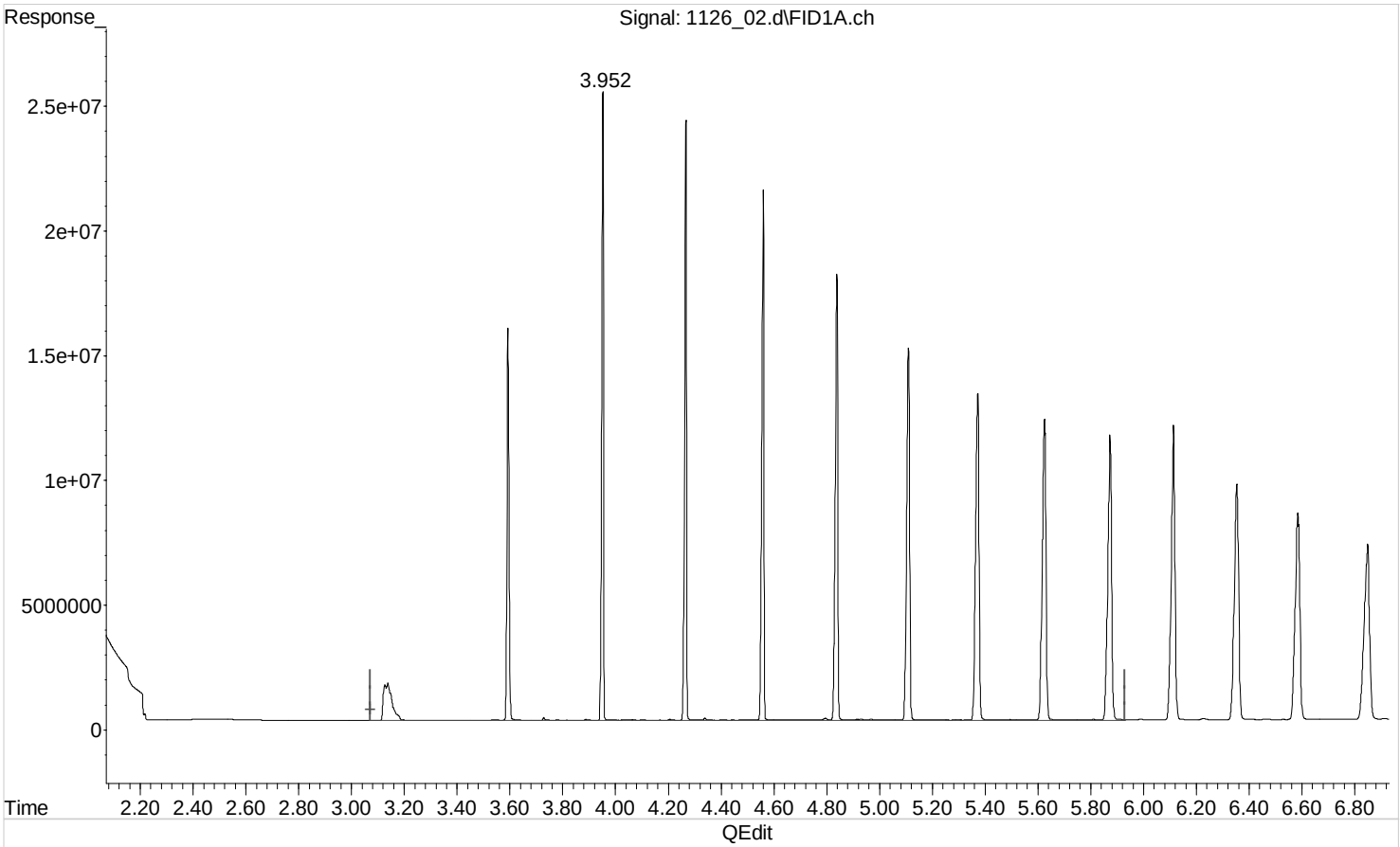


Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\112614\
Data File : 1126 02.d
Signal(s) : FID1A.ch
Acq On : 26 Nov 2014 4:06 pm
Operator : 546
Sample : LOC FL 68 PPM 14K18894
Misc :
ALS Vial : 2 Sample Multiplier: 1

Integration File: events.e
Quant Time: Nov 28 10:04:46 2014
Quant Method : C:\msdchem\1\methods\LA31K28N.m
Quant Title :
QLast Update : Fri Nov 28 10:02:16 2014
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :



(1) C10-C28 Diesel Range (H,M)

3.070min 41.7158693 ppm m

response 1059634918

(+) = Expected Retention Time

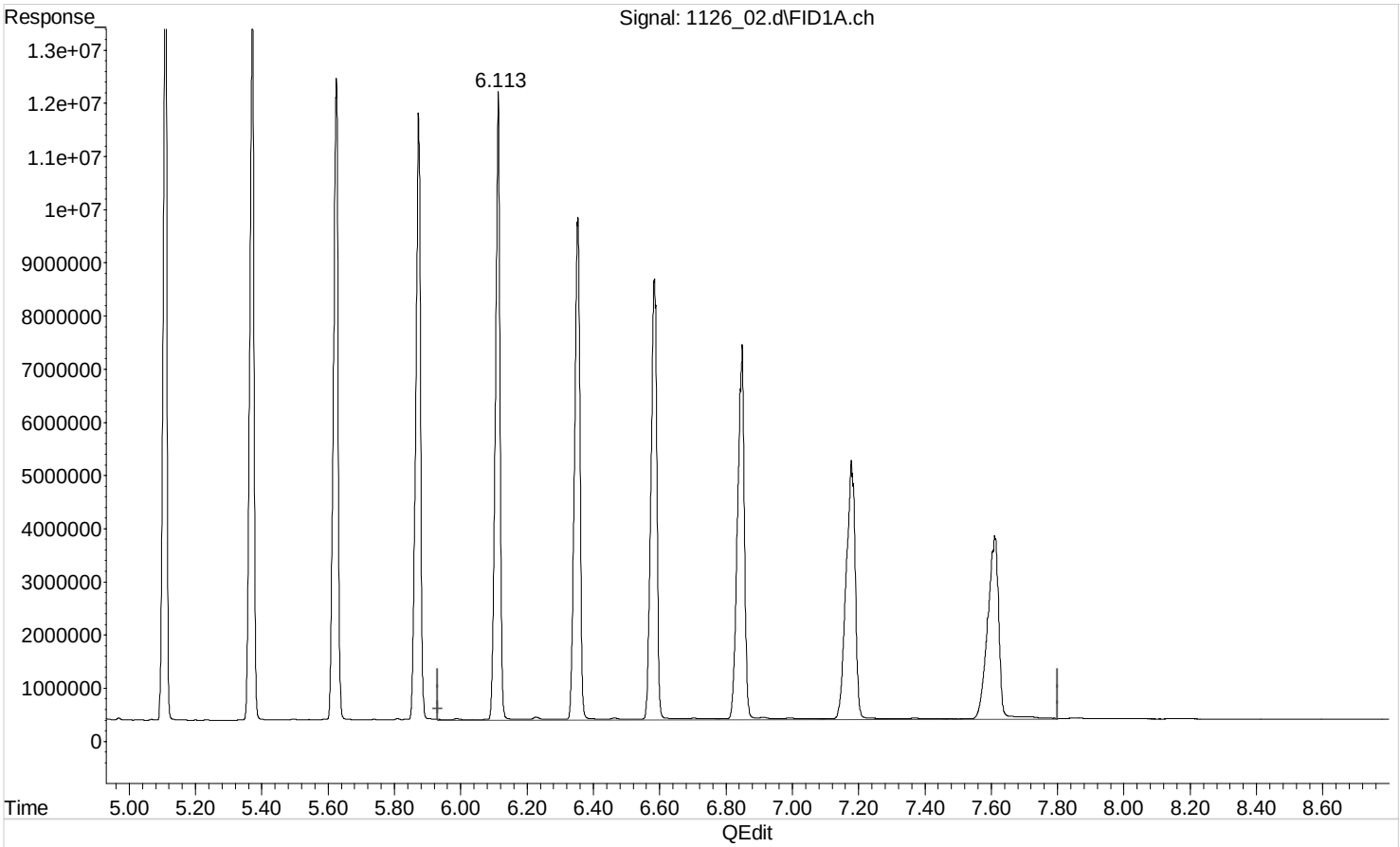
LA31K28N.m Fri Nov 28 10:04:54 2014 Page: 1

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\112614\
Data File : 1126 02.d
Signal(s) : FID1A.ch
Acq On : 26 Nov 2014 4:06 pm
Operator : 546
Sample : LOC FL 68 PPM 14K18894
Misc :
ALS Vial : 2 Sample Multiplier: 1

Integration File: events.e
Quant Time: Nov 28 10:04:46 2014
Quant Method : C:\msdchem\1\methods\LA31K28N.m
Quant Title :
QLast Update : Fri Nov 28 10:02:16 2014
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :



(2) C28-C40 Oil Range (H,M)

5.930min 46.8753904 ppm m

response 611432453

(+) = Expected Retention Time

LA31K28N.m Fri Nov 28 10:04:57 2014 Page: 1

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\102314\
Data File : 0513A 12.d
Signal(s) : FID1A.ch
Acq On : 13 May 2014 1:07 pm
Operator :
Sample : SSCV DRO 60 PPM 14D09596
Misc :
ALS Vial : 11 Sample Multiplier: 1

Integration File: events.e
Quant Time: Oct 24 12:10:58 2014
Quant Method : C:\msdchem\1\methods\LA31J23N.m
Quant Title :
QLast Update : Fri Oct 24 12:07:42 2014
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :

Compound	R.T.	Response	Conc	Units
System Monitoring Compounds				
3) S o-terphenyl	0.00	0	N.D.	ppm d
Spiked Amount 0.0200 Range 50 - 150 Recovery = 0.00%#				
Target Compounds				
1) H,M C10-C28 Diesel Range	3.23	1445215115	57.1543700	ppm
2) H,M C28-C40 Oil Range	0.00	0	N.D.	ppm

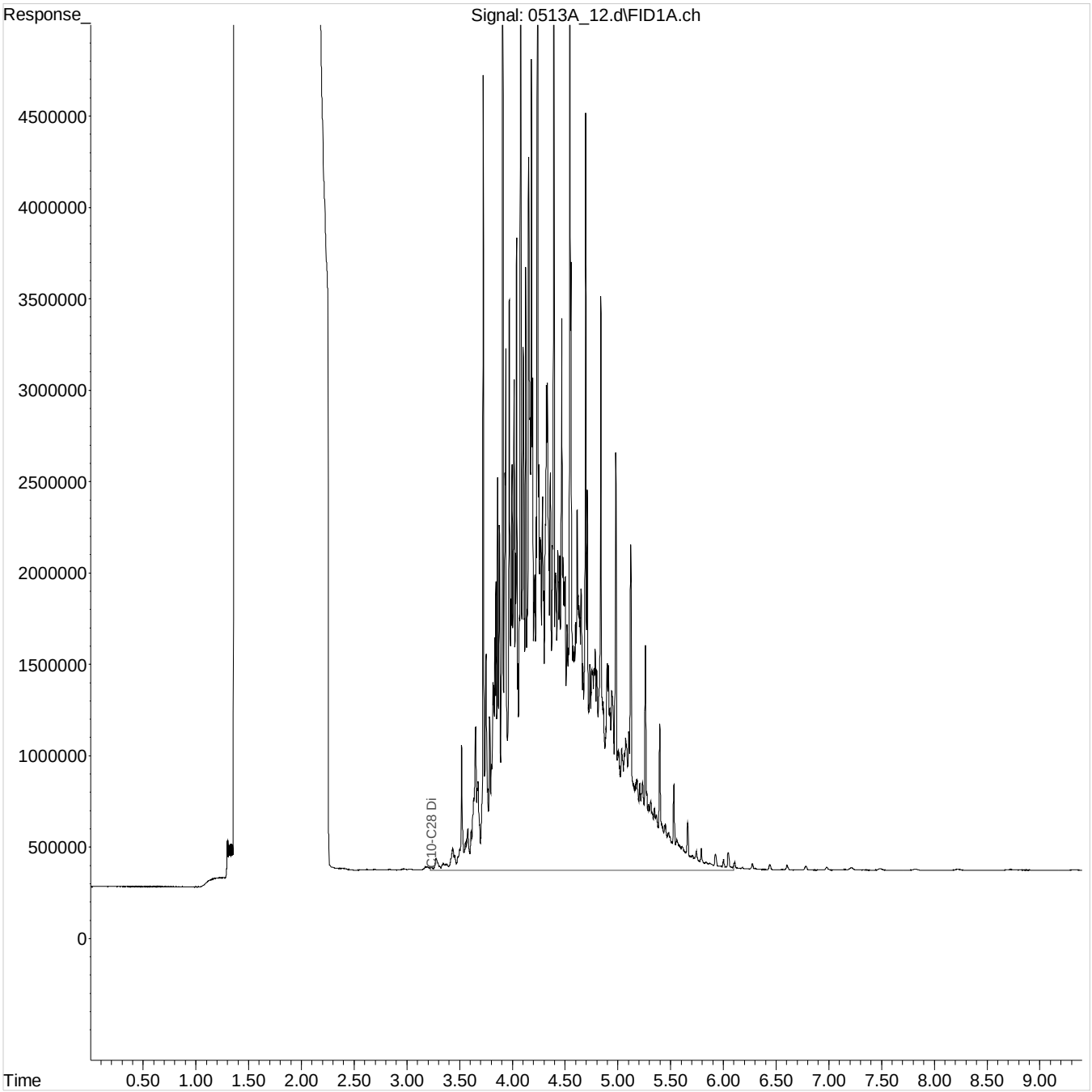
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\102314\
Data File : 0513A 12.d
Signal(s) : FID1A.ch
Acq On : 13 May 2014 1:07 pm
Operator :
Sample : SSCV DRO 60 PPM 14D09596
Misc :
ALS Vial : 11 Sample Multiplier: 1

Integration File: events.e
Quant Time: Oct 24 12:10:58 2014
Quant Method : C:\msdchem\1\methods\LA31J23N.m
Quant Title :
QLast Update : Fri Oct 24 12:07:42 2014
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\102314\
Data File : 1023 35.d
Signal(s) : FID1A.ch
Acq On : 23 Oct 2014 10:01 pm
Operator : 546
Sample : SSCV 10W30 30 PPM 14J23434
Misc :
ALS Vial : 28 Sample Multiplier: 1

Integration File: events.e
Quant Time: Oct 24 12:09:30 2014
Quant Method : C:\msdchem\1\methods\LA31J23N.m
Quant Title :
QLast Update : Fri Oct 24 12:07:42 2014
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :

Compound	R.T.	Response	Conc	Units
System Monitoring Compounds				
3) S o-terphenyl	0.00	0	N.D.	ppm d
Spiked Amount 0.0200 Range 50 - 150 Recovery = 0.00%#				
Target Compounds				
1) H,M C10-C28 Diesel Range	0.00	0	N.D.	ppm
2) H,M C28-C40 Oil Range	5.98	353039997	26.1009657	ppm

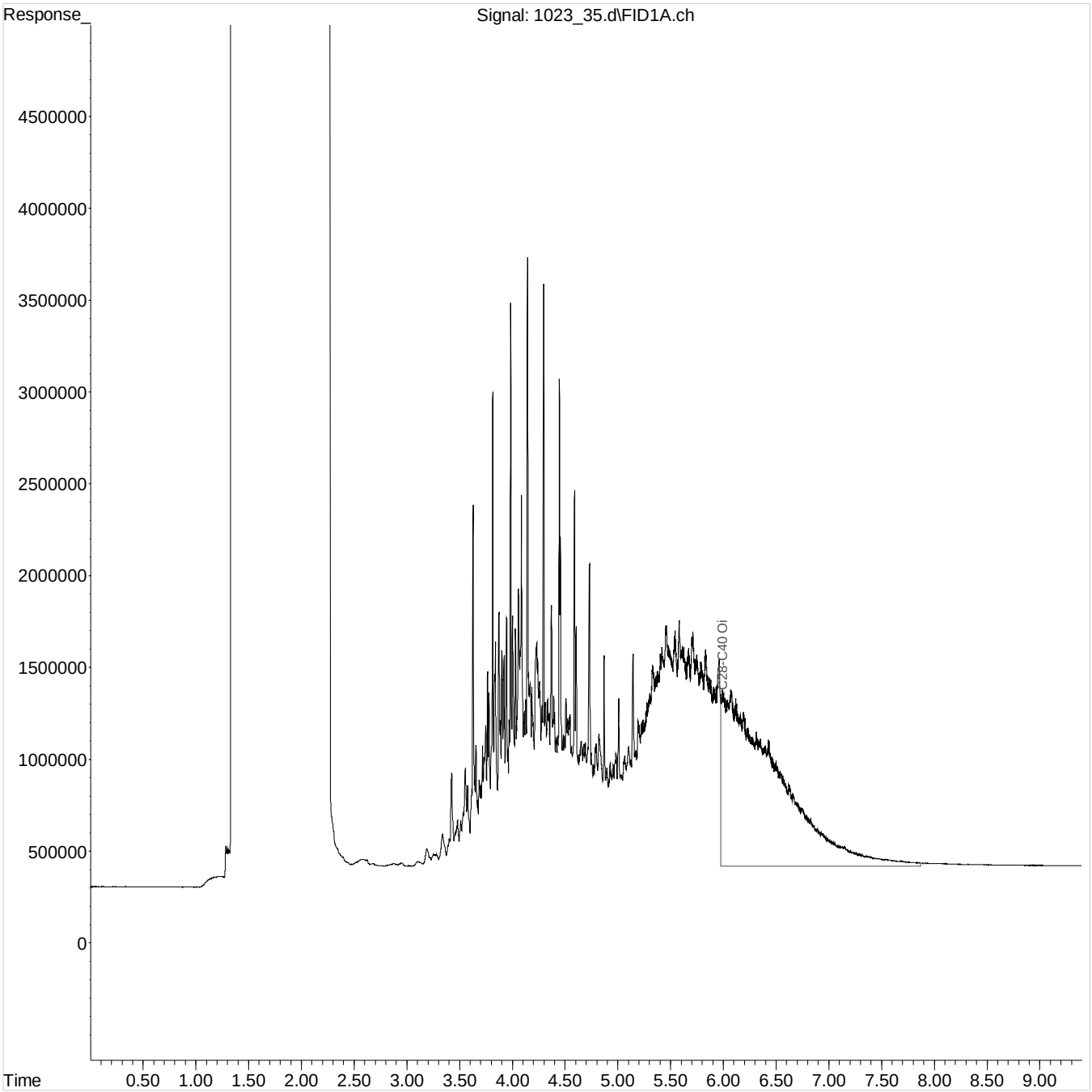
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\102314\
Data File : 1023 35.d
Signal(s) : FID1A.ch
Acq On : 23 Oct 2014 10:01 pm
Operator : 546
Sample : SSCV 10W30 30 PPM 14J23434
Misc :
ALS Vial : 28 Sample Multiplier: 1

Integration File: events.e
Quant Time: Oct 24 12:09:30 2014
Quant Method : C:\msdchem\1\methods\LA31J23N.m
Quant Title :
QLast Update : Fri Oct 24 12:07:42 2014
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\102314\
Data File : 0513A 03.d
Signal(s) : FID1A.ch
Acq On : 13 May 2014 10:09 am
Operator :
Sample : STD DRO 2 PPM 14D09595
Misc :
ALS Vial : 3 Sample Multiplier: 1

Integration File: events.e
Quant Time: Oct 24 11:52:42 2014
Quant Method : C:\msdchem\1\methods\LA31J23N.m
Quant Title :
QLast Update : Fri Oct 24 11:51:33 2014
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :

Compound	R.T.	Response	Conc	Units
System Monitoring Compounds				
3) S o-terphenyl	4.87	3713006	NoCal	ppm m
Spiked Amount 0.0200 Range 50 - 150		Recovery =	0.00%#	
Target Compounds				
1) H,M C10-C28 Diesel Range	3.23	64754263	NoCal	ppm
2) H,M C28-C40 Oil Range	0.00	0	N.D.	ppm

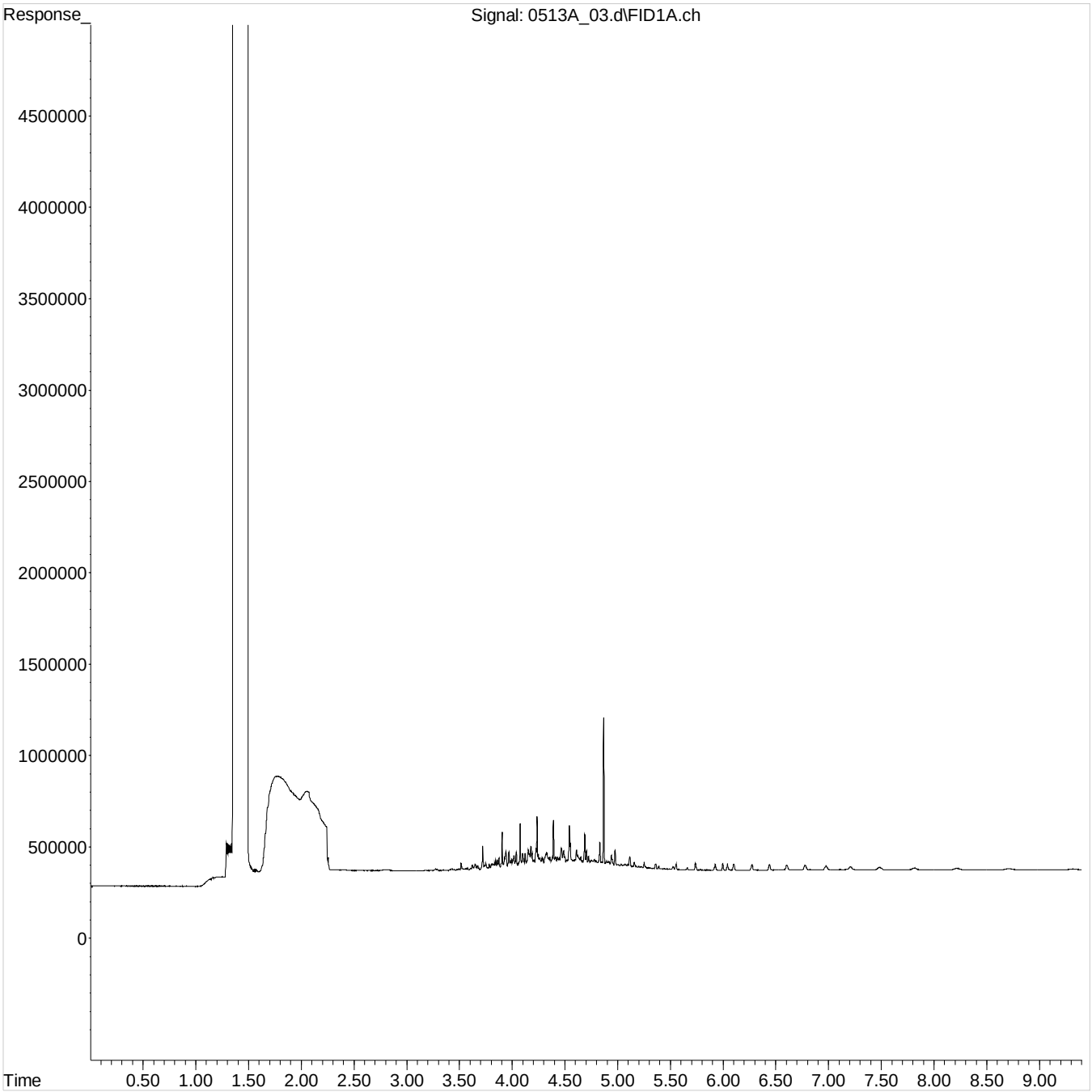
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\102314\
Data File : 0513A 03.d
Signal(s) : FID1A.ch
Acq On : 13 May 2014 10:09 am
Operator :
Sample : STD DRO 2 PPM 14D09595
Misc :
ALS Vial : 3 Sample Multiplier: 1

Integration File: events.e
Quant Time: Oct 24 11:52:42 2014
Quant Method : C:\msdchem\1\methods\LA31J23N.m
Quant Title :
QLast Update : Fri Oct 24 11:51:33 2014
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\102314\
Data File : 0513A 04.d
Signal(s) : FID1A.ch
Acq On : 13 May 2014 10:29 am
Operator :
Sample : STD DRO 4 PPM 14D09595
Misc :
ALS Vial : 4 Sample Multiplier: 1

Integration File: events.e
Quant Time: Oct 24 11:53:35 2014
Quant Method : C:\msdchem\1\methods\LA31J23N.m
Quant Title :
QLast Update : Fri Oct 24 11:52:57 2014
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
3) S o-terphenyl	4.87	7134692	0.1921541 ppm m
Spiked Amount 0.0200 Range 50 - 150		Recovery	= 960.77%#
Target Compounds			
1) H,M C10-C28 Diesel Range	3.23	115374521	3.5634571 ppm
2) H,M C28-C40 Oil Range	0.00	0	N.D. ppm

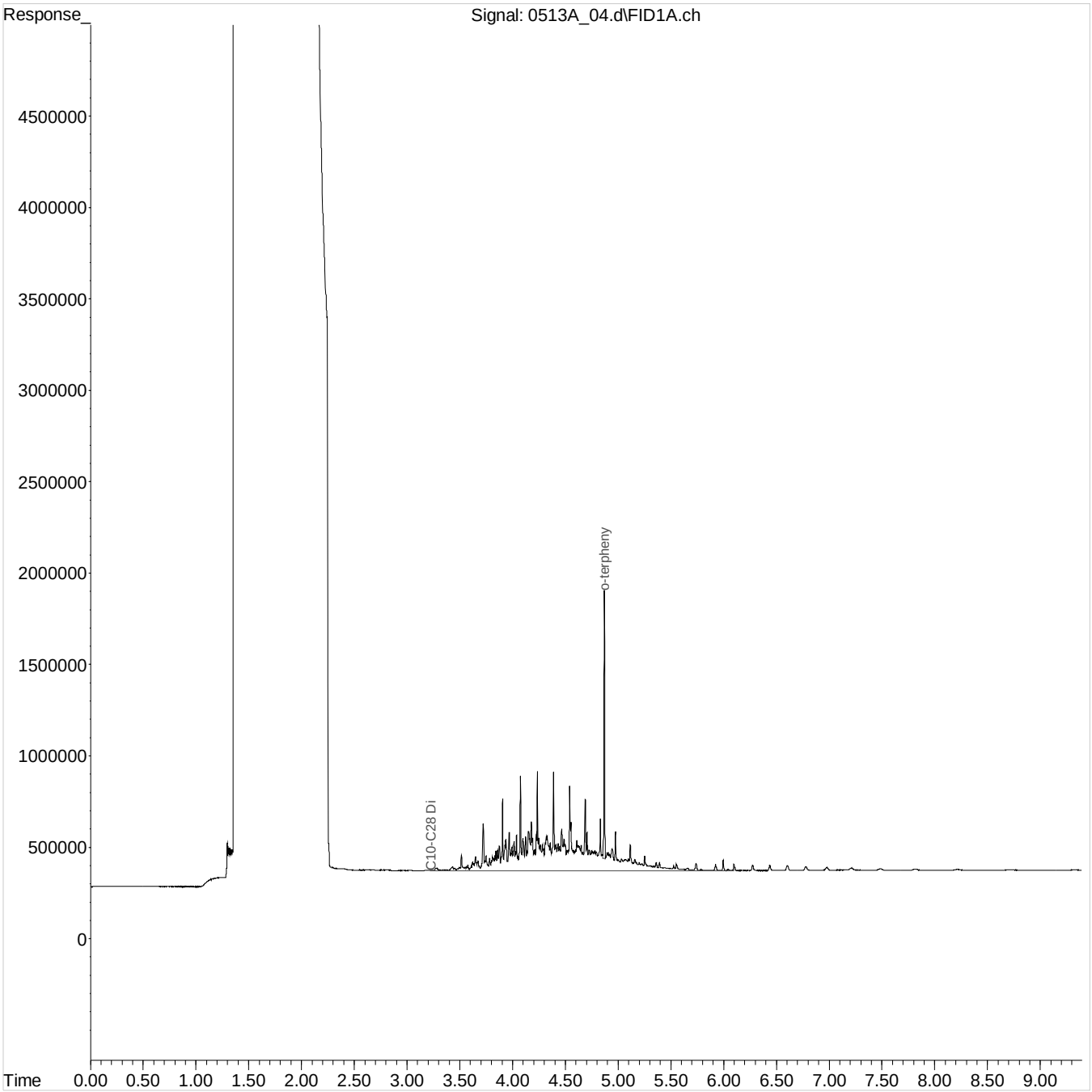
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\102314\
Data File : 0513A 04.d
Signal(s) : FID1A.ch
Acq On : 13 May 2014 10:29 am
Operator :
Sample : STD DRO 4 PPM 14D09595
Misc :
ALS Vial : 4 Sample Multiplier: 1

Integration File: events.e
Quant Time: Oct 24 11:53:35 2014
Quant Method : C:\msdchem\1\methods\LA31J23N.m
Quant Title :
QLast Update : Fri Oct 24 11:52:57 2014
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\102314\
Data File : 0513A 05.d
Signal(s) : FID1A.ch
Acq On : 13 May 2014 10:49 am
Operator :
Sample : STD DRO 10 PPM 14D09595
Misc :
ALS Vial : 5 Sample Multiplier: 1

Integration File: events.e
Quant Time: Oct 24 11:54:16 2014
Quant Method : C:\msdchem\1\methods\LA31J23N.m
Quant Title :
QLast Update : Fri Oct 24 11:53:42 2014
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :

Compound	R.T.	Response	Conc	Units	
System Monitoring Compounds					
3) S o-terphenyl	4.87	13786187	0.3787231	ppm	m
Spiked Amount 0.0200 Range 50 - 150		Recovery	= 1893.62%#		
Target Compounds					
1) H,M C10-C28 Diesel Range	3.23	272542640	8.9036017	ppm	
2) H,M C28-C40 Oil Range	0.00	0	N.D.	ppm	

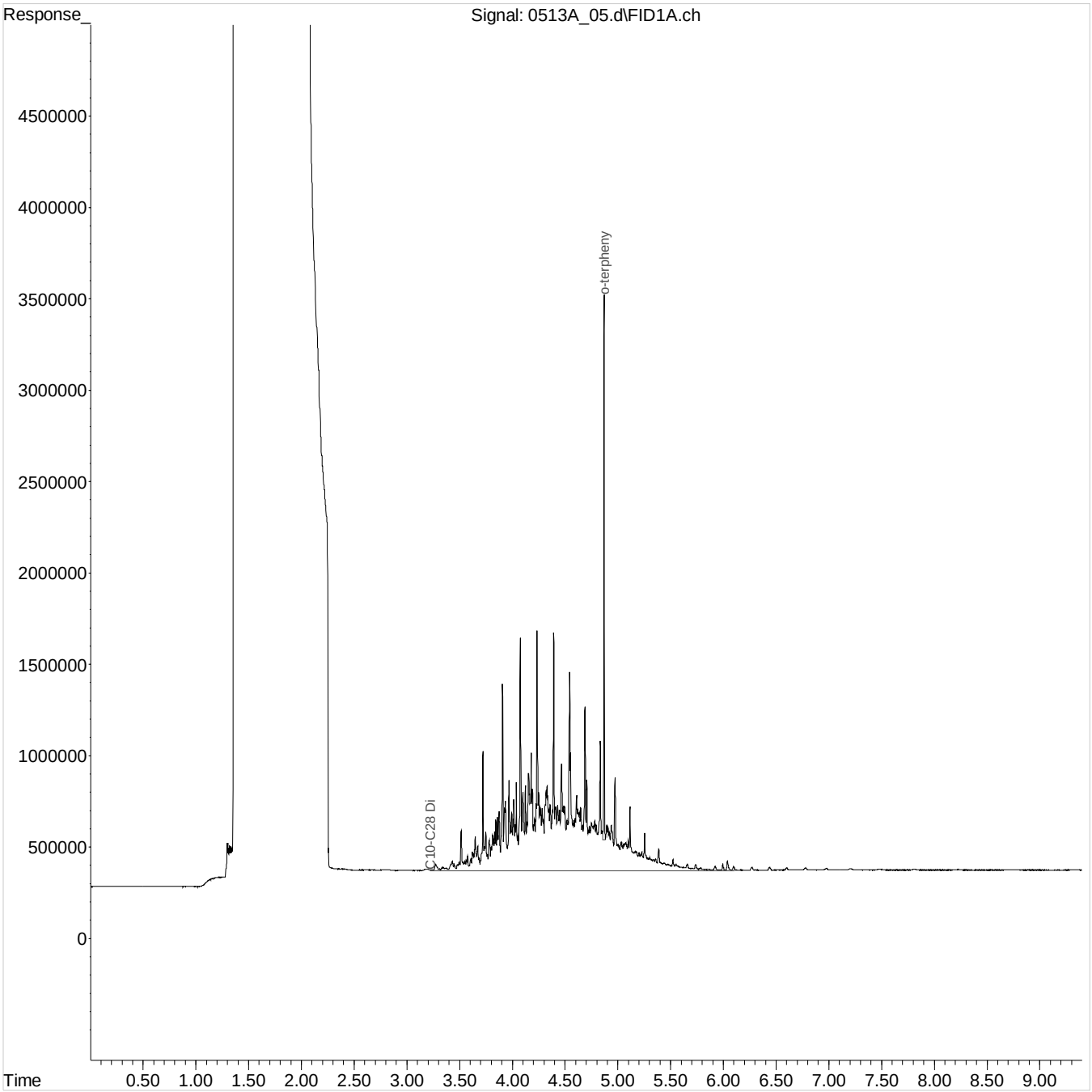
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\102314\
Data File : 0513A 05.d
Signal(s) : FID1A.ch
Acq On : 13 May 2014 10:49 am
Operator :
Sample : STD DRO 10 PPM 14D09595
Misc :
ALS Vial : 5 Sample Multiplier: 1

Integration File: events.e
Quant Time: Oct 24 11:54:16 2014
Quant Method : C:\msdchem\1\methods\LA31J23N.m
Quant Title :
QLast Update : Fri Oct 24 11:53:42 2014
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\102314\
Data File : 0513A 06.d
Signal(s) : FID1A.ch
Acq On : 13 May 2014 11:09 am
Operator :
Sample : STD DRO 20 PPM 14D09595
Misc :
ALS Vial : 6 Sample Multiplier: 1

Integration File: events.e
Quant Time: Oct 24 11:54:50 2014
Quant Method : C:\msdchem\1\methods\LA31J23N.m
Quant Title :
QLast Update : Fri Oct 24 11:54:23 2014
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :

Compound	R.T.	Response	Conc	Units	
System Monitoring Compounds					
3) S o-terphenyl	4.87	16821336	0.4704436	ppm	m
Spiked Amount 0.0200 Range 50 - 150 Recovery = 2352.22%#					
Target Compounds					
1) H,M C10-C28 Diesel Range	3.23	543843175	18.4405656	ppm	
2) H,M C28-C40 Oil Range	0.00	0	N.D.	ppm	

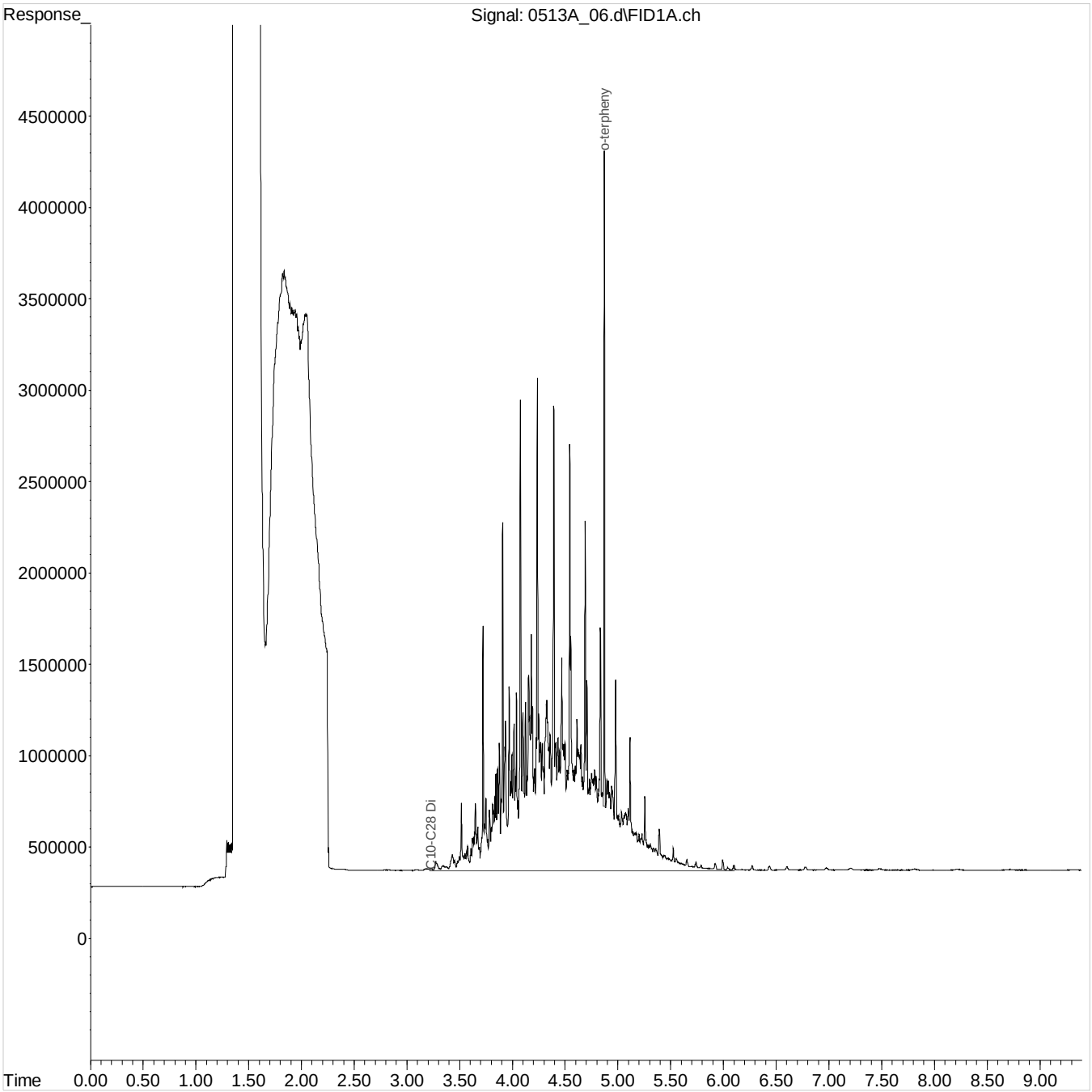
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\102314\
Data File : 0513A 06.d
Signal(s) : FID1A.ch
Acq On : 13 May 2014 11:09 am
Operator :
Sample : STD DRO 20 PPM 14D09595
Misc :
ALS Vial : 6 Sample Multiplier: 1

Integration File: events.e
Quant Time: Oct 24 11:54:50 2014
Quant Method : C:\msdchem\1\methods\LA31J23N.m
Quant Title :
QLast Update : Fri Oct 24 11:54:23 2014
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\102314\
Data File : 0513A 08.d
Signal(s) : FID1A.ch
Acq On : 13 May 2014 11:49 am
Operator :
Sample : STD DRO 60 PPM 14D09595
Misc :
ALS Vial : 8 Sample Multiplier: 1

Integration File: events.e
Quant Time: Oct 24 11:55:51 2014
Quant Method : C:\msdchem\1\methods\LA31J23N.m
Quant Title :
QLast Update : Fri Oct 24 11:54:57 2014
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :

Compound	R.T.	Response	Conc	Units
System Monitoring Compounds				
3) S o-terphenyl	0.00	0	N.D.	ppm d
Spiked Amount 0.0200 Range 50 - 150 Recovery = 0.00%#				
Target Compounds				
1) H,M C10-C28 Diesel Range	3.23	1515189206	52.3982393	ppm
2) H,M C28-C40 Oil Range	0.00	0	N.D.	ppm

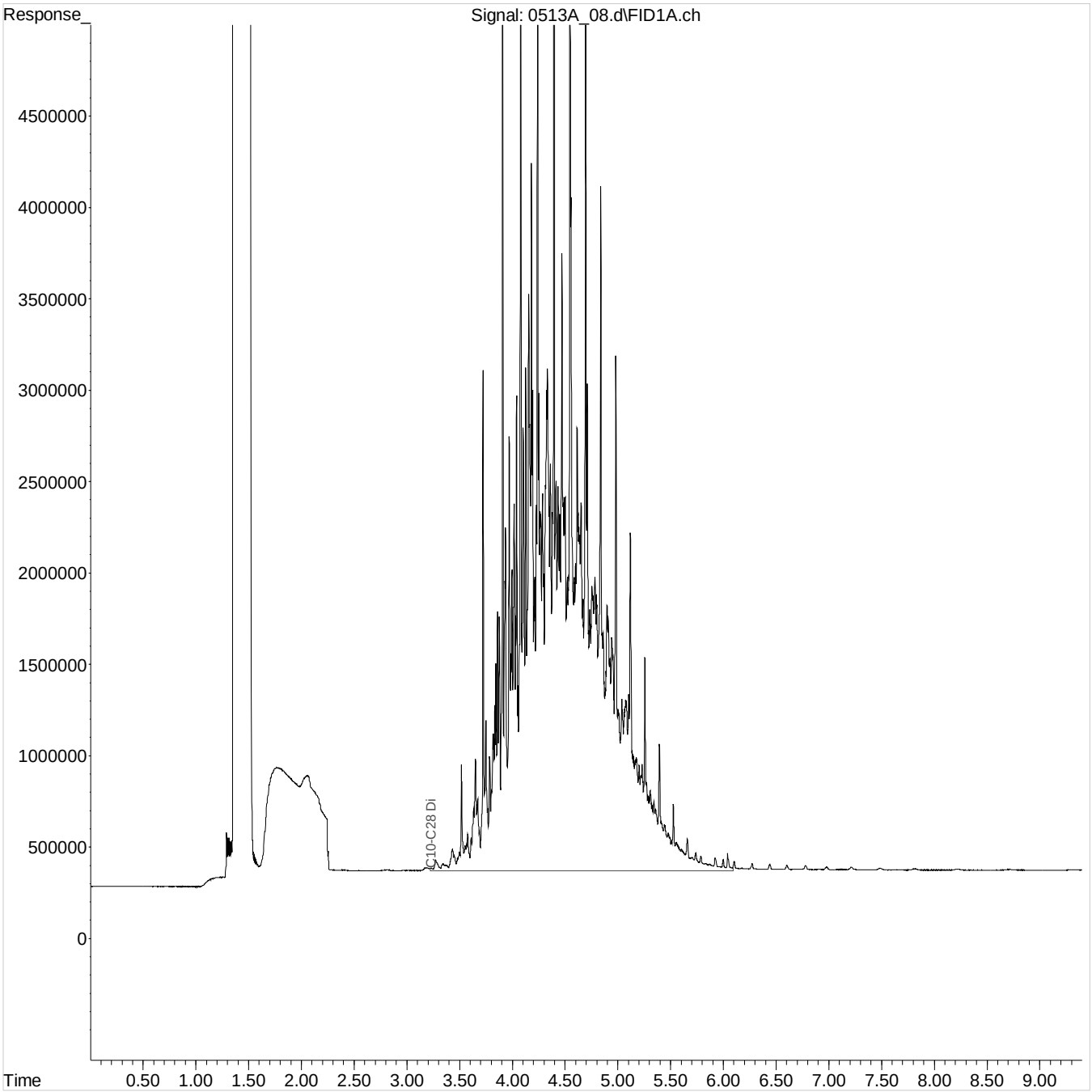
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\102314\
Data File : 0513A 08.d
Signal(s) : FID1A.ch
Acq On : 13 May 2014 11:49 am
Operator :
Sample : STD DRO 60 PPM 14D09595
Misc :
ALS Vial : 8 Sample Multiplier: 1

Integration File: events.e
Quant Time: Oct 24 11:55:51 2014
Quant Method : C:\msdchem\1\methods\LA31J23N.m
Quant Title :
QLast Update : Fri Oct 24 11:54:57 2014
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\102314\
Data File : 0513A 09.d
Signal(s) : FID1A.ch
Acq On : 13 May 2014 12:09 pm
Operator :
Sample : STD DRO 40 PPM 14D09595
Misc :
ALS Vial : 7 Sample Multiplier: 1

Integration File: events.e
Quant Time: Oct 24 11:56:37 2014
Quant Method : C:\msdchem\1\methods\LA31J23N.m
Quant Title :
QLast Update : Fri Oct 24 11:55:56 2014
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :

Compound	R.T.	Response	Conc	Units	
System Monitoring Compounds					
3) S o-terphenyl	4.87	27056918	0.7680533	ppm	m
Spiked Amount 0.0200 Range 50 - 150 Recovery = 3840.27%#					
Target Compounds					
1) H,M C10-C28 Diesel Range	3.23	1033316588	36.6631461	ppm	
2) H,M C28-C40 Oil Range	0.00	0	N.D.	ppm	

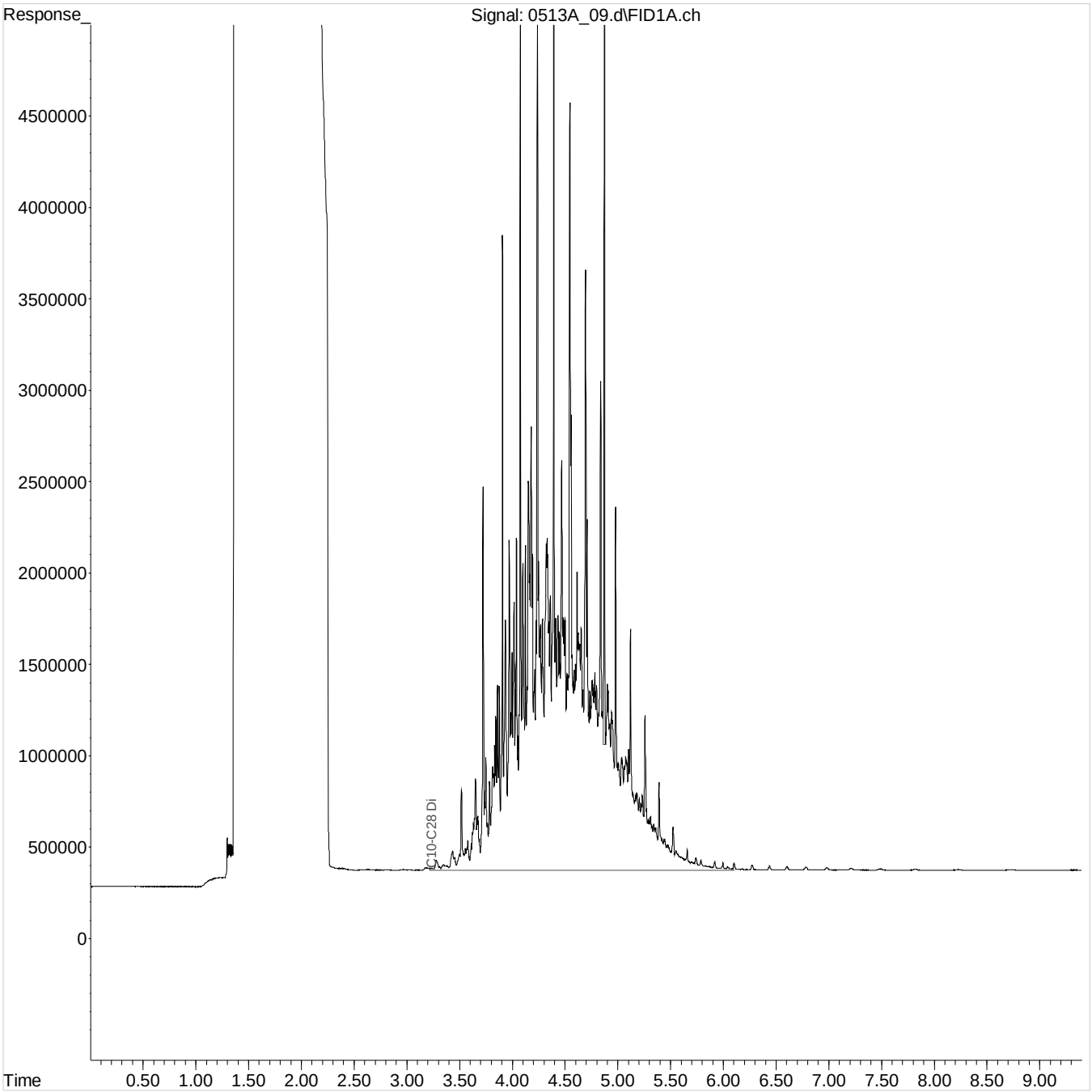
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\102314\
Data File : 0513A 09.d
Signal(s) : FID1A.ch
Acq On : 13 May 2014 12:09 pm
Operator :
Sample : STD DRO 40 PPM 14D09595
Misc :
ALS Vial : 7 Sample Multiplier: 1

Integration File: events.e
Quant Time: Oct 24 11:56:37 2014
Quant Method : C:\msdchem\1\methods\LA31J23N.m
Quant Title :
QLast Update : Fri Oct 24 11:55:56 2014
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\102314\
Data File : 0513A 10.d
Signal(s) : FID1A.ch
Acq On : 13 May 2014 12:28 pm
Operator :
Sample : STD DRO 100 PPM 14D09595
Misc :
ALS Vial : 9 Sample Multiplier: 1

Integration File: events.e
Quant Time: Oct 24 11:57:20 2014
Quant Method : C:\msdchem\1\methods\LA31J23N.m
Quant Title :
QLast Update : Fri Oct 24 11:56:43 2014
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :

Compound	R.T.	Response	Conc	Units
System Monitoring Compounds				
3) S o-terphenyl	0.00	0	N.D.	ppm d
Spiked Amount 0.0200 Range 50 - 150 Recovery = 0.00%#				
Target Compounds				
1) H,M C10-C28 Diesel Range	3.23	2523605106	90.8026103	ppm
2) H,M C28-C40 Oil Range	0.00	0	N.D.	ppm

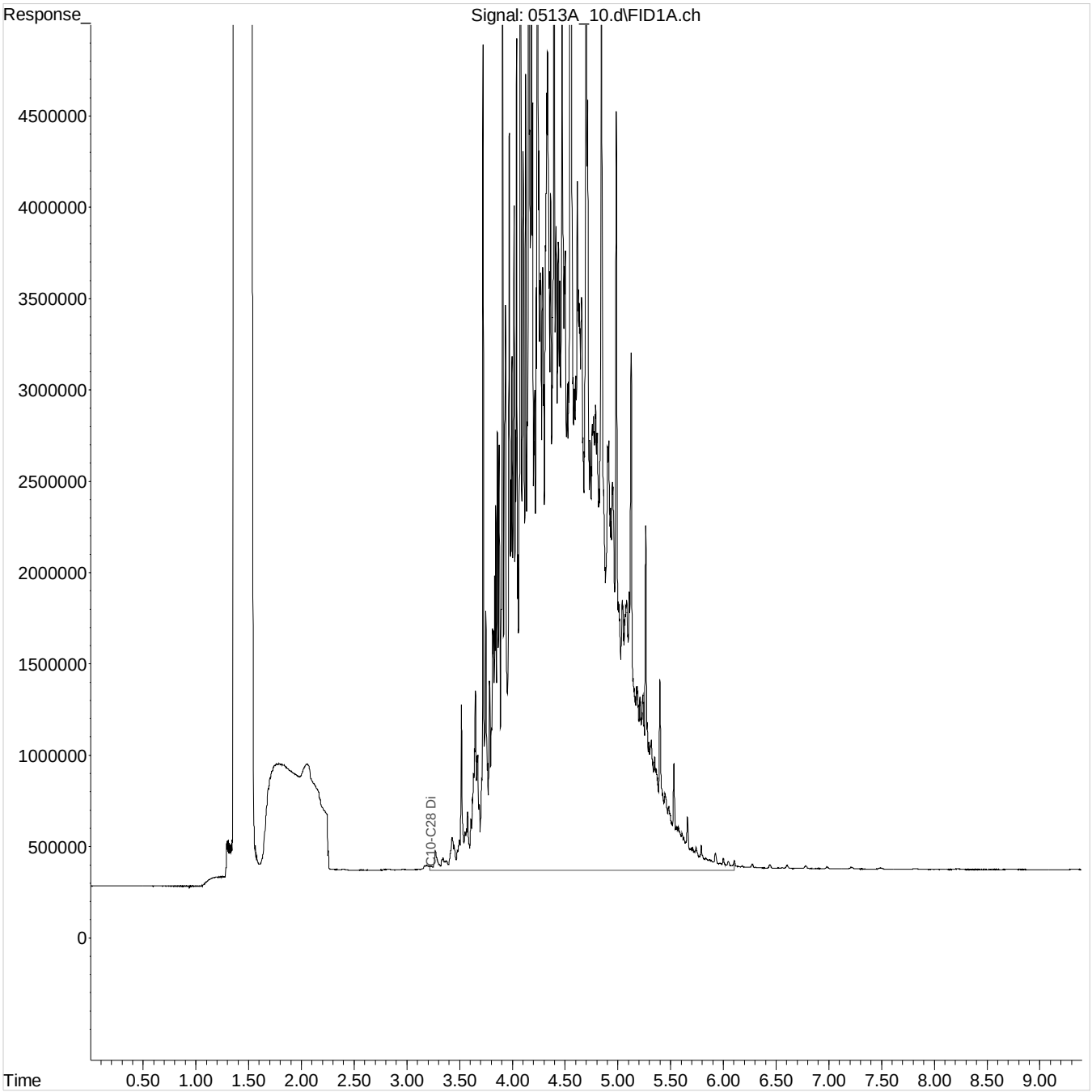
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\102314\
Data File : 0513A 10.d
Signal(s) : FID1A.ch
Acq On : 13 May 2014 12:28 pm
Operator :
Sample : STD DRO 100 PPM 14D09595
Misc :
ALS Vial : 9 Sample Multiplier: 1

Integration File: events.e
Quant Time: Oct 24 11:57:20 2014
Quant Method : C:\msdchem\1\methods\LA31J23N.m
Quant Title :
QLast Update : Fri Oct 24 11:56:43 2014
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\102314\
Data File : 0513A 11.d
Signal(s) : FID1A.ch
Acq On : 13 May 2014 12:47 pm
Operator :
Sample : STD DRO 200 PPM 14D09595
Misc :
ALS Vial : 10 Sample Multiplier: 1

Integration File: events.e
Quant Time: Oct 24 11:57:52 2014
Quant Method : C:\msdchem\1\methods\LA31J23N.m
Quant Title :
QLast Update : Fri Oct 24 11:57:27 2014
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :

Compound	R.T.	Response	Conc	Units
System Monitoring Compounds				
3) S o-terphenyl	0.00	0	N.D.	ppm d
Spiked Amount 0.0200 Range 50 - 150 Recovery = 0.00%#				
Target Compounds				
1) H,M C10-C28 Diesel Range	3.23	4962747292	180.9435752	ppm
2) H,M C28-C40 Oil Range	0.00	0	N.D.	ppm

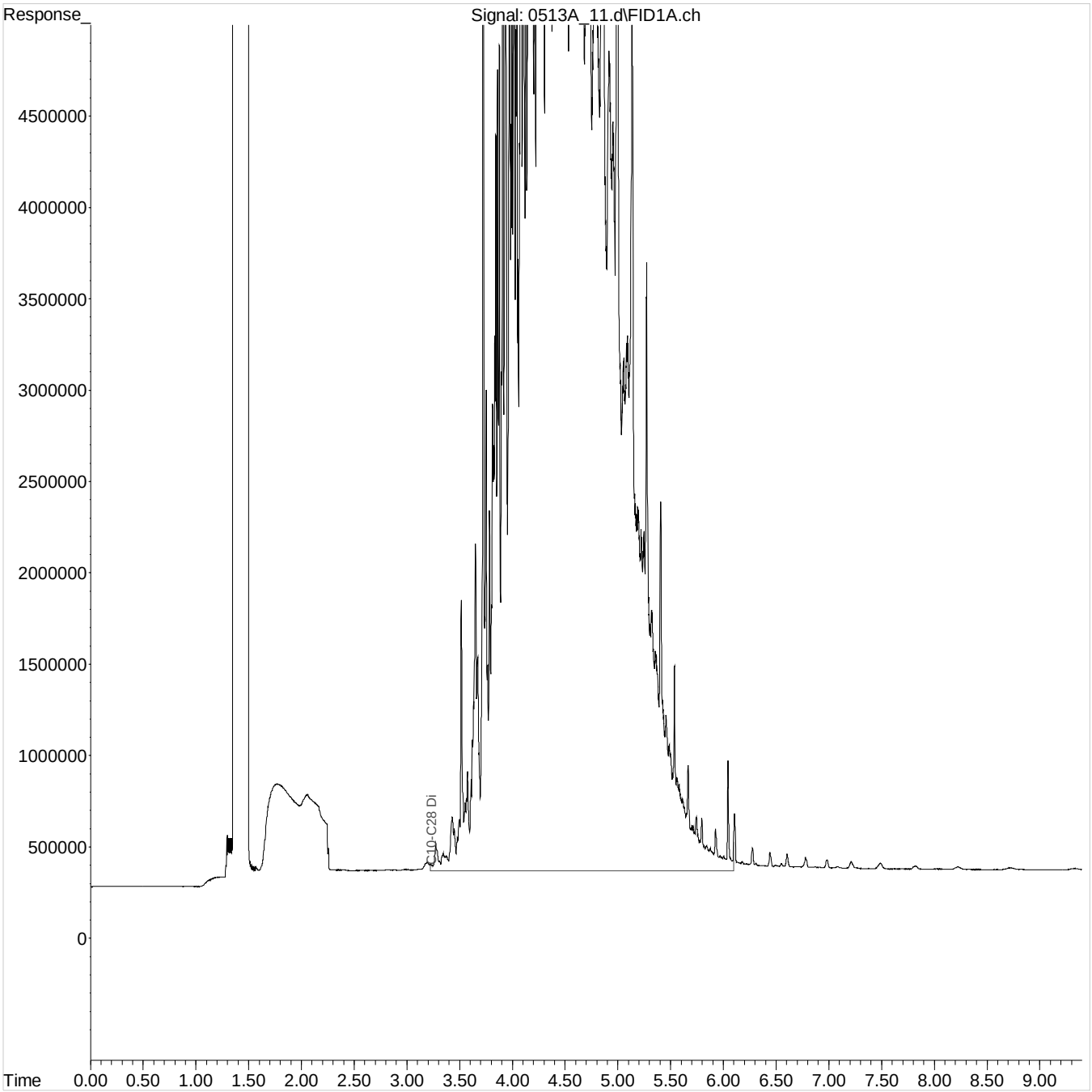
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\102314\
Data File : 0513A 11.d
Signal(s) : FID1A.ch
Acq On : 13 May 2014 12:47 pm
Operator :
Sample : STD DRO 200 PPM 14D09595
Misc :
ALS Vial : 10 Sample Multiplier: 1

Integration File: events.e
Quant Time: Oct 24 11:57:52 2014
Quant Method : C:\msdchem\1\methods\LA31J23N.m
Quant Title :
QLast Update : Fri Oct 24 11:57:27 2014
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\102314\
Data File : 1023 27.d
Signal(s) : FID1A.ch
Acq On : 23 Oct 2014 7:38 pm
Operator : 546
Sample : STD 10W30 1 PPM 14J23427
Misc :
ALS Vial : 20 Sample Multiplier: 1

Integration File: events.e
Quant Time: Oct 24 12:01:34 2014
Quant Method : C:\msdchem\1\methods\LA31J23N.m
Quant Title :
QLast Update : Fri Oct 24 11:57:57 2014
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :

Compound	R.T.	Response	Conc	Units
System Monitoring Compounds				
3) S o-terphenyl	0.00	0	N.D.	ppm
Spiked Amount 0.0200 Range 50 - 150		Recovery	=	0.00%#
Target Compounds				
1) H,M C10-C28 Diesel Range	0.00	0	N.D.	ppm
2) H,M C28-C40 Oil Range	5.98	42012731	NoCal	ppm

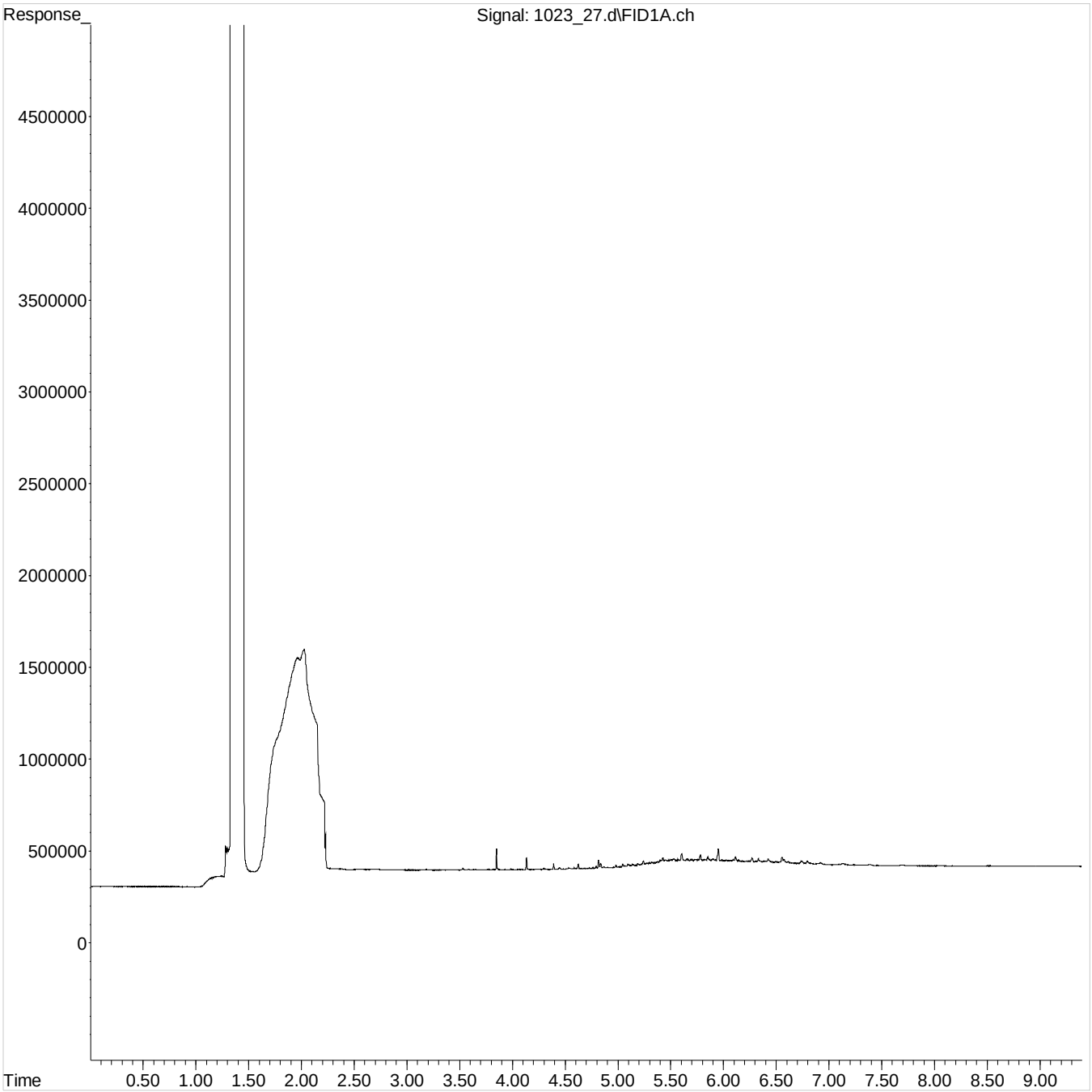
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\102314\
Data File : 1023 27.d
Signal(s) : FID1A.ch
Acq On : 23 Oct 2014 7:38 pm
Operator : 546
Sample : STD 10W30 1 PPM 14J23427
Misc :
ALS Vial : 20 Sample Multiplier: 1

Integration File: events.e
Quant Time: Oct 24 12:01:34 2014
Quant Method : C:\msdchem\1\methods\LA31J23N.m
Quant Title :
QLast Update : Fri Oct 24 11:57:57 2014
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\102314\
Data File : 1023 28.d
Signal(s) : FID1A.ch
Acq On : 23 Oct 2014 7:56 pm
Operator : 546
Sample : STD 10W30 2 PPM 14J23427
Misc :
ALS Vial : 21 Sample Multiplier: 1

Integration File: events.e
Quant Time: Oct 24 12:02:26 2014
Quant Method : C:\msdchem\1\methods\LA31J23N.m
Quant Title :
QLast Update : Fri Oct 24 12:01:44 2014
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :

Compound	R.T.	Response	Conc	Units
System Monitoring Compounds				
3) S o-terphenyl	0.00	0	N.D.	ppm
Spiked Amount 0.0200 Range 50 - 150		Recovery	=	0.00%#
Target Compounds				
1) H,M C10-C28 Diesel Range	0.00	0	N.D.	ppm
2) H,M C28-C40 Oil Range	5.98	53455226	1.2723578	ppm

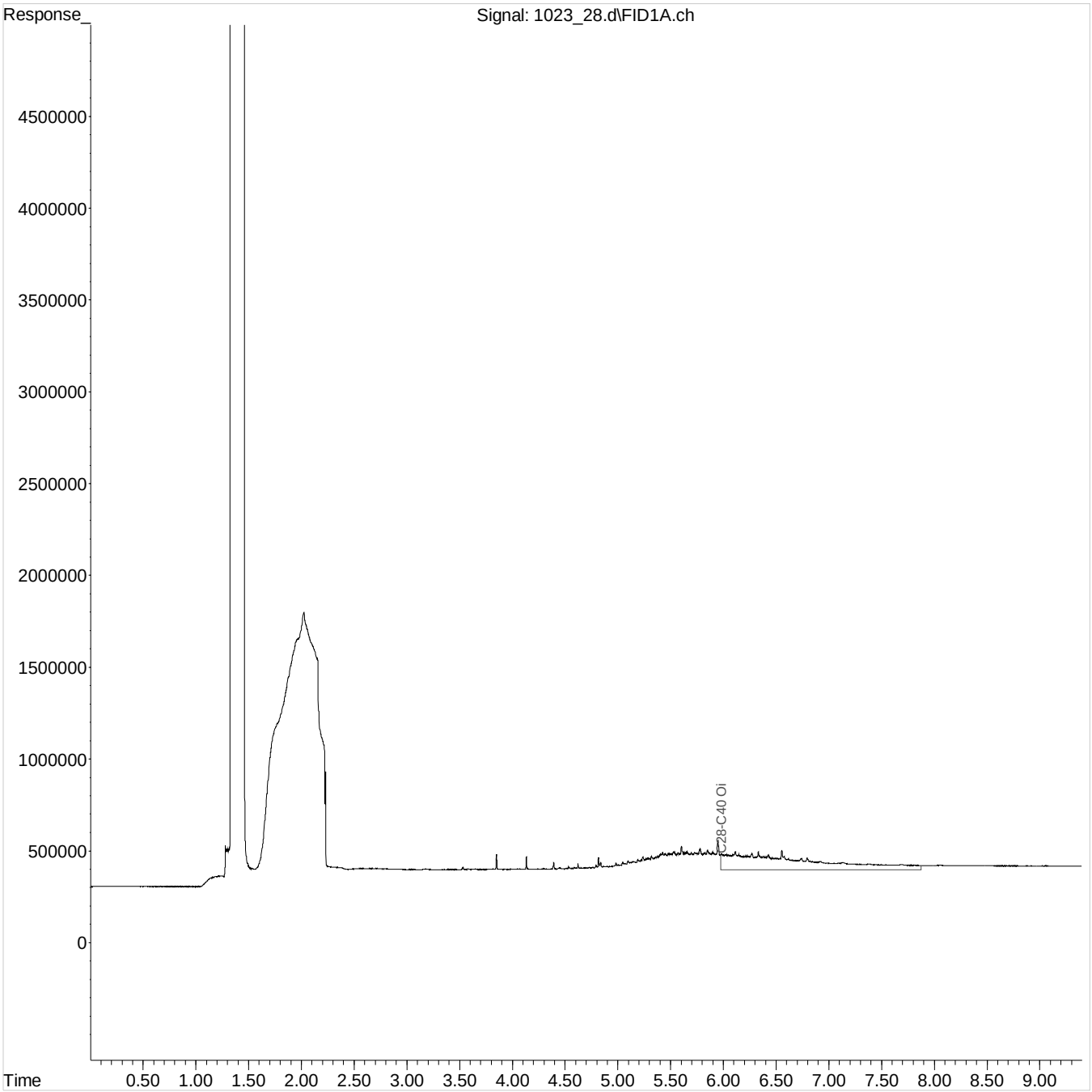
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\102314\
Data File : 1023 28.d
Signal(s) : FID1A.ch
Acq On : 23 Oct 2014 7:56 pm
Operator : 546
Sample : STD 10W30 2 PPM 14J23427
Misc :
ALS Vial : 21 Sample Multiplier: 1

Integration File: events.e
Quant Time: Oct 24 12:02:26 2014
Quant Method : C:\msdchem\1\methods\LA31J23N.m
Quant Title :
QLast Update : Fri Oct 24 12:01:44 2014
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\102314\
Data File : 1023 29.d
Signal(s) : FID1A.ch
Acq On : 23 Oct 2014 8:14 pm
Operator : 546
Sample : STD 10W30 4 PPM 14J23427
Misc :
ALS Vial : 22 Sample Multiplier: 1

Integration File: events.e
Quant Time: Oct 24 12:03:21 2014
Quant Method : C:\msdchem\1\methods\LA31J23N.m
Quant Title :
QLast Update : Fri Oct 24 12:02:33 2014
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :

Compound	R.T.	Response	Conc	Units
System Monitoring Compounds				
3) S o-terphenyl	0.00	0	N.D.	ppm
Spiked Amount 0.0200 Range 50 - 150		Recovery	=	0.00%#
Target Compounds				
1) H,M C10-C28 Diesel Range	0.00	0	N.D.	ppm
2) H,M C28-C40 Oil Range	5.98	76660055	4.0279519	ppm

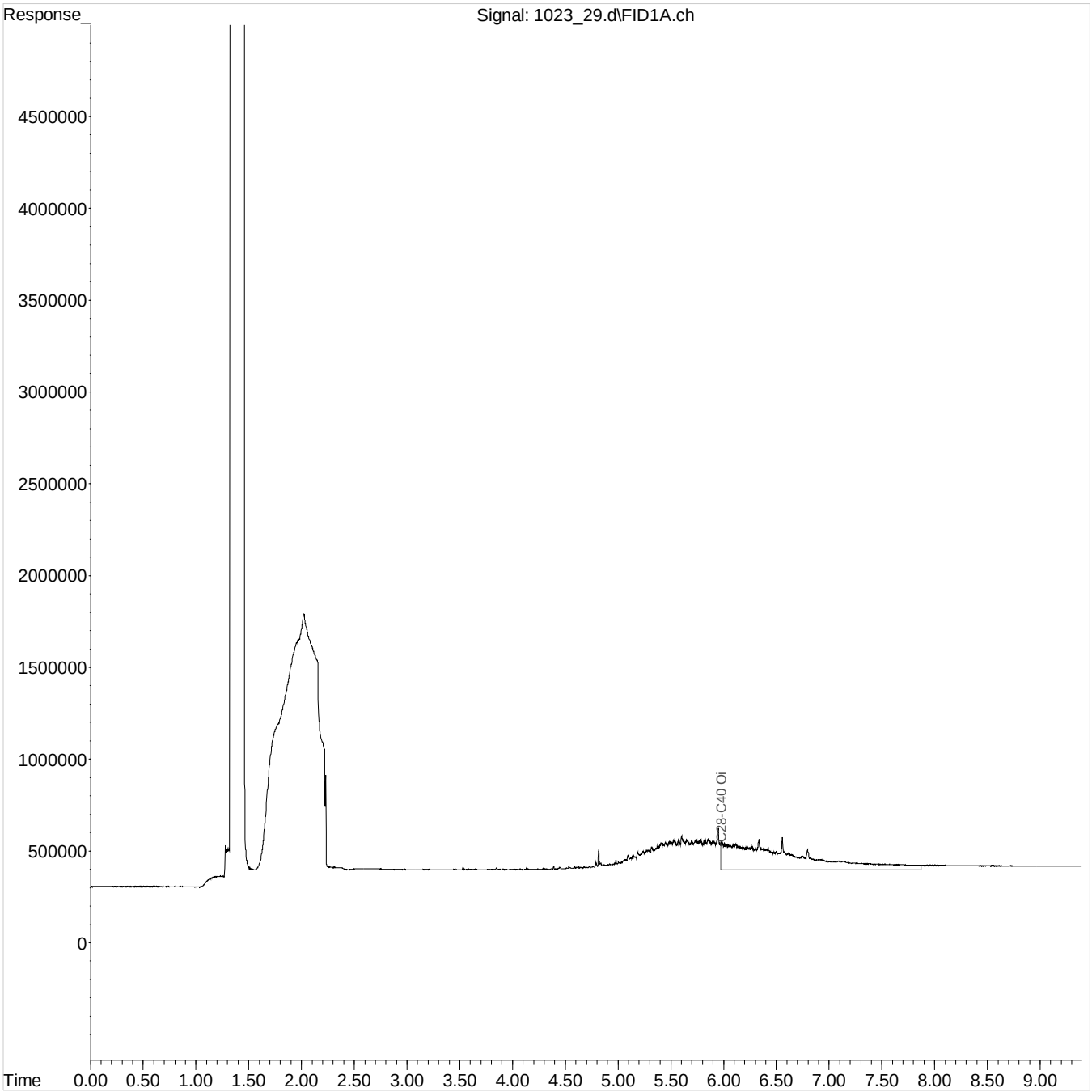
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\102314\
Data File : 1023 29.d
Signal(s) : FID1A.ch
Acq On : 23 Oct 2014 8:14 pm
Operator : 546
Sample : STD 10W30 4 PPM 14J23427
Misc :
ALS Vial : 22 Sample Multiplier: 1

Integration File: events.e
Quant Time: Oct 24 12:03:21 2014
Quant Method : C:\msdchem\1\methods\LA31J23N.m
Quant Title :
QLast Update : Fri Oct 24 12:02:33 2014
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\102314\
Data File : 1023 30.d
Signal(s) : FID1A.ch
Acq On : 23 Oct 2014 8:32 pm
Operator : 546
Sample : STD 10W30 10 PPM 14J23427
Misc :
ALS Vial : 23 Sample Multiplier: 1

Integration File: events.e
Quant Time: Oct 24 12:04:06 2014
Quant Method : C:\msdchem\1\methods\LA31J23N.m
Quant Title :
QLast Update : Fri Oct 24 12:03:27 2014
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :

Compound	R.T.	Response	Conc	Units
System Monitoring Compounds				
3) S o-terphenyl	0.00	0	N.D.	ppm d
Spiked Amount 0.0200 Range 50 - 150 Recovery = 0.00%#				
Target Compounds				
1) H,M C10-C28 Diesel Range	0.00	0	N.D.	ppm
2) H,M C28-C40 Oil Range	5.98	146181691	10.0281954	ppm

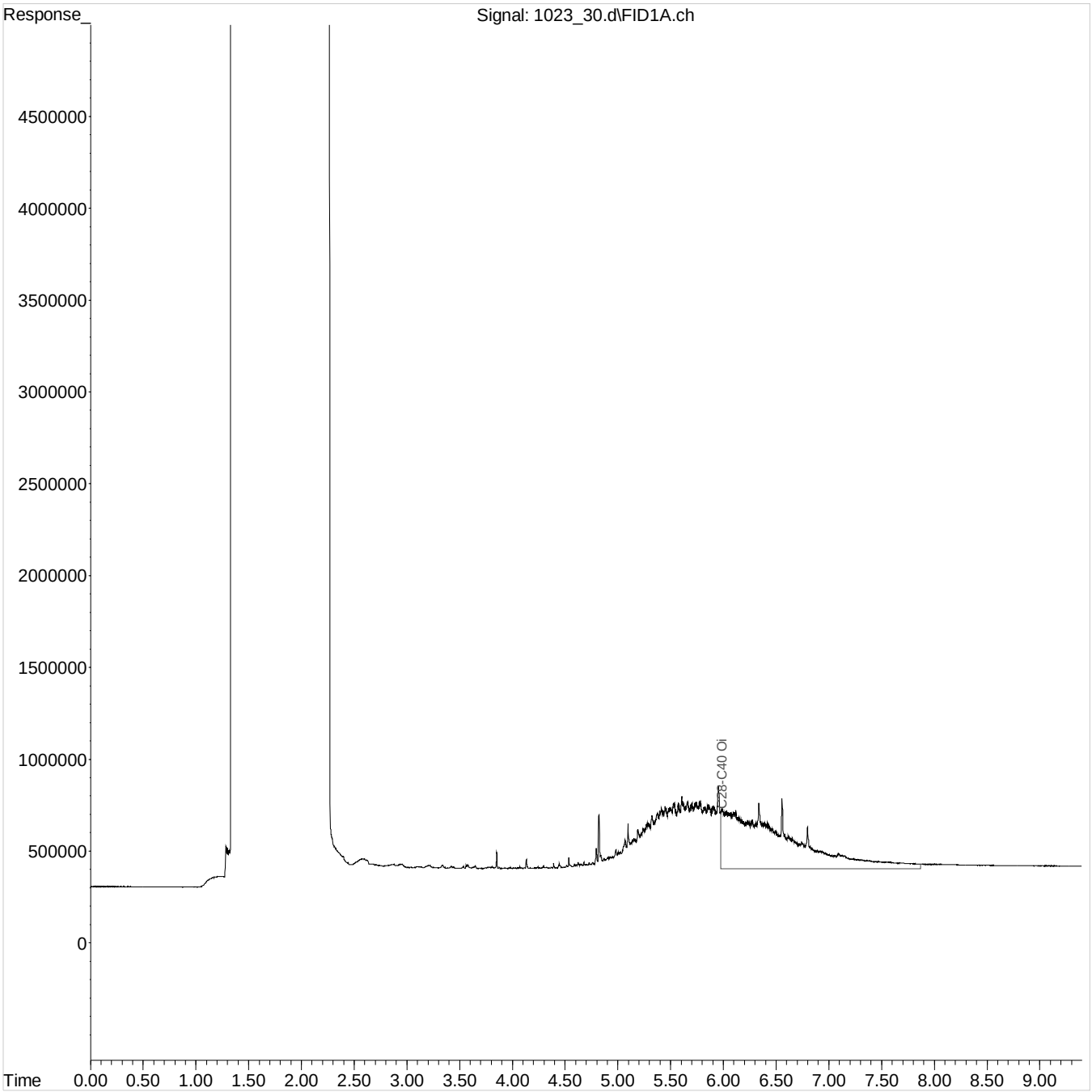
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\102314\
Data File : 1023 30.d
Signal(s) : FID1A.ch
Acq On : 23 Oct 2014 8:32 pm
Operator : 546
Sample : STD 10W30 10 PPM 14J23427
Misc :
ALS Vial : 23 Sample Multiplier: 1

Integration File: events.e
Quant Time: Oct 24 12:04:06 2014
Quant Method : C:\msdchem\1\methods\LA31J23N.m
Quant Title :
QLast Update : Fri Oct 24 12:03:27 2014
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\102314\
Data File : 1023 31.d
Signal(s) : FID1A.ch
Acq On : 23 Oct 2014 8:50 pm
Operator : 546
Sample : STD 10W30 20 PPM 14J23427
Misc :
ALS Vial : 24 Sample Multiplier: 1

Integration File: events.e
Quant Time: Oct 24 12:05:04 2014
Quant Method : C:\msdchem\1\methods\LA31J23N.m
Quant Title :
QLast Update : Fri Oct 24 12:04:20 2014
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :

Compound	R.T.	Response	Conc	Units
System Monitoring Compounds				
3) S o-terphenyl	0.00	0	N.D.	ppm d
Spiked Amount 0.0200 Range 50 - 150 Recovery = 0.00%#				
Target Compounds				
1) H,M C10-C28 Diesel Range	0.00	0	N.D.	ppm
2) H,M C28-C40 Oil Range	5.98	271592483	20.8438686	ppm

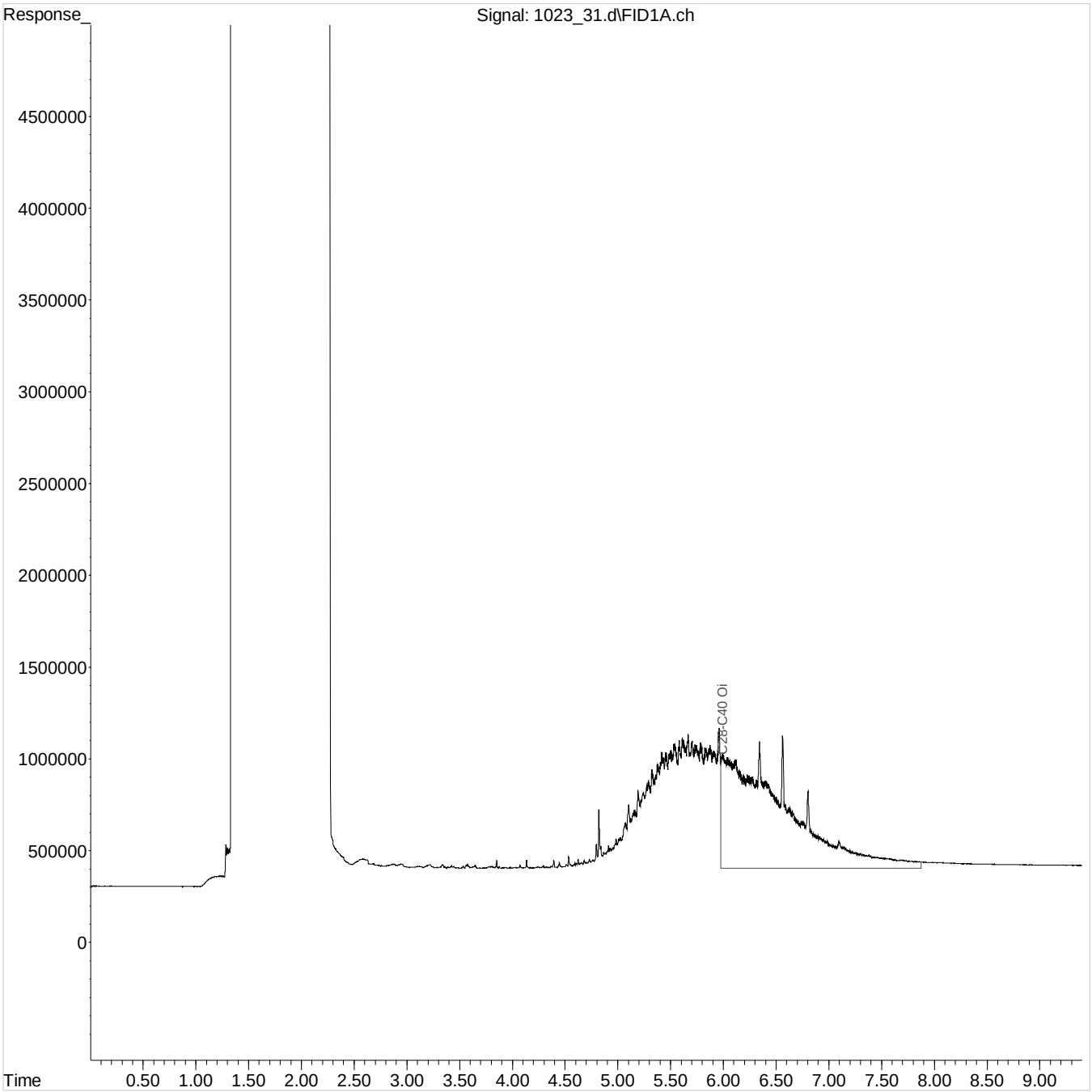
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\102314\
Data File : 1023 31.d
Signal(s) : FID1A.ch
Acq On : 23 Oct 2014 8:50 pm
Operator : 546
Sample : STD 10W30 20 PPM 14J23427
Misc :
ALS Vial : 24 Sample Multiplier: 1

Integration File: events.e
Quant Time: Oct 24 12:05:04 2014
Quant Method : C:\msdchem\1\methods\LA31J23N.m
Quant Title :
QLast Update : Fri Oct 24 12:04:20 2014
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\102314\
Data File : 1023 32.d
Signal(s) : FID1A.ch
Acq On : 23 Oct 2014 9:08 pm
Operator : 546
Sample : STD 10W30 40 PPM 14J23427
Misc :
ALS Vial : 25 Sample Multiplier: 1

Integration File: events.e
Quant Time: Oct 24 12:05:54 2014
Quant Method : C:\msdchem\1\methods\LA31J23N.m
Quant Title :
QLast Update : Fri Oct 24 12:05:10 2014
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :

Compound	R.T.	Response	Conc	Units
System Monitoring Compounds				
3) S o-terphenyl	0.00	0	N.D.	ppm d
Spiked Amount 0.0200 Range 50 - 150 Recovery = 0.00%#				
Target Compounds				
1) H,M C10-C28 Diesel Range	0.00	0	N.D.	ppm
2) H,M C28-C40 Oil Range	5.98	522220799	41.2925461	ppm

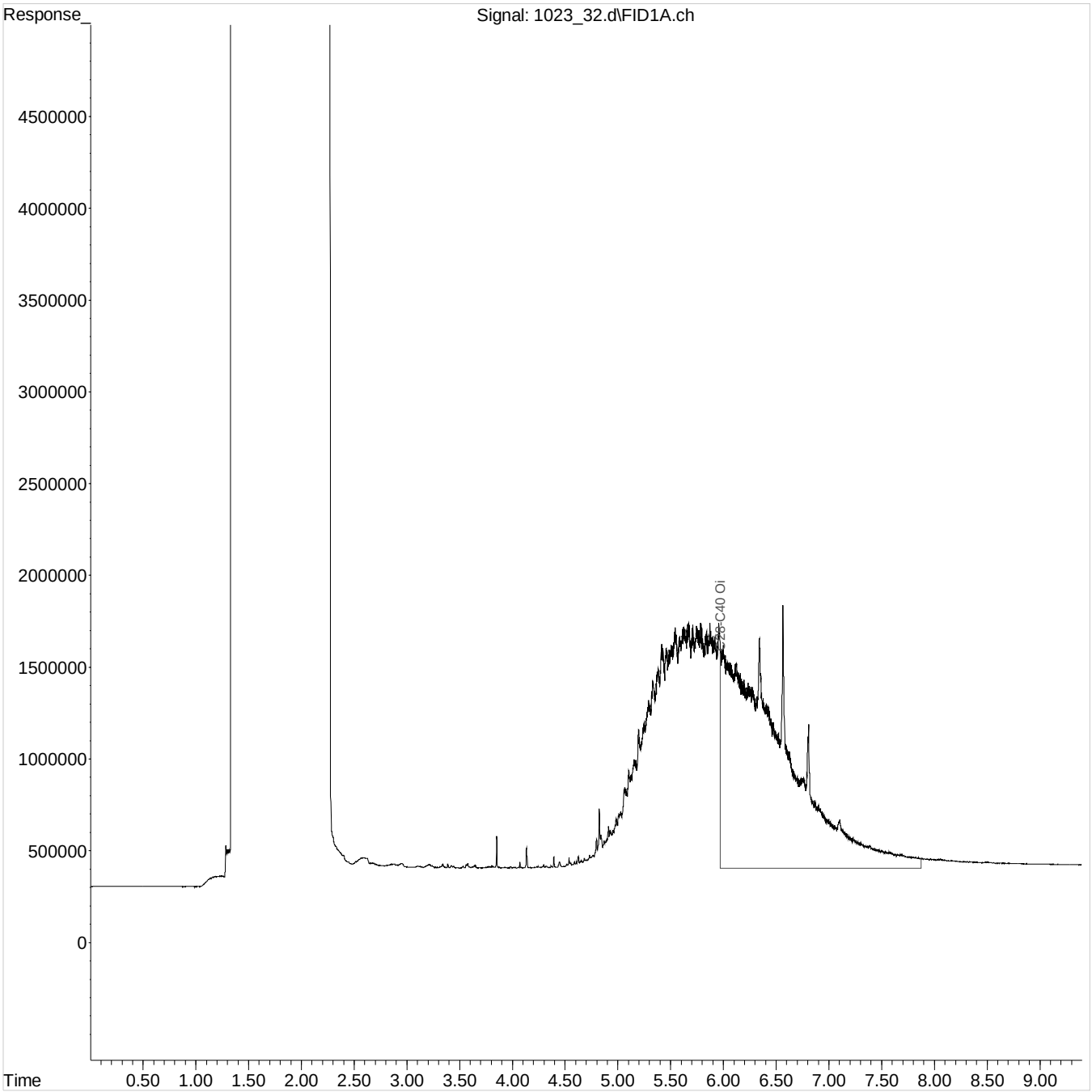
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\102314\
Data File : 1023 32.d
Signal(s) : FID1A.ch
Acq On : 23 Oct 2014 9:08 pm
Operator : 546
Sample : STD 10W30 40 PPM 14J23427
Misc :
ALS Vial : 25 Sample Multiplier: 1

Integration File: events.e
Quant Time: Oct 24 12:05:54 2014
Quant Method : C:\msdchem\1\methods\LA31J23N.m
Quant Title :
QLast Update : Fri Oct 24 12:05:10 2014
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\102314\
Data File : 1023 33.d
Signal(s) : FID1A.ch
Acq On : 23 Oct 2014 9:26 pm
Operator : 546
Sample : STD 10W30 50 PPM 14J23427
Misc :
ALS Vial : 26 Sample Multiplier: 1

Integration File: events.e
Quant Time: Oct 24 12:06:41 2014
Quant Method : C:\msdchem\1\methods\LA31J23N.m
Quant Title :
QLast Update : Fri Oct 24 12:06:00 2014
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :

Compound	R.T.	Response	Conc	Units
System Monitoring Compounds				
3) S o-terphenyl	0.00	0	N.D.	ppm d
Spiked Amount 0.0200 Range 50 - 150 Recovery = 0.00%#				
Target Compounds				
1) H,M C10-C28 Diesel Range	0.00	0	N.D.	ppm
2) H,M C28-C40 Oil Range	5.98	647480856	50.8030130	ppm

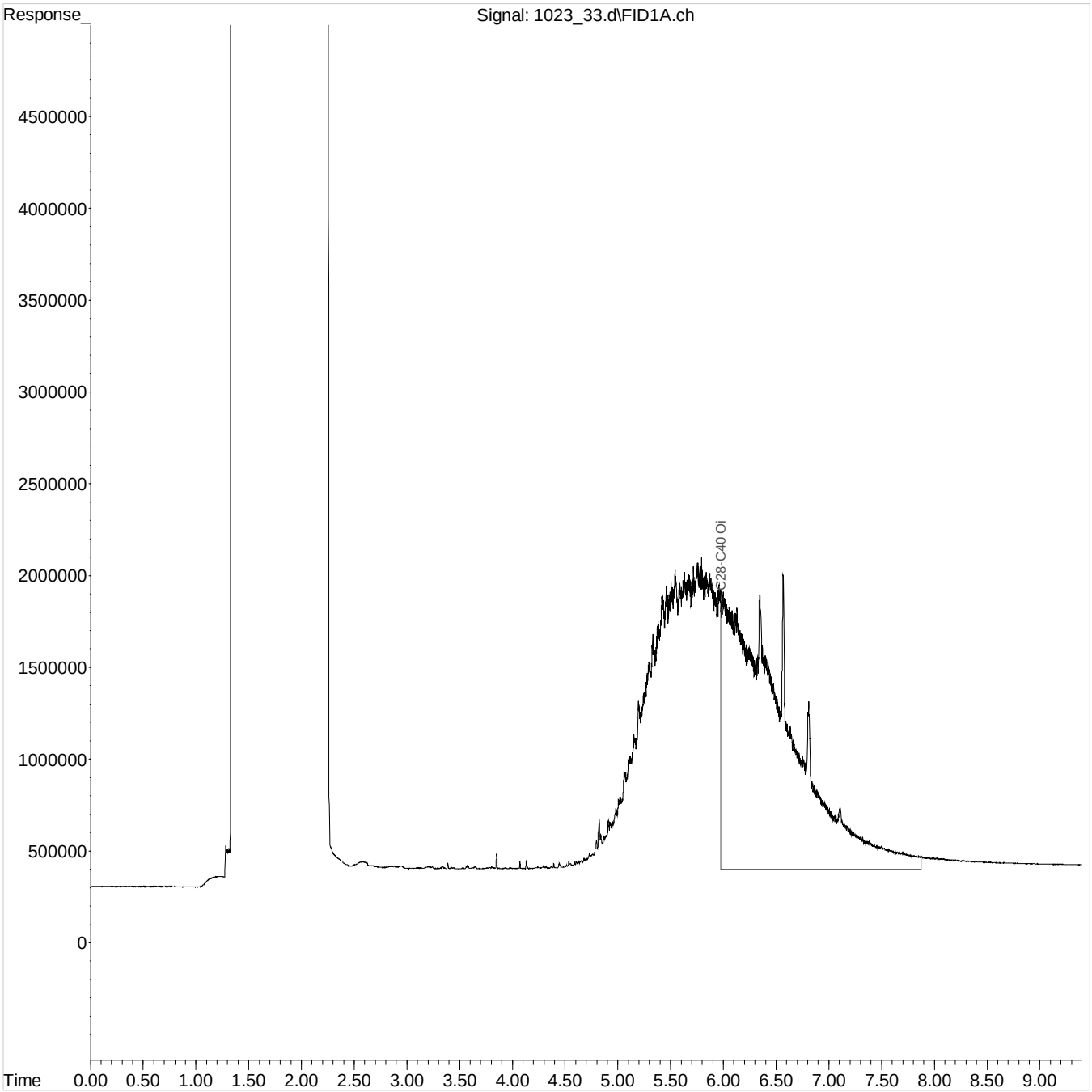
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\102314\
Data File : 1023 33.d
Signal(s) : FID1A.ch
Acq On : 23 Oct 2014 9:26 pm
Operator : 546
Sample : STD 10W30 50 PPM 14J23427
Misc :
ALS Vial : 26 Sample Multiplier: 1

Integration File: events.e
Quant Time: Oct 24 12:06:41 2014
Quant Method : C:\msdchem\1\methods\LA31J23N.m
Quant Title :
QLast Update : Fri Oct 24 12:06:00 2014
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\102314\
Data File : 1023 34.d
Signal(s) : FID1A.ch
Acq On : 23 Oct 2014 9:44 pm
Operator : 546
Sample : STD 10W30 100 PPM 14J23427
Misc :
ALS Vial : 27 Sample Multiplier: 1

Integration File: events.e
Quant Time: Oct 24 12:07:35 2014
Quant Method : C:\msdchem\1\methods\LA31J23N.m
Quant Title :
QLast Update : Fri Oct 24 12:06:48 2014
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :

Compound	R.T.	Response	Conc	Units
System Monitoring Compounds				
3) S o-terphenyl	0.00	0	N.D.	ppm d
Spiked Amount 0.0200 Range 50 - 150 Recovery = 0.00%#				
Target Compounds				
1) H,M C10-C28 Diesel Range	0.00	0	N.D.	ppm
2) H,M C28-C40 Oil Range	5.98	1290991781	102.9402933	ppm

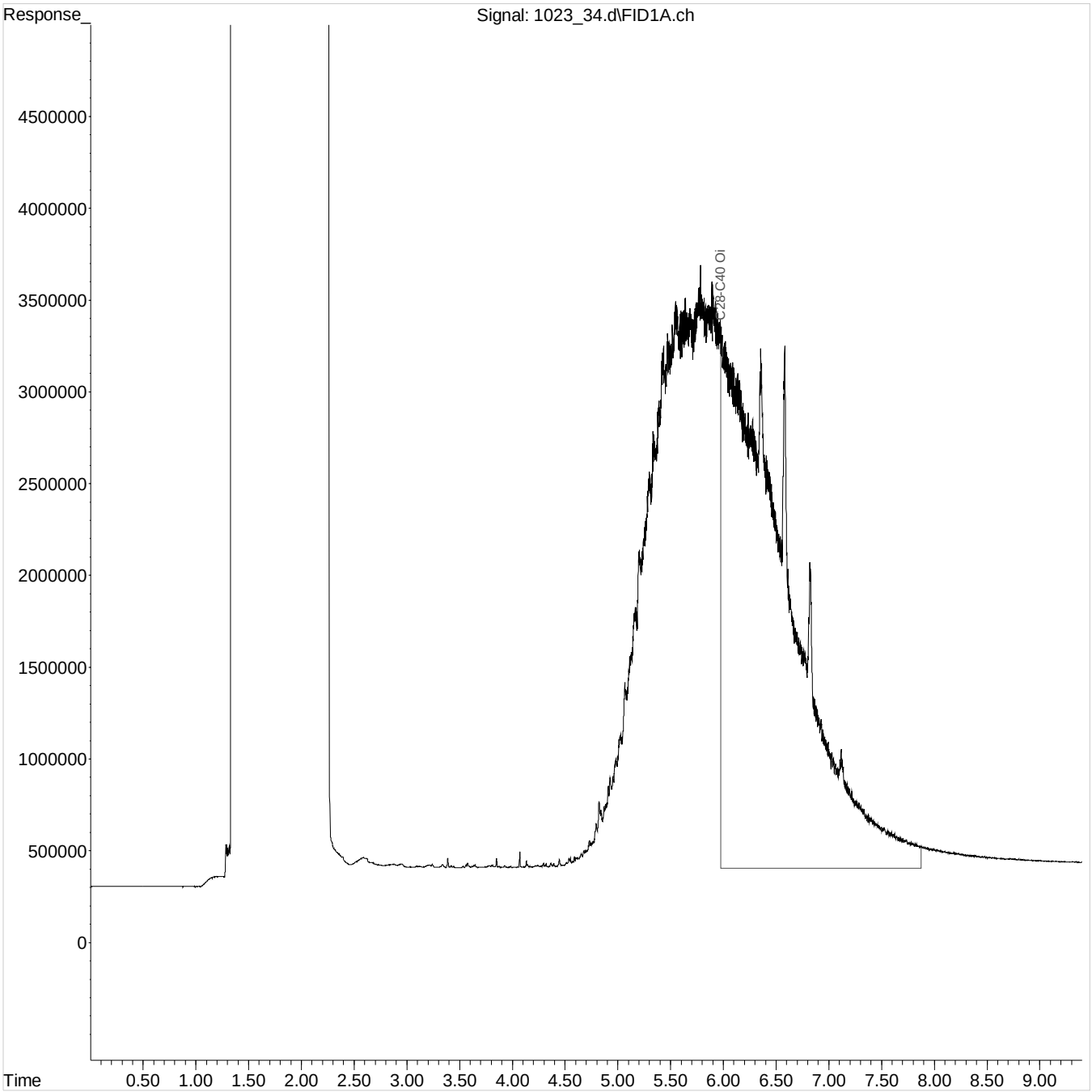
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\102314\
Data File : 1023 34.d
Signal(s) : FID1A.ch
Acq On : 23 Oct 2014 9:44 pm
Operator : 546
Sample : STD 10W30 100 PPM 14J23427
Misc :
ALS Vial : 27 Sample Multiplier: 1

Integration File: events.e
Quant Time: Oct 24 12:07:35 2014
Quant Method : C:\msdchem\1\methods\LA31J23N.m
Quant Title :
QLast Update : Fri Oct 24 12:06:48 2014
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\102314\
Data File : 1023 06.d
Signal(s) : FID1A.ch
Acq On : 23 Oct 2014 1:23 pm
Operator : 546
Sample : INSTBLK
Misc :
ALS Vial : 111 Sample Multiplier: 1

Integration File: events.e
Quant Time: Oct 23 13:59:09 2014
Quant Method : C:\msdchem\1\methods\EP31J22N.m
Quant Title :
QLast Update : Wed Oct 22 15:02:20 2014
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :

Compound	R.T.	Response	Conc	Units
System Monitoring Compounds				
23) S o-terphenyl	0.00	0	N.D.	ppm
Spiked Amount 0.0200 Range 50 - 150		Recovery	=	0.00%#
Target Compounds				
1) H,M C10-C20 Hydrocarbons	3.14	5046931	0.1291602	ppm
2) H,M C20-C34 Hydrocarbons	4.92	5265214	N.D.	ppm
3) H,M C20-C36 Hydrocarbons	4.98	7672474	NoCal	ppm
4) T,H,M Extractable Petroleum...	3.60	15969580	N.D.	ppm
5) H,M C12-C22 Hydrocarbons	3.60	3288346	0.0604076	ppm
6) H,M C22-C32 Hydrocarbons	5.19	3690675	N.D.	ppm
7) H,M C32-C40 Hydrocarbons	6.47	4814267	N.D.	ppm
8) H,M MISC. TPH (C10-C40)	3.14	18223529	N.D.	ppm
9) H,M TPH (GC/FID) HIGH FRA...	3.14	11784647	0.1718328	ppm
10) H,M C10-C28 Diesel Range	3.14	8421869	0.2971311	ppm
11) H,M C28-C40 Oil Range	5.98	8363488	N.D.	ppm
12) H,M C13-C22 Hydrocarbons	3.78	2696416	0.0630645	ppm
13) H,M C23-C32 Hydrocarbons	5.25	3431883	N.D.	ppm
14) h,m Diesel Range Organics	3.60	3550182	0.0270676	ppm
15) h,m Residual Range Organics	5.46	8880756	N.D.	ppm
16) h Hydraulic Fluid	0.00	1151804	NoCal	ppm
17) h #6 Fuel Oil	0.00	1151804	NoCal	ppm
18) h Kerosene	0.00	1151804	NoCal	ppm
19) h Mineral Spirits	0.00	1151804	NoCal	ppm
20) h Biodiesel	0.00	1151804	NoCal	ppm
21) h,m Diesel	3.14	5046931	0.1218041	ppm
22) h,m Motor Oil	4.92	9917335	N.D.	ppm

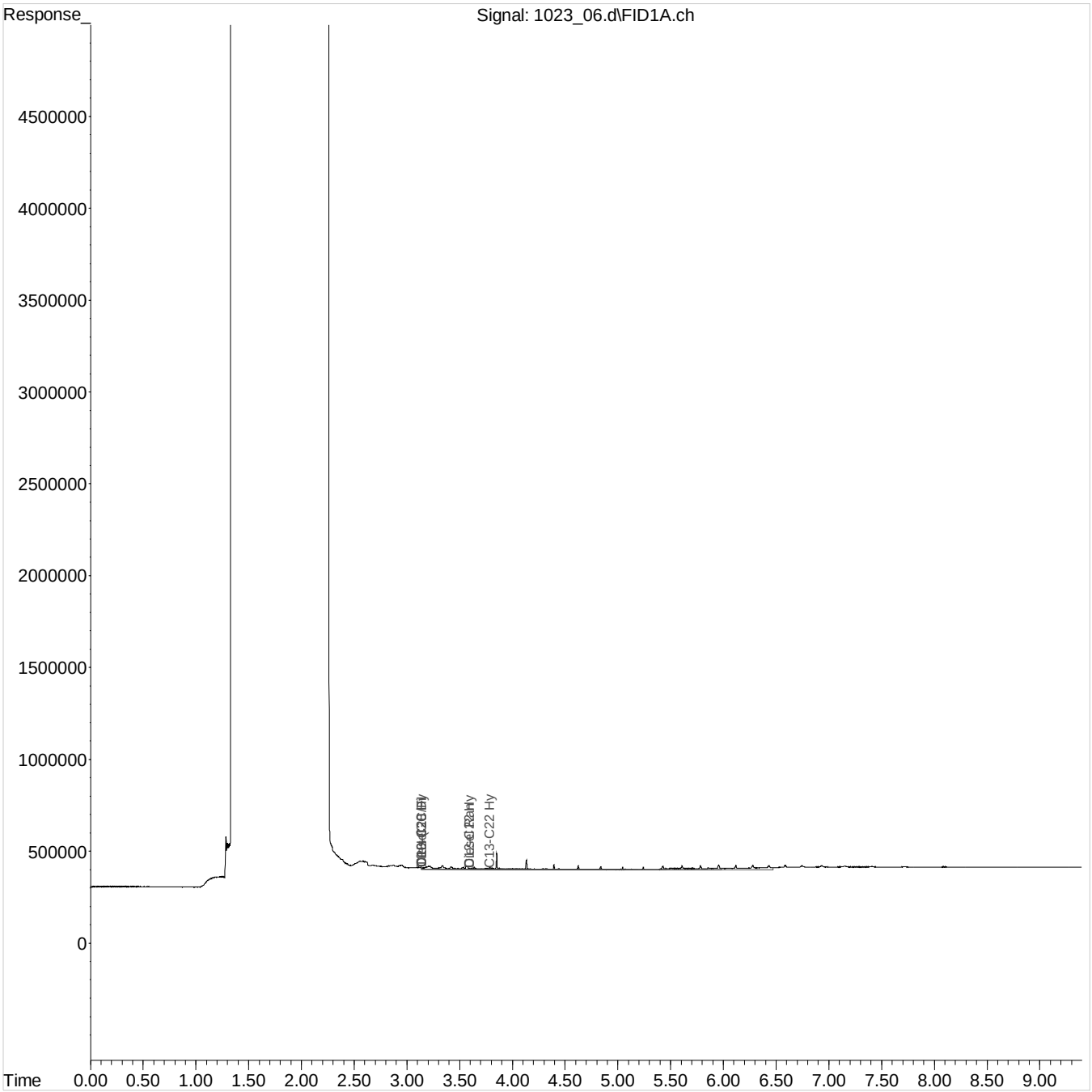
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\102314\
Data File : 1023 06.d
Signal(s) : FID1A.ch
Acq On : 23 Oct 2014 1:23 pm
Operator : 546
Sample : INSTBLK
Misc :
ALS Vial : 111 Sample Multiplier: 1

Integration File: events.e
Quant Time: Oct 23 13:59:09 2014
Quant Method : C:\msdchem\1\methods\EP31J22N.m
Quant Title :
QLast Update : Wed Oct 22 15:02:20 2014
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\102314\
Data File : 1023 06.d
Signal(s) : FID1A.ch
Acq On : 23 Oct 2014 1:23 pm
Operator : 546
Sample : INSTBLK
Misc :
ALS Vial : 111 Sample Multiplier: 1

Integration File: events.e
Quant Time: Oct 23 13:59:09 2014
Quant Method : C:\msdchem\1\methods\EP31J22N.m
Quant Title :
QLast Update : Wed Oct 22 15:02:20 2014
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :

Compound	R.T.	Response	Conc	Units
System Monitoring Compounds				
23) S o-terphenyl	0.00	0	N.D.	ppm
Spiked Amount 0.0200 Range 50 - 150		Recovery	=	0.00%#
Target Compounds				
1) H,M C10-C20 Hydrocarbons	3.14	5046931	0.1291602	ppm
2) H,M C20-C34 Hydrocarbons	4.92	5265214	N.D.	ppm
3) H,M C20-C36 Hydrocarbons	4.98	7672474	NoCal	ppm
4) T,H,M Extractable Petroleum...	3.60	15969580	N.D.	ppm
5) H,M C12-C22 Hydrocarbons	3.60	3288346	0.0604076	ppm
6) H,M C22-C32 Hydrocarbons	5.19	3690675	N.D.	ppm
7) H,M C32-C40 Hydrocarbons	6.47	4814267	N.D.	ppm
8) H,M MISC. TPH (C10-C40)	3.14	18223529	N.D.	ppm
9) H,M TPH (GC/FID) HIGH FRA...	3.14	11784647	0.1718328	ppm
10) H,M C10-C28 Diesel Range	3.14	8421869	0.2971311	ppm
11) H,M C28-C40 Oil Range	5.98	8363488	N.D.	ppm
12) H,M C13-C22 Hydrocarbons	3.78	2696416	0.0630645	ppm
13) H,M C23-C32 Hydrocarbons	5.25	3431883	N.D.	ppm
14) h,m Diesel Range Organics	3.60	3550182	0.0270676	ppm
15) h,m Residual Range Organics	5.46	8880756	N.D.	ppm
16) h Hydraulic Fluid	0.00	1151804	NoCal	ppm
17) h #6 Fuel Oil	0.00	1151804	NoCal	ppm
18) h Kerosene	0.00	1151804	NoCal	ppm
19) h Mineral Spirits	0.00	1151804	NoCal	ppm
20) h Biodiesel	0.00	1151804	NoCal	ppm
21) h,m Diesel	3.14	5046931	0.1218041	ppm
22) h,m Motor Oil	4.92	9917335	N.D.	ppm

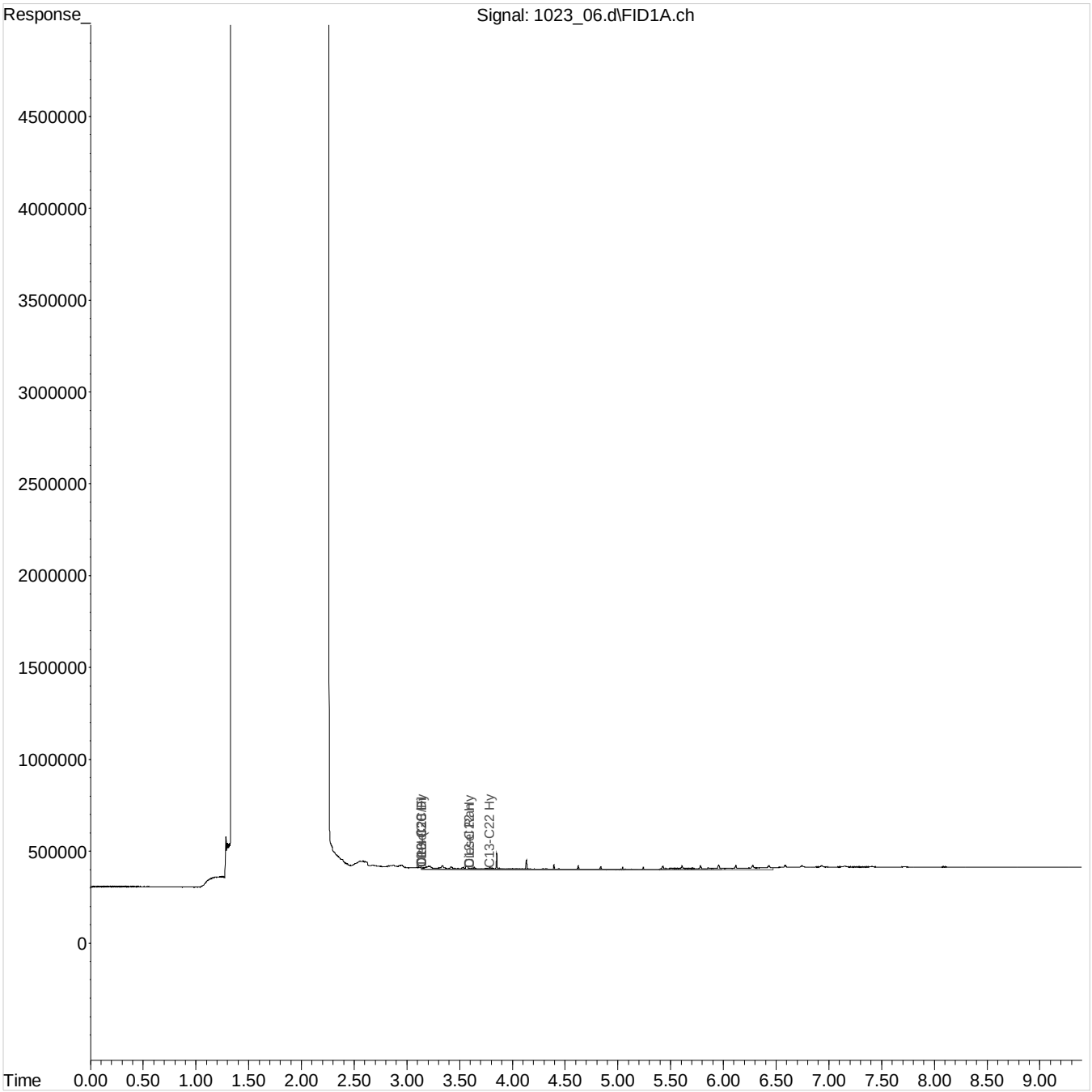
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\102314\
Data File : 1023 06.d
Signal(s) : FID1A.ch
Acq On : 23 Oct 2014 1:23 pm
Operator : 546
Sample : INSTBLK
Misc :
ALS Vial : 111 Sample Multiplier: 1

Integration File: events.e
Quant Time: Oct 23 13:59:09 2014
Quant Method : C:\msdchem\1\methods\EP31J22N.m
Quant Title :
QLast Update : Wed Oct 22 15:02:20 2014
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\102314\
Data File : 1023 07.d
Signal(s) : FID1A.ch
Acq On : 23 Oct 2014 1:41 pm
Operator : 546
Sample : INSTBLK
Misc :
ALS Vial : 111 Sample Multiplier: 1

Integration File: events.e
Quant Time: Oct 23 13:59:15 2014
Quant Method : C:\msdchem\1\methods\EP31J22N.m
Quant Title :
QLast Update : Wed Oct 22 15:02:20 2014
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :

Compound	R.T.	Response	Conc	Units
System Monitoring Compounds				
23) S o-terphenyl	0.00	0	N.D.	ppm
Spiked Amount 0.0200 Range 50 - 150		Recovery	=	0.00%#
Target Compounds				
1) H,M C10-C20 Hydrocarbons	3.14	6121545	0.1819836	ppm
2) H,M C20-C34 Hydrocarbons	4.92	5372484	N.D.	ppm
3) H,M C20-C36 Hydrocarbons	4.98	7565905	NoCal	ppm
4) T,H,M Extractable Petroleum...	3.60	16714762	N.D.	ppm
5) H,M C12-C22 Hydrocarbons	3.60	3778840	0.0818679	ppm
6) H,M C22-C32 Hydrocarbons	5.19	3873667	N.D.	ppm
7) H,M C32-C40 Hydrocarbons	6.47	4772848	N.D.	ppm
8) H,M MISC. TPH (C10-C40)	3.14	19716906	N.D.	ppm
9) H,M TPH (GC/FID) HIGH FRA...	3.14	13570914	0.2479556	ppm
10) H,M C10-C28 Diesel Range	3.14	9761252	0.3443857	ppm
11) H,M C28-C40 Oil Range	5.98	8413605	N.D.	ppm
12) H,M C13-C22 Hydrocarbons	3.78	3173895	0.0851567	ppm
13) H,M C23-C32 Hydrocarbons	5.25	3831720	N.D.	ppm
14) h,m Diesel Range Organics	3.60	4188957	0.0502645	ppm
15) h,m Residual Range Organics	5.46	9003316	N.D.	ppm
16) h Hydraulic Fluid	0.00	1196223	NoCal	ppm
17) h #6 Fuel Oil	0.00	1196223	NoCal	ppm
18) h Kerosene	0.00	1196223	NoCal	ppm
19) h Mineral Spirits	0.00	1196223	NoCal	ppm
20) h Biodiesel	0.00	1196223	NoCal	ppm
21) h,m Diesel	3.14	6121545	0.1747216	ppm
22) h,m Motor Oil	4.92	9682331	N.D.	ppm

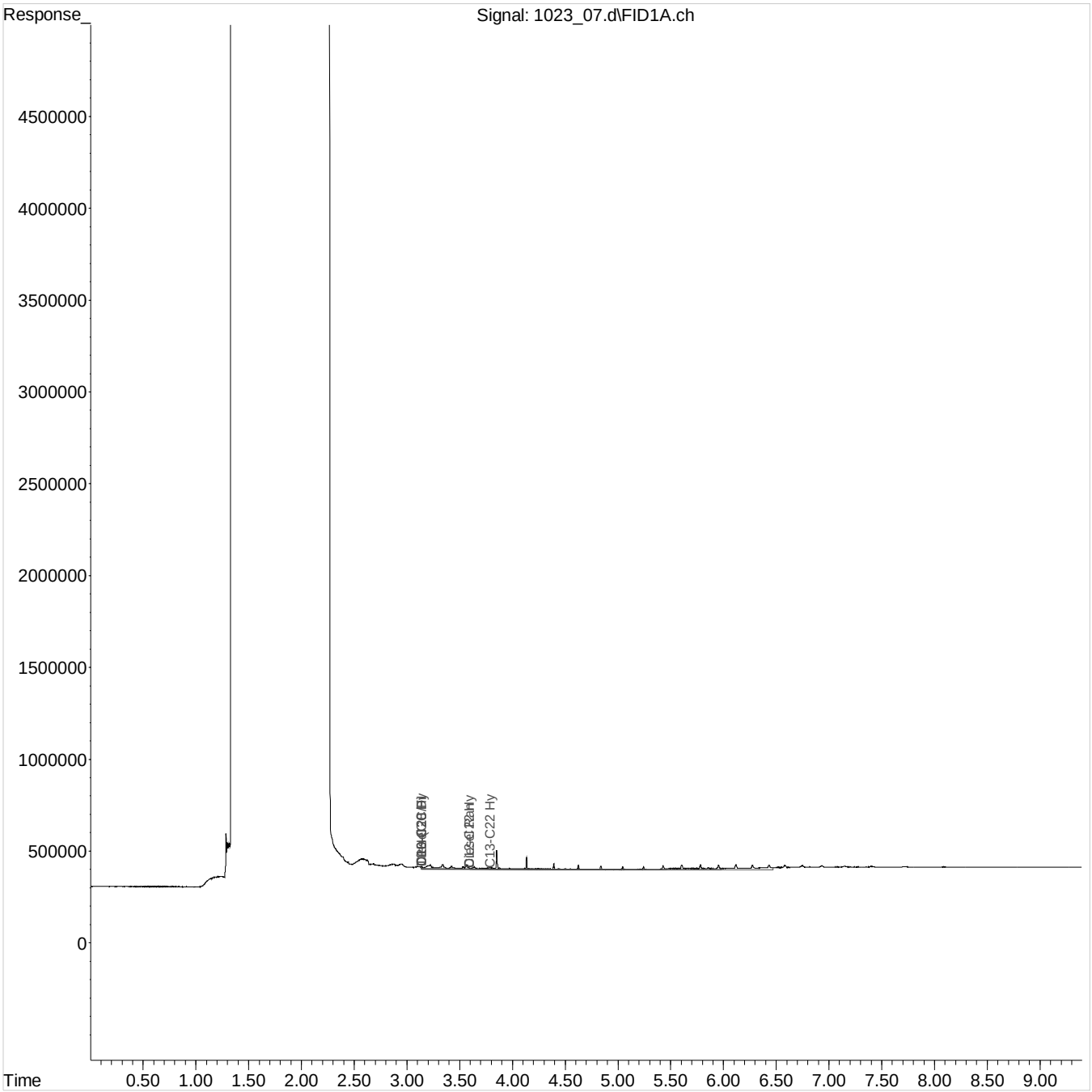
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\102314\
Data File : 1023 07.d
Signal(s) : FID1A.ch
Acq On : 23 Oct 2014 1:41 pm
Operator : 546
Sample : INSTBLK
Misc :
ALS Vial : 111 Sample Multiplier: 1

Integration File: events.e
Quant Time: Oct 23 13:59:15 2014
Quant Method : C:\msdchem\1\methods\EP31J22N.m
Quant Title :
QLast Update : Wed Oct 22 15:02:20 2014
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\102314\
Data File : 1023 07.d
Signal(s) : FID1A.ch
Acq On : 23 Oct 2014 1:41 pm
Operator : 546
Sample : INSTBLK
Misc :
ALS Vial : 111 Sample Multiplier: 1

Integration File: events.e
Quant Time: Oct 23 13:59:15 2014
Quant Method : C:\msdchem\1\methods\EP31J22N.m
Quant Title :
QLast Update : Wed Oct 22 15:02:20 2014
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :

Compound	R.T.	Response	Conc	Units
System Monitoring Compounds				
23) S o-terphenyl	0.00	0	N.D.	ppm
Spiked Amount 0.0200 Range 50 - 150		Recovery	=	0.00%#
Target Compounds				
1) H,M C10-C20 Hydrocarbons	3.14	6121545	0.1819836	ppm
2) H,M C20-C34 Hydrocarbons	4.92	5372484	N.D.	ppm
3) H,M C20-C36 Hydrocarbons	4.98	7565905	NoCal	ppm
4) T,H,M Extractable Petroleum...	3.60	16714762	N.D.	ppm
5) H,M C12-C22 Hydrocarbons	3.60	3778840	0.0818679	ppm
6) H,M C22-C32 Hydrocarbons	5.19	3873667	N.D.	ppm
7) H,M C32-C40 Hydrocarbons	6.47	4772848	N.D.	ppm
8) H,M MISC. TPH (C10-C40)	3.14	19716906	N.D.	ppm
9) H,M TPH (GC/FID) HIGH FRA...	3.14	13570914	0.2479556	ppm
10) H,M C10-C28 Diesel Range	3.14	9761252	0.3443857	ppm
11) H,M C28-C40 Oil Range	5.98	8413605	N.D.	ppm
12) H,M C13-C22 Hydrocarbons	3.78	3173895	0.0851567	ppm
13) H,M C23-C32 Hydrocarbons	5.25	3831720	N.D.	ppm
14) h,m Diesel Range Organics	3.60	4188957	0.0502645	ppm
15) h,m Residual Range Organics	5.46	9003316	N.D.	ppm
16) h Hydraulic Fluid	0.00	1196223	NoCal	ppm
17) h #6 Fuel Oil	0.00	1196223	NoCal	ppm
18) h Kerosene	0.00	1196223	NoCal	ppm
19) h Mineral Spirits	0.00	1196223	NoCal	ppm
20) h Biodiesel	0.00	1196223	NoCal	ppm
21) h,m Diesel	3.14	6121545	0.1747216	ppm
22) h,m Motor Oil	4.92	9682331	N.D.	ppm

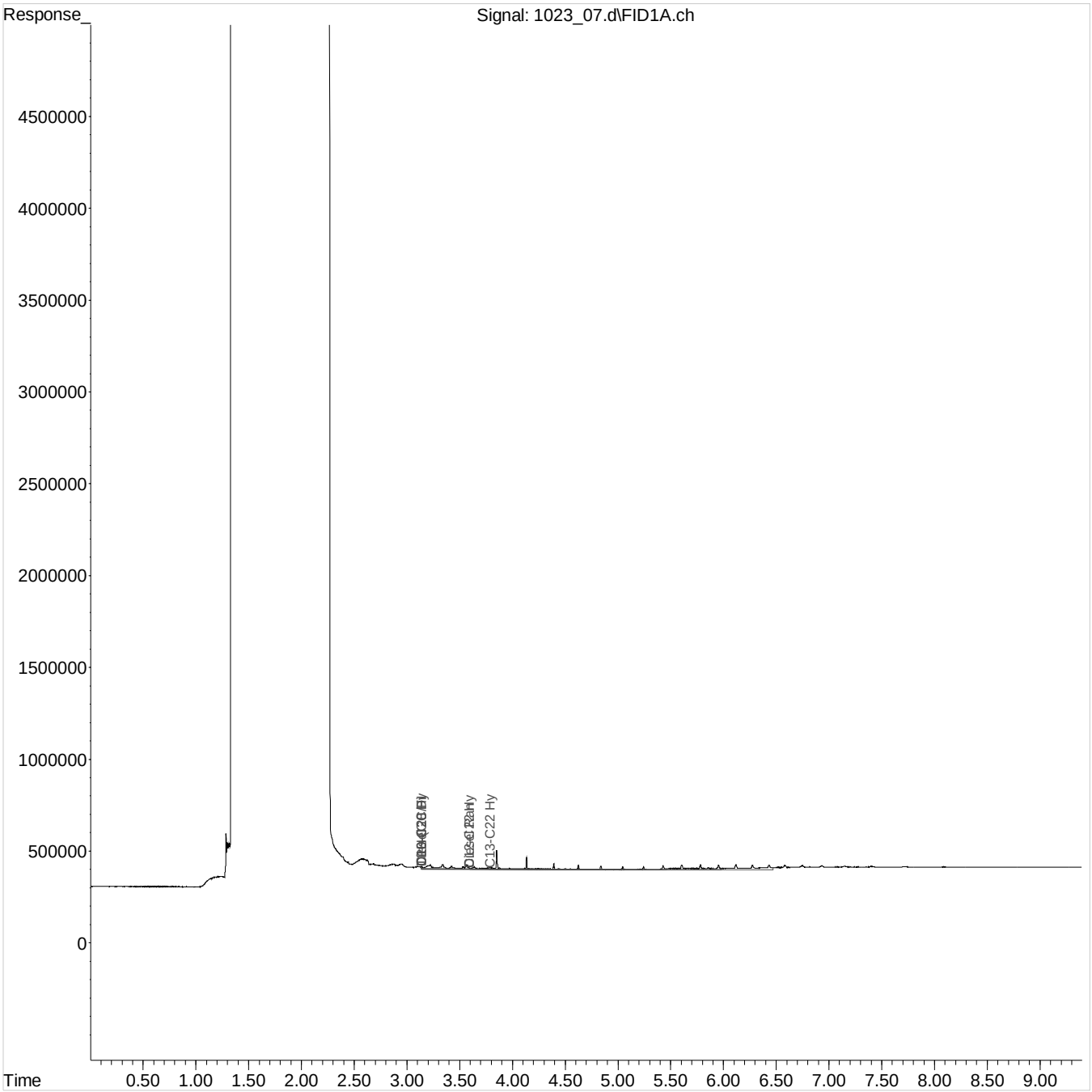
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\102314\
Data File : 1023 07.d
Signal(s) : FID1A.ch
Acq On : 23 Oct 2014 1:41 pm
Operator : 546
Sample : INSTBLK
Misc :
ALS Vial : 111 Sample Multiplier: 1

Integration File: events.e
Quant Time: Oct 23 13:59:15 2014
Quant Method : C:\msdchem\1\methods\EP31J22N.m
Quant Title :
QLast Update : Wed Oct 22 15:02:20 2014
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\102314\
Data File : 1023 23.d
Signal(s) : FID1A.ch
Acq On : 23 Oct 2014 6:26 pm
Operator : 546
Sample : INSTBLK
Misc :
ALS Vial : 113 Sample Multiplier: 1

Integration File: events.e
Quant Time: Oct 24 08:10:38 2014
Quant Method : C:\msdchem\1\methods\EP31J22N.m
Quant Title :
QLast Update : Wed Oct 22 15:02:20 2014
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :

Compound	R.T.	Response	Conc	Units
System Monitoring Compounds				
23) S o-terphenyl	0.00	0	N.D.	ppm
Spiked Amount 0.0200 Range 50 - 150		Recovery	=	0.00%#
Target Compounds				
1) H,M C10-C20 Hydrocarbons	3.14	2781314	0.0177922	ppm
2) H,M C20-C34 Hydrocarbons	4.92	8038806	0.0349464	ppm
3) H,M C20-C36 Hydrocarbons	4.98	11128495	NoCal	ppm
4) T,H,M Extractable Petroleum...	3.60	22083187	0.0773533	ppm
5) H,M C12-C22 Hydrocarbons	3.60	2620743	0.0311984	ppm
6) H,M C22-C32 Hydrocarbons	5.19	5227346	0.0098454	ppm
7) H,M C32-C40 Hydrocarbons	6.47	7747078	0.1174271	ppm
8) H,M MISC. TPH (C10-C40)	3.14	22481103	0.0478019	ppm
9) H,M TPH (GC/FID) HIGH FRA...	3.14	11456919	0.1578664	ppm
10) H,M C10-C28 Diesel Range	3.14	6692125	0.2361041	ppm
11) H,M C28-C40 Oil Range	5.98	11542120	N.D.	ppm
12) H,M C13-C22 Hydrocarbons	3.78	2308082	0.0450968	ppm
13) H,M C23-C32 Hydrocarbons	5.25	4825329	N.D.	ppm
14) h,m Diesel Range Organics	3.60	3193323	0.0141084	ppm
15) h,m Residual Range Organics	5.46	11223703	N.D.	ppm
16) h Hydraulic Fluid	0.00	1195385	NoCal	ppm
17) h #6 Fuel Oil	0.00	1195385	NoCal	ppm
18) h Kerosene	0.00	1195385	NoCal	ppm
19) h Mineral Spirits	0.00	1195385	NoCal	ppm
20) h Biodiesel	0.00	1195385	NoCal	ppm
21) h,m Diesel	3.14	2781314	0.0102378	ppm
22) h,m Motor Oil	4.92	13693098	N.D.	ppm

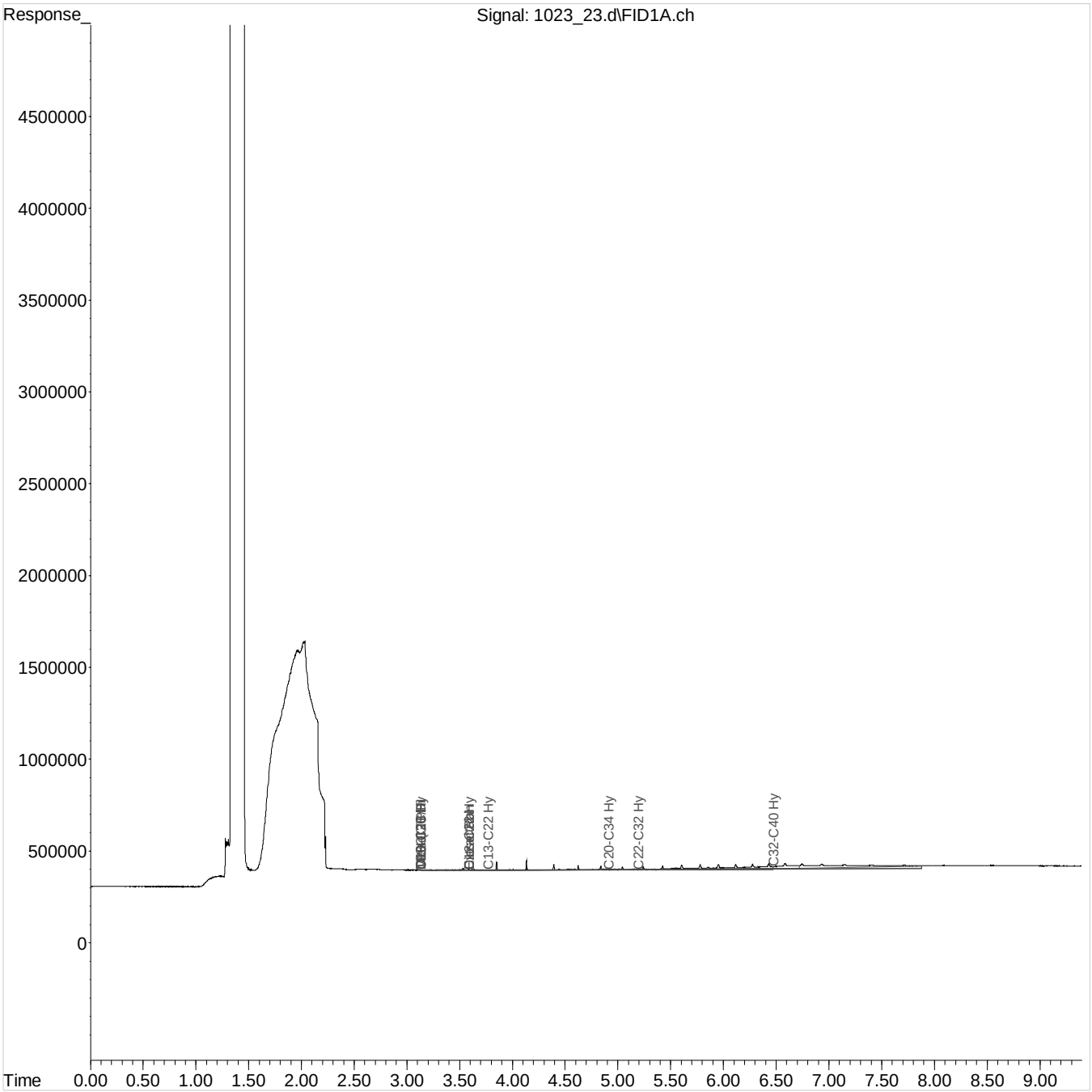
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\102314\
Data File : 1023 23.d
Signal(s) : FID1A.ch
Acq On : 23 Oct 2014 6:26 pm
Operator : 546
Sample : INSTBLK
Misc :
ALS Vial : 113 Sample Multiplier: 1

Integration File: events.e
Quant Time: Oct 24 08:10:38 2014
Quant Method : C:\msdchem\1\methods\EP31J22N.m
Quant Title :
QLast Update : Wed Oct 22 15:02:20 2014
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\102314\
Data File : 1023 23.d
Signal(s) : FID1A.ch
Acq On : 23 Oct 2014 6:26 pm
Operator : 546
Sample : INSTBLK
Misc :
ALS Vial : 113 Sample Multiplier: 1

Integration File: events.e
Quant Time: Oct 24 08:10:38 2014
Quant Method : C:\msdchem\1\methods\EP31J22N.m
Quant Title :
QLast Update : Wed Oct 22 15:02:20 2014
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :

Compound	R.T.	Response	Conc	Units
System Monitoring Compounds				
23) S o-terphenyl	0.00	0	N.D.	ppm
Spiked Amount 0.0200 Range 50 - 150		Recovery	=	0.00%#
Target Compounds				
1) H,M C10-C20 Hydrocarbons	3.14	2781314	0.0177922	ppm
2) H,M C20-C34 Hydrocarbons	4.92	8038806	0.0349464	ppm
3) H,M C20-C36 Hydrocarbons	4.98	11128495	NoCal	ppm
4) T,H,M Extractable Petroleum...	3.60	22083187	0.0773533	ppm
5) H,M C12-C22 Hydrocarbons	3.60	2620743	0.0311984	ppm
6) H,M C22-C32 Hydrocarbons	5.19	5227346	0.0098454	ppm
7) H,M C32-C40 Hydrocarbons	6.47	7747078	0.1174271	ppm
8) H,M MISC. TPH (C10-C40)	3.14	22481103	0.0478019	ppm
9) H,M TPH (GC/FID) HIGH FRA...	3.14	11456919	0.1578664	ppm
10) H,M C10-C28 Diesel Range	3.14	6692125	0.2361041	ppm
11) H,M C28-C40 Oil Range	5.98	11542120	N.D.	ppm
12) H,M C13-C22 Hydrocarbons	3.78	2308082	0.0450968	ppm
13) H,M C23-C32 Hydrocarbons	5.25	4825329	N.D.	ppm
14) h,m Diesel Range Organics	3.60	3193323	0.0141084	ppm
15) h,m Residual Range Organics	5.46	11223703	N.D.	ppm
16) h Hydraulic Fluid	0.00	1195385	NoCal	ppm
17) h #6 Fuel Oil	0.00	1195385	NoCal	ppm
18) h Kerosene	0.00	1195385	NoCal	ppm
19) h Mineral Spirits	0.00	1195385	NoCal	ppm
20) h Biodiesel	0.00	1195385	NoCal	ppm
21) h,m Diesel	3.14	2781314	0.0102378	ppm
22) h,m Motor Oil	4.92	13693098	N.D.	ppm

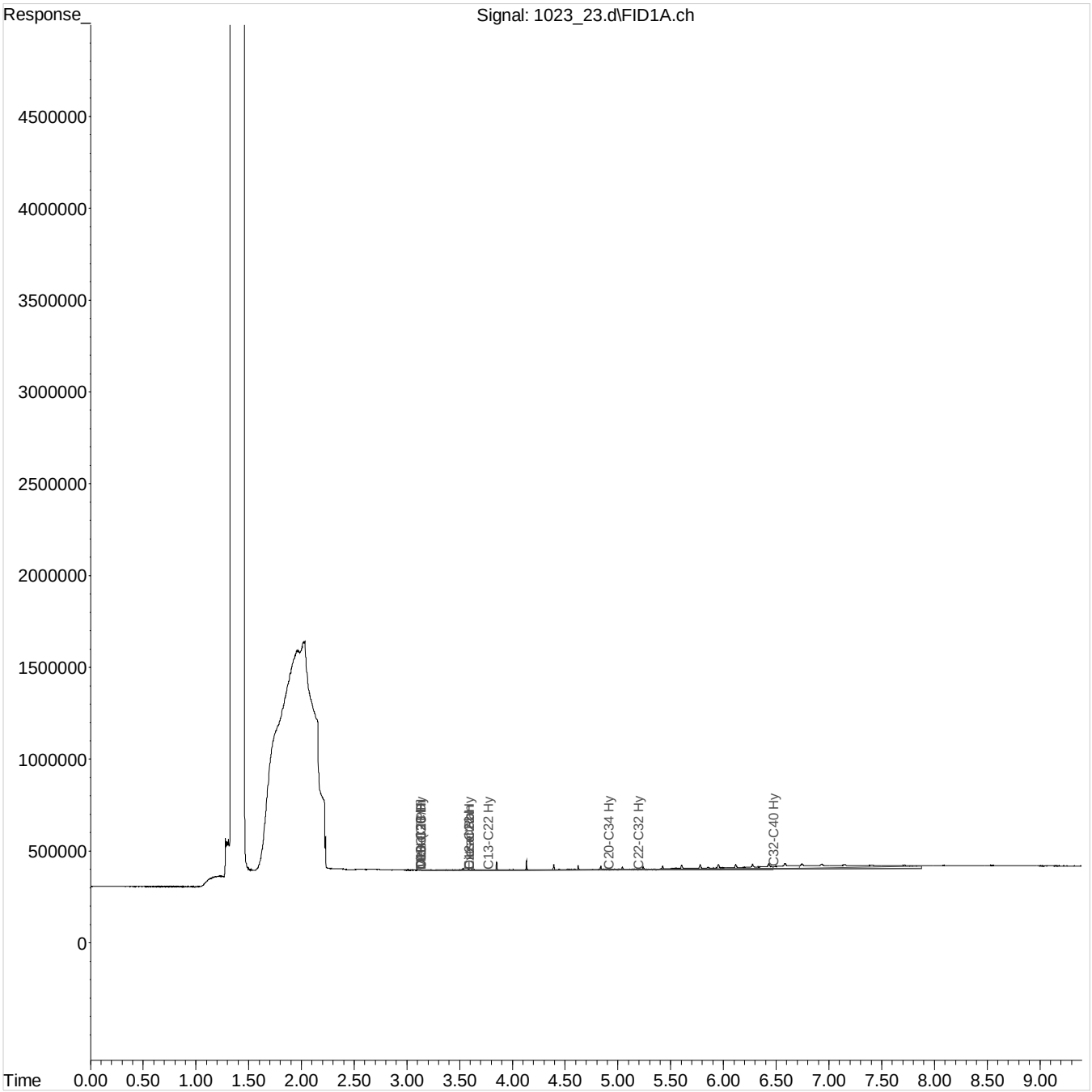
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\102314\
Data File : 1023 23.d
Signal(s) : FID1A.ch
Acq On : 23 Oct 2014 6:26 pm
Operator : 546
Sample : INSTBLK
Misc :
ALS Vial : 113 Sample Multiplier: 1

Integration File: events.e
Quant Time: Oct 24 08:10:38 2014
Quant Method : C:\msdchem\1\methods\EP31J22N.m
Quant Title :
QLast Update : Wed Oct 22 15:02:20 2014
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\102314\
Data File : 1023 24.d
Signal(s) : FID1A.ch
Acq On : 23 Oct 2014 6:44 pm
Operator : 546
Sample : INSTBLK
Misc :
ALS Vial : 113 Sample Multiplier: 1

Integration File: events.e
Quant Time: Oct 24 08:10:42 2014
Quant Method : C:\msdchem\1\methods\EP31J22N.m
Quant Title :
QLast Update : Wed Oct 22 15:02:20 2014
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :

Compound	R.T.	Response	Conc	Units
System Monitoring Compounds				
23) S o-terphenyl	0.00	0	N.D.	ppm
Spiked Amount 0.0200 Range 50 - 150		Recovery	=	0.00%#
Target Compounds				
1) H,M C10-C20 Hydrocarbons	3.14	2062072	N.D.	ppm
2) H,M C20-C34 Hydrocarbons	4.92	6429747	N.D.	ppm
3) H,M C20-C36 Hydrocarbons	4.98	10193660	NoCal	ppm
4) T,H,M Extractable Petroleum...	3.60	18085658	N.D.	ppm
5) H,M C12-C22 Hydrocarbons	3.60	1792085	N.D.	ppm
6) H,M C22-C32 Hydrocarbons	5.19	4409802	N.D.	ppm
7) H,M C32-C40 Hydrocarbons	6.47	6409118	0.0603020	ppm
8) H,M MISC. TPH (C10-C40)	3.14	18798138	N.D.	ppm
9) H,M TPH (GC/FID) HIGH FRA...	3.14	10071383	0.0988210	ppm
10) H,M C10-C28 Diesel Range	3.14	5772662	0.2036647	ppm
11) H,M C28-C40 Oil Range	5.98	10745337	N.D.	ppm
12) H,M C13-C22 Hydrocarbons	3.78	1679351	0.0160063	ppm
13) H,M C23-C32 Hydrocarbons	5.25	4352459	N.D.	ppm
14) h,m Diesel Range Organics	3.60	2197452	N.D.	ppm
15) h,m Residual Range Organics	5.46	11301986	N.D.	ppm
16) h Hydraulic Fluid	0.00	1201537	NoCal	ppm
17) h #6 Fuel Oil	0.00	1201537	NoCal	ppm
18) h Kerosene	0.00	1201537	NoCal	ppm
19) h Mineral Spirits	0.00	1201537	NoCal	ppm
20) h Biodiesel	0.00	1201537	NoCal	ppm
21) h,m Diesel	3.14	2062072	N.D.	ppm
22) h,m Motor Oil	4.92	12975177	N.D.	ppm

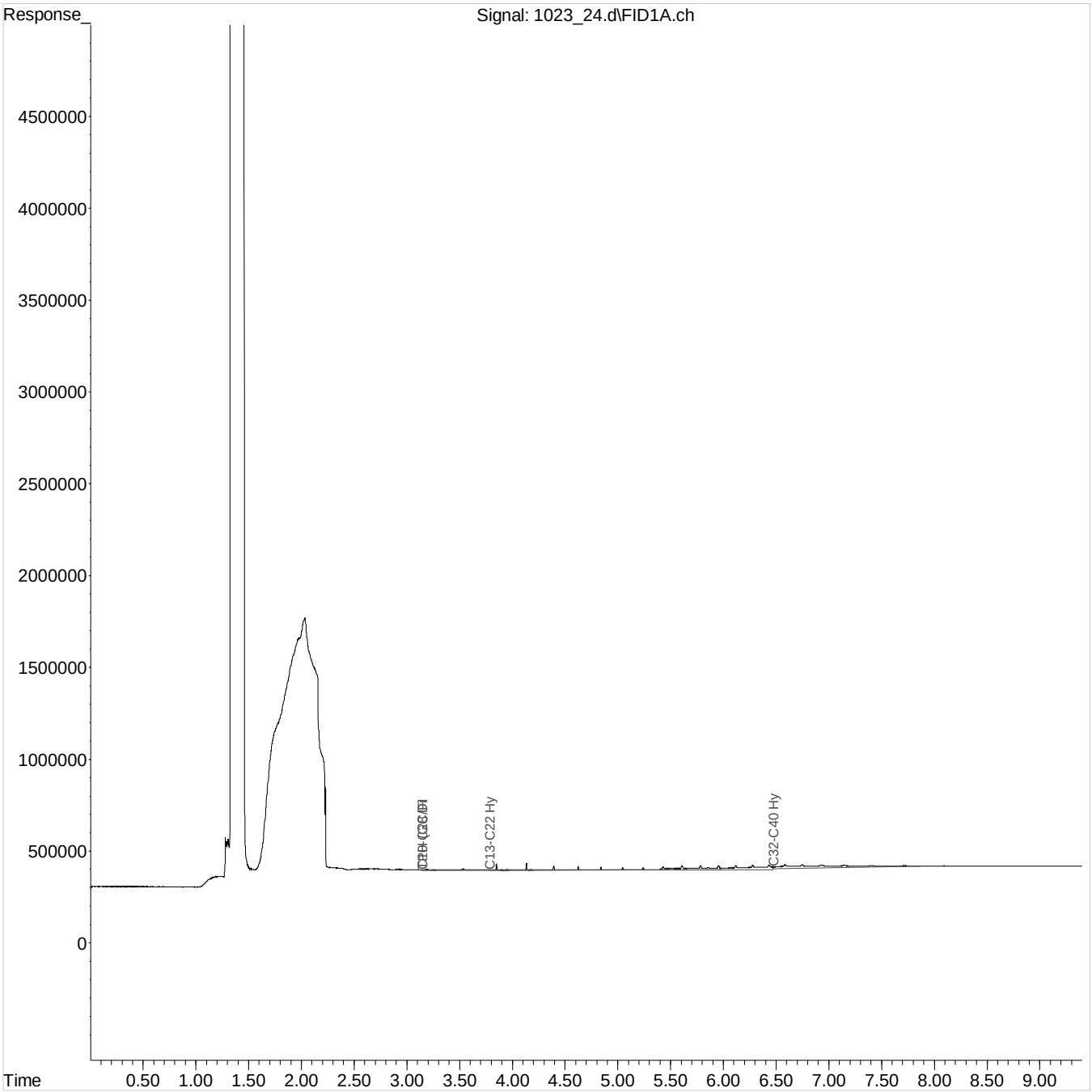
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\102314\
Data File : 1023 24.d
Signal(s) : FID1A.ch
Acq On : 23 Oct 2014 6:44 pm
Operator : 546
Sample : INSTBLK
Misc :
ALS Vial : 113 Sample Multiplier: 1

Integration File: events.e
Quant Time: Oct 24 08:10:42 2014
Quant Method : C:\msdchem\1\methods\EP31J22N.m
Quant Title :
QLast Update : Wed Oct 22 15:02:20 2014
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\102314\
Data File : 1023 24.d
Signal(s) : FID1A.ch
Acq On : 23 Oct 2014 6:44 pm
Operator : 546
Sample : INSTBLK
Misc :
ALS Vial : 113 Sample Multiplier: 1

Integration File: events.e
Quant Time: Oct 24 08:10:42 2014
Quant Method : C:\msdchem\1\methods\EP31J22N.m
Quant Title :
QLast Update : Wed Oct 22 15:02:20 2014
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :

Compound	R.T.	Response	Conc	Units
System Monitoring Compounds				
23) S o-terphenyl	0.00	0	N.D.	ppm
Spiked Amount 0.0200 Range 50 - 150		Recovery	=	0.00%#
Target Compounds				
1) H,M C10-C20 Hydrocarbons	3.14	2062072	N.D.	ppm
2) H,M C20-C34 Hydrocarbons	4.92	6429747	N.D.	ppm
3) H,M C20-C36 Hydrocarbons	4.98	10193660	NoCal	ppm
4) T,H,M Extractable Petroleum...	3.60	18085658	N.D.	ppm
5) H,M C12-C22 Hydrocarbons	3.60	1792085	N.D.	ppm
6) H,M C22-C32 Hydrocarbons	5.19	4409802	N.D.	ppm
7) H,M C32-C40 Hydrocarbons	6.47	6409118	0.0603020	ppm
8) H,M MISC. TPH (C10-C40)	3.14	18798138	N.D.	ppm
9) H,M TPH (GC/FID) HIGH FRA...	3.14	10071383	0.0988210	ppm
10) H,M C10-C28 Diesel Range	3.14	5772662	0.2036647	ppm
11) H,M C28-C40 Oil Range	5.98	10745337	N.D.	ppm
12) H,M C13-C22 Hydrocarbons	3.78	1679351	0.0160063	ppm
13) H,M C23-C32 Hydrocarbons	5.25	4352459	N.D.	ppm
14) h,m Diesel Range Organics	3.60	2197452	N.D.	ppm
15) h,m Residual Range Organics	5.46	11301986	N.D.	ppm
16) h Hydraulic Fluid	0.00	1201537	NoCal	ppm
17) h #6 Fuel Oil	0.00	1201537	NoCal	ppm
18) h Kerosene	0.00	1201537	NoCal	ppm
19) h Mineral Spirits	0.00	1201537	NoCal	ppm
20) h Biodiesel	0.00	1201537	NoCal	ppm
21) h,m Diesel	3.14	2062072	N.D.	ppm
22) h,m Motor Oil	4.92	12975177	N.D.	ppm

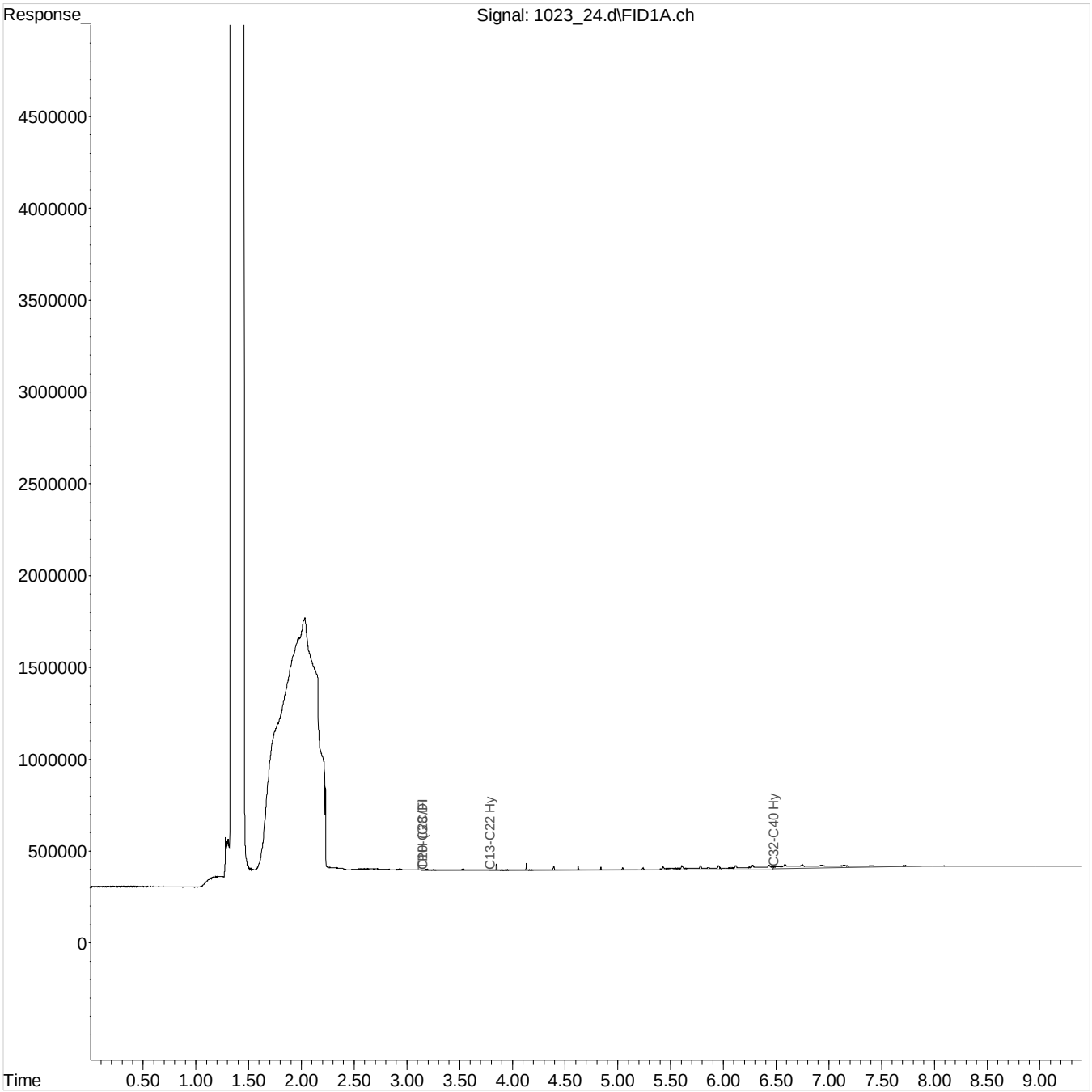
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\102314\
Data File : 1023 24.d
Signal(s) : FID1A.ch
Acq On : 23 Oct 2014 6:44 pm
Operator : 546
Sample : INSTBLK
Misc :
ALS Vial : 113 Sample Multiplier: 1

Integration File: events.e
Quant Time: Oct 24 08:10:42 2014
Quant Method : C:\msdchem\1\methods\EP31J22N.m
Quant Title :
QLast Update : Wed Oct 22 15:02:20 2014
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :



Semi-Volatiles by Method 8270C

12065 Lebanon Rd
Mt. Juliet, TN 37122
(615) 758-5858
(800) 767-5859
Fax (615) 758-5859
Tax I.D 62-0814289
Est. 1970

Quality Control Summary
SDG: L735181

Semi-Volatiles by Method 8270C
URS Corporation - Tucson AZ - 1088308

Project: Holloman AFB
Project No: 23446543.0057AA

Login No: L735181

Lab SampleID.	Client ID
L735181-01	H-TU508-TRIPBLANK-TT01
L735181-02	H-TU508-MW06-NT01
L735181-03	H-TU508-MW06-ND01
L735181-04	H-TU508-MW05-ND01
L735181-05	H-TU508-MW05-NT01
L735181-06	H-TU508-MW04-ND01
L735181-07	H-TU508-MW04-NT01
L735181-08	H-TU508-MW07-NT01
L735181-09	H-TU508-MW07-ND01
L735181-10	H-TU508-MW07-NT01

I certify that this data package accurately represents the information in the raw data found herein, both technically and for completeness. Release of the data contained in this data package has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature.

Signature: _____ Name: ESC Lab Sciences

Date: _____ Title: Quality Control

12065 Lebanon Rd
Mt. Juliet, TN 37122
(615) 758-5858
(800) 767-5859
Fax (615) 758-5859
Tax I.D 62-0814289
Est. 1970

Quality Control Summary
SDG: L735181
URS Corporation - Tucson AZ - 1088308

Test:	Semi-Volatiles by Method 8270C		
Project No:	23446543.0057AA	Matrix:	Water - ug/L
Project:	Holloman AFB	EPA ID:	TN00003
Collection Date:	11/20/2014	**Analytic Batch:**	**WG756405**
Analysis Date:	11/26/2014	Analyst:	377
Instrument ID:	BNAMS19	Prep Date:	11/23/2014
Sample Numbers:	L735181-02, -05, -07		

Workgroup: **WG756405**
Description: **SVOCs by Method 8270C (GW)**

Sample Name	Collect Date	Prep Date	Analysis Date
L735181-02 1x	11/19/2014	11/25/2014	11/26/2014
L735181-05 1x	11/19/2014	11/25/2014	11/26/2014
L735181-07 1x	11/19/2014	11/25/2014	11/26/2014

Parameters in bold text are reported in this SDG

12065 Lebanon Rd
Mt. Juliet, TN 37122
(615) 758-5858
(800) 767-5859
Fax (615) 758-5859
Tax I.D 62-0814289
Est. 1970

Quality Control Summary
SDG: L735181
URS Corporation - Tucson AZ - 1088308

Test:	Semi-Volatiles by Method 8270C		
Project No:	23446543.0057AA	Matrix:	Water - ug/L
Project:	Holloman AFB	EPA ID:	TN00003
Collection Date:	11/20/2014	**Analytic Batch:**	**WG756857**
Analysis Date:	11/26/2014	Analyst:	280
Instrument ID:	BNAMS11	Prep Date:	11/25/2014
Sample Numbers:	L735181-08		

Workgroup: **WG756857**
Description: **SVOCs by Method 8270C (GW)**

Sample Name	Collect Date	Prep Date	Analysis Date
L735181-08 1x	11/21/2014	11/25/2014	11/26/2014

Parameters in bold text are reported in this SDG

12065 Lebanon Rd
Mt. Juliet, TN 37122
(615) 758-5858
(800) 767-5859
Fax (615) 758-5859
Tax I.D 62-0814289
Est. 1970

Quality Control Summary
SDG: L735181
URS Corporation - Tucson AZ - 1088308

Test:	Semi-Volatiles by Method 8270C		
Project No:	23446543.0057AA	Matrix:	Water - ug/L
Project:	Holloman AFB	EPA ID:	TN00003
Collection Date:	11/20/2014	**Analytic Batch:**	**WG756405**
Analysis Date:	11/26/2014	Analyst:	377
Instrument ID:	BNAMS19	Prep Date:	11/23/2014
Sample Numbers:	L735181-02, -05, -07		

Method Blank Summary

Instrument	Client Sample ID	Lab Sample ID	File Name	Analysis Date	Analysis Time
BNAMS19	LCS WG756405	LCS WG756405	1125A_04.D	11/26/2014	7:15 AM
BNAMS19	LCSD WG756405	LCSD WG756405	1125A_05.D	11/26/2014	7:39 AM
BNAMS19	Blank WG756405	Blank WG756405	1125A_06.D	11/26/2014	8:03 AM
BNAMS19	H-TU508-MW06-NT01	L735181-02	1125A_19.D	11/26/2014	1:13 PM
BNAMS19	H-TU508-MW05-NT01	L735181-05	1125A_20.D	11/26/2014	1:37 PM
BNAMS19	H-TU508-MW04-NT01	L735181-07	1125A_21.D	11/26/2014	2:01 PM

Parameters in bold text are reported in this SDG

12065 Lebanon Rd
Mt. Juliet, TN 37122
(615) 758-5858
(800) 767-5859
Fax (615) 758-5859
Tax I.D 62-0814289
Est. 1970

Quality Control Summary
SDG: L735181
URS Corporation - Tucson AZ - 1088308

Test:	Semi-Volatiles by Method 8270C		
Project No:	23446543.0057AA	Matrix:	Water - ug/L
Project:	Holloman AFB	EPA ID:	TN00003
Collection Date:	11/20/2014	**Analytic Batch:**	**WG756857**
Analysis Date:	11/26/2014	Analyst:	280
Instrument ID:	BNAMS11	Prep Date:	11/25/2014
Sample Numbers:	L735181-08		

Method Blank Summary

Instrument	Client Sample ID	Lab Sample ID	File Name	Analysis Date	Analysis Time
BNAMS11	LCS WG756857	LCS WG756857	1125B_05.D	11/26/2014	6:14 AM
BNAMS11	LCSD WG756857	LCSD WG756857	1125B_06.D	11/26/2014	6:35 AM
BNAMS11	Blank WG756857	Blank WG756857	1125B_07.D	11/26/2014	6:57 AM
BNAMS11	H-TU508-MW07-NT01	L735181-08	1125B_11.D	11/26/2014	8:21 AM

Parameters in bold text are reported in this SDG

12065 Lebanon Rd
Mt. Juliet, TN 37122
(615) 758-5858
(800) 767-5859
Fax (615) 758-5859
Tax I.D 62-0814289
Est. 1970

Quality Control Summary
SDG: L735181
URS Corporation - Tucson AZ - 1088308

Test:	Semi-Volatiles by Method 8270C		
Project No:	23446543.0057AA	Matrix:	Water - ug/L
Project:	Holloman AFB	EPA ID:	TN00003
Collection Date:	11/20/2014	**Analytic Batch:**	**WG756405**
Analysis Date:	11/26/2014	Analyst:	377
Instrument ID:	BNAMS19	Prep Date:	11/23/2014
Sample Numbers:	L735181-02, -05, -07		

Method Blank

Analyte	CAS	RDL	MDL	Qualifier
1,2,4-Trichlorobenzene	120-82-1	< 10.0	< 0.355	
2,4,5-Trichlorophenol	95-95-4	< 10.0	< 0.236	
2,4,6-Trichlorophenol	88-06-2	< 10.0	< 0.297	
2,4-Dichlorophenol	120-83-2	< 10.0	< 0.284	
2,4-Dimethylphenol	105-67-9	< 10.0	< 0.624	
2,4-Dinitrophenol	51-28-5	< 10.0	< 3.25	
2,4-Dinitrotoluene	121-14-2	< 10.0	< 1.65	
2,6-Dinitrotoluene	606-20-2	< 10.0	< 0.279	
2-Chloronaphthalene	91-58-7	< 1.00	< 0.330	
2-Chlorophenol	95-57-8	< 10.0	< 0.283	
2-Methylphenol	95-48-7	< 10.0	< 0.312	
2-Nitroaniline	88-74-4	< 10.0	< 1.9	
2-Nitrophenol	88-75-5	< 10.0	< 0.320	
3&4-Methyl Phenol	3&4-Methyl Phenol	< 10.0	< 0.266	
3,3-Dichlorobenzidine	91-94-1	< 10.0	< 2.02	
3-Nitroaniline	99-09-2	< 10.0	< 0.308	
4,6-Dinitro-2-methylphenol	534-52-1	< 10.0	< 2.62	
4-Bromophenyl-phenylether	101-55-3	< 10.0	< 0.355	
4-Chloro-3-methylphenol	59-50-7	< 10.0	< 0.263	
4-Chloroaniline	106-47-8	< 10.0	< 0.382	
4-Chlorophenyl-phenylether	7005-72-3	< 10.0	< 0.303	
4-Nitroaniline	100-01-6	< 10.0	< 0.349	
4-Nitrophenol	100-02-7	< 10.0	< 2.01	
Acenaphthene	83-32-9	< 0.0500	< 0.00823	
Acenaphthylene	208-96-8	< 0.0500	< 0.0109	
Anthracene	120-12-7	< 0.0500	< 0.0131	
Azobenzene	103-33-3	< 10.0	< 0.318	
Benzo(a)anthracene	56-55-3	< 0.0500	< 0.0124	
Benzo(a)pyrene	50-32-8	< 0.0500	< 0.0158	
Benzo(b)fluoranthene	205-99-2	< 0.0500	< 0.0192	
Benzo(g,h,i)perylene	191-24-2	< 0.0500	< 0.0157	
Benzo(k)fluoranthene	207-08-9	< 0.0500	< 0.0255	
Benzoic Acid	65-85-0	< 10.0	< 0.440	
Benzyl Alcohol	100-51-6	< 10.0	< 0.393	
Benzylbutyl phthalate	85-68-7	< 3.00	< 0.275	
Bis(2-chlorethoxy)methane	111-91-1	< 10.0	< 0.329	
Bis(2-chloroethyl)ether	111-44-4	< 10.0	< 1.62	

Parameters in bold text are reported in this SDG

12065 Lebanon Rd
Mt. Juliet, TN 37122
(615) 758-5858
(800) 767-5859
Fax (615) 758-5859
Tax I.D 62-0814289
Est. 1970

Quality Control Summary
SDG: L735181
URS Corporation - Tucson AZ - 1088308

Test:	Semi-Volatiles by Method 8270C		
Project No:	23446543.0057AA	Matrix:	Water - ug/L
Project:	Holloman AFB	EPA ID:	TN00003
Collection Date:	11/20/2014	**Analytic Batch:**	**WG756405**
Analysis Date:	11/26/2014	Analyst:	377
Instrument ID:	BNAMS19	Prep Date:	11/23/2014
Sample Numbers:	L735181-02, -05, -07		

Method Blank

Analyte	CAS	RDL	MDL	Qualifier
Bis(2-chloroisopropyl)ether	108-60-1	< 10.0	< 0.445	
Bis(2-ethylhexyl)phthalate	117-81-7	< 3.00	< 0.709	
Carbazole	86-74-8	< 10.0	< 0.162	
Chrysene	218-01-9	< 0.0500	< 0.0144	
Dibenz(a,h)anthracene	53-70-3	< 0.0500	< 0.00454	
Dibenzofuran	132-64-9	< 10.0	< 0.338	
Diethyl phthalate	84-66-2	< 3.00	< 0.282	
Dimethyl phthalate	131-11-3	< 3.00	< 0.283	
Di-n-butyl phthalate	84-74-2	< 3.00	< 0.266	
Di-n-octyl phthalate	117-84-0	< 3.00	< 0.278	
Fluoranthene	206-44-0	< 0.0500	< 0.0165	
Fluorene	86-73-7	< 0.0500	< 0.00898	
Hexachloro-1,3-butadiene	87-68-3	< 10.0	< 0.329	
Hexachlorobenzene	118-74-1	< 1.00	< 0.341	
Hexachloroethane	67-72-1	< 10.0	< 0.365	
Indeno(1,2,3-cd)pyrene	193-39-5	< 0.0500	< 0.00739	
Isophorone	78-59-1	< 10.0	< 0.272	
Naphthalene	91-20-3	< 0.250	0.234	B
Nitrobenzene	98-95-3	< 10.0	< 0.367	
n-Nitrosodimethylamine	62-75-9	< 10.0	< 1.26	
n-Nitrosodi-n-propylamine	621-64-7	< 10.0	< 0.403	
n-Nitrosodiphenylamine	86-30-6	< 10.0	< 0.304	
Pentachlorophenol	87-86-5	< 10.0	< 0.313	
Phenanthrene	85-01-8	< 0.0500	< 0.0184	
Phenol	108-95-2	< 10.0	< 0.334	
Pyrene	129-00-0	< 0.0500	< 0.0155	

Parameters in bold text are reported in this SDG

12065 Lebanon Rd
Mt. Juliet, TN 37122
(615) 758-5858
(800) 767-5859
Fax (615) 758-5859
Tax I.D 62-0814289
Est. 1970

Quality Control Summary
SDG: L735181
URS Corporation - Tucson AZ - 1088308

Test:	Semi-Volatiles by Method 8270C		
Project No:	23446543.0057AA	Matrix:	Water - ug/L
Project:	Holloman AFB	EPA ID:	TN00003
Collection Date:	11/20/2014	**Analytic Batch:**	**WG756857**
Analysis Date:	11/26/2014	Analyst:	280
Instrument ID:	BNAMS11	Prep Date:	11/25/2014
Sample Numbers:	L735181-08		

Method Blank

Analyte	CAS	RDL	MDL	Qualifier
1,2,4-Trichlorobenzene	120-82-1	< 10.0	< 0.355	
2,4,5-Trichlorophenol	95-95-4	< 10.0	< 0.236	
2,4,6-Trichlorophenol	88-06-2	< 10.0	< 0.297	
2,4-Dichlorophenol	120-83-2	< 10.0	< 0.284	
2,4-Dimethylphenol	105-67-9	< 10.0	< 0.624	
2,4-Dinitrophenol	51-28-5	< 10.0	< 3.25	
2,4-Dinitrotoluene	121-14-2	< 10.0	< 1.65	
2,6-Dinitrotoluene	606-20-2	< 10.0	< 0.279	
2-Chloronaphthalene	91-58-7	< 1.00	< 0.330	
2-Chlorophenol	95-57-8	< 10.0	< 0.283	
2-Methylnaphthalene	91-57-6	< 0.250	< 0.0155	
2-Methylphenol	95-48-7	< 10.0	< 0.312	
2-Nitroaniline	88-74-4	< 10.0	< 1.9	
2-Nitrophenol	88-75-5	< 10.0	< 0.320	
3&4-Methyl Phenol	3&4-Methyl Phenol	< 10.0	< 0.266	
3,3-Dichlorobenzidine	91-94-1	< 10.0	< 2.02	
3-Nitroaniline	99-09-2	< 10.0	< 0.308	
4,6-Dinitro-2-methylphenol	534-52-1	< 10.0	< 2.62	
4-Bromophenyl-phenylether	101-55-3	< 10.0	< 0.355	
4-Chloro-3-methylphenol	59-50-7	< 10.0	< 0.263	
4-Chloroaniline	106-47-8	< 10.0	< 0.382	
4-Chlorophenyl-phenylether	7005-72-3	< 10.0	< 0.303	
4-Nitroaniline	100-01-6	< 10.0	< 0.349	
4-Nitrophenol	100-02-7	< 10.0	< 2.01	
Acenaphthene	83-32-9	< 0.0500	< 0.00823	
Acenaphthylene	208-96-8	< 0.0500	< 0.0109	
Anthracene	120-12-7	< 0.0500	< 0.0131	
Azobenzene	103-33-3	< 10.0	< 0.318	
Benzo(a)anthracene	56-55-3	< 0.0500	< 0.0124	
Benzo(a)pyrene	50-32-8	< 0.0500	< 0.0158	
Benzo(b)fluoranthene	205-99-2	< 0.0500	< 0.0192	
Benzo(g,h,i)perylene	191-24-2	< 0.0500	< 0.0157	
Benzo(k)fluoranthene	207-08-9	< 0.0500	< 0.0255	
Benzoic Acid	65-85-0	< 10.0	< 0.440	
Benzyl Alcohol	100-51-6	< 10.0	< 0.393	
Benzylbutyl phthalate	85-68-7	< 3.00	< 0.275	
Bis(2-chlorethoxy)methane	111-91-1	< 10.0	< 0.329	

Parameters in bold text are reported in this SDG

12065 Lebanon Rd
Mt. Juliet, TN 37122
(615) 758-5858
(800) 767-5859
Fax (615) 758-5859
Tax I.D 62-0814289
Est. 1970

Quality Control Summary
SDG: L735181
URS Corporation - Tucson AZ - 1088308

Test:	Semi-Volatiles by Method 8270C		
Project No:	23446543.0057AA	Matrix:	Water - ug/L
Project:	Holloman AFB	EPA ID:	TN00003
Collection Date:	11/20/2014	**Analytic Batch:**	**WG756857**
Analysis Date:	11/26/2014	Analyst:	280
Instrument ID:	BNAMS11	Prep Date:	11/25/2014
Sample Numbers:	L735181-08		

Method Blank

Analyte	CAS	RDL	MDL	Qualifier
Bis(2-chloroethyl)ether	111-44-4	< 10.0	< 1.62	
Bis(2-chloroisopropyl)ether	108-60-1	< 10.0	< 0.445	
Bis(2-ethylhexyl)phthalate	117-81-7	< 3.00	< 0.709	
Carbazole	86-74-8	< 10.0	< 0.162	
Chrysene	218-01-9	< 0.0500	< 0.0144	
Dibenz(a,h)anthracene	53-70-3	< 0.0500	< 0.00454	
Dibenzofuran	132-64-9	< 10.0	< 0.338	
Diethyl phthalate	84-66-2	< 3.00	< 0.282	
Dimethyl phthalate	131-11-3	< 3.00	< 0.283	
Di-n-butyl phthalate	84-74-2	< 3.00	< 0.266	
Di-n-octyl phthalate	117-84-0	< 3.00	< 0.278	
Fluoranthene	206-44-0	< 0.0500	< 0.0165	
Fluorene	86-73-7	< 0.0500	< 0.00898	
Hexachloro-1,3-butadiene	87-68-3	< 10.0	< 0.329	
Hexachlorobenzene	118-74-1	< 1.00	< 0.341	
Hexachloroethane	67-72-1	< 10.0	< 0.365	
Indeno(1,2,3-cd)pyrene	193-39-5	< 0.0500	< 0.00739	
Isophorone	78-59-1	< 10.0	< 0.272	
Naphthalene	91-20-3	< 0.250	0.181	B
Nitrobenzene	98-95-3	< 10.0	< 0.367	
n-Nitrosodimethylamine	62-75-9	< 10.0	< 1.26	
n-Nitrosodi-n-propylamine	621-64-7	< 10.0	< 0.403	
n-Nitrosodiphenylamine	86-30-6	< 10.0	< 0.304	
Pentachlorophenol	87-86-5	< 10.0	< 0.313	
Phenanthrene	85-01-8	< 0.0500	< 0.0184	
Phenol	108-95-2	< 10.0	< 0.334	
Pyrene	129-00-0	< 0.0500	< 0.0155	

Parameters in bold text are reported in this SDG

12065 Lebanon Rd
Mt. Juliet, TN 37122
(615) 758-5858
(800) 767-5859
Fax (615) 758-5859
Tax I.D 62-0814289
Est. 1970

Quality Control Summary
SDG: L735181
URS Corporation - Tucson AZ - 1088308

Test:	Semi-Volatiles by Method 8270C		
Project No:	23446543.0057AA	Matrix:	Water - ug/L
Project:	Holloman AFB	EPA ID:	TN00003
Collection Date:	11/20/2014	**Analytic Batch:**	**WG756405**
Analysis Date:	11/26/2014	Analyst:	377
Instrument ID:	BNAMS19	Prep Date:	11/23/2014
Sample Numbers:	L735181-02, -05, -07		

Laboratory Control Sample (LCS)

Analyte	Dil	True Value	Found	% Rec	Control Limits	Qual
1,2,4-Trichlorobenzene	1	25	17.019	68.1	22.9 - 96.1	
2,4,5-Trichlorophenol	1	25	17.928	71.7	34.9 - 112	
2,4,6-Trichlorophenol	1	25	18.061	72.2	29.8 - 107	
2,4-Dichlorophenol	1	25	17.899	71.6	31.4 - 103	
2,4-Dimethylphenol	1	25	18.471	73.9	31.9 - 107	
2,4-Dinitrophenol	1	25	11.396	45.6	24.2 - 128	
2,4-Dinitrotoluene	1	25	16.728	66.9	31.2 - 105	
2,6-Dinitrotoluene	1	25	17.218	68.9	30.6 - 106	
2-Chloronaphthalene	1	25	19.258	77	33.6 - 105	
2-Chlorophenol	1	25	16.474	65.9	26.2 - 91.5	
2-Methylphenol	1	25	15.965	63.9	26.4 - 86.9	
2-Nitroaniline	1	25	17.310	69.2	35.6 - 113	
2-Nitrophenol	1	25	16.436	65.7	25.9 - 106	
3&4-Methyl Phenol	1	25	16.928	67.7	27.9 - 92	
3,3-Dichlorobenzidine	1	25	16.248	65	27.2 - 142	
3-Nitroaniline	1	25	16.368	65.5	33.6 - 103	
4,6-Dinitro-2-methylphenol	1	25	16.215	64.9	18.4 - 148	
4-Bromophenyl-phenylether	1	25	18.945	75.8	40.7 - 116	
4-Chloro-3-methylphenol	1	25	18.937	75.7	35.7 - 100	
4-Chloroaniline	1	25	17.873	71.5	32 - 104	
4-Chlorophenyl-phenylether	1	25	18.540	74.2	39 - 113	
4-Nitroaniline	1	25	19.507	78	35.4 - 124	
4-Nitrophenol	1	25	6.1072	24.4	10 - 52.7	
Acenaphthene	1	25	18.952	75.8	38.7 - 109	
Acenaphthylene	1	25	19.718	78.9	36 - 106	
Anthracene	1	25	19.121	76.5	43.6 - 113	
Azobenzene	1	25	19.224	76.9	37.6 - 111	
Benzo(a)anthracene	1	25	19.519	78.1	51.2 - 112	
Benzo(a)pyrene	1	25	19.796	79.2	45.6 - 106	
Benzo(b)fluoranthene	1	25	19.414	77.7	47.6 - 111	
Benzo(g,h,i)perylene	1	25	21.042	84.2	45.2 - 117	
Benzo(k)fluoranthene	1	25	19.683	78.7	49.4 - 114	
Benzoic Acid	1	25	2.3064	9.23	0 - 79.4	
Benzyl Alcohol	1	25	16.087	64.3	30.1 - 89.2	
Benzylbutyl phthalate	1	25	18.818	75.3	31.8 - 123	
Bis(2-chlorethoxy)methane	1	25	18.659	74.6	37.2 - 111	

Parameters in bold text are reported in this SDG

12065 Lebanon Rd
Mt. Juliet, TN 37122
(615) 758-5858
(800) 767-5859
Fax (615) 758-5859
Tax I.D 62-0814289
Est. 1970

Quality Control Summary
SDG: L735181
URS Corporation - Tucson AZ - 1088308

Test:	Semi-Volatiles by Method 8270C		
Project No:	23446543.0057AA	Matrix:	Water - ug/L
Project:	Holloman AFB	EPA ID:	TN00003
Collection Date:	11/20/2014	**Analytic Batch:**	**WG756405**
Analysis Date:	11/26/2014	Analyst:	377
Instrument ID:	BNAMS19	Prep Date:	11/23/2014
Sample Numbers:	L735181-02, -05, -07		

Laboratory Control Sample (LCS)

Analyte	Dil	True Value	Found	% Rec	Control Limits	Qual
Bis(2-chloroethyl)ether	1	25	18.494	74	22.6 - 108	
Bis(2-chloroisopropyl)ether	1	25	18.059	72.2	32.9 - 100	
Bis(2-ethylhexyl)phthalate	1	25	18.381	73.5	36.9 - 134	
Carbazole	1	25	20.078	80.3	49 - 110	
Chrysene	1	25	20.312	81.2	54.6 - 120	
Dibenz(a,h)anthracene	1	25	20.459	81.8	42.8 - 118	
Dibenzofuran	1	25	19.452	77.8	42.4 - 105	
Diethyl phthalate	1	25	19.871	79.5	36.5 - 129	
Dimethyl phthalate	1	25	19.419	77.7	35.3 - 128	
Di-n-butyl phthalate	1	25	18.947	75.8	41.8 - 120	
Di-n-octyl phthalate	1	25	18.853	75.4	39.7 - 112	
Fluoranthene	1	25	19.260	77	45.9 - 115	
Fluorene	1	25	19.167	76.7	41 - 112	
Hexachloro-1,3-butadiene	1	25	15.700	62.8	16.1 - 104	
Hexachlorobenzene	1	25	20.479	81.9	38.5 - 116	
Hexachloroethane	1	25	16.255	65	16.5 - 89.8	
Indeno(1,2,3-cd)pyrene	1	25	20.843	83.4	45 - 116	
Isophorone	1	25	20.769	83.1	35.4 - 112	
Naphthalene	1	25	17.464	69.9	32.2 - 101	
Nitrobenzene	1	25	18.614	74.5	31.4 - 106	
n-Nitrosodimethylamine	1	25	11.705	46.8	10 - 80.1	
n-Nitrosodi-n-propylamine	1	25	18.423	73.7	33.2 - 106	
n-Nitrosodiphenylamine	1	25	19.851	79.4	44.4 - 113	
Pentachlorophenol	1	25	14.582	58.3	10 - 97.4	
Phenanthrene	1	25	20.057	80.2	46.4 - 113	
Phenol	1	25	10.003	40	10 - 57.9	
Pyrene	1	25	19.975	79.9	46.3 - 117	

Parameters in bold text are reported in this SDG

12065 Lebanon Rd
Mt. Juliet, TN 37122
(615) 758-5858
(800) 767-5859
Fax (615) 758-5859
Tax I.D 62-0814289
Est. 1970

Quality Control Summary
SDG: L735181
URS Corporation - Tucson AZ - 1088308

Test:	Semi-Volatiles by Method 8270C		
Project No:	23446543.0057AA	Matrix:	Water - ug/L
Project:	Holloman AFB	EPA ID:	TN00003
Collection Date:	11/20/2014	**Analytic Batch:**	**WG756405**
Analysis Date:	11/26/2014	Analyst:	377
Instrument ID:	BNAMS19	Prep Date:	11/23/2014
Sample Numbers:	L735181-02, -05, -07		

Laboratory Control Sample Duplicate (LCSD)

Analyte	Dil	True Value	Found	% Rec	Control Limits	Qual
1,2,4-Trichlorobenzene	1	25	16.774	67.1	22.9 - 96.1	
2,4,5-Trichlorophenol	1	25	19.384	77.5	34.9 - 112	
2,4,6-Trichlorophenol	1	25	19.326	77.3	29.8 - 107	
2,4-Dichlorophenol	1	25	18.238	73	31.4 - 103	
2,4-Dimethylphenol	1	25	18.966	75.9	31.9 - 107	
2,4-Dinitrophenol	1	25	11.095	44.4	24.2 - 128	
2,4-Dinitrotoluene	1	25	17.876	71.5	31.2 - 105	
2,6-Dinitrotoluene	1	25	18.450	73.8	30.6 - 106	
2-Chloronaphthalene	1	25	19.836	79.3	33.6 - 105	
2-Chlorophenol	1	25	16.859	67.4	26.2 - 91.5	
2-Methylphenol	1	25	16.647	66.6	26.4 - 86.9	
2-Nitroaniline	1	25	18.510	74	35.6 - 113	
2-Nitrophenol	1	25	16.632	66.5	25.9 - 106	
3&4-Methyl Phenol	1	25	17.605	70.4	27.9 - 92	
3,3-Dichlorobenzidine	1	25	17.117	68.5	27.2 - 142	
3-Nitroaniline	1	25	17.210	68.8	33.6 - 103	
4,6-Dinitro-2-methylphenol	1	25	16.869	67.5	18.4 - 148	
4-Bromophenyl-phenylether	1	25	19.804	79.2	40.7 - 116	
4-Chloro-3-methylphenol	1	25	19.422	77.7	35.7 - 100	
4-Chloroaniline	1	25	18.158	72.6	32 - 104	
4-Chlorophenyl-phenylether	1	25	19.207	76.8	39 - 113	
4-Nitroaniline	1	25	20.683	82.7	35.4 - 124	
4-Nitrophenol	1	25	6.4012	25.6	10 - 52.7	
Acenaphthene	1	25	19.580	78.3	38.7 - 109	
Acenaphthylene	1	25	20.565	82.3	36 - 106	
Anthracene	1	25	19.937	79.7	43.6 - 113	
Azobenzene	1	25	20.128	80.5	37.6 - 111	
Benzo(a)anthracene	1	25	20.171	80.7	51.2 - 112	
Benzo(a)pyrene	1	25	20.490	82	45.6 - 106	
Benzo(b)fluoranthene	1	25	20.430	81.7	47.6 - 111	
Benzo(g,h,i)perylene	1	25	21.452	85.8	45.2 - 117	
Benzo(k)fluoranthene	1	25	19.852	79.4	49.4 - 114	
Benzoic Acid	1	25	2.3062	9.22	0 - 79.4	
Benzyl Alcohol	1	25	16.369	65.5	30.1 - 89.2	
Benzylbutyl phthalate	1	25	19.919	79.7	31.8 - 123	
Bis(2-chlorethoxy)methane	1	25	18.604	74.4	37.2 - 111	

Parameters in bold text are reported in this SDG

12065 Lebanon Rd
Mt. Juliet, TN 37122
(615) 758-5858
(800) 767-5859
Fax (615) 758-5859
Tax I.D 62-0814289
Est. 1970

Quality Control Summary
SDG: L735181
URS Corporation - Tucson AZ - 1088308

Test:	Semi-Volatiles by Method 8270C		
Project No:	23446543.0057AA	Matrix:	Water - ug/L
Project:	Holloman AFB	EPA ID:	TN00003
Collection Date:	11/20/2014	**Analytic Batch:**	**WG756405**
Analysis Date:	11/26/2014	Analyst:	377
Instrument ID:	BNAMS19	Prep Date:	11/23/2014
Sample Numbers:	L735181-02, -05, -07		

Laboratory Control Sample Duplicate (LCSD)

Analyte	Dil	True Value	Found	% Rec	Control Limits	Qual
Bis(2-chloroethyl)ether	1	25	18.125	72.5	22.6 - 108	
Bis(2-chloroisopropyl)ether	1	25	17.907	71.6	32.9 - 100	
Bis(2-ethylhexyl)phthalate	1	25	19.739	79	36.9 - 134	
Carbazole	1	25	20.992	84	49 - 110	
Chrysene	1	25	20.654	82.6	54.6 - 120	
Dibenz(a,h)anthracene	1	25	21.140	84.6	42.8 - 118	
Dibenzofuran	1	25	20.030	80.1	42.4 - 105	
Diethyl phthalate	1	25	20.789	83.2	36.5 - 129	
Dimethyl phthalate	1	25	20.254	81	35.3 - 128	
Di-n-butyl phthalate	1	25	19.682	78.7	41.8 - 120	
Di-n-octyl phthalate	1	25	19.981	79.9	39.7 - 112	
Fluoranthene	1	25	19.811	79.2	45.9 - 115	
Fluorene	1	25	19.942	79.8	41 - 112	
Hexachloro-1,3-butadiene	1	25	15.565	62.3	16.1 - 104	
Hexachlorobenzene	1	25	20.541	82.2	38.5 - 116	
Hexachloroethane	1	25	16.148	64.6	16.5 - 89.8	
Indeno(1,2,3-cd)pyrene	1	25	21.276	85.1	45 - 116	
Isophorone	1	25	20.889	83.6	35.4 - 112	
Naphthalene	1	25	17.408	69.6	32.2 - 101	
Nitrobenzene	1	25	18.640	74.6	31.4 - 106	
n-Nitrosodimethylamine	1	25	11.896	47.6	10 - 80.1	
n-Nitrosodi-n-propylamine	1	25	19.086	76.3	33.2 - 106	
n-Nitrosodiphenylamine	1	25	20.463	81.9	44.4 - 113	
Pentachlorophenol	1	25	15.891	63.6	10 - 97.4	
Phenanthrene	1	25	20.278	81.1	46.4 - 113	
Phenol	1	25	10.484	41.9	10 - 57.9	
Pyrene	1	25	20.746	83	46.3 - 117	

Parameters in bold text are reported in this SDG

12065 Lebanon Rd
Mt. Juliet, TN 37122
(615) 758-5858
(800) 767-5859
Fax (615) 758-5859
Tax I.D 62-0814289
Est. 1970

Quality Control Summary
SDG: L735181
URS Corporation - Tucson AZ - 1088308

Test:	Semi-Volatiles by Method 8270C		
Project No:	23446543.0057AA	Matrix:	Water - ug/L
Project:	Holloman AFB	EPA ID:	TN00003
Collection Date:	11/20/2014	**Analytic Batch:**	**WG756405**
Analysis Date:	11/26/2014	Analyst:	377
Instrument ID:	BNAMS19	Prep Date:	11/23/2014
Sample Numbers:	L735181-02, -05, -07		

Laboratory Control Sample / Laboratory Control Sample Duplicate

Analyte	Dil	Spike	LCS	% Rec	LCSD	% Rec	Control Limits	% Rec Qual	% RPD	Control Limits	RPD Qual
1,2,4-Trichlorobenzene	1	25	17.019	68.1	16.774	67.1	22.9 - 96.1		1.45	27.5	
2,4,5-Trichlorophenol	1	25	17.928	71.7	19.384	77.5	34.9 - 112		7.8	23.9	
2,4,6-Trichlorophenol	1	25	18.061	72.2	19.326	77.3	29.8 - 107		6.77	24.1	
2,4-Dichlorophenol	1	25	17.899	71.6	18.238	73	31.4 - 103		1.88	24.9	
2,4-Dimethylphenol	1	25	18.471	73.9	18.966	75.9	31.9 - 107		2.65	25.7	
2,4-Dinitrophenol	1	25	11.396	45.6	11.095	44.4	24.2 - 128		2.68	20.5	
2,4-Dinitrotoluene	1	25	16.728	66.9	17.876	71.5	31.2 - 105		6.64	22	
2,6-Dinitrotoluene	1	25	17.218	68.9	18.450	73.8	30.6 - 106		6.91	23.1	
2-Chloronaphthalene	1	25	19.258	77	19.836	79.3	33.6 - 105		2.96	23	
2-Chlorophenol	1	25	16.474	65.9	16.859	67.4	26.2 - 91.5		2.31	26.5	
2-Methylphenol	1	25	15.965	63.9	16.647	66.6	26.4 - 86.9		4.18	26.5	
2-Nitroaniline	1	25	17.310	69.2	18.510	74	35.6 - 113		6.7	20.9	
2-Nitrophenol	1	25	16.436	65.7	16.632	66.5	25.9 - 106		1.18	26.9	
3&4-Methyl Phenol	1	25	16.928	67.7	17.605	70.4	27.9 - 92		3.92	27	
3,3-Dichlorobenzidine	1	25	16.248	65	17.117	68.5	27.2 - 142		5.21	22.3	
3-Nitroaniline	1	25	16.368	65.5	17.210	68.8	33.6 - 103		5.02	21.8	
4,6-Dinitro-2-methylphenol	1	25	16.215	64.9	16.869	67.5	18.4 - 148		3.95	24.4	
4-Bromophenyl-phenylether	1	25	18.945	75.8	19.804	79.2	40.7 - 116		4.43	21	
4-Chloro-3-methylphenol	1	25	18.937	75.7	19.422	77.7	35.7 - 100		2.53	22.9	
4-Chloroaniline	1	25	17.873	71.5	18.158	72.6	32 - 104		1.58	26.4	
4-Chlorophenyl-phenylether	1	25	18.540	74.2	19.207	76.8	39 - 113		3.53	20.9	
4-Nitroaniline	1	25	19.507	78	20.683	82.7	35.4 - 124		5.85	23.1	
4-Nitrophenol	1	25	6.1072	24.4	6.4012	25.6	10 - 52.7		4.7	40	
Acenaphthene	1	25	18.952	75.8	19.580	78.3	38.7 - 109		3.26	21.5	
Acenaphthylene	1	25	19.718	78.9	20.565	82.3	36 - 106		4.2	21	
Anthracene	1	25	19.121	76.5	19.937	79.7	43.6 - 113		4.18	18.8	
Azobenzene	1	25	19.224	76.9	20.128	80.5	37.6 - 111		4.59	21.1	
Benzo(a)anthracene	1	25	19.519	78.1	20.171	80.7	51.2 - 112		3.29	20	
Benzo(a)pyrene	1	25	19.796	79.2	20.490	82	45.6 - 106		3.44	20	
Benzo(b)fluoranthene	1	25	19.414	77.7	20.430	81.7	47.6 - 111		5.1	20	
Benzo(g,h,i)perylene	1	25	21.042	84.2	21.452	85.8	45.2 - 117		1.93	20	
Benzo(k)fluoranthene	1	25	19.683	78.7	19.852	79.4	49.4 - 114		0.86	20	
Benzoic Acid	1	25	2.3064	9.23	2.3062	9.22	0 - 79.4		0.01	31.1	
Benzyl Alcohol	1	25	16.087	64.3	16.369	65.5	30.1 - 89.2		1.74	24.8	
Benzylbutyl phthalate	1	25	18.818	75.3	19.919	79.7	31.8 - 123		5.68	20.7	
Bis(2-chlorethoxy)methane	1	25	18.659	74.6	18.604	74.4	37.2 - 111		0.29	24.1	

Parameters in bold text are reported in this SDG

12065 Lebanon Rd
Mt. Juliet, TN 37122
(615) 758-5858
(800) 767-5859
Fax (615) 758-5859
Tax I.D 62-0814289
Est. 1970

Quality Control Summary
SDG: L735181
URS Corporation - Tucson AZ - 1088308

Test:	Semi-Volatiles by Method 8270C		
Project No:	23446543.0057AA	Matrix:	Water - ug/L
Project:	Holloman AFB	EPA ID:	TN00003
Collection Date:	11/20/2014	**Analytic Batch:**	**WG756405**
Analysis Date:	11/26/2014	Analyst:	377
Instrument ID:	BNAMS19	Prep Date:	11/23/2014
Sample Numbers:	L735181-02, -05, -07		

Laboratory Control Sample / Laboratory Control Sample Duplicate

Analyte	Dil	Spike	LCS	% Rec	LCSD	% Rec	Control Limits	% Rec Qual	% RPD	Control Limits	RPD Qual
Bis(2-chloroethyl)ether	1	25	18.494	74	18.125	72.5	22.6 - 108		2.02	27.9	
Bis(2-chloroisopropyl)ether	1	25	18.059	72.2	17.907	71.6	32.9 - 100		0.85	25.1	
Bis(2-ethylhexyl)phthalate	1	25	18.381	73.5	19.739	79	36.9 - 134		7.12	23.6	
Carbazole	1	25	20.078	80.3	20.992	84	49 - 110		4.45	20	
Chrysene	1	25	20.312	81.2	20.654	82.6	54.6 - 120		1.67	20	
Dibenz(a,h)anthracene	1	25	20.459	81.8	21.140	84.6	42.8 - 118		3.27	20	
Dibenzofuran	1	25	19.452	77.8	20.030	80.1	42.4 - 105		2.93	20	
Diethyl phthalate	1	25	19.871	79.5	20.789	83.2	36.5 - 129		4.51	20	
Dimethyl phthalate	1	25	19.419	77.7	20.254	81	35.3 - 128		4.21	20.8	
Di-n-butyl phthalate	1	25	18.947	75.8	19.682	78.7	41.8 - 120		3.8	20.2	
Di-n-octyl phthalate	1	25	18.853	75.4	19.981	79.9	39.7 - 112		5.81	21.1	
Fluoranthene	1	25	19.260	77	19.811	79.2	45.9 - 115		2.82	20	
Fluorene	1	25	19.167	76.7	19.942	79.8	41 - 112		3.96	20.2	
Hexachloro-1,3-butadiene	1	25	15.700	62.8	15.565	62.3	16.1 - 104		0.86	31.2	
Hexachlorobenzene	1	25	20.479	81.9	20.541	82.2	38.5 - 116		0.3	20.1	
Hexachloroethane	1	25	16.255	65	16.148	64.6	16.5 - 89.8		0.67	30.7	
Indeno(1,2,3-cd)pyrene	1	25	20.843	83.4	21.276	85.1	45 - 116		2.06	20	
Isophorone	1	25	20.769	83.1	20.889	83.6	35.4 - 112		0.58	21.5	
Naphthalene	1	25	17.464	69.9	17.408	69.6	32.2 - 101		0.32	23.8	
Nitrobenzene	1	25	18.614	74.5	18.640	74.6	31.4 - 106		0.14	25.7	
n-Nitrosodimethylamine	1	25	11.705	46.8	11.896	47.6	10 - 80.1		1.62	37.5	
n-Nitrosodi-n-propylamine	1	25	18.423	73.7	19.086	76.3	33.2 - 106		3.54	23.7	
n-Nitrosodiphenylamine	1	25	19.851	79.4	20.463	81.9	44.4 - 113		3.04	20	
Pentachlorophenol	1	25	14.582	58.3	15.891	63.6	10 - 97.4		8.59	35.1	
Phenanthrene	1	25	20.057	80.2	20.278	81.1	46.4 - 113		1.1	20	
Phenol	1	25	10.003	40	10.484	41.9	10 - 57.9		4.69	35	
Pyrene	1	25	19.975	79.9	20.746	83	46.3 - 117		3.79	20	

Parameters in bold text are reported in this SDG

12065 Lebanon Rd
Mt. Juliet, TN 37122
(615) 758-5858
(800) 767-5859
Fax (615) 758-5859
Tax I.D 62-0814289
Est. 1970

Quality Control Summary
SDG: L735181
URS Corporation - Tucson AZ - 1088308

Test:	Semi-Volatiles by Method 8270C		
Project No:	23446543.0057AA	Matrix:	Water - ug/L
Project:	Holloman AFB	EPA ID:	TN00003
Collection Date:	11/20/2014	**Analytic Batch:**	**WG756857**
Analysis Date:	11/26/2014	Analyst:	280
Instrument ID:	BNAMS11	Prep Date:	11/25/2014
Sample Numbers:	L735181-08		

Laboratory Control Sample (LCS)

Analyte	Dil	True Value	Found	% Rec	Control Limits	Qual
1,2,4-Trichlorobenzene	1	25	15.463	61.9	22.9 - 96.1	
2,4,5-Trichlorophenol	1	25	18.958	75.8	34.9 - 112	
2,4,6-Trichlorophenol	1	25	18.504	74	29.8 - 107	
2,4-Dichlorophenol	1	25	18.844	75.4	31.4 - 103	
2,4-Dimethylphenol	1	25	16.336	65.3	31.9 - 107	
2,4-Dinitrophenol	1	25	17.540	70.2	24.2 - 128	
2,4-Dinitrotoluene	1	25	18.625	74.5	31.2 - 105	
2,6-Dinitrotoluene	1	25	18.646	74.6	30.6 - 106	
2-Chloronaphthalene	1	25	16.658	66.6	33.6 - 105	
2-Chlorophenol	1	25	15.889	63.6	26.2 - 91.5	
2-Methylnaphthalene	1	25	15.877	63.5	33.8 - 98.6	
2-Methylphenol	1	25	14.222	56.9	26.4 - 86.9	
2-Nitroaniline	1	25	18.724	74.9	35.6 - 113	
2-Nitrophenol	1	25	18.726	74.9	25.9 - 106	
3&4-Methyl Phenol	1	25	15.153	60.6	27.9 - 92	
3,3-Dichlorobenzidine	1	25	17.591	70.4	27.2 - 142	
3-Nitroaniline	1	25	17.621	70.5	33.6 - 103	
4,6-Dinitro-2-methylphenol	1	25	22.486	89.9	18.4 - 148	
4-Bromophenyl-phenylether	1	25	17.413	69.7	40.7 - 116	
4-Chloro-3-methylphenol	1	25	16.706	66.8	35.7 - 100	
4-Chloroaniline	1	25	14.431	57.7	32 - 104	
4-Chlorophenyl-phenylether	1	25	17.438	69.8	39 - 113	
4-Nitroaniline	1	25	20.407	81.6	35.4 - 124	
4-Nitrophenol	1	25	9.0800	36.3	10 - 52.7	
Acenaphthene	1	25	17.359	69.4	38.7 - 109	
Acenaphthylene	1	25	17.846	71.4	36 - 106	
Anthracene	1	25	18.142	72.6	43.6 - 113	
Azobenzene	1	25	14.105	56.4	37.6 - 111	
Benzo(a)anthracene	1	25	17.655	70.6	51.2 - 112	
Benzo(a)pyrene	1	25	17.925	71.7	45.6 - 106	
Benzo(b)fluoranthene	1	25	17.176	68.7	47.6 - 111	
Benzo(g,h,i)perylene	1	25	18.340	73.4	45.2 - 117	
Benzo(k)fluoranthene	1	25	18.347	73.4	49.4 - 114	
Benzoic Acid	1	25	4.6915	18.8	0 - 79.4	
Benzyl Alcohol	1	25	12.705	50.8	30.1 - 89.2	
Benzylbutyl phthalate	1	25	16.409	65.6	31.8 - 123	

Parameters in bold text are reported in this SDG

12065 Lebanon Rd
Mt. Juliet, TN 37122
(615) 758-5858
(800) 767-5859
Fax (615) 758-5859
Tax I.D 62-0814289
Est. 1970

Quality Control Summary
SDG: L735181
URS Corporation - Tucson AZ - 1088308

Test:	Semi-Volatiles by Method 8270C		
Project No:	23446543.0057AA	Matrix:	Water - ug/L
Project:	Holloman AFB	EPA ID:	TN00003
Collection Date:	11/20/2014	**Analytic Batch:**	**WG756857**
Analysis Date:	11/26/2014	Analyst:	280
Instrument ID:	BNAMS11	Prep Date:	11/25/2014
Sample Numbers:	L735181-08		

Laboratory Control Sample (LCS)

Analyte	Dil	True Value	Found	% Rec	Control Limits	Qual
Bis(2-chlorethoxy)methane	1	25	14.690	58.8	37.2 - 111	
Bis(2-chloroethyl)ether	1	25	13.841	55.4	22.6 - 108	
Bis(2-chloroisopropyl)ether	1	25	15.863	63.5	32.9 - 100	
Bis(2-ethylhexyl)phthalate	1	25	16.248	65	36.9 - 134	
Carbazole	1	25	17.962	71.8	49 - 110	
Chrysene	1	25	17.599	70.4	54.6 - 120	
Dibenz(a,h)anthracene	1	25	19.109	76.4	42.8 - 118	
Dibenzofuran	1	25	17.610	70.4	42.4 - 105	
Diethyl phthalate	1	25	16.657	66.6	36.5 - 129	
Dimethyl phthalate	1	25	17.457	69.8	35.3 - 128	
Di-n-butyl phthalate	1	25	17.237	68.9	41.8 - 120	
Di-n-octyl phthalate	1	25	17.250	69	39.7 - 112	
Fluoranthene	1	25	18.602	74.4	45.9 - 115	
Fluorene	1	25	17.716	70.9	41 - 112	
Hexachloro-1,3-butadiene	1	25	15.929	63.7	16.1 - 104	
Hexachlorobenzene	1	25	16.649	66.6	38.5 - 116	
Hexachloroethane	1	25	13.913	55.7	16.5 - 89.8	
Indeno(1,2,3-cd)pyrene	1	25	18.754	75	45 - 116	
Isophorone	1	25	16.328	65.3	35.4 - 112	
Naphthalene	1	25	14.947	59.8	32.2 - 101	
Nitrobenzene	1	25	14.253	57	31.4 - 106	
n-Nitrosodimethylamine	1	25	9.1148	36.5	10 - 80.1	
n-Nitrosodi-n-propylamine	1	25	13.370	53.5	33.2 - 106	
n-Nitrosodiphenylamine	1	25	17.536	70.1	44.4 - 113	
Pentachlorophenol	1	25	14.610	58.4	10 - 97.4	
Phenanthrene	1	25	17.946	71.8	46.4 - 113	
Phenol	1	25	8.0574	32.2	10 - 57.9	
Pyrene	1	25	18.940	75.8	46.3 - 117	

Parameters in bold text are reported in this SDG

12065 Lebanon Rd
Mt. Juliet, TN 37122
(615) 758-5858
(800) 767-5859
Fax (615) 758-5859
Tax I.D 62-0814289
Est. 1970

Quality Control Summary
SDG: L735181
URS Corporation - Tucson AZ - 1088308

Test:	Semi-Volatiles by Method 8270C		
Project No:	23446543.0057AA	Matrix:	Water - ug/L
Project:	Holloman AFB	EPA ID:	TN00003
Collection Date:	11/20/2014	**Analytic Batch:**	**WG756857**
Analysis Date:	11/26/2014	Analyst:	280
Instrument ID:	BNAMS11	Prep Date:	11/25/2014
Sample Numbers:	L735181-08		

Laboratory Control Sample Duplicate (LCSD)

Analyte	Dil	True Value	Found	% Rec	Control Limits	Qual
1,2,4-Trichlorobenzene	1	25	14.678	58.7	22.9 - 96.1	
2,4,5-Trichlorophenol	1	25	18.626	74.5	34.9 - 112	
2,4,6-Trichlorophenol	1	25	17.856	71.4	29.8 - 107	
2,4-Dichlorophenol	1	25	17.971	71.9	31.4 - 103	
2,4-Dimethylphenol	1	25	16.247	65	31.9 - 107	
2,4-Dinitrophenol	1	25	16.188	64.8	24.2 - 128	
2,4-Dinitrotoluene	1	25	18.524	74.1	31.2 - 105	
2,6-Dinitrotoluene	1	25	18.249	73	30.6 - 106	
2-Chloronaphthalene	1	25	16.476	65.9	33.6 - 105	
2-Chlorophenol	1	25	15.415	61.7	26.2 - 91.5	
2-Methylnaphthalene	1	25	15.363	61.5	33.8 - 98.6	
2-Methylphenol	1	25	14.056	56.2	26.4 - 86.9	
2-Nitroaniline	1	25	18.507	74	35.6 - 113	
2-Nitrophenol	1	25	17.459	69.8	25.9 - 106	
3&4-Methyl Phenol	1	25	15.167	60.7	27.9 - 92	
3,3-Dichlorobenzidine	1	25	17.447	69.8	27.2 - 142	
3-Nitroaniline	1	25	17.281	69.1	33.6 - 103	
4,6-Dinitro-2-methylphenol	1	25	21.746	87	18.4 - 148	
4-Bromophenyl-phenylether	1	25	17.110	68.4	40.7 - 116	
4-Chloro-3-methylphenol	1	25	16.419	65.7	35.7 - 100	
4-Chloroaniline	1	25	14.773	59.1	32 - 104	
4-Chlorophenyl-phenylether	1	25	16.988	68	39 - 113	
4-Nitroaniline	1	25	21.041	84.2	35.4 - 124	
4-Nitrophenol	1	25	8.2476	33	10 - 52.7	
Acenaphthene	1	25	17.208	68.8	38.7 - 109	
Acenaphthylene	1	25	17.412	69.6	36 - 106	
Anthracene	1	25	18.032	72.1	43.6 - 113	
Azobenzene	1	25	14.502	58	37.6 - 111	
Benzo(a)anthracene	1	25	17.745	71	51.2 - 112	
Benzo(a)pyrene	1	25	17.806	71.2	45.6 - 106	
Benzo(b)fluoranthene	1	25	17.071	68.3	47.6 - 111	
Benzo(g,h,i)perylene	1	25	17.919	71.7	45.2 - 117	
Benzo(k)fluoranthene	1	25	18.199	72.8	49.4 - 114	
Benzoic Acid	1	25	4.3852	17.5	0 - 79.4	
Benzyl Alcohol	1	25	12.897	51.6	30.1 - 89.2	
Benzylbutyl phthalate	1	25	16.903	67.6	31.8 - 123	

Parameters in bold text are reported in this SDG

12065 Lebanon Rd
Mt. Juliet, TN 37122
(615) 758-5858
(800) 767-5859
Fax (615) 758-5859
Tax I.D 62-0814289
Est. 1970

Quality Control Summary
SDG: L735181
URS Corporation - Tucson AZ - 1088308

Test:	Semi-Volatiles by Method 8270C		
Project No:	23446543.0057AA	Matrix:	Water - ug/L
Project:	Holloman AFB	EPA ID:	TN00003
Collection Date:	11/20/2014	**Analytic Batch:**	**WG756857**
Analysis Date:	11/26/2014	Analyst:	280
Instrument ID:	BNAMS11	Prep Date:	11/25/2014
Sample Numbers:	L735181-08		

Laboratory Control Sample Duplicate (LCSD)

Analyte	Dil	True Value	Found	% Rec	Control Limits	Qual
Bis(2-chlorethoxy)methane	1	25	14.537	58.1	37.2 - 111	
Bis(2-chloroethyl)ether	1	25	14.246	57	22.6 - 108	
Bis(2-chloroisopropyl)ether	1	25	15.718	62.9	32.9 - 100	
Bis(2-ethylhexyl)phthalate	1	25	16.763	67.1	36.9 - 134	
Carbazole	1	25	17.630	70.5	49 - 110	
Chrysene	1	25	17.441	69.8	54.6 - 120	
Dibenz(a,h)anthracene	1	25	18.752	75	42.8 - 118	
Dibenzofuran	1	25	17.490	70	42.4 - 105	
Diethyl phthalate	1	25	16.728	66.9	36.5 - 129	
Dimethyl phthalate	1	25	17.114	68.5	35.3 - 128	
Di-n-butyl phthalate	1	25	16.858	67.4	41.8 - 120	
Di-n-octyl phthalate	1	25	17.662	70.6	39.7 - 112	
Fluoranthene	1	25	18.061	72.2	45.9 - 115	
Fluorene	1	25	17.377	69.5	41 - 112	
Hexachloro-1,3-butadiene	1	25	14.639	58.6	16.1 - 104	
Hexachlorobenzene	1	25	16.075	64.3	38.5 - 116	
Hexachloroethane	1	25	13.467	53.9	16.5 - 89.8	
Indeno(1,2,3-cd)pyrene	1	25	18.356	73.4	45 - 116	
Isophorone	1	25	16.193	64.8	35.4 - 112	
Naphthalene	1	25	14.676	58.7	32.2 - 101	
Nitrobenzene	1	25	14.554	58.2	31.4 - 106	
n-Nitrosodimethylamine	1	25	9.3687	37.5	10 - 80.1	
n-Nitrosodi-n-propylamine	1	25	13.621	54.5	33.2 - 106	
n-Nitrosodiphenylamine	1	25	17.183	68.7	44.4 - 113	
Pentachlorophenol	1	25	13.175	52.7	10 - 97.4	
Phenanthrene	1	25	17.604	70.4	46.4 - 113	
Phenol	1	25	7.9021	31.6	10 - 57.9	
Pyrene	1	25	18.667	74.7	46.3 - 117	

Parameters in bold text are reported in this SDG

12065 Lebanon Rd
Mt. Juliet, TN 37122
(615) 758-5858
(800) 767-5859
Fax (615) 758-5859
Tax I.D 62-0814289
Est. 1970

Quality Control Summary
SDG: L735181
URS Corporation - Tucson AZ - 1088308

Test:	Semi-Volatiles by Method 8270C		
Project No:	23446543.0057AA	Matrix:	Water - ug/L
Project:	Holloman AFB	EPA ID:	TN00003
Collection Date:	11/20/2014	**Analytic Batch:**	**WG756857**
Analysis Date:	11/26/2014	Analyst:	280
Instrument ID:	BNAMS11	Prep Date:	11/25/2014
Sample Numbers:	L735181-08		

Laboratory Control Sample / Laboratory Control Sample Duplicate

Analyte	Dil	Spike	LCS	% Rec	LCSD	% Rec	Control Limits	% Rec Qual	% RPD	Control Limits	RPD Qual
1,2,4-Trichlorobenzene	1	25	15.463	61.9	14.678	58.7	22.9 - 96.1		5.21	27.5	
2,4,5-Trichlorophenol	1	25	18.958	75.8	18.626	74.5	34.9 - 112		1.77	23.9	
2,4,6-Trichlorophenol	1	25	18.504	74	17.856	71.4	29.8 - 107		3.56	24.1	
2,4-Dichlorophenol	1	25	18.844	75.4	17.971	71.9	31.4 - 103		4.74	24.9	
2,4-Dimethylphenol	1	25	16.336	65.3	16.247	65	31.9 - 107		0.55	25.7	
2,4-Dinitrophenol	1	25	17.540	70.2	16.188	64.8	24.2 - 128		8.02	20.5	
2,4-Dinitrotoluene	1	25	18.625	74.5	18.524	74.1	31.2 - 105		0.54	22	
2,6-Dinitrotoluene	1	25	18.646	74.6	18.249	73	30.6 - 106		2.15	23.1	
2-Chloronaphthalene	1	25	16.658	66.6	16.476	65.9	33.6 - 105		1.1	23	
2-Chlorophenol	1	25	15.889	63.6	15.415	61.7	26.2 - 91.5		3.03	26.5	
2-Methylnaphthalene	1	25	15.877	63.5	15.363	61.5	33.8 - 98.6		3.3	24.2	
2-Methylphenol	1	25	14.222	56.9	14.056	56.2	26.4 - 86.9		1.17	26.5	
2-Nitroaniline	1	25	18.724	74.9	18.507	74	35.6 - 113		1.16	20.9	
2-Nitrophenol	1	25	18.726	74.9	17.459	69.8	25.9 - 106		7	26.9	
3&4-Methyl Phenol	1	25	15.153	60.6	15.167	60.7	27.9 - 92		0.09	27	
3,3-Dichlorobenzidine	1	25	17.591	70.4	17.447	69.8	27.2 - 142		0.82	22.3	
3-Nitroaniline	1	25	17.621	70.5	17.281	69.1	33.6 - 103		1.95	21.8	
4,6-Dinitro-2-methylphenol	1	25	22.486	89.9	21.746	87	18.4 - 148		3.34	24.4	
4-Bromophenyl-phenylether	1	25	17.413	69.7	17.110	68.4	40.7 - 116		1.75	21	
4-Chloro-3-methylphenol	1	25	16.706	66.8	16.419	65.7	35.7 - 100		1.74	22.9	
4-Chloroaniline	1	25	14.431	57.7	14.773	59.1	32 - 104		2.34	26.4	
4-Chlorophenyl-phenylether	1	25	17.438	69.8	16.988	68	39 - 113		2.62	20.9	
4-Nitroaniline	1	25	20.407	81.6	21.041	84.2	35.4 - 124		3.06	23.1	
4-Nitrophenol	1	25	9.0800	36.3	8.2476	33	10 - 52.7		9.61	40	
Acenaphthene	1	25	17.359	69.4	17.208	68.8	38.7 - 109		0.87	21.5	
Acenaphthylene	1	25	17.846	71.4	17.412	69.6	36 - 106		2.47	21	
Anthracene	1	25	18.142	72.6	18.032	72.1	43.6 - 113		0.61	18.8	
Azobenzene	1	25	14.105	56.4	14.502	58	37.6 - 111		2.78	21.1	
Benzo(a)anthracene	1	25	17.655	70.6	17.745	71	51.2 - 112		0.51	20	
Benzo(a)pyrene	1	25	17.925	71.7	17.806	71.2	45.6 - 106		0.66	20	
Benzo(b)fluoranthene	1	25	17.176	68.7	17.071	68.3	47.6 - 111		0.61	20	
Benzo(g,h,i)perylene	1	25	18.340	73.4	17.919	71.7	45.2 - 117		2.32	20	
Benzo(k)fluoranthene	1	25	18.347	73.4	18.199	72.8	49.4 - 114		0.81	20	
Benzoic Acid	1	25	4.6915	18.8	4.3852	17.5	0 - 79.4		6.75	31.1	
Benzyl Alcohol	1	25	12.705	50.8	12.897	51.6	30.1 - 89.2		1.5	24.8	
Benzylbutyl phthalate	1	25	16.409	65.6	16.903	67.6	31.8 - 123		2.97	20.7	

Parameters in bold text are reported in this SDG

12065 Lebanon Rd
Mt. Juliet, TN 37122
(615) 758-5858
(800) 767-5859
Fax (615) 758-5859
Tax I.D 62-0814289
Est. 1970

Quality Control Summary
SDG: L735181
URS Corporation - Tucson AZ - 1088308

Test:	Semi-Volatiles by Method 8270C		
Project No:	23446543.0057AA	Matrix:	Water - ug/L
Project:	Holloman AFB	EPA ID:	TN00003
Collection Date:	11/20/2014	**Analytic Batch:**	**WG756857**
Analysis Date:	11/26/2014	Analyst:	280
Instrument ID:	BNAMS11	Prep Date:	11/25/2014
Sample Numbers:	L735181-08		

Laboratory Control Sample / Laboratory Control Sample Duplicate

Analyte	Dil	Spike	LCS	% Rec	LCSD	% Rec	Control Limits	% Rec Qual	% RPD	Control Limits	RPD Qual
Bis(2-chlorethoxy)methane	1	25	14.690	58.8	14.537	58.1	37.2 - 111		1.05	24.1	
Bis(2-chloroethyl)ether	1	25	13.841	55.4	14.246	57	22.6 - 108		2.89	27.9	
Bis(2-chloroisopropyl)ether	1	25	15.863	63.5	15.718	62.9	32.9 - 100		0.92	25.1	
Bis(2-ethylhexyl)phthalate	1	25	16.248	65	16.763	67.1	36.9 - 134		3.12	23.6	
Carbazole	1	25	17.962	71.8	17.630	70.5	49 - 110		1.87	20	
Chrysene	1	25	17.599	70.4	17.441	69.8	54.6 - 120		0.9	20	
Dibenz(a,h)anthracene	1	25	19.109	76.4	18.752	75	42.8 - 118		1.89	20	
Dibenzofuran	1	25	17.610	70.4	17.490	70	42.4 - 105		0.68	20	
Diethyl phthalate	1	25	16.657	66.6	16.728	66.9	36.5 - 129		0.43	20	
Dimethyl phthalate	1	25	17.457	69.8	17.114	68.5	35.3 - 128		1.98	20.8	
Di-n-butyl phthalate	1	25	17.237	68.9	16.858	67.4	41.8 - 120		2.22	20.2	
Di-n-octyl phthalate	1	25	17.250	69	17.662	70.6	39.7 - 112		2.36	21.1	
Fluoranthene	1	25	18.602	74.4	18.061	72.2	45.9 - 115		2.95	20	
Fluorene	1	25	17.716	70.9	17.377	69.5	41 - 112		1.93	20.2	
Hexachloro-1,3-butadiene	1	25	15.929	63.7	14.639	58.6	16.1 - 104		8.44	31.2	
Hexachlorobenzene	1	25	16.649	66.6	16.075	64.3	38.5 - 116		3.51	20.1	
Hexachloroethane	1	25	13.913	55.7	13.467	53.9	16.5 - 89.8		3.26	30.7	
Indeno(1,2,3-cd)pyrene	1	25	18.754	75	18.356	73.4	45 - 116		2.15	20	
Isophorone	1	25	16.328	65.3	16.193	64.8	35.4 - 112		0.83	21.5	
Naphthalene	1	25	14.947	59.8	14.676	58.7	32.2 - 101		1.83	23.8	
Nitrobenzene	1	25	14.253	57	14.554	58.2	31.4 - 106		2.09	25.7	
n-Nitrosodimethylamine	1	25	9.1148	36.5	9.3687	37.5	10 - 80.1		2.75	37.5	
n-Nitrosodi-n-propylamine	1	25	13.370	53.5	13.621	54.5	33.2 - 106		1.86	23.7	
n-Nitrosodiphenylamine	1	25	17.536	70.1	17.183	68.7	44.4 - 113		2.03	20	
Pentachlorophenol	1	25	14.610	58.4	13.175	52.7	10 - 97.4		10.3	35.1	
Phenanthrene	1	25	17.946	71.8	17.604	70.4	46.4 - 113		1.92	20	
Phenol	1	25	8.0574	32.2	7.9021	31.6	10 - 57.9		1.95	35	
Pyrene	1	25	18.940	75.8	18.667	74.7	46.3 - 117		1.45	20	

Parameters in bold text are reported in this SDG

12065 Lebanon Rd
Mt. Juliet, TN 37122
(615) 758-5858
(800) 767-5859
Fax (615) 758-5859
Tax I.D 62-0814289
Est. 1970

Quality Control Summary
SDG: L735181
URS Corporation - Tucson AZ - 1088308

Test:	Semi-Volatiles by Method 8270C		
Project No:	23446543.0057AA	Matrix:	Water - ug/L
Project:	Holloman AFB	EPA ID:	TN00003
Collection Date:	11/20/2014	**Analytic Batch:**	**WG756405**
Analysis Date:	11/26/2014	Analyst:	377
Instrument ID:	BNAMS19	Prep Date:	11/23/2014
Sample Numbers:	L735181-02, -05, -07		

Internal Standard Response and Retention Time Summary

File ID: 1125A_02
Analyzed: 11/26/14 062600

	DCB		ACE		CHR		NAP	
	Response	**RT**	**Response**	**RT**	**Response**	**RT**	**Response**	**RT**
12 Hr. Std	138029	5.38	374490	8.53	616274	13.04	600387	6.65
Upper Limit	276000	5.88	749000	9.03	1230000	13.54	1200000	7.15
Lower Limit	69000	4.88	187000	8.03	308000	12.54	300000	6.15
Sample ID	**Response**	**RT**	**Response**	**RT**	**Response**	**RT**	**Response**	**RT**
L735181-02	121149	5.38	322162	8.53	519366	13.04	519481	6.65
L735181-05	130467	5.38	352863	8.53	568924	13.04	565541	6.65
L735181-07	133620	5.38	354414	8.53	575004	13.04	578948	6.65
LCSD WG756405	137003	5.38	372302	8.53	608079	13.04	597557	6.65
LCS WG756405	134531	5.38	368584	8.53	600075	13.04	580403	6.65
BLANK WG756405	135015	5.38	360024	8.53	570297	13.04	583064	6.65

Legend:

DCB -- 1,4-Dichlorobenzene-d4
ACE -- Acenaphthene-d10
CHR -- Chrysene-d12
NAP -- Naphthalene-d8
PER -- Perylene-d12
PHEN -- Phenanthrene-d10

Parameters in bold text are reported in this SDG

12065 Lebanon Rd
Mt. Juliet, TN 37122
(615) 758-5858
(800) 767-5859
Fax (615) 758-5859
Tax I.D 62-0814289
Est. 1970

Quality Control Summary
SDG: L735181
URS Corporation - Tucson AZ - 1088308

Test:	Semi-Volatiles by Method 8270C		
Project No:	23446543.0057AA	Matrix:	Water - ug/L
Project:	Holloman AFB	EPA ID:	TN00003
Collection Date:	11/20/2014	**Analytic Batch:**	**WG756405**
Analysis Date:	11/26/2014	Analyst:	377
Instrument ID:	BNAMS19	Prep Date:	11/23/2014
Sample Numbers:	L735181-02, -05, -07		

Internal Standard Response and Retention Time Summary

File ID: 1125A_02
Analyzed: 11/26/14 062600

	DCB		PER		PHEN	
	Response	**RT**	**Response**	**RT**	**Response**	**RT**
12 Hr. Std	138029	5.38	636209	14.87	627760	10.15
Upper Limit	276000	5.88	1270000	15.37	1260000	10.65
Lower Limit	69000	4.88	318000	14.37	314000	9.65
Sample ID	**Response**	**RT**	**Response**	**RT**	**Response**	**RT**
L735181-02	121149	5.38	552248	14.87	534968	10.15
L735181-05	130467	5.38	612218	14.87	591440	10.15
L735181-07	133620	5.38	615453	14.87	597149	10.15
LCSD WG756405	137003	5.38	646212	14.87	626044	10.15
LCS WG756405	134531	5.38	632903	14.87	611143	10.15
BLANK WG756405	135015	5.38	617303	14.87	598653	10.15

Legend:
DCB -- 1,4-Dichlorobenzene-d4
ACE -- Acenaphthene-d10
CHR -- Chrysene-d12
NAP -- Naphthalene-d8
PER -- Perylene-d12
PHEN -- Phenanthrene-d10

Parameters in bold text are reported in this SDG

12065 Lebanon Rd
Mt. Juliet, TN 37122
(615) 758-5858
(800) 767-5859
Fax (615) 758-5859
Tax I.D 62-0814289
Est. 1970

YOUR LAB OF CHOICE

Quality Control Summary
SDG: L735181
URS Corporation - Tucson AZ - 1088308

Test:	Semi-Volatiles by Method 8270C		
Project No:	23446543.0057AA	Matrix:	Water - ug/L
Project:	Holloman AFB	EPA ID:	TN00003
Collection Date:	11/20/2014	**Analytic Batch:**	**WG756857**
Analysis Date:	11/26/2014	Analyst:	280
Instrument ID:	BNAMS11	Prep Date:	11/25/2014
Sample Numbers:	L735181-08		

Internal Standard Response and Retention Time Summary

File ID: 1125B_02
Analyzed: 11/26/14 045000

	DCB		ACE		CHR		NAP	
	Response	**RT**	**Response**	**RT**	**Response**	**RT**	**Response**	**RT**
12 Hr. Std	85858	5.42	227487	8.55	473966	13.04	365437	6.68
Upper Limit	172000	5.92	455000	9.05	948000	13.54	731000	7.18
Lower Limit	42900	4.92	114000	8.05	237000	12.54	183000	6.18
Sample ID	**Response**	**RT**	**Response**	**RT**	**Response**	**RT**	**Response**	**RT**
L735181-08	104392	5.44	365512	8.56	764325	13.03	551936	6.70
LCSD WG756857	137521	5.43	394159	8.56	837826	13.03	609816	6.69
LCS WG756857	146232	5.42	415001	8.55	879585	13.04	637246	6.68
BLANK WG756857	140021	5.44	409162	8.56	860819	13.03	619155	6.69

Legend:

DCB -- 1,4-Dichlorobenzene-d4
ACE -- Acenaphthene-d10
CHR -- Chrysene-d12
NAP -- Naphthalene-d8
PER -- Perylene-d12
PHEN -- Phenanthrene-d10

Parameters in bold text are reported in this SDG

12065 Lebanon Rd
Mt. Juliet, TN 37122
(615) 758-5858
(800) 767-5859
Fax (615) 758-5859
Tax I.D 62-0814289
Est. 1970

YOUR LAB OF CHOICE

Quality Control Summary
SDG: L735181
URS Corporation - Tucson AZ - 1088308

Test:	Semi-Volatiles by Method 8270C		
Project No:	23446543.0057AA	Matrix:	Water - ug/L
Project:	Holloman AFB	EPA ID:	TN00003
Collection Date:	11/20/2014	**Analytic Batch:**	**WG756857**
Analysis Date:	11/26/2014	Analyst:	280
Instrument ID:	BNAMS11	Prep Date:	11/25/2014
Sample Numbers:	L735181-08		

Internal Standard Response and Retention Time Summary

File ID: 1125B_02
Analyzed: 11/26/14 045000

	DCB		PER		PHEN	
	Response	**RT**	**Response**	**RT**	**Response**	**RT**
12 Hr. Std	85858	5.42	550270	14.54	408948	10.17
Upper Limit	172000	5.92	1100000	15.04	818000	10.67
Lower Limit	42900	4.92	275000	14.04	204000	9.67
Sample ID	**Response**	**RT**	**Response**	**RT**	**Response**	**RT**
L735181-08	104392	5.44	882933	14.52	659955	10.17
LCSD WG756857	137521	5.43	961493	14.52	706205	10.17
LCS WG756857	146232	5.42	1017882	14.54	738847	10.17
BLANK WG756857	140021	5.44	1004269	14.52	741735	10.17

Legend:
DCB -- 1,4-Dichlorobenzene-d4
ACE -- Acenaphthene-d10
CHR -- Chrysene-d12
NAP -- Naphthalene-d8
PER -- Perylene-d12
PHEN -- Phenanthrene-d10

Parameters in bold text are reported in this SDG

12065 Lebanon Rd
Mt. Juliet, TN 37122
(615) 758-5858
(800) 767-5859
Fax (615) 758-5859
Tax I.D 62-0814289
Est. 1970

Quality Control Summary
SDG: L735181
URS Corporation - Tucson AZ - 1088308

Test:	Semi-Volatiles by Method 8270C		
Project No:	23446543.0057AA	Matrix:	Water - ug/L
Project:	Holloman AFB	EPA ID:	TN00003
Collection Date:	11/20/2014	**Analytic Batch:**	**WG756405**
Analysis Date:	11/26/2014	Analyst:	377
Instrument ID:	BNAMS19	Prep Date:	11/23/2014
Sample Numbers:	L735181-02, -05, -07		

Surrogate Summary

			TBP		FBP		2FP		NBZ	
Laboratory Sample ID	Instrument	File ID	ppm	% Rec	ppm	% Rec	ppm	% Rec	ppm	% Rec
L735181-02	BNAMS19	1125A_19	0.0141	70.6	0.00768	76.8	0.00828	41.4	0.00711	71.1
L735181-05	BNAMS19	1125A_20	0.0139	69.6	0.00769	76.9	0.00934	46.7	0.00720	72.0
L735181-07	BNAMS19	1125A_21	0.0123	61.4	0.00729	72.9	0.00993	49.7	0.00665	66.5
LCS WG756405	BNAMS19	1125A_04	0.0129	64.4	0.00700	70.0	0.00883	44.1	0.00677	67.7
LCSD WG756405	BNAMS19	1125A_05	0.0138	69.2	0.00725	72.5	0.00877	43.8	0.00668	66.8
BLANK WG756405	BNAMS19	1125A_06	0.0105	52.4	0.00687	68.7	0.00834	41.7	0.00632	63.2

TBP --2,4,6-TRIBROMOPHENOL	True Value: 0.02 ppm	Limits: 11.2 - 130
FBP --2-FLUOROBIPHENYL	True Value: 0.01 ppm	Limits: 29.5 - 131
2FP --2-FLUOROPHENOL	True Value: 0.02 ppm	Limits: 10 - 77.9
NBZ --NITROBENZENE-D5	True Value: 0.01 ppm	Limits: 21.8 - 123
TPH --P-TERPHENYL-D14	True Value: 0.01 ppm	Limits: 29.3 - 137
PHL --PHENOL-D5	True Value: 0.02 ppm	Limits: 5 - 70.1

12065 Lebanon Rd
Mt. Juliet, TN 37122
(615) 758-5858
(800) 767-5859
Fax (615) 758-5859
Tax I.D 62-0814289
Est. 1970

Quality Control Summary
SDG: L735181
URS Corporation - Tucson AZ - 1088308

Test:	Semi-Volatiles by Method 8270C		
Project No:	23446543.0057AA	Matrix:	Water - ug/L
Project:	Holloman AFB	EPA ID:	TN00003
Collection Date:	11/20/2014	**Analytic Batch:**	**WG756405**
Analysis Date:	11/26/2014	Analyst:	377
Instrument ID:	BNAMS19	Prep Date:	11/23/2014
Sample Numbers:	L735181-02, -05, -07		

Surrogate Summary

Laboratory Sample ID	Instrument	File ID	TPH ppm	TPH % Rec	PHL ppm	PHL % Rec
L735181-02	BNAMS19	1125A_19	0.00711	71.1	0.00615	30.7
L735181-05	BNAMS19	1125A_20	0.00676	67.6	0.00718	35.9
L735181-07	BNAMS19	1125A_21	0.00680	68.0	0.00792	39.6
LCS WG756405	BNAMS19	1125A_04	0.00640	64.0	0.00696	34.8
LCSD WG756405	BNAMS19	1125A_05	0.00651	65.1	0.00728	36.4
BLANK WG756405	BNAMS19	1125A_06	0.00610	61.0	0.00668	33.4

TBP --2,4,6-TRIBROMOPHENOL	True Value: 0.02 ppm	Limits: 11.2 - 130
FBP --2-FLUOROBIPHENYL	True Value: 0.01 ppm	Limits: 29.5 - 131
2FP --2-FLUOROPHENOL	True Value: 0.02 ppm	Limits: 10 - 77.9
NBZ --NITROBENZENE-D5	True Value: 0.01 ppm	Limits: 21.8 - 123
TPH --P-TERPHENYL-D14	True Value: 0.01 ppm	Limits: 29.3 - 137
PHL --PHENOL-D5	True Value: 0.02 ppm	Limits: 5 - 70.1

12065 Lebanon Rd
Mt. Juliet, TN 37122
(615) 758-5858
(800) 767-5859
Fax (615) 758-5859
Tax I.D 62-0814289
Est. 1970

Quality Control Summary
SDG: L735181
URS Corporation - Tucson AZ - 1088308

Test:	Semi-Volatiles by Method 8270C		
Project No:	23446543.0057AA	Matrix:	Water - ug/L
Project:	Holloman AFB	EPA ID:	TN00003
Collection Date:	11/20/2014	**Analytic Batch:**	**WG756857**
Analysis Date:	11/26/2014	Analyst:	280
Instrument ID:	BNAMS11	Prep Date:	11/25/2014
Sample Numbers:	L735181-08		

Surrogate Summary

			TBP		FBP		2FP		NBZ	
Laboratory Sample ID	Instrument	File ID	ppm	% Rec	ppm	% Rec	ppm	% Rec	ppm	% Rec
L735181-08	BNAMS11	1125B_11	0.0109	54.5	0.00526	52.6	0.00737	36.9	0.00459	45.9
LCS WG756857	BNAMS11	1125B_05-2	0.0124	61.8	0.00619	61.9	0.00850	42.5	0.00504	50.4
LCSD WG756857	BNAMS11	1125B_06-2	0.0120	59.9	0.00603	60.3	0.00804	40.2	0.00498	49.8
BLANK WG756857	BNAMS11	1125B_07-2	0.0103	51.3	0.00606	60.6	0.00801	40.1	0.00510	51.0

TBP --2,4,6-TRIBROMOPHENOL	True Value: 0.02 ppm	Limits: 11.2 - 130
FBP --2-FLUOROBIPHENYL	True Value: 0.01 ppm	Limits: 29.5 - 131
2FP --2-FLUOROPHENOL	True Value: 0.02 ppm	Limits: 10 - 77.9
NBZ --NITROBENZENE-D5	True Value: 0.01 ppm	Limits: 21.8 - 123
TPH --P-TERPHENYL-D14	True Value: 0.01 ppm	Limits: 29.3 - 137
PHL --PHENOL-D5	True Value: 0.02 ppm	Limits: 5 - 70.1

12065 Lebanon Rd
Mt. Juliet, TN 37122
(615) 758-5858
(800) 767-5859
Fax (615) 758-5859
Tax I.D 62-0814289
Est. 1970

Quality Control Summary
SDG: L735181
URS Corporation - Tucson AZ - 1088308

Test:	Semi-Volatiles by Method 8270C		
Project No:	23446543.0057AA	Matrix:	Water - ug/L
Project:	Holloman AFB	EPA ID:	TN00003
Collection Date:	11/20/2014	**Analytic Batch:**	**WG756857**
Analysis Date:	11/26/2014	Analyst:	280
Instrument ID:	BNAMS11	Prep Date:	11/25/2014
Sample Numbers:	L735181-08		

Surrogate Summary

Laboratory Sample ID	Instrument	File ID	TPH ppm	TPH % Rec	PHL ppm	PHL % Rec
L735181-08	BNAMS11	1125B_11	0.00517	51.7	0.00508	25.4
LCS WG756857	BNAMS11	1125B_05-2	0.00575	57.5	0.00561	28.0
LCSD WG756857	BNAMS11	1125B_06-2	0.00569	56.9	0.00553	27.7
BLANK WG756857	BNAMS11	1125B_07-2	0.00568	56.8	0.00529	26.4

TBP --2,4,6-TRIBROMOPHENOL	True Value: 0.02 ppm	Limits: 11.2 - 130
FBP --2-FLUOROBIPHENYL	True Value: 0.01 ppm	Limits: 29.5 - 131
2FP --2-FLUOROPHENOL	True Value: 0.02 ppm	Limits: 10 - 77.9
NBZ --NITROBENZENE-D5	True Value: 0.01 ppm	Limits: 21.8 - 123
TPH --P-TERPHENYL-D14	True Value: 0.01 ppm	Limits: 29.3 - 137
PHL --PHENOL-D5	True Value: 0.02 ppm	Limits: 5 - 70.1

12065 Lebanon Rd
Mt. Juliet, TN 37122
(615) 758-5858
(800) 767-5859
Fax (615) 758-5859
Tax I.D 62-0814289
Est. 1970

Quality Control Summary
SDG: L735181
URS Corporation - Tucson AZ - 1088308

Test:	Semi-Volatiles by Method 8270C		
Project No:	23446543.0057AA	Matrix:	Water - mg/L
Project:	Holloman AFB	EPA ID:	TN00003
Collection Date:	11/20/2014	**Analytic Batch:**	**WG756405**
Analysis Date:	11/26/2014	Analyst:	377
Instrument ID:	BNAMS19	Prep Date:	11/23/2014
Sample Numbers:	L735181-02, -05, -07		

Instrument Performance Summary

FileID:1125A_01.D Date:11/26/2014 Time: 6:01 AM

m/e	Ion Abundance Criteria	% Relative Abundance
51	30 - 60% of mass 198	46.1
68	Less than 2% of mass 69	1.5
69	Less than 100% of mass 198	45.6
70	Less than 2% of mass 69	0.4
127	40 - 60% of mass 198	53.7
197	Less than 1% of mass 198	0.4
198	Base Peak, 100% relative abundance	100.0
199	5 - 9% of mass 198	6.7
275	10 - 30% of mass 198	23.0
365	1 - 100% of mass 198	3.1
441	Present, but less than mass 443	79.0
442	40 - 100% of mass 198	72.8
443	17 - 23% of mass 442	19.3

This Check applies to the following samples and quality control samples

Client Sample ID	Laboratory Sample ID	Lab Filename	Date Analyzed	Time Analyzed
LCS WG756405	LCS WG756405	1125A_04.D	11/26/2014	7:15 AM
LCSD WG756405	LCSD WG756405	1125A_05.D	11/26/2014	7:39 AM
Blank WG756405	Blank WG756405	1125A_06.D	11/26/2014	8:03 AM
H-TU508-MW06-NT01	L735181-02	1125A_19.D	11/26/2014	1:13 PM
H-TU508-MW05-NT01	L735181-05	1125A_20.D	11/26/2014	1:37 PM
H-TU508-MW04-NT01	L735181-07	1125A_21.D	11/26/2014	2:01 PM

12065 Lebanon Rd
Mt. Juliet, TN 37122
(615) 758-5858
(800) 767-5859
Fax (615) 758-5859
Tax I.D 62-0814289
Est. 1970

Quality Control Summary
SDG: L735181
URS Corporation - Tucson AZ - 1088308

Test:	Semi-Volatiles by Method 8270C		
Project No:	23446543.0057AA	Matrix:	Water - mg/L
Project:	Holloman AFB	EPA ID:	TN00003
Collection Date:	11/20/2014	**Analytic Batch:**	**WG756857**
Analysis Date:	11/26/2014	Analyst:	280
Instrument ID:	BNAMS11	Prep Date:	11/25/2014
Sample Numbers:	L735181-08		

Instrument Performance Summary

FileID:1125B_01.D Date:11/26/2014 Time: 4:14 AM

m/e	Ion Abundance Criteria	% Relative Abundance
51	30 - 60% of mass 198	38.8
68	Less than 2% of mass 69	1.4
69	Less than 100% of mass 198	36.6
70	Less than 2% of mass 69	0.5
127	40 - 60% of mass 198	49.8
197	Less than 1% of mass 198	0.7
198	Base Peak, 100% relative abundance	100.0
199	5 - 9% of mass 198	6.8
275	10 - 30% of mass 198	26.3
365	1 - 100% of mass 198	3.9
441	Present, but less than mass 443	71.9
442	40 - 100% of mass 198	82.3
443	17 - 23% of mass 442	20.6

This Check applies to the following samples and quality control samples

Client Sample ID	Laboratory Sample ID	Lab Filename	Date Analyzed	Time Analyzed
LCS WG756857	LCS WG756857	1125B_05.D	11/26/2014	6:14 AM
LCSD WG756857	LCSD WG756857	1125B_06.D	11/26/2014	6:35 AM
Blank WG756857	Blank WG756857	1125B_07.D	11/26/2014	6:57 AM
H-TU508-MW07-NT01	L735181-08	1125B_11.D	11/26/2014	8:21 AM

12065 Lebanon Rd
Mt. Juliet, TN 37122
(615) 758-5858
(800) 767-5859
Fax (615) 758-5859
Tax I.D 62-0814289
Est. 1970

Quality Control Summary
SDG: L735181
URS Corporation - Tucson AZ - 1088308

Test: Semi-Volatiles by Method 8270C
Project: Holloman AFB
Instrument ID: BNAMS11
Method Name : S811K12AN.M

Relative Response Factor Summary

Compound Name	Level 200	Level 1K	Level 2K	Level 5K	Level 10K	Level 20K	Level 30K	Level 40K	Level 50K	Average RRF	%RSD
Pyridine	2.306	2.280	2.249	2.179	2.126	2.175	2.181	2.104	2.126	2.191770	3.26
N-Nitrosodimethylamine	1.400	1.322	1.257	1.285	1.178	1.295	1.261	1.215	1.240	1.272504	5.05
2-Fluorophenol	1.517	1.465	1.431	1.393	1.396	1.420	1.425	1.364	1.391	1.422413	3.22
Aniline	1.104	1.107	1.059	1.055	0.982	1.033	1.017	0.957	0.970	1.031546	5.35
bis(2-Chloroethyl)ether	1.521	1.479	1.421	1.394	1.314	1.365	1.321	1.239	1.237	1.365588	7.23
Phenol-d5	2.044	2.008	2.010	1.936	1.920	1.946	1.941	1.852	1.868	1.947317	3.31
Phenol	2.200	2.084	2.075	2.005	1.942	1.952	1.968	1.839	1.826	1.987559	6.01
Benzaldehyde										0.770934	4.17
2-Chlorophenol	1.663	1.627	1.578	1.567	1.527	1.523	1.507	1.430	1.402	1.535728	5.52
n-Decane	1.412	1.364	1.333	1.271	1.124	1.200	1.150	1.045	1.014	1.212632	11.64
1,3-Dichlorobenzene	1.877	1.832	1.725	1.696	1.655	1.635	1.621	1.549	1.552	1.682589	6.77
1,4-Dichlorobenzene	1.968	1.853	1.772	1.691	1.655	1.631	1.627	1.560	1.563	1.702318	8.07
Benzyl Alcohol	1.601	1.557	1.534	1.517	1.431	1.495	1.475	1.441	1.422	1.497071	4.07
1,2-Dichlorobenzene	1.788	1.800	1.679	1.634	1.577	1.586	1.555	1.508	1.488	1.624039	6.93
bis(2-Chloroisopropyl)ether	0.571	0.545	0.527	0.514	0.491	0.489	0.486	0.468	0.472	0.506844	6.90
2-Methylphenol	1.571	1.575	1.511	1.457	1.391	1.406	1.402	1.336	1.350	1.444454	6.22
Hexachloroethane	0.804	0.762	0.751	0.725	0.703	0.724	0.715	0.687	0.690	0.729103	5.16
N-Nitrosodi-n-propylamine	1.498	1.451	1.403	1.365	1.249	1.331	1.311	1.267	1.261	1.348406	6.52
3&4-Methyl phenol	1.711	1.759	1.718	1.682	1.611	1.639	1.639	1.599	1.596	1.661536	3.52
Acetophenone										2.227488	4.87
Nitrobenzene-d5	0.460	0.432	0.431	0.432	0.437	0.433	0.424	0.413	0.414	0.430599	3.21
Nitrobenzene	0.489	0.462	0.453	0.443	0.440	0.432	0.422	0.407	0.402	0.438851	6.19
Isophorone	0.844	0.785	0.781	0.767	0.762	0.737	0.730	0.704	0.693	0.755814	6.12
2-Nitrophenol	0.158	0.161	0.166	0.171	0.191	0.181	0.187	0.185	0.186	0.176322	6.99
2,4-Dimethylphenol	0.413	0.412	0.401	0.393	0.384	0.363	0.356	0.344	0.337	0.377973	7.66
bis(2-Chlorethoxy)methane	0.535	0.516	0.488	0.475	0.475	0.455	0.446	0.431	0.425	0.471885	7.88
2,4-Dichlorophenol	0.313	0.299	0.293	0.288	0.294	0.281	0.280	0.281	0.277	0.289661	4.01
Benzoic Acid										0.190341	44.04

12065 Lebanon Rd
Mt. Juliet, TN 37122
(615) 758-5858
(800) 767-5859
Fax (615) 758-5859
Tax I.D 62-0814289
Est. 1970

Quality Control Summary
SDG: L735181
URS Corporation - Tucson AZ - 1088308

Test: Semi-Volatiles by Method 8270C
Project: Holloman AFB
Instrument ID: BNAMS11
Method Name : S811K12AN.M

Relative Response Factor Summary

Compound Name	Level 200	Level 1K	Level 2K	Level 5K	Level 10K	Level 20K	Level 30K	Level 40K	Level 50K	Average RRF	%RSD
1,2,4-Trichlorobenzene	0.376	0.347	0.335	0.326	0.328	0.307	0.306	0.300	0.297	0.324706	7.88
Naphthalene	1.575	1.276	1.200	1.133	1.130	1.079	1.061	1.017	1.004	1.163959	15.19
4-Chloroaniline	0.191	0.180	0.177	0.165	0.161	0.163	0.161	0.156	0.156	0.167872	7.22
Hexachloro-1,3-butadiene	0.206	0.209	0.184	0.187	0.186	0.176	0.176	0.173	0.168	0.185118	7.63
Caprolactam										0.104482	6.66
4-Chloro-3-methylphenol	0.356	0.350	0.345	0.345	0.356	0.343	0.340	0.332	0.329	0.344089	2.71
2-Methylnaphthalene	0.900	0.838	0.819	0.792	0.780	0.744	0.727	0.706	0.689	0.777265	8.79
1-Methylnaphthalene	0.808	0.787	0.764	0.729	0.736	0.683	0.673	0.650	0.639	0.718742	8.44
1,2,4,5-Tetrachlorobenzene										0.318047	2.79
Hexachlorocyclopentadiene	0.320	0.323	0.311	0.325	0.337	0.330	0.332	0.343	0.335	0.328452	2.92
2,4,6-Trichlorophenol	0.312	0.321	0.327	0.333	0.342	0.338	0.333	0.340	0.330	0.330986	2.90
2,4,5-Trichlorophenol	0.359	0.369	0.364	0.374	0.377	0.361	0.360	0.350	0.343	0.361817	2.93
2-Fluorobiphenyl	1.471	1.457	1.360	1.350	1.303	1.242	1.209	1.169	1.149	1.300981	9.08
Biphenyl	1.662	1.661	1.575	1.538	1.491	1.427	1.377	1.347	1.293	1.485739	9.04
2-Chloronaphthalene	1.337	1.287	1.205	1.191	1.161	1.099	1.071	1.043	1.013	1.156290	9.54
2-Nitroaniline	0.322	0.331	0.347	0.370	0.386	0.385	0.392	0.395	0.393	0.369120	7.69
Acenaphthylene	1.967	1.986	1.876	1.861	1.813	1.736	1.697	1.638	1.588	1.795694	7.83
Dimethyl phthalate	1.410	1.349	1.258	1.243	1.212	1.233	1.225	1.217	1.189	1.259597	5.74
2,6-Dinitrotoluene	0.252	0.261	0.269	0.284	0.289	0.290	0.293	0.295	0.291	0.280435	5.60
3-Nitroaniline	0.303	0.329	0.323	0.335	0.347	0.349	0.348	0.344	0.341	0.335185	4.48
Acenaphthene	1.377	1.351	1.279	1.243	1.189	1.146	1.107	1.068	1.038	1.199784	10.09
2,4-Dinitrophenol			0.078	0.098	0.124	0.139	0.151	0.159	0.160	0.129984	24.44
Dibenzofuran	1.865	1.829	1.739	1.660	1.590	1.517	1.500	1.460	1.441	1.622564	9.82
2,4-Dinitrotoluene	0.278	0.322	0.331	0.357	0.392	0.401	0.407	0.409	0.403	0.366648	12.86
2,3,4,6-Tetrachlorophenol										0.249637	6.96
4-Nitrophenol	0.187	0.218	0.229	0.256	0.277	0.278	0.286	0.285	0.285	0.255623	14.12
Fluorene	1.515	1.528	1.454	1.400	1.322	1.277	1.267	1.219	1.189	1.352334	9.37
4-Chlorophenyl-phenylether	0.669	0.695	0.663	0.636	0.613	0.598	0.605	0.600	0.593	0.630241	5.91
Diethyl phthalate	1.463	1.421	1.352	1.369	1.385	1.363	1.330	1.307	1.257	1.360823	4.47

12065 Lebanon Rd
Mt. Juliet, TN 37122
(615) 758-5858
(800) 767-5859
Fax (615) 758-5859
Tax I.D 62-0814289
Est. 1970

Quality Control Summary
SDG: L735181
URS Corporation - Tucson AZ - 1088308

Test: Semi-Volatiles by Method 8270C
Project: Holloman AFB
Instrument ID: BNAMS11
Method Name : S811K12AN.M

Relative Response Factor Summary

Compound Name	Level 200	Level 1K	Level 2K	Level 5K	Level 10K	Level 20K	Level 30K	Level 40K	Level 50K	Average RRF	%RSD
4-Nitroaniline	0.293	0.327	0.330	0.305	0.302	0.310	0.313	0.323	0.321	0.313738	3.98
Azobenzene	1.698	1.739	1.671	1.647	1.614	1.629	1.638	1.585	1.577	1.644249	3.17
Atrazine										0.355527	5.69
4,6-Dinitro-2-methylphenol	0.054	0.062	0.071	0.087	0.107	0.108	0.115	0.121	0.123	0.094259	27.96
N-Nitrosodiphenylamine	0.715	0.686	0.670	0.636	0.630	0.611	0.602	0.586	0.582	0.635308	7.28
2,4,6-Tribromophenol	0.114	0.112	0.110	0.112	0.117	0.119	0.125	0.127	0.130	0.118285	6.02
4-Bromophenyl-phenylether	0.248	0.235	0.224	0.224	0.222	0.214	0.215	0.216	0.217	0.223838	5.00
Hexachlorobenzene	0.297	0.282	0.267	0.266	0.261	0.255	0.259	0.256	0.258	0.266837	5.28
n-octadecane	0.178	0.157	0.158	0.169	0.164	0.162	0.156	0.146	0.145	0.159460	6.55
Pentachlorophenol	0.127	0.123	0.128	0.140	0.150	0.151	0.158	0.162	0.164	0.144763	10.97
Phenanthrene	1.362	1.279	1.239	1.195	1.161	1.070	1.041	1.005	0.980	1.147834	11.51
Anthracene	1.298	1.301	1.249	1.233	1.190	1.111	1.054	1.018	0.999	1.161150	10.23
Carbazole	1.303	1.253	1.214	1.189	1.135	1.025	1.005	0.973	0.960	1.117561	11.60
Di-n-butyl phthalate	1.619	1.617	1.553	1.592	1.547	1.442	1.401	1.301	1.265	1.481946	9.13
2-nitrodiphenylamine										0.289030	13.14
Fluoranthene	1.589	1.558	1.497	1.491	1.421	1.320	1.273	1.205	1.153	1.389596	11.36
Benzidine										0.513472	29.15
Pyrene	1.273	1.288	1.247	1.235	1.213	1.151	1.126	1.074	1.053	1.184438	7.29
p-Terphenyl-d14	0.988	1.000	0.979	0.981	0.960	0.915	0.898	0.856	0.849	0.936152	6.22
Benzylbutyl phthalate	0.599	0.580	0.581	0.603	0.631	0.631	0.623	0.603	0.593	0.605107	3.23
3,3-Dichlorobenzidine										0.463256	6.28
Benzo(a)anthracene	1.478	1.376	1.355	1.306	1.275	1.201	1.170	1.114	1.090	1.262697	10.25
Chrysene	1.311	1.280	1.236	1.199	1.168	1.089	1.047	0.998	0.963	1.143407	10.94
bis(2-Ethylhexyl)phthalate	1.059	0.896	0.874	0.907	0.945	0.914	0.891	0.844	0.819	0.905355	7.58
Di-n-octyl phthalate	1.597	1.558	1.538	1.581	1.667	1.593	1.530	1.425	1.385	1.541494	5.69
Benzo(b)fluoranthene	1.265	1.242	1.301	1.227	1.167	1.124	1.046	1.048	1.028	1.160948	8.96
Benzo(k)fluoranthene	1.202	1.185	1.114	1.148	1.138	0.992	0.978	0.842	0.781	1.042096	14.63
Benzo(a)pyrene	1.161	1.160	1.151	1.158	1.151	1.071	1.021	0.972	0.951	1.088356	7.98
Indeno(1,2,3-cd)pyrene	1.432	1.460	1.425	1.447	1.401	1.291	1.246	1.169	1.139	1.334522	9.40

12065 Lebanon Rd
Mt. Juliet, TN 37122
(615) 758-5858
(800) 767-5859
Fax (615) 758-5859
Tax I.D 62-0814289
Est. 1970

Quality Control Summary
SDG: L735181
URS Corporation - Tucson AZ - 1088308

Test: Semi-Volatiles by Method 8270C
Project: Holloman AFB
Instrument ID: BNAMS11
Method Name : S811K12AN.M

Relative Response Factor Summary

Compound Name	Level 200	Level 1K	Level 2K	Level 5K	Level 10K	Level 20K	Level 30K	Level 40K	Level 50K	Average RRF	%RSD
Dibenz(a,h)anthracene	1.164	1.199	1.211	1.210	1.190	1.079	1.035	0.965	0.946	1.111043	9.64
Benzo(g,h,i)perylene	1.204	1.193	1.189	1.205	1.175	1.132	1.095	1.009	0.970	1.130195	7.80

12065 Lebanon Rd
Mt. Juliet, TN 37122
(615) 758-5858
(800) 767-5859
Fax (615) 758-5859
Tax I.D 62-0814289
Est. 1970

Quality Control Summary
SDG: L735181
URS Corporation - Tucson AZ - 1088308

Test: Semi-Volatiles by Method 8270C
Project: Holloman AFB
Instrument ID: BNAMS19
Method Name : S819K21N.M

Relative Response Factor Summary

Compound Name	Level 200	Level 1K	Level 2K	Level 5K	Level 10K	Level 20K	Level 30K	Level 40K	Level 50K	Average RRF	%RSD
Pyridine		1.777	1.563	1.558	1.573	1.612	1.619	1.614	1.634	1.618676	4.32
N-Nitrosodimethylamine		0.772	0.728	0.738	0.785	0.811	0.831	0.832	0.844	0.792599	5.56
2-Fluorophenol	1.134	1.282	1.114	1.137	1.162	1.191	1.197	1.193	1.207	1.179640	4.26
Aniline	0.664	0.816	0.721	0.718	0.739	0.746	0.757	0.750	0.759	0.741102	5.48
bis(2-Chloroethyl)ether	1.005	1.178	1.057	1.061	1.070	1.074	1.072	1.057	1.066	1.071021	4.21
Phenol-d5	1.389	1.681	1.477	1.513	1.521	1.558	1.575	1.560	1.575	1.538647	5.19
Phenol	1.458	1.727	1.539	1.558	1.571	1.594	1.604	1.581	1.599	1.581161	4.46
Benzaldehyde										0.724310	7.80
2-Chlorophenol	1.231	1.465	1.333	1.356	1.401	1.397	1.427	1.418	1.420	1.383048	4.98
n-Decane	0.300	0.342	0.305	0.312	0.301	0.301	0.294	0.291	0.290	0.303936	5.19
1,3-Dichlorobenzene	1.496	1.697	1.527	1.516	1.528	1.545	1.543	1.542	1.552	1.549418	3.75
1,4-Dichlorobenzene	1.528	1.740	1.556	1.551	1.542	1.577	1.575	1.561	1.568	1.577497	3.99
Benzyl Alcohol	0.955	1.172	1.059	1.072	1.088	1.128	1.134	1.127	1.138	1.096944	5.84
1,2-Dichlorobenzene	1.417	1.710	1.492	1.491	1.488	1.524	1.521	1.502	1.504	1.516621	5.20
bis(2-Chloroisopropyl)ether	0.452	0.503	0.447	0.454	0.451	0.457	0.457	0.449	0.455	0.458227	3.78
2-Methylphenol	1.080	1.347	1.230	1.224	1.243	1.252	1.262	1.249	1.261	1.238617	5.60
Hexachloroethane	0.658	0.734	0.654	0.666	0.667	0.682	0.682	0.679	0.686	0.678563	3.48
N-Nitrosodi-n-propylamine	0.755	0.911	0.811	0.831	0.847	0.869	0.881	0.878	0.881	0.851484	5.53
3&4-Methyl phenol	1.217	1.467	1.316	1.334	1.366	1.382	1.423	1.402	1.402	1.367587	5.30
Acetophenone										1.988969	1.51
Nitrobenzene-d5	0.280	0.342	0.305	0.305	0.320	0.329	0.331	0.340	0.336	0.320781	6.40
Nitrobenzene	0.309	0.355	0.313	0.315	0.322	0.331	0.334	0.337	0.335	0.327916	4.40
Isophorone	0.500	0.611	0.549	0.553	0.570	0.581	0.590	0.591	0.589	0.570458	5.76
2-Nitrophenol		0.157	0.147	0.152	0.161	0.175	0.180	0.183	0.184	0.167324	8.78
2,4-Dimethylphenol	0.286	0.327	0.297	0.299	0.309	0.310	0.310	0.313	0.311	0.306770	3.83
bis(2-Chlorethoxy)methane	0.369	0.435	0.386	0.375	0.387	0.390	0.395	0.398	0.393	0.391876	4.77
2,4-Dichlorophenol	0.226	0.265	0.247	0.250	0.257	0.268	0.271	0.273	0.272	0.258720	6.08
Benzoic Acid										0.166570	38.16

12065 Lebanon Rd
Mt. Juliet, TN 37122
(615) 758-5858
(800) 767-5859
Fax (615) 758-5859
Tax I.D 62-0814289
Est. 1970

Quality Control Summary
SDG: L735181
URS Corporation - Tucson AZ - 1088308

Test: Semi-Volatiles by Method 8270C
Project: Holloman AFB
Instrument ID: BNAMS19
Method Name : S819K21N.M

Relative Response Factor Summary

Compound Name	Level 200	Level 1K	Level 2K	Level 5K	Level 10K	Level 20K	Level 30K	Level 40K	Level 50K	Average RRF	%RSD
1,2,4-Trichlorobenzene	0.276	0.325	0.292	0.287	0.288	0.298	0.297	0.299	0.292	0.294926	4.50
Naphthalene	1.193	1.159	1.016	0.966	0.990	0.989	0.990	0.993	0.972	1.029878	8.20
4-Chloroaniline	0.115	0.130	0.121	0.117	0.119	0.122	0.123	0.125	0.124	0.121828	3.74
Hexachloro-1,3-butadiene	0.154	0.182	0.160	0.155	0.160	0.160	0.162	0.164	0.161	0.161981	4.98
Caprolactam										0.098681	4.25
4-Chloro-3-methylphenol	0.238	0.283	0.256	0.257	0.269	0.283	0.290	0.294	0.291	0.273490	7.07
2-Methylnaphthalene	0.658	0.752	0.683	0.667	0.681	0.700	0.697	0.698	0.687	0.691426	3.88
1-Methylnaphthalene	0.610	0.719	0.639	0.623	0.641	0.658	0.654	0.655	0.649	0.649586	4.69
1,2,4,5-Tetrachlorobenzene										0.325633	2.53
Hexachlorocyclopentadiene	0.246	0.290	0.252	0.248	0.266	0.284	0.284	0.286	0.291	0.272075	6.91
2,4,6-Trichlorophenol	0.242	0.289	0.260	0.267	0.283	0.299	0.306	0.309	0.314	0.285356	8.66
2,4,5-Trichlorophenol	0.250	0.319	0.296	0.292	0.313	0.330	0.329	0.332	0.334	0.310509	8.84
2-Fluorobiphenyl	1.087	1.296	1.127	1.086	1.130	1.138	1.135	1.113	1.111	1.135805	5.54
Biphenyl	1.264	1.470	1.299	1.245	1.291	1.299	1.283	1.276	1.268	1.299610	5.10
2-Chloronaphthalene	0.938	1.148	0.997	0.970	0.995	1.010	1.007	0.986	0.998	1.005600	5.75
2-Nitroaniline		0.313	0.296	0.307	0.336	0.368	0.370	0.373	0.381	0.342898	9.97
Acenaphthylene	1.386	1.766	1.546	1.550	1.592	1.635	1.620	1.589	1.593	1.586511	6.25
Dimethyl phthalate	1.022	1.300	1.145	1.112	1.145	1.156	1.138	1.135	1.141	1.143906	6.23
2,6-Dinitrotoluene		0.268	0.250	0.251	0.265	0.282	0.281	0.280	0.285	0.270269	5.21
3-Nitroaniline		0.306	0.280	0.289	0.311	0.324	0.323	0.319	0.324	0.309440	5.48
Acenaphthene	1.089	1.235	1.098	1.053	1.083	1.092	1.089	1.071	1.067	1.097395	4.87
2,4-Dinitrophenol			0.075	0.094	0.113	0.137	0.145	0.152	0.158	0.124732	25.23
Dibenzofuran	1.331	1.656	1.434	1.390	1.443	1.459	1.425	1.431	1.432	1.444616	6.08
2,4-Dinitrotoluene		0.321	0.294	0.323	0.345	0.369	0.374	0.373	0.381	0.347354	9.24
2,3,4,6-Tetrachlorophenol										0.220999	6.39
4-Nitrophenol		0.219	0.204	0.221	0.242	0.249	0.251	0.257	0.262	0.238185	8.80
Fluorene	1.127	1.372	1.221	1.182	1.219	1.240	1.209	1.204	1.197	1.218985	5.39
4-Chlorophenyl-phenylether	0.490	0.615	0.546	0.531	0.550	0.553	0.551	0.544	0.548	0.547655	5.83
Diethyl phthalate	1.168	1.382	1.218	1.178	1.222	1.227	1.194	1.186	1.186	1.217877	5.34

12065 Lebanon Rd
Mt. Juliet, TN 37122
(615) 758-5858
(800) 767-5859
Fax (615) 758-5859
Tax I.D 62-0814289
Est. 1970

Quality Control Summary
SDG: L735181
URS Corporation - Tucson AZ - 1088308

Test: Semi-Volatiles by Method 8270C
Project: Holloman AFB
Instrument ID: BNAMS19
Method Name : S819K21N.M

Relative Response Factor Summary

Compound Name	Level 200	Level 1K	Level 2K	Level 5K	Level 10K	Level 20K	Level 30K	Level 40K	Level 50K	Average RRF	%RSD
4-Nitroaniline		0.319	0.286	0.306	0.306	0.270	0.251	0.252	0.258	0.281092	9.58
Azobenzene	1.072	1.405	1.255	1.234	1.271	1.309	1.282	1.260	1.275	1.262660	6.86
Atrazine										0.345910	6.79
4,6-Dinitro-2-methylphenol			0.069	0.083	0.096	0.108	0.115	0.118	0.122	0.101511	19.63
N-Nitrosodiphenylamine	0.519	0.635	0.573	0.558	0.584	0.594	0.591	0.586	0.576	0.579531	5.35
2,4,6-Tribromophenol		0.086	0.075	0.080	0.088	0.094	0.098	0.098	0.099	0.089579	9.91
4-Bromophenyl-phenylether	0.175	0.197	0.174	0.173	0.179	0.188	0.189	0.187	0.188	0.183337	4.59
Hexachlorobenzene	0.214	0.222	0.205	0.197	0.200	0.205	0.208	0.205	0.205	0.206650	3.65
n-octadecane	0.129	0.144	0.124	0.126	0.132	0.132	0.132	0.130	0.129	0.130828	4.42
Pentachlorophenol	0.066	0.093	0.085	0.094	0.103	0.115				0.092852	17.71
Phenanthrene	1.038	1.188	1.043	0.998	1.036	1.039	1.035	1.013	1.009	1.044363	5.38
Anthracene	0.978	1.143	1.035	1.009	1.049	1.081	1.063	1.045	1.034	1.048498	4.42
Carbazole	0.861	1.068	0.974	0.948	0.986	0.972	0.926	0.881	0.826	0.937837	7.88
Di-n-butyl phthalate	1.058	1.312	1.191	1.194	1.285	1.308	1.302	1.261	1.243	1.239372	6.63
2-nitrodiphenylamine										0.260510	18.66
Fluoranthene	0.986	1.187	1.085	1.056	1.144	1.149	1.133	1.102	1.103	1.104990	5.34
Benzidine										0.631867	26.36
Pyrene	1.051	1.272	1.149	1.144	1.159	1.168	1.174	1.131	1.132	1.153242	4.98
p-Terphenyl-d14	0.741	0.918	0.814	0.798	0.799	0.822	0.821	0.805	0.797	0.812710	5.67
Benzylbutyl phthalate	0.475	0.586	0.534	0.543	0.572	0.606	0.613	0.608	0.621	0.573032	8.38
3,3-Dichlorobenzidine										0.460541	6.22
Benzo(a)anthracene	1.094	1.227	1.092	1.087	1.097	1.123	1.131	1.100	1.090	1.115586	3.97
Chrysene	0.976	1.156	1.037	1.001	1.011	1.054	1.042	1.009	0.988	1.030549	5.21
bis(2-Ethylhexyl)phthalate	1.010	0.933	0.824	0.823	0.857	0.895	0.910	0.893	0.900	0.893815	6.45
Di-n-octyl phthalate	0.999	1.402	1.332	1.377	1.458	1.515	1.533	1.474	1.484	1.396959	11.67
Benzo(b)fluoranthene	0.889	1.159	1.026	1.017	1.017	1.132	1.087	1.114	1.088	1.058676	7.72
Benzo(k)fluoranthene	0.906	1.062	0.967	0.965	1.041	1.027	1.076	1.025	1.040	1.012071	5.43
Benzo(a)pyrene	0.820	1.037	0.922	0.937	0.990	1.028	1.027	1.012	1.012	0.976114	7.29
Indeno(1,2,3-cd)pyrene	0.860	1.140	1.031	1.032	1.077	1.109	1.095	1.089	1.091	1.058202	7.74

12065 Lebanon Rd
Mt. Juliet, TN 37122
(615) 758-5858
(800) 767-5859
Fax (615) 758-5859
Tax I.D 62-0814289
Est. 1970

Quality Control Summary
SDG: L735181
URS Corporation - Tucson AZ - 1088308

Test: Semi-Volatiles by Method 8270C
Project: Holloman AFB
Instrument ID: BNAMS19
Method Name : S819K21N.M

Relative Response Factor Summary

Compound Name	Level 200	Level 1K	Level 2K	Level 5K	Level 10K	Level 20K	Level 30K	Level 40K	Level 50K	Average RRF	%RSD
Dibenz(a,h)anthracene	0.735	0.978	0.870	0.878	0.914	0.944	0.936	0.930	0.926	0.901050	7.82
Benzo(g,h,i)perylene	0.768	0.979	0.877	0.865	0.901	0.922	0.902	0.888	0.874	0.886095	6.33

12065 Lebanon Rd
Mt. Juliet, TN 37122
(615) 758-5858
(800) 767-5859
Fax (615) 758-5859
Tax I.D 62-0814289
Est. 1970

Quality Control Summary
SDG: L735181
URS Corporation - Tucson AZ - 1088308

Test: Semi-Volatiles by Method 8270C
Project No: 23446543.0057AA
Project: Holloman AFB EPA ID: TN00003
Collection Date: 11/20/2014
Instrument ID: BNAMS19

Method Name : S819K21N.M Date : 11/26/2014
FileName : 1125A_02.D Time : 6:26 AM

Continuing Calibration Verification

Compound Name	Average RRF	CCC RRF	%D		
n-Nitrosodimethylamine	0.7926	0.8073	1.85		
Bis(2-chloroethyl)ether	1.0710	1.0945	2.19		
Phenol	1.5812	1.5851	0.25		
2-Chlorophenol	1.3830	1.3759	0.52		
1,4-Dichlorobenzene	1.5775	1.5412	2.3		
Benzyl Alcohol	1.0969	1.0628	3.11		
Bis(2-chloroisopropyl)ether	0.4582	0.4471	2.42		
2-Methylphenol	1.2386	1.2363	0.18		
Hexachloroethane	0.6786	0.6671	1.69		
n-Nitrosodi-n-propylamine	0.8515	0.8698	2.15	>0.05	
3&4-Methyl Phenol	1.3676	0.6795	50.3		
Nitrobenzene	0.3279	0.3333	1.64		
Isophorone	0.5705	0.5612	1.62		
2-Nitrophenol	0.1673	0.1610	3.75		
2,4-Dimethylphenol	0.3068	0.3070	0.07		
Bis(2-chlorethoxy)methane	0.3919	0.3934	0.39		
2,4-Dichlorophenol	0.2587	0.2555	1.26		
1,2,4-Trichlorobenzene	0.2949	0.2868	2.76		
4-Chloroaniline	0.1218	0.1196	1.87		
Hexachloro-1,3-butadiene	0.1620	0.1550	4.28		
4-Chloro-3-methylphenol	0.2735	0.2718	0.62		
Hexachlorocyclopentadiene	0.2721	0.2380	12.5	>0.05	
2,4,6-Trichlorophenol	0.2854	0.2829	0.86		
2,4,5-Trichlorophenol	0.3105	0.3051	1.74		
2-Chloronaphthalene	1.0056	0.9855	2		
2-Nitroaniline	0.3429	0.3266	4.76		
Dimethyl phthalate	1.1439	1.1257	1.59		
2,6-Dinitrotoluene	0.2703	0.2691	0.43		
3-Nitroaniline	0.3094	0.2961	4.32		
Acenaphthene	1.0974	1.0745	2.08		
2,4-Dinitrophenol	0.1247	0.0931	25.4	>0.05	**

*** - calibrated by linear regression*

12065 Lebanon Rd
Mt. Juliet, TN 37122
(615) 758-5858
(800) 767-5859
Fax (615) 758-5859
Tax I.D 62-0814289
Est. 1970

Quality Control Summary
SDG: L735181
URS Corporation - Tucson AZ - 1088308

Test: Semi-Volatiles by Method 8270C
Project No: 23446543.0057AA
Project: Holloman AFB EPA ID: TN00003
Collection Date: 11/20/2014
Instrument ID: BNAMS19

Method Name : S819K21N.M Date : 11/26/2014
FileName : 1125A_02.D Time : 6:26 AM

Continuing Calibration Verification

Compound Name	Average RRF	CCC RRF	%D		
Dibenzofuran	1.4446	1.4262	1.27		
2,4-Dinitrotoluene	0.3474	0.3429	1.28		
4-Nitrophenol	0.2382	0.2225	6.57	>0.05	
4-Chlorophenyl-phenylether	0.5477	0.5331	2.66		
Diethyl phthalate	1.2179	1.1969	1.72		
4-Nitroaniline	0.2811	0.2907	3.42		
1,2-Diphenylhydrazine	1.2627	1.2656	0.23		
4,6-Dinitro-2-methylphenol	0.1015	0.0911	10.3		**
n-Nitrosodiphenylamine	0.5795	0.5798	0.04		
4-Bromophenyl-phenylether	0.1833	0.1779	2.95		
Hexachlorobenzene	0.2067	0.2018	2.34		
Pentachlorophenol	0.0929	0.1030	10.9		**
Carbazole	0.9378	0.9573	2.08		
Di-n-butyl phthalate	1.2394	1.2471	0.63		
Fluoranthene	1.1050	1.1015	0.32		
Benzylbutyl phthalate	0.5730	0.5653	1.35		
Bis(2-ethylhexyl)phthalate	0.8938	0.8504	4.85		
Di-n-octyl phthalate	1.3970	1.4034	0.46		
Benzo(a)pyrene	0.9761	0.9837	0.78		

*** - calibrated by linear regression*

12065 Lebanon Rd
Mt. Juliet, TN 37122
(615) 758-5858
(800) 767-5859
Fax (615) 758-5859
Tax I.D 62-0814289
Est. 1970

Quality Control Summary
SDG: L735181
URS Corporation - Tucson AZ - 1088308

Test: Semi-Volatiles by Method 8270C
Project No: 23446543.0057AA
Project: Holloman AFB EPA ID: TN00003
Collection Date: 11/20/2014
Instrument ID: BNAMS19

Method Name : S819K21N.M Date : 11/26/2014
FileName : 1125A_03.D Time : 6:49 AM

Continuing Calibration Verification

Compound Name	Average RRF	CCC RRF	%D	
Benzoic acid	0.1666	0.1121	32.7	**

*** - calibrated by linear regression*

12065 Lebanon Rd
Mt. Juliet, TN 37122
(615) 758-5858
(800) 767-5859
Fax (615) 758-5859
Tax I.D 62-0814289
Est. 1970

Quality Control Summary
SDG: L735181
URS Corporation - Tucson AZ - 1088308

Test: Semi-Volatiles by Method 8270C
Project No: 23446543.0057AA
Project: Holloman AFB EPA ID: TN00003
Collection Date: 11/20/2014
Instrument ID: BNAMS11

Method Name : S811K12AN.M Date : 11/26/2014
FileName : 1125B_02.D Time : 4:50 AM

Continuing Calibration Verification

Compound Name	Average RRF	CCC RRF	%D		
n-Nitrosodimethylamine	1.2725	1.0016	21.3		
Bis(2-chloroethyl)ether	1.3656	1.1604	15		
Phenol	1.9876	1.7104	13.9		
2-Chlorophenol	1.5357	1.4834	3.41		
1,4-Dichlorobenzene	1.7023	1.7020	0.02		
Benzyl Alcohol	1.4971	1.1885	20.6		
Bis(2-chloroisopropyl)ether	0.5068	0.4871	3.89		
2-Methylphenol	1.4445	1.3299	7.93		
Hexachloroethane	0.7291	0.7210	1.11		
n-Nitrosodi-n-propylamine	1.3484	1.0066	25.3	>0.05	
3&4-Methyl Phenol	1.6615	0.7392	55.5		
Nitrobenzene	0.4389	0.3737	14.8		
Isophorone	0.7558	0.6247	17.4		
2-Nitrophenol	0.1763	0.1951	10.7		
2,4-Dimethylphenol	0.3780	0.3473	8.12		
Bis(2-chlorethoxy)methane	0.4719	0.4078	13.6		
2,4-Dichlorophenol	0.2897	0.3059	5.61		
1,2,4-Trichlorobenzene	0.3247	0.3483	7.28		
4-Chloroaniline	0.1679	0.1346	19.8		
Hexachloro-1,3-butadiene	0.1851	0.2080	12.4		
4-Chloro-3-methylphenol	0.3441	0.3049	11.4		
Hexachlorocyclopentadiene	0.3285	0.3180	3.2	>0.05	
2,4,6-Trichlorophenol	0.3310	0.3466	4.71		
2,4,5-Trichlorophenol	0.3618	0.3715	2.67		
2-Chloronaphthalene	1.1563	1.1602	0.33		
2-Nitroaniline	0.3691	0.3727	0.97		
Dimethyl phthalate	1.2596	1.2042	4.39		
2,6-Dinitrotoluene	0.2804	0.2956	5.41		
3-Nitroaniline	0.3352	0.3348	0.13		
Acenaphthene	1.1998	1.2408	3.41		
2,4-Dinitrophenol	0.1300	0.1133	12.8	>0.05	**

*** - calibrated by linear regression*

12065 Lebanon Rd
Mt. Juliet, TN 37122
(615) 758-5858
(800) 767-5859
Fax (615) 758-5859
Tax I.D 62-0814289
Est. 1970

Quality Control Summary
SDG: L735181
URS Corporation - Tucson AZ - 1088308

Test: Semi-Volatiles by Method 8270C
Project No: 23446543.0057AA
Project: Holloman AFB EPA ID: TN00003
Collection Date: 11/20/2014
Instrument ID: BNAMS11

Method Name : S811K12AN.M Date : 11/26/2014
FileName : 1125B_02.D Time : 4:50 AM

Continuing Calibration Verification

Compound Name	Average RRF	CCC RRF	%D		
Dibenzofuran	1.6226	1.6438	1.31		
2,4-Dinitrotoluene	0.3666	0.3826	4.34		
4-Nitrophenol	0.2556	0.2547	0.35	>0.05	
4-Chlorophenyl-phenylether	0.6302	0.6506	3.23		
Diethyl phthalate	1.3608	1.2587	7.51		
4-Nitroaniline	0.3137	0.3650	16.3		
1,2-Diphenylhydrazine	1.6442	1.3216	19.6		
4,6-Dinitro-2-methylphenol	0.0943	0.1219	29.3		**
n-Nitrosodiphenylamine	0.6353	0.6217	2.14		
4-Bromophenyl-phenylether	0.2238	0.2180	2.61		
Hexachlorobenzene	0.2668	0.2434	8.78		
Pentachlorophenol	0.1448	0.1265	12.6		
Carbazole	1.1176	1.1384	1.87		
Di-n-butyl phthalate	1.4819	1.4442	2.55		
Fluoranthene	1.3896	1.4596	5.04		
Benzylbutyl phthalate	0.6051	0.5778	4.51		
Bis(2-ethylhexyl)phthalate	0.9054	0.8560	5.45		
Di-n-octyl phthalate	1.5415	1.5468	0.35		
Benzo(a)pyrene	1.0884	1.1189	2.81		

*** - calibrated by linear regression*

12065 Lebanon Rd
Mt. Juliet, TN 37122
(615) 758-5858
(800) 767-5859
Fax (615) 758-5859
Tax I.D 62-0814289
Est. 1970

Quality Control Summary
SDG: L735181
URS Corporation - Tucson AZ - 1088308

Test: Semi-Volatiles by Method 8270C
Project No: 23446543.0057AA
Project: Holloman AFB EPA ID: TN00003
Collection Date: 11/20/2014
Instrument ID: BNAMS11

Method Name : S811K12AN.M Date : 11/26/2014
FileName : 1125B_04.D Time : 5:44 AM

Continuing Calibration Verification

Compound Name	Average RRF	CCC RRF	%D	
Benzoic acid	0.1903	0.1495	21.5	**

*** - calibrated by linear regression*

Raw Data

BNA RV SVOCs Benchsheet

Batch #: WG756405

Analyst: JMR571 **Prep Start Date/Time:** 11/25/14 12:50:16 **Prep End Date/Time:** 11/25/14 17:24:52

Na2SO4: 14J24546 Amt. Used: 5 Exp. Date:04/24/15 **MeCl2:** 14K21108 Amt. Used: 5 Exp. Date:05/21/15 **NaOH:** 14J30860 Amt. Used: 5 Exp. Date:02/05/15

H2SO4: 14K16807 Amt. Used: 5 Exp. Date:04/04/15 **Surrogate:** 14K08418 Amt. Used: 100 µL Exp. Date:03/08/15 **LCS/MS Spike:** 14K19022 Amt. Used: 250 µL Exp. Date:03/14/15

Sample Number	Qualifiers	Extracted Vol. (mL)	Adjusted pH<2	Adjusted pH >11	Solvent Vol. (mL)	Emulsion	Final Sample Vol.(mL)	Extract Color	Sample Comments
BLANK		100	<2	>11	36	No Emulsion	0.5	Colorless	
LCS		100	<2	>11	36	No Emulsion	0.5	Yellow	
LCSD		100	<2	>11	36	No Emulsion	0.5	Yellow	
1. L734891-01		100	<2	>11	36	No Emulsion	0.5	Colorless	
2. L734964-01		100	<2	>11	36	No Emulsion	0.5	Colorless	Need 1X dilution on 8270BN.
3. L734964-02		100	<2	>11	36	No Emulsion	0.5	Colorless	Need 1X dilution on 8270BN.
4. L735023-19		100	<2	>11	36	No Emulsion	0.5	Colorless	
5. L735023-20		100	<2	>11	36	No Emulsion	0.5	Colorless	
6. L735023-21		100	<2	>11	36	No Emulsion	0.5	Yellow	
7. L735023-22		100	<2	>11	36	No Emulsion	0.5	Yellow	
8. L735113-01		100	<2	>11	36	No Emulsion	0.5	Colorless	
9. L735113-02		100	<2	>11	36	No Emulsion	0.5	Colorless	
10. L735113-03		100	<2	>11	36	No Emulsion	0.5	Colorless	
11. L735113-04		100	<2	>11	36	No Emulsion	0.5	Colorless	
12. L735113-05		100	<2	>11	36	No Emulsion	0.5	Colorless	
13. L735113-06		100	<2	>11	36	No Emulsion	0.5	Colorless	
14. L735113-07		100	<2	>11	36	No	0.5	Colorless	

						Emulsion			
15. L735113-08		100	<2	>11	36	No Emulsion	0.5	Colorless	
16. L735113-09		100	<2	>11	36	No Emulsion	0.5	Colorless	
17. L735172-02		100	<2	>11	36	No Emulsion	0.5	Colorless	
18. L735181-02		100	<2	>11	36	No Emulsion	0.5	Colorless	EDD/QC4/DOD
19. L735181-05		100	<2	>11	36	No Emulsion	0.5	Colorless	EDD/QC4/DOD
20. L735181-07		100	<2	>11	36	No Emulsion	0.5	Colorless	EDD/QC4/DOD

Comments:
L734942-01 and -02 extracted as L734964-01 and -02 respectively. CoC for L734942-01 (MW-13) and -02 (MW-41) matches client labels on L734964-01 and -02. No CoC for L734964, but Login information for L734964 matches CoC information for L734942.

Reviewed By:CJR140 on 11/26/14 06:14:54

BNA RV SVOCs Benchsheet

Batch #: WG756857

Analyst: STM601 **Prep Start Date/Time:** 11/25/14 20:35:21 **Prep End Date/Time:** 11/25/14 23:39:07

Na2SO4: 14J24546 Amt. Used: 10 Exp. Date:04/24/15 **MeCl2:** 14K21108 Exp. Date:05/21/15 **NaOH:** 14J30860 Exp. Date:02/05/15 **H2SO4:** 14K16807 Exp. Date:04/04/15

Surrogate: 14K08418 Amt. Used: 100 µL Exp. Date:03/08/15 **LCS/MS Spike:** 14K19022 Amt. Used: 250 µL Exp. Date:03/14/15

Sample Number	Qualifiers	Extracted Vol. (mL)	Adjusted pH<2	Adjusted pH >11	Solvent Vol. (mL)	Emulsion	Final Sample Vol.(mL)	Extract Color	Sample Comments
BLANK		100	<2	>11	36	No Emulsion	0.5	Colorless	
LCS		100	<2	>11	36	No Emulsion	0.5	Yellow	
LCSD		100	<2	>11	36	No Emulsion	0.5	Yellow	
1. L735000-01		100	<2	>11	36	No Emulsion	0.5	Colorless	
2. L735000-02		100	<2	>11	36	No Emulsion	0.5	Colorless	
3. L735095-15		100	<2	>11	36	No Emulsion	0.5	Colorless	8151 removed per Rick B 8/17/10
4. L735181-08		100	<2	>11	36	No Emulsion	0.5	Colorless	EDD/QC4/DOD
5. L735235-07		100	<2	>11	36	No Emulsion	0.5	Yellow	
6. L735235-09		100	<2	>11	36	No Emulsion	0.5	Yellow	
7. L735235-11		100	<2	>11	36	No Emulsion	0.5	Yellow	
8. L735243-01		100	<2	>11	36	No Emulsion	0.5	Yellow	Parameter change 9/25/12 per AW , TM
9. L735243-02		100	<2	>11	36	No Emulsion	0.5	Yellow	Parameter change 9/25/12 per AW , TM
10. L735296-01		100	<2	>11	36	No Emulsion	0.5	Colorless	
11. L735301-11		100	<2	>11	36	No Emulsion	0.5	Colorless	
12. L735318-07		100	<2	>11	36	No Emulsion	0.5	Colorless	EDD/QC4/DOD

13. L735318-08		100	<2	>11	36	No Emulsion	0.5	Colorless	EDD/QC4/DOD
14. L735337-01		100	<2	>11	36	No Emulsion	0.5	Yellow	
15. L735337-02		100	<2	>11	36	No Emulsion	0.5	Yellow	
16. L735387-08		100	<2	>11	36	No Emulsion	0.5	Colorless	
17. L735437-04		100	<2	>11	36	No Emulsion	0.5	Yellow	logged COC per attached email - JCR 11/22/14 unable to locate unable to locate
18. L735546-01		100	<2	>11	36	No Emulsion	0.5	Yellow	ships to LF

Comments:
syringe ESC30593

Reviewed By:CJR140 on 11/26/14 06:10:54

Environmental Science Corporation
12065 Lebanon Rd., Mt. Juliet, TN 37122

Injection Log

Instrument ID : BNAMS11
Computer Name : SVCOMPAC

Released By : Chris McCord
Date Released : 11/26/2014 4:33:54 PM

Run ID : 112514B
Signature : _____

#	File ID	Sample ID	Method	WG	Product	Matrix	Account #	State	Dil.	Mult.	Injected	Misc.
1	1125B_01	TUNE 50 PPM 14F19703	TUNEC						1	1	11/26/14 0414	"DFTPP"
2	1125B_01 T	TUNE 50 PPM 14F19703								1	11/26/14 0414	
3	1125B_02	ICVRL SVMS 10K PPB 14K07412	S811K12AN						1	1	11/26/14 0450	"8270 Primary Calibration"
3	1125B_02-1	ICVRL SVMS 10K PPB 14K07412	S811K12AN						1	1	11/26/14 0450	"8270 Primary Calibration"
3	1125B_02 RL	ICVRL SVMS 10K PPB 14K07412	S811K12AN						1	1	11/26/14 0450	"8270 Primary Calibration"
3	1125B_02 RL-1	ICVRL SVMS 10K PPB 14K07412	S811K12AN						1	1	11/26/14 0450	"8270 Primary Calibration"
4	1125B_03	DNR ICV TCL 10K1 PPB 14G21532	S811K12AN						1	1	11/26/14 0511	"8270 Primary Calibration"
5	1125B_04	ICV TCL 10K1 PPB 14G21532	S811K12AN						1	1	11/26/14 0544	"8270 Primary Calibration"
5	1125B_04-1	ICV TCL 10K1 PPB 14G21532	S811K12AN						1	1	11/26/14 0544	"8270 Primary Calibration"
6	1125B_05	LCS	S811K12AN	WG756857	8270TICD	GW			1	0.005	11/26/14 0614	"water 14K08418/14K19022"
6	1125B_05-2	LCS	S811K12AN	WG756857	8270	GW	MARENV		1	0.005	11/26/14 0614	"water 14K08418/14K19022"
7	1125B_06	LCSD	S811K12AN	WG756857	8270TICD	GW			1	0.005	11/26/14 0635	"water 14K08418/14K19022"
7	1125B_06-2	LCSD	S811K12AN	WG756857	8270	GW	MARENV		1	0.005	11/26/14 0635	"water 14K08418/14K19022"
8	1125B_07	BLANK	S811K12AN	WG756857	8270TICD	GW			1	0.005	11/26/14 0657	"water 14K08418/14K19022"
8	1125B_07-2	BLANK	S811K12AN	WG756857	8270	GW	MARENV		1	0.005	11/26/14 0657	"water 14K08418/14K19022"
9	1125B_08	L735000-01	S811K12AN	WG756857	8270	GW	MARENV	TN	1	0.005	11/26/14 0717	"water 14K08418/14K19022"

Environmental Science Corporation
12065 Lebanon Rd., Mt. Juliet, TN 37122

Injection Log

Instrument ID : BNAMS11
Computer Name : SVCOMPAC

Released By : Chris McCord
Date Released : 11/26/2014 4:33:54 PM

Run ID : 112514B
Signature : _____

#	File ID	Sample ID	Method	WG	Product	Matrix	Account #	State	Dil.	Mult.	Injected	Misc.
10	1125B_09	L735000-02	S811K12AN	WG756857	8270	GW	MARENV	TN	1	0.005	11/26/14 0739	"water 14K08418/14K19022"
11	1125B_10	L735095-15	S811K12AN	WG756857	8270AP2	GW	SME	TN	1	0.005	11/26/14 0800	"water 14K08418/14K19022"
12	1125B_11	L735181-08	S811K12AN	WG756857	8270	GW	URSTAZ	AZ	1	0.005	11/26/14 0821	"water 14K08418/14K19022"
13	1125B_12	L735243-02	S811K12AN	WG756857	8270AP2	GW	SMEBL	TN	1	0.005	11/26/14 0842	"water 14K08418/14K19022"
14	1125B_13	L735296-01	S811K12AN	WG756857	8270TICD	GW	PIEGEO	NC	1	0.005	11/26/14 0903	"water 14K08418/14K19022"
15	1125B_14	L735301-11	S811K12AN	WG756857	8270AP2	GW	SMEBL	TN	1	0.005	11/26/14 0924	"water 14K08418/14K19022"
16	1125B_15	L735318-07	S811K12AN	WG756857	8270	GW	URSTAZ	AZ	1	0.005	11/26/14 0946	"water 14K08418/14K19022"
17	1125B_16	L735318-08	S811K12AN	WG756857	8270	GW	URSTAZ	AZ	1	0.005	11/26/14 1007	"water 14K08418/14K19022"
18	1125B_17	L735337-02	S811K12AN	WG756857	8270BN	GW	MACTECLEX	KY	1	0.005	11/26/14 1028	"water 14K08418/14K19022"
19	1125B_18	L735387-08	S811K12AN	WG756857	8270	GW	ARCADHTX	TX	1	0.005	11/26/14 1049	"water 14K08418/14K19022"
20	1125B_19	L735546-01	S811K12AN	WG756857	8270AP9	GW	SMEBL	TN	1	0.005	11/26/14 1111	"water 14K08418/14K19022"
21	1125B_20	L735235-07	S811K12AN	WG756857	8270	GW	SUMMIT	IN	1	0.005	11/26/14 1132	"water 14K08418/14K19022"
22	1125B_21	L735235-09	S811K12AN	WG756857	8270	GW	SUMMIT	IN	1	0.005	11/26/14 1153	"water 14K08418/14K19022"
23	1125B_22	L735437-04	S811K12AN	WG756857	8270	GW	AMECPLPA	PA	1	0.005	11/26/14 1214	"water 14K08418/14K19022"
24	1125B_23	L735235-11	S811K12AN	WG756857	8270	GW	SUMMIT	IN	5	0.025	11/26/14 1236	"water 14K08418/14K19022"
25	1125B_24	L735337-01	S811K12AN	WG756857	8270BN	GW	MACTECLEX	KY	5	0.025	11/26/14 1257	"water 14K08418/14K19022"
26	1125B_25	L735243-01	S811K12AN	WG756857	8270AP2	GW	SMEBL	TN	5	0.025	11/26/14 1318	"water 14K08418/14K19022"
27	1125B_26	L735023-09	S811K12AN	WG756302	8270BN	GW	COMMANINWPA	PA	1	0.005	11/26/14 1339	"water 14K08418/14K19022"
28	1125B_27	L735023-24	S811K12AN	WG756302	8270BN	GW	COMMANINWPA	PA	5	0.025	11/26/14 1400	"water 14K08418/14K19022"
29	1125B_28	L735023-12	S811K12AN	WG756302	8270BN	GW	COMMANINWPA	PA	5	0.025	11/26/14 1422	"water 14K08418/14K19022"
30	1125B_29	L735387-04	S811K12AN	WG756385	SV8270	SS	ARCADHTX	TX	20	0.666	11/26/14 1443	"soil 14K08418/14K19022 final 32,64-77"
31	1125B_30	L735356-01	S811K12AN	WG756385	SV8270	SS	BROSCICPA	PA	20	0.666	11/26/14 1504	"soil 14K08418/14K19022"
32	1125B_31	L735356-02	S811K12AN	WG756385	SV8270	SS	BROSCICPA	PA	200	6.66	11/26/14 1526	"soil 14K08418/14K19022"

Environmental Science Corporation
12065 Lebanon Rd., Mt. Juliet, TN 37122

Injection Log

Instrument ID : BNAMS11
Computer Name : SVCOMPAC

Released By : Chris McCord
Date Released : 11/26/2014 4:33:54 PM

Run ID : 112514B
Signature : _____

#	File ID	Sample ID	Method	WG	Product	Matrix	Account #	State	Dil.	Mult.	Injected	Misc.
33	1125B_32	L735356-04	S811K12AN	WG756385	SV8270	SS	BROSCICPA	PA	200	6.66	11/26/14 1547	"soil 14K08418/14K19022"

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\112514B\1125B 01.D Vial: 1
Acq On : 26 Nov 2014 4:14 am Operator: 280
Sample : TUNE 50 PPM 14F19703 Inst : BNAMS11
Misc : DFTPP Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Nov 26 4:48 2014 Quant Results File: TUNEC.RES

Quant Method : C:\MSDCHEM\1\METHODS\TUNEC.M (RTE Integrator)
Title : 8270 BNA
Last Update : Mon Sep 15 15:56:23 2014
Response via : Initial Calibration
DataAcq Meth : BNA11A

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)

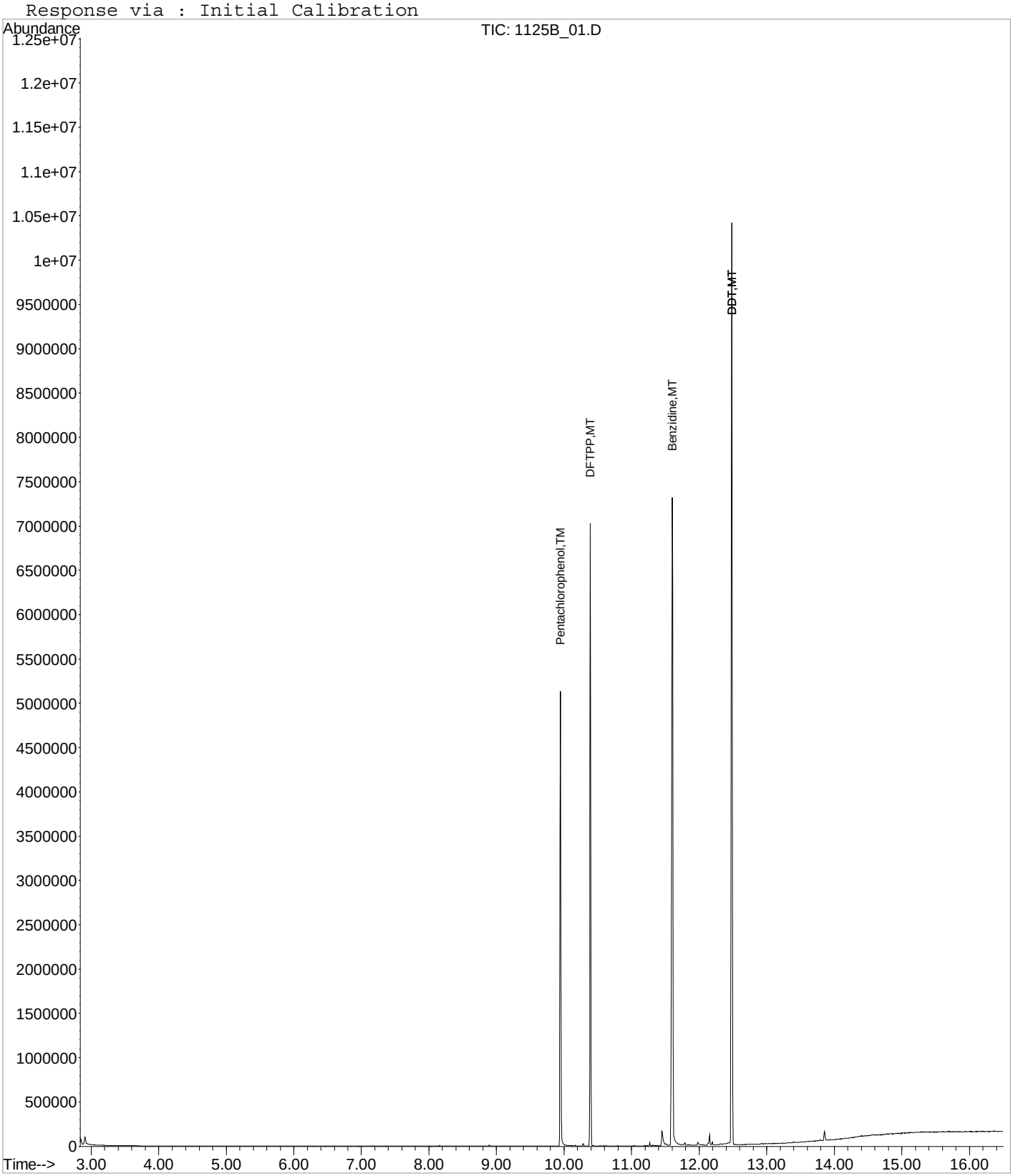
Target Compounds					Qvalue
1) Pentachlorophenol	9.95	264	343138	76.7821740 ug/mL	100
2) DFTPP	10.39	198	656225	88.6862448 ug/mL	100
3) Benzidine	11.60	184	3376553	91.3122855 ug/mL	100
4) DDT	12.48	TIC	9411671	479.6640705 ug/ml	100
5) DDT	12.48	235	1878267	139.5835532 ug/mL	100

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\112514B\1125B 01.D Vial: 1
Acq On : 26 Nov 2014 4:14 am Operator: 280
Sample : TUNE 50 PPM 14F19703 Inst : BNAMS11
Misc : DFTPP Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Nov 26 4:48 2014 Quant Results File: TUNEC.RES

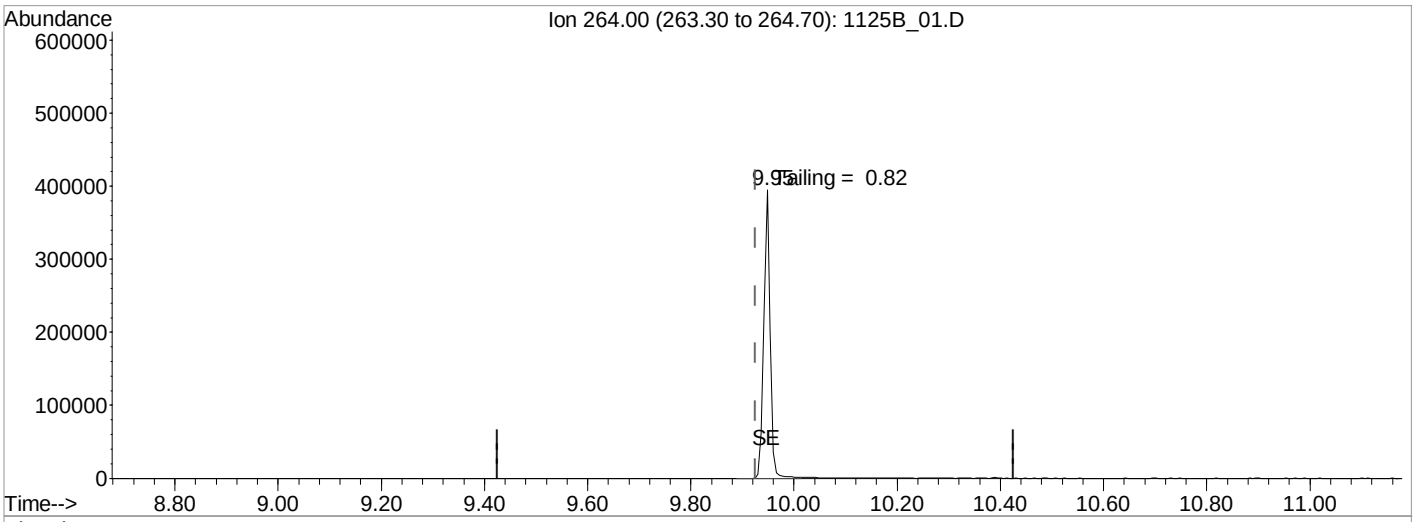
Method : C:\MSDCHEM\1\METHODS\TUNEC.M (RTE Integrator)
Title : 8270 BNA
Last Update : Mon Sep 15 15:56:23 2014
Response via : Initial Calibration

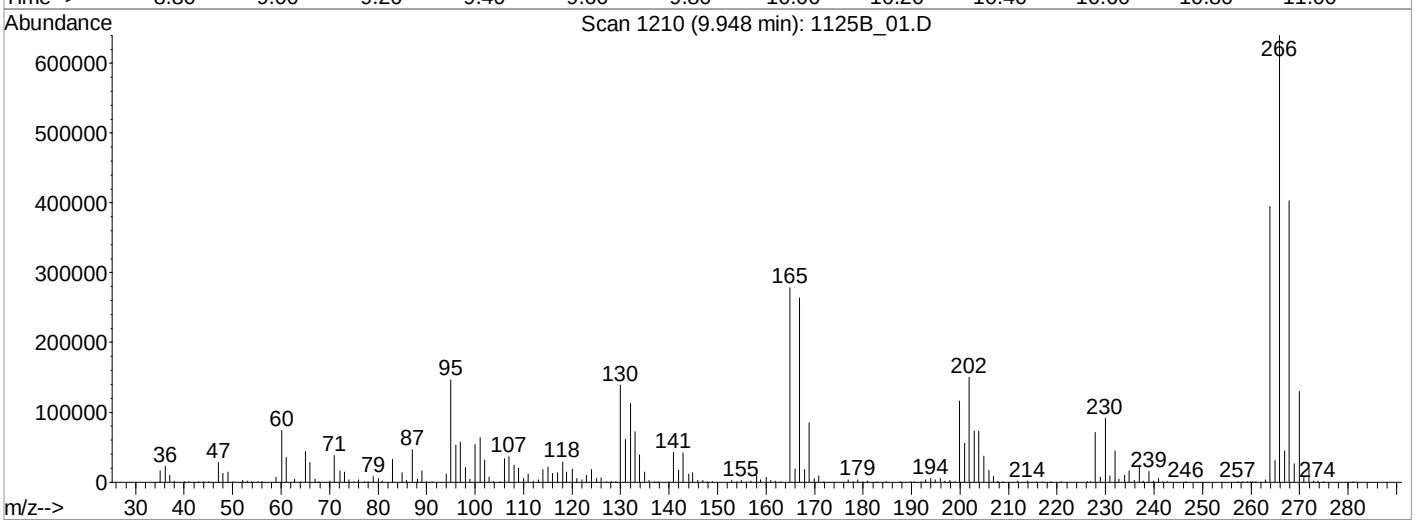


Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\112514B\1125B 01.D Vial: 1
Acq On : 26 Nov 2014 4:14 am Operator: 280
Sample : TUNE 50 PPM 14F19703 Inst : BNAMS11
Misc : DFTPP Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Nov 26 4:48 2014 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\TUNEC.M (RTE Integrator)
Title : 8270 BNA
Last Update : Mon Sep 15 15:56:23 2014
Response via : Single Level Calibration





TIC: 1125B_01.D

(1) Pentachlorophenol (TM)

9.95min (+0.023) 76.7821740 ug/mL

Qvalue = 100

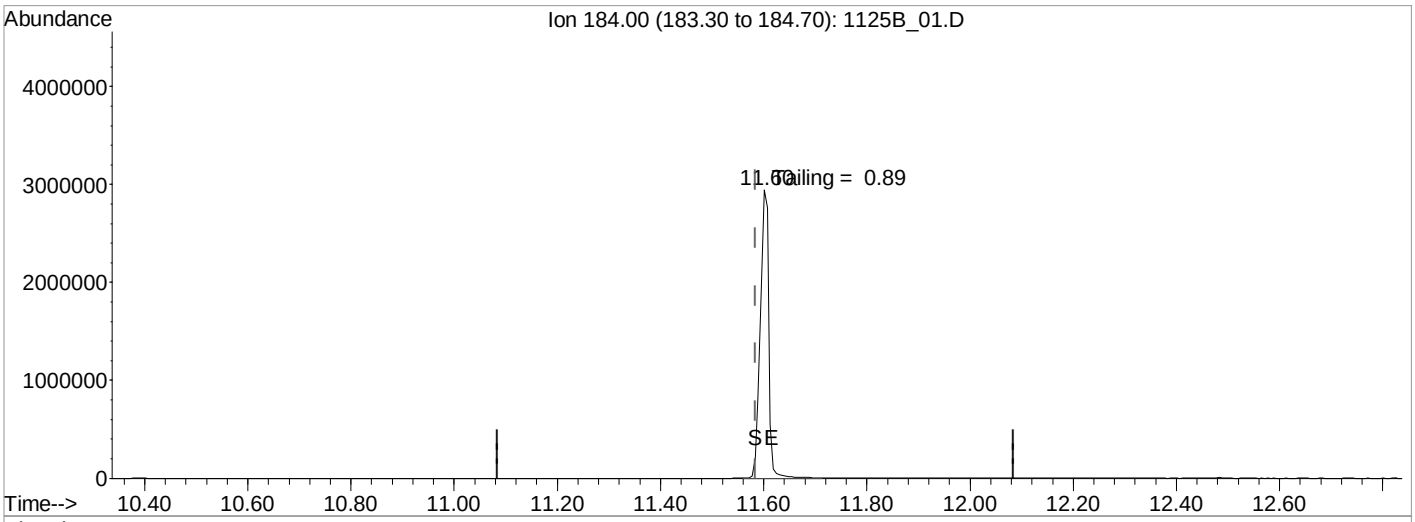
response 343138

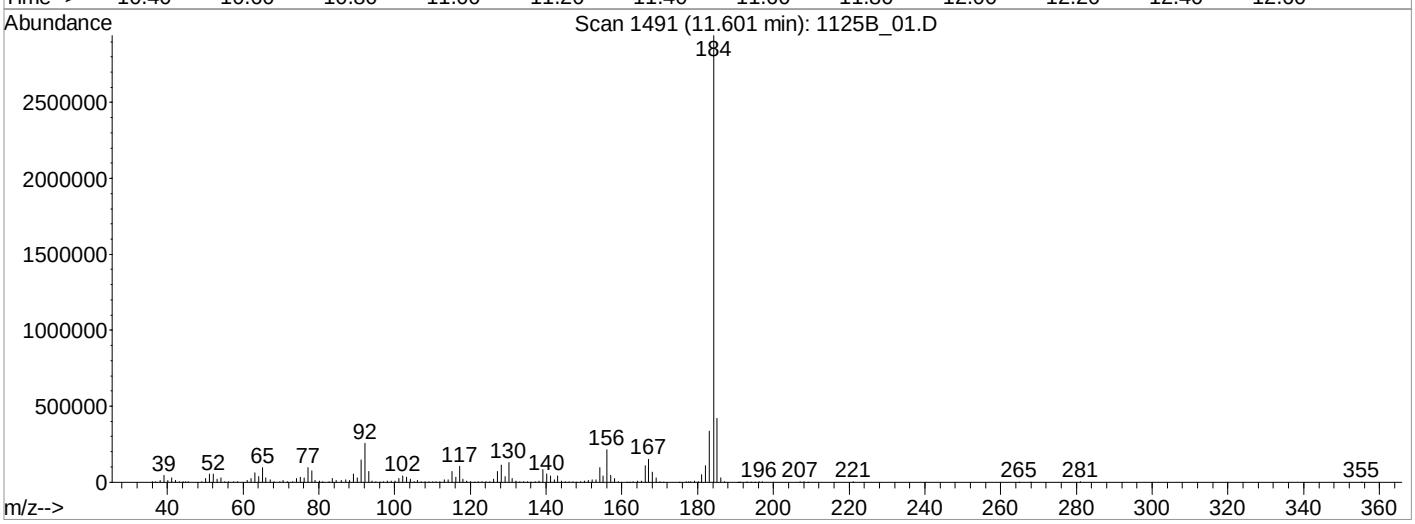
Ion	Exp%	Act%
264.00	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\112514B\1125B 01.D Vial: 1
Acq On : 26 Nov 2014 4:14 am Operator: 280
Sample : TUNE 50 PPM 14F19703 Inst : BNAMS11
Misc : DFTPP Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Nov 26 4:48 2014 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\TUNEC.M (RTE Integrator)
Title : 8270 BNA
Last Update : Mon Sep 15 15:56:23 2014
Response via : Single Level Calibration





TIC: 1125B_01.D

(3) Benzidine (MT)

11.60min (+0.018) 91.3122855 ug/mL

Qvalue = 100

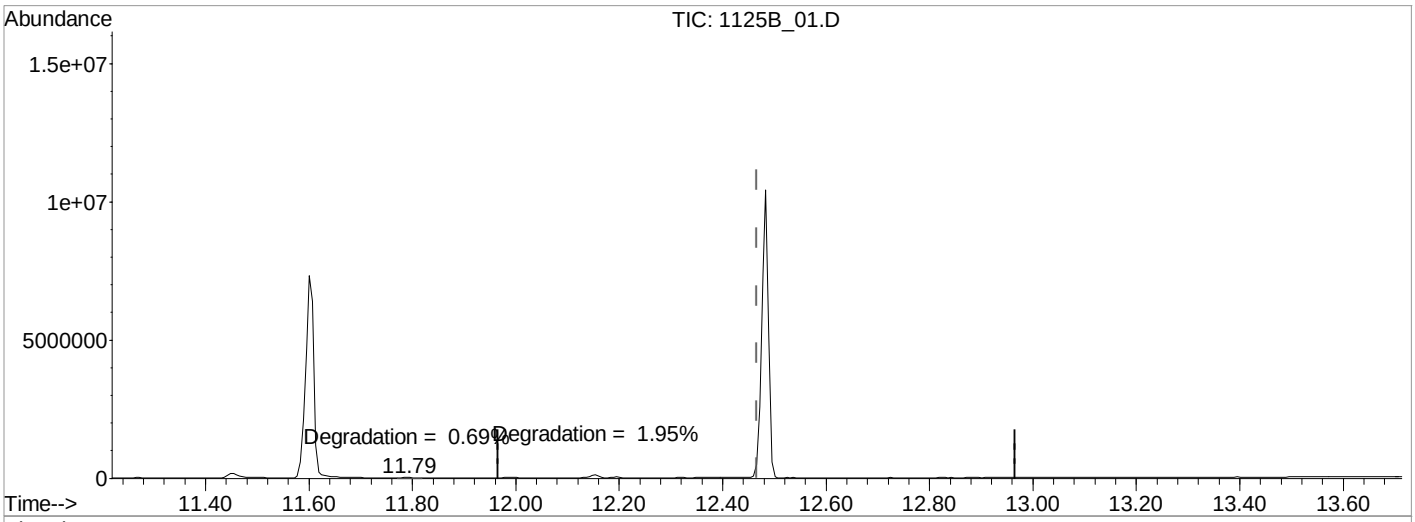
response 3376553

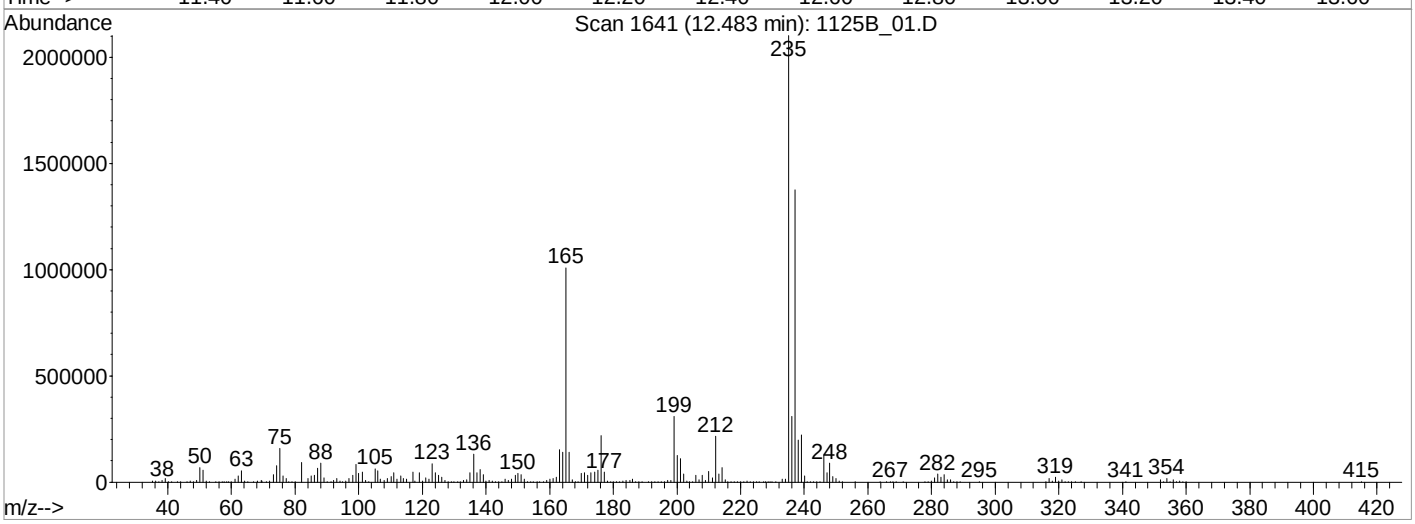
Ion	Exp%	Act%
184.00	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\112514B\1125B 01.D Vial: 1
Acq On : 26 Nov 2014 4:14 am Operator: 280
Sample : TUNE 50 PPM 14F19703 Inst : BNAMS11
Misc : DFTPP Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Nov 26 4:48 2014 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\TUNEC.M (RTE Integrator)
Title : 8270 BNA
Last Update : Mon Sep 15 15:56:23 2014
Response via : Single Level Calibration





TIC: 1125B_01.D

(4) DDT (MT)

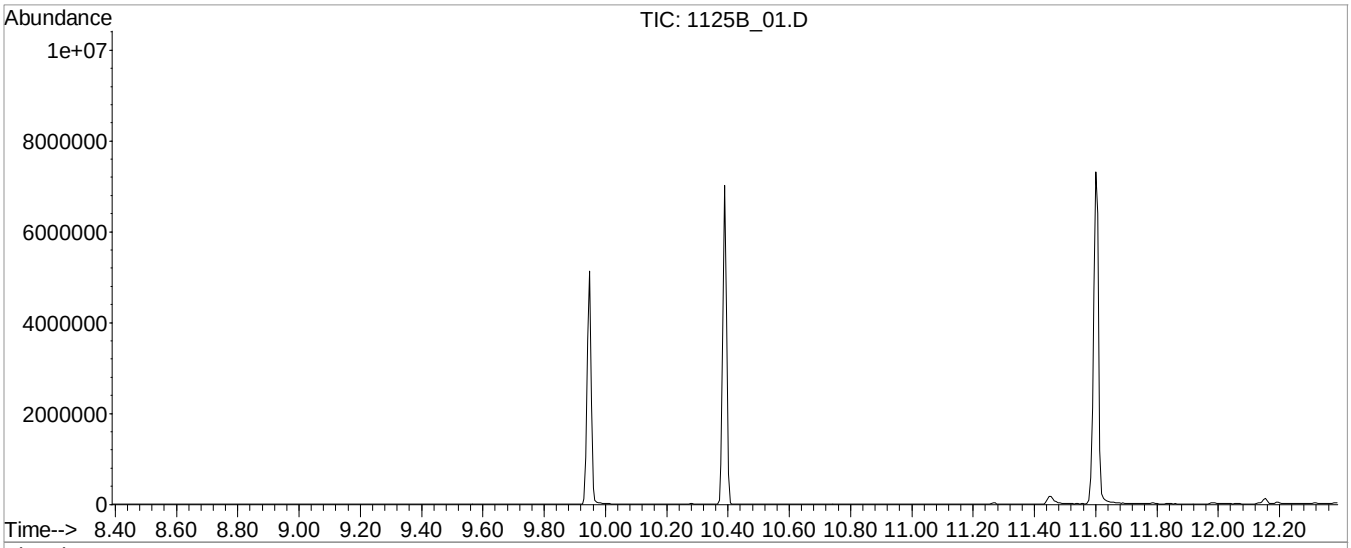
12.48min (+0.018) 479.6640705 ug/ml

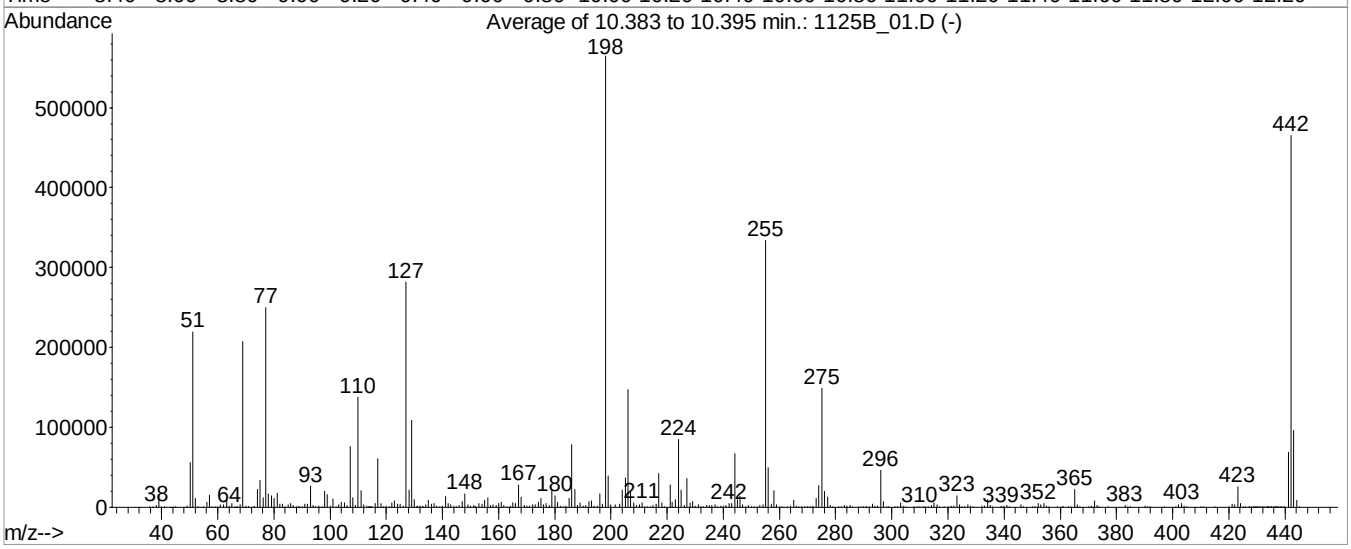
Qvalue = 100

response 9411671

Signal	Exp%	Act%
TIC	100	100
0.00	6.60	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Data File : C:\MSDCHEM\1\DATA\112514B\1125B 01.D Vial: 1
Acq On : 26 Nov 2014 4:14 am Operator: 280
Sample : TUNE 50 PPM 14F19703 Inst : BNAMS11
Misc : DFTPP Multiplr: 1.00
MS Integration Params: RTEINT.P
Method : C:\MSDCHEM\1\METHODS\TUNEC.M (RTE Integrator)
Title : 8270 BNA





Spectrum Information: Average of 10.383 to 10.395 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	38.8	219392	PASS
68	69	0.00	2	1.4	2939	PASS
69	198	0.00	100	36.6	206933	PASS
70	69	0.00	2	0.5	1038	PASS
127	198	40	60	49.8	281429	PASS
197	198	0.00	1	0.7	3807	PASS
198	198	100	100	100.0	564736	PASS
199	198	5	9	6.8	38584	PASS
275	198	10	30	26.3	148544	PASS
365	198	1	100	3.9	22148	PASS
441	443	0.01	100	71.9	68877	PASS
442	198	40	100	82.3	464832	PASS
443	442	17	23	20.6	95856	PASS

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\112514B\1125B 02.D Vial: 2
Acq On : 26 Nov 2014 4:50 am Operator: 280
Sample : ICVRL SVMS 10K PPB 14K07412 Inst : BNAMS11
Misc : 8270 Primary Calibration Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Nov 26 5:40 2014 Quant Results File: S811K12AN.RES

Quant Method : C:\MSDCHEM\1\METHODS\S811K12AN.M (RTE Integrator)
Title : 8270 BNA
Last Update : Thu Nov 13 14:05:28 2014
Response via : Initial Calibration
DataAcq Meth : BNA11A

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	5.42	152	85858	8000.00 ppb	-0.06
22) Naphthalene-d8	6.68	136	365437	8000.00 ppb	-0.08
40) Acenaphthene-d10	8.55	164	227487	8000.00 ppb	-0.10
64) Phenanthrene-d10	10.17	188	408948	8000.00 ppb	-0.12
78) Chrysene-d12	13.04	240	473966	8000.00 ppb	-0.14
88) Perylene-d12	14.54	264	550270	8000.00 ppb	-0.17

System Monitoring Compounds					
4) 2-Fluorophenol	4.32	112	138576	9077.6105280 ppb	-0.03
Spiked Amount 20.000	Range 10 - 74		Recovery = 45388.05%#		
7) Phenol-d5	5.04	99	178716	8551.3749568 ppb	-0.05
Spiked Amount 20.000	Range 10 - 63		Recovery = 42756.87%#		
23) Nitrobenzene-d5	5.94	82	170853	8686.1402634 ppb	-0.07
Spiked Amount 10.000	Range 28 - 123		Recovery = 86861.40%#		
44) 2-Fluorobiphenyl	7.81	172	382631	10342.9094905 ppb	-0.09
Spiked Amount 10.000	Range 35 - 133		Recovery = 103429.09%#		
67) 2,4,6-Tribromophenol	9.41	330	58087	9606.6388038 ppb	-0.11
Spiked Amount 20.000	Range 22 - 154		Recovery = 48033.19%#		
81) p-Terphenyl-d14	11.86	244	594476	10718.4177652 ppb	-0.13
Spiked Amount 10.000	Range 30 - 148		Recovery = 107184.18%#		

Target Compounds					Qvalue
2) Pyridine	3.44	79	179237	7619.7717125 ppb	88
3) N-Nitrosodimethylamine	3.41	42	107498	7871.3743944 ppb	92
5) Aniline	5.12	66	83383	7531.7897814 ppb	95
6) bis(2-Chloroethyl)ether	5.15	63	124534	8497.2337454 ppb	98
8) Phenol	5.05	94	183567	8605.6521700 ppb	99
9) Benzaldehyde	5.52	105	4623	558.7479567 ppb #	1
10) 2-Chlorophenol	5.22	128	159203	9659.3127492 ppb	95
11) n-Decane	5.23	41	106064	8149.8223221 ppb	96
12) 1,3-Dichlorobenzene	5.37	146	182863	10126.4448770 ppb	94
13) 1,4-Dichlorobenzene	5.44	146	182668	9998.4091084 ppb	97
14) Benzyl Alcohol	5.52	79	127554	7938.9114745 ppb	95
15) 1,2-Dichlorobenzene	5.58	146	175581	10073.7271518 ppb	95
16) bis(2-Chloroisopropyl)ethe	5.65	121	52281	9611.2227087 ppb	89
17) 2-Methylphenol	5.61	108	142728	9206.9260789 ppb	97
18) Hexachloroethane	5.91	117	77381	9889.0585421 ppb	91
19) N-Nitrosodi-n-propylamine	5.77	70	108036	7465.4674639 ppb	89
20) 3&4-Methyl phenol	5.75	107	158655	8897.1971793 ppb	98
21) Acetophenone	5.75	105	1401	N.D.	
24) Nitrobenzene	5.97	77	170710	8515.6781312 ppb	94
25) Isophorone	6.19	82	285348	8264.8945574 ppb	95
26) 2-Nitrophenol	6.28	139	89142	11067.6165153 ppb	88
27) 2,4-Dimethylphenol	6.29	107	158641	9188.2475152 ppb	96
28) bis(2-Chlorethoxy)methane	6.39	93	186276	8641.6817604 ppb	97
29) 2,4-Dichlorophenol	6.52	162	139739	10560.9899470 ppb #	85
30) Benzoic Acid	6.29	105	4863	1139.1207712 ppb #	1
31) 1,2,4-Trichlorobenzene	6.61	180	159123	10728.0406680 ppb	99
32) Naphthalene	6.71	128	514736	9681.0940465 ppb	99
33) 4-Chloroaniline	6.74	65	61478	8017.1351400 ppb	78
34) Hexachloro-1,3-butadiene	6.82	225	95015	11236.2320439 ppb	98
35) Caprolactam	7.22	113	4186	877.0720152 ppb #	20
36) 4-Chloro-3-methylphenol	7.22	107	139286	8861.6498061 ppb	96
37) 2-Methylnaphthalene	7.43	142	356418	10038.4777842 ppb	98
38) 1-Methylnaphthalene	7.54	142	331953	10110.7019079 ppb	99

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\112514B\1125B 02.D Vial: 2
Acq On : 26 Nov 2014 4:50 am Operator: 280
Sample : ICVRL SVMS 10K PPB 14K07412 Inst : BNAMS11
Misc : 8270 Primary Calibration Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Nov 26 5:40 2014 Quant Results File: S811K12AN.RES

Quant Method : C:\MSDCHEM\1\METHODS\S811K12AN.M (RTE Integrator)
Title : 8270 BNA
Last Update : Thu Nov 13 14:05:28 2014
Response via : Initial Calibration
DataAcq Meth : BNA11A

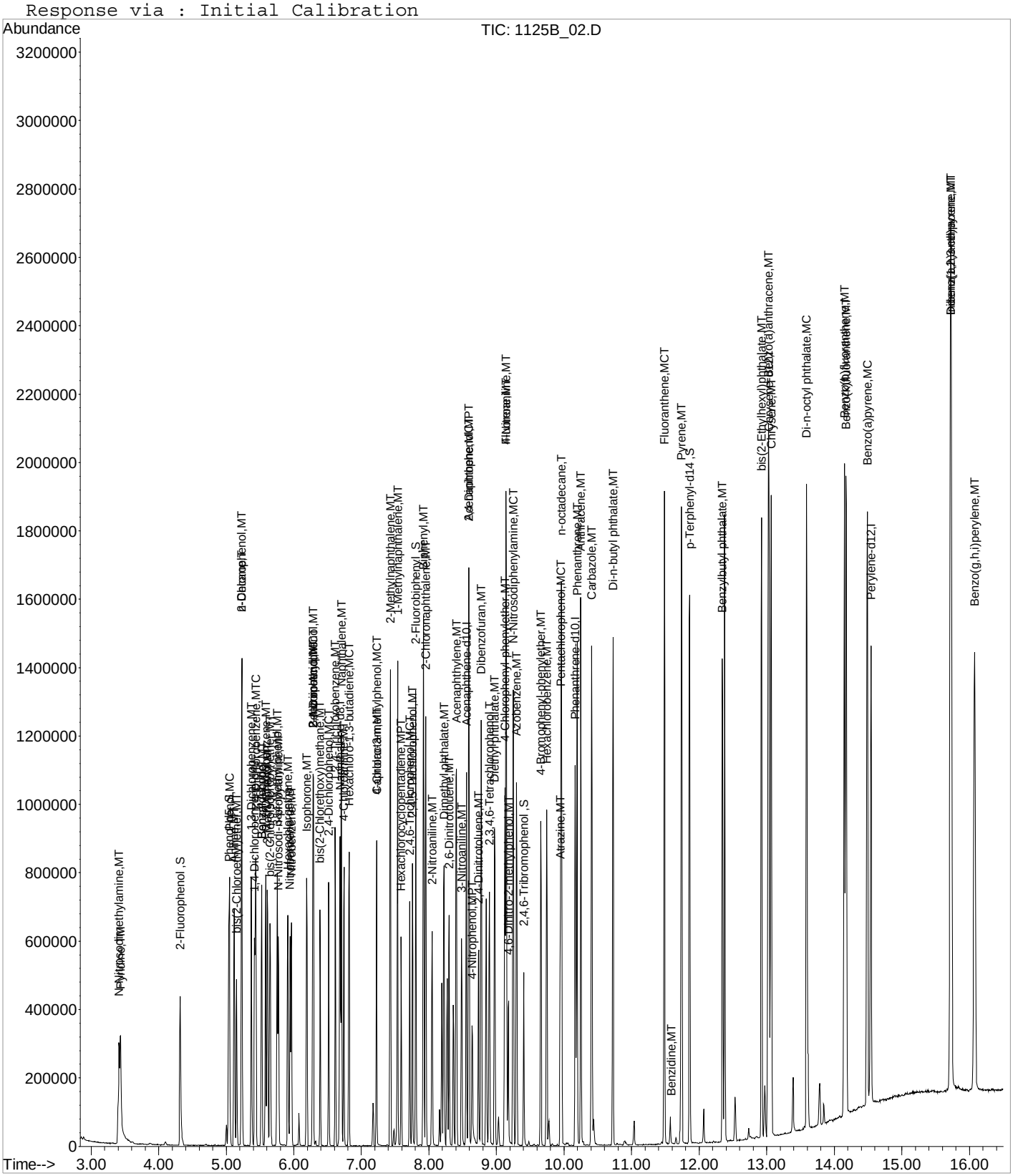
	Compound	R.T.	QIon	Response	Conc Unit		Qvalue
39)	1,2,4,5-Tetrachlorobenzene	7.60	216	128	N.D.		
41)	Hexachlorocyclopentadiene	7.59	237	90414	9680.4774693 ppb		97
42)	2,4,6-Trichlorophenol	7.72	196	98548	10470.5945717 ppb		91
43)	2,4,5-Trichlorophenol	7.75	196	105630	10266.7289090 ppb		96
45)	Biphenyl	7.92	154	434308	10279.8935143 ppb		99
46)	2-Chloronaphthalene	7.95	162	329901	10033.4459950 ppb		97
47)	2-Nitroaniline	8.05	138	105979	10096.8306525 ppb		86
48)	Acenaphthylene	8.41	152	511989	10026.7824228 ppb		99
49)	Dimethyl phthalate	8.22	163	342438	9560.5692696 ppb		93
50)	2,6-Dinitrotoluene	8.30	165	84055	10540.5725375 ppb		82
51)	3-Nitroaniline	8.48	138	95193	9987.4270507 ppb		85
52)	Acenaphthene	8.59	153	352820	10341.5025150 ppb		97
53)	2,4-Dinitrophenol	8.60	184	32220	8949.2359003 ppb	#	51
54)	Dibenzofuran	8.77	168	467435	10131.0131527 ppb		98
55)	2,4-Dinitrotoluene	8.74	165	108783	10433.8547380 ppb		92
56)	2,3,4,6-Tetrachlorophenol	8.90	232	88316	12441.2669199 ppb		89
57)	4-Nitrophenol	8.64	139	72432	9964.6887799 ppb	#	80
58)	Fluorene	9.14	166	389936	10140.1159067 ppb		98
59)	4-Chlorophenyl-phenylether	9.12	204	185004	10323.0405071 ppb		91
60)	Diethyl phthalate	8.97	149	357909	9249.2070201 ppb		98
61)	4-Nitroaniline	9.14	138	103800	11634.9255506 ppb		90
62)	Azobenzene	9.30	77	375801	8037.5489923 ppb		96
63)	Atrazine	9.94	200	11469	1134.4529839 ppb	#	31
65)	4,6-Dinitro-2-methylphenol	9.18	198	62315	10952.5585432 ppb		86
66)	N-Nitrosodiphenylamine	9.25	169	317810	9785.9948791 ppb		98
68)	4-Bromophenyl-phenylether	9.66	248	111438	9739.1534781 ppb	#	86
69)	Hexachlorobenzene	9.74	284	124430	9122.2266836 ppb		98
70)	n-octadecane	9.96	55	69560	8533.5478732 ppb		95
71)	Pentachlorophenol	9.95	266	64666	8738.5576269 ppb		97
72)	Phenanthrene	10.20	178	592013	10089.5981607 ppb		96
73)	Anthracene	10.25	178	608122	10245.2874498 ppb		100
74)	Carbazole	10.41	167	581945	10186.6756830 ppb		99
75)	Di-n-butyl phthalate	10.72	149	738254	9745.3043544 ppb		100
76)	2-nitrodiphenylamine	10.89	167	325	N.D.		
77)	Fluoranthene	11.48	202	746143	10504.0177595 ppb		100
79)	Benzidine	11.59	184	1772	280.0763921 ppb		81
80)	Pyrene	11.74	202	780705	11125.4475495 ppb		99
82)	Benzylbutyl phthalate	12.34	149	342329	9548.9275540 ppb		98
83)	3,3-Dichlorobenzidine	0.00	252	0	N.D.		
84)	Benzo(a)anthracene	13.02	228	753769	10075.8532362 ppb		97
85)	Chrysene	13.07	228	681346	10057.9503244 ppb		97
86)	bis(2-Ethylhexyl)phthalate	12.92	149	507145	9454.8766248 ppb		97
87)	Di-n-octyl phthalate	13.59	149	916421	10034.5062169 ppb		100
89)	Benzo(b)fluoranthene	14.15	252	795682	9964.1665886 ppb		98
90)	Benzo(k)fluoranthene	14.18	252	769849m	10740.1864183 ppb		
91)	Benzo(a)pyrene	14.49	252	769615	10280.5548531 ppb		97
92)	Indeno(1,2,3-cd)pyrene	15.73	276	1013496	11041.0554353 ppb		96
93)	Dibenz(a,h)anthracene	15.72	278	864408	11311.0278718 ppb		97
94)	Benzo(g,h,i)perylene	16.08	276	822604	10581.6106216 ppb		98

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\112514B\1125B 02.D Vial: 2
Acq On : 26 Nov 2014 4:50 am Operator: 280
Sample : ICVRL SVMS 10K PPB 14K07412 Inst : BNAMS11
Misc : 8270 Primary Calibration Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Nov 26 5:40 2014 Quant Results File: S811K12AN.RES

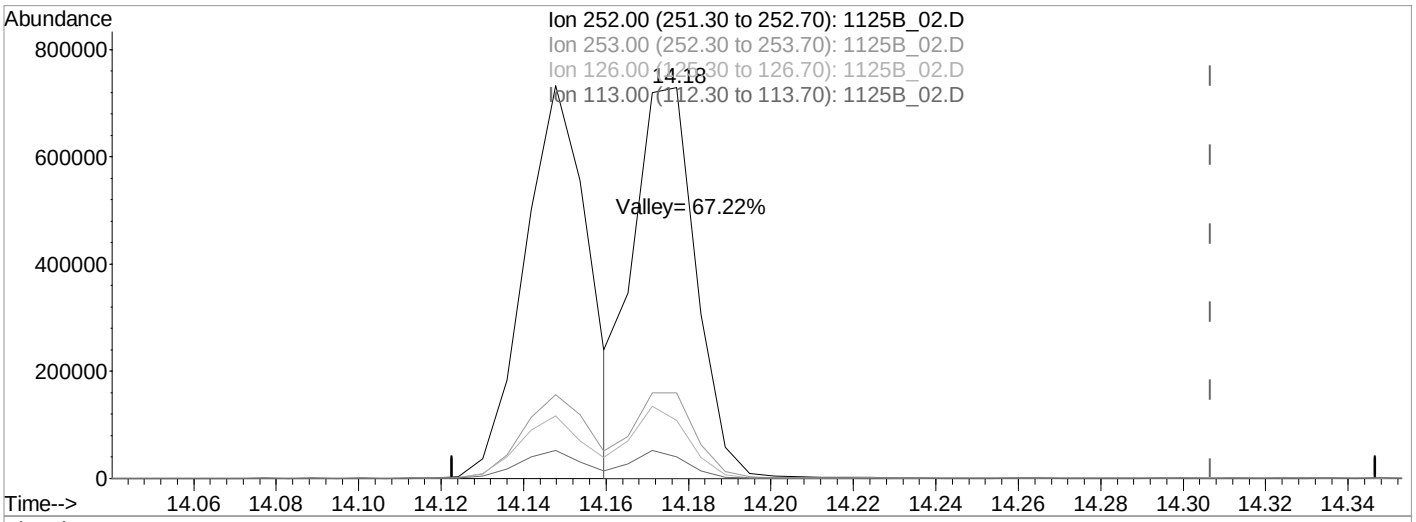
Method : C:\MSDCHEM\1\METHODS\S811K12AN.M (RTE Integrator)
Title : 8270 BNA
Last Update : Thu Nov 13 14:05:28 2014
Response via : Initial Calibration

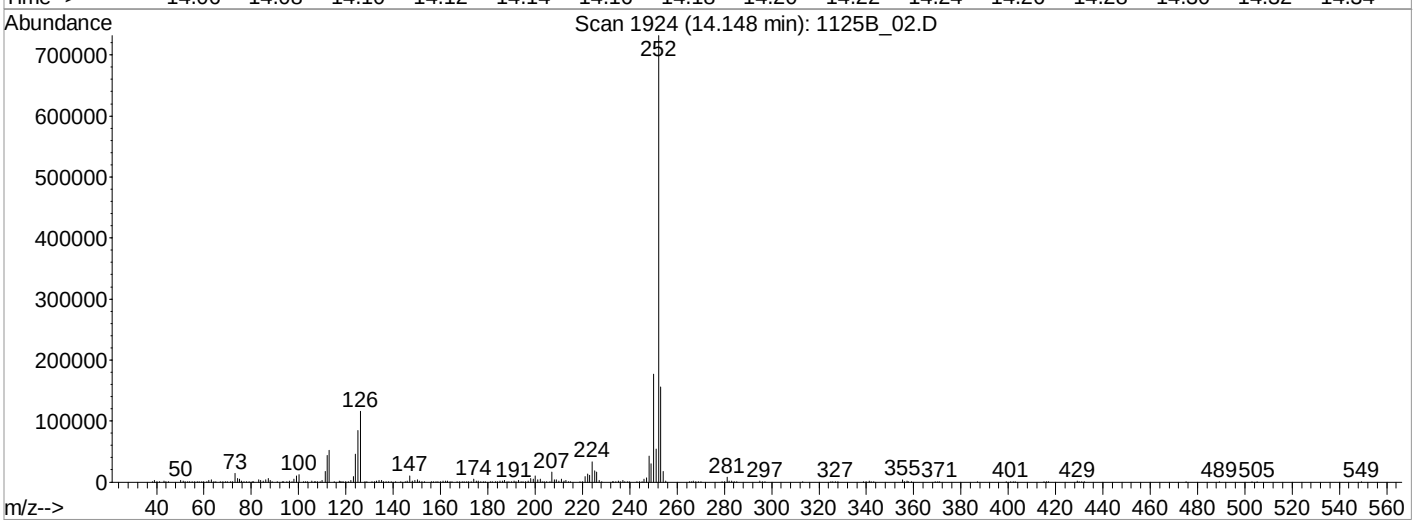


Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\112514B\1125B 02.D Vial: 2
Acq On : 26 Nov 2014 4:50 am Operator: 280
Sample : ICV SVMS 10K PPB 14K07412 Inst : BNAMS11
Misc : 8270 Primary Calibration Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Nov 26 5:40 2014 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\S811K12AN.M (RTE Integrator)
Title : 8270 BNA
Last Update : Thu Nov 13 14:05:28 2014
Response via : Multiple Level Calibration





TIC: 1125B_02.D

(89) Benzo(b)fluoranthene (MT)

14.15min (-0.159) 9964.1665886 ppb

Qvalue = 98

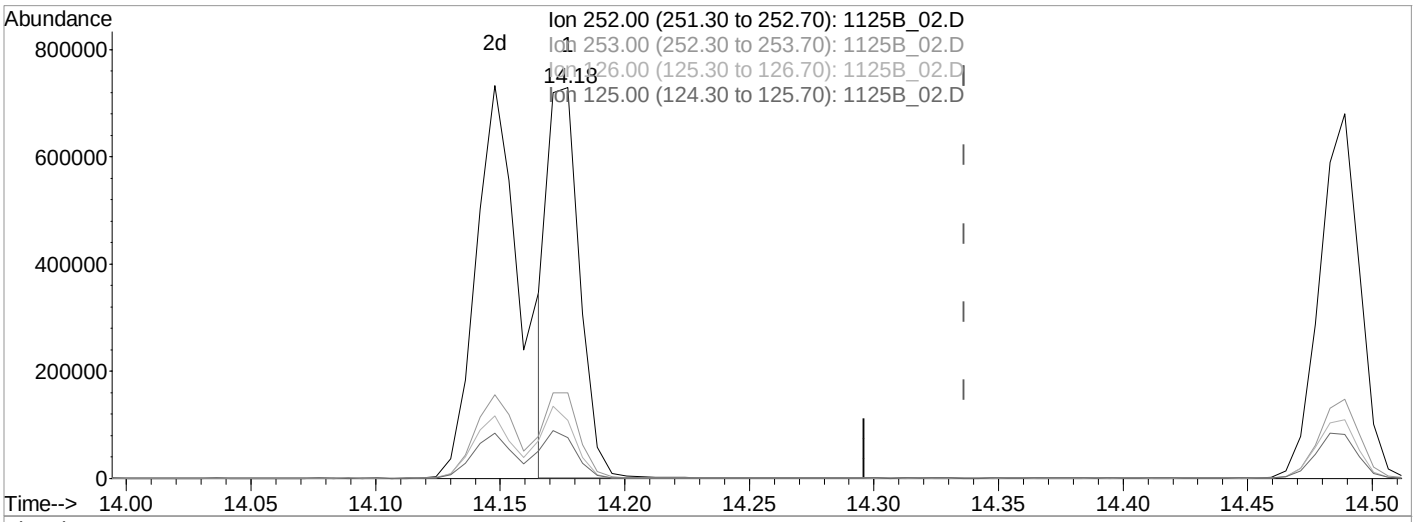
response 795682

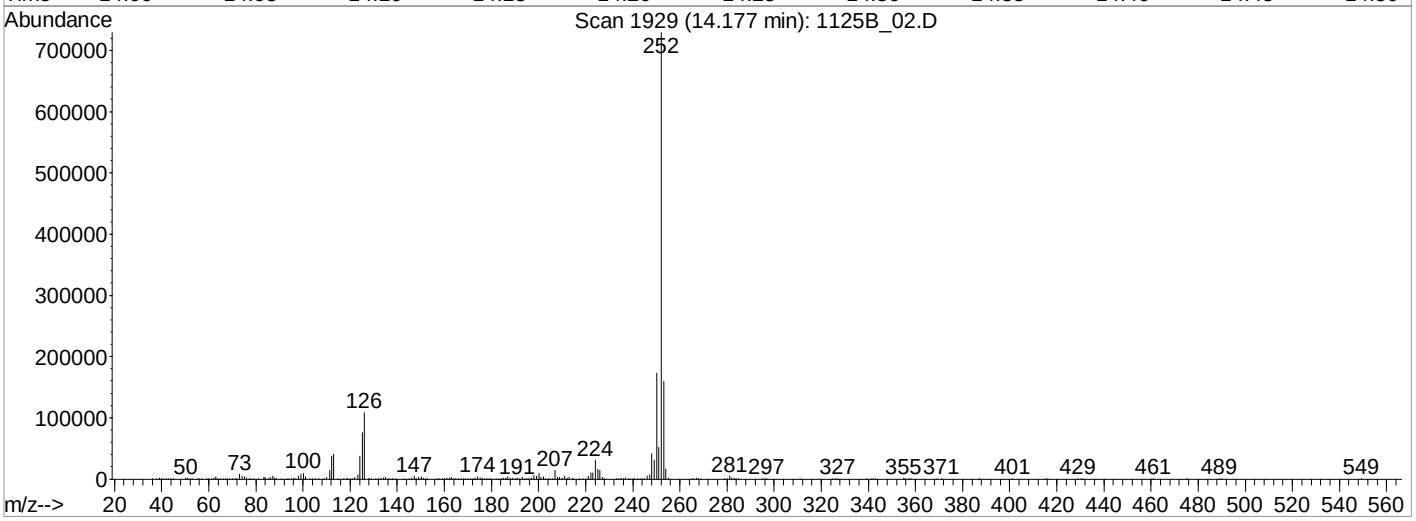
Ion	Exp%	Act%
252.00	100	100
253.00	22.30	21.19
126.00	15.50	15.86
113.00	7.80	7.37

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\112514B\1125B 02.D Vial: 2
Acq On : 26 Nov 2014 4:50 am Operator: 280
Sample : ICV SVMS 10K PPB 14K07412 Inst : BNAMS11
Misc : 8270 Primary Calibration Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Nov 26 5:40 2014 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\S811K12AN.M (RTE Integrator)
Title : 8270 BNA
Last Update : Thu Nov 13 14:05:28 2014
Response via : Multiple Level Calibration





TIC: 1125B_02.D

(90) Benzo(k)fluoranthene (MT)

14.18min (-0.159) 9049.6564190 ppb

Qvalue = 99

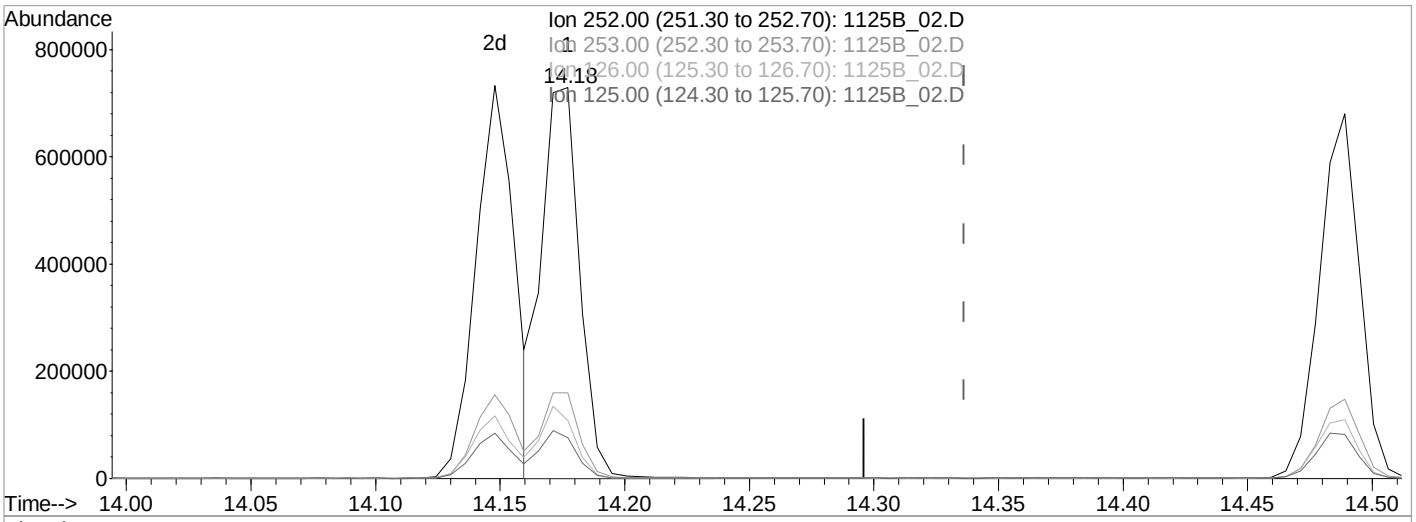
response 648673

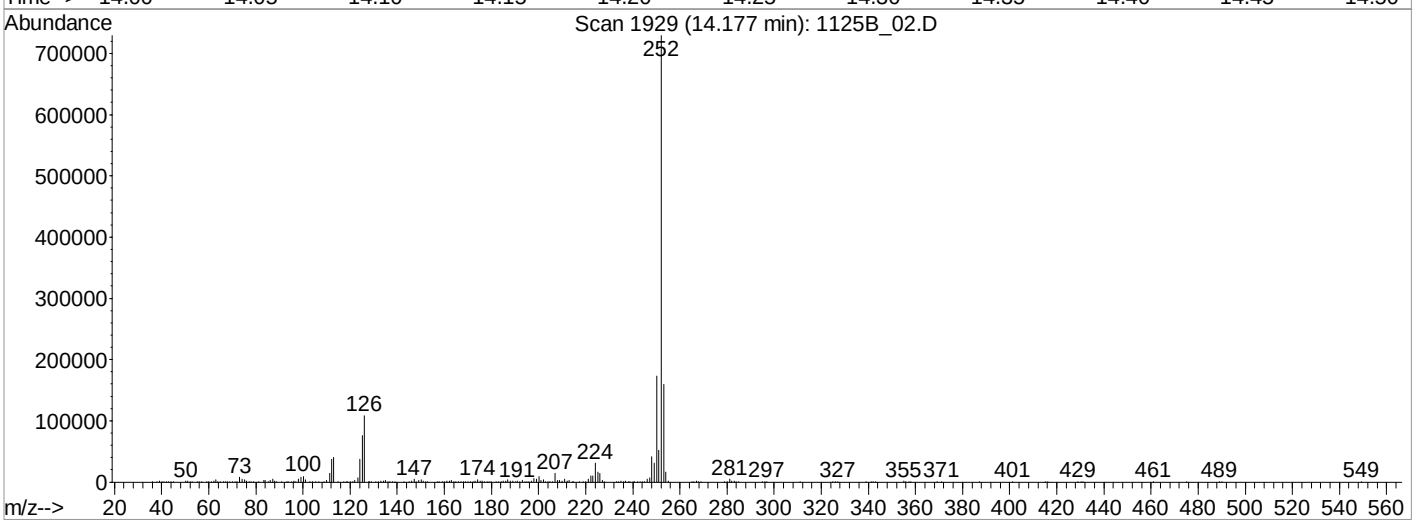
Ion	Exp%	Act%
252.00	100	100
253.00	21.90	21.70
126.00	16.00	14.85
125.00	10.50	10.35

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\112514B\1125B 02.D Vial: 2
Acq On : 26 Nov 2014 4:50 am Operator: 280
Sample : ICV SVMS 10K PPB 14K07412 Inst : BNAMS11
Misc : 8270 Primary Calibration Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Nov 26 5:40 2014 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\S811K12AN.M (RTE Integrator)
Title : 8270 BNA
Last Update : Thu Nov 13 14:05:28 2014
Response via : Multiple Level Calibration





TIC: 1125B_02.D

(90) Benzo(k)fluoranthene (MT)

14.18min (-0.159) 10740.1864183 ppb m

response 769849

Ion	Exp%	Act%
252.00	100	100
253.00	21.90	21.79
126.00	16.00	14.87
125.00	10.50	10.35

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\112514B\1125B 02.D Vial: 2
Acq On : 26 Nov 2014 4:50 am Operator: 280
Sample : ICVRL SVMS 10K PPB 14K07412 Inst : BNAMS11
Misc : 8270 Primary Calibration Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Nov 26 5:40 2014 Quant Results File: S811K12AN.RES

Quant Method : C:\MSDCHEM\1\METHODS\S811K12AN.M (RTE Integrator)
Title : 8270 BNA
Last Update : Thu Nov 13 14:05:28 2014
Response via : Initial Calibration
DataAcq Meth : BNA11A

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	5.42	152	85858	8000.00 ppb	-0.06
22) Naphthalene-d8	6.68	136	365437	8000.00 ppb	-0.08
40) Acenaphthene-d10	8.55	164	227487	8000.00 ppb	-0.10
64) Phenanthrene-d10	10.17	188	408948	8000.00 ppb	-0.12
78) Chrysene-d12	13.04	240	473966	8000.00 ppb	-0.14
88) Perylene-d12	14.54	264	550270	8000.00 ppb	-0.17

System Monitoring Compounds					
4) 2-Fluorophenol	4.32	112	138576	9077.6105280 ppb	-0.03
Spiked Amount 20.000	Range 10 - 74		Recovery = 45388.05%#		
7) Phenol-d5	5.04	99	178716	8551.3749568 ppb	-0.05
Spiked Amount 20.000	Range 10 - 63		Recovery = 42756.87%#		
23) Nitrobenzene-d5	5.94	82	170853	8686.1402634 ppb	-0.07
Spiked Amount 10.000	Range 28 - 123		Recovery = 86861.40%#		
44) 2-Fluorobiphenyl	7.81	172	382631	10342.9094905 ppb	-0.09
Spiked Amount 10.000	Range 35 - 133		Recovery = 103429.09%#		
67) 2,4,6-Tribromophenol	9.41	330	58087	9606.6388038 ppb	-0.11
Spiked Amount 20.000	Range 22 - 154		Recovery = 48033.19%#		
81) p-Terphenyl-d14	11.86	244	594476	10718.4177652 ppb	-0.13
Spiked Amount 10.000	Range 30 - 148		Recovery = 107184.18%#		

Target Compounds					Qvalue
2) Pyridine	3.44	79	179237	7619.7717125 ppb	88
3) N-Nitrosodimethylamine	3.41	42	107498	7871.3743944 ppb	92
5) Aniline	5.12	66	83383	7531.7897814 ppb	95
6) bis(2-Chloroethyl)ether	5.15	63	124534	8497.2337454 ppb	98
8) Phenol	5.05	94	183567	8605.6521700 ppb	99
9) Benzaldehyde	5.52	105	4623	558.7479567 ppb #	1
10) 2-Chlorophenol	5.22	128	159203	9659.3127492 ppb	95
11) n-Decane	5.23	41	106064	8149.8223221 ppb	96
12) 1,3-Dichlorobenzene	5.37	146	182863	10126.4448770 ppb	94
13) 1,4-Dichlorobenzene	5.44	146	182668	9998.4091084 ppb	97
14) Benzyl Alcohol	5.52	79	127554	7938.9114745 ppb	95
15) 1,2-Dichlorobenzene	5.58	146	175581	10073.7271518 ppb	95
16) bis(2-Chloroisopropyl)ethe	5.65	121	52281	9611.2227087 ppb	89
17) 2-Methylphenol	5.61	108	142728	9206.9260789 ppb	97
18) Hexachloroethane	5.91	117	77381	9889.0585421 ppb	91
19) N-Nitrosodi-n-propylamine	5.77	70	108036	7465.4674639 ppb	89
20) 3&4-Methyl phenol	5.75	107	158655	8897.1971793 ppb	98
21) Acetophenone	5.75	105	1401	N.D.	
24) Nitrobenzene	5.97	77	170710	8515.6781312 ppb	94
25) Isophorone	6.19	82	285348	8264.8945574 ppb	95
26) 2-Nitrophenol	6.28	139	89142	11067.6165153 ppb	88
27) 2,4-Dimethylphenol	6.29	107	158641	9188.2475152 ppb	96
28) bis(2-Chlorethoxy)methane	6.39	93	186276	8641.6817604 ppb	97
29) 2,4-Dichlorophenol	6.52	162	139739	10560.9899470 ppb #	85
30) Benzoic Acid	6.29	105	4863	1139.1207712 ppb #	1
31) 1,2,4-Trichlorobenzene	6.61	180	159123	10728.0406680 ppb	99
32) Naphthalene	6.71	128	514736	9681.0940465 ppb	99
33) 4-Chloroaniline	6.74	65	61478	8017.1351400 ppb	78
34) Hexachloro-1,3-butadiene	6.82	225	95015	11236.2320439 ppb	98
35) Caprolactam	7.22	113	4186	877.0720152 ppb #	20
36) 4-Chloro-3-methylphenol	7.22	107	139286	8861.6498061 ppb	96
37) 2-Methylnaphthalene	7.43	142	356418	10038.4777842 ppb	98
38) 1-Methylnaphthalene	7.54	142	331953	10110.7019079 ppb	99

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\112514B\1125B 02.D Vial: 2
Acq On : 26 Nov 2014 4:50 am Operator: 280
Sample : ICVRL SVMS 10K PPB 14K07412 Inst : BNAMS11
Misc : 8270 Primary Calibration Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Nov 26 5:40 2014 Quant Results File: S811K12AN.RES

Quant Method : C:\MSDCHEM\1\METHODS\S811K12AN.M (RTE Integrator)
Title : 8270 BNA
Last Update : Thu Nov 13 14:05:28 2014
Response via : Initial Calibration
DataAcq Meth : BNA11A

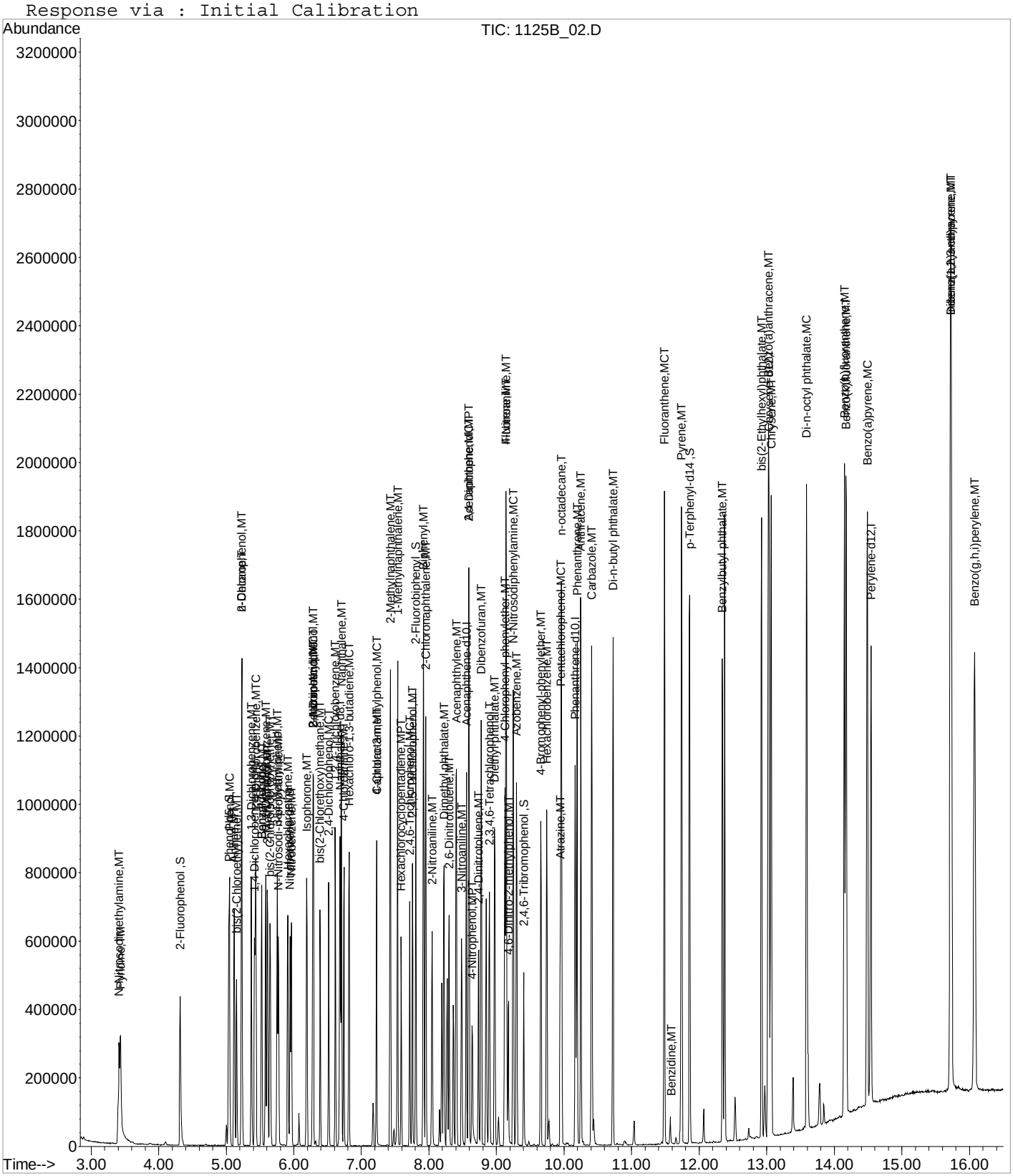
	Compound	R.T.	QIon	Response	Conc Unit		Qvalue
39)	1,2,4,5-Tetrachlorobenzene	7.60	216	128	N.D.		
41)	Hexachlorocyclopentadiene	7.59	237	90414	9680.4774693 ppb		97
42)	2,4,6-Trichlorophenol	7.72	196	98548	10470.5945717 ppb		91
43)	2,4,5-Trichlorophenol	7.75	196	105630	10266.7289090 ppb		96
45)	Biphenyl	7.92	154	434308	10279.8935143 ppb		99
46)	2-Chloronaphthalene	7.95	162	329901	10033.4459950 ppb		97
47)	2-Nitroaniline	8.05	138	105979	10096.8306525 ppb		86
48)	Acenaphthylene	8.41	152	511989	10026.7824228 ppb		99
49)	Dimethyl phthalate	8.22	163	342438	9560.5692696 ppb		93
50)	2,6-Dinitrotoluene	8.30	165	84055	10540.5725375 ppb		82
51)	3-Nitroaniline	8.48	138	95193	9987.4270507 ppb		85
52)	Acenaphthene	8.59	153	352820	10341.5025150 ppb		97
53)	2,4-Dinitrophenol	8.60	184	32220	8949.2359003 ppb	#	51
54)	Dibenzofuran	8.77	168	467435	10131.0131527 ppb		98
55)	2,4-Dinitrotoluene	8.74	165	108783	10433.8547380 ppb		92
56)	2,3,4,6-Tetrachlorophenol	8.90	232	88316	12441.2669199 ppb		89
57)	4-Nitrophenol	8.64	139	72432	9964.6887799 ppb	#	80
58)	Fluorene	9.14	166	389936	10140.1159067 ppb		98
59)	4-Chlorophenyl-phenylether	9.12	204	185004	10323.0405071 ppb		91
60)	Diethyl phthalate	8.97	149	357909	9249.2070201 ppb		98
61)	4-Nitroaniline	9.14	138	103800	11634.9255506 ppb		90
62)	Azobenzene	9.30	77	375801	8037.5489923 ppb		96
63)	Atrazine	9.94	200	11469	1134.4529839 ppb	#	31
65)	4,6-Dinitro-2-methylphenol	9.18	198	62315	10952.5585432 ppb		86
66)	N-Nitrosodiphenylamine	9.25	169	317810	9785.9948791 ppb		98
68)	4-Bromophenyl-phenylether	9.66	248	111438	9739.1534781 ppb	#	86
69)	Hexachlorobenzene	9.74	284	124430	9122.2266836 ppb		98
70)	n-octadecane	9.96	55	69560	8533.5478732 ppb		95
71)	Pentachlorophenol	9.95	266	64666	8738.5576269 ppb		97
72)	Phenanthrene	10.20	178	592013	10089.5981607 ppb		96
73)	Anthracene	10.25	178	608122	10245.2874498 ppb		100
74)	Carbazole	10.41	167	581945	10186.6756830 ppb		99
75)	Di-n-butyl phthalate	10.72	149	738254	9745.3043544 ppb		100
76)	2-nitrodiphenylamine	10.89	167	325	N.D.		
77)	Fluoranthene	11.48	202	746143	10504.0177595 ppb		100
79)	Benzidine	11.59	184	1772	280.0763921 ppb		81
80)	Pyrene	11.74	202	780705	11125.4475495 ppb		99
82)	Benzylbutyl phthalate	12.34	149	342329	9548.9275540 ppb		98
83)	3,3-Dichlorobenzidine	0.00	252	0	N.D.		
84)	Benzo(a)anthracene	13.02	228	753769	10075.8532362 ppb		97
85)	Chrysene	13.07	228	681346	10057.9503244 ppb		97
86)	bis(2-Ethylhexyl)phthalate	12.92	149	507145	9454.8766248 ppb		97
87)	Di-n-octyl phthalate	13.59	149	916421	10034.5062169 ppb		100
89)	Benzo(b)fluoranthene	14.15	252	795682	9964.1665886 ppb		98
90)	Benzo(k)fluoranthene	14.18	252	769849m	10740.1864183 ppb		
91)	Benzo(a)pyrene	14.49	252	769615	10280.5548531 ppb		97
92)	Indeno(1,2,3-cd)pyrene	15.73	276	1013496	11041.0554353 ppb		96
93)	Dibenz(a,h)anthracene	15.72	278	864408	11311.0278718 ppb		97
94)	Benzo(g,h,i)perylene	16.08	276	822604	10581.6106216 ppb		98

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\112514B\1125B 02.D Vial: 2
Acq On : 26 Nov 2014 4:50 am Operator: 280
Sample : ICVRL SVMS 10K PPB 14K07412 Inst : BNAMS11
Misc : 8270 Primary Calibration Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Nov 26 5:40 2014 Quant Results File: S811K12AN.RES

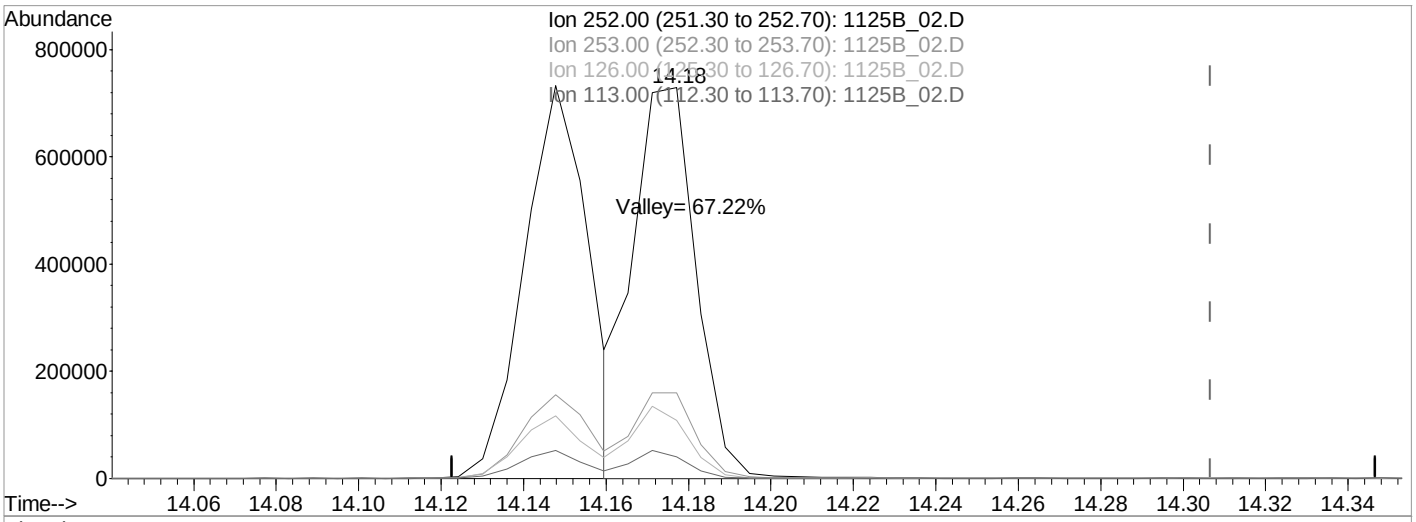
Method : C:\MSDCHEM\1\METHODS\S811K12AN.M (RTE Integrator)
Title : 8270 BNA
Last Update : Thu Nov 13 14:05:28 2014
Response via : Initial Calibration

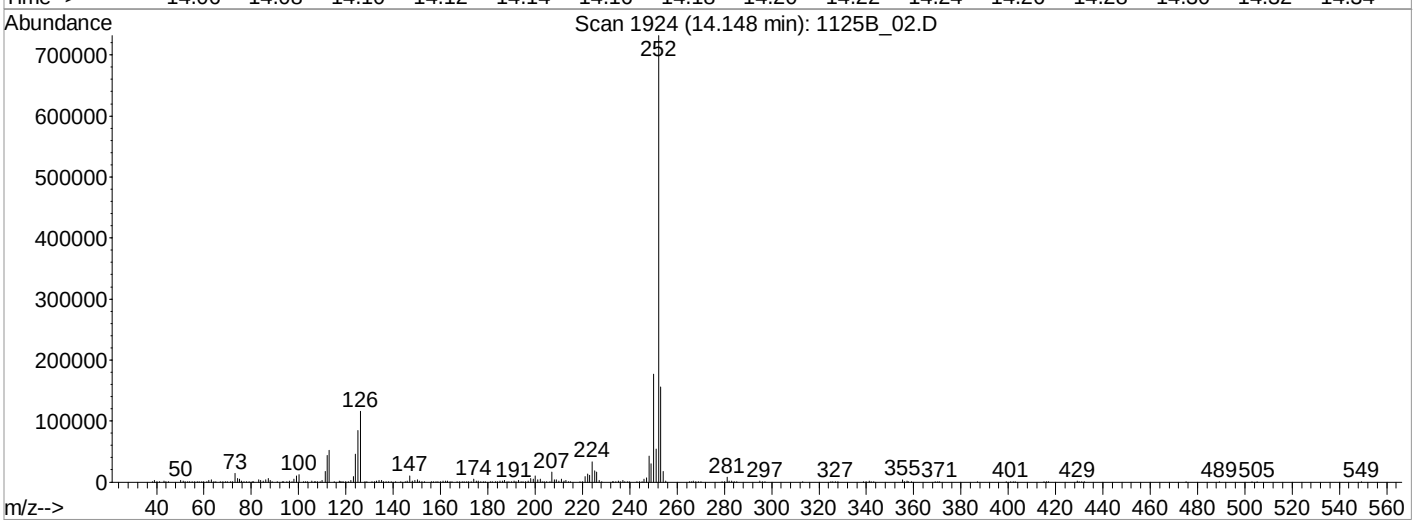


Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\112514B\1125B 02.D Vial: 2
Acq On : 26 Nov 2014 4:50 am Operator: 280
Sample : ICV SVMS 10K PPB 14K07412 Inst : BNAMS11
Misc : 8270 Primary Calibration Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Nov 26 5:40 2014 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\S811K12AN.M (RTE Integrator)
Title : 8270 BNA
Last Update : Thu Nov 13 14:05:28 2014
Response via : Multiple Level Calibration





TIC: 1125B_02.D

(89) Benzo(b)fluoranthene (MT)

14.15min (-0.159) 9964.1665886 ppb

Qvalue = 98

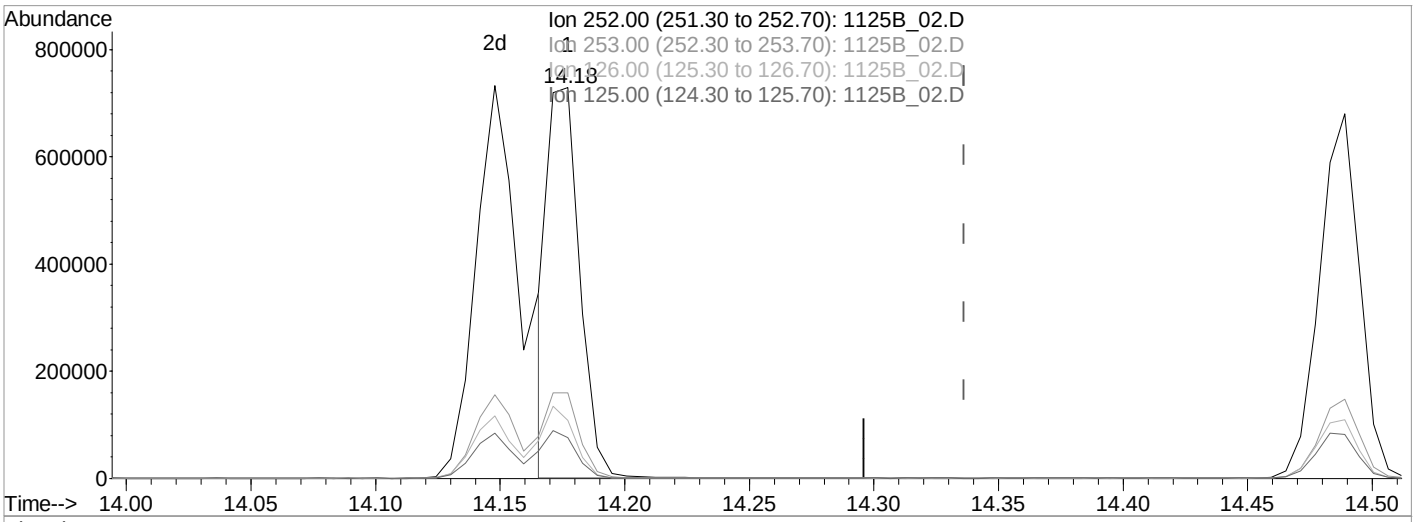
response 795682

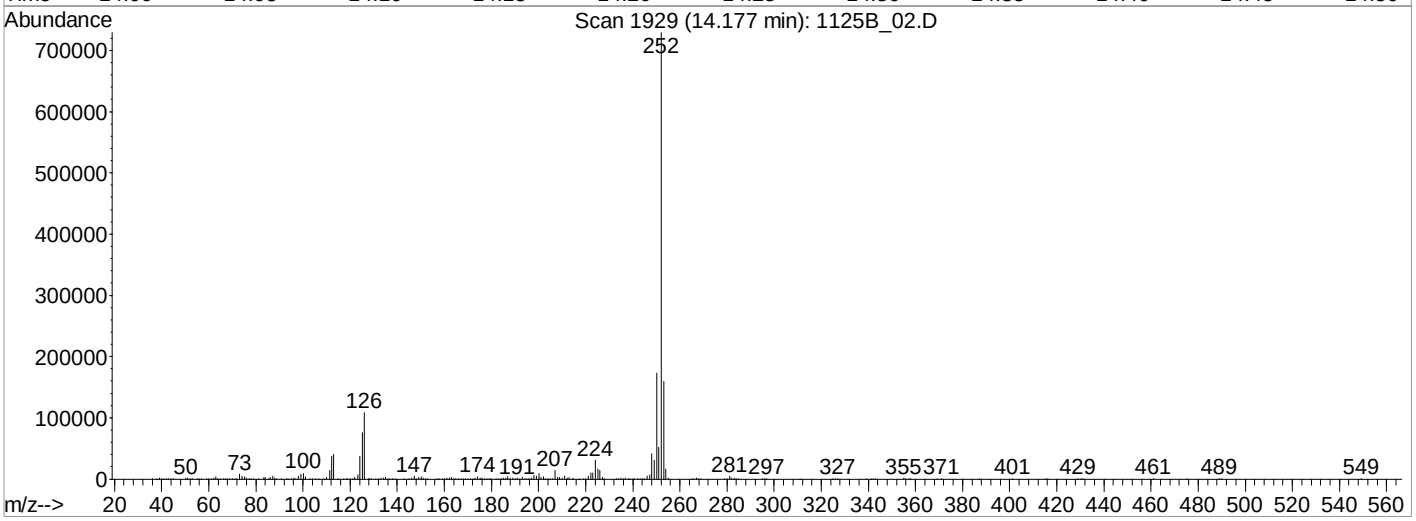
Ion	Exp%	Act%
252.00	100	100
253.00	22.30	21.19
126.00	15.50	15.86
113.00	7.80	7.37

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\112514B\1125B 02.D Vial: 2
Acq On : 26 Nov 2014 4:50 am Operator: 280
Sample : ICV SVMS 10K PPB 14K07412 Inst : BNAMS11
Misc : 8270 Primary Calibration Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Nov 26 5:40 2014 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\S811K12AN.M (RTE Integrator)
Title : 8270 BNA
Last Update : Thu Nov 13 14:05:28 2014
Response via : Multiple Level Calibration





TIC: 1125B_02.D

(90) Benzo(k)fluoranthene (MT)

14.18min (-0.159) 9049.6564190 ppb

Qvalue = 99

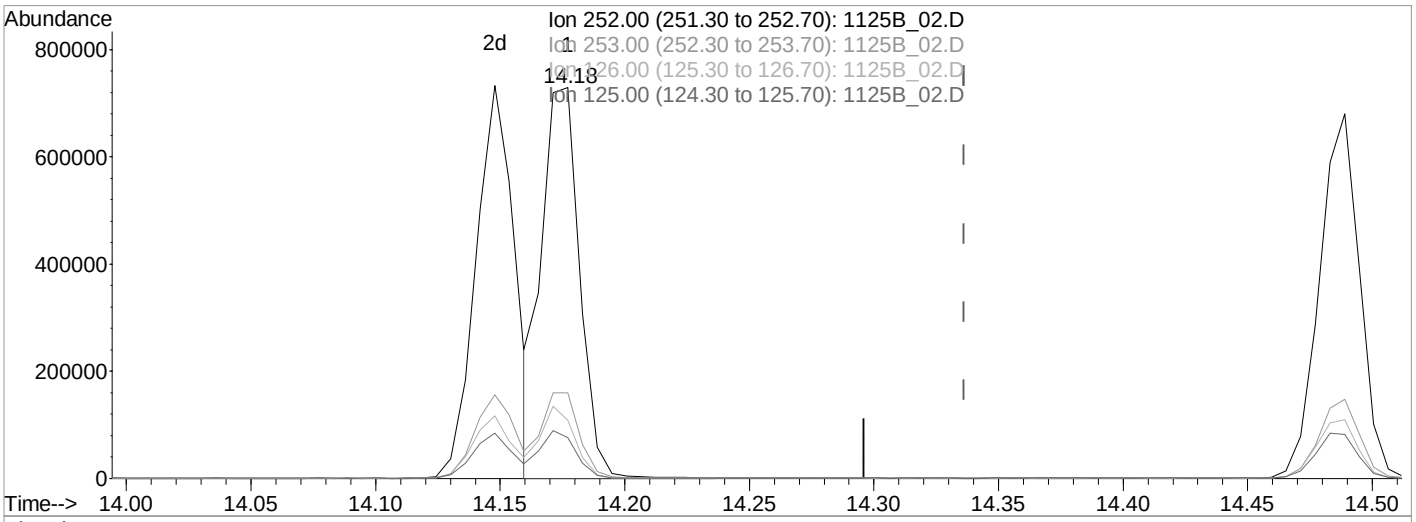
response 648673

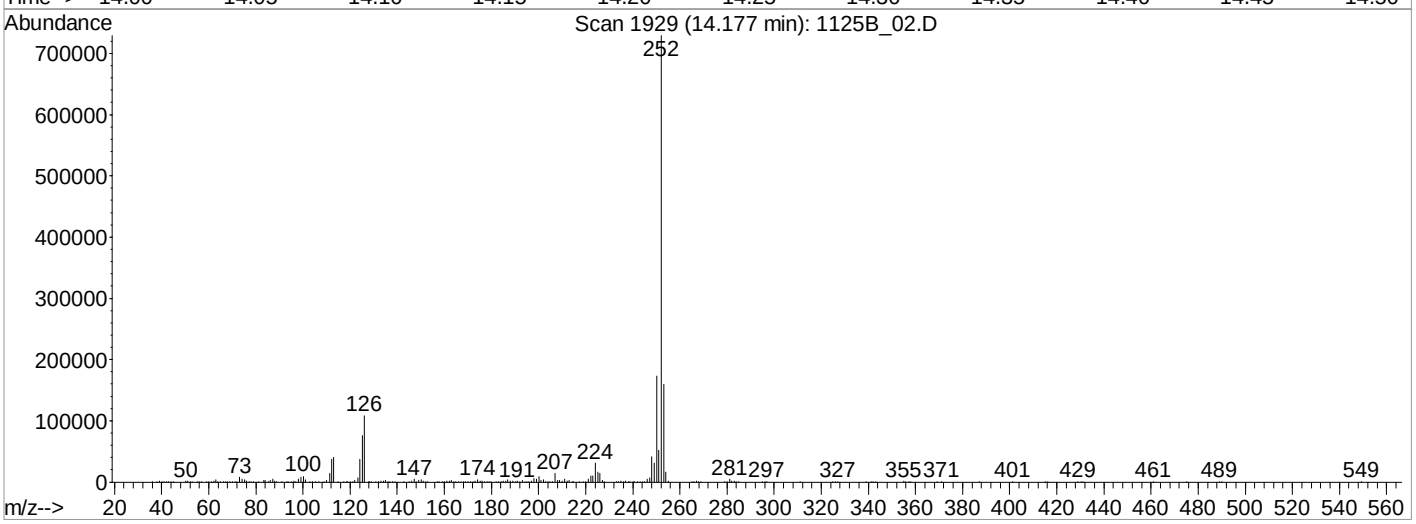
Ion	Exp%	Act%
252.00	100	100
253.00	21.90	21.70
126.00	16.00	14.85
125.00	10.50	10.35

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\112514B\1125B 02.D Vial: 2
Acq On : 26 Nov 2014 4:50 am Operator: 280
Sample : ICV SVMS 10K PPB 14K07412 Inst : BNAMS11
Misc : 8270 Primary Calibration Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Nov 26 5:40 2014 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\S811K12AN.M (RTE Integrator)
Title : 8270 BNA
Last Update : Thu Nov 13 14:05:28 2014
Response via : Multiple Level Calibration





TIC: 1125B_02.D

(90) Benzo(k)fluoranthene (MT)

14.18min (-0.159) 10740.1864183 ppb m

response 769849

Ion	Exp%	Act%
252.00	100	100
253.00	21.90	21.79
126.00	16.00	14.87
125.00	10.50	10.35

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\112514B\1125B 04.D Vial: 3
Acq On : 26 Nov 2014 5:44 am Operator: 280
Sample : ICV TCL 10K1 PPB 14G21532 Inst : BNAMS11
Misc : 8270 Primary Calibration Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Nov 26 6:00 2014 Quant Results File: S811K12AN.RES

Quant Method : C:\MSDCHEM\1\METHODS\S811K12AN.M (RTE Integrator)
Title : 8270 BNA
Last Update : Thu Nov 13 14:05:28 2014
Response via : Initial Calibration
DataAcq Meth : BNA11A

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	5.42	152	118881	8000.00 ppb	-0.06
22) Naphthalene-d8	6.68	136	504769	8000.00 ppb	-0.08
40) Acenaphthene-d10	8.55	164	313661	8000.00 ppb	-0.10
64) Phenanthrene-d10	10.17	188	563602	8000.00 ppb	-0.12
78) Chrysene-d12	13.03	240	659026	8000.00 ppb	-0.15
88) Perylene-d12	14.54	264	770048	8000.00 ppb	-0.18

System Monitoring Compounds					
4) 2-Fluorophenol	0.00	112	0	0.0000000 ppb	
Spiked Amount 20.000	Range 10 - 74		Recovery = 0.00%#		
7) Phenol-d5	0.00	99	0	0.0000000 ppb	
Spiked Amount 20.000	Range 10 - 63		Recovery = 0.00%#		
23) Nitrobenzene-d5	6.07	82	218	8.0238087 ppb	0.05
Spiked Amount 10.000	Range 28 - 123		Recovery = 80.24%		
44) 2-Fluorobiphenyl	7.88	172	78	1.5291611 ppb	-0.02
Spiked Amount 10.000	Range 35 - 133		Recovery = 15.29%#		
67) 2,4,6-Tribromophenol	0.00	330	0	0.0000000 ppb	
Spiked Amount 20.000	Range 22 - 154		Recovery = 0.00%#		
81) p-Terphenyl-d14	0.00	244	0	0.0000000 ppb	
Spiked Amount 10.000	Range 30 - 148		Recovery = 0.00%#		

Target Compounds						Qvalue
2) Pyridine	0.00	79	0	N.D.		
3) N-Nitrosodimethylamine	3.40	42	178	9.4132264 ppb	#	18
5) Aniline	0.00	66	0	N.D.		
6) bis(2-Chloroethyl)ether	5.04	63	3779	186.2236512 ppb	#	9
8) Phenol	5.05	94	144	4.8755093 ppb	#	1
9) Benzaldehyde	5.04	105	98625	8608.8945626 ppb		96
10) 2-Chlorophenol	0.00	128	0	N.D.		
11) n-Decane	5.22	41	123	6.8258001 ppb	#	45
12) 1,3-Dichlorobenzene	0.00	146	0	N.D.		
13) 1,4-Dichlorobenzene	0.00	146	0	N.D.		
14) Benzyl Alcohol	0.00	79	0	N.D.		
15) 1,2-Dichlorobenzene	0.00	146	0	N.D.		
16) bis(2-Chloroisopropyl)ethe	5.79	121	6519	865.5338433 ppb	#	1
17) 2-Methylphenol	0.00	108	0	N.D.		
18) Hexachloroethane	5.80	117	124	11.4448634 ppb	#	13
19) N-Nitrosodi-n-propylamine	0.00	70	0	N.D.		
20) 3&4-Methyl phenol	5.79	107	1292	52.3275358 ppb	#	1
21) Acetophenone	5.79	105	293920	8879.5577105 ppb		95
24) Nitrobenzene	5.79	77	239516	8649.9709231 ppb	#	66
25) Isophorone	0.00	82	0	N.D.		
26) 2-Nitrophenol	0.00	139	0	N.D.		
27) 2,4-Dimethylphenol	6.35	107	311	13.0405971 ppb	#	1
28) bis(2-Chlorethoxy)methane	6.37	93	231	7.7584182 ppb	#	1
29) 2,4-Dichlorophenol	0.00	162	0	N.D.		
30) Benzoic Acid	6.36	105	94334	7051.1320773 ppb		91
31) 1,2,4-Trichlorobenzene	6.62	180	746	36.4121332 ppb	#	86
32) Naphthalene	6.71	128	2916	39.7051880 ppb		90
33) 4-Chloroaniline	6.68	65	1607	151.7173304 ppb	#	1
34) Hexachloro-1,3-butadiene	0.00	225	0	N.D.		
35) Caprolactam	7.09	113	61718	9361.9801513 ppb		96
36) 4-Chloro-3-methylphenol	0.00	107	0	N.D.		
37) 2-Methylnaphthalene	0.00	142	0	N.D.		
38) 1-Methylnaphthalene	7.61	142	1745	38.4786637 ppb	#	38

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\112514B\1125B 04.D Vial: 3
Acq On : 26 Nov 2014 5:44 am Operator: 280
Sample : ICV TCL 10K1 PPB 14G21532 Inst : BNAMS11
Misc : 8270 Primary Calibration Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Nov 26 6:00 2014 Quant Results File: S811K12AN.RES

Quant Method : C:\MSDCHEM\1\METHODS\S811K12AN.M (RTE Integrator)
Title : 8270 BNA
Last Update : Thu Nov 13 14:05:28 2014
Response via : Initial Calibration
DataAcq Meth : BNA11A

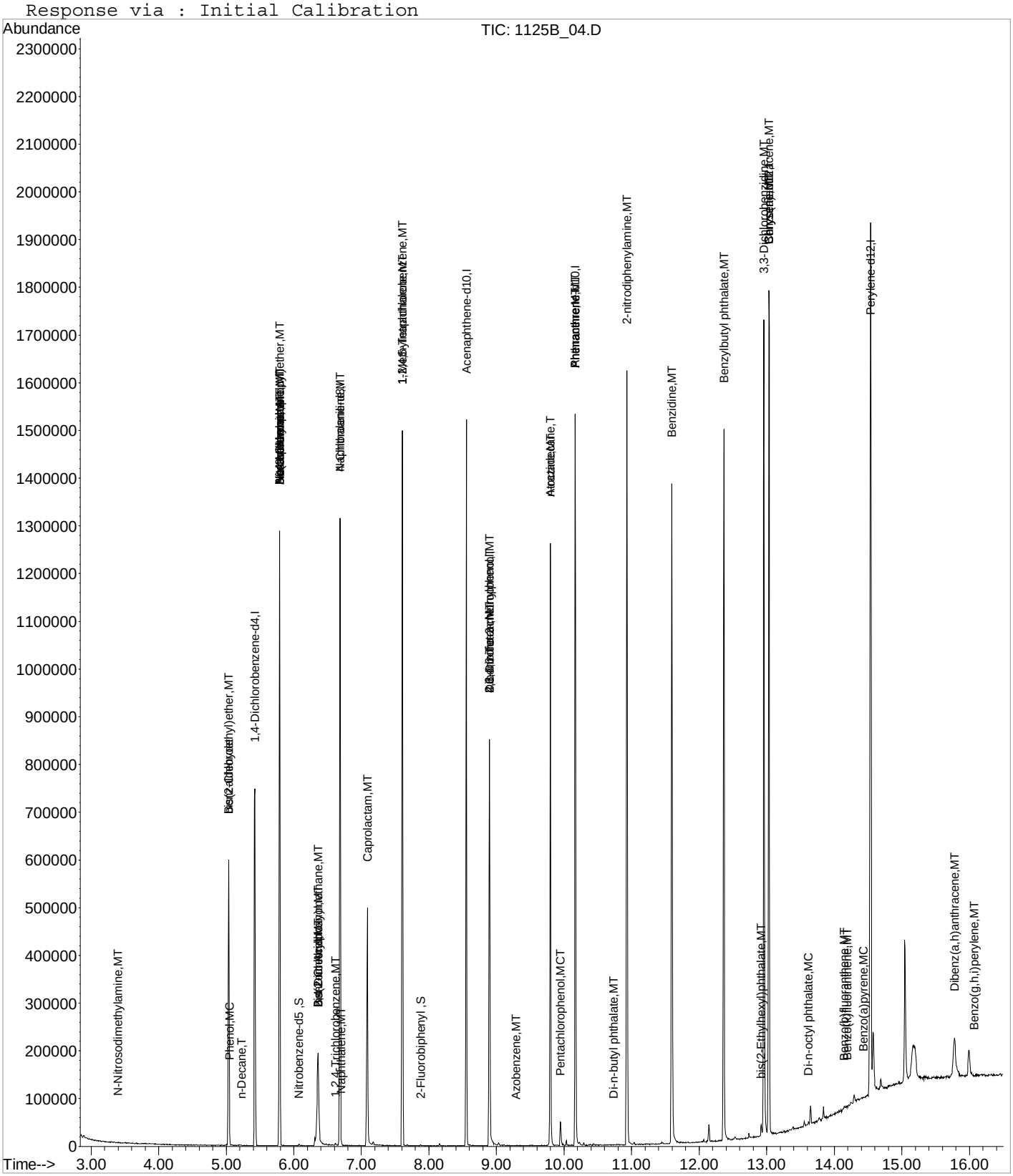
	Compound	R.T.	QIon	Response	Conc Unit		Qvalue
39)	1,2,4,5-Tetrachlorobenzene	7.61	216	234269	11674.0387644 ppb		99
41)	Hexachlorocyclopentadiene	0.00	237	0	N.D.		
42)	2,4,6-Trichlorophenol	0.00	196	0	N.D.		
43)	2,4,5-Trichlorophenol	0.00	196	0	N.D.		
45)	Biphenyl	0.00	154	0	N.D.		
46)	2-Chloronaphthalene	0.00	162	0	N.D.		
47)	2-Nitroaniline	0.00	138	0	N.D.		
48)	Acenaphthylene	0.00	152	0	N.D.		
49)	Dimethyl phthalate	0.00	163	0	N.D.		
50)	2,6-Dinitrotoluene	0.00	165	0	N.D.		
51)	3-Nitroaniline	0.00	138	0	N.D.		
52)	Acenaphthene	0.00	153	0	N.D.		
53)	2,4-Dinitrophenol	0.00	184	0	N.D.		
54)	Dibenzofuran	8.90	168	29966	471.0385889 ppb	#	45
55)	2,4-Dinitrotoluene	0.00	165	0	N.D.		
56)	2,3,4,6-Tetrachlorophenol	8.90	232	104415	10668.0285788 ppb		92
57)	4-Nitrophenol	0.00	139	0	N.D.		
58)	Fluorene	0.00	166	0	N.D.		
59)	4-Chlorophenyl-phenylether	0.00	204	0	N.D.		
60)	Diethyl phthalate	0.00	149	0	N.D.		
61)	4-Nitroaniline	0.00	138	0	N.D.		
62)	Azobenzene	9.29	77	64	0.9927542 ppb	#	28
63)	Atrazine	9.80	200	151726	10884.7138999 ppb		90
65)	4,6-Dinitro-2-methylphenol	8.90	198	4206	1540.5071533 ppb	#	39
66)	N-Nitrosodiphenylamine	0.00	169	0	N.D.		
68)	4-Bromophenyl-phenylether	0.00	248	0	N.D.		
69)	Hexachlorobenzene	0.00	284	0	N.D.		
70)	n-octadecane	9.80	55	14741	1312.1774350 ppb	#	56
71)	Pentachlorophenol	9.95	266	7312	716.9609505 ppb		95
72)	Phenanthrene	10.17	178	257	3.1781275 ppb	#	1
73)	Anthracene	10.17	178	257	3.1416812 ppb	#	11
74)	Carbazole	0.00	167	0	N.D.		
75)	Di-n-butyl phthalate	10.73	149	257	2.4616045 ppb		78
76)	2-nitrodiphenylamine	10.93	167	213033	10462.1742281 ppb		94
77)	Fluoranthene	0.00	202	0	N.D.		
79)	Benzidine	11.60	184	510968	10152.4787127 ppb		99
80)	Pyrene	0.00	202	0	N.D.		
82)	Benzylbutyl phthalate	12.37	149	2761	55.3887996 ppb	#	1
83)	3,3-Dichlorobenzidine	12.96	252	394124	10327.5894834 ppb		97
84)	Benzo(a)anthracene	13.04	228	1913	18.3909079 ppb	#	1
85)	Chrysene	13.04	228	1913	20.3096007 ppb		75
86)	bis(2-Ethylhexyl)phthalate	12.92	149	3520	47.1966335 ppb		97
87)	Di-n-octyl phthalate	13.62	149	17182	135.3067082 ppb		69
89)	Benzo(b)fluoranthene	14.14	252	354	3.1678364 ppb		70
90)	Benzo(k)fluoranthene	14.19	252	58	0.5782189 ppb	#	1
91)	Benzo(a)pyrene	14.43	252	360	3.4363989 ppb		76
92)	Indeno(1,2,3-cd)pyrene	0.00	276	0	N.D.		
93)	Dibenz(a,h)anthracene	15.77	278	89	0.8322070 ppb	#	52
94)	Benzo(g,h,i)perylene	16.07	276	72	0.6618377 ppb	#	67

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\112514B\1125B 04.D Vial: 3
Acq On : 26 Nov 2014 5:44 am Operator: 280
Sample : ICV TCL 10K1 PPB 14G21532 Inst : BNAMS11
Misc : 8270 Primary Calibration Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Nov 26 6:00 2014 Quant Results File: S811K12AN.RES

Method : C:\MSDCHEM\1\METHODS\S811K12AN.M (RTE Integrator)
Title : 8270 BNA
Last Update : Thu Nov 13 14:05:28 2014
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\112514B\1125B 05.D Vial: 71
Acq On : 26 Nov 2014 6:14 am Operator: 280
Sample : LCS 1x WG756857 100-0.5 Inst : BNAMS11
Misc : water 14K08418/14K19022 Multiplr: 0.01
MS Integration Params: RTEINT.P
Quant Time: Nov 26 14:33 2014 Quant Results File: S811K12AN.RES

Quant Method : C:\MSDCHEM\1\METHODS\S811K12AN.M (RTE Integrator)
Title : 8270 BNA
Last Update : Thu Nov 13 14:05:28 2014
Response via : Initial Calibration
DataAcq Meth : BNA11A

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	5.42	152	146232	8000.00 ppb	-0.06
22) Naphthalene-d8	6.68	136	637246	8000.00 ppb	-0.08
40) Acenaphthene-d10	8.55	164	415001	8000.00 ppb	-0.10
64) Phenanthrene-d10	10.17	188	738847	8000.00 ppb	-0.12
78) Chrysene-d12	13.04	240	879585	8000.00 ppb	-0.14
88) Perylene-d12	14.54	264	1017882	8000.00 ppb	-0.18

System Monitoring Compounds					
4) 2-Fluorophenol	4.32	112	44188	8.4975988 ppb	-0.03
Spiked Amount 20.000	Range 10 - 74		Recovery = 42.49%		
7) Phenol-d5	5.04	99	39912	5.6064036 ppb	-0.05
Spiked Amount 20.000	Range 10 - 63		Recovery = 28.03%		
23) Nitrobenzene-d5	5.94	82	34550	5.0364866 ppb	-0.07
Spiked Amount 10.000	Range 28 - 123		Recovery = 50.36%		
44) 2-Fluorobiphenyl	7.81	172	83568	6.1912740 ppb	-0.09
Spiked Amount 10.000	Range 35 - 133		Recovery = 61.91%		
67) 2,4,6-Tribromophenol	9.41	330	27018	12.3660014 ppb	-0.11
Spiked Amount 20.000	Range 22 - 154		Recovery = 61.83%		
81) p-Terphenyl-d14	11.86	244	118381	5.7506606 ppb	-0.13
Spiked Amount 10.000	Range 30 - 148		Recovery = 57.51%		

Target Compounds					Qvalue
2) Pyridine	3.44	79	57526	7.1793781 ppb	86
3) N-Nitrosodimethylamine	3.41	42	42402	9.1147525 ppb	85
5) Aniline	5.12	66	43557	11.5501330 ppb	93
6) bis(2-Chloroethyl)ether	5.15	63	69097	13.8406718 ppb	94
8) Phenol	5.05	94	58546	8.0573969 ppb	96
9) Benzaldehyde	5.04	105	59787	21.2132480 ppb	95
10) 2-Chlorophenol	5.23	128	89206	15.8890305 ppb	88
11) n-Decane	5.23	41	58642	13.2280938 ppb	95
12) 1,3-Dichlorobenzene	5.37	146	88752	14.4283830 ppb	95
13) 1,4-Dichlorobenzene	5.44	146	88926	14.2891218 ppb	98
14) Benzyl Alcohol	5.52	79	69533	12.7047521 ppb	95
15) 1,2-Dichlorobenzene	5.58	146	85670	14.4294502 ppb	96
16) bis(2-Chloroisopropyl)ethe	5.65	121	29393	15.8630620 ppb	89
17) 2-Methylphenol	5.61	108	75101	14.2219631 ppb	96
18) Hexachloroethane	5.91	117	37084	13.9128318 ppb	92
19) N-Nitrosodi-n-propylamine	5.77	70	65909	13.3703133 ppb	87
20) 3&4-Methyl phenol	5.75	107	92045	15.1533274 ppb	90
21) Acetophenone	5.79	105	122551	15.0493966 ppb	95
24) Nitrobenzene	5.97	77	99646	14.2526476 ppb	92
25) Isophorone	6.19	82	196608	16.3282286 ppb	99
26) 2-Nitrophenol	6.28	139	52602	18.7261884 ppb	90
27) 2,4-Dimethylphenol	6.29	107	98368	16.3360288 ppb	95
28) bis(2-Chlorethoxy)methane	6.39	93	110433	14.6897917 ppb	96
29) 2,4-Dichlorophenol	6.52	162	86956	18.8435166 ppb	89
30) Benzoic Acid	6.29	105	4834	4.6914819 ppb #	1
31) 1,2,4-Trichlorobenzene	6.62	180	79988	15.4627842 ppb	95
32) Naphthalene	6.71	128	277171	14.9473116 ppb	99
33) 4-Chloroaniline	6.74	65	38595	14.4313155 ppb	82
34) Hexachloro-1,3-butadiene	6.82	225	46977	15.9290255 ppb	99
35) Caprolactam	7.08	113	8162	4.9035208 ppb	97
36) 4-Chloro-3-methylphenol	7.22	107	91580	16.7064109 ppb	97
37) 2-Methylnaphthalene	7.43	142	196606	15.8774372 ppb	98
38) 1-Methylnaphthalene	7.54	142	205730	17.9670898 ppb	98

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\112514B\1125B 05.D Vial: 71
Acq On : 26 Nov 2014 6:14 am Operator: 280
Sample : LCS 1x WG756857 100-0.5 Inst : BNAMS11
Misc : water 14K08418/14K19022 Multiplr: 0.01
MS Integration Params: RTEINT.P
Quant Time: Nov 26 14:33 2014 Quant Results File: S811K12AN.RES

Quant Method : C:\MSDCHEM\1\METHODS\S811K12AN.M (RTE Integrator)
Title : 8270 BNA
Last Update : Thu Nov 13 14:05:28 2014
Response via : Initial Calibration
DataAcq Meth : BNA11A

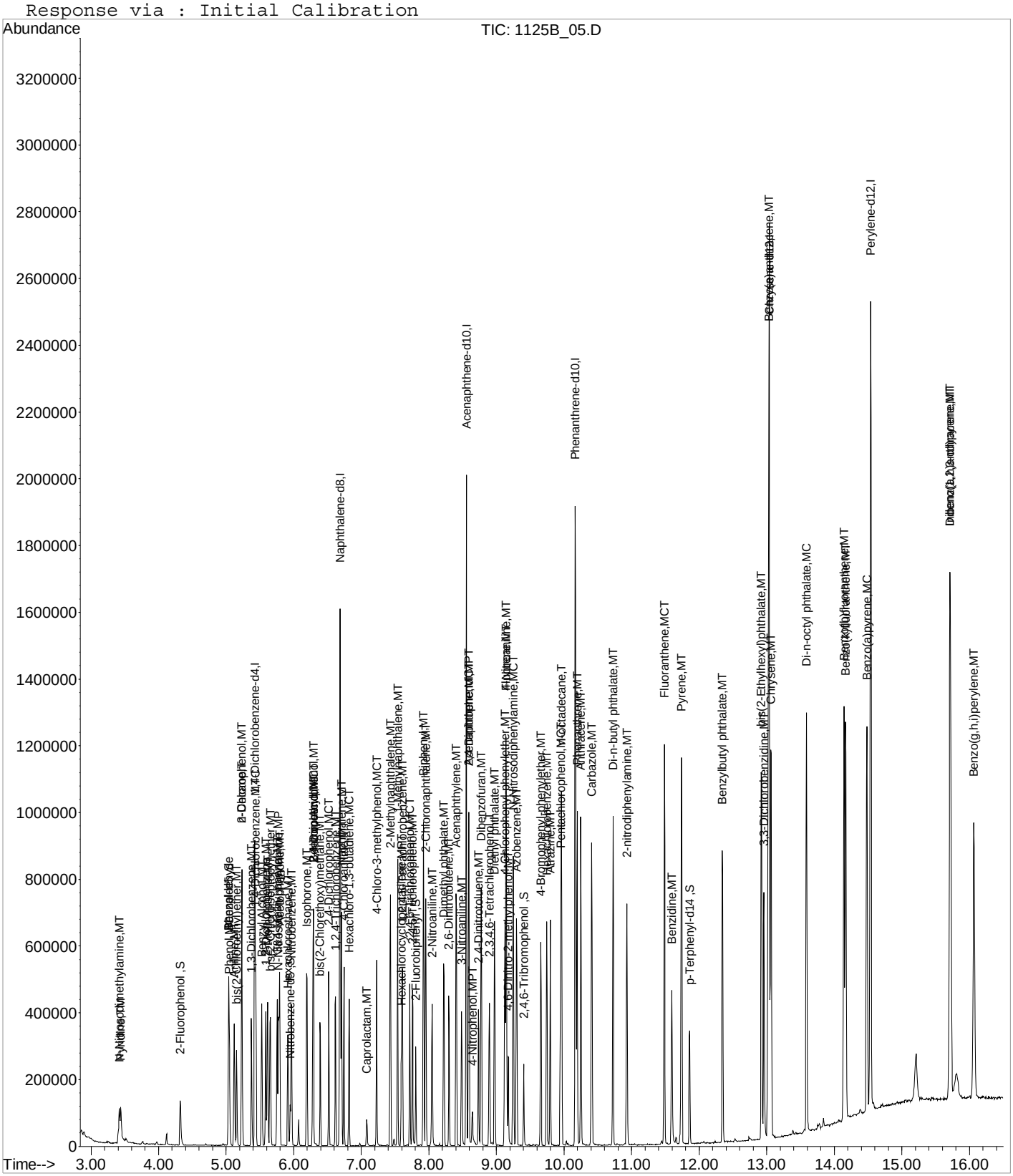
	Compound	R.T.	QIon	Response	Conc Unit		Qvalue
39)	1,2,4,5-Tetrachlorobenzene	7.61	216	89284	17.6212011 ppb		99
41)	Hexachlorocyclopentadiene	7.59	237	33232	9.7520298 ppb		96
42)	2,4,6-Trichlorophenol	7.72	196	63544	18.5044220 ppb		94
43)	2,4,5-Trichlorophenol	7.75	196	71165	18.9578339 ppb		97
45)	Biphenyl	7.92	154	272125	17.6537379 ppb		98
46)	2-Chloronaphthalene	7.95	162	199841	16.6582173 ppb		98
47)	2-Nitroaniline	8.05	138	71705	18.7237201 ppb		87
48)	Acenaphthylene	8.40	152	332482	17.8462324 ppb		99
49)	Dimethyl phthalate	8.22	163	228130	17.4566798 ppb		97
50)	2,6-Dinitrotoluene	8.30	165	54250	18.6456632 ppb	#	77
51)	3-Nitroaniline	8.48	138	61278	17.6210033 ppb		91
52)	Acenaphthene	8.59	153	216078	17.3587498 ppb		96
53)	2,4-Dinitrophenol	8.60	184	11971	17.5400415 ppb	#	52
54)	Dibenzofuran	8.77	168	296456	17.6104049 ppb		98
55)	2,4-Dinitrotoluene	8.73	165	70849	18.6249418 ppb		96
56)	2,3,4,6-Tetrachlorophenol	8.90	232	52735	20.3611176 ppb		90
57)	4-Nitrophenol	8.64	139	24081	9.0799870 ppb	#	84
58)	Fluorene	9.14	166	248558	17.7155556 ppb		98
59)	4-Chlorophenyl-phenylether	9.12	204	114026	17.4384487 ppb		94
60)	Diethyl phthalate	8.97	149	235166	16.6565042 ppb		98
61)	4-Nitroaniline	9.14	138	66427	20.4074311 ppb		92
62)	Azobenzene	9.30	77	240612	14.1045888 ppb		95
63)	Atrazine	9.80	200	75164	20.3773769 ppb		90
65)	4,6-Dinitro-2-methylphenol	9.18	198	39149	22.4860334 ppb		88
66)	N-Nitrosodiphenylamine	9.25	169	205786	17.5362541 ppb		97
68)	4-Bromophenyl-phenylether	9.65	248	71993	17.4125249 ppb		97
69)	Hexachlorobenzene	9.74	284	82059	16.6489005 ppb		98
70)	n-octadecane	9.96	55	45362	15.4008903 ppb		95
71)	Pentachlorophenol	9.95	266	39067	14.6102416 ppb		97
72)	Phenanthrene	10.20	178	380494	17.9462626 ppb		97
73)	Anthracene	10.25	178	389106	18.1419907 ppb		99
74)	Carbazole	10.41	167	370792	17.9624045 ppb		99
75)	Di-n-butyl phthalate	10.72	149	471829	17.2368462 ppb		99
76)	2-nitrodiphenylamine	10.93	167	96282	18.0346693 ppb		91
77)	Fluoranthene	11.48	202	477456	18.6016005 ppb		99
79)	Benzidine	11.60	184	186842	14.7505225 ppb		100
80)	Pyrene	11.74	202	493292	18.9397386 ppb		99
82)	Benzylbutyl phthalate	12.34	149	218334	16.4086049 ppb		97
83)	3,3-Dichlorobenzidine	12.96	252	179194	17.5907472 ppb		97
84)	Benzo(a)anthracene	13.02	228	490208	17.6548216 ppb		98
85)	Chrysene	13.07	228	442495	17.5990620 ppb		97
86)	bis(2-Ethylhexyl)phthalate	12.92	149	323467	16.2477444 ppb		98
87)	Di-n-octyl phthalate	13.59	149	584734	17.2503813 ppb		99
89)	Benzo(b)fluoranthene	14.14	252	507418	17.1757505 ppb		98
90)	Benzo(k)fluoranthene	14.17	252	486529m	18.3469302 ppb		
91)	Benzo(a)pyrene	14.48	252	496431	17.9246354 ppb		97
92)	Indeno(1,2,3-cd)pyrene	15.72	276	636892	18.7543817 ppb		99
93)	Dibenz(a,h)anthracene	15.71	278	540255	19.1086716 ppb		99
94)	Benzo(g,h,i)perylene	16.07	276	527450	18.3396339 ppb		96

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\112514B\1125B 05.D Vial: 71
Acq On : 26 Nov 2014 6:14 am Operator: 280
Sample : LCS 1x WG756857 100-0.5 Inst : BNAMS11
Misc : water 14K08418/14K19022 Multiplr: 0.01
MS Integration Params: RTEINT.P
Quant Time: Nov 26 14:33 2014 Quant Results File: S811K12AN.RES

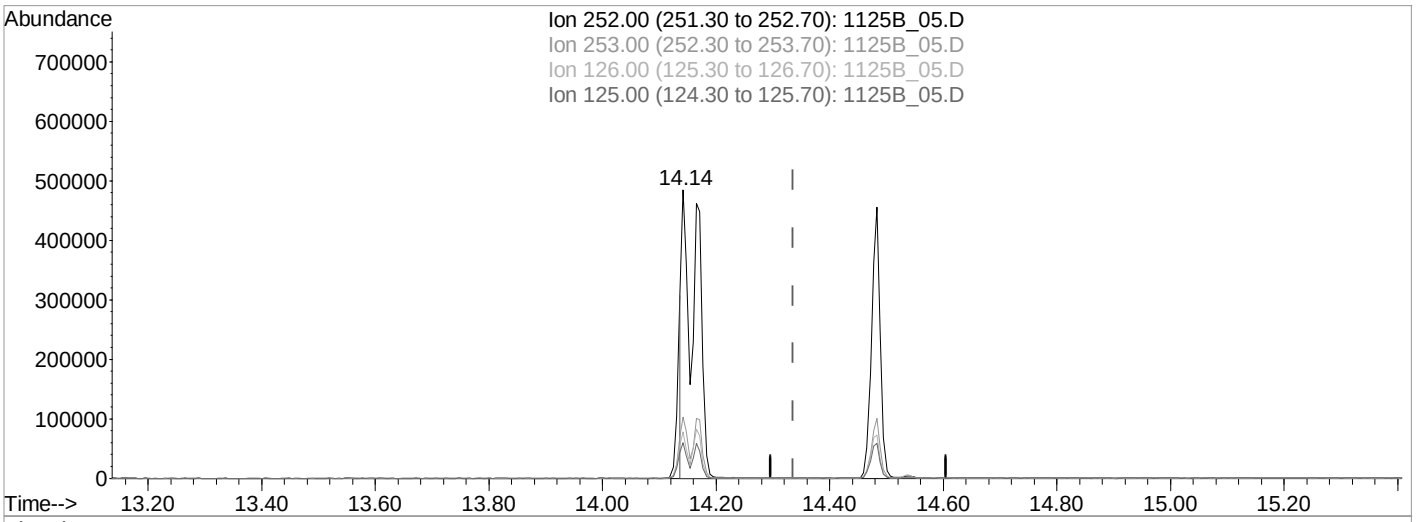
Method : C:\MSDCHEM\1\METHODS\S811K12AN.M (RTE Integrator)
Title : 8270 BNA
Last Update : Thu Nov 13 14:05:28 2014
Response via : Initial Calibration

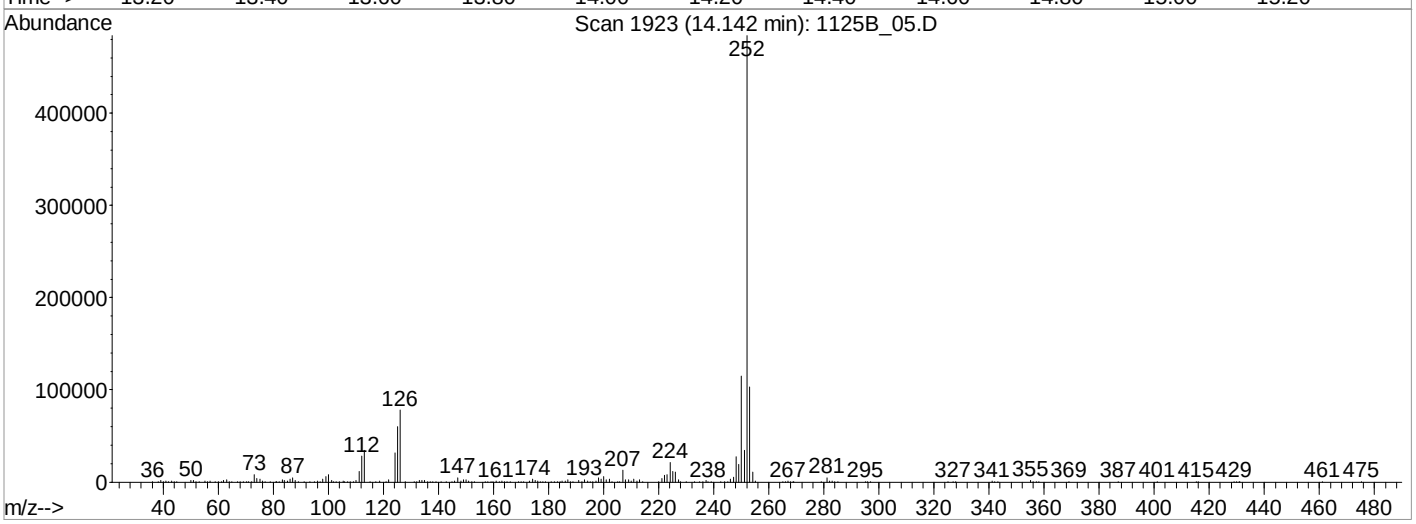


Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\112514B\1125B 05.D Vial: 71
Acq On : 26 Nov 2014 6:14 am Operator: 280
Sample : LCS 1x WG756857 100-0.5 Inst : BNAMS11
Misc : water 14K08418/14K19022 Multiplr: 0.01
MS Integration Params: RTEINT.P
Quant Time: Nov 26 9:27 2014 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\S811K12AN.M (RTE Integrator)
Title : 8270 BNA
Last Update : Thu Nov 13 14:05:28 2014
Response via : Multiple Level Calibration





TIC: 1125B_05.D

(90) Benzo(k)fluoranthene (MT)

14.14min (-0.194) 31.9186257 ppb

Qvalue = 98

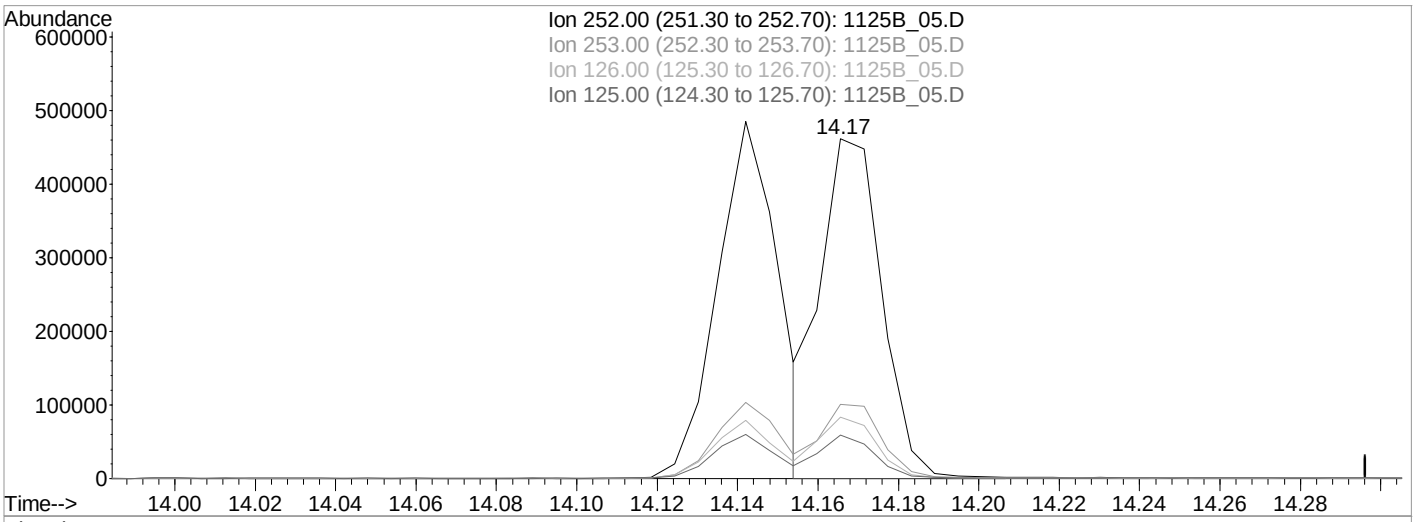
response 846427

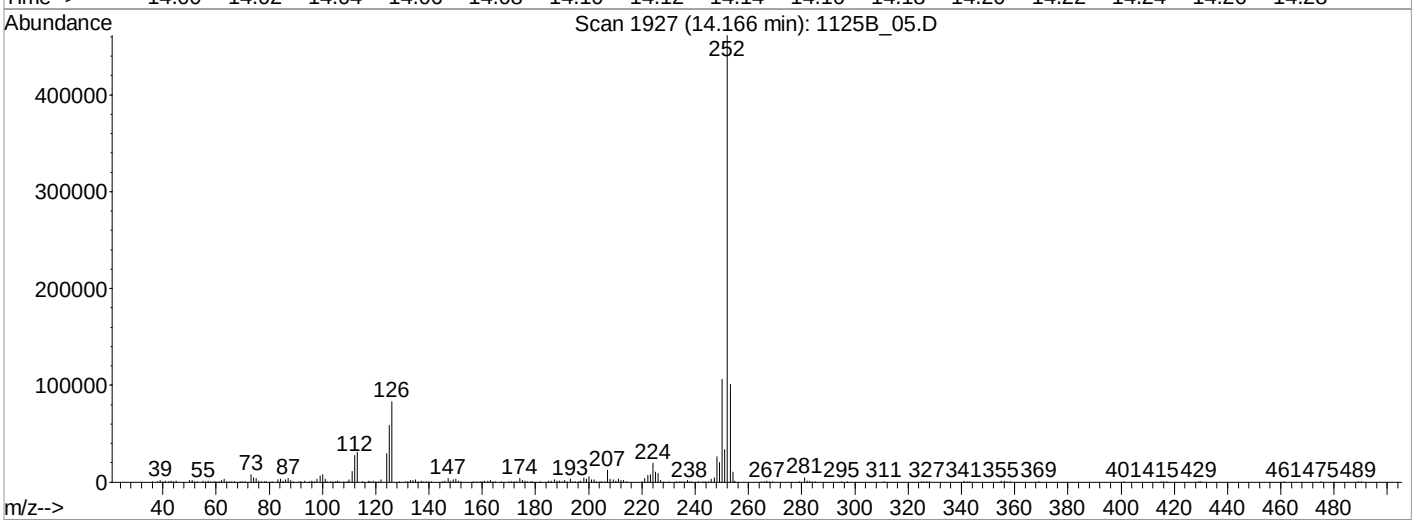
Ion	Exp%	Act%
252.00	100	100
253.00	21.90	21.17
126.00	16.00	16.18
125.00	10.50	12.34

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\112514B\1125B 05.D Vial: 71
Acq On : 26 Nov 2014 6:14 am Operator: 280
Sample : LCS 1x WG756857 100-0.5 Inst : BNAMS11
Misc : water 14K08418/14K19022 Multiplr: 0.01
MS Integration Params: RTEINT.P
Quant Time: Nov 26 14:33 2014 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\S811K12AN.M (RTE Integrator)
Title : 8270 BNA
Last Update : Thu Nov 13 14:05:28 2014
Response via : Multiple Level Calibration





TIC: 1125B_05.D

(90) Benzo(k)fluoranthene (MT)

14.17min (-0.171) 18.3469302 ppb m

response 486529

Ion	Exp%	Act%
252.00	100	100
253.00	21.90	21.86
126.00	16.00	17.93
125.00	10.50	12.68

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\112514B\1125B 06.D Vial: 72
Acq On : 26 Nov 2014 6:35 am Operator: 280
Sample : LCSD 1x WG756857 100-0.5 Inst : BNAMS11
Misc : water 14K08418/14K19022 Multiplr: 0.01
MS Integration Params: RTEINT.P
Quant Time: Nov 26 9:27 2014 Quant Results File: S811K12AN.RES

Quant Method : C:\MSDCHEM\1\METHODS\S811K12AN.M (RTE Integrator)
Title : 8270 BNA
Last Update : Thu Nov 13 14:05:28 2014
Response via : Initial Calibration
DataAcq Meth : BNA11A

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	5.43	152	137521	8000.00 ppb	-0.05
22) Naphthalene-d8	6.69	136	609816	8000.00 ppb	-0.08
40) Acenaphthene-d10	8.56	164	394159	8000.00 ppb	-0.09
64) Phenanthrene-d10	10.17	188	706205	8000.00 ppb	-0.11
78) Chrysene-d12	13.03	240	837826	8000.00 ppb	-0.15
88) Perylene-d12	14.52	264	961493	8000.00 ppb	-0.19

System Monitoring Compounds					
4) 2-Fluorophenol	4.33	112	39338	8.0441017 ppb	-0.02
Spiked Amount 20.000	Range 10 - 74		Recovery = 40.22%		
7) Phenol-d5	5.05	99	37055	5.5347892 ppb	-0.04
Spiked Amount 20.000	Range 10 - 63		Recovery = 27.67%		
23) Nitrobenzene-d5	5.95	82	32680	4.9781730 ppb	-0.06
Spiked Amount 10.000	Range 28 - 123		Recovery = 49.78%		
44) 2-Fluorobiphenyl	7.81	172	77279	6.0280827 ppb	-0.09
Spiked Amount 10.000	Range 35 - 133		Recovery = 60.28%		
67) 2,4,6-Tribromophenol	9.41	330	25000	11.9712590 ppb	-0.11
Spiked Amount 20.000	Range 22 - 154		Recovery = 59.86%		
81) p-Terphenyl-d14	11.86	244	111664	5.6947268 ppb	-0.13
Spiked Amount 10.000	Range 30 - 148		Recovery = 56.95%		

Target Compounds						Qvalue
2) Pyridine	3.45	79	54301	7.2061595 ppb	#	82
3) N-Nitrosodimethylamine	3.42	42	40987	9.3686727 ppb		88
5) Aniline	5.13	66	41024	11.5675245 ppb		96
6) bis(2-Chloroethyl)ether	5.17	63	66886	14.2464482 ppb		97
8) Phenol	5.06	94	53997	7.9020643 ppb		96
9) Benzaldehyde	5.05	105	54284	20.4807401 ppb		95
10) 2-Chlorophenol	5.24	128	81387	15.4145827 ppb		98
11) n-Decane	5.24	41	54495	13.0712929 ppb		96
12) 1,3-Dichlorobenzene	5.38	146	78443	13.5602316 ppb		96
13) 1,4-Dichlorobenzene	5.45	146	80794	13.8047736 ppb		99
14) Benzyl Alcohol	5.54	79	66380	12.8969161 ppb		96
15) 1,2-Dichlorobenzene	5.60	146	78157	13.9978810 ppb		97
16) bis(2-Chloroisopropyl)ethe	5.67	121	27389	15.7178334 ppb		88
17) 2-Methylphenol	5.62	108	69804	14.0561873 ppb		96
18) Hexachloroethane	5.92	117	33757	13.4668556 ppb		96
19) N-Nitrosodi-n-propylamine	5.78	70	63146	13.6212231 ppb		87
20) 3&4-Methyl phenol	5.76	107	86638	15.1666485 ppb		87
21) Acetophenone	5.80	105	115417	15.0711159 ppb		96
24) Nitrobenzene	5.97	77	97373	14.5540054 ppb		96
25) Isophorone	6.20	82	186583	16.1926624 ppb		96
26) 2-Nitrophenol	6.29	139	46932	17.4592063 ppb		92
27) 2,4-Dimethylphenol	6.30	107	93618	16.2465186 ppb		98
28) bis(2-Chlorethoxy)methane	6.40	93	104579	14.5368248 ppb		97
29) 2,4-Dichlorophenol	6.52	162	79361	17.9712314 ppb		92
30) Benzoic Acid	6.30	105	3563	4.3851859 ppb	#	1
31) 1,2,4-Trichlorobenzene	6.62	180	72660	14.6779888 ppb		98
32) Naphthalene	6.71	128	260433	14.6764026 ppb		99
33) 4-Chloroaniline	6.75	65	37808	14.7729383 ppb		89
34) Hexachloro-1,3-butadiene	6.82	225	41314	14.6389349 ppb		98
35) Caprolactam	7.09	113	7806	4.9005890 ppb		95
36) 4-Chloro-3-methylphenol	7.23	107	86129	16.4187552 ppb		96
37) 2-Methylnaphthalene	7.44	142	182044	15.3627269 ppb		99
38) 1-Methylnaphthalene	7.54	142	189306	17.2763818 ppb		99

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\112514B\1125B 06.D Vial: 72
Acq On : 26 Nov 2014 6:35 am Operator: 280
Sample : LCSD 1x WG756857 100-0.5 Inst : BNAMS11
Misc : water 14K08418/14K19022 Multiplr: 0.01
MS Integration Params: RTEINT.P
Quant Time: Nov 26 9:27 2014 Quant Results File: S811K12AN.RES

Quant Method : C:\MSDCHEM\1\METHODS\S811K12AN.M (RTE Integrator)
Title : 8270 BNA
Last Update : Thu Nov 13 14:05:28 2014
Response via : Initial Calibration
DataAcq Meth : BNA11A

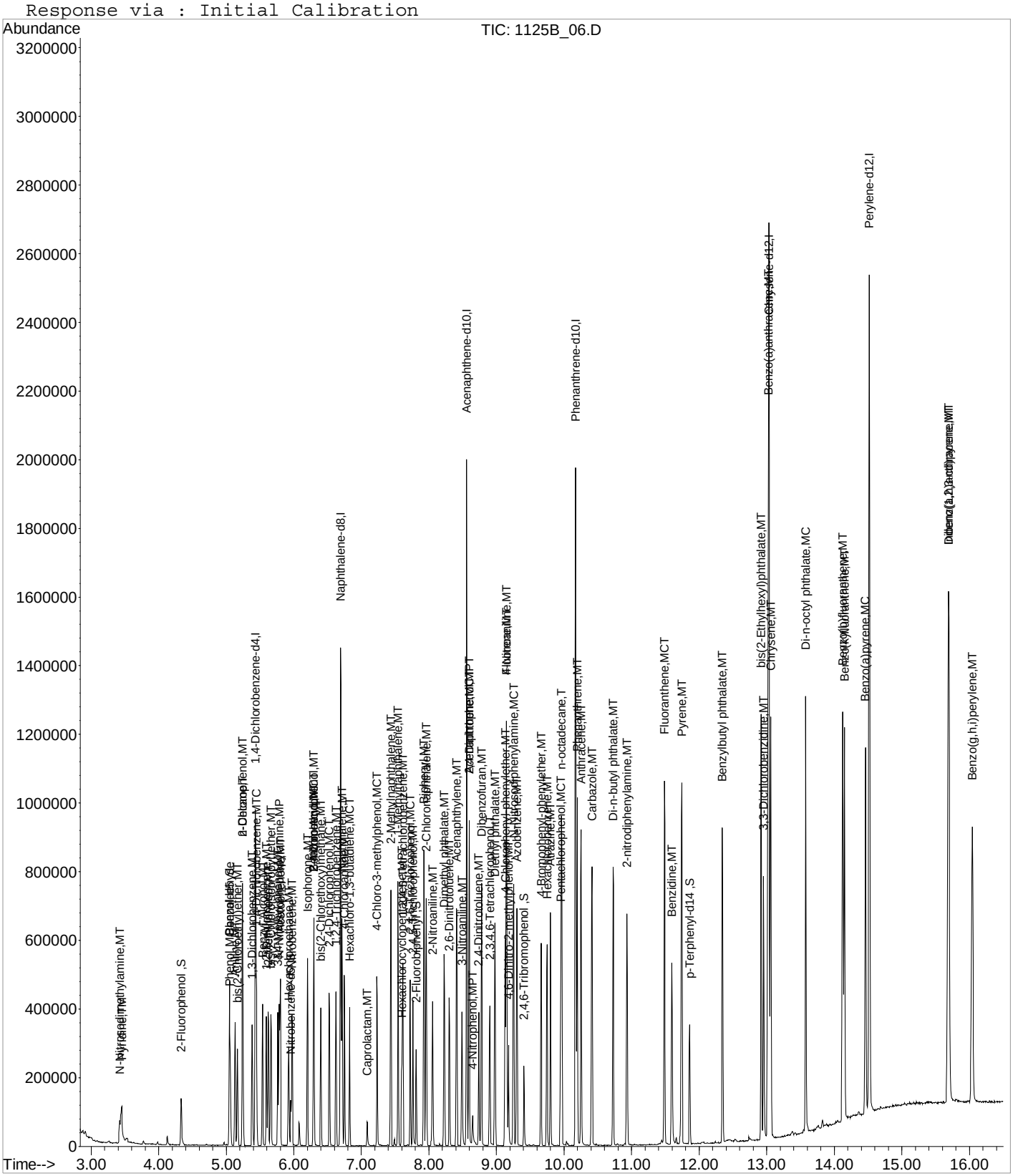
	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
39)	1,2,4,5-Tetrachlorobenzene	7.61	216	82421	16.9984003	ppb		98
41)	Hexachlorocyclopentadiene	7.60	237	28775	8.8906102	ppb		97
42)	2,4,6-Trichlorophenol	7.72	196	58239	17.8563454	ppb		94
43)	2,4,5-Trichlorophenol	7.77	196	66407	18.6257520	ppb		92
45)	Biphenyl	7.92	154	250325	17.0981905	ppb		99
46)	2-Chloronaphthalene	7.96	162	187723	16.4755193	ppb		97
47)	2-Nitroaniline	8.05	138	67317	18.5073888	ppb		89
48)	Acenaphthylene	8.41	152	308092	17.4115134	ppb		100
49)	Dimethyl phthalate	8.22	163	212423	17.1142739	ppb		97
50)	2,6-Dinitrotoluene	8.30	165	50430	18.2492389	ppb		96
51)	3-Nitroaniline	8.49	138	57077	17.2808414	ppb		86
52)	Acenaphthene	8.60	153	203445	17.2080876	ppb		95
53)	2,4-Dinitrophenol	8.60	184	9160	16.1877132	ppb	#	34
54)	Dibenzofuran	8.78	168	279649	17.4904129	ppb		97
55)	2,4-Dinitrotoluene	8.74	165	66926	18.5239570	ppb		95
56)	2,3,4,6-Tetrachlorophenol	8.90	232	48626	19.7673705	ppb		89
57)	4-Nitrophenol	8.65	139	20775	8.2476350	ppb	#	86
58)	Fluorene	9.15	166	231566	17.3771889	ppb		98
59)	4-Chlorophenyl-phenylether	9.13	204	105499	16.9875206	ppb		95
60)	Diethyl phthalate	8.98	149	224309	16.7276033	ppb		98
61)	4-Nitroaniline	9.15	138	65050	21.0411124	ppb		91
62)	Azobenzene	9.30	77	234963	14.5017469	ppb		96
63)	Atrazine	9.80	200	70679	20.1746721	ppb		92
65)	4,6-Dinitro-2-methylphenol	9.18	198	35811	21.7464213	ppb		96
66)	N-Nitrosodiphenylamine	9.25	169	192735	17.1832504	ppb		98
68)	4-Bromophenyl-phenylether	9.66	248	67616	17.1097901	ppb		94
69)	Hexachlorobenzene	9.75	284	75729	16.0747892	ppb		96
70)	n-octadecane	9.96	55	45453	16.1450693	ppb	#	92
71)	Pentachlorophenol	9.95	266	33673	13.1750682	ppb		95
72)	Phenanthrene	10.20	178	356751	17.6041528	ppb		97
73)	Anthracene	10.25	178	369659	18.0319221	ppb		99
74)	Carbazole	10.41	167	347843	17.6295453	ppb		99
75)	Di-n-butyl phthalate	10.72	149	441068	16.8578604	ppb		100
76)	2-nitrodiphenylamine	10.93	167	90803	17.7945498	ppb		92
77)	Fluoranthene	11.48	202	443101	18.0610674	ppb		99
79)	Benzidine	11.60	184	213997	17.5013084	ppb		99
80)	Pyrene	11.74	202	463098	18.6666676	ppb		99
82)	Benzylbutyl phthalate	12.34	149	214233	16.9028772	ppb		98
83)	3,3-Dichlorobenzidine	12.95	252	169294	17.4472254	ppb		98
84)	Benzo(a)anthracene	13.02	228	469309	17.7445832	ppb		98
85)	Chrysene	13.06	228	417699	17.4408871	ppb		97
86)	bis(2-Ethylhexyl)phthalate	12.92	149	317872	16.7625217	ppb		97
87)	Di-n-octyl phthalate	13.58	149	570271	17.6622334	ppb		99
89)	Benzo(b)fluoranthene	14.12	252	476379	17.0707958	ppb		99
90)	Benzo(k)fluoranthene	14.15	252	455868	18.1988980	ppb		95
91)	Benzo(a)pyrene	14.46	252	465838	17.8064628	ppb		98
92)	Indeno(1,2,3-cd)pyrene	15.69	276	588824	18.3558191	ppb		99
93)	Dibenz(a,h)anthracene	15.69	278	500792	18.7516890	ppb		97
94)	Benzo(g,h,i)perylene	16.04	276	486800	17.9188958	ppb		98

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\112514B\1125B 06.D Vial: 72
Acq On : 26 Nov 2014 6:35 am Operator: 280
Sample : LCSD 1x WG756857 100-0.5 Inst : BNAMS11
Misc : water 14K08418/14K19022 Multiplr: 0.01
MS Integration Params: RTEINT.P
Quant Time: Nov 26 9:27 2014 Quant Results File: S811K12AN.RES

Method : C:\MSDCHEM\1\METHODS\S811K12AN.M (RTE Integrator)
Title : 8270 BNA
Last Update : Thu Nov 13 14:05:28 2014
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\112514B\1125B 07.D Vial: 73
Acq On : 26 Nov 2014 6:57 am Operator: 280
Sample : BLANK 1x WG756857 100-0.5 Inst : BNAMS11
Misc : water 14K08418/14K19022 Multiplr: 0.01
MS Integration Params: RTEINT.P
Quant Time: Nov 26 14:35 2014 Quant Results File: S811K12AN.RES

Quant Method : C:\MSDCHEM\1\METHODS\S811K12AN.M (RTE Integrator)
Title : 8270 BNA
Last Update : Thu Nov 13 14:05:28 2014
Response via : Initial Calibration
DataAcq Meth : BNA11A

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	5.44	152	140021	8000.00 ppb	-0.05
22) Naphthalene-d8	6.69	136	619155	8000.00 ppb	-0.08
40) Acenaphthene-d10	8.56	164	409162	8000.00 ppb	-0.09
64) Phenanthrene-d10	10.17	188	741735	8000.00 ppb	-0.11
78) Chrysene-d12	13.03	240	860819	8000.00 ppb	-0.15
88) Perylene-d12	14.52	264	1004269	8000.00 ppb	-0.19

System Monitoring Compounds					
4) 2-Fluorophenol	4.34	112	39890	8.0113399 ppb	-0.01
Spiked Amount 20.000	Range 10 - 74		Recovery = 40.06%		
7) Phenol-d5	5.05	99	36029	5.2854543 ppb	-0.04
Spiked Amount 20.000	Range 10 - 63		Recovery = 26.43%		
23) Nitrobenzene-d5	5.95	82	34025	5.1048796 ppb	-0.06
Spiked Amount 10.000	Range 28 - 123		Recovery = 51.05%		
44) 2-Fluorobiphenyl	7.81	172	80660	6.0611089 ppb	-0.09
Spiked Amount 10.000	Range 35 - 133		Recovery = 60.61%		
67) 2,4,6-Tribromophenol	9.41	330	22508	10.2616865 ppb	-0.11
Spiked Amount 20.000	Range 22 - 154		Recovery = 51.31%		
81) p-Terphenyl-d14	11.86	244	114457	5.6812521 ppb	-0.13
Spiked Amount 10.000	Range 30 - 148		Recovery = 56.81%		

Target Compounds					Qvalue
2) Pyridine	0.00	79	0	N.D.	
3) N-Nitrosodimethylamine	3.40	42	344	N.D.	
5) Aniline	0.00	66	0	N.D. d	
6) bis(2-Chloroethyl)ether	0.00	63	0	N.D. d	
8) Phenol	5.06	94	83	N.D.	
9) Benzaldehyde	5.44	105	58	N.D.	
10) 2-Chlorophenol	0.00	128	0	N.D.	
11) n-Decane	5.24	41	2428	0.5719873 ppb #	95
12) 1,3-Dichlorobenzene	0.00	146	0	N.D.	
13) 1,4-Dichlorobenzene	0.00	146	0	N.D.	
14) Benzyl Alcohol	0.00	79	0	N.D.	
15) 1,2-Dichlorobenzene	0.00	146	0	N.D.	
16) bis(2-Chloroisopropyl)ethe	0.00	121	0	N.D.	
17) 2-Methylphenol	0.00	108	0	N.D.	
18) Hexachloroethane	0.00	117	0	N.D.	
19) N-Nitrosodi-n-propylamine	0.00	70	0	N.D.	
20) 3&4-Methyl phenol	0.00	107	0	N.D.	
21) Acetophenone	5.80	105	163	N.D.	
24) Nitrobenzene	5.96	77	67	N.D.	
25) Isophorone	0.00	82	0	N.D.	
26) 2-Nitrophenol	0.00	139	0	N.D.	
27) 2,4-Dimethylphenol	0.00	107	0	N.D.	
28) bis(2-Chlorethoxy)methane	0.00	93	0	N.D.	
29) 2,4-Dichlorophenol	0.00	162	0	N.D.	
30) Benzoic Acid	0.00	105	0	N.D.	
31) 1,2,4-Trichlorobenzene	0.00	180	0	N.D.	
32) Naphthalene	6.71	128	3263	0.1811090 ppb	96
33) 4-Chloroaniline	0.00	65	0	N.D. d	
34) Hexachloro-1,3-butadiene	0.00	225	0	N.D.	
35) Caprolactam	0.00	113	0	N.D.	
36) 4-Chloro-3-methylphenol	0.00	107	0	N.D.	
37) 2-Methylnaphthalene	0.00	142	0	N.D.	
38) 1-Methylnaphthalene	0.00	142	0	N.D.	

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\112514B\1125B 07.D Vial: 73
Acq On : 26 Nov 2014 6:57 am Operator: 280
Sample : BLANK 1x WG756857 100-0.5 Inst : BNAMS11
Misc : water 14K08418/14K19022 Multiplr: 0.01
MS Integration Params: RTEINT.P
Quant Time: Nov 26 14:35 2014 Quant Results File: S811K12AN.RES

Quant Method : C:\MSDCHEM\1\METHODS\S811K12AN.M (RTE Integrator)
Title : 8270 BNA
Last Update : Thu Nov 13 14:05:28 2014
Response via : Initial Calibration
DataAcq Meth : BNA11A

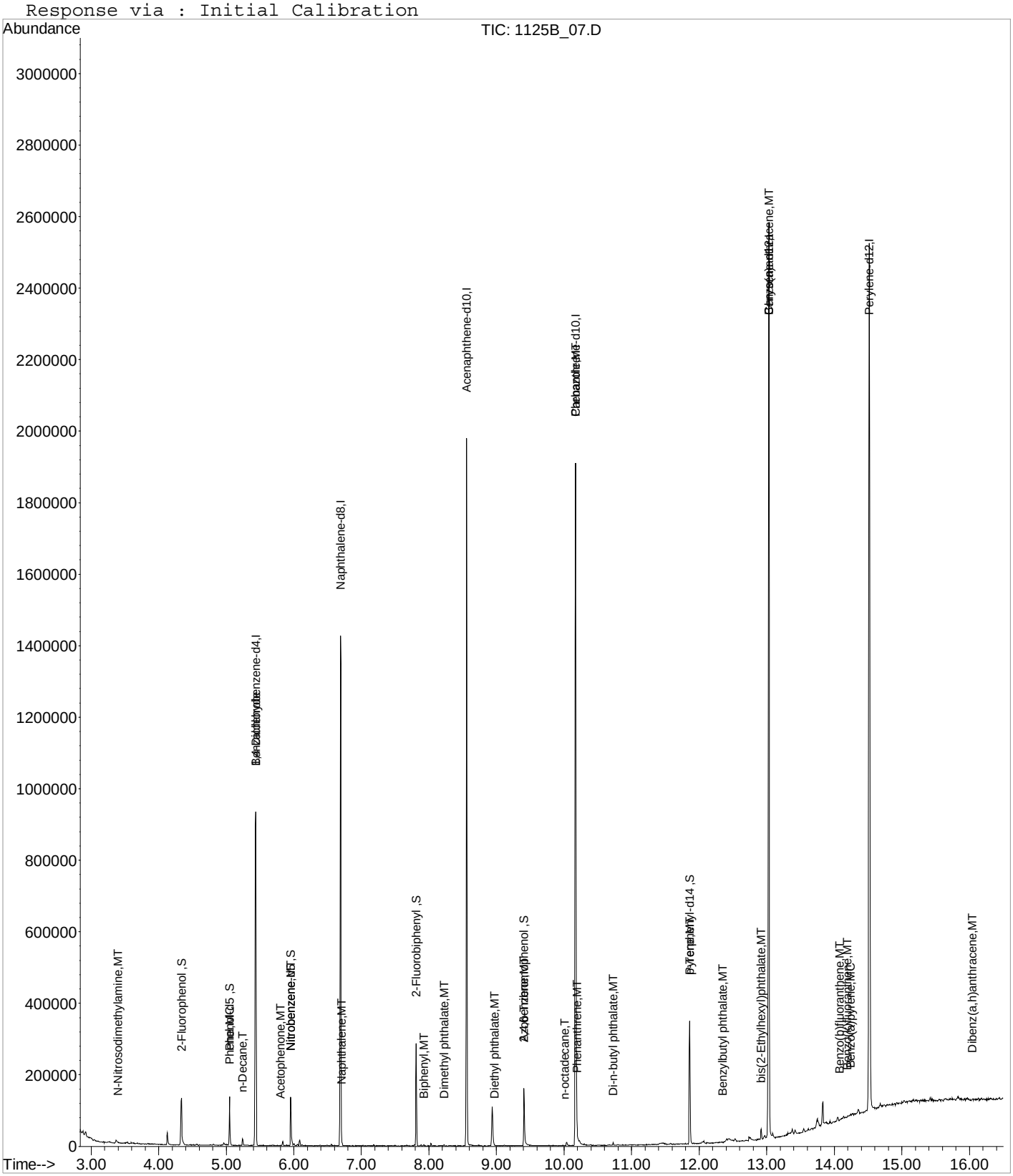
	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
39)	1,2,4,5-Tetrachlorobenzene	0.00	216	0	N.D.	
41)	Hexachlorocyclopentadiene	0.00	237	0	N.D.	
42)	2,4,6-Trichlorophenol	0.00	196	0	N.D.	
43)	2,4,5-Trichlorophenol	0.00	196	0	N.D.	
45)	Biphenyl	7.92	154	1358	N.D.	
46)	2-Chloronaphthalene	0.00	162	0	N.D.	
47)	2-Nitroaniline	0.00	138	0	N.D.	
48)	Acenaphthylene	0.00	152	0	N.D.	
49)	Dimethyl phthalate	8.22	163	1726	0.1339596 ppb	83
50)	2,6-Dinitrotoluene	0.00	165	0	N.D.	
51)	3-Nitroaniline	0.00	138	0	N.D.	
52)	Acenaphthene	0.00	153	0	N.D.	
53)	2,4-Dinitrophenol	0.00	184	0	N.D.	
54)	Dibenzofuran	0.00	168	0	N.D.	
55)	2,4-Dinitrotoluene	0.00	165	0	N.D.	
56)	2,3,4,6-Tetrachlorophenol	0.00	232	0	N.D.	
57)	4-Nitrophenol	0.00	139	0	N.D.	
58)	Fluorene	0.00	166	0	N.D.	
59)	4-Chlorophenyl-phenylether	0.00	204	0	N.D.	
60)	Diethyl phthalate	8.98	149	282	N.D.	
61)	4-Nitroaniline	0.00	138	0	N.D.	
62)	Azobenzene	9.41	77	152	N.D.	
63)	Atrazine	0.00	200	0	N.D.	
65)	4,6-Dinitro-2-methylphenol	0.00	198	0	N.D.	
66)	N-Nitrosodiphenylamine	0.00	169	0	N.D.	
68)	4-Bromophenyl-phenylether	0.00	248	0	N.D.	
69)	Hexachlorobenzene	0.00	284	0	N.D.	
70)	n-octadecane	10.01	55	163	N.D.	
71)	Pentachlorophenol	0.00	266	0	N.D.	
72)	Phenanthrene	10.20	178	94	N.D.	
73)	Anthracene	0.00	178	0	N.D. d	
74)	Carbazole	10.17	167	78	N.D.	
75)	Di-n-butyl phthalate	10.72	149	3564	N.D.	
76)	2-nitrodiphenylamine	0.00	167	0	N.D.	
77)	Fluoranthene	0.00	202	0	N.D.	
79)	Benzidine	0.00	184	0	N.D. d	
80)	Pyrene	11.85	202	281	N.D.	
82)	Benzylbutyl phthalate	12.34	149	811	N.D.	
83)	3,3-Dichlorobenzidine	0.00	252	0	N.D.	
84)	Benzo(a)anthracene	13.03	228	2530	N.D.	
85)	Chrysene	0.00	228	0	N.D. d	
86)	bis(2-Ethylhexyl)phthalate	12.92	149	8671	0.4450392 ppb	95
87)	Di-n-octyl phthalate	0.00	149	0	N.D. d	
89)	Benzo(b)fluoranthene	14.07	252	168	N.D.	
90)	Benzo(k)fluoranthene	14.19	252	185	N.D.	
91)	Benzo(a)pyrene	14.23	252	231	N.D.	
92)	Indeno(1,2,3-cd)pyrene	0.00	276	0	N.D.	
93)	Dibenz(a,h)anthracene	16.04	278	54	N.D.	
94)	Benzo(g,h,i)perylene	0.00	276	0	N.D.	

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\112514B\1125B 07.D Vial: 73
Acq On : 26 Nov 2014 6:57 am Operator: 280
Sample : BLANK 1x WG756857 100-0.5 Inst : BNAMS11
Misc : water 14K08418/14K19022 Multiplr: 0.01
MS Integration Params: RTEINT.P
Quant Time: Nov 26 14:35 2014 Quant Results File: S811K12AN.RES

Method : C:\MSDCHEM\1\METHODS\S811K12AN.M (RTE Integrator)
Title : 8270 BNA
Last Update : Thu Nov 13 14:05:28 2014
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\112514B\1125B 11.D Vial: 77
Acq On : 26 Nov 2014 8:21 am Operator: 280
Sample : L735181-08 1x WG756857 100-0.5 Inst : BNAMS11
Misc : water 14K08418/14K19022 Multiplr: 0.01
MS Integration Params: RTEINT.P
Quant Time: Nov 26 14:43 2014 Quant Results File: S811K12AN.RES

Quant Method : C:\MSDCHEM\1\METHODS\S811K12AN.M (RTE Integrator)
Title : 8270 BNA
Last Update : Thu Nov 13 14:05:28 2014
Response via : Initial Calibration
DataAcq Meth : BNA11A

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	5.44	152	104392	8000.00 ppb	-0.05
22) Naphthalene-d8	6.70	136	551936	8000.00 ppb	-0.07
40) Acenaphthene-d10	8.56	164	365512	8000.00 ppb	-0.09
64) Phenanthrene-d10	10.17	188	659955	8000.00 ppb	-0.11
78) Chrysene-d12	13.03	240	764325	8000.00 ppb	-0.15
88) Perylene-d12	14.52	264	882933	8000.00 ppb	-0.19

System Monitoring Compounds					
4) 2-Fluorophenol	4.34	112	27374	7.3740375 ppb	-0.01
Spiked Amount 20.000	Range 10 - 74		Recovery = 36.87%		
7) Phenol-d5	5.05	99	25797	5.0760428 ppb	-0.04
Spiked Amount 20.000	Range 10 - 63		Recovery = 25.38%		
23) Nitrobenzene-d5	5.95	82	27269	4.5895197 ppb	-0.06
Spiked Amount 10.000	Range 28 - 123		Recovery = 45.90%		
44) 2-Fluorobiphenyl	7.81	172	62501	5.2574419 ppb	-0.09
Spiked Amount 10.000	Range 35 - 133		Recovery = 52.57%		
67) 2,4,6-Tribromophenol	9.41	330	21273	10.9004650 ppb	-0.11
Spiked Amount 20.000	Range 22 - 154		Recovery = 54.50%		
81) p-Terphenyl-d14	11.86	244	92448	5.1681249 ppb	-0.13
Spiked Amount 10.000	Range 30 - 148		Recovery = 51.68%		

Target Compounds					Qvalue
2) Pyridine	3.48	79	330	N.D.	
3) N-Nitrosodimethylamine	0.00	42	0	N.D. d	
5) Aniline	5.13	66	66	N.D.	
6) bis(2-Chloroethyl)ether	0.00	63	0	N.D. d	
8) Phenol	5.07	94	223	N.D.	
9) Benzaldehyde	5.05	105	58	N.D.	
10) 2-Chlorophenol	5.22	128	73	N.D.	
11) n-Decane	5.22	41	6671	2.1079225 ppb #	89
12) 1,3-Dichlorobenzene	5.45	146	1367	0.3113029 ppb	91
13) 1,4-Dichlorobenzene	5.45	146	1367	0.3076950 ppb	92
14) Benzyl Alcohol	5.53	79	57	N.D.	
15) 1,2-Dichlorobenzene	5.45	146	1367	0.3225260 ppb	90
16) bis(2-Chloroisopropyl)ethe	0.00	121	0	N.D.	
17) 2-Methylphenol	0.00	108	0	N.D.	
18) Hexachloroethane	0.00	117	0	N.D. d	
19) N-Nitrosodi-n-propylamine	0.00	70	0	N.D. d	
20) 3&4-Methyl phenol	6.01	107	531	N.D.	
21) Acetophenone	5.80	105	233	N.D.	
24) Nitrobenzene	5.96	77	228	N.D.	
25) Isophorone	6.20	82	170	N.D.	
26) 2-Nitrophenol	0.00	139	0	N.D. d	
27) 2,4-Dimethylphenol	6.28	107	67	N.D.	
28) bis(2-Chlorethoxy)methane	6.33	93	58	N.D.	
29) 2,4-Dichlorophenol	6.74	162	61	N.D.	
30) Benzoic Acid	0.00	105	0	N.D. d	
31) 1,2,4-Trichlorobenzene	0.00	180	0	N.D.	
32) Naphthalene	6.72	128	4918	0.3062120 ppb	94
33) 4-Chloroaniline	0.00	65	0	N.D. d	
34) Hexachloro-1,3-butadiene	0.00	225	0	N.D.	
35) Caprolactam	7.10	113	81	N.D.	
36) 4-Chloro-3-methylphenol	0.00	107	0	N.D. d	
37) 2-Methylnaphthalene	7.44	142	205	N.D.	
38) 1-Methylnaphthalene	7.62	142	75	N.D.	

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\112514B\1125B 11.D Vial: 77
Acq On : 26 Nov 2014 8:21 am Operator: 280
Sample : L735181-08 1x WG756857 100-0.5 Inst : BNAMS11
Misc : water 14K08418/14K19022 Multiplr: 0.01
MS Integration Params: RTEINT.P
Quant Time: Nov 26 14:43 2014 Quant Results File: S811K12AN.RES

Quant Method : C:\MSDCHEM\1\METHODS\S811K12AN.M (RTE Integrator)
Title : 8270 BNA
Last Update : Thu Nov 13 14:05:28 2014
Response via : Initial Calibration
DataAcq Meth : BNA11A

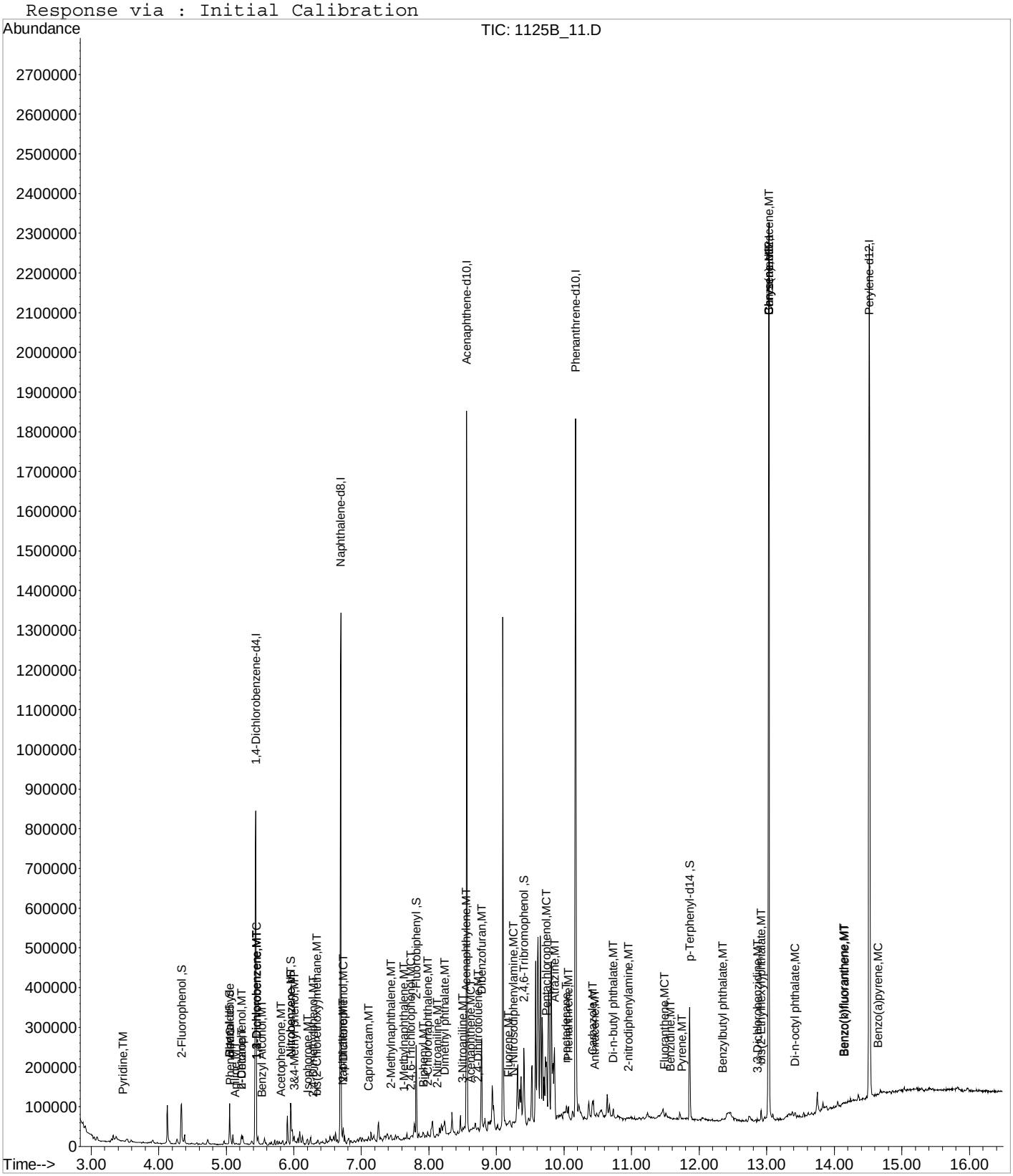
	Compound	R.T.	QIon	Response	Conc Unit		Qvalue
39)	1,2,4,5-Tetrachlorobenzene	0.00	216	0	N.D.		
41)	Hexachlorocyclopentadiene	0.00	237	0	N.D.		
42)	2,4,6-Trichlorophenol	7.72	196	62	N.D.		
43)	2,4,5-Trichlorophenol	0.00	196	0	N.D.		
45)	Biphenyl	7.92	154	1535	N.D.		
46)	2-Chloronaphthalene	7.97	162	53	N.D.		
47)	2-Nitroaniline	8.13	138	65	N.D.		
48)	Acenaphthylene	8.54	152	56	N.D.		
49)	Dimethyl phthalate	8.22	163	1948	0.1692449 ppb		89
50)	2,6-Dinitrotoluene	0.00	165	0	N.D. d		
51)	3-Nitroaniline	8.49	138	119	N.D.		
52)	Acenaphthene	8.61	153	145	N.D.		
53)	2,4-Dinitrophenol	0.00	184	0	N.D.		
54)	Dibenzofuran	8.78	168	242	N.D.		
55)	2,4-Dinitrotoluene	8.73	165	307	N.D.		
56)	2,3,4,6-Tetrachlorophenol	0.00	232	0	N.D.		
57)	4-Nitrophenol	0.00	139	0	N.D. d		
58)	Fluorene	9.17	166	431	N.D.		
59)	4-Chlorophenyl-phenylether	0.00	204	0	N.D.		
60)	Diethyl phthalate	0.00	149	0	N.D. d		
61)	4-Nitroaniline	0.00	138	0	N.D. d		
62)	Azobenzene	0.00	77	0	N.D. d		
63)	Atrazine	9.87	200	118	N.D.		
65)	4,6-Dinitro-2-methylphenol	0.00	198	0	N.D.		
66)	N-Nitrosodiphenylamine	9.25	169	398	N.D.		
68)	4-Bromophenyl-phenylether	0.00	248	0	N.D.		
69)	Hexachlorobenzene	0.00	284	0	N.D.		
70)	n-octadecane	10.02	55	2307	0.8768825 ppb	#	53
71)	Pentachlorophenol	9.74	266	57	N.D.		
72)	Phenanthrene	10.05	178	2791	0.1473758 ppb		73
73)	Anthracene	10.46	178	5522	0.2882396 ppb		66
74)	Carbazole	10.41	167	2160	N.D.		
75)	Di-n-butyl phthalate	10.72	149	6398	0.2616722 ppb		94
76)	2-nitrodiphenylamine	10.94	167	504	N.D.		
77)	Fluoranthene	11.49	202	524	N.D.		
79)	Benzidine	11.58	184	275	1.1842234 ppb	#	67
80)	Pyrene	11.74	202	466	N.D.		
82)	Benzylbutyl phthalate	12.34	149	1234	N.D.		
83)	3,3-Dichlorobenzidine	12.86	252	70	N.D.		
84)	Benzo(a)anthracene	13.03	228	2231	N.D.		
85)	Chrysene	13.03	228	2231	N.D.		
86)	bis(2-Ethylhexyl)phthalate	12.92	149	6572	0.3798922 ppb		95
87)	Di-n-octyl phthalate	13.42	149	1880	N.D.		
89)	Benzo(b)fluoranthene	14.13	252	278	N.D.		
90)	Benzo(k)fluoranthene	14.15	252	175	N.D.		
91)	Benzo(a)pyrene	14.65	252	467	N.D.		
92)	Indeno(1,2,3-cd)pyrene	0.00	276	0	N.D.		
93)	Dibenz(a,h)anthracene	0.00	278	0	N.D.		
94)	Benzo(g,h,i)perylene	0.00	276	0	N.D.		

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\112514B\1125B 11.D Vial: 77
Acq On : 26 Nov 2014 8:21 am Operator: 280
Sample : L735181-08 1x WG756857 100-0.5 Inst : BNAMS11
Misc : water 14K08418/14K19022 Multiplr: 0.01
MS Integration Params: RTEINT.P
Quant Time: Nov 26 14:43 2014 Quant Results File: S811K12AN.RES

Method : C:\MSDCHEM\1\METHODS\S811K12AN.M (RTE Integrator)
Title : 8270 BNA
Last Update : Thu Nov 13 14:05:28 2014
Response via : Initial Calibration



Environmental Science Corporation
12065 Lebanon Rd., Mt. Juliet, TN 37122

Injection Log

Instrument ID : BNAMS19
Computer Name : SVCOMPAQ

Released By : Allen Fuller
Date Released : 11/28/2014 12:56:02 PM

Run ID : 112514A
Signature : _____

#	File ID	Sample ID	Method	WG	Product	Matrix	Account #	State	Dil.	Mult.	Injected	Misc.
1	1125A_00	INSTBLK	S819K21N						1	1	11/26/14 0538	"INSTRUMENT BLANK"
2	1125A_01	TUNE SVMS 50 PPM 14K19964	TUNEC						1	1	11/26/14 0601	"DFTPP TUNE"
3	1125A_01 T	TUNE SVMS 50 PPM 14K19964	TUNEC							1	11/26/14 0601	
4	1125A_02	ICV SVMS 10K PPB 14K07412	S819K21N						1	1	11/26/14 0626	"8270 PRIMARY CALIBRATION"
5	1125A_03	ICV TCL 10K1 PPB 14G21532	S819K21N						1	1	11/26/14 0649	"8270 TCL CALIBRATION"
6	1125A_04	LCS	S819K21N	WG756405	8270	GW			1	0.005	11/26/14 0715	"water 14K08418/14K19022"
7	1125A_05	LCSD	S819K21N	WG756405	8270	GW			1	0.005	11/26/14 0739	"water 14K08418/14K19022"
8	1125A_06	BLANK	S819K21N	WG756405	8270	GW			1	0.005	11/26/14 0803	"water 14K08418/14K19022"
9	1125A_07	L734891-01	S819K21N	WG756405	8270PP	GW	ARCADTOK	OK	1	0.005	11/26/14 0827	"water 14K08418/14K19022"
10	1125A_08	L734964-01	S819K21N	WG756405	8270BN	GW	MACTECLEX	KY	1	0.005	11/26/14 0851	"water 14K08418/14K19022"
11	1125A_09	L734964-02	S819K21N	WG756405	8270BN	GW	MACTECLEX	KY	1	0.005	11/26/14 0915	"water 14K08418/14K19022"
12	1125A_10	L735023-19	S819K21N	WG756405	8270BN	GW	COMMANINWPA	PA	1	0.005	11/26/14 0939	"water 14K08418/14K19022"
13	1125A_11	L735023-20	S819K21N	WG756405	8270BN	GW	COMMANINWPA	PA	1	0.005	11/26/14 1003	"water 14K08418/14K19022"
14	1125A_12	L735113-03	S819K21N	WG756405	8270	GW	BNSF4TRC	CA	1	0.005	11/26/14 1027	"water 14K08418/14K19022"
15	1125A_13	L735113-04	S819K21N	WG756405	8270	GW	BNSF4TRC	CA	1	0.005	11/26/14 1051	"water 14K08418/14K19022"
16	1125A_14	L735113-05	S819K21N	WG756405	8270	GW	BNSF4TRC	CA	1	0.005	11/26/14 1114	"water 14K08418/14K19022"
17	1125A_15	L735113-06	S819K21N	WG756405	8270	GW	BNSF4TRC	CA	1	0.005	11/26/14 1138	"water 14K08418/14K19022"
18	1125A_16	L735113-07	S819K21N	WG756405	8270	GW	BNSF4TRC	CA	1	0.005	11/26/14 1202	"water 14K08418/14K19022"
19	1125A_17	L735113-08	S819K21N	WG756405	8270	GW	BNSF4TRC	CA	1	0.005	11/26/14 1226	"water 14K08418/14K19022"
20	1125A_18	L735113-09	S819K21N	WG756405	8270	GW	BNSF4TRC	CA	1	0.005	11/26/14 1249	"water 14K08418/14K19022"

Environmental Science Corporation
12065 Lebanon Rd., Mt. Juliet, TN 37122

Injection Log

Instrument ID : BNAMS19
Computer Name : SVCOMPAQ
Released By : Allen Fuller
Date Released : 11/28/2014 12:56:02 PM
Run ID : 112514A
Signature : _____

#	File ID	Sample ID	Method	WG	Product	Matrix	Account #	State	Dil.	Mult.	Injected	Misc.
21	1125A_19	L735181-02	S819K21N	WG756405	8270	GW	URSTAZ	AZ	1	0.005	11/26/14 1313	"water 14K08418/14K19022"
22	1125A_20	L735181-05	S819K21N	WG756405	8270	GW	URSTAZ	AZ	1	0.005	11/26/14 1337	"water 14K08418/14K19022"
23	1125A_21	L735181-07	S819K21N	WG756405	8270	GW	URSTAZ	AZ	1	0.005	11/26/14 1401	"water 14K08418/14K19022"
24	1125A_22	L735113-02	S819K21N	WG756405	8270	GW	BNSF4TRC	CA	1	0.005	11/26/14 1425	"water 14K08418/14K19022"
25	1125A_23	L735113-01	S819K21N	WG756405	8270	GW	BNSF4TRC	CA	1	0.005	11/26/14 1449	"water 14K08418/14K19022"
26	1125A_24	L735023-21	S819K21N	WG756405	8270BN	GW	COMMANINWPA	PA	1	0.005	11/26/14 1513	"water 14K08418/14K19022"
27	1125A_25	L735172-02	S819K21N	WG756405	8270	GW	LAWENGAN	NC	5	0.025	11/26/14 1537	"water 14K08418/14K19022"
28	1125A_26	L735023-22	S819K21N	WG756405	8270BN	GW	COMMANINWPA	PA	5	0.025	11/26/14 1600	"water 14K08418/14K19022"
29	1125A_27	L734667-06	S819K21N	WG755906	8270	GW	AQUAOPKS	KS	1	0.005	11/26/14 1624	"water 14K08418/14K19022"
30	1125A_28	L734667-07	S819K21N	WG755906	8270	GW	AQUAOPKS	KS	1	0.005	11/26/14 1648	"water 14K08418/14K19022"
31	1125A_29	L734667-08	S819K21N	WG755906	8270	GW	AQUAOPKS	KS	1	0.005	11/26/14 1712	"water 14K08418/14K19022"
32	1125A_30	L734789-04	S819K21N	WG756403	8270	GW	TERRASMO	MO	1	0.005	11/26/14 1736	"water 14K08418/14K19022"
33	1125A_31	L734964-02	S819K21N	WG756405	8270BN	GW	MACTECLEX	KY	5	0.025	11/26/14 1800	"water 14K08418/14K19022 final 16"

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\112514A\
Data File : 1125A 01.D
Acq On : 26 Nov 2014 6:01 am
Operator : 377
Sample : TUNE SVMS 50 PPM 14K19964
Misc : DFTPP TUNE
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 26 06:24:06 2014
Quant Method : C:\msdchem\1\methods\TUNEC.M
Quant Title : 8270 BNA
QLast Update : Tue May 21 10:58:22 2013
Response via : Initial Calibration

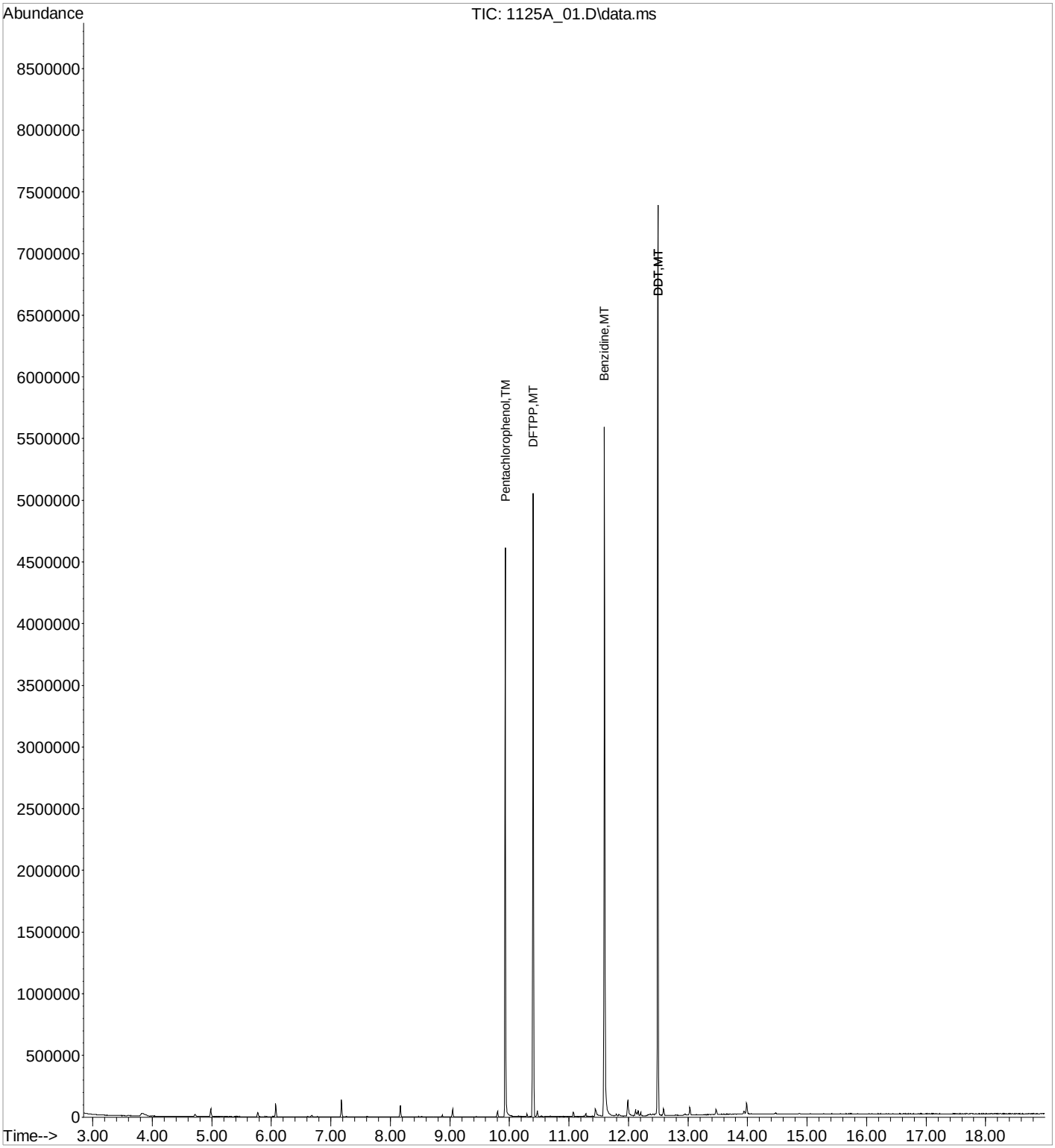
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Target Compounds						Qvalue
1) Pentachlorophenol	9.931	264	283029	48.5034035	ug/mL	100
2) DFTPP	10.401	198	554816	74.9866871	ug/mL	100
3) Benzidine	11.595	184	2224488	92.6806668	ug/mL	100
4) DDT	12.495	TIC	7268952	540.1927139	ug/ml	100
5) DDT	12.495	235	1336321	99.3087955	ug/mL	98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\112514A\
Data File : 1125A 01.D
Acq On : 26 Nov 2014 6:01 am
Operator : 377
Sample : TUNE SVMS 50 PPM 14K19964
Misc : DFTPP TUNE
ALS Vial : 2 Sample Multiplier: 1

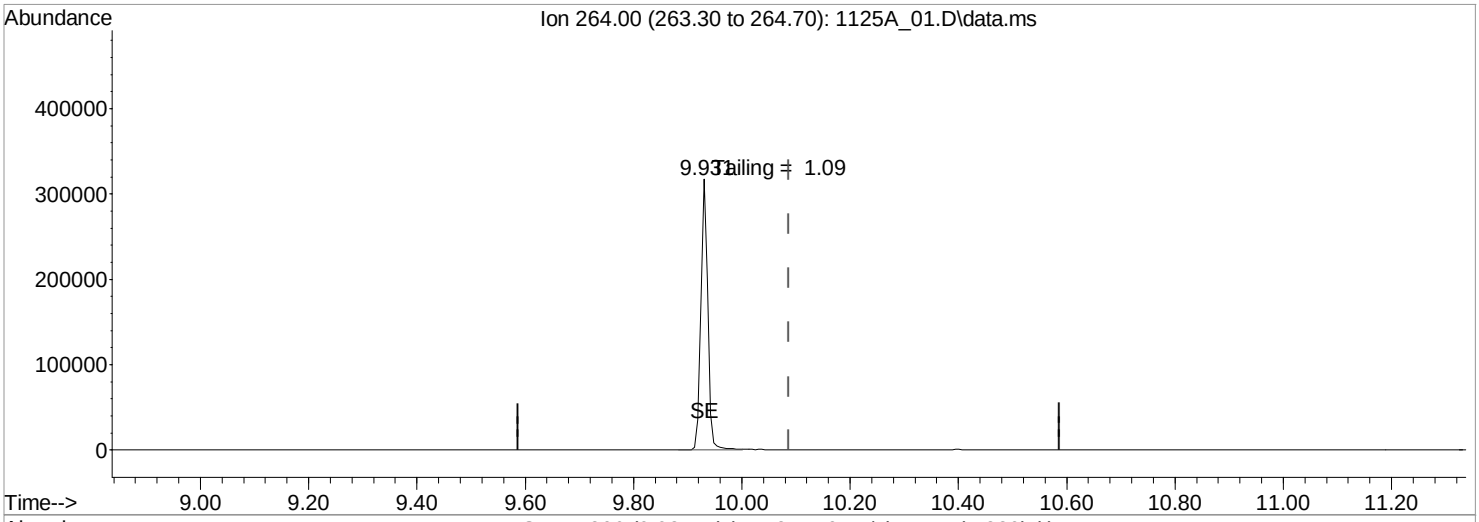
Quant Time: Nov 26 06:24:06 2014
Quant Method : C:\msdchem\1\methods\TUNEC.M
Quant Title : 8270 BNA
QLast Update : Tue May 21 10:58:22 2013
Response via : Initial Calibration

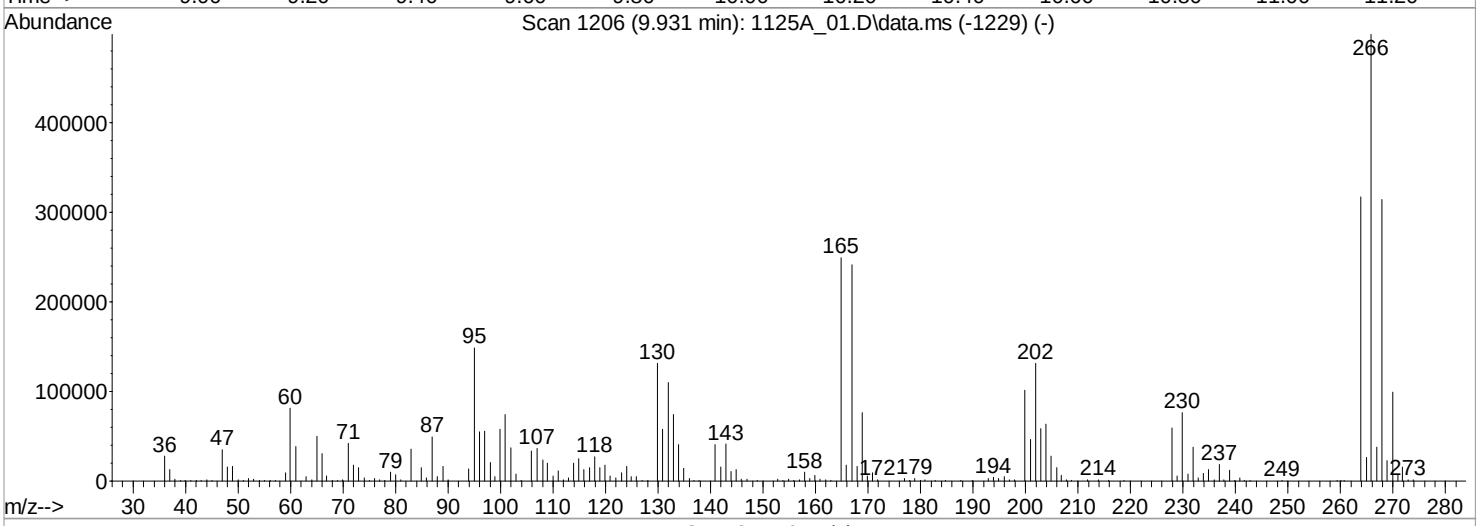


Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\112514A\
Data File : 1125A 01.D
Acq On : 26 Nov 2014 6:01 am
Operator : 377
Sample : TUNE SVMS 50 PPM 14K19964
Misc : DFTPP TUNE
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 26 06:24:06 2014
Quant Method : C:\msdchem\1\methods\TUNEC.M
Quant Title : 8270 BNA
QLast Update : Tue May 21 10:58:22 2013
Response via : Initial Calibration





(1) Pentachlorophenol (TM)

9.931min (-0.156) 48.5034035 ug/mL

Qvalue = 100

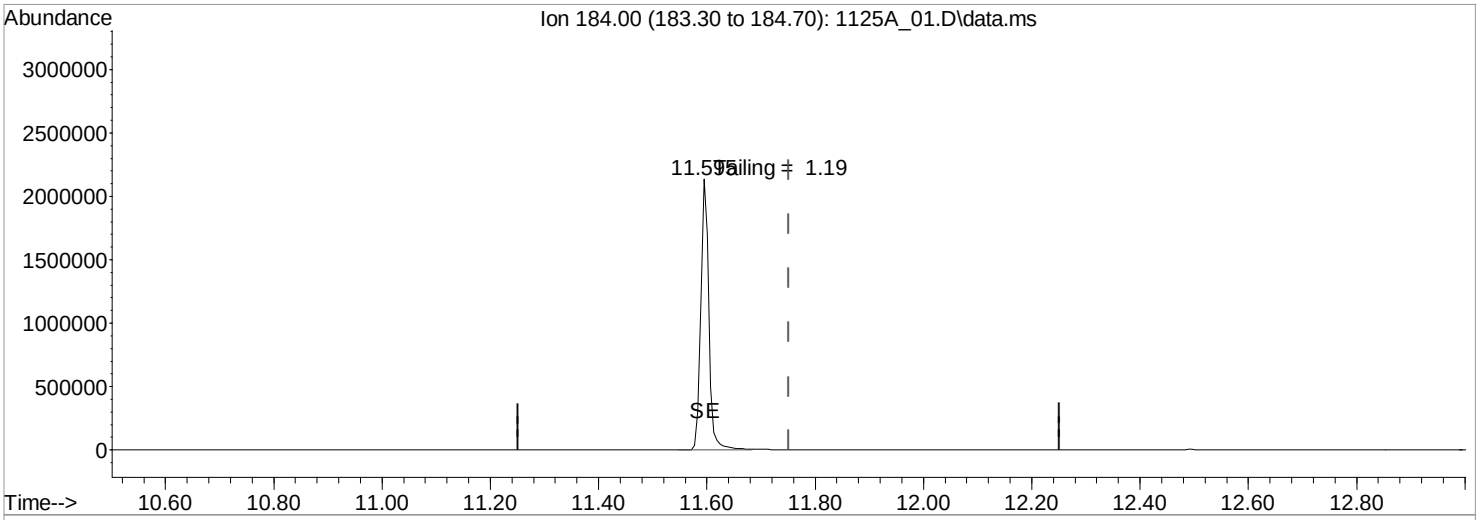
response 283029

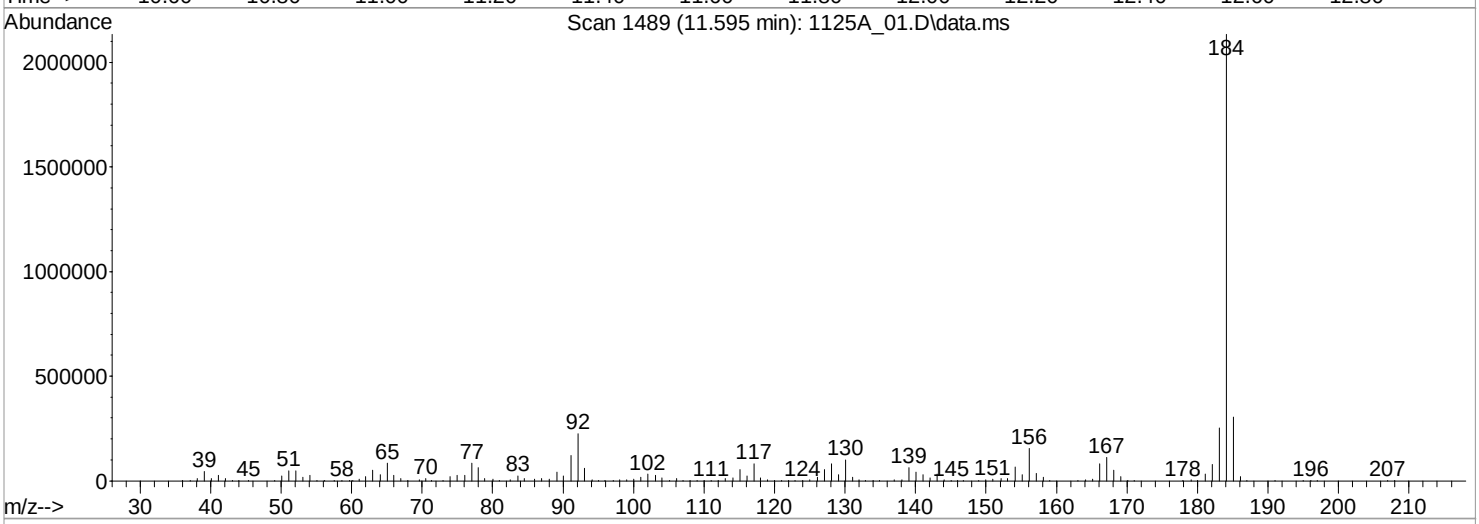
Ion	Exp%	Act%
264.00	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\112514A\
Data File : 1125A 01.D
Acq On : 26 Nov 2014 6:01 am
Operator : 377
Sample : TUNE SVMS 50 PPM 14K19964
Misc : DFTPP TUNE
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 26 06:24:06 2014
Quant Method : C:\msdchem\1\methods\TUNEC.M
Quant Title : 8270 BNA
QLast Update : Tue May 21 10:58:22 2013
Response via : Initial Calibration





TIC: 1125A_01.D\data.ms

(3) Benzidine (MT)

11.595min (-0.156) 92.6806668 ug/mL

Qvalue = 100

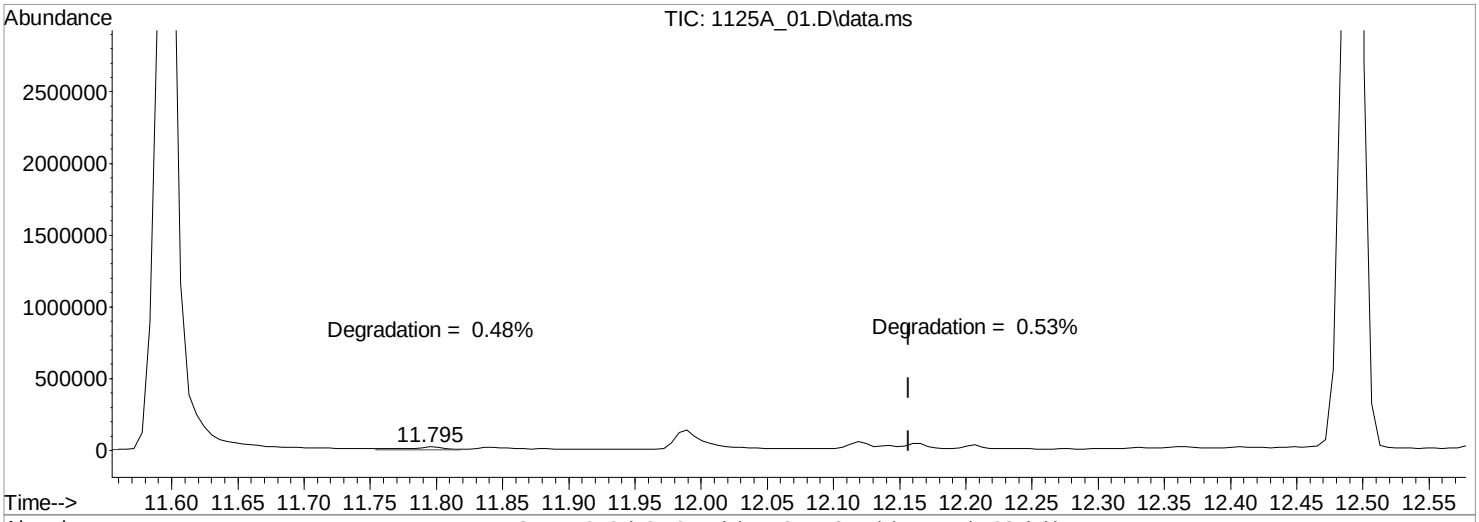
response 2224488

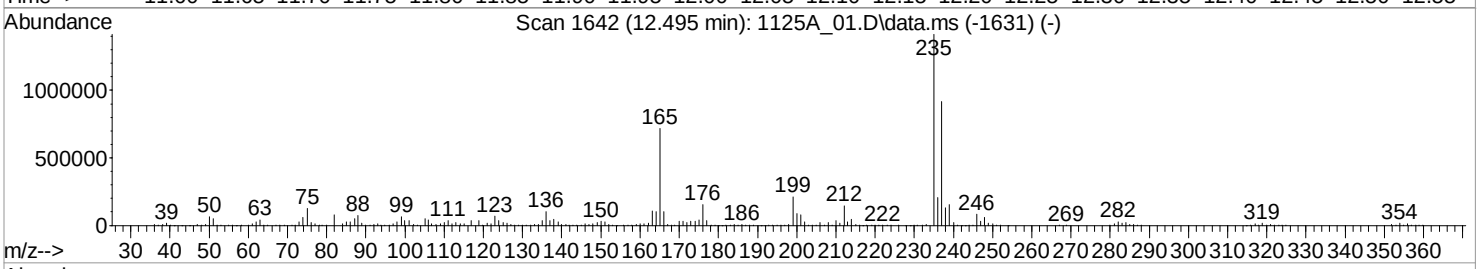
Ion	Exp%	Act%
184.00	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

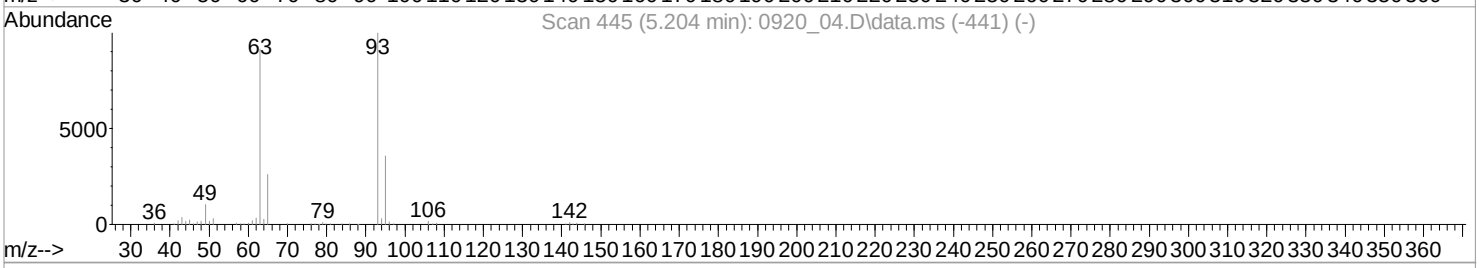
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\112514A\
Data File : 1125A 01.D
Acq On : 26 Nov 2014 6:01 am
Operator : 377
Sample : TUNE SVMS 50 PPM 14K19964
Misc : DFTPP TUNE
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 26 06:24:06 2014
Quant Method : C:\msdchem\1\methods\TUNEC.M
Quant Title : 8270 BNA
QLast Update : Tue May 21 10:58:22 2013
Response via : Initial Calibration







TIC: 1125A_01.D\data.ms

(4) DDT (MT)

12.495min (-0.162) 540.1927139 ug/ml

Qvalue = 100

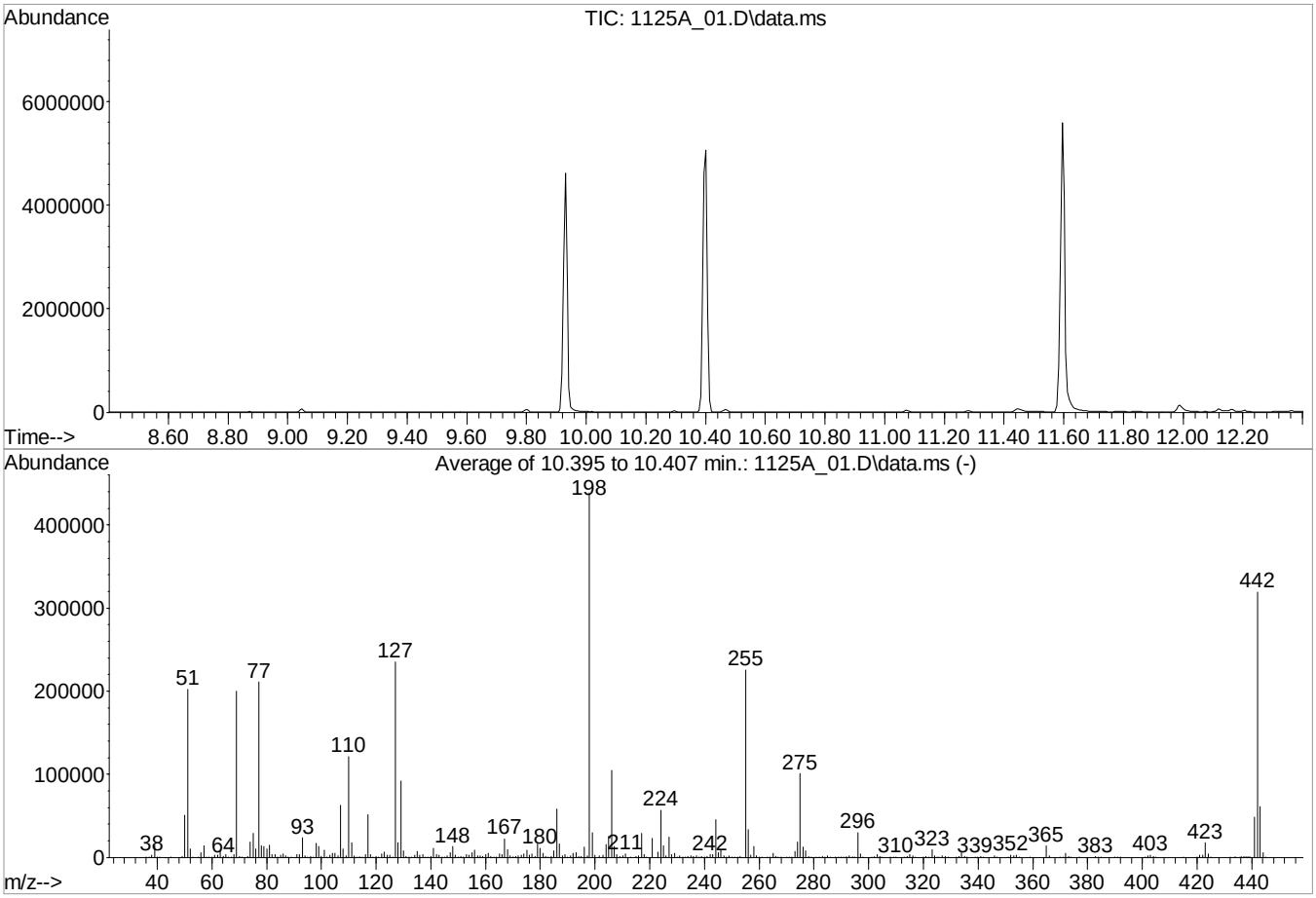
response 7268952

Signal	Exp%	Act%
TIC	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Data Path : C:\msdchem\1\data\112514A\
Data File : 1125A 01.D
Acq On : 26 Nov 2014 6:01 am
Operator : 377
Sample : TUNE SVMS 50 PPM 14K19964
Misc : DFTPP TUNE
ALS Vial : 2 Sample Multiplier: 1

Integration File: RTEINT.P

Method : C:\msdchem\1\methods\TUNEC.M
Title : 8270 BNA
Last Update : Tue May 21 10:58:22 2013



Spectrum Information: Average of 10.395 to 10.407 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	46.1	201979	PASS
68	69	0.00	2	1.5	3071	PASS
69	198	0.00	100	45.6	200119	PASS
70	69	0.00	2	0.4	876	PASS
127	198	40	60	53.7	235371	PASS
197	198	0.00	1	0.4	1604	PASS
198	198	100	100	100.0	438571	PASS
199	198	5	9	6.7	29520	PASS
275	198	10	30	23.0	100771	PASS
365	198	1	100	3.1	13614	PASS
441	443	0.01	100	79.0	48611	PASS
442	198	40	100	72.8	319360	PASS
443	442	17	23	19.3	61512	PASS

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\112514A\
Data File : 1125A 02.D
Acq On : 26 Nov 2014 6:26 am
Operator : 377
Sample : ICV SVMS 10K PPB 14K07412
Misc : 8270 PRIMARY CALIBRATION
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Nov 26 06:45:24 2014
Quant Method : C:\msdchem\1\methods\S819K21N.M
Quant Title : 8270 BNA
QLast Update : Fri Nov 21 15:09:20 2014
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 1,4-Dichlorobenzene-d4	5.378	152	138029	8000.0000000 ppb	0.00
22) Naphthalene-d8	6.654	136	600387	8000.0000000 ppb	0.00
40) Acenaphthene-d10	8.531	164	374490	8000.0000000 ppb	0.00
64) Phenanthrene-d10	10.148	188	627760	8000.0000000 ppb	0.00
78) Chrysene-d12	13.036	240	616274	8000.0000000 ppb	0.00
88) Perylene-d12	14.866	264	636209	8000.0000000 ppb	-0.02
System Monitoring Compounds					
4) 2-Fluorophenol	4.260	112	200165	9834.6361909 ppb	0.00
Spiked Amount 20.000	Range 10 - 78		Recovery = 49173.18%#		
7) Phenol-d5	4.996	99	264797	9974.5568625 ppb	0.00
Spiked Amount 20.000	Range 5 - 70		Recovery = 49872.78%#		
23) Nitrobenzene-d5	5.907	82	245177	10184.2820105 ppb	0.00
Spiked Amount 10.000	Range 22 - 123		Recovery = 101842.82%#		
44) 2-Fluorobiphenyl	7.784	172	520931	9797.7488129 ppb	-0.01
Spiked Amount 10.000	Range 30 - 131		Recovery = 97977.49%#		
67) 2,4,6-Tribromophenol	9.384	330	69381	9870.3227503 ppb	0.00
Spiked Amount 20.000	Range 11 - 130		Recovery = 49351.61%#		
81) p-Terphenyl-d14	11.860	244	624097	9968.5655057 ppb	-0.02
Spiked Amount 10.000	Range 29 - 137		Recovery = 99685.66%#		
Target Compounds					Qvalue
2) Pyridine	3.313	79	274646	9834.0647894 ppb	99
3) N-Nitrosodimethylamine	3.284	74	139282	10185.0078479 ppb	98
5) Aniline	5.072	66	126670	9906.3897676 ppb	99
6) bis(2-Chloroethyl)ether	5.113	63	188844	10219.3874800 ppb	99
8) Phenol	5.007	94	273486	10024.8699276 ppb	98
9) Benzaldehyde	4.996	105	693	55.4534561 ppb #	1
10) 2-Chlorophenol	5.184	128	237385	9947.9967072 ppb	98
11) n-Decane	5.202	55	51724	9863.4523555 ppb	99
12) 1,3-Dichlorobenzene	5.331	146	263175	9844.5434180 ppb	98
13) 1,4-Dichlorobenzene	5.396	146	265920	9770.1670535 ppb	99
14) Benzyl Alcohol	5.484	79	183371	9688.7035664 ppb	99
15) 1,2-Dichlorobenzene	5.543	146	257390	9836.3536362 ppb	98
16) bis(2-Chloroisopropyl)...	5.619	121	77144	9757.5575020 ppb	95
17) 2-Methylphenol	5.572	108	213315	9981.6887303 ppb	98
18) Hexachloroethane	5.878	117	115098	9830.9841417 ppb	98
19) N-Nitrosodi-n-propylamine	5.743	70	150068	10214.8360547 ppb	98
20) 3&4-Methyl phenol	5.719	107	234479	9937.3078854 ppb	98
21) Acetophenone	5.719	105	2029	59.1253497 ppb #	1
24) Nitrobenzene	5.925	77	250130	10163.9408499 ppb	99
25) Isophorone	6.160	82	421175	9837.7912943 ppb	99
26) 2-Nitrophenol	6.248	139	120859	9624.5065915 ppb	99
27) 2,4-Dimethylphenol	6.260	107	230393	10007.2586777 ppb	98
28) bis(2-Chlorethoxy)methane	6.366	93	295229	10038.5014514 ppb	99
29) 2,4-Dichlorophenol	6.484	162	191722	9874.1694966 ppb	98
30) Benzoic Acid	6.260	105	7837	834.8899137 ppb #	1
31) 1,2,4-Trichlorobenzene	6.590	180	215219	9723.5819951 ppb	98
32) Naphthalene	6.672	128	740567	9581.5821676 ppb	99
33) 4-Chloroaniline	6.713	65	89722	9813.1853151 ppb #	89
34) Hexachloro-1,3-butadiene	6.796	225	116356	9571.6022562 ppb	99
35) Caprolactam	7.201	113	6159	831.6365373 ppb #	26
36) 4-Chloro-3-methylphenol	7.201	107	203971	9937.6974358 ppb	98
37) 2-Methylnaphthalene	7.401	142	511662	9860.4382178 ppb	100

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\112514A\
Data File : 1125A 02.D
Acq On : 26 Nov 2014 6:26 am
Operator : 377
Sample : ICV SVMS 10K PPB 14K07412
Misc : 8270 PRIMARY CALIBRATION
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Nov 26 06:45:24 2014
Quant Method : C:\msdchem\1\methods\S819K21N.M
Quant Title : 8270 BNA
QLast Update : Fri Nov 21 15:09:20 2014
Response via : Initial Calibration

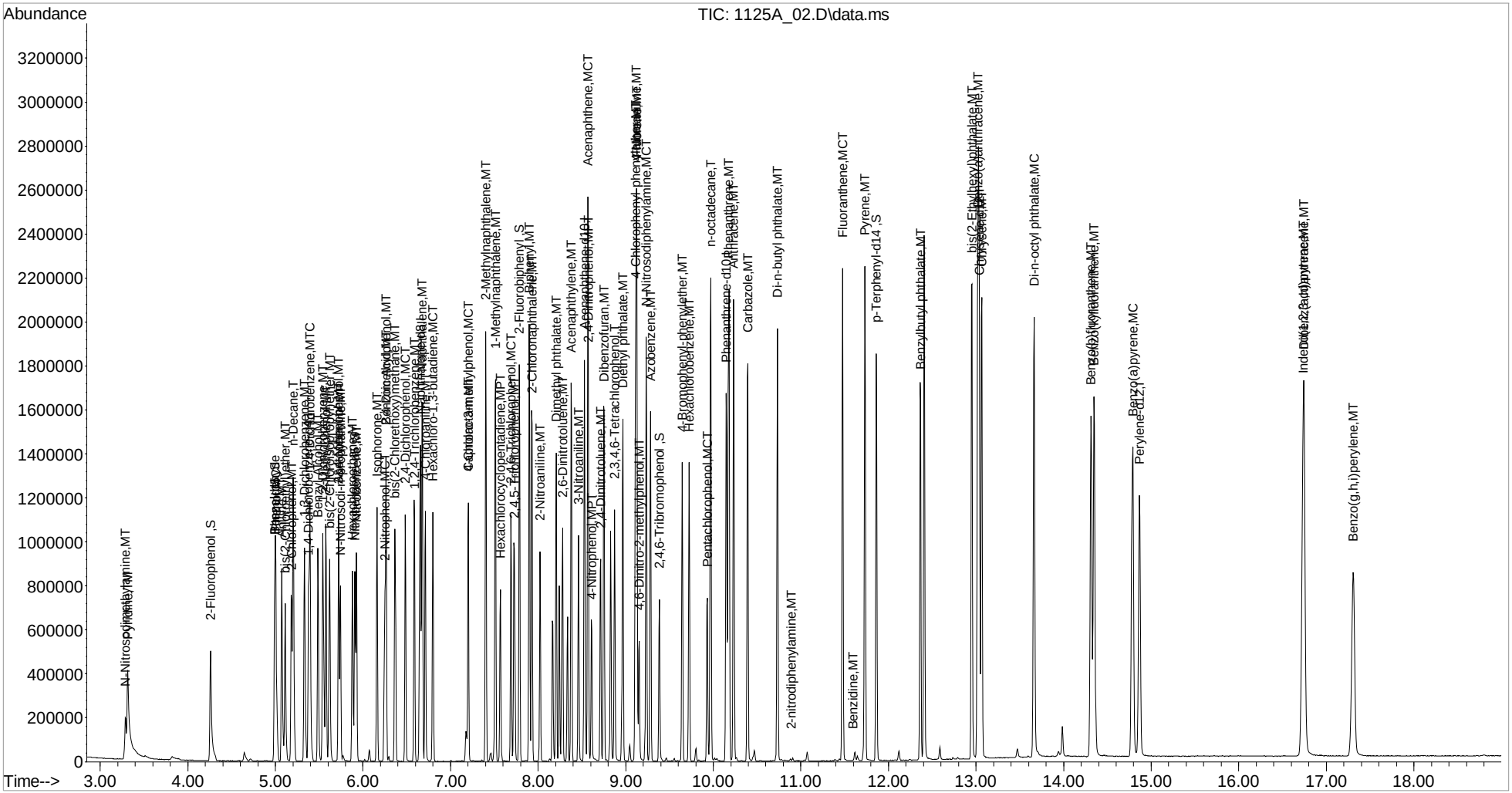
	Compound	R.T.	QIon	Response	Conc Units		Dev(Min)
38)	1-Methylnaphthalene	7.513	142	482890	9905.3547483 ppb		99
39)	1,2,4,5-Tetrachloroben...	7.578	216	168	N.D.		
41)	Hexachlorocyclopentadiene	7.572	237	111432	8749.2569541 ppb		99
42)	2,4,6-Trichlorophenol	7.690	196	132430	9914.0173427 ppb		98
43)	2,4,5-Trichlorophenol	7.731	196	142819	9825.6606712 ppb		95
45)	Biphenyl	7.895	154	605099	9946.3352623 ppb		100
46)	2-Chloronaphthalene	7.931	162	461338	9800.3959006 ppb		99
47)	2-Nitroaniline	8.019	138	152872	9523.8513008 ppb		100
48)	Acenaphthylene	8.378	152	748778	10082.3060355 ppb		99
49)	Dimethyl phthalate	8.207	163	526947	9840.7101777 ppb		99
50)	2,6-Dinitrotoluene	8.278	165	125976	9957.2760532 ppb		98
51)	3-Nitroaniline	8.460	138	138602	9568.4710395 ppb		94
52)	Acenaphthene	8.566	153	503007	9791.7610370 ppb		99
53)	2,4-Dinitrophenol	8.572	184	43566	7477.0710680 ppb	#	94
54)	Dibenzofuran	8.754	168	667623	9872.5334422 ppb		100
55)	2,4-Dinitrotoluene	8.713	165	160521	9872.0826423 ppb		98
56)	2,3,4,6-Tetrachlorophenol	8.872	232	117458	11353.8397175 ppb		91
57)	4-Nitrophenol	8.613	139	104173	9343.0820794 ppb		94
58)	Fluorene	9.125	166	562124	9851.0691551 ppb		98
59)	4-Chlorophenyl-phenyle...	9.113	204	249538	9733.7237825 ppb		95
60)	Diethyl phthalate	8.966	149	560302	9828.0763745 ppb		99
61)	4-Nitroaniline	9.119	138	136086	10342.2436019 ppb		96
62)	Azobenzene	9.284	77	592439	10023.2154193 ppb		98
63)	Atrazine	0.000		0	N.D.		
65)	4,6-Dinitro-2-methylph...	9.154	198	71447	8740.5518762 ppb		89
66)	N-Nitrosodiphenylamine	9.231	169	454952	10004.2686176 ppb		99
68)	4-Bromophenyl-phenylether	9.642	248	139618	9704.8155042 ppb		94
69)	Hexachlorobenzene	9.725	284	158367	9766.1796630 ppb		98
70)	n-octadecane	9.972	55	104276	10157.3435247 ppb		98
71)	Pentachlorophenol	9.931	266	80824	9592.9987362 ppb		98
72)	Phenanthrene	10.178	178	809285	9875.2132035 ppb		99
73)	Anthracene	10.231	178	823841	10013.1858185 ppb		99
74)	Carbazole	10.395	167	751223	10207.9341727 ppb		99
75)	Di-n-butyl phthalate	10.731	149	978630	10062.6675450 ppb		100
76)	2-nitrodiphenylamine	10.889	167	55	582.6569570 ppb	#	1
77)	Fluoranthene	11.478	202	864326	9968.1722120 ppb		100
79)	Benzidine	11.595	184	1492	832.3126855 ppb		83
80)	Pyrene	11.730	202	912357	10269.7645647 ppb		100
82)	Benzylbutyl phthalate	12.366	149	435472	9865.0094497 ppb		96
83)	3,3-Dichlorobenzidine	0.000		0	N.D.		
84)	Benzo(a)anthracene	13.025	228	842199	9800.0423482 ppb		99
85)	Chrysene	13.066	228	798941	10063.8045697 ppb		99
86)	bis(2-Ethylhexyl)phtha...	12.954	149	655122	9514.6025822 ppb		99
87)	Di-n-octyl phthalate	13.666	149	1081113	10046.2403484 ppb		100
89)	Benzo(b)fluoranthene	14.313	252	822251	9766.3288537 ppb		99
90)	Benzo(k)fluoranthene	14.348	252	831784	10334.5039488 ppb		100
91)	Benzo(a)pyrene	14.789	252	782298	10077.7134644 ppb		99
92)	Indeno(1,2,3-cd)pyrene	16.736	276	888890	10562.5710419 ppb		100
93)	Dibenz(a,h)anthracene	16.742	278	754746	10532.7609667 ppb		98
94)	Benzo(g,h,i)perylene	17.307	276	744447	10564.3775722 ppb		98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\112514A\
Data File : 1125A 02.D
Acq On : 26 Nov 2014 6:26 am
Operator : 377
Sample : ICV SVMS 10K PPB 14K07412
Misc : 8270 PRIMARY CALIBRATION
ALS Vial : 3 Sample Multiplier: 1

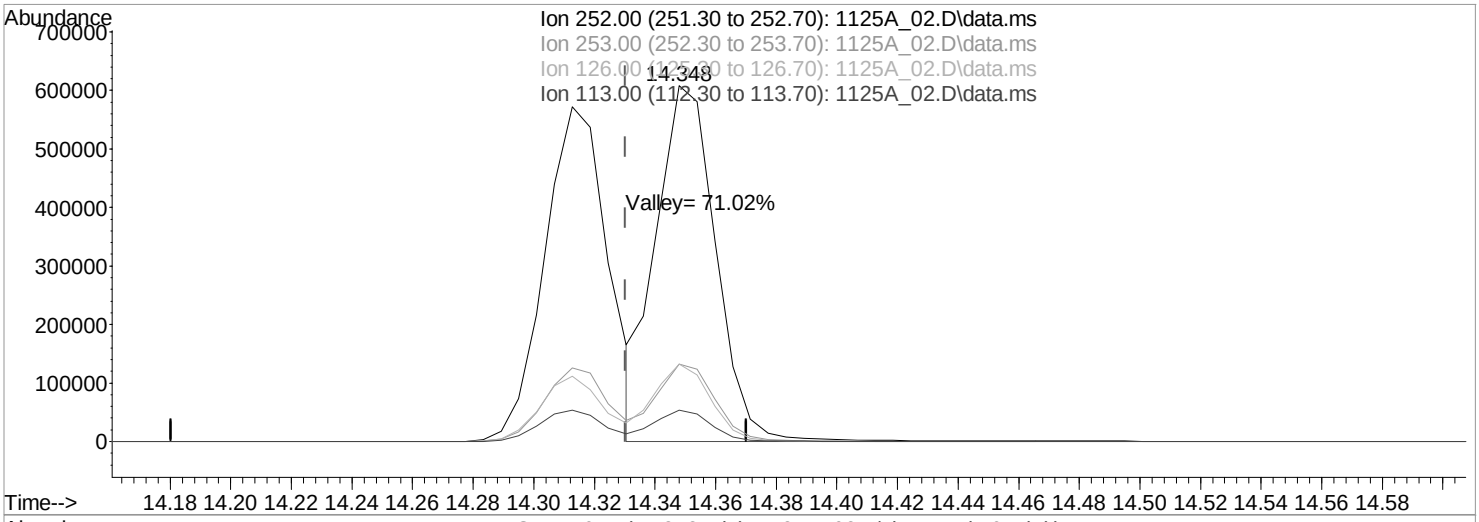
Quant Time: Nov 26 06:45:24 2014
Quant Method : C:\msdchem\1\methods\S819K21N.M
Quant Title : 8270 BNA
QLast Update : Fri Nov 21 15:09:20 2014
Response via : Initial Calibration

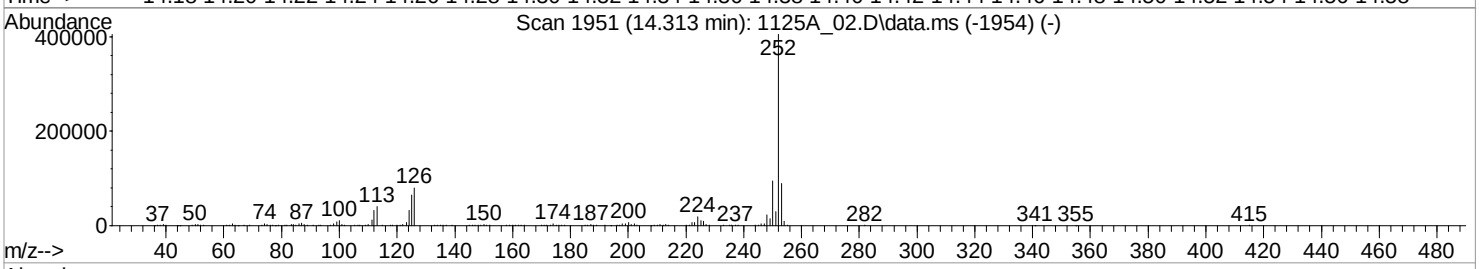


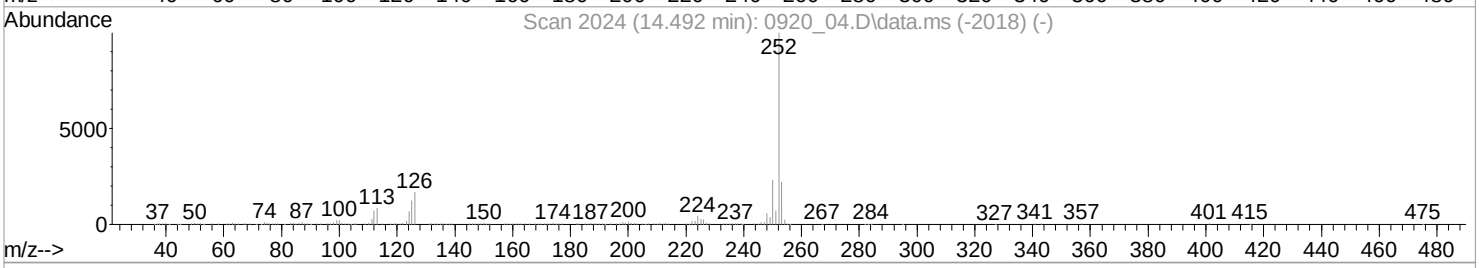
Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\data\112514A\
Data File : 1125A 02.D
Acq On    : 26 Nov 2014   6:26 am
Operator  : 377
Sample    : ICV SVMS 10K PPB 14K07412
Misc      : 8270 PRIMARY CALIBRATION
ALS Vial  : 3   Sample Multiplier: 1

Quant Time: Nov 26 06:45:24 2014
Quant Method : C:\msdchem\1\methods\S819K21N.M
Quant Title  : 8270 BNA
QLast Update : Fri Nov 21 15:09:20 2014
Response via : Initial Calibration
```







TIC: 1125A_02.D\data.ms

(89) Benzo(b)fluoranthene (MT)

14.313min (-0.018) 9766.3288537 ppb

Qvalue = 99

response 822251

Ion	Exp%	Act%
252.00	100	100
253.00	22.10	21.91
126.00	20.10	19.43
113.00	9.60	9.34

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\112514A\
Data File : 1125A 03.D
Acq On : 26 Nov 2014 6:49 am
Operator : 377
Sample : ICV TCL 10K1 PPB 14G21532
Misc : 8270 TCL CALIBRATION
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Nov 26 07:13:54 2014
Quant Method : C:\msdchem\1\methods\S819K21N.M
Quant Title : 8270 BNA
QLast Update : Fri Nov 21 15:09:20 2014
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 1,4-Dichlorobenzene-d4	5.378	152	119336	8000.0000000 ppb	0.00
22) Naphthalene-d8	6.654	136	505656	8000.0000000 ppb	0.00
40) Acenaphthene-d10	8.530	164	303920	8000.0000000 ppb	0.00
64) Phenanthrene-d10	10.148	188	499970	8000.0000000 ppb	0.00
78) Chrysene-d12	13.036	240	490041	8000.0000000 ppb	0.00
88) Perylene-d12	14.865	264	507419	8000.0000000 ppb	-0.02
System Monitoring Compounds					
4) 2-Fluorophenol	0.000	112	0	0.0000000 ppb	
Spiked Amount 20.000	Range 10 - 78		Recovery	= 0.00%#	
7) Phenol-d5	0.000	99	0	0.0000000 ppb	
Spiked Amount 20.000	Range 5 - 70		Recovery	= 0.00%#	
23) Nitrobenzene-d5	0.000	82	0	0.0000000 ppb	
Spiked Amount 10.000	Range 22 - 123		Recovery	= 0.00%#	
44) 2-Fluorobiphenyl	7.854	172	82	1.9003819 ppb	0.06
Spiked Amount 10.000	Range 30 - 131		Recovery	= 19.00%#	
67) 2,4,6-Tribromophenol	0.000	330	0	0.0000000 ppb	
Spiked Amount 20.000	Range 11 - 130		Recovery	= 0.00%#	
81) p-Terphenyl-d14	0.000	244	0	0.0000000 ppb	
Spiked Amount 10.000	Range 29 - 137		Recovery	= 0.00%#	
Target Compounds					Qvalue
2) Pyridine	0.000		0	N.D.	
3) N-Nitrosodimethylamine	0.000		0	N.D.	
5) Aniline	0.000		0	N.D.	
6) bis(2-Chloroethyl)ether	4.984	63	3092	193.5352267 ppb #	7
8) Phenol	5.007	94	208	8.8187260 ppb #	1
9) Benzaldehyde	4.984	105	102283	9466.6802010 ppb	97
10) 2-Chlorophenol	0.000		0	N.D.	
11) n-Decane	0.000		0	N.D.	
12) 1,3-Dichlorobenzene	0.000		0	N.D.	
13) 1,4-Dichlorobenzene	0.000		0	N.D.	
14) Benzyl Alcohol	0.000		0	N.D.	
15) 1,2-Dichlorobenzene	0.000		0	N.D.	
16) bis(2-Chloroisopropyl)...	0.000		0	N.D.	
17) 2-Methylphenol	0.000		0	N.D.	
18) Hexachloroethane	0.000		0	N.D.	
19) N-Nitrosodi-n-propylamine	0.000		0	N.D.	
20) 3&4-Methyl phenol	5.748	107	1426	69.9009668 ppb #	1
21) Acetophenone	5.754	105	297275	10019.5664010 ppb	98
24) Nitrobenzene	5.948	77	163	7.8642999 ppb #	43
25) Isophorone	0.000		0	N.D.	
26) 2-Nitrophenol	0.000		0	N.D.	
27) 2,4-Dimethylphenol	6.319	107	55	2.8365122 ppb #	1
28) bis(2-Chlorethoxy)methane	6.319	93	129	5.2080566 ppb #	1
29) 2,4-Dichlorophenol	0.000		0	N.D.	
30) Benzoic Acid	6.313	105	70848	6591.8628716 ppb	98
31) 1,2,4-Trichlorobenzene	6.589	180	610	32.7228877 ppb	90
32) Naphthalene	6.672	128	2888	44.3655813 ppb	96
33) 4-Chloroaniline	6.654	65	1352	175.5754787 ppb #	1
34) Hexachloro-1,3-butadiene	0.000		0	N.D.	
35) Caprolactam	7.048	113	62916	10086.9664490 ppb	98
36) 4-Chloro-3-methylphenol	0.000		0	N.D.	
37) 2-Methylnaphthalene	0.000		0	N.D.	

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\112514A\
Data File : 1125A 03.D
Acq On : 26 Nov 2014 6:49 am
Operator : 377
Sample : ICV TCL 10K1 PPB 14G21532
Misc : 8270 TCL CALIBRATION
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Nov 26 07:13:54 2014
Quant Method : C:\msdchem\1\methods\S819K21N.M
Quant Title : 8270 BNA
QLast Update : Fri Nov 21 15:09:20 2014
Response via : Initial Calibration

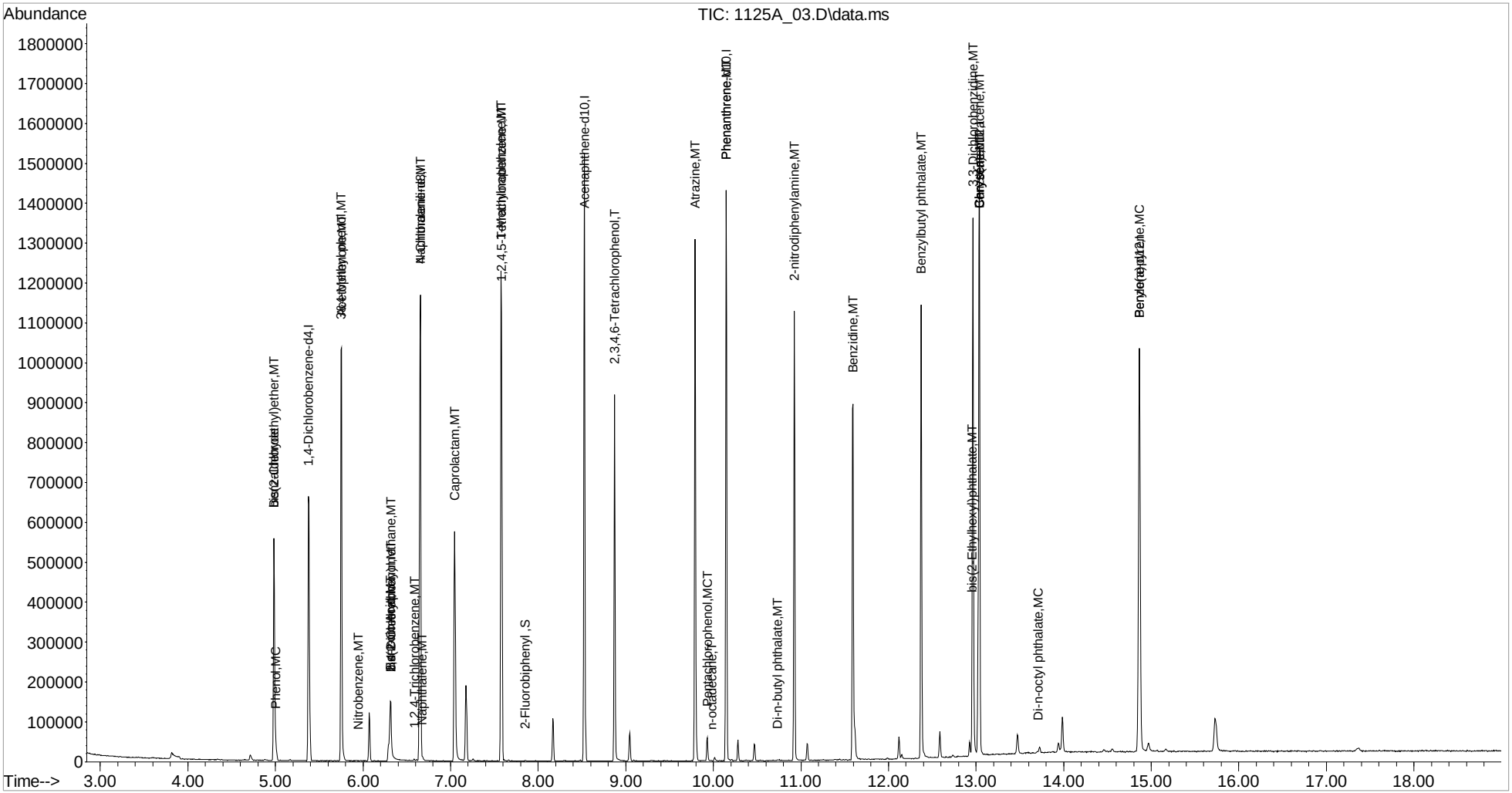
	Compound	R.T.	QIon	Response	Conc Units		Dev(Min)
38)	1-Methylnaphthalene	7.578	142	1454	35.4129694 ppb	#	38
39)	1,2,4,5-Tetrachloroben...	7.583	216	206197	10018.1807733 ppb		98
41)	Hexachlorocyclopentadiene	0.000		0	N.D.		
42)	2,4,6-Trichlorophenol	0.000		0	N.D.		
43)	2,4,5-Trichlorophenol	0.000		0	N.D.		
45)	Biphenyl	0.000		0	N.D.		
46)	2-Chloronaphthalene	0.000		0	N.D.		
47)	2-Nitroaniline	0.000		0	N.D.		
48)	Acenaphthylene	0.000		0	N.D.		
49)	Dimethyl phthalate	0.000		0	N.D.		
50)	2,6-Dinitrotoluene	0.000		0	N.D.		
51)	3-Nitroaniline	0.000		0	N.D.		
52)	Acenaphthene	0.000		0	N.D.		
53)	2,4-Dinitrophenol	0.000		0	N.D.		
54)	Dibenzofuran	0.000		0	N.D.		
55)	2,4-Dinitrotoluene	0.000		0	N.D.		
56)	2,3,4,6-Tetrachlorophenol	8.872	232	93618	11150.6571019 ppb		96
57)	4-Nitrophenol	0.000		0	N.D.		
58)	Fluorene	0.000		0	N.D.		
59)	4-Chlorophenyl-phenyle...	0.000		0	N.D.		
60)	Diethyl phthalate	0.000		0	N.D.		
61)	4-Nitroaniline	0.000		0	N.D.		
62)	Azobenzene	0.000		0	N.D.		
63)	Atrazine	9.789	200	125484	9548.9600524 ppb		88
65)	4,6-Dinitro-2-methylph...	0.000		0	N.D.		
66)	N-Nitrosodiphenylamine	0.000		0	N.D.		
68)	4-Bromophenyl-phenylether	0.000		0	N.D.		
69)	Hexachlorobenzene	0.000		0	N.D.		
70)	n-octadecane	9.983	55	79	9.6621230 ppb	#	28
71)	Pentachlorophenol	9.930	266	6321	1057.9580976 ppb		94
72)	Phenanthrene	10.148	178	156	2.3901177 ppb	#	1
73)	Anthracene	0.000		0	N.D.		
74)	Carbazole	0.000		0	N.D.		
75)	Di-n-butyl phthalate	10.730	149	163	2.1044175 ppb		78
76)	2-nitrodiphenylamine	10.924	167	142076	8086.1544541 ppb		97
77)	Fluoranthene	0.000		0	N.D.		
79)	Benzidine	11.595	184	381791	8751.4602573 ppb		100
80)	Pyrene	0.000		0	N.D.		
82)	Benzylbutyl phthalate	12.371	149	241	6.8658726 ppb	#	1
83)	3,3-Dichlorobenzidine	12.965	252	274411	9727.2736577 ppb		98
84)	Benzo(a)anthracene	13.036	228	1374	20.1067275 ppb	#	1
85)	Chrysene	13.036	228	1374	21.7658507 ppb		72
86)	bis(2-Ethylhexyl)phtha...	12.954	149	5973	109.0943884 ppb		95
87)	Di-n-octyl phthalate	13.707	149	744	8.6945446 ppb		74
89)	Benzo(b)fluoranthene	0.000		0	N.D.		
90)	Benzo(k)fluoranthene	0.000		0	N.D.		
91)	Benzo(a)pyrene	14.865	252	1765	28.5080544 ppb	#	1
92)	Indeno(1,2,3-cd)pyrene	0.000		0	N.D.		
93)	Dibenz(a,h)anthracene	0.000		0	N.D.		
94)	Benzo(g,h,i)perylene	0.000		0	N.D.		

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\112514A\
Data File : 1125A 03.D
Acq On : 26 Nov 2014 6:49 am
Operator : 377
Sample : ICV TCL 10K1 PPB 14G21532
Misc : 8270 TCL CALIBRATION
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Nov 26 07:13:54 2014
Quant Method : C:\msdchem\1\methods\S819K21N.M
Quant Title : 8270 BNA
QLast Update : Fri Nov 21 15:09:20 2014
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\112514A\
Data File : 1125A 04.D
Acq On : 26 Nov 2014 7:15 am
Operator : 377
Sample : LCS 1x WG756405 100-0.5
Misc : water 14K08418/14K19022
ALS Vial : 138 Sample Multiplier: 0.005

Quant Time: Nov 26 11:24:28 2014
Quant Method : C:\msdchem\1\methods\S819K21N.M
Quant Title : 8270 BNA
QLast Update : Fri Nov 21 15:09:20 2014
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 1,4-Dichlorobenzene-d4	5.378	152	134531	8000.0000000 ppb	0.00
22) Naphthalene-d8	6.654	136	580403	8000.0000000 ppb	0.00
40) Acenaphthene-d10	8.531	164	368584	8000.0000000 ppb	0.00
64) Phenanthrene-d10	10.148	188	611143	8000.0000000 ppb	0.00
78) Chrysene-d12	13.036	240	600075	8000.0000000 ppb	0.00
88) Perylene-d12	14.865	264	632903	8000.0000000 ppb	-0.02
System Monitoring Compounds					
4) 2-Fluorophenol	4.260	112	35028	8.8288365 ppb	0.00
Spiked Amount 20.000	Range 10 - 78		Recovery = 44.14%		
7) Phenol-d5	4.990	99	36027	6.9618815 ppb	0.00
Spiked Amount 20.000	Range 5 - 70		Recovery = 34.81%		
23) Nitrobenzene-d5	5.907	82	31518	6.7714391 ppb	0.00
Spiked Amount 10.000	Range 22 - 123		Recovery = 67.71%		
44) 2-Fluorobiphenyl	7.784	172	73251	6.9989583 ppb	-0.01
Spiked Amount 10.000	Range 30 - 131		Recovery = 69.99%		
67) 2,4,6-Tribromophenol	9.383	330	17636	12.8858090 ppb	0.00
Spiked Amount 20.000	Range 11 - 130		Recovery = 64.43%		
81) p-Terphenyl-d14	11.860	244	78070	6.4032885 ppb	-0.02
Spiked Amount 10.000	Range 29 - 137		Recovery = 64.03%		
Target Compounds					Qvalue
2) Pyridine	3.319	79	57458	10.5542716 ppb	99
3) N-Nitrosodimethylamine	3.290	74	31202	11.7048750 ppb	95
5) Aniline	5.072	66	41430	16.6216659 ppb	99
6) bis(2-Chloroethyl)ether	5.113	63	66618	18.4940165 ppb	98
8) Phenol	5.001	94	53195	10.0030499 ppb	96
9) Benzaldehyde	4.984	105	52777	21.6649684 ppb	97
10) 2-Chlorophenol	5.178	128	76631	16.4742187 ppb	95
11) n-Decane	5.201	55	17560	17.1782665 ppb	98
12) 1,3-Dichlorobenzene	5.331	146	84963	16.3041725 ppb	97
13) 1,4-Dichlorobenzene	5.395	146	88761	16.7298154 ppb	97
14) Benzyl Alcohol	5.484	79	59350	16.0869501 ppb	98
15) 1,2-Dichlorobenzene	5.543	146	84909	16.6461639 ppb	97
16) bis(2-Chloroisopropyl)...	5.619	121	27832	18.0593185 ppb	99
17) 2-Methylphenol	5.572	108	66507	15.9649646 ppb	98
18) Hexachloroethane	5.878	117	37098	16.2554011 ppb	99
19) N-Nitrosodi-n-propylamine	5.737	70	52758	18.4225441 ppb	95
20) 3&4-Methyl phenol	5.719	107	77863	16.9283216 ppb	90
21) Acetophenone	5.748	105	113209	16.9235163 ppb	97
24) Nitrobenzene	5.925	77	88568	18.6142190 ppb	99
25) Isophorone	6.160	82	171909	20.7685067 ppb	99
26) 2-Nitrophenol	6.248	139	39904	16.4356750 ppb	97
27) 2,4-Dimethylphenol	6.260	107	82219	18.4709687 ppb	98
28) bis(2-Chlorethoxy)methane	6.366	93	106098	18.6590146 ppb	100
29) 2,4-Dichlorophenol	6.484	162	67192	17.8985493 ppb	97
30) Benzoic Acid	6.260	105	3057	2.3063552 ppb #	1
31) 1,2,4-Trichlorobenzene	6.584	180	72831	17.0189821 ppb	98
32) Naphthalene	6.672	128	260982	17.4644560 ppb	100
33) 4-Chloroaniline	6.713	65	31595	17.8731479 ppb #	84
34) Hexachloro-1,3-butadiene	6.795	225	36900	15.6997907 ppb	98
35) Caprolactam	7.042	113	6741	4.7078143 ppb	93
36) 4-Chloro-3-methylphenol	7.201	107	75149	18.9370439 ppb	98
37) 2-Methylnaphthalene	7.401	142	177439	17.6861689 ppb	99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\112514A\
Data File : 1125A 04.D
Acq On : 26 Nov 2014 7:15 am
Operator : 377
Sample : LCS 1x WG756405 100-0.5
Misc : water 14K08418/14K19022
ALS Vial : 138 Sample Multiplier: 0.005

Quant Time: Nov 26 11:24:28 2014
Quant Method : C:\msdchem\1\methods\S819K21N.M
Quant Title : 8270 BNA
QLast Update : Fri Nov 21 15:09:20 2014
Response via : Initial Calibration

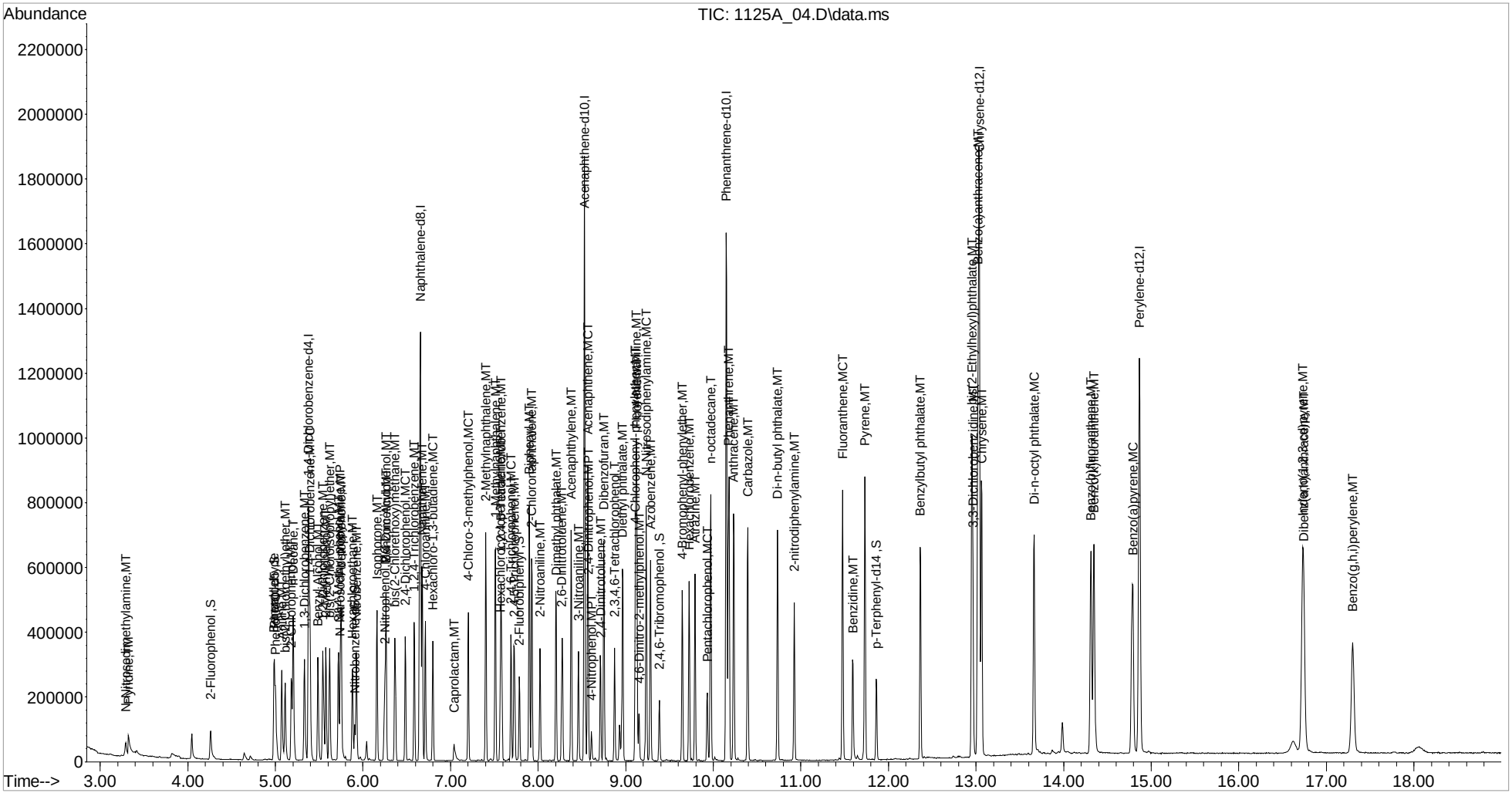
Compound	R.T.	QIon	Response	Conc Units		Dev(Min)
38) 1-Methylnaphthalene	7.513	142	186391	19.7750867 ppb		99
39) 1,2,4,5-Tetrachloroben...	7.578	216	75822	16.0471266 ppb		100
41) Hexachlorocyclopentadiene	7.572	237	26049	10.3902513 ppb		96
42) 2,4,6-Trichlorophenol	7.689	196	47491	18.0612731 ppb		99
43) 2,4,5-Trichlorophenol	7.731	196	51297	17.9283983 ppb		95
45) Biphenyl	7.895	154	237180	19.8056215 ppb		99
46) 2-Chloronaphthalene	7.925	162	178447	19.2578320 ppb		96
47) 2-Nitroaniline	8.019	138	54693	17.3097245 ppb		97
48) Acenaphthylene	8.378	152	288256	19.7178204 ppb		100
49) Dimethyl phthalate	8.207	163	204693	19.4194197 ppb		97
50) 2,6-Dinitrotoluene	8.272	165	42879	17.2175413 ppb		90
51) 3-Nitroaniline	8.460	138	46672	16.3682863 ppb		97
52) Acenaphthene	8.566	153	191645	18.9521298 ppb		99
53) 2,4-Dinitrophenol	8.572	184	5614	11.3964688 ppb	#	1
54) Dibenzofuran	8.748	168	258939	19.4521917 ppb		97
55) 2,4-Dinitrotoluene	8.713	165	53541	16.7277356 ppb		99
56) 2,3,4,6-Tetrachlorophenol	8.872	232	35481	17.4232737 ppb		92
57) 4-Nitrophenol	8.607	139	13404	6.1072143 ppb		89
58) Fluorene	9.125	166	215287	19.1664993 ppb		98
59) 4-Chlorophenyl-phenyle...	9.107	204	93563	18.5404477 ppb		94
60) Diethyl phthalate	8.960	149	222999	19.8711507 ppb		99
61) 4-Nitroaniline	9.119	138	50526	19.5069775 ppb		100
62) Azobenzene	9.283	77	223672	19.2242230 ppb		97
63) Atrazine	9.789	200	54131	16.9826938 ppb		91
65) 4,6-Dinitro-2-methylph...	9.154	198	18792	16.2154406 ppb	#	80
66) N-Nitrosodiphenylamine	9.231	169	175770	19.8511340 ppb		100
68) 4-Bromophenyl-phenylether	9.642	248	53068	18.9452087 ppb		90
69) Hexachlorobenzene	9.725	284	64660	20.4793667 ppb		98
70) n-octadecane	9.972	55	38693	19.3574873 ppb		96
71) Pentachlorophenol	9.930	266	23177	14.5819283 ppb		98
72) Phenanthrene	10.178	178	320032	20.0566870 ppb		100
73) Anthracene	10.230	178	306307	19.1208237 ppb		100
74) Carbazole	10.395	167	287690	20.0777274 ppb		99
75) Di-n-butyl phthalate	10.730	149	358773	18.9467687 ppb		100
76) 2-nitrodiphenylamine	10.925	167	58726	15.5922064 ppb		95
77) Fluoranthene	11.477	202	325154	19.2596264 ppb		99
79) Benzidine	11.595	184	135544	15.5536064 ppb		99
80) Pyrene	11.730	202	345582	19.9749228 ppb		99
82) Benzylbutyl phthalate	12.360	149	161772	18.8182373 ppb		96
83) 3,3-Dichlorobenzidine	12.966	252	112255	16.2477115 ppb		99
84) Benzo(a)anthracene	13.024	228	326668	19.5190259 ppb		100
85) Chrysene	13.066	228	314022	20.3116815 ppb		99
86) bis(2-Ethylhexyl)phtha...	12.954	149	246471	18.3811472 ppb		99
87) Di-n-octyl phthalate	13.666	149	395111	18.8534100 ppb		100
89) Benzo(b)fluoranthene	14.313	252	325209	19.4143184 ppb		99
90) Benzo(k)fluoranthene	14.348	252	315200	19.6833013 ppb		99
91) Benzo(a)pyrene	14.789	252	305742	19.7960046 ppb		99
92) Indeno(1,2,3-cd)pyrene	16.730	276	348978	20.8426210 ppb		99
93) Dibenz(a,h)anthracene	16.742	278	291682	20.4589667 ppb		97
94) Benzo(g,h,i)perylene	17.301	276	295016	21.0420651 ppb		99

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\112514A\
Data File : 1125A 04.D
Acq On : 26 Nov 2014 7:15 am
Operator : 377
Sample : LCS 1x WG756405 100-0.5
Misc : water 14K08418/14K19022
ALS Vial : 138 Sample Multiplier: 0.005

Quant Time: Nov 26 11:24:28 2014
Quant Method : C:\msdchem\1\methods\S819K21N.M
Quant Title : 8270 BNA
QLast Update : Fri Nov 21 15:09:20 2014
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\112514A\
Data File : 1125A 05.D
Acq On : 26 Nov 2014 7:39 am
Operator : 377
Sample : LCSD 1x WG756405 100-0.5
Misc : water 14K08418/14K19022
ALS Vial : 139 Sample Multiplier: 0.005

Quant Time: Nov 26 11:24:35 2014
Quant Method : C:\msdchem\1\methods\S819K21N.M
Quant Title : 8270 BNA
QLast Update : Fri Nov 21 15:09:20 2014
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 1,4-Dichlorobenzene-d4	5.378	152	137003	8000.0000000 ppb	0.00
22) Naphthalene-d8	6.654	136	597557	8000.0000000 ppb	0.00
40) Acenaphthene-d10	8.531	164	372302	8000.0000000 ppb	0.00
64) Phenanthrene-d10	10.148	188	626044	8000.0000000 ppb	0.00
78) Chrysene-d12	13.036	240	608079	8000.0000000 ppb	0.00
88) Perylene-d12	14.866	264	646212	8000.0000000 ppb	-0.02
System Monitoring Compounds					
4) 2-Fluorophenol	4.260	112	35428	8.7685355 ppb	0.00
Spiked Amount 20.000	Range 10 - 78		Recovery = 43.84%		
7) Phenol-d5	4.990	99	38354	7.2778229 ppb	0.00
Spiked Amount 20.000	Range 5 - 70		Recovery = 36.39%		
23) Nitrobenzene-d5	5.907	82	32004	6.6784687 ppb	0.00
Spiked Amount 10.000	Range 22 - 123		Recovery = 66.78%		
44) 2-Fluorobiphenyl	7.784	172	76655	7.2510591 ppb	-0.01
Spiked Amount 10.000	Range 30 - 131		Recovery = 72.51%		
67) 2,4,6-Tribromophenol	9.384	330	19391	13.8308793 ppb	0.00
Spiked Amount 20.000	Range 11 - 130		Recovery = 69.15%		
81) p-Terphenyl-d14	11.860	244	80382	6.5061373 ppb	-0.02
Spiked Amount 10.000	Range 29 - 137		Recovery = 65.06%		
Target Compounds					Qvalue
2) Pyridine	3.319	79	56611	10.2110613 ppb	97
3) N-Nitrosodimethylamine	3.284	74	32293	11.8955639 ppb	96
5) Aniline	5.072	66	42763	16.8469030 ppb	100
6) bis(2-Chloroethyl)ether	5.113	63	66488	18.1248831 ppb	98
8) Phenol	5.001	94	56775	10.4836149 ppb	97
9) Benzaldehyde	4.984	105	54449	21.9480308 ppb	98
10) 2-Chlorophenol	5.178	128	79862	16.8590388 ppb	95
11) n-Decane	5.201	55	17540	16.8490999 ppb	100
12) 1,3-Dichlorobenzene	5.331	146	86439	16.2881196 ppb	96
13) 1,4-Dichlorobenzene	5.396	146	88513	16.3820526 ppb	98
14) Benzyl Alcohol	5.484	79	61502	16.3694664 ppb	98
15) 1,2-Dichlorobenzene	5.543	146	86540	16.6597939 ppb	98
16) bis(2-Chloroisopropyl)...	5.619	121	28104	17.9067748 ppb	96
17) 2-Methylphenol	5.572	108	70621	16.6466466 ppb	98
18) Hexachloroethane	5.878	117	37529	16.1475441 ppb	98
19) N-Nitrosodi-n-propylamine	5.737	70	55662	19.0858885 ppb	96
20) 3&4-Methyl phenol	5.719	107	82461	17.6044985 ppb	90
21) Acetophenone	5.748	105	115306	16.9259811 ppb	96
24) Nitrobenzene	5.925	77	91312	18.6400103 ppb	98
25) Isophorone	6.160	82	178014	20.8886862 ppb	100
26) 2-Nitrophenol	6.248	139	41573	16.6315524 ppb	98
27) 2,4-Dimethylphenol	6.260	107	86918	18.9660773 ppb	98
28) bis(2-Chlorethoxy)methane	6.366	93	108912	18.6040522 ppb	99
29) 2,4-Dichlorophenol	6.484	162	70491	18.2382954 ppb	96
30) Benzoic Acid	6.260	105	3147	2.3062140 ppb #	1
31) 1,2,4-Trichlorobenzene	6.584	180	73902	16.7735045 ppb	98
32) Naphthalene	6.672	128	267830	17.4082069 ppb	100
33) 4-Chloroaniline	6.713	65	33047	18.1578758 ppb #	85
34) Hexachloro-1,3-butadiene	6.795	225	37664	15.5648252 ppb	98
35) Caprolactam	7.043	113	7349	4.9850963 ppb	96
36) 4-Chloro-3-methylphenol	7.201	107	79353	19.4223887 ppb	96
37) 2-Methylnaphthalene	7.401	142	183515	17.7666917 ppb	99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\112514A\
Data File : 1125A 05.D
Acq On : 26 Nov 2014 7:39 am
Operator : 377
Sample : LCSD 1x WG756405 100-0.5
Misc : water 14K08418/14K19022
ALS Vial : 139 Sample Multiplier: 0.005

Quant Time: Nov 26 11:24:35 2014
Quant Method : C:\msdchem\1\methods\S819K21N.M
Quant Title : 8270 BNA
QLast Update : Fri Nov 21 15:09:20 2014
Response via : Initial Calibration

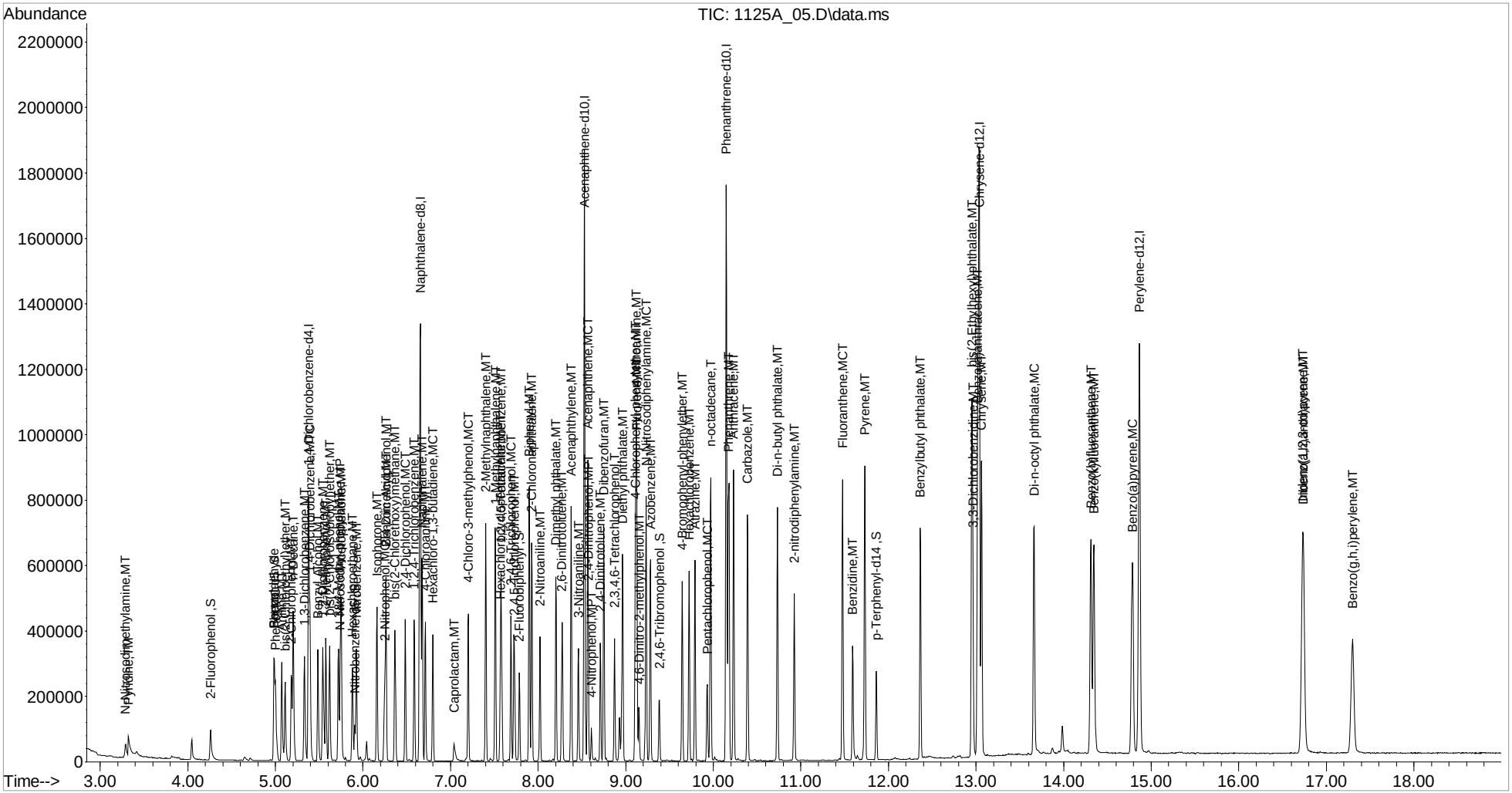
Compound	R.T.	QIon	Response	Conc Units		Dev(Min)
38) 1-Methylnaphthalene	7.513	142	193723	19.9629608 ppb		98
39) 1,2,4,5-Tetrachloroben...	7.578	216	78389	16.1141528 ppb		99
41) Hexachlorocyclopentadiene	7.572	237	27043	10.6790095 ppb		96
42) 2,4,6-Trichlorophenol	7.690	196	51330	19.3263313 ppb		98
43) 2,4,5-Trichlorophenol	7.731	196	56022	19.3842608 ppb		96
45) Biphenyl	7.895	154	244921	20.2477860 ppb		100
46) 2-Chloronaphthalene	7.925	162	185655	19.8356256 ppb		97
47) 2-Nitroaniline	8.019	138	59075	18.5098649 ppb		99
48) Acenaphthylene	8.378	152	303669	20.5646877 ppb		99
49) Dimethyl phthalate	8.201	163	215647	20.2543256 ppb		97
50) 2,6-Dinitrotoluene	8.272	165	46411	18.4496665 ppb		90
51) 3-Nitroaniline	8.460	138	49568	17.2103343 ppb		98
52) Acenaphthene	8.566	153	199987	19.5795814 ppb		98
53) 2,4-Dinitrophenol	8.572	184	5234	11.0950003 ppb	#	1
54) Dibenzofuran	8.748	168	269326	20.0304389 ppb		99
55) 2,4-Dinitrotoluene	8.707	165	57794	17.8761726 ppb		89
56) 2,3,4,6-Tetrachlorophenol	8.872	232	38070	18.5079320 ppb		94
57) 4-Nitrophenol	8.607	139	14191	6.4012215 ppb		94
58) Fluorene	9.125	166	226254	19.9417086 ppb		100
59) 4-Chlorophenyl-phenyle...	9.107	204	97905	19.2071116 ppb		96
60) Diethyl phthalate	8.960	149	235652	20.7889397 ppb		99
61) 4-Nitroaniline	9.119	138	54112	20.6828204 ppb		99
62) Azobenzene	9.284	77	236548	20.1278582 ppb		96
63) Atrazine	9.789	200	58047	18.0294059 ppb		91
65) 4,6-Dinitro-2-methylph...	9.154	198	20487	16.8692023 ppb	#	86
66) N-Nitrosodiphenylamine	9.231	169	185609	20.4633901 ppb		99
68) 4-Bromophenyl-phenylether	9.642	248	56826	19.8039465 ppb		94
69) Hexachlorobenzene	9.725	284	66436	20.5410331 ppb		99
70) n-octadecane	9.972	55	40195	19.6302846 ppb		98
71) Pentachlorophenol	9.931	266	25971	15.8905120 ppb		98
72) Phenanthrene	10.178	178	331446	20.2776003 ppb		99
73) Anthracene	10.231	178	327161	19.9365124 ppb		99
74) Carbazole	10.389	167	308125	20.9920430 ppb		99
75) Di-n-butyl phthalate	10.730	149	381776	19.6816729 ppb		99
76) 2-nitrodiphenylamine	10.925	167	63698	16.3390084 ppb		96
77) Fluoranthene	11.478	202	342614	19.8107924 ppb		99
79) Benzidine	11.589	184	143945	16.1063636 ppb		100
80) Pyrene	11.730	202	363705	20.7457335 ppb		99
82) Benzylbutyl phthalate	12.360	149	173519	19.9190284 ppb		98
83) 3,3-Dichlorobenzidine	12.966	252	119835	17.1165296 ppb		98
84) Benzo(a)anthracene	13.019	228	342084	20.1711118 ppb		98
85) Chrysene	13.060	228	323575	20.6541007 ppb		98
86) bis(2-Ethylhexyl)phtha...	12.954	149	268211	19.7391705 ppb		99
87) Di-n-octyl phthalate	13.666	149	424318	19.9805654 ppb		100
89) Benzo(b)fluoranthene	14.313	252	349420	20.4300527 ppb		97
90) Benzo(k)fluoranthene	14.348	252	324592	19.8523389 ppb		98
91) Benzo(a)pyrene	14.783	252	323108	20.4895439 ppb		99
92) Indeno(1,2,3-cd)pyrene	16.730	276	363718	21.2755703 ppb		98
93) Dibenz(a,h)anthracene	16.736	278	307726	21.1397766 ppb		98
94) Benzo(g,h,i)perylene	17.301	276	307090	21.4521388 ppb		99

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\112514A\
Data File : 1125A 05.D
Acq On : 26 Nov 2014 7:39 am
Operator : 377
Sample : LCSD 1x WG756405 100-0.5
Misc : water 14K08418/14K19022
ALS Vial : 139 Sample Multiplier: 0.005

Quant Time: Nov 26 11:24:35 2014
Quant Method : C:\msdchem\1\methods\S819K21N.M
Quant Title : 8270 BNA
QLast Update : Fri Nov 21 15:09:20 2014
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\112514A\
Data File : 1125A 06.D
Acq On : 26 Nov 2014 8:03 am
Operator : 377
Sample : BLANK 1x WG756405 100-0.5
Misc : water 14K08418/14K19022
ALS Vial : 140 Sample Multiplier: 0.005

Quant Time: Nov 26 13:56:46 2014
Quant Method : C:\msdchem\1\methods\S819K21N.M
Quant Title : 8270 BNA
QLast Update : Fri Nov 21 15:09:20 2014
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 1,4-Dichlorobenzene-d4	5.378	152	135015	8000.0000000 ppb	0.00
22) Naphthalene-d8	6.654	136	583064	8000.0000000 ppb	0.00
40) Acenaphthene-d10	8.531	164	360024	8000.0000000 ppb	0.00
64) Phenanthrene-d10	10.148	188	598653	8000.0000000 ppb	0.00
78) Chrysene-d12	13.036	240	570297	8000.0000000 ppb	0.00
88) Perylene-d12	14.865	264	617303	8000.0000000 ppb	-0.02
System Monitoring Compounds					
4) 2-Fluorophenol	4.260	112	33191	8.3358295 ppb	0.00
Spiked Amount 20.000	Range 10 - 78		Recovery = 41.68%		
7) Phenol-d5	4.990	99	34672	6.6760222 ppb	0.00
Spiked Amount 20.000	Range 5 - 70		Recovery = 33.38%		
23) Nitrobenzene-d5	5.907	82	29560	6.3217916 ppb	0.00
Spiked Amount 10.000	Range 22 - 123		Recovery = 63.22%		
44) 2-Fluorobiphenyl	7.784	172	70204	6.8673113 ppb	-0.01
Spiked Amount 10.000	Range 30 - 131		Recovery = 68.67%		
67) 2,4,6-Tribromophenol	9.383	330	14044	10.4753876 ppb	0.00
Spiked Amount 20.000	Range 11 - 130		Recovery = 52.38%		
81) p-Terphenyl-d14	11.860	244	70723	6.1035711 ppb	-0.02
Spiked Amount 10.000	Range 29 - 137		Recovery = 61.04%		
Target Compounds					Qvalue
2) Pyridine	0.000		0	N.D.	
3) N-Nitrosodimethylamine	0.000		0	N.D.	
5) Aniline	0.000		0	N.D. d	
6) bis(2-Chloroethyl)ether	0.000		0	N.D.	
8) Phenol	5.007	94	72	N.D.	
9) Benzaldehyde	0.000		0	N.D.	
10) 2-Chlorophenol	0.000		0	N.D.	
11) n-Decane	5.201	55	778	0.7583589 ppb #	71
12) 1,3-Dichlorobenzene	0.000		0	N.D.	
13) 1,4-Dichlorobenzene	0.000		0	N.D.	
14) Benzyl Alcohol	0.000		0	N.D.	
15) 1,2-Dichlorobenzene	0.000		0	N.D.	
16) bis(2-Chloroisopropyl)...	0.000		0	N.D.	
17) 2-Methylphenol	0.000		0	N.D.	
18) Hexachloroethane	0.000		0	N.D.	
19) N-Nitrosodi-n-propylamine	0.000		0	N.D.	
20) 3&4-Methyl phenol	0.000		0	N.D.	
21) Acetophenone	5.754	105	336	N.D.	
24) Nitrobenzene	0.000		0	N.D.	
25) Isophorone	0.000		0	N.D.	
26) 2-Nitrophenol	0.000		0	N.D.	
27) 2,4-Dimethylphenol	0.000		0	N.D.	
28) bis(2-Chlorethoxy)methane	0.000		0	N.D.	
29) 2,4-Dichlorophenol	0.000		0	N.D.	
30) Benzoic Acid	0.000		0	N.D.	
31) 1,2,4-Trichlorobenzene	0.000		0	N.D.	
32) Naphthalene	6.672	128	3520	0.2344772 ppb	96
33) 4-Chloroaniline	0.000		0	N.D. d	
34) Hexachloro-1,3-butadiene	0.000		0	N.D.	
35) Caprolactam	0.000		0	N.D.	
36) 4-Chloro-3-methylphenol	0.000		0	N.D.	
37) 2-Methylnaphthalene	7.401	142	230	N.D.	

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\112514A\
Data File : 1125A 06.D
Acq On : 26 Nov 2014 8:03 am
Operator : 377
Sample : BLANK 1x WG756405 100-0.5
Misc : water 14K08418/14K19022
ALS Vial : 140 Sample Multiplier: 0.005

Quant Time: Nov 26 13:56:46 2014
Quant Method : C:\msdchem\1\methods\S819K21N.M
Quant Title : 8270 BNA
QLast Update : Fri Nov 21 15:09:20 2014
Response via : Initial Calibration

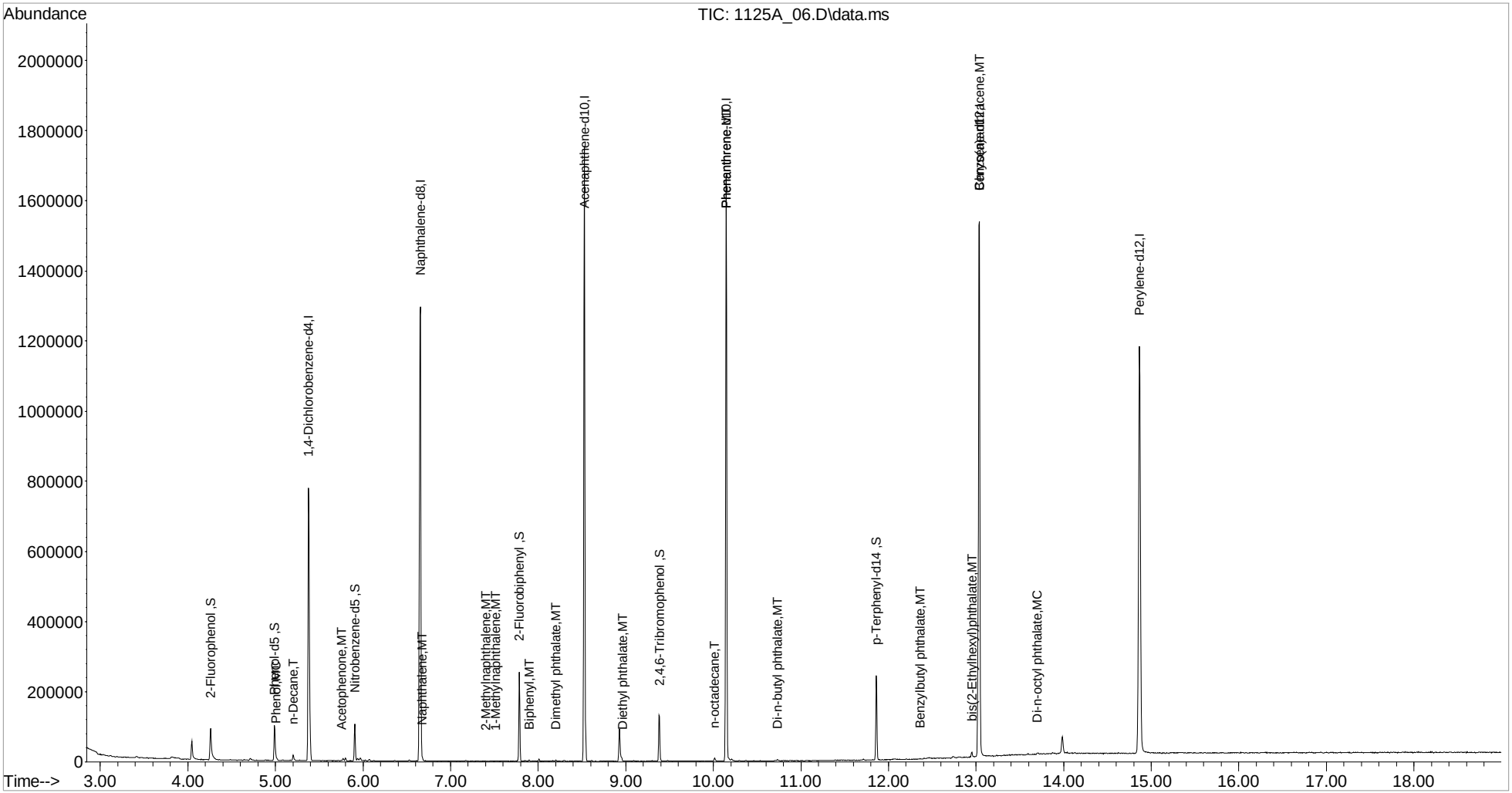
	Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
38)	1-Methylnaphthalene	7.513	142	59	N.D.	
39)	1,2,4,5-Tetrachloroben...	0.000		0	N.D.	
41)	Hexachlorocyclopentadiene	0.000		0	N.D.	
42)	2,4,6-Trichlorophenol	0.000		0	N.D.	
43)	2,4,5-Trichlorophenol	0.000		0	N.D.	
45)	Biphenyl	7.895	154	1249	N.D.	
46)	2-Chloronaphthalene	0.000		0	N.D.	
47)	2-Nitroaniline	0.000		0	N.D.	
48)	Acenaphthylene	0.000		0	N.D.	
49)	Dimethyl phthalate	8.201	163	1724	0.1674463 ppb	93
50)	2,6-Dinitrotoluene	0.000		0	N.D.	
51)	3-Nitroaniline	0.000		0	N.D.	
52)	Acenaphthene	0.000		0	N.D.	
53)	2,4-Dinitrophenol	0.000		0	N.D.	
54)	Dibenzofuran	0.000		0	N.D.	
55)	2,4-Dinitrotoluene	0.000		0	N.D.	
56)	2,3,4,6-Tetrachlorophenol	0.000		0	N.D.	
57)	4-Nitrophenol	0.000		0	N.D.	
58)	Fluorene	0.000		0	N.D.	
59)	4-Chlorophenyl-phenyle...	0.000		0	N.D.	
60)	Diethyl phthalate	8.960	149	265	N.D.	
61)	4-Nitroaniline	0.000		0	N.D.	
62)	Azobenzene	0.000		0	N.D.	
63)	Atrazine	0.000		0	N.D.	
65)	4,6-Dinitro-2-methylph...	0.000		0	N.D.	
66)	N-Nitrosodiphenylamine	0.000		0	N.D.	
68)	4-Bromophenyl-phenylether	0.000		0	N.D.	
69)	Hexachlorobenzene	0.000		0	N.D.	
70)	n-octadecane	10.013	55	54	N.D.	
71)	Pentachlorophenol	0.000		0	N.D.	
72)	Phenanthrene	10.148	178	217	N.D.	
73)	Anthracene	0.000		0	N.D.	
74)	Carbazole	0.000		0	N.D.	
75)	Di-n-butyl phthalate	10.730	149	2356	N.D.	
76)	2-nitrodiphenylamine	0.000		0	N.D.	
77)	Fluoranthene	0.000		0	N.D.	
79)	Benzidine	0.000		0	N.D.	
80)	Pyrene	0.000		0	N.D.	
82)	Benzylbutyl phthalate	12.360	149	57	N.D.	
83)	3,3-Dichlorobenzidine	0.000		0	N.D.	
84)	Benzo(a)anthracene	13.036	228	1475	N.D.	
85)	Chrysene	0.000		0	N.D. d	
86)	bis(2-Ethylhexyl)phtha...	12.954	149	4345	0.3409581 ppb	97
87)	Di-n-octyl phthalate	13.701	149	705	N.D.	
89)	Benzo(b)fluoranthene	0.000		0	N.D.	
90)	Benzo(k)fluoranthene	0.000		0	N.D.	
91)	Benzo(a)pyrene	0.000		0	N.D. d	
92)	Indeno(1,2,3-cd)pyrene	0.000		0	N.D.	
93)	Dibenz(a,h)anthracene	0.000		0	N.D.	
94)	Benzo(g,h,i)perylene	0.000		0	N.D.	

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\112514A\
Data File : 1125A 06.D
Acq On : 26 Nov 2014 8:03 am
Operator : 377
Sample : BLANK 1x WG756405 100-0.5
Misc : water 14K08418/14K19022
ALS Vial : 140 Sample Multiplier: 0.005

Quant Time: Nov 26 13:56:46 2014
Quant Method : C:\msdchem\1\methods\S819K21N.M
Quant Title : 8270 BNA
QLast Update : Fri Nov 21 15:09:20 2014
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\112514A\
Data File : 1125A 19.D
Acq On : 26 Nov 2014 1:13 pm
Operator : 377
Sample : L735181-02 1x WG756405 100-0.5
Misc : water 14K08418/14K19022
ALS Vial : 7 Sample Multiplier: 0.005

Quant Time: Nov 26 14:17:46 2014
Quant Method : C:\msdchem\1\methods\S819K21N.M
Quant Title : 8270 BNA
QLast Update : Fri Nov 21 15:09:20 2014
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 1,4-Dichlorobenzene-d4	5.378	152	121149	8000.0000000 ppb	0.00
22) Naphthalene-d8	6.648	136	519481	8000.0000000 ppb	0.00
40) Acenaphthene-d10	8.531	164	322162	8000.0000000 ppb	0.00
64) Phenanthrene-d10	10.148	188	534968	8000.0000000 ppb	0.00
78) Chrysene-d12	13.036	240	519366	8000.0000000 ppb	0.00
88) Perylene-d12	14.865	264	552248	8000.0000000 ppb	-0.02
System Monitoring Compounds					
4) 2-Fluorophenol	4.260	112	29596	8.2836872 ppb	0.00
Spiked Amount 20.000	Range 10 - 78		Recovery = 41.42%		
7) Phenol-d5	4.990	99	28656	6.1491719 ppb	0.00
Spiked Amount 20.000	Range 5 - 70		Recovery = 30.75%		
23) Nitrobenzene-d5	5.907	82	29622	7.1104434 ppb	0.00
Spiked Amount 10.000	Range 22 - 123		Recovery = 71.10%		
44) 2-Fluorobiphenyl	7.784	172	70274	7.6820422 ppb	-0.01
Spiked Amount 10.000	Range 30 - 131		Recovery = 76.82%		
67) 2,4,6-Tribromophenol	9.383	330	16915	14.1188278 ppb	0.00
Spiked Amount 20.000	Range 11 - 130		Recovery = 70.59%		
81) p-Terphenyl-d14	11.860	244	75052	7.1123509 ppb	-0.02
Spiked Amount 10.000	Range 29 - 137		Recovery = 71.12%		
Target Compounds					Qvalue
2) Pyridine	0.000		0	N.D.	
3) N-Nitrosodimethylamine	0.000		0	N.D.	
5) Aniline	4.990	66	1574	0.7012403 ppb #	1
6) bis(2-Chloroethyl)ether	5.160	63	57	N.D.	
8) Phenol	5.001	94	154	N.D.	
9) Benzaldehyde	4.984	105	155	N.D.	
10) 2-Chlorophenol	0.000		0	N.D. d	
11) n-Decane	5.160	55	7098	7.7106920 ppb #	1
12) 1,3-Dichlorobenzene	5.337	146	305	N.D.	
13) 1,4-Dichlorobenzene	5.395	146	505	N.D.	
14) Benzyl Alcohol	5.490	79	113	N.D.	
15) 1,2-Dichlorobenzene	5.543	146	264	N.D.	
16) bis(2-Chloroisopropyl)...	0.000		0	N.D.	
17) 2-Methylphenol	0.000		0	N.D.	
18) Hexachloroethane	5.919	117	222	N.D.	
19) N-Nitrosodi-n-propylamine	5.701	70	207	N.D.	
20) 3&4-Methyl phenol	0.000		0	N.D.	
21) Acetophenone	5.748	105	198	N.D.	
24) Nitrobenzene	5.907	77	131	N.D.	
25) Isophorone	6.160	82	245	N.D.	
26) 2-Nitrophenol	6.172	139	116	N.D.	
27) 2,4-Dimethylphenol	0.000		0	N.D.	
28) bis(2-Chlorethoxy)methane	0.000		0	N.D.	
29) 2,4-Dichlorophenol	0.000		0	N.D.	
30) Benzoic Acid	0.000		0	N.D. d	
31) 1,2,4-Trichlorobenzene	0.000		0	N.D.	
32) Naphthalene	6.672	128	3052	0.2281860 ppb	92
33) 4-Chloroaniline	6.701	65	61	N.D.	
34) Hexachloro-1,3-butadiene	0.000		0	N.D.	
35) Caprolactam	0.000		0	N.D.	
36) 4-Chloro-3-methylphenol	0.000		0	N.D. d	
37) 2-Methylnaphthalene	0.000		0	N.D.	

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\112514A\
Data File : 1125A 19.D
Acq On : 26 Nov 2014 1:13 pm
Operator : 377
Sample : L735181-02 1x WG756405 100-0.5
Misc : water 14K08418/14K19022
ALS Vial : 7 Sample Multiplier: 0.005

Quant Time: Nov 26 14:17:46 2014
Quant Method : C:\msdchem\1\methods\S819K21N.M
Quant Title : 8270 BNA
QLast Update : Fri Nov 21 15:09:20 2014
Response via : Initial Calibration

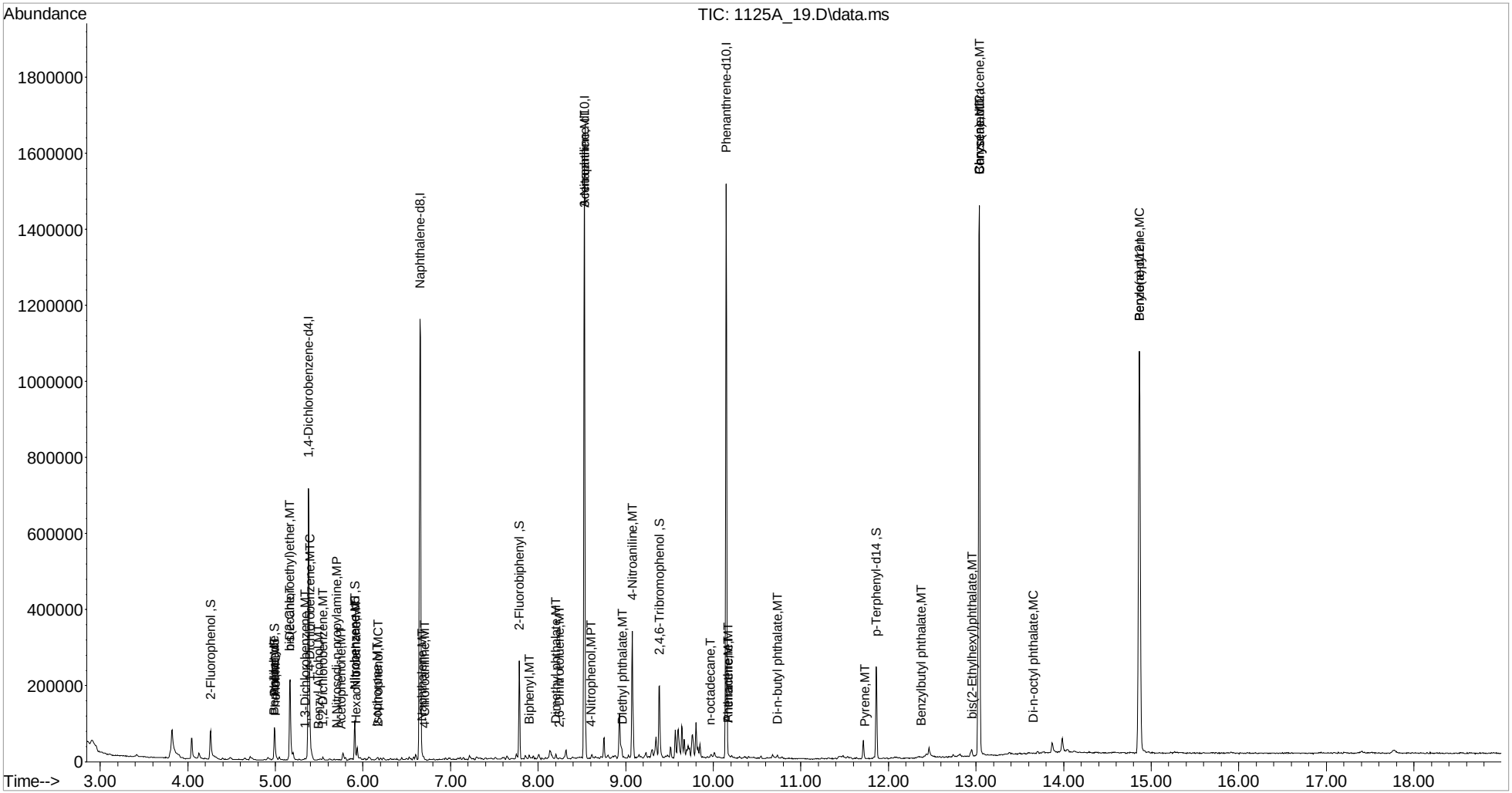
	Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
38)	1-Methylnaphthalene	0.000		0	N.D.	
39)	1,2,4,5-Tetrachloroben...	0.000		0	N.D.	
41)	Hexachlorocyclopentadiene	0.000		0	N.D.	
42)	2,4,6-Trichlorophenol	0.000		0	N.D.	
43)	2,4,5-Trichlorophenol	0.000		0	N.D.	
45)	Biphenyl	7.895	154	1100	N.D.	
46)	2-Chloronaphthalene	0.000		0	N.D.	
47)	2-Nitroaniline	0.000		0	N.D.	
48)	Acenaphthylene	0.000		0	N.D.	
49)	Dimethyl phthalate	8.201	163	2444	0.2652752 ppb	94
50)	2,6-Dinitrotoluene	8.242	165	152	N.D.	
51)	3-Nitroaniline	8.531	138	57	N.D.	
52)	Acenaphthene	0.000		0	N.D.	
53)	2,4-Dinitrophenol	0.000		0	N.D.	
54)	Dibenzofuran	0.000		0	N.D.	
55)	2,4-Dinitrotoluene	0.000		0	N.D.	
56)	2,3,4,6-Tetrachlorophenol	0.000		0	N.D.	
57)	4-Nitrophenol	8.601	139	53	N.D.	
58)	Fluorene	0.000		0	N.D.	
59)	4-Chlorophenyl-phenyle...	0.000		0	N.D.	
60)	Diethyl phthalate	8.960	149	546	N.D.	
61)	4-Nitroaniline	9.078	138	62	N.D.	
62)	Azobenzene	0.000		0	N.D. d	
63)	Atrazine	0.000		0	N.D.	
65)	4,6-Dinitro-2-methylph...	0.000		0	N.D.	
66)	N-Nitrosodiphenylamine	0.000		0	N.D.	
68)	4-Bromophenyl-phenylether	0.000		0	N.D.	
69)	Hexachlorobenzene	0.000		0	N.D.	
70)	n-octadecane	9.966	55	3165	1.8088616 ppb #	61
71)	Pentachlorophenol	0.000		0	N.D.	
72)	Phenanthrene	10.172	178	68	N.D.	
73)	Anthracene	10.172	178	68	N.D.	
74)	Carbazole	0.000		0	N.D.	
75)	Di-n-butyl phthalate	10.730	149	3688	0.2224956 ppb	98
76)	2-nitrodiphenylamine	0.000		0	N.D.	
77)	Fluoranthene	0.000		0	N.D.	
79)	Benzidine	0.000		0	N.D.	
80)	Pyrene	11.730	202	53	N.D.	
82)	Benzylbutyl phthalate	12.371	149	472	N.D.	
83)	3,3-Dichlorobenzidine	0.000		0	N.D.	
84)	Benzo(a)anthracene	13.036	228	1324	N.D.	
85)	Chrysene	13.036	228	1324	N.D.	
86)	bis(2-Ethylhexyl)phtha...	12.954	149	5514	0.4751225 ppb	96
87)	Di-n-octyl phthalate	13.654	149	1745	N.D.	
89)	Benzo(b)fluoranthene	0.000		0	N.D.	
90)	Benzo(k)fluoranthene	0.000		0	N.D.	
91)	Benzo(a)pyrene	14.865	252	1751	N.D.	
92)	Indeno(1,2,3-cd)pyrene	0.000		0	N.D.	
93)	Dibenz(a,h)anthracene	0.000		0	N.D.	
94)	Benzo(g,h,i)perylene	0.000		0	N.D.	

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\112514A\
Data File : 1125A 19.D
Acq On : 26 Nov 2014 1:13 pm
Operator : 377
Sample : L735181-02 1x WG756405 100-0.5
Misc : water 14K08418/14K19022
ALS Vial : 7 Sample Multiplier: 0.005

Quant Time: Nov 26 14:17:46 2014
Quant Method : C:\msdchem\1\methods\S819K21N.M
Quant Title : 8270 BNA
QLast Update : Fri Nov 21 15:09:20 2014
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\112514A\
Data File : 1125A 20.D
Acq On : 26 Nov 2014 1:37 pm
Operator : 377
Sample : L735181-05 1x WG756405 100-0.5
Misc : water 14K08418/14K19022
ALS Vial : 8 Sample Multiplier: 0.005

Quant Time: Nov 26 14:20:29 2014
Quant Method : C:\msdchem\1\methods\S819K21N.M
Quant Title : 8270 BNA
QLast Update : Fri Nov 21 15:09:20 2014
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 1,4-Dichlorobenzene-d4	5.378	152	130467	8000.0000000 ppb	0.00
22) Naphthalene-d8	6.648	136	565541	8000.0000000 ppb	0.00
40) Acenaphthene-d10	8.531	164	352863	8000.0000000 ppb	0.00
64) Phenanthrene-d10	10.148	188	591440	8000.0000000 ppb	0.00
78) Chrysene-d12	13.036	240	568924	8000.0000000 ppb	0.00
88) Perylene-d12	14.865	264	612218	8000.0000000 ppb	-0.02
System Monitoring Compounds					
4) 2-Fluorophenol	4.260	112	35923	9.3364640 ppb	0.00
Spiked Amount 20.000	Range 10 - 78		Recovery = 46.68%		
7) Phenol-d5	4.990	99	36021	7.1775460 ppb	0.00
Spiked Amount 20.000	Range 5 - 70		Recovery = 35.89%		
23) Nitrobenzene-d5	5.907	82	32665	7.2022890 ppb	0.00
Spiked Amount 10.000	Range 22 - 123		Recovery = 72.02%		
44) 2-Fluorobiphenyl	7.784	172	77035	7.6884411 ppb	-0.01
Spiked Amount 10.000	Range 30 - 131		Recovery = 76.88%		
67) 2,4,6-Tribromophenol	9.383	330	18439	13.9213424 ppb	0.00
Spiked Amount 20.000	Range 11 - 130		Recovery = 69.61%		
81) p-Terphenyl-d14	11.860	244	78137	6.7596919 ppb	-0.02
Spiked Amount 10.000	Range 29 - 137		Recovery = 67.60%		
Target Compounds					Qvalue
2) Pyridine	0.000		0	N.D.	
3) N-Nitrosodimethylamine	0.000		0	N.D.	
5) Aniline	4.990	66	1951	0.8071209 ppb #	1
6) bis(2-Chloroethyl)ether	0.000		0	N.D. d	
8) Phenol	5.007	94	704	0.1365073 ppb #	62
9) Benzaldehyde	4.984	105	352	0.1489971 ppb #	89
10) 2-Chlorophenol	0.000		0	N.D. d	
11) n-Decane	5.166	55	12563	12.6727211 ppb #	1
12) 1,3-Dichlorobenzene	5.395	146	101	N.D.	
13) 1,4-Dichlorobenzene	5.395	146	101	N.D.	
14) Benzyl Alcohol	5.490	79	220	N.D.	
15) 1,2-Dichlorobenzene	0.000		0	N.D.	
16) bis(2-Chloroisopropyl)...	0.000		0	N.D.	
17) 2-Methylphenol	0.000		0	N.D.	
18) Hexachloroethane	0.000		0	N.D. d	
19) N-Nitrosodi-n-propylamine	5.772	70	317	N.D.	
20) 3&4-Methyl phenol	5.690	107	152	N.D.	
21) Acetophenone	5.748	105	993	0.1530667 ppb	92
24) Nitrobenzene	0.000		0	N.D. d	
25) Isophorone	6.160	82	117	N.D.	
26) 2-Nitrophenol	6.242	139	59	N.D.	
27) 2,4-Dimethylphenol	6.278	107	146	N.D.	
28) bis(2-Chlorethoxy)methane	6.384	93	69	N.D.	
29) 2,4-Dichlorophenol	0.000		0	N.D.	
30) Benzoic Acid	6.278	105	973	1.4509682 ppb	99
31) 1,2,4-Trichlorobenzene	0.000		0	N.D.	
32) Naphthalene	6.672	128	8512	0.5845769 ppb #	53
33) 4-Chloroaniline	0.000		0	N.D. d	
34) Hexachloro-1,3-butadiene	0.000		0	N.D.	
35) Caprolactam	7.054	113	115	N.D.	
36) 4-Chloro-3-methylphenol	7.195	107	140	N.D.	
37) 2-Methylnaphthalene	7.407	142	66	N.D.	

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\112514A\
Data File : 1125A 20.D
Acq On : 26 Nov 2014 1:37 pm
Operator : 377
Sample : L735181-05 1x WG756405 100-0.5
Misc : water 14K08418/14K19022
ALS Vial : 8 Sample Multiplier: 0.005

Quant Time: Nov 26 14:20:29 2014
Quant Method : C:\msdchem\1\methods\S819K21N.M
Quant Title : 8270 BNA
QLast Update : Fri Nov 21 15:09:20 2014
Response via : Initial Calibration

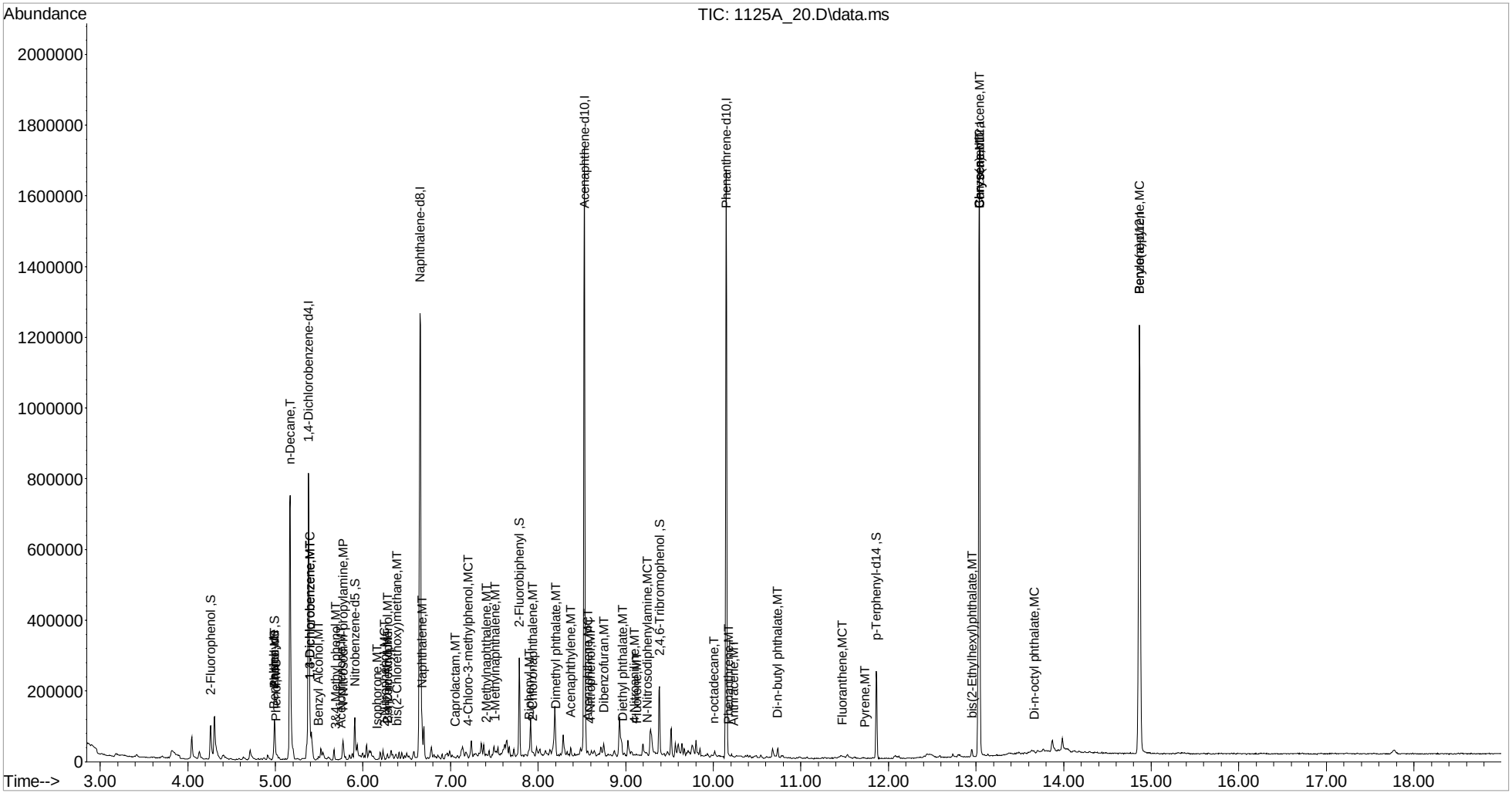
	Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
38)	1-Methylnaphthalene	7.507	142	973	N.D.	
39)	1,2,4,5-Tetrachloroben...	0.000		0	N.D.	
41)	Hexachlorocyclopentadiene	0.000		0	N.D.	
42)	2,4,6-Trichlorophenol	0.000		0	N.D.	
43)	2,4,5-Trichlorophenol	0.000		0	N.D.	
45)	Biphenyl	7.895	154	1199	N.D.	
46)	2-Chloronaphthalene	7.936	162	109	N.D.	
47)	2-Nitroaniline	0.000		0	N.D.	
48)	Acenaphthylene	8.372	152	860	N.D.	
49)	Dimethyl phthalate	8.201	163	2764	0.2739061 ppb	75
50)	2,6-Dinitrotoluene	0.000		0	N.D.	
51)	3-Nitroaniline	0.000		0	N.D.	
52)	Acenaphthene	8.566	153	2494	0.2576246 ppb	95
53)	2,4-Dinitrophenol	0.000		0	N.D.	
54)	Dibenzofuran	8.748	168	8187	0.6424306 ppb	96
55)	2,4-Dinitrotoluene	0.000		0	N.D. d	
56)	2,3,4,6-Tetrachlorophenol	0.000		0	N.D.	
57)	4-Nitrophenol	8.595	139	85	N.D.	
58)	Fluorene	9.125	166	1059	N.D.	
59)	4-Chlorophenyl-phenyle...	0.000		0	N.D.	
60)	Diethyl phthalate	8.960	149	906	N.D.	
61)	4-Nitroaniline	9.095	138	53	N.D.	
62)	Azobenzene	0.000		0	N.D. d	
63)	Atrazine	0.000		0	N.D.	
65)	4,6-Dinitro-2-methylph...	0.000		0	N.D. d	
66)	N-Nitrosodiphenylamine	9.242	169	191	N.D.	
68)	4-Bromophenyl-phenylether	0.000		0	N.D.	
69)	Hexachlorobenzene	0.000		0	N.D.	
70)	n-octadecane	10.007	55	1228	0.6348149 ppb	78
71)	Pentachlorophenol	0.000		0	N.D.	
72)	Phenanthrene	10.178	178	198	N.D.	
73)	Anthracene	10.230	178	60	N.D.	
74)	Carbazole	0.000		0	N.D.	
75)	Di-n-butyl phthalate	10.730	149	4360	0.2379217 ppb	97
76)	2-nitrodiphenylamine	0.000		0	N.D.	
77)	Fluoranthene	11.472	202	133	N.D.	
79)	Benzidine	0.000		0	N.D.	
80)	Pyrene	11.730	202	70	N.D.	
82)	Benzylbutyl phthalate	0.000		0	N.D. d	
83)	3,3-Dichlorobenzidine	0.000		0	N.D.	
84)	Benzo(a)anthracene	13.036	228	1438	N.D.	
85)	Chrysene	13.036	228	1438	N.D.	
86)	bis(2-Ethylhexyl)phtha...	12.954	149	7656	0.6022267 ppb	97
87)	Di-n-octyl phthalate	13.666	149	1523	N.D.	
89)	Benzo(b)fluoranthene	0.000		0	N.D.	
90)	Benzo(k)fluoranthene	0.000		0	N.D.	
91)	Benzo(a)pyrene	14.865	252	2133	0.1427724 ppb #	1
92)	Indeno(1,2,3-cd)pyrene	0.000		0	N.D.	
93)	Dibenz(a,h)anthracene	0.000		0	N.D.	
94)	Benzo(g,h,i)perylene	0.000		0	N.D.	

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\112514A\
Data File : 1125A 20.D
Acq On : 26 Nov 2014 1:37 pm
Operator : 377
Sample : L735181-05 1x WG756405 100-0.5
Misc : water 14K08418/14K19022
ALS Vial : 8 Sample Multiplier: 0.005

Quant Time: Nov 26 14:20:29 2014
Quant Method : C:\msdchem\1\methods\S819K21N.M
Quant Title : 8270 BNA
QLast Update : Fri Nov 21 15:09:20 2014
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\112514A\
Data File : 1125A 21.D
Acq On : 26 Nov 2014 2:01 pm
Operator : 377
Sample : L735181-07 1x WG756405 100-0.5
Misc : water 14K08418/14K19022
ALS Vial : 9 Sample Multiplier: 0.005

Quant Time: Nov 26 14:22:09 2014
Quant Method : C:\msdchem\1\methods\S819K21N.M
Quant Title : 8270 BNA
QLast Update : Fri Nov 21 15:09:20 2014
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 1,4-Dichlorobenzene-d4	5.378	152	133620	8000.0000000 ppb	0.00
22) Naphthalene-d8	6.654	136	578948	8000.0000000 ppb	0.00
40) Acenaphthene-d10	8.531	164	354414	8000.0000000 ppb	0.00
64) Phenanthrene-d10	10.148	188	597149	8000.0000000 ppb	0.00
78) Chrysene-d12	13.036	240	575004	8000.0000000 ppb	0.00
88) Perylene-d12	14.866	264	615453	8000.0000000 ppb	-0.02
System Monitoring Compounds					
4) 2-Fluorophenol	4.260	112	39135	9.9312605 ppb	0.00
Spiked Amount 20.000	Range 10 - 78		Recovery = 49.66%		
7) Phenol-d5	4.990	99	40684	7.9154038 ppb	0.00
Spiked Amount 20.000	Range 5 - 70		Recovery = 39.58%		
23) Nitrobenzene-d5	5.907	82	30864	6.6475961 ppb	0.00
Spiked Amount 10.000	Range 22 - 123		Recovery = 66.48%		
44) 2-Fluorobiphenyl	7.784	172	73338	7.2874321 ppb	-0.01
Spiked Amount 10.000	Range 30 - 131		Recovery = 72.87%		
67) 2,4,6-Tribromophenol	9.383	330	16433	12.2882090 ppb	0.00
Spiked Amount 20.000	Range 11 - 130		Recovery = 61.44%		
81) p-Terphenyl-d14	11.860	244	79437	6.7994908 ppb	-0.02
Spiked Amount 10.000	Range 29 - 137		Recovery = 67.99%		
Target Compounds					Qvalue
2) Pyridine	0.000		0	N.D.	
3) N-Nitrosodimethylamine	0.000		0	N.D.	
5) Aniline	4.990	66	2227	0.8995612 ppb #	1
6) bis(2-Chloroethyl)ether	0.000		0	N.D. d	
8) Phenol	5.013	94	223	N.D.	
9) Benzaldehyde	4.990	105	231	N.D.	
10) 2-Chlorophenol	0.000		0	N.D. d	
11) n-Decane	5.166	55	18818	18.5344281 ppb #	1
12) 1,3-Dichlorobenzene	0.000		0	N.D.	
13) 1,4-Dichlorobenzene	0.000		0	N.D.	
14) Benzyl Alcohol	5.484	79	88	N.D.	
15) 1,2-Dichlorobenzene	5.543	146	53	N.D.	
16) bis(2-Chloroisopropyl)...	0.000		0	N.D.	
17) 2-Methylphenol	0.000		0	N.D.	
18) Hexachloroethane	0.000		0	N.D.	
19) N-Nitrosodi-n-propylamine	0.000		0	N.D.	
20) 3&4-Methyl phenol	0.000		0	N.D.	
21) Acetophenone	5.754	105	172	N.D.	
24) Nitrobenzene	5.907	77	141	N.D.	
25) Isophorone	6.231	82	55	N.D.	
26) 2-Nitrophenol	0.000		0	N.D.	
27) 2,4-Dimethylphenol	0.000		0	N.D.	
28) bis(2-Chlorethoxy)methane	0.000		0	N.D.	
29) 2,4-Dichlorophenol	0.000		0	N.D.	
30) Benzoic Acid	0.000		0	N.D.	
31) 1,2,4-Trichlorobenzene	0.000		0	N.D.	
32) Naphthalene	6.672	128	3283	0.2202447 ppb	97
33) 4-Chloroaniline	6.725	65	65	N.D.	
34) Hexachloro-1,3-butadiene	0.000		0	N.D.	
35) Caprolactam	7.054	113	55	N.D.	
36) 4-Chloro-3-methylphenol	0.000		0	N.D.	
37) 2-Methylnaphthalene	0.000		0	N.D.	

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\112514A\
Data File : 1125A 21.D
Acq On : 26 Nov 2014 2:01 pm
Operator : 377
Sample : L735181-07 1x WG756405 100-0.5
Misc : water 14K08418/14K19022
ALS Vial : 9 Sample Multiplier: 0.005

Quant Time: Nov 26 14:22:09 2014
Quant Method : C:\msdchem\1\methods\S819K21N.M
Quant Title : 8270 BNA
QLast Update : Fri Nov 21 15:09:20 2014
Response via : Initial Calibration

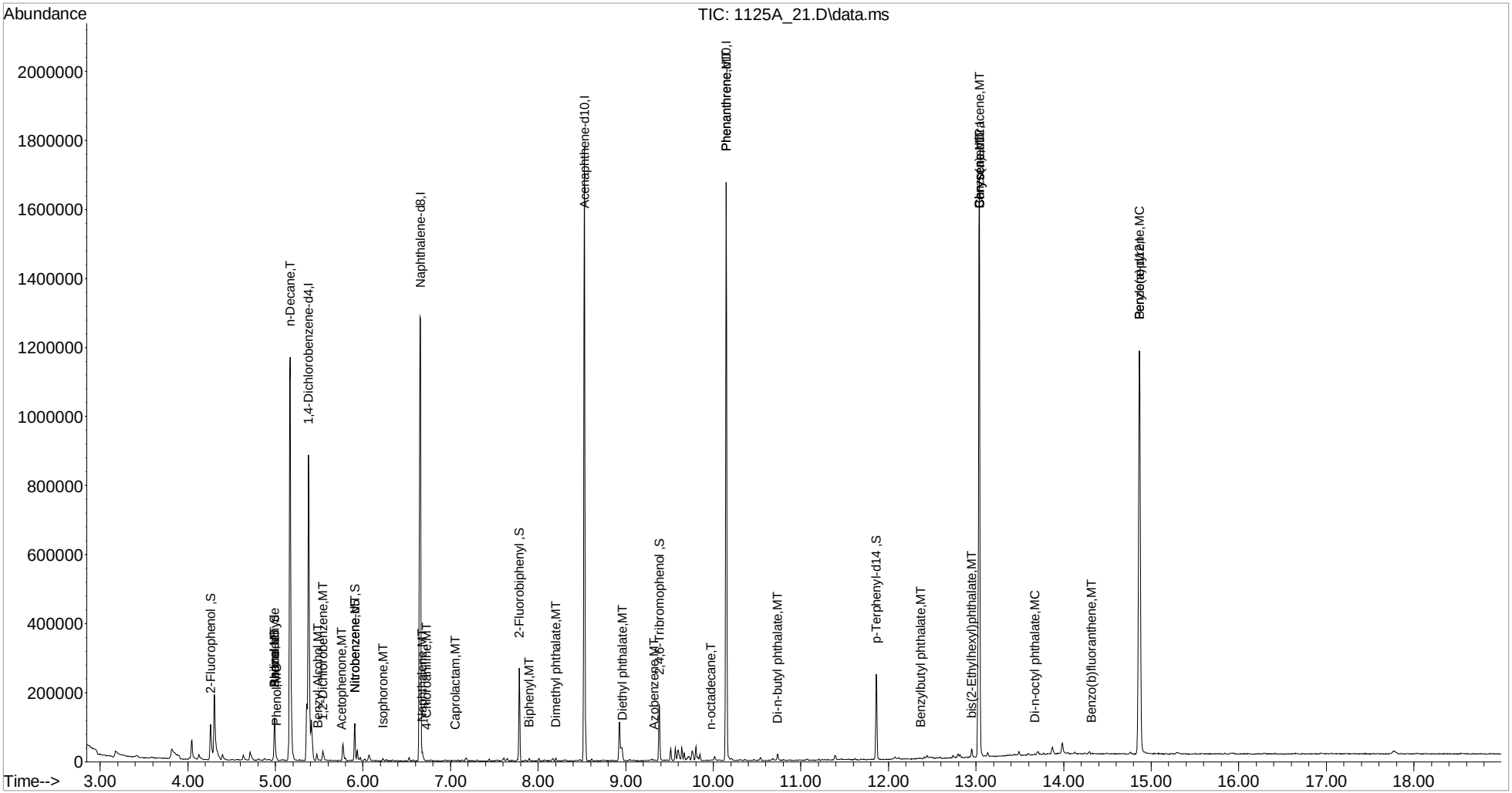
	Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
38)	1-Methylnaphthalene	0.000		0	N.D.	
39)	1,2,4,5-Tetrachloroben...	0.000		0	N.D.	
41)	Hexachlorocyclopentadiene	0.000		0	N.D.	
42)	2,4,6-Trichlorophenol	0.000		0	N.D.	
43)	2,4,5-Trichlorophenol	0.000		0	N.D.	
45)	Biphenyl	7.895	154	1228	N.D.	
46)	2-Chloronaphthalene	0.000		0	N.D.	
47)	2-Nitroaniline	0.000		0	N.D.	
48)	Acenaphthylene	0.000		0	N.D.	
49)	Dimethyl phthalate	8.201	163	2732	0.2695501 ppb	91
50)	2,6-Dinitrotoluene	0.000		0	N.D.	
51)	3-Nitroaniline	0.000		0	N.D.	
52)	Acenaphthene	0.000		0	N.D.	
53)	2,4-Dinitrophenol	0.000		0	N.D.	
54)	Dibenzofuran	0.000		0	N.D.	
55)	2,4-Dinitrotoluene	0.000		0	N.D.	
56)	2,3,4,6-Tetrachlorophenol	0.000		0	N.D.	
57)	4-Nitrophenol	0.000		0	N.D.	
58)	Fluorene	0.000		0	N.D.	
59)	4-Chlorophenyl-phenyle...	0.000		0	N.D.	
60)	Diethyl phthalate	8.960	149	6340	0.5875367 ppb	94
61)	4-Nitroaniline	0.000		0	N.D.	
62)	Azobenzene	9.325	77	110	N.D.	
63)	Atrazine	0.000		0	N.D.	
65)	4,6-Dinitro-2-methylph...	0.000		0	N.D.	
66)	N-Nitrosodiphenylamine	0.000		0	N.D.	
68)	4-Bromophenyl-phenylether	0.000		0	N.D.	
69)	Hexachlorobenzene	0.000		0	N.D.	
70)	n-octadecane	9.972	55	121	N.D.	
71)	Pentachlorophenol	0.000		0	N.D.	
72)	Phenanthrene	10.148	178	135	N.D.	
73)	Anthracene	0.000		0	N.D.	
74)	Carbazole	0.000		0	N.D.	
75)	Di-n-butyl phthalate	10.730	149	3152	0.1703577 ppb	98
76)	2-nitrodiphenylamine	0.000		0	N.D.	
77)	Fluoranthene	0.000		0	N.D.	
79)	Benzidine	0.000		0	N.D.	
80)	Pyrene	0.000		0	N.D.	
82)	Benzylbutyl phthalate	12.366	149	446	N.D.	
83)	3,3-Dichlorobenzidine	0.000		0	N.D.	
84)	Benzo(a)anthracene	13.036	228	1505	N.D.	
85)	Chrysene	13.036	228	1505	N.D.	
86)	bis(2-Ethylhexyl)phtha...	12.948	149	7239	0.5634041 ppb	96
87)	Di-n-octyl phthalate	13.671	149	1493	N.D.	
89)	Benzo(b)fluoranthene	14.318	252	67	N.D.	
90)	Benzo(k)fluoranthene	0.000		0	N.D.	
91)	Benzo(a)pyrene	14.866	252	2245	0.1494793 ppb #	1
92)	Indeno(1,2,3-cd)pyrene	0.000		0	N.D.	
93)	Dibenz(a,h)anthracene	0.000		0	N.D.	
94)	Benzo(g,h,i)perylene	0.000		0	N.D.	

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\112514A\
Data File : 1125A 21.D
Acq On : 26 Nov 2014 2:01 pm
Operator : 377
Sample : L735181-07 1x WG756405 100-0.5
Misc : water 14K08418/14K19022
ALS Vial : 9 Sample Multiplier: 0.005

Quant Time: Nov 26 14:22:09 2014
Quant Method : C:\msdchem\1\methods\S819K21N.M
Quant Title : 8270 BNA
QLast Update : Fri Nov 21 15:09:20 2014
Response via : Initial Calibration



Calibration

Instrument: BNAMS19
Method: S819K21N

Initial Calibration Run Log

File ID	Level ID	Date Analyzed
1120a_04.D	200	11/20/2014 7:39:00 PM
1120a_05.D	1000	11/20/2014 8:03:00 PM
1120a_06.D	2000	11/20/2014 8:27:00 PM
1120a_07.D	5000	11/20/2014 8:51:00 PM
1120a_03.D	10000	11/20/2014 7:15:00 PM
1120a_08.D	20000	11/20/2014 9:15:00 PM
1120a_09.D	30000	11/20/2014 9:39:00 PM
1120a_10.D	40000	11/20/2014 10:03:00 PM
1120a_11.D	50000	11/20/2014 10:27:00 PM
1120a_13.D	.2K1	11/20/2014 11:15:00 PM
1120a_14.D	1K1	11/20/2014 11:39:00 PM
1120a_15.D	2K1	11/21/2014 12:03:00 AM
1120a_16.D	5K1	11/21/2014 12:27:00 AM
1120a_12.D	10K1	11/20/2014 10:51:00 PM
1120a_17.D	20K1	11/21/2014 12:51:00 AM
1120a_18.D	30K1	11/21/2014 1:15:00 AM
1120a_19.D	40K1	11/21/2014 1:39:00 AM
1120a_20.D	50K1	11/21/2014 2:03:00 AM

Environmental Science Corporation
12065 Lebanon Rd., Mt. Juliet, TN 37122

Injection Log

Instrument ID : BNAMS19
Computer Name : SVCOMPAQ

Released By : Chris McCord
Date Released : 11/21/2014 4:43:35 PM

Run ID : 112014A
Signature : _____

#	File ID	Sample ID	Method	WG	Product	Matrix	Account #	State	Dil.	Mult.	Injected	Misc.
1	1120a_00	INSTBLK	S819K20N						1	1	11/20/14 1802	"INSTRUMENT BLANK"
2	1120a_01	TUNE SVMS 50 PPM 14K19964								1	11/20/14 1826	
3	1120a_02	TUNE SVMS 50 PPM 14K19964								1	11/20/14 1851	
4	1120a_03	MSTD SVMS 10K PPB 14K07412	S819K21N						1	1	11/20/14 1915	"8270 PRIMARY CALIBRATION"
5	1120a_04	STD SVMS 200 PPB 14K07412	S819K21N						1	1	11/20/14 1939	"8270 PRIMARY CALIBRATION"
6	1120a_04 MRL	MRL SVMS 200 PPB 14K07412	S819K21N						1	1	11/20/14 1939	"8270 PRIMARY CALIBRATION"
7	1120a_05	STD SVMS 1K PPB 14K07412	S819K21N						1	1	11/20/14 2003	"8270 PRIMARY CALIBRATION"
8	1120a_06	STD SVMS 2K PPB 14K07412	S819K21N						1	1	11/20/14 2027	"8270 PRIMARY CALIBRATION"
9	1120a_06 MRL	MRL SVMS 2K PPB 14K07412	S819K21N						1	1	11/20/14 2027	"8270 PRIMARY CALIBRATION"
10	1120a_07	STD SVMS 5K PPB 14K07412	S819K21N						1	1	11/20/14 2051	"8270 PRIMARY CALIBRATION"
11	1120a_08	STD SVMS 20K PPB 14K07412	S819K21N						1	1	11/20/14 2115	"8270 PRIMARY CALIBRATION"
12	1120a_09	STD SVMS 30K PPB 14K07412	S819K21N						1	1	11/20/14 2139	"8270 PRIMARY CALIBRATION"
13	1120a_10	STD SVMS 40K PPB 14K07412	S819K21N						1	1	11/20/14 2203	"8270 PRIMARY CALIBRATION"
14	1120a_11	STD SVMS 50K PPB 14K07412	S819K21N						1	1	11/20/14 2227	"8270 PRIMARY CALIBRATION"

Environmental Science Corporation
12065 Lebanon Rd., Mt. Juliet, TN 37122

Injection Log

Instrument ID : BNAMS19
Computer Name : SVCOMPAQ

Released By : Chris McCord
Date Released : 11/21/2014 4:43:35 PM

Run ID : 112014A
Signature : _____

#	File ID	Sample ID	Method	WG	Product	Matrix	Account #	State	Dil.	Mult.	Injected	Misc.
15	1120a_12	MSTD TCL 10K1 PPB 14G21532	S819K21N						1	1	11/20/14 2251	"8270 TCL CALIBRATION"
16	1120a_13	STD TCL .2K1 PPB 14G21532	S819K21N						1	1	11/20/14 2315	"8270 TCL CALIBRATION"
17	1120a_14	STD TCL 1K1 PPB 14G21532	S819K21N						1	1	11/20/14 2339	"8270 TCL CALIBRATION"
18	1120a_15	STD TCL 2K1 PPB 14G21532	S819K21N						1	1	11/21/14 0003	"8270 TCL CALIBRATION"
19	1120a_15 MRL	MRL TCL 2K1 PPB 14G21532	S819K21N						1	1	11/21/14 0003	"8270 TCL CALIBRATION"
20	1120a_16	STD TCL 5K1 PPB 14G21532	S819K21N						1	1	11/21/14 0027	"8270 TCL CALIBRATION"
21	1120a_17	STD TCL 20K1 PPB 14G21532	S819K21N						1	1	11/21/14 0051	"8270 TCL CALIBRATION"
22	1120a_18	STD TCL 30K1 PPB 14G21532	S819K21N						1	1	11/21/14 0115	"8270 TCL CALIBRATION"
23	1120a_19	STD TCL 40K1 PPB 14G21532	S819K21N						1	1	11/21/14 0139	"8270 TCL CALIBRATION"
24	1120a_20	STD TCL 50K1 PPB 14G21532	S819K21N						1	1	11/21/14 0203	"8270 TCL CALIBRATION"
25	1121_01	TUNE SVMS 50 PPM 14K19964	TUNEC						1	1	11/21/14 1545	"DFTPP TUNE"
26	1121_01	TUNE SVMS 50 PPM 14K19964								1	11/21/14 1545	
27	1121_02	SSCV SVMS 10K PPB 14I30242	S819K21N						1	1	11/21/14 1608	"8270 SSCV"

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\112014A\
Data File : 1120a 02.D
Acq On : 20 Nov 2014 6:51 pm
Operator : 377
Sample : TUNE SVMS 50 PPM 14K19964
Misc : DFTPP TUNE
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 21 14:17:55 2014
Quant Method : C:\msdchem\1\methods\TUNEC.M
Quant Title : 8270 BNA
QLast Update : Tue May 21 10:58:22 2013
Response via : Initial Calibration

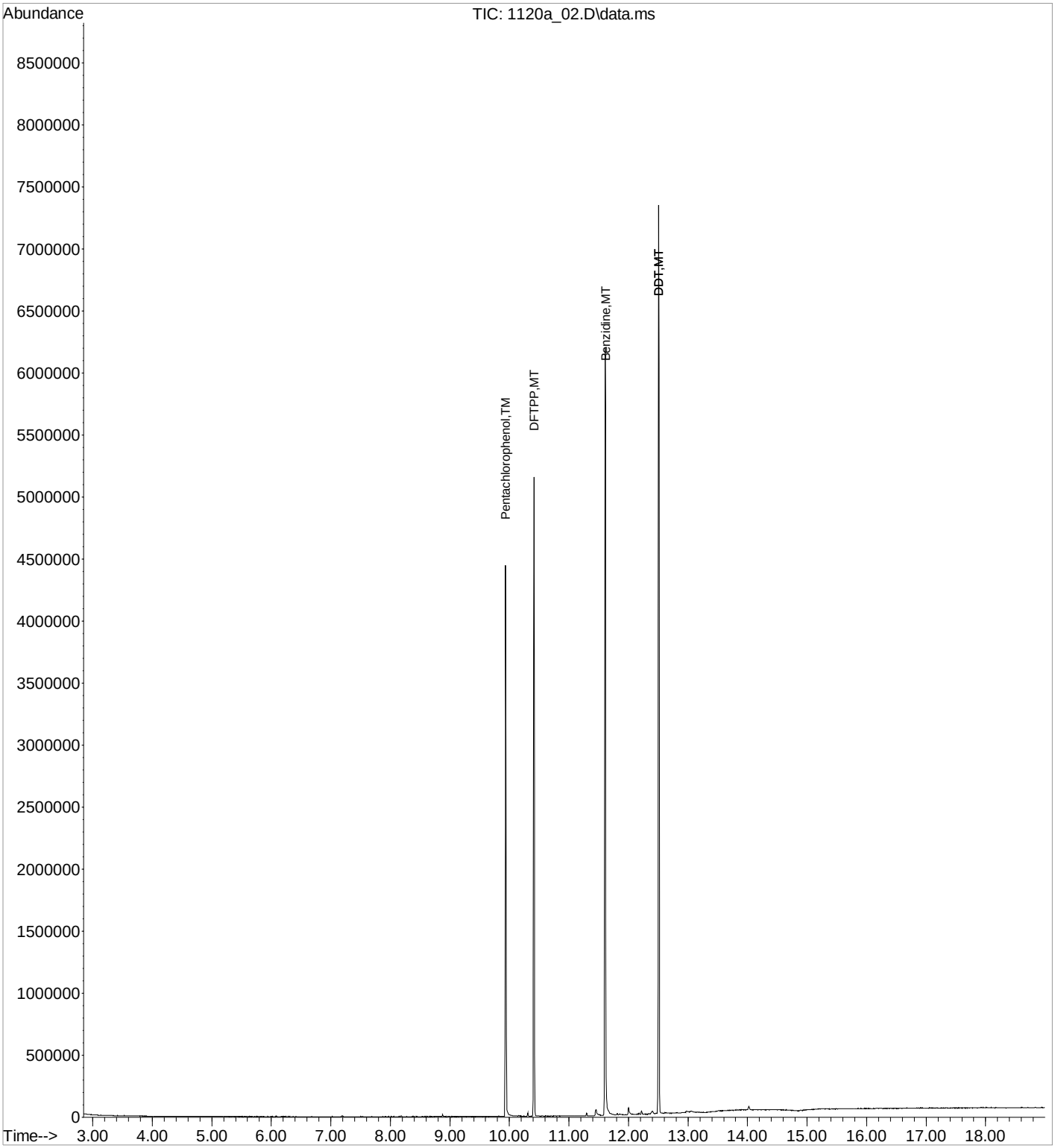
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Target Compounds						Qvalue
1) Pentachlorophenol	9.936	264	278663	47.7551909	ug/mL	100
2) DFTPP	10.413	198	536465	72.5064402	ug/mL	100
3) Benzidine	11.613	184	2600148	108.3320973	ug/mL	100
4) DDT	12.507	TIC	7217790	536.3906060	ug/ml	100
5) DDT	12.507	235	1349591	100.2949565	ug/mL	99

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\112014A\
Data File : 1120a 02.D
Acq On : 20 Nov 2014 6:51 pm
Operator : 377
Sample : TUNE SVMS 50 PPM 14K19964
Misc : DFTPP TUNE
ALS Vial : 2 Sample Multiplier: 1

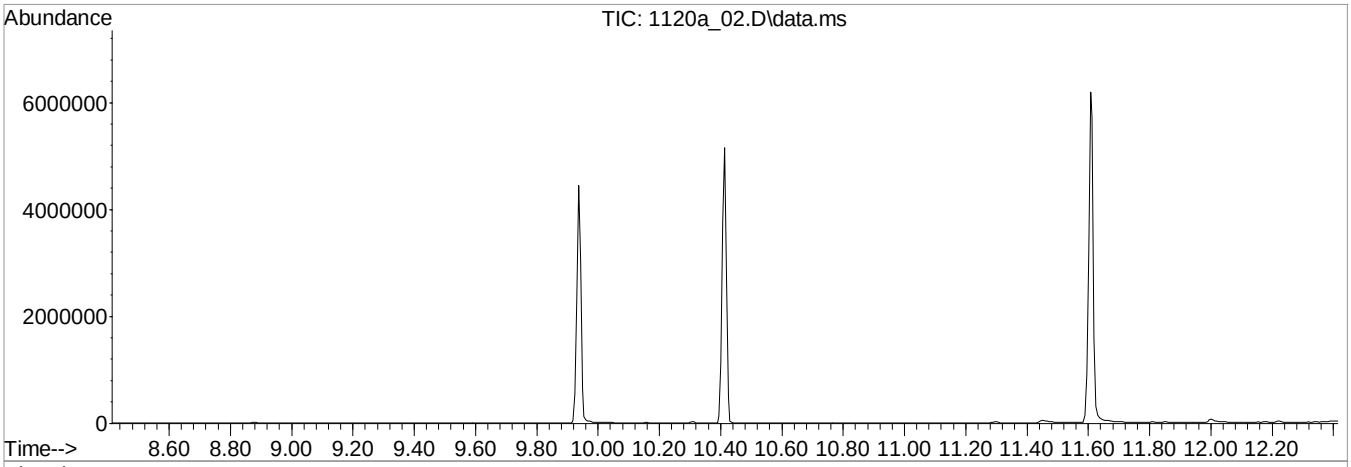
Quant Time: Nov 21 14:17:55 2014
Quant Method : C:\msdchem\1\methods\TUNEC.M
Quant Title : 8270 BNA
QLast Update : Tue May 21 10:58:22 2013
Response via : Initial Calibration

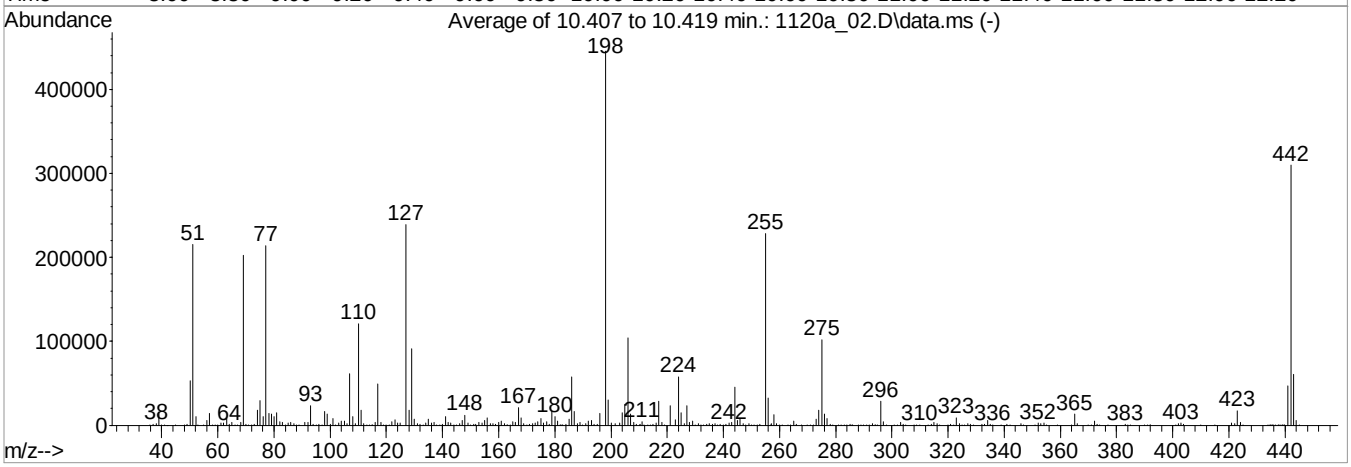


Data Path : C:\msdchem\1\data\112014A\
Data File : 1120a 02.D
Acq On : 20 Nov 2014 6:51 pm
Operator : 377
Sample : TUNE SVMS 50 PPM 14K19964
Misc : DFTPP TUNE
ALS Vial : 2 Sample Multiplier: 1

Integration File: RTEINT.P

Method : C:\msdchem\1\methods\TUNEC.M
Title : 8270 BNA
Last Update : Tue May 21 10:58:22 2013





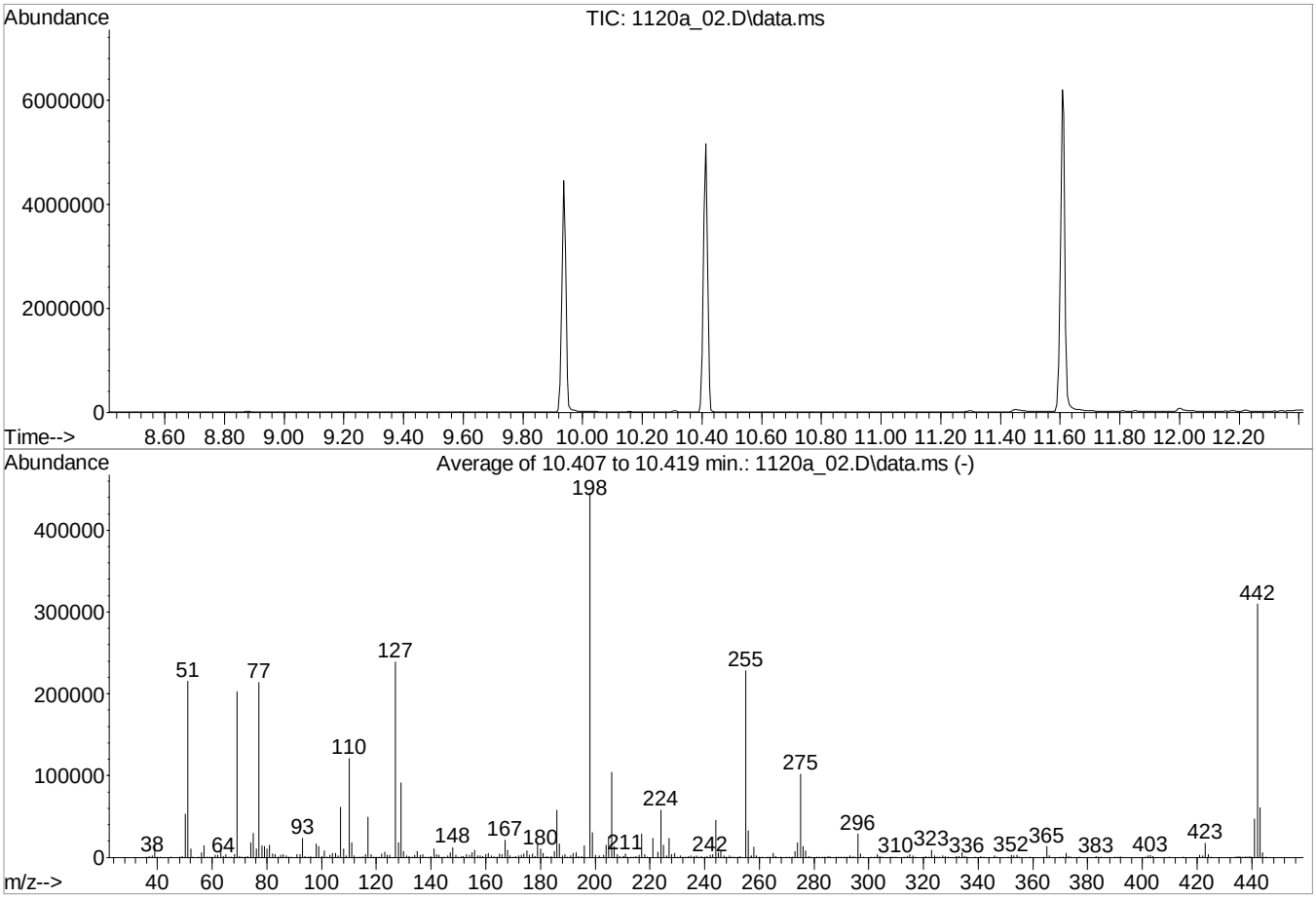
Spectrum Information: Average of 10.407 to 10.419 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	48.3	215435	PASS
68	69	0.00	2	1.5	3130	PASS
69	198	0.00	100	45.4	202417	PASS
70	69	0.00	2	0.5	975	PASS
127	198	40	60	53.6	238699	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	445717	PASS
199	198	5	9	6.7	29867	PASS
275	198	10	30	22.9	102117	PASS
365	198	1	100	3.0	13556	PASS
441	443	0.01	100	77.6	47251	PASS
442	198	40	100	69.5	309995	PASS
443	442	17	23	19.6	60896	PASS

Data Path : C:\msdchem\1\data\112014A\
Data File : 1120a 02.D
Acq On : 20 Nov 2014 6:51 pm
Operator : 377
Sample : TUNE SVMS 50 PPM 14K19964
Misc : DFTPP TUNE
ALS Vial : 2 Sample Multiplier: 1

Integration File: events.e

Method : C:\msdchem\1\methods\TUNED.M
Title :
Last Update : Tue May 21 11:00:42 2013



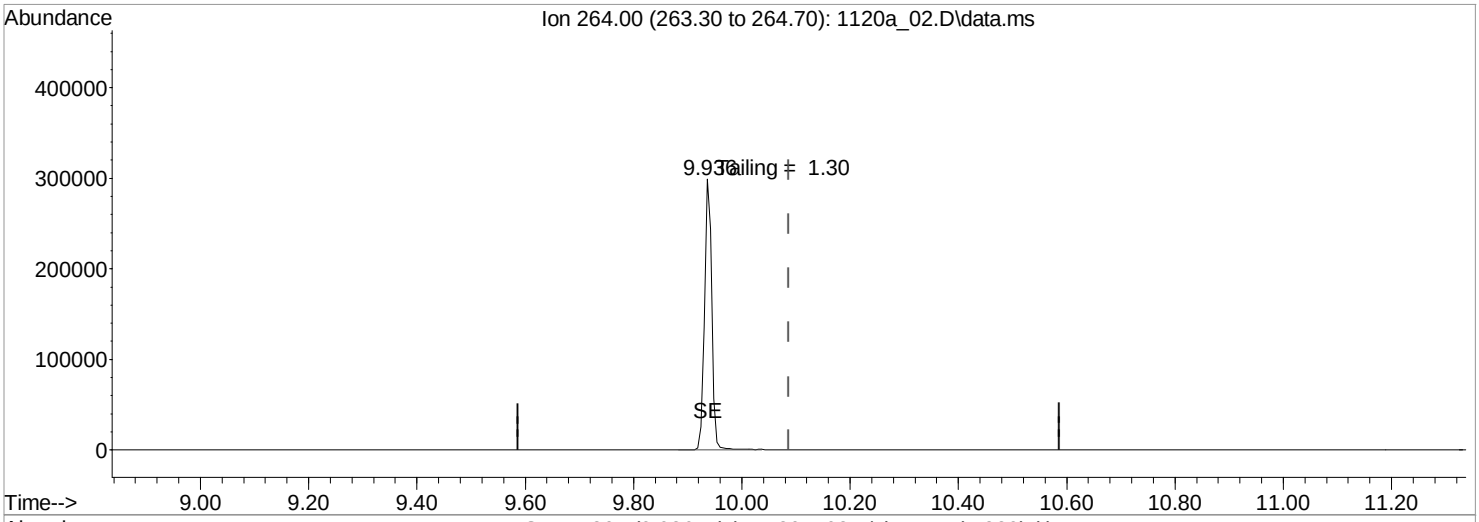
Spectrum Information: Average of 10.407 to 10.419 min.

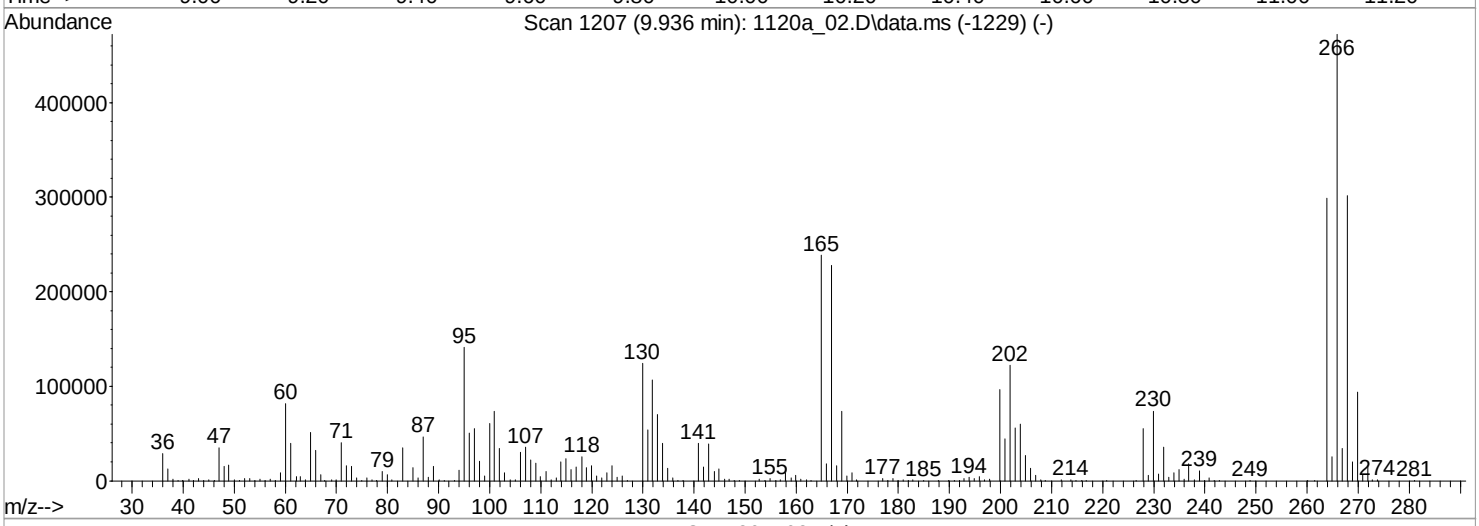
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	10	80	48.3	215435	PASS
68	69	0.00	2	1.5	3130	PASS
70	69	0.00	2	0.5	975	PASS
127	198	10	80	53.6	238699	PASS
197	198	0.00	2	0.0	0	PASS
198	198	50	100	100.0	445717	PASS
199	198	5	9	6.7	29867	PASS
275	198	10	60	22.9	102117	PASS
365	198	1	100	3.0	13556	PASS
441	442	0.01	24	15.2	47251	PASS
442	198	50	100	69.5	309995	PASS
443	442	15	24	19.6	60896	PASS

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\112014A\
Data File : 1120a 02.D
Acq On : 20 Nov 2014 6:51 pm
Operator : 377
Sample : TUNE SVMS 50 PPM 14K19964
Misc : DFTPP TUNE
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 21 14:17:55 2014
Quant Method : C:\msdchem\1\methods\TUNEC.M
Quant Title : 8270 BNA
QLast Update : Tue May 21 10:58:22 2013
Response via : Initial Calibration





(1) Pentachlorophenol (TM)

9.936min (-0.150) 47.7551909 ug/mL

Qvalue = 100

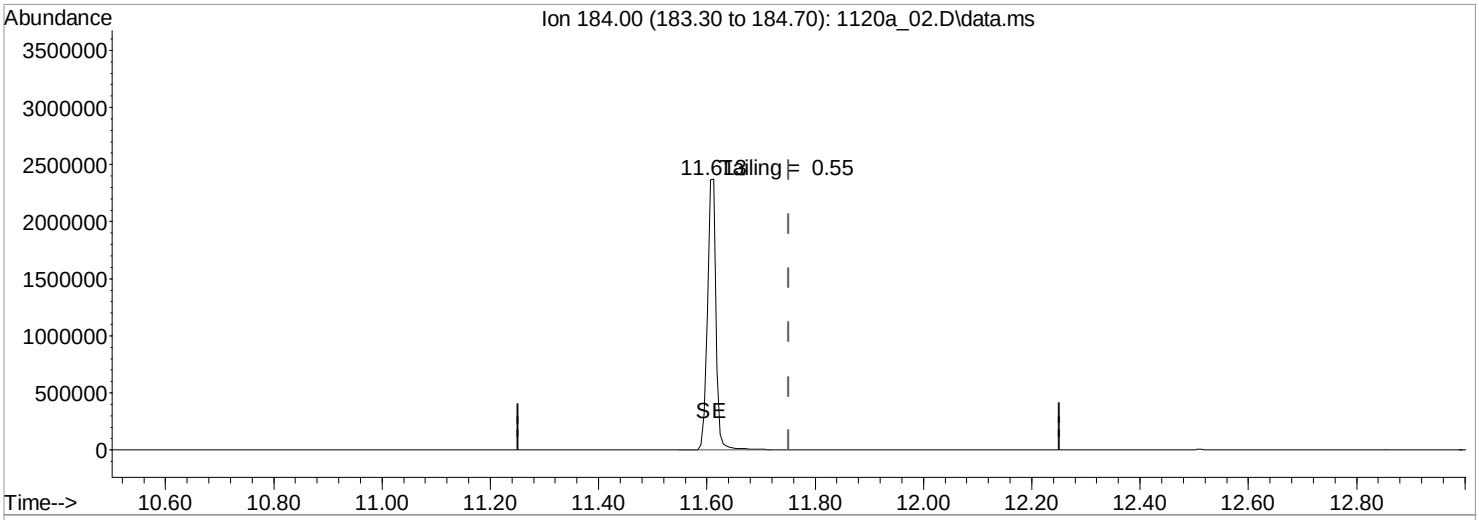
response 278663

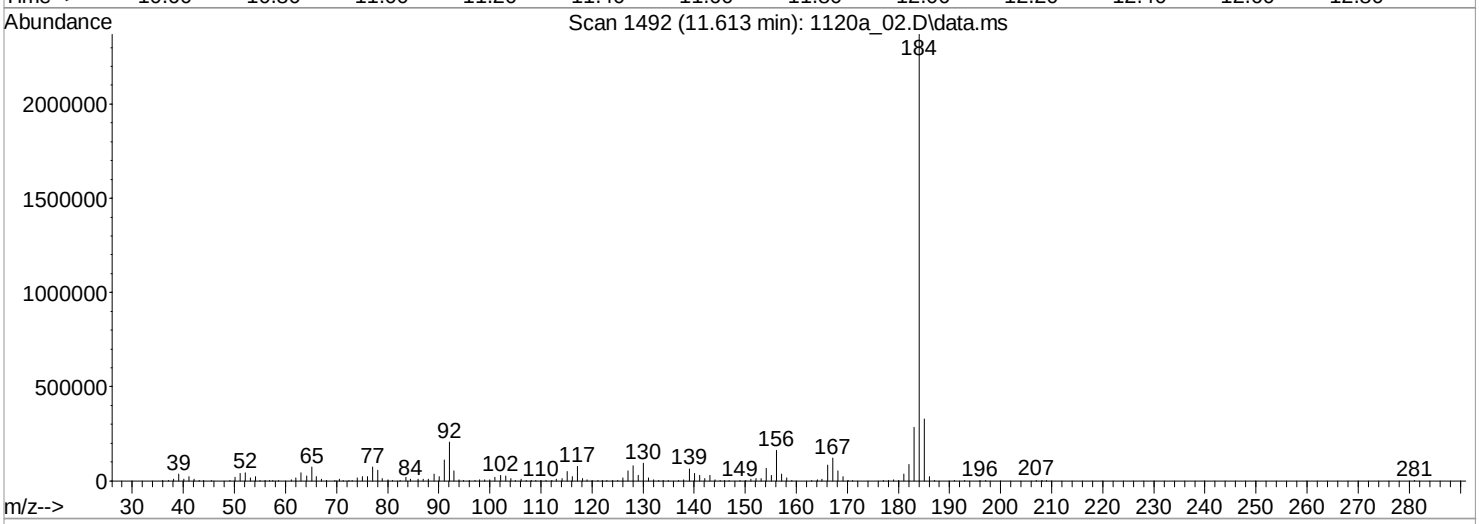
Ion	Exp%	Act%
264.00	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\112014A\
Data File : 1120a 02.D
Acq On : 20 Nov 2014 6:51 pm
Operator : 377
Sample : TUNE SVMS 50 PPM 14K19964
Misc : DFTPP TUNE
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 21 14:17:55 2014
Quant Method : C:\msdchem\1\methods\TUNEC.M
Quant Title : 8270 BNA
QLast Update : Tue May 21 10:58:22 2013
Response via : Initial Calibration





TIC: 1120a_02.D\data.ms

(3) Benzidine (MT)

11.613min (-0.138) 108.3320973 ug/mL

Qvalue = 100

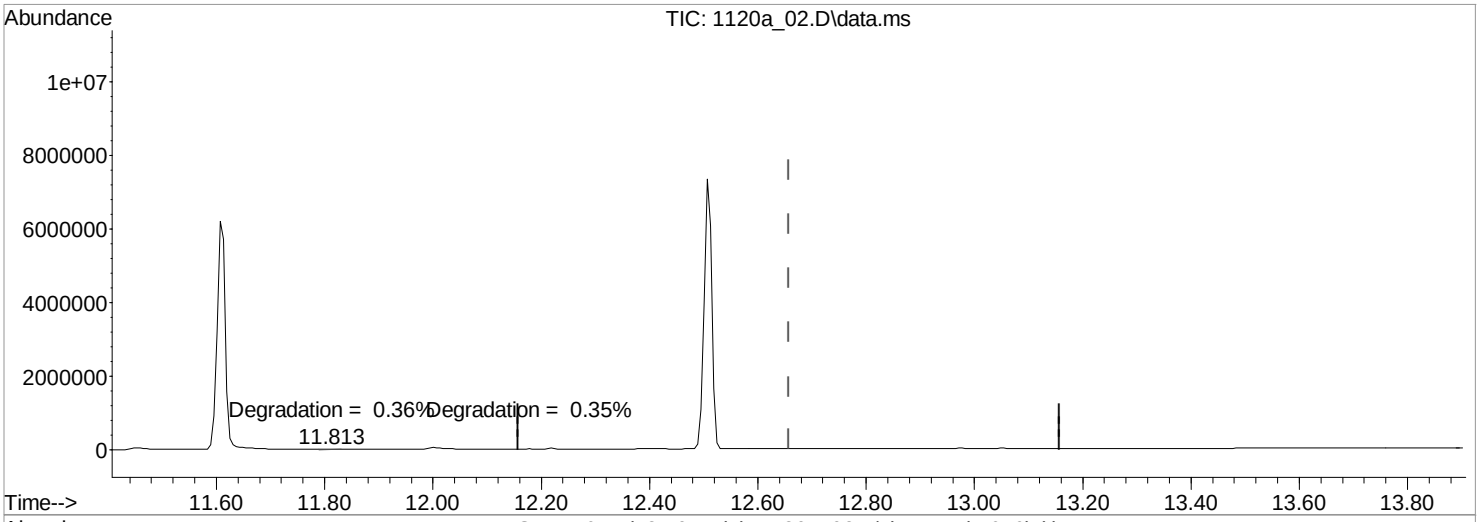
response 2600148

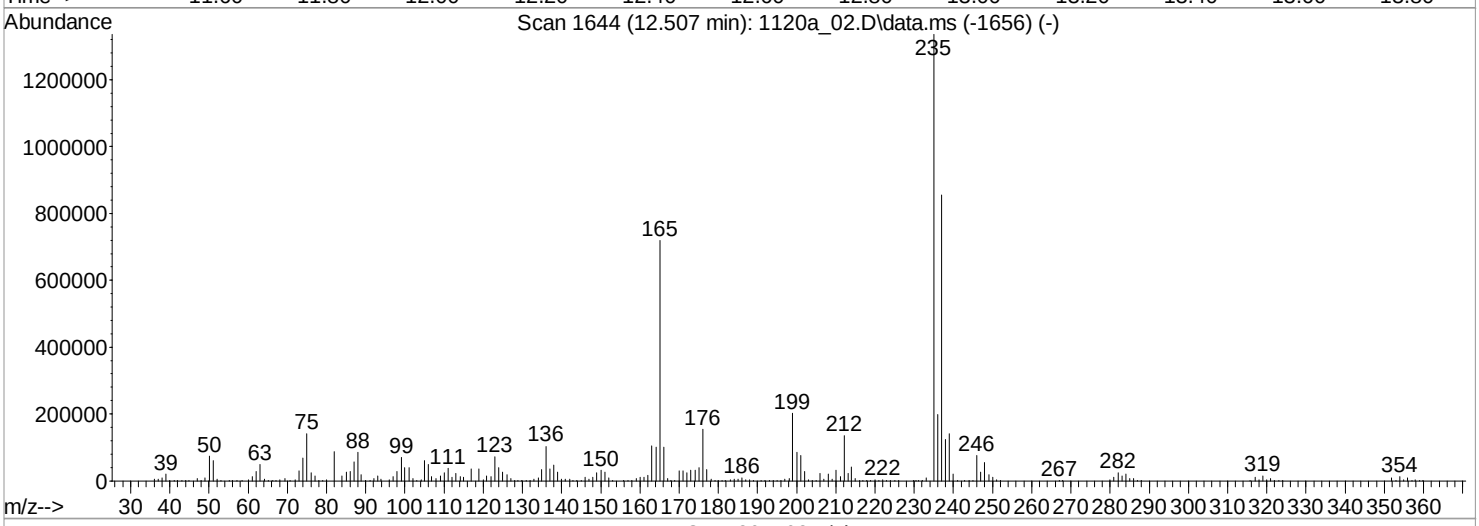
Ion	Exp%	Act%
184.00	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\112014A\
Data File : 1120a 02.D
Acq On : 20 Nov 2014 6:51 pm
Operator : 377
Sample : TUNE SVMS 50 PPM 14K19964
Misc : DFTPP TUNE
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 21 14:17:55 2014
Quant Method : C:\msdchem\1\methods\TUNEC.M
Quant Title : 8270 BNA
QLast Update : Tue May 21 10:58:22 2013
Response via : Initial Calibration





(4) DDT (MT)

12.507min (-0.150) 536.3906060 ug/ml

Qvalue = 100

response 7217790

Signal	Exp%	Act%
TIC	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\112114\
Data File : 1121 01.D
Acq On : 21 Nov 2014 3:45 pm
Operator : 377
Sample : TUNE SVMS 50 PPM 14K19964
Misc : DFTPP TUNE
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 21 16:07:11 2014
Quant Method : C:\msdchem\1\methods\TUNEC.M
Quant Title : 8270 BNA
QLast Update : Tue May 21 10:58:22 2013
Response via : Initial Calibration

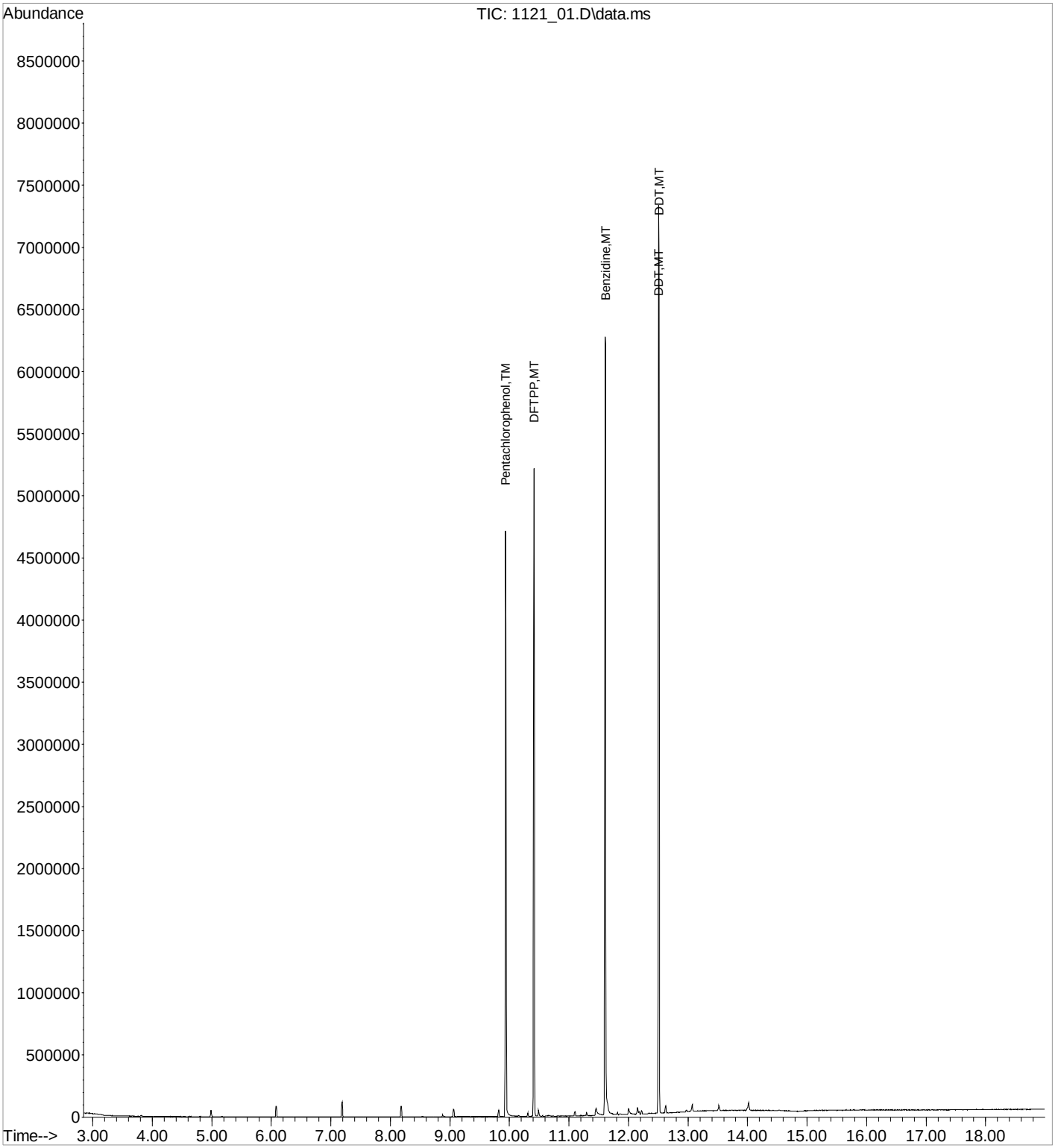
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Target Compounds						Qvalue
1) Pentachlorophenol	9.937	264	307855	52.7578986	ug/mL	100
2) DFTPP	10.413	198	564475	76.2921585	ug/mL	100
3) Benzidine	11.613	184	2694971	112.2827857	ug/mL	100
4) DDT	12.507	TIC	7514013	558.4044405	ug/ml	100
5) DDT	12.513	235	1411791	104.9173542	ug/mL	98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\112114\
Data File : 1121 01.D
Acq On : 21 Nov 2014 3:45 pm
Operator : 377
Sample : TUNE SVMS 50 PPM 14K19964
Misc : DFTPP TUNE
ALS Vial : 2 Sample Multiplier: 1

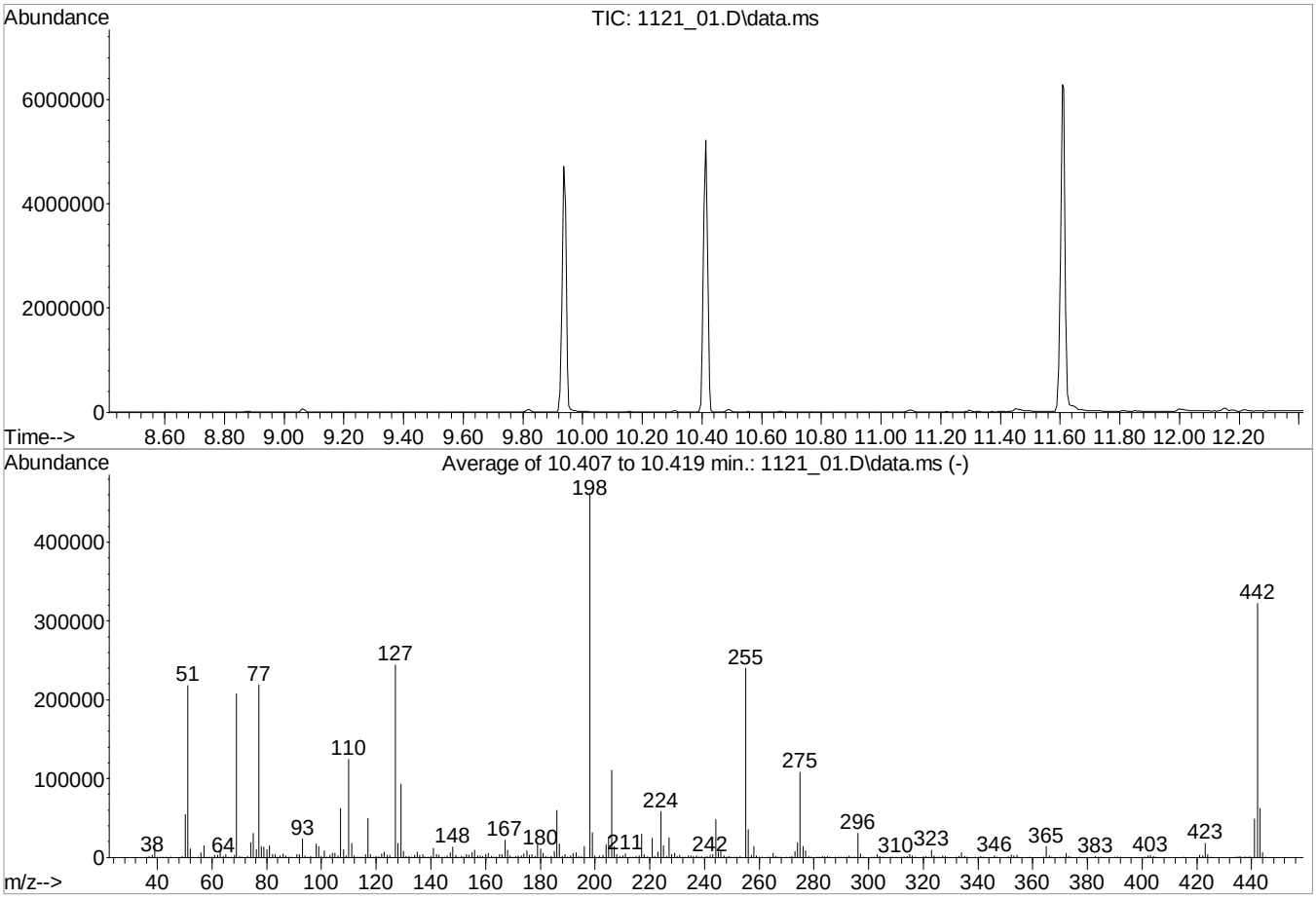
Quant Time: Nov 21 16:07:11 2014
Quant Method : C:\msdchem\1\methods\TUNEC.M
Quant Title : 8270 BNA
QLast Update : Tue May 21 10:58:22 2013
Response via : Initial Calibration



Data Path : C:\msdchem\1\data\112114\
Data File : 1121 01.D
Acq On : 21 Nov 2014 3:45 pm
Operator : 377
Sample : TUNE SVMS 50 PPM 14K19964
Misc : DFTPP TUNE
ALS Vial : 2 Sample Multiplier: 1

Integration File: RTEINT.P

Method : C:\msdchem\1\methods\TUNEC.M
Title : 8270 BNA
Last Update : Tue May 21 10:58:22 2013



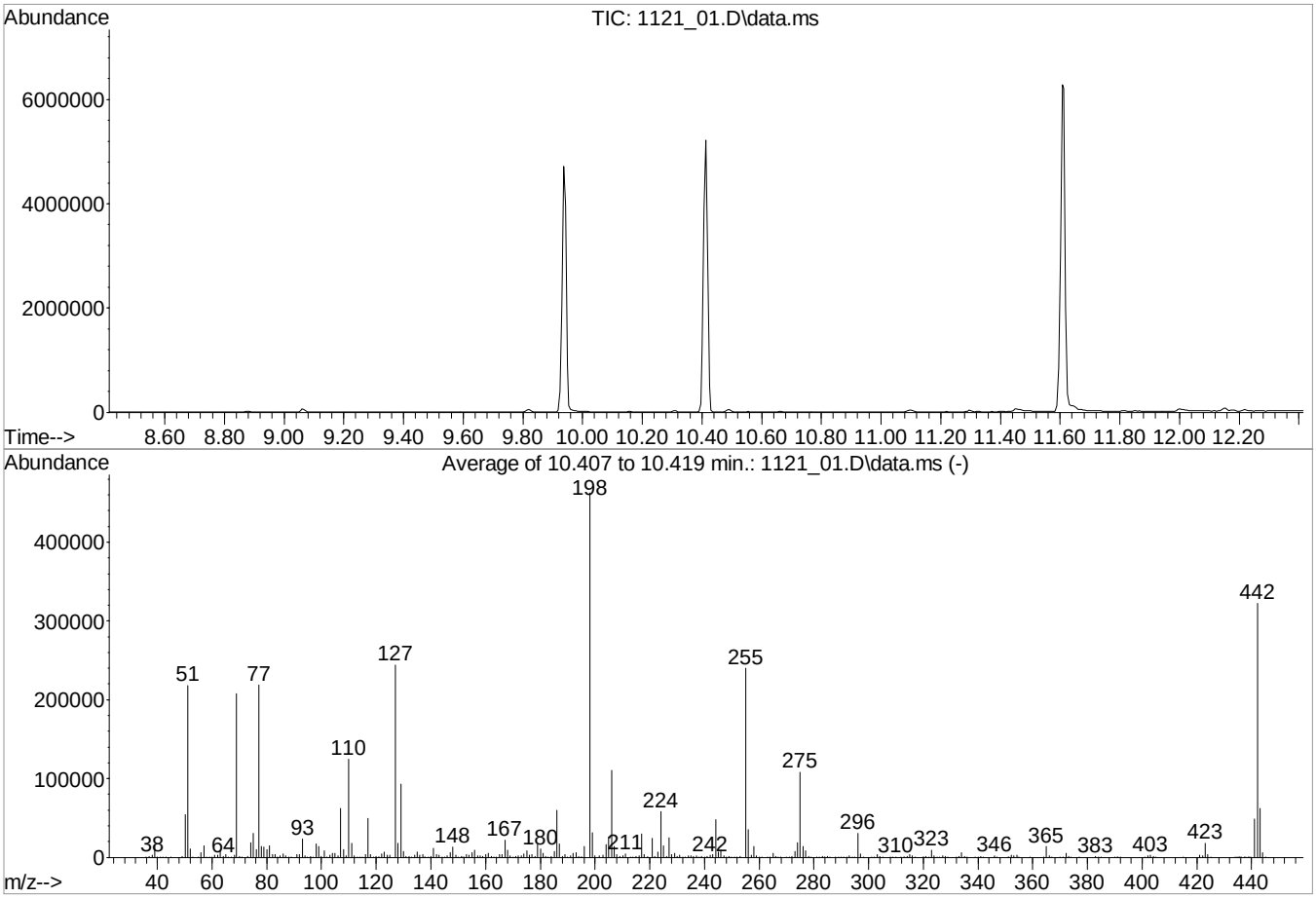
AutoFind: Scans 1287, 1288, 1289; Background Corrected with Scan 1281

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	47.1	218104	PASS
68	69	0.00	2	1.5	3186	PASS
69	198	0.00	100	44.9	207886	PASS
70	69	0.00	2	0.5	998	PASS
127	198	40	60	52.8	244096	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	462699	PASS
199	198	5	9	6.7	30936	PASS
275	198	10	30	23.3	107936	PASS
365	198	1	100	3.0	13886	PASS
441	443	0.01	100	78.2	48896	PASS
442	198	40	100	69.7	322347	PASS
443	442	17	23	19.4	62496	PASS

Data Path : C:\msdchem\1\data\112114\
Data File : 1121 01.D
Acq On : 21 Nov 2014 3:45 pm
Operator : 377
Sample : TUNE SVMS 50 PPM 14K19964
Misc : DFTPP TUNE
ALS Vial : 2 Sample Multiplier: 1

Integration File: events.e

Method : C:\msdchem\1\methods\TUNED.M
Title :
Last Update : Tue May 21 11:00:42 2013



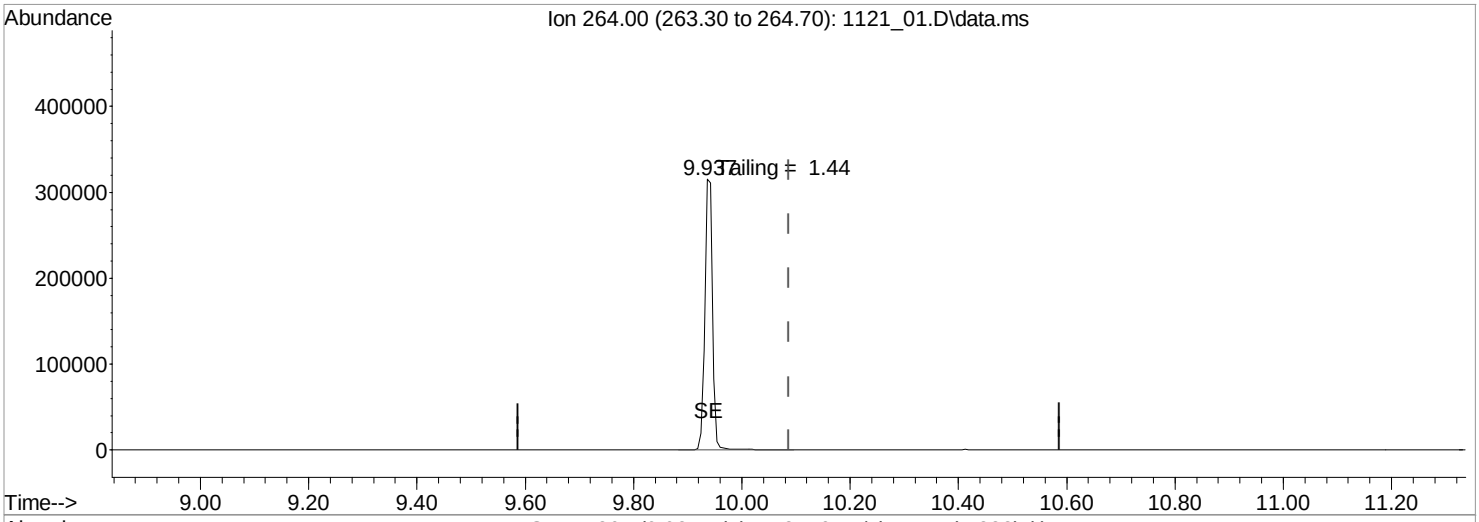
Spectrum Information: Average of 10.407 to 10.419 min.

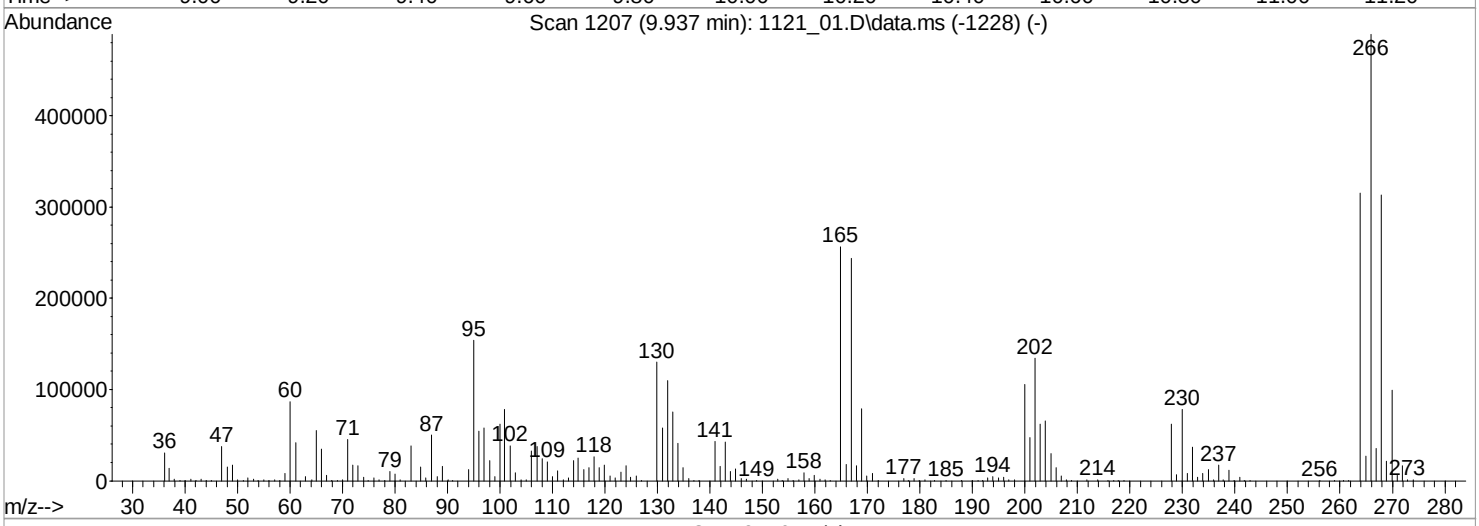
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	10	80	47.1	218104	PASS
68	69	0.00	2	1.5	3186	PASS
70	69	0.00	2	0.5	998	PASS
127	198	10	80	52.8	244096	PASS
197	198	0.00	2	0.0	0	PASS
198	198	50	100	100.0	462699	PASS
199	198	5	9	6.7	30936	PASS
275	198	10	60	23.3	107936	PASS
365	198	1	100	3.0	13886	PASS
441	442	0.01	24	15.2	48896	PASS
442	198	50	100	69.7	322347	PASS
443	442	15	24	19.4	62496	PASS

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\112114\
Data File : 1121 01.D
Acq On : 21 Nov 2014 3:45 pm
Operator : 377
Sample : TUNE SVMS 50 PPM 14K19964
Misc : DFTPP TUNE
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 21 16:07:11 2014
Quant Method : C:\msdchem\1\methods\TUNEC.M
Quant Title : 8270 BNA
QLast Update : Tue May 21 10:58:22 2013
Response via : Initial Calibration





TIC: 1121_01.D\data.ms

(1) Pentachlorophenol (TM)

9.937min (-0.150) 52.7578986 ug/mL

Qvalue = 100

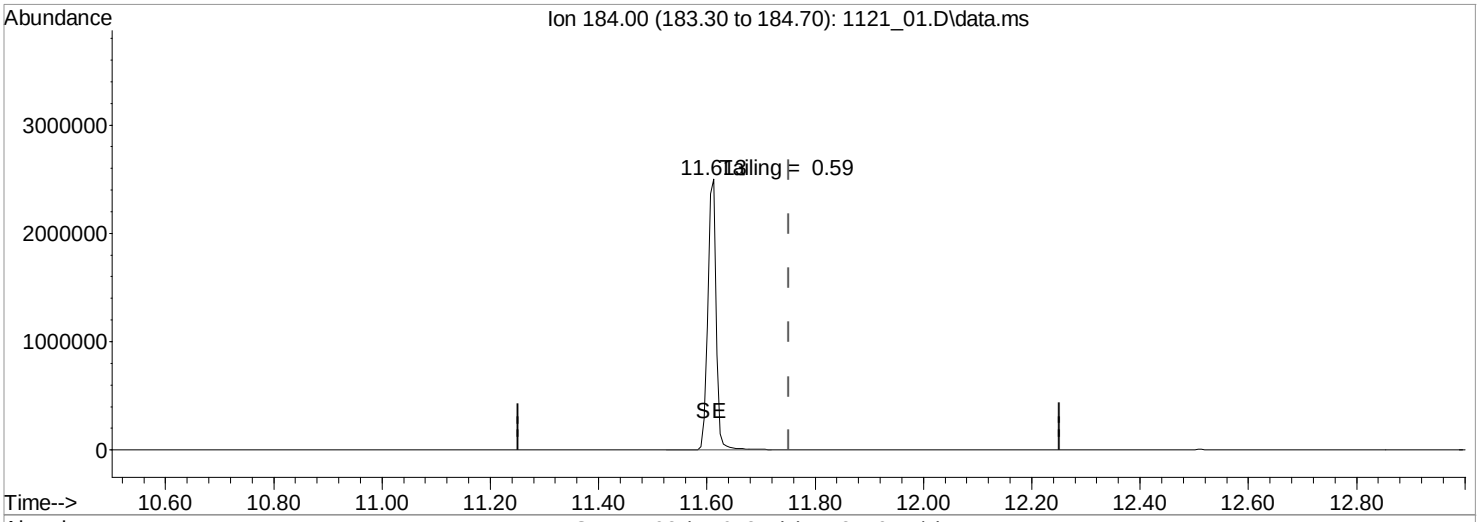
response 307855

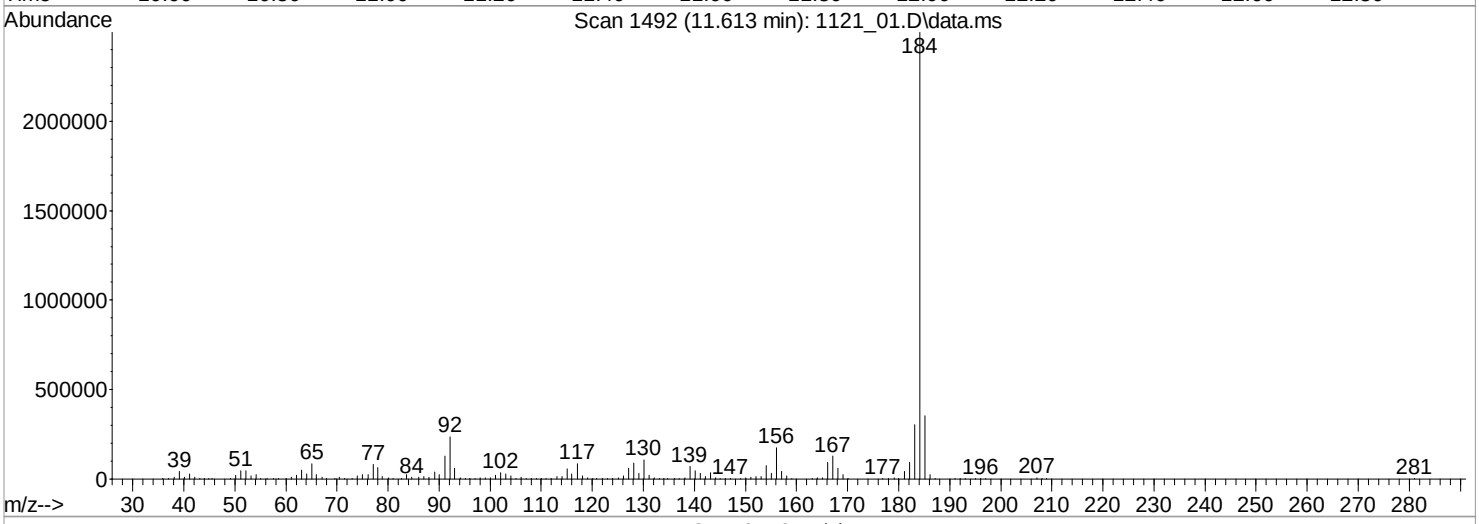
Ion	Exp%	Act%
264.00	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\112114\
Data File : 1121 01.D
Acq On : 21 Nov 2014 3:45 pm
Operator : 377
Sample : TUNE SVMS 50 PPM 14K19964
Misc : DFTPP TUNE
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 21 16:07:11 2014
Quant Method : C:\msdchem\1\methods\TUNEC.M
Quant Title : 8270 BNA
QLast Update : Tue May 21 10:58:22 2013
Response via : Initial Calibration





TIC: 1121_01.D\data.ms

(3) Benzidine (MT)

11.613min (-0.138) 112.2827857 ug/mL

Qvalue = 100

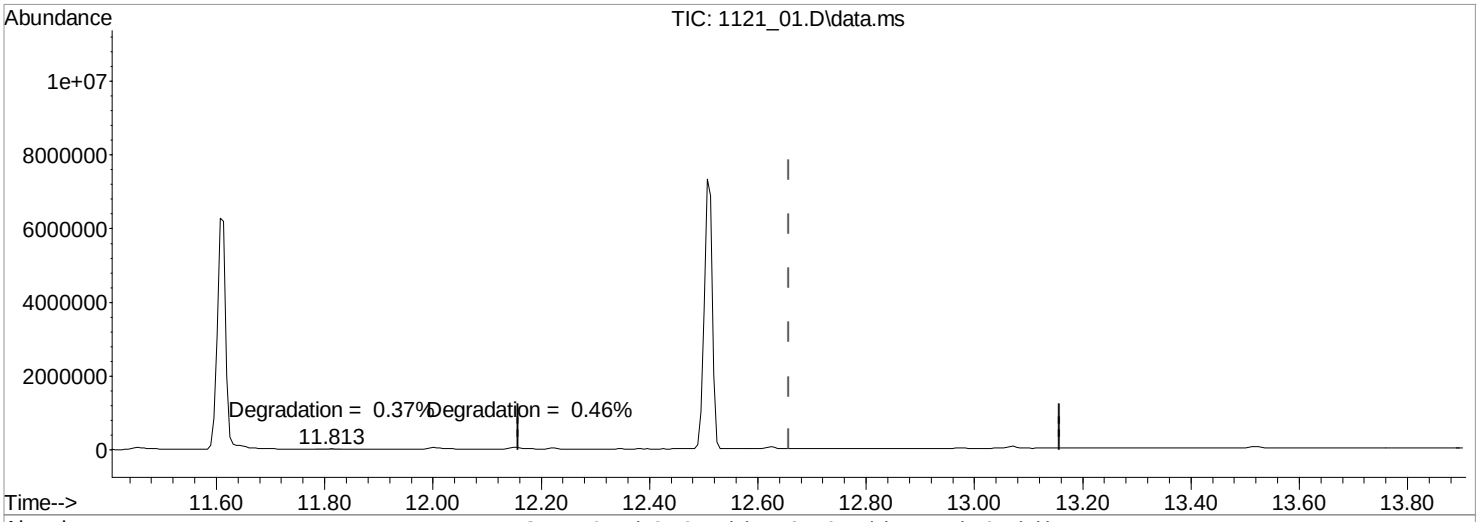
response 2694971

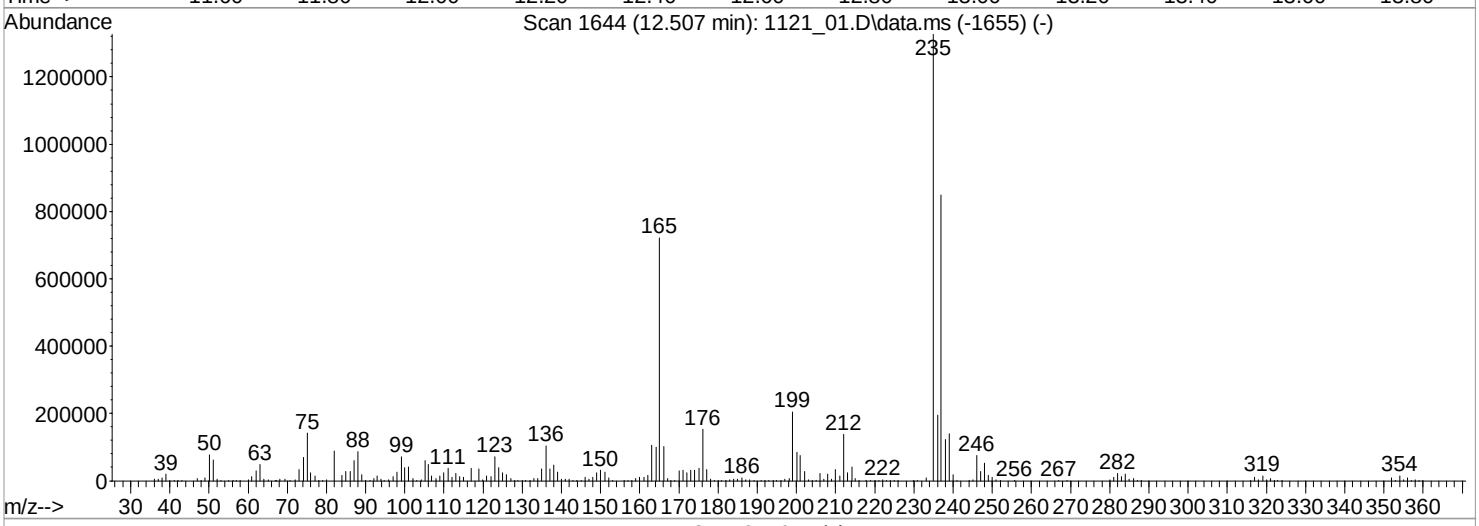
Ion	Exp%	Act%
184.00	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\112114\
Data File : 1121 01.D
Acq On : 21 Nov 2014 3:45 pm
Operator : 377
Sample : TUNE SVMS 50 PPM 14K19964
Misc : DFTPP TUNE
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 21 16:07:11 2014
Quant Method : C:\msdchem\1\methods\TUNEC.M
Quant Title : 8270 BNA
QLast Update : Tue May 21 10:58:22 2013
Response via : Initial Calibration





(4) DDT (MT)

12.507min (-0.150) 558.4044405 ug/ml

Qvalue = 100

response 7514013

Signal	Exp%	Act%
TIC	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Environmental Science Corporation
12065 Lebanon Rd., Mt. Juliet, TN 37122

INITIAL CALIBRATION SUMMARY

Instrument ID	: BNAMS19	Review Method	: 8270C	Released By	: Chris McCord
Method	: S819K21N	Review Protocol	: SW846	Released On	: 11/21/2014 4:43:35 PM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- S819K21N -- ICal Updated Time: Fri Nov 21 15:09:20 2014

Parameter	200	1000	2000	5000	10000	20000	30000	40000	50000	.2K1	1K1	2K1	5K1	10K1	20K1	30K1	40K1	50K1	AvgRF	%RSD	COD	Cur
1,4-Dichlorobenzene-d4																						
Pyridine		1.777	1.563	1.558	1.573	1.612	1.619	1.614	1.634										1.618676	4.32	0.043	1
N-Nitrosodimethylamine		0.772	0.728	0.738	0.785	0.811	0.831	0.832	0.844										0.792599	5.56	0.056	1
2-Fluorophenol	1.134	1.282	1.114	1.137	1.162	1.191	1.197	1.193	1.207										1.17964	4.26	0.043	1
Aniline	0.664	0.816	0.721	0.718	0.739	0.746	0.757	0.75	0.759										0.741102	5.48	0.055	1
bis(2-Chloroethyl)ether	1.005	1.178	1.057	1.061	1.07	1.074	1.072	1.057	1.066										1.071021	4.21	0.042	1
Phenol-d5	1.389	1.681	1.477	1.513	1.521	1.558	1.575	1.56	1.575										1.538647	5.19	0.052	1
Phenol	1.458	1.727	1.539	1.558	1.571	1.594	1.604	1.581	1.599										1.581161	4.46	0.045	1
Benzaldehyde										0.756	0.691	0.649	0.654	0.693	0.718	0.769	0.804	0.783	0.72431	7.8	0.078	1
2-Chlorophenol	1.231	1.465	1.333	1.356	1.401	1.397	1.427	1.418	1.42										1.383048	4.98	0.05	1
n-Decane	0.3	0.342	0.305	0.312	0.301	0.301	0.294	0.291	0.29										0.303936	5.19	0.052	1
1,3-Dichlorobenzene	1.496	1.697	1.527	1.516	1.528	1.545	1.543	1.542	1.552										1.549418	3.75	0.037	1
1,4-Dichlorobenzene	1.528	1.74	1.556	1.551	1.542	1.577	1.575	1.561	1.568										1.577497	3.99	0.04	1
Benzyl Alcohol	0.955	1.172	1.059	1.072	1.088	1.128	1.134	1.127	1.138										1.096944	5.84	0.058	1
1,2-Dichlorobenzene	1.417	1.71	1.492	1.491	1.488	1.524	1.521	1.502	1.504										1.516621	5.2	0.052	1
bis(2-Chloroisopropyl)ether	0.452	0.503	0.447	0.454	0.451	0.457	0.457	0.449	0.455										0.458227	3.78	0.038	1
2-Methylphenol	1.08	1.347	1.23	1.224	1.243	1.252	1.262	1.249	1.261										1.238617	5.6	0.056	1
Hexachloroethane	0.658	0.734	0.654	0.666	0.667	0.682	0.682	0.679	0.686										0.678563	3.48	0.035	1
N-Nitrosodi-n-propylamine	0.755	0.911	0.811	0.831	0.847	0.869	0.881	0.878	0.881										0.851484	5.53	0.055	1
3&4-Methyl phenol	1.217	1.467	1.316	1.334	1.366	1.382	1.423	1.402	1.402										1.367587	5.3	0.053	1
Acetophenone										2.016	1.969	1.978	1.969	2.052	2.009	1.973	1.973	1.963	1.988969	1.51	0.015	1
Naphthalene-d8																						

PDF Generated On: 11/21/2014 - By: Chris McCord

Environmental Science Corporation
12065 Lebanon Rd., Mt. Juliet, TN 37122

INITIAL CALIBRATION SUMMARY

Instrument ID	: BNAMS19	Review Method	: 8270C	Released By	: Chris McCord
Method	: S819K21N	Review Protocol	: SW846	Released On	: 11/21/2014 4:43:35 PM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- S819K21N -- ICal Updated Time: Fri Nov 21 15:09:20 2014

Parameter	200	1000	2000	5000	10000	20000	30000	40000	50000	.2K1	1K1	2K1	5K1	10K1	20K1	30K1	40K1	50K1	AvgRF	%RSD	COD	Cur
Nitrobenzene-d5	0.28	0.342	0.305	0.305	0.32	0.329	0.331	0.34	0.336										0.320781	6.4	0.064	1
Nitrobenzene	0.309	0.355	0.313	0.315	0.322	0.331	0.334	0.337	0.335										0.327916	4.4	0.044	1
Isophorone	0.5	0.611	0.549	0.553	0.57	0.581	0.59	0.591	0.589										0.570458	5.76	0.058	1
2-Nitrophenol		0.157	0.147	0.152	0.161	0.175	0.18	0.183	0.184										0.167324	8.78	0.088	1
2,4-Dimethylphenol	0.286	0.327	0.297	0.299	0.309	0.31	0.31	0.313	0.311										0.30677	3.83	0.038	1
bis(2-Chlorethoxy)methane	0.369	0.435	0.386	0.375	0.387	0.39	0.395	0.398	0.393										0.391876	4.77	0.048	1
2,4-Dichlorophenol	0.226	0.265	0.247	0.25	0.257	0.268	0.271	0.273	0.272										0.25872	6.08	0.061	1
Benzoic Acid										0.059	0.092	0.127	0.153	0.189	0.192	0.209	0.241	0.237	0.16657	38.16	0.998	3
1,2,4-Trichlorobenzene	0.276	0.325	0.292	0.287	0.288	0.298	0.297	0.299	0.292										0.294926	4.5	0.045	1
Naphthalene	1.193	1.159	1.016	0.966	0.99	0.989	0.99	0.993	0.972										1.029878	8.2	0.082	1
4-Chloroaniline	0.115	0.13	0.121	0.117	0.119	0.122	0.123	0.125	0.124										0.121828	3.74	0.037	1
Hexachloro-1,3-butadiene	0.154	0.182	0.16	0.155	0.16	0.16	0.162	0.164	0.161										0.161981	4.98	0.05	1
Caprolactam										0.106	0.098	0.094	0.094	0.097	0.096	0.099	0.102	0.103	0.098681	4.25	0.042	1
4-Chloro-3-methylphenol	0.238	0.283	0.256	0.257	0.269	0.283	0.29	0.294	0.291										0.27349	7.07	0.071	1
2-Methylnaphthalene	0.658	0.752	0.683	0.667	0.681	0.7	0.697	0.698	0.687										0.691426	3.88	0.039	1
1-Methylnaphthalene	0.61	0.719	0.639	0.623	0.641	0.658	0.654	0.655	0.649										0.649586	4.69	0.047	1
1,2,4,5-Tetrachlorobenzene										0.343	0.332	0.326	0.326	0.328	0.322	0.32	0.317	0.317	0.325633	2.53	0.025	1
Acenaphthene-d10																						
Hexachlorocyclopentadiene	0.246	0.29	0.252	0.248	0.266	0.284	0.284	0.286	0.291										0.272075	6.91	0.069	1
2,4,6-Trichlorophenol	0.242	0.289	0.26	0.267	0.283	0.299	0.306	0.309	0.314										0.285356	8.66	0.087	1
2,4,5-Trichlorophenol	0.25	0.319	0.296	0.292	0.313	0.33	0.329	0.332	0.334										0.310509	8.84	0.088	1
2-Fluorobiphenyl	1.087	1.296	1.127	1.086	1.13	1.138	1.135	1.113	1.111										1.135805	5.54	0.055	1

PDF Generated On: 11/21/2014 -- By: Chris McCord

Environmental Science Corporation
12065 Lebanon Rd., Mt. Juliet, TN 37122

INITIAL CALIBRATION SUMMARY

Instrument ID	: BNAMS19	Review Method	: 8270C	Released By	: Chris McCord
Method	: S819K21N	Review Protocol	: SW846	Released On	: 11/21/2014 4:43:35 PM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- S819K21N -- ICal Updated Time: Fri Nov 21 15:09:20 2014

Parameter	200	1000	2000	5000	10000	20000	30000	40000	50000	.2K1	1K1	2K1	5K1	10K1	20K1	30K1	40K1	50K1	AvgRF	%RSD	COD	Cur
Biphenyl	1.264	1.47	1.299	1.245	1.291	1.299	1.283	1.276	1.268										1.29961	5.1	0.051	1
2-Chloronaphthalene	0.938	1.148	0.997	0.97	0.995	1.01	1.007	0.986	0.998										1.0056	5.75	0.057	1
2-Nitroaniline		0.313	0.296	0.307	0.336	0.368	0.37	0.373	0.381										0.342898	9.97	0.1	1
Acenaphthylene	1.386	1.766	1.546	1.55	1.592	1.635	1.62	1.589	1.593										1.586511	6.25	0.063	1
Dimethyl phthalate	1.022	1.3	1.145	1.112	1.145	1.156	1.138	1.135	1.141										1.143906	6.23	0.062	1
2,6-Dinitrotoluene		0.268	0.25	0.251	0.265	0.282	0.281	0.28	0.285										0.270269	5.21	0.052	1
3-Nitroaniline		0.306	0.28	0.289	0.311	0.324	0.323	0.319	0.324										0.30944	5.48	0.055	1
Acenaphthene	1.089	1.235	1.098	1.053	1.083	1.092	1.089	1.071	1.067										1.097395	4.87	0.049	1
2,4-Dinitrophenol			0.075	0.094	0.113	0.137	0.145	0.152	0.158										0.124732	25.23	0.995	0
Dibenzofuran	1.331	1.656	1.434	1.39	1.443	1.459	1.425	1.431	1.432										1.444616	6.08	0.061	1
2,4-Dinitrotoluene		0.321	0.294	0.323	0.345	0.369	0.374	0.373	0.381										0.347354	9.24	0.092	1
2,3,4,6-Tetrachlorophenol										0.203	0.2	0.218	0.228	0.247	0.225	0.227	0.217	0.224	0.220999	6.39	0.064	1
4-Nitrophenol		0.219	0.204	0.221	0.242	0.249	0.251	0.257	0.262										0.238185	8.8	0.088	1
Fluorene	1.127	1.372	1.221	1.182	1.219	1.24	1.209	1.204	1.197										1.218985	5.39	0.054	1
4-Chlorophenyl-phenylether	0.49	0.615	0.546	0.531	0.55	0.553	0.551	0.544	0.548										0.547655	5.83	0.058	1
Diethyl phthalate	1.168	1.382	1.218	1.178	1.222	1.227	1.194	1.186	1.186										1.217877	5.34	0.053	1
4-Nitroaniline		0.319	0.286	0.306	0.306	0.27	0.251	0.252	0.258										0.281092	9.58	0.096	1
Azobenzene	1.072	1.405	1.255	1.234	1.271	1.309	1.282	1.26	1.275										1.26266	6.86	0.069	1
Atrazine										0.298	0.329	0.328	0.348	0.371	0.361	0.364	0.357	0.358	0.34591	6.79	0.068	1
Phenanthrene-d10																						
4,6-Dinitro-2-methylphenol			0.069	0.083	0.096	0.108	0.115	0.118	0.122										0.101511	19.63	0.997	0
N-Nitrosodiphenylamine	0.519	0.635	0.573	0.558	0.584	0.594	0.591	0.586	0.576										0.579531	5.35	0.053	1

PDF Generated On: 11/21/2014 - By: Chris McCord

Environmental Science Corporation
12065 Lebanon Rd., Mt. Juliet, TN 37122

INITIAL CALIBRATION SUMMARY

Instrument ID	: BNAMS19	Review Method	: 8270C	Released By	: Chris McCord
Method	: S819K21N	Review Protocol	: SW846	Released On	: 11/21/2014 4:43:35 PM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- S819K21N -- ICal Updated Time: Fri Nov 21 15:09:20 2014

Parameter	200	1000	2000	5000	10000	20000	30000	40000	50000	.2K1	1K1	2K1	5K1	10K1	20K1	30K1	40K1	50K1	AvgRF	%RSD	COD	Cur
2,4,6-Tribromophenol		0.086	0.075	0.08	0.088	0.094	0.098	0.098	0.099										0.089579	9.91	0.099	1
4-Bromophenyl-phenylether	0.175	0.197	0.174	0.173	0.179	0.188	0.189	0.187	0.188										0.183337	4.59	0.046	1
Hexachlorobenzene	0.214	0.222	0.205	0.197	0.2	0.205	0.208	0.205	0.205										0.20665	3.65	0.036	1
n-octadecane	0.129	0.144	0.124	0.126	0.132	0.132	0.132	0.13	0.129										0.130828	4.42	0.044	1
Pentachlorophenol	0.066	0.093	0.085	0.094	0.103	0.115													0.092852	17.71	0.994	0
Phenanthrene	1.038	1.188	1.043	0.998	1.036	1.039	1.035	1.013	1.009										1.044363	5.38	0.054	1
Anthracene	0.978	1.143	1.035	1.009	1.049	1.081	1.063	1.045	1.034										1.048498	4.42	0.044	1
Carbazole	0.861	1.068	0.974	0.948	0.986	0.972	0.926	0.881	0.826										0.937837	7.88	0.079	1
Di-n-butyl phthalate	1.058	1.312	1.191	1.194	1.285	1.308	1.302	1.261	1.243										1.239372	6.63	0.066	1
2-nitrodiphenylamine											0.185	0.196	0.234	0.282	0.284	0.294	0.305	0.303	0.26051	18.66	0.999	0
Fluoranthene	0.986	1.187	1.085	1.056	1.144	1.149	1.133	1.102	1.103										1.10499	5.34	0.053	1
Chrysene-d12																						
Benzidine											0.398	0.431	0.497	0.638	0.744	0.786	0.776	0.785	0.631867	26.36	0.996	0
Pyrene	1.051	1.272	1.149	1.144	1.159	1.168	1.174	1.131	1.132										1.153242	4.98	0.05	1
p-Terphenyl-d14	0.741	0.918	0.814	0.798	0.799	0.822	0.821	0.805	0.797										0.81271	5.67	0.057	1
Benzylbutyl phthalate	0.475	0.586	0.534	0.543	0.572	0.606	0.613	0.608	0.621										0.573032	8.38	0.084	1
3,3-Dichlorobenzidine										0.4	0.433	0.449	0.463	0.486	0.481	0.483	0.474	0.477	0.460541	6.22	0.062	1
Benzo(a)anthracene	1.094	1.227	1.092	1.087	1.097	1.123	1.131	1.1	1.09										1.115586	3.97	0.04	1
Chrysene	0.976	1.156	1.037	1.001	1.011	1.054	1.042	1.009	0.988										1.030549	5.21	0.052	1
bis(2-Ethylhexyl)phthalate	1.01	0.933	0.824	0.823	0.857	0.895	0.91	0.893	0.9										0.893815	6.45	0.064	1
Di-n-octyl phthalate	0.999	1.402	1.332	1.377	1.458	1.515	1.533	1.474	1.484										1.396959	11.67	0.117	1
Perylene-d12																						

PDF Generated On: 11/21/2014 - By: Chris McCord

Environmental Science Corporation
12065 Lebanon Rd., Mt. Juliet, TN 37122

INITIAL CALIBRATION SUMMARY

Instrument ID	:	BNAMS19	Review Method	:	8270C	Released By	:	Chris McCord
Method	:	S819K21N	Review Protocol	:	SW846	Released On	:	11/21/2014 4:43:35 PM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- S819K21N -- ICal Updated Time: Fri Nov 21 15:09:20 2014

Parameter	200	1000	2000	5000	10000	20000	30000	40000	50000	.2K1	1K1	2K1	5K1	10K1	20K1	30K1	40K1	50K1	AvgRF	%RSD	COD	Cur
Benzo(b)fluoranthene	0.889	1.159	1.026	1.017	1.017	1.132	1.087	1.114	1.088										1.058676	7.72	0.077	1
Benzo(k)fluoranthene	0.906	1.062	0.967	0.965	1.041	1.027	1.076	1.025	1.04										1.012071	5.43	0.054	1
Benzo(a)pyrene	0.82	1.037	0.922	0.937	0.99	1.028	1.027	1.012	1.012										0.976114	7.29	0.073	1
Indeno(1,2,3-cd)pyrene	0.86	1.14	1.031	1.032	1.077	1.109	1.095	1.089	1.091										1.058202	7.74	0.077	1
Dibenz(a,h)anthracene	0.735	0.978	0.87	0.878	0.914	0.944	0.936	0.93	0.926										0.90105	7.82	0.078	1
Benzo(g,h,i)perylene	0.768	0.979	0.877	0.865	0.901	0.922	0.902	0.888	0.874										0.886095	6.33	0.063	1

PDF Generated On: 11/21/2014 -- By: Chris McCord

Environmental Science Corporation
12065 Lebanon Rd., Mt. Juliet, TN 37122

INITIAL CALIBRATION SUMMARY

Instrument ID	: BNAMS19	Review Method	: 625	Released By	: Chris McCord
Method	: S819K21N	Review Protocol	: EPA	Released On	: 11/21/2014 4:42:54 PM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- S819K21N -- ICal Updated Time: Fri Nov 21 15:09:20 2014

Parameter	200	1000	2000	5000	10000	20000	30000	40000	50000	.2K1	1K1	2K1	5K1	10K1	20K1	30K1	40K1	50K1	AvgRF	%RSD	COD	Cur
1,4-Dichlorobenzene-d4																						
Pyridine		1.777	1.563	1.558	1.573	1.612	1.619	1.614	1.634										1.618676	4.32	0.043	1
N-Nitrosodimethylamine		0.772	0.728	0.738	0.785	0.811	0.831	0.832	0.844										0.792599	5.56	0.056	1
2-Fluorophenol	1.134	1.282	1.114	1.137	1.162	1.191	1.197	1.193	1.207										1.17964	4.26	0.043	1
Aniline	0.664	0.816	0.721	0.718	0.739	0.746	0.757	0.75	0.759										0.741102	5.48	0.055	1
bis(2-Chloroethyl)ether	1.005	1.178	1.057	1.061	1.07	1.074	1.072	1.057	1.066										1.071021	4.21	0.042	1
Phenol-d5	1.389	1.681	1.477	1.513	1.521	1.558	1.575	1.56	1.575										1.538647	5.19	0.052	1
Phenol	1.458	1.727	1.539	1.558	1.571	1.594	1.604	1.581	1.599										1.581161	4.46	0.045	1
Benzaldehyde										0.756	0.691	0.649	0.654	0.693	0.718	0.769	0.804	0.783	0.72431	7.8	0.078	1
2-Chlorophenol	1.231	1.465	1.333	1.356	1.401	1.397	1.427	1.418	1.42										1.383048	4.98	0.05	1
n-Decane	0.3	0.342	0.305	0.312	0.301	0.301	0.294	0.291	0.29										0.303936	5.19	0.052	1
1,3-Dichlorobenzene	1.496	1.697	1.527	1.516	1.528	1.545	1.543	1.542	1.552										1.549418	3.75	0.037	1
1,4-Dichlorobenzene	1.528	1.74	1.556	1.551	1.542	1.577	1.575	1.561	1.568										1.577497	3.99	0.04	1
Benzyl Alcohol	0.955	1.172	1.059	1.072	1.088	1.128	1.134	1.127	1.138										1.096944	5.84	0.058	1
1,2-Dichlorobenzene	1.417	1.71	1.492	1.491	1.488	1.524	1.521	1.502	1.504										1.516621	5.2	0.052	1
bis(2-Chloroisopropyl)ether	0.452	0.503	0.447	0.454	0.451	0.457	0.457	0.449	0.455										0.458227	3.78	0.038	1
2-Methylphenol	1.08	1.347	1.23	1.224	1.243	1.252	1.262	1.249	1.261										1.238617	5.6	0.056	1
Hexachloroethane	0.658	0.734	0.654	0.666	0.667	0.682	0.682	0.679	0.686										0.678563	3.48	0.035	1
N-Nitrosodi-n-propylamine	0.755	0.911	0.811	0.831	0.847	0.869	0.881	0.878	0.881										0.851484	5.53	0.055	1
3&4-Methyl phenol	1.217	1.467	1.316	1.334	1.366	1.382	1.423	1.402	1.402										1.367587	5.3	0.053	1
Acetophenone										2.016	1.969	1.978	1.969	2.052	2.009	1.973	1.973	1.963	1.988969	1.51	0.015	1
Naphthalene-d8																						

PDF Generated On: 11/21/2014 - By: Chris McCord

Environmental Science Corporation
12065 Lebanon Rd., Mt. Juliet, TN 37122

INITIAL CALIBRATION SUMMARY

Instrument ID	: BNAMS19	Review Method	: 625	Released By	: Chris McCord
Method	: S819K21N	Review Protocol	: EPA	Released On	: 11/21/2014 4:42:54 PM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- S819K21N -- ICal Updated Time: Fri Nov 21 15:09:20 2014

Parameter	200	1000	2000	5000	10000	20000	30000	40000	50000	.2K1	1K1	2K1	5K1	10K1	20K1	30K1	40K1	50K1	AvgRF	%RSD	COD	Cur
Nitrobenzene-d5	0.28	0.342	0.305	0.305	0.32	0.329	0.331	0.34	0.336										0.320781	6.4	0.064	1
Nitrobenzene	0.309	0.355	0.313	0.315	0.322	0.331	0.334	0.337	0.335										0.327916	4.4	0.044	1
Isophorone	0.5	0.611	0.549	0.553	0.57	0.581	0.59	0.591	0.589										0.570458	5.76	0.058	1
2-Nitrophenol		0.157	0.147	0.152	0.161	0.175	0.18	0.183	0.184										0.167324	8.78	0.088	1
2,4-Dimethylphenol	0.286	0.327	0.297	0.299	0.309	0.31	0.31	0.313	0.311										0.30677	3.83	0.038	1
bis(2-Chlorethoxy)methane	0.369	0.435	0.386	0.375	0.387	0.39	0.395	0.398	0.393										0.391876	4.77	0.048	1
2,4-Dichlorophenol	0.226	0.265	0.247	0.25	0.257	0.268	0.271	0.273	0.272										0.25872	6.08	0.061	1
Benzoic Acid										0.059	0.092	0.127	0.153	0.189	0.192	0.209	0.241	0.237	0.16657	38.16	0.998	3
1,2,4-Trichlorobenzene	0.276	0.325	0.292	0.287	0.288	0.298	0.297	0.299	0.292										0.294926	4.5	0.045	1
Naphthalene	1.193	1.159	1.016	0.966	0.99	0.989	0.99	0.993	0.972										1.029878	8.2	0.082	1
4-Chloroaniline	0.115	0.13	0.121	0.117	0.119	0.122	0.123	0.125	0.124										0.121828	3.74	0.037	1
Hexachloro-1,3-butadiene	0.154	0.182	0.16	0.155	0.16	0.16	0.162	0.164	0.161										0.161981	4.98	0.05	1
Caprolactam										0.106	0.098	0.094	0.094	0.097	0.096	0.099	0.102	0.103	0.098681	4.25	0.042	1
4-Chloro-3-methylphenol	0.238	0.283	0.256	0.257	0.269	0.283	0.29	0.294	0.291										0.27349	7.07	0.071	1
2-Methylnaphthalene	0.658	0.752	0.683	0.667	0.681	0.7	0.697	0.698	0.687										0.691426	3.88	0.039	1
1-Methylnaphthalene	0.61	0.719	0.639	0.623	0.641	0.658	0.654	0.655	0.649										0.649586	4.69	0.047	1
1,2,4,5-Tetrachlorobenzene										0.343	0.332	0.326	0.326	0.328	0.322	0.32	0.317	0.317	0.325633	2.53	0.025	1
Acenaphthene-d10																						
Hexachlorocyclopentadiene	0.246	0.29	0.252	0.248	0.266	0.284	0.284	0.286	0.291										0.272075	6.91	0.069	1
2,4,6-Trichlorophenol	0.242	0.289	0.26	0.267	0.283	0.299	0.306	0.309	0.314										0.285356	8.66	0.087	1
2,4,5-Trichlorophenol	0.25	0.319	0.296	0.292	0.313	0.33	0.329	0.332	0.334										0.310509	8.84	0.088	1
2-Fluorobiphenyl	1.087	1.296	1.127	1.086	1.13	1.138	1.135	1.113	1.111										1.135805	5.54	0.055	1

PDF Generated On: 11/21/2014 -- By: Chris McCord

Environmental Science Corporation
12065 Lebanon Rd., Mt. Juliet, TN 37122

INITIAL CALIBRATION SUMMARY

Instrument ID	: BNAMS19	Review Method	: 625	Released By	: Chris McCord
Method	: S819K21N	Review Protocol	: EPA	Released On	: 11/21/2014 4:42:54 PM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- S819K21N -- ICal Updated Time: Fri Nov 21 15:09:20 2014

Parameter	200	1000	2000	5000	10000	20000	30000	40000	50000	.2K1	1K1	2K1	5K1	10K1	20K1	30K1	40K1	50K1	AvgRF	%RSD	COD	Cur
Biphenyl	1.264	1.47	1.299	1.245	1.291	1.299	1.283	1.276	1.268										1.29961	5.1	0.051	1
2-Chloronaphthalene	0.938	1.148	0.997	0.97	0.995	1.01	1.007	0.986	0.998										1.0056	5.75	0.057	1
2-Nitroaniline		0.313	0.296	0.307	0.336	0.368	0.37	0.373	0.381										0.342898	9.97	0.1	1
Acenaphthylene	1.386	1.766	1.546	1.55	1.592	1.635	1.62	1.589	1.593										1.586511	6.25	0.063	1
Dimethyl phthalate	1.022	1.3	1.145	1.112	1.145	1.156	1.138	1.135	1.141										1.143906	6.23	0.062	1
2,6-Dinitrotoluene		0.268	0.25	0.251	0.265	0.282	0.281	0.28	0.285										0.270269	5.21	0.052	1
3-Nitroaniline		0.306	0.28	0.289	0.311	0.324	0.323	0.319	0.324										0.30944	5.48	0.055	1
Acenaphthene	1.089	1.235	1.098	1.053	1.083	1.092	1.089	1.071	1.067										1.097395	4.87	0.049	1
2,4-Dinitrophenol			0.075	0.094	0.113	0.137	0.145	0.152	0.158										0.124732	25.23	0.995	0
Dibenzofuran	1.331	1.656	1.434	1.39	1.443	1.459	1.425	1.431	1.432										1.444616	6.08	0.061	1
2,4-Dinitrotoluene		0.321	0.294	0.323	0.345	0.369	0.374	0.373	0.381										0.347354	9.24	0.092	1
2,3,4,6-Tetrachlorophenol										0.203	0.2	0.218	0.228	0.247	0.225	0.227	0.217	0.224	0.220999	6.39	0.064	1
4-Nitrophenol		0.219	0.204	0.221	0.242	0.249	0.251	0.257	0.262										0.238185	8.8	0.088	1
Fluorene	1.127	1.372	1.221	1.182	1.219	1.24	1.209	1.204	1.197										1.218985	5.39	0.054	1
4-Chlorophenyl-phenylether	0.49	0.615	0.546	0.531	0.55	0.553	0.551	0.544	0.548										0.547655	5.83	0.058	1
Diethyl phthalate	1.168	1.382	1.218	1.178	1.222	1.227	1.194	1.186	1.186										1.217877	5.34	0.053	1
4-Nitroaniline		0.319	0.286	0.306	0.306	0.27	0.251	0.252	0.258										0.281092	9.58	0.096	1
Azobenzene	1.072	1.405	1.255	1.234	1.271	1.309	1.282	1.26	1.275										1.26266	6.86	0.069	1
Atrazine										0.298	0.329	0.328	0.348	0.371	0.361	0.364	0.357	0.358	0.34591	6.79	0.068	1
Phenanthrene-d10																						
4,6-Dinitro-2-methylphenol			0.069	0.083	0.096	0.108	0.115	0.118	0.122										0.101511	19.63	0.997	0
N-Nitrosodiphenylamine	0.519	0.635	0.573	0.558	0.584	0.594	0.591	0.586	0.576										0.579531	5.35	0.053	1

PDF Generated On: 11/21/2014 - By: Chris McCord

Environmental Science Corporation
12065 Lebanon Rd., Mt. Juliet, TN 37122

INITIAL CALIBRATION SUMMARY

Instrument ID	: BNAMS19	Review Method	: 625	Released By	: Chris McCord
Method	: S819K21N	Review Protocol	: EPA	Released On	: 11/21/2014 4:42:54 PM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- S819K21N -- ICal Updated Time: Fri Nov 21 15:09:20 2014

Parameter	200	1000	2000	5000	10000	20000	30000	40000	50000	.2K1	1K1	2K1	5K1	10K1	20K1	30K1	40K1	50K1	AvgRF	%RSD	COD	Cur
2,4,6-Tribromophenol		0.086	0.075	0.08	0.088	0.094	0.098	0.098	0.099										0.089579	9.91	0.099	1
4-Bromophenyl-phenylether	0.175	0.197	0.174	0.173	0.179	0.188	0.189	0.187	0.188										0.183337	4.59	0.046	1
Hexachlorobenzene	0.214	0.222	0.205	0.197	0.2	0.205	0.208	0.205	0.205										0.20665	3.65	0.036	1
n-octadecane	0.129	0.144	0.124	0.126	0.132	0.132	0.132	0.13	0.129										0.130828	4.42	0.044	1
Pentachlorophenol	0.066	0.093	0.085	0.094	0.103	0.115													0.092852	17.71	0.994	0
Phenanthrene	1.038	1.188	1.043	0.998	1.036	1.039	1.035	1.013	1.009										1.044363	5.38	0.054	1
Anthracene	0.978	1.143	1.035	1.009	1.049	1.081	1.063	1.045	1.034										1.048498	4.42	0.044	1
Carbazole	0.861	1.068	0.974	0.948	0.986	0.972	0.926	0.881	0.826										0.937837	7.88	0.079	1
Di-n-butyl phthalate	1.058	1.312	1.191	1.194	1.285	1.308	1.302	1.261	1.243										1.239372	6.63	0.066	1
2-nitrodiphenylamine											0.185	0.196	0.234	0.282	0.284	0.294	0.305	0.303	0.26051	18.66	0.999	0
Fluoranthene	0.986	1.187	1.085	1.056	1.144	1.149	1.133	1.102	1.103										1.10499	5.34	0.053	1
Chrysene-d12																						
Benzidine											0.398	0.431	0.497	0.638	0.744	0.786	0.776	0.785	0.631867	26.36	0.996	0
Pyrene	1.051	1.272	1.149	1.144	1.159	1.168	1.174	1.131	1.132										1.153242	4.98	0.05	1
p-Terphenyl-d14	0.741	0.918	0.814	0.798	0.799	0.822	0.821	0.805	0.797										0.81271	5.67	0.057	1
Benzylbutyl phthalate	0.475	0.586	0.534	0.543	0.572	0.606	0.613	0.608	0.621										0.573032	8.38	0.084	1
3,3-Dichlorobenzidine										0.4	0.433	0.449	0.463	0.486	0.481	0.483	0.474	0.477	0.460541	6.22	0.062	1
Benzo(a)anthracene	1.094	1.227	1.092	1.087	1.097	1.123	1.131	1.1	1.09										1.115586	3.97	0.04	1
Chrysene	0.976	1.156	1.037	1.001	1.011	1.054	1.042	1.009	0.988										1.030549	5.21	0.052	1
bis(2-Ethylhexyl)phthalate	1.01	0.933	0.824	0.823	0.857	0.895	0.91	0.893	0.9										0.893815	6.45	0.064	1
Di-n-octyl phthalate	0.999	1.402	1.332	1.377	1.458	1.515	1.533	1.474	1.484										1.396959	11.67	0.117	1
Perylene-d12																						

PDF Generated On: 11/21/2014 - By: Chris McCord

Environmental Science Corporation
12065 Lebanon Rd., Mt. Juliet, TN 37122

INITIAL CALIBRATION SUMMARY

Instrument ID	:	BNAMS19	Review Method	:	625	Released By	:	Chris McCord
Method	:	S819K21N	Review Protocol	:	EPA	Released On	:	11/21/2014 4:42:54 PM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- S819K21N -- ICal Updated Time: Fri Nov 21 15:09:20 2014

Parameter	200	1000	2000	5000	10000	20000	30000	40000	50000	.2K1	1K1	2K1	5K1	10K1	20K1	30K1	40K1	50K1	AvgRF	%RSD	COD	Cur
Benzo(b)fluoranthene	0.889	1.159	1.026	1.017	1.017	1.132	1.087	1.114	1.088										1.058676	7.72	0.077	1
Benzo(k)fluoranthene	0.906	1.062	0.967	0.965	1.041	1.027	1.076	1.025	1.04										1.012071	5.43	0.054	1
Benzo(a)pyrene	0.82	1.037	0.922	0.937	0.99	1.028	1.027	1.012	1.012										0.976114	7.29	0.073	1
Indeno(1,2,3-cd)pyrene	0.86	1.14	1.031	1.032	1.077	1.109	1.095	1.089	1.091										1.058202	7.74	0.077	1
Dibenz(a,h)anthracene	0.735	0.978	0.87	0.878	0.914	0.944	0.936	0.93	0.926										0.90105	7.82	0.078	1
Benzo(g,h,i)perylene	0.768	0.979	0.877	0.865	0.901	0.922	0.902	0.888	0.874										0.886095	6.33	0.063	1

PDF Generated On: 11/21/2014 -- By: Chris McCord

Environmental Science Corporation
12065 Lebanon Rd., Mt. Juliet, TN 37122

INITIAL CALIBRATION SUMMARY

Instrument ID	: BNAMS19	Review Method	: 8270D	Released By	: Chris McCord
Method	: S819K21N	Review Protocol	: SW846	Released On	: 11/21/2014 4:43:15 PM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- S819K21N -- ICal Updated Time: Fri Nov 21 15:09:20 2014

Parameter	200	1000	2000	5000	10000	20000	30000	40000	50000	.2K1	1K1	2K1	5K1	10K1	20K1	30K1	40K1	50K1	AvgRF	%RSD	COD	Cur	RF
1,4-Dichlorobenzene-d4																							
Pyridine		1.777	1.563	1.558	1.573	1.612	1.619	1.614	1.634										1.618676	4.32	0.043	1	
N-Nitrosodimethylamine		0.772	0.728	0.738	0.785	0.811	0.831	0.832	0.844										0.792599	5.56	0.056	1	
2-Fluorophenol	1.134	1.282	1.114	1.137	1.162	1.191	1.197	1.193	1.207										1.17964	4.26	0.043	1	
Aniline	0.664	0.816	0.721	0.718	0.739	0.746	0.757	0.75	0.759										0.741102	5.48	0.055	1	
bis(2-Chloroethyl)ether	1.005	1.178	1.057	1.061	1.07	1.074	1.072	1.057	1.066										1.071021	4.21	0.042	1	0.7
Phenol-d5	1.389	1.681	1.477	1.513	1.521	1.558	1.575	1.56	1.575										1.538647	5.19	0.052	1	
Phenol	1.458	1.727	1.539	1.558	1.571	1.594	1.604	1.581	1.599										1.581161	4.46	0.045	1	0.8
Benzaldehyde										0.756	0.691	0.649	0.654	0.693	0.718	0.769	0.804	0.783	0.72431	7.8	0.078	1	0.01
2-Chlorophenol	1.231	1.465	1.333	1.356	1.401	1.397	1.427	1.418	1.42										1.383048	4.98	0.05	1	0.8
n-Decane	0.3	0.342	0.305	0.312	0.301	0.301	0.294	0.291	0.29										0.303936	5.19	0.052	1	
1,3-Dichlorobenzene	1.496	1.697	1.527	1.516	1.528	1.545	1.543	1.542	1.552										1.549418	3.75	0.037	1	
1,4-Dichlorobenzene	1.528	1.74	1.556	1.551	1.542	1.577	1.575	1.561	1.568										1.577497	3.99	0.04	1	
Benzyl Alcohol	0.955	1.172	1.059	1.072	1.088	1.128	1.134	1.127	1.138										1.096944	5.84	0.058	1	
1,2-Dichlorobenzene	1.417	1.71	1.492	1.491	1.488	1.524	1.521	1.502	1.504										1.516621	5.2	0.052	1	
bis(2-Chloroisopropyl)ether	0.452	0.503	0.447	0.454	0.451	0.457	0.457	0.449	0.455										0.458227	3.78	0.038	1	
2-Methylphenol	1.08	1.347	1.23	1.224	1.243	1.252	1.262	1.249	1.261										1.238617	5.6	0.056	1	0.7
Hexachloroethane	0.658	0.734	0.654	0.666	0.667	0.682	0.682	0.679	0.686										0.678563	3.48	0.035	1	0.3
N-Nitrosodi-n-propylamine	0.755	0.911	0.811	0.831	0.847	0.869	0.881	0.878	0.881										0.851484	5.53	0.055	1	0.5
3&4-Methyl phenol	1.217	1.467	1.316	1.334	1.366	1.382	1.423	1.402	1.402										1.367587	5.3	0.053	1	0.6
Acetophenone										2.016	1.969	1.978	1.969	2.052	2.009	1.973	1.973	1.963	1.988969	1.51	0.015	1	0.01
Naphthalene-d8																							

PDF Generated On: 11/21/2014 - By: Chris McCord

Environmental Science Corporation
12065 Lebanon Rd., Mt. Juliet, TN 37122

INITIAL CALIBRATION SUMMARY

Instrument ID	: BNAMS19	Review Method	: 8270D	Released By	: Chris McCord
Method	: S819K21N	Review Protocol	: SW846	Released On	: 11/21/2014 4:43:15 PM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- S819K21N -- ICal Updated Time: Fri Nov 21 15:09:20 2014

Parameter	200	1000	2000	5000	10000	20000	30000	40000	50000	.2K1	1K1	2K1	5K1	10K1	20K1	30K1	40K1	50K1	AvgRF	%RSD	COD	Cur	RF
Nitrobenzene-d5	0.28	0.342	0.305	0.305	0.32	0.329	0.331	0.34	0.336										0.320781	6.4	0.064	1	
Nitrobenzene	0.309	0.355	0.313	0.315	0.322	0.331	0.334	0.337	0.335										0.327916	4.4	0.044	1	0.2
Isophorone	0.5	0.611	0.549	0.553	0.57	0.581	0.59	0.591	0.589										0.570458	5.76	0.058	1	0.4
2-Nitrophenol		0.157	0.147	0.152	0.161	0.175	0.18	0.183	0.184										0.167324	8.78	0.088	1	0.1
2,4-Dimethylphenol	0.286	0.327	0.297	0.299	0.309	0.31	0.31	0.313	0.311										0.30677	3.83	0.038	1	0.2
bis(2-Chlorethoxy)methane	0.369	0.435	0.386	0.375	0.387	0.39	0.395	0.398	0.393										0.391876	4.77	0.048	1	0.3
2,4-Dichlorophenol	0.226	0.265	0.247	0.25	0.257	0.268	0.271	0.273	0.272										0.25872	6.08	0.061	1	0.2
Benzoic Acid										0.059	0.092	0.127	0.153	0.189	0.192	0.209	0.241	0.237	0.16657	38.16	0.998	3	
1,2,4-Trichlorobenzene	0.276	0.325	0.292	0.287	0.288	0.298	0.297	0.299	0.292										0.294926	4.5	0.045	1	
Naphthalene	1.193	1.159	1.016	0.966	0.99	0.989	0.99	0.993	0.972										1.029878	8.2	0.082	1	0.7
4-Chloroaniline	0.115	0.13	0.121	0.117	0.119	0.122	0.123	0.125	0.124										0.121828	3.74	0.037	1	0.01
Hexachloro-1,3-butadiene	0.154	0.182	0.16	0.155	0.16	0.16	0.162	0.164	0.161										0.161981	4.98	0.05	1	0.01
Caprolactam										0.106	0.098	0.094	0.094	0.097	0.096	0.099	0.102	0.103	0.098681	4.25	0.042	1	0.01
4-Chloro-3-methylphenol	0.238	0.283	0.256	0.257	0.269	0.283	0.29	0.294	0.291										0.27349	7.07	0.071	1	0.2
2-Methylnaphthalene	0.658	0.752	0.683	0.667	0.681	0.7	0.697	0.698	0.687										0.691426	3.88	0.039	1	0.4
1-Methylnaphthalene	0.61	0.719	0.639	0.623	0.641	0.658	0.654	0.655	0.649										0.649586	4.69	0.047	1	
1,2,4,5-Tetrachlorobenzene										0.343	0.332	0.326	0.326	0.328	0.322	0.32	0.317	0.317	0.325633	2.53	0.025	1	0.01
Acenaphthene-d10																							
Hexachlorocyclopentadiene	0.246	0.29	0.252	0.248	0.266	0.284	0.284	0.286	0.291										0.272075	6.91	0.069	1	0.05
2,4,6-Trichlorophenol	0.242	0.289	0.26	0.267	0.283	0.299	0.306	0.309	0.314										0.285356	8.66	0.087	1	0.2
2,4,5-Trichlorophenol	0.25	0.319	0.296	0.292	0.313	0.33	0.329	0.332	0.334										0.310509	8.84	0.088	1	0.2
2-Fluorobiphenyl	1.087	1.296	1.127	1.086	1.13	1.138	1.135	1.113	1.111										1.135805	5.54	0.055	1	

PDF Generated On: 11/21/2014 -- By: Chris McCord

Environmental Science Corporation
12065 Lebanon Rd., Mt. Juliet, TN 37122

INITIAL CALIBRATION SUMMARY

Instrument ID	: BNAMS19	Review Method	: 8270D	Released By	: Chris McCord
Method	: S819K21N	Review Protocol	: SW846	Released On	: 11/21/2014 4:43:15 PM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- S819K21N -- ICal Updated Time: Fri Nov 21 15:09:20 2014

Parameter	200	1000	2000	5000	10000	20000	30000	40000	50000	.2K1	1K1	2K1	5K1	10K1	20K1	30K1	40K1	50K1	AvgRF	%RSD	COD	Cur	RF
Biphenyl	1.264	1.47	1.299	1.245	1.291	1.299	1.283	1.276	1.268										1.29961	5.1	0.051	1	0.01
-Chloronaphthalene	0.938	1.148	0.997	0.97	0.995	1.01	1.007	0.986	0.998										1.0056	5.75	0.057	1	0.8
-Nitroaniline		0.313	0.296	0.307	0.336	0.368	0.37	0.373	0.381										0.342898	9.97	0.1	1	0.01
Acenaphthylene	1.386	1.766	1.546	1.55	1.592	1.635	1.62	1.589	1.593										1.586511	6.25	0.063	1	0.9
Dimethyl phthalate	1.022	1.3	1.145	1.112	1.145	1.156	1.138	1.135	1.141										1.143906	6.23	0.062	1	0.01
,6-Dinitrotoluene		0.268	0.25	0.251	0.265	0.282	0.281	0.28	0.285										0.270269	5.21	0.052	1	0.2
-Nitroaniline		0.306	0.28	0.289	0.311	0.324	0.323	0.319	0.324										0.30944	5.48	0.055	1	0.01
Acenaphthene	1.089	1.235	1.098	1.053	1.083	1.092	1.089	1.071	1.067										1.097395	4.87	0.049	1	0.9
2,4-Dinitrophenol			0.075	0.094	0.113	0.137	0.145	0.152	0.158										0.124732	25.23	0.995	0	0.01
Dibenzofuran	1.331	1.656	1.434	1.39	1.443	1.459	1.425	1.431	1.432										1.444616	6.08	0.061	1	0.8
2,4-Dinitrotoluene		0.321	0.294	0.323	0.345	0.369	0.374	0.373	0.381										0.347354	9.24	0.092	1	0.2
2,3,4,6-Tetrachlorophenol										0.203	0.2	0.218	0.228	0.247	0.225	0.227	0.217	0.224	0.220999	6.39	0.064	1	0.01
4-Nitrophenol		0.219	0.204	0.221	0.242	0.249	0.251	0.257	0.262										0.238185	8.8	0.088	1	0.01
Fluorene	1.127	1.372	1.221	1.182	1.219	1.24	1.209	1.204	1.197										1.218985	5.39	0.054	1	0.9
4-Chlorophenyl-phenylether	0.49	0.615	0.546	0.531	0.55	0.553	0.551	0.544	0.548										0.547655	5.83	0.058	1	0.4
Diethyl phthalate	1.168	1.382	1.218	1.178	1.222	1.227	1.194	1.186	1.186										1.217877	5.34	0.053	1	0.01
4-Nitroaniline		0.319	0.286	0.306	0.306	0.27	0.251	0.252	0.258										0.281092	9.58	0.096	1	0.01
Azobenzene	1.072	1.405	1.255	1.234	1.271	1.309	1.282	1.26	1.275										1.26266	6.86	0.069	1	
Atrazine										0.298	0.329	0.328	0.348	0.371	0.361	0.364	0.357	0.358	0.34591	6.79	0.068	1	0.01
Phenanthrene-d10																							
4,6-Dinitro-2-methylphenol			0.069	0.083	0.096	0.108	0.115	0.118	0.122										0.101511	19.63	0.997	0	0.01
-Nitrosodiphenylamine	0.519	0.635	0.573	0.558	0.584	0.594	0.591	0.586	0.576										0.579531	5.35	0.053	1	0.01

PDF Generated On: 11/21/2014 - By: Chris McCord

Environmental Science Corporation
12065 Lebanon Rd., Mt. Juliet, TN 37122

INITIAL CALIBRATION SUMMARY

Instrument ID	: BNAMS19	Review Method	: 8270D	Released By	: Chris McCord
Method	: S819K21N	Review Protocol	: SW846	Released On	: 11/21/2014 4:43:15 PM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- S819K21N -- ICal Updated Time: Fri Nov 21 15:09:20 2014

Parameter	200	1000	2000	5000	10000	20000	30000	40000	50000	.2K1	1K1	2K1	5K1	10K1	20K1	30K1	40K1	50K1	AvgRF	%RSD	COD	Cur	RF
2,4,6-Tribromophenol		0.086	0.075	0.08	0.088	0.094	0.098	0.098	0.099										0.089579	9.91	0.099	1	
4-Bromophenyl-phenylether	0.175	0.197	0.174	0.173	0.179	0.188	0.189	0.187	0.188										0.183337	4.59	0.046	1	0.1
Hexachlorobenzene	0.214	0.222	0.205	0.197	0.2	0.205	0.208	0.205	0.205										0.20665	3.65	0.036	1	0.1
n-octadecane	0.129	0.144	0.124	0.126	0.132	0.132	0.132	0.13	0.129										0.130828	4.42	0.044	1	
Pentachlorophenol	0.066	0.093	0.085	0.094	0.103	0.115													0.092852	17.71	0.994	0	0.05
Phenanthrene	1.038	1.188	1.043	0.998	1.036	1.039	1.035	1.013	1.009										1.044363	5.38	0.054	1	0.7
Anthracene	0.978	1.143	1.035	1.009	1.049	1.081	1.063	1.045	1.034										1.048498	4.42	0.044	1	0.7
Carbazole	0.861	1.068	0.974	0.948	0.986	0.972	0.926	0.881	0.826										0.937837	7.88	0.079	1	0.01
Di-n-butyl phthalate	1.058	1.312	1.191	1.194	1.285	1.308	1.302	1.261	1.243										1.239372	6.63	0.066	1	0.01
2-nitrodiphenylamine											0.185	0.196	0.234	0.282	0.284	0.294	0.305	0.303	0.26051	18.66	0.999	0	
Fluoranthene	0.986	1.187	1.085	1.056	1.144	1.149	1.133	1.102	1.103										1.10499	5.34	0.053	1	0.6
Chrysene-d12																							
Benzidine											0.398	0.431	0.497	0.638	0.744	0.786	0.776	0.785	0.631867	26.36	0.996	0	
Pyrene	1.051	1.272	1.149	1.144	1.159	1.168	1.174	1.131	1.132										1.153242	4.98	0.05	1	0.6
p-Terphenyl-d14	0.741	0.918	0.814	0.798	0.799	0.822	0.821	0.805	0.797										0.81271	5.67	0.057	1	
Benzylbutyl phthalate	0.475	0.586	0.534	0.543	0.572	0.606	0.613	0.608	0.621										0.573032	8.38	0.084	1	0.01
3,3-Dichlorobenzidine										0.4	0.433	0.449	0.463	0.486	0.481	0.483	0.474	0.477	0.460541	6.22	0.062	1	0.01
Benzo(a)anthracene	1.094	1.227	1.092	1.087	1.097	1.123	1.131	1.1	1.09										1.115586	3.97	0.04	1	0.8
Chrysene	0.976	1.156	1.037	1.001	1.011	1.054	1.042	1.009	0.988										1.030549	5.21	0.052	1	0.7
bis(2-Ethylhexyl)phthalate	1.01	0.933	0.824	0.823	0.857	0.895	0.91	0.893	0.9										0.893815	6.45	0.064	1	0.01
Di-n-octyl phthalate	0.999	1.402	1.332	1.377	1.458	1.515	1.533	1.474	1.484										1.396959	11.67	0.117	1	0.01
Perylene-d12																							

PDF Generated On: 11/21/2014 -- By: Chris McCord

Environmental Science Corporation
12065 Lebanon Rd., Mt. Juliet, TN 37122

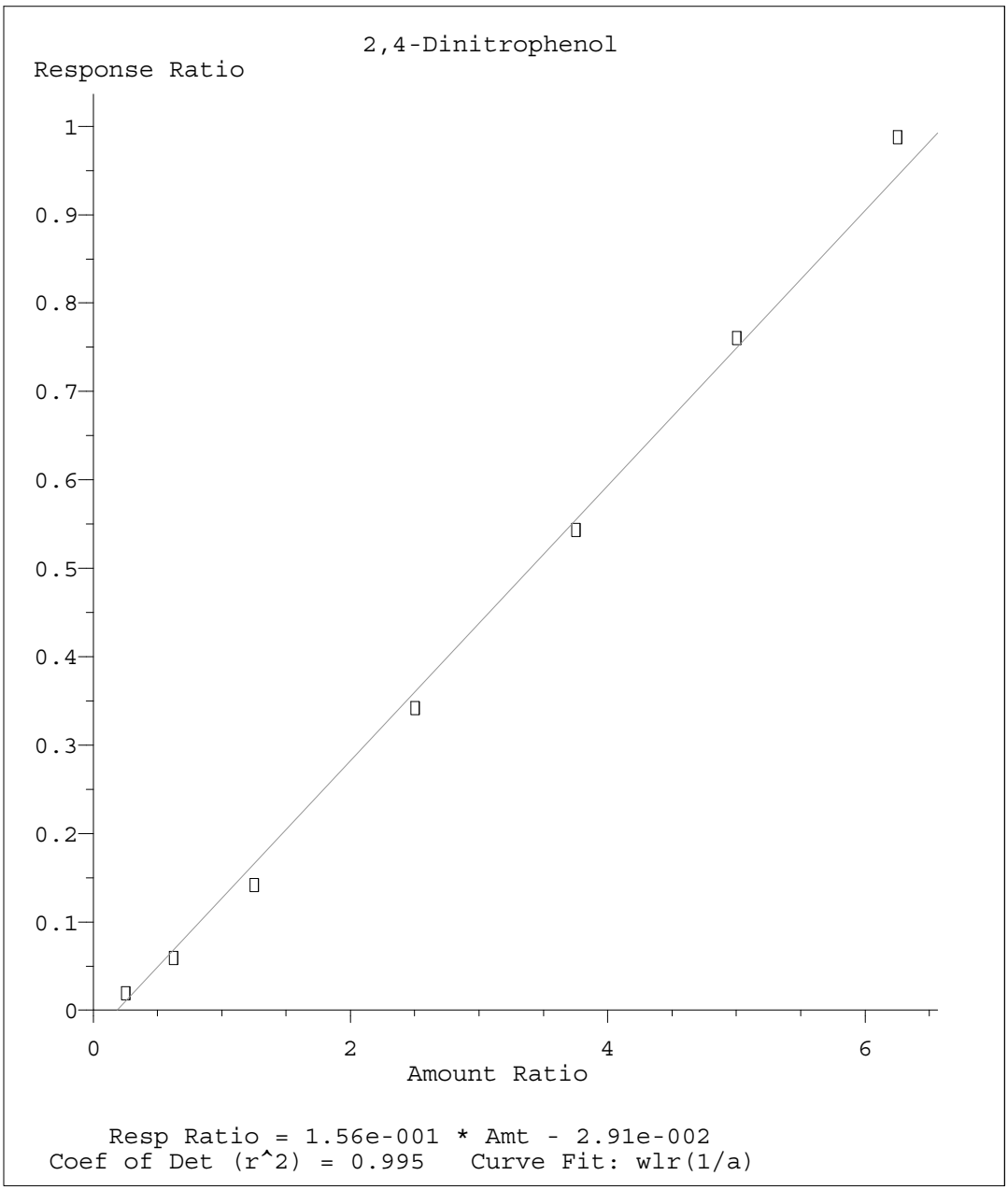
INITIAL CALIBRATION SUMMARY

Instrument ID	:	BNAMS19	Review Method	:	8270D	Released By	:	Chris McCord
Method	:	S819K21N	Review Protocol	:	SW846	Released On	:	11/21/2014 4:43:15 PM

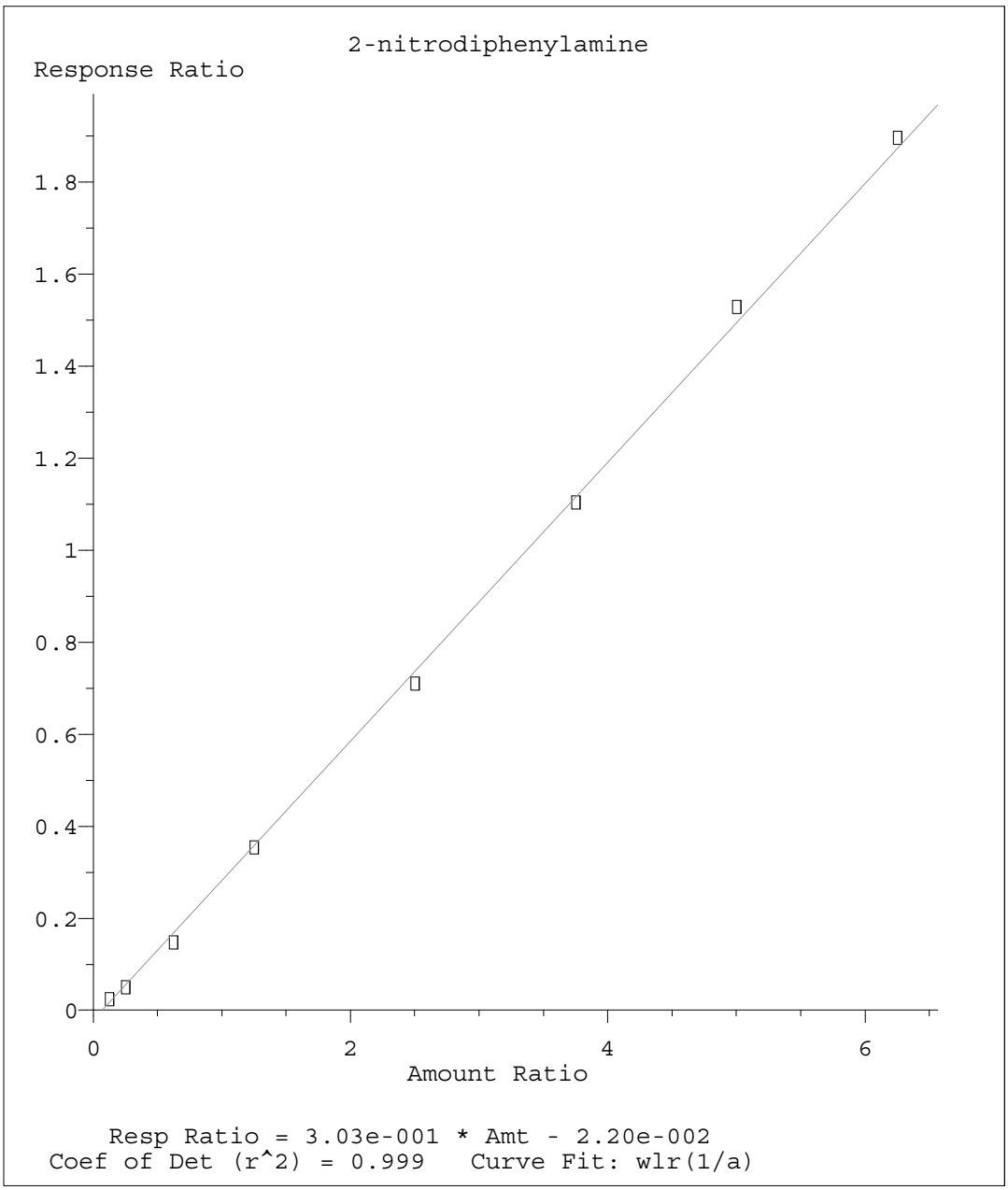
INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- S819K21N -- ICal Updated Time: Fri Nov 21 15:09:20 2014

Parameter	200	1000	2000	5000	10000	20000	30000	40000	50000	.2K1	1K1	2K1	5K1	10K1	20K1	30K1	40K1	50K1	AvgRF	%RSD	COD	Cur	RF
Benzo(b)fluoranthene	0.889	1.159	1.026	1.017	1.017	1.132	1.087	1.114	1.088										1.058676	7.72	0.077	1	0.7
Benzo(k)fluoranthene	0.906	1.062	0.967	0.965	1.041	1.027	1.076	1.025	1.04										1.012071	5.43	0.054	1	0.7
Benzo(a)pyrene	0.82	1.037	0.922	0.937	0.99	1.028	1.027	1.012	1.012										0.976114	7.29	0.073	1	0.7
Indeno(1,2,3-cd)pyrene	0.86	1.14	1.031	1.032	1.077	1.109	1.095	1.089	1.091										1.058202	7.74	0.077	1	0.5
Dibenz(a,h)anthracene	0.735	0.978	0.87	0.878	0.914	0.944	0.936	0.93	0.926										0.90105	7.82	0.078	1	0.4
Benzo(g,h,i)perylene	0.768	0.979	0.877	0.865	0.901	0.922	0.902	0.888	0.874										0.886095	6.33	0.063	1	0.5

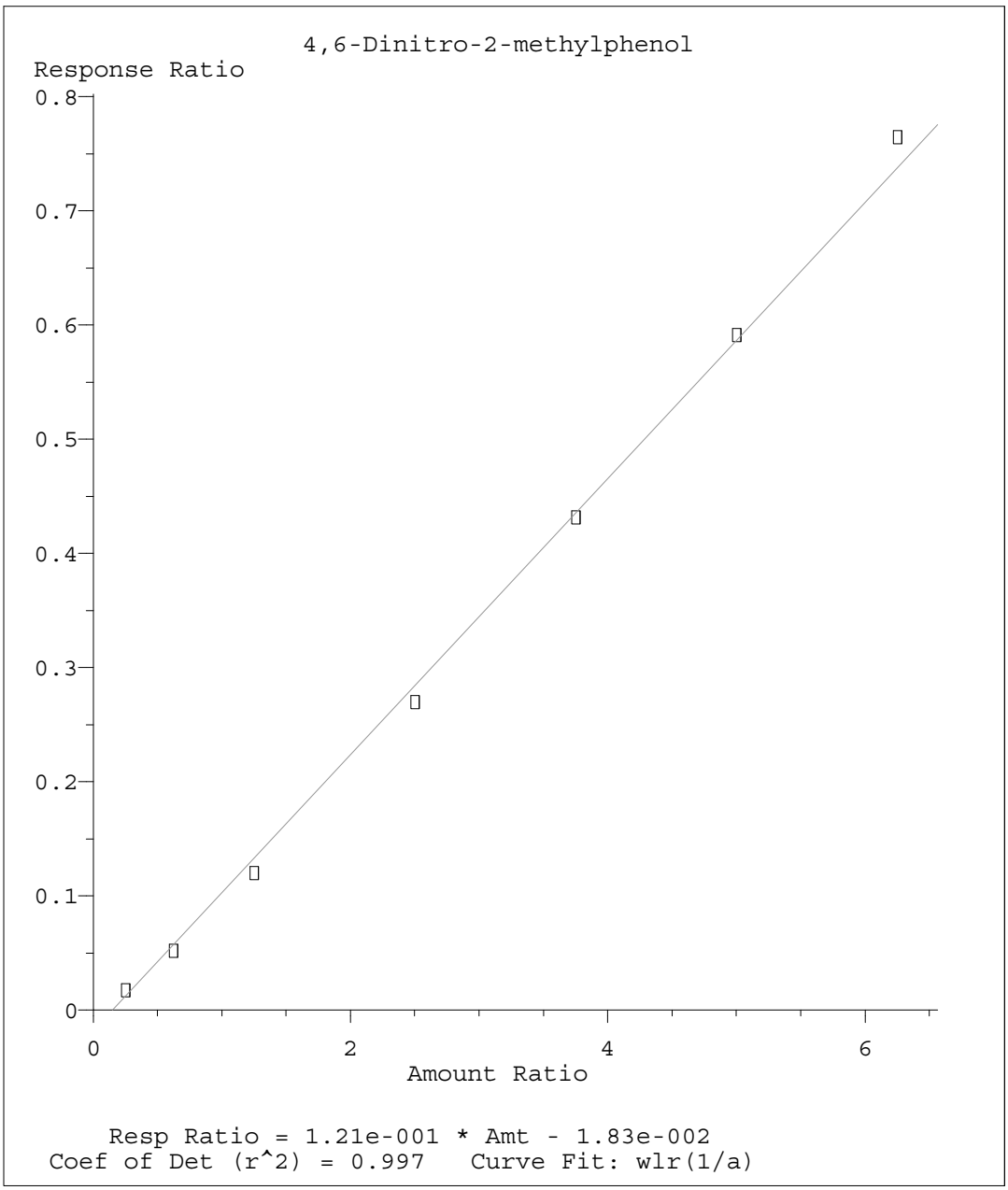
PDF Generated On: 11/21/2014 -- By: Chris McCord



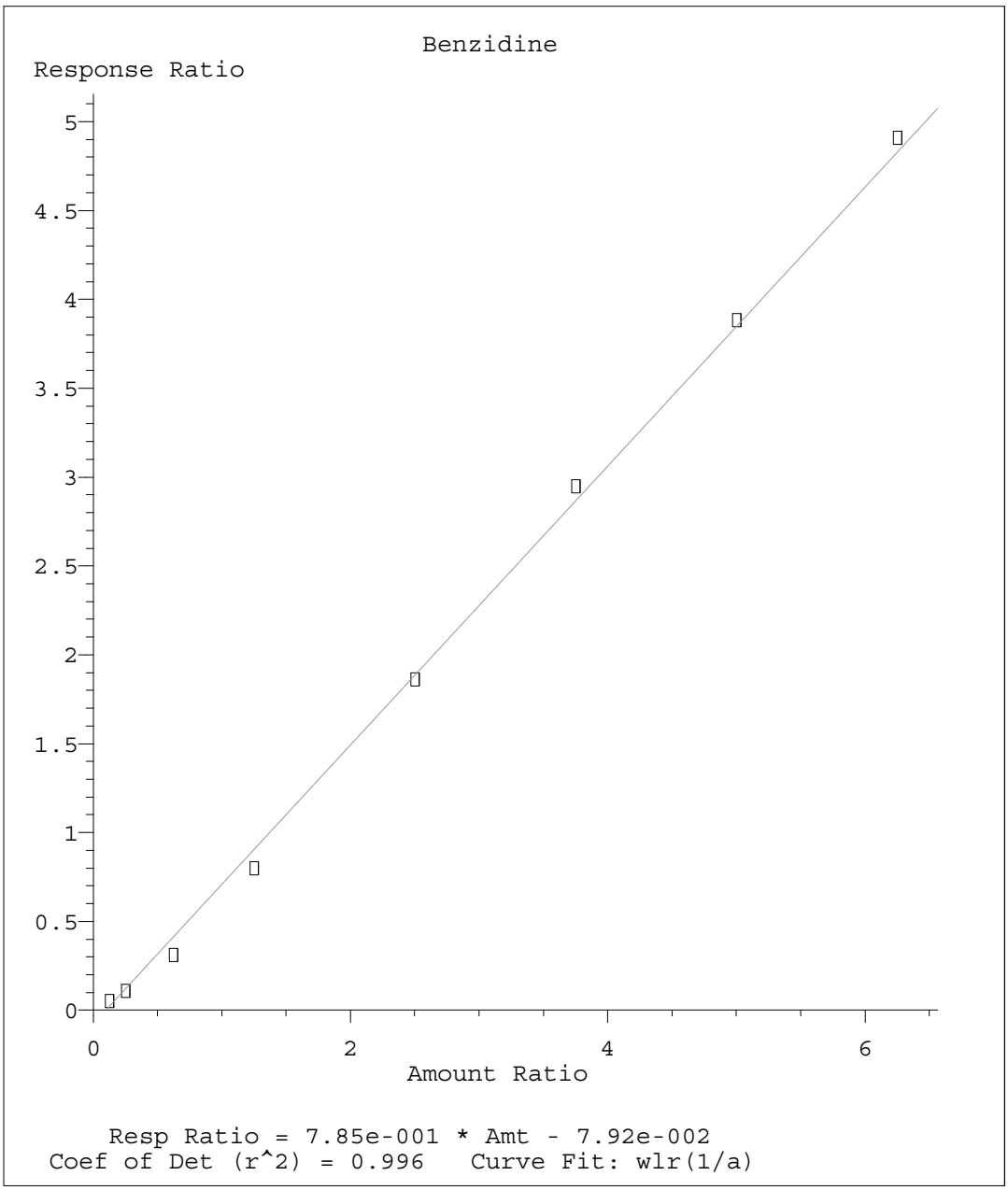
Method Name: C:\msdchem\1\methods\S819K21N.M



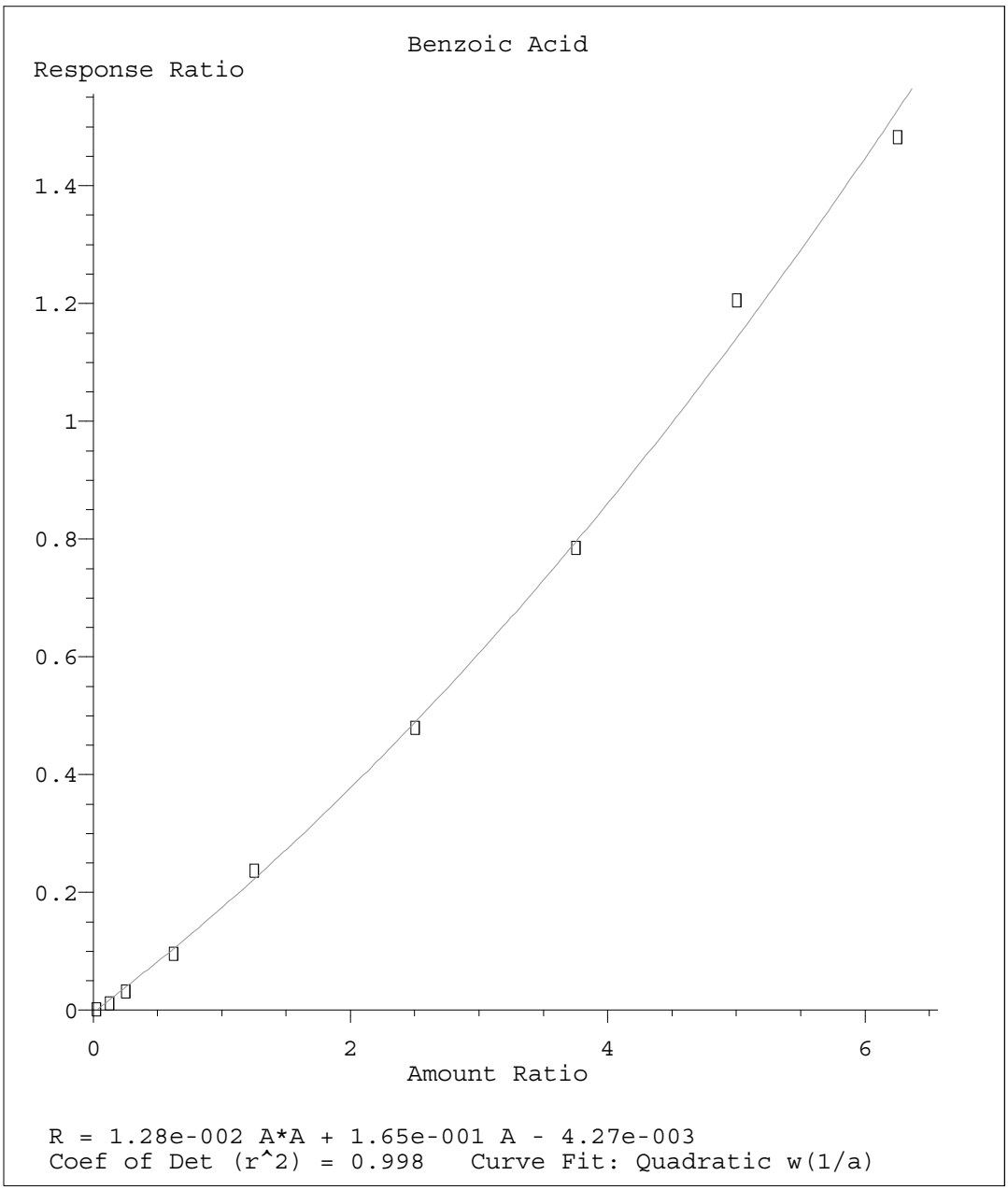
Method Name: C:\msdchem\1\methods\S819K21N.M



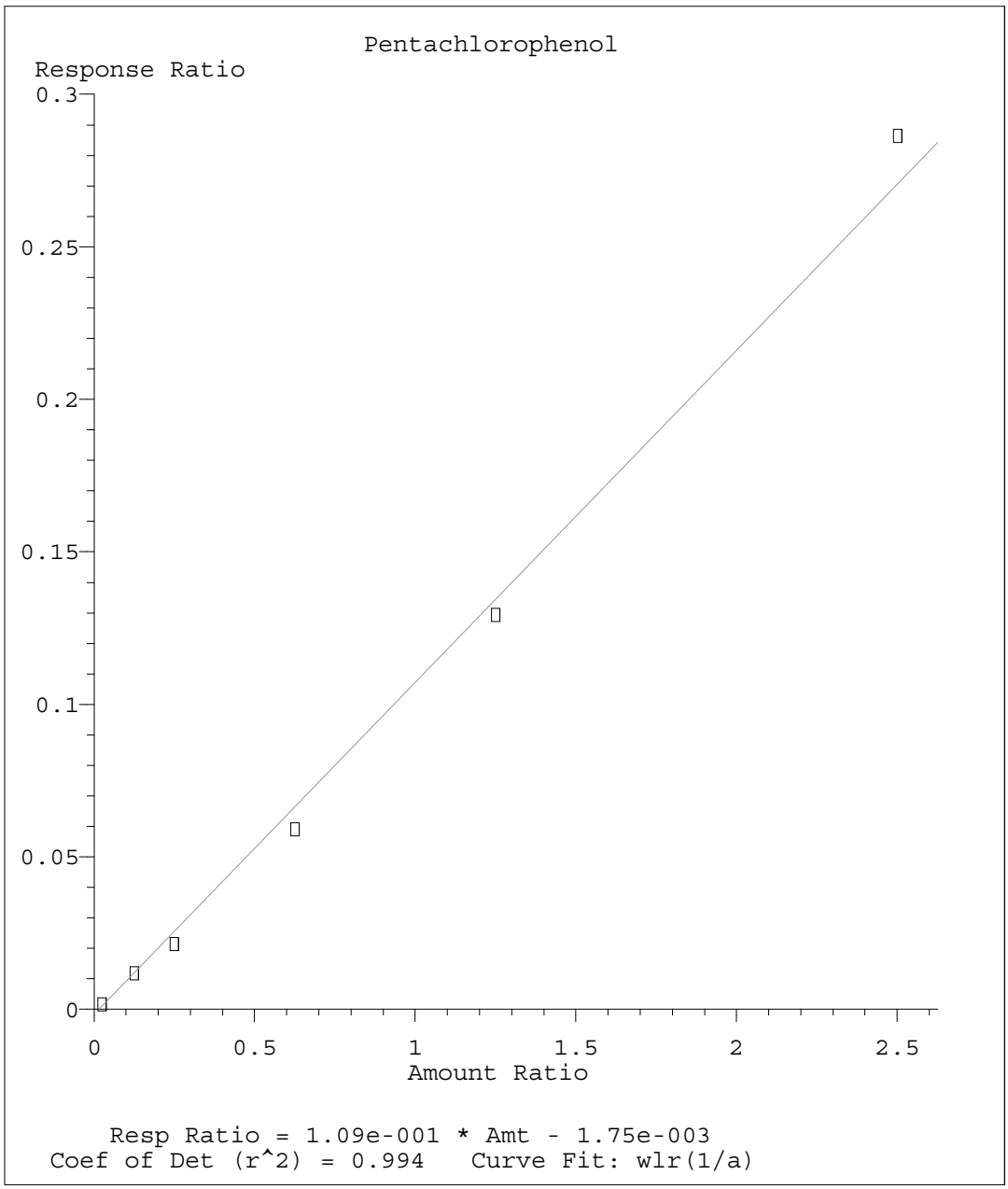
Method Name: C:\msdchem\1\methods\S819K21N.M



Method Name: C:\msdchem\1\methods\S819K21N.M



Method Name: C:\msdchem\1\methods\S819K21N.M



Method Name: C:\msdchem\1\methods\S819K21N.M

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\112014A\
Data File : 1120a 04MRL.D
Acq On : 20 Nov 2014 7:39 pm
Operator : 377
Sample : MRL SVMS 200 PPB 14K07412
Misc : 8270 PRIMARY CALIBRATION
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Nov 21 16:38:14 2014
Quant Method : C:\msdchem\1\methods\S819K21N.M
Quant Title : 8270 BNA
QLast Update : Fri Nov 21 15:09:20 2014
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 1,4-Dichlorobenzene-d4	5.384	152	131937	8000.0000000 ppb	0.00
22) Naphthalene-d8	6.654	136	563771	8000.0000000 ppb	0.00
40) Acenaphthene-d10	8.536	164	348832	8000.0000000 ppb	0.00
64) Phenanthrene-d10	10.160	188	600150	8000.0000000 ppb	0.00
78) Chrysene-d12	13.042	240	593506	8000.0000000 ppb	0.00
88) Perylene-d12	14.883	264	643223	8000.0000000 ppb	0.00
System Monitoring Compounds					
4) 2-Fluorophenol	4.260	112	3742	192.3435724 ppb	0.00
Spiked Amount 20.000	Range 10 - 78		Recovery = 961.72%#		
7) Phenol-d5	4.995	99	4581	180.5280032 ppb	0.00
Spiked Amount 20.000	Range 5 - 70		Recovery = 902.64%#		
23) Nitrobenzene-d5	5.913	82	3943m	174.4239089 ppb	0.00
Spiked Amount 10.000	Range 22 - 123		Recovery = 1744.24%#		
44) 2-Fluorobiphenyl	7.795	172	9480	191.4160470 ppb	0.00
Spiked Amount 10.000	Range 30 - 131		Recovery = 1914.16%#		
67) 2,4,6-Tribromophenol	9.389	330	980	145.8312854 ppb	0.00
Spiked Amount 20.000	Range 11 - 130		Recovery = 729.16%#		
81) p-Terphenyl-d14	11.871	244	10998	182.4076378 ppb	0.00
Spiked Amount 10.000	Range 29 - 137		Recovery = 1824.08%#		
Target Compounds					Qvalue
2) Pyridine	3.331	79	4220	158.0796533 ppb	90
3) N-Nitrosodimethylamine	3.290	74	1901	145.4294050 ppb	91
5) Aniline	5.072	66	2189	179.0981662 ppb #	88
6) bis(2-Chloroethyl)ether	5.119	63	3314	187.6194749 ppb #	85
8) Phenol	5.007	94	4808	184.3791646 ppb	92
9) Benzaldehyde	0.000		0	N.D.	
10) 2-Chlorophenol	5.184	128	4061	178.0406151 ppb	93
11) n-Decane	5.207	55	987m	196.9054503 ppb	
12) 1,3-Dichlorobenzene	5.337	146	4934	193.0873531 ppb	95
13) 1,4-Dichlorobenzene	5.401	146	5041m	193.7632550 ppb	
14) Benzyl Alcohol	5.490	79	3151	174.1755358 ppb	93
15) 1,2-Dichlorobenzene	5.548	146	4675	186.9079681 ppb	98
16) bis(2-Chloroisopropyl)...	5.625	121	1490	197.1646130 ppb	98
17) 2-Methylphenol	5.578	108	3562	174.3734174 ppb	95
18) Hexachloroethane	5.884	117	2171	193.9960015 ppb	95
19) N-Nitrosodi-n-propylamine	5.742	70	2489	177.2441620 ppb	97
20) 3&4-Methyl phenol	5.719	107	4015	178.0139671 ppb	91
21) Acetophenone	0.000		0	N.D. d	
24) Nitrobenzene	5.931	77	4360	188.6737072 ppb	94
25) Isophorone	6.166	82	7054	175.4684434 ppb	99
26) 2-Nitrophenol	6.254	139	1657	140.5240099 ppb	86
27) 2,4-Dimethylphenol	6.266	107	4028	186.3218792 ppb	94
28) bis(2-Chlorethoxy)methane	6.372	93	5198	188.2238678 ppb	98
29) 2,4-Dichlorophenol	6.489	162	3180	174.4151857 ppb	95
30) Benzoic Acid	0.000		0	N.D. d	
31) 1,2,4-Trichlorobenzene	6.589	180	3890	187.1646475 ppb	96
32) Naphthalene	6.678	128	16818	231.7265354 ppb	96
33) 4-Chloroaniline	6.713	65	1620	188.6924905 ppb	93
34) Hexachloro-1,3-butadiene	6.801	225	2170	190.1008864 ppb	93
35) Caprolactam	0.000		0	N.D. d	
36) 4-Chloro-3-methylphenol	7.201	107	3360	174.3352344 ppb	96
37) 2-Methylnaphthalene	7.407	142	9270	190.2485406 ppb	98

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\112014A\
Data File : 1120a 04MRL.D
Acq On : 20 Nov 2014 7:39 pm
Operator : 377
Sample : MRL SVMS 200 PPB 14K07412
Misc : 8270 PRIMARY CALIBRATION
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Nov 21 16:38:14 2014
Quant Method : C:\msdchem\1\methods\S819K21N.M
Quant Title : 8270 BNA
QLast Update : Fri Nov 21 15:09:20 2014
Response via : Initial Calibration

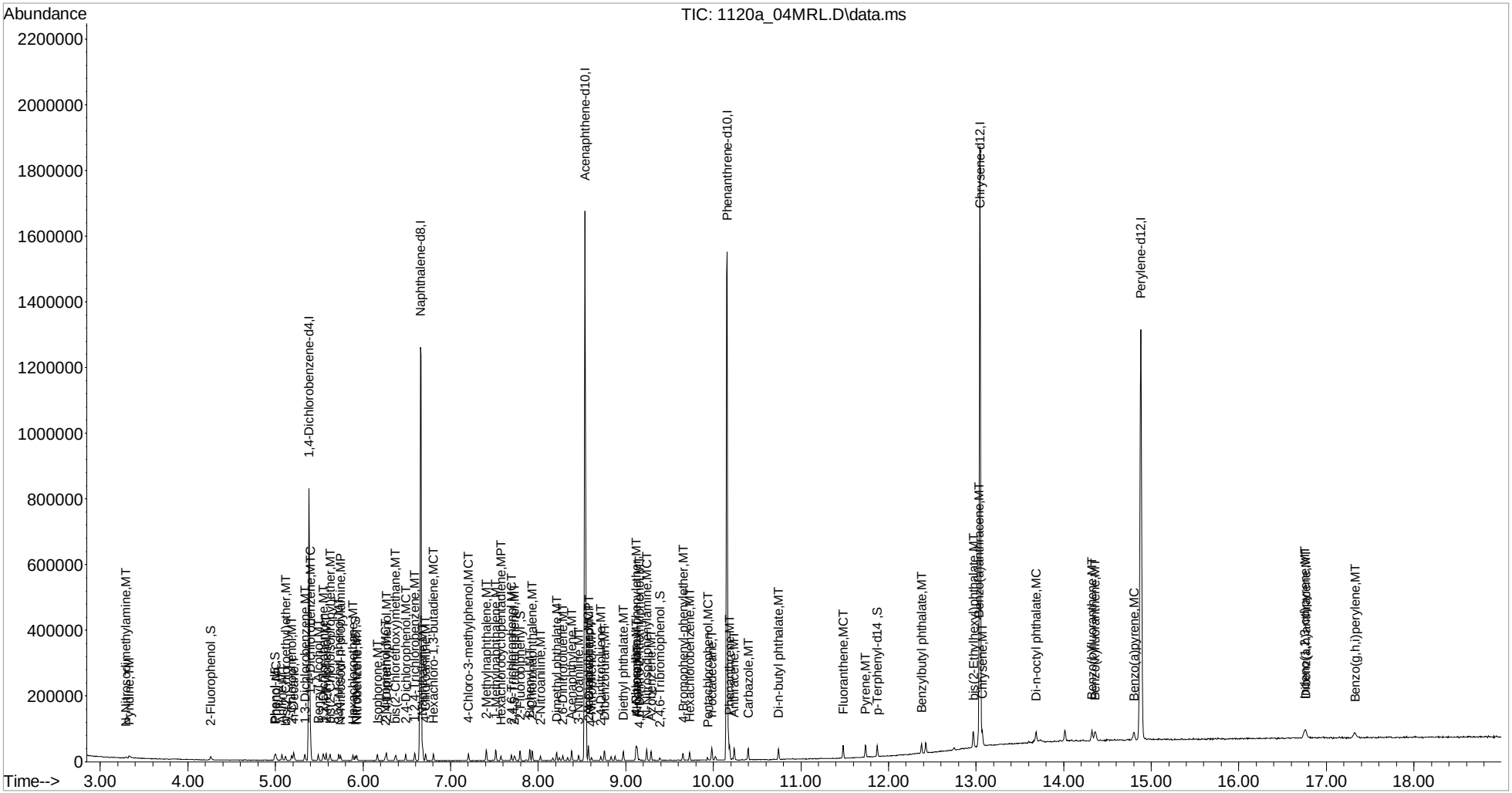
Compound	R.T.	QIon	Response	Conc Units		Dev(Min)
38) 1-Methylnaphthalene	7.513	142	8592	187.6915143 ppb		98
39) 1,2,4,5-Tetrachloroben...	0.000		0	N.D.		
41) Hexachlorocyclopentadiene	7.578	237	2146	180.8901300 ppb		93
42) 2,4,6-Trichlorophenol	7.695	196	2110	169.5780581 ppb		98
43) 2,4,5-Trichlorophenol	7.731	196	2180	161.0112326 ppb		94
45) Biphenyl	7.901	154	11021	194.4829657 ppb		95
46) 2-Chloronaphthalene	7.931	162	8182	186.5983391 ppb		95
47) 2-Nitroaniline	8.025	138	2270	151.8219003 ppb		98
48) Acenaphthylene	8.383	152	12091	174.7804803 ppb		97
49) Dimethyl phthalate	8.213	163	8913	178.6929090 ppb		99
50) 2,6-Dinitrotoluene	8.278	165	1683	142.8107028 ppb		85
51) 3-Nitroaniline	8.460	138	1891	140.1485103 ppb	#	85
52) Acenaphthene	8.572	153	9497	198.4710296 ppb		97
53) 2,4-Dinitrophenol	8.578	184	328	1544.5837921 ppb	#	1
54) Dibenzofuran	8.760	168	11605	184.2325552 ppb		98
55) 2,4-Dinitrotoluene	8.713	165	1862	122.9364052 ppb		88
56) 2,3,4,6-Tetrachlorophenol	0.000		0	N.D. d		
57) 4-Nitrophenol	8.607	139	1302	125.3631466 ppb		90
58) Fluorene	9.130	166	9828	184.9014406 ppb		100
59) 4-Chlorophenyl-phenyle...	9.119	204	4277	179.1040826 ppb		97
60) Diethyl phthalate	8.972	149	10183	191.7546927 ppb		99
61) 4-Nitroaniline	9.119	138	1972	160.8911411 ppb		98
62) Azobenzene	9.289	77	9353	169.8784406 ppb		94
63) Atrazine	0.000		0	N.D.		
65) 4,6-Dinitro-2-methylph...	9.154	198	574	1271.3082023 ppb	#	36
66) N-Nitrosodiphenylamine	9.236	169	7790	179.1806272 ppb		97
68) 4-Bromophenyl-phenylether	9.654	248	2626	190.9301096 ppb		89
69) Hexachlorobenzene	9.730	284	3209	206.9967687 ppb		87
70) n-octadecane	9.983	55	1932	196.8505935 ppb		93
71) Pentachlorophenol	9.936	266	994	250.3391898 ppb		87
72) Phenanthrene	10.183	178	15567	198.6935386 ppb		99
73) Anthracene	10.236	178	14670	186.5060039 ppb		98
74) Carbazole	10.401	167	12920	183.6391726 ppb		99
75) Di-n-butyl phthalate	10.742	149	15869	170.6781744 ppb		99
76) 2-nitrodiphenylamine	0.000		0	N.D.		
77) Fluoranthene	11.483	202	14800	178.5391651 ppb		96
79) Benzidine	0.000		0	N.D. d		
80) Pyrene	11.736	202	15597	182.2995023 ppb		98
82) Benzylbutyl phthalate	12.377	149	7043	165.6699304 ppb		98
83) 3,3-Dichlorobenzidine	0.000		0	N.D.		
84) Benzo(a)anthracene	13.030	228	16230	196.1013045 ppb		94
85) Chrysene	13.071	228	14479	189.3802937 ppb		99
86) bis(2-Ethylhexyl)phtha...	12.971	149	14971m	225.7709244 ppb		
87) Di-n-octyl phthalate	13.689	149	14813m	142.9302750 ppb		
89) Benzo(b)fluoranthene	14.324	252	14295	167.9381391 ppb		98
90) Benzo(k)fluoranthene	14.360	252	14568	179.0264704 ppb		98
91) Benzo(a)pyrene	14.801	252	13191	168.0760177 ppb		95
92) Indeno(1,2,3-cd)pyrene	16.753	276	13829	162.5364022 ppb		96
93) Dibenz(a,h)anthracene	16.765	278	11817	163.1123659 ppb		96
94) Benzo(g,h,i)perylene	17.330	276	12347	173.3044929 ppb		97

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\112014A\
Data File : 1120a 04MRL.D
Acq On : 20 Nov 2014 7:39 pm
Operator : 377
Sample : MRL SVMS 200 PPB 14K07412
Misc : 8270 PRIMARY CALIBRATION
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Nov 21 16:38:14 2014
Quant Method : C:\msdchem\1\methods\S819K21N.M
Quant Title : 8270 BNA
QLast Update : Fri Nov 21 15:09:20 2014
Response via : Initial Calibration

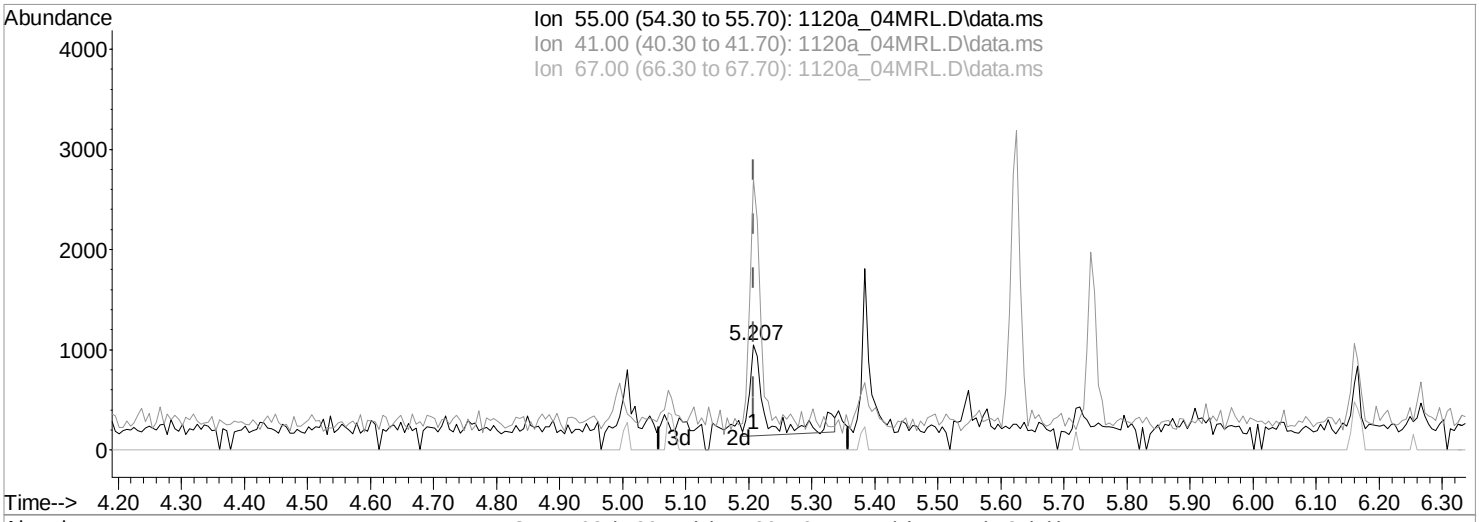


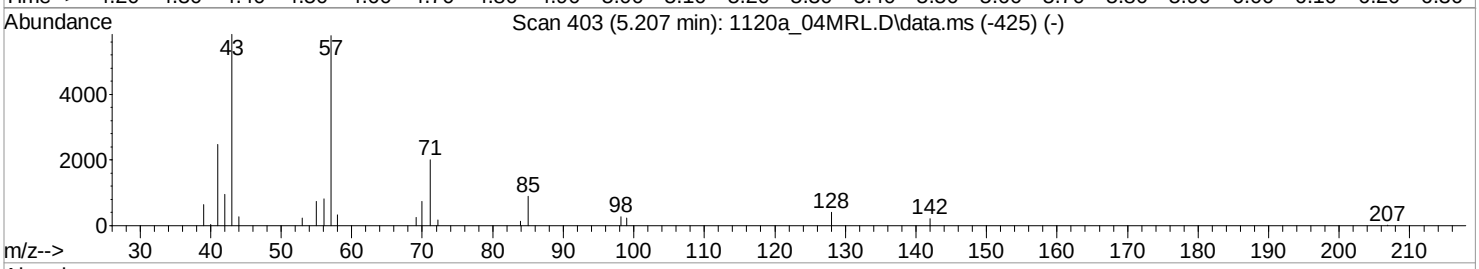
PDF Generated On: 11/21/2014 -- By: Chris McCord

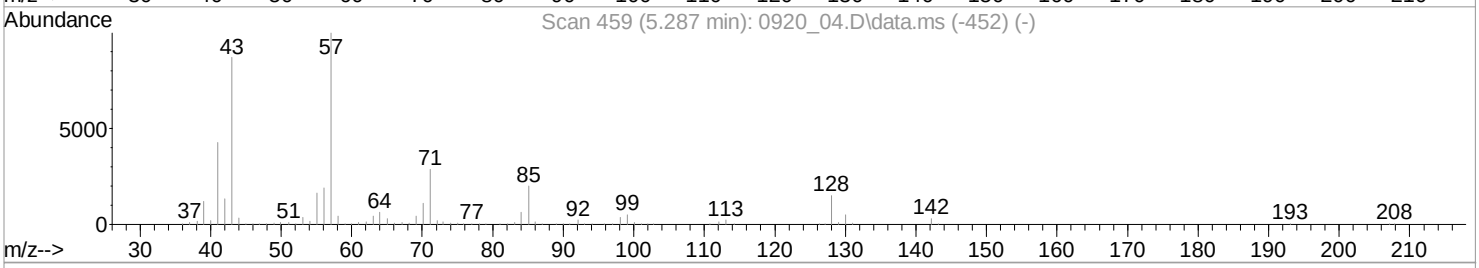
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\112014A\
Data File : 1120a 04MRL.D
Acq On : 20 Nov 2014 7:39 pm
Operator : 377
Sample : MRL SVMS 200 PPB 14K07412
Misc : 8270 PRIMARY CALIBRATION
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Nov 21 15:40:39 2014
Quant Method : C:\msdchem\1\methods\S819K21N.M
Quant Title : 8270 BNA
QLast Update : Fri Nov 21 15:09:20 2014
Response via : Initial Calibration







TIC: 1120a_04MRL.D\data.ms

(11) n-Decane (T)

5.207min (-0.000) 312.6148335 ppb

Qvalue = 93

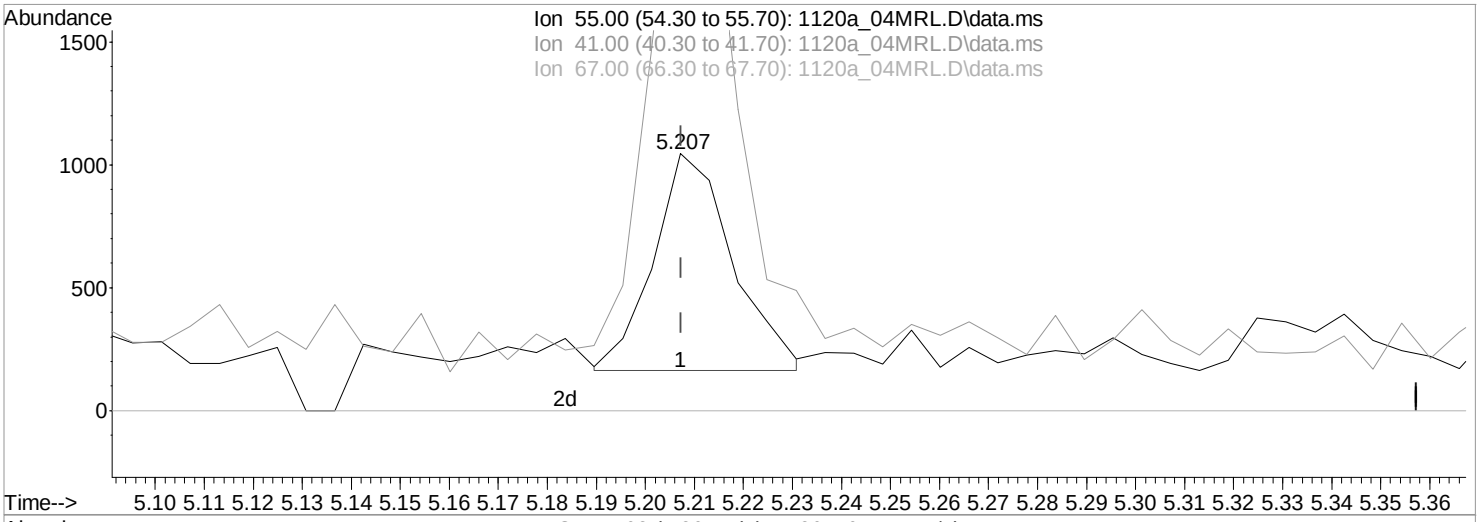
response 1567

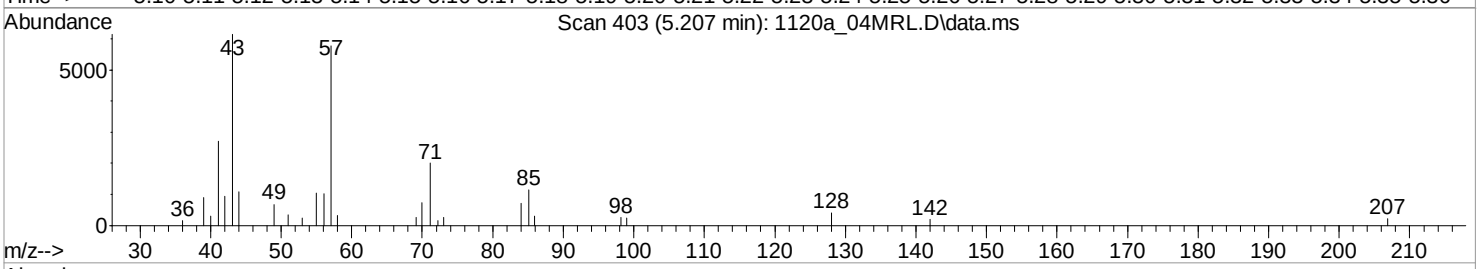
Ion	Exp%	Act%
55.00	100	100
41.00	297.10	284.08
67.00	4.70	0.00
0.00	0.00	0.00

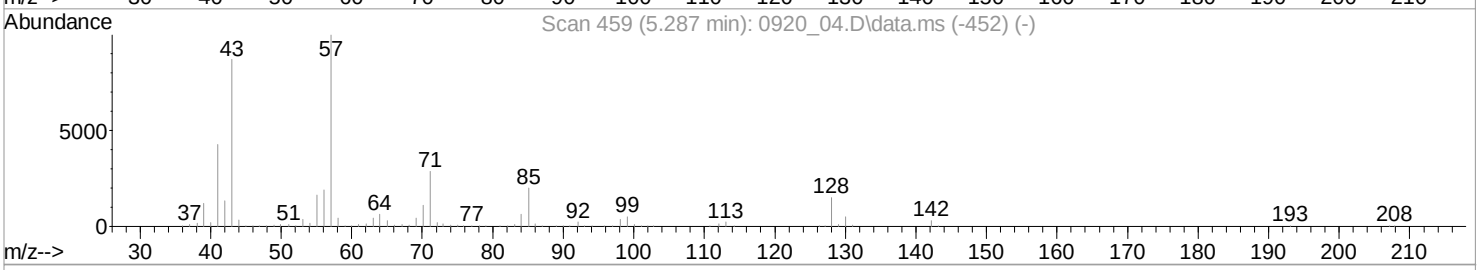
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\112014A\
Data File : 1120a 04MRL.D
Acq On : 20 Nov 2014 7:39 pm
Operator : 377
Sample : MRL SVMS 200 PPB 14K07412
Misc : 8270 PRIMARY CALIBRATION
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Nov 21 15:40:39 2014
Quant Method : C:\msdchem\1\methods\S819K21N.M
Quant Title : 8270 BNA
QLast Update : Fri Nov 21 15:09:20 2014
Response via : Initial Calibration







TIC: 1120a_04MRL.D\data.ms

(11) n-Decane (T)

5.207min (-0.000) 196.9054503 ppb m

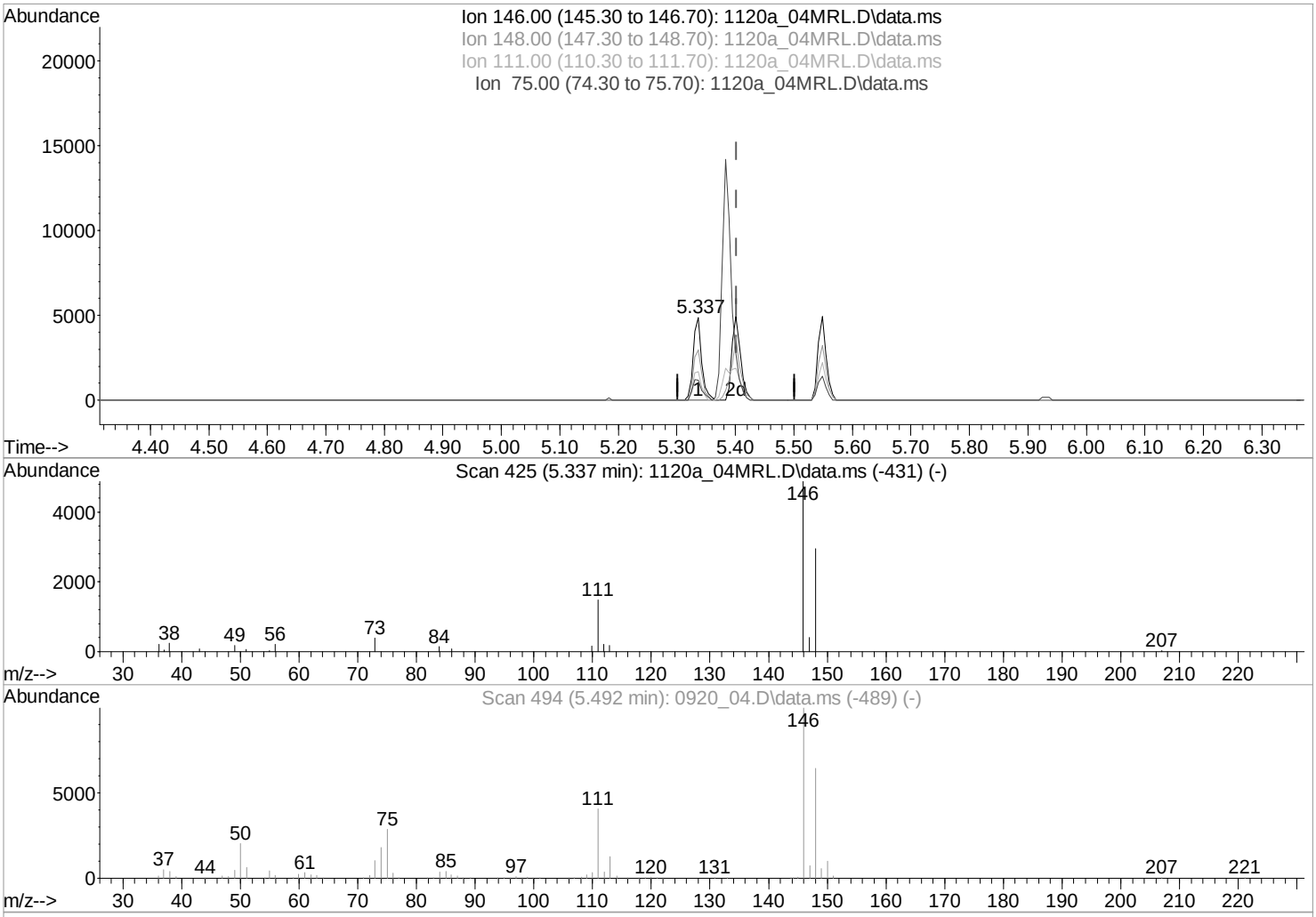
response 987

Ion	Exp%	Act%
55.00	100	100
41.00	297.10	258.32#
67.00	4.70	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\112014A\
Data File : 1120a 04MRL.D
Acq On : 20 Nov 2014 7:39 pm
Operator : 377
Sample : MRL SVMS 200 PPB 14K07412
Misc : 8270 PRIMARY CALIBRATION
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Nov 21 15:40:39 2014
Quant Method : C:\msdchem\1\methods\S819K21N.M
Quant Title : 8270 BNA
QLast Update : Fri Nov 21 15:09:20 2014
Response via : Initial Calibration



(13) 1,4-Dichlorobenzene (MTC)

5.337min (-0.065) 189.6504464 ppb

Qvalue = 94

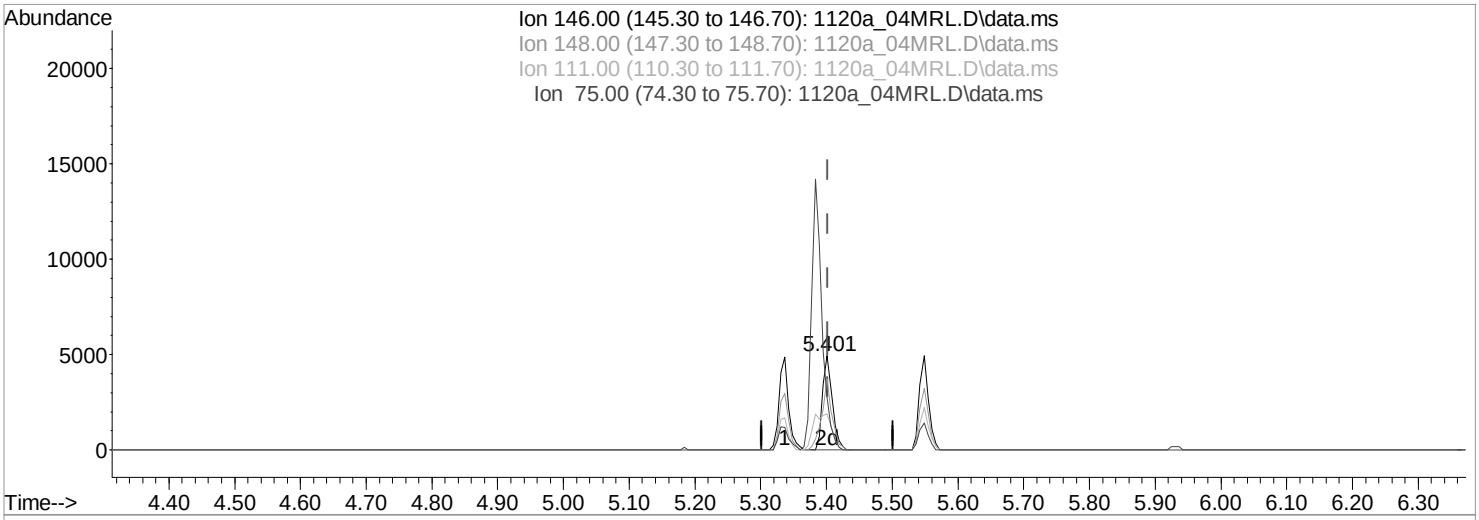
response 4934

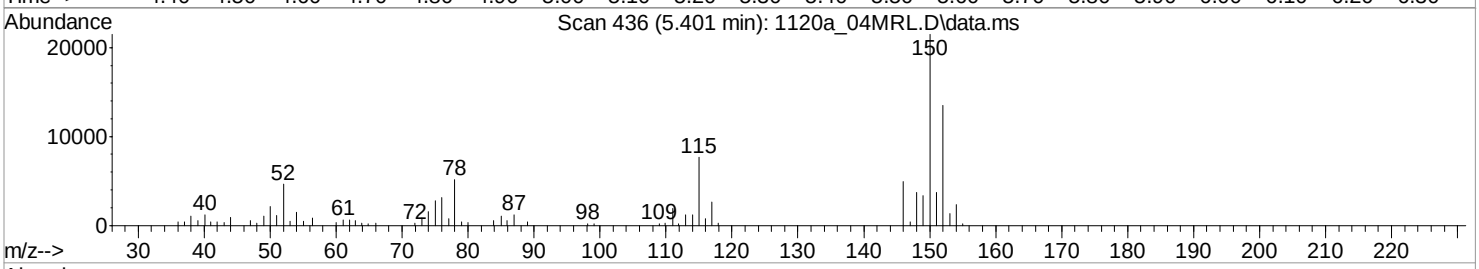
Ion	Exp%	Act%
146.00	100	100
148.00	63.80	60.32
111.00	39.00	34.51
75.00	28.30	23.93

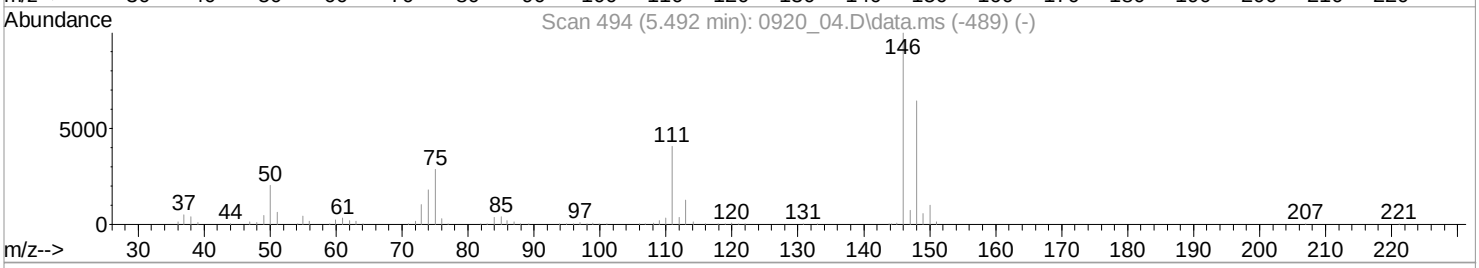
Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\data\112014A\
Data File : 1120a 04MRL.D
Acq On    : 20 Nov 2014   7:39 pm
Operator  : 377
Sample    : MRL SVMS 200 PPB 14K07412
Misc      : 8270 PRIMARY CALIBRATION
ALS Vial  : 4   Sample Multiplier: 1

Quant Time: Nov 21 15:40:39 2014
Quant Method : C:\msdchem\1\methods\S819K21N.M
Quant Title  : 8270 BNA
QLast Update : Fri Nov 21 15:09:20 2014
Response via : Initial Calibration
```







TIC: 1120a_04MRL.D\data.ms

(13) 1,4-Dichlorobenzene (MTC)

5.401min (-0.000) 193.7632550 ppb m

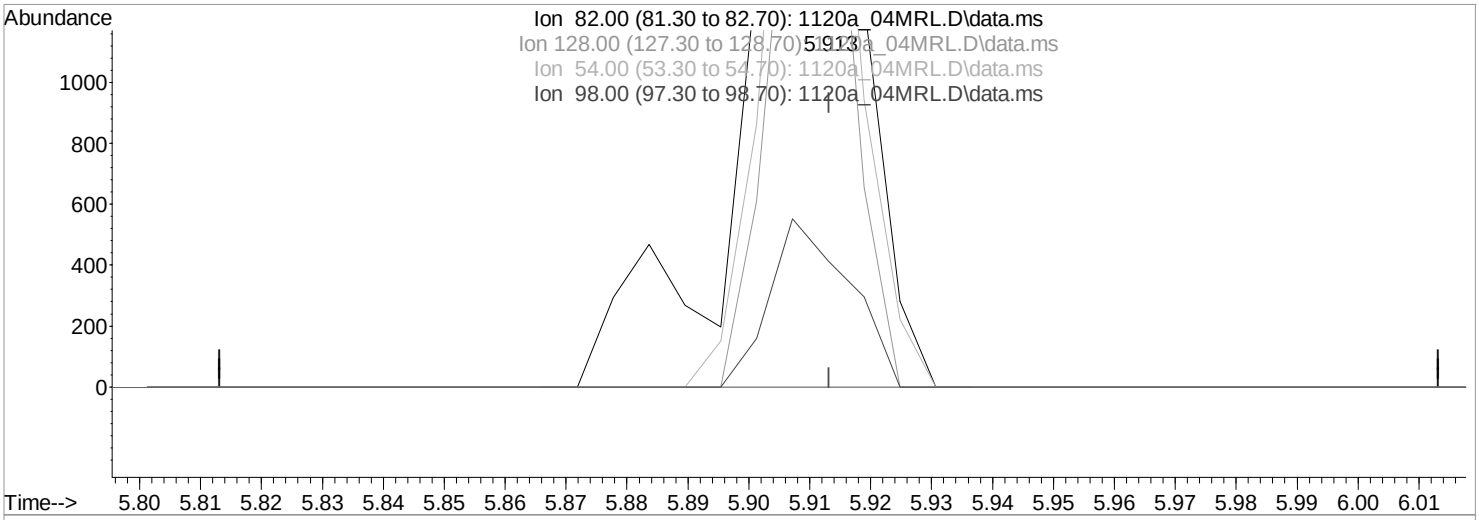
response 5041

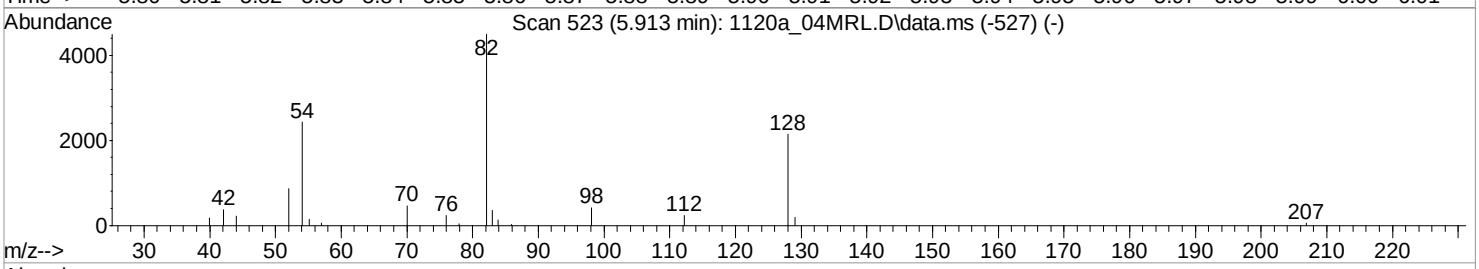
Ion	Exp%	Act%
146.00	100	100
148.00	63.80	75.49
111.00	39.00	38.51
75.00	28.30	55.84#

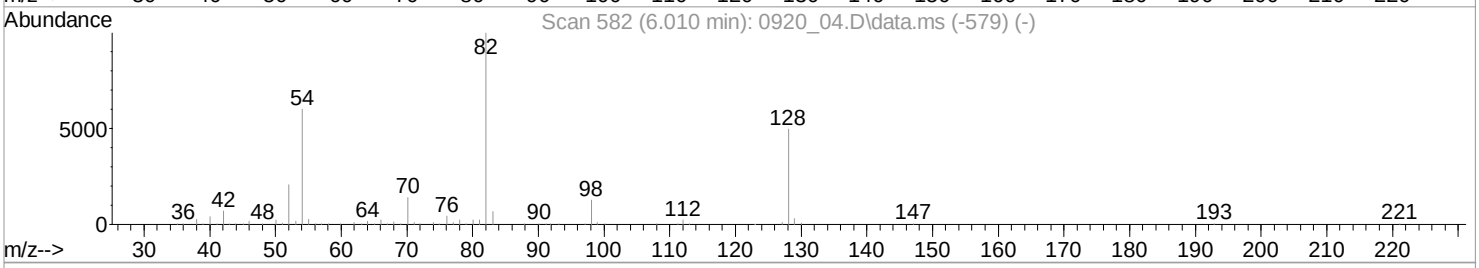
Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\data\112014A\
Data File : 1120a 04MRL.D
Acq On    : 20 Nov 2014   7:39 pm
Operator  : 377
Sample    : MRL SVMS 200 PPB 14K07412
Misc      : 8270 PRIMARY CALIBRATION
ALS Vial  : 4   Sample Multiplier: 1

Quant Time: Nov 21 15:40:39 2014
Quant Method : C:\msdchem\1\methods\S819K21N.M
Quant Title  : 8270 BNA
QLast Update : Fri Nov 21 15:09:20 2014
Response via : Initial Calibration
```







TIC: 1120a_04MRL.D\data.ms

(23) Nitrobenzene-d5 (S)

5.913min (-0.000) 193.6224827 ppb

Qvalue = 96

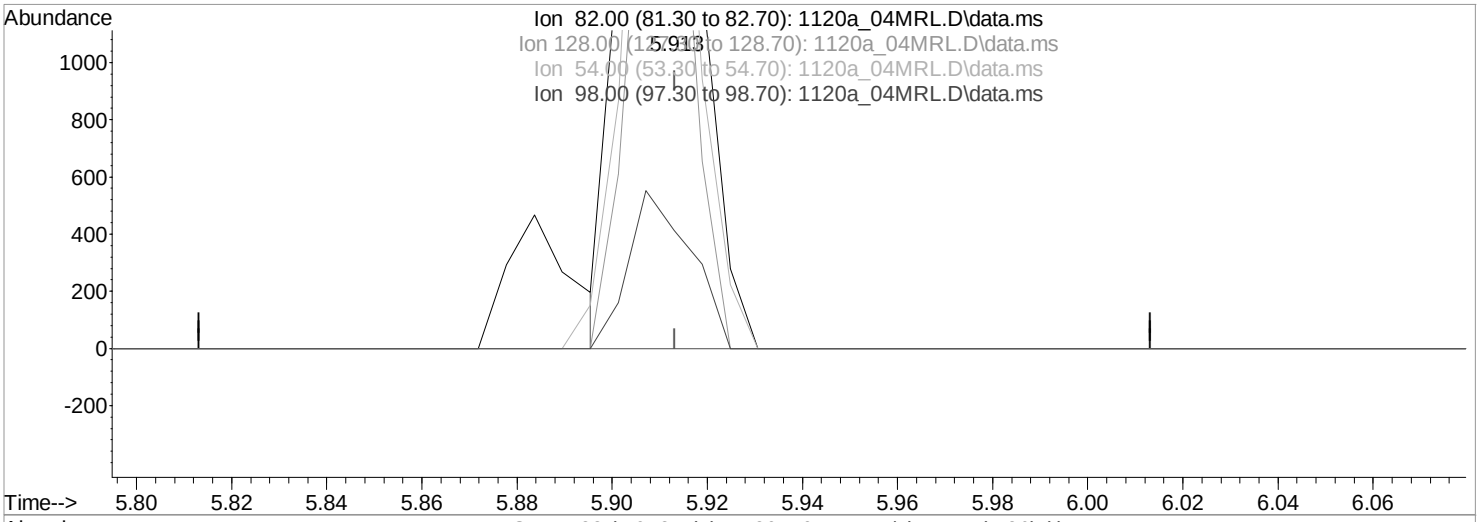
response 4377

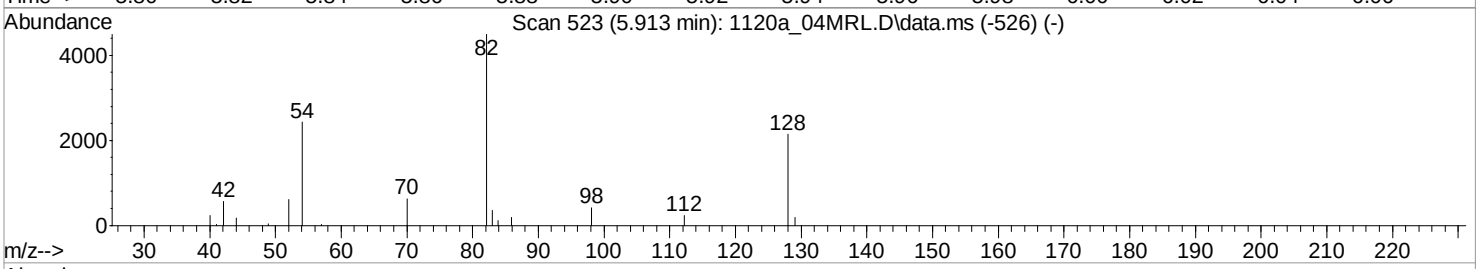
Ion	Exp%	Act%
82.00	100	100
128.00	49.50	47.68
54.00	57.40	54.12
98.00	11.70	9.19

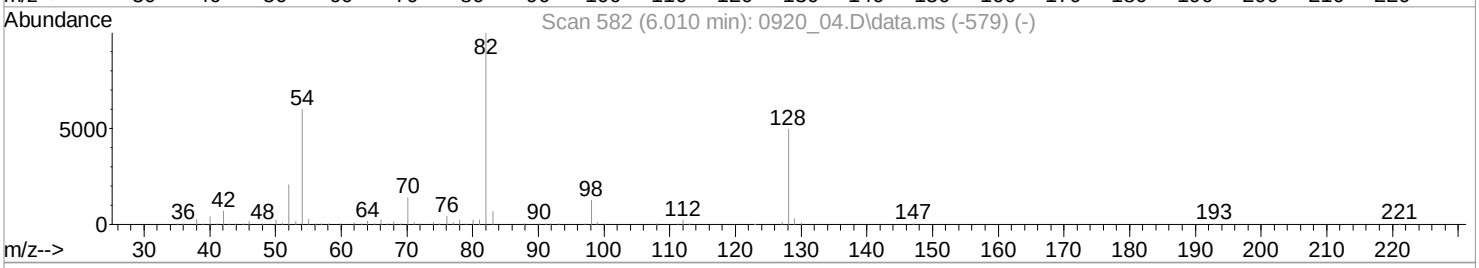
Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\data\112014A\
Data File : 1120a 04MRL.D
Acq On    : 20 Nov 2014   7:39 pm
Operator  : 377
Sample    : MRL SVMS 200 PPB 14K07412
Misc      : 8270 PRIMARY CALIBRATION
ALS Vial  : 4   Sample Multiplier: 1

Quant Time: Nov 21 15:40:39 2014
Quant Method : C:\msdchem\1\methods\S819K21N.M
Quant Title  : 8270 BNA
QLast Update : Fri Nov 21 15:09:20 2014
Response via : Initial Calibration
```







TIC: 1120a_04MRL.D\data.ms

(23) Nitrobenzene-d5 (S)

5.913min (-0.000) 174.4239089 ppb m

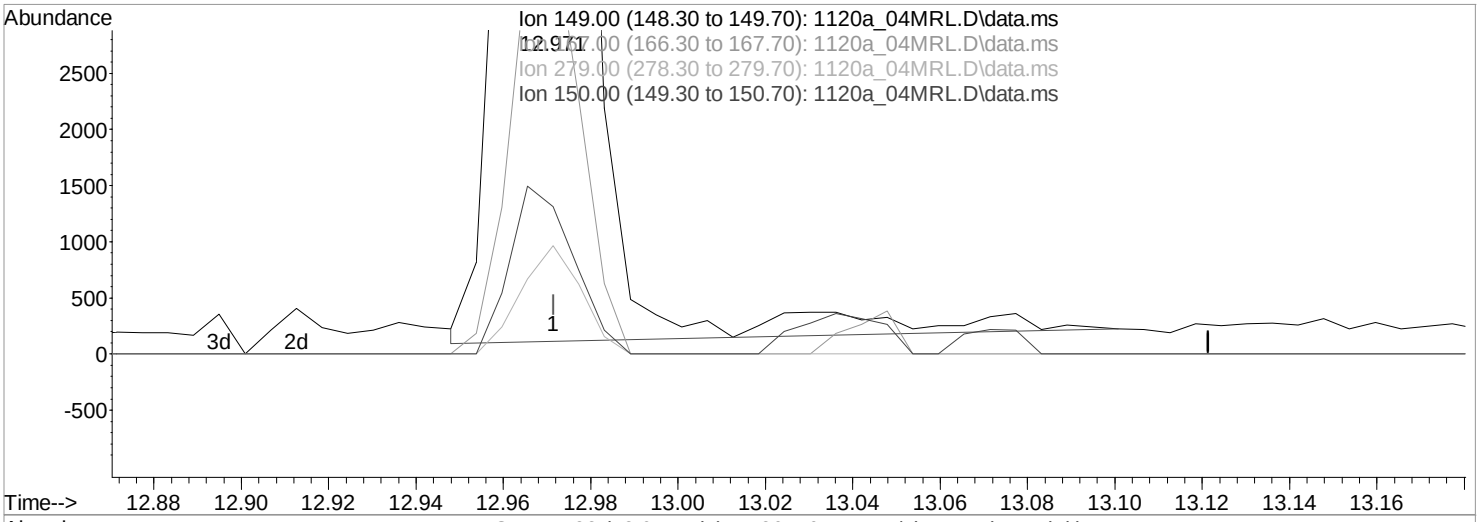
response 3943

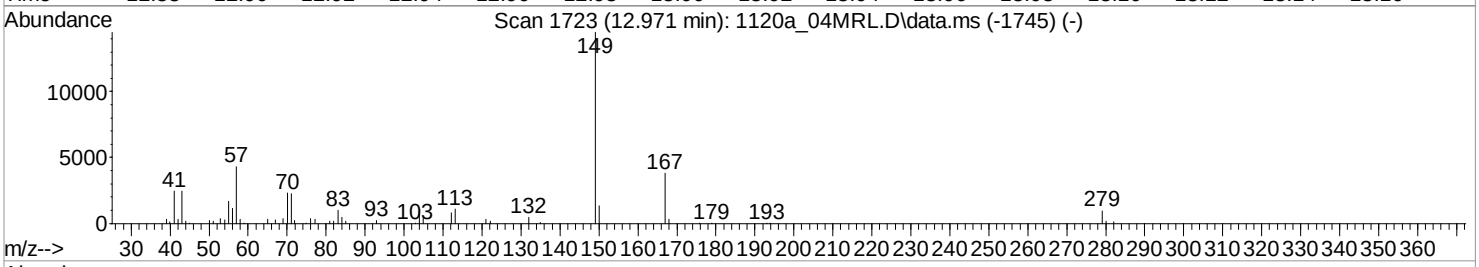
Ion	Exp%	Act%
82.00	100	100
128.00	49.50	47.68
54.00	57.40	54.12
98.00	11.70	9.19

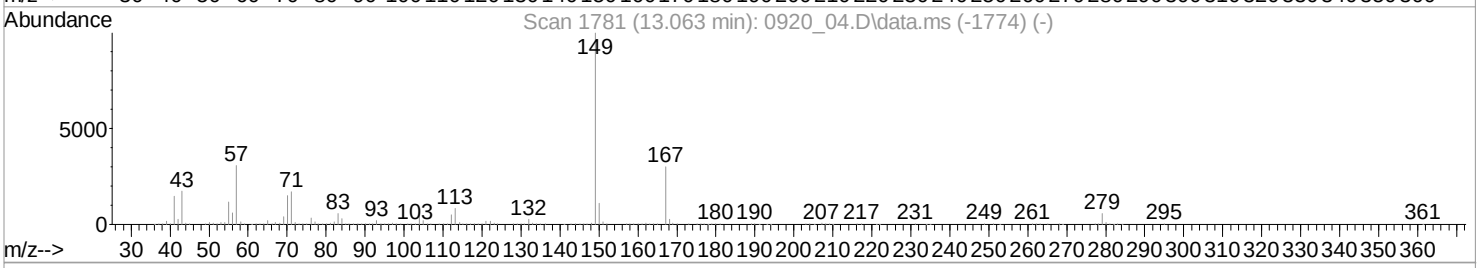
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\112014A\
Data File : 1120a 04MRL.D
Acq On : 20 Nov 2014 7:39 pm
Operator : 377
Sample : MRL SVMS 200 PPB 14K07412
Misc : 8270 PRIMARY CALIBRATION
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Nov 21 15:40:39 2014
Quant Method : C:\msdchem\1\methods\S819K21N.M
Quant Title : 8270 BNA
QLast Update : Fri Nov 21 15:09:20 2014
Response via : Initial Calibration







TIC: 1120a_04MRL.D\data.ms

(86) bis(2-Ethylhexyl)phthalate (MT)

12.971min (-0.000) 238.7251174 ppb

Qvalue = 94

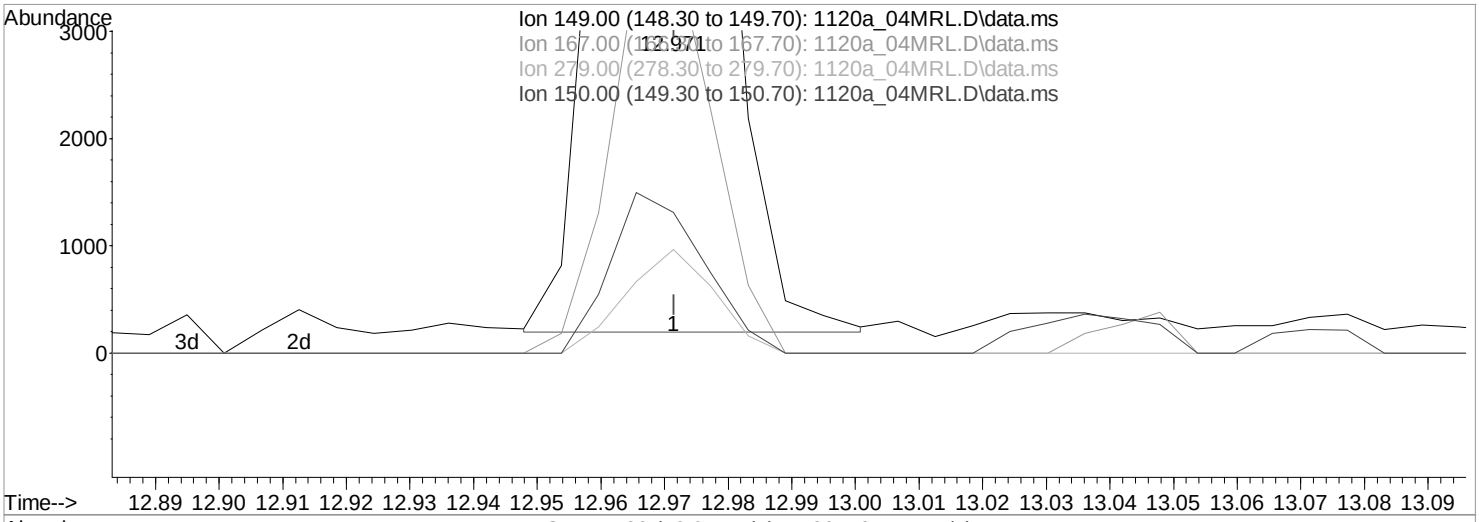
response 15830

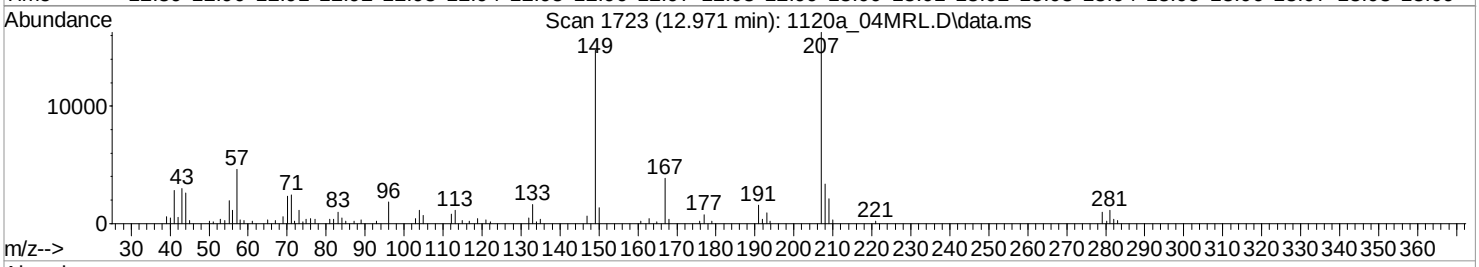
Ion	Exp%	Act%
149.00	100	100
167.00	29.60	26.33
279.00	6.10	6.66
150.00	11.40	9.05

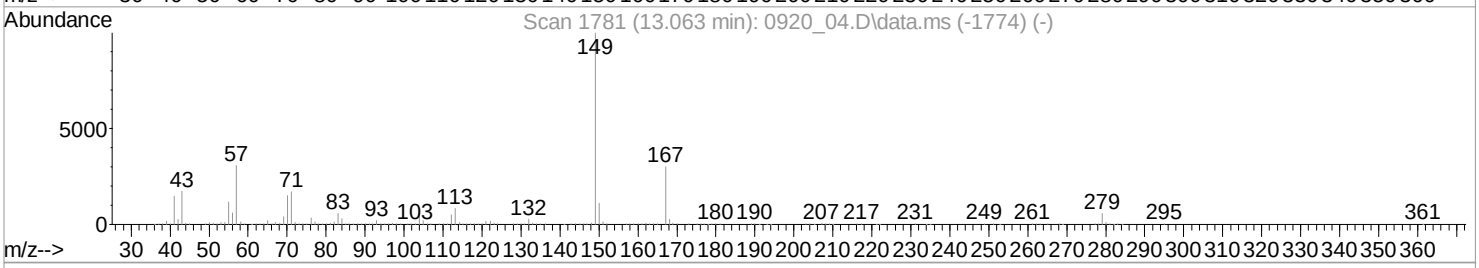
Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\data\112014A\
Data File : 1120a 04MRL.D
Acq On    : 20 Nov 2014   7:39 pm
Operator  : 377
Sample    : MRL SVMS 200 PPB 14K07412
Misc      : 8270 PRIMARY CALIBRATION
ALS Vial  : 4   Sample Multiplier: 1

Quant Time: Nov 21 15:40:39 2014
Quant Method : C:\msdchem\1\methods\S819K21N.M
Quant Title  : 8270 BNA
QLast Update : Fri Nov 21 15:09:20 2014
Response via : Initial Calibration
```







TIC: 1120a_04MRL.D\data.ms

(86) bis(2-Ethylhexyl)phthalate (MT)

12.971min (-0.000) 225.7709244 ppb m

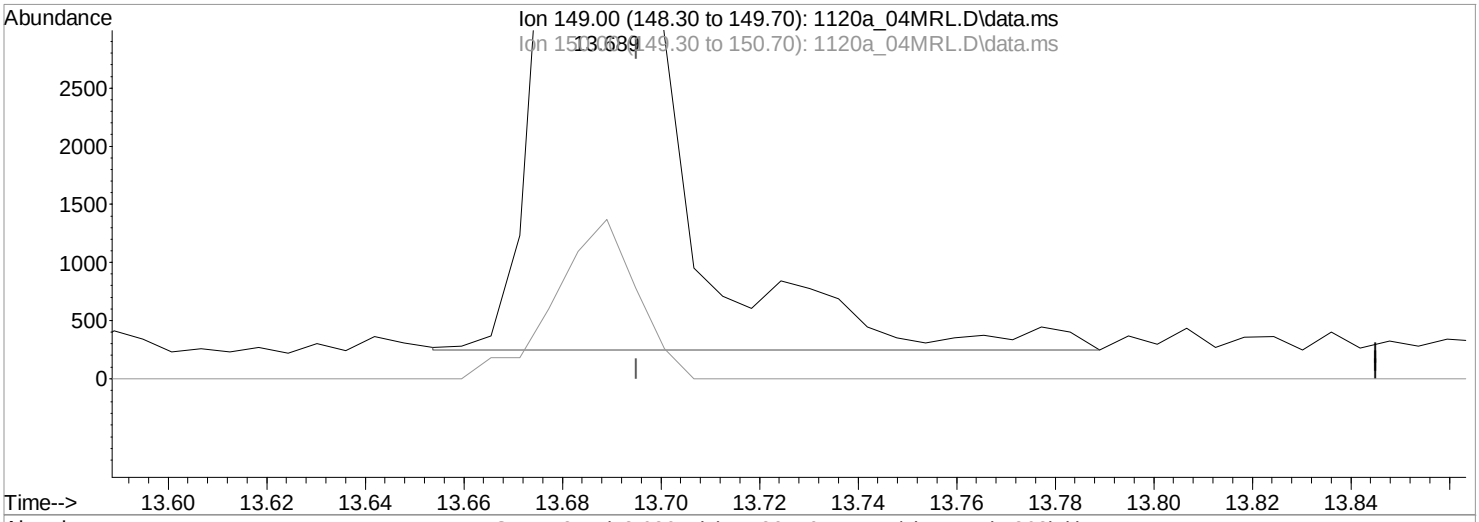
response 14971

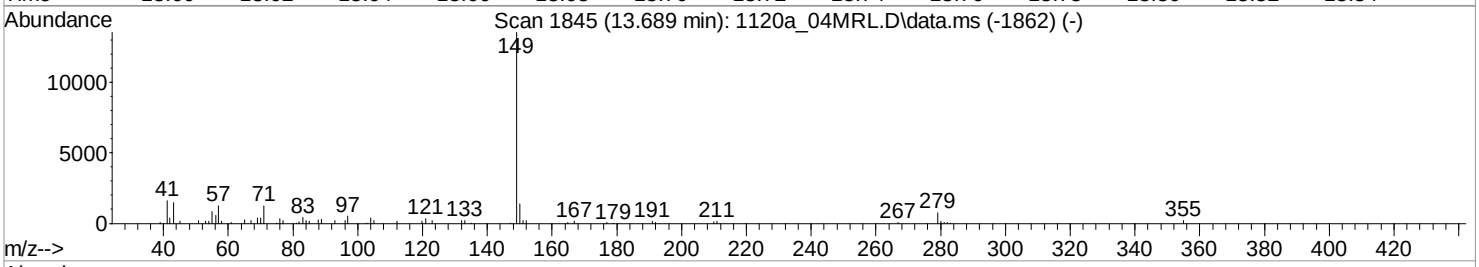
Ion	Exp%	Act%
149.00	100	100
167.00	29.60	25.93
279.00	6.10	6.56
150.00	11.40	8.91

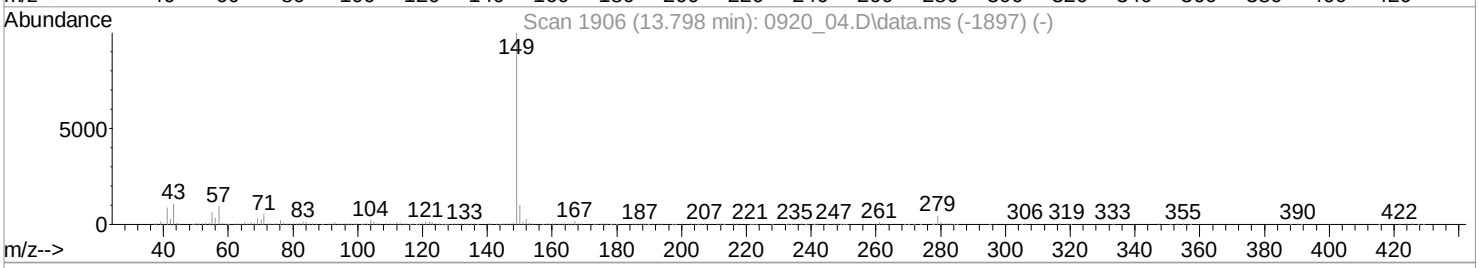
Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\data\112014A\
Data File : 1120a 04MRL.D
Acq On    : 20 Nov 2014   7:39 pm
Operator  : 377
Sample    : MRL SVMS 200 PPB 14K07412
Misc      : 8270 PRIMARY CALIBRATION
ALS Vial  : 4   Sample Multiplier: 1

Quant Time: Nov 21 15:40:39 2014
Quant Method : C:\msdchem\1\methods\S819K21N.M
Quant Title  : 8270 BNA
QLast Update : Fri Nov 21 15:09:20 2014
Response via : Initial Calibration
```







TIC: 1120a_04MRL.D\data.ms

(87) Di-n-octyl phthalate (MC)

13.689min (-0.006) 152.5310056 ppb

Qvalue = 99

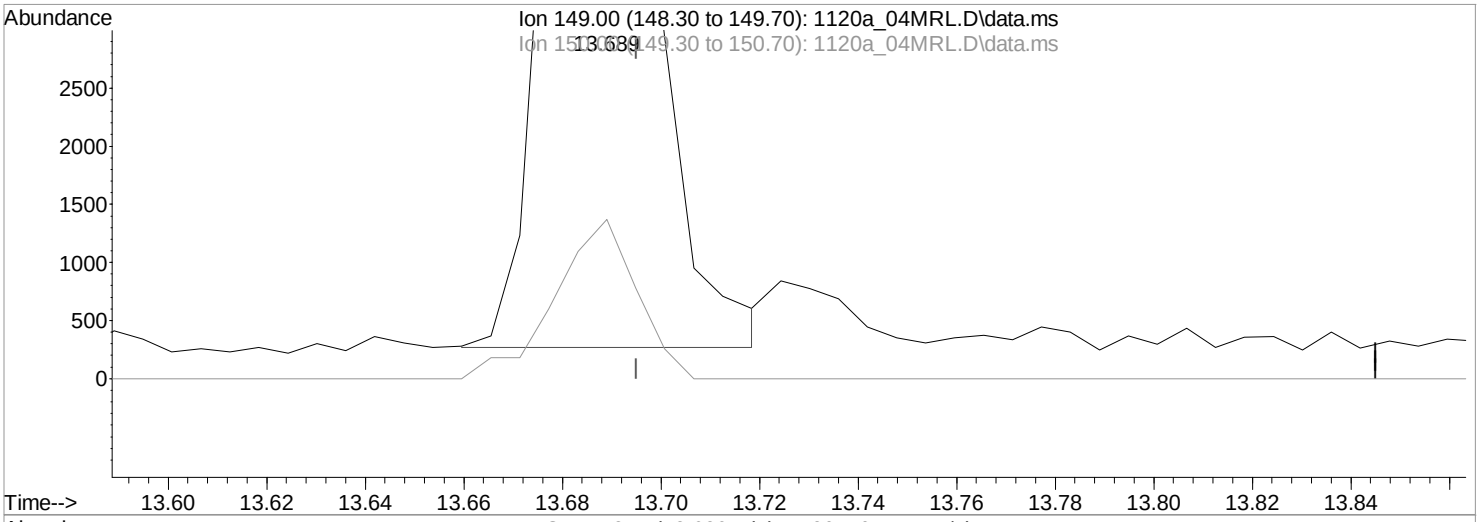
response 15808

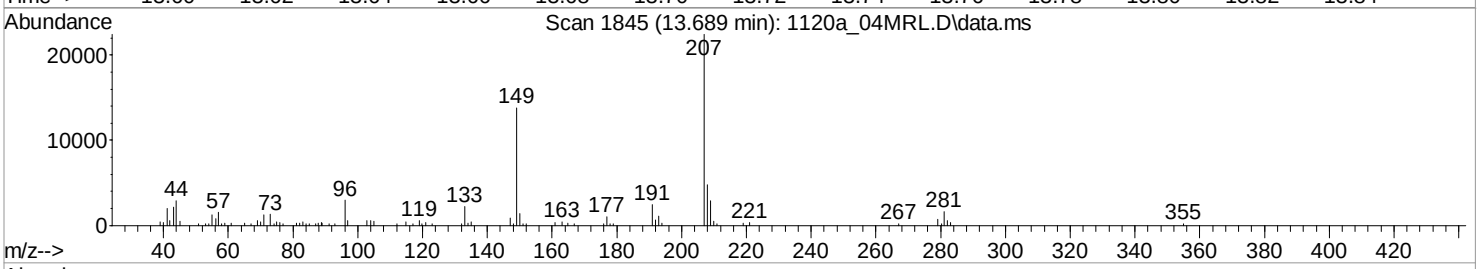
Ion	Exp%	Act%
149.00	100	100
150.00	9.70	10.12
0.00	0.00	0.00
0.00	0.00	0.00

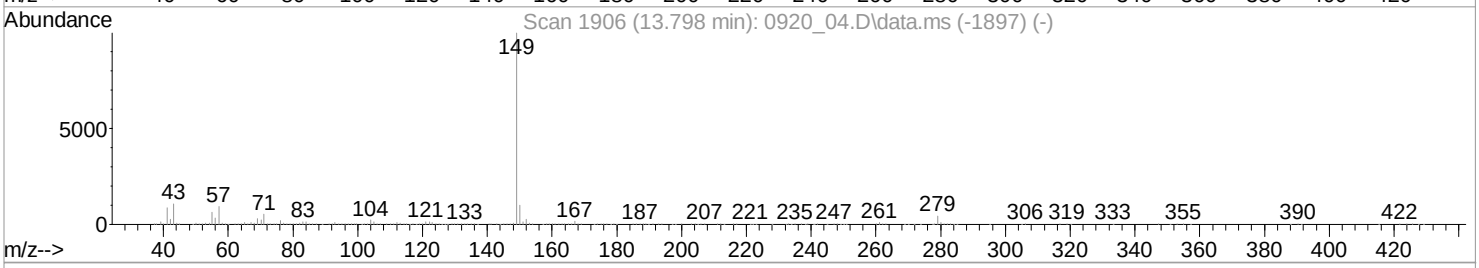
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\112014A\
Data File : 1120a 04MRL.D
Acq On : 20 Nov 2014 7:39 pm
Operator : 377
Sample : MRL SVMS 200 PPB 14K07412
Misc : 8270 PRIMARY CALIBRATION
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Nov 21 15:40:39 2014
Quant Method : C:\msdchem\1\methods\S819K21N.M
Quant Title : 8270 BNA
QLast Update : Fri Nov 21 15:09:20 2014
Response via : Initial Calibration







TIC: 1120a_04MRL.D\data.ms

(87) Di-n-octyl phthalate (MC)

13.689min (-0.006) 142.9302750 ppb m

response 14813

Ion	Exp%	Act%
149.00	100	100
150.00	9.70	9.94
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\112014A\
Data File : 1120a 06MRL.D
Acq On : 20 Nov 2014 8:27 pm
Operator : 377
Sample : MRL SVMS 2K PPB 14K07412
Misc : 8270 PRIMARY CALIBRATION
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Nov 21 15:21:32 2014
Quant Method : C:\msdchem\1\methods\S819K21N.M
Quant Title : 8270 BNA
QLast Update : Fri Nov 21 15:09:20 2014
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 1,4-Dichlorobenzene-d4	5.384	152	127805	8000.0000000 ppb	0.00
22) Naphthalene-d8	6.660	136	555730	8000.0000000 ppb	0.00
40) Acenaphthene-d10	8.536	164	347902	8000.0000000 ppb	0.00
64) Phenanthrene-d10	10.160	188	602742	8000.0000000 ppb	0.00
78) Chrysene-d12	13.042	240	599476	8000.0000000 ppb	0.00
88) Perylene-d12	14.883	264	650596	8000.0000000 ppb	0.00
System Monitoring Compounds					
4) 2-Fluorophenol	4.260	112	35602	1889.1526453 ppb	0.00
Spiked Amount 20.000	Range 10 - 78		Recovery = 9445.76%#		
7) Phenol-d5	4.995	99	47180	1919.3800811 ppb	0.00
Spiked Amount 20.000	Range 5 - 70		Recovery = 9596.90%#		
23) Nitrobenzene-d5	5.913	82	42352m	1900.6058081 ppb	0.00
Spiked Amount 10.000	Range 22 - 123		Recovery = 19006.06%#		
44) 2-Fluorobiphenyl	7.795	172	97997	1984.0023361 ppb	0.00
Spiked Amount 10.000	Range 30 - 131		Recovery = 19840.02%#		
67) 2,4,6-Tribromophenol	9.389	330	11345	1680.9604052 ppb	0.00
Spiked Amount 20.000	Range 11 - 130		Recovery = 8404.80%#		
81) p-Terphenyl-d14	11.871	244	121958	2002.5940001 ppb	0.00
Spiked Amount 10.000	Range 29 - 137		Recovery = 20025.94%#		
Target Compounds					Qvalue
2) Pyridine	3.313	79	49947	1931.4865663 ppb	96
3) N-Nitrosodimethylamine	3.284	74	23262	1837.1132181 ppb	96
5) Aniline	5.072	66	23042	1946.1858471 ppb	97
6) bis(2-Chloroethyl)ether	5.119	63	33778	1974.1407064 ppb	99
8) Phenol	5.007	94	49164	1946.3160051 ppb	99
9) Benzaldehyde	0.000		0	N.D. d	
10) 2-Chlorophenol	5.184	128	42585	1927.3540834 ppb	96
11) n-Decane	5.207	55	9745	2006.9714220 ppb	97
12) 1,3-Dichlorobenzene	5.337	146	48798	1971.4032433 ppb	97
13) 1,4-Dichlorobenzene	5.401	146	49723	1973.0169121 ppb	98
14) Benzyl Alcohol	5.489	79	33827	1930.2830428 ppb	100
15) 1,2-Dichlorobenzene	5.548	146	47682	1967.9743086 ppb	99
16) bis(2-Chloroisopropyl)...	5.625	121	14287	1951.6525672 ppb	99
17) 2-Methylphenol	5.578	108	39311	1986.6401840 ppb	96
18) Hexachloroethane	5.884	117	20889	1926.9452052 ppb	99
19) N-Nitrosodi-n-propylamine	5.742	70	25916	1905.1701759 ppb	91
20) 3&4-Methyl phenol	5.725	107	42034	1923.9244295 ppb	99
21) Acetophenone	0.000		0	N.D. d	
24) Nitrobenzene	5.931	77	43535	1911.1832597 ppb	99
25) Isophorone	6.166	82	76241	1923.9378666 ppb	98
26) 2-Nitrophenol	6.254	139	20463	1760.5007729 ppb	99
27) 2,4-Dimethylphenol	6.266	107	41196	1933.1623741 ppb	96
28) bis(2-Chlorethoxy)methane	6.372	93	53626	1969.9387020 ppb	99
29) 2,4-Dichlorophenol	6.489	162	34275	1907.1002743 ppb	97
30) Benzoic Acid	0.000		0	N.D. d	
31) 1,2,4-Trichlorobenzene	6.589	180	40531	1978.3377070 ppb	97
32) Naphthalene	6.678	128	141131	1972.7076527 ppb	100
33) 4-Chloroaniline	6.713	65	16753	1979.5709908 ppb	96
34) Hexachloro-1,3-butadiene	6.801	225	22264	1978.6386666 ppb	98
35) Caprolactam	0.000		0	N.D. d	
36) 4-Chloro-3-methylphenol	7.201	107	35580	1872.7970938 ppb	99
37) 2-Methylnaphthalene	7.407	142	94925	1976.3374311 ppb	99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\112014A\
Data File : 1120a 06MRL.D
Acq On : 20 Nov 2014 8:27 pm
Operator : 377
Sample : MRL SVMS 2K PPB 14K07412
Misc : 8270 PRIMARY CALIBRATION
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Nov 21 15:21:32 2014
Quant Method : C:\msdchem\1\methods\S819K21N.M
Quant Title : 8270 BNA
QLast Update : Fri Nov 21 15:09:20 2014
Response via : Initial Calibration

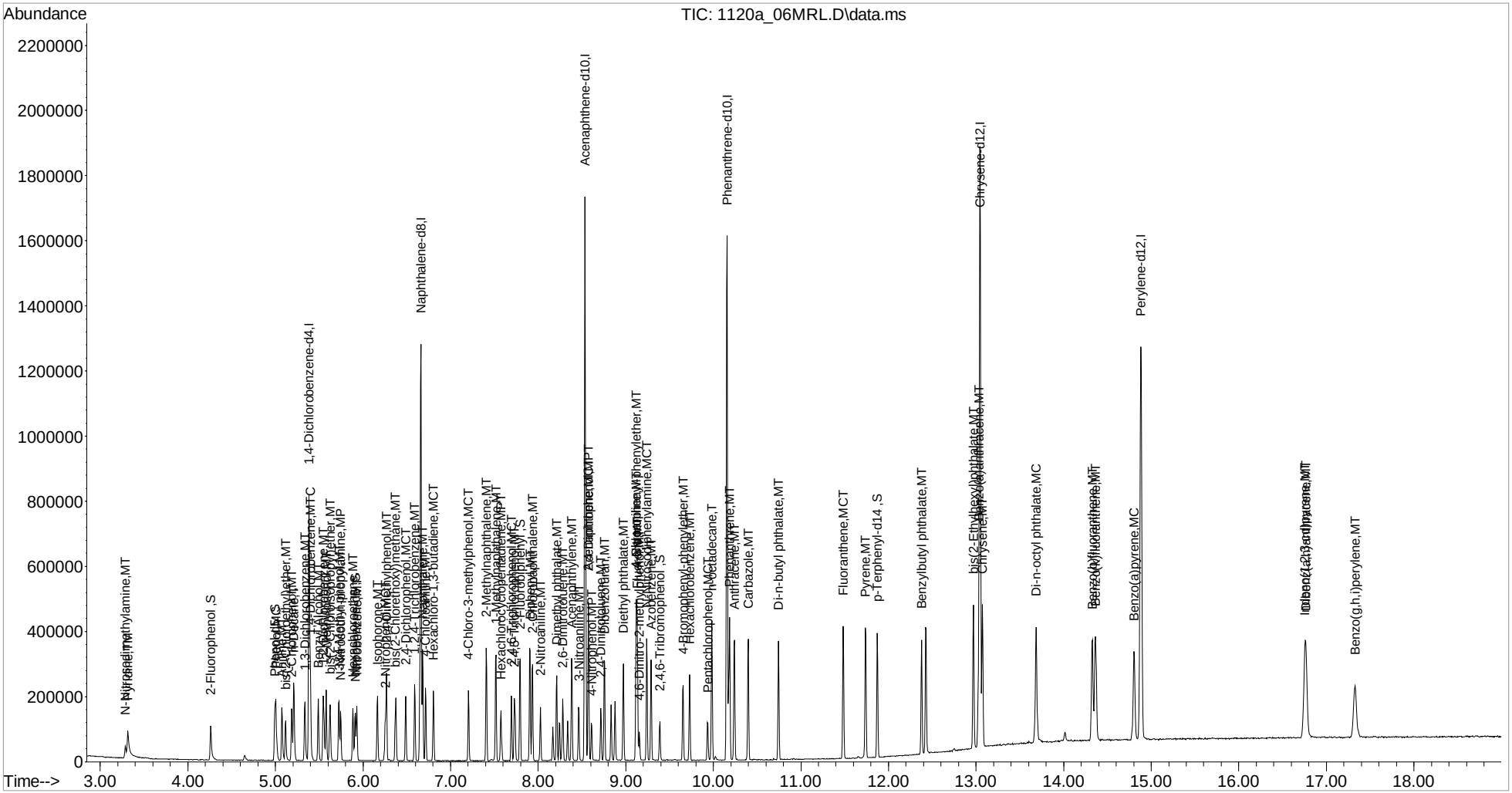
Compound	R.T.	QIon	Response	Conc Units		Dev(Min)
38) 1-Methylnaphthalene	7.519	142	88806	1968.0293417 ppb		97
39) 1,2,4,5-Tetrachloroben...	0.000		0	N.D.		
41) Hexachlorocyclopentadiene	7.578	237	21961	1856.0798577 ppb		97
42) 2,4,6-Trichlorophenol	7.695	196	22575	1819.1744762 ppb		98
43) 2,4,5-Trichlorophenol	7.731	196	25743	1906.4184411 ppb		97
45) Biphenyl	7.907	154	112964	1998.7571058 ppb		99
46) 2-Chloronaphthalene	7.936	162	86729	1983.2251909 ppb		99
47) 2-Nitroaniline	8.025	138	25726	1725.2030756 ppb		98
48) Acenaphthylene	8.383	152	134506	1949.5382362 ppb		100
49) Dimethyl phthalate	8.213	163	99601	2002.1956049 ppb		99
50) 2,6-Dinitrotoluene	8.278	165	21725	1848.3993965 ppb		92
51) 3-Nitroaniline	8.466	138	24319	1807.1827072 ppb		94
52) Acenaphthene	8.572	153	95498	2001.0795488 ppb		97
53) 2,4-Dinitrophenol	8.572	184	6535	2461.9438712 ppb	#	1
54) Dibenzofuran	8.760	168	124696	1984.8749273 ppb		99
55) 2,4-Dinitrotoluene	8.713	165	25529	1690.0285016 ppb		86
56) 2,3,4,6-Tetrachlorophenol	0.000		0	N.D. d		
57) 4-Nitrophenol	8.613	139	17700	1708.8012738 ppb		96
58) Fluorene	9.130	166	106193	2003.2282204 ppb		98
59) 4-Chlorophenyl-phenyle...	9.119	204	47480	1993.5922564 ppb		95
60) Diethyl phthalate	8.972	149	105956	2000.5766913 ppb		99
61) 4-Nitroaniline	9.119	138	24870	2034.5126714 ppb		87
62) Azobenzene	9.289	77	109132	1987.4620208 ppb		98
63) Atrazine	0.000		0	N.D.		
65) 4,6-Dinitro-2-methylph...	9.154	198	10385	2348.3272054 ppb	#	70
66) N-Nitrosodiphenylamine	9.236	169	86396	1978.6801006 ppb		99
68) 4-Bromophenyl-phenylether	9.654	248	26265	1901.4524128 ppb		97
69) Hexachlorobenzene	9.730	284	30834	1980.3961461 ppb		98
70) n-octadecane	9.983	55	18573m	1884.2564943 ppb		
71) Pentachlorophenol	9.936	266	12817	1691.7420957 ppb		94
72) Phenanthrene	10.183	178	157221	1998.1023421 ppb		99
73) Anthracene	10.242	178	155914	1973.6774189 ppb		99
74) Carbazole	10.401	167	146741	2076.7424667 ppb		99
75) Di-n-butyl phthalate	10.742	149	179393	1921.1544317 ppb		100
76) 2-nitrodiphenylamine	0.000		0	N.D.		
77) Fluoranthene	11.483	202	163529	1964.2416732 ppb		99
79) Benzidine	0.000		0	N.D. d		
80) Pyrene	11.736	202	172237	1993.0774533 ppb		99
82) Benzylbutyl phthalate	12.377	149	80078	1864.8870463 ppb		97
83) 3,3-Dichlorobenzidine	0.000		0	N.D.		
84) Benzo(a)anthracene	13.030	228	163676	1957.9440567 ppb		98
85) Chrysene	13.071	228	155483	2013.4110242 ppb		99
86) bis(2-Ethylhexyl)phtha...	12.971	149	124174	1853.9635224 ppb		99
87) Di-n-octyl phthalate	13.689	149	200511	1915.4583906 ppb		100
89) Benzo(b)fluoranthene	14.330	252	166896	1938.4798064 ppb		98
90) Benzo(k)fluoranthene	14.365	252	157282	1910.9376453 ppb		97
91) Benzo(a)pyrene	14.801	252	150037	1890.0642934 ppb		99
92) Indeno(1,2,3-cd)pyrene	16.753	276	167699	1948.6799426 ppb		99
93) Dibenz(a,h)anthracene	16.765	278	141485	1930.8130571 ppb		98
94) Benzo(g,h,i)perylene	17.330	276	142596	1978.8181871 ppb		99

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\112014A\
Data File : 1120a 06MRL.D
Acq On : 20 Nov 2014 8:27 pm
Operator : 377
Sample : MRL SVMS 2K PPB 14K07412
Misc : 8270 PRIMARY CALIBRATION
ALS Vial : 6 Sample Multiplier: 1

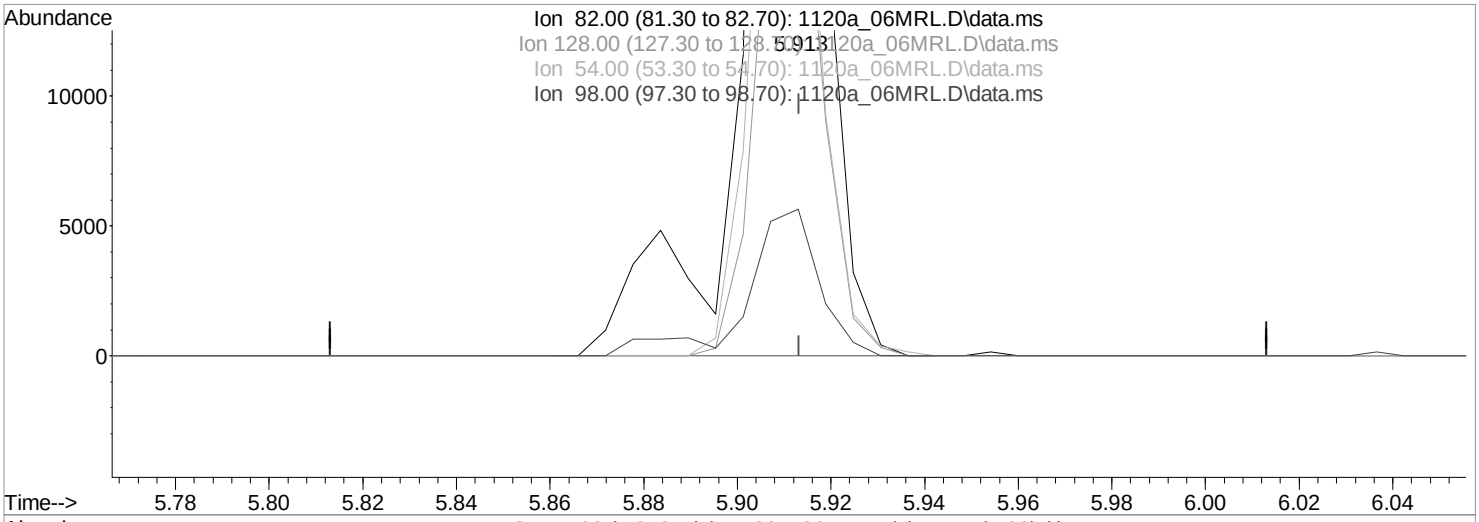
Quant Time: Nov 21 15:21:32 2014
Quant Method : C:\msdchem\1\methods\S819K21N.M
Quant Title : 8270 BNA
QLast Update : Fri Nov 21 15:09:20 2014
Response via : Initial Calibration

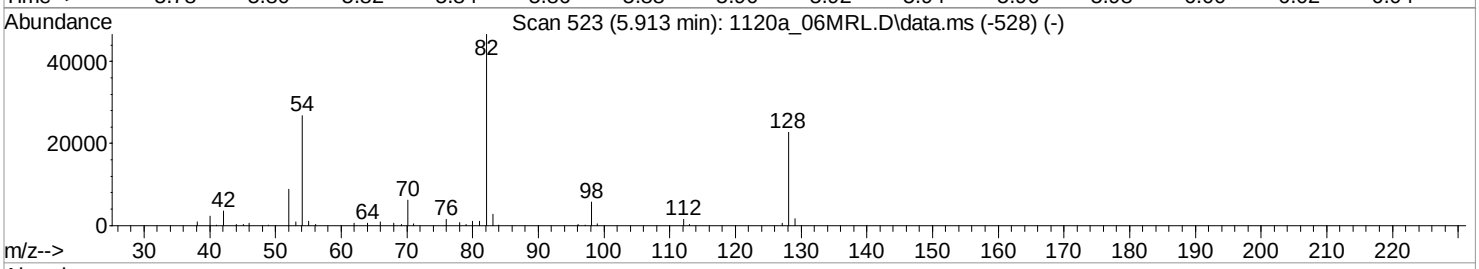


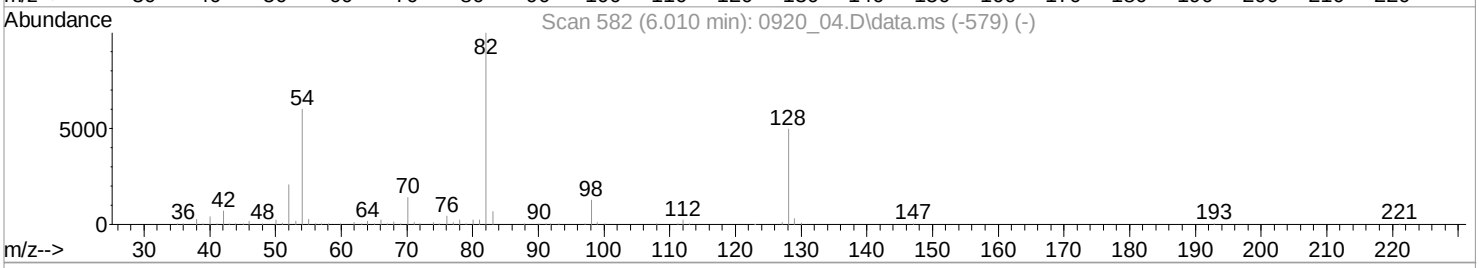
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\112014A\
Data File : 1120a 06MRL.D
Acq On : 20 Nov 2014 8:27 pm
Operator : 377
Sample : MRL SVMS 2K PPB 14K07412
Misc : 8270 PRIMARY CALIBRATION
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Nov 21 15:19:50 2014
Quant Method : C:\msdchem\1\methods\S819K21N.M
Quant Title : 8270 BNA
QLast Update : Fri Nov 21 15:09:20 2014
Response via : Initial Calibration







TIC: 1120a_06MRL.D\data.ms

(23) Nitrobenzene-d5 (S)

5.913min (-0.000) 2121.3528795 ppb

Qvalue = 99

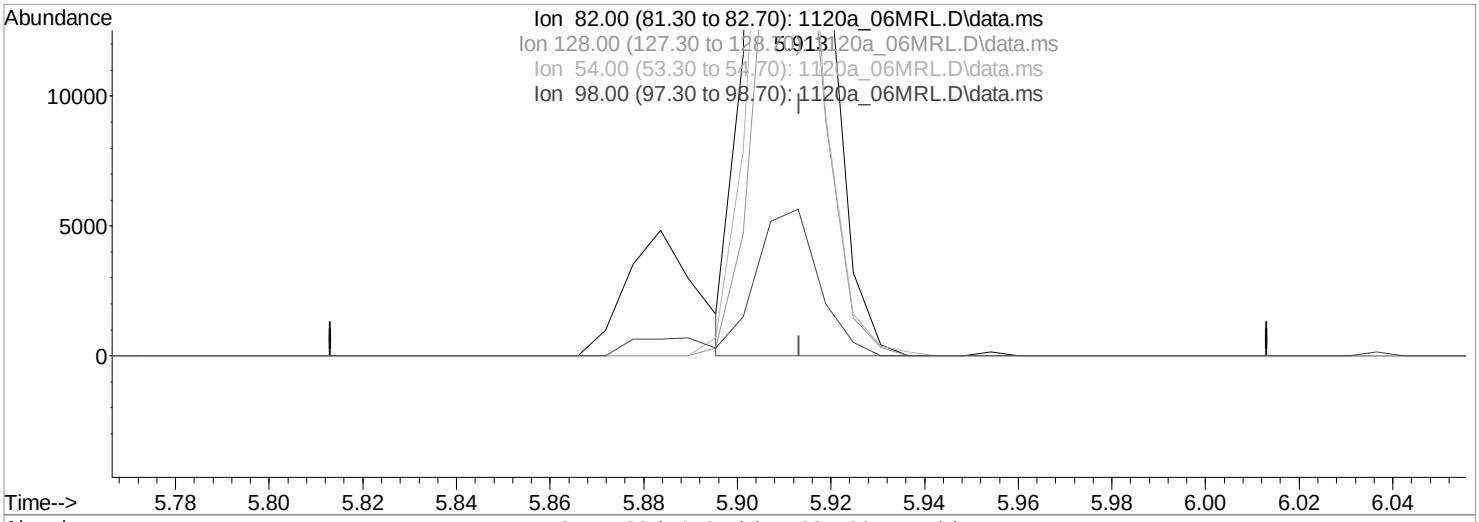
response 47271

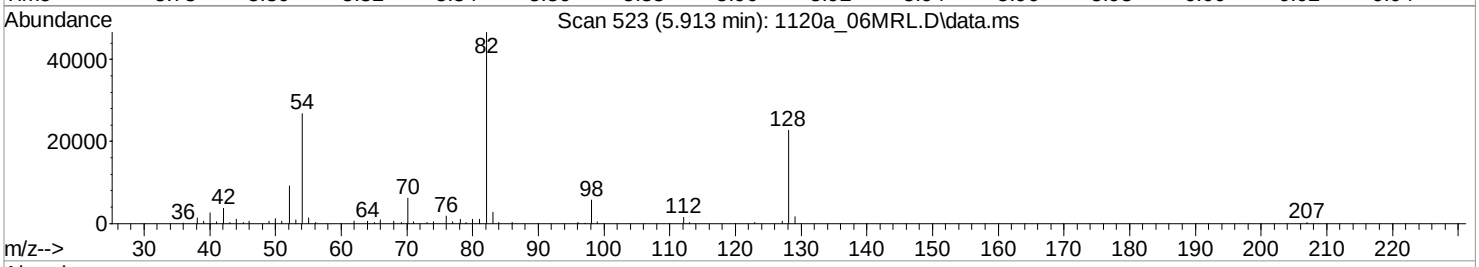
Ion	Exp%	Act%
82.00	100	100
128.00	49.50	48.64
54.00	57.40	57.21
98.00	11.70	12.12

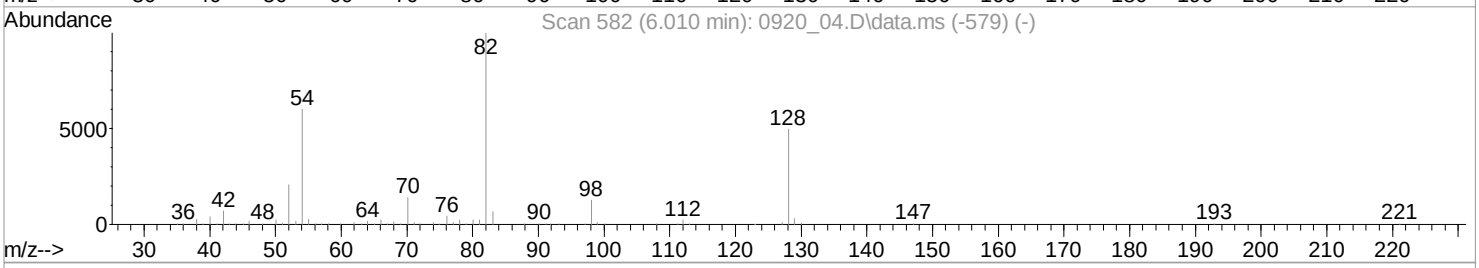
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\112014A\
Data File : 1120a 06MRL.D
Acq On : 20 Nov 2014 8:27 pm
Operator : 377
Sample : MRL SVMS 2K PPB 14K07412
Misc : 8270 PRIMARY CALIBRATION
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Nov 21 15:19:50 2014
Quant Method : C:\msdchem\1\methods\S819K21N.M
Quant Title : 8270 BNA
QLast Update : Fri Nov 21 15:09:20 2014
Response via : Initial Calibration







TIC: 1120a_06MRL.D\data.ms

(23) Nitrobenzene-d5 (S)

5.913min (-0.000) 1900.6058081 ppb m

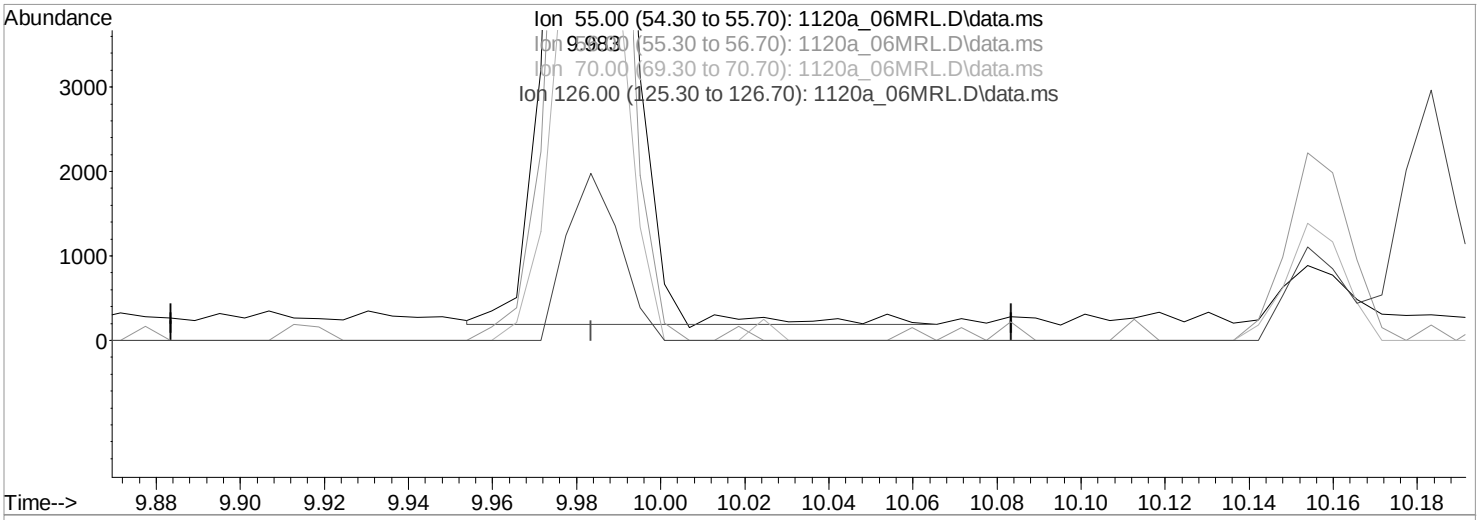
response 42352

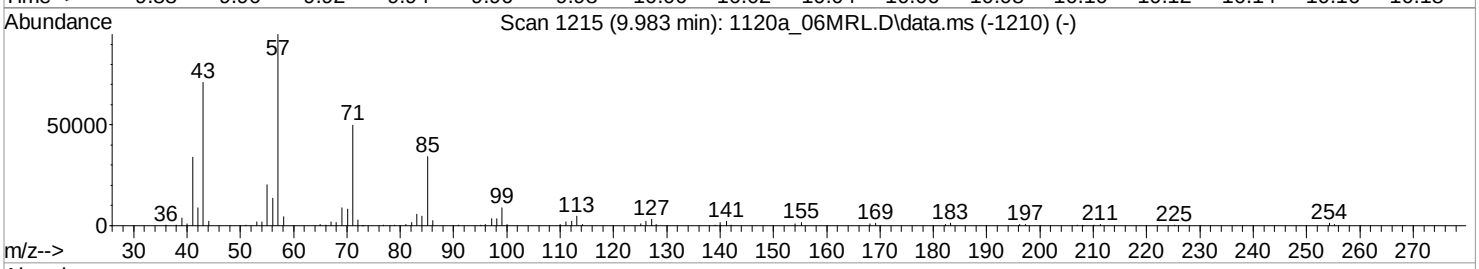
Ion	Exp%	Act%
82.00	100	100
128.00	49.50	48.64
54.00	57.40	57.21
98.00	11.70	12.12

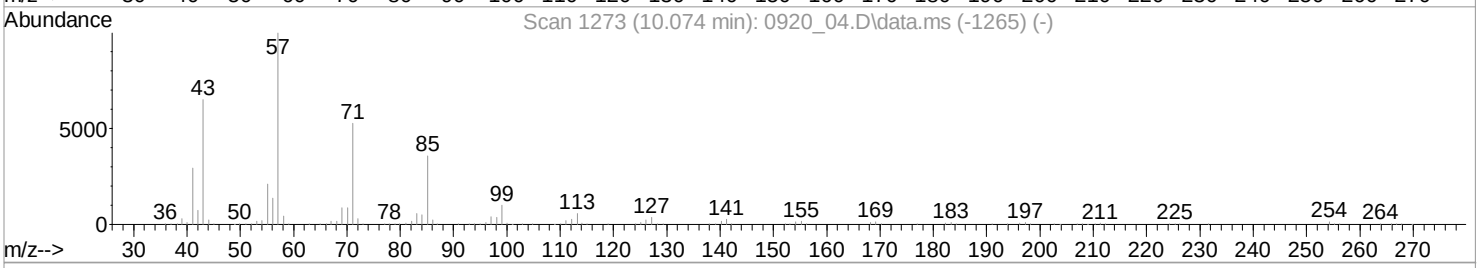
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\112014A\
Data File : 1120a 06MRL.D
Acq On : 20 Nov 2014 8:27 pm
Operator : 377
Sample : MRL SVMS 2K PPB 14K07412
Misc : 8270 PRIMARY CALIBRATION
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Nov 21 15:19:50 2014
Quant Method : C:\msdchem\1\methods\S819K21N.M
Quant Title : 8270 BNA
QLast Update : Fri Nov 21 15:09:20 2014
Response via : Initial Calibration







TIC: 1120a_06MRL.D\data.ms

(70) n-octadecane (T)

9.983min (-0.000) 1890.0392230 ppb

Qvalue = 99

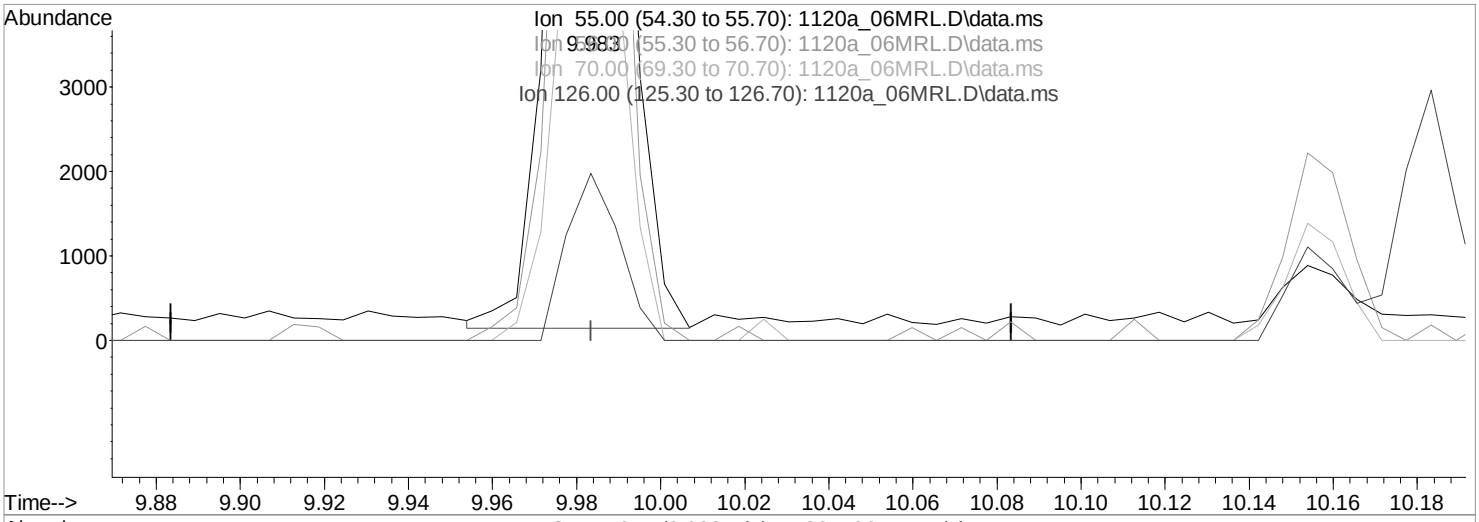
response 18630

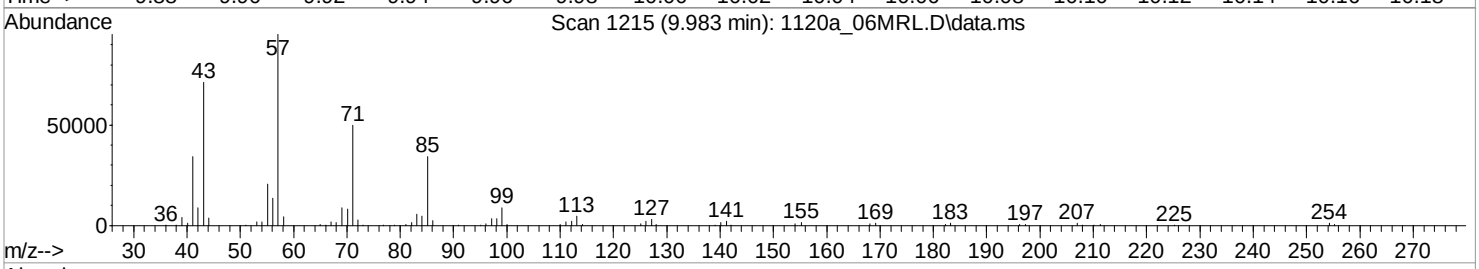
Ion	Exp%	Act%
55.00	100	100
56.00	65.40	65.94
70.00	39.80	40.19
126.00	9.50	9.72

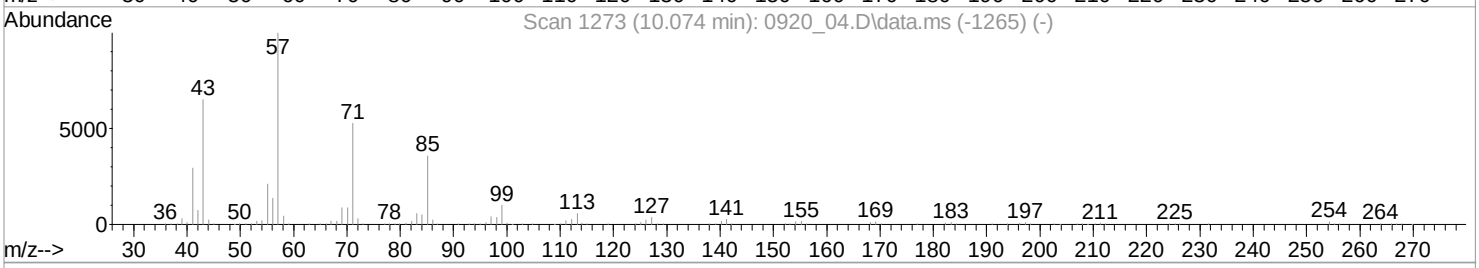
Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\data\112014A\
Data File : 1120a 06MRL.D
Acq On    : 20 Nov 2014   8:27 pm
Operator  : 377
Sample    : MRL SVMS 2K PPB 14K07412
Misc      : 8270 PRIMARY CALIBRATION
ALS Vial  : 6   Sample Multiplier: 1

Quant Time: Nov 21 15:19:50 2014
Quant Method : C:\msdchem\1\methods\S819K21N.M
Quant Title  : 8270 BNA
QLast Update : Fri Nov 21 15:09:20 2014
Response via : Initial Calibration
```







TIC: 1120a_06MRL.D\data.ms

(70) n-octadecane (T)

9.983min (-0.000) 1884.2564943 ppb m

response 18573

Ion	Exp%	Act%
55.00	100	100
56.00	65.40	65.33
70.00	39.80	39.82
126.00	9.50	9.63

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\112014A\
Data File : 1120a 15MRL.D
Acq On : 21 Nov 2014 12:03 am
Operator : 377
Sample : MRL TCL 2K1 PPB 14G21532
Misc : 8270 TCL CALIBRATION
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Nov 21 15:22:41 2014
Quant Method : C:\msdchem\1\methods\S819K21N.M
Quant Title : 8270 BNA
QLast Update : Fri Nov 21 15:09:20 2014
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 1,4-Dichlorobenzene-d4	5.384	152	118586	8000.0000000 ppb	0.00
22) Naphthalene-d8	6.654	136	499363	8000.0000000 ppb	0.00
40) Acenaphthene-d10	8.536	164	300124	8000.0000000 ppb	0.00
64) Phenanthrene-d10	10.154	188	523634	8000.0000000 ppb	0.00
78) Chrysene-d12	13.042	240	517877	8000.0000000 ppb	0.00
88) Perylene-d12	14.883	264	555637	8000.0000000 ppb	0.00
System Monitoring Compounds					
4) 2-Fluorophenol	0.000	112	0	0.0000000 ppb	
Spiked Amount 20.000	Range 10 - 78		Recovery = 0.00%#		
7) Phenol-d5	0.000	99	0	0.0000000 ppb	
Spiked Amount 20.000	Range 5 - 70		Recovery = 0.00%#		
23) Nitrobenzene-d5	0.000	82	0	0.0000000 ppb	
Spiked Amount 10.000	Range 22 - 123		Recovery = 0.00%#		
44) 2-Fluorobiphenyl	0.000	172	0d	0.0000000 ppb	
Spiked Amount 10.000	Range 30 - 131		Recovery = 0.00%#		
67) 2,4,6-Tribromophenol	0.000	330	0	0.0000000 ppb	
Spiked Amount 20.000	Range 11 - 130		Recovery = 0.00%#		
81) p-Terphenyl-d14	0.000	244	0	0.0000000 ppb	
Spiked Amount 10.000	Range 29 - 137		Recovery = 0.00%#		
Target Compounds					Qvalue
2) Pyridine	0.000		0	N.D.	
3) N-Nitrosodimethylamine	0.000		0	N.D.	
5) Aniline	0.000		0	N.D.	
6) bis(2-Chloroethyl)ether	0.000		0	N.D.	
8) Phenol	0.000		0	N.D.	
9) Benzaldehyde	4.990	105	19248	1792.7425036 ppb	97
10) 2-Chlorophenol	0.000		0	N.D.	
11) n-Decane	0.000		0	N.D. d	
12) 1,3-Dichlorobenzene	0.000		0	N.D.	
13) 1,4-Dichlorobenzene	0.000		0	N.D.	
14) Benzyl Alcohol	0.000		0	N.D.	
15) 1,2-Dichlorobenzene	0.000		0	N.D.	
16) bis(2-Chloroisopropyl)...	0.000		0	N.D.	
17) 2-Methylphenol	0.000		0	N.D.	
18) Hexachloroethane	0.000		0	N.D.	
19) N-Nitrosodi-n-propylamine	0.000		0	N.D.	
20) 3&4-Methyl phenol	0.000		0	N.D. d	
21) Acetophenone	5.754	105	58630	1988.6048334 ppb	99
24) Nitrobenzene	0.000		0	N.D.	
25) Isophorone	0.000		0	N.D.	
26) 2-Nitrophenol	0.000		0	N.D.	
27) 2,4-Dimethylphenol	0.000		0	N.D.	
28) bis(2-Chlorethoxy)methane	0.000		0	N.D.	
29) 2,4-Dichlorophenol	0.000		0	N.D.	
30) Benzoic Acid	6.284	105	15804	1716.5116719 ppb	99
31) 1,2,4-Trichlorobenzene	0.000		0	N.D. d	
32) Naphthalene	0.000		0	N.D. d	
33) 4-Chloroaniline	0.000		0	N.D. d	
34) Hexachloro-1,3-butadiene	0.000		0	N.D.	
35) Caprolactam	7.037	113	11756	1908.5250051 ppb	97
36) 4-Chloro-3-methylphenol	0.000		0	N.D.	
37) 2-Methylnaphthalene	0.000		0	N.D.	

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\112014A\
Data File : 1120a 15MRL.D
Acq On : 21 Nov 2014 12:03 am
Operator : 377
Sample : MRL TCL 2K1 PPB 14G21532
Misc : 8270 TCL CALIBRATION
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Nov 21 15:22:41 2014
Quant Method : C:\msdchem\1\methods\S819K21N.M
Quant Title : 8270 BNA
QLast Update : Fri Nov 21 15:09:20 2014
Response via : Initial Calibration

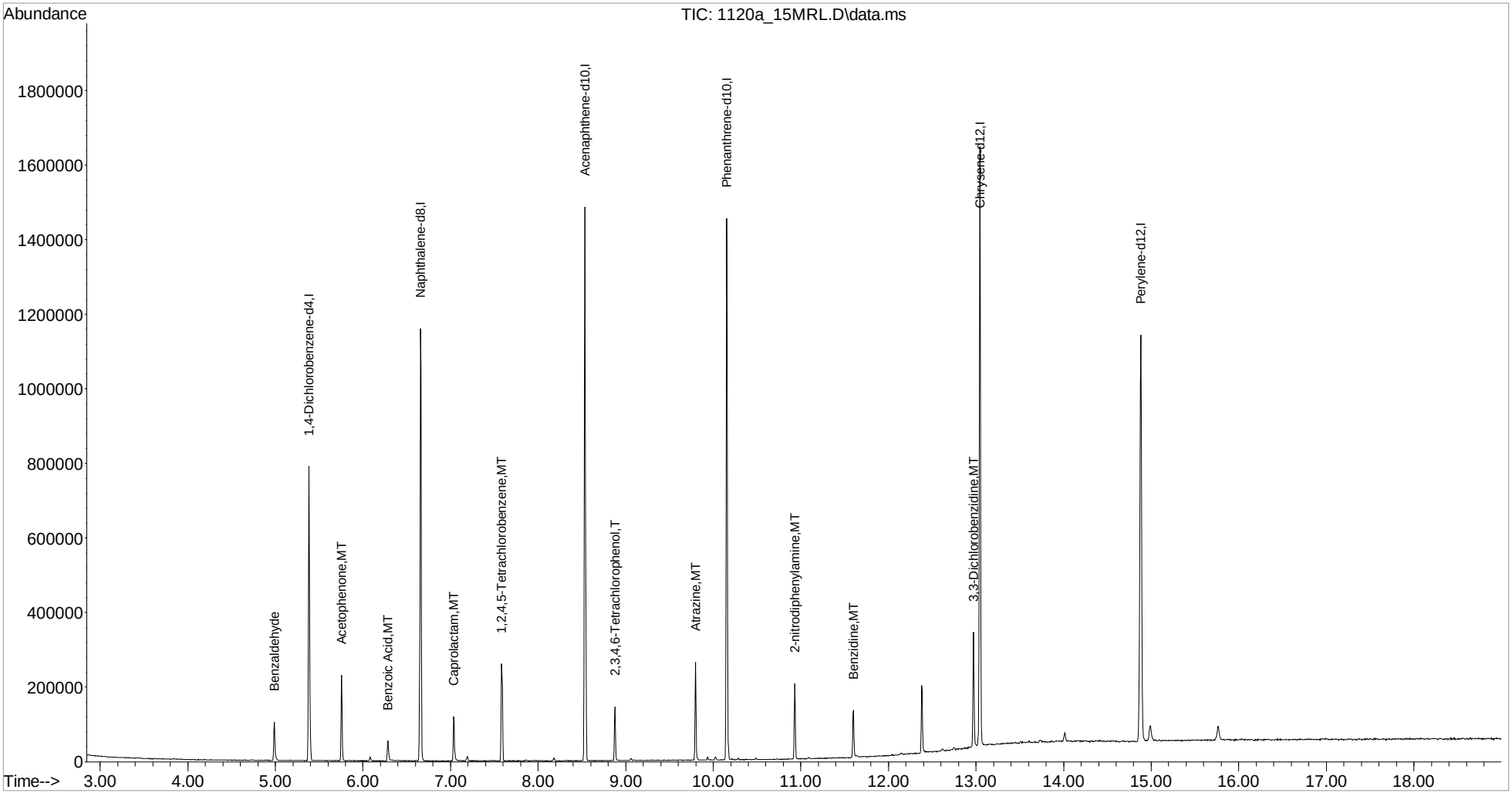
	Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
38)	1-Methylnaphthalene	0.000		0	N.D. d	
39)	1,2,4,5-Tetrachloroben...	7.584	216	40649	1999.8397305 ppb	99
41)	Hexachlorocyclopentadiene	0.000		0	N.D.	
42)	2,4,6-Trichlorophenol	0.000		0	N.D.	
43)	2,4,5-Trichlorophenol	0.000		0	N.D.	
45)	Biphenyl	0.000		0	N.D.	
46)	2-Chloronaphthalene	0.000		0	N.D.	
47)	2-Nitroaniline	0.000		0	N.D.	
48)	Acenaphthylene	0.000		0	N.D.	
49)	Dimethyl phthalate	0.000		0	N.D.	
50)	2,6-Dinitrotoluene	0.000		0	N.D.	
51)	3-Nitroaniline	0.000		0	N.D.	
52)	Acenaphthene	0.000		0	N.D.	
53)	2,4-Dinitrophenol	0.000		0	N.D.	
54)	Dibenzofuran	0.000		0	N.D.	
55)	2,4-Dinitrotoluene	0.000		0	N.D.	
56)	2,3,4,6-Tetrachlorophenol	8.878	232	16331	1969.7560149 ppb	96
57)	4-Nitrophenol	0.000		0	N.D.	
58)	Fluorene	0.000		0	N.D.	
59)	4-Chlorophenyl-phenyle...	0.000		0	N.D.	
60)	Diethyl phthalate	0.000		0	N.D.	
61)	4-Nitroaniline	0.000		0	N.D.	
62)	Azobenzene	0.000		0	N.D.	
63)	Atrazine	9.795	200	24579	1894.0458438 ppb	91
65)	4,6-Dinitro-2-methylph...	0.000		0	N.D.	
66)	N-Nitrosodiphenylamine	0.000		0	N.D.	
68)	4-Bromophenyl-phenylether	0.000		0	N.D.	
69)	Hexachlorobenzene	0.000		0	N.D.	
70)	n-octadecane	0.000		0	N.D. d	
71)	Pentachlorophenol	0.000		0	N.D. d	
72)	Phenanthrene	0.000		0	N.D. d	
73)	Anthracene	0.000		0	N.D.	
74)	Carbazole	0.000		0	N.D.	
75)	Di-n-butyl phthalate	0.000		0	N.D. d	
76)	2-nitrodiphenylamine	10.930	167	25715	1877.4610858 ppb	94
77)	Fluoranthene	0.000		0	N.D.	
79)	Benzidine	11.601	184	55776	1905.7673567 ppb	100
80)	Pyrene	0.000		0	N.D.	
82)	Benzylbutyl phthalate	0.000		0	N.D. d	
83)	3,3-Dichlorobenzidine	12.972	252	58129	1949.7919066 ppb	99
84)	Benzo(a)anthracene	0.000		0	N.D. d	
85)	Chrysene	0.000		0	N.D. d	
86)	bis(2-Ethylhexyl)phtha...	0.000		0	N.D. d	
87)	Di-n-octyl phthalate	0.000		0	N.D. d	
89)	Benzo(b)fluoranthene	0.000		0	N.D.	
90)	Benzo(k)fluoranthene	0.000		0	N.D.	
91)	Benzo(a)pyrene	0.000		0	N.D. d	
92)	Indeno(1,2,3-cd)pyrene	0.000		0	N.D.	
93)	Dibenz(a,h)anthracene	0.000		0	N.D.	
94)	Benzo(g,h,i)perylene	0.000		0	N.D.	

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\112014A\
Data File : 1120a 15MRL.D
Acq On : 21 Nov 2014 12:03 am
Operator : 377
Sample : MRL TCL 2K1 PPB 14G21532
Misc : 8270 TCL CALIBRATION
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Nov 21 15:22:41 2014
Quant Method : C:\msdchem\1\methods\S819K21N.M
Quant Title : 8270 BNA
QLast Update : Fri Nov 21 15:09:20 2014
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\112114\
Data File : 1121 02.D
Acq On : 21 Nov 2014 4:08 pm
Operator : 377
Sample : SSCV SVMS 10K PPB 14I30242
Misc : 8270 SSCV
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Nov 21 16:32:14 2014
Quant Method : C:\msdchem\1\methods\S819K21N.M
Quant Title : 8270 BNA
QLast Update : Fri Nov 21 15:09:20 2014
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 1,4-Dichlorobenzene-d4	5.384	152	134264	8000.0000000 ppb	0.00
22) Naphthalene-d8	6.654	136	589140	8000.0000000 ppb	0.00
40) Acenaphthene-d10	8.536	164	370018	8000.0000000 ppb	0.00
64) Phenanthrene-d10	10.154	188	639022	8000.0000000 ppb	0.00
78) Chrysene-d12	13.042	240	653863	8000.0000000 ppb	0.00
88) Perylene-d12	14.883	264	689614	8000.0000000 ppb	0.00
System Monitoring Compounds					
4) 2-Fluorophenol	0.000	112	0	0.0000000 ppb	
Spiked Amount 20.000	Range 10 - 78		Recovery	= 0.00%#	
7) Phenol-d5	0.000	99	0	0.0000000 ppb	
Spiked Amount 20.000	Range 5 - 70		Recovery	= 0.00%#	
23) Nitrobenzene-d5	5.884	82	21706	918.8471198 ppb	-0.03
Spiked Amount 10.000	Range 22 - 123		Recovery	= 9188.47%#	
44) 2-Fluorobiphenyl	7.860	172	80	1.5228371 ppb	0.06
Spiked Amount 10.000	Range 30 - 131		Recovery	= 15.23%#	
67) 2,4,6-Tribromophenol	0.000	330	0	0.0000000 ppb	
Spiked Amount 20.000	Range 11 - 130		Recovery	= 0.00%#	
81) p-Terphenyl-d14	0.000	244	0	0.0000000 ppb	
Spiked Amount 10.000	Range 29 - 137		Recovery	= 0.00%#	
Target Compounds					Qvalue
2) Pyridine	3.313	79	251491	9257.4845251 ppb	99
3) N-Nitrosodimethylamine	3.284	74	122449	9205.1819328 ppb	95
5) Aniline	5.072	66	115502	9286.2827978 ppb	97
6) bis(2-Chloroethyl)ether	5.113	63	169621	9436.5241278 ppb	94
8) Phenol	5.007	94	246693	9296.3236136 ppb	98
9) Benzaldehyde	5.007	105	748	61.5329507 ppb #	1
10) 2-Chlorophenol	5.184	128	220415	9495.8591943 ppb	100
11) n-Decane	5.184	55	2479	485.9864211 ppb #	1
12) 1,3-Dichlorobenzene	5.331	146	240512	9249.0783173 ppb	97
13) 1,4-Dichlorobenzene	5.401	146	247941	9365.0499025 ppb	100
14) Benzyl Alcohol	5.490	79	171911	9337.9047954 ppb	99
15) 1,2-Dichlorobenzene	5.548	146	237458	9329.1060466 ppb	98
16) bis(2-Chloroisopropyl)...	5.625	121	84658	11008.2359554 ppb #	94
17) 2-Methylphenol	5.578	108	199156	9580.4692706 ppb	98
18) Hexachloroethane	5.884	117	105022	9221.8969092 ppb	97
19) N-Nitrosodi-n-propylamine	5.742	70	132907	9300.4062917 ppb	95
20) 3&4-Methyl phenol	5.725	107	217058	9456.9555879 ppb	99
21) Acetophenone	5.719	105	2002	59.9744824 ppb #	1
24) Nitrobenzene	5.931	77	226712	9388.2279017 ppb	100
25) Isophorone	6.166	82	418205	9954.9025005 ppb	99
26) 2-Nitrophenol	6.248	139	115055	9337.2232789 ppb	95
27) 2,4-Dimethylphenol	6.266	107	207746	9195.8374590 ppb	97
28) bis(2-Chlorethoxy)methane	6.372	93	279111	9671.6282024 ppb	99
29) 2,4-Dichlorophenol	6.489	162	178315	9358.9962792 ppb	97
30) Benzoic Acid	6.266	105	6921	772.4275843 ppb #	1
31) 1,2,4-Trichlorobenzene	6.589	180	199638	9191.8229739 ppb	99
32) Naphthalene	6.678	128	701607	9250.8056183 ppb	99
33) 4-Chloroaniline	6.713	65	80881	9015.0955918 ppb	97
34) Hexachloro-1,3-butadiene	6.801	225	120422	10095.1892723 ppb	99
35) Caprolactam	7.201	113	5611	772.1050548 ppb #	25
36) 4-Chloro-3-methylphenol	7.201	107	190545	9460.7958619 ppb	99
37) 2-Methylnaphthalene	7.407	142	464633	9125.0630440 ppb	100

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\112114\
Data File : 1121 02.D
Acq On : 21 Nov 2014 4:08 pm
Operator : 377
Sample : SSCV SVMS 10K PPB 14I30242
Misc : 8270 SSCV
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Nov 21 16:32:14 2014
Quant Method : C:\msdchem\1\methods\S819K21N.M
Quant Title : 8270 BNA
QLast Update : Fri Nov 21 15:09:20 2014
Response via : Initial Calibration

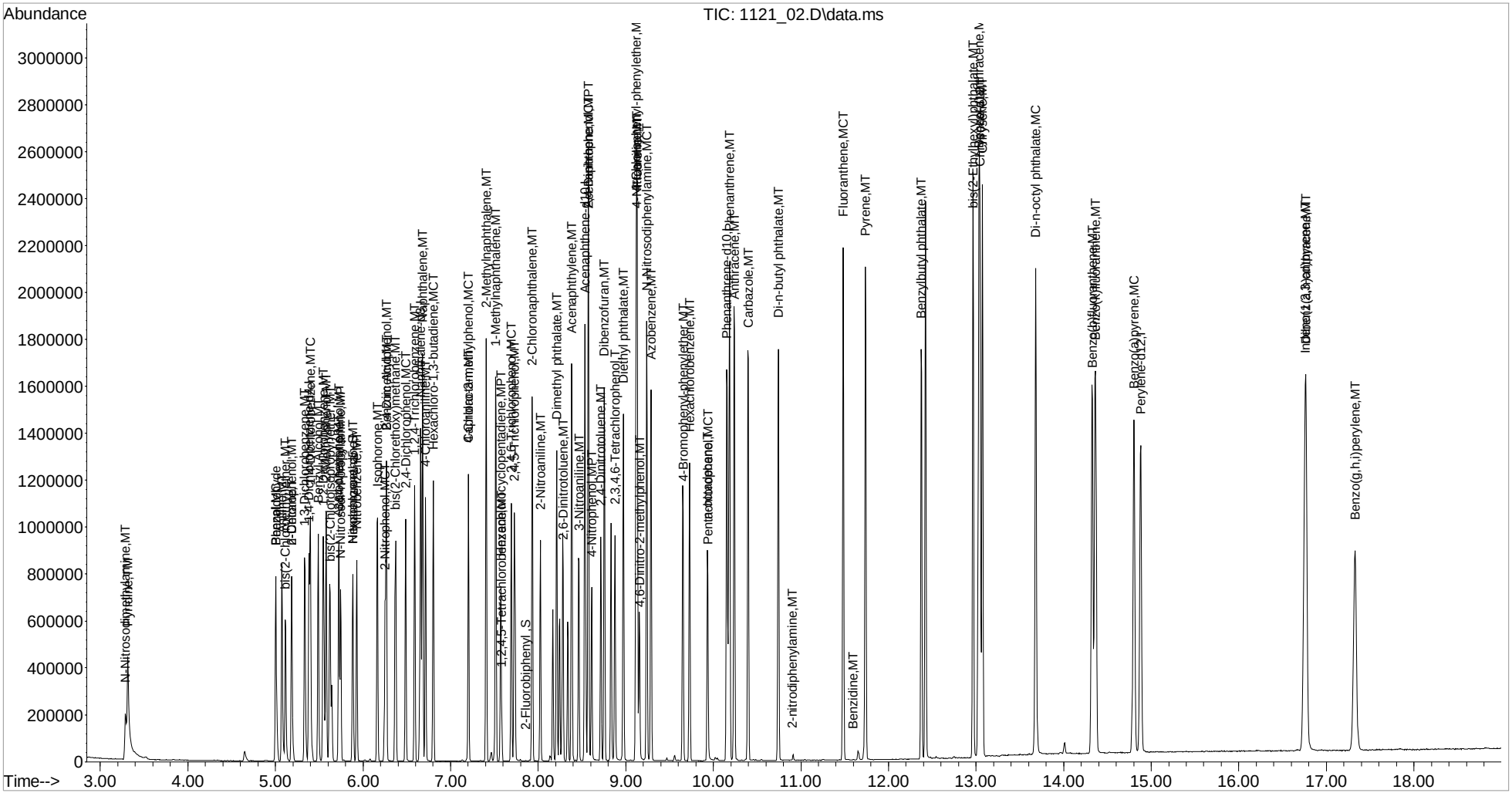
Compound	R.T.	QIon	Response	Conc Units		Dev(Min)
38) 1-Methylnaphthalene	7.513	142	447758	9360.0451942 ppb		99
39) 1,2,4,5-Tetrachloroben...	7.584	216	165	6.8806128 ppb	#	29
41) Hexachlorocyclopentadiene	7.578	237	107260	8523.4695202 ppb		99
42) 2,4,6-Trichlorophenol	7.695	196	128948	9770.0161055 ppb		96
43) 2,4,5-Trichlorophenol	7.731	196	135825	9457.4240305 ppb		99
45) Biphenyl	0.000		0	N.D.		
46) 2-Chloronaphthalene	7.931	162	432617	9301.3362912 ppb		97
47) 2-Nitroaniline	8.025	138	152991	9646.4588439 ppb		96
48) Acenaphthylene	8.383	152	726899	9905.9982100 ppb		99
49) Dimethyl phthalate	8.213	163	496428	9382.8148804 ppb		99
50) 2,6-Dinitrotoluene	8.283	165	118749	9499.4851461 ppb		96
51) 3-Nitroaniline	8.466	138	133298	9313.5244024 ppb		95
52) Acenaphthene	8.572	153	492827	9709.5397537 ppb		99
53) 2,4-Dinitrophenol	8.572	184	55517	9209.8407966 ppb	#	50
54) Dibenzofuran	8.754	168	632911	9472.3413738 ppb		99
55) 2,4-Dinitrotoluene	8.713	165	156455	9738.3133889 ppb		89
56) 2,3,4,6-Tetrachlorophenol	8.878	232	105047	10276.8776281 ppb		98
57) 4-Nitrophenol	8.613	139	110168	10000.1803405 ppb		96
58) Fluorene	9.130	166	543761	9644.4323099 ppb		98
59) 4-Chlorophenyl-phenyle...	9.119	204	237757	9386.2693800 ppb		97
60) Diethyl phthalate	8.972	149	528222	9377.3517973 ppb		99
61) 4-Nitroaniline	9.125	138	135370	10412.1667994 ppb		98
62) Azobenzene	9.289	77	564319	9662.8551801 ppb		97
63) Atrazine	0.000		0	N.D.		
65) 4,6-Dinitro-2-methylph...	9.160	198	80190	9513.3154463 ppb		97
66) N-Nitrosodiphenylamine	9.236	169	445374	9621.0496376 ppb		100
68) 4-Bromophenyl-phenylether	9.654	248	135033	9220.6941528 ppb		96
69) Hexachlorobenzene	9.730	284	150823	9137.0378545 ppb		99
70) n-octadecane	9.930	55	2544	243.4393130 ppb	#	21
71) Pentachlorophenol	9.936	266	97349	11327.1578744 ppb		98
72) Phenanthrene	10.183	178	801802	9611.4730937 ppb		99
73) Anthracene	10.242	178	795846	9502.4532412 ppb		100
74) Carbazole	10.401	167	736905	9836.9013798 ppb		100
75) Di-n-butyl phthalate	10.742	149	928365	9377.5888551 ppb		100
76) 2-nitrodiphenylamine	10.901	167	70	583.2361797 ppb	#	22
77) Fluoranthene	11.483	202	832307	9429.7316040 ppb		99
79) Benzidine	11.595	184	790	819.9468096 ppb		68
80) Pyrene	11.736	202	877727	9311.9839746 ppb		100
82) Benzylbutyl phthalate	12.371	149	438347	9359.2789445 ppb		97
83) 3,3-Dichlorobenzidine	0.000		0	N.D.		
84) Benzo(a)anthracene	13.030	228	846968	9288.9647774 ppb		99
85) Chrysene	13.071	228	830822	9863.7613632 ppb		99
86) bis(2-Ethylhexyl)phtha...	12.966	149	668851	9155.5604102 ppb		100
87) Di-n-octyl phthalate	13.683	149	1125500	9857.4607557 ppb		99
89) Benzo(b)fluoranthene	14.330	252	889115	9742.6838412 ppb		96
90) Benzo(k)fluoranthene	14.365	252	783129	8976.4810598 ppb		98
91) Benzo(a)pyrene	14.801	252	784191	9319.7739491 ppb		100
92) Indeno(1,2,3-cd)pyrene	16.759	276	862929	9459.9845199 ppb		99
93) Dibenz(a,h)anthracene	16.765	278	746294	9608.2677561 ppb		98
94) Benzo(g,h,i)perylene	17.330	276	737955	9661.2595353 ppb		99

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\112114\
Data File : 1121 02.D
Acq On : 21 Nov 2014 4:08 pm
Operator : 377
Sample : SSCV SVMS 10K PPB 14I30242
Misc : 8270 SSCV
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Nov 21 16:32:14 2014
Quant Method : C:\msdchem\1\methods\S819K21N.M
Quant Title : 8270 BNA
QLast Update : Fri Nov 21 15:09:20 2014
Response via : Initial Calibration

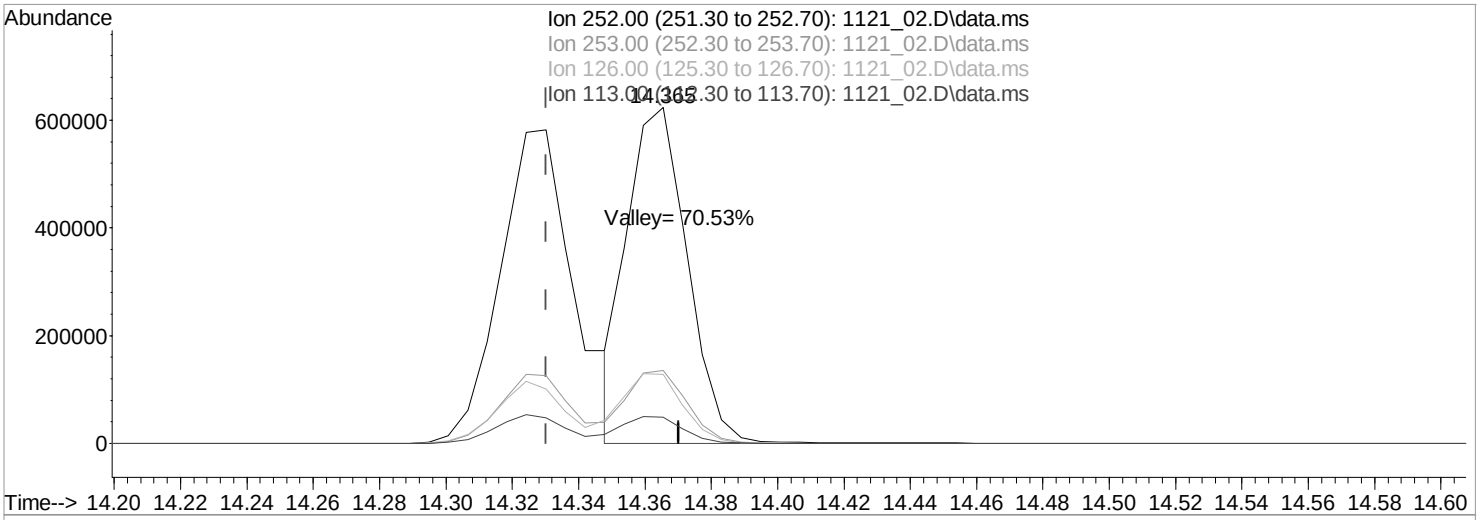


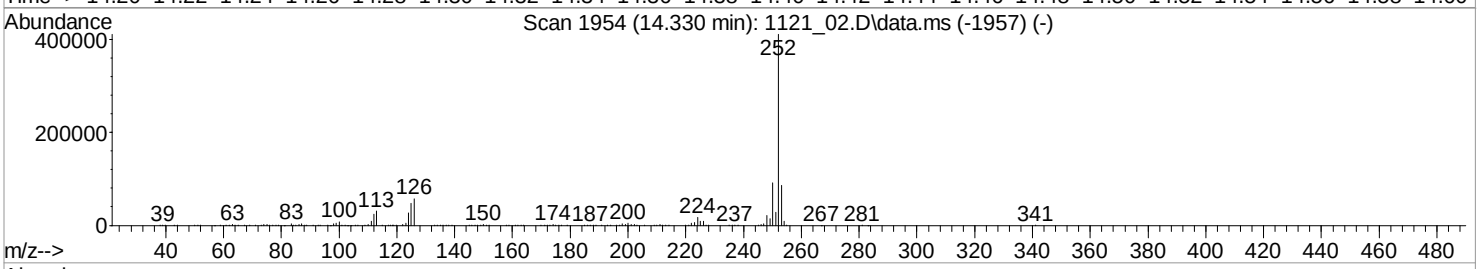
PDF Generated On: 11/21/2014 -- By: Chris McCord

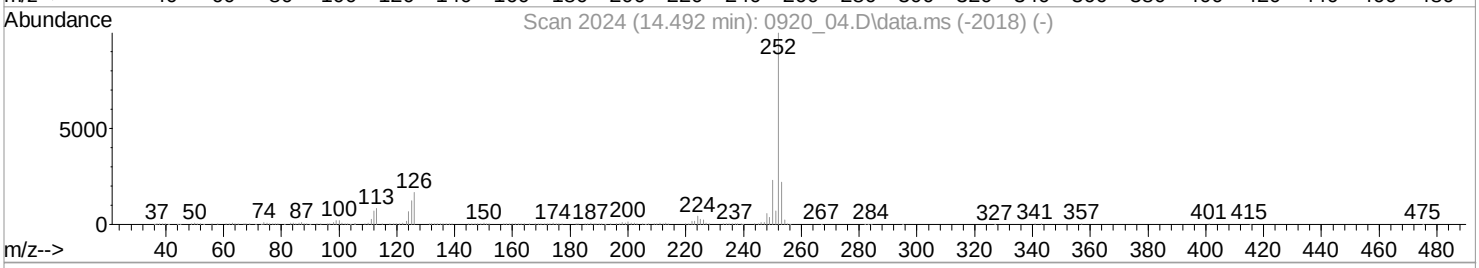
Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\data\112114\
Data File : 1121 02.D
Acq On    : 21 Nov 2014   4:08 pm
Operator  : 377
Sample    : SSCV SVMS 10K PPB 14I30242
Misc      : 8270 SSCV
ALS Vial  : 11   Sample Multiplier: 1

Quant Time: Nov 21 16:32:14 2014
Quant Method : C:\msdchem\1\methods\S819K21N.M
Quant Title  : 8270 BNA
QLast Update : Fri Nov 21 15:09:20 2014
Response via : Initial Calibration
```







TIC: 1121_02.D\data.ms

(89) Benzo(b)fluoranthene (MT)

14.330min (-0.000) 9742.6838412 ppb

Qvalue = 96

response 889115

Ion	Exp%	Act%
252.00	100	100
253.00	22.10	21.55
126.00	20.10	17.33
113.00	9.60	8.23

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\112014A\
Data File : 1120a 03.D
Acq On : 20 Nov 2014 7:15 pm
Operator : 377
Sample : MSTD SVMS 10K PPB 14K07412
Misc : 8270 PRIMARY CALIBRATION
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Nov 21 14:24:28 2014
Quant Method : C:\msdchem\1\methods\S819K21N.M
Quant Title : 8270 BNA
QLast Update : Fri Nov 21 14:21:01 2014
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 1,4-Dichlorobenzene-d4	5.384	152	126709	8000.0000000 ppb	0.00
22) Naphthalene-d8	6.660	136	555733	8000.0000000 ppb	0.00
40) Acenaphthene-d10	8.536	164	348611	8000.0000000 ppb	0.00
64) Phenanthrene-d10	10.160	188	603105	8000.0000000 ppb	0.00
78) Chrysene-d12	13.048	240	618307	8000.0000000 ppb	0.00
88) Perylene-d12	14.889	264	654206	8000.0000000 ppb	0.00
System Monitoring Compounds					
4) 2-Fluorophenol	4.260	112	184122	10000.0000000 ppb	0.00
Spiked Amount 20.000	Range 10 - 78		Recovery = 50000.00%#		
7) Phenol-d5	4.996	99	240907	10000.0000000 ppb	0.00
Spiked Amount 20.000	Range 5 - 70		Recovery = 50000.00%#		
23) Nitrobenzene-d5	5.913	82	222270	10000.0000000 ppb	0.00
Spiked Amount 10.000	Range 22 - 123		Recovery = 100000.00%#		
44) 2-Fluorobiphenyl	7.795	172	492450	10000.0000000 ppb	0.00
Spiked Amount 10.000	Range 30 - 131		Recovery = 100000.00%#		
67) 2,4,6-Tribromophenol	9.389	330	66136	10000.0000000 ppb	0.00
Spiked Amount 20.000	Range 11 - 130		Recovery = 50000.00%#		
81) p-Terphenyl-d14	11.877	244	617532	10000.0000000 ppb	0.00
Spiked Amount 10.000	Range 29 - 137		Recovery = 100000.00%#		
Target Compounds					Qvalue
2) Pyridine	3.313	79	249195	10000.0000000 ppb	100
3) N-Nitrosodimethylamine	3.284	74	124380	10000.0000000 ppb	100
5) Aniline	5.072	66	117074	10000.0000000 ppb	100
6) bis(2-Chloroethyl)ether	5.119	63	169486	10000.0000000 ppb	100
8) Phenol	5.007	94	248801	10000.0000000 ppb	100
9) Benzaldehyde	0.000		0	N.D. d	
10) 2-Chlorophenol	5.184	128	221860	10000.0000000 ppb	100
11) n-Decane	5.207	55	47617	10000.0000000 ppb	100
12) 1,3-Dichlorobenzene	5.337	146	241937	10000.0000000 ppb	100
13) 1,4-Dichlorobenzene	5.401	146	244188	10000.0000000 ppb	100
14) Benzyl Alcohol	5.490	79	172311	10000.0000000 ppb	100
15) 1,2-Dichlorobenzene	5.548	146	235699	10000.0000000 ppb	100
16) bis(2-Chloroisopropyl)...	5.625	121	71373	10000.0000000 ppb	100
17) 2-Methylphenol	5.578	108	196795	10000.0000000 ppb	100
18) Hexachloroethane	5.884	117	105588	10000.0000000 ppb	100
19) N-Nitrosodi-n-propylamine	5.748	70	134077	10000.0000000 ppb	100
20) 3&4-Methyl phenol	5.725	107	216328	10000.0000000 ppb	100
21) Acetophenone	0.000		0	N.D.	
24) Nitrobenzene	5.931	77	223404	10000.0000000 ppb	100
25) Isophorone	6.166	82	395674	10000.0000000 ppb	100
26) 2-Nitrophenol	6.254	139	111721	10000.0000000 ppb	100
27) 2,4-Dimethylphenol	6.266	107	214437	10000.0000000 ppb	100
28) bis(2-Chlorethoxy)methane	6.372	93	268613	10000.0000000 ppb	100
29) 2,4-Dichlorophenol	6.490	162	178437	10000.0000000 ppb	100
30) Benzoic Acid	0.000		0	N.D. d	
31) 1,2,4-Trichlorobenzene	6.590	180	200226	10000.0000000 ppb	100
32) Naphthalene	6.678	128	687589	10000.0000000 ppb	100
33) 4-Chloroaniline	6.713	65	82904	10000.0000000 ppb	100
34) Hexachloro-1,3-butadiene	6.801	225	110821	10000.0000000 ppb	100
35) Caprolactam	0.000		0	N.D. d	
36) 4-Chloro-3-methylphenol	7.201	107	186921	10000.0000000 ppb	100
37) 2-Methylnaphthalene	7.407	142	472918	10000.0000000 ppb	100

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\112014A\
Data File : 1120a 03.D
Acq On : 20 Nov 2014 7:15 pm
Operator : 377
Sample : MSTD SVMS 10K PPB 14K07412
Misc : 8270 PRIMARY CALIBRATION
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Nov 21 14:24:28 2014
Quant Method : C:\msdchem\1\methods\S819K21N.M
Quant Title : 8270 BNA
QLast Update : Fri Nov 21 14:21:01 2014
Response via : Initial Calibration

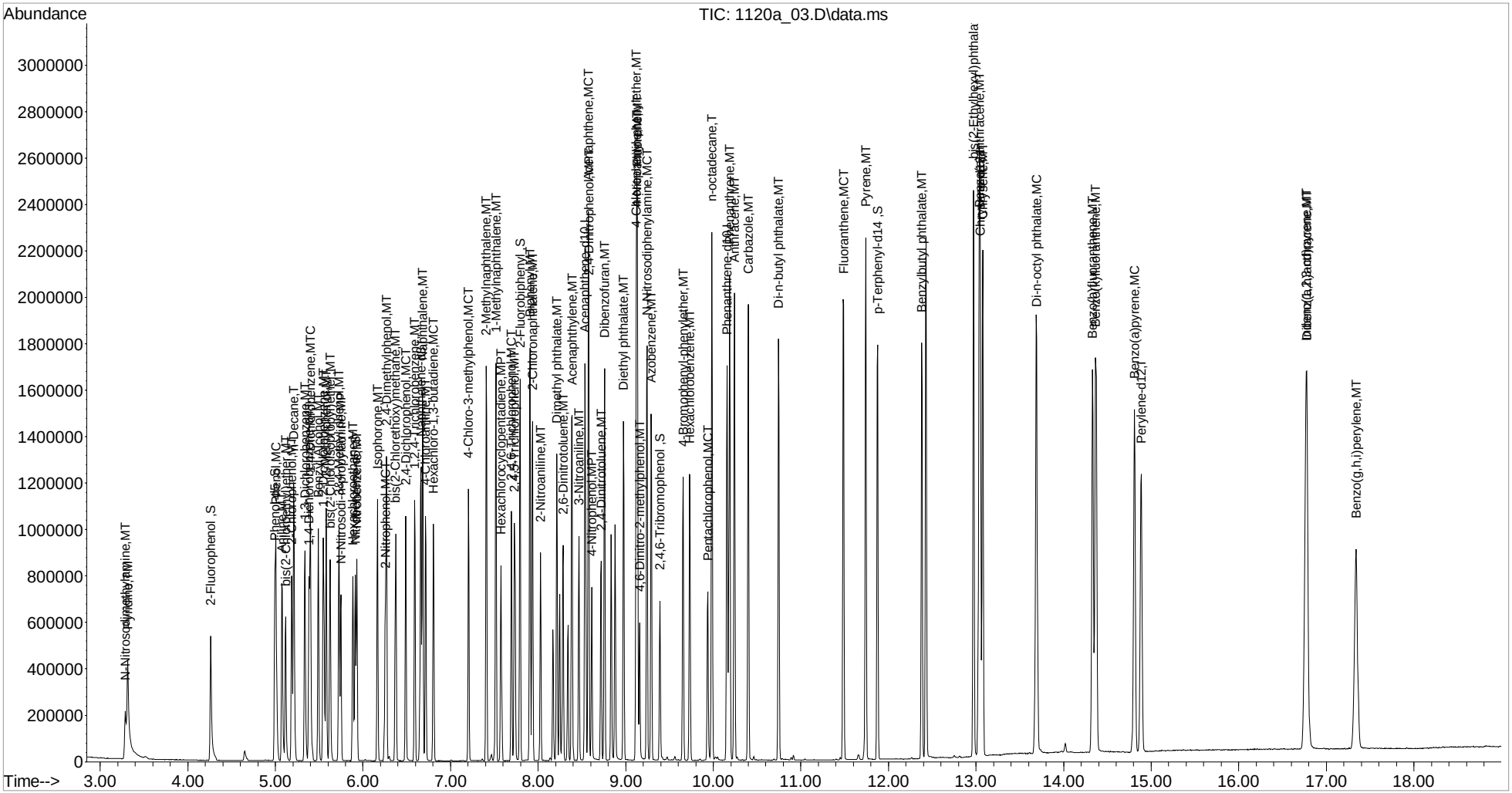
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
38) 1-Methylnaphthalene	7.519	142	445264	10000.0000000 ppb	100
39) 1,2,4,5-Tetrachloroben...	0.000		0	N.D. d	
41) Hexachlorocyclopentadiene	7.578	237	116110	10000.0000000 ppb	100
42) 2,4,6-Trichlorophenol	7.695	196	123397	10000.0000000 ppb	100
43) 2,4,5-Trichlorophenol	7.731	196	136366	10000.0000000 ppb	100
45) Biphenyl	7.907	154	562715	10000.0000000 ppb	100
46) 2-Chloronaphthalene	7.937	162	433707	10000.0000000 ppb	100
47) 2-Nitroaniline	8.025	138	146262	10000.0000000 ppb	100
48) Acenaphthylene	8.389	152	693932	10000.0000000 ppb	100
49) Dimethyl phthalate	8.213	163	498997	10000.0000000 ppb	100
50) 2,6-Dinitrotoluene	8.284	165	115597	10000.0000000 ppb	100
51) 3-Nitroaniline	8.466	138	135616	10000.0000000 ppb	100
52) Acenaphthene	8.572	153	472030	10000.0000000 ppb	100
53) 2,4-Dinitrophenol	8.578	184	49213	10000.2032025 ppb	100
54) Dibenzofuran	8.760	168	628721	10000.0000000 ppb	100
55) 2,4-Dinitrotoluene	8.719	165	150398	10000.0000000 ppb	100
56) 2,3,4,6-Tetrachlorophenol	0.000		0	N.D. d	
57) 4-Nitrophenol	8.613	139	105511	10007.9675984 ppb	100
58) Fluorene	9.131	166	531171	10000.0000000 ppb	100
59) 4-Chlorophenyl-phenyle...	9.119	204	239850	10000.0000000 ppb	100
60) Diethyl phthalate	8.972	149	532508	10000.0000000 ppb	100
61) 4-Nitroaniline	9.125	138	133550	10018.0782993 ppb	100
62) Azobenzene	9.289	77	553858	10009.4517788 ppb	100
63) Atrazine	0.000		0	N.D.	
65) 4,6-Dinitro-2-methylph...	9.160	198	72230	10000.0000000 ppb	100
66) N-Nitrosodiphenylamine	9.242	169	439991	10000.0000000 ppb	100
68) 4-Bromophenyl-phenylether	9.654	248	134944	10000.0000000 ppb	100
69) Hexachlorobenzene	9.731	284	150841	10000.0000000 ppb	100
70) n-octadecane	9.983	55	99562	10000.0000000 ppb	100
71) Pentachlorophenol	9.936	266	77948	10000.0000000 ppb	100
72) Phenanthrene	10.183	178	780804	10000.0000000 ppb	100
73) Anthracene	10.242	178	790645	10000.0000000 ppb	100
74) Carbazole	10.401	167	743317	10000.0000000 ppb	100
75) Di-n-butyl phthalate	10.742	149	968976	10001.7340897 ppb	100
76) 2-nitrodiphenylamine	0.000		0	N.D. d	
77) Fluoranthene	11.489	202	862241	10006.1041063 ppb	100
79) Benzidine	0.000		0	N.D. d	
80) Pyrene	11.742	202	895710	10000.0000000 ppb	100
82) Benzylbutyl phthalate	12.377	149	441856	10000.0000000 ppb	100
83) 3,3-Dichlorobenzidine	0.000		0	N.D.	
84) Benzo(a)anthracene	13.036	228	848003	10000.0000000 ppb	100
85) Chrysene	13.077	228	781168	10000.0000000 ppb	100
86) bis(2-Ethylhexyl)phtha...	12.971	149	662732	10000.0000000 ppb	100
87) Di-n-octyl phthalate	13.695	149	1126836	10000.0000000 ppb	100
89) Benzo(b)fluoranthene	14.330	252	831431	10001.5638138 ppb	100
90) Benzo(k)fluoranthene	14.366	252	851364	10000.0000000 ppb	100
91) Benzo(a)pyrene	14.807	252	809743	10004.0523094 ppb	100
92) Indeno(1,2,3-cd)pyrene	16.771	276	880728	9997.1055060 ppb	100
93) Dibenz(a,h)anthracene	16.777	278	747102	9995.1970738 ppb	100
94) Benzo(g,h,i)perylene	17.342	276	736808	10000.0000000 ppb	100

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\112014A\
Data File : 1120a 03.D
Acq On : 20 Nov 2014 7:15 pm
Operator : 377
Sample : MSTD SVMS 10K PPB 14K07412
Misc : 8270 PRIMARY CALIBRATION
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Nov 21 14:24:28 2014
Quant Method : C:\msdchem\1\methods\S819K21N.M
Quant Title : 8270 BNA
QLast Update : Fri Nov 21 14:21:01 2014
Response via : Initial Calibration

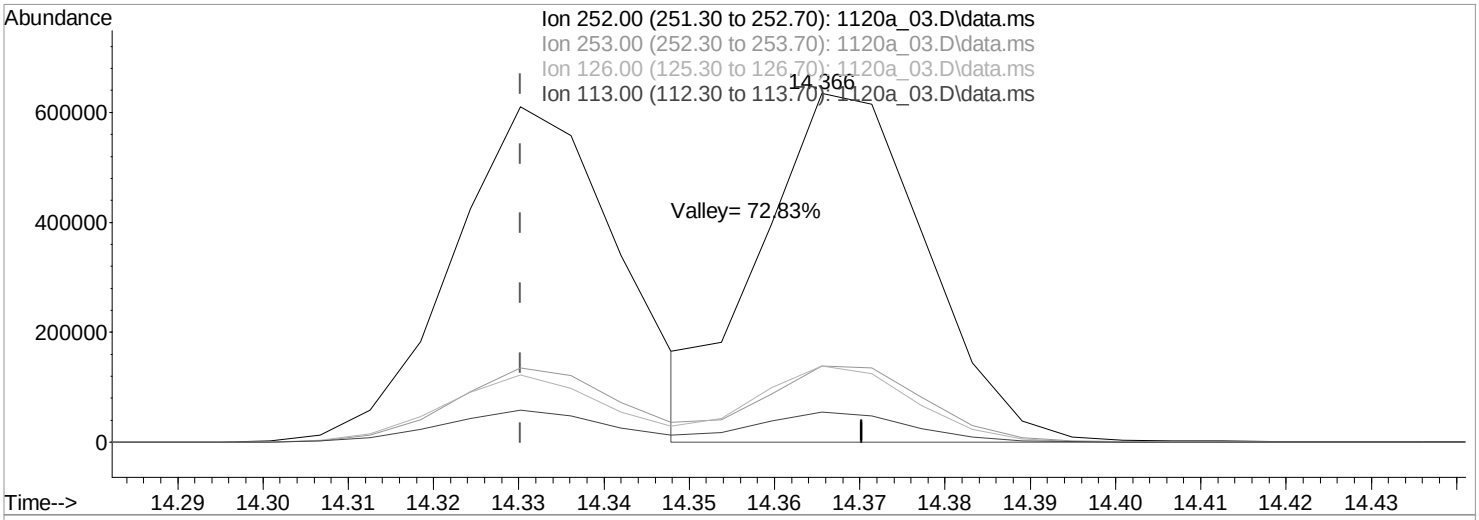


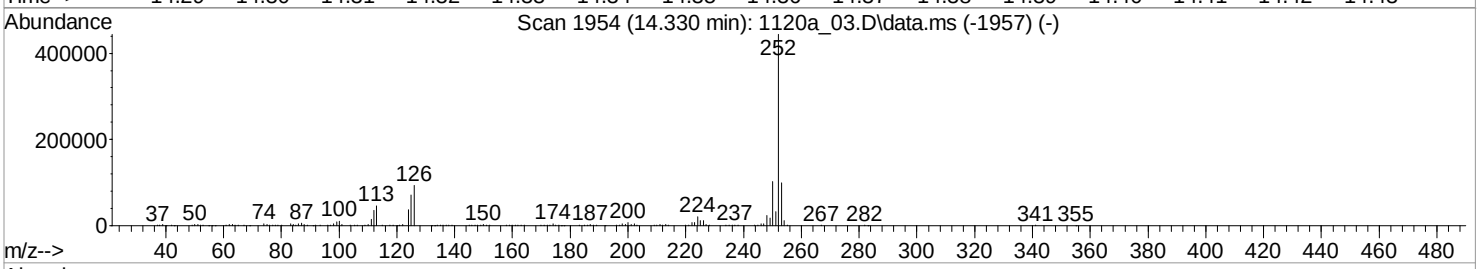
PDF Generated On: 11/21/2014 -- By: Chris McCord

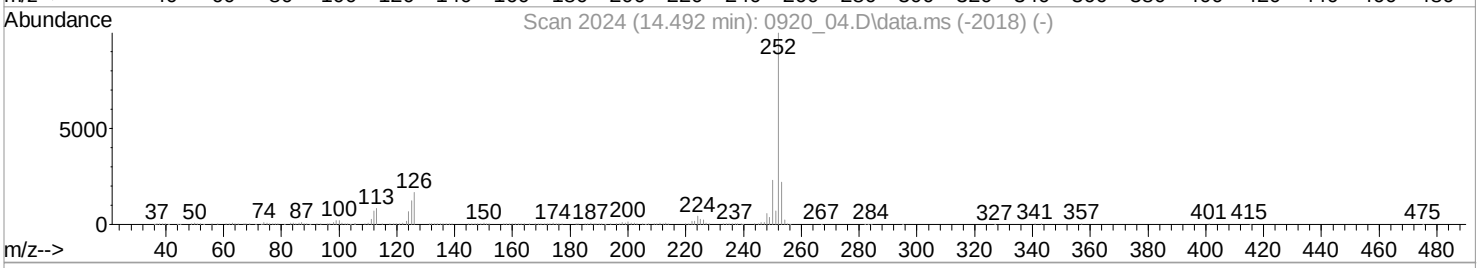
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\112014A\
Data File : 1120a 03.D
Acq On : 20 Nov 2014 7:15 pm
Operator : 377
Sample : MSTD SVMS 10K PPB 14K07412
Misc : 8270 PRIMARY CALIBRATION
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Nov 21 14:21:12 2014
Quant Method : C:\msdchem\1\methods\S819K21N.M
Quant Title : 8270 BNA
QLast Update : Fri Nov 21 14:21:01 2014
Response via : Initial Calibration







TIC: 1120a_03.D\data.ms

(89) Benzo(b)fluoranthene (MT)

14.330min (0.000) 10001.5638138 ppb

Qvalue = 100

response 831431

Ion	Exp%	Act%
252.00	100	100
253.00	22.10	22.06
126.00	20.10	20.09
113.00	9.60	9.60

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\112014A\
Data File : 1120a 04.D
Acq On : 20 Nov 2014 7:39 pm
Operator : 377
Sample : STD SVMS 200 PPB 14K07412
Misc : 8270 PRIMARY CALIBRATION
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Nov 21 14:34:12 2014
Quant Method : C:\msdchem\1\methods\S819K21N.M
Quant Title : 8270 BNA
QLast Update : Fri Nov 21 14:21:01 2014
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 1,4-Dichlorobenzene-d4	5.384	152	131937	8000.0000000 ppb	0.00
22) Naphthalene-d8	6.654	136	563771	8000.0000000 ppb	0.00
40) Acenaphthene-d10	8.536	164	348832	8000.0000000 ppb	0.00
64) Phenanthrene-d10	10.160	188	600150	8000.0000000 ppb	0.00
78) Chrysene-d12	13.042	240	593506	8000.0000000 ppb	0.00
88) Perylene-d12	14.883	264	643223	8000.0000000 ppb	0.00
System Monitoring Compounds					
4) 2-Fluorophenol	4.260	112	3742	195.1816379 ppb	0.00
Spiked Amount 20.000	Range 10 - 78		Recovery = 975.91%#		
7) Phenol-d5	4.995	99	4581	182.6214266 ppb	0.00
Spiked Amount 20.000	Range 5 - 70		Recovery = 913.11%#		
23) Nitrobenzene-d5	5.913	82	3943m	174.8676129 ppb	0.00
Spiked Amount 10.000	Range 22 - 123		Recovery = 1748.68%#		
44) 2-Fluorobiphenyl	7.795	172	9480	192.3848922 ppb	0.00
Spiked Amount 10.000	Range 30 - 131		Recovery = 1923.85%#		
67) 2,4,6-Tribromophenol	9.389	330	980	148.9091106 ppb	0.00
Spiked Amount 20.000	Range 11 - 130		Recovery = 744.55%#		
81) p-Terphenyl-d14	11.871	244	10998	185.5381823 ppb	0.00
Spiked Amount 10.000	Range 29 - 137		Recovery = 1855.38%#		
Target Compounds					Qvalue
2) Pyridine	3.331	79	4220	162.6349893 ppb	90
3) N-Nitrosodimethylamine	3.290	74	1901	146.7818723 ppb	91
5) Aniline	5.072	66	2189	179.5668496 ppb #	88
6) bis(2-Chloroethyl)ether	5.119	63	3314	187.7844094 ppb #	85
8) Phenol	5.007	94	4808	185.5894121 ppb	92
9) Benzaldehyde	0.000		0	N.D.	
10) 2-Chlorophenol	5.184	128	4061	175.7902725 ppb	93
11) n-Decane	5.207	55	989m	199.4688666 ppb	
12) 1,3-Dichlorobenzene	5.337	146	4934	195.8563752 ppb	95
13) 1,4-Dichlorobenzene	5.401	146	5041m	198.2591492 ppb	
14) Benzyl Alcohol	5.490	79	3151	175.6209245 ppb	93
15) 1,2-Dichlorobenzene	5.548	146	4675	190.4867332 ppb	98
16) bis(2-Chloroisopropyl)...	5.625	121	1490	200.4902121 ppb	98
17) 2-Methylphenol	5.578	108	3562	173.8283924 ppb	95
18) Hexachloroethane	5.884	117	2171	197.4631762 ppb	95
19) N-Nitrosodi-n-propylamine	5.742	70	2489	178.2836313 ppb	97
20) 3&4-Methyl phenol	5.719	107	4015	178.2434884 ppb	91
21) Acetophenone	0.000		0	N.D.	
24) Nitrobenzene	5.931	77	4360	192.3795917 ppb	94
25) Isophorone	6.166	82	7054	175.7362667 ppb	99
26) 2-Nitrophenol	6.254	139	1657	146.2012710 ppb	86
27) 2,4-Dimethylphenol	6.266	107	4028	185.1625671 ppb	94
28) bis(2-Chlorethoxy)methane	6.372	93	5198	190.7535820 ppb	98
29) 2,4-Dichlorophenol	6.489	162	3180	175.6732602 ppb	95
30) Benzoic Acid	0.000		0	N.D.	
31) 1,2,4-Trichlorobenzene	6.589	180	3890	191.5104973 ppb	96
32) Naphthalene	6.678	128	16818	241.1064796 ppb	96
33) 4-Chloroaniline	6.713	65	1620	192.6207118 ppb	93
34) Hexachloro-1,3-butadiene	6.801	225	2170	193.0194720 ppb	93
35) Caprolactam	0.000		0	N.D. d	
36) 4-Chloro-3-methylphenol	7.201	107	3360	177.1922144 ppb	96
37) 2-Methylnaphthalene	7.407	142	9270	193.2223430 ppb	98

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\112014A\
Data File : 1120a 04.D
Acq On : 20 Nov 2014 7:39 pm
Operator : 377
Sample : STD SVMS 200 PPB 14K07412
Misc : 8270 PRIMARY CALIBRATION
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Nov 21 14:34:12 2014
Quant Method : C:\msdchem\1\methods\S819K21N.M
Quant Title : 8270 BNA
QLast Update : Fri Nov 21 14:21:01 2014
Response via : Initial Calibration

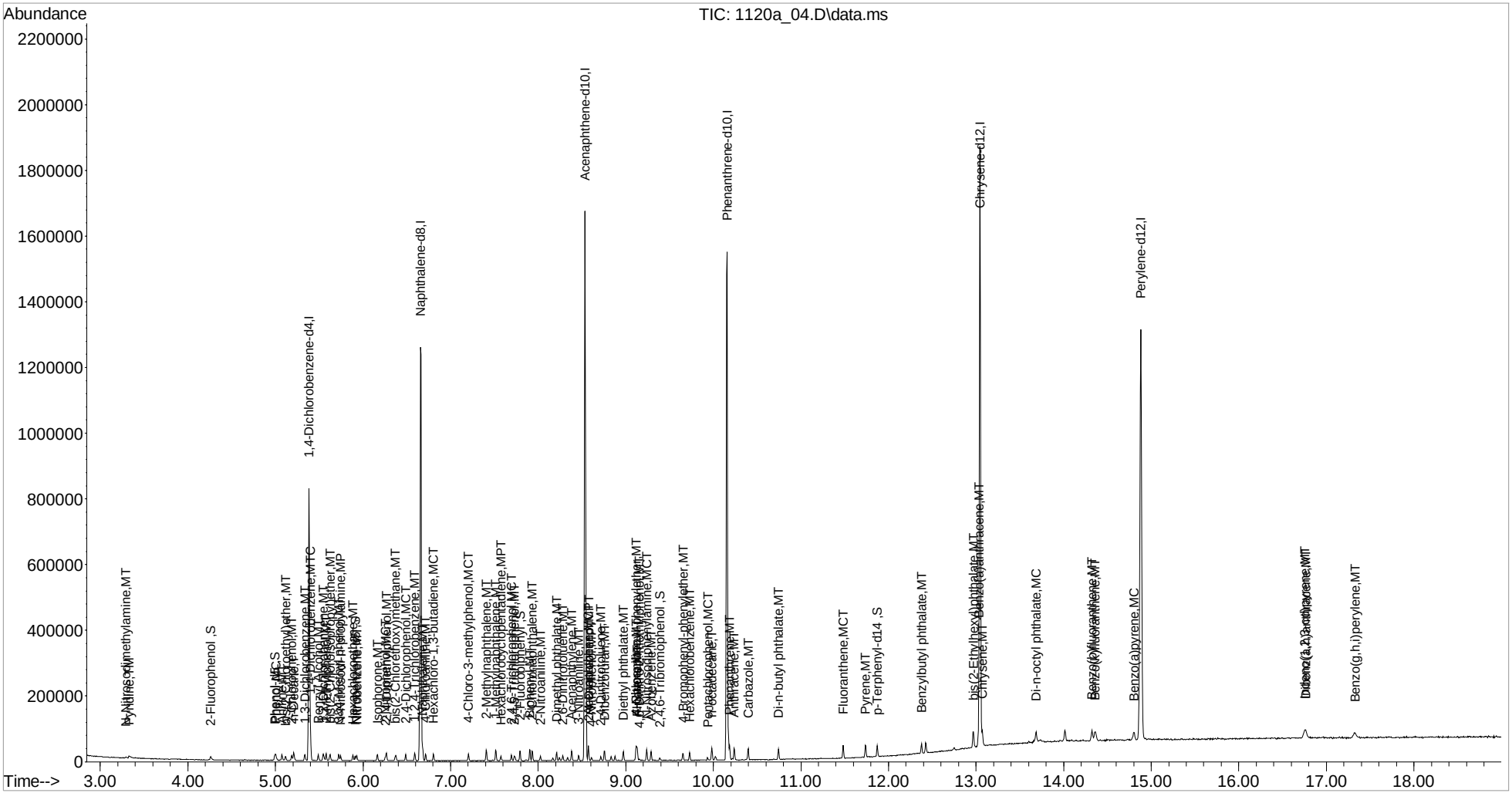
Compound	R.T.	QIon	Response	Conc Units		Dev(Min)
38) 1-Methylnaphthalene	7.513	142	8592	190.2129754 ppb		98
39) 1,2,4,5-Tetrachloroben...	0.000		0	N.D.		
41) Hexachlorocyclopentadiene	7.578	237	2146	184.7076408 ppb		93
42) 2,4,6-Trichlorophenol	7.695	196	2110	170.8844806 ppb		98
43) 2,4,5-Trichlorophenol	7.731	196	2180	159.7626151 ppb		94
45) Biphenyl	7.901	154	11021	195.7299472 ppb		95
46) 2-Chloronaphthalene	7.931	162	8182	188.5331884 ppb		95
47) 2-Nitroaniline	8.025	138	2270	155.1026143 ppb		98
48) Acenaphthylene	8.383	152	12091	174.1285866 ppb		97
49) Dimethyl phthalate	8.213	163	8913	178.5051460 ppb		99
50) 2,6-Dinitrotoluene	8.278	165	1683	145.4997749 ppb		85
51) 3-Nitroaniline	8.460	138	1891	139.3494846 ppb	#	85
52) Acenaphthene	8.572	153	9497	201.0673738 ppb		97
53) 2,4-Dinitrophenol	8.578	184	328	66.6081846 ppb	#	1
54) Dibenzofuran	8.760	168	11605	184.4641381 ppb		98
55) 2,4-Dinitrotoluene	8.713	165	1862	123.7264022 ppb		88
56) 2,3,4,6-Tetrachlorophenol	0.000		0	N.D. d		
57) 4-Nitrophenol	8.607	139	1302	123.4195346 ppb		90
58) Fluorene	9.130	166	9828	184.9079400 ppb		100
59) 4-Chlorophenyl-phenyle...	9.119	204	4277	178.2068100 ppb		97
60) Diethyl phthalate	8.972	149	10183	191.1060235 ppb		99
61) 4-Nitroaniline	9.119	138	1972	147.8332786 ppb		98
62) Azobenzene	9.289	77	9353	168.9225239 ppb		94
63) Atrazine	0.000		0	N.D.		
65) 4,6-Dinitro-2-methylph...	9.154	198	574	79.8596488 ppb	#	36
66) N-Nitrosodiphenylamine	9.236	169	7790	177.9208248 ppb		97
68) 4-Bromophenyl-phenylether	9.654	248	2626	195.5574029 ppb		89
69) Hexachlorobenzene	9.730	284	3209	213.7880533 ppb		87
70) n-octadecane	9.983	55	1930	194.8035269 ppb		93
71) Pentachlorophenol	9.936	266	994	128.1487949 ppb		87
72) Phenanthrene	10.183	178	15567	200.3530760 ppb		99
73) Anthracene	10.236	178	14670	186.4582928 ppb		98
74) Carbazole	10.401	167	12920	174.6713057 ppb		99
75) Di-n-butyl phthalate	10.742	149	15869	164.6057350 ppb		99
76) 2-nitrodiphenylamine	0.000		0	N.D.		
77) Fluoranthene	11.483	202	14800	172.5961807 ppb		96
79) Benzidine	0.000		0	N.D. d		
80) Pyrene	11.736	202	15597	181.4064392 ppb		98
82) Benzylbutyl phthalate	12.377	149	7043	166.0565387 ppb		98
83) 3,3-Dichlorobenzidine	0.000		0	N.D.		
84) Benzo(a)anthracene	13.030	228	16230	199.3885342 ppb		94
85) Chrysene	13.071	228	14479	193.0959537 ppb		99
86) bis(2-Ethylhexyl)phtha...	12.971	149	14987m	235.5894378 ppb		
87) Di-n-octyl phthalate	13.689	149	14821m	137.0237483 ppb		
89) Benzo(b)fluoranthene	14.324	252	14295	174.8955721 ppb		98
90) Benzo(k)fluoranthene	14.360	252	14568	174.0354051 ppb		98
91) Benzo(a)pyrene	14.801	252	13191	165.7522489 ppb		95
92) Indeno(1,2,3-cd)pyrene	16.753	276	13829	159.6526774 ppb		96
93) Dibenz(a,h)anthracene	16.765	278	11817	160.7946725 ppb		96
94) Benzo(g,h,i)perylene	17.330	276	12347	170.4355055 ppb		97

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\112014A\
Data File : 1120a 04.D
Acq On : 20 Nov 2014 7:39 pm
Operator : 377
Sample : STD SVMS 200 PPB 14K07412
Misc : 8270 PRIMARY CALIBRATION
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Nov 21 14:34:12 2014
Quant Method : C:\msdchem\1\methods\S819K21N.M
Quant Title : 8270 BNA
QLast Update : Fri Nov 21 14:21:01 2014
Response via : Initial Calibration

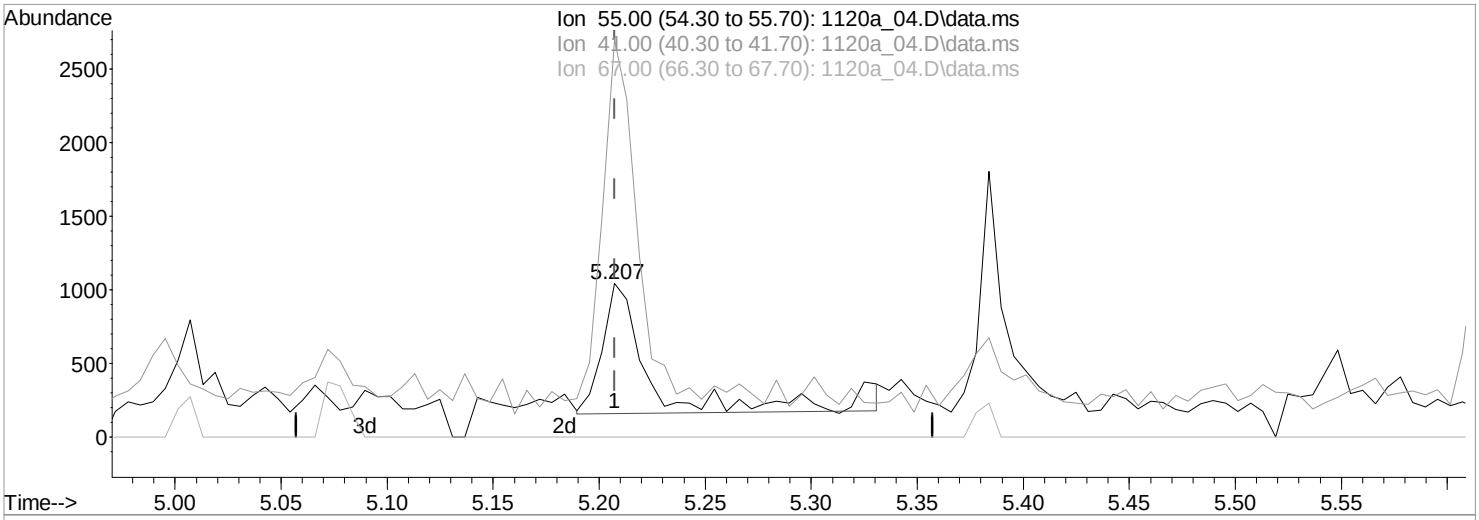


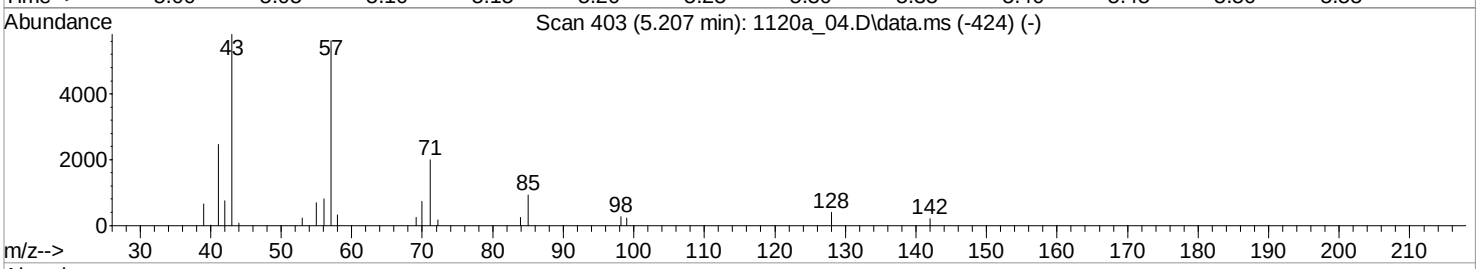
PDF Generated On: 11/21/2014 -- By: Chris McCord

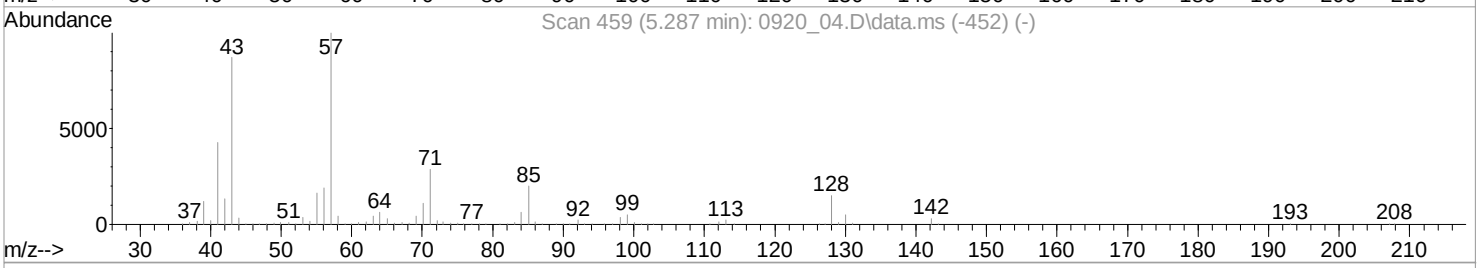
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\112014A\
Data File : 1120a 04.D
Acq On : 20 Nov 2014 7:39 pm
Operator : 377
Sample : STD SVMS 200 PPB 14K07412
Misc : 8270 PRIMARY CALIBRATION
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Nov 21 14:21:19 2014
Quant Method : C:\msdchem\1\methods\S819K21N.M
Quant Title : 8270 BNA
QLast Update : Fri Nov 21 14:21:01 2014
Response via : Initial Calibration







TIC: 1120a_04.D\data.ms

(11) n-Decane (T)

5.207min (-0.000) 285.7910859 ppb

Qvalue = 93

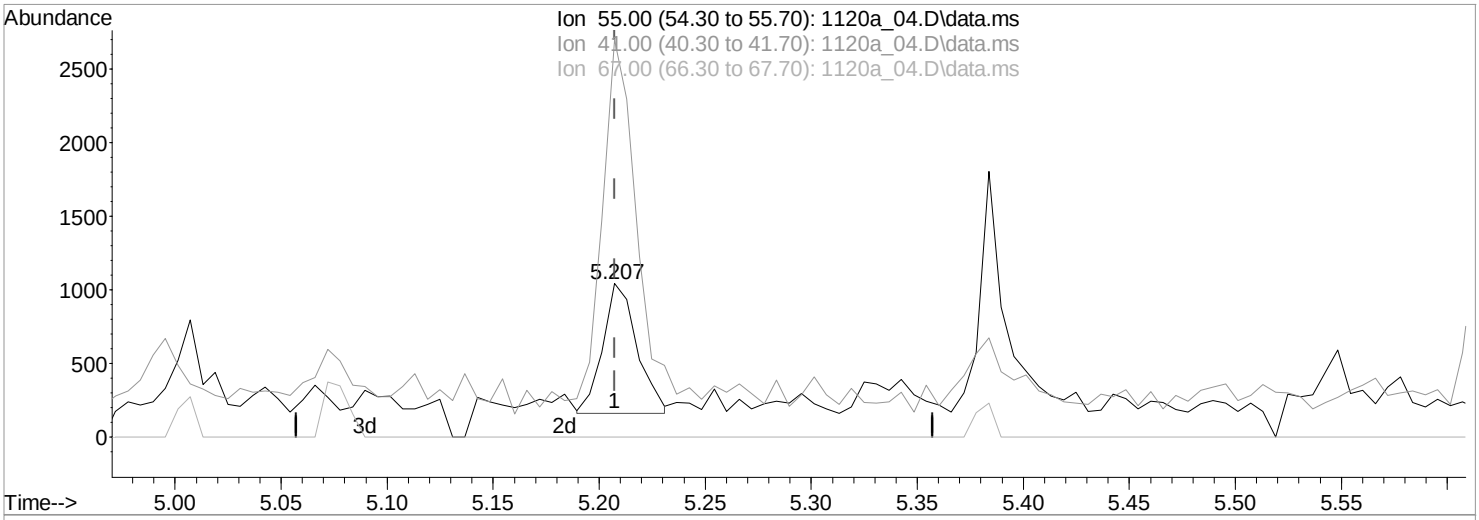
response 1417

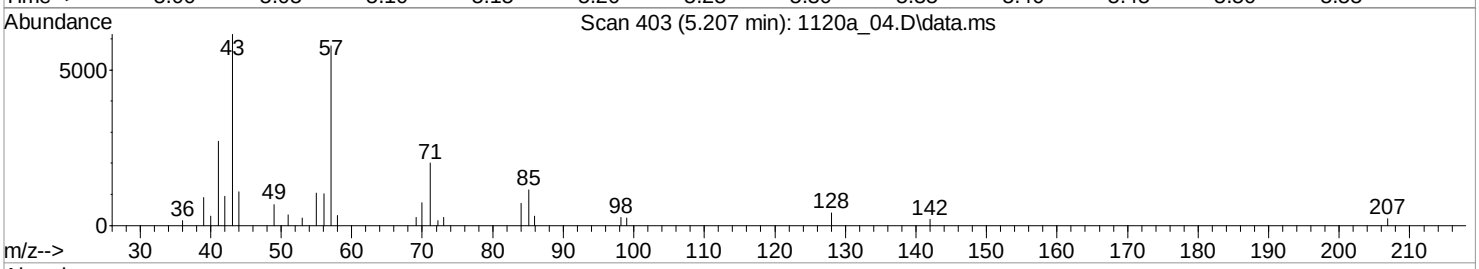
Ion	Exp%	Act%
55.00	100	100
41.00	297.10	284.66
67.00	4.70	0.00
0.00	0.00	0.00

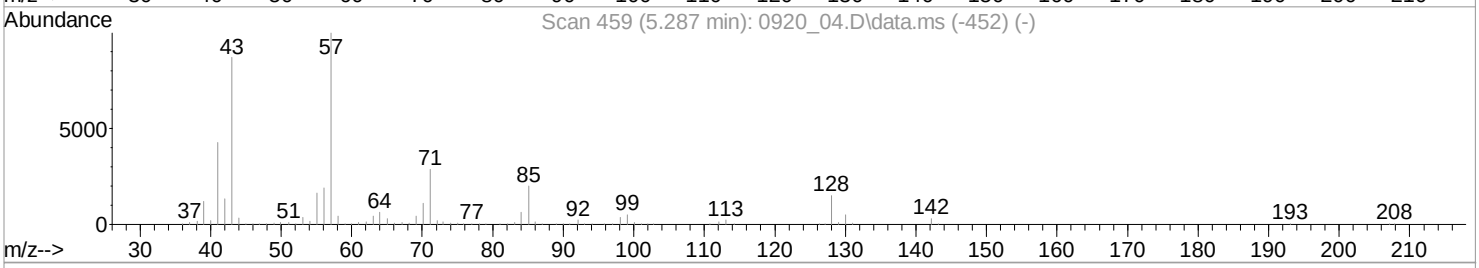
Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\data\112014A\
Data File : 1120a 04.D
Acq On    : 20 Nov 2014   7:39 pm
Operator  : 377
Sample    : STD SVMS 200 PPB 14K07412
Misc      : 8270 PRIMARY CALIBRATION
ALS Vial  : 4   Sample Multiplier: 1

Quant Time: Nov 21 14:21:19 2014
Quant Method : C:\msdchem\1\methods\S819K21N.M
Quant Title  : 8270 BNA
QLast Update : Fri Nov 21 14:21:01 2014
Response via : Initial Calibration
```







TIC: 1120a_04.D\data.ms

(11) n-Decane (T)

5.207min (-0.000) 199.4688666 ppb m

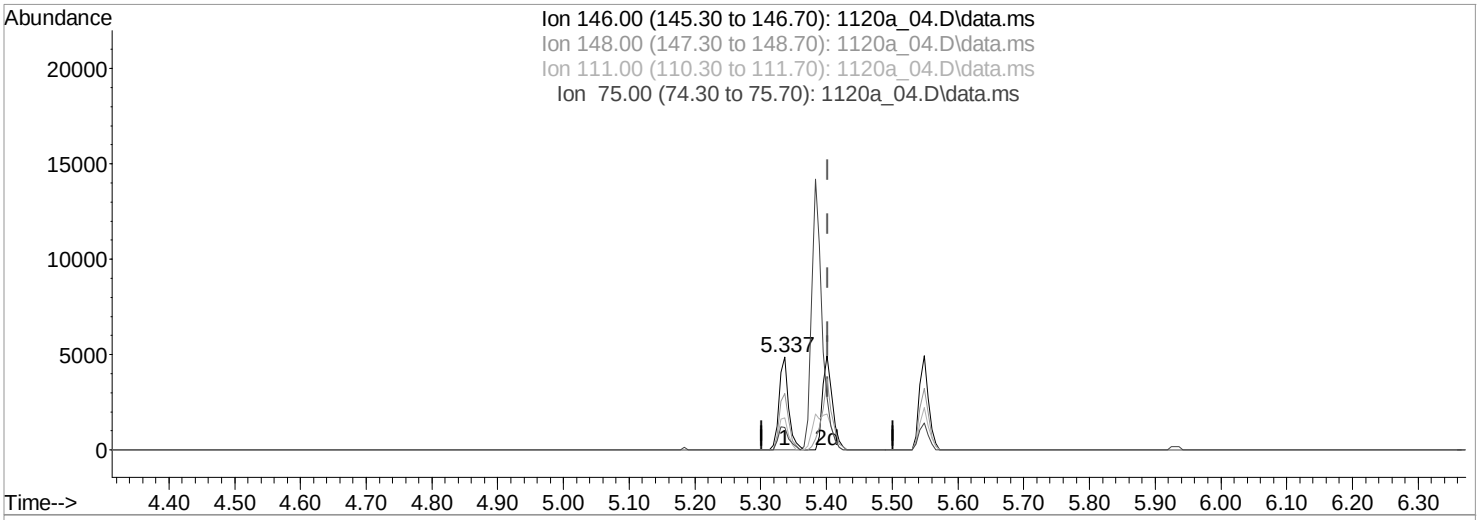
response 989

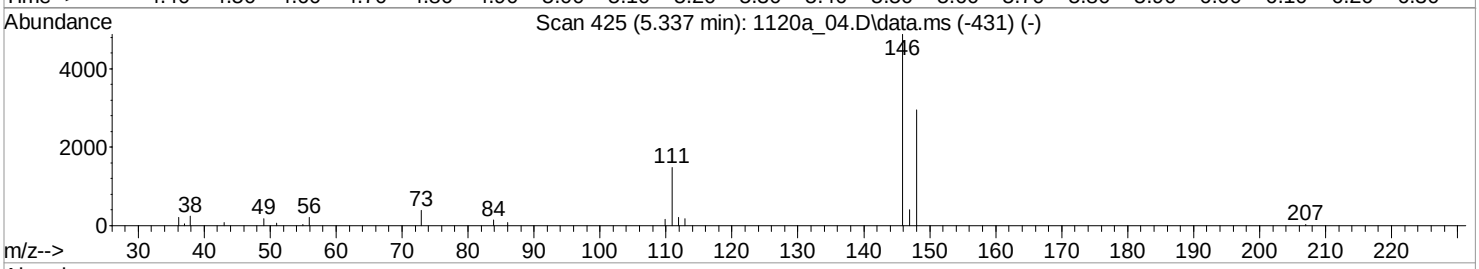
Ion	Exp%	Act%
55.00	100	100
41.00	297.10	258.32#
67.00	4.70	0.00
0.00	0.00	0.00

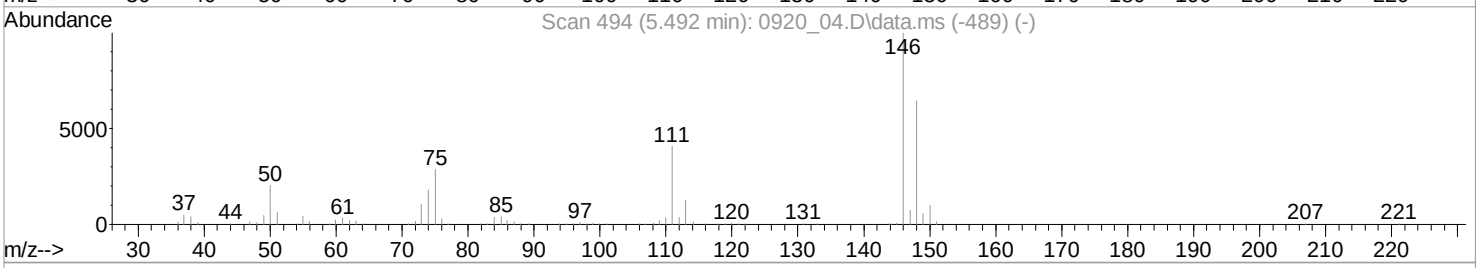
Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\data\112014A\
Data File : 1120a 04.D
Acq On    : 20 Nov 2014   7:39 pm
Operator  : 377
Sample    : STD SVMS 200 PPB 14K07412
Misc      : 8270 PRIMARY CALIBRATION
ALS Vial  : 4   Sample Multiplier: 1

Quant Time: Nov 21 14:21:19 2014
Quant Method : C:\msdchem\1\methods\S819K21N.M
Quant Title  : 8270 BNA
QLast Update : Fri Nov 21 14:21:01 2014
Response via : Initial Calibration
```







TIC: 1120a_04.D\data.ms

(13) 1,4-Dichlorobenzene (MTC)

5.337min (-0.065) 194.0509110 ppb

Qvalue = 94

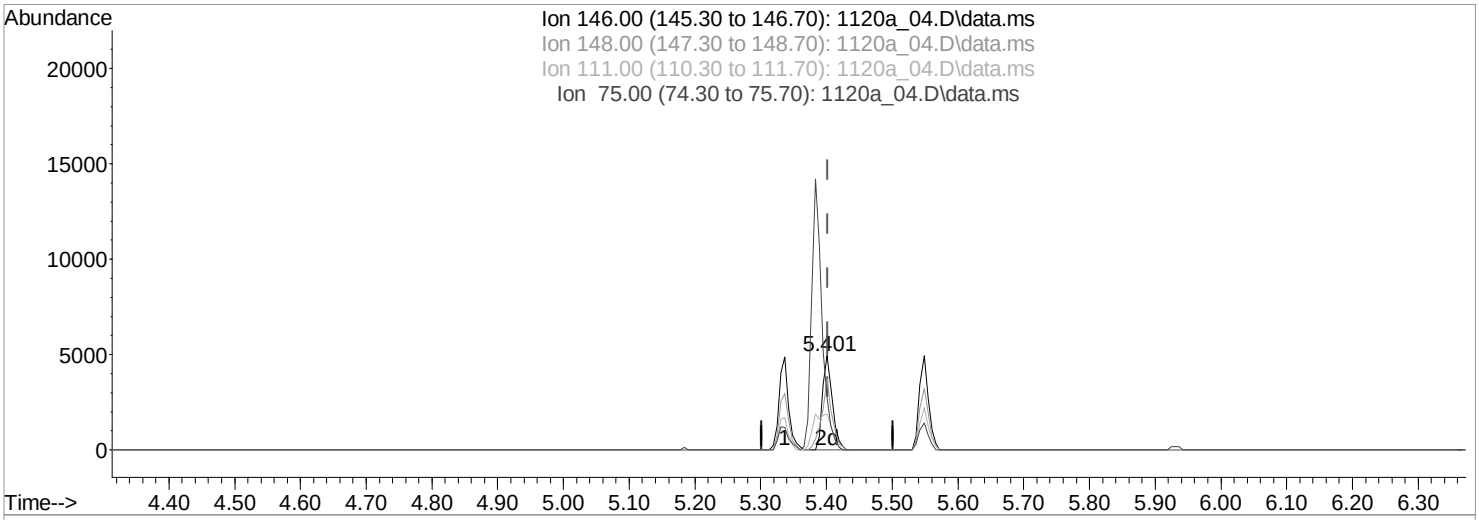
response 4934

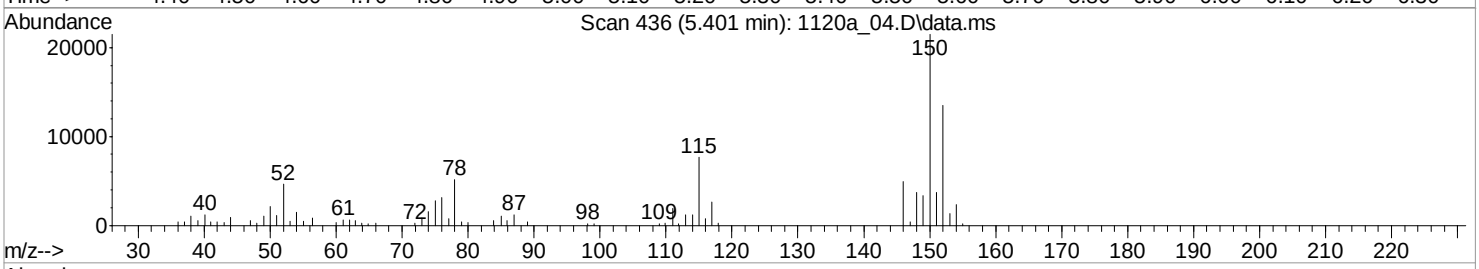
Ion	Exp%	Act%
146.00	100	100
148.00	63.80	60.32
111.00	39.00	34.51
75.00	28.30	23.93

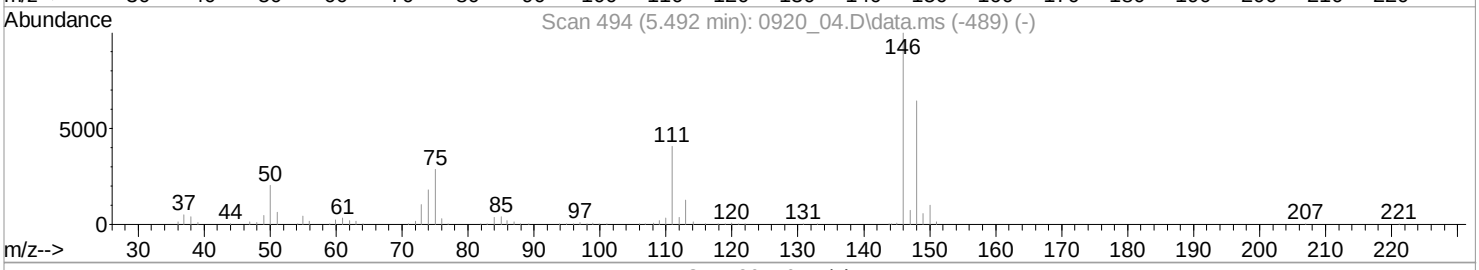
Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\data\112014A\
Data File : 1120a 04.D
Acq On    : 20 Nov 2014   7:39 pm
Operator  : 377
Sample    : STD SVMS 200 PPB 14K07412
Misc      : 8270 PRIMARY CALIBRATION
ALS Vial  : 4   Sample Multiplier: 1

Quant Time: Nov 21 14:21:19 2014
Quant Method : C:\msdchem\1\methods\S819K21N.M
Quant Title  : 8270 BNA
QLast Update : Fri Nov 21 14:21:01 2014
Response via : Initial Calibration
```







TIC: 1120a_04.D\data.ms

(13) 1,4-Dichlorobenzene (MTC)

5.401min (-0.000) 198.2591492 ppb m

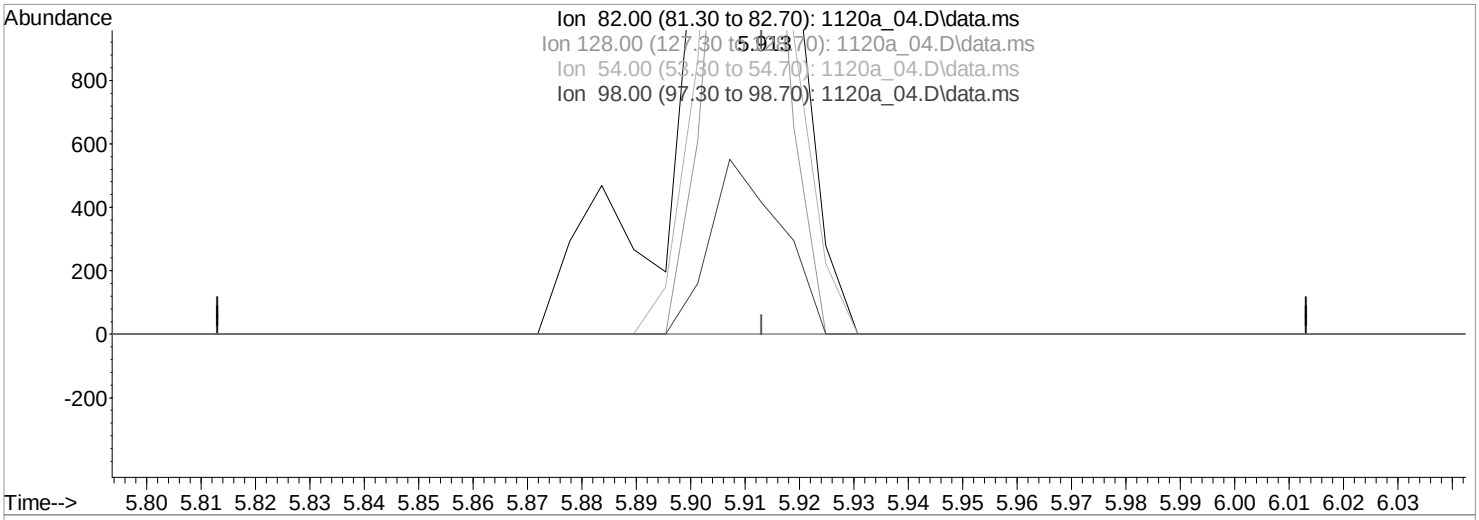
response 5041

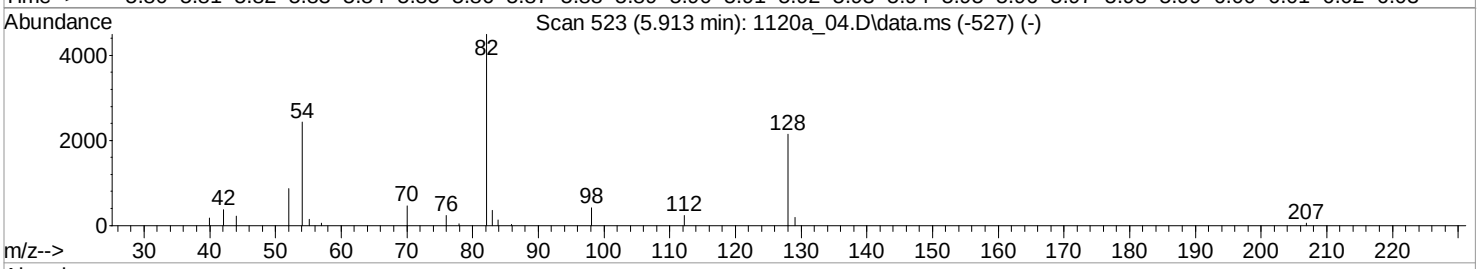
Ion	Exp%	Act%
146.00	100	100
148.00	63.80	75.49
111.00	39.00	38.51
75.00	28.30	55.84#

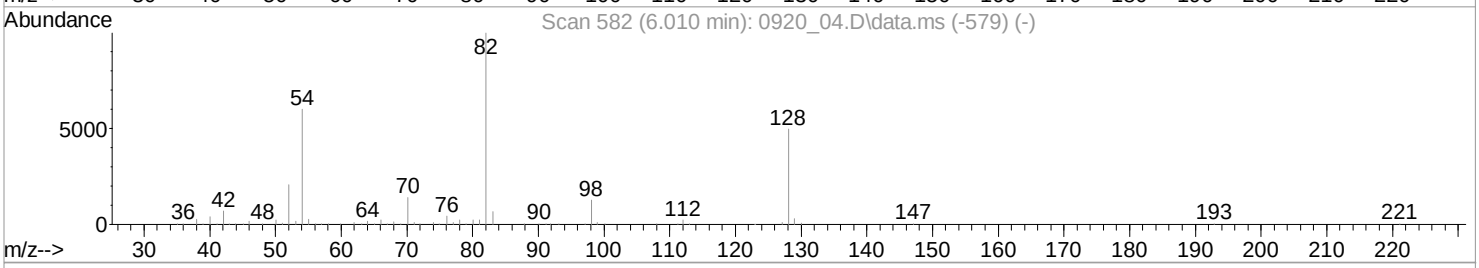
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\112014A\
Data File : 1120a 04.D
Acq On : 20 Nov 2014 7:39 pm
Operator : 377
Sample : STD SVMS 200 PPB 14K07412
Misc : 8270 PRIMARY CALIBRATION
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Nov 21 14:21:19 2014
Quant Method : C:\msdchem\1\methods\S819K21N.M
Quant Title : 8270 BNA
QLast Update : Fri Nov 21 14:21:01 2014
Response via : Initial Calibration







TIC: 1120a_04.D\data.ms

(23) Nitrobenzene-d5 (S)

5.913min (-0.000) 194.1150246 ppb

Qvalue = 96

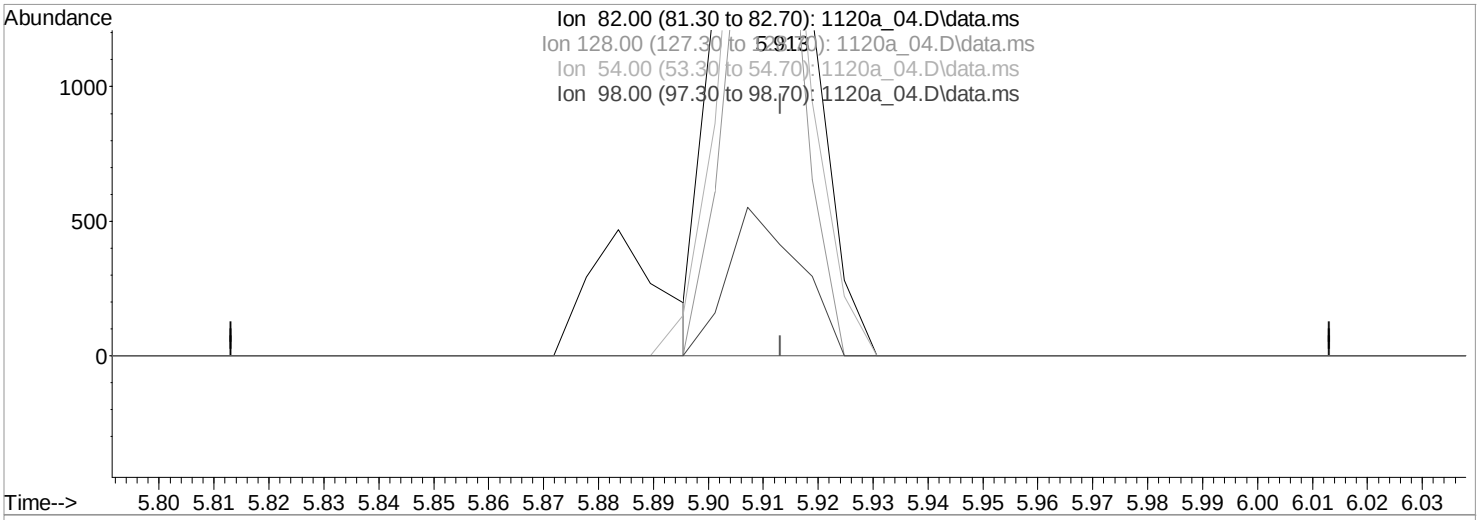
response 4377

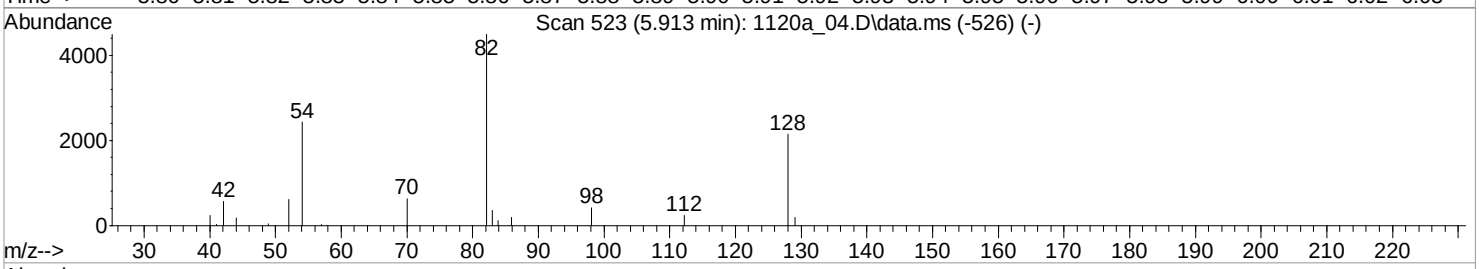
Ion	Exp%	Act%
82.00	100	100
128.00	49.50	47.68
54.00	57.40	54.12
98.00	11.70	9.19

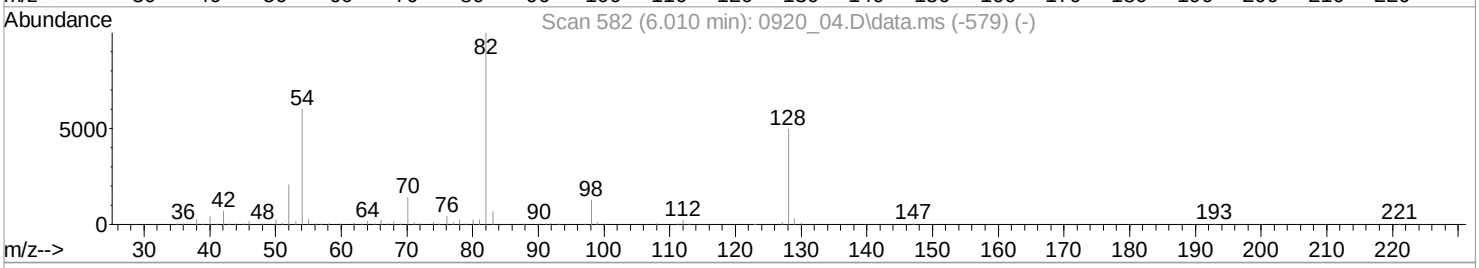
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\112014A\
Data File : 1120a 04.D
Acq On : 20 Nov 2014 7:39 pm
Operator : 377
Sample : STD SVMS 200 PPB 14K07412
Misc : 8270 PRIMARY CALIBRATION
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Nov 21 14:21:19 2014
Quant Method : C:\msdchem\1\methods\S819K21N.M
Quant Title : 8270 BNA
QLast Update : Fri Nov 21 14:21:01 2014
Response via : Initial Calibration







TIC: 1120a_04.D\data.ms

(23) Nitrobenzene-d5 (S)

5.913min (-0.000) 174.8676129 ppb m

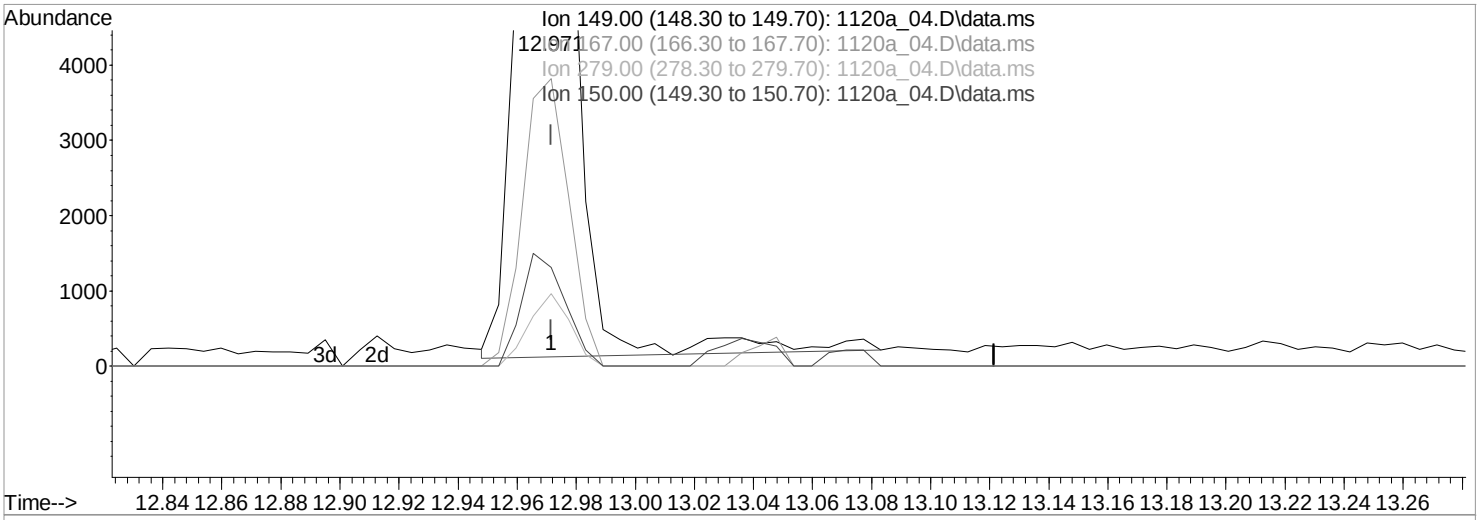
response 3943

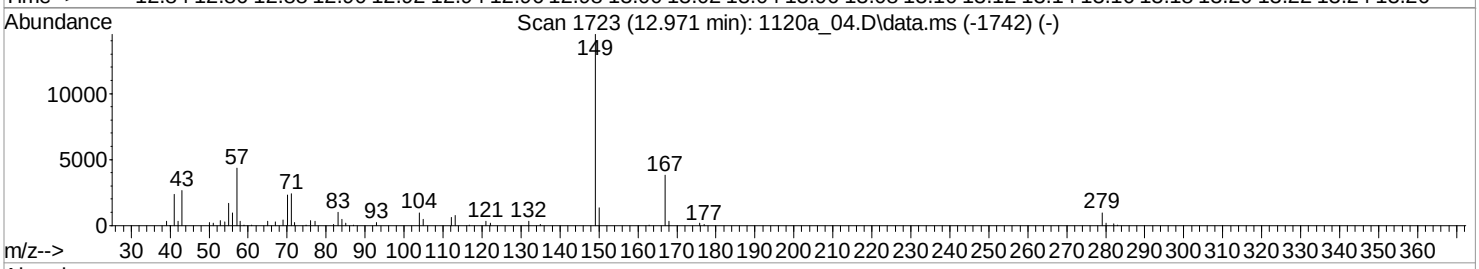
Ion	Exp%	Act%
82.00	100	100
128.00	49.50	47.68
54.00	57.40	54.12
98.00	11.70	9.19

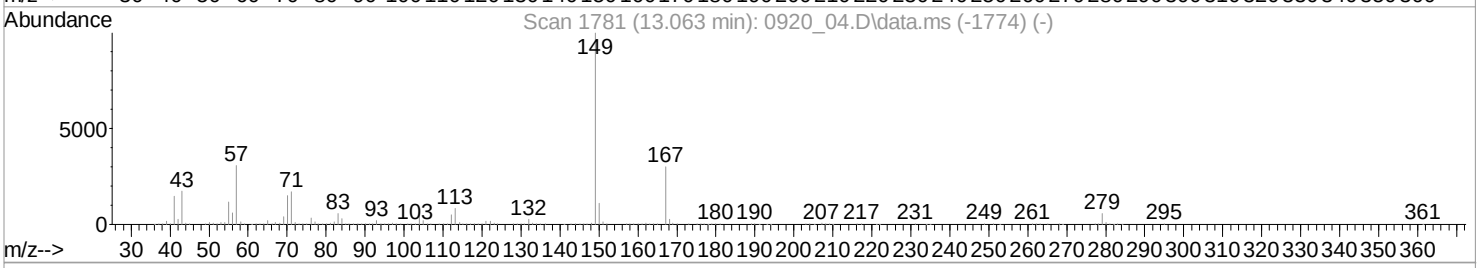
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\112014A\
Data File : 1120a 04.D
Acq On : 20 Nov 2014 7:39 pm
Operator : 377
Sample : STD SVMS 200 PPB 14K07412
Misc : 8270 PRIMARY CALIBRATION
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Nov 21 14:21:19 2014
Quant Method : C:\msdchem\1\methods\S819K21N.M
Quant Title : 8270 BNA
QLast Update : Fri Nov 21 14:21:01 2014
Response via : Initial Calibration







TIC: 1120a_04.D\data.ms

(86) bis(2-Ethylhexyl)phthalate (MT)

12.971min (-0.000) 247.5363233 ppb

Qvalue = 94

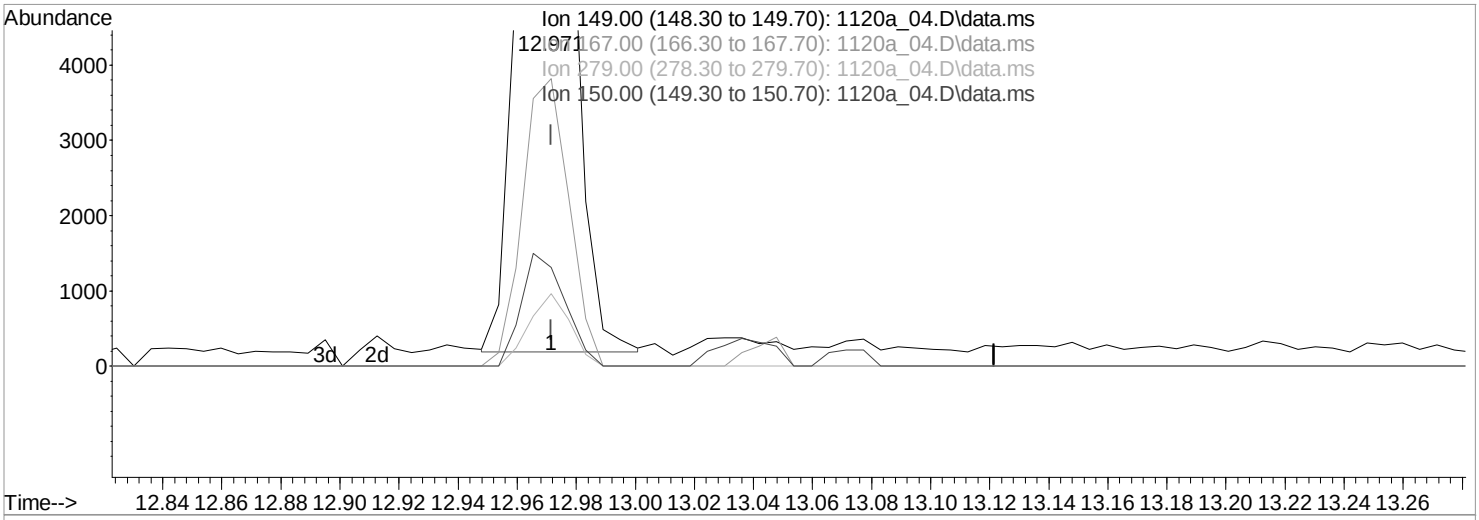
response 15747

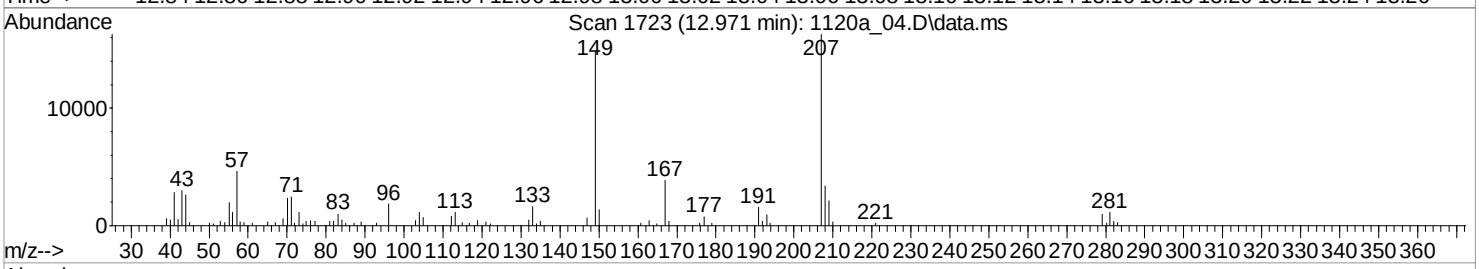
Ion	Exp%	Act%
149.00	100	100
167.00	29.60	26.32
279.00	6.10	6.66
150.00	11.40	9.05

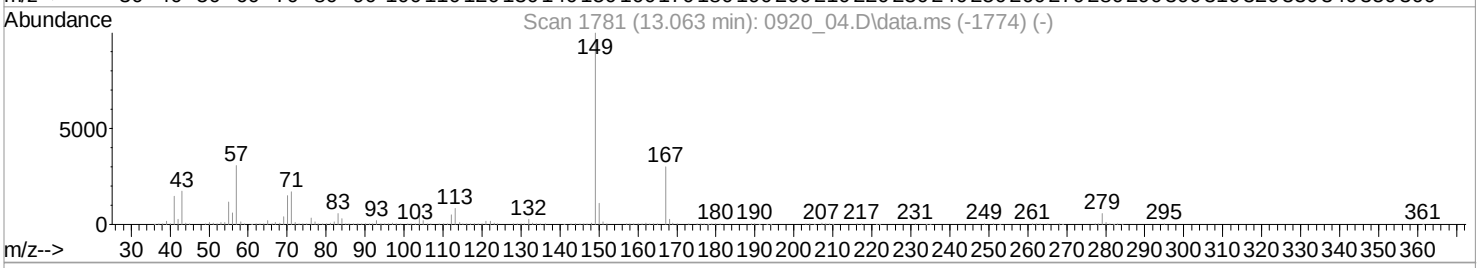
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\112014A\
Data File : 1120a 04.D
Acq On : 20 Nov 2014 7:39 pm
Operator : 377
Sample : STD SVMS 200 PPB 14K07412
Misc : 8270 PRIMARY CALIBRATION
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Nov 21 14:21:19 2014
Quant Method : C:\msdchem\1\methods\S819K21N.M
Quant Title : 8270 BNA
QLast Update : Fri Nov 21 14:21:01 2014
Response via : Initial Calibration







TIC: 1120a_04.D\data.ms

(86) bis(2-Ethylhexyl)phthalate (MT)

12.971min (-0.000) 235.5894378 ppb m

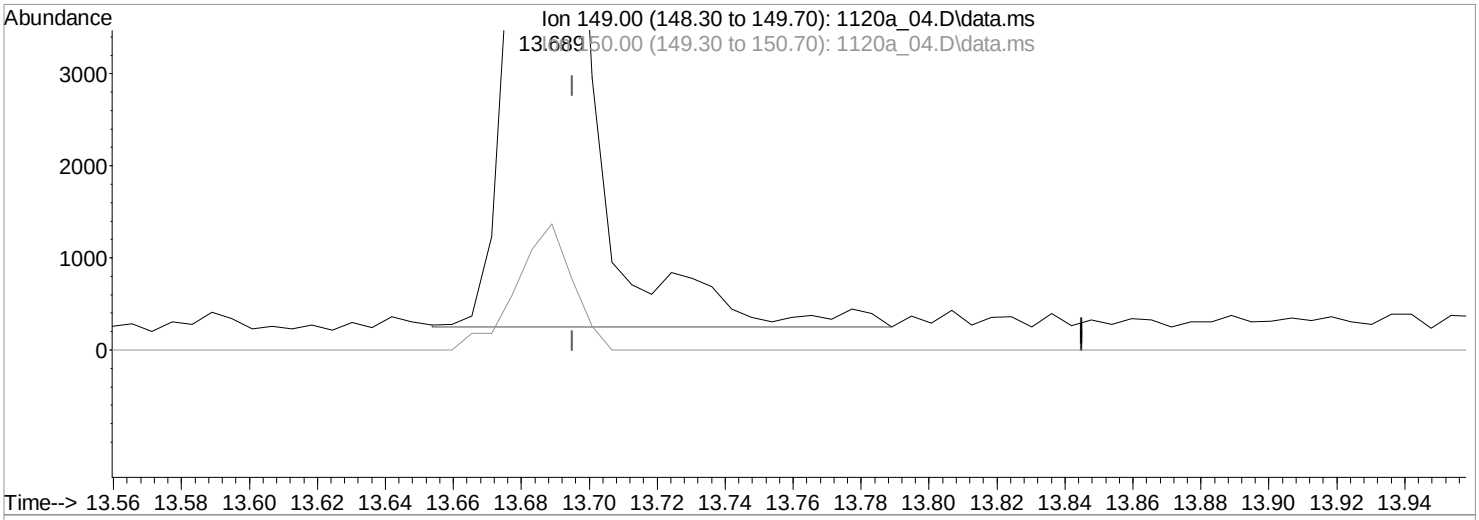
response 14987

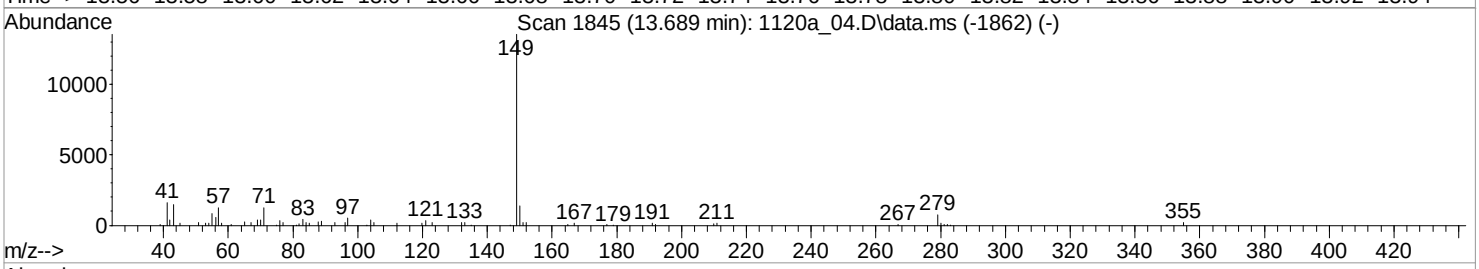
Ion	Exp%	Act%
149.00	100	100
167.00	29.60	25.93
279.00	6.10	6.56
150.00	11.40	8.91

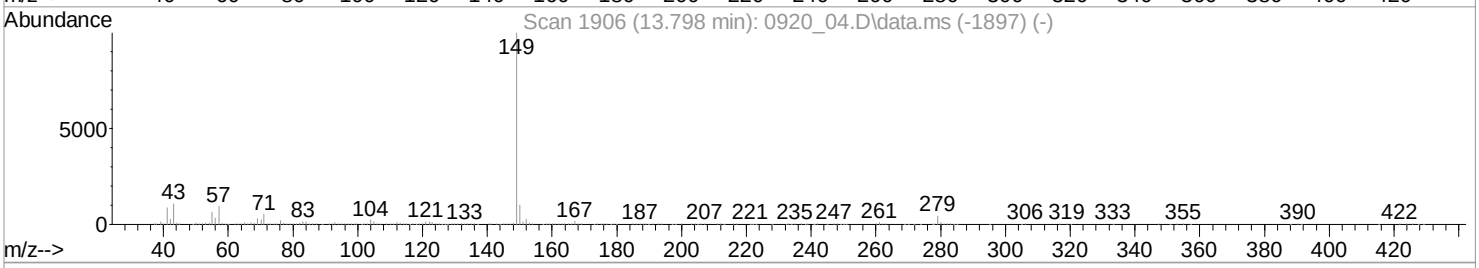
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\112014A\
Data File : 1120a 04.D
Acq On : 20 Nov 2014 7:39 pm
Operator : 377
Sample : STD SVMS 200 PPB 14K07412
Misc : 8270 PRIMARY CALIBRATION
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Nov 21 14:29:12 2014
Quant Method : C:\msdchem\1\methods\S819K21N.M
Quant Title : 8270 BNA
QLast Update : Fri Nov 21 14:21:01 2014
Response via : Initial Calibration







TIC: 1120a_04.D\data.ms

(87) Di-n-octyl phthalate (MC)

13.689min (-0.006) 146.1488032 ppb

Qvalue = 99

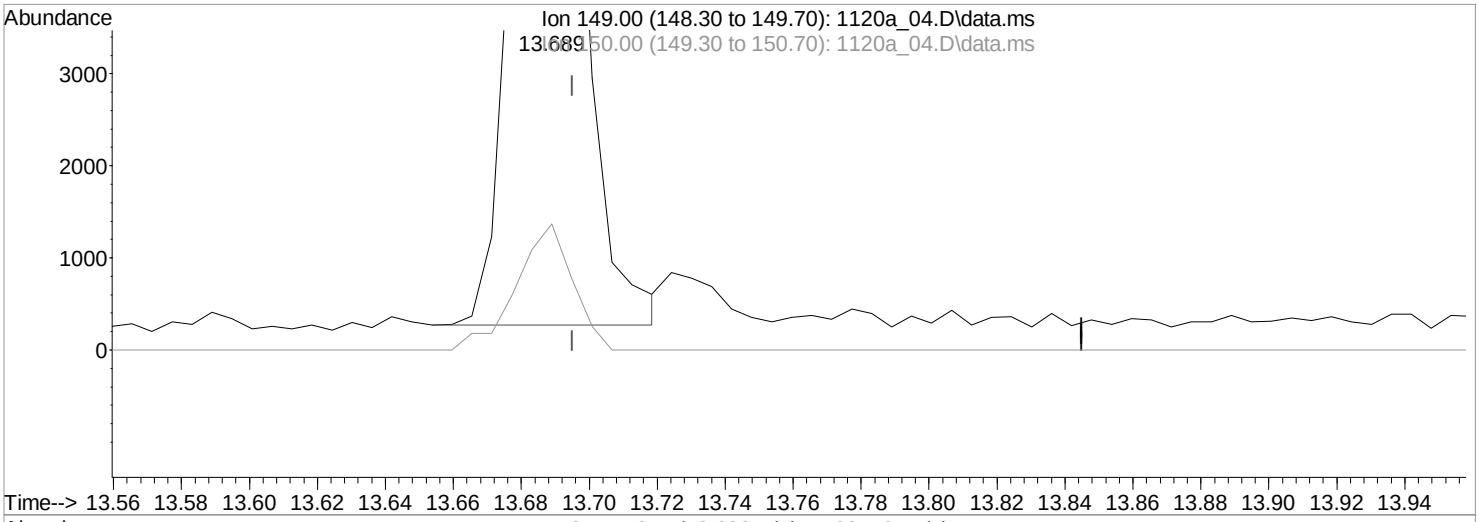
response 15808

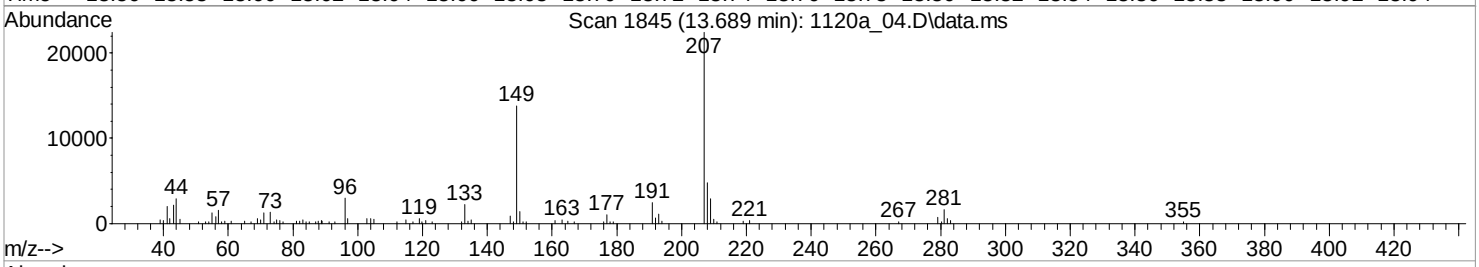
Ion	Exp%	Act%
149.00	100	100
150.00	9.70	10.12
0.00	0.00	0.00
0.00	0.00	0.00

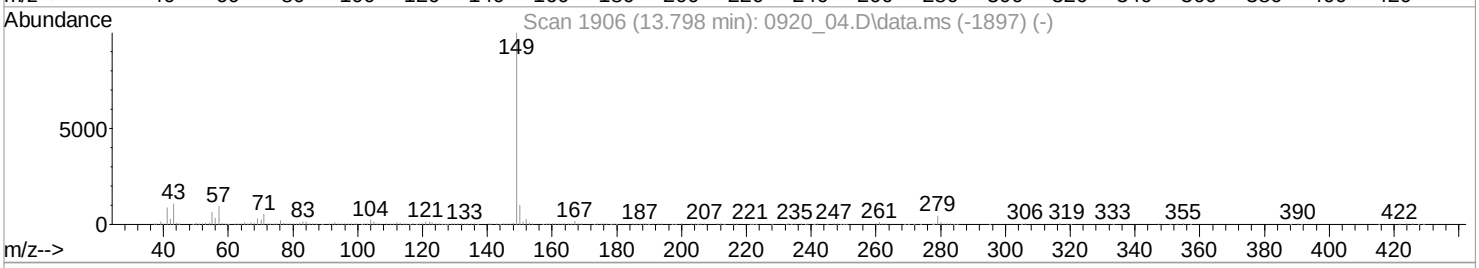
Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\data\112014A\
Data File : 1120a 04.D
Acq On    : 20 Nov 2014   7:39 pm
Operator  : 377
Sample    : STD SVMS 200 PPB 14K07412
Misc      : 8270 PRIMARY CALIBRATION
ALS Vial  : 4   Sample Multiplier: 1

Quant Time: Nov 21 14:29:12 2014
Quant Method : C:\msdchem\1\methods\S819K21N.M
Quant Title  : 8270 BNA
QLast Update : Fri Nov 21 14:21:01 2014
Response via : Initial Calibration
```







TIC: 1120a_04.D\data.ms

(87) Di-n-octyl phthalate (MC)

13.689min (-0.006) 137.0237483 ppb m

response 14821

Ion	Exp%	Act%
149.00	100	100
150.00	9.70	9.94
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\112014A\
Data File : 1120a 05.D
Acq On : 20 Nov 2014 8:03 pm
Operator : 377
Sample : STD SVMS 1K PPB 14K07412
Misc : 8270 PRIMARY CALIBRATION
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Nov 21 14:33:12 2014
Quant Method : C:\msdchem\1\methods\S819K21N.M
Quant Title : 8270 BNA
QLast Update : Fri Nov 21 14:21:01 2014
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 1,4-Dichlorobenzene-d4	5.384	152	123774	8000.0000000 ppb	0.00
22) Naphthalene-d8	6.654	136	540550	8000.0000000 ppb	0.00
40) Acenaphthene-d10	8.537	164	331752	8000.0000000 ppb	0.00
64) Phenanthrene-d10	10.160	188	584497	8000.0000000 ppb	0.00
78) Chrysene-d12	13.042	240	580286	8000.0000000 ppb	0.00
88) Perylene-d12	14.883	264	624268	8000.0000000 ppb	0.00
System Monitoring Compounds					
4) 2-Fluorophenol	4.260	112	19830	1102.5418104 ppb	0.00
Spiked Amount 20.000	Range 10 - 78		Recovery = 5512.71%#		
7) Phenol-d5	4.996	99	26002	1104.9315429 ppb	0.00
Spiked Amount 20.000	Range 5 - 70		Recovery = 5524.66%#		
23) Nitrobenzene-d5	5.913	82	23091m	1068.0515300 ppb	0.00
Spiked Amount 10.000	Range 22 - 123		Recovery = 10680.52%#		
44) 2-Fluorobiphenyl	7.790	172	53731	1146.5429243 ppb	0.00
Spiked Amount 10.000	Range 30 - 131		Recovery = 11465.43%#		
67) 2,4,6-Tribromophenol	9.389	330	6280	979.7885540 ppb	0.00
Spiked Amount 20.000	Range 11 - 130		Recovery = 4898.94%#		
81) p-Terphenyl-d14	11.872	244	66569	1148.6154036 ppb	0.00
Spiked Amount 10.000	Range 29 - 137		Recovery = 11486.15%#		
Target Compounds					Qvalue
2) Pyridine	3.319	79	27494	1129.4750488 ppb	97
3) N-Nitrosodimethylamine	3.290	74	11940	982.7245635 ppb	96
5) Aniline	5.072	66	12622	1103.6865654 ppb	99
6) bis(2-Chloroethyl)ether	5.119	63	18219	1100.4460171 ppb	97
8) Phenol	5.007	94	26714	1099.1699259 ppb	97
9) Benzaldehyde	0.000		0	N.D. d	
10) 2-Chlorophenol	5.184	128	22660	1045.5840125 ppb	94
11) n-Decane	5.207	55	5285	1136.2162563 ppb #	89
12) 1,3-Dichlorobenzene	5.337	146	26262	1111.2289393 ppb	97
13) 1,4-Dichlorobenzene	5.402	146	26919	1128.5287873 ppb	98
14) Benzyl Alcohol	5.490	79	18136	1077.4733605 ppb	98
15) 1,2-Dichlorobenzene	5.549	146	26454	1148.9778236 ppb	97
16) bis(2-Chloroisopropyl)...	5.625	121	7790	1117.3302149 ppb #	87
17) 2-Methylphenol	5.578	108	20833	1083.7167627 ppb	99
18) Hexachloroethane	5.884	117	11351	1100.5191324 ppb	97
19) N-Nitrosodi-n-propylamine	5.743	70	14089	1075.7315900 ppb	97
20) 3&4-Methyl phenol	5.719	107	22696	1074.0255794 ppb	95
21) Acetophenone	0.000		0	N.D.	
24) Nitrobenzene	5.931	77	23982	1103.6332303 ppb	98
25) Isophorone	6.166	82	41317	1073.5482825 ppb	98
26) 2-Nitrophenol	6.254	139	10612	976.5460814 ppb	99
27) 2,4-Dimethylphenol	6.266	107	22128	1060.8958602 ppb	95
28) bis(2-Chlorethoxy)methane	6.372	93	29388	1124.7948484 ppb	98
29) 2,4-Dichlorophenol	6.490	162	17877	1030.0066814 ppb	97
30) Benzoic Acid	0.000		0	N.D.	
31) 1,2,4-Trichlorobenzene	6.590	180	21956	1127.3611525 ppb	98
32) Naphthalene	6.678	128	78308	1170.8668941 ppb	99
33) 4-Chloroaniline	6.713	65	8786	1089.5471487 ppb	97
34) Hexachloro-1,3-butadiene	6.801	225	12280	1139.2174189 ppb	98
35) Caprolactam	0.000		0	N.D. d	
36) 4-Chloro-3-methylphenol	7.201	107	19110	1051.0730628 ppb	94
37) 2-Methylnaphthalene	7.407	142	50795	1104.2449839 ppb	99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\112014A\
Data File : 1120a 05.D
Acq On : 20 Nov 2014 8:03 pm
Operator : 377
Sample : STD SVMS 1K PPB 14K07412
Misc : 8270 PRIMARY CALIBRATION
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Nov 21 14:33:12 2014
Quant Method : C:\msdchem\1\methods\S819K21N.M
Quant Title : 8270 BNA
QLast Update : Fri Nov 21 14:21:01 2014
Response via : Initial Calibration

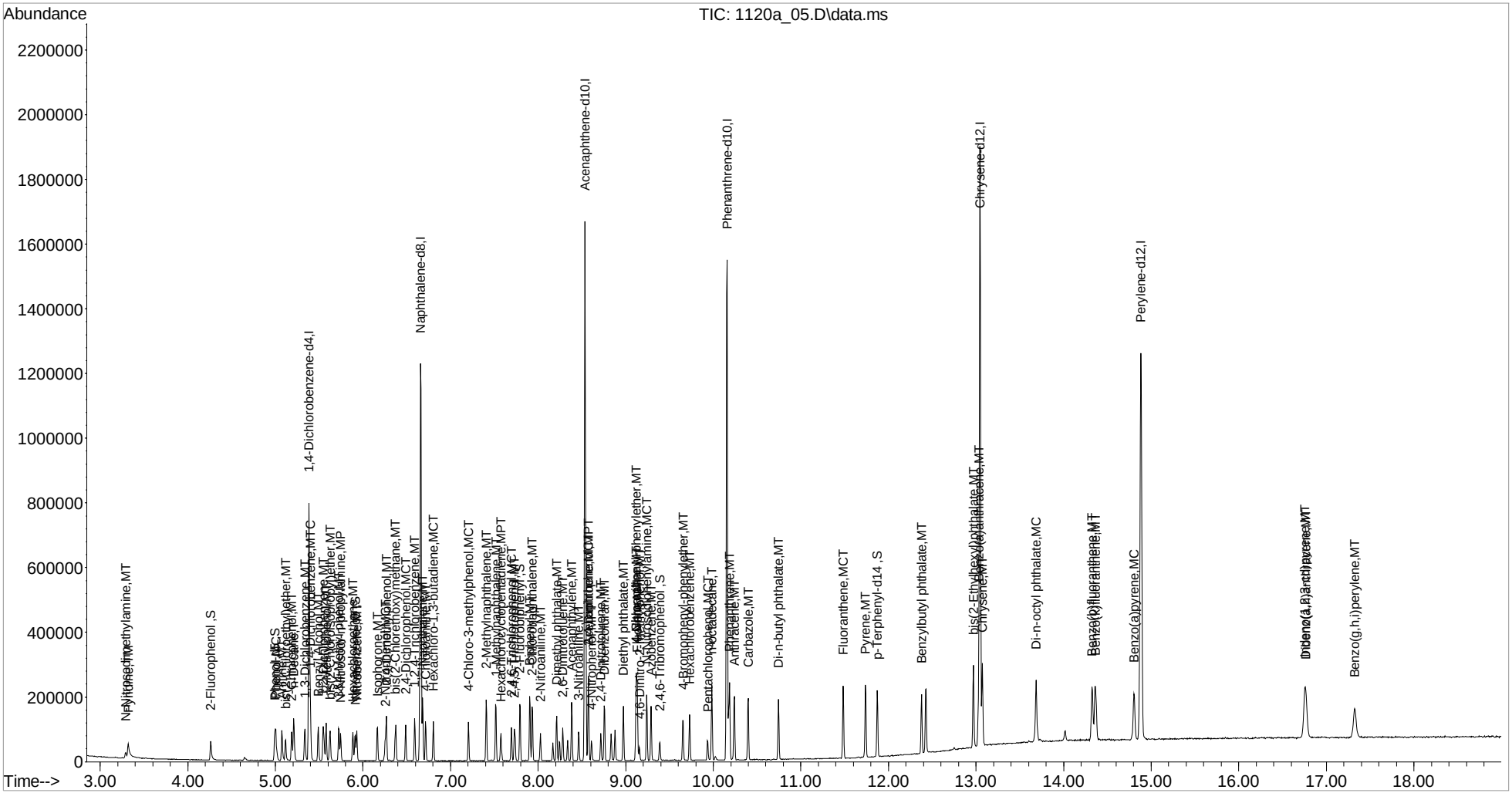
Compound	R.T.	QIon	Response	Conc Units		Dev(Min)
38) 1-Methylnaphthalene	7.519	142	48572	1121.4985531 ppb		99
39) 1,2,4,5-Tetrachloroben...	0.000		0	N.D.		
41) Hexachlorocyclopentadiene	7.578	237	12016	1087.4713686 ppb		97
42) 2,4,6-Trichlorophenol	7.695	196	11967	1019.0798784 ppb		95
43) 2,4,5-Trichlorophenol	7.731	196	13246	1020.7189696 ppb		94
45) Biphenyl	7.901	154	60969	1138.5395374 ppb		99
46) 2-Chloronaphthalene	7.931	162	47610	1153.5310437 ppb		95
47) 2-Nitroaniline	8.025	138	12983	932.7625183 ppb		99
48) Acenaphthylene	8.384	152	73230	1108.9185694 ppb		100
49) Dimethyl phthalate	8.213	163	53920	1135.4799914 ppb		98
50) 2,6-Dinitrotoluene	8.278	165	11112	1010.1205495 ppb		91
51) 3-Nitroaniline	8.460	138	12674	982.0425583 ppb		89
52) Acenaphthene	8.572	153	51210	1140.0206327 ppb		98
53) 2,4-Dinitrophenol	8.572	184	3312	707.2074868 ppb	#	1
54) Dibenzofuran	8.754	168	68685	1147.9724694 ppb		98
55) 2,4-Dinitrotoluene	8.713	165	13297	929.0501219 ppb		91
56) 2,3,4,6-Tetrachlorophenol	0.000		0	N.D. d		
57) 4-Nitrophenol	8.607	139	9091	906.1234005 ppb		93
58) Fluorene	9.131	166	56900	1125.6553691 ppb		99
59) 4-Chlorophenyl-phenyle...	9.119	204	25500	1117.1924563 ppb		97
60) Diethyl phthalate	8.972	149	57316	1131.0382028 ppb		99
61) 4-Nitroaniline	9.119	138	13221	1042.1551320 ppb		96
62) Azobenzene	9.290	77	58270	1106.5840689 ppb		98
63) Atrazine	0.000		0	N.D.		
65) 4,6-Dinitro-2-methylph...	9.160	198	5249	749.8417204 ppb	#	88
66) N-Nitrosodiphenylamine	9.237	169	46404	1088.2339424 ppb		99
68) 4-Bromophenyl-phenylether	9.654	248	14421	1102.6874710 ppb		96
69) Hexachlorobenzene	9.731	284	16238	1110.7690665 ppb		97
70) n-octadecane	9.984	55	10516m	1089.8522066 ppb		
71) Pentachlorophenol	9.937	266	6828	903.8558609 ppb		94
72) Phenanthrene	10.184	178	86810	1147.1979684 ppb		100
73) Anthracene	10.242	178	83510	1089.8521804 ppb		99
74) Carbazole	10.401	167	78000	1082.7574480 ppb		100
75) Di-n-butyl phthalate	10.742	149	95877	1021.1448764 ppb		99
76) 2-nitrodiphenylamine	0.000		0	N.D.		
77) Fluoranthene	11.483	202	86701	1038.1762664 ppb		99
79) Benzidine	0.000		0	N.D.		
80) Pyrene	11.736	202	92286	1097.8183105 ppb		99
82) Benzylbutyl phthalate	12.378	149	42522	1025.4039754 ppb		97
83) 3,3-Dichlorobenzidine	0.000		0	N.D.		
84) Benzo(a)anthracene	13.030	228	88968	1117.8885540 ppb		98
85) Chrysene	13.072	228	83880	1144.1317769 ppb		99
86) bis(2-Ethylhexyl)phtha...	12.972	149	67653m	1087.7051607 ppb		
87) Di-n-octyl phthalate	13.689	149	101725m	961.8980750 ppb		
89) Benzo(b)fluoranthene	14.324	252	90413m	1139.7668627 ppb		
90) Benzo(k)fluoranthene	14.366	252	82881	1020.1949037 ppb		96
91) Benzo(a)pyrene	14.801	252	80928	1047.7821815 ppb		97
92) Indeno(1,2,3-cd)pyrene	16.754	276	88956	1058.1595783 ppb		97
93) Dibenz(a,h)anthracene	16.765	278	76292	1069.6308295 ppb		98
94) Benzo(g,h,i)perylene	17.324	276	76410	1086.7741917 ppb		97

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\112014A\
Data File : 1120a 05.D
Acq On : 20 Nov 2014 8:03 pm
Operator : 377
Sample : STD SVMS 1K PPB 14K07412
Misc : 8270 PRIMARY CALIBRATION
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Nov 21 14:33:12 2014
Quant Method : C:\msdchem\1\methods\S819K21N.M
Quant Title : 8270 BNA
QLast Update : Fri Nov 21 14:21:01 2014
Response via : Initial Calibration

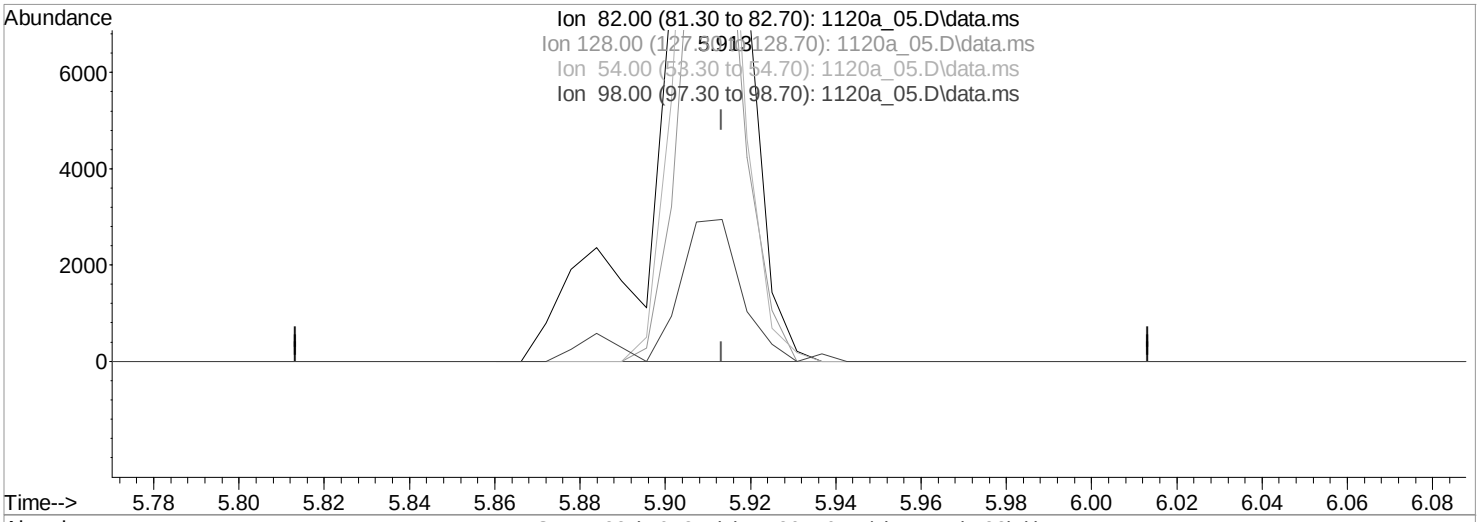


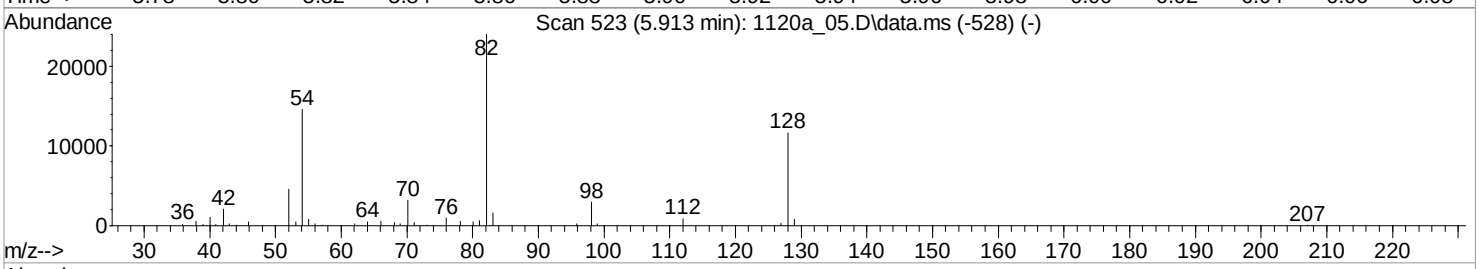
PDF Generated On: 11/21/2014 -- By: Chris McCord

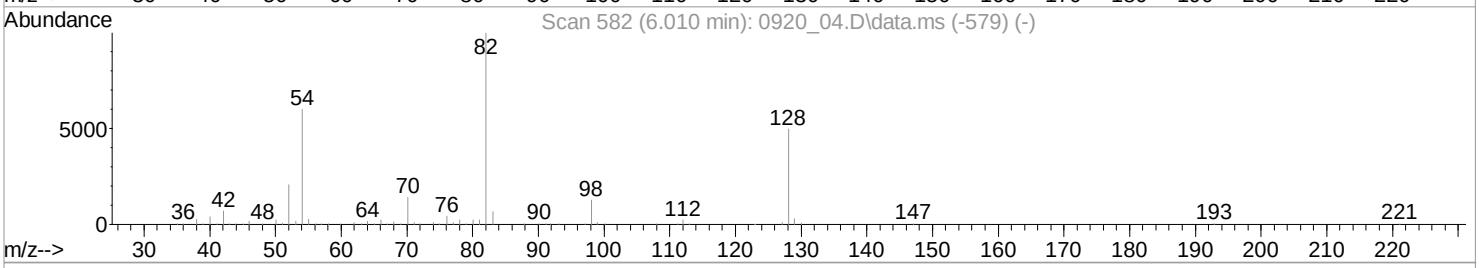
Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\data\112014A\
Data File : 1120a 05.D
Acq On    : 20 Nov 2014   8:03 pm
Operator  : 377
Sample    : STD SVMS 1K PPB 14K07412
Misc      : 8270 PRIMARY CALIBRATION
ALS Vial  : 5   Sample Multiplier: 1

Quant Time: Nov 21 14:21:22 2014
Quant Method : C:\msdchem\1\methods\S819K21N.M
Quant Title  : 8270 BNA
QLast Update : Fri Nov 21 14:21:01 2014
Response via : Initial Calibration
```







TIC: 1120a_05.D\data.ms

(23) Nitrobenzene-d5 (S)

5.913min (+0.000) 1196.4064300 ppb

Qvalue = 97

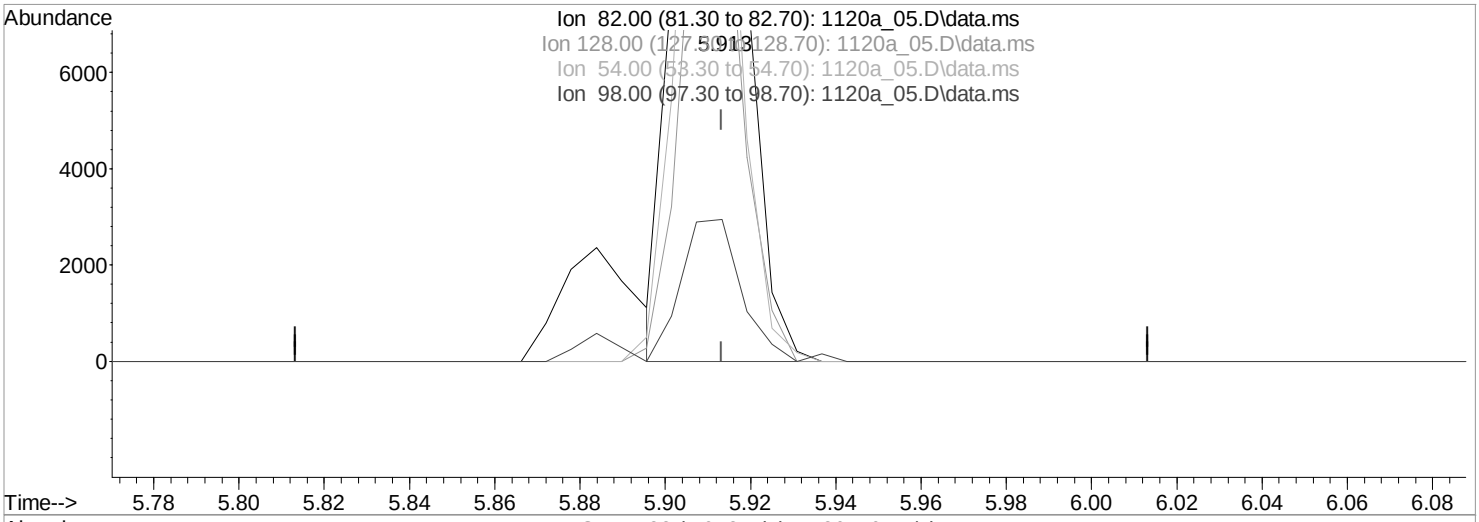
response 25866

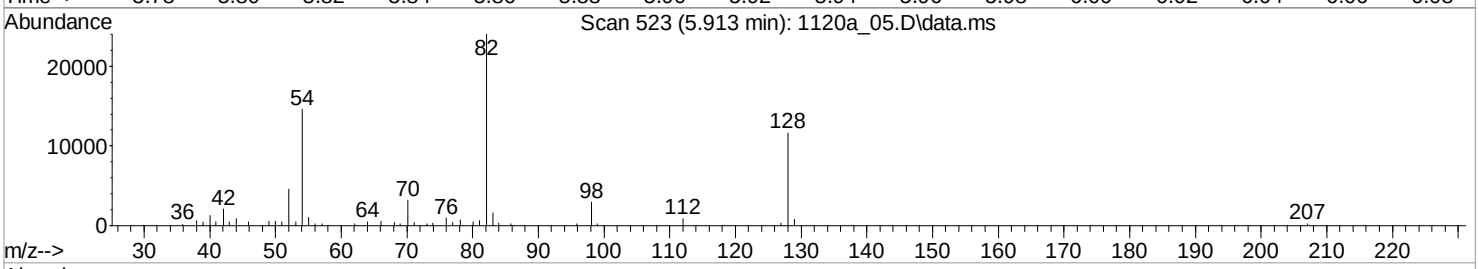
Ion	Exp%	Act%
82.00	100	100
128.00	49.50	48.31
54.00	57.40	60.71
98.00	11.70	12.24

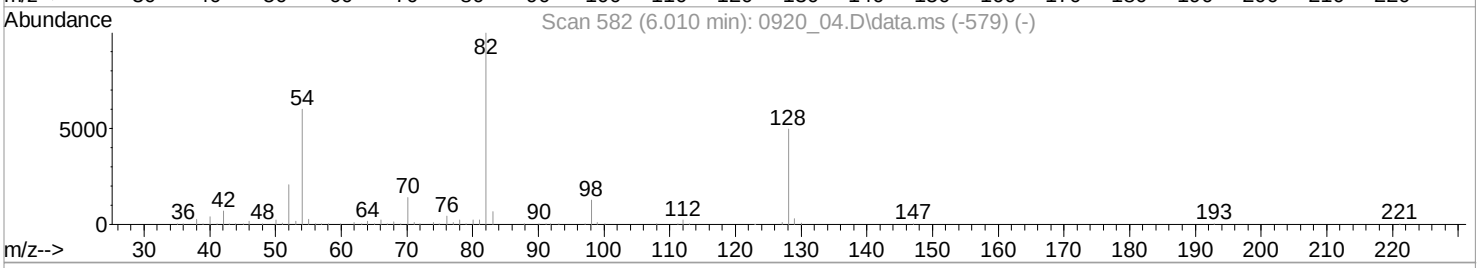
Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\data\112014A\
Data File : 1120a 05.D
Acq On    : 20 Nov 2014   8:03 pm
Operator  : 377
Sample    : STD SVMS 1K PPB 14K07412
Misc      : 8270 PRIMARY CALIBRATION
ALS Vial  : 5   Sample Multiplier: 1

Quant Time: Nov 21 14:21:22 2014
Quant Method : C:\msdchem\1\methods\S819K21N.M
Quant Title  : 8270 BNA
QLast Update : Fri Nov 21 14:21:01 2014
Response via : Initial Calibration
```







TIC: 1120a_05.D\data.ms

(23) Nitrobenzene-d5 (S)

5.913min (+0.000) 1068.0515300 ppb m

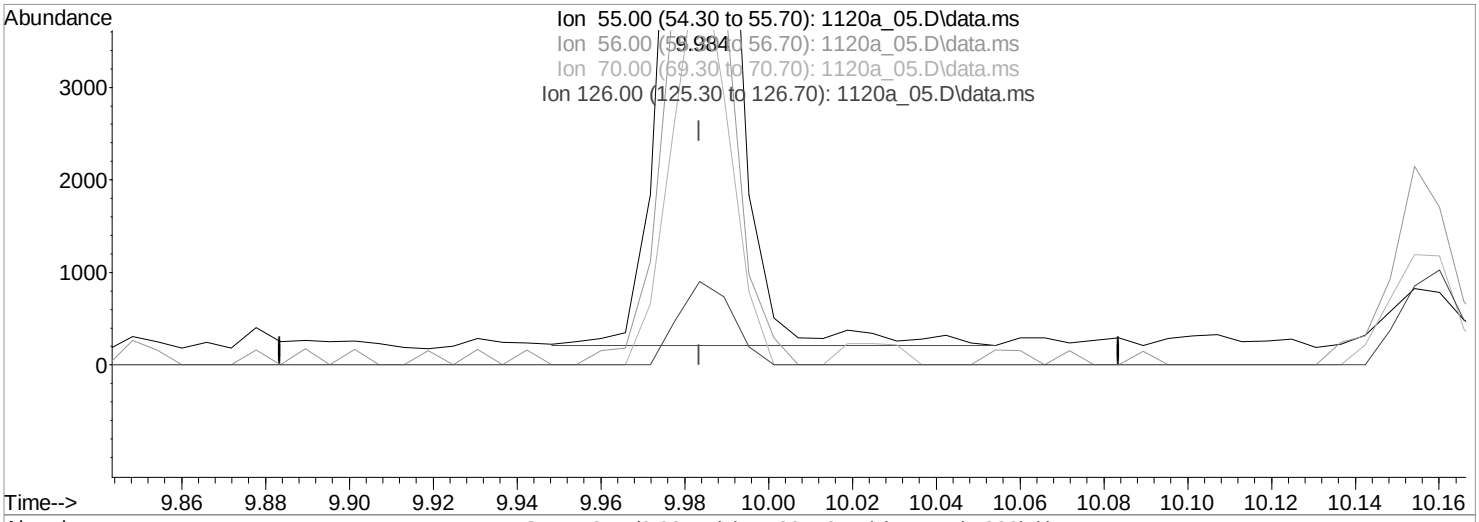
response 23091

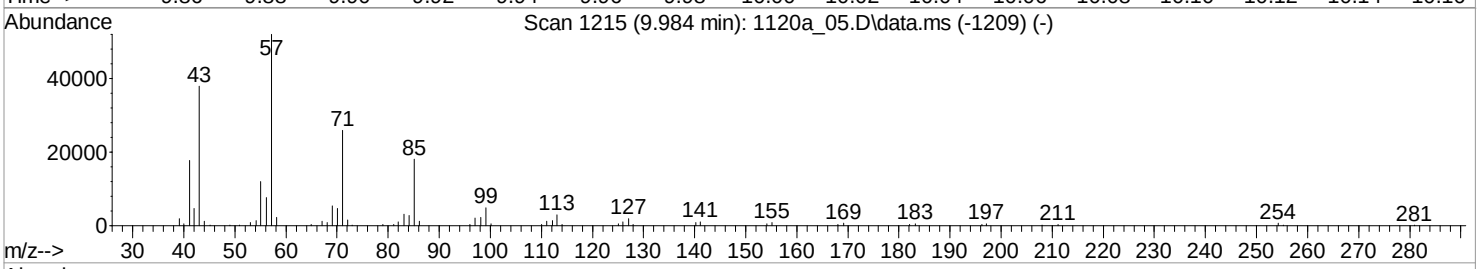
Ion	Exp%	Act%
82.00	100	100
128.00	49.50	48.31
54.00	57.40	60.71
98.00	11.70	12.24

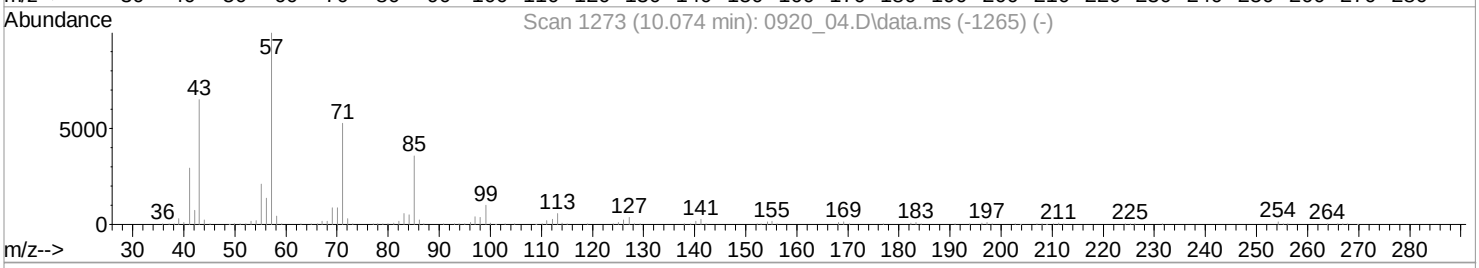
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\112014A\
Data File : 1120a 05.D
Acq On : 20 Nov 2014 8:03 pm
Operator : 377
Sample : STD SVMS 1K PPB 14K07412
Misc : 8270 PRIMARY CALIBRATION
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Nov 21 14:21:22 2014
Quant Method : C:\msdchem\1\methods\S819K21N.M
Quant Title : 8270 BNA
QLast Update : Fri Nov 21 14:21:01 2014
Response via : Initial Calibration







TIC: 1120a_05.D\data.ms

(70) n-octadecane (T)

9.984min (+0.000) 1109.2324237 ppb

Qvalue = 97

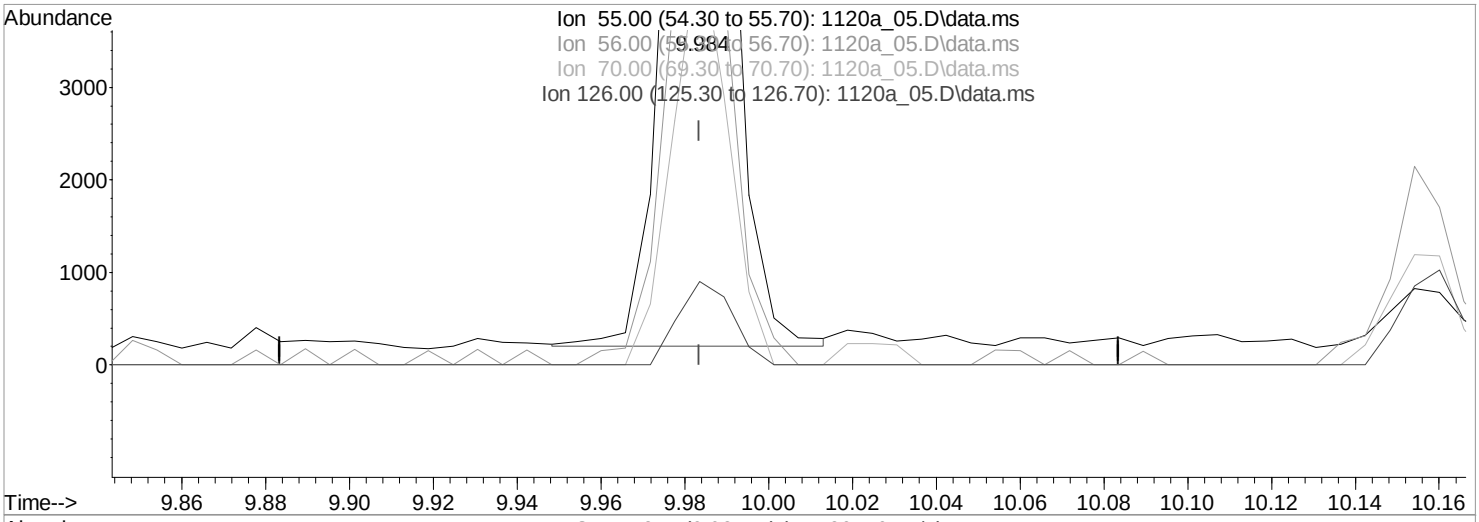
response 10703

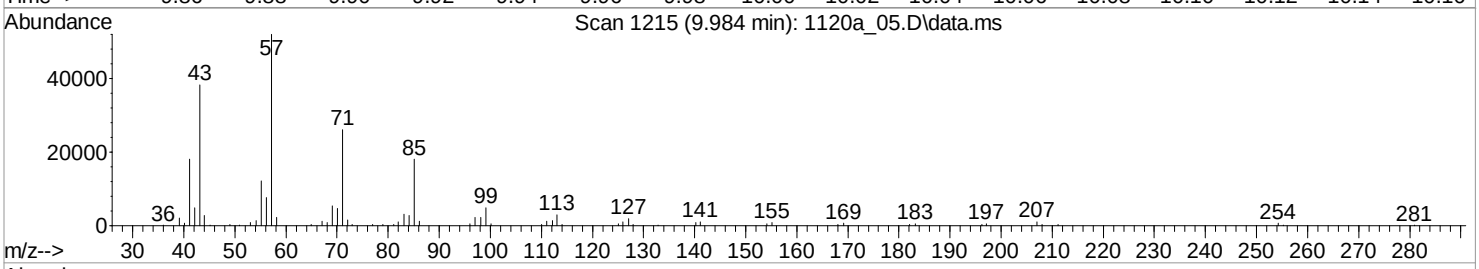
Ion	Exp%	Act%
55.00	100	100
56.00	65.40	62.95
70.00	39.80	38.26
126.00	9.50	7.59

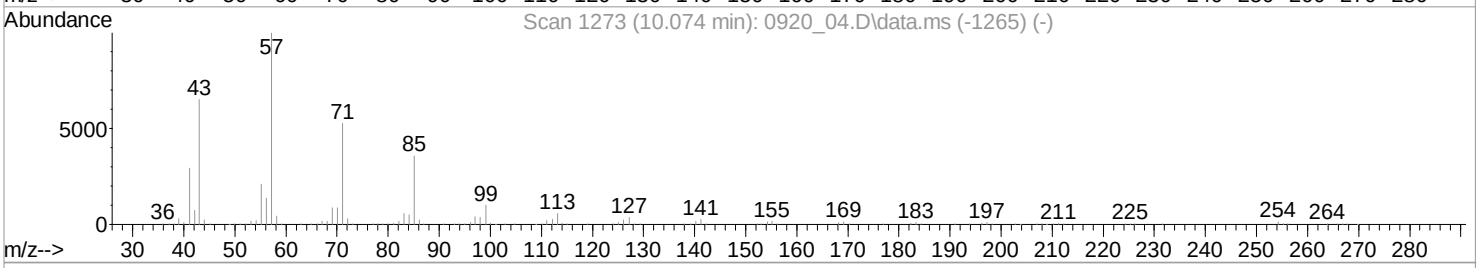
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\112014A\
Data File : 1120a 05.D
Acq On : 20 Nov 2014 8:03 pm
Operator : 377
Sample : STD SVMS 1K PPB 14K07412
Misc : 8270 PRIMARY CALIBRATION
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Nov 21 14:21:22 2014
Quant Method : C:\msdchem\1\methods\S819K21N.M
Quant Title : 8270 BNA
QLast Update : Fri Nov 21 14:21:01 2014
Response via : Initial Calibration







TIC: 1120a_05.D\data.ms

(70) n-octadecane (T)

9.984min (+0.000) 1089.8522066 ppb m

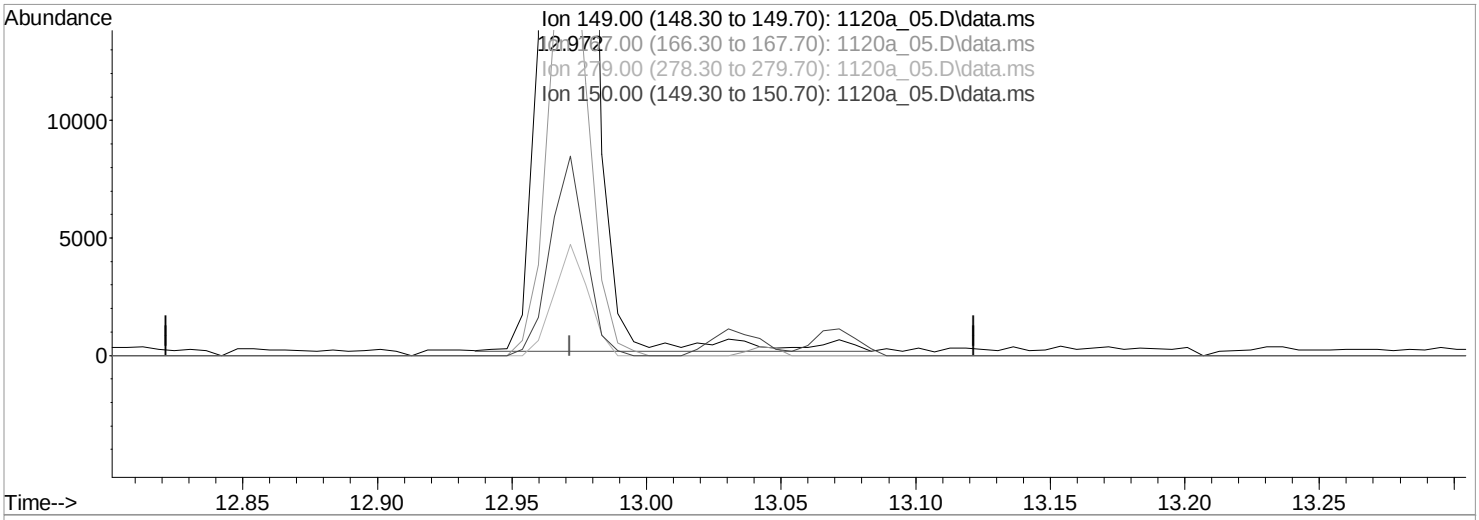
response 10516

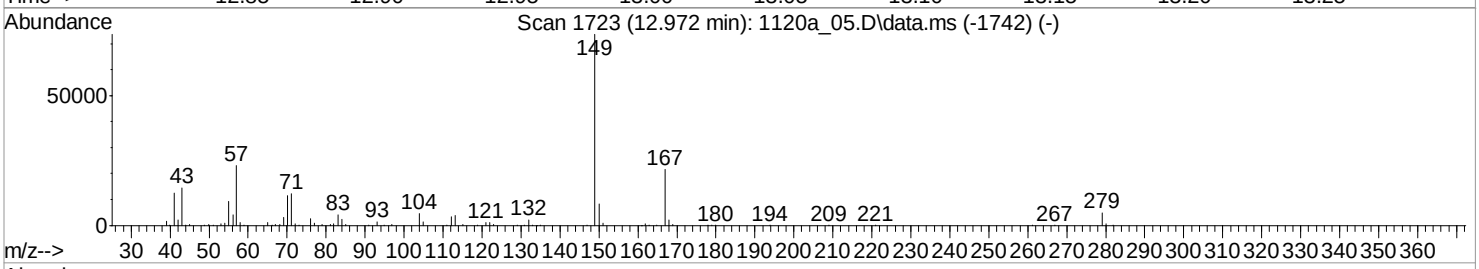
Ion	Exp%	Act%
55.00	100	100
56.00	65.40	61.87
70.00	39.80	37.60
126.00	9.50	7.46

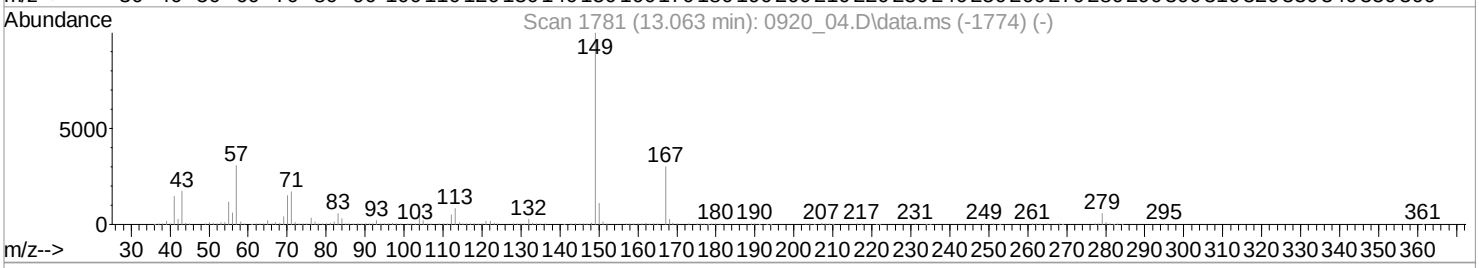
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\112014A\
Data File : 1120a 05.D
Acq On : 20 Nov 2014 8:03 pm
Operator : 377
Sample : STD SVMS 1K PPB 14K07412
Misc : 8270 PRIMARY CALIBRATION
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Nov 21 14:21:22 2014
Quant Method : C:\msdchem\1\methods\S819K21N.M
Quant Title : 8270 BNA
QLast Update : Fri Nov 21 14:21:01 2014
Response via : Initial Calibration







TIC: 1120a_05.D\data.ms

(86) bis(2-Ethylhexyl)phthalate (MT)

12.972min (+0.000) 1109.4100661 ppb

Qvalue = 99

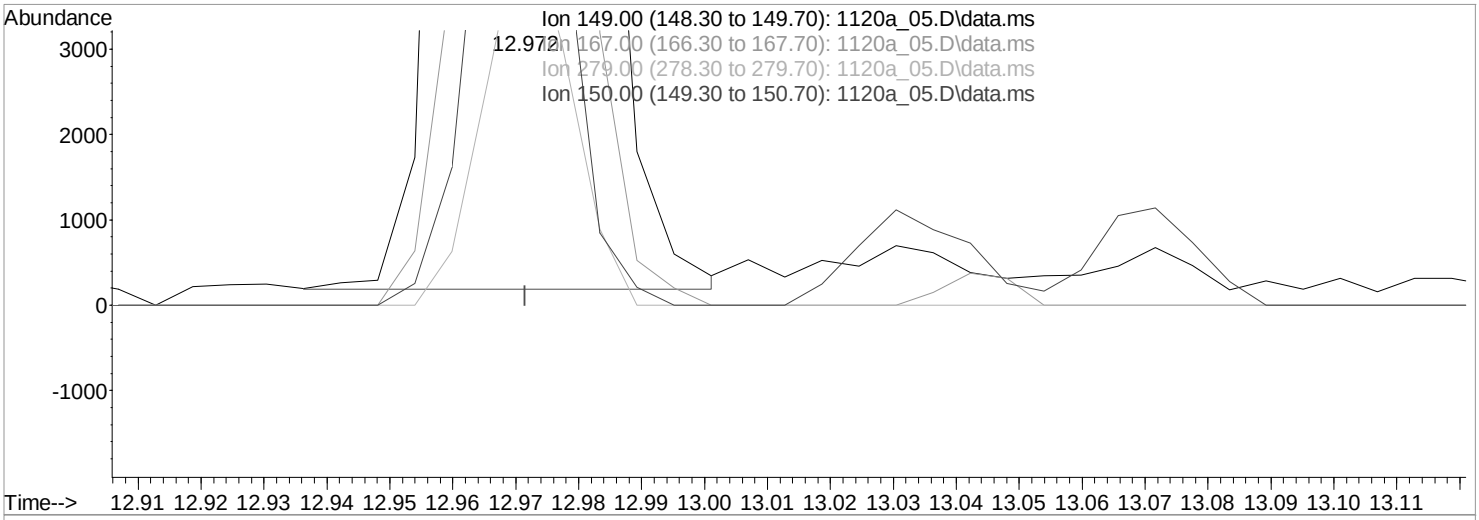
response 69003

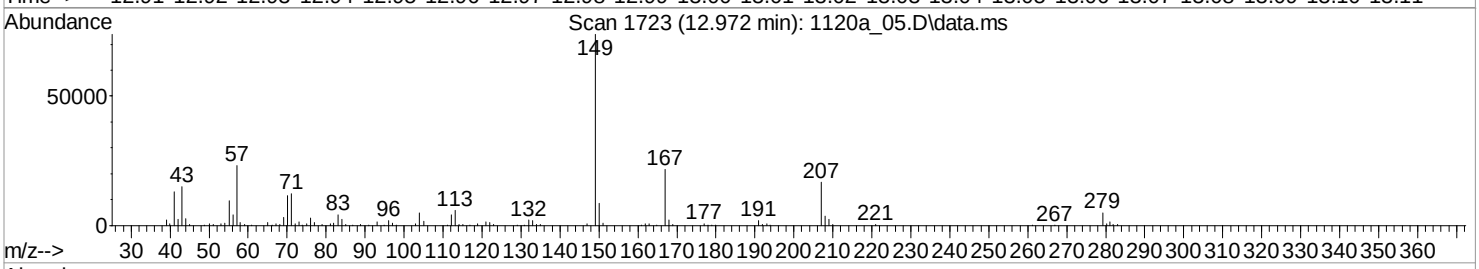
Ion	Exp%	Act%
149.00	100	100
167.00	29.60	29.23
279.00	6.10	6.40
150.00	11.40	11.52

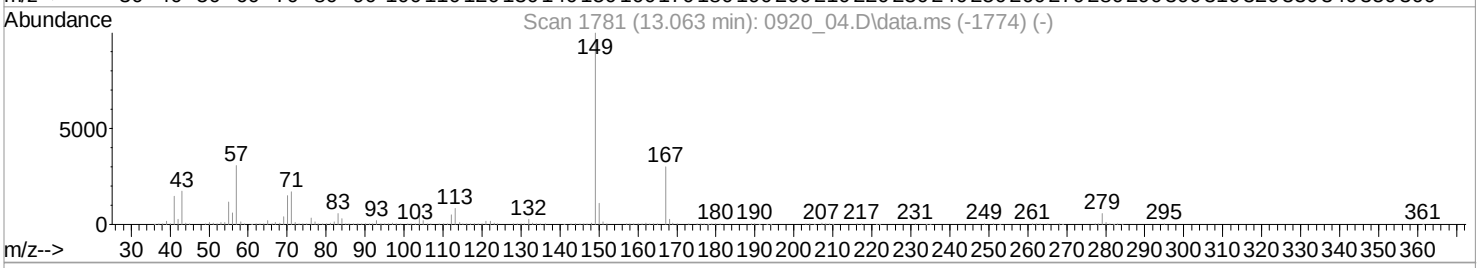
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\112014A\
Data File : 1120a 05.D
Acq On : 20 Nov 2014 8:03 pm
Operator : 377
Sample : STD SVMS 1K PPB 14K07412
Misc : 8270 PRIMARY CALIBRATION
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Nov 21 14:21:22 2014
Quant Method : C:\msdchem\1\methods\S819K21N.M
Quant Title : 8270 BNA
QLast Update : Fri Nov 21 14:21:01 2014
Response via : Initial Calibration







TIC: 1120a_05.D\data.ms

(86) bis(2-Ethylhexyl)phthalate (MT)

12.972min (+0.000) 1087.7051607 ppb m

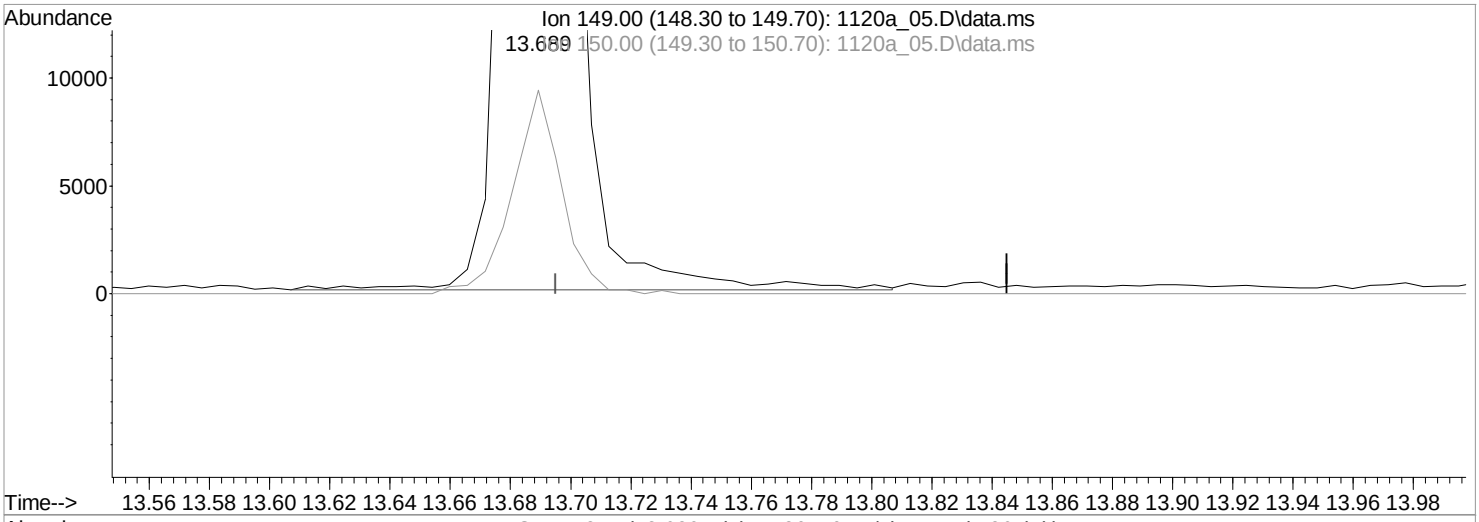
response 67653

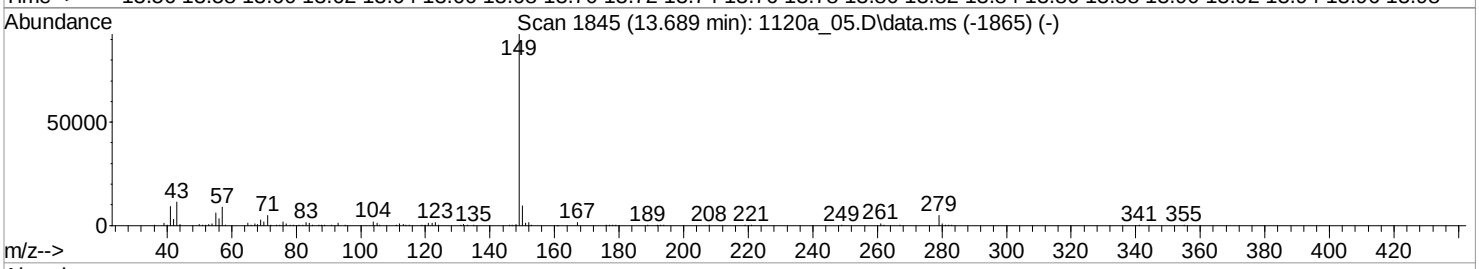
Ion	Exp%	Act%
149.00	100	100
167.00	29.60	29.16
279.00	6.10	6.38
150.00	11.40	11.49

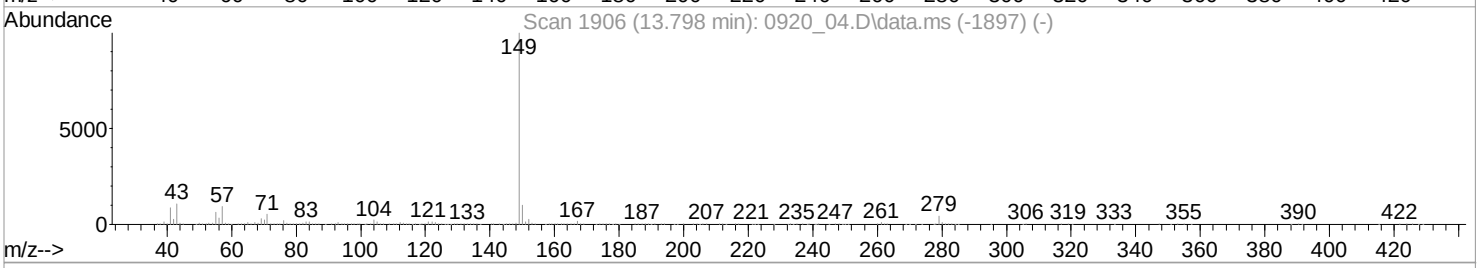
Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\data\112014A\
Data File : 1120a 05.D
Acq On    : 20 Nov 2014   8:03 pm
Operator  : 377
Sample    : STD SVMS 1K PPB 14K07412
Misc      : 8270 PRIMARY CALIBRATION
ALS Vial  : 5   Sample Multiplier: 1

Quant Time: Nov 21 14:21:22 2014
Quant Method : C:\msdchem\1\methods\S819K21N.M
Quant Title  : 8270 BNA
QLast Update : Fri Nov 21 14:21:01 2014
Response via : Initial Calibration
```







TIC: 1120a_05.D\data.ms

(87) Di-n-octyl phthalate (MC)

13.689min (-0.006) 991.7407914 ppb

Qvalue = 99

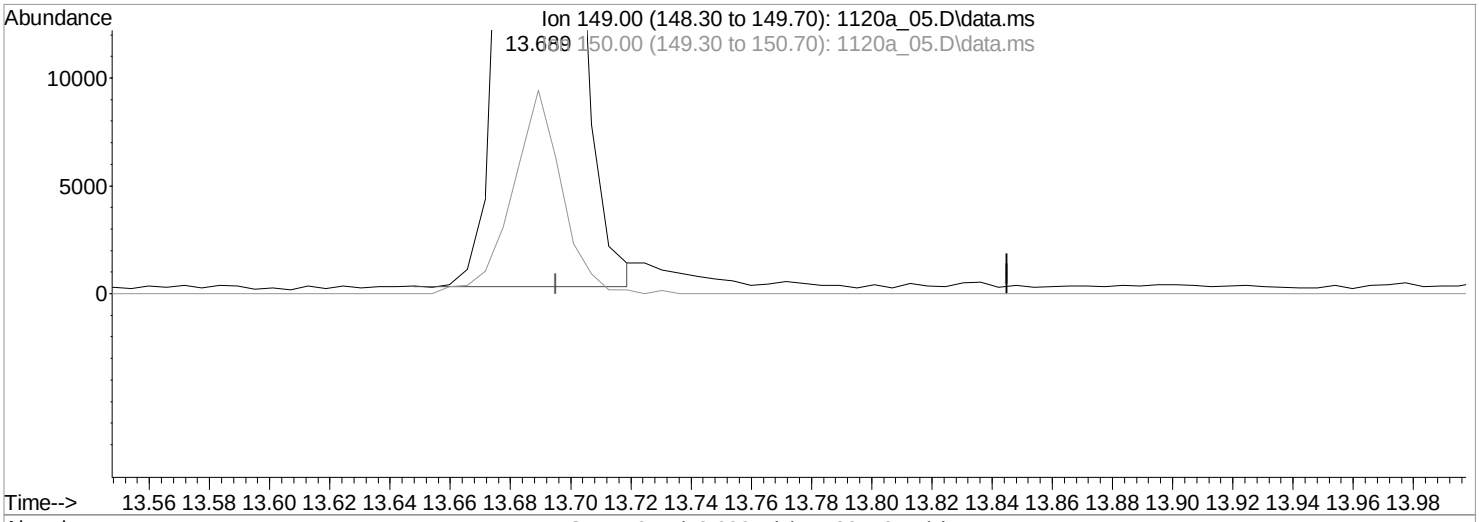
response 104881

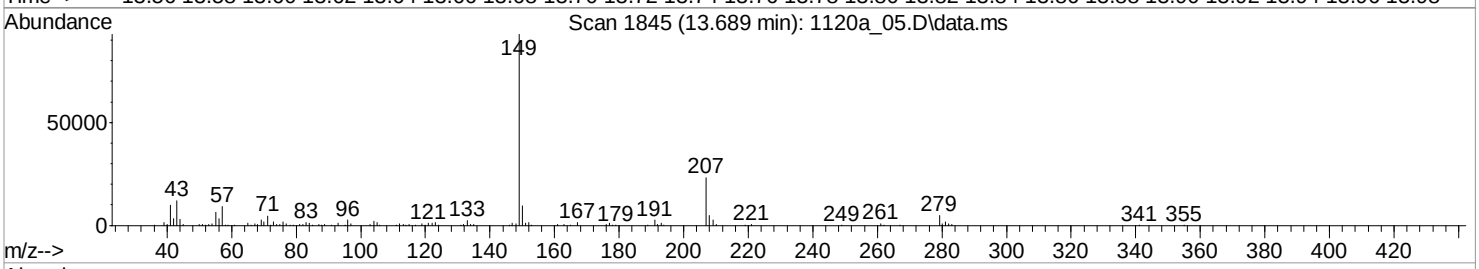
Ion	Exp%	Act%
149.00	100	100
150.00	9.70	10.17
0.00	0.00	0.00
0.00	0.00	0.00

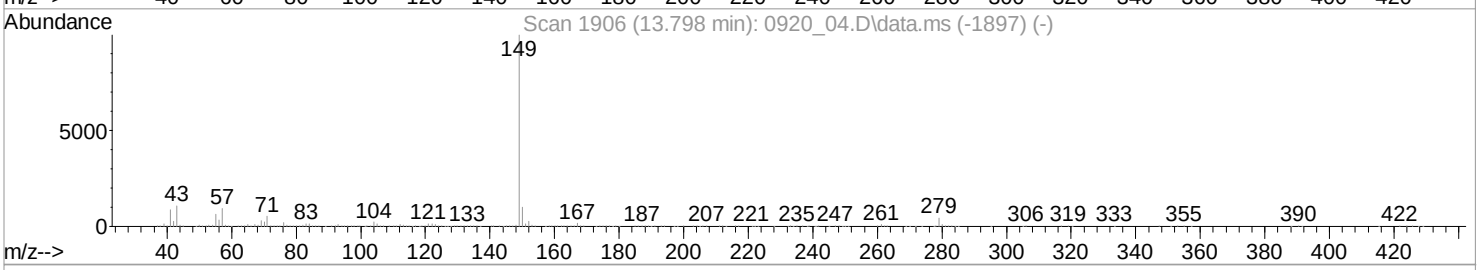
Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\data\112014A\
Data File : 1120a 05.D
Acq On    : 20 Nov 2014   8:03 pm
Operator  : 377
Sample    : STD SVMS 1K PPB 14K07412
Misc      : 8270 PRIMARY CALIBRATION
ALS Vial  : 5   Sample Multiplier: 1

Quant Time: Nov 21 14:21:22 2014
Quant Method : C:\msdchem\1\methods\S819K21N.M
Quant Title  : 8270 BNA
QLast Update : Fri Nov 21 14:21:01 2014
Response via : Initial Calibration
```







TIC: 1120a_05.D\data.ms

(87) Di-n-octyl phthalate (MC)

13.689min (-0.006) 961.8980750 ppb m

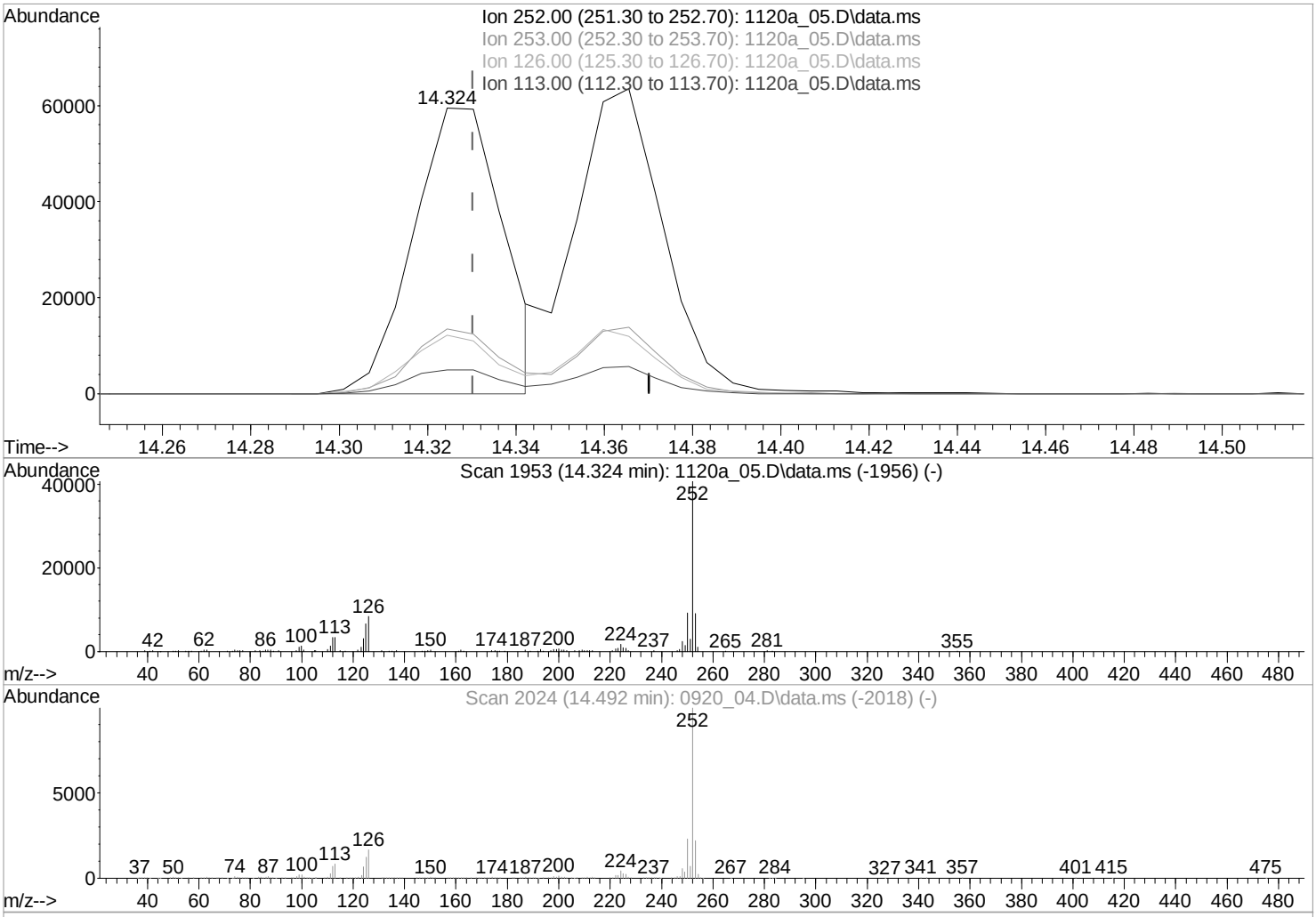
response 101725

Ion	Exp%	Act%
149.00	100	100
150.00	9.70	10.15
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\112014A\
Data File : 1120a 05.D
Acq On : 20 Nov 2014 8:03 pm
Operator : 377
Sample : STD SVMS 1K PPB 14K07412
Misc : 8270 PRIMARY CALIBRATION
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Nov 21 14:21:22 2014
Quant Method : C:\msdchem\1\methods\S819K21N.M
Quant Title : 8270 BNA
QLast Update : Fri Nov 21 14:21:01 2014
Response via : Initial Calibration



TIC: 1120a_05.D\data.ms

(89) Benzo(b)fluoranthene (MT)

14.324min (-0.006) 1064.9615077 ppb

Qvalue = 98

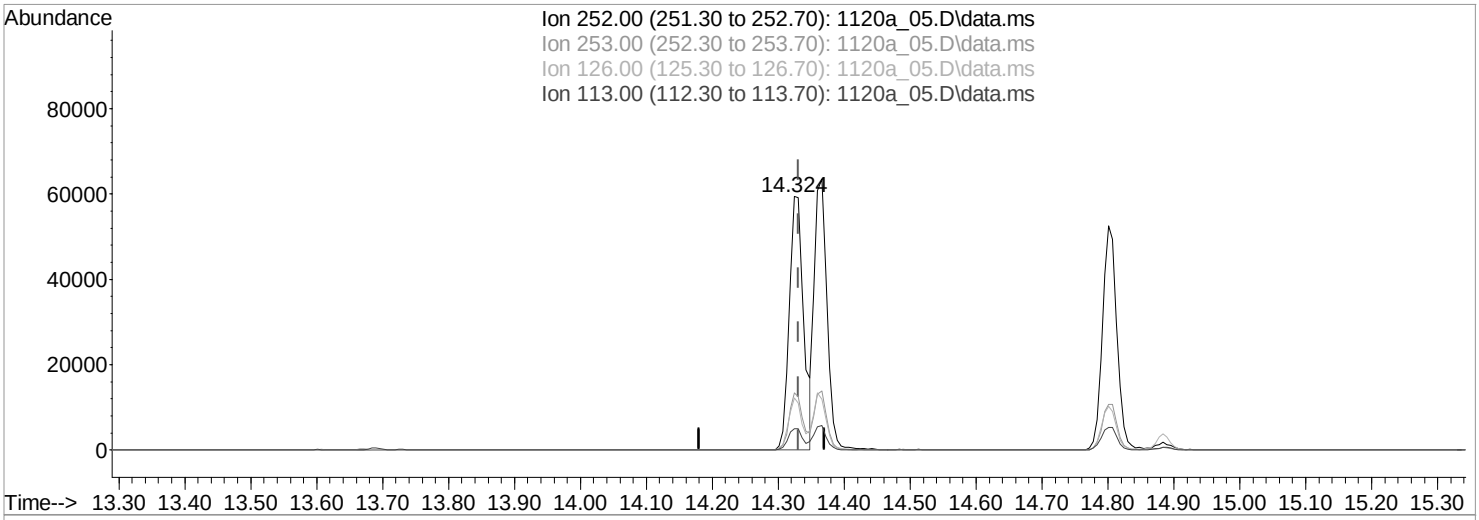
response 84479

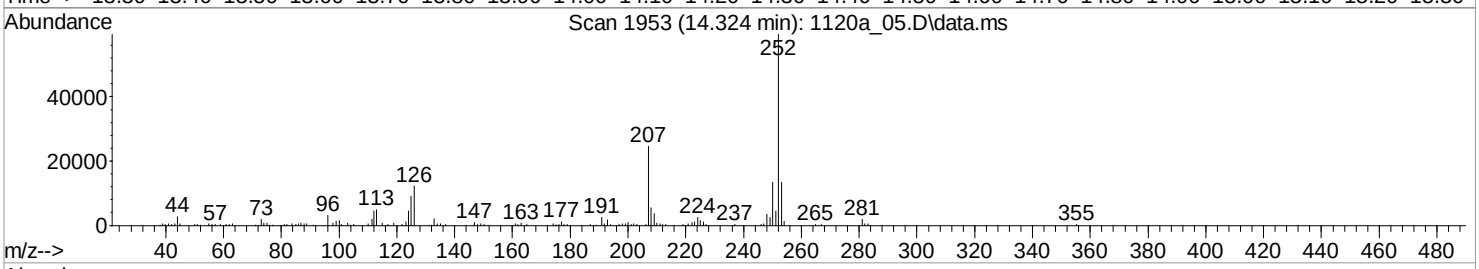
Ion	Exp%	Act%
252.00	100	100
253.00	22.10	22.64
126.00	20.10	20.59
113.00	9.60	8.31

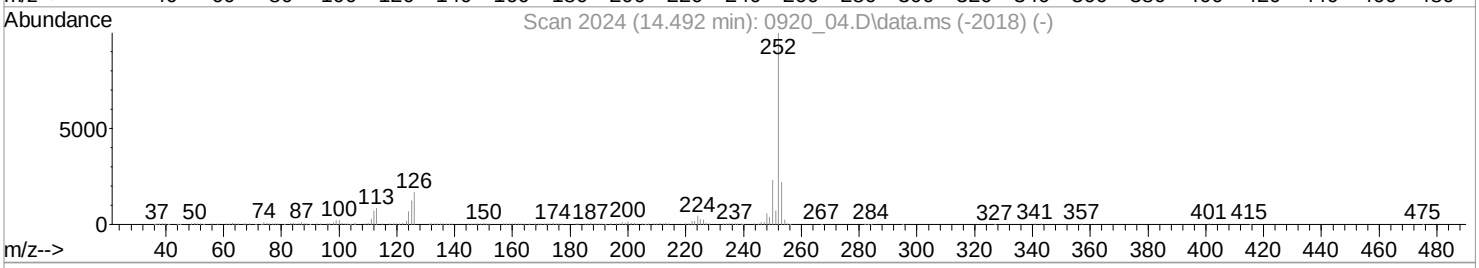
Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\data\112014A\
Data File : 1120a 05.D
Acq On    : 20 Nov 2014   8:03 pm
Operator  : 377
Sample    : STD SVMS 1K PPB 14K07412
Misc      : 8270 PRIMARY CALIBRATION
ALS Vial  : 5   Sample Multiplier: 1

Quant Time: Nov 21 14:21:22 2014
Quant Method : C:\msdchem\1\methods\S819K21N.M
Quant Title  : 8270 BNA
QLast Update : Fri Nov 21 14:21:01 2014
Response via : Initial Calibration
```







TIC: 1120a_05.D\data.ms

(89) Benzo(b)fluoranthene (MT)

14.324min (-0.006) 1139.7668627 ppb m

response 90413

Ion	Exp%	Act%
252.00	100	100
253.00	22.10	22.64
126.00	20.10	20.59
113.00	9.60	8.31

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\112014A\
Data File : 1120a 06.D
Acq On : 20 Nov 2014 8:27 pm
Operator : 377
Sample : STD SVMS 2K PPB 14K07412
Misc : 8270 PRIMARY CALIBRATION
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Nov 21 14:36:53 2014
Quant Method : C:\msdchem\1\methods\S819K21N.M
Quant Title : 8270 BNA
QLast Update : Fri Nov 21 14:21:01 2014
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 1,4-Dichlorobenzene-d4	5.384	152	127805	8000.0000000 ppb	0.00
22) Naphthalene-d8	6.660	136	555730	8000.0000000 ppb	0.00
40) Acenaphthene-d10	8.536	164	347902	8000.0000000 ppb	0.00
64) Phenanthrene-d10	10.160	188	602742	8000.0000000 ppb	0.00
78) Chrysene-d12	13.042	240	599476	8000.0000000 ppb	0.00
88) Perylene-d12	14.883	264	650596	8000.0000000 ppb	0.00
System Monitoring Compounds					
4) 2-Fluorophenol	4.260	112	35602	1917.0274469 ppb	0.00
Spiked Amount 20.000	Range 10 - 78		Recovery = 9585.14%#		
7) Phenol-d5	4.995	99	47180	1941.6374316 ppb	0.00
Spiked Amount 20.000	Range 5 - 70		Recovery = 9708.19%#		
23) Nitrobenzene-d5	5.913	82	42354m	1905.5305997 ppb	0.00
Spiked Amount 10.000	Range 22 - 123		Recovery = 19055.31%#		
44) 2-Fluorobiphenyl	7.795	172	97997	1994.0442897 ppb	0.00
Spiked Amount 10.000	Range 30 - 131		Recovery = 19940.44%#		
67) 2,4,6-Tribromophenol	9.389	330	11345	1716.4377193 ppb	0.00
Spiked Amount 20.000	Range 11 - 130		Recovery = 8582.19%#		
81) p-Terphenyl-d14	11.871	244	121958	2036.9632273 ppb	0.00
Spiked Amount 10.000	Range 29 - 137		Recovery = 20369.63%#		
Target Compounds					Qvalue
2) Pyridine	3.313	79	49947	1987.1456606 ppb	96
3) N-Nitrosodimethylamine	3.284	74	23262	1854.1980401 ppb	96
5) Aniline	5.072	66	23042	1951.2788362 ppb	97
6) bis(2-Chloroethyl)ether	5.119	63	33778	1975.8761542 ppb	99
8) Phenol	5.007	94	49164	1959.0914407 ppb	99
9) Benzaldehyde	0.000		0	N.D. d	
10) 2-Chlorophenol	5.184	128	42585	1902.9933108 ppb	96
11) n-Decane	5.207	55	9745	2028.9877828 ppb	97
12) 1,3-Dichlorobenzene	5.337	146	48798	1999.6746926 ppb	97
13) 1,4-Dichlorobenzene	5.401	146	49723	2018.7968784 ppb	98
14) Benzyl Alcohol	5.489	79	33827	1946.3014192 ppb	100
15) 1,2-Dichlorobenzene	5.548	146	47682	2005.6555158 ppb	99
16) bis(2-Chloroisopropyl)...	5.625	121	14287	1984.5713242 ppb	99
17) 2-Methylphenol	5.578	108	39311	1980.4307015 ppb	96
18) Hexachloroethane	5.884	117	20889	1961.3843464 ppb	99
19) N-Nitrosodi-n-propylamine	5.742	70	25916	1916.3432710 ppb	91
20) 3&4-Methyl phenol	5.725	107	42034	1926.4050298 ppb	99
21) Acetophenone	0.000		0	N.D.	
24) Nitrobenzene	5.931	77	43535	1948.7222706 ppb	99
25) Isophorone	6.166	82	76241	1926.8744363 ppb	98
26) 2-Nitrophenol	6.254	139	20463	1831.6261460 ppb	99
27) 2,4-Dimethylphenol	6.266	107	41196	1921.1340575 ppb	96
28) bis(2-Chlorethoxy)methane	6.372	93	53626	1996.4145253 ppb	99
29) 2,4-Dichlorophenol	6.489	162	34275	1920.8563822 ppb	97
30) Benzoic Acid	0.000		0	N.D.	
31) 1,2,4-Trichlorobenzene	6.589	180	40531	2024.2735109 ppb	97
32) Naphthalene	6.678	128	141131	2052.5599140 ppb	100
33) 4-Chloroaniline	6.713	65	16753	2020.7819210 ppb	96
34) Hexachloro-1,3-butadiene	6.801	225	22264	2009.0163586 ppb	98
35) Caprolactam	0.000		0	N.D. d	
36) 4-Chloro-3-methylphenol	7.201	107	35580	1903.4882154 ppb	99
37) 2-Methylnaphthalene	7.407	142	94925	2007.2298461 ppb	99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\112014A\
Data File : 1120a 06.D
Acq On : 20 Nov 2014 8:27 pm
Operator : 377
Sample : STD SVMS 2K PPB 14K07412
Misc : 8270 PRIMARY CALIBRATION
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Nov 21 14:36:53 2014
Quant Method : C:\msdchem\1\methods\S819K21N.M
Quant Title : 8270 BNA
QLast Update : Fri Nov 21 14:21:01 2014
Response via : Initial Calibration

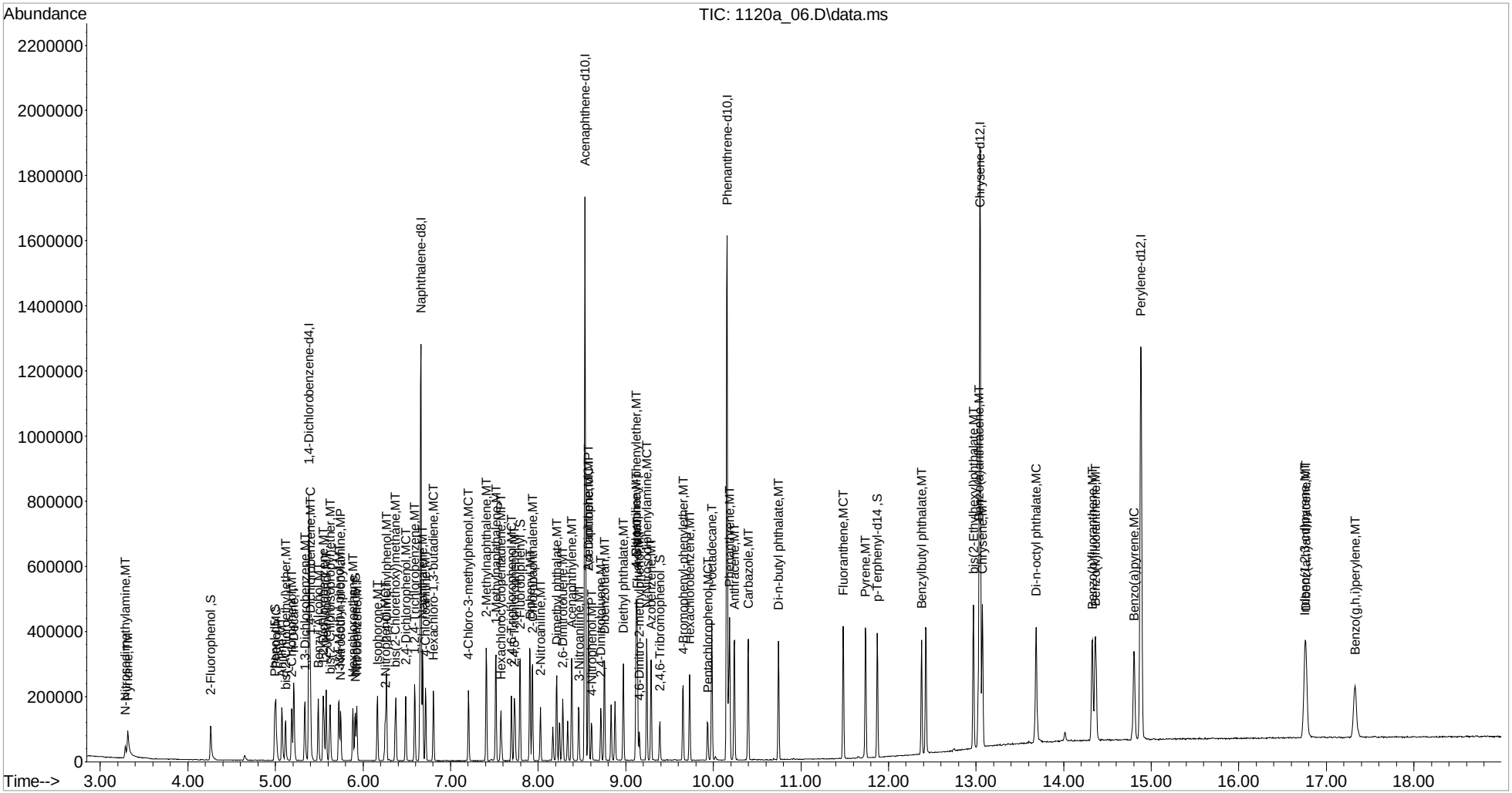
Compound	R.T.	QIon	Response	Conc Units		Dev(Min)
38) 1-Methylnaphthalene	7.519	142	88806	1994.4679876 ppb		97
39) 1,2,4,5-Tetrachloroben...	0.000		0	N.D.		
41) Hexachlorocyclopentadiene	7.578	237	21961	1895.2506232 ppb		97
42) 2,4,6-Trichlorophenol	7.695	196	22575	1833.1893218 ppb		98
43) 2,4,5-Trichlorophenol	7.731	196	25743	1891.6344571 ppb		97
45) Biphenyl	7.907	154	112964	2011.5726922 ppb		99
46) 2-Chloronaphthalene	7.936	162	86729	2003.7893705 ppb		99
47) 2-Nitroaniline	8.025	138	25726	1762.4829274 ppb		98
48) Acenaphthylene	8.383	152	134506	1942.2668769 ppb		100
49) Dimethyl phthalate	8.213	163	99601	2000.0917819 ppb		99
50) 2,6-Dinitrotoluene	8.278	165	21725	1883.2040653 ppb		92
51) 3-Nitroaniline	8.466	138	24319	1796.8794556 ppb		94
52) Acenaphthene	8.572	153	95498	2027.2571290 ppb		97
53) 2,4-Dinitrophenol	8.572	184	6535	1330.6343725 ppb	#	1
54) Dibenzofuran	8.760	168	124696	1987.3699423 ppb		99
55) 2,4-Dinitrotoluene	8.713	165	25529	1700.8887299 ppb		86
56) 2,3,4,6-Tetrachlorophenol	0.000		0	N.D. d		
57) 4-Nitrophenol	8.613	139	17700	1682.3082669 ppb		96
58) Fluorene	9.130	166	106193	2003.2986350 ppb		98
59) 4-Chlorophenyl-phenyle...	9.119	204	47480	1983.6047916 ppb		95
60) Diethyl phthalate	8.972	149	105956	1993.8091246 ppb		99
61) 4-Nitroaniline	9.119	138	24870	1869.3924135 ppb		87
62) Azobenzene	9.289	77	109132	1976.2784462 ppb		98
63) Atrazine	0.000		0	N.D.		
65) 4,6-Dinitro-2-methylph...	9.154	198	10385	1438.6341330 ppb	#	70
66) N-Nitrosodiphenylamine	9.236	169	86396	1964.7681838 ppb		99
68) 4-Bromophenyl-phenylether	9.654	248	26265	1947.5351284 ppb		97
69) Hexachlorobenzene	9.730	284	30834	2045.3702711 ppb		98
70) n-octadecane	9.983	55	18611m	1870.4132533 ppb		
71) Pentachlorophenol	9.936	266	12817	1645.2916058 ppb		94
72) Phenanthrene	10.183	178	157221	2014.7909845 ppb		99
73) Anthracene	10.242	178	155914	1973.1725218 ppb		99
74) Carbazole	10.401	167	146741	1975.3264682 ppb		99
75) Di-n-butyl phthalate	10.742	149	179393	1852.8030221 ppb		100
76) 2-nitrodiphenylamine	0.000		0	N.D.		
77) Fluoranthene	11.483	202	163527	1898.8352734 ppb		99
79) Benzidine	0.000		0	N.D. d		
80) Pyrene	11.736	202	172179	1982.6457379 ppb		99
82) Benzylbutyl phthalate	12.377	149	80011	1867.6749941 ppb		97
83) 3,3-Dichlorobenzidine	0.000		0	N.D.		
84) Benzo(a)anthracene	13.030	228	163676	1990.7649085 ppb		98
85) Chrysene	13.071	228	155483	2052.9143462 ppb		99
86) bis(2-Ethylhexyl)phtha...	12.971	149	123520m	1922.3466467 ppb		
87) Di-n-octyl phthalate	13.689	149	199563m	1826.6345721 ppb		
89) Benzo(b)fluoranthene	14.330	252	166892m	2018.7398233 ppb		
90) Benzo(k)fluoranthene	14.365	252	157282	1857.6627602 ppb		97
91) Benzo(a)pyrene	14.801	252	150037	1863.9328288 ppb		99
92) Indeno(1,2,3-cd)pyrene	16.753	276	167699	1914.1064156 ppb		99
93) Dibenz(a,h)anthracene	16.765	278	141485	1903.3777826 ppb		98
94) Benzo(g,h,i)perylene	17.330	276	142596	1946.0596349 ppb		99

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\112014A\
Data File : 1120a 06.D
Acq On : 20 Nov 2014 8:27 pm
Operator : 377
Sample : STD SVMS 2K PPB 14K07412
Misc : 8270 PRIMARY CALIBRATION
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Nov 21 14:36:53 2014
Quant Method : C:\msdchem\1\methods\S819K21N.M
Quant Title : 8270 BNA
QLast Update : Fri Nov 21 14:21:01 2014
Response via : Initial Calibration

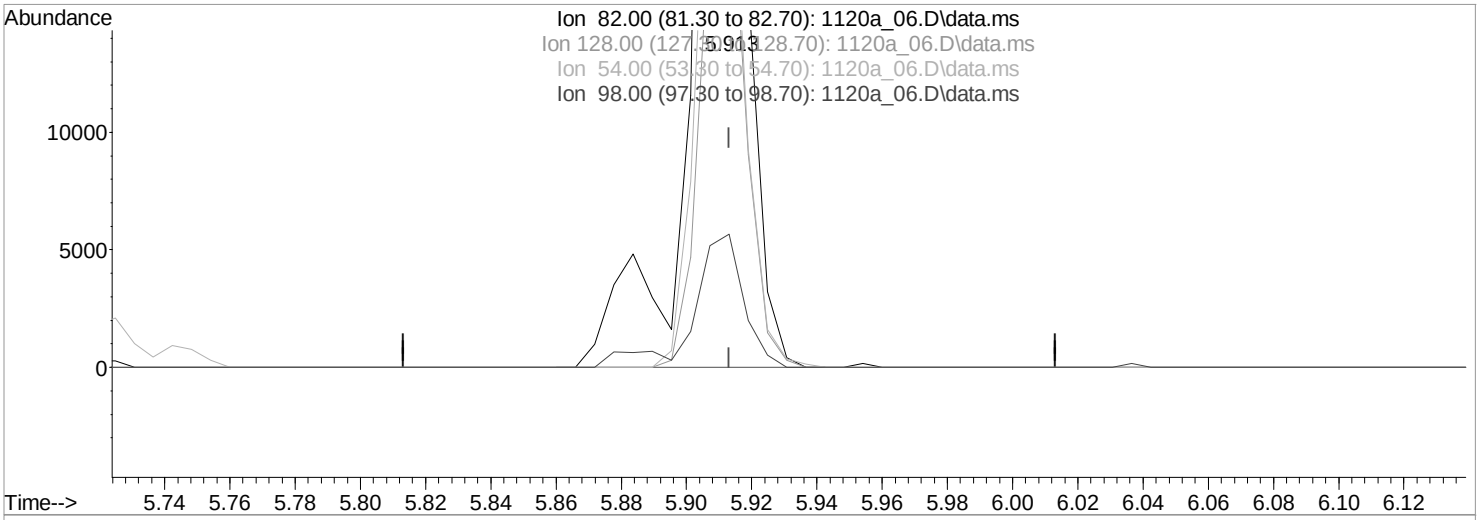


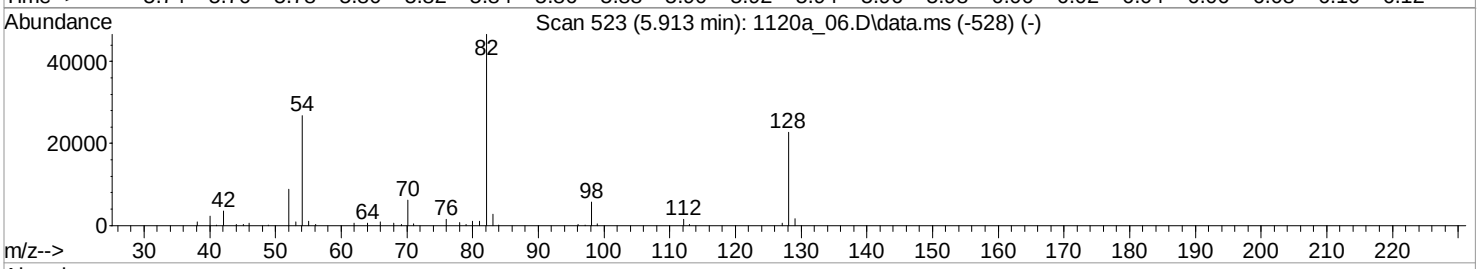
PDF Generated On: 11/21/2014 -- By: Chris McCord

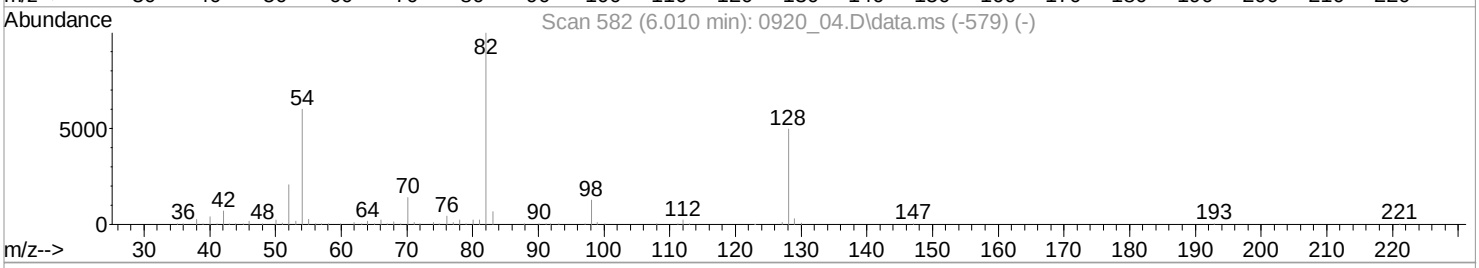
Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\data\112014A\
Data File : 1120a 06.D
Acq On    : 20 Nov 2014   8:27 pm
Operator  : 377
Sample    : STD SVMS 2K PPB 14K07412
Misc      : 8270 PRIMARY CALIBRATION
ALS Vial  : 6   Sample Multiplier: 1

Quant Time: Nov 21 14:21:25 2014
Quant Method : C:\msdchem\1\methods\S819K21N.M
Quant Title  : 8270 BNA
QLast Update : Fri Nov 21 14:21:01 2014
Response via : Initial Calibration
```







TIC: 1120a_06.D\data.ms

(23) Nitrobenzene-d5 (S)

5.913min (-0.000) 2126.7492322 ppb

Qvalue = 99

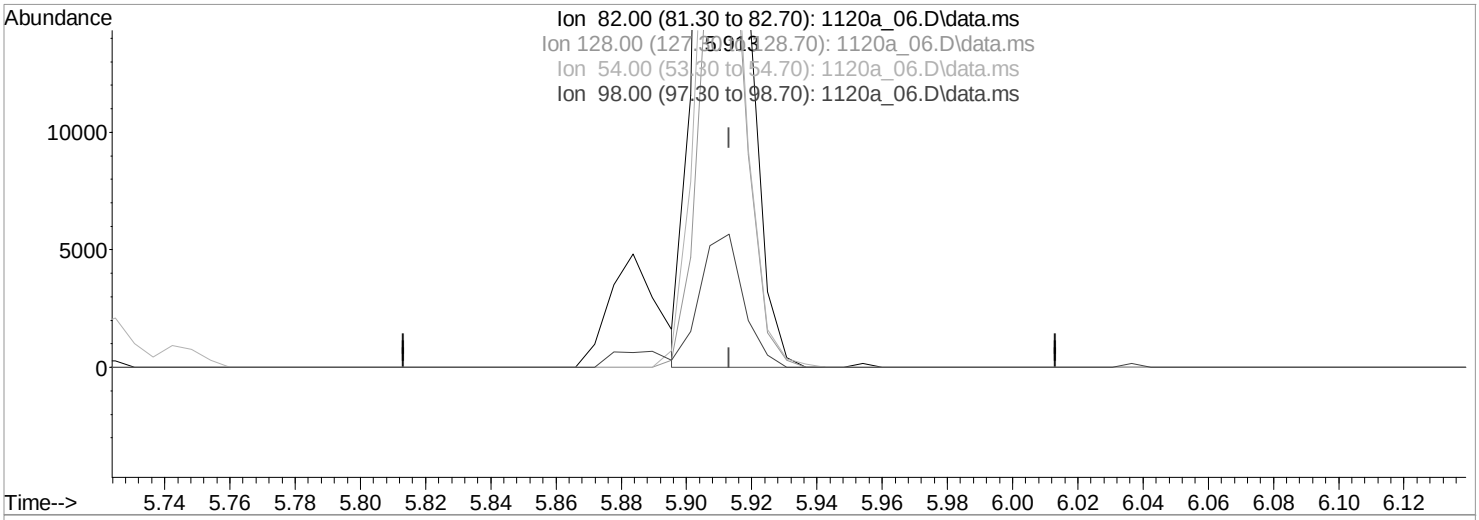
response 47271

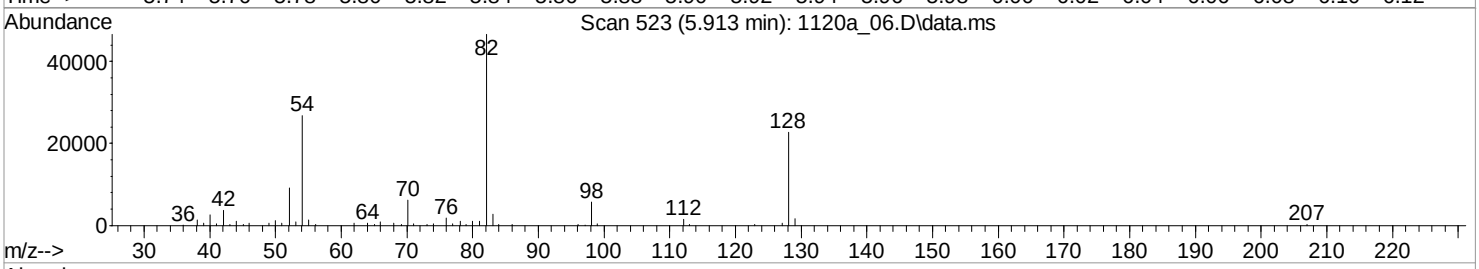
Ion	Exp%	Act%
82.00	100	100
128.00	49.50	48.64
54.00	57.40	57.21
98.00	11.70	12.12

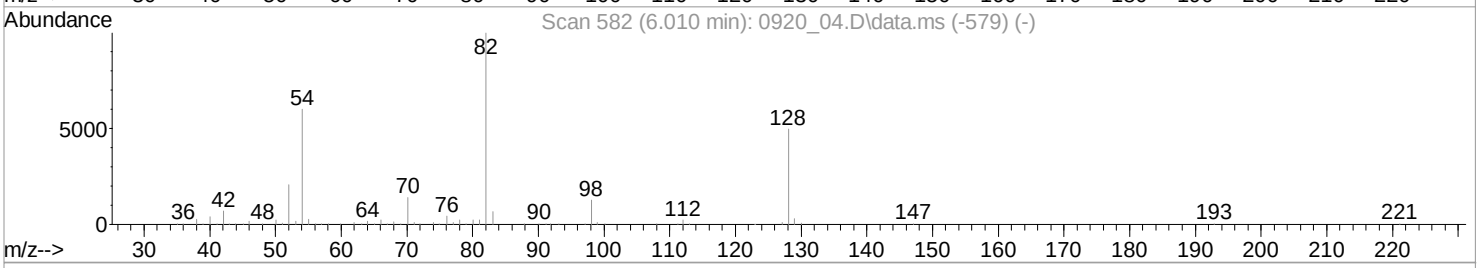
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\112014A\
Data File : 1120a 06.D
Acq On : 20 Nov 2014 8:27 pm
Operator : 377
Sample : STD SVMS 2K PPB 14K07412
Misc : 8270 PRIMARY CALIBRATION
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Nov 21 14:21:25 2014
Quant Method : C:\msdchem\1\methods\S819K21N.M
Quant Title : 8270 BNA
QLast Update : Fri Nov 21 14:21:01 2014
Response via : Initial Calibration







TIC: 1120a_06.D\data.ms

(23) Nitrobenzene-d5 (S)

5.913min (-0.000) 1905.5305997 ppb m

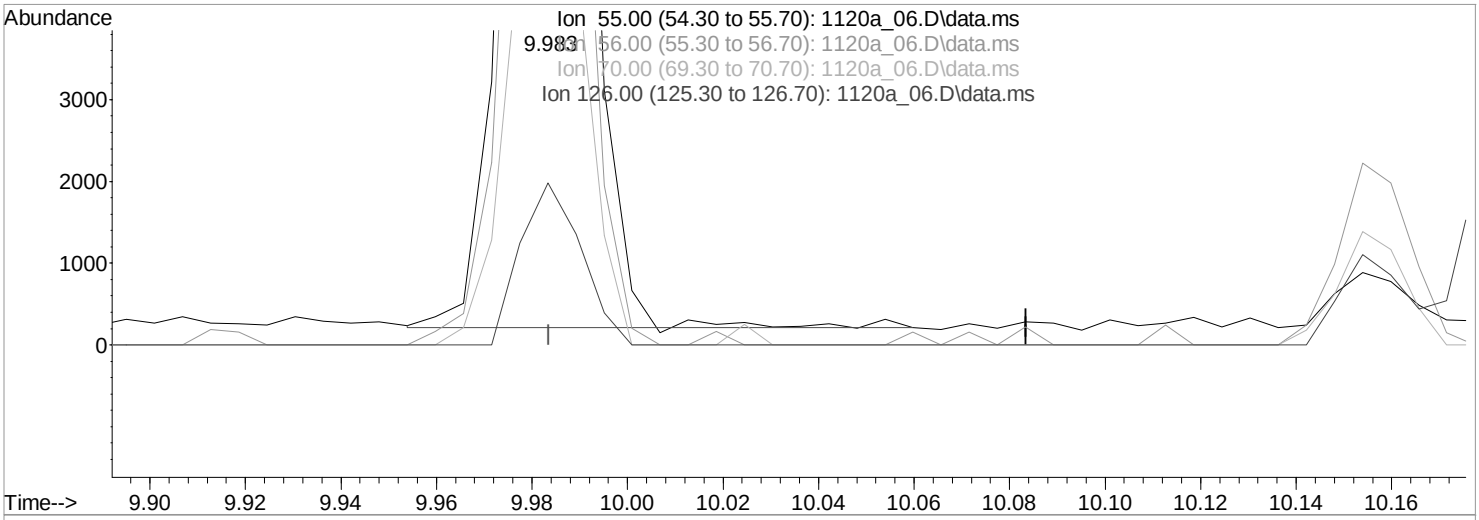
response 42354

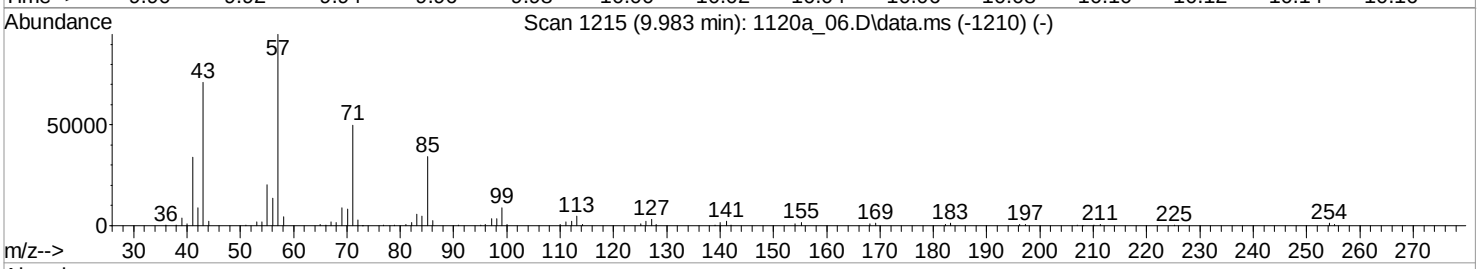
Ion	Exp%	Act%
82.00	100	100
128.00	49.50	48.64
54.00	57.40	57.21
98.00	11.70	12.12

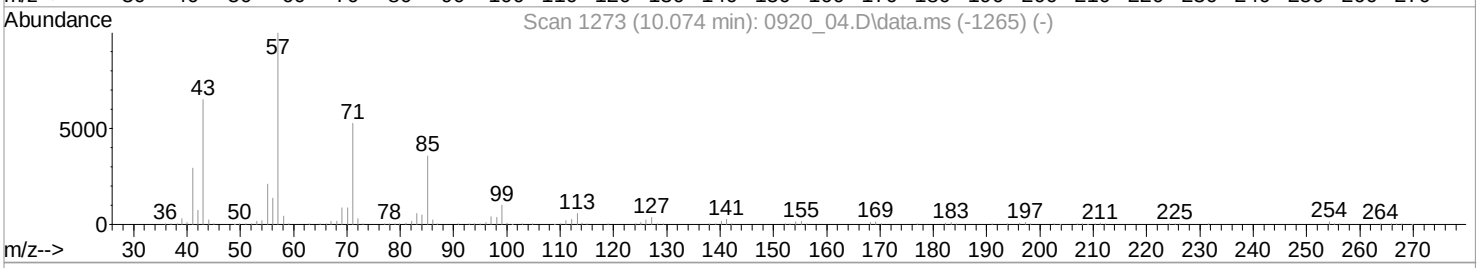
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\112014A\
Data File : 1120a 06.D
Acq On : 20 Nov 2014 8:27 pm
Operator : 377
Sample : STD SVMS 2K PPB 14K07412
Misc : 8270 PRIMARY CALIBRATION
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Nov 21 14:21:25 2014
Quant Method : C:\msdchem\1\methods\S819K21N.M
Quant Title : 8270 BNA
QLast Update : Fri Nov 21 14:21:01 2014
Response via : Initial Calibration







TIC: 1120a_06.D\data.ms

(70) n-octadecane (T)

9.983min (-0.000) 1856.3431950 ppb

Qvalue = 99

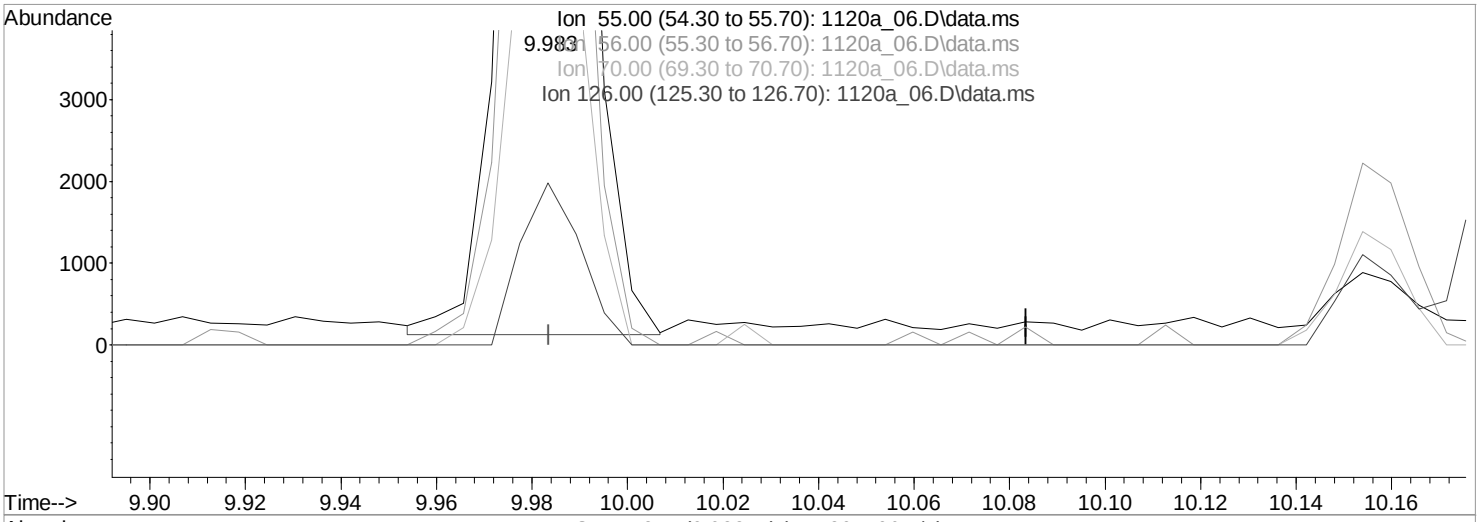
response 18471

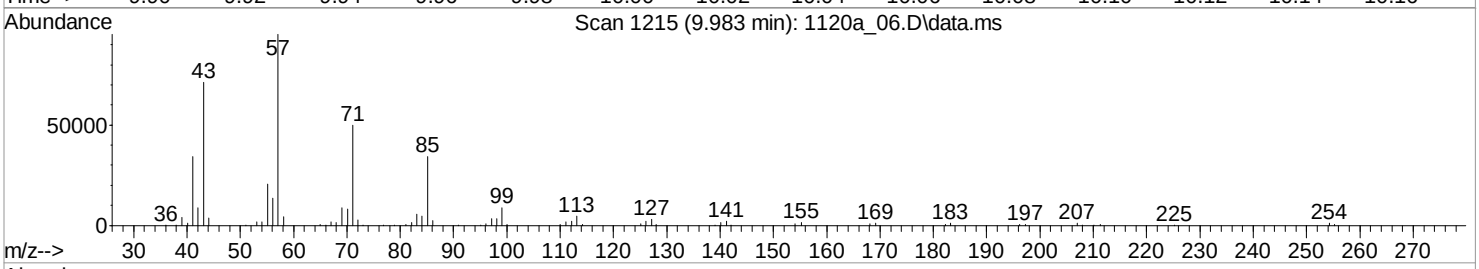
Ion	Exp%	Act%
55.00	100	100
56.00	65.40	66.02
70.00	39.80	40.24
126.00	9.50	9.73

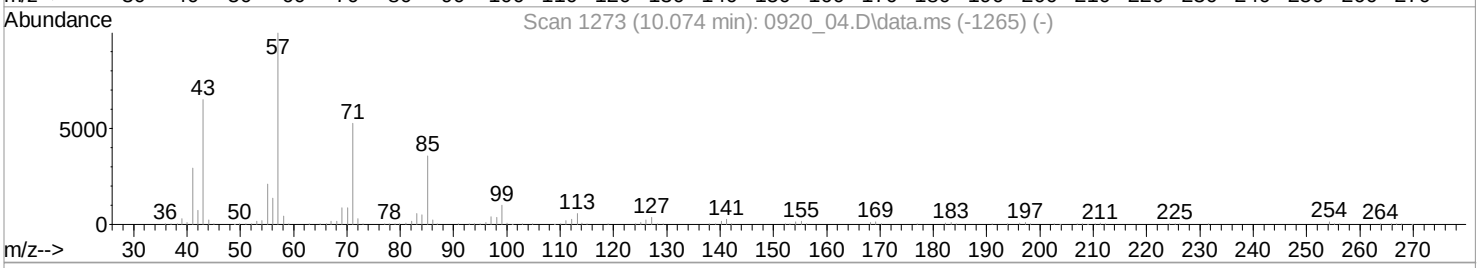
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\112014A\
Data File : 1120a 06.D
Acq On : 20 Nov 2014 8:27 pm
Operator : 377
Sample : STD SVMS 2K PPB 14K07412
Misc : 8270 PRIMARY CALIBRATION
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Nov 21 14:21:25 2014
Quant Method : C:\msdchem\1\methods\S819K21N.M
Quant Title : 8270 BNA
QLast Update : Fri Nov 21 14:21:01 2014
Response via : Initial Calibration







TIC: 1120a_06.D\data.ms

(70) n-octadecane (T)

9.983min (-0.000) 1870.4132533 ppb m

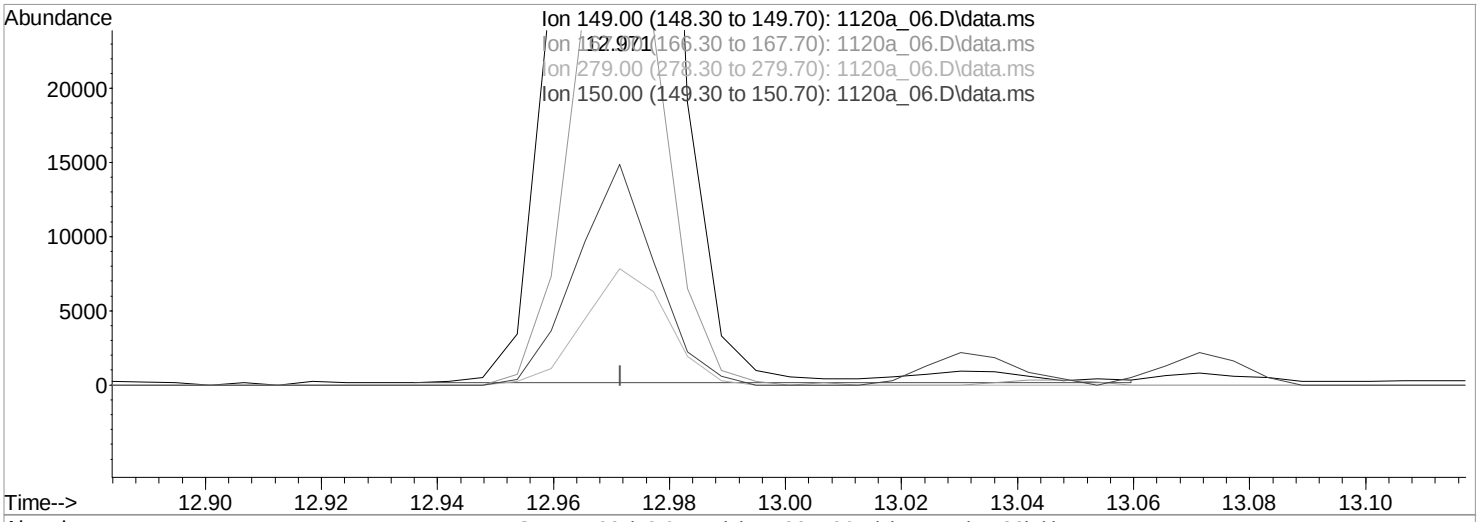
response 18611

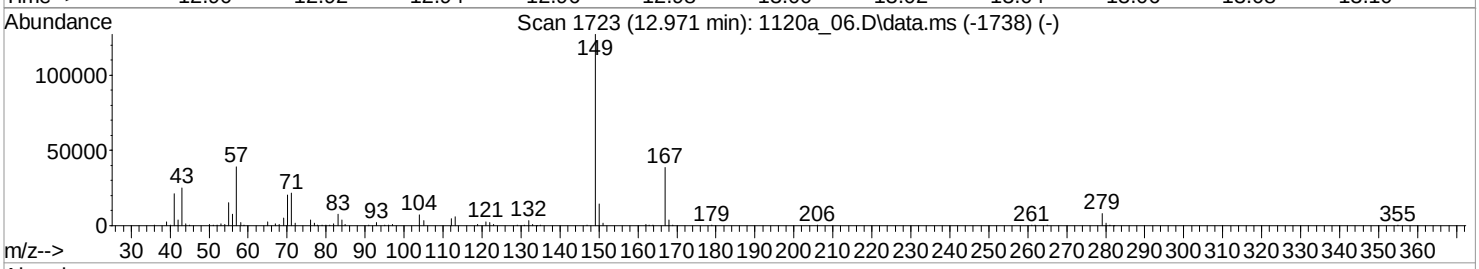
Ion	Exp%	Act%
55.00	100	100
56.00	65.40	65.33
70.00	39.80	39.82
126.00	9.50	9.63

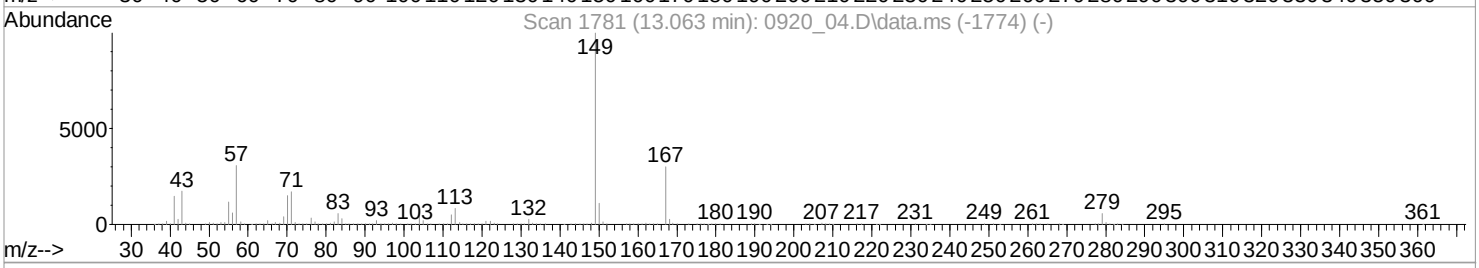
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\112014A\
Data File : 1120a 06.D
Acq On : 20 Nov 2014 8:27 pm
Operator : 377
Sample : STD SVMS 2K PPB 14K07412
Misc : 8270 PRIMARY CALIBRATION
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Nov 21 14:21:25 2014
Quant Method : C:\msdchem\1\methods\S819K21N.M
Quant Title : 8270 BNA
QLast Update : Fri Nov 21 14:21:01 2014
Response via : Initial Calibration







TIC: 1120a_06.D\data.ms

(86) bis(2-Ethylhexyl)phthalate (MT)

12.971min (-0.000) 1932.5248746 ppb

Qvalue = 99

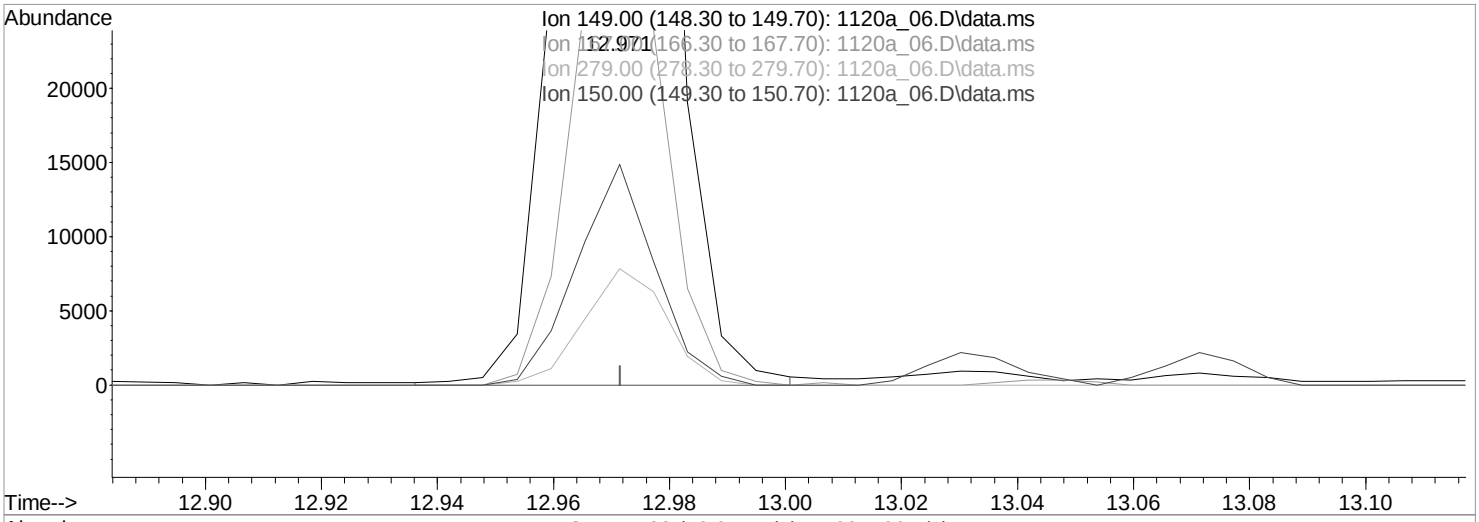
response 124174

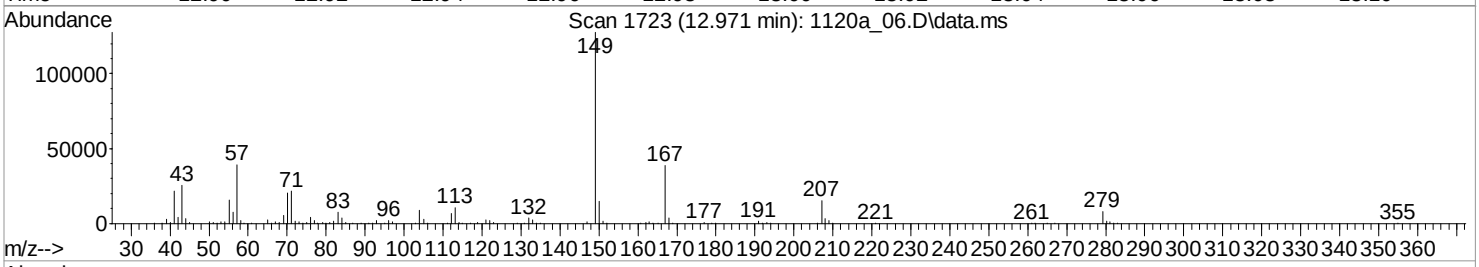
Ion	Exp%	Act%
149.00	100	100
167.00	29.60	30.39
279.00	6.10	6.13
150.00	11.40	11.67

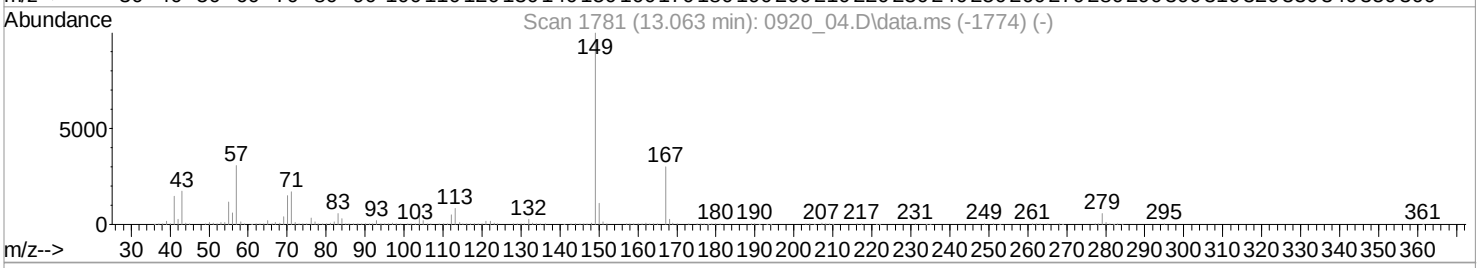
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\112014A\
Data File : 1120a 06.D
Acq On : 20 Nov 2014 8:27 pm
Operator : 377
Sample : STD SVMS 2K PPB 14K07412
Misc : 8270 PRIMARY CALIBRATION
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Nov 21 14:21:25 2014
Quant Method : C:\msdchem\1\methods\S819K21N.M
Quant Title : 8270 BNA
QLast Update : Fri Nov 21 14:21:01 2014
Response via : Initial Calibration







TIC: 1120a_06.D\data.ms

(86) bis(2-Ethylhexyl)phthalate (MT)

12.971min (-0.000) 1922.3466467 ppb m

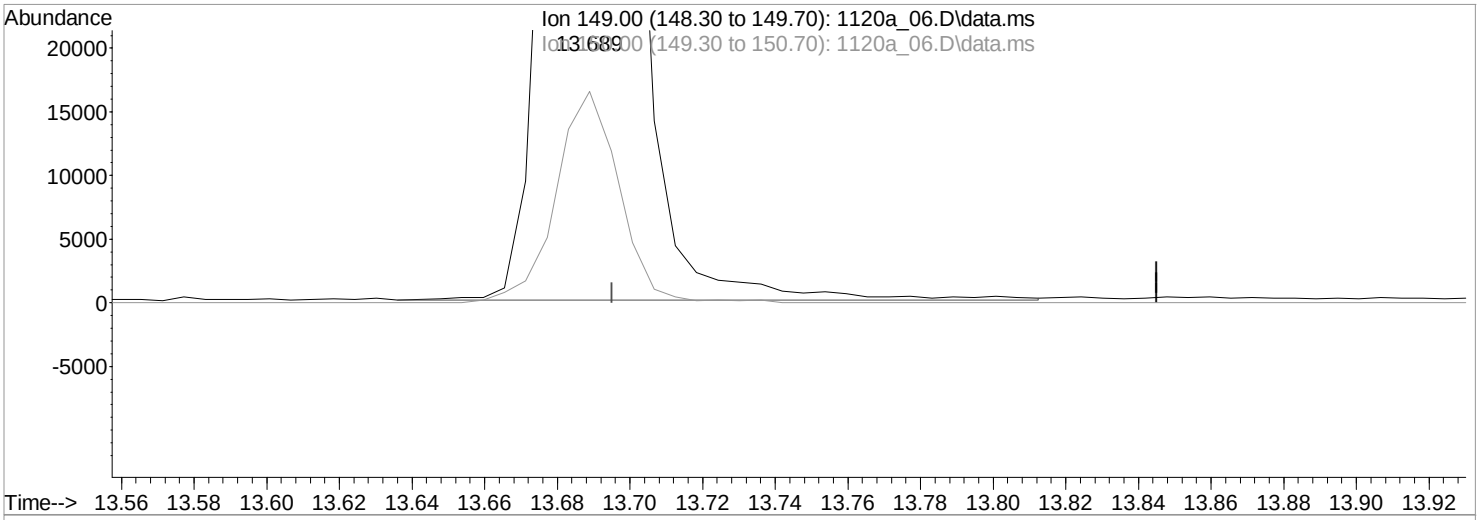
response 123520

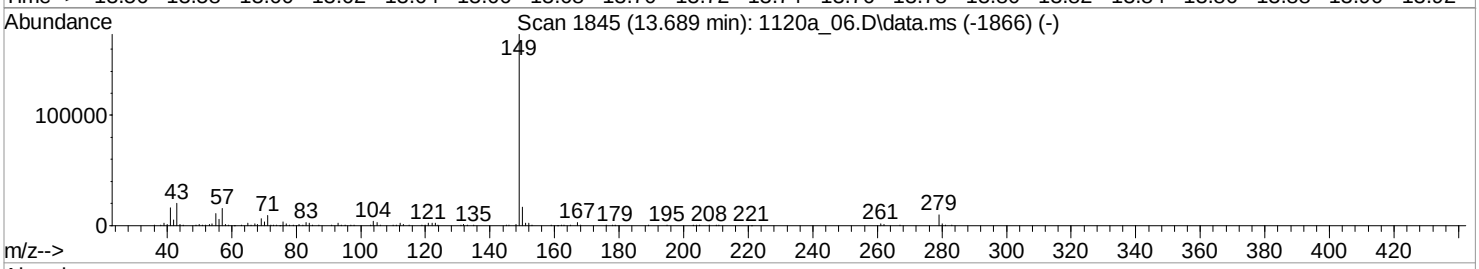
Ion	Exp%	Act%
149.00	100	100
167.00	29.60	30.35
279.00	6.10	6.12
150.00	11.40	11.66

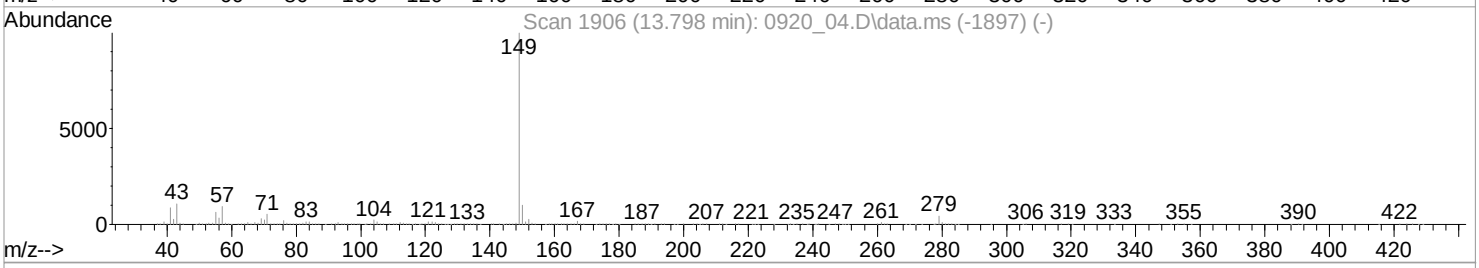
Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\data\112014A\
Data File : 1120a 06.D
Acq On    : 20 Nov 2014   8:27 pm
Operator  : 377
Sample    : STD SVMS 2K PPB 14K07412
Misc      : 8270 PRIMARY CALIBRATION
ALS Vial  : 6   Sample Multiplier: 1

Quant Time: Nov 21 14:21:25 2014
Quant Method : C:\msdchem\1\methods\S819K21N.M
Quant Title  : 8270 BNA
QLast Update : Fri Nov 21 14:21:01 2014
Response via : Initial Calibration
```







TIC: 1120a_06.D\data.ms

(87) Di-n-octyl phthalate (MC)

13.689min (-0.006) 1834.6710576 ppb

Qvalue = 100

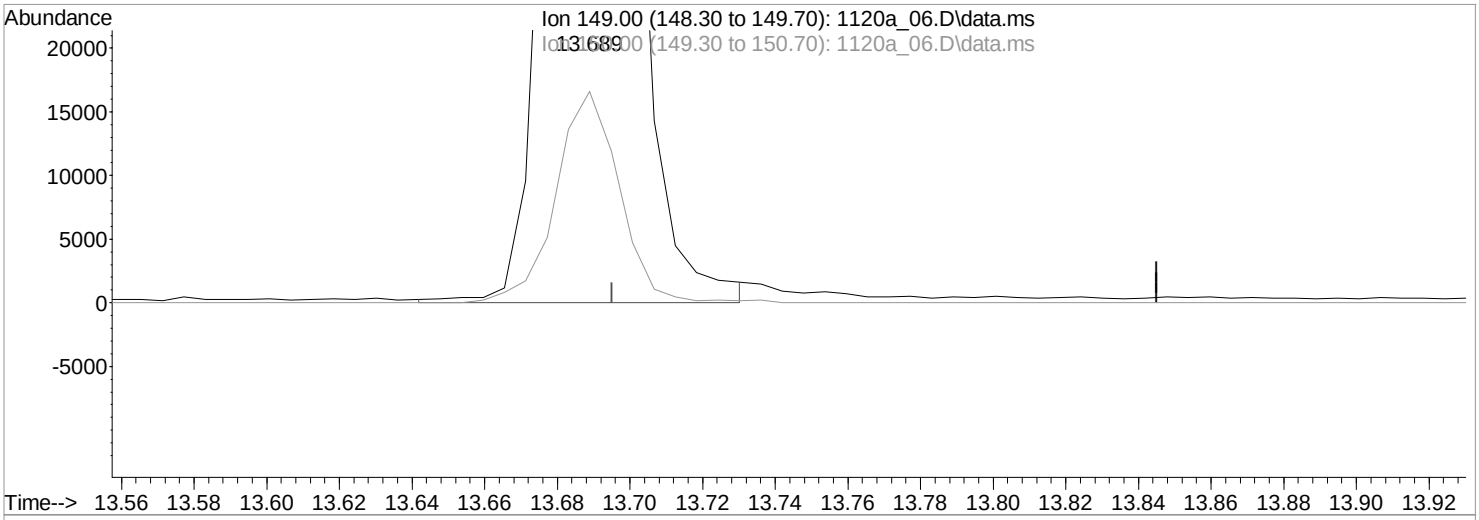
response 200441

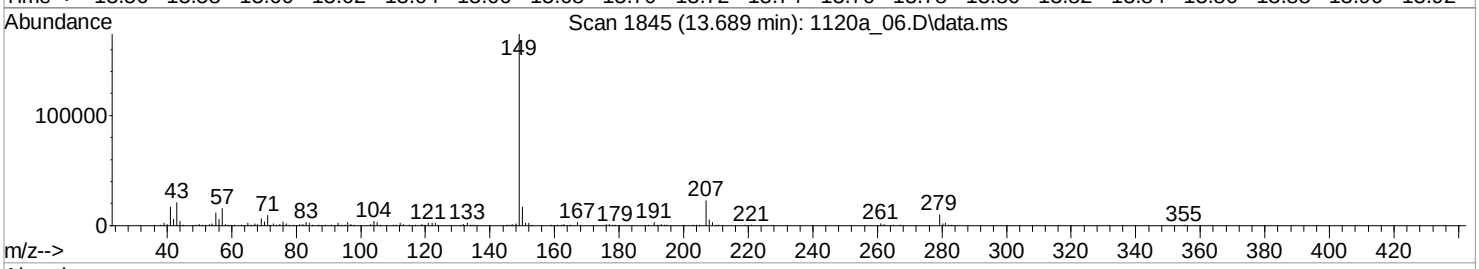
Ion	Exp%	Act%
149.00	100	100
150.00	9.70	9.54
0.00	0.00	0.00
0.00	0.00	0.00

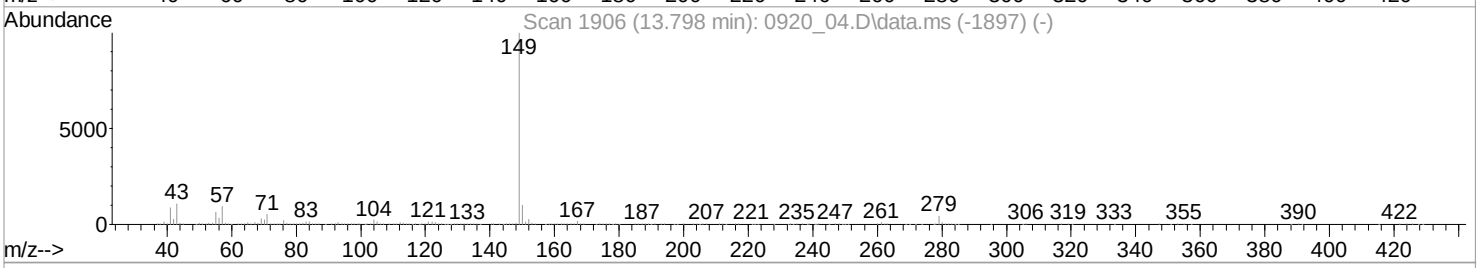
Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\data\112014A\
Data File : 1120a 06.D
Acq On    : 20 Nov 2014   8:27 pm
Operator  : 377
Sample    : STD SVMS 2K PPB 14K07412
Misc      : 8270 PRIMARY CALIBRATION
ALS Vial  : 6   Sample Multiplier: 1

Quant Time: Nov 21 14:21:25 2014
Quant Method : C:\msdchem\1\methods\S819K21N.M
Quant Title  : 8270 BNA
QLast Update : Fri Nov 21 14:21:01 2014
Response via : Initial Calibration
```







TIC: 1120a_06.D\data.ms

(87) Di-n-octyl phthalate (MC)

13.689min (-0.006) 1826.6345721 ppb m

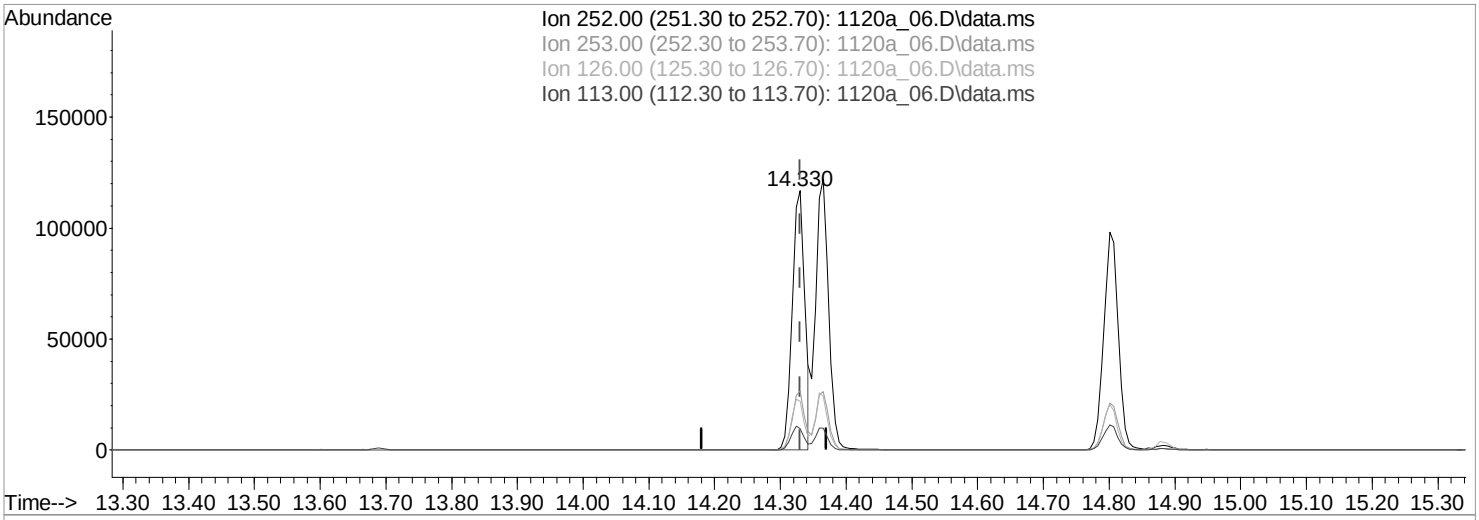
response 199563

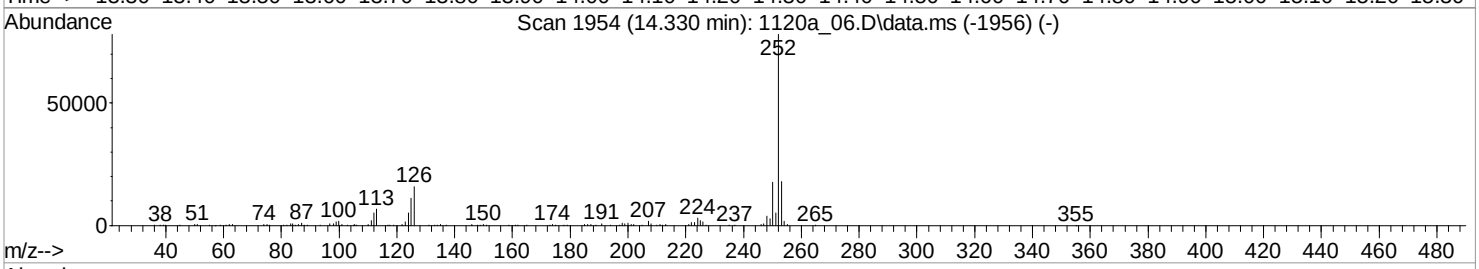
Ion	Exp%	Act%
149.00	100	100
150.00	9.70	9.53
0.00	0.00	0.00
0.00	0.00	0.00

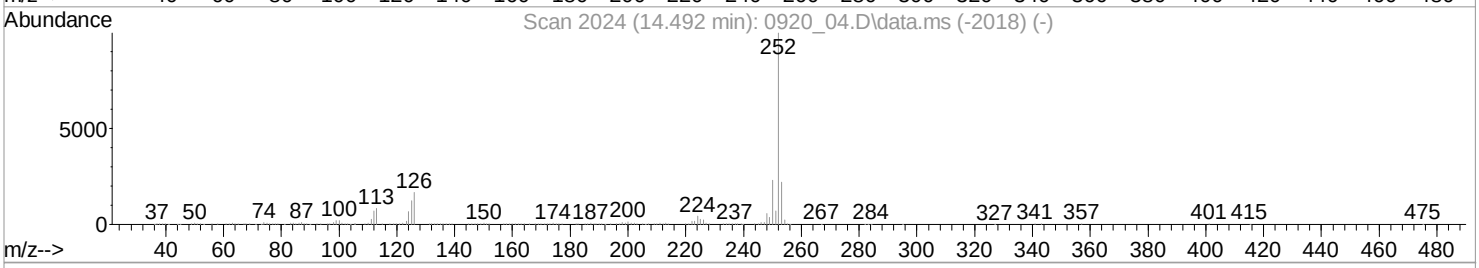
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\112014A\
Data File : 1120a 06.D
Acq On : 20 Nov 2014 8:27 pm
Operator : 377
Sample : STD SVMS 2K PPB 14K07412
Misc : 8270 PRIMARY CALIBRATION
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Nov 21 14:21:25 2014
Quant Method : C:\msdchem\1\methods\S819K21N.M
Quant Title : 8270 BNA
QLast Update : Fri Nov 21 14:21:01 2014
Response via : Initial Calibration







TIC: 1120a_06.D\data.ms

(89) Benzo(b)fluoranthene (MT)

14.330min (-0.000) 1881.6306994 ppb

Qvalue = 98

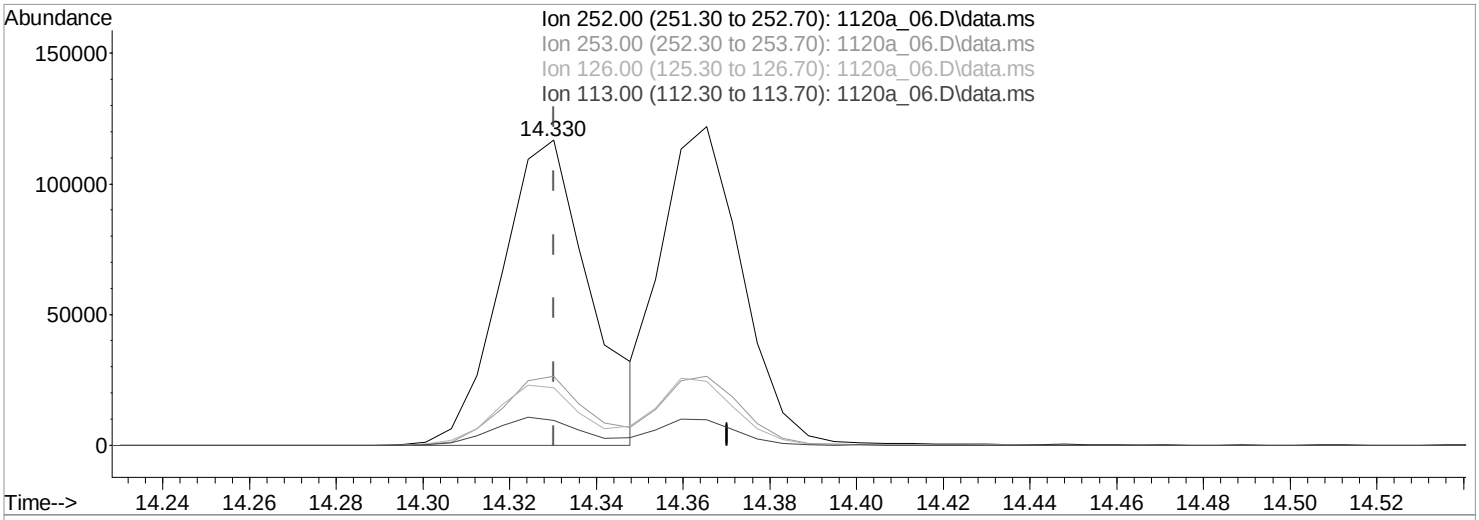
response 155557

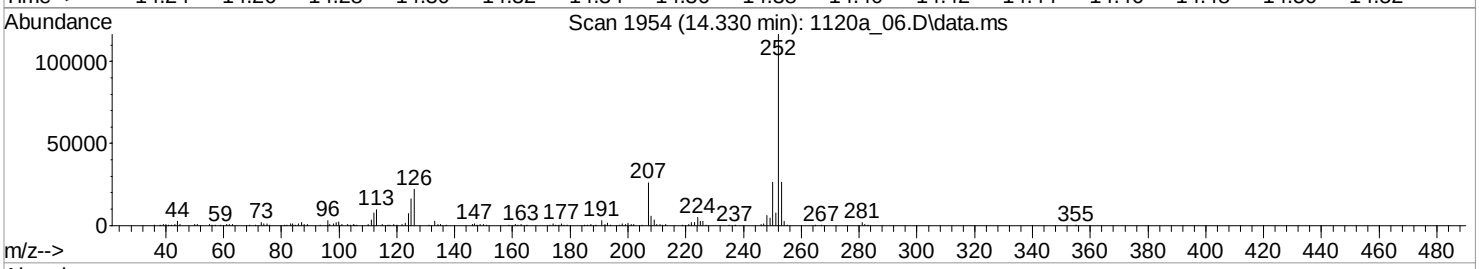
Ion	Exp%	Act%
252.00	100	100
253.00	22.10	22.70
126.00	20.10	18.83
113.00	9.60	8.12

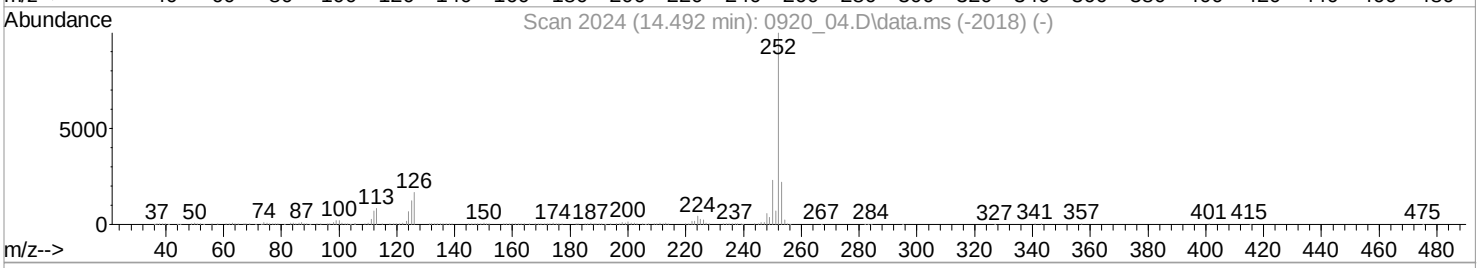
Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\data\112014A\
Data File : 1120a 06.D
Acq On    : 20 Nov 2014   8:27 pm
Operator  : 377
Sample    : STD SVMS 2K PPB 14K07412
Misc      : 8270 PRIMARY CALIBRATION
ALS Vial  : 6   Sample Multiplier: 1

Quant Time: Nov 21 14:21:25 2014
Quant Method : C:\msdchem\1\methods\S819K21N.M
Quant Title  : 8270 BNA
QLast Update : Fri Nov 21 14:21:01 2014
Response via : Initial Calibration
```







TIC: 1120a_06.D\data.ms

(89) Benzo(b)fluoranthene (MT)

14.330min (-0.000) 2018.7398233 ppb m

response 166892

Ion	Exp%	Act%
252.00	100	100
253.00	22.10	22.70
126.00	20.10	18.83
113.00	9.60	8.12

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\112014A\
Data File : 1120a 07.D
Acq On : 20 Nov 2014 8:51 pm
Operator : 377
Sample : STD SVMS 5K PPB 14K07412
Misc : 8270 PRIMARY CALIBRATION
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Nov 21 14:38:55 2014
Quant Method : C:\msdchem\1\methods\S819K21N.M
Quant Title : 8270 BNA
QLast Update : Fri Nov 21 14:21:01 2014
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 1,4-Dichlorobenzene-d4	5.384	152	128141	8000.0000000 ppb	0.00
22) Naphthalene-d8	6.654	136	566122	8000.0000000 ppb	0.00
40) Acenaphthene-d10	8.537	164	359710	8000.0000000 ppb	0.00
64) Phenanthrene-d10	10.160	188	625494	8000.0000000 ppb	0.00
78) Chrysene-d12	13.048	240	619953	8000.0000000 ppb	0.00
88) Perylene-d12	14.883	264	667900	8000.0000000 ppb	0.00
System Monitoring Compounds					
4) 2-Fluorophenol	4.260	112	91050	4889.8284271 ppb	0.00
Spiked Amount 20.000	Range 10 - 78		Recovery = 24449.14%#		
7) Phenol-d5	4.996	99	121143	4972.4252088 ppb	0.00
Spiked Amount 20.000	Range 5 - 70		Recovery = 24862.13%#		
23) Nitrobenzene-d5	5.913	82	107988m	4769.2578421 ppb	0.00
Spiked Amount 10.000	Range 22 - 123		Recovery = 47692.58%#		
44) 2-Fluorobiphenyl	7.795	172	244153	4804.9458577 ppb	0.00
Spiked Amount 10.000	Range 30 - 131		Recovery = 48049.46%#		
67) 2,4,6-Tribromophenol	9.389	330	31132	4538.7773405 ppb	0.00
Spiked Amount 20.000	Range 11 - 130		Recovery = 22693.89%#		
81) p-Terphenyl-d14	11.872	244	309217	4994.0086749 ppb	0.00
Spiked Amount 10.000	Range 29 - 137		Recovery = 49940.09%#		
Target Compounds					Qvalue
2) Pyridine	3.313	79	124745	4949.9769636 ppb	99
3) N-Nitrosodimethylamine	3.284	74	59117	4699.8196095 ppb	97
5) Aniline	5.072	66	57506	4857.0442228 ppb	94
6) bis(2-Chloroethyl)ether	5.113	63	84984	4958.1846092 ppb	96
8) Phenol	5.007	94	124784	4959.3657225 ppb	97
9) Benzaldehyde	0.000		0	N.D. d	
10) 2-Chlorophenol	5.184	128	108600	4840.2764980 ppb	99
11) n-Decane	5.207	55	25023	5196.3297194 ppb	95
12) 1,3-Dichlorobenzene	5.337	146	121429	4962.9452243 ppb	99
13) 1,4-Dichlorobenzene	5.401	146	124180	5028.5953825 ppb	99
14) Benzyl Alcohol	5.490	79	85843	4926.1909094 ppb	98
15) 1,2-Dichlorobenzene	5.549	146	119421	5010.0529767 ppb	99
16) bis(2-Chloroisopropyl)...	5.625	121	36343	5035.0777011 ppb #	93
17) 2-Methylphenol	5.578	108	98066	4927.4673561 ppb	99
18) Hexachloroethane	5.884	117	53305	4991.9788713 ppb	98
19) N-Nitrosodi-n-propylamine	5.743	70	66564	4909.1294304 ppb	95
20) 3&4-Methyl phenol	5.719	107	106836	4883.4218141 ppb	96
21) Acetophenone	0.000		0	N.D.	
24) Nitrobenzene	5.931	77	111550	4901.5652001 ppb	98
25) Isophorone	6.166	82	195595	4852.6211798 ppb	98
26) 2-Nitrophenol	6.254	139	53796	4726.8446004 ppb	97
27) 2,4-Dimethylphenol	6.266	107	105877	4846.8330266 ppb	97
28) bis(2-Chlorethoxy)methane	6.372	93	132653	4847.8168404 ppb	100
29) 2,4-Dichlorophenol	6.490	162	88523	4869.9820970 ppb	97
30) Benzoic Acid	0.000		0	N.D.	
31) 1,2,4-Trichlorobenzene	6.590	180	101615	4981.8827750 ppb	98
32) Naphthalene	6.678	128	341901	4881.2112653 ppb	100
33) 4-Chloroaniline	6.713	65	41352	4896.4033697 ppb	100
34) Hexachloro-1,3-butadiene	6.801	225	54867	4860.1011053 ppb	98
35) Caprolactam	0.000		0	N.D. d	
36) 4-Chloro-3-methylphenol	7.201	107	91015	4779.8143833 ppb	99
37) 2-Methylnaphthalene	7.407	142	235844	4895.4784361 ppb	100

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\112014A\
Data File : 1120a 07.D
Acq On : 20 Nov 2014 8:51 pm
Operator : 377
Sample : STD SVMS 5K PPB 14K07412
Misc : 8270 PRIMARY CALIBRATION
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Nov 21 14:38:55 2014
Quant Method : C:\msdchem\1\methods\S819K21N.M
Quant Title : 8270 BNA
QLast Update : Fri Nov 21 14:21:01 2014
Response via : Initial Calibration

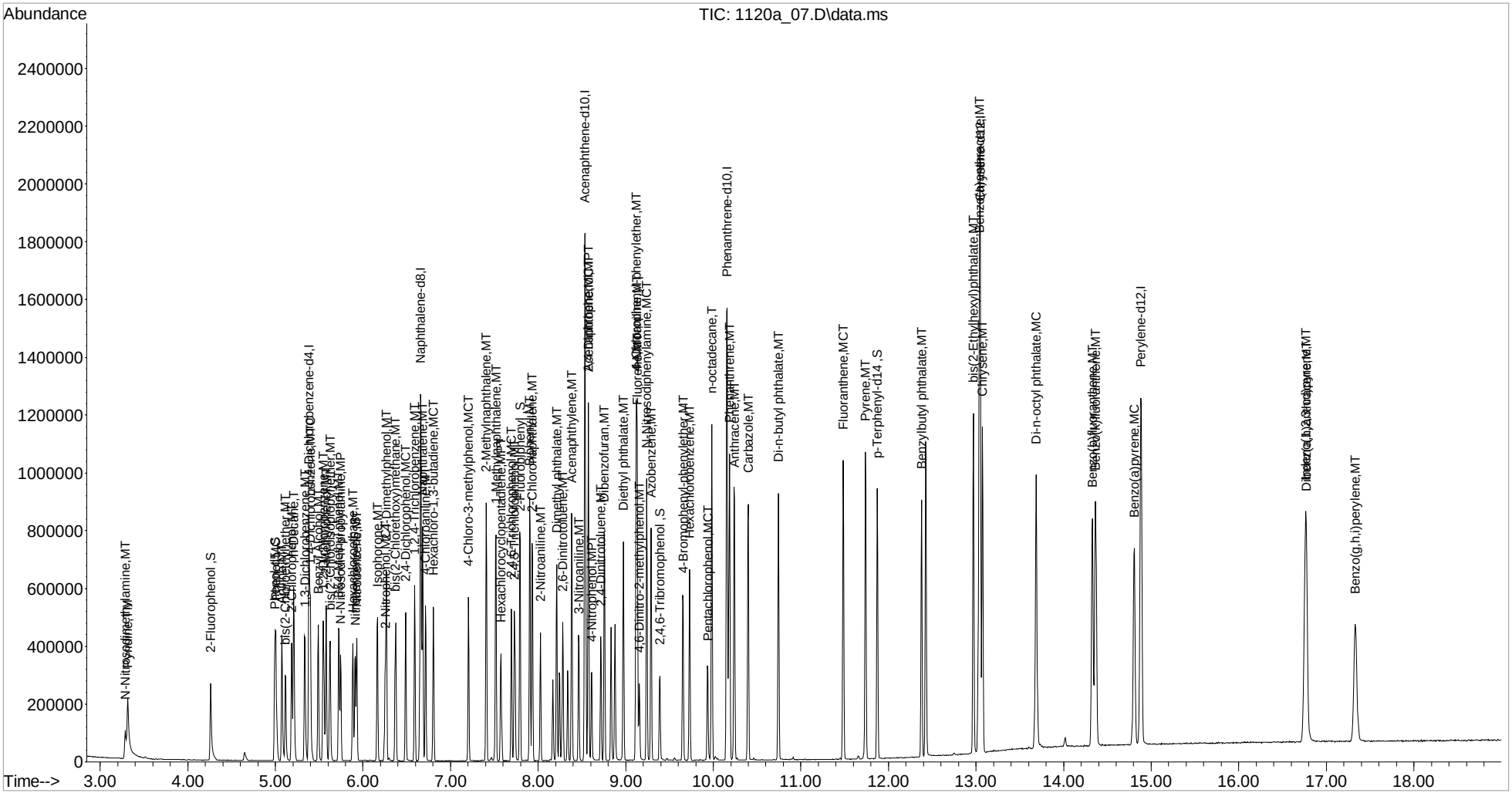
Compound	R.T.	QIon	Response	Conc Units		Dev(Min)
38) 1-Methylnaphthalene	7.519	142	220263	4856.0161310 ppb		100
39) 1,2,4,5-Tetrachloroben...	0.000		0	N.D.		
41) Hexachlorocyclopentadiene	7.578	237	55796	4657.1691905 ppb		99
42) 2,4,6-Trichlorophenol	7.695	196	60000	4712.3248800 ppb		98
43) 2,4,5-Trichlorophenol	7.731	196	65603	4662.3639655 ppb		97
45) Biphenyl	7.901	154	280004	4822.4120810 ppb		99
46) 2-Chloronaphthalene	7.931	162	218142	4874.5152572 ppb		98
47) 2-Nitroaniline	8.025	138	69000	4571.9993313 ppb		100
48) Acenaphthylene	8.384	152	348503	4867.1886668 ppb		99
49) Dimethyl phthalate	8.213	163	250061	4856.6477352 ppb		97
50) 2,6-Dinitrotoluene	8.278	165	56426	4730.6549964 ppb		93
51) 3-Nitroaniline	8.466	138	65027	4646.9859876 ppb		95
52) Acenaphthene	8.572	153	236717	4860.1359999 ppb		100
53) 2,4-Dinitrophenol	8.572	184	21090	4153.3080093 ppb	#	1
54) Dibenzofuran	8.754	168	312604	4818.6473015 ppb		98
55) 2,4-Dinitrotoluene	8.713	165	72508	4672.3185040 ppb		90
56) 2,3,4,6-Tetrachlorophenol	0.000		0	N.D. d		
57) 4-Nitrophenol	8.613	139	49762	4574.4043767 ppb		95
58) Fluorene	9.131	166	265806	4849.7460619 ppb		99
59) 4-Chlorophenyl-phenyle...	9.119	204	119271	4819.2972374 ppb		97
60) Diethyl phthalate	8.972	149	264815	4819.5336832 ppb		100
61) 4-Nitroaniline	9.125	138	68761	4998.8636224 ppb		97
62) Azobenzene	9.289	77	277506	4860.4089427 ppb		98
63) Atrazine	0.000		0	N.D.		
65) 4,6-Dinitro-2-methylph...	9.154	198	32293	4310.8266454 ppb		86
66) N-Nitrosodiphenylamine	9.237	169	217992	4777.1243215 ppb		99
68) 4-Bromophenyl-phenylether	9.654	248	67508	4823.6017410 ppb		96
69) Hexachlorobenzene	9.731	284	76838	4911.6388982 ppb		99
70) n-octadecane	9.984	55	49137	4758.6614269 ppb		98
71) Pentachlorophenol	9.936	266	36919	4566.8288236 ppb		99
72) Phenanthrene	10.184	178	390229	4818.8931012 ppb		99
73) Anthracene	10.242	178	394435	4810.2062351 ppb		99
74) Carbazole	10.401	167	370741	4809.1279559 ppb		99
75) Di-n-butyl phthalate	10.742	149	466795	4645.7759350 ppb		99
76) 2-nitrodiphenylamine	0.000		0	N.D. d		
77) Fluoranthene	11.483	202	412740	4618.3058172 ppb		99
79) Benzidine	0.000		0	N.D. d		
80) Pyrene	11.736	202	443108	4933.8684456 ppb		100
82) Benzylbutyl phthalate	12.378	149	210461	4750.4666143 ppb		96
83) 3,3-Dichlorobenzidine	0.000		0	N.D.		
84) Benzo(a)anthracene	13.036	228	421010	4951.5414641 ppb		99
85) Chrysene	13.072	228	388005	4953.7977901 ppb		99
86) bis(2-Ethylhexyl)phtha...	12.972	149	318707	4796.2195906 ppb		99
87) Di-n-octyl phthalate	13.689	149	533358	4720.6684308 ppb		99
89) Benzo(b)fluoranthene	14.330	252	424531m	5002.1209102 ppb		
90) Benzo(k)fluoranthene	14.366	252	402769	4633.8698755 ppb		98
91) Benzo(a)pyrene	14.807	252	390938	4730.8558784 ppb		99
92) Indeno(1,2,3-cd)pyrene	16.765	276	430679	4788.3870473 ppb		99
93) Dibenz(a,h)anthracene	16.771	278	366328	4800.4799130 ppb		98
94) Benzo(g,h,i)perylene	17.330	276	360911	4797.8743003 ppb		98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\112014A\
Data File : 1120a 07.D
Acq On : 20 Nov 2014 8:51 pm
Operator : 377
Sample : STD SVMS 5K PPB 14K07412
Misc : 8270 PRIMARY CALIBRATION
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Nov 21 14:38:55 2014
Quant Method : C:\msdchem\1\methods\S819K21N.M
Quant Title : 8270 BNA
QLast Update : Fri Nov 21 14:21:01 2014
Response via : Initial Calibration

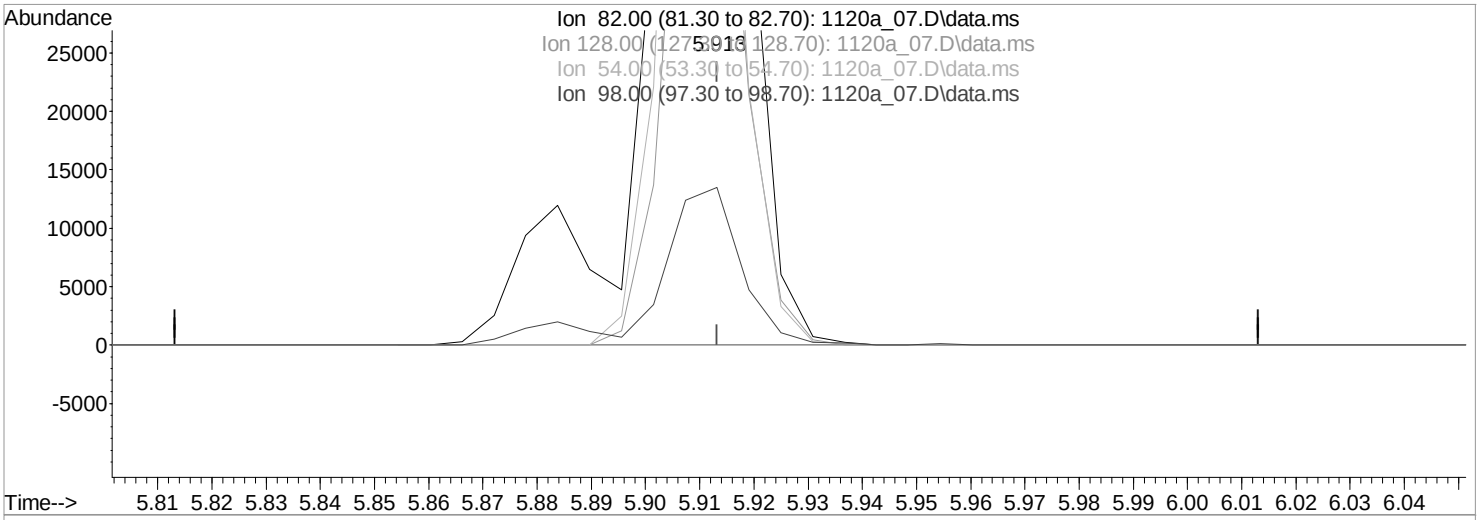


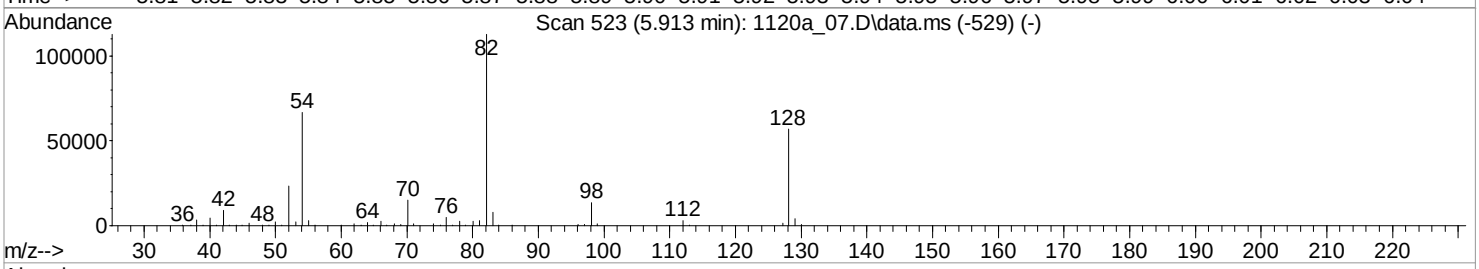
PDF Generated On: 11/21/2014 -- By: Chris McCord

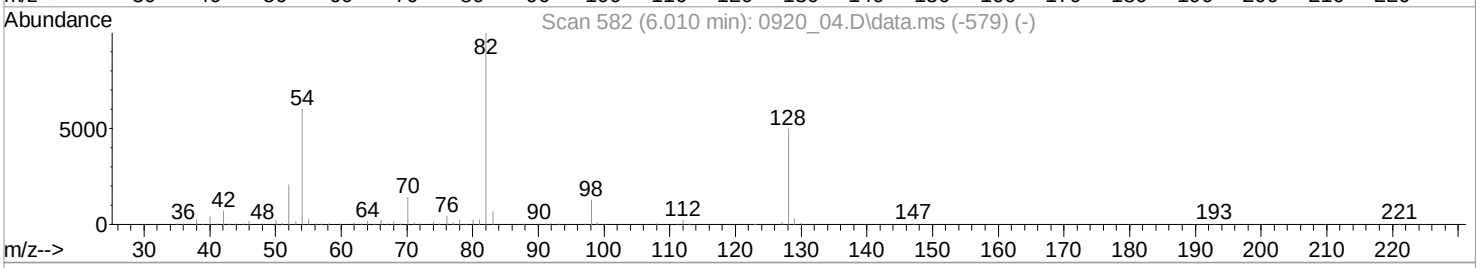
Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\data\112014A\
Data File : 1120a 07.D
Acq On    : 20 Nov 2014   8:51 pm
Operator  : 377
Sample    : STD SVMS 5K PPB 14K07412
Misc      : 8270 PRIMARY CALIBRATION
ALS Vial  : 7   Sample Multiplier: 1

Quant Time: Nov 21 14:21:28 2014
Quant Method : C:\msdchem\1\methods\S819K21N.M
Quant Title  : 8270 BNA
QLast Update : Fri Nov 21 14:21:01 2014
Response via : Initial Calibration
```







TIC: 1120a_07.D\data.ms

(23) Nitrobenzene-d5 (S)

5.913min (+0.000) 5321.0516292 ppb

Qvalue = 98

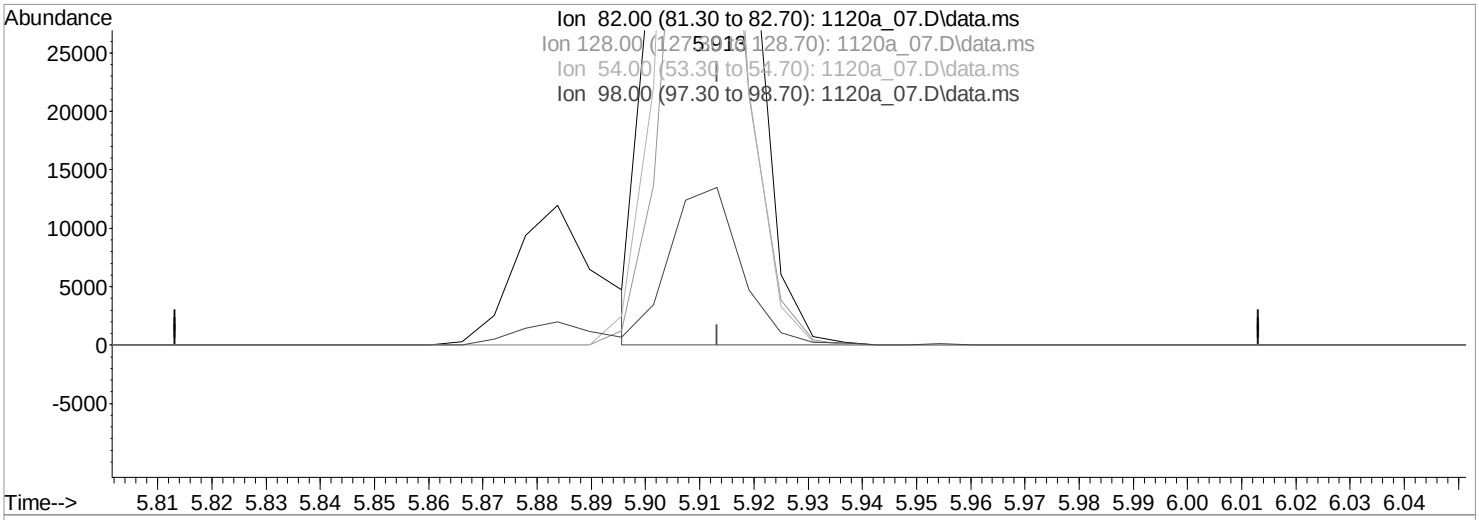
response 120482

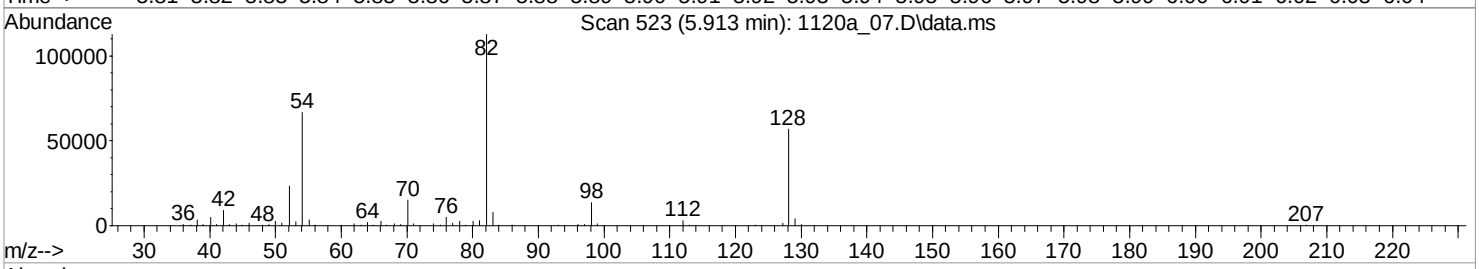
Ion	Exp%	Act%
82.00	100	100
128.00	49.50	50.29
54.00	57.40	59.13
98.00	11.70	11.96

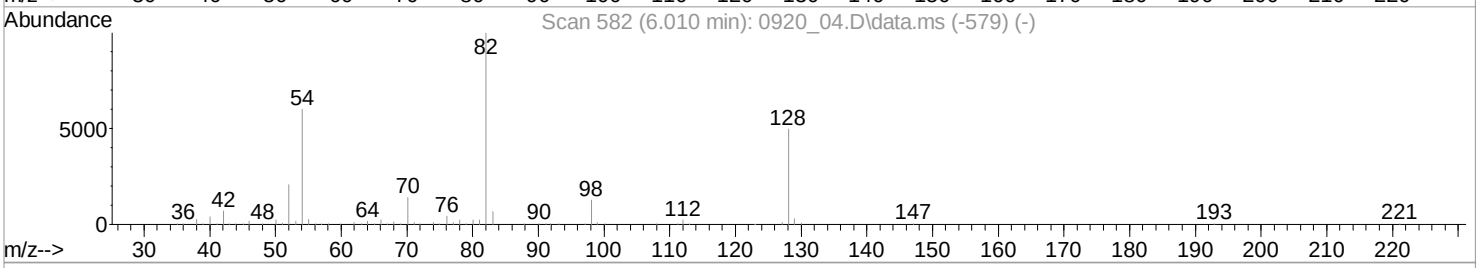
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\112014A\
Data File : 1120a 07.D
Acq On : 20 Nov 2014 8:51 pm
Operator : 377
Sample : STD SVMS 5K PPB 14K07412
Misc : 8270 PRIMARY CALIBRATION
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Nov 21 14:21:28 2014
Quant Method : C:\msdchem\1\methods\S819K21N.M
Quant Title : 8270 BNA
QLast Update : Fri Nov 21 14:21:01 2014
Response via : Initial Calibration







TIC: 1120a_07.D\data.ms

(23) Nitrobenzene-d5 (S)

5.913min (+0.000) 4769.2578421 ppb m

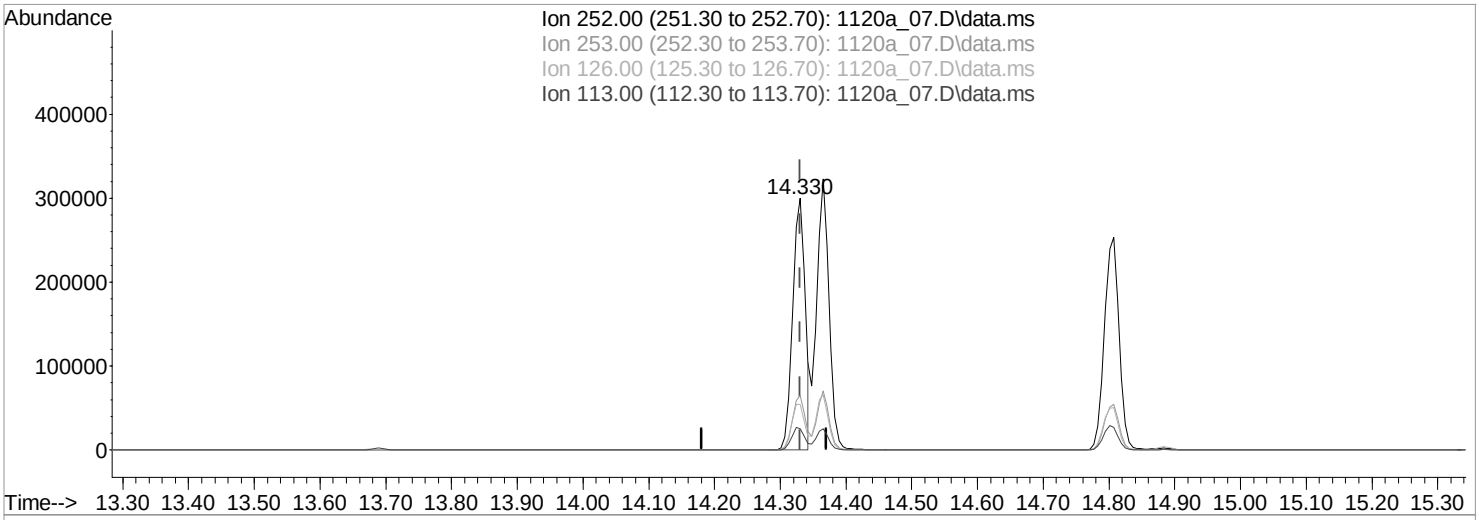
response 107988

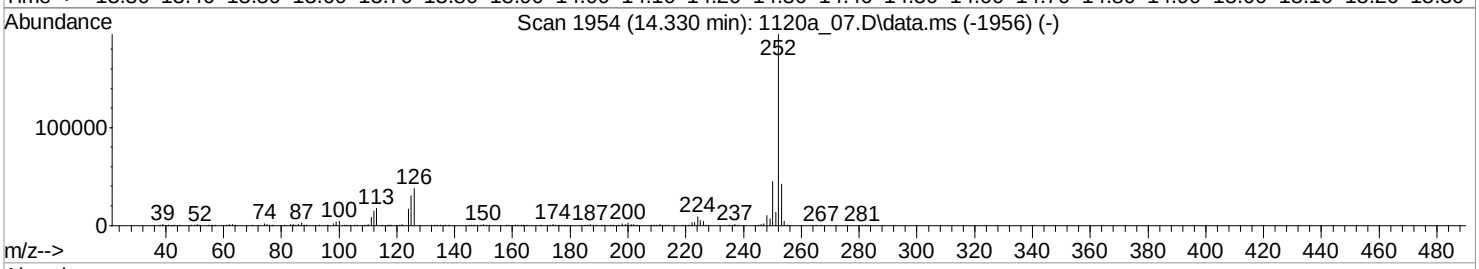
Ion	Exp%	Act%
82.00	100	100
128.00	49.50	50.29
54.00	57.40	59.13
98.00	11.70	11.96

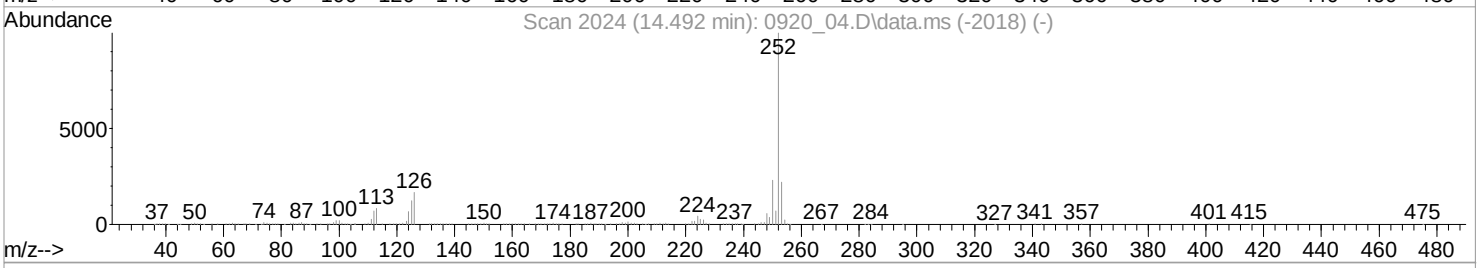
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\112014A\
Data File : 1120a 07.D
Acq On : 20 Nov 2014 8:51 pm
Operator : 377
Sample : STD SVMS 5K PPB 14K07412
Misc : 8270 PRIMARY CALIBRATION
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Nov 21 14:21:28 2014
Quant Method : C:\msdchem\1\methods\S819K21N.M
Quant Title : 8270 BNA
QLast Update : Fri Nov 21 14:21:01 2014
Response via : Initial Calibration







TIC: 1120a_07.D\data.ms

(89) Benzo(b)fluoranthene (MT)

14.330min (+0.000) 4684.4122194 ppb

Qvalue = 97

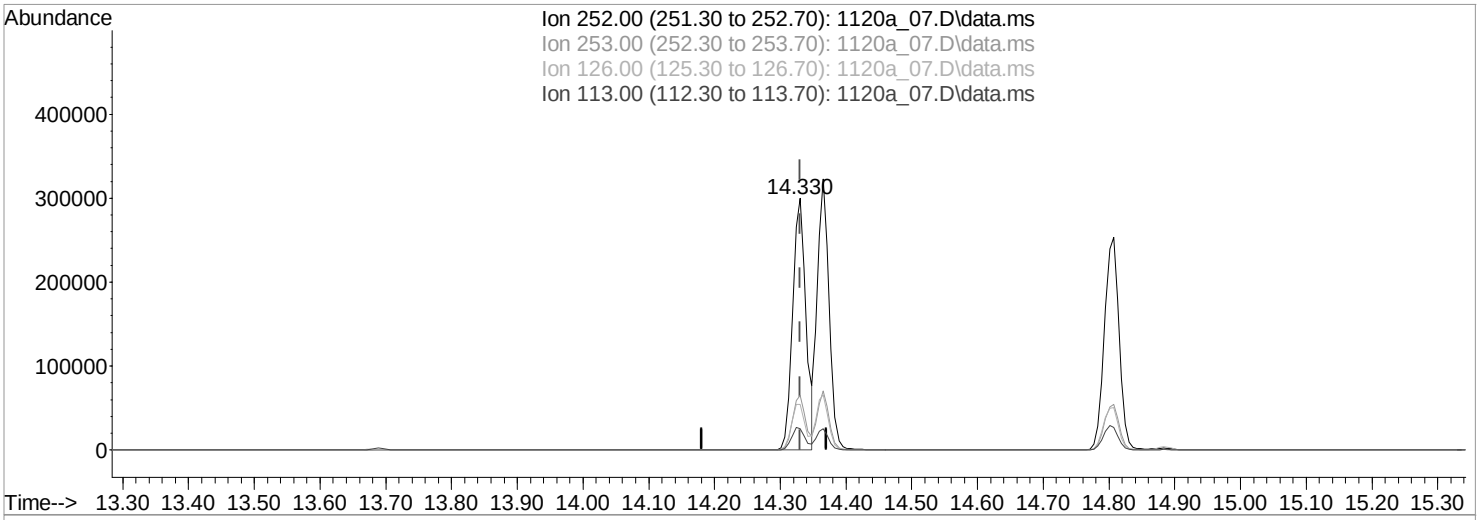
response 397567

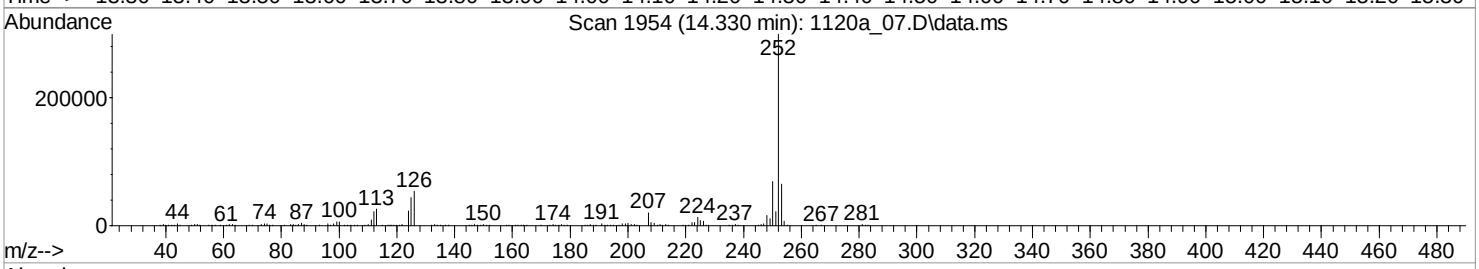
Ion	Exp%	Act%
252.00	100	100
253.00	22.10	21.72
126.00	20.10	18.02
113.00	9.60	8.51

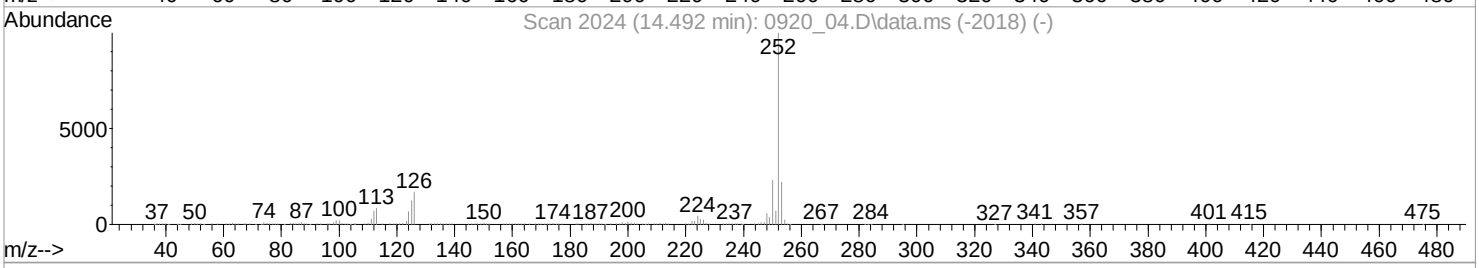
Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\data\112014A\
Data File : 1120a 07.D
Acq On    : 20 Nov 2014   8:51 pm
Operator  : 377
Sample    : STD SVMS 5K PPB 14K07412
Misc      : 8270 PRIMARY CALIBRATION
ALS Vial  : 7   Sample Multiplier: 1

Quant Time: Nov 21 14:21:28 2014
Quant Method : C:\msdchem\1\methods\S819K21N.M
Quant Title  : 8270 BNA
QLast Update : Fri Nov 21 14:21:01 2014
Response via : Initial Calibration
```







TIC: 1120a_07.D\data.ms

(89) Benzo(b)fluoranthene (MT)

14.330min (+0.000) 5002.1209102 ppb m

response 424531

Ion	Exp%	Act%
252.00	100	100
253.00	22.10	21.72
126.00	20.10	18.02
113.00	9.60	8.51

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\112014A\
Data File : 1120a 08.D
Acq On : 20 Nov 2014 9:15 pm
Operator : 377
Sample : STD SVMS 20K PPB 14K07412
Misc : 8270 PRIMARY CALIBRATION
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Nov 21 14:40:25 2014
Quant Method : C:\msdchem\1\methods\S819K21N.M
Quant Title : 8270 BNA
QLast Update : Fri Nov 21 14:21:01 2014
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 1,4-Dichlorobenzene-d4	5.384	152	133163	8000.0000000 ppb	0.00
22) Naphthalene-d8	6.660	136	580368	8000.0000000 ppb	0.00
40) Acenaphthene-d10	8.537	164	365876	8000.0000000 ppb	0.00
64) Phenanthrene-d10	10.160	188	629714	8000.0000000 ppb	0.00
78) Chrysene-d12	13.048	240	647084	8000.0000000 ppb	0.00
88) Perylene-d12	14.883	264	664938	8000.0000000 ppb	0.00
System Monitoring Compounds					
4) 2-Fluorophenol	4.260	112	396416	20486.5762285 ppb	0.00
Spiked Amount 20.000	Range 10 - 78		Recovery	= 102432.88%#	
7) Phenol-d5	4.996	99	518575	20482.6455347 ppb	0.00
Spiked Amount 20.000	Range 5 - 70		Recovery	= 102413.23%#	
23) Nitrobenzene-d5	5.913	82	476907	20545.4460958 ppb	0.00
Spiked Amount 10.000	Range 22 - 123		Recovery	= 205454.46%#	
44) 2-Fluorobiphenyl	7.795	172	1040970	20141.1023335 ppb	0.00
Spiked Amount 10.000	Range 30 - 131		Recovery	= 201411.02%#	
67) 2,4,6-Tribromophenol	9.389	330	148140	21452.8005901 ppb	0.00
Spiked Amount 20.000	Range 11 - 130		Recovery	= 107264.00%#	
81) p-Terphenyl-d14	11.878	244	1329722	20575.2390012 ppb	0.00
Spiked Amount 10.000	Range 29 - 137		Recovery	= 205752.39%#	
Target Compounds					Qvalue
2) Pyridine	3.313	79	536601	20489.7210677 ppb	97
3) N-Nitrosodimethylamine	3.284	74	270040	20658.6262962 ppb	99
5) Aniline	5.078	66	248449	20192.9927282 ppb	96
6) bis(2-Chloroethyl)ether	5.119	63	357578	20075.2449723 ppb	99
8) Phenol	5.007	94	530656	20294.8034761 ppb	99
9) Benzaldehyde	0.000		0	N.D. d	
10) 2-Chlorophenol	5.184	128	465199	19951.8723032 ppb	97
11) n-Decane	5.207	55	100216	20026.2174218 ppb	98
12) 1,3-Dichlorobenzene	5.337	146	514247	20225.2253106 ppb	99
13) 1,4-Dichlorobenzene	5.401	146	524988	20457.3300264 ppb	99
14) Benzyl Alcohol	5.490	79	375479	20734.6420522 ppb	98
15) 1,2-Dichlorobenzene	5.548	146	507312	20480.5345659 ppb	99
16) bis(2-Chloroisopropyl)...	5.625	121	152206	20291.8532932 ppb #	91
17) 2-Methylphenol	5.578	108	416758	20150.8689153 ppb	99
18) Hexachloroethane	5.884	117	227128	20468.2166716 ppb	100
19) N-Nitrosodi-n-propylamine	5.748	70	289146	20520.4460844 ppb	99
20) 3&4-Methyl phenol	5.725	107	460058	20235.9568496 ppb	98
21) Acetophenone	0.000		0	N.D.	
24) Nitrobenzene	5.931	77	479985	20573.0863311 ppb	98
25) Isophorone	6.166	82	842371	20385.8404826 ppb	100
26) 2-Nitrophenol	6.254	139	253584	21734.5053962 ppb	97
27) 2,4-Dimethylphenol	6.266	107	449475	20070.9785216 ppb	98
28) bis(2-Chlorethoxy)methane	6.372	93	565252	20150.1279523 ppb	99
29) 2,4-Dichlorophenol	6.490	162	389443	20898.8176661 ppb	99
30) Benzoic Acid	0.000		0	N.D. d	
31) 1,2,4-Trichlorobenzene	6.596	180	432673	20691.9800664 ppb	97
32) Naphthalene	6.684	128	1435422	19990.0281534 ppb	99
33) 4-Chloroaniline	6.719	65	176965	20439.7049848 ppb #	79
34) Hexachloro-1,3-butadiene	6.801	225	232319	20073.6058662 ppb	100
35) Caprolactam	0.000		0	N.D. d	
36) 4-Chloro-3-methylphenol	7.201	107	410556	21031.8286832 ppb	98
37) 2-Methylnaphthalene	7.413	142	1015798	20567.6293381 ppb	99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\112014A\
Data File : 1120a 08.D
Acq On : 20 Nov 2014 9:15 pm
Operator : 377
Sample : STD SVMS 20K PPB 14K07412
Misc : 8270 PRIMARY CALIBRATION
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Nov 21 14:40:25 2014
Quant Method : C:\msdchem\1\methods\S819K21N.M
Quant Title : 8270 BNA
QLast Update : Fri Nov 21 14:21:01 2014
Response via : Initial Calibration

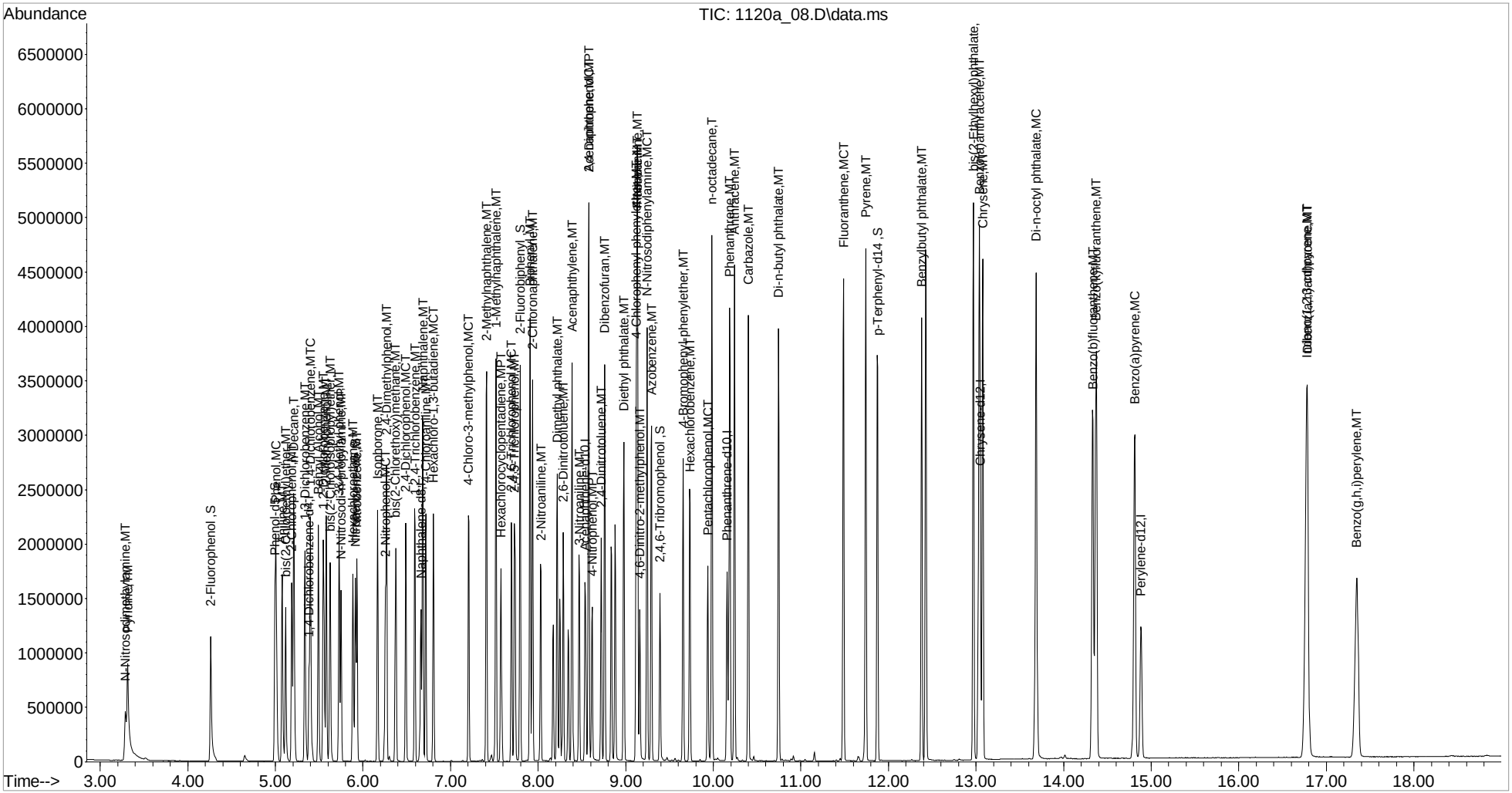
Compound	R.T.	QIon	Response	Conc Units		Dev(Min)
38) 1-Methylnaphthalene	7.519	142	954131	20518.8563409 ppb		98
39) 1,2,4,5-Tetrachloroben...	0.000		0	N.D. d		
41) Hexachlorocyclopentadiene	7.578	237	260199	21352.2262325 ppb		99
42) 2,4,6-Trichlorophenol	7.695	196	273921	21150.8532157 ppb		99
43) 2,4,5-Trichlorophenol	7.731	196	301443	21062.3228687 ppb		99
45) Biphenyl	7.907	154	1188126	20117.8317561 ppb		99
46) 2-Chloronaphthalene	7.937	162	923951	20298.3002542 ppb		99
47) 2-Nitroaniline	8.031	138	336224	21903.0385258 ppb		90
48) Acenaphthylene	8.390	152	1495600	20535.5200532 ppb		99
49) Dimethyl phthalate	8.219	163	1057638	20195.1124527 ppb		99
50) 2,6-Dinitrotoluene	8.284	165	258002	21265.8954023 ppb		95
51) 3-Nitroaniline	8.472	138	296041	20799.2701633 ppb		94
52) Acenaphthene	8.578	153	998726	20159.6932247 ppb		98
53) 2,4-Dinitrophenol	8.578	184	124856	24173.8357091 ppb	#	92
54) Dibenzofuran	8.760	168	1334851	20229.3528130 ppb		99
55) 2,4-Dinitrotoluene	8.719	165	337076	21354.6734537 ppb		96
56) 2,3,4,6-Tetrachlorophenol	0.000		0	N.D. d		
57) 4-Nitrophenol	8.619	139	227770	20585.0457925 ppb		96
58) Fluorene	9.131	166	1133935	20340.4692836 ppb		99
59) 4-Chlorophenyl-phenyle...	9.119	204	505817	20093.7439035 ppb		97
60) Diethyl phthalate	8.978	149	1122227	20079.9090244 ppb		99
61) 4-Nitroaniline	9.131	138	246950	17650.4882766 ppb		98
62) Azobenzene	9.295	77	1197019	20611.9968143 ppb		94
63) Atrazine	0.000		0	N.D.		
65) 4,6-Dinitro-2-methylph...	9.160	198	169736	22506.3945849 ppb		89
66) N-Nitrosodiphenylamine	9.242	169	935773	20369.3090442 ppb		100
68) 4-Bromophenyl-phenylether	9.654	248	295857	20997.9960667 ppb		99
69) Hexachlorobenzene	9.736	284	322766	20493.5859443 ppb		99
70) n-octadecane	9.984	55	208447	20051.7193352 ppb		99
71) Pentachlorophenol	9.936	266	180281	22151.0624812 ppb		98
72) Phenanthrene	10.184	178	1635706	20063.7818610 ppb		99
73) Anthracene	10.242	178	1701261	20608.1495668 ppb		99
74) Carbazole	10.401	167	1530193	19716.1323892 ppb		99
75) Di-n-butyl phthalate	10.742	149	2058751	20352.4026903 ppb		100
76) 2-nitrodiphenylamine	0.000		0	N.D. d		
77) Fluoranthene	11.489	202	1809476	20111.2356389 ppb		99
79) Benzidine	0.000		0	N.D.		
80) Pyrene	11.742	202	1889792	20159.9794532 ppb		99
82) Benzylbutyl phthalate	12.377	149	980482	21203.2468902 ppb		99
83) 3,3-Dichlorobenzidine	0.000		0	N.D.		
84) Benzo(a)anthracene	13.036	228	1816253	20465.5046316 ppb		100
85) Chrysene	13.077	228	1705709	20864.3086345 ppb		99
86) bis(2-Ethylhexyl)phtha...	12.972	149	1447530	20870.5134729 ppb		98
87) Di-n-octyl phthalate	13.689	149	2450563	20780.1491555 ppb		100
89) Benzo(b)fluoranthene	14.336	252	1881725m	22270.5643271 ppb		
90) Benzo(k)fluoranthene	14.371	252	1706858	19724.9304273 ppb		99
91) Benzo(a)pyrene	14.813	252	1708911	20772.1555903 ppb		99
92) Indeno(1,2,3-cd)pyrene	16.777	276	1843016	20582.3494556 ppb		97
93) Dibenz(a,h)anthracene	16.783	278	1569937	20664.6025855 ppb		98
94) Benzo(g,h,i)perylene	17.348	276	1533059	20470.9457108 ppb		98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\112014A\
Data File : 1120a 08.D
Acq On : 20 Nov 2014 9:15 pm
Operator : 377
Sample : STD SVMS 20K PPB 14K07412
Misc : 8270 PRIMARY CALIBRATION
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Nov 21 14:40:25 2014
Quant Method : C:\msdchem\1\methods\S819K21N.M
Quant Title : 8270 BNA
QLast Update : Fri Nov 21 14:21:01 2014
Response via : Initial Calibration

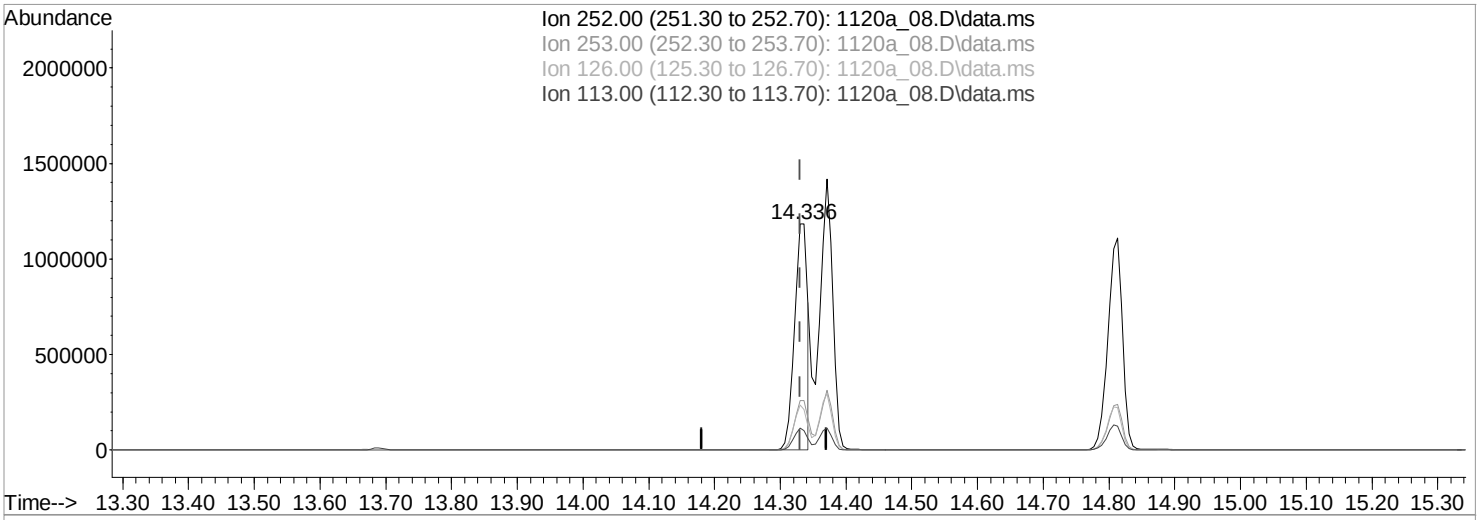


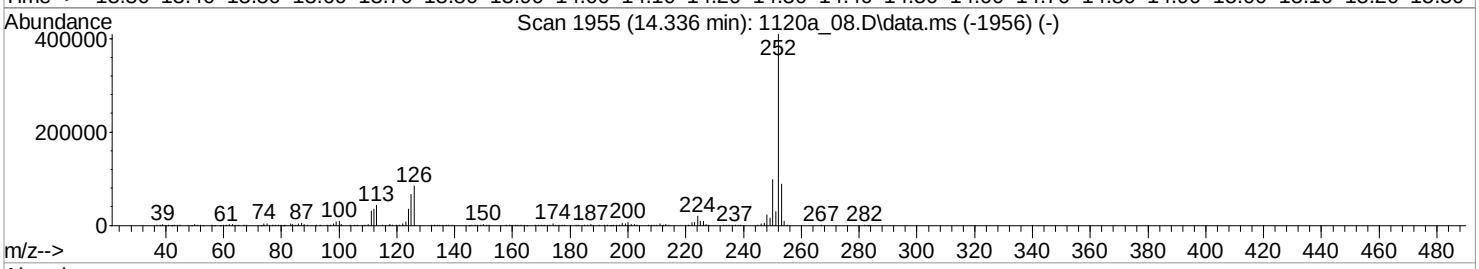
PDF Generated On: 11/21/2014 -- By: Chris McCord

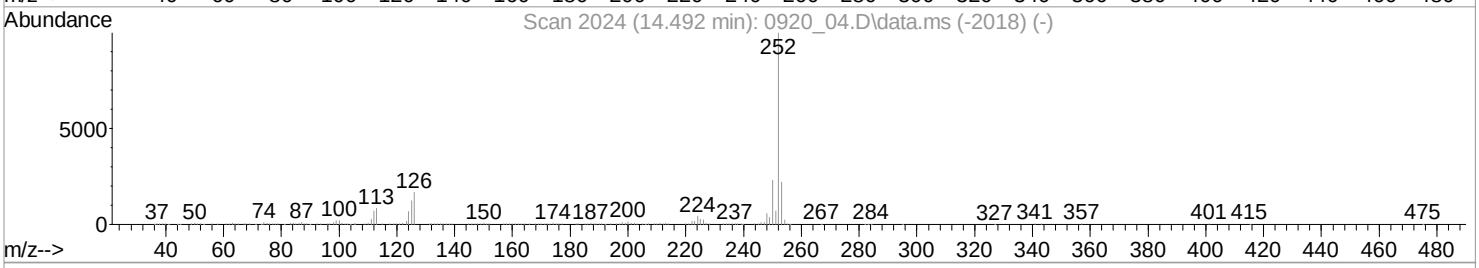
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\112014A\
Data File : 1120a 08.D
Acq On : 20 Nov 2014 9:15 pm
Operator : 377
Sample : STD SVMS 20K PPB 14K07412
Misc : 8270 PRIMARY CALIBRATION
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Nov 21 14:21:31 2014
Quant Method : C:\msdchem\1\methods\S819K21N.M
Quant Title : 8270 BNA
QLast Update : Fri Nov 21 14:21:01 2014
Response via : Initial Calibration







TIC: 1120a_08.D\data.ms

(89) Benzo(b)fluoranthene (MT)

14.336min (+0.006) 19247.0650076 ppb

Qvalue = 98

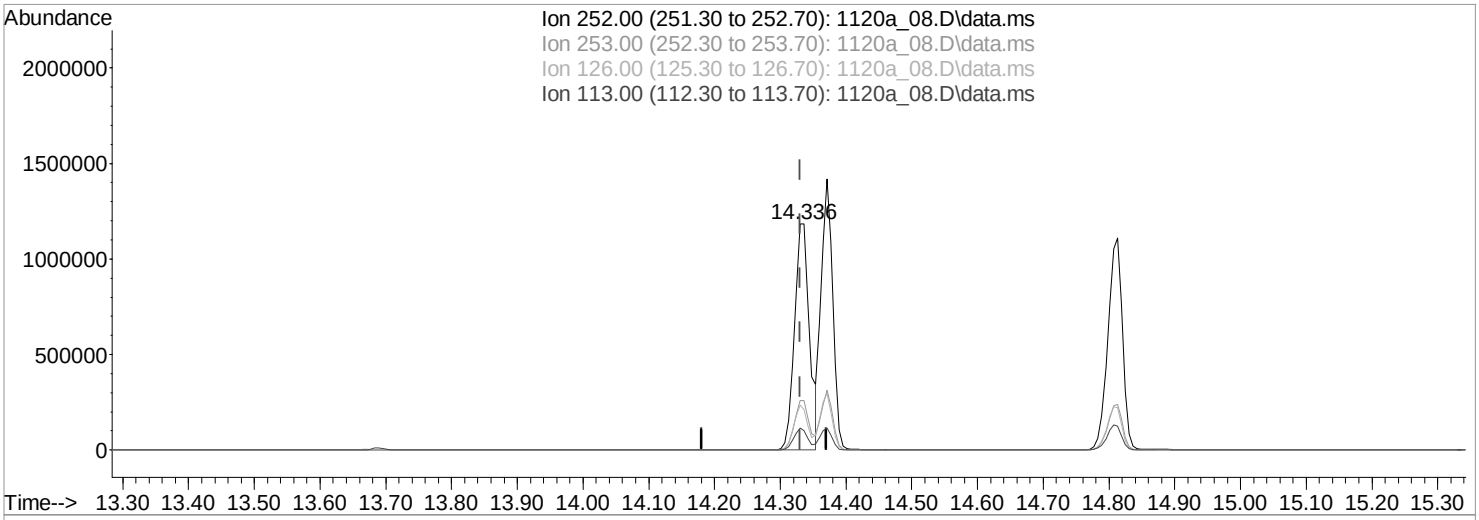
response 1626258

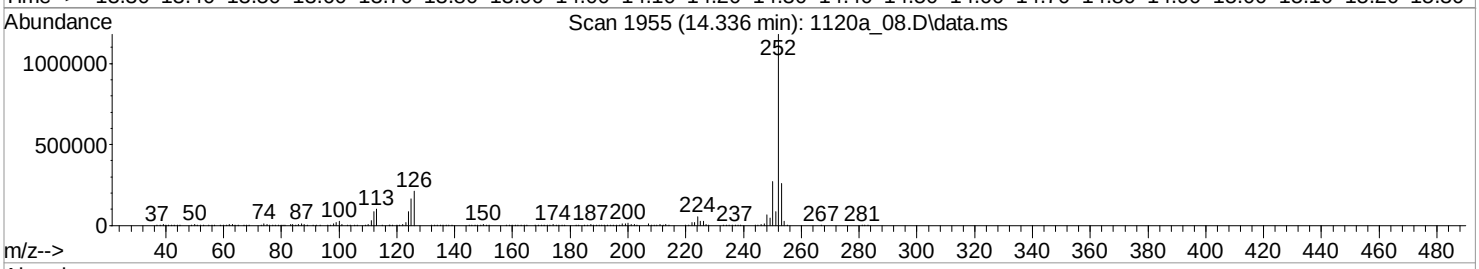
Ion	Exp%	Act%
252.00	100	100
253.00	22.10	21.76
126.00	20.10	18.05
113.00	9.60	8.69

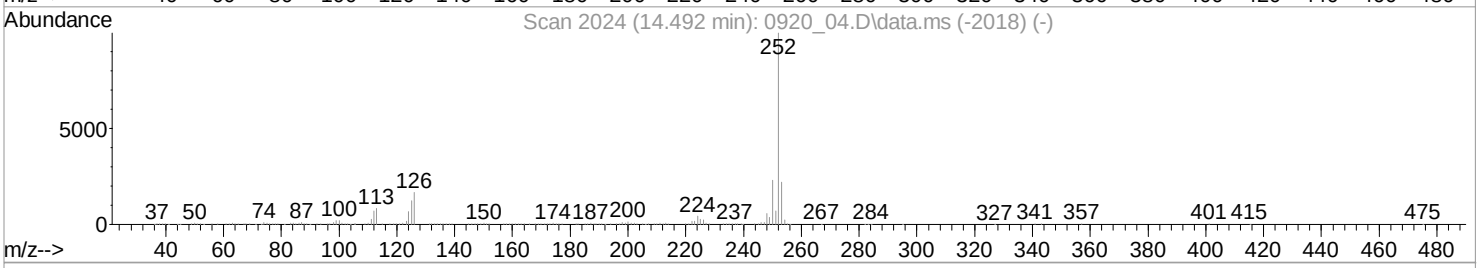
Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\data\112014A\
Data File : 1120a 08.D
Acq On    : 20 Nov 2014   9:15 pm
Operator  : 377
Sample    : STD SVMS 20K PPB 14K07412
Misc      : 8270 PRIMARY CALIBRATION
ALS Vial  : 8   Sample Multiplier: 1

Quant Time: Nov 21 14:21:31 2014
Quant Method : C:\msdchem\1\methods\S819K21N.M
Quant Title  : 8270 BNA
QLast Update : Fri Nov 21 14:21:01 2014
Response via : Initial Calibration
```







TIC: 1120a_08.D\data.ms

(89) Benzo(b)fluoranthene (MT)

14.336min (+0.006) 22270.5643271 ppb m

response 1881725

Ion	Exp%	Act%
252.00	100	100
253.00	22.10	21.76
126.00	20.10	18.05
113.00	9.60	8.69

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\112014A\
Data File : 1120a 09.D
Acq On : 20 Nov 2014 9:39 pm
Operator : 377
Sample : STD SVMS 30K PPB 14K07412
Misc : 8270 PRIMARY CALIBRATION
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Nov 21 14:42:07 2014
Quant Method : C:\msdchem\1\methods\S819K21N.M
Quant Title : 8270 BNA
QLast Update : Fri Nov 21 14:21:01 2014
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 1,4-Dichlorobenzene-d4	5.384	152	131607	8000.0000000 ppb	0.00
22) Naphthalene-d8	6.660	136	575948	8000.0000000 ppb	0.00
40) Acenaphthene-d10	8.542	164	368544	8000.0000000 ppb	0.00
64) Phenanthrene-d10	10.160	188	624914	8000.0000000 ppb	0.00
78) Chrysene-d12	13.048	240	638498	8000.0000000 ppb	0.00
88) Perylene-d12	14.889	264	657772	8000.0000000 ppb	0.00
System Monitoring Compounds					
4) 2-Fluorophenol	4.260	112	590689	30887.4228509 ppb	0.00
Spiked Amount 20.000	Range 10 - 78		Recovery	= 154437.11%#	
7) Phenol-d5	4.996	99	777472	31071.6139112 ppb	0.00
Spiked Amount 20.000	Range 5 - 70		Recovery	= 155358.07%#	
23) Nitrobenzene-d5	5.913	82	715275	31050.9654803 ppb	0.00
Spiked Amount 10.000	Range 22 - 123		Recovery	= 310509.65%#	
44) 2-Fluorobiphenyl	7.795	172	1569083	30139.4634628 ppb	0.00
Spiked Amount 10.000	Range 30 - 131		Recovery	= 301394.63%#	
67) 2,4,6-Tribromophenol	9.395	330	229061	33426.1149542 ppb	0.00
Spiked Amount 20.000	Range 11 - 130		Recovery	= 167130.57%#	
81) p-Terphenyl-d14	11.877	244	1964672	30808.8303315 ppb	0.00
Spiked Amount 10.000	Range 29 - 137		Recovery	= 308088.30%#	
Target Compounds					Qvalue
2) Pyridine	3.313	79	798973	30868.9070579 ppb	97
3) N-Nitrosodimethylamine	3.284	74	410087	31743.4352254 ppb	98
5) Aniline	5.078	66	373520	30717.2178664 ppb	98
6) bis(2-Chloroethyl)ether	5.119	63	528934	30046.6548585 ppb	99
8) Phenol	5.013	94	791544	30630.3115149 ppb	97
9) Benzaldehyde	0.000		0	N.D. d	
10) 2-Chlorophenol	5.184	128	704056	30553.1976309 ppb	97
11) n-Decane	5.207	55	145235	29365.5225148 ppb	96
12) 1,3-Dichlorobenzene	5.337	146	761298	30295.6916401 ppb	98
13) 1,4-Dichlorobenzene	5.401	146	777489	30654.7945257 ppb	99
14) Benzyl Alcohol	5.490	79	559501	31261.9697298 ppb	99
15) 1,2-Dichlorobenzene	5.548	146	750603	30660.6268676 ppb	98
16) bis(2-Chloroisopropyl)...	5.625	121	225381	30402.6768760 ppb	96
17) 2-Methylphenol	5.578	108	622949	30476.6275026 ppb	99
18) Hexachloroethane	5.884	117	336499	30682.9906828 ppb	99
19) N-Nitrosodi-n-propylamine	5.754	70	434853	31226.0219460 ppb	98
20) 3&4-Methyl phenol	5.731	107	702458	31263.3924037 ppb	99
21) Acetophenone	0.000		0	N.D.	
24) Nitrobenzene	5.937	77	721512	31162.7320648 ppb	96
25) Isophorone	6.166	82	1275162	31096.4462973 ppb	98
26) 2-Nitrophenol	6.254	139	388737	33574.0688190 ppb	98
27) 2,4-Dimethylphenol	6.266	107	669421	30121.9110249 ppb	98
28) bis(2-Chlorethoxy)methane	6.372	93	853803	30669.9848216 ppb	100
29) 2,4-Dichlorophenol	6.495	162	585475	31659.6678445 ppb	94
30) Benzoic Acid	0.000		0	N.D. d	
31) 1,2,4-Trichlorobenzene	6.595	180	641707	30924.2529723 ppb	97
32) Naphthalene	6.684	128	2138945	30016.0547644 ppb	100
33) 4-Chloroaniline	6.719	65	266601	31029.1015570 ppb #	84
34) Hexachloro-1,3-butadiene	6.801	225	349104	30395.9465477 ppb	99
35) Caprolactam	0.000		0	N.D. d	
36) 4-Chloro-3-methylphenol	7.207	107	625770	32302.7543627 ppb	96
37) 2-Methylnaphthalene	7.413	142	1505773	30722.5014349 ppb	99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\112014A\
Data File : 1120a 09.D
Acq On : 20 Nov 2014 9:39 pm
Operator : 377
Sample : STD SVMS 30K PPB 14K07412
Misc : 8270 PRIMARY CALIBRATION
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Nov 21 14:42:07 2014
Quant Method : C:\msdchem\1\methods\S819K21N.M
Quant Title : 8270 BNA
QLast Update : Fri Nov 21 14:21:01 2014
Response via : Initial Calibration

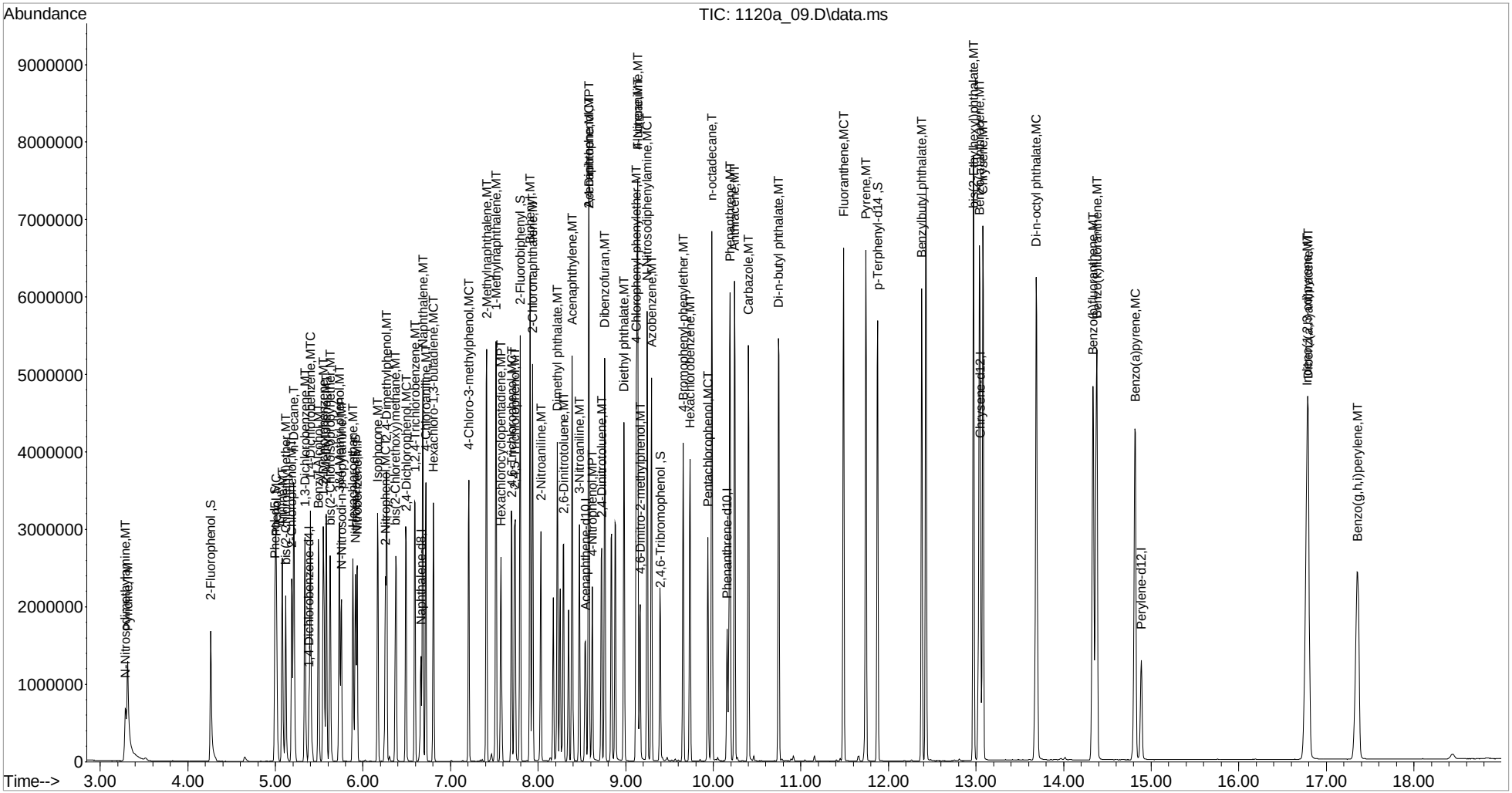
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
38) 1-Methylnaphthalene	7.519	142	1411596	30589.7373101 ppb	99
39) 1,2,4,5-Tetrachloroben...	0.000		0	N.D. d	
41) Hexachlorocyclopentadiene	7.578	237	392312	31960.5105949 ppb	99
42) 2,4,6-Trichlorophenol	7.701	196	422606	32395.3591296 ppb	93
43) 2,4,5-Trichlorophenol	7.737	196	454519	31528.0915083 ppb	95
45) Biphenyl	7.907	154	1773709	29815.7418176 ppb	99
46) 2-Chloronaphthalene	7.937	162	1391648	30351.8180144 ppb	98
47) 2-Nitroaniline	8.031	138	511112	33054.9352897 ppb	94
48) Acenaphthylene	8.389	152	2239511	30527.2741160 ppb	99
49) Dimethyl phthalate	8.219	163	1573339	29824.7021330 ppb	98
50) 2,6-Dinitrotoluene	8.289	165	388378	31780.4321985 ppb	95
51) 3-Nitroaniline	8.472	138	446229	31124.2290003 ppb	98
52) Acenaphthene	8.578	153	1504869	30156.4931105 ppb	97
53) 2,4-Dinitrophenol	8.578	184	200053	38452.6074667 ppb	97
54) Dibenzofuran	8.760	168	1969299	29628.2114406 ppb	98
55) 2,4-Dinitrotoluene	8.725	165	517063	32520.1950751 ppb	97
56) 2,3,4,6-Tetrachlorophenol	0.000		0	N.D. d	
57) 4-Nitrophenol	8.619	139	346598	31097.5335674 ppb	99
58) Fluorene	9.136	166	1670670	29751.4446996 ppb	99
59) 4-Chlorophenyl-phenyle...	9.119	204	761991	30051.2028820 ppb	97
60) Diethyl phthalate	8.978	149	1650240	29313.8400984 ppb	99
61) 4-Nitroaniline	9.136	138	346950	24618.3625214 ppb	95
62) Azobenzene	9.295	77	1772432	30299.3409647 ppb	96
63) Atrazine	0.000		0	N.D.	
65) 4,6-Dinitro-2-methylph...	9.166	198	269443	36001.6134958 ppb	94
66) N-Nitrosodiphenylamine	9.242	169	1385176	30383.2229021 ppb	100
68) 4-Bromophenyl-phenylether	9.654	248	442862	31672.8768635 ppb	98
69) Hexachlorobenzene	9.736	284	486553	31130.3086366 ppb	99
70) n-octadecane	9.983	55	309752	30025.7028125 ppb	99
71) Pentachlorophenol	9.936	266	281718	34880.4673082 ppb	97
72) Phenanthrene	10.189	178	2426474	29992.0593825 ppb	100
73) Anthracene	10.242	178	2492221	30421.2949626 ppb	99
74) Carbazole	10.401	167	2168877	28160.0571920 ppb	99
75) Di-n-butyl phthalate	10.742	149	3052172	30404.9268011 ppb	100
76) 2-nitrodiphenylamine	0.000		0	N.D. d	
77) Fluoranthene	11.489	202	2655393	29739.7852301 ppb	98
79) Benzidine	0.000		0	N.D.	
80) Pyrene	11.742	202	2810003	30379.7351069 ppb	98
82) Benzylbutyl phthalate	12.377	149	1467369	32159.0495747 ppb	99
83) 3,3-Dichlorobenzidine	0.000		0	N.D.	
84) Benzo(a)anthracene	13.036	228	2707913	30923.0227935 ppb	97
85) Chrysene	13.077	228	2493788	30914.3207368 ppb	97
86) bis(2-Ethylhexyl)phtha...	12.971	149	2179521	31846.9421438 ppb	99
87) Di-n-octyl phthalate	13.689	149	3669393	31533.9327323 ppb	99
89) Benzo(b)fluoranthene	14.336	252	2681487m	32081.6379424 ppb	
90) Benzo(k)fluoranthene	14.377	252	2654475	31010.0522376 ppb	98
91) Benzo(a)pyrene	14.818	252	2534019	31137.0711343 ppb	99
92) Indeno(1,2,3-cd)pyrene	16.783	276	2701237	30495.3977435 ppb	97
93) Dibenz(a,h)anthracene	16.795	278	2307592	30705.0371728 ppb	94
94) Benzo(g,h,i)perylene	17.359	276	2223916	30019.4815250 ppb	99

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\112014A\
Data File : 1120a 09.D
Acq On : 20 Nov 2014 9:39 pm
Operator : 377
Sample : STD SVMS 30K PPB 14K07412
Misc : 8270 PRIMARY CALIBRATION
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Nov 21 14:42:07 2014
Quant Method : C:\msdchem\1\methods\S819K21N.M
Quant Title : 8270 BNA
QLast Update : Fri Nov 21 14:21:01 2014
Response via : Initial Calibration

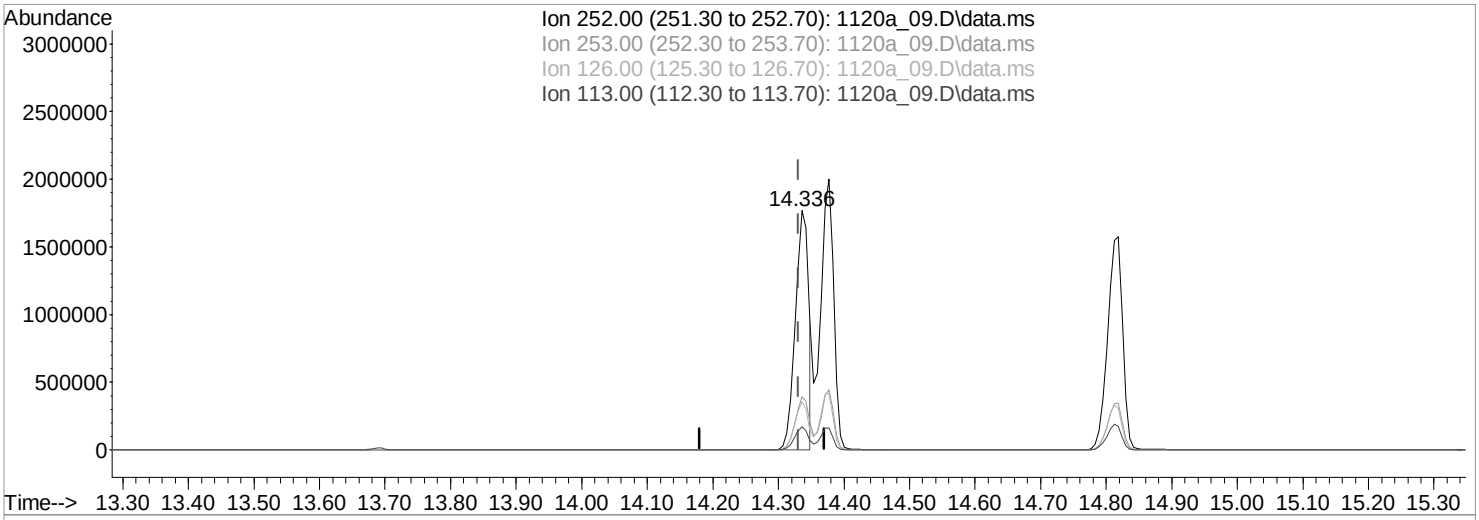


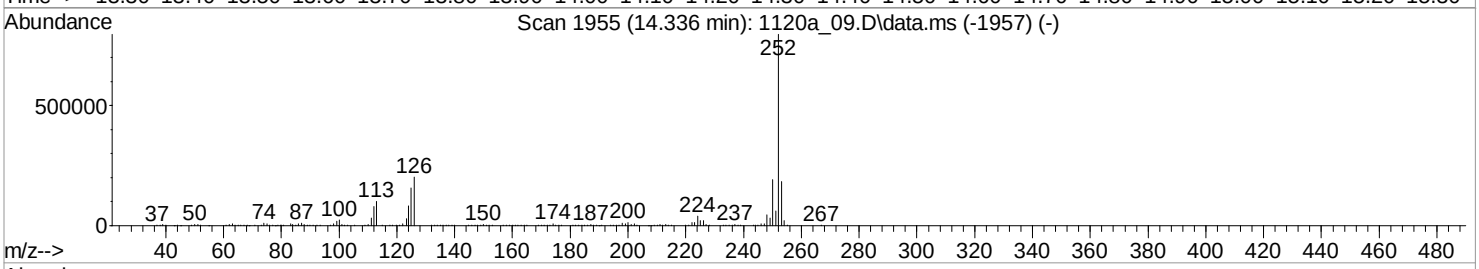
PDF Generated On: 11/21/2014 -- By: Chris McCord

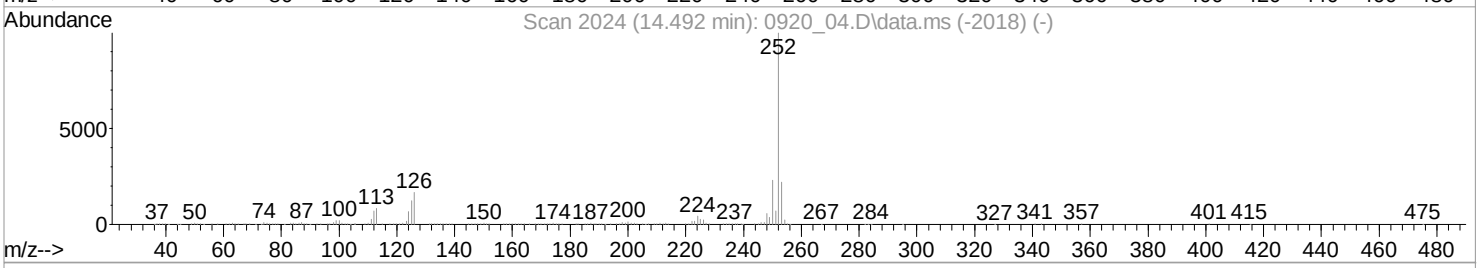
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\112014A\
Data File : 1120a 09.D
Acq On : 20 Nov 2014 9:39 pm
Operator : 377
Sample : STD SVMS 30K PPB 14K07412
Misc : 8270 PRIMARY CALIBRATION
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Nov 21 14:21:34 2014
Quant Method : C:\msdchem\1\methods\S819K21N.M
Quant Title : 8270 BNA
QLast Update : Fri Nov 21 14:21:01 2014
Response via : Initial Calibration







TIC: 1120a_09.D\data.ms

(89) Benzo(b)fluoranthene (MT)

14.336min (+0.006) 30006.4609600 ppb

Qvalue = 100

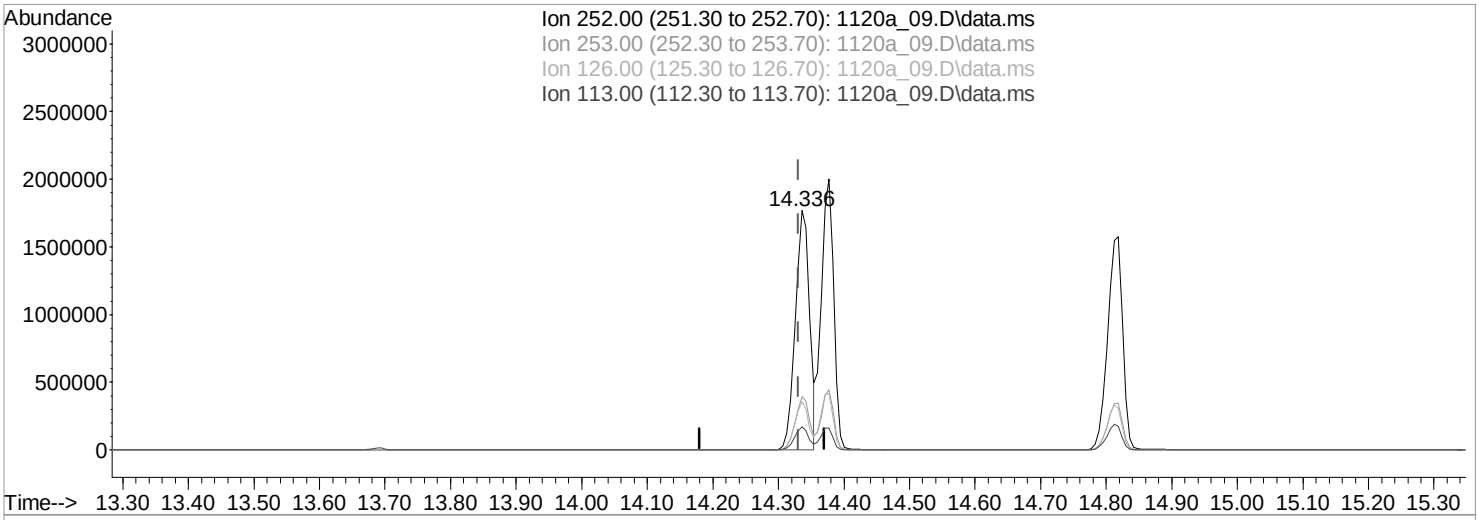
response 2508037

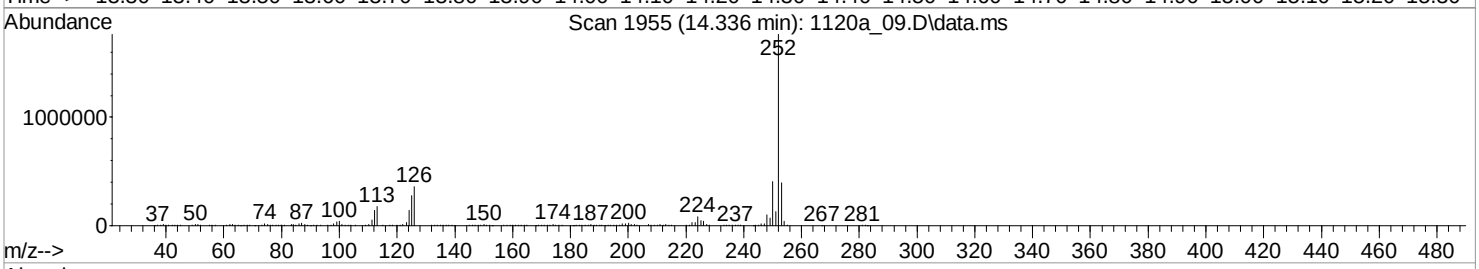
Ion	Exp%	Act%
252.00	100	100
253.00	22.10	22.20
126.00	20.10	20.15
113.00	9.60	9.80

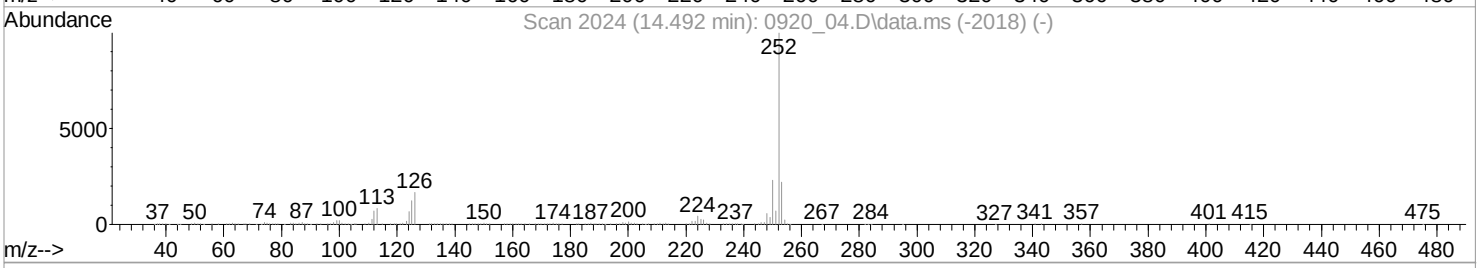
Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\data\112014A\
Data File : 1120a 09.D
Acq On    : 20 Nov 2014   9:39 pm
Operator  : 377
Sample    : STD SVMS 30K PPB 14K07412
Misc      : 8270 PRIMARY CALIBRATION
ALS Vial  : 9   Sample Multiplier: 1

Quant Time: Nov 21 14:21:34 2014
Quant Method : C:\msdchem\1\methods\S819K21N.M
Quant Title  : 8270 BNA
QLast Update : Fri Nov 21 14:21:01 2014
Response via : Initial Calibration
```







TIC: 1120a_09.D\data.ms

(89) Benzo(b)fluoranthene (MT)

14.336min (+0.006) 32081.6379424 ppb m

response 2681487

Ion	Exp%	Act%
252.00	100	100
253.00	22.10	22.20
126.00	20.10	20.15
113.00	9.60	9.80

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\112014A\
Data File : 1120a 10.D
Acq On : 20 Nov 2014 10:03 pm
Operator : 377
Sample : STD SVMS 40K PPB 14K07412
Misc : 8270 PRIMARY CALIBRATION
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Nov 21 14:43:56 2014
Quant Method : C:\msdchem\1\methods\S819K21N.M
Quant Title : 8270 BNA
QLast Update : Fri Nov 21 14:21:01 2014
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 1,4-Dichlorobenzene-d4	5.384	152	129480	8000.0000000 ppb	0.00
22) Naphthalene-d8	6.660	136	557055	8000.0000000 ppb	0.00
40) Acenaphthene-d10	8.542	164	361215	8000.0000000 ppb	0.00
64) Phenanthrene-d10	10.160	188	613068	8000.0000000 ppb	0.00
78) Chrysene-d12	13.054	240	634534	8000.0000000 ppb	0.00
88) Perylene-d12	14.889	264	631104	8000.0000000 ppb	0.00
System Monitoring Compounds					
4) 2-Fluorophenol	4.260	112	772226	41043.4168758 ppb	0.00
Spiked Amount 20.000	Range 10 - 78		Recovery	= 205217.08%#	
7) Phenol-d5	5.001	99	1010018	41028.3892260 ppb	0.00
Spiked Amount 20.000	Range 5 - 70		Recovery	= 205141.95%#	
23) Nitrobenzene-d5	5.919	82	945818	42451.6754259 ppb	0.00
Spiked Amount 10.000	Range 22 - 123		Recovery	= 424516.75%#	
44) 2-Fluorobiphenyl	7.795	172	2009634	39384.9354324 ppb	0.00
Spiked Amount 10.000	Range 30 - 131		Recovery	= 393849.35%#	
67) 2,4,6-Tribromophenol	9.395	330	299184	44502.5319392 ppb	0.00
Spiked Amount 20.000	Range 11 - 130		Recovery	= 222512.66%#	
81) p-Terphenyl-d14	11.877	244	2554416	40307.0880532 ppb	0.00
Spiked Amount 10.000	Range 29 - 137		Recovery	= 403070.88%#	
Target Compounds					Qvalue
2) Pyridine	3.313	79	1044708	41026.1127243 ppb	97
3) N-Nitrosodimethylamine	3.284	74	538611	42376.9249192 ppb	98
5) Aniline	5.078	66	485444	40577.3287412 ppb	99
6) bis(2-Chloroethyl)ether	5.119	63	684387	39515.9742773 ppb	97
8) Phenol	5.013	94	1023749	40266.7095129 ppb	98
9) Benzaldehyde	0.000		0	N.D. d	
10) 2-Chlorophenol	5.189	128	917811	40483.5904300 ppb	98
11) n-Decane	5.213	55	188204	38678.6753360 ppb	92
12) 1,3-Dichlorobenzene	5.337	146	997996	40367.4468565 ppb	99
13) 1,4-Dichlorobenzene	5.401	146	1010533	40497.7556153 ppb	99
14) Benzyl Alcohol	5.495	79	729547	41432.8727122 ppb	100
15) 1,2-Dichlorobenzene	5.548	146	972231	40366.0726385 ppb	98
16) bis(2-Chloroisopropyl)...	5.625	121	290400	39816.8989561 ppb	94
17) 2-Methylphenol	5.584	108	808374	40197.8707419 ppb	99
18) Hexachloroethane	5.884	117	439484	40731.7695135 ppb	98
19) N-Nitrosodi-n-propylamine	5.754	70	568623	41502.5623840 ppb	99
20) 3&4-Methyl phenol	5.731	107	907458	41050.5113399 ppb	99
21) Acetophenone	0.000		0	N.D.	
24) Nitrobenzene	5.936	77	938983	41930.9685805 ppb	98
25) Isophorone	6.172	82	1647322	41534.5103313 ppb	98
26) 2-Nitrophenol	6.254	139	508858	45439.1189541 ppb	99
27) 2,4-Dimethylphenol	6.272	107	870608	40503.3589197 ppb	98
28) bis(2-Chlorethoxy)methane	6.378	93	1108353	41164.1529815 ppb	98
29) 2,4-Dichlorophenol	6.495	162	760219	42503.2281568 ppb	96
30) Benzoic Acid	0.000		0	N.D. d	
31) 1,2,4-Trichlorobenzene	6.595	180	832135	41461.1579709 ppb	98
32) Naphthalene	6.684	128	2765773	40128.7583432 ppb	100
33) 4-Chloroaniline	6.719	65	348106	41889.3993859 ppb	91
34) Hexachloro-1,3-butadiene	6.801	225	457006	41140.3466637 ppb	99
35) Caprolactam	0.000		0	N.D. d	
36) 4-Chloro-3-methylphenol	7.207	107	819680	43747.6120783 ppb	97
37) 2-Methylnaphthalene	7.413	142	1945011	41030.2655029 ppb	99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\112014A\
Data File : 1120a 10.D
Acq On : 20 Nov 2014 10:03 pm
Operator : 377
Sample : STD SVMS 40K PPB 14K07412
Misc : 8270 PRIMARY CALIBRATION
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Nov 21 14:43:56 2014
Quant Method : C:\msdchem\1\methods\S819K21N.M
Quant Title : 8270 BNA
QLast Update : Fri Nov 21 14:21:01 2014
Response via : Initial Calibration

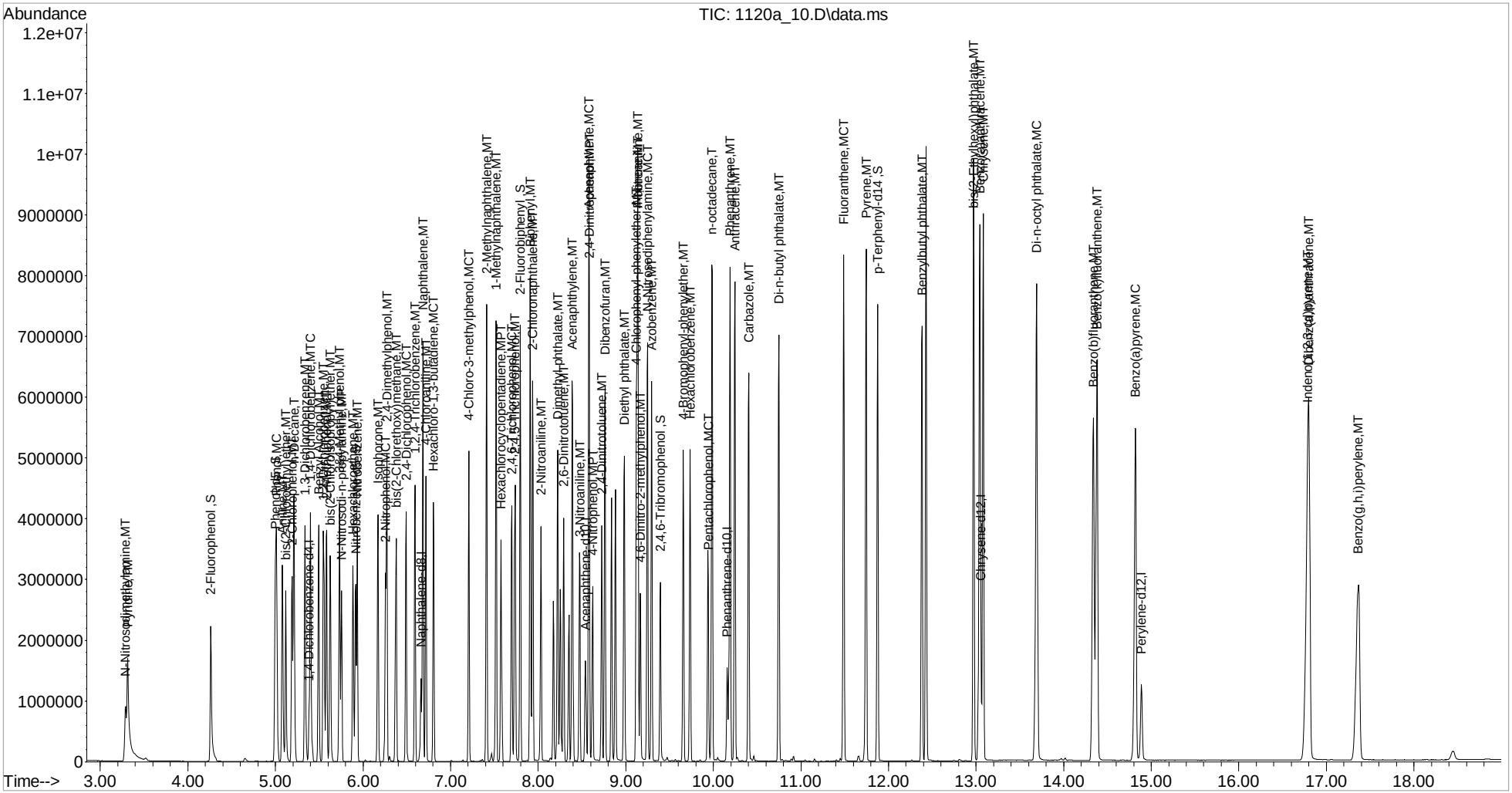
Compound	R.T.	QIon	Response	Conc Units		Dev(Min)
38) 1-Methylnaphthalene	7.519	142	1825054	40890.8600613 ppb		99
39) 1,2,4,5-Tetrachloroben...	0.000		0	N.D. d		
41) Hexachlorocyclopentadiene	7.578	237	517396	43005.9704003 ppb		99
42) 2,4,6-Trichlorophenol	7.701	196	558333	43668.0708129 ppb		95
43) 2,4,5-Trichlorophenol	7.736	196	598927	42388.0170218 ppb		96
45) Biphenyl	7.907	154	2305362	39539.0243004 ppb		99
46) 2-Chloronaphthalene	7.936	162	1781077	39633.4221921 ppb		97
47) 2-Nitroaniline	8.030	138	673855	44464.1769076 ppb		98
48) Acenaphthylene	8.389	152	2869905	39914.0609116 ppb		99
49) Dimethyl phthalate	8.225	163	2049056	39630.6506829 ppb		98
50) 2,6-Dinitrotoluene	8.289	165	506442	42282.2862211 ppb		98
51) 3-Nitroaniline	8.478	138	576043	40993.9042776 ppb		91
52) Acenaphthene	8.578	153	1933782	39537.8657173 ppb		98
53) 2,4-Dinitrophenol	8.583	184	274499	53832.5634800 ppb	#	39
54) Dibenzofuran	8.766	168	2584779	39677.1765512 ppb		99
55) 2,4-Dinitrotoluene	8.725	165	674560	43286.6357582 ppb		94
56) 2,3,4,6-Tetrachlorophenol	0.000		0	N.D. d		
57) 4-Nitrophenol	8.625	139	464829	42551.6765952 ppb		97
58) Fluorene	9.136	166	2175289	39523.7294228 ppb		99
59) 4-Chlorophenyl-phenyle...	9.119	204	982857	39548.1271863 ppb		94
60) Diethyl phthalate	8.983	149	2141275	38808.0319995 ppb		98
61) 4-Nitroaniline	9.136	138	455435	32971.7685178 ppb		97
62) Azobenzene	9.295	77	2275600	39690.1822890 ppb		97
63) Atrazine	0.000		0	N.D.		
65) 4,6-Dinitro-2-methylph...	9.166	198	362198	49330.1815640 ppb		86
66) N-Nitrosodiphenylamine	9.248	169	1795785	40150.8577319 ppb		100
68) 4-Bromophenyl-phenylether	9.654	248	573792	41829.7424355 ppb		94
69) Hexachlorobenzene	9.736	284	628033	40958.8111326 ppb		99
70) n-octadecane	9.983	55	399739	39497.2801561 ppb		99
71) Pentachlorophenol	9.942	266	378265	47739.2358730 ppb		98
72) Phenanthrene	10.189	178	3104663	39116.2053458 ppb		99
73) Anthracene	10.248	178	3203141	39854.6324681 ppb		98
74) Carbazole	10.407	167	2699497	35726.7132818 ppb		99
75) Di-n-butyl phthalate	10.748	149	3865662	39252.7820321 ppb		100
76) 2-nitrodiphenylamine	0.000		0	N.D. d		
77) Fluoranthene	11.489	202	3376610	38547.9716033 ppb		98
79) Benzidine	0.000		0	N.D.		
80) Pyrene	11.748	202	3587759	39030.5890124 ppb		99
82) Benzylbutyl phthalate	12.383	149	1928920	42538.5541966 ppb		95
83) 3,3-Dichlorobenzidine	0.000		0	N.D.		
84) Benzo(a)anthracene	13.042	228	3491132	40116.0484120 ppb		98
85) Chrysene	13.083	228	3201050	39929.8132474 ppb		97
86) bis(2-Ethylhexyl)phtha...	12.971	149	2832074	41640.4986450 ppb		99
87) Di-n-octyl phthalate	13.695	149	4677111	40445.1294001 ppb		99
89) Benzo(b)fluoranthene	14.342	252	3515608m	43838.5045994 ppb		
90) Benzo(k)fluoranthene	14.377	252	3234616	39384.1102511 ppb		98
91) Benzo(a)pyrene	14.818	252	3191863	40877.7124311 ppb		98
92) Indeno(1,2,3-cd)pyrene	16.789	276	3436240	40432.4027871 ppb		95
93) Dibenz(a,h)anthracene	16.801	278	2935547	40711.2175169 ppb		95
94) Benzo(g,h,i)perylene	17.365	276	2802203	39423.8334269 ppb		98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\112014A\
Data File : 1120a 10.D
Acq On : 20 Nov 2014 10:03 pm
Operator : 377
Sample : STD SVMS 40K PPB 14K07412
Misc : 8270 PRIMARY CALIBRATION
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Nov 21 14:43:56 2014
Quant Method : C:\msdchem\1\methods\S819K21N.M
Quant Title : 8270 BNA
QLast Update : Fri Nov 21 14:21:01 2014
Response via : Initial Calibration

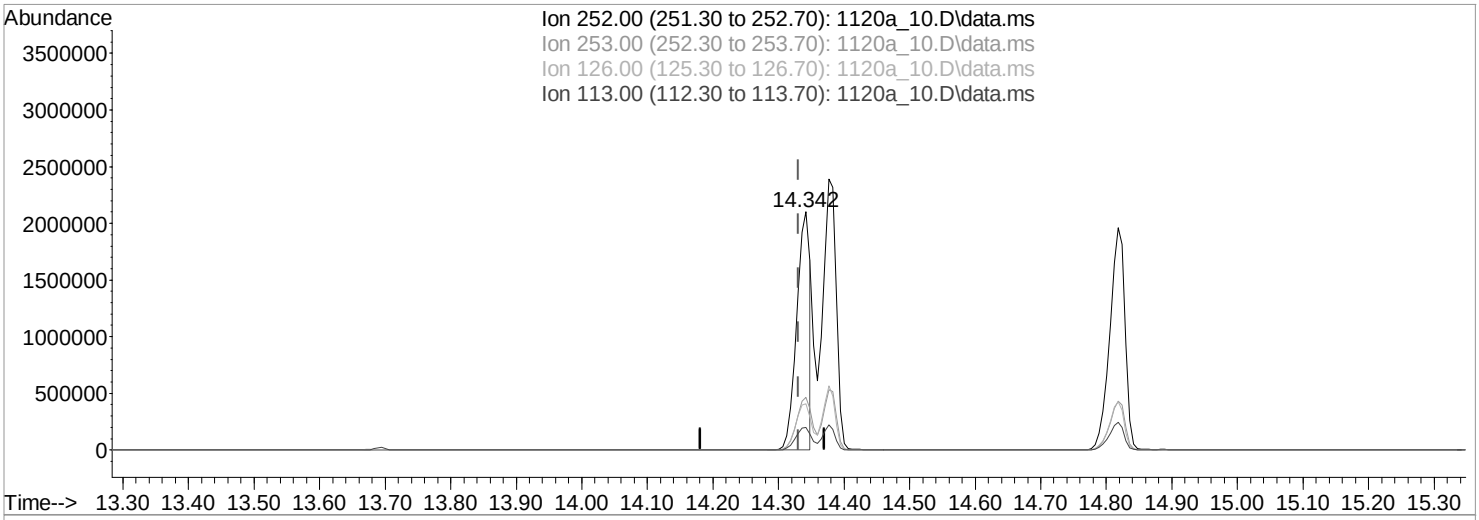


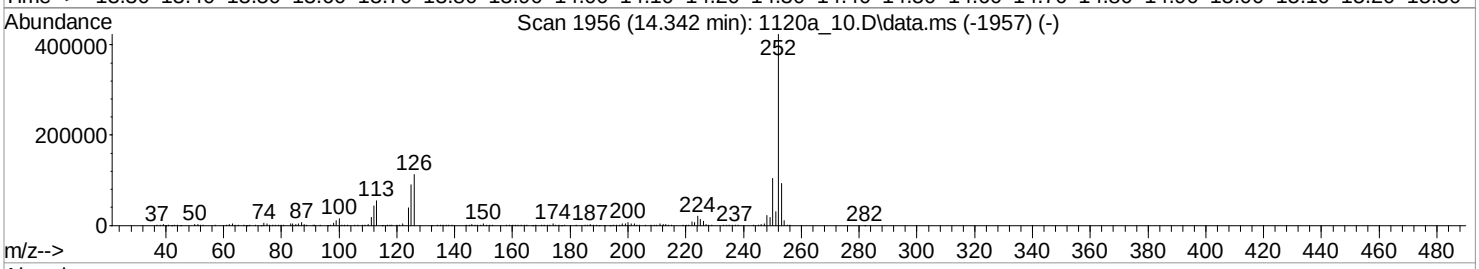
PDF Generated On: 11/21/2014 -- By: Chris McCord

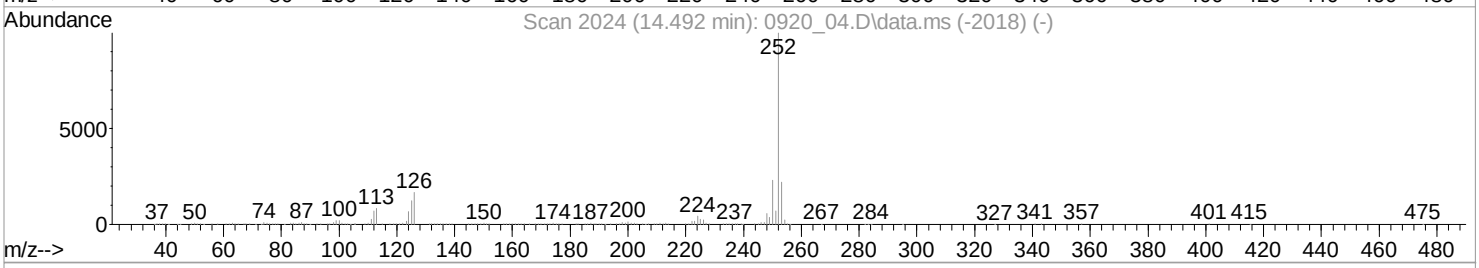
Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\data\112014A\
Data File : 1120a 10.D
Acq On    : 20 Nov 2014  10:03 pm
Operator  : 377
Sample    : STD SVMS 40K PPB 14K07412
Misc      : 8270 PRIMARY CALIBRATION
ALS Vial  : 10   Sample Multiplier: 1

Quant Time: Nov 21 14:21:37 2014
Quant Method : C:\msdchem\1\methods\S819K21N.M
Quant Title  : 8270 BNA
QLast Update : Fri Nov 21 14:21:01 2014
Response via : Initial Calibration
```







TIC: 1120a_10.D\data.ms

(89) Benzo(b)fluoranthene (MT)

14.342min (+0.012) 37096.9968947 ppb

Qvalue = 99

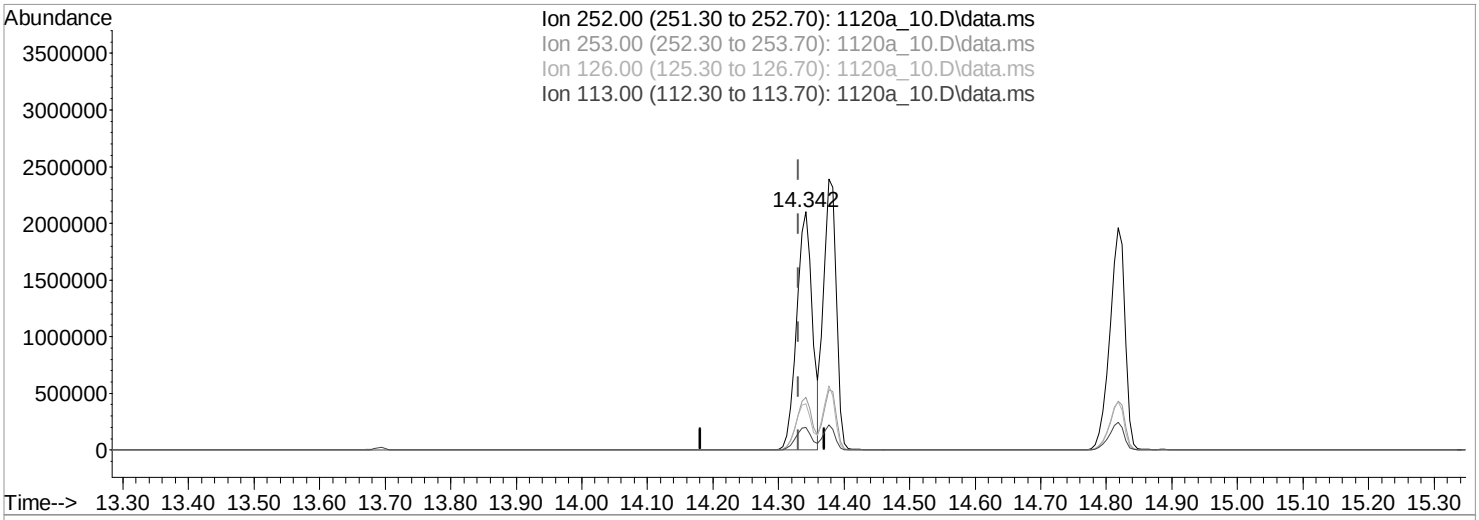
response 2974976

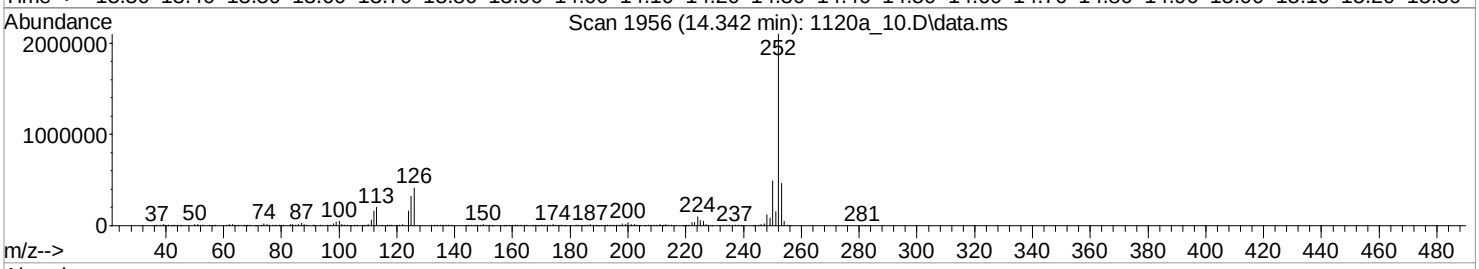
Ion	Exp%	Act%
252.00	100	100
253.00	22.10	21.98
126.00	20.10	19.52
113.00	9.60	9.44

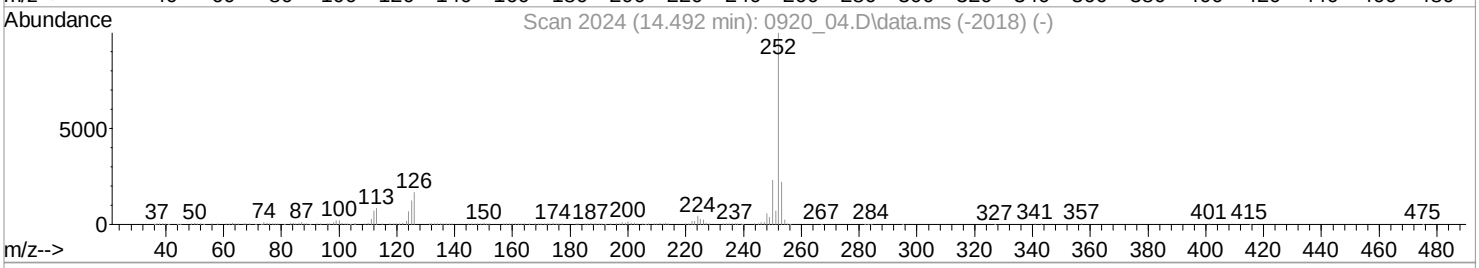
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\112014A\
Data File : 1120a 10.D
Acq On : 20 Nov 2014 10:03 pm
Operator : 377
Sample : STD SVMS 40K PPB 14K07412
Misc : 8270 PRIMARY CALIBRATION
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Nov 21 14:21:37 2014
Quant Method : C:\msdchem\1\methods\S819K21N.M
Quant Title : 8270 BNA
QLast Update : Fri Nov 21 14:21:01 2014
Response via : Initial Calibration







TIC: 1120a_10.D\data.ms

(89) Benzo(b)fluoranthene (MT)

14.342min (+0.012) 43838.5045994 ppb m

response 3515608

Ion	Exp%	Act%
252.00	100	100
253.00	22.10	21.98
126.00	20.10	19.52
113.00	9.60	9.44

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\112014A\
Data File : 1120a 11.D
Acq On : 20 Nov 2014 10:27 pm
Operator : 377
Sample : STD SVMS 50K PPB 14K07412
Misc : 8270 PRIMARY CALIBRATION
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Nov 21 14:45:28 2014
Quant Method : C:\msdchem\1\methods\S819K21N.M
Quant Title : 8270 BNA
QLast Update : Fri Nov 21 14:21:01 2014
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 1,4-Dichlorobenzene-d4	5.383	152	125687	8000.0000000 ppb	0.00
22) Naphthalene-d8	6.660	136	548404	8000.0000000 ppb	0.00
40) Acenaphthene-d10	8.542	164	349278	8000.0000000 ppb	0.00
64) Phenanthrene-d10	10.160	188	598883	8000.0000000 ppb	0.00
78) Chrysene-d12	13.054	240	609226	8000.0000000 ppb	0.00
88) Perylene-d12	14.889	264	608860	8000.0000000 ppb	0.00
System Monitoring Compounds					
4) 2-Fluorophenol	4.260	112	947769	51893.6142259 ppb	0.00
Spiked Amount 20.000	Range 10 - 78		Recovery = 259468.07%#		
7) Phenol-d5	5.001	99	1237188	51773.0061621 ppb	0.00
Spiked Amount 20.000	Range 5 - 70		Recovery = 258865.03%#		
23) Nitrobenzene-d5	5.919	82	1151848	52514.5799029 ppb	0.00
Spiked Amount 10.000	Range 22 - 123		Recovery = 525145.80%#		
44) 2-Fluorobiphenyl	7.795	172	2424399	49137.3588720 ppb	0.00
Spiked Amount 10.000	Range 30 - 131		Recovery = 491373.59%#		
67) 2,4,6-Tribromophenol	9.395	330	368975	56183.6513615 ppb	0.00
Spiked Amount 20.000	Range 11 - 130		Recovery = 280918.26%#		
81) p-Terphenyl-d14	11.877	244	3034619	49873.5679990 ppb	0.00
Spiked Amount 10.000	Range 29 - 137		Recovery = 498735.68%#		
Target Compounds					Qvalue
2) Pyridine	3.313	79	1283370	51919.3996558 ppb	97
3) N-Nitrosodimethylamine	3.290	74	662621	53707.1054008 ppb	94
5) Aniline	5.078	66	596322	51349.6488744 ppb	99
6) bis(2-Chloroethyl)ether	5.119	63	837024	49787.5990871 ppb	97
8) Phenol	5.013	94	1256332	50906.0504321 ppb	100
9) Benzaldehyde	0.000		0	N.D. d	
10) 2-Chlorophenol	5.189	128	1115795	50701.6981609 ppb	99
11) n-Decane	5.213	55	227729	48214.0275884 ppb	91
12) 1,3-Dichlorobenzene	5.336	146	1218918	50791.2969290 ppb	99
13) 1,4-Dichlorobenzene	5.401	146	1231376	50837.4162684 ppb	99
14) Benzyl Alcohol	5.495	79	894003	52304.9843492 ppb	100
15) 1,2-Dichlorobenzene	5.548	146	1181703	50543.7780303 ppb	98
16) bis(2-Chloroisopropyl)...	5.625	121	357273	50464.1948120 ppb #	91
17) 2-Methylphenol	5.583	108	990605	50746.2037480 ppb	99
18) Hexachloroethane	5.883	117	539108	51472.8619202 ppb	97
19) N-Nitrosodi-n-propylamine	5.754	70	692362	52059.0265500 ppb	99
20) 3&4-Methyl phenol	5.731	107	1101134	51315.0245117 ppb	98
21) Acetophenone	0.000		0	N.D.	
24) Nitrobenzene	5.936	77	1147355	52044.2123683 ppb	99
25) Isophorone	6.172	82	2017374	51667.1467034 ppb	100
26) 2-Nitrophenol	6.254	139	630417	57181.9121755 ppb	99
27) 2,4-Dimethylphenol	6.272	107	1065623	50358.1115352 ppb	99
28) bis(2-Chlorethoxy)methane	6.378	93	1346138	50784.1431630 ppb	99
29) 2,4-Dichlorophenol	6.495	162	932607	52963.8236032 ppb	96
30) Benzoic Acid	0.000		0	N.D. d	
31) 1,2,4-Trichlorobenzene	6.595	180	1001374	50680.5608455 ppb	98
32) Naphthalene	6.683	128	3331978	49106.4769423 ppb	99
33) 4-Chloroaniline	6.719	65	426036	52075.8522238 ppb	95
34) Hexachloro-1,3-butadiene	6.801	225	553329	50597.2531251 ppb	99
35) Caprolactam	0.000		0	N.D. d	
36) 4-Chloro-3-methylphenol	7.207	107	996716	54035.4666933 ppb	98
37) 2-Methylnaphthalene	7.413	142	2355320	50469.5750696 ppb	98

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\112014A\
Data File : 1120a 11.D
Acq On : 20 Nov 2014 10:27 pm
Operator : 377
Sample : STD SVMS 50K PPB 14K07412
Misc : 8270 PRIMARY CALIBRATION
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Nov 21 14:45:28 2014
Quant Method : C:\msdchem\1\methods\S819K21N.M
Quant Title : 8270 BNA
QLast Update : Fri Nov 21 14:21:01 2014
Response via : Initial Calibration

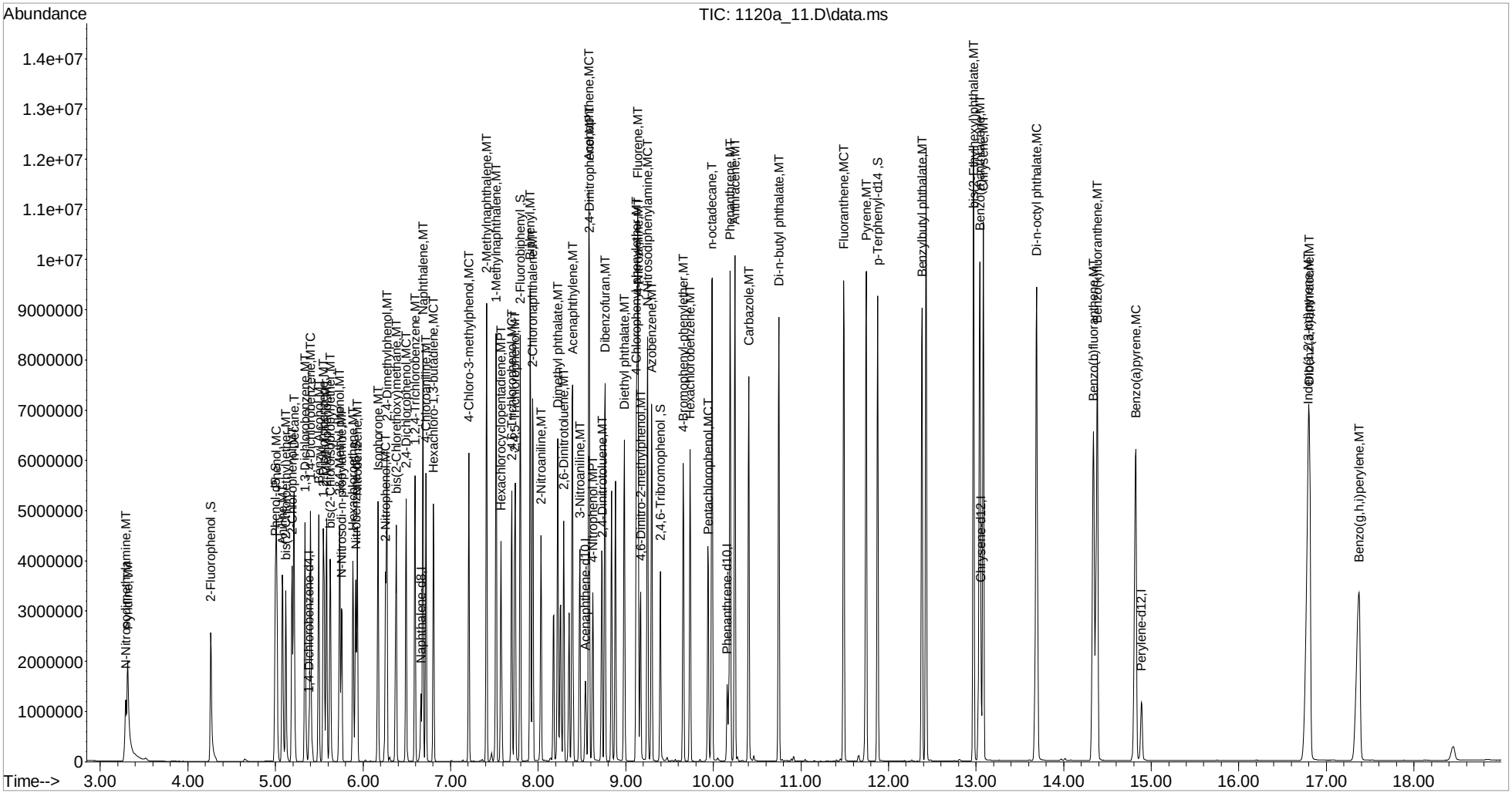
Compound	R.T.	QIon	Response	Conc Units		Dev(Min)
38) 1-Methylnaphthalene	7.519	142	2223397	50601.6879938 ppb		99
39) 1,2,4,5-Tetrachloroben...	0.000		0	N.D. d		
41) Hexachlorocyclopentadiene	7.577	237	635032	54587.8312667 ppb		99
42) 2,4,6-Trichlorophenol	7.701	196	684732	55384.1988907 ppb		96
43) 2,4,5-Trichlorophenol	7.736	196	730019	53431.5677345 ppb		97
45) Biphenyl	7.907	154	2768281	49101.1354264 ppb		99
46) 2-Chloronaphthalene	7.936	162	2178874	50142.4488274 ppb		97
47) 2-Nitroaniline	8.030	138	832270	56794.0170772 ppb		97
48) Acenaphthylene	8.395	152	3476632	50004.7963934 ppb		98
49) Dimethyl phthalate	8.225	163	2490968	49824.1695626 ppb		100
50) 2,6-Dinitrotoluene	8.289	165	621413	53654.1879469 ppb		96
51) 3-Nitroaniline	8.477	138	708064	52111.2437333 ppb		96
52) Acenaphthene	8.577	153	2329372	49253.7276510 ppb		98
53) 2,4-Dinitrophenol	8.583	184	344920	69954.7513351 ppb	#	37
54) Dibenzofuran	8.766	168	3126317	49630.0714848 ppb		100
55) 2,4-Dinitrotoluene	8.730	165	831442	55177.2120486 ppb		96
56) 2,3,4,6-Tetrachlorophenol	0.000		0	N.D. d		
57) 4-Nitrophenol	8.624	139	572183	54169.2667588 ppb		98
58) Fluorene	9.136	166	2612218	49084.5616274 ppb		98
59) 4-Chlorophenyl-phenyle...	9.119	204	1196650	49796.3232431 ppb		95
60) Diethyl phthalate	8.983	149	2589875	48542.5427563 ppb		98
61) 4-Nitroaniline	9.142	138	564215	42243.0252105 ppb		97
62) Azobenzene	9.295	77	2783503	50208.0561215 ppb		98
63) Atrazine	0.000		0	N.D.		
65) 4,6-Dinitro-2-methylph...	9.171	198	457719	63816.3953066 ppb		90
66) N-Nitrosodiphenylamine	9.248	169	2154110	49303.1908687 ppb		99
68) 4-Bromophenyl-phenylether	9.654	248	701990	52387.5743126 ppb		95
69) Hexachlorobenzene	9.736	284	767071	51211.4537993 ppb		99
70) n-octadecane	9.983	55	481450	48697.7081507 ppb		98
71) Pentachlorophenol	9.942	266	468622	60543.6556642 ppb		99
72) Phenanthrene	10.189	178	3776684	48710.1607187 ppb		98
73) Anthracene	10.248	178	3871025	49305.5026885 ppb		98
74) Carbazole	10.407	167	3089915	41862.3313478 ppb		99
75) Di-n-butyl phthalate	10.748	149	4653581	48372.7196057 ppb		99
76) 2-nitrodiphenylamine	0.000		0	N.D. d		
77) Fluoranthene	11.489	202	4128608	48249.2915133 ppb		97
79) Benzidine	0.000		0	N.D.		
80) Pyrene	11.748	202	4309257	48827.0747960 ppb		98
82) Benzylbutyl phthalate	12.383	149	2363584	54289.5220808 ppb		95
83) 3,3-Dichlorobenzidine	0.000		0	N.D.		
84) Benzo(a)anthracene	13.042	228	4150171	49670.0201849 ppb		97
85) Chrysene	13.083	228	3763095	48890.7243490 ppb		97
86) bis(2-Ethylhexyl)phtha...	12.971	149	3425633	52460.0410913 ppb		98
87) Di-n-octyl phthalate	13.695	149	5649622	50884.3711699 ppb		99
89) Benzo(b)fluoranthene	14.342	252	4138347m	53489.1479672 ppb		
90) Benzo(k)fluoranthene	14.383	252	3956193	49929.7357626 ppb		99
91) Benzo(a)pyrene	14.824	252	3849529	51101.4739368 ppb		99
92) Indeno(1,2,3-cd)pyrene	16.795	276	4152954	50650.8423361 ppb		94
93) Dibenz(a,h)anthracene	16.806	278	3522418	50634.8390389 ppb		95
94) Benzo(g,h,i)perylene	17.371	276	3324655	48482.9829324 ppb		97

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\112014A\
Data File : 1120a 11.D
Acq On : 20 Nov 2014 10:27 pm
Operator : 377
Sample : STD SVMS 50K PPB 14K07412
Misc : 8270 PRIMARY CALIBRATION
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Nov 21 14:45:28 2014
Quant Method : C:\msdchem\1\methods\S819K21N.M
Quant Title : 8270 BNA
QLast Update : Fri Nov 21 14:21:01 2014
Response via : Initial Calibration

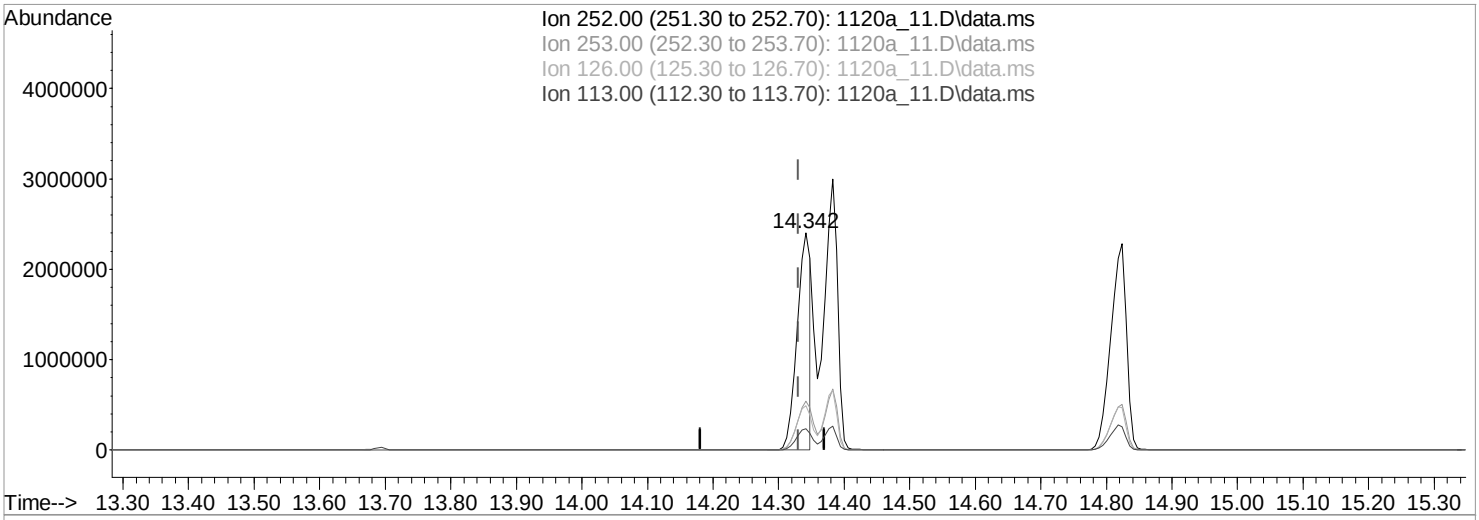


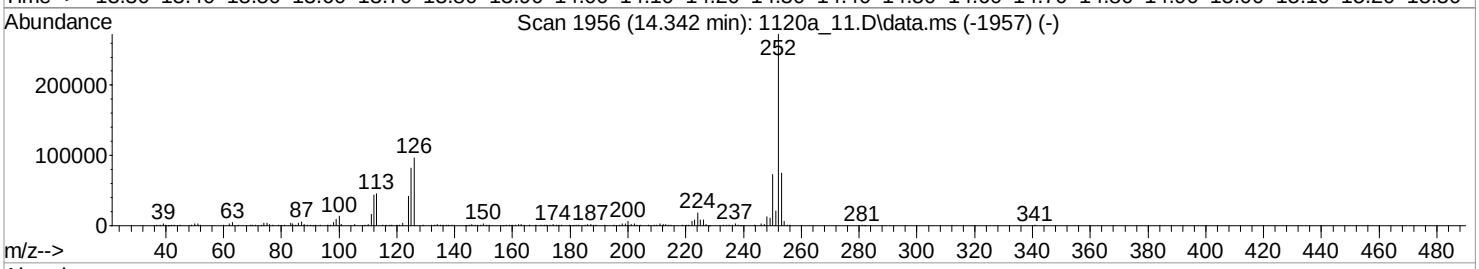
PDF Generated On: 11/21/2014 -- By: Chris McCord

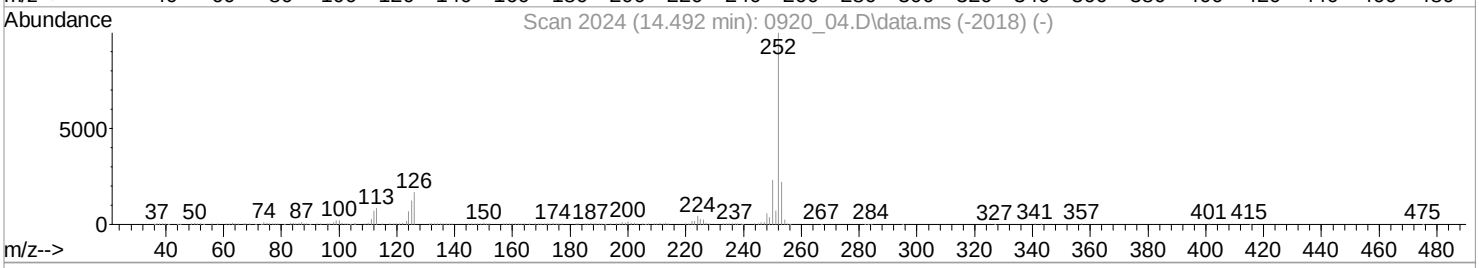
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\112014A\
Data File : 1120a 11.D
Acq On : 20 Nov 2014 10:27 pm
Operator : 377
Sample : STD SVMS 50K PPB 14K07412
Misc : 8270 PRIMARY CALIBRATION
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Nov 21 14:21:40 2014
Quant Method : C:\msdchem\1\methods\S819K21N.M
Quant Title : 8270 BNA
QLast Update : Fri Nov 21 14:21:01 2014
Response via : Initial Calibration







TIC: 1120a_11.D\data.ms

(89) Benzo(b)fluoranthene (MT)

14.342min (+0.012) 43789.5660489 ppb

Qvalue = 99

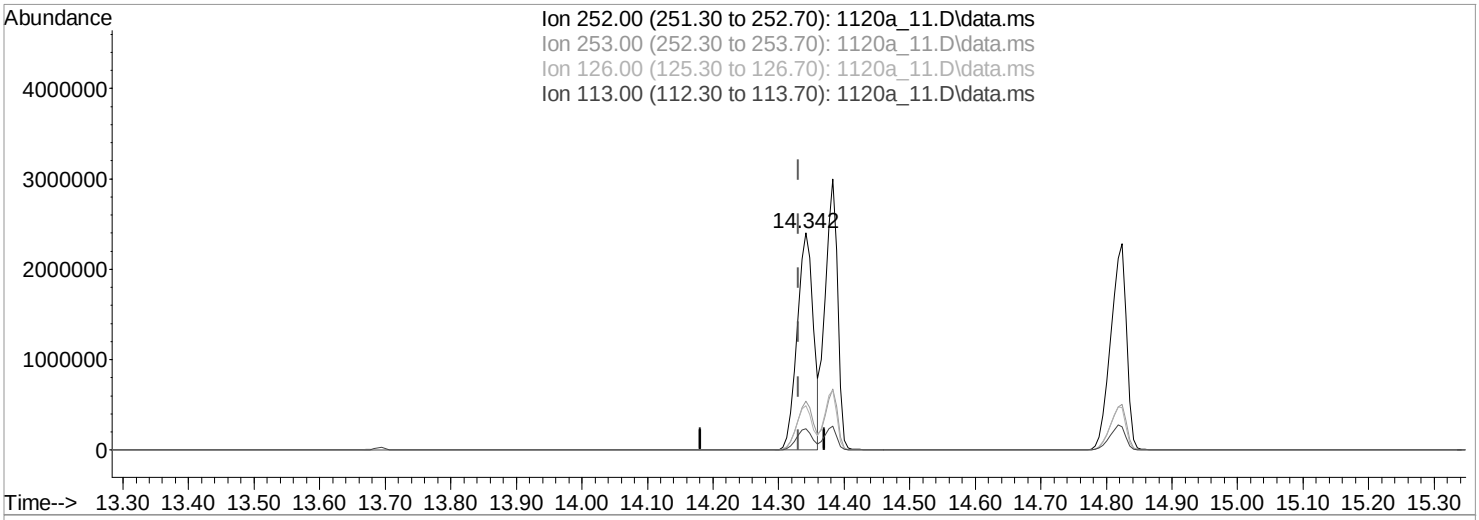
response 3387910

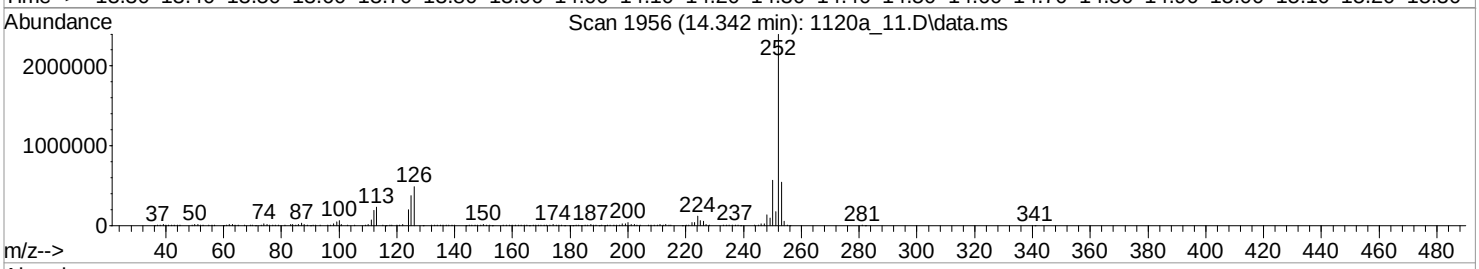
Ion	Exp%	Act%
252.00	100	100
253.00	22.10	22.50
126.00	20.10	20.30
113.00	9.60	9.67

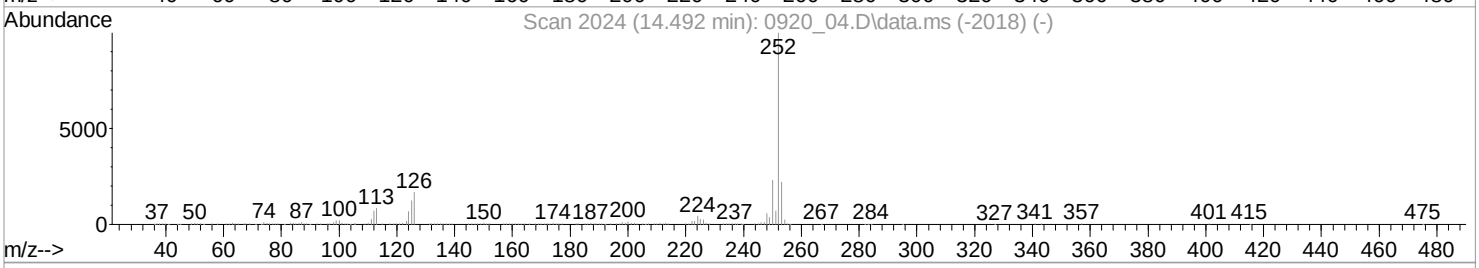
Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\data\112014A\
Data File : 1120a 11.D
Acq On    : 20 Nov 2014  10:27 pm
Operator  : 377
Sample    : STD SVMS 50K PPB 14K07412
Misc      : 8270 PRIMARY CALIBRATION
ALS Vial  : 11   Sample Multiplier: 1

Quant Time: Nov 21 14:21:40 2014
Quant Method : C:\msdchem\1\methods\S819K21N.M
Quant Title  : 8270 BNA
QLast Update : Fri Nov 21 14:21:01 2014
Response via : Initial Calibration
```







TIC: 1120a_11.D\data.ms

(89) Benzo(b)fluoranthene (MT)

14.342min (+0.012) 53489.1479672 ppb m

response 4138347

Ion	Exp%	Act%
252.00	100	100
253.00	22.10	22.50
126.00	20.10	20.30
113.00	9.60	9.67

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\112014A\
Data File : 1120a 12.D
Acq On : 20 Nov 2014 10:51 pm
Operator : 377
Sample : MSTD TCL 10K1 PPB 14G21532
Misc : 8270 TCL CALIBRATION
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Nov 21 14:48:57 2014
Quant Method : C:\msdchem\1\methods\S819K21N.M
Quant Title : 8270 BNA
QLast Update : Fri Nov 21 14:23:24 2014
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 1,4-Dichlorobenzene-d4	5.384	152	109484	8000.0000000 ppb	0.00
22) Naphthalene-d8	6.654	136	471501	8000.0000000 ppb	0.00
40) Acenaphthene-d10	8.536	164	287328	8000.0000000 ppb	0.00
64) Phenanthrene-d10	10.154	188	507203	8000.0000000 ppb	0.00
78) Chrysene-d12	13.042	240	502859	8000.0000000 ppb	0.00
88) Perylene-d12	14.883	264	525822	8000.0000000 ppb	0.00
System Monitoring Compounds					
4) 2-Fluorophenol	0.000	112	0	0.0000000 ppb	
Spiked Amount 20.000	Range 10 - 78		Recovery	= 0.00%#	
7) Phenol-d5	0.000	99	0	0.0000000 ppb	
Spiked Amount 20.000	Range 5 - 70		Recovery	= 0.00%#	
23) Nitrobenzene-d5	0.000	82	0	0.0000000 ppb	
Spiked Amount 10.000	Range 22 - 123		Recovery	= 0.00%#	
44) 2-Fluorobiphenyl	0.000	172	0d	0.0000000 ppb	
Spiked Amount 10.000	Range 30 - 131		Recovery	= 0.00%#	
67) 2,4,6-Tribromophenol	0.000	330	0	0.0000000 ppb	
Spiked Amount 20.000	Range 11 - 130		Recovery	= 0.00%#	
81) p-Terphenyl-d14	0.000	244	0	0.0000000 ppb	
Spiked Amount 10.000	Range 29 - 137		Recovery	= 0.00%#	
Target Compounds					Qvalue
2) Pyridine	0.000		0	N.D. d	
3) N-Nitrosodimethylamine	0.000		0	N.D.	
5) Aniline	0.000		0	N.D.	
6) bis(2-Chloroethyl)ether	0.000		0	N.D.	
8) Phenol	0.000		0	N.D. d	
9) Benzaldehyde	4.990	105	94832	10000.0000000 ppb	100
10) 2-Chlorophenol	0.000		0	N.D.	
11) n-Decane	0.000		0	N.D. d	
12) 1,3-Dichlorobenzene	0.000		0	N.D.	
13) 1,4-Dichlorobenzene	0.000		0	N.D.	
14) Benzyl Alcohol	0.000		0	N.D. d	
15) 1,2-Dichlorobenzene	0.000		0	N.D.	
16) bis(2-Chloroisopropyl)...	0.000		0	N.D.	
17) 2-Methylphenol	0.000		0	N.D.	
18) Hexachloroethane	0.000		0	N.D.	
19) N-Nitrosodi-n-propylamine	0.000		0	N.D.	
20) 3&4-Methyl phenol	0.000		0	N.D. d	
21) Acetophenone	5.754	105	280862	10000.2136326 ppb	100
24) Nitrobenzene	0.000		0	N.D.	
25) Isophorone	0.000		0	N.D. d	
26) 2-Nitrophenol	0.000		0	N.D.	
27) 2,4-Dimethylphenol	0.000		0	N.D. d	
28) bis(2-Chlorethoxy)methane	0.000		0	N.D. d	
29) 2,4-Dichlorophenol	0.000		0	N.D.	
30) Benzoic Acid	6.313	105	111581	9961.6998482 ppb	100
31) 1,2,4-Trichlorobenzene	0.000		0	N.D. d	
32) Naphthalene	0.000		0	N.D. d	
33) 4-Chloroaniline	0.000		0	N.D. d	
34) Hexachloro-1,3-butadiene	0.000		0	N.D.	
35) Caprolactam	7.048	113	57017	10000.0000000 ppb	100
36) 4-Chloro-3-methylphenol	0.000		0	N.D.	
37) 2-Methylnaphthalene	0.000		0	N.D.	

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\112014A\
Data File : 1120a 12.D
Acq On : 20 Nov 2014 10:51 pm
Operator : 377
Sample : MSTD TCL 10K1 PPB 14G21532
Misc : 8270 TCL CALIBRATION
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Nov 21 14:48:57 2014
Quant Method : C:\msdchem\1\methods\S819K21N.M
Quant Title : 8270 BNA
QLast Update : Fri Nov 21 14:23:24 2014
Response via : Initial Calibration

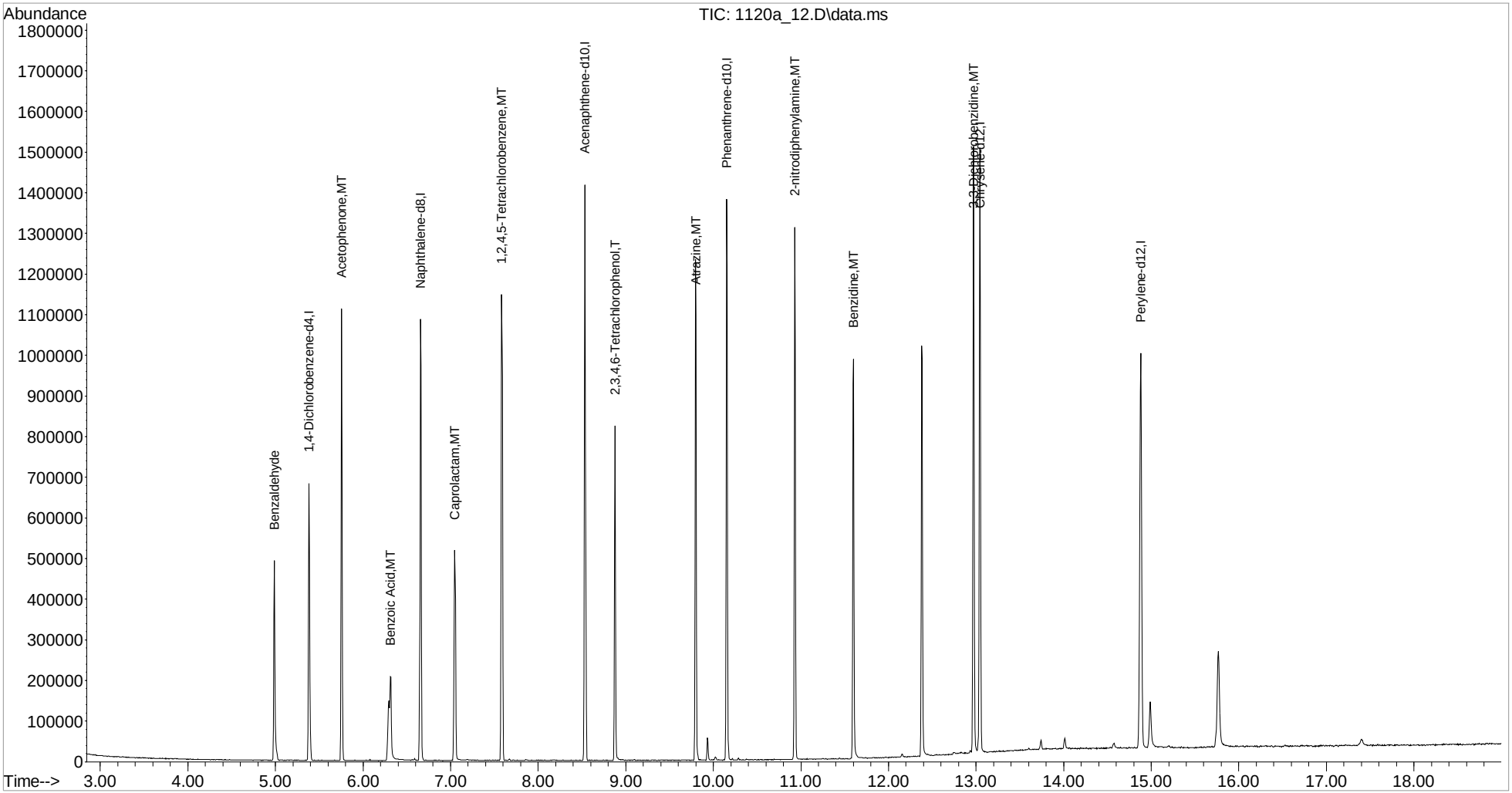
	Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
38)	1-Methylnaphthalene	0.000		0	N.D. d	
39)	1,2,4,5-Tetrachloroben...	7.584	216	193311	10000.0000000 ppb	100
41)	Hexachlorocyclopentadiene	0.000		0	N.D.	
42)	2,4,6-Trichlorophenol	0.000		0	N.D. d	
43)	2,4,5-Trichlorophenol	0.000		0	N.D. d	
45)	Biphenyl	0.000		0	N.D.	
46)	2-Chloronaphthalene	0.000		0	N.D.	
47)	2-Nitroaniline	0.000		0	N.D.	
48)	Acenaphthylene	0.000		0	N.D.	
49)	Dimethyl phthalate	0.000		0	N.D.	
50)	2,6-Dinitrotoluene	0.000		0	N.D.	
51)	3-Nitroaniline	0.000		0	N.D.	
52)	Acenaphthene	0.000		0	N.D.	
53)	2,4-Dinitrophenol	0.000		0	N.D.	
54)	Dibenzofuran	0.000		0	N.D.	
55)	2,4-Dinitrotoluene	0.000		0	N.D.	
56)	2,3,4,6-Tetrachlorophenol	8.878	232	88661	10000.0000000 ppb	100
57)	4-Nitrophenol	0.000		0	N.D. d	
58)	Fluorene	0.000		0	N.D.	
59)	4-Chlorophenyl-phenyle...	0.000		0	N.D.	
60)	Diethyl phthalate	0.000		0	N.D. d	
61)	4-Nitroaniline	0.000		0	N.D.	
62)	Azobenzene	0.000		0	N.D. d	
63)	Atrazine	9.801	200	133392	10000.0000000 ppb	100
65)	4,6-Dinitro-2-methylph...	0.000		0	N.D.	
66)	N-Nitrosodiphenylamine	0.000		0	N.D.	
68)	4-Bromophenyl-phenylether	0.000		0	N.D.	
69)	Hexachlorobenzene	0.000		0	N.D.	
70)	n-octadecane	0.000		0	N.D. d	
71)	Pentachlorophenol	0.000		0	N.D. d	
72)	Phenanthrene	0.000		0	N.D. d	
73)	Anthracene	0.000		0	N.D.	
74)	Carbazole	0.000		0	N.D. d	
75)	Di-n-butyl phthalate	0.000		0	N.D. d	
76)	2-nitrodiphenylamine	10.930	167	179092	10000.0000000 ppb	100
77)	Fluoranthene	0.000		0	N.D.	
79)	Benzidine	11.601	184	400841	9991.3008799 ppb	100
80)	Pyrene	0.000		0	N.D.	
82)	Benzylbutyl phthalate	0.000		0	N.D. d	
83)	3,3-Dichlorobenzidine	12.971	252	305332	10000.0000000 ppb	100
84)	Benzo(a)anthracene	0.000		0	N.D. d	
85)	Chrysene	0.000		0	N.D. d	
86)	bis(2-Ethylhexyl)phtha...	0.000		0	N.D. d	
87)	Di-n-octyl phthalate	0.000		0	N.D. d	
89)	Benzo(b)fluoranthene	0.000		0	N.D.	
90)	Benzo(k)fluoranthene	0.000		0	N.D. d	
91)	Benzo(a)pyrene	0.000		0	N.D. d	
92)	Indeno(1,2,3-cd)pyrene	0.000		0	N.D.	
93)	Dibenz(a,h)anthracene	0.000		0	N.D.	
94)	Benzo(g,h,i)perylene	0.000		0	N.D.	

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\112014A\
Data File : 1120a 12.D
Acq On : 20 Nov 2014 10:51 pm
Operator : 377
Sample : MSTD TCL 10K1 PPB 14G21532
Misc : 8270 TCL CALIBRATION
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Nov 21 14:48:57 2014
Quant Method : C:\msdchem\1\methods\S819K21N.M
Quant Title : 8270 BNA
QLast Update : Fri Nov 21 14:23:24 2014
Response via : Initial Calibration



PDF Generated On: 11/21/2014 -- By: Chris McCord

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\112014A\
Data File : 1120a 13.D
Acq On : 20 Nov 2014 11:15 pm
Operator : 377
Sample : STD TCL .2K1 PPB 14G21532
Misc : 8270 TCL CALIBRATION
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Nov 21 14:50:33 2014
Quant Method : C:\msdchem\1\methods\S819K21N.M
Quant Title : 8270 BNA
QLast Update : Fri Nov 21 14:23:24 2014
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 1,4-Dichlorobenzene-d4	5.384	152	118892	8000.0000000 ppb	0.00
22) Naphthalene-d8	6.654	136	503076	8000.0000000 ppb	0.00
40) Acenaphthene-d10	8.536	164	301100	8000.0000000 ppb	0.00
64) Phenanthrene-d10	10.154	188	513273	8000.0000000 ppb	0.00
78) Chrysene-d12	13.042	240	501643	8000.0000000 ppb	0.00
88) Perylene-d12	14.883	264	543880	8000.0000000 ppb	0.00
System Monitoring Compounds					
4) 2-Fluorophenol	0.000	112	0	0.0000000 ppb	
Spiked Amount 20.000	Range 10 - 78		Recovery	= 0.00%#	
7) Phenol-d5	0.000	99	0	0.0000000 ppb	
Spiked Amount 20.000	Range 5 - 70		Recovery	= 0.00%#	
23) Nitrobenzene-d5	0.000	82	0	0.0000000 ppb	
Spiked Amount 10.000	Range 22 - 123		Recovery	= 0.00%#	
44) 2-Fluorobiphenyl	0.000	172	0d	0.0000000 ppb	
Spiked Amount 10.000	Range 30 - 131		Recovery	= 0.00%#	
67) 2,4,6-Tribromophenol	0.000	330	0	0.0000000 ppb	
Spiked Amount 20.000	Range 11 - 130		Recovery	= 0.00%#	
81) p-Terphenyl-d14	0.000	244	0	0.0000000 ppb	
Spiked Amount 10.000	Range 29 - 137		Recovery	= 0.00%#	
Target Compounds					Qvalue
2) Pyridine	0.000		0	N.D. d	
3) N-Nitrosodimethylamine	0.000		0	N.D.	
5) Aniline	0.000		0	N.D.	
6) bis(2-Chloroethyl)ether	0.000		0	N.D.	
8) Phenol	0.000		0	N.D.	
9) Benzaldehyde	4.990	105	2248	218.2928044 ppb #	81
10) 2-Chlorophenol	0.000		0	N.D.	
11) n-Decane	0.000		0	N.D. d	
12) 1,3-Dichlorobenzene	0.000		0	N.D.	
13) 1,4-Dichlorobenzene	0.000		0	N.D.	
14) Benzyl Alcohol	0.000		0	N.D.	
15) 1,2-Dichlorobenzene	0.000		0	N.D.	
16) bis(2-Chloroisopropyl)...	0.000		0	N.D.	
17) 2-Methylphenol	0.000		0	N.D.	
18) Hexachloroethane	0.000		0	N.D.	
19) N-Nitrosodi-n-propylamine	0.000		0	N.D. d	
20) 3&4-Methyl phenol	0.000		0	N.D.	
21) Acetophenone	5.754	105	5991	196.4326323 ppb	97
24) Nitrobenzene	0.000		0	N.D.	
25) Isophorone	0.000		0	N.D.	
26) 2-Nitrophenol	0.000		0	N.D.	
27) 2,4-Dimethylphenol	0.000		0	N.D.	
28) bis(2-Chlorethoxy)methane	0.000		0	N.D.	
29) 2,4-Dichlorophenol	0.000		0	N.D.	
30) Benzoic Acid	6.278	105	748	62.5883957 ppb	99
31) 1,2,4-Trichlorobenzene	0.000		0	N.D.	
32) Naphthalene	0.000		0	N.D. d	
33) 4-Chloroaniline	0.000		0	N.D. d	
34) Hexachloro-1,3-butadiene	0.000		0	N.D.	
35) Caprolactam	7.036	113	1332	218.9519821 ppb	93
36) 4-Chloro-3-methylphenol	0.000		0	N.D.	
37) 2-Methylnaphthalene	0.000		0	N.D.	

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\112014A\
Data File : 1120a 13.D
Acq On : 20 Nov 2014 11:15 pm
Operator : 377
Sample : STD TCL .2K1 PPB 14G21532
Misc : 8270 TCL CALIBRATION
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Nov 21 14:50:33 2014
Quant Method : C:\msdchem\1\methods\S819K21N.M
Quant Title : 8270 BNA
QLast Update : Fri Nov 21 14:23:24 2014
Response via : Initial Calibration

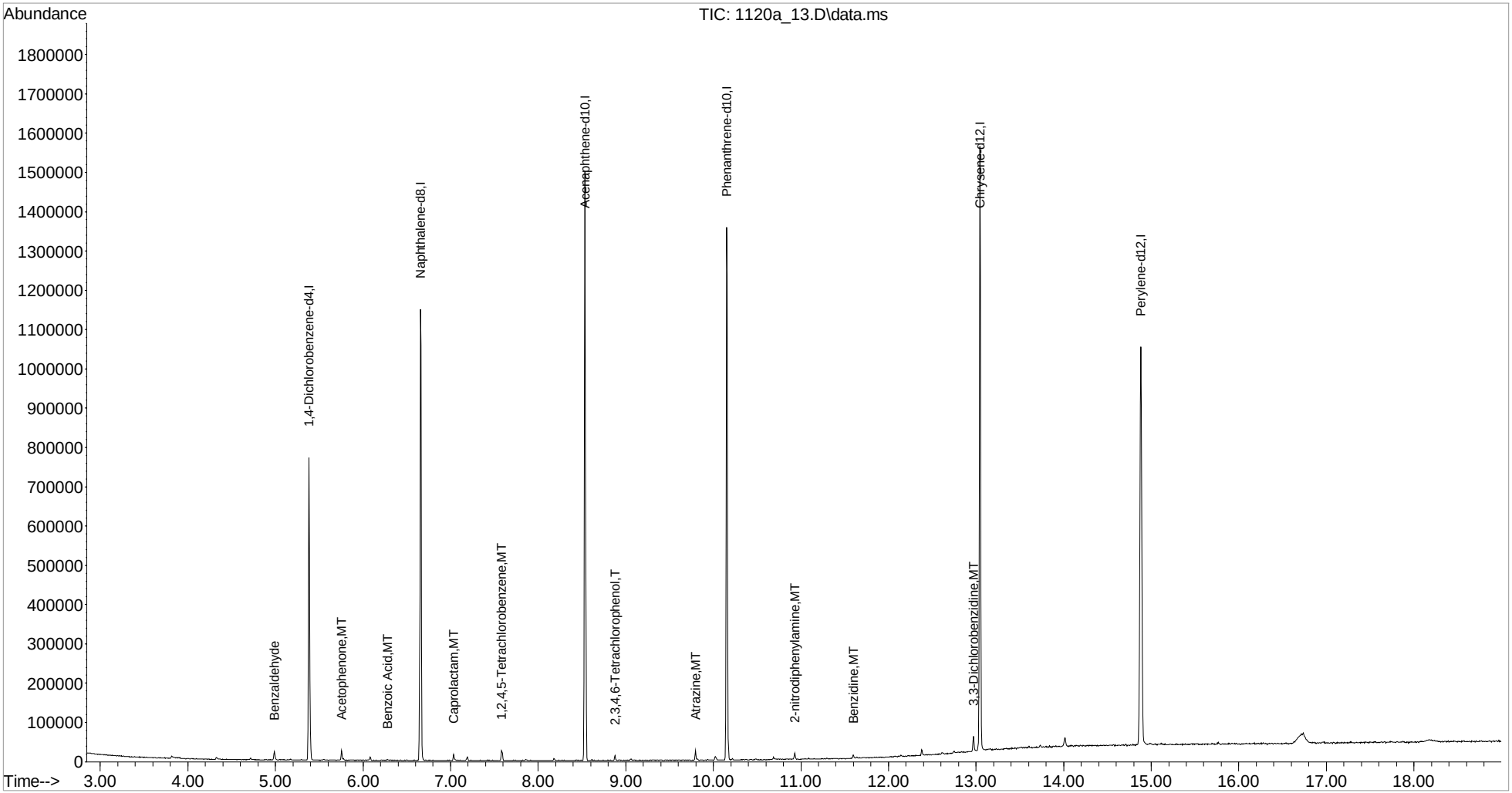
	Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
38)	1-Methylnaphthalene	0.000		0	N.D.	
39)	1,2,4,5-Tetrachloroben...	7.583	216	4311	209.0116407 ppb	94
41)	Hexachlorocyclopentadiene	0.000		0	N.D.	
42)	2,4,6-Trichlorophenol	0.000		0	N.D.	
43)	2,4,5-Trichlorophenol	0.000		0	N.D.	
45)	Biphenyl	0.000		0	N.D.	
46)	2-Chloronaphthalene	0.000		0	N.D.	
47)	2-Nitroaniline	0.000		0	N.D.	
48)	Acenaphthylene	0.000		0	N.D.	
49)	Dimethyl phthalate	0.000		0	N.D.	
50)	2,6-Dinitrotoluene	0.000		0	N.D.	
51)	3-Nitroaniline	0.000		0	N.D.	
52)	Acenaphthene	0.000		0	N.D.	
53)	2,4-Dinitrophenol	0.000		0	N.D.	
54)	Dibenzofuran	0.000		0	N.D.	
55)	2,4-Dinitrotoluene	0.000		0	N.D.	
56)	2,3,4,6-Tetrachlorophenol	8.877	232	1527	164.3514750 ppb	91
57)	4-Nitrophenol	0.000		0	N.D. d	
58)	Fluorene	0.000		0	N.D.	
59)	4-Chlorophenyl-phenyle...	0.000		0	N.D.	
60)	Diethyl phthalate	0.000		0	N.D. d	
61)	4-Nitroaniline	0.000		0	N.D.	
62)	Azobenzene	0.000		0	N.D.	
63)	Atrazine	9.795	200	2240	160.2453472 ppb	88
65)	4,6-Dinitro-2-methylph...	0.000		0	N.D.	
66)	N-Nitrosodiphenylamine	0.000		0	N.D.	
68)	4-Bromophenyl-phenylether	0.000		0	N.D.	
69)	Hexachlorobenzene	0.000		0	N.D.	
70)	n-octadecane	0.000		0	N.D. d	
71)	Pentachlorophenol	0.000		0	N.D. d	
72)	Phenanthrene	0.000		0	N.D. d	
73)	Anthracene	0.000		0	N.D.	
74)	Carbazole	0.000		0	N.D. d	
75)	Di-n-butyl phthalate	0.000		0	N.D. d	
76)	2-nitrodiphenylamine	10.930	167	2327	128.3966200 ppb	91
77)	Fluoranthene	0.000		0	N.D.	
79)	Benzidine	11.601	184	4567	114.1122801 ppb	93
80)	Pyrene	0.000		0	N.D.	
82)	Benzylbutyl phthalate	0.000		0	N.D. d	
83)	3,3-Dichlorobenzidine	12.971	252	5014	164.6127530 ppb	97
84)	Benzo(a)anthracene	0.000		0	N.D. d	
85)	Chrysene	0.000		0	N.D. d	
86)	bis(2-Ethylhexyl)phtha...	0.000		0	N.D. d	
87)	Di-n-octyl phthalate	0.000		0	N.D. d	
89)	Benzo(b)fluoranthene	0.000		0	N.D. d	
90)	Benzo(k)fluoranthene	0.000		0	N.D. d	
91)	Benzo(a)pyrene	0.000		0	N.D. d	
92)	Indeno(1,2,3-cd)pyrene	0.000		0	N.D. d	
93)	Dibenz(a,h)anthracene	0.000		0	N.D. d	
94)	Benzo(g,h,i)perylene	0.000		0	N.D. d	

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\112014A\
Data File : 1120a 13.D
Acq On : 20 Nov 2014 11:15 pm
Operator : 377
Sample : STD TCL .2K1 PPB 14G21532
Misc : 8270 TCL CALIBRATION
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Nov 21 14:50:33 2014
Quant Method : C:\msdchem\1\methods\S819K21N.M
Quant Title : 8270 BNA
QLast Update : Fri Nov 21 14:23:24 2014
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\112014A\
Data File : 1120a 14.D
Acq On : 20 Nov 2014 11:39 pm
Operator : 377
Sample : STD TCL 1K1 PPB 14G21532
Misc : 8270 TCL CALIBRATION
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Nov 21 14:51:51 2014
Quant Method : C:\msdchem\1\methods\S819K21N.M
Quant Title : 8270 BNA
QLast Update : Fri Nov 21 14:23:24 2014
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 1,4-Dichlorobenzene-d4	5.384	152	121863	8000.0000000 ppb	0.00
22) Naphthalene-d8	6.654	136	516587	8000.0000000 ppb	0.00
40) Acenaphthene-d10	8.536	164	313046	8000.0000000 ppb	0.00
64) Phenanthrene-d10	10.160	188	542341	8000.0000000 ppb	0.00
78) Chrysene-d12	13.042	240	530155	8000.0000000 ppb	0.00
88) Perylene-d12	14.883	264	567768	8000.0000000 ppb	0.00
System Monitoring Compounds					
4) 2-Fluorophenol	0.000	112	0	0.0000000 ppb	
Spiked Amount 20.000	Range 10 - 78		Recovery = 0.00%#		
7) Phenol-d5	0.000	99	0	0.0000000 ppb	
Spiked Amount 20.000	Range 5 - 70		Recovery = 0.00%#		
23) Nitrobenzene-d5	0.000	82	0	0.0000000 ppb	
Spiked Amount 10.000	Range 22 - 123		Recovery = 0.00%#		
44) 2-Fluorobiphenyl	0.000	172	0d	0.0000000 ppb	
Spiked Amount 10.000	Range 30 - 131		Recovery = 0.00%#		
67) 2,4,6-Tribromophenol	0.000	330	0	0.0000000 ppb	
Spiked Amount 20.000	Range 11 - 130		Recovery = 0.00%#		
81) p-Terphenyl-d14	0.000	244	0	0.0000000 ppb	
Spiked Amount 10.000	Range 29 - 137		Recovery = 0.00%#		
Target Compounds					Qvalue
2) Pyridine	0.000		0	N.D.	
3) N-Nitrosodimethylamine	0.000		0	N.D.	
5) Aniline	0.000		0	N.D.	
6) bis(2-Chloroethyl)ether	0.000		0	N.D. d	
8) Phenol	0.000		0	N.D.	
9) Benzaldehyde	4.990	105	10529	997.4956409 ppb	95
10) 2-Chlorophenol	0.000		0	N.D.	
11) n-Decane	0.000		0	N.D. d	
12) 1,3-Dichlorobenzene	0.000		0	N.D.	
13) 1,4-Dichlorobenzene	0.000		0	N.D.	
14) Benzyl Alcohol	0.000		0	N.D.	
15) 1,2-Dichlorobenzene	0.000		0	N.D.	
16) bis(2-Chloroisopropyl)...	0.000		0	N.D.	
17) 2-Methylphenol	0.000		0	N.D.	
18) Hexachloroethane	0.000		0	N.D.	
19) N-Nitrosodi-n-propylamine	0.000		0	N.D.	
20) 3&4-Methyl phenol	0.000		0	N.D. d	
21) Acetophenone	5.754	105	29999	959.6256824 ppb	95
24) Nitrobenzene	0.000		0	N.D.	
25) Isophorone	0.000		0	N.D.	
26) 2-Nitrophenol	0.000		0	N.D.	
27) 2,4-Dimethylphenol	0.000		0	N.D.	
28) bis(2-Chlorethoxy)methane	0.000		0	N.D.	
29) 2,4-Dichlorophenol	0.000		0	N.D.	
30) Benzoic Acid	6.278	105	5926	482.8853116 ppb	86
31) 1,2,4-Trichlorobenzene	0.000		0	N.D.	
32) Naphthalene	0.000		0	N.D. d	
33) 4-Chloroaniline	0.000		0	N.D. d	
34) Hexachloro-1,3-butadiene	0.000		0	N.D.	
35) Caprolactam	7.037	113	6307	1009.6192291 ppb	96
36) 4-Chloro-3-methylphenol	0.000		0	N.D.	
37) 2-Methylnaphthalene	0.000		0	N.D.	

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\112014A\
Data File : 1120a 14.D
Acq On : 20 Nov 2014 11:39 pm
Operator : 377
Sample : STD TCL 1K1 PPB 14G21532
Misc : 8270 TCL CALIBRATION
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Nov 21 14:51:51 2014
Quant Method : C:\msdchem\1\methods\S819K21N.M
Quant Title : 8270 BNA
QLast Update : Fri Nov 21 14:23:24 2014
Response via : Initial Calibration

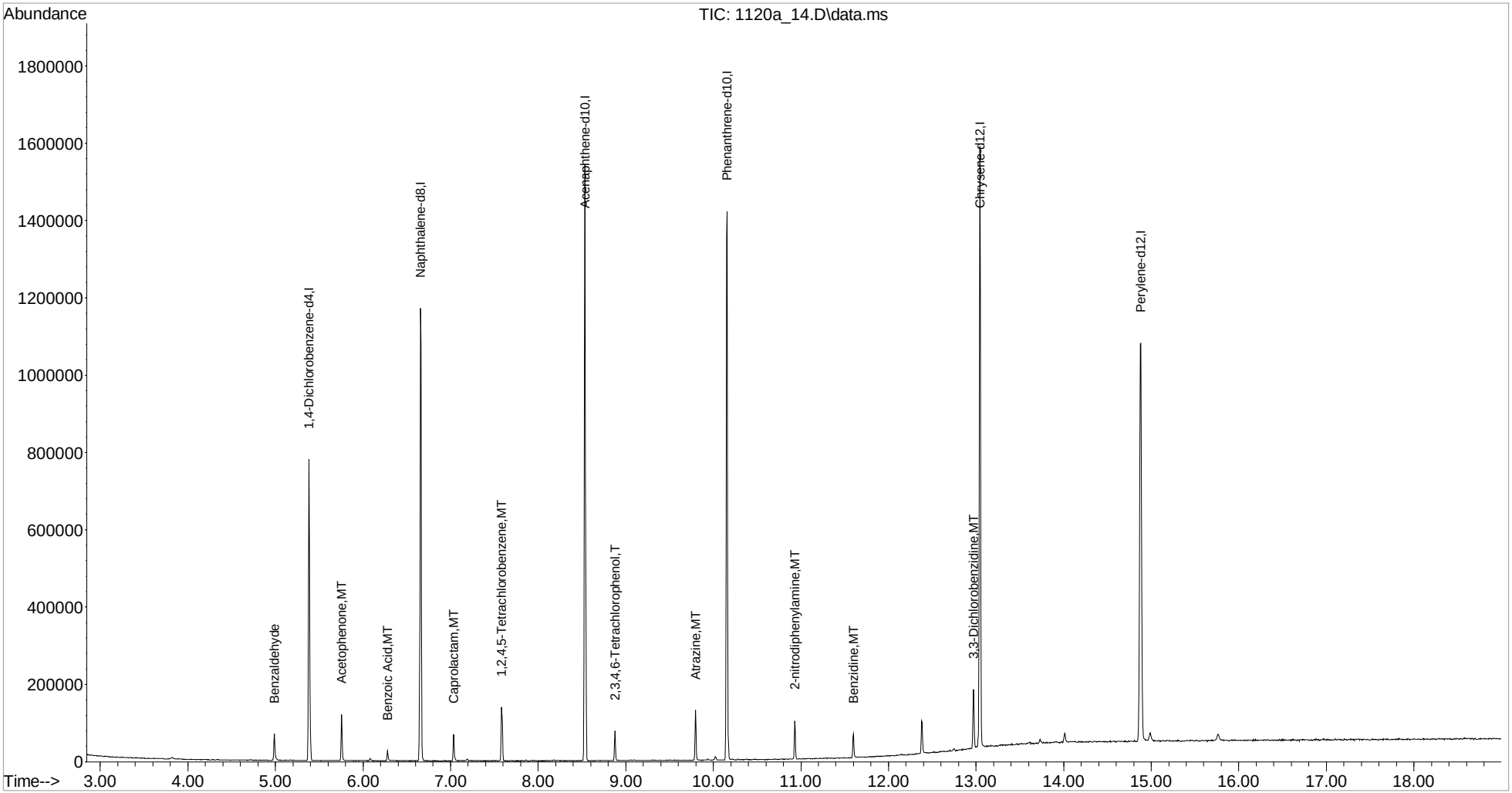
	Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
38)	1-Methylnaphthalene	0.000		0	N.D. d	
39)	1,2,4,5-Tetrachloroben...	7.584	216	21468	1013.6176505 ppb	95
41)	Hexachlorocyclopentadiene	0.000		0	N.D.	
42)	2,4,6-Trichlorophenol	0.000		0	N.D.	
43)	2,4,5-Trichlorophenol	0.000		0	N.D.	
45)	Biphenyl	0.000		0	N.D.	
46)	2-Chloronaphthalene	0.000		0	N.D.	
47)	2-Nitroaniline	0.000		0	N.D.	
48)	Acenaphthylene	0.000		0	N.D.	
49)	Dimethyl phthalate	0.000		0	N.D.	
50)	2,6-Dinitrotoluene	0.000		0	N.D.	
51)	3-Nitroaniline	0.000		0	N.D.	
52)	Acenaphthene	0.000		0	N.D.	
53)	2,4-Dinitrophenol	0.000		0	N.D.	
54)	Dibenzofuran	0.000		0	N.D.	
55)	2,4-Dinitrotoluene	0.000		0	N.D.	
56)	2,3,4,6-Tetrachlorophenol	8.878	232	7815	809.0328349 ppb	95
57)	4-Nitrophenol	0.000		0	N.D.	
58)	Fluorene	0.000		0	N.D.	
59)	4-Chlorophenyl-phenyle...	0.000		0	N.D.	
60)	Diethyl phthalate	0.000		0	N.D. d	
61)	4-Nitroaniline	0.000		0	N.D.	
62)	Azobenzene	0.000		0	N.D.	
63)	Atrazine	9.795	200	12880	886.2492280 ppb	88
65)	4,6-Dinitro-2-methylph...	0.000		0	N.D.	
66)	N-Nitrosodiphenylamine	0.000		0	N.D.	
68)	4-Bromophenyl-phenylether	0.000		0	N.D.	
69)	Hexachlorobenzene	0.000		0	N.D.	
70)	n-octadecane	0.000		0	N.D. d	
71)	Pentachlorophenol	0.000		0	N.D. d	
72)	Phenanthrene	0.000		0	N.D. d	
73)	Anthracene	0.000		0	N.D.	
74)	Carbazole	0.000		0	N.D.	
75)	Di-n-butyl phthalate	0.000		0	N.D. d	
76)	2-nitrodiphenylamine	10.930	167	12527	654.1544002 ppb	94
77)	Fluoranthene	0.000		0	N.D.	
79)	Benzidine	11.601	184	26391	623.9490288 ppb	99
80)	Pyrene	0.000		0	N.D.	
82)	Benzylbutyl phthalate	0.000		0	N.D. d	
83)	3,3-Dichlorobenzidine	12.971	252	28699	891.5337890 ppb	98
84)	Benzo(a)anthracene	0.000		0	N.D. d	
85)	Chrysene	0.000		0	N.D. d	
86)	bis(2-Ethylhexyl)phtha...	0.000		0	N.D. d	
87)	Di-n-octyl phthalate	0.000		0	N.D. d	
89)	Benzo(b)fluoranthene	0.000		0	N.D.	
90)	Benzo(k)fluoranthene	0.000		0	N.D.	
91)	Benzo(a)pyrene	0.000		0	N.D. d	
92)	Indeno(1,2,3-cd)pyrene	0.000		0	N.D.	
93)	Dibenz(a,h)anthracene	0.000		0	N.D.	
94)	Benzo(g,h,i)perylene	0.000		0	N.D.	

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\112014A\
Data File : 1120a 14.D
Acq On : 20 Nov 2014 11:39 pm
Operator : 377
Sample : STD TCL 1K1 PPB 14G21532
Misc : 8270 TCL CALIBRATION
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Nov 21 14:51:51 2014
Quant Method : C:\msdchem\1\methods\S819K21N.M
Quant Title : 8270 BNA
QLast Update : Fri Nov 21 14:23:24 2014
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\112014A\
Data File : 1120a 15.D
Acq On : 21 Nov 2014 12:03 am
Operator : 377
Sample : STD TCL 2K1 PPB 14G21532
Misc : 8270 TCL CALIBRATION
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Nov 21 14:52:58 2014
Quant Method : C:\msdchem\1\methods\S819K21N.M
Quant Title : 8270 BNA
QLast Update : Fri Nov 21 14:23:24 2014
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 1,4-Dichlorobenzene-d4	5.384	152	118586	8000.0000000 ppb	0.00
22) Naphthalene-d8	6.654	136	499363	8000.0000000 ppb	0.00
40) Acenaphthene-d10	8.536	164	300124	8000.0000000 ppb	0.00
64) Phenanthrene-d10	10.154	188	523634	8000.0000000 ppb	0.00
78) Chrysene-d12	13.042	240	517877	8000.0000000 ppb	0.00
88) Perylene-d12	14.883	264	555637	8000.0000000 ppb	0.00
System Monitoring Compounds					
4) 2-Fluorophenol	0.000	112	0	0.0000000 ppb	
Spiked Amount 20.000	Range 10 - 78		Recovery = 0.00%#		
7) Phenol-d5	0.000	99	0	0.0000000 ppb	
Spiked Amount 20.000	Range 5 - 70		Recovery = 0.00%#		
23) Nitrobenzene-d5	0.000	82	0	0.0000000 ppb	
Spiked Amount 10.000	Range 22 - 123		Recovery = 0.00%#		
44) 2-Fluorobiphenyl	0.000	172	0d	0.0000000 ppb	
Spiked Amount 10.000	Range 30 - 131		Recovery = 0.00%#		
67) 2,4,6-Tribromophenol	0.000	330	0	0.0000000 ppb	
Spiked Amount 20.000	Range 11 - 130		Recovery = 0.00%#		
81) p-Terphenyl-d14	0.000	244	0	0.0000000 ppb	
Spiked Amount 10.000	Range 29 - 137		Recovery = 0.00%#		
Target Compounds					Qvalue
2) Pyridine	0.000		0	N.D.	
3) N-Nitrosodimethylamine	0.000		0	N.D.	
5) Aniline	0.000		0	N.D.	
6) bis(2-Chloroethyl)ether	0.000		0	N.D.	
8) Phenol	0.000		0	N.D.	
9) Benzaldehyde	4.990	105	19248	1873.9065787 ppb	97
10) 2-Chlorophenol	0.000		0	N.D.	
11) n-Decane	0.000		0	N.D. d	
12) 1,3-Dichlorobenzene	0.000		0	N.D.	
13) 1,4-Dichlorobenzene	0.000		0	N.D.	
14) Benzyl Alcohol	0.000		0	N.D.	
15) 1,2-Dichlorobenzene	0.000		0	N.D.	
16) bis(2-Chloroisopropyl)...	0.000		0	N.D.	
17) 2-Methylphenol	0.000		0	N.D.	
18) Hexachloroethane	0.000		0	N.D.	
19) N-Nitrosodi-n-propylamine	0.000		0	N.D.	
20) 3&4-Methyl phenol	0.000		0	N.D. d	
21) Acetophenone	5.754	105	58630	1927.3182051 ppb	99
24) Nitrobenzene	0.000		0	N.D.	
25) Isophorone	0.000		0	N.D.	
26) 2-Nitrophenol	0.000		0	N.D.	
27) 2,4-Dimethylphenol	0.000		0	N.D.	
28) bis(2-Chlorethoxy)methane	0.000		0	N.D.	
29) 2,4-Dichlorophenol	0.000		0	N.D.	
30) Benzoic Acid	6.284	105	15804	1332.2216328 ppb	99
31) 1,2,4-Trichlorobenzene	0.000		0	N.D. d	
32) Naphthalene	0.000		0	N.D. d	
33) 4-Chloroaniline	0.000		0	N.D. d	
34) Hexachloro-1,3-butadiene	0.000		0	N.D.	
35) Caprolactam	7.037	113	11756	1946.8006042 ppb	97
36) 4-Chloro-3-methylphenol	0.000		0	N.D.	
37) 2-Methylnaphthalene	0.000		0	N.D.	

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\112014A\
Data File : 1120a 15.D
Acq On : 21 Nov 2014 12:03 am
Operator : 377
Sample : STD TCL 2K1 PPB 14G21532
Misc : 8270 TCL CALIBRATION
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Nov 21 14:52:58 2014
Quant Method : C:\msdchem\1\methods\S819K21N.M
Quant Title : 8270 BNA
QLast Update : Fri Nov 21 14:23:24 2014
Response via : Initial Calibration

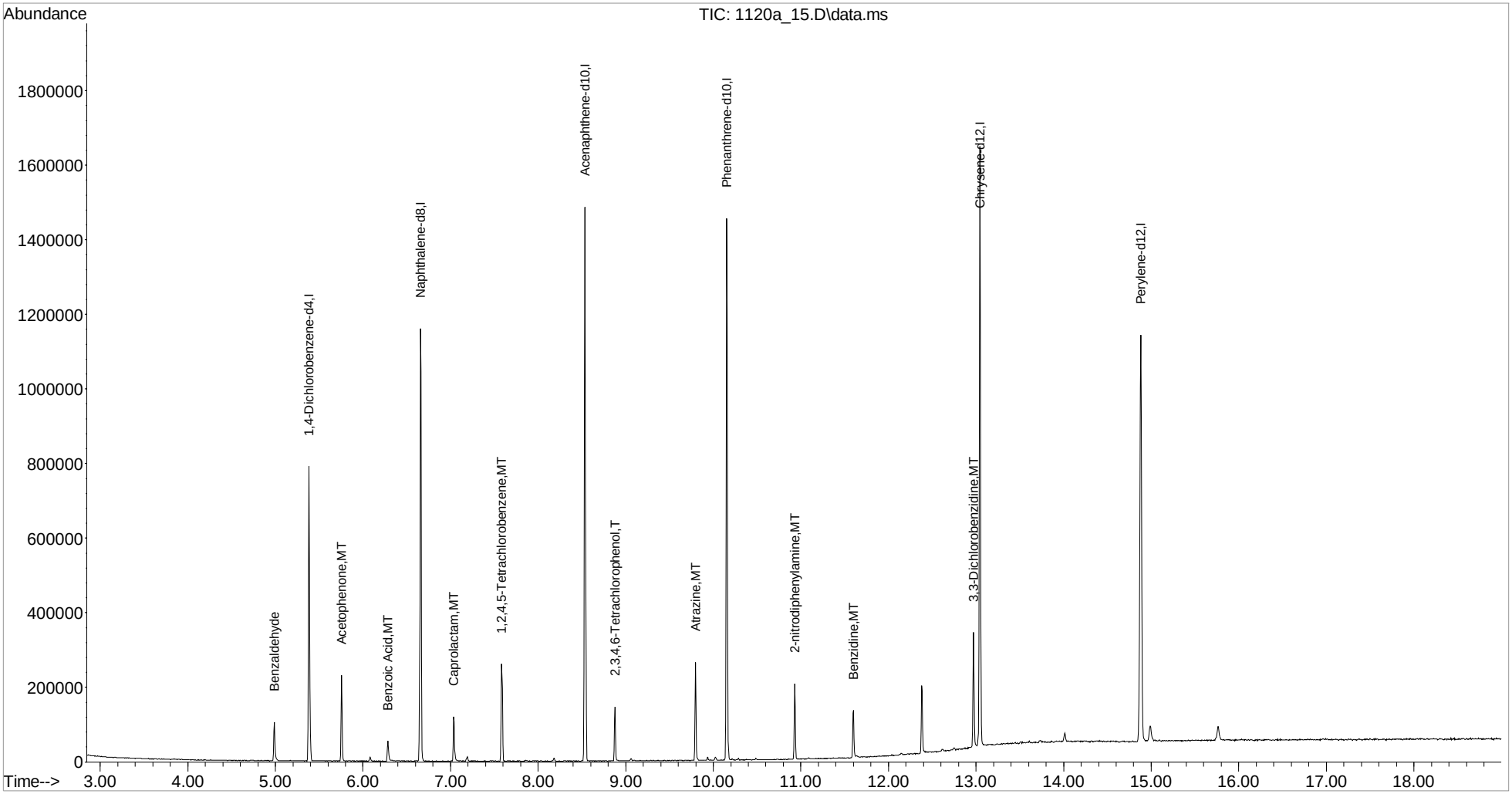
	Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
38)	1-Methylnaphthalene	0.000		0	N.D. d	
39)	1,2,4,5-Tetrachloroben...	7.584	216	40649	1985.4527509 ppb	99
41)	Hexachlorocyclopentadiene	0.000		0	N.D.	
42)	2,4,6-Trichlorophenol	0.000		0	N.D.	
43)	2,4,5-Trichlorophenol	0.000		0	N.D.	
45)	Biphenyl	0.000		0	N.D.	
46)	2-Chloronaphthalene	0.000		0	N.D.	
47)	2-Nitroaniline	0.000		0	N.D.	
48)	Acenaphthylene	0.000		0	N.D.	
49)	Dimethyl phthalate	0.000		0	N.D.	
50)	2,6-Dinitrotoluene	0.000		0	N.D.	
51)	3-Nitroaniline	0.000		0	N.D.	
52)	Acenaphthene	0.000		0	N.D.	
53)	2,4-Dinitrophenol	0.000		0	N.D.	
54)	Dibenzofuran	0.000		0	N.D.	
55)	2,4-Dinitrotoluene	0.000		0	N.D.	
56)	2,3,4,6-Tetrachlorophenol	8.878	232	16331	1763.4265585 ppb	96
57)	4-Nitrophenol	0.000		0	N.D.	
58)	Fluorene	0.000		0	N.D.	
59)	4-Chlorophenyl-phenyle...	0.000		0	N.D.	
60)	Diethyl phthalate	0.000		0	N.D.	
61)	4-Nitroaniline	0.000		0	N.D.	
62)	Azobenzene	0.000		0	N.D.	
63)	Atrazine	9.795	200	24579	1764.0530819 ppb	91
65)	4,6-Dinitro-2-methylph...	0.000		0	N.D.	
66)	N-Nitrosodiphenylamine	0.000		0	N.D.	
68)	4-Bromophenyl-phenylether	0.000		0	N.D.	
69)	Hexachlorobenzene	0.000		0	N.D.	
70)	n-octadecane	0.000		0	N.D. d	
71)	Pentachlorophenol	0.000		0	N.D. d	
72)	Phenanthrene	0.000		0	N.D. d	
73)	Anthracene	0.000		0	N.D.	
74)	Carbazole	0.000		0	N.D.	
75)	Di-n-butyl phthalate	0.000		0	N.D. d	
76)	2-nitrodiphenylamine	10.930	167	25715	1390.7988341 ppb	94
77)	Fluoranthene	0.000		0	N.D.	
79)	Benzidine	11.601	184	55776	1349.9474721 ppb	100
80)	Pyrene	0.000		0	N.D.	
82)	Benzylbutyl phthalate	0.000		0	N.D. d	
83)	3,3-Dichlorobenzidine	12.972	252	58129	1848.5880157 ppb	99
84)	Benzo(a)anthracene	0.000		0	N.D. d	
85)	Chrysene	0.000		0	N.D. d	
86)	bis(2-Ethylhexyl)phtha...	0.000		0	N.D. d	
87)	Di-n-octyl phthalate	0.000		0	N.D. d	
89)	Benzo(b)fluoranthene	0.000		0	N.D.	
90)	Benzo(k)fluoranthene	0.000		0	N.D.	
91)	Benzo(a)pyrene	0.000		0	N.D. d	
92)	Indeno(1,2,3-cd)pyrene	0.000		0	N.D.	
93)	Dibenz(a,h)anthracene	0.000		0	N.D.	
94)	Benzo(g,h,i)perylene	0.000		0	N.D.	

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\112014A\
Data File : 1120a 15.D
Acq On : 21 Nov 2014 12:03 am
Operator : 377
Sample : STD TCL 2K1 PPB 14G21532
Misc : 8270 TCL CALIBRATION
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Nov 21 14:52:58 2014
Quant Method : C:\msdchem\1\methods\S819K21N.M
Quant Title : 8270 BNA
QLast Update : Fri Nov 21 14:23:24 2014
Response via : Initial Calibration



PDF Generated On: 11/21/2014 -- By: Chris McCord

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\112014A\
Data File : 1120a 16.D
Acq On : 21 Nov 2014 12:27 am
Operator : 377
Sample : STD TCL 5K1 PPB 14G21532
Misc : 8270 TCL CALIBRATION
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Nov 21 14:54:04 2014
Quant Method : C:\msdchem\1\methods\S819K21N.M
Quant Title : 8270 BNA
QLast Update : Fri Nov 21 14:23:24 2014
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 1,4-Dichlorobenzene-d4	5.384	152	123786	8000.0000000 ppb	0.00
22) Naphthalene-d8	6.654	136	522149	8000.0000000 ppb	0.00
40) Acenaphthene-d10	8.537	164	317588	8000.0000000 ppb	0.00
64) Phenanthrene-d10	10.154	188	551392	8000.0000000 ppb	0.00
78) Chrysene-d12	13.042	240	549307	8000.0000000 ppb	0.00
88) Perylene-d12	14.883	264	576628	8000.0000000 ppb	0.00
System Monitoring Compounds					
4) 2-Fluorophenol	0.000	112	0	0.0000000 ppb	
Spiked Amount 20.000	Range 10 - 78		Recovery	= 0.00%#	
7) Phenol-d5	0.000	99	0	0.0000000 ppb	
Spiked Amount 20.000	Range 5 - 70		Recovery	= 0.00%#	
23) Nitrobenzene-d5	0.000	82	0	0.0000000 ppb	
Spiked Amount 10.000	Range 22 - 123		Recovery	= 0.00%#	
44) 2-Fluorobiphenyl	0.000	172	0d	0.0000000 ppb	
Spiked Amount 10.000	Range 30 - 131		Recovery	= 0.00%#	
67) 2,4,6-Tribromophenol	0.000	330	0	0.0000000 ppb	
Spiked Amount 20.000	Range 11 - 130		Recovery	= 0.00%#	
81) p-Terphenyl-d14	0.000	244	0	0.0000000 ppb	
Spiked Amount 10.000	Range 29 - 137		Recovery	= 0.00%#	
Target Compounds					Qvalue
2) Pyridine	0.000		0	N.D.	
3) N-Nitrosodimethylamine	0.000		0	N.D.	
5) Aniline	0.000		0	N.D.	
6) bis(2-Chloroethyl)ether	0.000		0	N.D.	
8) Phenol	0.000		0	N.D.	
9) Benzaldehyde	4.990	105	50625	4721.6006600 ppb	99
10) 2-Chlorophenol	0.000		0	N.D.	
11) n-Decane	0.000		0	N.D. d	
12) 1,3-Dichlorobenzene	0.000		0	N.D.	
13) 1,4-Dichlorobenzene	0.000		0	N.D.	
14) Benzyl Alcohol	0.000		0	N.D.	
15) 1,2-Dichlorobenzene	0.000		0	N.D.	
16) bis(2-Chloroisopropyl)...	0.000		0	N.D.	
17) 2-Methylphenol	0.000		0	N.D.	
18) Hexachloroethane	0.000		0	N.D.	
19) N-Nitrosodi-n-propylamine	0.000		0	N.D.	
20) 3&4-Methyl phenol	0.000		0	N.D. d	
21) Acetophenone	5.754	105	152317	4796.7137001 ppb	98
24) Nitrobenzene	0.000		0	N.D.	
25) Isophorone	0.000		0	N.D.	
26) 2-Nitrophenol	0.000		0	N.D.	
27) 2,4-Dimethylphenol	0.000		0	N.D. d	
28) bis(2-Chlorethoxy)methane	0.000		0	N.D. d	
29) 2,4-Dichlorophenol	0.000		0	N.D.	
30) Benzoic Acid	6.290	105	49950	4026.8630779 ppb	97
31) 1,2,4-Trichlorobenzene	0.000		0	N.D. d	
32) Naphthalene	0.000		0	N.D. d	
33) 4-Chloroaniline	0.000		0	N.D. d	
34) Hexachloro-1,3-butadiene	0.000		0	N.D.	
35) Caprolactam	7.043	113	30527	4834.6821973 ppb	98
36) 4-Chloro-3-methylphenol	0.000		0	N.D.	
37) 2-Methylnaphthalene	0.000		0	N.D.	

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\112014A\
Data File : 1120a 16.D
Acq On : 21 Nov 2014 12:27 am
Operator : 377
Sample : STD TCL 5K1 PPB 14G21532
Misc : 8270 TCL CALIBRATION
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Nov 21 14:54:04 2014
Quant Method : C:\msdchem\1\methods\S819K21N.M
Quant Title : 8270 BNA
QLast Update : Fri Nov 21 14:23:24 2014
Response via : Initial Calibration

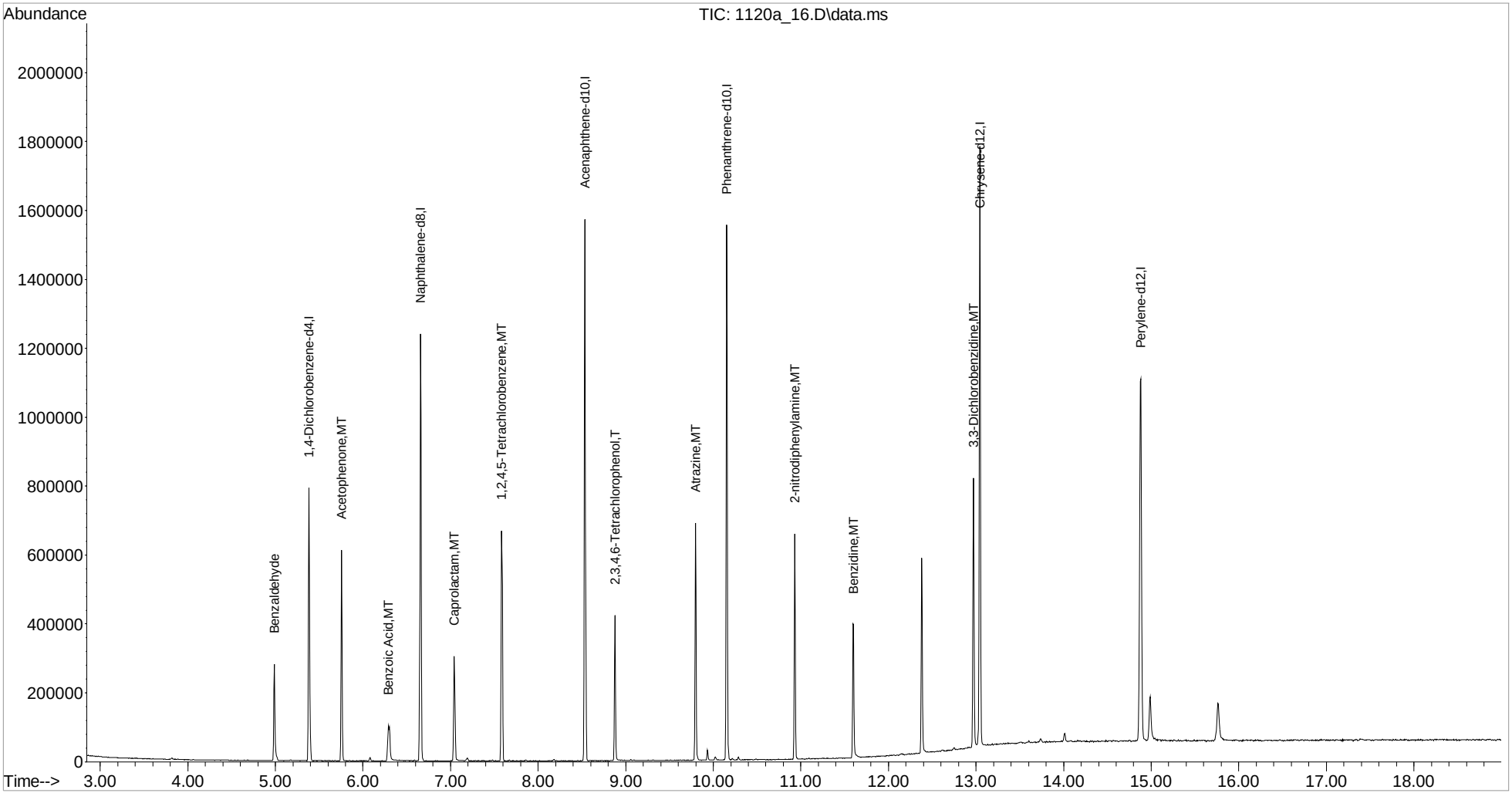
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
38) 1-Methylnaphthalene	0.000		0	N.D. d	
39) 1,2,4,5-Tetrachloroben...	7.584	216	106412	4970.7532587 ppb	98
41) Hexachlorocyclopentadiene	0.000		0	N.D.	
42) 2,4,6-Trichlorophenol	0.000		0	N.D.	
43) 2,4,5-Trichlorophenol	0.000		0	N.D.	
45) Biphenyl	0.000		0	N.D.	
46) 2-Chloronaphthalene	0.000		0	N.D.	
47) 2-Nitroaniline	0.000		0	N.D.	
48) Acenaphthylene	0.000		0	N.D.	
49) Dimethyl phthalate	0.000		0	N.D.	
50) 2,6-Dinitrotoluene	0.000		0	N.D.	
51) 3-Nitroaniline	0.000		0	N.D.	
52) Acenaphthene	0.000		0	N.D.	
53) 2,4-Dinitrophenol	0.000		0	N.D.	
54) Dibenzofuran	0.000		0	N.D.	
55) 2,4-Dinitrotoluene	0.000		0	N.D.	
56) 2,3,4,6-Tetrachlorophenol	8.878	232	45254	4617.8328908 ppb	99
57) 4-Nitrophenol	0.000		0	N.D.	
58) Fluorene	0.000		0	N.D.	
59) 4-Chlorophenyl-phenyle...	0.000		0	N.D.	
60) Diethyl phthalate	0.000		0	N.D.	
61) 4-Nitroaniline	0.000		0	N.D.	
62) Azobenzene	0.000		0	N.D.	
63) Atrazine	9.795	200	69091	4686.0353446 ppb	88
65) 4,6-Dinitro-2-methylph...	0.000		0	N.D.	
66) N-Nitrosodiphenylamine	0.000		0	N.D.	
68) 4-Bromophenyl-phenylether	0.000		0	N.D.	
69) Hexachlorobenzene	0.000		0	N.D.	
70) n-octadecane	0.000		0	N.D. d	
71) Pentachlorophenol	0.000		0	N.D. d	
72) Phenanthrene	0.000		0	N.D. d	
73) Anthracene	0.000		0	N.D.	
74) Carbazole	0.000		0	N.D.	
75) Di-n-butyl phthalate	0.000		0	N.D. d	
76) 2-nitrodiphenylamine	10.931	167	80613	4140.4757948 ppb	98
77) Fluoranthene	0.000		0	N.D.	
79) Benzidine	11.601	184	170460	3889.5868995 ppb	100
80) Pyrene	0.000		0	N.D.	
82) Benzylbutyl phthalate	0.000		0	N.D. d	
83) 3,3-Dichlorobenzidine	12.972	252	159075	4769.3665717 ppb	100
84) Benzo(a)anthracene	0.000		0	N.D. d	
85) Chrysene	0.000		0	N.D. d	
86) bis(2-Ethylhexyl)phtha...	0.000		0	N.D. d	
87) Di-n-octyl phthalate	0.000		0	N.D. d	
89) Benzo(b)fluoranthene	0.000		0	N.D.	
90) Benzo(k)fluoranthene	0.000		0	N.D.	
91) Benzo(a)pyrene	0.000		0	N.D. d	
92) Indeno(1,2,3-cd)pyrene	0.000		0	N.D.	
93) Dibenz(a,h)anthracene	0.000		0	N.D.	
94) Benzo(g,h,i)perylene	0.000		0	N.D.	

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\112014A\
Data File : 1120a 16.D
Acq On : 21 Nov 2014 12:27 am
Operator : 377
Sample : STD TCL 5K1 PPB 14G21532
Misc : 8270 TCL CALIBRATION
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Nov 21 14:54:04 2014
Quant Method : C:\msdchem\1\methods\S819K21N.M
Quant Title : 8270 BNA
QLast Update : Fri Nov 21 14:23:24 2014
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\112014A\
Data File : 1120a 17.D
Acq On : 21 Nov 2014 12:51 am
Operator : 377
Sample : STD TCL 20K1 PPB 14G21532
Misc : 8270 TCL CALIBRATION
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Nov 21 14:55:07 2014
Quant Method : C:\msdchem\1\methods\S819K21N.M
Quant Title : 8270 BNA
QLast Update : Fri Nov 21 14:23:24 2014
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 1,4-Dichlorobenzene-d4	5.383	152	119550	8000.0000000 ppb	0.00
22) Naphthalene-d8	6.654	136	514654	8000.0000000 ppb	0.00
40) Acenaphthene-d10	8.536	164	313206	8000.0000000 ppb	0.00
64) Phenanthrene-d10	10.154	188	543648	8000.0000000 ppb	0.00
78) Chrysene-d12	13.042	240	536804	8000.0000000 ppb	0.00
88) Perylene-d12	14.883	264	579949	8000.0000000 ppb	0.00
System Monitoring Compounds					
4) 2-Fluorophenol	0.000	112	0	0.0000000 ppb	
Spiked Amount 20.000	Range 10 - 78		Recovery = 0.00%#		
7) Phenol-d5	0.000	99	0	0.0000000 ppb	
Spiked Amount 20.000	Range 5 - 70		Recovery = 0.00%#		
23) Nitrobenzene-d5	0.000	82	0d	0.0000000 ppb	
Spiked Amount 10.000	Range 22 - 123		Recovery = 0.00%#		
44) 2-Fluorobiphenyl	0.000	172	0d	0.0000000 ppb	
Spiked Amount 10.000	Range 30 - 131		Recovery = 0.00%#		
67) 2,4,6-Tribromophenol	0.000	330	0	0.0000000 ppb	
Spiked Amount 20.000	Range 11 - 130		Recovery = 0.00%#		
81) p-Terphenyl-d14	0.000	244	0	0.0000000 ppb	
Spiked Amount 10.000	Range 29 - 137		Recovery = 0.00%#		
Target Compounds					Qvalue
2) Pyridine	0.000		0	N.D.	
3) N-Nitrosodimethylamine	0.000		0	N.D.	
5) Aniline	0.000		0	N.D. d	
6) bis(2-Chloroethyl)ether	0.000		0	N.D.	
8) Phenol	0.000		0	N.D. d	
9) Benzaldehyde	4.989	105	214650	20728.9382807 ppb	99
10) 2-Chlorophenol	0.000		0	N.D.	
11) n-Decane	0.000		0	N.D. d	
12) 1,3-Dichlorobenzene	0.000		0	N.D.	
13) 1,4-Dichlorobenzene	0.000		0	N.D.	
14) Benzyl Alcohol	0.000		0	N.D.	
15) 1,2-Dichlorobenzene	0.000		0	N.D.	
16) bis(2-Chloroisopropyl)...	0.000		0	N.D.	
17) 2-Methylphenol	0.000		0	N.D.	
18) Hexachloroethane	0.000		0	N.D.	
19) N-Nitrosodi-n-propylamine	0.000		0	N.D.	
20) 3&4-Methyl phenol	0.000		0	N.D. d	
21) Acetophenone	5.754	105	600354	19576.0370295 ppb	98
24) Nitrobenzene	0.000		0	N.D. d	
25) Isophorone	0.000		0	N.D. d	
26) 2-Nitrophenol	0.000		0	N.D.	
27) 2,4-Dimethylphenol	0.000		0	N.D. d	
28) bis(2-Chlorethoxy)methane	0.000		0	N.D. d	
29) 2,4-Dichlorophenol	0.000		0	N.D.	
30) Benzoic Acid	6.336	105	246654	20174.3072714 ppb	99
31) 1,2,4-Trichlorobenzene	0.000		0	N.D. d	
32) Naphthalene	0.000		0	N.D. d	
33) 4-Chloroaniline	0.000		0	N.D. d	
34) Hexachloro-1,3-butadiene	0.000		0	N.D.	
35) Caprolactam	7.060	113	123328	19816.3923084 ppb	98
36) 4-Chloro-3-methylphenol	0.000		0	N.D.	
37) 2-Methylnaphthalene	0.000		0	N.D.	

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\112014A\
Data File : 1120a 17.D
Acq On : 21 Nov 2014 12:51 am
Operator : 377
Sample : STD TCL 20K1 PPB 14G21532
Misc : 8270 TCL CALIBRATION
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Nov 21 14:55:07 2014
Quant Method : C:\msdchem\1\methods\S819K21N.M
Quant Title : 8270 BNA
QLast Update : Fri Nov 21 14:23:24 2014
Response via : Initial Calibration

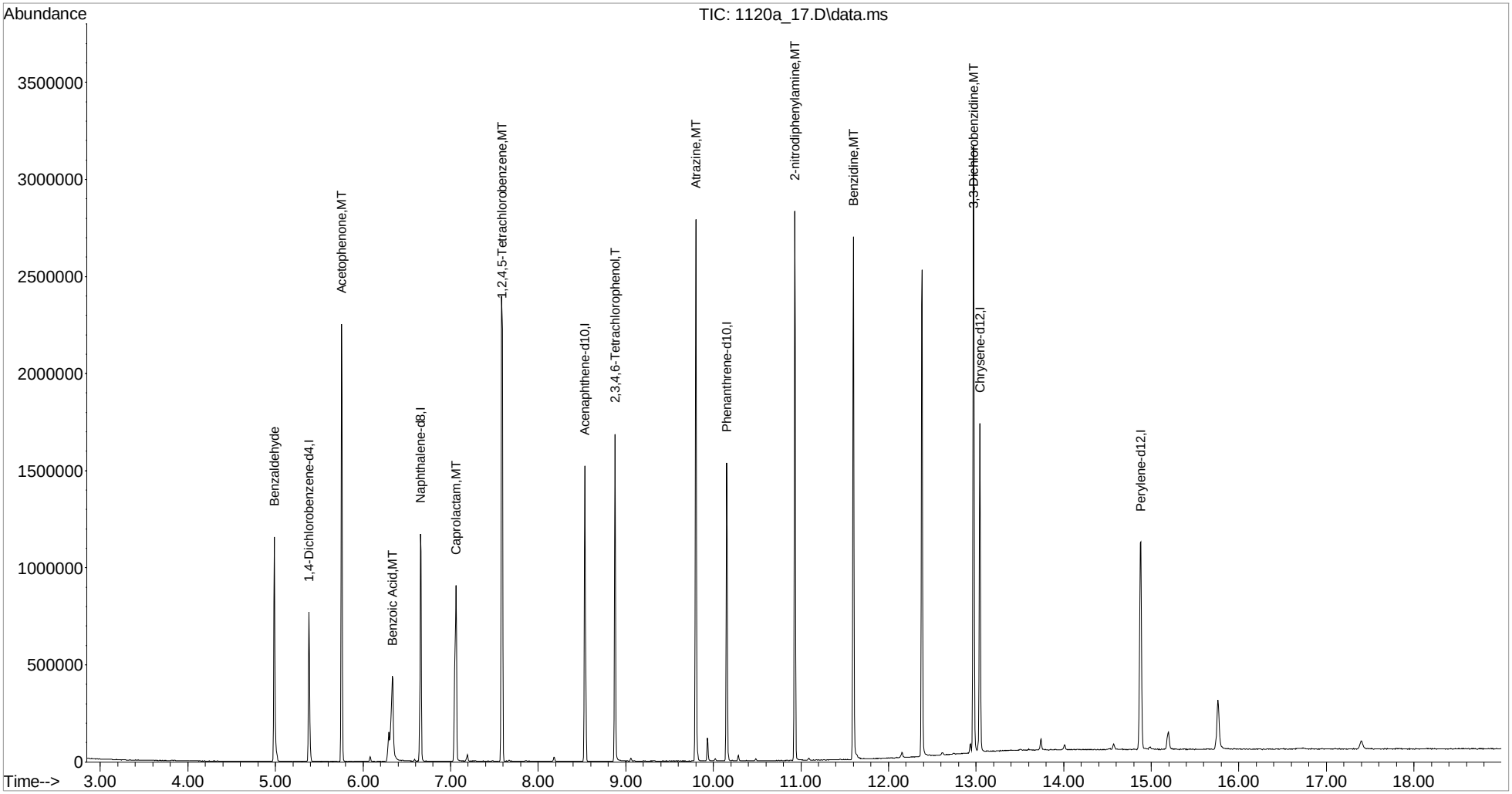
	Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
38)	1-Methylnaphthalene	0.000		0	N.D. d	
39)	1,2,4,5-Tetrachloroben...	7.589	216	413943	19617.8423862 ppb	98
41)	Hexachlorocyclopentadiene	0.000		0	N.D.	
42)	2,4,6-Trichlorophenol	0.000		0	N.D. d	
43)	2,4,5-Trichlorophenol	0.000		0	N.D. d	
45)	Biphenyl	0.000		0	N.D.	
46)	2-Chloronaphthalene	0.000		0	N.D.	
47)	2-Nitroaniline	0.000		0	N.D.	
48)	Acenaphthylene	0.000		0	N.D.	
49)	Dimethyl phthalate	0.000		0	N.D.	
50)	2,6-Dinitrotoluene	0.000		0	N.D.	
51)	3-Nitroaniline	0.000		0	N.D.	
52)	Acenaphthene	0.000		0	N.D.	
53)	2,4-Dinitrophenol	0.000		0	N.D.	
54)	Dibenzofuran	0.000		0	N.D.	
55)	2,4-Dinitrotoluene	0.000		0	N.D.	
56)	2,3,4,6-Tetrachlorophenol	8.877	232	176358	18247.7959706 ppb	96
57)	4-Nitrophenol	0.000		0	N.D.	
58)	Fluorene	0.000		0	N.D.	
59)	4-Chlorophenyl-phenyle...	0.000		0	N.D.	
60)	Diethyl phthalate	0.000		0	N.D. d	
61)	4-Nitroaniline	0.000		0	N.D.	
62)	Azobenzene	0.000		0	N.D. d	
63)	Atrazine	9.801	200	282556	19432.2292984 ppb	93
65)	4,6-Dinitro-2-methylph...	0.000		0	N.D.	
66)	N-Nitrosodiphenylamine	0.000		0	N.D.	
68)	4-Bromophenyl-phenylether	0.000		0	N.D.	
69)	Hexachlorobenzene	0.000		0	N.D.	
70)	n-octadecane	0.000		0	N.D. d	
71)	Pentachlorophenol	0.000		0	N.D. d	
72)	Phenanthrene	0.000		0	N.D. d	
73)	Anthracene	0.000		0	N.D.	
74)	Carbazole	0.000		0	N.D.	
75)	Di-n-butyl phthalate	0.000		0	N.D. d	
76)	2-nitrodiphenylamine	10.930	167	385585	20086.6708562 ppb	99
77)	Fluoranthene	0.000		0	N.D.	
79)	Benzidine	11.601	184	998457	23313.6220083 ppb	100
80)	Pyrene	0.000		0	N.D.	
82)	Benzylbutyl phthalate	0.000		0	N.D. d	
83)	3,3-Dichlorobenzidine	12.971	252	644876	19784.9235260 ppb	99
84)	Benzo(a)anthracene	0.000		0	N.D. d	
85)	Chrysene	0.000		0	N.D. d	
86)	bis(2-Ethylhexyl)phtha...	0.000		0	N.D. d	
87)	Di-n-octyl phthalate	0.000		0	N.D. d	
89)	Benzo(b)fluoranthene	0.000		0	N.D. d	
90)	Benzo(k)fluoranthene	0.000		0	N.D. d	
91)	Benzo(a)pyrene	0.000		0	N.D. d	
92)	Indeno(1,2,3-cd)pyrene	0.000		0	N.D.	
93)	Dibenz(a,h)anthracene	0.000		0	N.D.	
94)	Benzo(g,h,i)perylene	0.000		0	N.D.	

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\112014A\
Data File : 1120a 17.D
Acq On : 21 Nov 2014 12:51 am
Operator : 377
Sample : STD TCL 20K1 PPB 14G21532
Misc : 8270 TCL CALIBRATION
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Nov 21 14:55:07 2014
Quant Method : C:\msdchem\1\methods\S819K21N.M
Quant Title : 8270 BNA
QLast Update : Fri Nov 21 14:23:24 2014
Response via : Initial Calibration



PDF Generated On: 11/21/2014 -- By: Chris McCord

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\112014A\
Data File : 1120a 18.D
Acq On : 21 Nov 2014 1:15 am
Operator : 377
Sample : STD TCL 30K1 PPB 14G21532
Misc : 8270 TCL CALIBRATION
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Nov 21 14:56:34 2014
Quant Method : C:\msdchem\1\methods\S819K21N.M
Quant Title : 8270 BNA
QLast Update : Fri Nov 21 14:23:24 2014
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 1,4-Dichlorobenzene-d4	5.384	152	122301	8000.0000000 ppb	0.00
22) Naphthalene-d8	6.654	136	521422	8000.0000000 ppb	0.00
40) Acenaphthene-d10	8.536	164	314459	8000.0000000 ppb	0.00
64) Phenanthrene-d10	10.154	188	555199	8000.0000000 ppb	0.00
78) Chrysene-d12	13.042	240	530004	8000.0000000 ppb	0.00
88) Perylene-d12	14.877	264	576690	8000.0000000 ppb	0.00
System Monitoring Compounds					
4) 2-Fluorophenol	0.000	112	0	0.0000000 ppb	
Spiked Amount 20.000	Range 10 - 78		Recovery	= 0.00%#	
7) Phenol-d5	0.000	99	0	0.0000000 ppb	
Spiked Amount 20.000	Range 5 - 70		Recovery	= 0.00%#	
23) Nitrobenzene-d5	0.000	82	0d	0.0000000 ppb	
Spiked Amount 10.000	Range 22 - 123		Recovery	= 0.00%#	
44) 2-Fluorobiphenyl	0.000	172	0d	0.0000000 ppb	
Spiked Amount 10.000	Range 30 - 131		Recovery	= 0.00%#	
67) 2,4,6-Tribromophenol	0.000	330	0	0.0000000 ppb	
Spiked Amount 20.000	Range 11 - 130		Recovery	= 0.00%#	
81) p-Terphenyl-d14	0.000	244	0	0.0000000 ppb	
Spiked Amount 10.000	Range 29 - 137		Recovery	= 0.00%#	
Target Compounds					Qvalue
2) Pyridine	0.000		0	N.D.	
3) N-Nitrosodimethylamine	0.000		0	N.D.	
5) Aniline	0.000		0	N.D. d	
6) bis(2-Chloroethyl)ether	0.000		0	N.D.	
8) Phenol	0.000		0	N.D. d	
9) Benzaldehyde	4.990	105	352545	33279.7685803 ppb	98
10) 2-Chlorophenol	0.000		0	N.D.	
11) n-Decane	0.000		0	N.D. d	
12) 1,3-Dichlorobenzene	0.000		0	N.D.	
13) 1,4-Dichlorobenzene	0.000		0	N.D.	
14) Benzyl Alcohol	0.000		0	N.D. d	
15) 1,2-Dichlorobenzene	0.000		0	N.D.	
16) bis(2-Chloroisopropyl)...	0.000		0	N.D.	
17) 2-Methylphenol	0.000		0	N.D.	
18) Hexachloroethane	0.000		0	N.D.	
19) N-Nitrosodi-n-propylamine	0.000		0	N.D.	
20) 3&4-Methyl phenol	0.000		0	N.D. d	
21) Acetophenone	5.754	105	904661	28835.1895023 ppb	97
24) Nitrobenzene	0.000		0	N.D. d	
25) Isophorone	0.000		0	N.D. d	
26) 2-Nitrophenol	0.000		0	N.D.	
27) 2,4-Dimethylphenol	0.000		0	N.D. d	
28) bis(2-Chlorethoxy)methane	0.000		0	N.D. d	
29) 2,4-Dichlorophenol	0.000		0	N.D.	
30) Benzoic Acid	6.354	105	408980m	33017.0707550 ppb	
31) 1,2,4-Trichlorobenzene	0.000		0	N.D. d	
32) Naphthalene	0.000		0	N.D. d	
33) 4-Chloroaniline	0.000		0	N.D. d	
34) Hexachloro-1,3-butadiene	0.000		0	N.D.	
35) Caprolactam	7.072	113	194448	30838.4388788 ppb	93
36) 4-Chloro-3-methylphenol	0.000		0	N.D.	
37) 2-Methylnaphthalene	0.000		0	N.D.	

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\112014A\
Data File : 1120a 18.D
Acq On : 21 Nov 2014 1:15 am
Operator : 377
Sample : STD TCL 30K1 PPB 14G21532
Misc : 8270 TCL CALIBRATION
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Nov 21 14:56:34 2014
Quant Method : C:\msdchem\1\methods\S819K21N.M
Quant Title : 8270 BNA
QLast Update : Fri Nov 21 14:23:24 2014
Response via : Initial Calibration

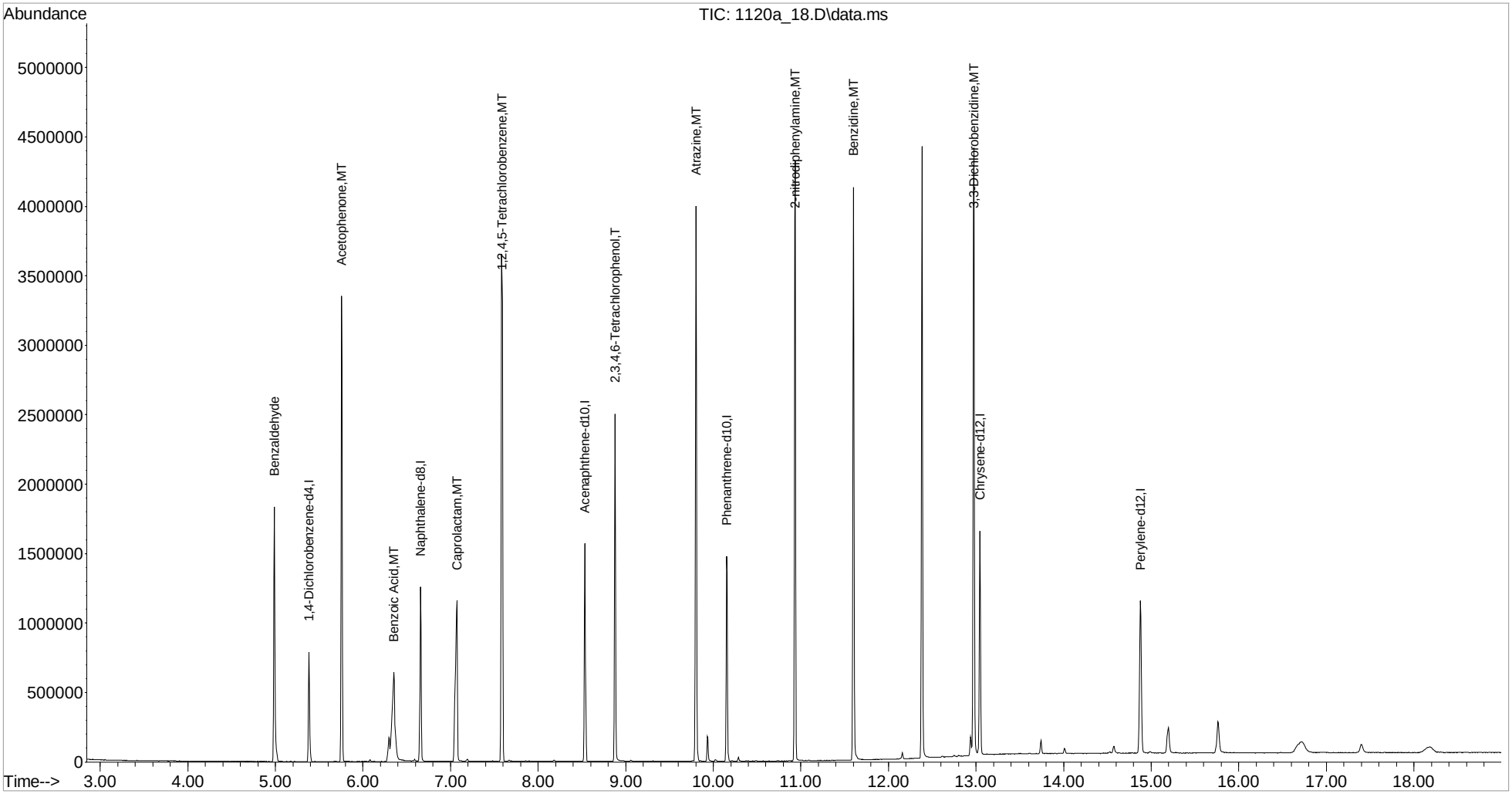
	Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
38)	1-Methylnaphthalene	0.000		0	N.D. d	
39)	1,2,4,5-Tetrachloroben...	7.589	216	626590	29310.2929496 ppb	98
41)	Hexachlorocyclopentadiene	0.000		0	N.D.	
42)	2,4,6-Trichlorophenol	0.000		0	N.D. d	
43)	2,4,5-Trichlorophenol	0.000		0	N.D. d	
45)	Biphenyl	0.000		0	N.D.	
46)	2-Chloronaphthalene	0.000		0	N.D.	
47)	2-Nitroaniline	0.000		0	N.D.	
48)	Acenaphthylene	0.000		0	N.D.	
49)	Dimethyl phthalate	0.000		0	N.D.	
50)	2,6-Dinitrotoluene	0.000		0	N.D.	
51)	3-Nitroaniline	0.000		0	N.D.	
52)	Acenaphthene	0.000		0	N.D.	
53)	2,4-Dinitrophenol	0.000		0	N.D.	
54)	Dibenzofuran	0.000		0	N.D.	
55)	2,4-Dinitrotoluene	0.000		0	N.D.	
56)	2,3,4,6-Tetrachlorophenol	8.878	232	268157	27635.6977276 ppb	96
57)	4-Nitrophenol	0.000		0	N.D.	
58)	Fluorene	0.000		0	N.D.	
59)	4-Chlorophenyl-phenyle...	0.000		0	N.D.	
60)	Diethyl phthalate	0.000		0	N.D. d	
61)	4-Nitroaniline	0.000		0	N.D.	
62)	Azobenzene	0.000		0	N.D. d	
63)	Atrazine	9.801	200	428732	29367.7068671 ppb	88
65)	4,6-Dinitro-2-methylph...	0.000		0	N.D.	
66)	N-Nitrosodiphenylamine	0.000		0	N.D.	
68)	4-Bromophenyl-phenylether	0.000		0	N.D.	
69)	Hexachlorobenzene	0.000		0	N.D.	
70)	n-octadecane	0.000		0	N.D. d	
71)	Pentachlorophenol	0.000		0	N.D. d	
72)	Phenanthrene	0.000		0	N.D. d	
73)	Anthracene	0.000		0	N.D. d	
74)	Carbazole	0.000		0	N.D. d	
75)	Di-n-butyl phthalate	0.000		0	N.D. d	
76)	2-nitrodiphenylamine	10.936	167	612258	31231.3976866 ppb	97
77)	Fluoranthene	0.000		0	N.D.	
79)	Benzidine	11.601	184	1562306	36947.3318620 ppb	99
80)	Pyrene	0.000		0	N.D. d	
82)	Benzylbutyl phthalate	0.000		0	N.D. d	
83)	3,3-Dichlorobenzidine	12.977	252	959322	29809.8068346 ppb	98
84)	Benzo(a)anthracene	0.000		0	N.D. d	
85)	Chrysene	0.000		0	N.D. d	
86)	bis(2-Ethylhexyl)phtha...	0.000		0	N.D. d	
87)	Di-n-octyl phthalate	0.000		0	N.D. d	
89)	Benzo(b)fluoranthene	0.000		0	N.D. d	
90)	Benzo(k)fluoranthene	0.000		0	N.D. d	
91)	Benzo(a)pyrene	0.000		0	N.D. d	
92)	Indeno(1,2,3-cd)pyrene	0.000		0	N.D. d	
93)	Dibenz(a,h)anthracene	0.000		0	N.D.	
94)	Benzo(g,h,i)perylene	0.000		0	N.D.	

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\112014A\
Data File : 1120a 18.D
Acq On : 21 Nov 2014 1:15 am
Operator : 377
Sample : STD TCL 30K1 PPB 14G21532
Misc : 8270 TCL CALIBRATION
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Nov 21 14:56:34 2014
Quant Method : C:\msdchem\1\methods\S819K21N.M
Quant Title : 8270 BNA
QLast Update : Fri Nov 21 14:23:24 2014
Response via : Initial Calibration

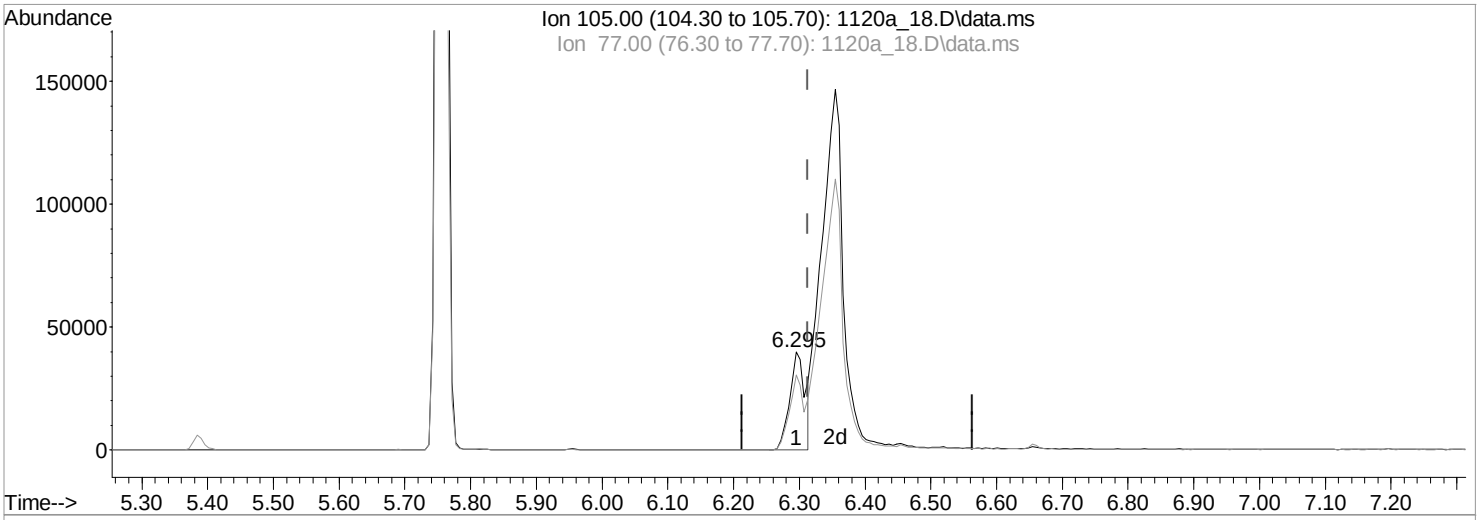


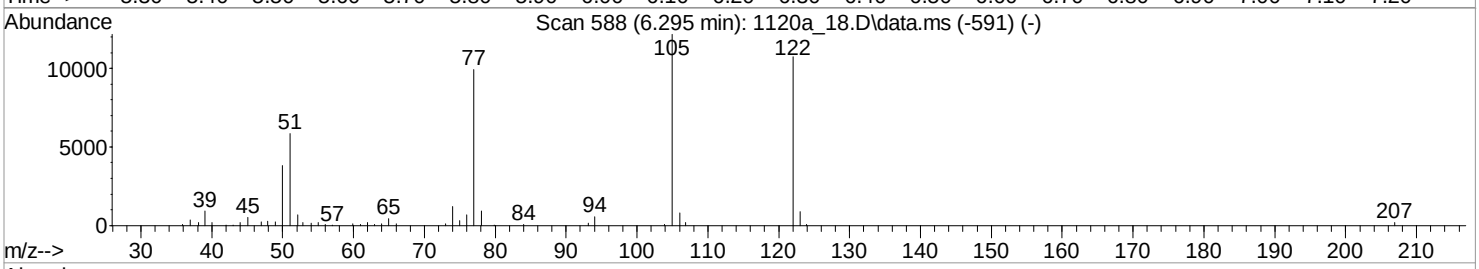
PDF Generated On: 11/21/2014 -- By: Chris McCord

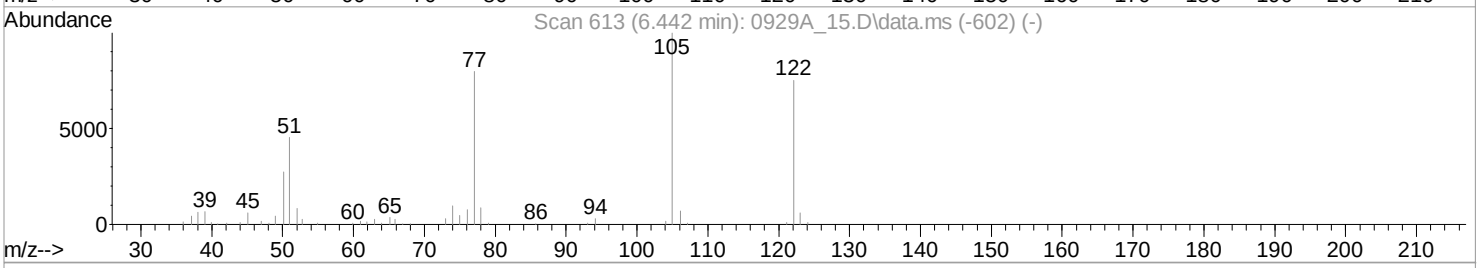
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\112014A\
Data File : 1120a 18.D
Acq On : 21 Nov 2014 1:15 am
Operator : 377
Sample : STD TCL 30K1 PPB 14G21532
Misc : 8270 TCL CALIBRATION
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Nov 21 14:23:46 2014
Quant Method : C:\msdchem\1\methods\S819K21N.M
Quant Title : 8270 BNA
QLast Update : Fri Nov 21 14:23:24 2014
Response via : Initial Calibration







TIC: 1120a_18.D\data.ms

(30) Benzoic Acid (MT)

6.295min (-0.018) 5303.7373402 ppb

Qvalue = 100

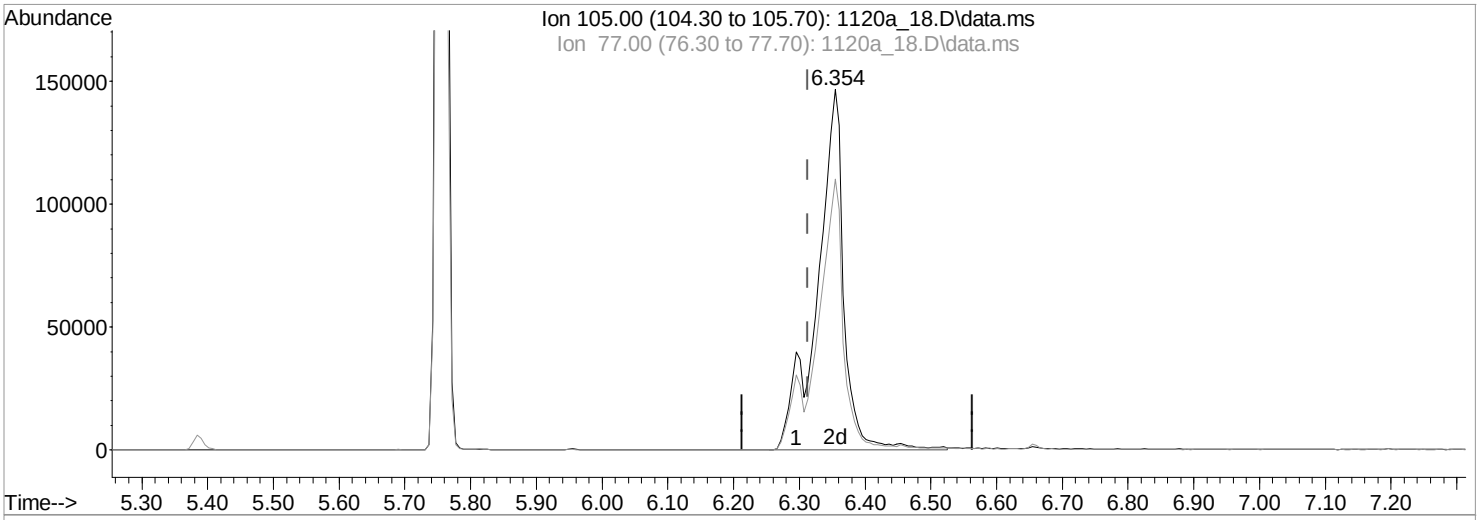
response 65697

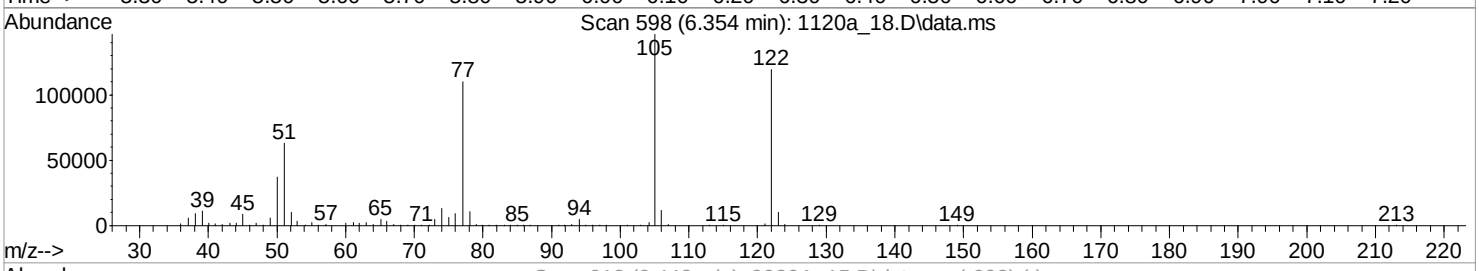
Ion	Exp%	Act%
105.00	100	100
77.00	76.50	76.63
0.00	0.00	0.00
0.00	0.00	0.00

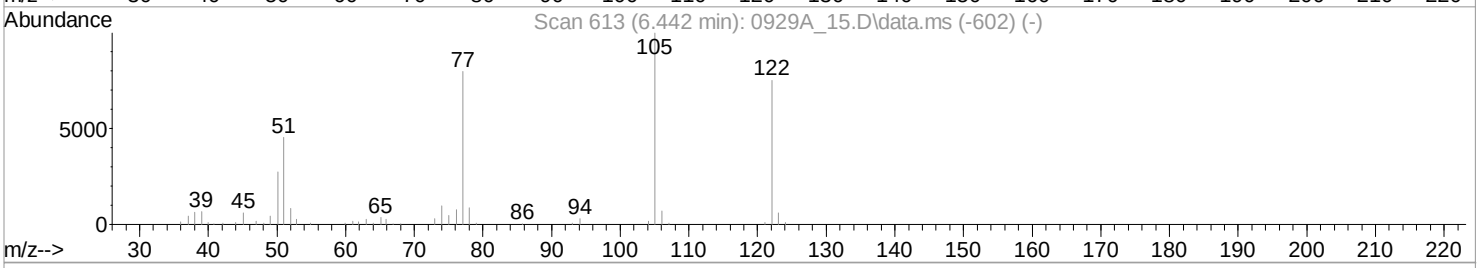
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\112014A\
Data File : 1120a 18.D
Acq On : 21 Nov 2014 1:15 am
Operator : 377
Sample : STD TCL 30K1 PPB 14G21532
Misc : 8270 TCL CALIBRATION
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Nov 21 14:23:46 2014
Quant Method : C:\msdchem\1\methods\S819K21N.M
Quant Title : 8270 BNA
QLast Update : Fri Nov 21 14:23:24 2014
Response via : Initial Calibration







TIC: 1120a_18.D\data.ms

(30) Benzoic Acid (MT)

6.354min (+0.041) 33017.0707550 ppb m

response 408980

Ion	Exp%	Act%
105.00	100	100
77.00	76.50	75.14
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\112014A\
Data File : 1120a 19.D
Acq On : 21 Nov 2014 1:39 am
Operator : 377
Sample : STD TCL 40K1 PPB 14G21532
Misc : 8270 TCL CALIBRATION
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Nov 21 14:57:58 2014
Quant Method : C:\msdchem\1\methods\S819K21N.M
Quant Title : 8270 BNA
QLast Update : Fri Nov 21 14:23:24 2014
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 1,4-Dichlorobenzene-d4	5.384	152	174930	8000.0000000 ppb	0.00
22) Naphthalene-d8	6.654	136	749819	8000.0000000 ppb	0.00
40) Acenaphthene-d10	8.537	164	463090	8000.0000000 ppb	0.00
64) Phenanthrene-d10	10.154	188	813605	8000.0000000 ppb	0.00
78) Chrysene-d12	13.042	240	794393	8000.0000000 ppb	0.00
88) Perylene-d12	14.883	264	874662	8000.0000000 ppb	0.00
System Monitoring Compounds					
4) 2-Fluorophenol	0.000	112	0	0.0000000 ppb	
Spiked Amount 20.000	Range 10 - 78		Recovery	= 0.00%#	
7) Phenol-d5	0.000	99	0	0.0000000 ppb	
Spiked Amount 20.000	Range 5 - 70		Recovery	= 0.00%#	
23) Nitrobenzene-d5	0.000	82	0d	0.0000000 ppb	
Spiked Amount 10.000	Range 22 - 123		Recovery	= 0.00%#	
44) 2-Fluorobiphenyl	0.000	172	0d	0.0000000 ppb	
Spiked Amount 10.000	Range 30 - 131		Recovery	= 0.00%#	
67) 2,4,6-Tribromophenol	0.000	330	0	0.0000000 ppb	
Spiked Amount 20.000	Range 11 - 130		Recovery	= 0.00%#	
81) p-Terphenyl-d14	0.000	244	0d	0.0000000 ppb	
Spiked Amount 10.000	Range 29 - 137		Recovery	= 0.00%#	
Target Compounds					Qvalue
2) Pyridine	0.000		0	N.D.	
3) N-Nitrosodimethylamine	0.000		0	N.D.	
5) Aniline	0.000		0	N.D. d	
6) bis(2-Chloroethyl)ether	0.000		0	N.D. d	
8) Phenol	0.000		0	N.D. d	
9) Benzaldehyde	4.990	105	703542	46432.4370882 ppb	100
10) 2-Chlorophenol	0.000		0	N.D.	
11) n-Decane	0.000		0	N.D. d	
12) 1,3-Dichlorobenzene	0.000		0	N.D.	
13) 1,4-Dichlorobenzene	0.000		0	N.D.	
14) Benzyl Alcohol	0.000		0	N.D. d	
15) 1,2-Dichlorobenzene	0.000		0	N.D.	
16) bis(2-Chloroisopropyl)...	0.000		0	N.D.	
17) 2-Methylphenol	0.000		0	N.D.	
18) Hexachloroethane	0.000		0	N.D.	
19) N-Nitrosodi-n-propylamine	0.000		0	N.D. d	
20) 3&4-Methyl phenol	0.000		0	N.D. d	
21) Acetophenone	5.760	105	1725651	38455.2484028 ppb	98
24) Nitrobenzene	0.000		0	N.D. d	
25) Isophorone	0.000		0	N.D. d	
26) 2-Nitrophenol	0.000		0	N.D.	
27) 2,4-Dimethylphenol	0.000		0	N.D.	
28) bis(2-Chlorethoxy)methane	0.000		0	N.D. d	
29) 2,4-Dichlorophenol	0.000		0	N.D.	
30) Benzoic Acid	6.384	105	903599m	50727.6941300 ppb	
31) 1,2,4-Trichlorobenzene	0.000		0	N.D. d	
32) Naphthalene	0.000		0	N.D. d	
33) 4-Chloroaniline	0.000		0	N.D. d	
34) Hexachloro-1,3-butadiene	0.000		0	N.D.	
35) Caprolactam	7.090	113	382088	42139.0958157 ppb	96
36) 4-Chloro-3-methylphenol	0.000		0	N.D.	
37) 2-Methylnaphthalene	0.000		0	N.D.	

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\112014A\
Data File : 1120a 19.D
Acq On : 21 Nov 2014 1:39 am
Operator : 377
Sample : STD TCL 40K1 PPB 14G21532
Misc : 8270 TCL CALIBRATION
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Nov 21 14:57:58 2014
Quant Method : C:\msdchem\1\methods\S819K21N.M
Quant Title : 8270 BNA
QLast Update : Fri Nov 21 14:23:24 2014
Response via : Initial Calibration

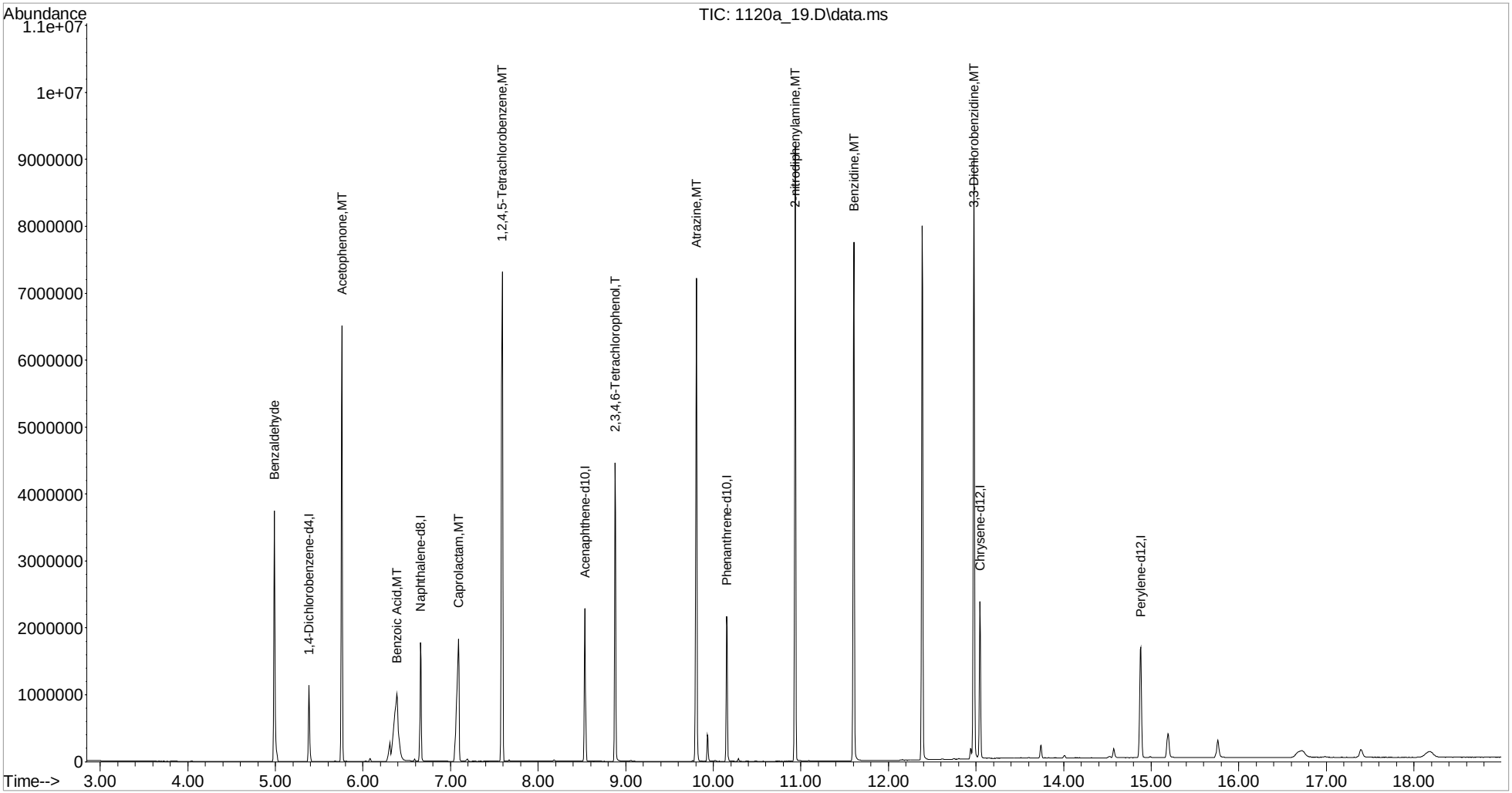
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
38) 1-Methylnaphthalene	0.000		0	N.D. d	
39) 1,2,4,5-Tetrachloroben...	7.590	216	1188818	38670.9625266 ppb	99
41) Hexachlorocyclopentadiene	0.000		0	N.D.	
42) 2,4,6-Trichlorophenol	0.000		0	N.D. d	
43) 2,4,5-Trichlorophenol	0.000		0	N.D. d	
45) Biphenyl	0.000		0	N.D. d	
46) 2-Chloronaphthalene	0.000		0	N.D.	
47) 2-Nitroaniline	0.000		0	N.D.	
48) Acenaphthylene	0.000		0	N.D. d	
49) Dimethyl phthalate	0.000		0	N.D.	
50) 2,6-Dinitrotoluene	0.000		0	N.D.	
51) 3-Nitroaniline	0.000		0	N.D.	
52) Acenaphthene	0.000		0	N.D.	
53) 2,4-Dinitrophenol	0.000		0	N.D.	
54) Dibenzofuran	0.000		0	N.D. d	
55) 2,4-Dinitrotoluene	0.000		0	N.D.	
56) 2,3,4,6-Tetrachlorophenol	8.878	232	502874	35191.6073667 ppb	92
57) 4-Nitrophenol	0.000		0	N.D.	
58) Fluorene	0.000		0	N.D. d	
59) 4-Chlorophenyl-phenyle...	0.000		0	N.D.	
60) Diethyl phthalate	0.000		0	N.D. d	
61) 4-Nitroaniline	0.000		0	N.D.	
62) Azobenzene	0.000		0	N.D. d	
63) Atrazine	9.807	200	825959	38418.5750349 ppb	92
65) 4,6-Dinitro-2-methylph...	0.000		0	N.D.	
66) N-Nitrosodiphenylamine	0.000		0	N.D. d	
68) 4-Bromophenyl-phenylether	0.000		0	N.D.	
69) Hexachlorobenzene	0.000		0	N.D.	
70) n-octadecane	0.000		0	N.D. d	
71) Pentachlorophenol	0.000		0	N.D. d	
72) Phenanthrene	0.000		0	N.D. d	
73) Anthracene	0.000		0	N.D. d	
74) Carbazole	0.000		0	N.D. d	
75) Di-n-butyl phthalate	0.000		0	N.D. d	
76) 2-nitrodiphenylamine	10.936	167	1242430	43247.7928089 ppb	98
77) Fluoranthene	0.000		0	N.D. d	
79) Benzidine	11.607	184	3083732	48656.1057775 ppb	98
80) Pyrene	0.000		0	N.D. d	
82) Benzylbutyl phthalate	0.000		0	N.D. d	
83) 3,3-Dichlorobenzidine	12.977	252	1881530	39007.6371042 ppb	100
84) Benzo(a)anthracene	0.000		0	N.D. d	
85) Chrysene	0.000		0	N.D. d	
86) bis(2-Ethylhexyl)phtha...	0.000		0	N.D. d	
87) Di-n-octyl phthalate	0.000		0	N.D. d	
89) Benzo(b)fluoranthene	0.000		0	N.D. d	
90) Benzo(k)fluoranthene	0.000		0	N.D. d	
91) Benzo(a)pyrene	0.000		0	N.D. d	
92) Indeno(1,2,3-cd)pyrene	0.000		0	N.D. d	
93) Dibenz(a,h)anthracene	0.000		0	N.D. d	
94) Benzo(g,h,i)perylene	0.000		0	N.D. d	

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\112014A\
Data File : 1120a 19.D
Acq On : 21 Nov 2014 1:39 am
Operator : 377
Sample : STD TCL 40K1 PPB 14G21532
Misc : 8270 TCL CALIBRATION
ALS Vial : 19 Sample Multiplier: 1

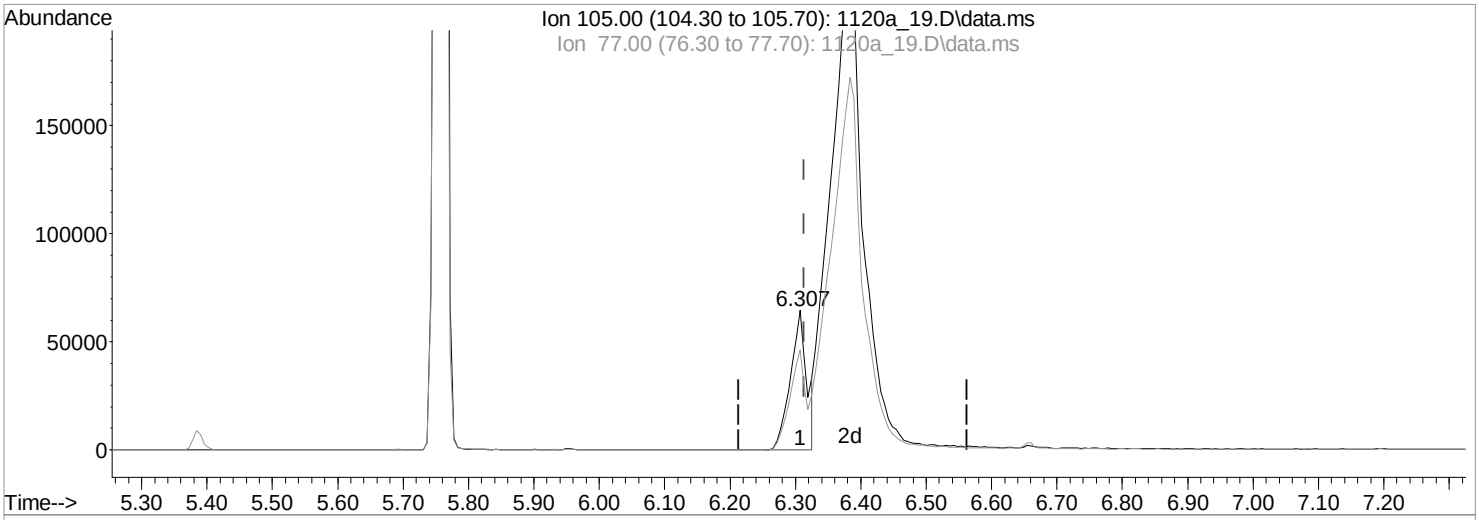
Quant Time: Nov 21 14:57:58 2014
Quant Method : C:\msdchem\1\methods\S819K21N.M
Quant Title : 8270 BNA
QLast Update : Fri Nov 21 14:23:24 2014
Response via : Initial Calibration

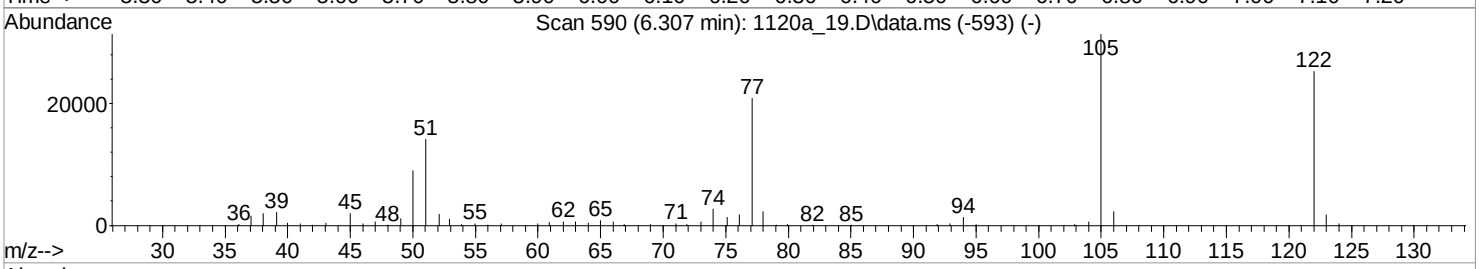


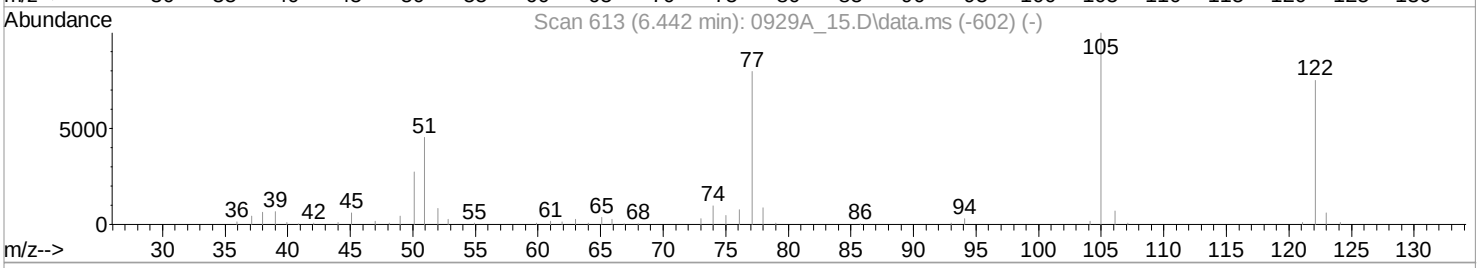
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\112014A\
Data File : 1120a 19.D
Acq On : 21 Nov 2014 1:39 am
Operator : 377
Sample : STD TCL 40K1 PPB 14G21532
Misc : 8270 TCL CALIBRATION
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Nov 21 14:23:50 2014
Quant Method : C:\msdchem\1\methods\S819K21N.M
Quant Title : 8270 BNA
QLast Update : Fri Nov 21 14:23:24 2014
Response via : Initial Calibration







TIC: 1120a_19.D\data.ms

(30) Benzoic Acid (MT)

6.307min (-0.006) 6303.8043628 ppb

Qvalue = 94

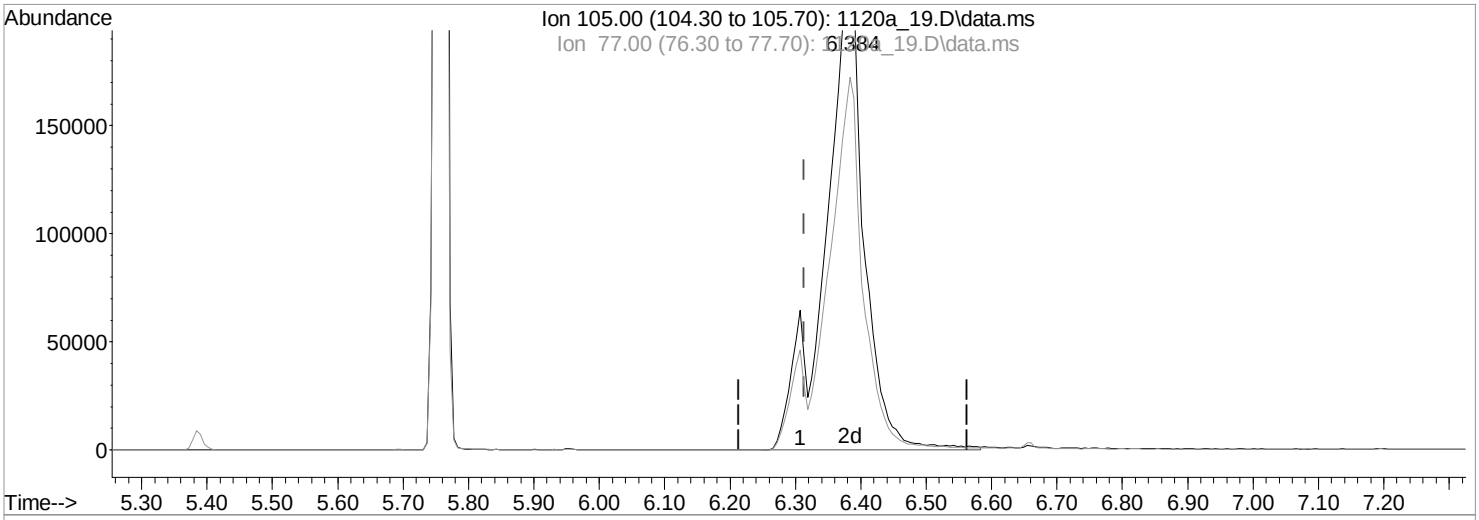
response 112288

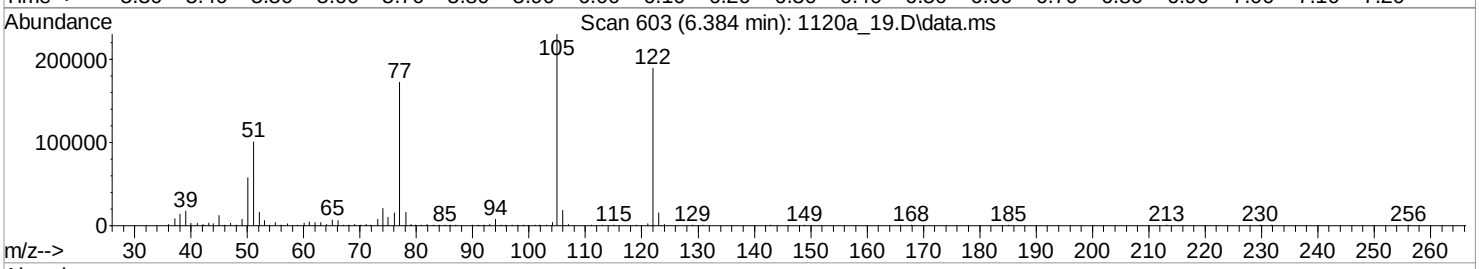
Ion	Exp%	Act%
105.00	100	100
77.00	76.50	71.66
0.00	0.00	0.00
0.00	0.00	0.00

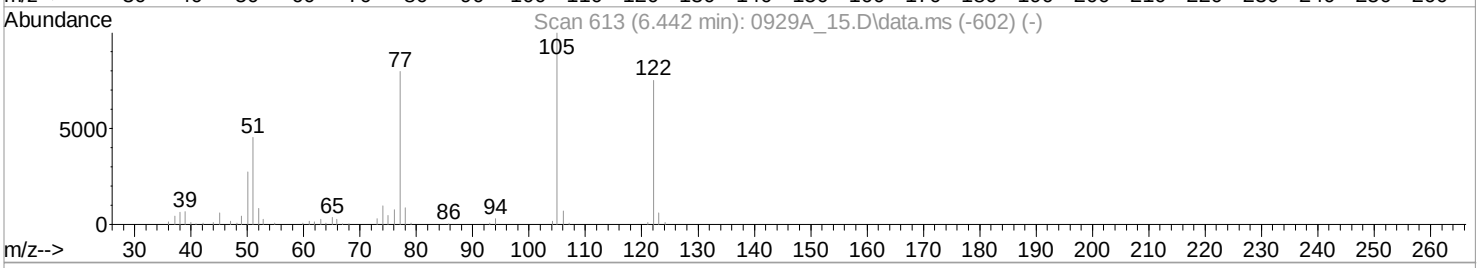
Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\data\112014A\
Data File : 1120a 19.D
Acq On    : 21 Nov 2014   1:39 am
Operator  : 377
Sample    : STD TCL 40K1 PPB 14G21532
Misc      : 8270 TCL CALIBRATION
ALS Vial  : 19   Sample Multiplier: 1

Quant Time: Nov 21 14:23:50 2014
Quant Method : C:\msdchem\1\methods\S819K21N.M
Quant Title  : 8270 BNA
QLast Update : Fri Nov 21 14:23:24 2014
Response via : Initial Calibration
```







TIC: 1120a_19.D\data.ms

(30) Benzoic Acid (MT)

6.384min (+0.071) 50727.6941300 ppb m

response 903599

Ion	Exp%	Act%
105.00	100	100
77.00	76.50	74.78
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\112014A\
Data File : 1120a 20.D
Acq On : 21 Nov 2014 2:03 am
Operator : 377
Sample : STD TCL 50K1 PPB 14G21532
Misc : 8270 TCL CALIBRATION
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Nov 21 14:59:11 2014
Quant Method : C:\msdchem\1\methods\S819K21N.M
Quant Title : 8270 BNA
QLast Update : Fri Nov 21 14:23:24 2014
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 1,4-Dichlorobenzene-d4	5.384	152	123115	8000.0000000 ppb	0.00
22) Naphthalene-d8	6.654	136	526012	8000.0000000 ppb	0.00
40) Acenaphthene-d10	8.536	164	322962	8000.0000000 ppb	0.00
64) Phenanthrene-d10	10.154	188	568374	8000.0000000 ppb	0.00
78) Chrysene-d12	13.042	240	550888	8000.0000000 ppb	0.00
88) Perylene-d12	14.877	264	597921	8000.0000000 ppb	0.00
System Monitoring Compounds					
4) 2-Fluorophenol	0.000	112	0	0.0000000 ppb	
Spiked Amount 20.000	Range 10 - 78		Recovery	= 0.00%#	
7) Phenol-d5	0.000	99	0	0.0000000 ppb	
Spiked Amount 20.000	Range 5 - 70		Recovery	= 0.00%#	
23) Nitrobenzene-d5	0.000	82	0d	0.0000000 ppb	
Spiked Amount 10.000	Range 22 - 123		Recovery	= 0.00%#	
44) 2-Fluorobiphenyl	0.000	172	0d	0.0000000 ppb	
Spiked Amount 10.000	Range 30 - 131		Recovery	= 0.00%#	
67) 2,4,6-Tribromophenol	0.000	330	0	0.0000000 ppb	
Spiked Amount 20.000	Range 11 - 130		Recovery	= 0.00%#	
81) p-Terphenyl-d14	0.000	244	0d	0.0000000 ppb	
Spiked Amount 10.000	Range 29 - 137		Recovery	= 0.00%#	
Target Compounds					Qvalue
2) Pyridine	0.000		0	N.D.	
3) N-Nitrosodimethylamine	0.000		0	N.D.	
5) Aniline	0.000		0	N.D. d	
6) bis(2-Chloroethyl)ether	0.000		0	N.D.	
8) Phenol	0.000		0	N.D. d	
9) Benzaldehyde	4.990	105	602854	56532.3349572 ppb	99
10) 2-Chlorophenol	0.000		0	N.D.	
11) n-Decane	0.000		0	N.D. d	
12) 1,3-Dichlorobenzene	0.000		0	N.D.	
13) 1,4-Dichlorobenzene	0.000		0	N.D.	
14) Benzyl Alcohol	0.000		0	N.D. d	
15) 1,2-Dichlorobenzene	0.000		0	N.D.	
16) bis(2-Chloroisopropyl)...	0.000		0	N.D.	
17) 2-Methylphenol	0.000		0	N.D.	
18) Hexachloroethane	0.000		0	N.D.	
19) N-Nitrosodi-n-propylamine	0.000		0	N.D.	
20) 3&4-Methyl phenol	0.000		0	N.D. d	
21) Acetophenone	5.760	105	1510364	47823.0869187 ppb	98
24) Nitrobenzene	0.000		0	N.D. d	
25) Isophorone	0.000		0	N.D. d	
26) 2-Nitrophenol	0.000		0	N.D.	
27) 2,4-Dimethylphenol	0.000		0	N.D. d	
28) bis(2-Chlorethoxy)methane	0.000		0	N.D. d	
29) 2,4-Dichlorophenol	0.000		0	N.D.	
30) Benzoic Acid	6.378	105	779249m	62360.0453943 ppb	
31) 1,2,4-Trichlorobenzene	0.000		0	N.D. d	
32) Naphthalene	0.000		0	N.D. d	
33) 4-Chloroaniline	0.000		0	N.D. d	
34) Hexachloro-1,3-butadiene	0.000		0	N.D.	
35) Caprolactam	7.084	113	338251	53176.7379555 ppb	95
36) 4-Chloro-3-methylphenol	0.000		0	N.D.	
37) 2-Methylnaphthalene	0.000		0	N.D.	

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\112014A\
Data File : 1120a 20.D
Acq On : 21 Nov 2014 2:03 am
Operator : 377
Sample : STD TCL 50K1 PPB 14G21532
Misc : 8270 TCL CALIBRATION
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Nov 21 14:59:11 2014
Quant Method : C:\msdchem\1\methods\S819K21N.M
Quant Title : 8270 BNA
QLast Update : Fri Nov 21 14:23:24 2014
Response via : Initial Calibration

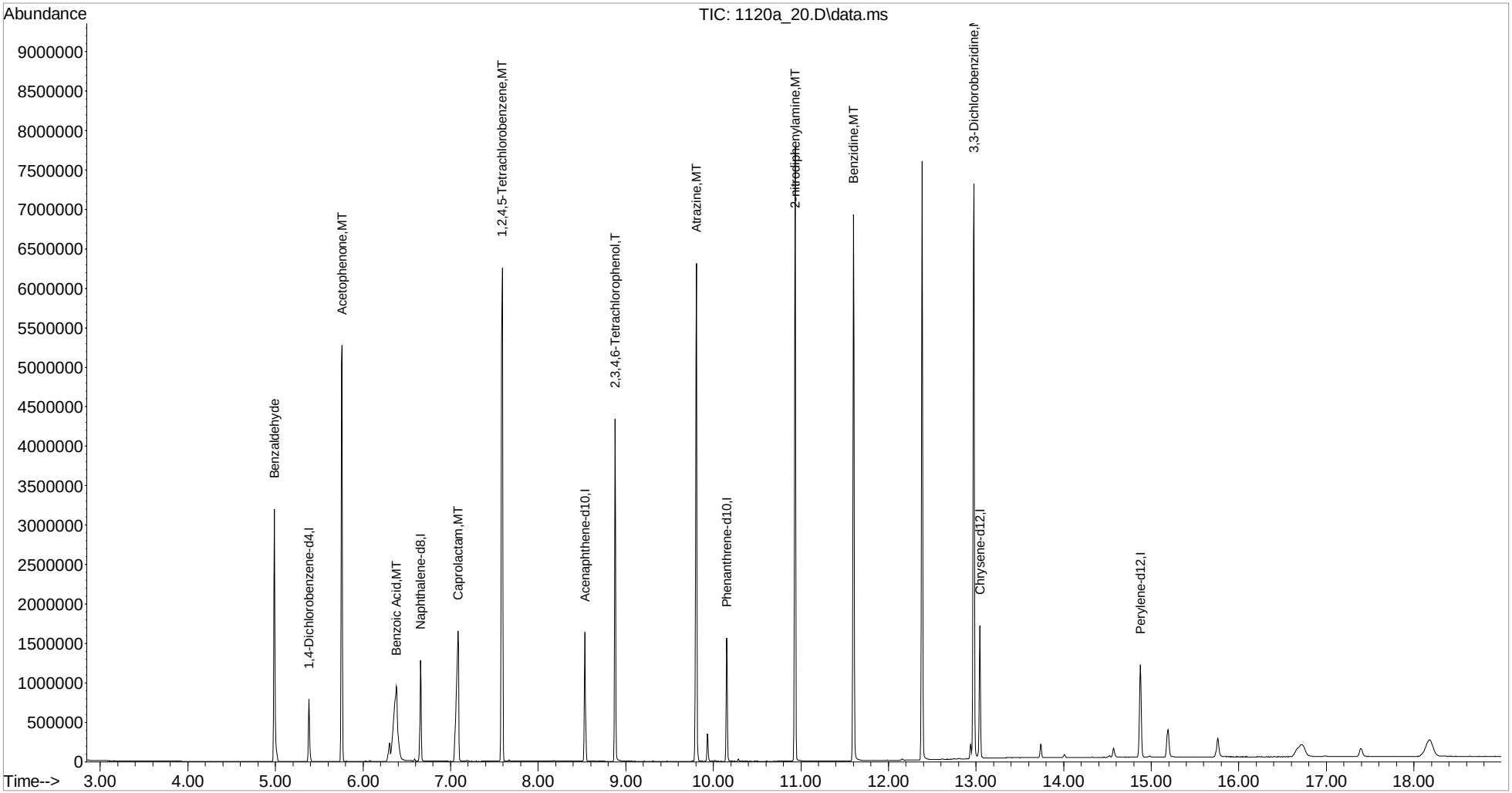
	Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
38)	1-Methylnaphthalene	0.000		0	N.D. d	
39)	1,2,4,5-Tetrachloroben...	7.589	216	1040586	48251.2287519 ppb	99
41)	Hexachlorocyclopentadiene	0.000		0	N.D.	
42)	2,4,6-Trichlorophenol	0.000		0	N.D. d	
43)	2,4,5-Trichlorophenol	0.000		0	N.D. d	
45)	Biphenyl	0.000		0	N.D. d	
46)	2-Chloronaphthalene	0.000		0	N.D.	
47)	2-Nitroaniline	0.000		0	N.D.	
48)	Acenaphthylene	0.000		0	N.D. d	
49)	Dimethyl phthalate	0.000		0	N.D. d	
50)	2,6-Dinitrotoluene	0.000		0	N.D.	
51)	3-Nitroaniline	0.000		0	N.D.	
52)	Acenaphthene	0.000		0	N.D.	
53)	2,4-Dinitrophenol	0.000		0	N.D.	
54)	Dibenzofuran	0.000		0	N.D. d	
55)	2,4-Dinitrotoluene	0.000		0	N.D.	
56)	2,3,4,6-Tetrachlorophenol	8.878	232	452352	45391.0692712 ppb	92
57)	4-Nitrophenol	0.000		0	N.D.	
58)	Fluorene	0.000		0	N.D. d	
59)	4-Chlorophenyl-phenyle...	0.000		0	N.D.	
60)	Diethyl phthalate	0.000		0	N.D. d	
61)	4-Nitroaniline	0.000		0	N.D.	
62)	Azobenzene	0.000		0	N.D. d	
63)	Atrazine	9.807	200	723137	48230.0067904 ppb	95
65)	4,6-Dinitro-2-methylph...	0.000		0	N.D.	
66)	N-Nitrosodiphenylamine	0.000		0	N.D. d	
68)	4-Bromophenyl-phenylether	0.000		0	N.D.	
69)	Hexachlorobenzene	0.000		0	N.D.	
70)	n-octadecane	0.000		0	N.D. d	
71)	Pentachlorophenol	0.000		0	N.D. d	
72)	Phenanthrene	0.000		0	N.D. d	
73)	Anthracene	0.000		0	N.D. d	
74)	Carbazole	0.000		0	N.D. d	
75)	Di-n-butyl phthalate	0.000		0	N.D. d	
76)	2-nitrodiphenylamine	10.936	167	1077346	53681.7453565 ppb	97
77)	Fluoranthene	0.000		0	N.D. d	
79)	Benzidine	11.601	184	2703664	61515.6382229 ppb	99
80)	Pyrene	0.000		0	N.D. d	
82)	Benzylbutyl phthalate	0.000		0	N.D. d	
83)	3,3-Dichlorobenzidine	12.977	252	1642358	49099.6530146 ppb	99
84)	Benzo(a)anthracene	0.000		0	N.D. d	
85)	Chrysene	0.000		0	N.D. d	
86)	bis(2-Ethylhexyl)phtha...	0.000		0	N.D. d	
87)	Di-n-octyl phthalate	0.000		0	N.D. d	
89)	Benzo(b)fluoranthene	0.000		0	N.D. d	
90)	Benzo(k)fluoranthene	0.000		0	N.D. d	
91)	Benzo(a)pyrene	0.000		0	N.D. d	
92)	Indeno(1,2,3-cd)pyrene	0.000		0	N.D. d	
93)	Dibenz(a,h)anthracene	0.000		0	N.D. d	
94)	Benzo(g,h,i)perylene	0.000		0	N.D. d	

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\112014A\
Data File : 1120a 20.D
Acq On : 21 Nov 2014 2:03 am
Operator : 377
Sample : STD TCL 50K1 PPB 14G21532
Misc : 8270 TCL CALIBRATION
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Nov 21 14:59:11 2014
Quant Method : C:\msdchem\1\methods\S819K21N.M
Quant Title : 8270 BNA
QLast Update : Fri Nov 21 14:23:24 2014
Response via : Initial Calibration

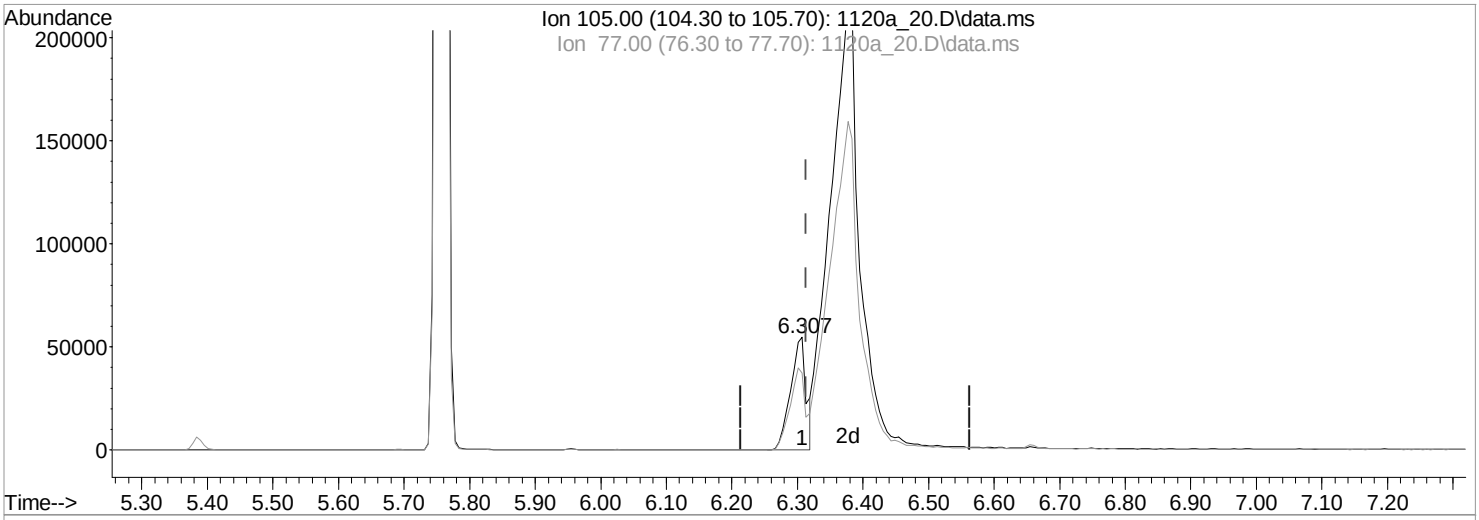


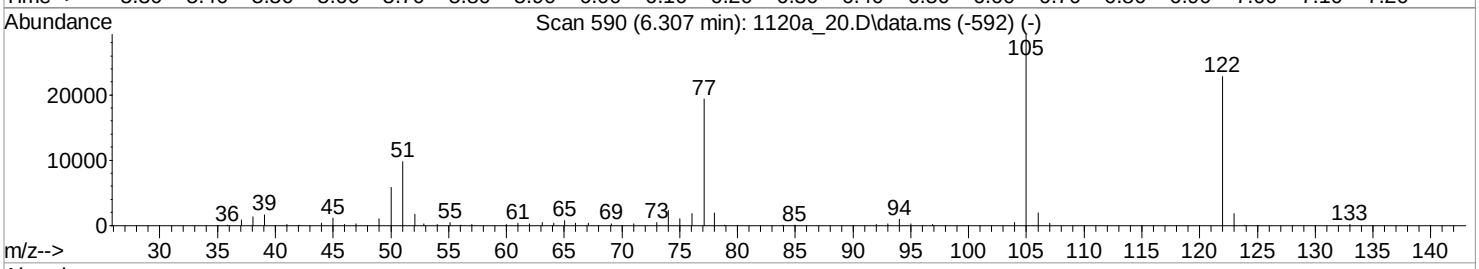
PDF Generated On: 11/21/2014 -- By: Chris McCord

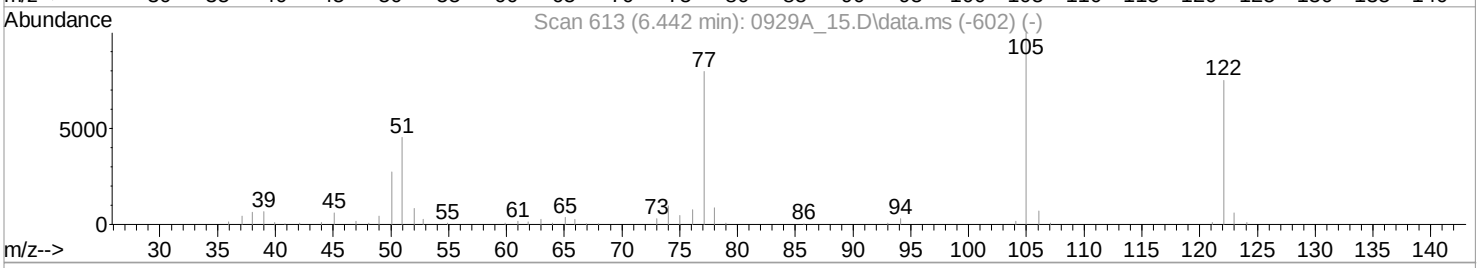
Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\data\112014A\
Data File : 1120a 20.D
Acq On    : 21 Nov 2014   2:03 am
Operator  : 377
Sample    : STD TCL 50K1 PPB 14G21532
Misc      : 8270 TCL CALIBRATION
ALS Vial  : 20   Sample Multiplier: 1

Quant Time: Nov 21 14:23:53 2014
Quant Method : C:\msdchem\1\methods\S819K21N.M
Quant Title  : 8270 BNA
QLast Update : Fri Nov 21 14:23:24 2014
Response via : Initial Calibration
```







TIC: 1120a_20.D\data.ms

(30) Benzoic Acid (MT)

6.307min (-0.006) 7270.8265065 ppb

Qvalue = 90

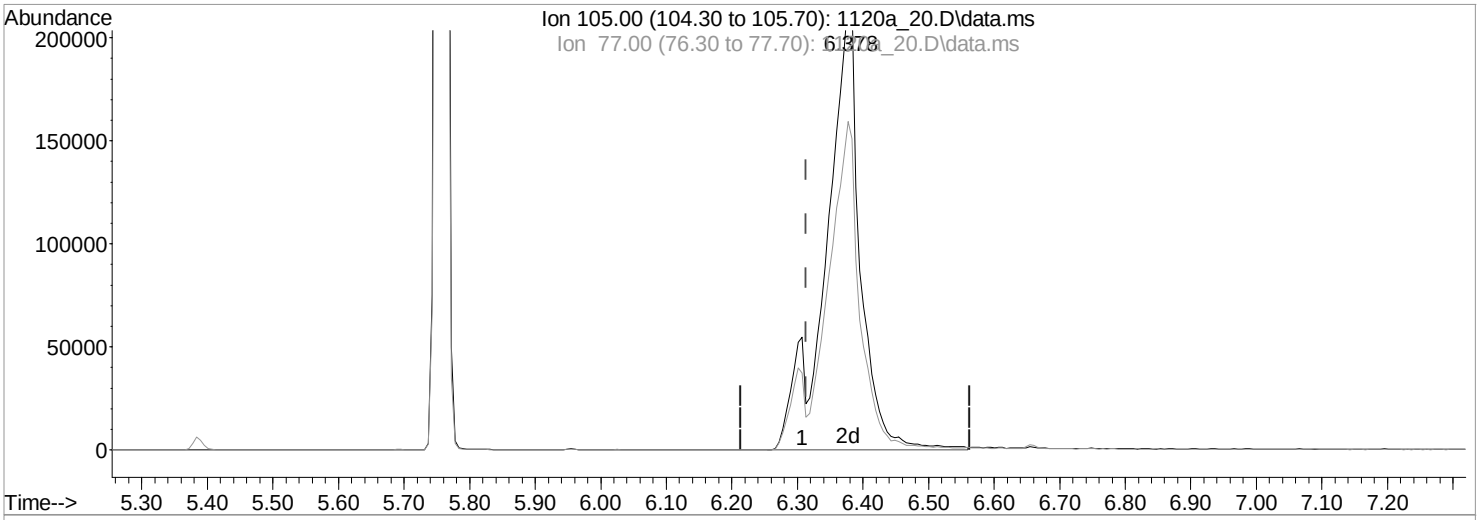
response 90856

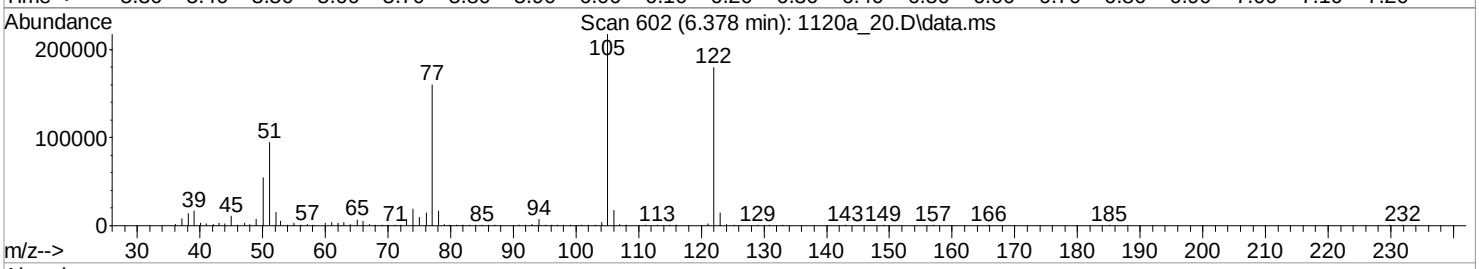
Ion	Exp%	Act%
105.00	100	100
77.00	76.50	68.24
0.00	0.00	0.00
0.00	0.00	0.00

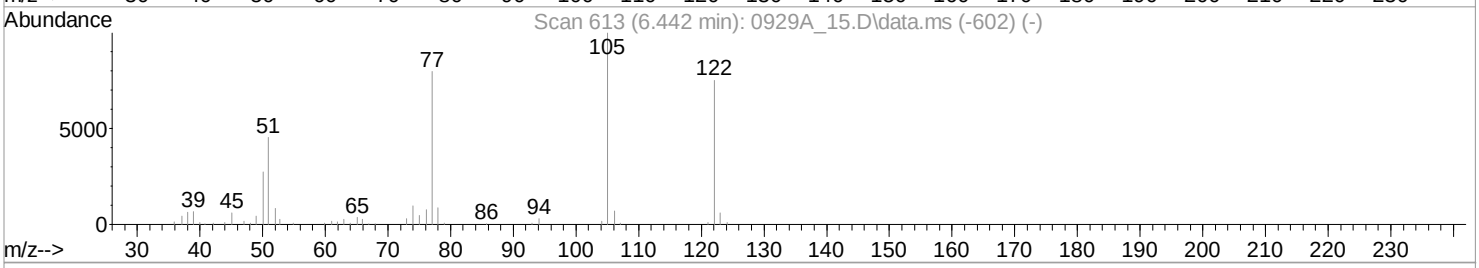
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\112014A\
Data File : 1120a 20.D
Acq On : 21 Nov 2014 2:03 am
Operator : 377
Sample : STD TCL 50K1 PPB 14G21532
Misc : 8270 TCL CALIBRATION
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Nov 21 14:23:53 2014
Quant Method : C:\msdchem\1\methods\S819K21N.M
Quant Title : 8270 BNA
QLast Update : Fri Nov 21 14:23:24 2014
Response via : Initial Calibration







TIC: 1120a_20.D\data.ms

(30) Benzoic Acid (MT)

6.378min (+0.065) 62360.0453943 ppb m

response 779249

Ion	Exp%	Act%
105.00	100	100
77.00	76.50	73.26
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\112114\
Data File : 1121 01.D
Acq On : 21 Nov 2014 3:45 pm
Operator : 377
Sample : TUNE SVMS 50 PPM 14K19964
Misc : DFTPP TUNE
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 21 16:07:11 2014
Quant Method : C:\msdchem\1\methods\TUNEC.M
Quant Title : 8270 BNA
QLast Update : Tue May 21 10:58:22 2013
Response via : Initial Calibration

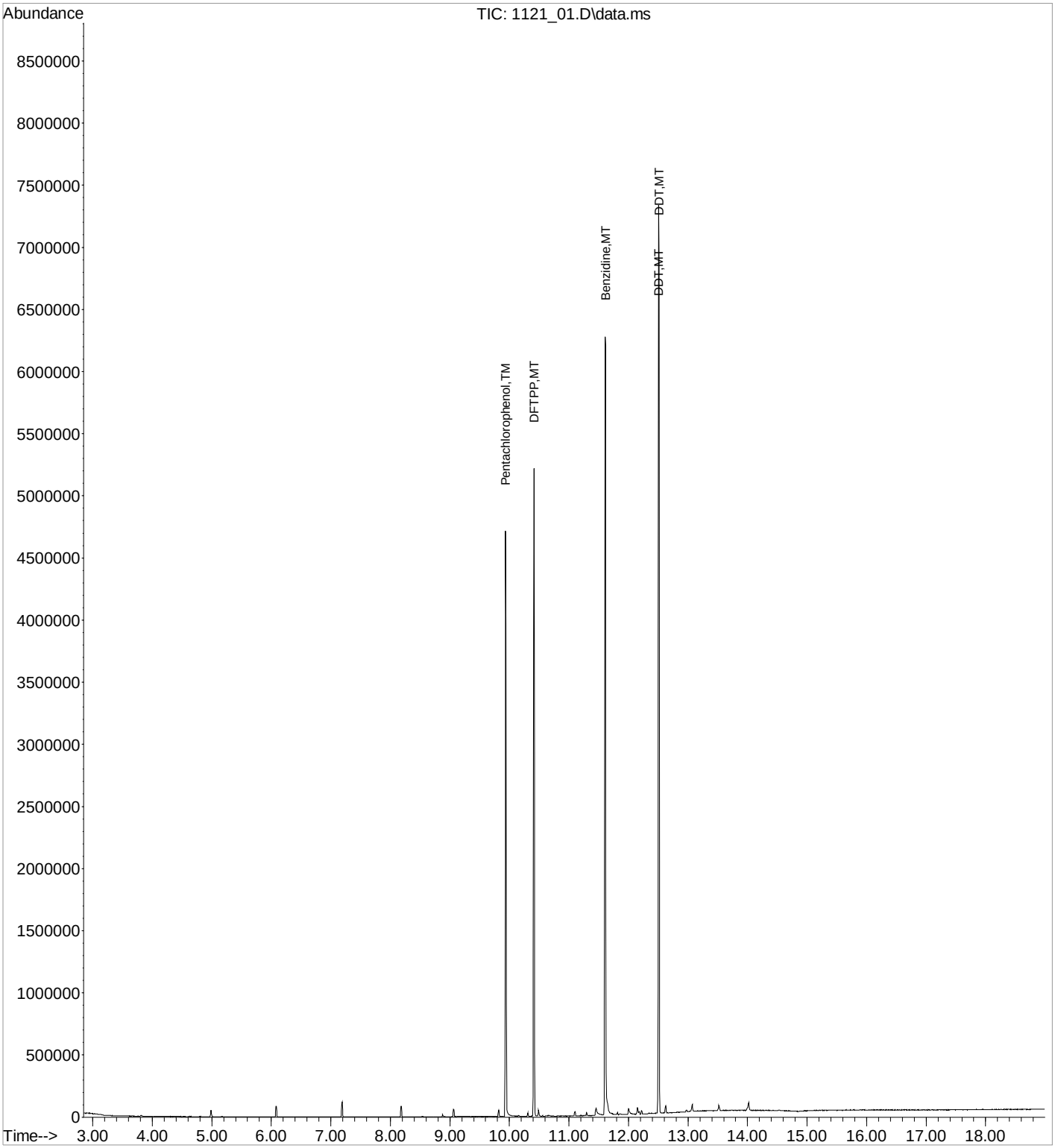
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Target Compounds						Qvalue
1) Pentachlorophenol	9.937	264	307855	52.7578986	ug/mL	100
2) DFTPP	10.413	198	564475	76.2921585	ug/mL	100
3) Benzidine	11.613	184	2694971	112.2827857	ug/mL	100
4) DDT	12.507	TIC	7514013	558.4044405	ug/ml	100
5) DDT	12.513	235	1411791	104.9173542	ug/mL	98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\112114\
Data File : 1121 01.D
Acq On : 21 Nov 2014 3:45 pm
Operator : 377
Sample : TUNE SVMS 50 PPM 14K19964
Misc : DFTPP TUNE
ALS Vial : 2 Sample Multiplier: 1

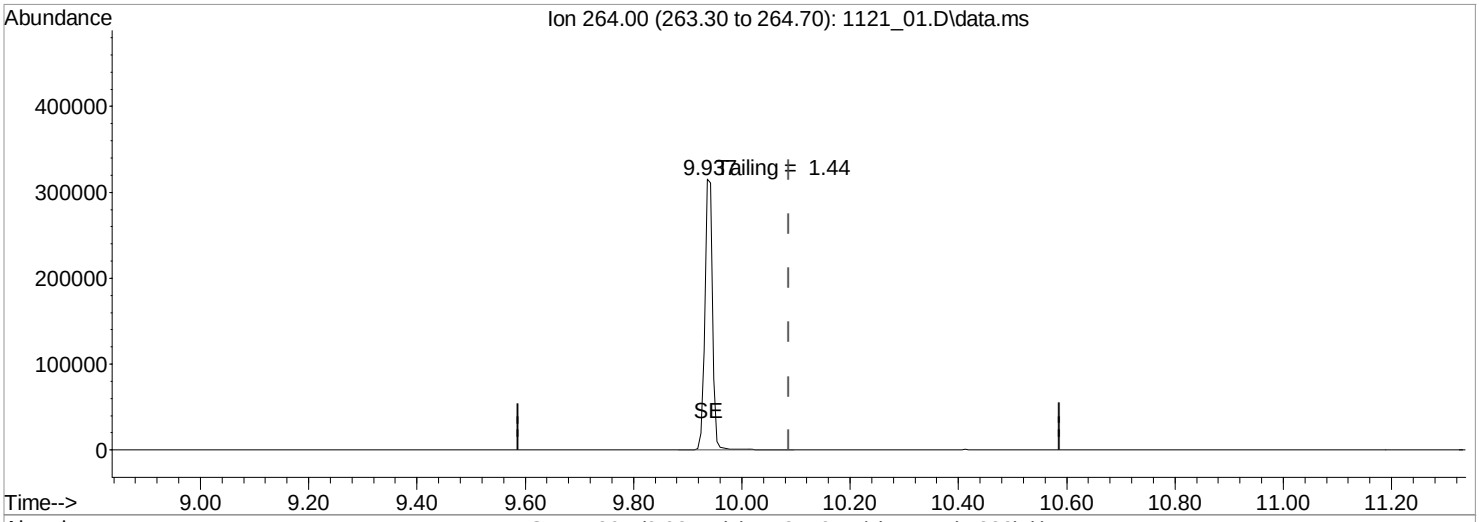
Quant Time: Nov 21 16:07:11 2014
Quant Method : C:\msdchem\1\methods\TUNEC.M
Quant Title : 8270 BNA
QLast Update : Tue May 21 10:58:22 2013
Response via : Initial Calibration

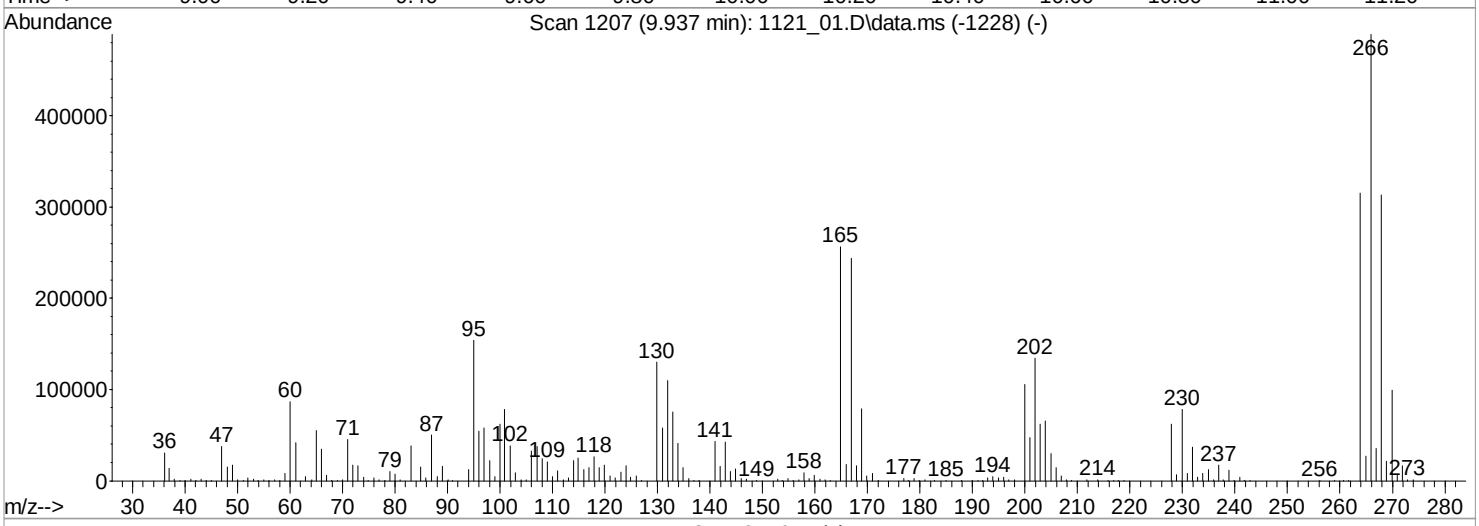


Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\112114\
Data File : 1121 01.D
Acq On : 21 Nov 2014 3:45 pm
Operator : 377
Sample : TUNE SVMS 50 PPM 14K19964
Misc : DFTPP TUNE
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 21 16:07:11 2014
Quant Method : C:\msdchem\1\methods\TUNEC.M
Quant Title : 8270 BNA
QLast Update : Tue May 21 10:58:22 2013
Response via : Initial Calibration





TIC: 1121_01.D\data.ms

(1) Pentachlorophenol (TM)

9.937min (-0.150) 52.7578986 ug/mL

Qvalue = 100

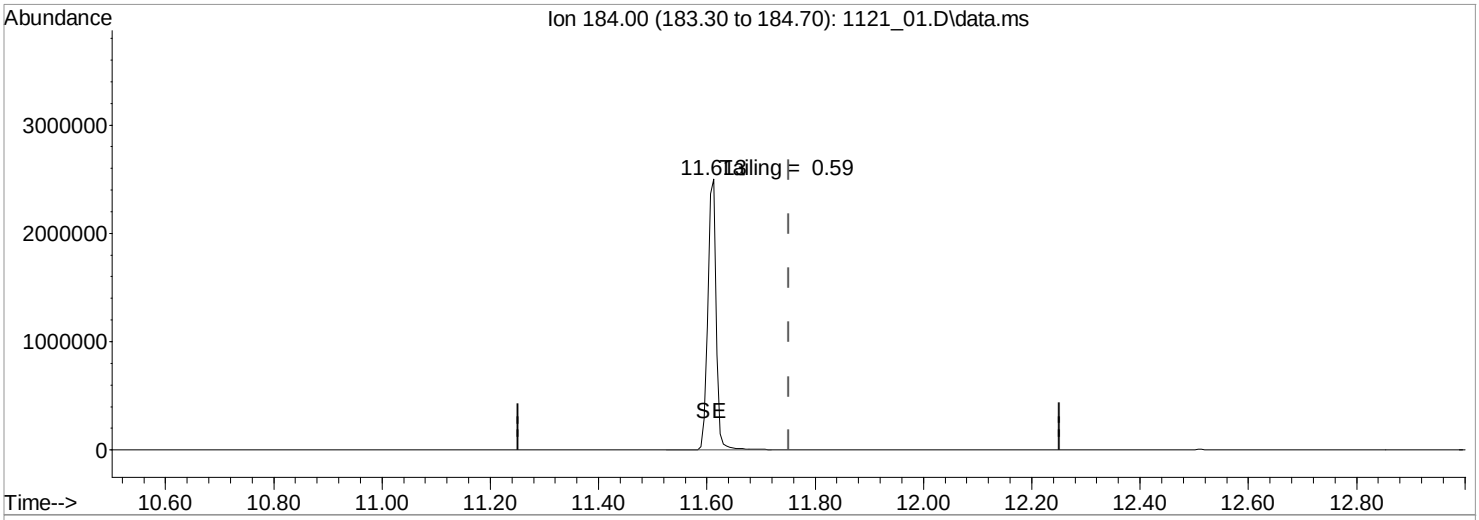
response 307855

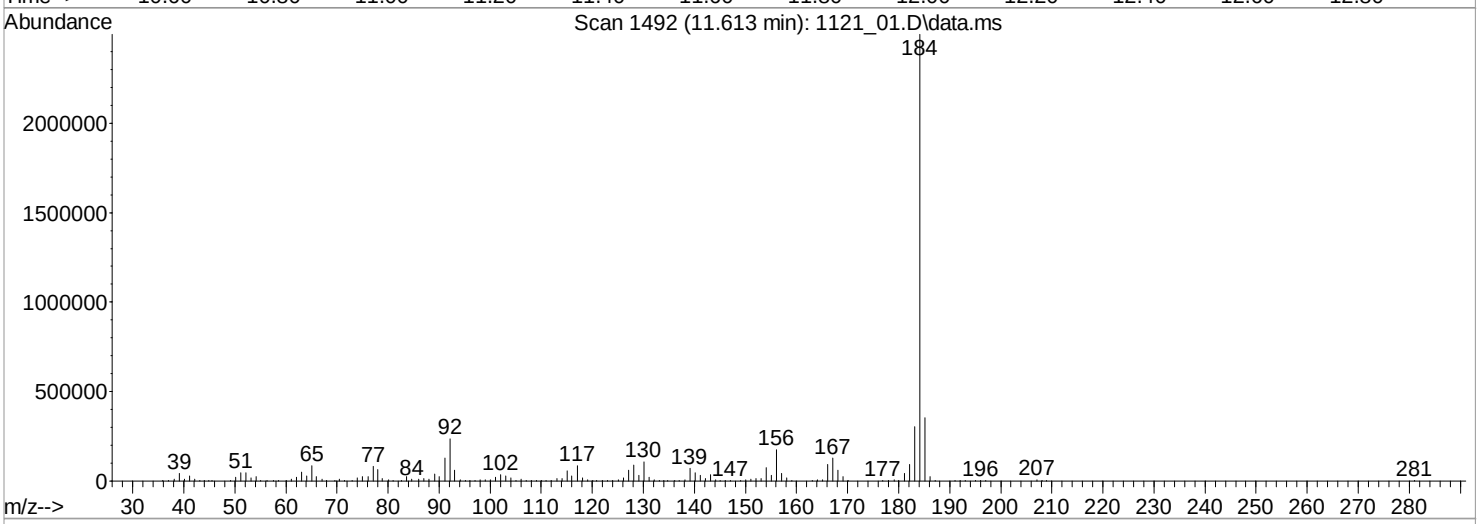
Ion	Exp%	Act%
264.00	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\112114\
Data File : 1121 01.D
Acq On : 21 Nov 2014 3:45 pm
Operator : 377
Sample : TUNE SVMS 50 PPM 14K19964
Misc : DFTPP TUNE
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 21 16:07:11 2014
Quant Method : C:\msdchem\1\methods\TUNEC.M
Quant Title : 8270 BNA
QLast Update : Tue May 21 10:58:22 2013
Response via : Initial Calibration





TIC: 1121_01.D\data.ms

(3) Benzidine (MT)

11.613min (-0.138) 112.2827857 ug/mL

Qvalue = 100

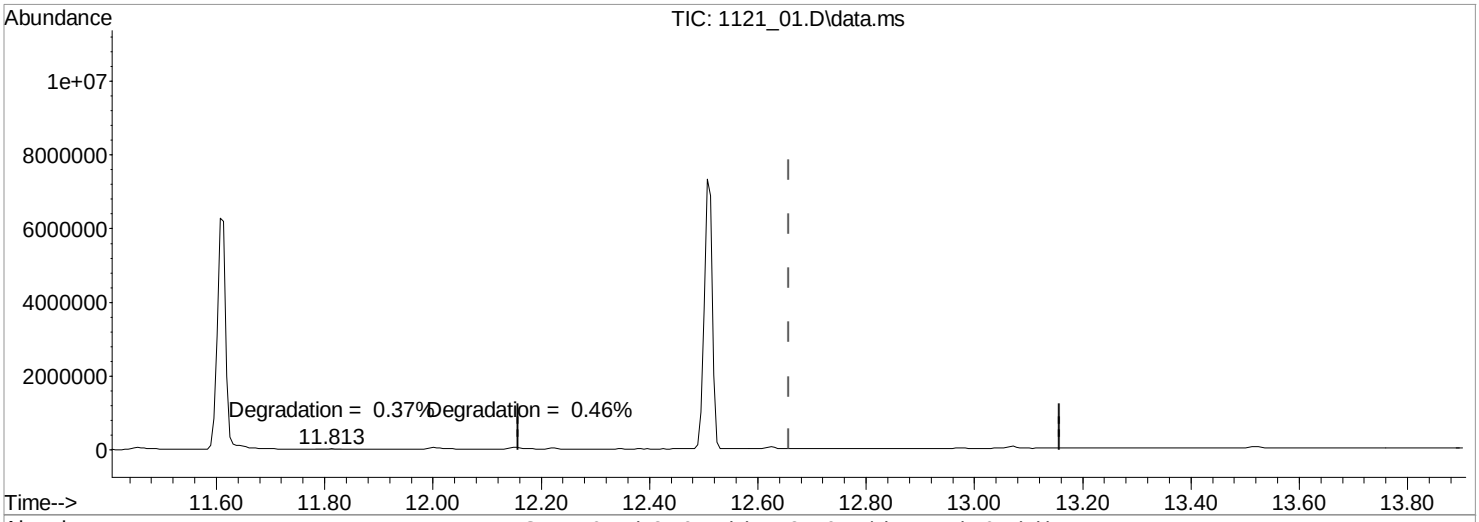
response 2694971

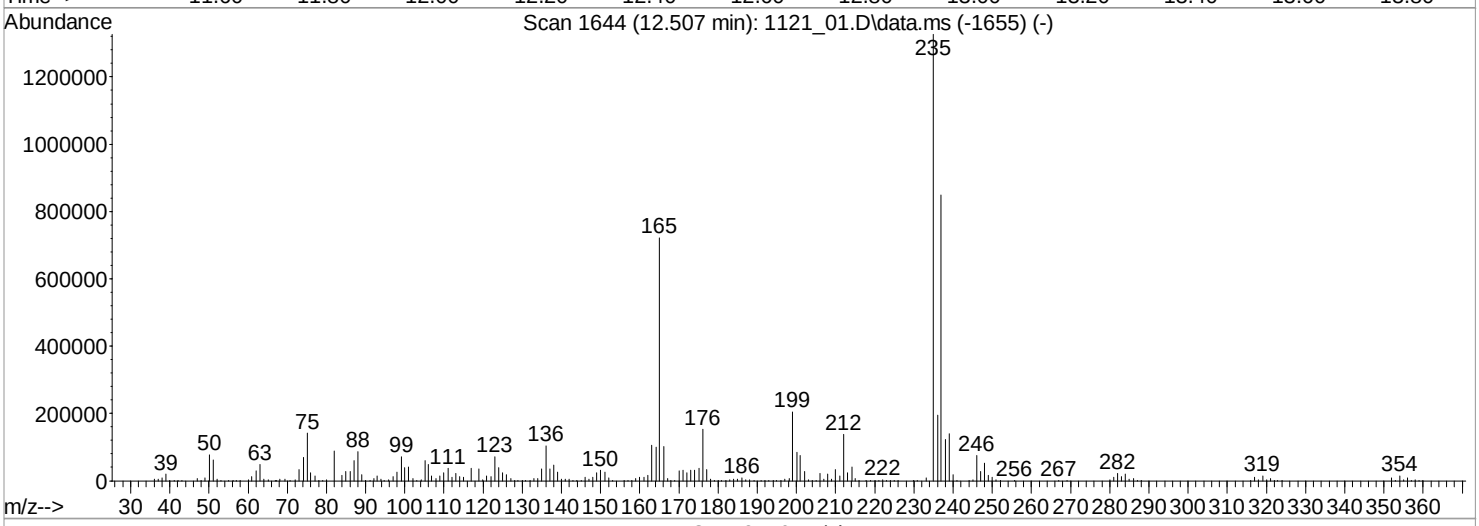
Ion	Exp%	Act%
184.00	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\112114\
Data File : 1121 01.D
Acq On : 21 Nov 2014 3:45 pm
Operator : 377
Sample : TUNE SVMS 50 PPM 14K19964
Misc : DFTPP TUNE
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 21 16:07:11 2014
Quant Method : C:\msdchem\1\methods\TUNEC.M
Quant Title : 8270 BNA
QLast Update : Tue May 21 10:58:22 2013
Response via : Initial Calibration





TIC: 1121_01.D\data.ms

(4) DDT (MT)

12.507min (-0.150) 558.4044405 ug/ml

Qvalue = 100

response 7514013

Signal	Exp%	Act%
TIC	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Mint Miner (UNREGISTERED DEMO) Directory Scan: y:\112014A

22 Nov 2014 19:20

Level	Status	Code	Operator	Instrument	Sample ID
Scan File Path: y:\112014A\1120a_00.D					
Original Path: C:\msdchem\1\data\112014A\1120a_00.D\data.ms					
0	Scanned		377	BNAMS19	INSTBLK (INSTRUMENT BLANK)
Scan File Path: y:\112014A\1120a_01.D					
Original Path: 1120a_01.D					
20	Scanned	TF(2)	377	BNAMS19	TUNE SVMS 50 PPM 14K19964 (DFTPP TUNE
Scan File Path: y:\112014A\1120a_02.D					
Original Path: 1120a_02.D					
5	Scanned	TA(1)	377	BNAMS19	TUNE SVMS 50 PPM 14K19964 (DFTPP TUNE
Scan File Path: y:\112014A\1120a_03.D					
Original Path: C:\msdchem\1\data\112014A\1120a_03.D\data.ms					
15	Scanned	D(14), M(1)	377	BNAMS19	MSTD SVMS 10K PPB 14K07412 (8270 PRIM/
Scan File Path: y:\112014A\1120a_04.D					
Original Path: C:\msdchem\1\data\112014A\1120a_04.D\data.ms					
37	Scanned	D(3), M(5), MR(3), MC(2), MK(1), MS(1), MB(2)	377	BNAMS19	STD SVMS 200 PPB 14K07412 (8270 PRIMAR
Scan File Path: y:\112014A\1120a_04MRL.D					
Original Path: C:\msdchem\1\data\112014A\1120a_04MRL.D\data.ms					
195	Scanned	D(13), M(17), MR(11), MC(7), MK(3), MS(3), MB(7), QM(2), MT(10), MM(2)	377	BNAMS19	MRL SVMS 200 PPB 14K07412 (8270 PRIMAR
Scan File Path: y:\112014A\1120a_05.D					
Original Path: C:\msdchem\1\data\112014A\1120a_05.D\data.ms					
66	Scanned	D(3), MS(1), M(9), MR(8), MB(5), MC(2)	377	BNAMS19	STD SVMS 1K PPB 14K07412 (8270 PRIMARY
Scan File Path: y:\112014A\1120a_06.D					
Original Path: C:\msdchem\1\data\112014A\1120a_06.D\data.ms					
37	Scanned	D(4), MS(1), M(5), MR(4), MB(2), MC(1)	377	BNAMS19	STD SVMS 2K PPB 14K07412 (8270 PRIMARY
Scan File Path: y:\112014A\1120a_06MRL.D					
Original Path: C:\msdchem\1\data\112014A\1120a_06MRL.D\data.ms					
63	Scanned	D(10), MS(2), M(7), MR(5), MB(2), MC(1), MT(2)	377	BNAMS19	MRL SVMS 2K PPB 14K07412 (8270 PRIMAR
Scan File Path: y:\112014A\1120a_07.D					
Original Path: C:\msdchem\1\data\112014A\1120a_07.D\data.ms					
15	Scanned	D(5), MS(1), M(2), MR(1)	377	BNAMS19	STD SVMS 5K PPB 14K07412 (8270 PRIMARY

Level	Status	Code	Operator	Instrument	Sample ID
Scan File Path: y:\112014A\1120a_08.D					
Original Path: C:\msdchem\1\data\112014A\1120a_08.D\data.ms					
7	Scanned	D(6), M(1)	377	BNAMS19	STD SVMS 20K PPB 14K07412 (8270 PRIMAR
Scan File Path: y:\112014A\1120a_09.D					
Original Path: C:\msdchem\1\data\112014A\1120a_09.D\data.ms					
12	Scanned	D(6), MR(1), M(1)	377	BNAMS19	STD SVMS 30K PPB 14K07412 (8270 PRIMAR
Scan File Path: y:\112014A\1120a_10.D					
Original Path: C:\msdchem\1\data\112014A\1120a_10.D\data.ms					
7	Scanned	D(6), M(1)	377	BNAMS19	STD SVMS 40K PPB 14K07412 (8270 PRIMAR
Scan File Path: y:\112014A\1120a_11.D					
Original Path: C:\msdchem\1\data\112014A\1120a_11.D\data.ms					
7	Scanned	D(6), M(1)	377	BNAMS19	STD SVMS 50K PPB 14K07412 (8270 PRIMAR
Scan File Path: y:\112014A\1120a_12.D					
Original Path: C:\msdchem\1\data\112014A\1120a_12.D\data.ms					
136	Scanned	DC(10), D(62), DB(10), DK(8), DP(2), DS(2), M(2)	377	BNAMS19	MSTD TCL 10K1 PPB 14G21532 (8270 TCL CA
Scan File Path: y:\112014A\1120a_13.D					
Original Path: C:\msdchem\1\data\112014A\1120a_13.D\data.ms					
58	Scanned	D(24), DC(3), DB(5), DK(3), DP(2), DS(1)	377	BNAMS19	STD TCL .2K1 PPB 14G21532 (8270 TCL CALI
Scan File Path: y:\112014A\1120a_14.D					
Original Path: C:\msdchem\1\data\112014A\1120a_14.D\data.ms					
48	Scanned	DC(3), D(18), DB(5), DK(1), DS(1)	377	BNAMS19	STD TCL 1K1 PPB 14G21532 (8270 TCL CALI
Scan File Path: y:\112014A\1120a_15.D					
Original Path: C:\msdchem\1\data\112014A\1120a_15.D\data.ms					
43	Scanned	DC(3), D(17), DB(4), DK(2), DS(1)	377	BNAMS19	STD TCL 2K1 PPB 14G21532 (8270 TCL CALI
Scan File Path: y:\112014A\1120a_15MRL.D					
Original Path: C:\msdchem\1\data\112014A\1120a_15MRL.D\data.ms					
86	Scanned	DC(6), D(34), DB(8), DK(4), DS(2)	377	BNAMS19	MRL TCL 2K1 PPB 14G21532 (8270 TCL CALI
Scan File Path: y:\112014A\1120a_16.D					
Original Path: C:\msdchem\1\data\112014A\1120a_16.D\data.ms					
45	Scanned	DC(3), D(19), DB(4), DK(2), DS(1)	377	BNAMS19	STD TCL 5K1 PPB 14G21532 (8270 TCL CALI

Level	Status	Code	Operator	Instrument	Sample ID
Scan File Path: y:\112014A\1120a_17.D					
Original Path: C:\msdchem\1\data\112014A\1120a_17.D\data.ms					
65	Scanned	DC(5), D(30), DB(5), DK(3), DS(2)	377	BNAMS19	STD TCL 20K1 PPB 14G21532 (8270 TCL CAL
Scan File Path: y:\112014A\1120a_18.D					
Original Path: C:\msdchem\1\data\112014A\1120a_18.D\data.ms					
72	Scanned	D(35), DC(5), DB(5), DK(4), DS(2), M(1)	377	BNAMS19	STD TCL 30K1 PPB 14G21532 (8270 TCL CAL
Scan File Path: y:\112014A\1120a_19.D					
Original Path: C:\msdchem\1\data\112014A\1120a_19.D\data.ms					
86	Scanned	D(45), DC(6), DB(5), DS(3), DK(5), DP(1), M(1)	377	BNAMS19	STD TCL 40K1 PPB 14G21532 (8270 TCL CAL
Scan File Path: y:\112014A\1120a_20.D					
Original Path: C:\msdchem\1\data\112014A\1120a_20.D\data.ms					
89	Scanned	D(45), DC(6), DB(6), DS(3), DK(4), M(1)	377	BNAMS19	STD TCL 50K1 PPB 14G21532 (8270 TCL CAL
Scan File Path: y:\112014A\1120a_21.D					
Original Path: C:\msdchem\1\data\112014A\1120a_21.D\data.ms					
3	Scanned	M(1), QM(1)	377	BNAMS19	SSCV SVMS 10K PPB 14I30242 (8270 SSCV)
Scan File Path: y:\112014A\1120a_22.D					
Original Path: C:\msdchem\1\data\112014A\1120a_22.D\data.ms					
0	Scanned		377	BNAMS19	MRL SVMS 500 PPB 14K07412 (8270 PRIMAF

D	=	Deletion of any analyte	DB	=	Deletion of a common contaminant
DC	=	Deletion of a CCC	DK	=	Deletion of a spike compound
DP	=	Deletion of an SPCC	DS	=	Deletion of a surrogate
M	=	Manual integration (non-specific)	MB	=	Manual integration of a common contaminant
MC	=	Manual integration of a CCC	MK	=	Manual integration of a spike compound
MM	=	More than 3 manual integrations of the same analyte	MR	=	Manual integration with before/after ratio <10%
MS	=	Manual integration of a surrogate	MT	=	Multiple manual integrations of the same analyte >10 minutes apart
QM	=	Processed >3 times using the same method	TA	=	Tune spectrum obtained by spectral averaging
TF	=	Tune failed acceptance criteria			

ScanSummary.rpt

Total Files Scanned	26	Beginning Analyzed Date	11/20/2014 6:02:00PM
Methods	0	Ending Analyzed Date	11/21/2014 2:51:00AM
Samples	25	Analyzed Range	8 hours, 49 minutes
Tunes	1	Greatest Time Between Tunes	N/A
CCCs	0	Greatest Time Between CCCs	N/A

Distinct Method Last Updated count 0

Operators 1 Intruments 1

Instrument: BNAMS11
Method: S811K12AN

Initial Calibration Run Log

File ID	Level ID	Date Analyzed
1112_05.D	200	11/12/2014 12:03:00 PM
1112_06.D	1000	11/12/2014 12:24:00 PM
1112_07.D	2000	11/12/2014 12:45:00 PM
1112_08.D	5000	11/12/2014 1:06:00 PM
1112_04.D	10000	11/12/2014 11:42:00 AM
1112_09.D	20000	11/12/2014 1:28:00 PM
1112_10.D	30000	11/12/2014 1:49:00 PM
1112_11.D	40000	11/12/2014 2:10:00 PM
1112_12.D	50000	11/12/2014 2:31:00 PM
1112_14.D	.2K1	11/12/2014 3:14:00 PM
1112_15.D	1K1	11/12/2014 3:35:00 PM
1112_16.D	2K1	11/12/2014 3:56:00 PM
1112_17.D	5K1	11/12/2014 4:18:00 PM
1112_13.D	10K1	11/12/2014 2:53:00 PM
1112_18.D	20K1	11/12/2014 4:39:00 PM
1112_19.D	30K1	11/12/2014 5:01:00 PM
1112_20.D	40K1	11/12/2014 5:22:00 PM
1112_21.D	50K1	11/12/2014 5:43:00 PM

Environmental Science Corporation
12065 Lebanon Rd., Mt. Juliet, TN 37122

Injection Log

Instrument ID : BNAMS11
Computer Name : SVCOMPAC

Released By : Allen Fuller
Date Released : 11/13/2014 3:48:35 PM

Run ID : 111214
Signature : _____

#	File ID	Sample ID	Method	WG	Product	Matrix	Account #	State	Dil.	Mult.	Injected	Misc.
1	1112_01	PRIME	S811K12N						1	1	11/12/14 0835	"prime"
2	1112_02	INSTBLK	S811K12N						1	1	11/12/14 0937	"instrument blank"
3	1112_03	TUNE 50 PPM 14F19703	TUNEC							1	11/12/14 1012	
4	1112_04	MSTD SVMS 10K PPB 14K07412	S811K12N						1	1	11/12/14 1142	"8270 Primary Calibration"
5	1112_04 MRL	MRL SVMS 10K PPB 14K07412	S811K12AN						1	1	11/12/14 1142	"8270 Primary Calibration"
6	1112_05	STD SVMS 200 PPB 14K07412	S811K12N						1	1	11/12/14 1203	"8270 Primary Calibration"
7	1112_05 MRL	MRL SVMS 200 PPB 14K07412	S811K12AN						1	1	11/12/14 1203	"8270 Primary Calibration"
8	1112_06	STD SVMS 1K PPB 14K07412	S811K12N						1	1	11/12/14 1224	"8270 Primary Calibration"
9	1112_07	STD SVMS 2K PPB 14K07412	S811K12N						1	1	11/12/14 1245	"8270 Primary Calibration"
10	1112_07 MRL	MRL SVMS 2K PPB 14K07412	S811K12AN						1	1	11/12/14 1245	"8270 Primary Calibration"
11	1112_08	STD SVMS 5K PPB 14K07412	S811K12N						1	1	11/12/14 1306	"8270 Primary Calibration"
12	1112_09	STD SVMS 20K PPB 14K07412	S811K12N						1	1	11/12/14 1328	"8270 Primary Calibration"
13	1112_10	STD SVMS 30K PPB 14K07412	S811K12N						1	1	11/12/14 1349	"8270 Primary Calibration"
14	1112_11	STD SVMS 40K PPB 14K07412	S811K12N						1	1	11/12/14 1410	"8270 Primary Calibration"

Environmental Science Corporation
12065 Lebanon Rd., Mt. Juliet, TN 37122

Injection Log

Instrument ID : BNAMS11
Computer Name : SVCOMPAC
Released By : Allen Fuller
Date Released : 11/13/2014 3:48:35 PM
Run ID : 111214
Signature : _____

#	File ID	Sample ID	Method	WG	Product	Matrix	Account #	State	Dil.	Mult.	Injected	Misc.
15	1112_12	STD SVMS 50K PPB 14K07412	S811K12N						1	1	11/12/14 1431	"8270 Primary Calibration"
16	1112_13	MSTD TCL 10K1 PPB 14G21532	S811K12N						1	1	11/12/14 1453	"8270 Primary Calibration"
17	1112_14	STD TCL .2K1 PPB 14G21532	S811K12N						1	1	11/12/14 1514	"8270 TCL Calibration"
18	1112_15	STD TCL 1K1 PPB 14G21532	S811K12N						1	1	11/12/14 1535	"8270 TCL Calibration"
19	1112_16	STD TCL 2K1 PPB 14G21532	S811K12N						1	1	11/12/14 1556	"8270 TCL Calibration"
20	1112_16 MRL	MRL TCL 2K1 PPB 14G21532	S811K12AN						1	1	11/12/14 1556	"8270 TCL Calibration"
21	1112_17	STD TCL 5K1 PPB 14G21532	S811K12N						1	1	11/12/14 1618	"8270 TCL Calibration"
22	1112_18	STD TCL 20K1 PPB 14G21532	S811K12N						1	1	11/12/14 1639	"8270 TCL Calibration"
23	1112_19	STD TCL 30K1 PPB 14G21532	S811K12N						1	1	11/12/14 1701	"8270 TCL Calibration"
24	1112_20	STD TCL 40K1 PPB 14G21532	S811K12N						1	1	11/12/14 1722	"8270 TCL Calibration"
25	1112_21	STD TCL 50K1 PPB 14G21532	S811K12N						1	1	11/12/14 1743	"8270 TCL Calibration"
26	1112_22	SSCV SVMS 10K PPB 14I30242	S811K12AN						1	1	11/12/14 1804	"8270 sscv"
27	1112_23	DNR MRL SVMS 500 PPB 14K07412	S811K12N						1	1	11/12/14 1825	"8270 Primary Calibration MRL"
28	1112_24	INSTBLK	S811K12AN						1	1	11/12/14 1847	"instrument blank"

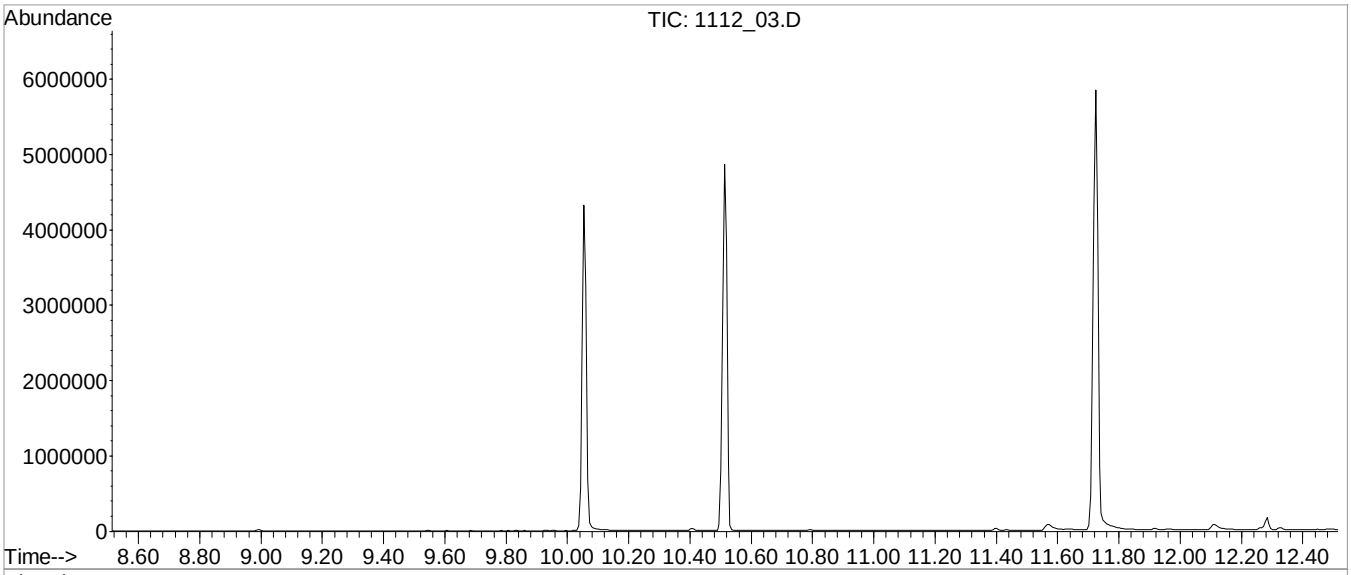
Environmental Science Corporation
12065 Lebanon Rd., Mt. Juliet, TN 37122

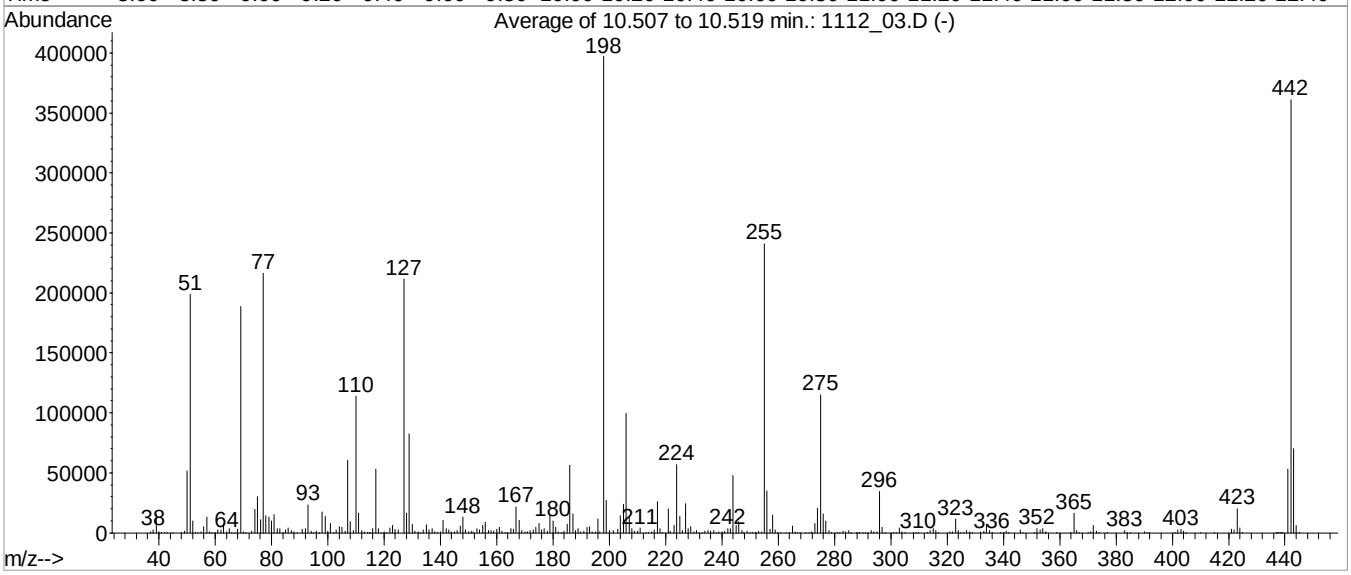
Injection Log

Instrument ID : BNAMS11
Computer Name : SVCOMPAC
Released By : Allen Fuller
Date Released : 11/13/2014 3:48:35 PM
Run ID : 111214
Signature : _____

#	File ID	Sample ID	Method	WG	Product	Matrix	Account #	State	Dil.	Mult.	Injected	Misc.
29	1112_31	TUNE 50 PPM 14F19703								1	11/12/14 2154	
30	1112_69	INSTBLK	S811K12AN						1	1	11/13/14 1122	"instrument blank"

Data File : C:\MSDCHEM\1\DATA\111214\1112 03.D Vial: 1
Acq On : 12 Nov 2014 10:12 am Operator: 280
Sample : TUNE 50 PPM 14F19703 Inst : BNAMS11
Misc : DFTPP Multiplr: 1.00
MS Integration Params: RTEINT.P
Method : C:\MSDCHEM\1\METHODS\TUNED.M (RTE Integrator)
Title : 8270 BNA

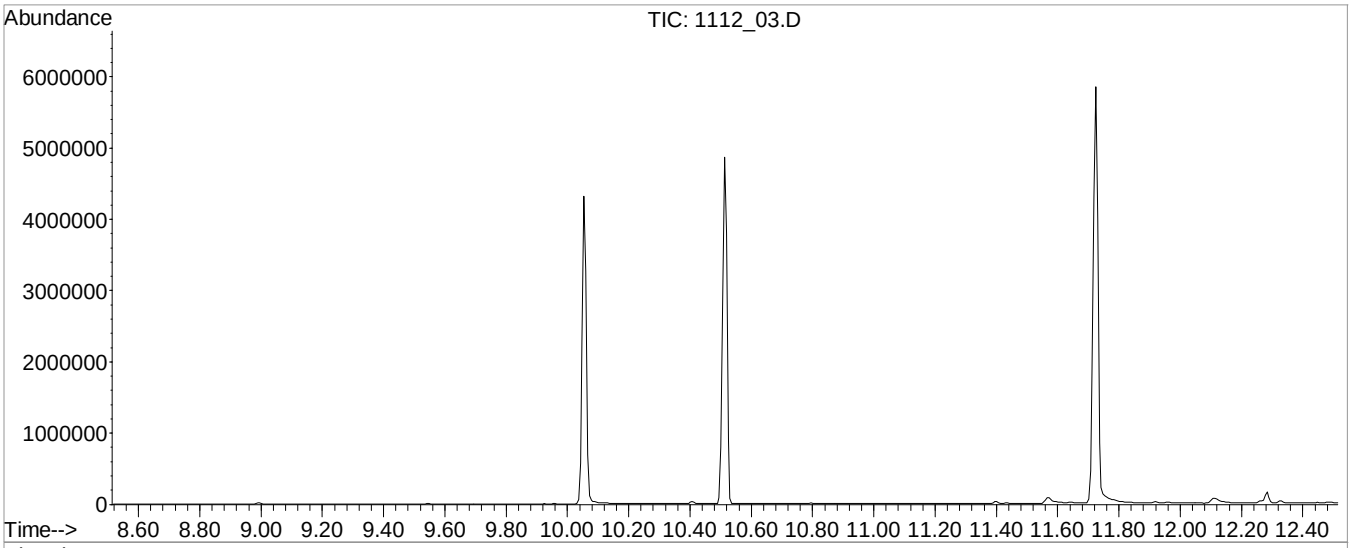


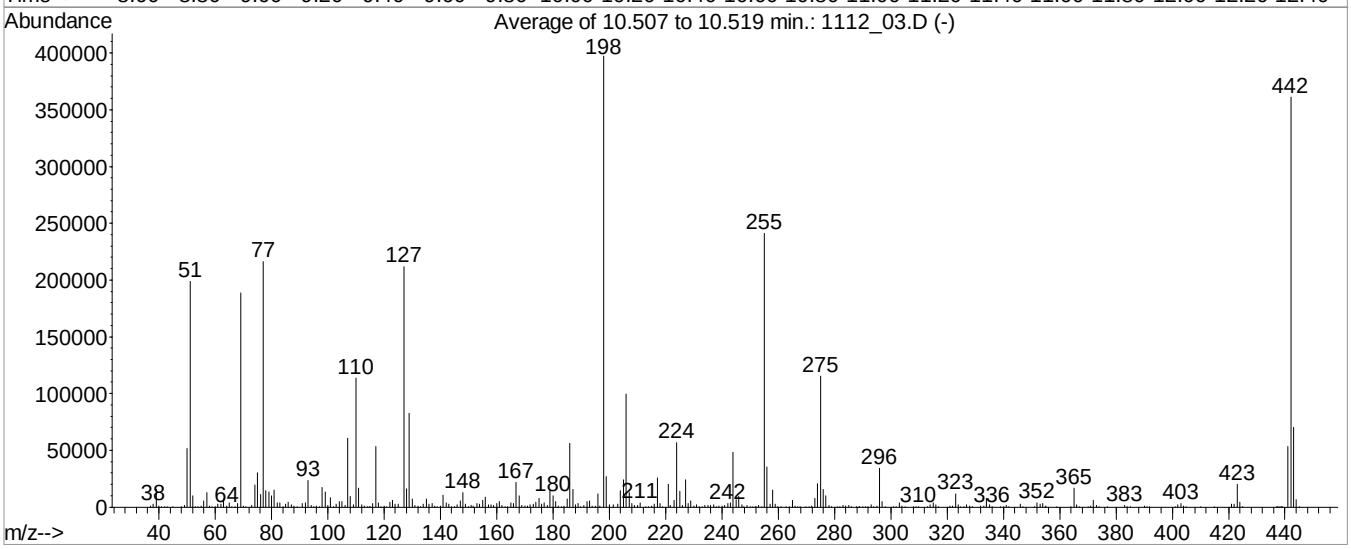


Spectrum Information: Average of 10.507 to 10.519 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	10	80	50.0	198677	PASS
68	69	0.00	2	1.6	3098	PASS
70	69	0.00	2	0.4	754	PASS
127	198	10	80	53.2	211520	PASS
197	198	0.00	2	0.2	611	PASS
198	198	50	100	100.0	397418	PASS
199	198	5	9	6.8	26885	PASS
275	198	10	60	29.0	115245	PASS
365	198	1	100	4.1	16402	PASS
441	442	0.01	24	14.8	53386	PASS
442	198	50	100	90.8	360960	PASS
443	442	15	24	19.4	70192	PASS

Data File : C:\MSDCHEM\1\DATA\111214\1112 03.D Vial: 1
Acq On : 12 Nov 2014 10:12 am Operator: 280
Sample : TUNE 50 PPM 14F19703 Inst : BNAMS11
Misc : DFTPP Multiplr: 1.00
MS Integration Params: RTEINT.P
Method : C:\MSDCHEM\1\METHODS\TUNEC.M (RTE Integrator)
Title : 8270 BNA





Spectrum Information: Average of 10.507 to 10.519 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	50.0	198677	PASS
68	69	0.00	2	1.6	3098	PASS
69	198	0.00	100	47.5	188656	PASS
70	69	0.00	2	0.4	754	PASS
127	198	40	60	53.2	211520	PASS
197	198	0.00	1	0.2	611	PASS
198	198	100	100	100.0	397418	PASS
199	198	5	9	6.8	26885	PASS
275	198	10	30	29.0	115245	PASS
365	198	1	100	4.1	16402	PASS
441	443	0.01	100	76.1	53386	PASS
442	198	40	100	90.8	360960	PASS
443	442	17	23	19.4	70192	PASS

Environmental Science Corporation
12065 Lebanon Rd., Mt. Juliet, TN 37122

INITIAL CALIBRATION SUMMARY

Instrument ID	: BNAMS11	Review Method	: 8270D	Released By	: Allen Fuller
Method	: S811K12AN	Review Protocol	: SW846	Released On	: 11/13/2014 3:48:35 PM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- S811K12AN -- ICal Updated Time: Thu Nov 13 14:05:28 2014

Parameter	200	1000	2000	5000	10000	20000	30000	40000	50000	.2K1	1K1	2K1	5K1	10K1	20K1	30K1	40K1	50K1	AvgRF	%RSD	COD	Cur	RF
1,4-Dichlorobenzene-d4																							
Pyridine	2.306	2.28	2.249	2.179	2.126	2.175	2.181	2.104	2.126										2.19177	3.26	0.033	1	
N-Nitrosodimethylamine	1.4	1.322	1.257	1.285	1.178	1.295	1.261	1.215	1.24										1.272504	5.05	0.051	1	
2-Fluorophenol	1.517	1.465	1.431	1.393	1.396	1.42	1.425	1.364	1.391										1.422413	3.22	0.032	1	
Aniline	1.104	1.107	1.059	1.055	0.982	1.033	1.017	0.957	0.97										1.031546	5.35	0.054	1	
bis(2-Chloroethyl)ether	1.521	1.479	1.421	1.394	1.314	1.365	1.321	1.239	1.237										1.365588	7.23	0.072	1	0.7
Phenol-d5	2.044	2.008	2.01	1.936	1.92	1.946	1.941	1.852	1.868										1.947317	3.31	0.033	1	
Phenol	2.2	2.084	2.075	2.005	1.942	1.952	1.968	1.839	1.826										1.987559	6.01	0.06	1	0.8
Benzaldehyde										0.835	0.75	0.751	0.758	0.73	0.766	0.798	0.793	0.757	0.770934	4.17	0.042	1	0.01
2-Chlorophenol	1.663	1.627	1.578	1.567	1.527	1.523	1.507	1.43	1.402										1.535728	5.52	0.055	1	0.8
n-Decane	1.412	1.364	1.333	1.271	1.124	1.2	1.15	1.045	1.014										1.212632	11.64	0.116	1	
1,3-Dichlorobenzene	1.877	1.832	1.725	1.696	1.655	1.635	1.621	1.549	1.552										1.682589	6.77	0.068	1	
1,4-Dichlorobenzene	1.968	1.853	1.772	1.691	1.655	1.631	1.627	1.56	1.563										1.702318	8.07	0.081	1	
Benzyl Alcohol	1.601	1.557	1.534	1.517	1.431	1.495	1.475	1.441	1.422										1.497071	4.07	0.041	1	
1,2-Dichlorobenzene	1.788	1.8	1.679	1.634	1.577	1.586	1.555	1.508	1.488										1.624039	6.93	0.069	1	
bis(2-Chloroisopropyl)ether	0.571	0.545	0.527	0.514	0.491	0.489	0.486	0.468	0.472										0.506844	6.9	0.069	1	
2-Methylphenol	1.571	1.575	1.511	1.457	1.391	1.406	1.402	1.336	1.35										1.444454	6.22	0.062	1	0.7
Hexachloroethane	0.804	0.762	0.751	0.725	0.703	0.724	0.715	0.687	0.69										0.729103	5.16	0.052	1	0.3
N-Nitrosodi-n-propylamine	1.498	1.451	1.403	1.365	1.249	1.331	1.311	1.267	1.261										1.348406	6.52	0.065	1	0.5
3&4-Methyl phenol	1.711	1.759	1.718	1.682	1.611	1.639	1.639	1.599	1.596										1.661536	3.52	0.035	1	0.6
Acetophenone										2.387	2.309	2.281	2.33	2.175	2.21	2.191	2.115	2.05	2.227488	4.87	0.049	1	0.01
Naphthalene-d8																							

PDF Generated On: 11/13/2014 - By: Allen Fuller

Environmental Science Corporation
12065 Lebanon Rd., Mt. Juliet, TN 37122

INITIAL CALIBRATION SUMMARY

Instrument ID	: BNAMS11	Review Method	: 8270D	Released By	: Allen Fuller
Method	: S811K12AN	Review Protocol	: SW846	Released On	: 11/13/2014 3:48:35 PM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- S811K12AN -- ICal Updated Time: Thu Nov 13 14:05:28 2014

Parameter	200	1000	2000	5000	10000	20000	30000	40000	50000	.2K1	1K1	2K1	5K1	10K1	20K1	30K1	40K1	50K1	AvgRF	%RSD	COD	Cur	RF
Nitrobenzene-d5	0.46	0.432	0.431	0.432	0.437	0.433	0.424	0.413	0.414										0.430599	3.21	0.032	1	
Nitrobenzene	0.489	0.462	0.453	0.443	0.44	0.432	0.422	0.407	0.402										0.438851	6.19	0.062	1	0.2
Isophorone	0.844	0.785	0.781	0.767	0.762	0.737	0.73	0.704	0.693										0.755814	6.12	0.061	1	0.4
2-Nitrophenol	0.158	0.161	0.166	0.171	0.191	0.181	0.187	0.185	0.186										0.176322	6.99	0.07	1	0.1
2,4-Dimethylphenol	0.413	0.412	0.401	0.393	0.384	0.363	0.356	0.344	0.337										0.377973	7.66	0.077	1	0.2
bis(2-Chlorethoxy)methane	0.535	0.516	0.488	0.475	0.475	0.455	0.446	0.431	0.425										0.471885	7.88	0.079	1	0.3
2,4-Dichlorophenol	0.313	0.299	0.293	0.288	0.294	0.281	0.28	0.281	0.277										0.289661	4.01	0.04	1	0.2
Benzoic Acid										0.037	0.102	0.134	0.179	0.218	0.24	0.256	0.268	0.279	0.190341	44.04	1	3	
1,2,4-Trichlorobenzene	0.376	0.347	0.335	0.326	0.328	0.307	0.306	0.3	0.297										0.324706	7.88	0.079	1	
Naphthalene	1.575	1.276	1.2	1.133	1.13	1.079	1.061	1.017	1.004										1.163959	15.19	0.152	1	0.7
4-Chloroaniline	0.191	0.18	0.177	0.165	0.161	0.163	0.161	0.156	0.156										0.167872	7.22	0.072	1	0.01
Hexachloro-1,3-butadiene	0.206	0.209	0.184	0.187	0.186	0.176	0.176	0.173	0.168										0.185118	7.63	0.076	1	0.01
Caprolactam										0.09	0.1	0.099	0.105	0.107	0.108	0.108	0.11	0.112	0.104482	6.66	0.067	1	0.01
4-Chloro-3-methylphenol	0.356	0.35	0.345	0.345	0.356	0.343	0.34	0.332	0.329										0.344089	2.71	0.027	1	0.2
2-Methylnaphthalene	0.9	0.838	0.819	0.792	0.78	0.744	0.727	0.706	0.689										0.777265	8.79	0.088	1	0.4
1-Methylnaphthalene	0.808	0.787	0.764	0.729	0.736	0.683	0.673	0.65	0.639										0.718742	8.44	0.084	1	
1,2,4,5-Tetrachlorobenzene										0.321	0.336	0.324	0.321	0.318	0.316	0.311	0.309	0.307	0.318047	2.79	0.028	1	0.01
Acenaphthene-d10																							
Hexachlorocyclopentadiene	0.32	0.323	0.311	0.325	0.337	0.33	0.332	0.343	0.335										0.328452	2.92	0.029	1	0.05
2,4,6-Trichlorophenol	0.312	0.321	0.327	0.333	0.342	0.338	0.333	0.34	0.33										0.330986	2.9	0.029	1	0.2
2,4,5-Trichlorophenol	0.359	0.369	0.364	0.374	0.377	0.361	0.36	0.35	0.343										0.361817	2.93	0.029	1	0.2
2-Fluorobiphenyl	1.471	1.457	1.36	1.35	1.303	1.242	1.209	1.169	1.149										1.300981	9.08	0.091	1	

PDF Generated On: 11/13/2014 -- By: Allen Fuller

Environmental Science Corporation
12065 Lebanon Rd., Mt. Juliet, TN 37122

INITIAL CALIBRATION SUMMARY

Instrument ID	: BNAMS11	Review Method	: 8270D	Released By	: Allen Fuller
Method	: S811K12AN	Review Protocol	: SW846	Released On	: 11/13/2014 3:48:35 PM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- S811K12AN -- ICal Updated Time: Thu Nov 13 14:05:28 2014

Parameter	200	1000	2000	5000	10000	20000	30000	40000	50000	.2K1	1K1	2K1	5K1	10K1	20K1	30K1	40K1	50K1	AvgRF	%RSD	COD	Cur	RF
Biphenyl	1.662	1.661	1.575	1.538	1.491	1.427	1.377	1.347	1.293										1.485739	9.04	0.09	1	0.01
2-Chloronaphthalene	1.337	1.287	1.205	1.191	1.161	1.099	1.071	1.043	1.013										1.15629	9.54	0.095	1	0.8
2-Nitroaniline	0.322	0.331	0.347	0.37	0.386	0.385	0.392	0.395	0.393										0.36912	7.69	0.077	1	0.01
Acenaphthylene	1.967	1.986	1.876	1.861	1.813	1.736	1.697	1.638	1.588										1.795694	7.83	0.078	1	0.9
Dimethyl phthalate	1.41	1.349	1.258	1.243	1.212	1.233	1.225	1.217	1.189										1.259597	5.74	0.057	1	0.01
2,6-Dinitrotoluene	0.252	0.261	0.269	0.284	0.289	0.29	0.293	0.295	0.291										0.280435	5.6	0.056	1	0.2
3-Nitroaniline	0.303	0.329	0.323	0.335	0.347	0.349	0.348	0.344	0.341										0.335185	4.48	0.045	1	0.01
Acenaphthene	1.377	1.351	1.279	1.243	1.189	1.146	1.107	1.068	1.038										1.199784	10.09	0.101	1	0.9
2,4-Dinitrophenol			0.078	0.098	0.124	0.139	0.151	0.159	0.16										0.129984	24.44	0.998	0	0.01
Dibenzofuran	1.865	1.829	1.739	1.66	1.59	1.517	1.5	1.46	1.441										1.622564	9.82	0.098	1	0.8
2,4-Dinitrotoluene	0.278	0.322	0.331	0.357	0.392	0.401	0.407	0.409	0.403										0.366648	12.86	0.129	1	0.2
2,3,4,6-Tetrachlorophenol										0.21	0.241	0.241	0.249	0.262	0.262	0.254	0.264	0.263	0.249637	6.96	0.07	1	0.01
4-Nitrophenol	0.187	0.218	0.229	0.256	0.277	0.278	0.286	0.285	0.285										0.255623	14.12	0.141	1	0.01
Fluorene	1.515	1.528	1.454	1.4	1.322	1.277	1.267	1.219	1.189										1.352334	9.37	0.094	1	0.9
4-Chlorophenyl-phenylether	0.669	0.695	0.663	0.636	0.613	0.598	0.605	0.6	0.593										0.630241	5.91	0.059	1	0.4
Diethyl phthalate	1.463	1.421	1.352	1.369	1.385	1.363	1.33	1.307	1.257										1.360823	4.47	0.045	1	0.01
4-Nitroaniline	0.293	0.327	0.33	0.305	0.302	0.31	0.313	0.323	0.321										0.313738	3.98	0.04	1	0.01
Azobenzene	1.698	1.739	1.671	1.647	1.614	1.629	1.638	1.585	1.577										1.644249	3.17	0.032	1	
Atrazine										0.31	0.346	0.348	0.357	0.368	0.376	0.371	0.371	0.353	0.355527	5.69	0.057	1	0.01
Phenanthrene-d10																							
4,6-Dinitro-2-methylphenol	0.054	0.062	0.071	0.087	0.107	0.108	0.115	0.121	0.123										0.094259	27.96	0.998	0	0.01
N-Nitrosodiphenylamine	0.715	0.686	0.67	0.636	0.63	0.611	0.602	0.586	0.582										0.635308	7.28	0.073	1	0.01

PDF Generated On: 11/13/2014 -- By: Allen Fuller

Environmental Science Corporation
12065 Lebanon Rd., Mt. Juliet, TN 37122

INITIAL CALIBRATION SUMMARY

Instrument ID	: BNAMS11	Review Method	: 8270D	Released By	: Allen Fuller
Method	: S811K12AN	Review Protocol	: SW846	Released On	: 11/13/2014 3:48:35 PM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- S811K12AN -- ICal Updated Time: Thu Nov 13 14:05:28 2014

Parameter	200	1000	2000	5000	10000	20000	30000	40000	50000	.2K1	1K1	2K1	5K1	10K1	20K1	30K1	40K1	50K1	AvgRF	%RSD	COD	Cur	RF
2,4,6-Tribromophenol	0.114	0.112	0.11	0.112	0.117	0.119	0.125	0.127	0.13										0.118285	6.02	0.06	1	
4-Bromophenyl-phenylether	0.248	0.235	0.224	0.224	0.222	0.214	0.215	0.216	0.217										0.223838	5	0.05	1	0.1
Hexachlorobenzene	0.297	0.282	0.267	0.266	0.261	0.255	0.259	0.256	0.258										0.266837	5.28	0.053	1	0.1
n-octadecane	0.178	0.157	0.158	0.169	0.164	0.162	0.156	0.146	0.145										0.15946	6.55	0.065	1	
Pentachlorophenol	0.127	0.123	0.128	0.14	0.15	0.151	0.158	0.162	0.164										0.144763	10.97	0.11	1	0.05
Phenanthrene	1.362	1.279	1.239	1.195	1.161	1.07	1.041	1.005	0.98										1.147834	11.51	0.115	1	0.7
Anthracene	1.298	1.301	1.249	1.233	1.19	1.111	1.054	1.018	0.999										1.16115	10.23	0.102	1	0.7
Carbazole	1.303	1.253	1.214	1.189	1.135	1.025	1.005	0.973	0.96										1.117561	11.6	0.116	1	0.01
Di-n-butyl phthalate	1.619	1.617	1.553	1.592	1.547	1.442	1.401	1.301	1.265										1.481946	9.13	0.091	1	0.01
2-nitrodiphenylamine												0.216	0.258	0.321	0.301	0.315	0.306	0.306	0.28903	13.14	0.131	1	
Fluoranthene	1.589	1.558	1.497	1.491	1.421	1.32	1.273	1.205	1.153										1.389596	11.36	0.114	1	0.6
Chrysene-d12																							
Benzidine										0.245	0.348	0.385	0.52	0.597	0.643	0.645	0.625	0.614	0.513472	29.15	0.997	0	
Pyrene	1.273	1.288	1.247	1.235	1.213	1.151	1.126	1.074	1.053										1.184438	7.29	0.073	1	0.6
p-Terphenyl-d14	0.988	1	0.979	0.981	0.96	0.915	0.898	0.856	0.849										0.936152	6.22	0.062	1	
Benzylbutyl phthalate	0.599	0.58	0.581	0.603	0.631	0.631	0.623	0.603	0.593										0.605107	3.23	0.032	1	0.01
3,3-Dichlorobenzidine										0.391	0.457	0.469	0.482	0.477	0.485	0.483	0.47	0.454	0.463256	6.28	0.063	1	0.01
Benzo(a)anthracene	1.478	1.376	1.355	1.306	1.275	1.201	1.17	1.114	1.09										1.262697	10.25	0.102	1	0.8
Chrysene	1.311	1.28	1.236	1.199	1.168	1.089	1.047	0.998	0.963										1.143407	10.94	0.109	1	0.7
bis(2-Ethylhexyl)phthalate	1.059	0.896	0.874	0.907	0.945	0.914	0.891	0.844	0.819										0.905355	7.58	0.076	1	0.01
Di-n-octyl phthalate	1.597	1.558	1.538	1.581	1.667	1.593	1.53	1.425	1.385										1.541494	5.69	0.057	1	0.01
Perylene-d12																							

PDF Generated On: 11/13/2014 -- By: Allen Fuller

Environmental Science Corporation
12065 Lebanon Rd., Mt. Juliet, TN 37122

INITIAL CALIBRATION SUMMARY

Instrument ID	: BNAMS11	Review Method	: 8270D	Released By	: Allen Fuller
Method	: S811K12AN	Review Protocol	: SW846	Released On	: 11/13/2014 3:48:35 PM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- S811K12AN -- ICal Updated Time: Thu Nov 13 14:05:28 2014

Parameter	200	1000	2000	5000	10000	20000	30000	40000	50000	.2K1	1K1	2K1	5K1	10K1	20K1	30K1	40K1	50K1	AvgRF	%RSD	COD	Cur	RF
Benzo(b)fluoranthene	1.265	1.242	1.301	1.227	1.167	1.124	1.046	1.048	1.028										1.160948	8.96	0.09	1	0.7
Benzo(k)fluoranthene	1.202	1.185	1.114	1.148	1.138	0.992	0.978	0.842	0.781										1.042096	14.63	0.146	1	0.7
Benzo(a)pyrene	1.161	1.16	1.151	1.158	1.151	1.071	1.021	0.972	0.951										1.088356	7.98	0.08	1	0.7
Indeno(1,2,3-cd)pyrene	1.432	1.46	1.425	1.447	1.401	1.291	1.246	1.169	1.139										1.334522	9.4	0.094	1	0.5
Dibenz(a,h)anthracene	1.164	1.199	1.211	1.21	1.19	1.079	1.035	0.965	0.946										1.111043	9.64	0.096	1	0.4
Benzo(g,h,i)perylene	1.204	1.193	1.189	1.205	1.175	1.132	1.095	1.009	0.97										1.130195	7.8	0.078	1	0.5

PDF Generated On: 11/13/2014 - By: Allen Fuller

Environmental Science Corporation
12065 Lebanon Rd., Mt. Juliet, TN 37122

INITIAL CALIBRATION SUMMARY

Instrument ID	: BNAMS11	Review Method	: 625	Released By	: Allen Fuller
Method	: S811K12AN	Review Protocol	: EPA	Released On	: 11/13/2014 3:47:50 PM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- S811K12AN -- ICal Updated Time: Thu Nov 13 14:05:28 2014

Parameter	200	1000	2000	5000	10000	20000	30000	40000	50000	.2K1	1K1	2K1	5K1	10K1	20K1	30K1	40K1	50K1	AvgRF	%RSD	COD	Cur
1,4-Dichlorobenzene-d4																						
Pyridine	2.306	2.28	2.249	2.179	2.126	2.175	2.181	2.104	2.126										2.19177	3.26	0.033	1
N-Nitrosodimethylamine	1.4	1.322	1.257	1.285	1.178	1.295	1.261	1.215	1.24										1.272504	5.05	0.051	1
2-Fluorophenol	1.517	1.465	1.431	1.393	1.396	1.42	1.425	1.364	1.391										1.422413	3.22	0.032	1
Aniline	1.104	1.107	1.059	1.055	0.982	1.033	1.017	0.957	0.97										1.031546	5.35	0.054	1
bis(2-Chloroethyl)ether	1.521	1.479	1.421	1.394	1.314	1.365	1.321	1.239	1.237										1.365588	7.23	0.072	1
Phenol-d5	2.044	2.008	2.01	1.936	1.92	1.946	1.941	1.852	1.868										1.947317	3.31	0.033	1
Phenol	2.2	2.084	2.075	2.005	1.942	1.952	1.968	1.839	1.826										1.987559	6.01	0.06	1
Benzaldehyde										0.835	0.75	0.751	0.758	0.73	0.766	0.798	0.793	0.757	0.770934	4.17	0.042	1
2-Chlorophenol	1.663	1.627	1.578	1.567	1.527	1.523	1.507	1.43	1.402										1.535728	5.52	0.055	1
n-Decane	1.412	1.364	1.333	1.271	1.124	1.2	1.15	1.045	1.014										1.212632	11.64	0.116	1
1,3-Dichlorobenzene	1.877	1.832	1.725	1.696	1.655	1.635	1.621	1.549	1.552										1.682589	6.77	0.068	1
1,4-Dichlorobenzene	1.968	1.853	1.772	1.691	1.655	1.631	1.627	1.56	1.563										1.702318	8.07	0.081	1
Benzyl Alcohol	1.601	1.557	1.534	1.517	1.431	1.495	1.475	1.441	1.422										1.497071	4.07	0.041	1
1,2-Dichlorobenzene	1.788	1.8	1.679	1.634	1.577	1.586	1.555	1.508	1.488										1.624039	6.93	0.069	1
bis(2-Chloroisopropyl)ether	0.571	0.545	0.527	0.514	0.491	0.489	0.486	0.468	0.472										0.506844	6.9	0.069	1
2-Methylphenol	1.571	1.575	1.511	1.457	1.391	1.406	1.402	1.336	1.35										1.444454	6.22	0.062	1
Hexachloroethane	0.804	0.762	0.751	0.725	0.703	0.724	0.715	0.687	0.69										0.729103	5.16	0.052	1
N-Nitrosodi-n-propylamine	1.498	1.451	1.403	1.365	1.249	1.331	1.311	1.267	1.261										1.348406	6.52	0.065	1
3&4-Methyl phenol	1.711	1.759	1.718	1.682	1.611	1.639	1.639	1.599	1.596										1.661536	3.52	0.035	1
Acetophenone										2.387	2.309	2.281	2.33	2.175	2.21	2.191	2.115	2.05	2.227488	4.87	0.049	1
Naphthalene-d8																						

PDF Generated On: 11/13/2014 - By: Allen Fuller

Environmental Science Corporation
12065 Lebanon Rd., Mt. Juliet, TN 37122

INITIAL CALIBRATION SUMMARY

Instrument ID	: BNAMS11	Review Method	: 625	Released By	: Allen Fuller
Method	: S811K12AN	Review Protocol	: EPA	Released On	: 11/13/2014 3:47:50 PM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- S811K12AN -- ICal Updated Time: Thu Nov 13 14:05:28 2014

Parameter	200	1000	2000	5000	10000	20000	30000	40000	50000	.2K1	1K1	2K1	5K1	10K1	20K1	30K1	40K1	50K1	AvgRF	%RSD	COD	Cur
Nitrobenzene-d5	0.46	0.432	0.431	0.432	0.437	0.433	0.424	0.413	0.414										0.430599	3.21	0.032	1
Nitrobenzene	0.489	0.462	0.453	0.443	0.44	0.432	0.422	0.407	0.402										0.438851	6.19	0.062	1
Isophorone	0.844	0.785	0.781	0.767	0.762	0.737	0.73	0.704	0.693										0.755814	6.12	0.061	1
2-Nitrophenol	0.158	0.161	0.166	0.171	0.191	0.181	0.187	0.185	0.186										0.176322	6.99	0.07	1
2,4-Dimethylphenol	0.413	0.412	0.401	0.393	0.384	0.363	0.356	0.344	0.337										0.377973	7.66	0.077	1
bis(2-Chlorethoxy)methane	0.535	0.516	0.488	0.475	0.475	0.455	0.446	0.431	0.425										0.471885	7.88	0.079	1
2,4-Dichlorophenol	0.313	0.299	0.293	0.288	0.294	0.281	0.28	0.281	0.277										0.289661	4.01	0.04	1
Benzoic Acid										0.037	0.102	0.134	0.179	0.218	0.24	0.256	0.268	0.279	0.190341	44.04	1	3
1,2,4-Trichlorobenzene	0.376	0.347	0.335	0.326	0.328	0.307	0.306	0.3	0.297										0.324706	7.88	0.079	1
Naphthalene	1.575	1.276	1.2	1.133	1.13	1.079	1.061	1.017	1.004										1.163959	15.19	0.152	1
4-Chloroaniline	0.191	0.18	0.177	0.165	0.161	0.163	0.161	0.156	0.156										0.167872	7.22	0.072	1
Hexachloro-1,3-butadiene	0.206	0.209	0.184	0.187	0.186	0.176	0.176	0.173	0.168										0.185118	7.63	0.076	1
Caprolactam										0.09	0.1	0.099	0.105	0.107	0.108	0.108	0.11	0.112	0.104482	6.66	0.067	1
4-Chloro-3-methylphenol	0.356	0.35	0.345	0.345	0.356	0.343	0.34	0.332	0.329										0.344089	2.71	0.027	1
2-Methylnaphthalene	0.9	0.838	0.819	0.792	0.78	0.744	0.727	0.706	0.689										0.777265	8.79	0.088	1
1-Methylnaphthalene	0.808	0.787	0.764	0.729	0.736	0.683	0.673	0.65	0.639										0.718742	8.44	0.084	1
1,2,4,5-Tetrachlorobenzene										0.321	0.336	0.324	0.321	0.318	0.316	0.311	0.309	0.307	0.318047	2.79	0.028	1
Acenaphthene-d10																						
Hexachlorocyclopentadiene	0.32	0.323	0.311	0.325	0.337	0.33	0.332	0.343	0.335										0.328452	2.92	0.029	1
2,4,6-Trichlorophenol	0.312	0.321	0.327	0.333	0.342	0.338	0.333	0.34	0.33										0.330986	2.9	0.029	1
2,4,5-Trichlorophenol	0.359	0.369	0.364	0.374	0.377	0.361	0.36	0.35	0.343										0.361817	2.93	0.029	1
2-Fluorobiphenyl	1.471	1.457	1.36	1.35	1.303	1.242	1.209	1.169	1.149										1.300981	9.08	0.091	1

PDF Generated On: 11/13/2014 -- By: Allen Fuller

Environmental Science Corporation
12065 Lebanon Rd., Mt. Juliet, TN 37122

INITIAL CALIBRATION SUMMARY

Instrument ID	: BNAMS11	Review Method	: 625	Released By	: Allen Fuller
Method	: S811K12AN	Review Protocol	: EPA	Released On	: 11/13/2014 3:47:50 PM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- S811K12AN -- ICal Updated Time: Thu Nov 13 14:05:28 2014

Parameter	200	1000	2000	5000	10000	20000	30000	40000	50000	.2K1	1K1	2K1	5K1	10K1	20K1	30K1	40K1	50K1	AvgRF	%RSD	COD	Cur
Biphenyl	1.662	1.661	1.575	1.538	1.491	1.427	1.377	1.347	1.293										1.485739	9.04	0.09	1
2-Chloronaphthalene	1.337	1.287	1.205	1.191	1.161	1.099	1.071	1.043	1.013										1.15629	9.54	0.095	1
2-Nitroaniline	0.322	0.331	0.347	0.37	0.386	0.385	0.392	0.395	0.393										0.36912	7.69	0.077	1
Acenaphthylene	1.967	1.986	1.876	1.861	1.813	1.736	1.697	1.638	1.588										1.795694	7.83	0.078	1
Dimethyl phthalate	1.41	1.349	1.258	1.243	1.212	1.233	1.225	1.217	1.189										1.259597	5.74	0.057	1
2,6-Dinitrotoluene	0.252	0.261	0.269	0.284	0.289	0.29	0.293	0.295	0.291										0.280435	5.6	0.056	1
3-Nitroaniline	0.303	0.329	0.323	0.335	0.347	0.349	0.348	0.344	0.341										0.335185	4.48	0.045	1
Acenaphthene	1.377	1.351	1.279	1.243	1.189	1.146	1.107	1.068	1.038										1.199784	10.09	0.101	1
2,4-Dinitrophenol			0.078	0.098	0.124	0.139	0.151	0.159	0.16										0.129984	24.44	0.998	0
Dibenzofuran	1.865	1.829	1.739	1.66	1.59	1.517	1.5	1.46	1.441										1.622564	9.82	0.098	1
2,4-Dinitrotoluene	0.278	0.322	0.331	0.357	0.392	0.401	0.407	0.409	0.403										0.366648	12.86	0.129	1
2,3,4,6-Tetrachlorophenol										0.21	0.241	0.241	0.249	0.262	0.262	0.254	0.264	0.263	0.249637	6.96	0.07	1
4-Nitrophenol	0.187	0.218	0.229	0.256	0.277	0.278	0.286	0.285	0.285										0.255623	14.12	0.141	1
Fluorene	1.515	1.528	1.454	1.4	1.322	1.277	1.267	1.219	1.189										1.352334	9.37	0.094	1
4-Chlorophenyl-phenylether	0.669	0.695	0.663	0.636	0.613	0.598	0.605	0.6	0.593										0.630241	5.91	0.059	1
Diethyl phthalate	1.463	1.421	1.352	1.369	1.385	1.363	1.33	1.307	1.257										1.360823	4.47	0.045	1
4-Nitroaniline	0.293	0.327	0.33	0.305	0.302	0.31	0.313	0.323	0.321										0.313738	3.98	0.04	1
Azobenzene	1.698	1.739	1.671	1.647	1.614	1.629	1.638	1.585	1.577										1.644249	3.17	0.032	1
Atrazine										0.31	0.346	0.348	0.357	0.368	0.376	0.371	0.371	0.353	0.355527	5.69	0.057	1
Phenanthrene-d10																						
4,6-Dinitro-2-methylphenol	0.054	0.062	0.071	0.087	0.107	0.108	0.115	0.121	0.123										0.094259	27.96	0.998	0
N-Nitrosodiphenylamine	0.715	0.686	0.67	0.636	0.63	0.611	0.602	0.586	0.582										0.635308	7.28	0.073	1

PDF Generated On: 11/13/2014 -- By: Allen Fuller

Environmental Science Corporation
12065 Lebanon Rd., Mt. Juliet, TN 37122

INITIAL CALIBRATION SUMMARY

Instrument ID	: BNAMS11	Review Method	: 625	Released By	: Allen Fuller
Method	: S811K12AN	Review Protocol	: EPA	Released On	: 11/13/2014 3:47:50 PM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- S811K12AN -- ICal Updated Time: Thu Nov 13 14:05:28 2014

Parameter	200	1000	2000	5000	10000	20000	30000	40000	50000	.2K1	1K1	2K1	5K1	10K1	20K1	30K1	40K1	50K1	AvgRF	%RSD	COD	Cur
2,4,6-Tribromophenol	0.114	0.112	0.11	0.112	0.117	0.119	0.125	0.127	0.13										0.118285	6.02	0.06	1
4-Bromophenyl-phenylether	0.248	0.235	0.224	0.224	0.222	0.214	0.215	0.216	0.217										0.223838	5	0.05	1
Hexachlorobenzene	0.297	0.282	0.267	0.266	0.261	0.255	0.259	0.256	0.258										0.266837	5.28	0.053	1
n-octadecane	0.178	0.157	0.158	0.169	0.164	0.162	0.156	0.146	0.145										0.15946	6.55	0.065	1
Pentachlorophenol	0.127	0.123	0.128	0.14	0.15	0.151	0.158	0.162	0.164										0.144763	10.97	0.11	1
Phenanthrene	1.362	1.279	1.239	1.195	1.161	1.07	1.041	1.005	0.98										1.147834	11.51	0.115	1
Anthracene	1.298	1.301	1.249	1.233	1.19	1.111	1.054	1.018	0.999										1.16115	10.23	0.102	1
Carbazole	1.303	1.253	1.214	1.189	1.135	1.025	1.005	0.973	0.96										1.117561	11.6	0.116	1
Di-n-butyl phthalate	1.619	1.617	1.553	1.592	1.547	1.442	1.401	1.301	1.265										1.481946	9.13	0.091	1
2-nitrodiphenylamine												0.216	0.258	0.321	0.301	0.315	0.306	0.306	0.28903	13.14	0.131	1
Fluoranthene	1.589	1.558	1.497	1.491	1.421	1.32	1.273	1.205	1.153										1.389596	11.36	0.114	1
Chrysene-d12																						
Benzidine										0.245	0.348	0.385	0.52	0.597	0.643	0.645	0.625	0.614	0.513472	29.15	0.997	0
Pyrene	1.273	1.288	1.247	1.235	1.213	1.151	1.126	1.074	1.053										1.184438	7.29	0.073	1
p-Terphenyl-d14	0.988	1	0.979	0.981	0.96	0.915	0.898	0.856	0.849										0.936152	6.22	0.062	1
Benzylbutyl phthalate	0.599	0.58	0.581	0.603	0.631	0.631	0.623	0.603	0.593										0.605107	3.23	0.032	1
3,3-Dichlorobenzidine										0.391	0.457	0.469	0.482	0.477	0.485	0.483	0.47	0.454	0.463256	6.28	0.063	1
Benzo(a)anthracene	1.478	1.376	1.355	1.306	1.275	1.201	1.17	1.114	1.09										1.262697	10.25	0.102	1
Chrysene	1.311	1.28	1.236	1.199	1.168	1.089	1.047	0.998	0.963										1.143407	10.94	0.109	1
bis(2-Ethylhexyl)phthalate	1.059	0.896	0.874	0.907	0.945	0.914	0.891	0.844	0.819										0.905355	7.58	0.076	1
Di-n-octyl phthalate	1.597	1.558	1.538	1.581	1.667	1.593	1.53	1.425	1.385										1.541494	5.69	0.057	1
Perylene-d12																						

PDF Generated On: 11/13/2014 -- By: Allen Fuller

Environmental Science Corporation
12065 Lebanon Rd., Mt. Juliet, TN 37122

INITIAL CALIBRATION SUMMARY

Instrument ID	: BNAMS11	Review Method	: 625	Released By	: Allen Fuller
Method	: S811K12AN	Review Protocol	: EPA	Released On	: 11/13/2014 3:47:50 PM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- S811K12AN -- ICal Updated Time: Thu Nov 13 14:05:28 2014

Parameter	200	1000	2000	5000	10000	20000	30000	40000	50000	.2K1	1K1	2K1	5K1	10K1	20K1	30K1	40K1	50K1	AvgRF	%RSD	COD	Cur
Benzo(b)fluoranthene	1.265	1.242	1.301	1.227	1.167	1.124	1.046	1.048	1.028										1.160948	8.96	0.09	1
Benzo(k)fluoranthene	1.202	1.185	1.114	1.148	1.138	0.992	0.978	0.842	0.781										1.042096	14.63	0.146	1
Benzo(a)pyrene	1.161	1.16	1.151	1.158	1.151	1.071	1.021	0.972	0.951										1.088356	7.98	0.08	1
Indeno(1,2,3-cd)pyrene	1.432	1.46	1.425	1.447	1.401	1.291	1.246	1.169	1.139										1.334522	9.4	0.094	1
Dibenz(a,h)anthracene	1.164	1.199	1.211	1.21	1.19	1.079	1.035	0.965	0.946										1.111043	9.64	0.096	1
Benzo(g,h,i)perylene	1.204	1.193	1.189	1.205	1.175	1.132	1.095	1.009	0.97										1.130195	7.8	0.078	1

PDF Generated On: 11/13/2014 -- By: Allen Fuller

Environmental Science Corporation
12065 Lebanon Rd., Mt. Juliet, TN 37122

INITIAL CALIBRATION SUMMARY

Instrument ID	: BNAMS11	Review Method	: 8270C	Released By	: Allen Fuller
Method	: S811K12AN	Review Protocol	: SW846	Released On	: 11/13/2014 3:48:13 PM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- S811K12AN -- ICal Updated Time: Thu Nov 13 14:05:28 2014

Parameter	200	1000	2000	5000	10000	20000	30000	40000	50000	.2K1	1K1	2K1	5K1	10K1	20K1	30K1	40K1	50K1	AvgRF	%RSD	COD	Cur
1,4-Dichlorobenzene-d4																						
Pyridine	2.306	2.28	2.249	2.179	2.126	2.175	2.181	2.104	2.126										2.19177	3.26	0.033	1
N-Nitrosodimethylamine	1.4	1.322	1.257	1.285	1.178	1.295	1.261	1.215	1.24										1.272504	5.05	0.051	1
2-Fluorophenol	1.517	1.465	1.431	1.393	1.396	1.42	1.425	1.364	1.391										1.422413	3.22	0.032	1
Aniline	1.104	1.107	1.059	1.055	0.982	1.033	1.017	0.957	0.97										1.031546	5.35	0.054	1
bis(2-Chloroethyl)ether	1.521	1.479	1.421	1.394	1.314	1.365	1.321	1.239	1.237										1.365588	7.23	0.072	1
Phenol-d5	2.044	2.008	2.01	1.936	1.92	1.946	1.941	1.852	1.868										1.947317	3.31	0.033	1
Phenol	2.2	2.084	2.075	2.005	1.942	1.952	1.968	1.839	1.826										1.987559	6.01	0.06	1
Benzaldehyde										0.835	0.75	0.751	0.758	0.73	0.766	0.798	0.793	0.757	0.770934	4.17	0.042	1
2-Chlorophenol	1.663	1.627	1.578	1.567	1.527	1.523	1.507	1.43	1.402										1.535728	5.52	0.055	1
n-Decane	1.412	1.364	1.333	1.271	1.124	1.2	1.15	1.045	1.014										1.212632	11.64	0.116	1
1,3-Dichlorobenzene	1.877	1.832	1.725	1.696	1.655	1.635	1.621	1.549	1.552										1.682589	6.77	0.068	1
1,4-Dichlorobenzene	1.968	1.853	1.772	1.691	1.655	1.631	1.627	1.56	1.563										1.702318	8.07	0.081	1
Benzyl Alcohol	1.601	1.557	1.534	1.517	1.431	1.495	1.475	1.441	1.422										1.497071	4.07	0.041	1
1,2-Dichlorobenzene	1.788	1.8	1.679	1.634	1.577	1.586	1.555	1.508	1.488										1.624039	6.93	0.069	1
bis(2-Chloroisopropyl)ether	0.571	0.545	0.527	0.514	0.491	0.489	0.486	0.468	0.472										0.506844	6.9	0.069	1
2-Methylphenol	1.571	1.575	1.511	1.457	1.391	1.406	1.402	1.336	1.35										1.444454	6.22	0.062	1
Hexachloroethane	0.804	0.762	0.751	0.725	0.703	0.724	0.715	0.687	0.69										0.729103	5.16	0.052	1
N-Nitrosodi-n-propylamine	1.498	1.451	1.403	1.365	1.249	1.331	1.311	1.267	1.261										1.348406	6.52	0.065	1
3&4-Methyl phenol	1.711	1.759	1.718	1.682	1.611	1.639	1.639	1.599	1.596										1.661536	3.52	0.035	1
Acetophenone										2.387	2.309	2.281	2.33	2.175	2.21	2.191	2.115	2.05	2.227488	4.87	0.049	1
Naphthalene-d8																						

PDF Generated On: 11/13/2014 - By: Allen Fuller

Environmental Science Corporation
12065 Lebanon Rd., Mt. Juliet, TN 37122

INITIAL CALIBRATION SUMMARY

Instrument ID	: BNAMS11	Review Method	: 8270C	Released By	: Allen Fuller
Method	: S811K12AN	Review Protocol	: SW846	Released On	: 11/13/2014 3:48:13 PM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- S811K12AN -- ICal Updated Time: Thu Nov 13 14:05:28 2014

Parameter	200	1000	2000	5000	10000	20000	30000	40000	50000	.2K1	1K1	2K1	5K1	10K1	20K1	30K1	40K1	50K1	AvgRF	%RSD	COD	Cur
Nitrobenzene-d5	0.46	0.432	0.431	0.432	0.437	0.433	0.424	0.413	0.414										0.430599	3.21	0.032	1
Nitrobenzene	0.489	0.462	0.453	0.443	0.44	0.432	0.422	0.407	0.402										0.438851	6.19	0.062	1
Isophorone	0.844	0.785	0.781	0.767	0.762	0.737	0.73	0.704	0.693										0.755814	6.12	0.061	1
2-Nitrophenol	0.158	0.161	0.166	0.171	0.191	0.181	0.187	0.185	0.186										0.176322	6.99	0.07	1
2,4-Dimethylphenol	0.413	0.412	0.401	0.393	0.384	0.363	0.356	0.344	0.337										0.377973	7.66	0.077	1
bis(2-Chlorethoxy)methane	0.535	0.516	0.488	0.475	0.475	0.455	0.446	0.431	0.425										0.471885	7.88	0.079	1
2,4-Dichlorophenol	0.313	0.299	0.293	0.288	0.294	0.281	0.28	0.281	0.277										0.289661	4.01	0.04	1
Benzoic Acid										0.037	0.102	0.134	0.179	0.218	0.24	0.256	0.268	0.279	0.190341	44.04	1	3
1,2,4-Trichlorobenzene	0.376	0.347	0.335	0.326	0.328	0.307	0.306	0.3	0.297										0.324706	7.88	0.079	1
Naphthalene	1.575	1.276	1.2	1.133	1.13	1.079	1.061	1.017	1.004										1.163959	15.19	0.152	1
4-Chloroaniline	0.191	0.18	0.177	0.165	0.161	0.163	0.161	0.156	0.156										0.167872	7.22	0.072	1
Hexachloro-1,3-butadiene	0.206	0.209	0.184	0.187	0.186	0.176	0.176	0.173	0.168										0.185118	7.63	0.076	1
Caprolactam										0.09	0.1	0.099	0.105	0.107	0.108	0.108	0.11	0.112	0.104482	6.66	0.067	1
4-Chloro-3-methylphenol	0.356	0.35	0.345	0.345	0.356	0.343	0.34	0.332	0.329										0.344089	2.71	0.027	1
2-Methylnaphthalene	0.9	0.838	0.819	0.792	0.78	0.744	0.727	0.706	0.689										0.777265	8.79	0.088	1
1-Methylnaphthalene	0.808	0.787	0.764	0.729	0.736	0.683	0.673	0.65	0.639										0.718742	8.44	0.084	1
1,2,4,5-Tetrachlorobenzene										0.321	0.336	0.324	0.321	0.318	0.316	0.311	0.309	0.307	0.318047	2.79	0.028	1
Acenaphthene-d10																						
Hexachlorocyclopentadiene	0.32	0.323	0.311	0.325	0.337	0.33	0.332	0.343	0.335										0.328452	2.92	0.029	1
2,4,6-Trichlorophenol	0.312	0.321	0.327	0.333	0.342	0.338	0.333	0.34	0.33										0.330986	2.9	0.029	1
2,4,5-Trichlorophenol	0.359	0.369	0.364	0.374	0.377	0.361	0.36	0.35	0.343										0.361817	2.93	0.029	1
2-Fluorobiphenyl	1.471	1.457	1.36	1.35	1.303	1.242	1.209	1.169	1.149										1.300981	9.08	0.091	1

PDF Generated On: 11/13/2014 -- By: Allen Fuller

Environmental Science Corporation
12065 Lebanon Rd., Mt. Juliet, TN 37122

INITIAL CALIBRATION SUMMARY

Instrument ID	: BNAMS11	Review Method	: 8270C	Released By	: Allen Fuller
Method	: S811K12AN	Review Protocol	: SW846	Released On	: 11/13/2014 3:48:13 PM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- S811K12AN -- ICal Updated Time: Thu Nov 13 14:05:28 2014

Parameter	200	1000	2000	5000	10000	20000	30000	40000	50000	.2K1	1K1	2K1	5K1	10K1	20K1	30K1	40K1	50K1	AvgRF	%RSD	COD	Cur
Biphenyl	1.662	1.661	1.575	1.538	1.491	1.427	1.377	1.347	1.293										1.485739	9.04	0.09	1
2-Chloronaphthalene	1.337	1.287	1.205	1.191	1.161	1.099	1.071	1.043	1.013										1.15629	9.54	0.095	1
2-Nitroaniline	0.322	0.331	0.347	0.37	0.386	0.385	0.392	0.395	0.393										0.36912	7.69	0.077	1
Acenaphthylene	1.967	1.986	1.876	1.861	1.813	1.736	1.697	1.638	1.588										1.795694	7.83	0.078	1
Dimethyl phthalate	1.41	1.349	1.258	1.243	1.212	1.233	1.225	1.217	1.189										1.259597	5.74	0.057	1
2,6-Dinitrotoluene	0.252	0.261	0.269	0.284	0.289	0.29	0.293	0.295	0.291										0.280435	5.6	0.056	1
3-Nitroaniline	0.303	0.329	0.323	0.335	0.347	0.349	0.348	0.344	0.341										0.335185	4.48	0.045	1
Acenaphthene	1.377	1.351	1.279	1.243	1.189	1.146	1.107	1.068	1.038										1.199784	10.09	0.101	1
2,4-Dinitrophenol			0.078	0.098	0.124	0.139	0.151	0.159	0.16										0.129984	24.44	0.998	0
Dibenzofuran	1.865	1.829	1.739	1.66	1.59	1.517	1.5	1.46	1.441										1.622564	9.82	0.098	1
2,4-Dinitrotoluene	0.278	0.322	0.331	0.357	0.392	0.401	0.407	0.409	0.403										0.366648	12.86	0.129	1
2,3,4,6-Tetrachlorophenol										0.21	0.241	0.241	0.249	0.262	0.262	0.254	0.264	0.263	0.249637	6.96	0.07	1
4-Nitrophenol	0.187	0.218	0.229	0.256	0.277	0.278	0.286	0.285	0.285										0.255623	14.12	0.141	1
Fluorene	1.515	1.528	1.454	1.4	1.322	1.277	1.267	1.219	1.189										1.352334	9.37	0.094	1
4-Chlorophenyl-phenylether	0.669	0.695	0.663	0.636	0.613	0.598	0.605	0.6	0.593										0.630241	5.91	0.059	1
Diethyl phthalate	1.463	1.421	1.352	1.369	1.385	1.363	1.33	1.307	1.257										1.360823	4.47	0.045	1
4-Nitroaniline	0.293	0.327	0.33	0.305	0.302	0.31	0.313	0.323	0.321										0.313738	3.98	0.04	1
Azobenzene	1.698	1.739	1.671	1.647	1.614	1.629	1.638	1.585	1.577										1.644249	3.17	0.032	1
Atrazine										0.31	0.346	0.348	0.357	0.368	0.376	0.371	0.371	0.353	0.355527	5.69	0.057	1
Phenanthrene-d10																						
4,6-Dinitro-2-methylphenol	0.054	0.062	0.071	0.087	0.107	0.108	0.115	0.121	0.123										0.094259	27.96	0.998	0
N-Nitrosodiphenylamine	0.715	0.686	0.67	0.636	0.63	0.611	0.602	0.586	0.582										0.635308	7.28	0.073	1

PDF Generated On: 11/13/2014 -- By: Allen Fuller

Environmental Science Corporation
12065 Lebanon Rd., Mt. Juliet, TN 37122

INITIAL CALIBRATION SUMMARY

Instrument ID	: BNAMS11	Review Method	: 8270C	Released By	: Allen Fuller
Method	: S811K12AN	Review Protocol	: SW846	Released On	: 11/13/2014 3:48:13 PM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- S811K12AN -- ICal Updated Time: Thu Nov 13 14:05:28 2014

Parameter	200	1000	2000	5000	10000	20000	30000	40000	50000	.2K1	1K1	2K1	5K1	10K1	20K1	30K1	40K1	50K1	AvgRF	%RSD	COD	Cur
2,4,6-Tribromophenol	0.114	0.112	0.11	0.112	0.117	0.119	0.125	0.127	0.13										0.118285	6.02	0.06	1
4-Bromophenyl-phenylether	0.248	0.235	0.224	0.224	0.222	0.214	0.215	0.216	0.217										0.223838	5	0.05	1
Hexachlorobenzene	0.297	0.282	0.267	0.266	0.261	0.255	0.259	0.256	0.258										0.266837	5.28	0.053	1
n-octadecane	0.178	0.157	0.158	0.169	0.164	0.162	0.156	0.146	0.145										0.15946	6.55	0.065	1
Pentachlorophenol	0.127	0.123	0.128	0.14	0.15	0.151	0.158	0.162	0.164										0.144763	10.97	0.11	1
Phenanthrene	1.362	1.279	1.239	1.195	1.161	1.07	1.041	1.005	0.98										1.147834	11.51	0.115	1
Anthracene	1.298	1.301	1.249	1.233	1.19	1.111	1.054	1.018	0.999										1.16115	10.23	0.102	1
Carbazole	1.303	1.253	1.214	1.189	1.135	1.025	1.005	0.973	0.96										1.117561	11.6	0.116	1
Di-n-butyl phthalate	1.619	1.617	1.553	1.592	1.547	1.442	1.401	1.301	1.265										1.481946	9.13	0.091	1
2-nitrodiphenylamine												0.216	0.258	0.321	0.301	0.315	0.306	0.306	0.28903	13.14	0.131	1
Fluoranthene	1.589	1.558	1.497	1.491	1.421	1.32	1.273	1.205	1.153										1.389596	11.36	0.114	1
Chrysene-d12																						
Benzidine										0.245	0.348	0.385	0.52	0.597	0.643	0.645	0.625	0.614	0.513472	29.15	0.997	0
Pyrene	1.273	1.288	1.247	1.235	1.213	1.151	1.126	1.074	1.053										1.184438	7.29	0.073	1
p-Terphenyl-d14	0.988	1	0.979	0.981	0.96	0.915	0.898	0.856	0.849										0.936152	6.22	0.062	1
Benzylbutyl phthalate	0.599	0.58	0.581	0.603	0.631	0.631	0.623	0.603	0.593										0.605107	3.23	0.032	1
3,3-Dichlorobenzidine										0.391	0.457	0.469	0.482	0.477	0.485	0.483	0.47	0.454	0.463256	6.28	0.063	1
Benzo(a)anthracene	1.478	1.376	1.355	1.306	1.275	1.201	1.17	1.114	1.09										1.262697	10.25	0.102	1
Chrysene	1.311	1.28	1.236	1.199	1.168	1.089	1.047	0.998	0.963										1.143407	10.94	0.109	1
bis(2-Ethylhexyl)phthalate	1.059	0.896	0.874	0.907	0.945	0.914	0.891	0.844	0.819										0.905355	7.58	0.076	1
Di-n-octyl phthalate	1.597	1.558	1.538	1.581	1.667	1.593	1.53	1.425	1.385										1.541494	5.69	0.057	1
Perylene-d12																						

PDF Generated On: 11/13/2014 -- By: Allen Fuller

Environmental Science Corporation
12065 Lebanon Rd., Mt. Juliet, TN 37122

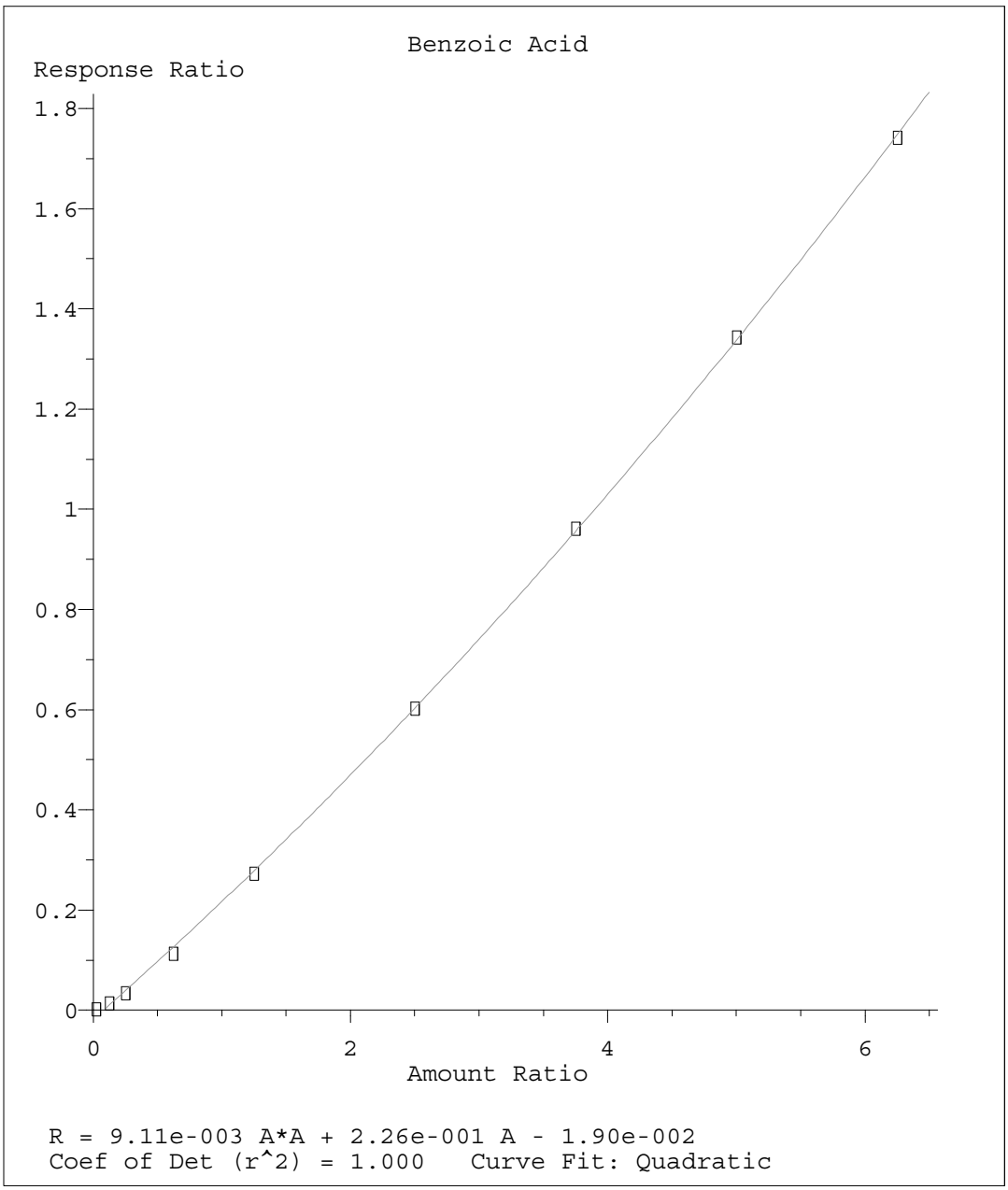
INITIAL CALIBRATION SUMMARY

Instrument ID	: BNAMS11	Review Method	: 8270C	Released By	: Allen Fuller
Method	: S811K12AN	Review Protocol	: SW846	Released On	: 11/13/2014 3:48:13 PM

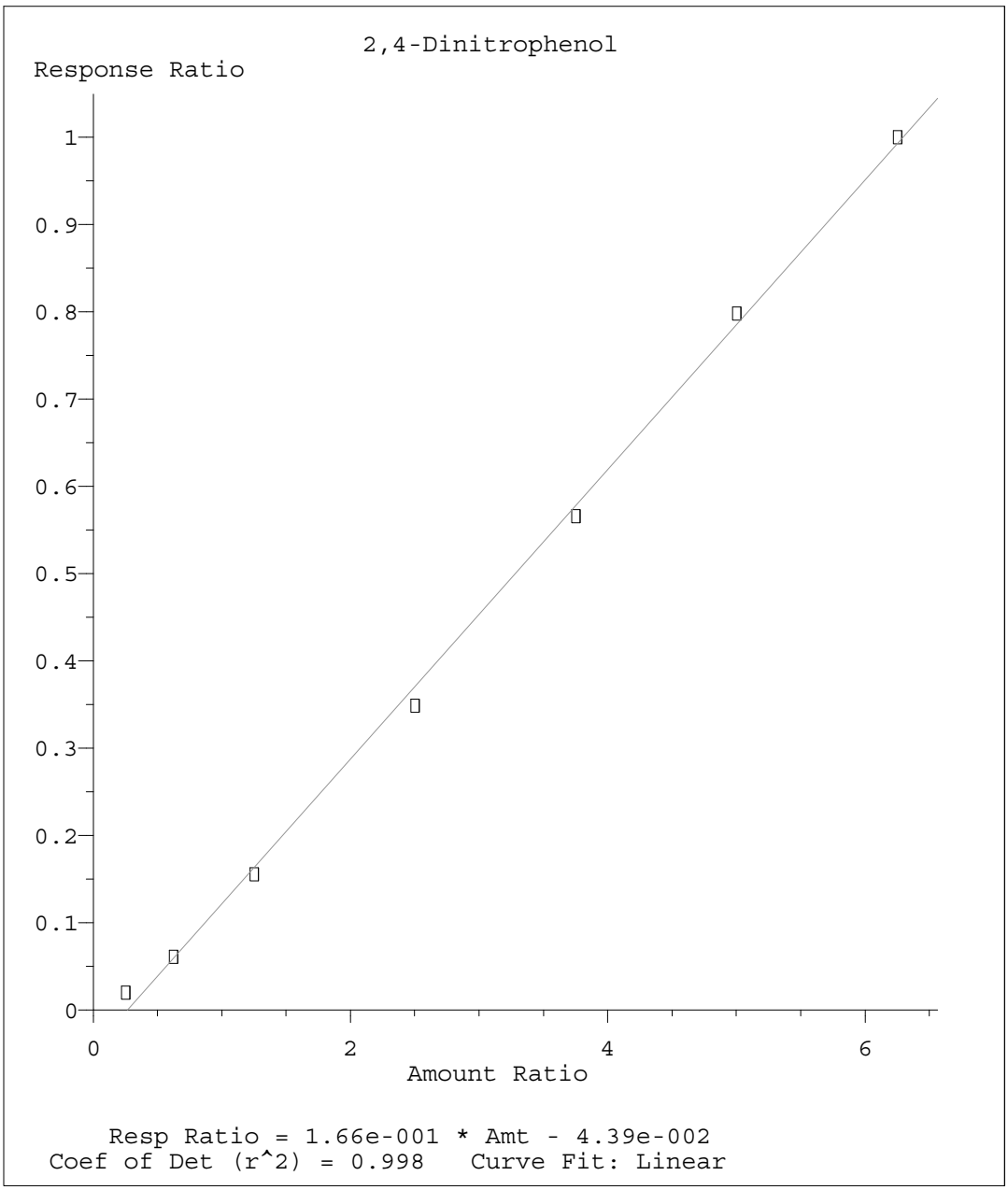
INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- S811K12AN -- ICal Updated Time: Thu Nov 13 14:05:28 2014

Parameter	200	1000	2000	5000	10000	20000	30000	40000	50000	.2K1	1K1	2K1	5K1	10K1	20K1	30K1	40K1	50K1	AvgRF	%RSD	COD	Cur
Benzo(b)fluoranthene	1.265	1.242	1.301	1.227	1.167	1.124	1.046	1.048	1.028										1.160948	8.96	0.09	1
Benzo(k)fluoranthene	1.202	1.185	1.114	1.148	1.138	0.992	0.978	0.842	0.781										1.042096	14.63	0.146	1
Benzo(a)pyrene	1.161	1.16	1.151	1.158	1.151	1.071	1.021	0.972	0.951										1.088356	7.98	0.08	1
Indeno(1,2,3-cd)pyrene	1.432	1.46	1.425	1.447	1.401	1.291	1.246	1.169	1.139										1.334522	9.4	0.094	1
Dibenz(a,h)anthracene	1.164	1.199	1.211	1.21	1.19	1.079	1.035	0.965	0.946										1.111043	9.64	0.096	1
Benzo(g,h,i)perylene	1.204	1.193	1.189	1.205	1.175	1.132	1.095	1.009	0.97										1.130195	7.8	0.078	1

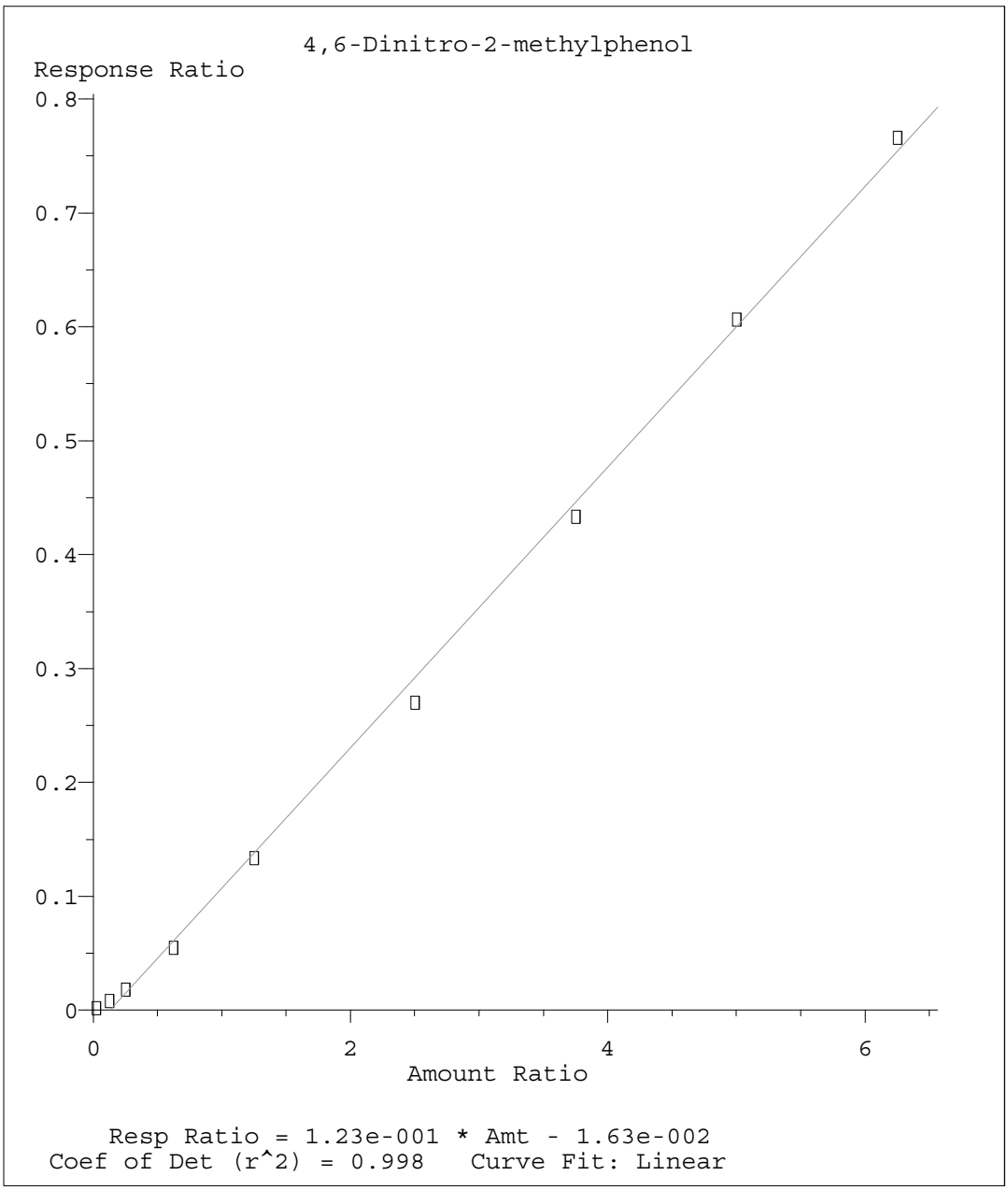
PDF Generated On: 11/13/2014 -- By: Allen Fuller



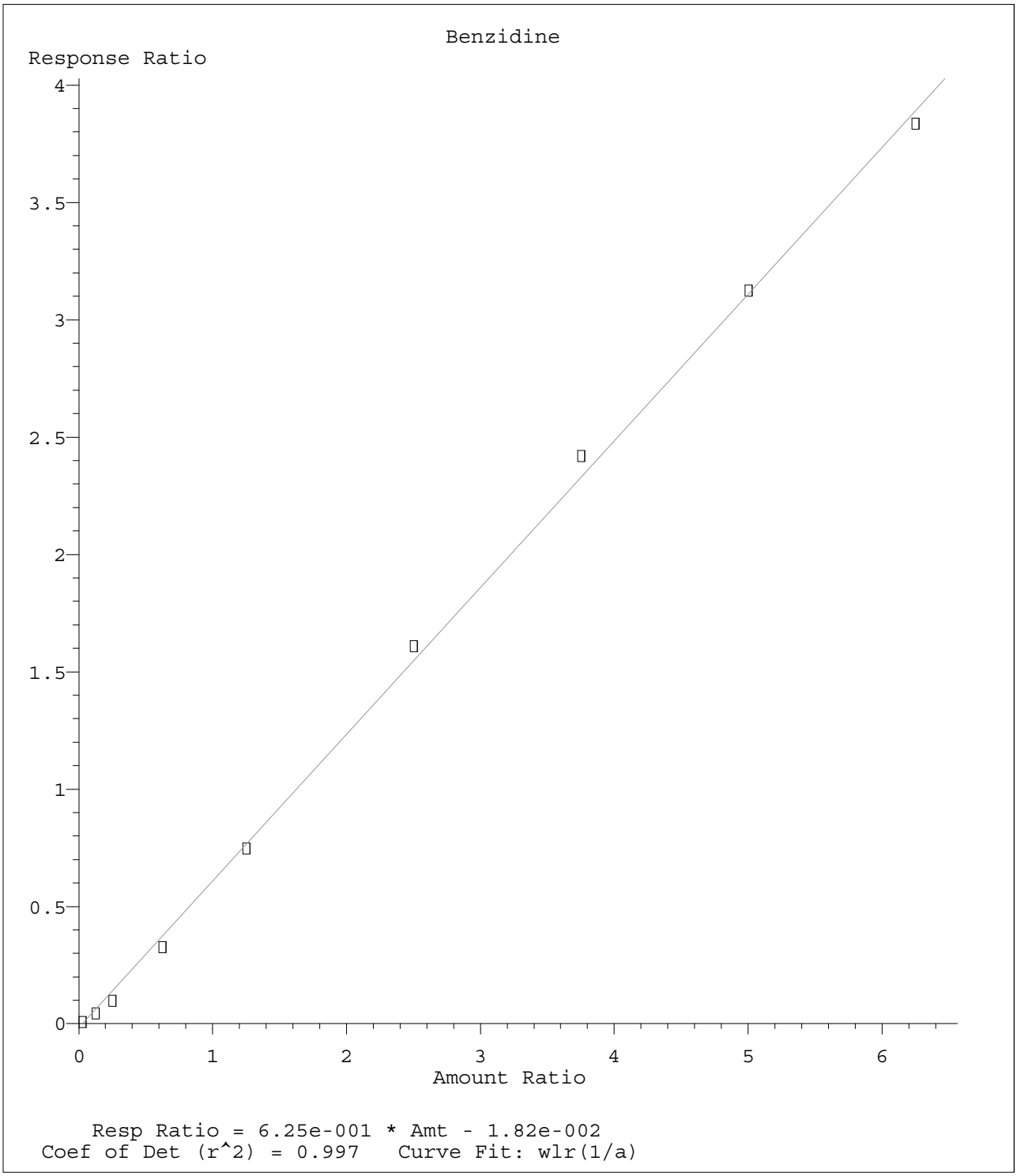
Method Name: C:\MSDCHEM\1\METHODS\S811K12AN.M



Method Name: C:\MSDCHEM\1\METHODS\S811K12AN.M



Method Name: C:\MSDCHEM\1\METHODS\S811K12AN.M



Method Name: C:\MSDCHEM\1\METHODS\S811K12AN.M
Calibration Table Last Updated: Thu Nov 13 14:05:28 2014

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\111214\1112 02.D Vial: 100
Acq On : 12 Nov 2014 9:37 am Operator: 280
Sample : INSTBLK SVOC Inst : BNAMS11
Misc : instrument blank Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Nov 12 21:01 2014 Quant Results File: S811K12N.RES

Quant Method : C:\MSDCHEM\1\METHODS\S811K12N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Wed Nov 12 20:49:50 2014
Response via : Initial Calibration
DataAcq Meth : BNA11

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	0.00	152	0	0.00 ppb	-5.48
22) Naphthalene-d8	0.00	136	0	0.00 ppb	-6.77
40) Acenaphthene-d10	0.00	164	0	0.00 ppb	-8.65
64) Phenanthrene-d10	0.00	188	0	0.00 ppb	-10.28
78) Chrysene-d12	13.17	240	2211	8000.00 ppb	0.00
88) Perylene-d12	14.71	264	2287	8000.00 ppb	0.00

System Monitoring Compounds					
4) 2-Fluorophenol	0.00	112	0	0.0000000 ppb	
Spiked Amount 20.000	Range 10 - 74		Recovery = 0.00%#		
7) Phenol-d5	5.07	99	141	0.0000000 ppb	-0.01
Spiked Amount 20.000	Range 10 - 63		Recovery = 0.00%#		
23) Nitrobenzene-d5	6.07	82	153	0.0000000 ppb	0.05
Spiked Amount 10.000	Range 28 - 123		Recovery = 0.00%#		
44) 2-Fluorobiphenyl	0.00	172	0	0.0000000 ppb	
Spiked Amount 10.000	Range 35 - 133		Recovery = 0.00%#		
67) 2,4,6-Tribromophenol	0.00	330	0	0.0000000 ppb	
Spiked Amount 20.000	Range 22 - 154		Recovery = 0.00%#		
81) p-Terphenyl-d14	11.98	244	61	235.7678783 ppb	0.00
Spiked Amount 10.000	Range 30 - 148		Recovery = 2357.68%#		

Target Compounds				Qvalue
2) Pyridine	3.47	79	340	N.D.
3) N-Nitrosodimethylamine	3.54	42	2076	N.D.
5) Aniline	5.06	66	355	N.D.
6) bis(2-Chloroethyl)ether	5.07	63	120	N.D.
8) Phenol	5.07	94	54	N.D.
9) Benzaldehyde	5.07	105	4574	N.D.
10) 2-Chlorophenol	0.00	128	0	N.D.
11) n-Decane	5.26	41	3429	N.D.
12) 1,3-Dichlorobenzene	0.00	146	0	N.D.
13) 1,4-Dichlorobenzene	0.00	146	0	N.D.
14) Benzyl Alcohol	5.58	79	658	N.D.
15) 1,2-Dichlorobenzene	5.65	146	141	N.D.
16) bis(2-Chloroisopropyl)ethe	0.00	121	0	N.D.
17) 2-Methylphenol	5.58	108	430	N.D.
18) Hexachloroethane	6.17	117	1511	N.D.
19) N-Nitrosodi-n-propylamine	5.87	70	6009	N.D.
20) 3&4-Methyl phenol	5.58	107	340	N.D.
21) Acetophenone	5.85	105	239	N.D.
24) Nitrobenzene	5.94	77	53	N.D.
25) Isophorone	6.35	82	59	N.D.
26) 2-Nitrophenol	6.16	139	1246	N.D.
27) 2,4-Dimethylphenol	6.17	107	147	N.D.
28) bis(2-Chlorethoxy)methane	0.00	93	0	N.D.
29) 2,4-Dichlorophenol	0.00	162	0	N.D.
30) Benzoic Acid	6.45	105	59	No Quad Fit
31) 1,2,4-Trichlorobenzene	0.00	180	0	N.D.
32) Naphthalene	6.78	128	2852	N.D.
33) 4-Chloroaniline	0.00	65	0	N.D.
34) Hexachloro-1,3-butadiene	0.00	225	0	N.D.
35) Caprolactam	7.28	113	875	N.D.
36) 4-Chloro-3-methylphenol	0.00	107	0	N.D.
37) 2-Methylnaphthalene	7.27	142	308	N.D.
38) 1-Methylnaphthalene	0.00	142	0	N.D.

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\111214\1112 02.D Vial: 100
Acq On : 12 Nov 2014 9:37 am Operator: 280
Sample : INSTBLK SVOC Inst : BNAMS11
Misc : instrument blank Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Nov 12 21:01 2014 Quant Results File: S811K12N.RES

Quant Method : C:\MSDCHEM\1\METHODS\S811K12N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Wed Nov 12 20:49:50 2014
Response via : Initial Calibration
DataAcq Meth : BNA11

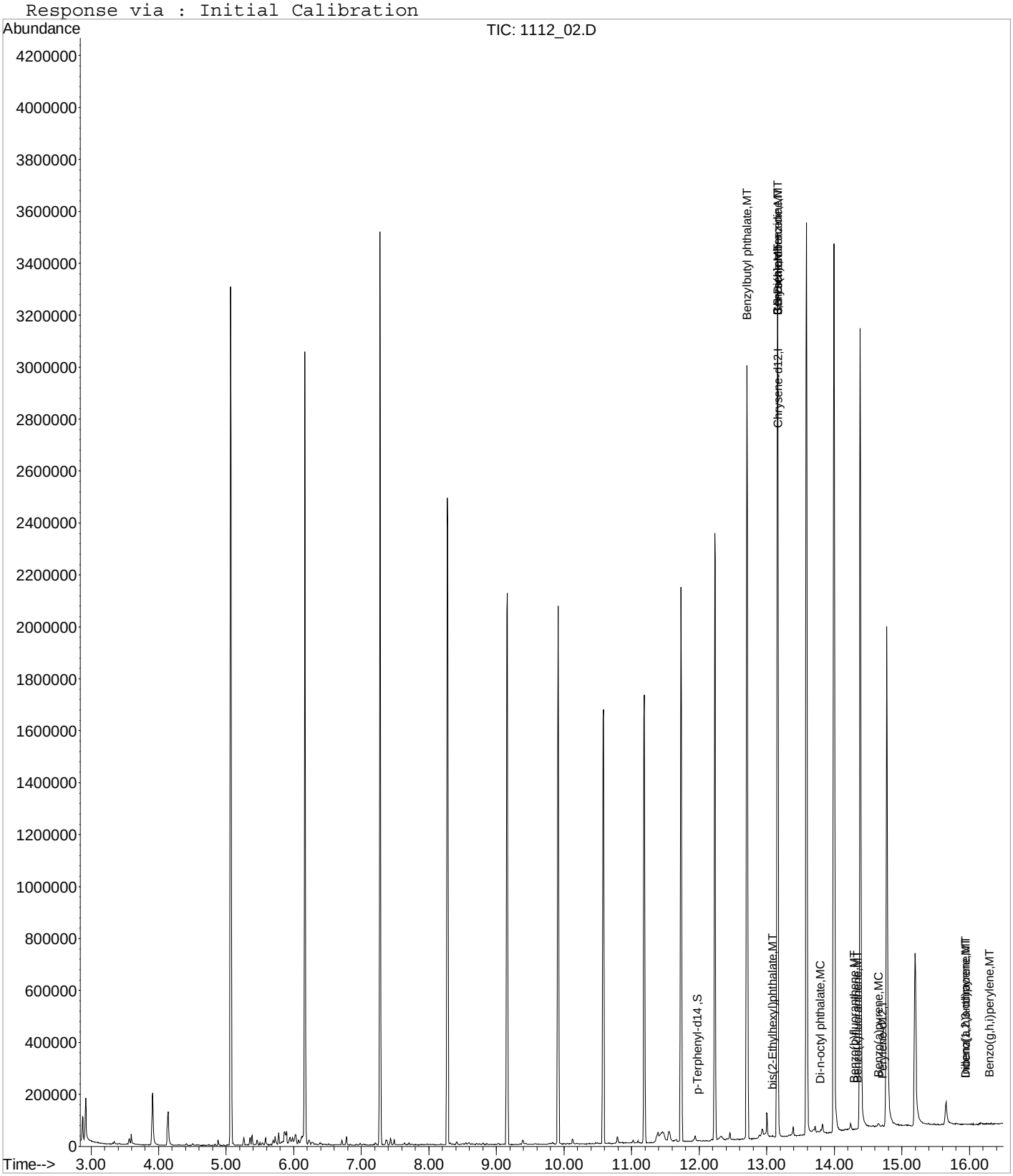
	Compound	R.T.	QIon	Response	Conc Unit		Qvalue
39)	1,2,4,5-Tetrachlorobenzene	0.00	216	0	N.D.		
41)	Hexachlorocyclopentadiene	0.00	237	0	N.D.		
42)	2,4,6-Trichlorophenol	0.00	196	0	N.D.		
43)	2,4,5-Trichlorophenol	0.00	196	0	N.D.		
45)	Biphenyl	0.00	154	0	N.D.		
46)	2-Chloronaphthalene	0.00	162	0	N.D.		
47)	2-Nitroaniline	0.00	138	0	N.D.		
48)	Acenaphthylene	0.00	152	0	N.D.		
49)	Dimethyl phthalate	8.28	163	953	N.D.		
50)	2,6-Dinitrotoluene	0.00	165	0	N.D.		
51)	3-Nitroaniline	0.00	138	0	N.D.		
52)	Acenaphthene	0.00	153	0	N.D.		
53)	2,4-Dinitrophenol	0.00	184	0	N.D.		
54)	Dibenzofuran	0.00	168	0	N.D.		
55)	2,4-Dinitrotoluene	0.00	165	0	N.D.		
56)	2,3,4,6-Tetrachlorophenol	0.00	232	0	N.D.		
57)	4-Nitrophenol	0.00	139	0	N.D.		
58)	Fluorene	0.00	166	0	N.D.		
59)	4-Chlorophenyl-phenylether	9.15	204	157	N.D.		
60)	Diethyl phthalate	9.15	149	13969	N.D.		
61)	4-Nitroaniline	0.00	138	0	N.D.		
62)	Azobenzene	9.40	77	73	N.D.		
63)	Atrazine	0.00	200	0	N.D.		
65)	4,6-Dinitro-2-methylphenol	0.00	198	0	N.D.		
66)	N-Nitrosodiphenylamine	0.00	169	0	N.D.		
68)	4-Bromophenyl-phenylether	9.91	248	271	N.D.		
69)	Hexachlorobenzene	9.91	284	2423	N.D.		
70)	n-octadecane	10.11	55	616	N.D.		
71)	Pentachlorophenol	9.91	266	2306	N.D.		
72)	Phenanthrene	0.00	178	0	N.D.		
73)	Anthracene	10.58	178	218	N.D.		
74)	Carbazole	10.52	167	224	N.D.		
75)	Di-n-butyl phthalate	10.85	149	464	N.D.		
76)	2-nitrodiphenylamine	11.02	167	357	N.D.		
77)	Fluoranthene	0.00	202	0	N.D.		
79)	Benzidine	0.00	184	0	N.D.		
80)	Pyrene	0.00	202	0	N.D.		
82)	Benzylbutyl phthalate	12.71	149	29435	176008.3992643 ppb	#	38
83)	3,3-Dichlorobenzidine	13.16	252	1089	8505.6551476 ppb	#	60
84)	Benzo(a)anthracene	13.16	228	94	269.3579885 ppb	#	8
85)	Chrysene	13.16	228	94	297.4596587 ppb	#	15
86)	bis(2-Ethylhexyl)phthalate	13.08	149	1558	6226.5806471 ppb		90
87)	Di-n-octyl phthalate	13.80	149	1544	3624.1546016 ppb		73
89)	Benzo(b)fluoranthene	14.30	252	347	1045.5398559 ppb	#	61
90)	Benzo(k)fluoranthene	14.34	252	345	1158.0706000 ppb	#	40
91)	Benzo(a)pyrene	14.65	252	159	511.0340371 ppb	#	60
92)	Indeno(1,2,3-cd)pyrene	15.94	276	149	390.5570588 ppb	#	59
93)	Dibenz(a,h)anthracene	15.94	278	341	1073.6119718 ppb	#	30
94)	Benzo(g,h,i)perylene	16.30	276	235	727.3417103 ppb	#	1

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\111214\1112 02.D Vial: 100
Acq On : 12 Nov 2014 9:37 am Operator: 280
Sample : INSTBLK SVOC Inst : BNAMS11
Misc : instrument blank Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Nov 12 21:01 2014 Quant Results File: S811K12N.RES

Method : C:\MSDCHEM\1\METHODS\S811K12N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Wed Nov 12 20:49:50 2014
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\111214\1112 02.D Vial: 100
Acq On : 12 Nov 2014 9:37 am Operator: 280
Sample : INSTBLK SVOC Inst : BNAMS11
Misc : instrument blank Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Nov 12 21:01 2014 Quant Results File: S811K12N.RES

Quant Method : C:\MSDCHEM\1\METHODS\S811K12N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Wed Nov 12 20:49:50 2014
Response via : Initial Calibration
DataAcq Meth : BNA11

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	0.00	152	0	0.00 ppb	-5.48
22) Naphthalene-d8	0.00	136	0	0.00 ppb	-6.77
40) Acenaphthene-d10	0.00	164	0	0.00 ppb	-8.65
64) Phenanthrene-d10	0.00	188	0	0.00 ppb	-10.28
78) Chrysene-d12	13.17	240	2211	8000.00 ppb	0.00
88) Perylene-d12	14.71	264	2287	8000.00 ppb	0.00

System Monitoring Compounds					
4) 2-Fluorophenol	0.00	112	0	0.0000000 ppb	
Spiked Amount 20.000	Range 10 - 74		Recovery	= 0.00%#	
7) Phenol-d5	5.07	99	141	0.0000000 ppb	-0.01
Spiked Amount 20.000	Range 10 - 63		Recovery	= 0.00%#	
23) Nitrobenzene-d5	6.07	82	153	0.0000000 ppb	0.05
Spiked Amount 10.000	Range 28 - 123		Recovery	= 0.00%#	
44) 2-Fluorobiphenyl	0.00	172	0	0.0000000 ppb	
Spiked Amount 10.000	Range 35 - 133		Recovery	= 0.00%#	
67) 2,4,6-Tribromophenol	0.00	330	0	0.0000000 ppb	
Spiked Amount 20.000	Range 22 - 154		Recovery	= 0.00%#	
81) p-Terphenyl-d14	11.98	244	61	235.7678783 ppb	0.00
Spiked Amount 10.000	Range 30 - 148		Recovery	= 2357.68%#	

Target Compounds				Qvalue
2) Pyridine	3.47	79	340	N.D.
3) N-Nitrosodimethylamine	3.54	42	2076	N.D.
5) Aniline	5.06	66	355	N.D.
6) bis(2-Chloroethyl)ether	5.07	63	120	N.D.
8) Phenol	5.07	94	54	N.D.
9) Benzaldehyde	5.07	105	4574	N.D.
10) 2-Chlorophenol	0.00	128	0	N.D.
11) n-Decane	5.26	41	3429	N.D.
12) 1,3-Dichlorobenzene	0.00	146	0	N.D.
13) 1,4-Dichlorobenzene	0.00	146	0	N.D.
14) Benzyl Alcohol	5.58	79	658	N.D.
15) 1,2-Dichlorobenzene	5.65	146	141	N.D.
16) bis(2-Chloroisopropyl)ethe	0.00	121	0	N.D.
17) 2-Methylphenol	5.58	108	430	N.D.
18) Hexachloroethane	6.17	117	1511	N.D.
19) N-Nitrosodi-n-propylamine	5.87	70	6009	N.D.
20) 3&4-Methyl phenol	5.58	107	340	N.D.
21) Acetophenone	5.85	105	239	N.D.
24) Nitrobenzene	5.94	77	53	N.D.
25) Isophorone	6.35	82	59	N.D.
26) 2-Nitrophenol	6.16	139	1246	N.D.
27) 2,4-Dimethylphenol	6.17	107	147	N.D.
28) bis(2-Chlorethoxy)methane	0.00	93	0	N.D.
29) 2,4-Dichlorophenol	0.00	162	0	N.D.
30) Benzoic Acid	6.45	105	59	No Quad Fit
31) 1,2,4-Trichlorobenzene	0.00	180	0	N.D.
32) Naphthalene	6.78	128	2852	N.D.
33) 4-Chloroaniline	0.00	65	0	N.D.
34) Hexachloro-1,3-butadiene	0.00	225	0	N.D.
35) Caprolactam	7.28	113	875	N.D.
36) 4-Chloro-3-methylphenol	0.00	107	0	N.D.
37) 2-Methylnaphthalene	7.27	142	308	N.D.
38) 1-Methylnaphthalene	0.00	142	0	N.D.

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\111214\1112 02.D Vial: 100
Acq On : 12 Nov 2014 9:37 am Operator: 280
Sample : INSTBLK SVOC Inst : BNAMS11
Misc : instrument blank Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Nov 12 21:01 2014 Quant Results File: S811K12N.RES

Quant Method : C:\MSDCHEM\1\METHODS\S811K12N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Wed Nov 12 20:49:50 2014
Response via : Initial Calibration
DataAcq Meth : BNA11

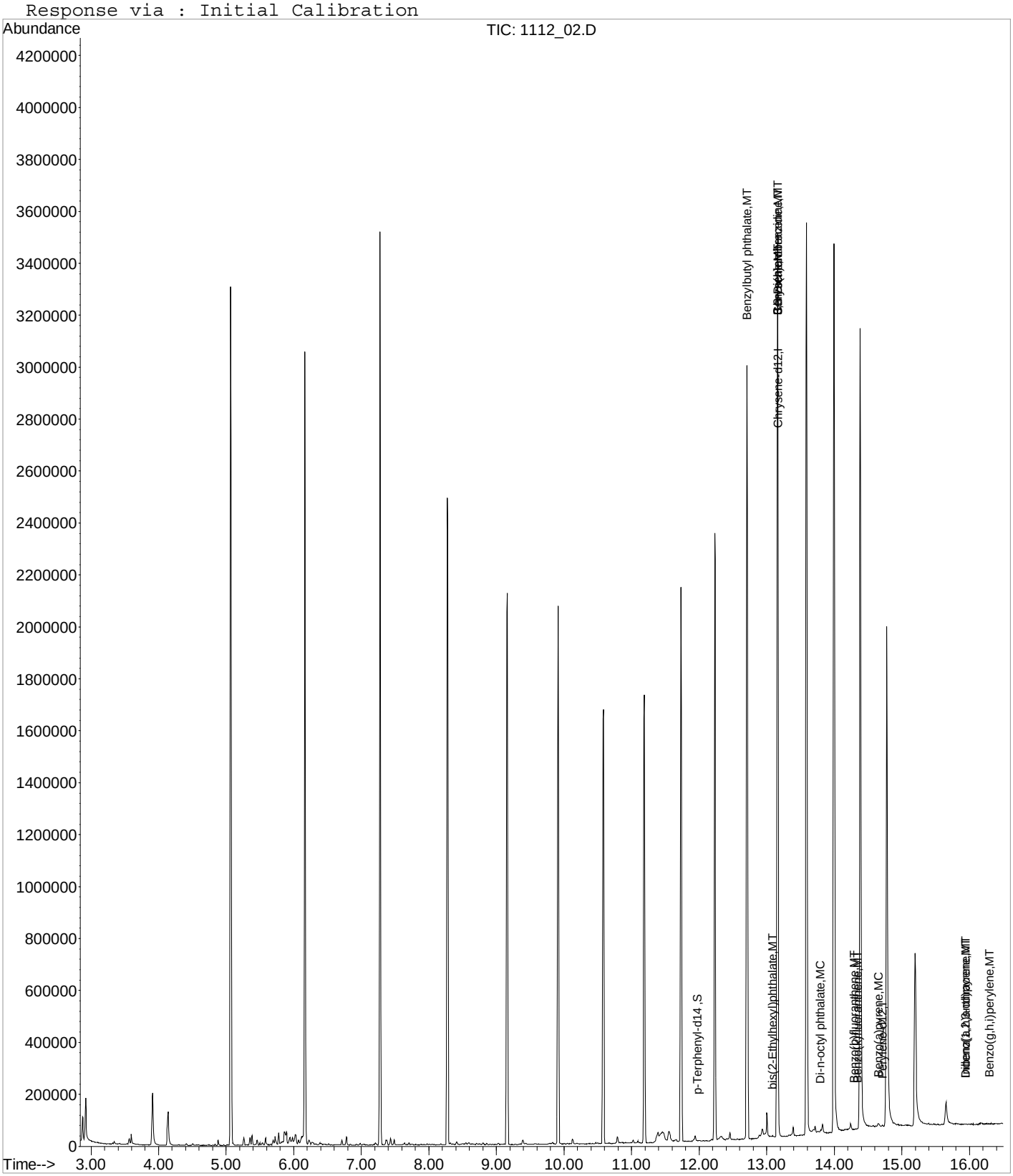
	Compound	R.T.	QIon	Response	Conc Unit		Qvalue
39)	1,2,4,5-Tetrachlorobenzene	0.00	216	0	N.D.		
41)	Hexachlorocyclopentadiene	0.00	237	0	N.D.		
42)	2,4,6-Trichlorophenol	0.00	196	0	N.D.		
43)	2,4,5-Trichlorophenol	0.00	196	0	N.D.		
45)	Biphenyl	0.00	154	0	N.D.		
46)	2-Chloronaphthalene	0.00	162	0	N.D.		
47)	2-Nitroaniline	0.00	138	0	N.D.		
48)	Acenaphthylene	0.00	152	0	N.D.		
49)	Dimethyl phthalate	8.28	163	953	N.D.		
50)	2,6-Dinitrotoluene	0.00	165	0	N.D.		
51)	3-Nitroaniline	0.00	138	0	N.D.		
52)	Acenaphthene	0.00	153	0	N.D.		
53)	2,4-Dinitrophenol	0.00	184	0	N.D.		
54)	Dibenzofuran	0.00	168	0	N.D.		
55)	2,4-Dinitrotoluene	0.00	165	0	N.D.		
56)	2,3,4,6-Tetrachlorophenol	0.00	232	0	N.D.		
57)	4-Nitrophenol	0.00	139	0	N.D.		
58)	Fluorene	0.00	166	0	N.D.		
59)	4-Chlorophenyl-phenylether	9.15	204	157	N.D.		
60)	Diethyl phthalate	9.15	149	13969	N.D.		
61)	4-Nitroaniline	0.00	138	0	N.D.		
62)	Azobenzene	9.40	77	73	N.D.		
63)	Atrazine	0.00	200	0	N.D.		
65)	4,6-Dinitro-2-methylphenol	0.00	198	0	N.D.		
66)	N-Nitrosodiphenylamine	0.00	169	0	N.D.		
68)	4-Bromophenyl-phenylether	9.91	248	271	N.D.		
69)	Hexachlorobenzene	9.91	284	2423	N.D.		
70)	n-octadecane	10.11	55	616	N.D.		
71)	Pentachlorophenol	9.91	266	2306	N.D.		
72)	Phenanthrene	0.00	178	0	N.D.		
73)	Anthracene	10.58	178	218	N.D.		
74)	Carbazole	10.52	167	224	N.D.		
75)	Di-n-butyl phthalate	10.85	149	464	N.D.		
76)	2-nitrodiphenylamine	11.02	167	357	N.D.		
77)	Fluoranthene	0.00	202	0	N.D.		
79)	Benzidine	0.00	184	0	N.D.		
80)	Pyrene	0.00	202	0	N.D.		
82)	Benzylbutyl phthalate	12.71	149	29435	176008.3992643 ppb	#	38
83)	3,3-Dichlorobenzidine	13.16	252	1089	8505.6551476 ppb	#	60
84)	Benzo(a)anthracene	13.16	228	94	269.3579885 ppb	#	8
85)	Chrysene	13.16	228	94	297.4596587 ppb	#	15
86)	bis(2-Ethylhexyl)phthalate	13.08	149	1558	6226.5806471 ppb		90
87)	Di-n-octyl phthalate	13.80	149	1544	3624.1546016 ppb		73
89)	Benzo(b)fluoranthene	14.30	252	347	1045.5398559 ppb	#	61
90)	Benzo(k)fluoranthene	14.34	252	345	1158.0706000 ppb	#	40
91)	Benzo(a)pyrene	14.65	252	159	511.0340371 ppb	#	60
92)	Indeno(1,2,3-cd)pyrene	15.94	276	149	390.5570588 ppb	#	59
93)	Dibenz(a,h)anthracene	15.94	278	341	1073.6119718 ppb	#	30
94)	Benzo(g,h,i)perylene	16.30	276	235	727.3417103 ppb	#	1

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\111214\1112 02.D Vial: 100
Acq On : 12 Nov 2014 9:37 am Operator: 280
Sample : INSTBLK SVOC Inst : BNAMS11
Misc : instrument blank Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Nov 12 21:01 2014 Quant Results File: S811K12N.RES

Method : C:\MSDCHEM\1\METHODS\S811K12N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Wed Nov 12 20:49:50 2014
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\111214\1112 04MRL.D Vial: 2
Acq On : 12 Nov 2014 11:42 am Operator: 280
Sample : MRL SVMS 10K PPB 14K07412 Inst : BNAMS11
Misc : 8270 Primary Calibration Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Nov 13 15:35 2014 Quant Results File: S811K12AN.RES

Quant Method : C:\MSDCHEM\1\METHODS\S811K12AN.M (RTE Integrator)
Title : 8270 BNA
Last Update : Thu Nov 13 14:05:28 2014
Response via : Initial Calibration
DataAcq Meth : BNA11A

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	5.48	152	101718	8000.00 ppb	0.00
22) Naphthalene-d8	6.77	136	426831	8000.00 ppb	0.00
40) Acenaphthene-d10	8.65	164	259793	8000.00 ppb	0.00
64) Phenanthrene-d10	10.28	188	468019	8000.00 ppb	0.00
78) Chrysene-d12	13.18	240	576249	8000.00 ppb	0.00
88) Perylene-d12	14.71	264	705133	8000.00 ppb	0.00

System Monitoring Compounds					
4) 2-Fluorophenol	4.35	112	177519	9815.4750245 ppb	0.00
Spiked Amount 20.000	Range 10 - 74		Recovery = 49077.38%#		
7) Phenol-d5	5.08	99	244096	9858.6201123 ppb	0.00
Spiked Amount 20.000	Range 10 - 63		Recovery = 49293.10%#		
23) Nitrobenzene-d5	6.01	82	233385	10158.5970027 ppb	0.00
Spiked Amount 10.000	Range 28 - 123		Recovery = 101585.97%#		
44) 2-Fluorobiphenyl	7.90	172	423001	10012.2827092 ppb	0.00
Spiked Amount 10.000	Range 35 - 133		Recovery = 100122.83%#		
67) 2,4,6-Tribromophenol	9.51	330	68240	9861.3446471 ppb	0.00
Spiked Amount 20.000	Range 22 - 154		Recovery = 49306.72%#		
81) p-Terphenyl-d14	11.99	244	691236	10250.8459373 ppb	0.00
Spiked Amount 10.000	Range 30 - 148		Recovery = 102508.46%#		

Target Compounds						Qvalue
2) Pyridine	3.45	79	270356	9701.3743118 ppb		100
3) N-Nitrosodimethylamine	3.43	42	149790	9257.9740999 ppb		100
5) Aniline	5.17	66	124848	9518.8661166 ppb		100
6) bis(2-Chloroethyl)ether	5.21	63	167020	9619.2466787 ppb		100
8) Phenol	5.10	94	246884	9769.3367163 ppb		100
9) Benzaldehyde	5.10	105	448	45.7038751 ppb	#	1
10) 2-Chlorophenol	5.28	128	194094	9940.0838108 ppb		100
11) n-Decane	5.30	41	142953	9271.6358926 ppb		100
12) 1,3-Dichlorobenzene	5.43	146	210433	9836.2139027 ppb		100
13) 1,4-Dichlorobenzene	5.50	146	210479	9724.3404735 ppb		100
14) Benzyl Alcohol	5.58	79	181995	9561.1314449 ppb		100
15) 1,2-Dichlorobenzene	5.65	146	200554	9712.4086970 ppb		100
16) bis(2-Chloroisopropyl)ethe	5.72	121	62372	9678.4849776 ppb		100
17) 2-Methylphenol	5.67	108	176880	9630.9063739 ppb		100
18) Hexachloroethane	5.98	117	89433	9647.2018310 ppb		100
19) N-Nitrosodi-n-propylamine	5.84	70	158857	9265.6912119 ppb		100
20) 3&4-Methyl phenol	5.82	107	204822	9695.2499484 ppb		100
21) Acetophenone	5.82	105	1881	66.4149160 ppb	#	1
24) Nitrobenzene	6.03	77	234912	10032.7973706 ppb		100
25) Isophorone	6.27	82	406510	10080.6904946 ppb		100
26) 2-Nitrophenol	6.35	139	101922	10834.1845521 ppb		100
27) 2,4-Dimethylphenol	6.36	107	204626	10146.9290767 ppb		100
28) bis(2-Chlorethoxy)methane	6.47	93	253411	10065.2227619 ppb		100
29) 2,4-Dichlorophenol	6.59	162	156799	10145.8129144 ppb		100
30) Benzoic Acid	6.36	105	6656	1219.2679865 ppb	#	1
31) 1,2,4-Trichlorobenzene	6.70	180	175220	10114.1104524 ppb		100
32) Naphthalene	6.79	128	603067	9710.9568229 ppb		100
33) 4-Chloroaniline	6.82	65	86133	9616.6898689 ppb		100
34) Hexachloro-1,3-butadiene	6.90	225	99330	10056.9322675 ppb		100
35) Caprolactam	7.31	113	5397	968.1552642 ppb	#	26
36) 4-Chloro-3-methylphenol	7.31	107	189864	10342.0422183 ppb		100
37) 2-Methylnaphthalene	7.52	142	416350	10039.7607904 ppb		100
38) 1-Methylnaphthalene	7.63	142	392673	10239.8197499 ppb		100

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\111214\1112 04MRL.D Vial: 2
Acq On : 12 Nov 2014 11:42 am Operator: 280
Sample : MRL SVMS 10K PPB 14K07412 Inst : BNAMS11
Misc : 8270 Primary Calibration Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Nov 13 15:35 2014 Quant Results File: S811K12AN.RES

Quant Method : C:\MSDCHEM\1\METHODS\S811K12AN.M (RTE Integrator)
Title : 8270 BNA
Last Update : Thu Nov 13 14:05:28 2014
Response via : Initial Calibration
DataAcq Meth : BNA11A

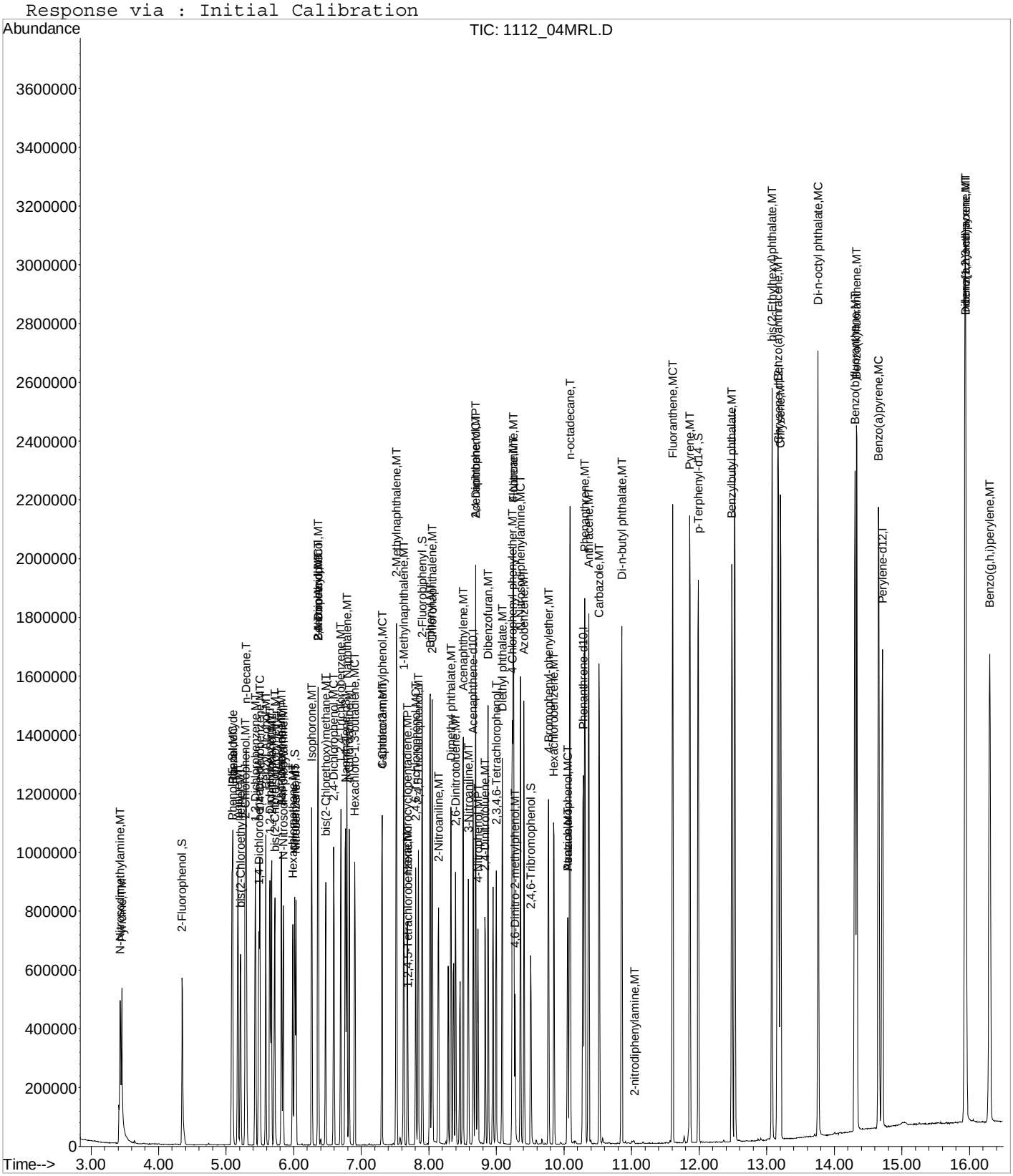
	Compound	R.T.	QIon	Response	Conc Unit		Qvalue
39)	1,2,4,5-Tetrachlorobenzene	7.70	216	201	11.8451097 ppb	#	30
41)	Hexachlorocyclopentadiene	7.68	237	109510	10267.0106525 ppb		100
42)	2,4,6-Trichlorophenol	7.81	196	111219	10347.4098943 ppb		100
43)	2,4,5-Trichlorophenol	7.84	196	122320	10410.4960988 ppb		100
45)	Biphenyl	8.02	154	484153	10034.6574678 ppb		100
46)	2-Chloronaphthalene	8.05	162	376867	10036.5334044 ppb		100
47)	2-Nitroaniline	8.14	138	125219	10446.3512495 ppb		100
48)	Acenaphthylene	8.51	152	588736	10096.0313848 ppb		100
49)	Dimethyl phthalate	8.32	163	393731	9625.6606977 ppb		100
50)	2,6-Dinitrotoluene	8.40	165	93835	10303.7341686 ppb		100
51)	3-Nitroaniline	8.58	138	112610	10345.5766636 ppb		100
52)	Acenaphthene	8.69	153	386065	9908.7761127 ppb		100
53)	2,4-Dinitrophenol	8.70	184	40428	9623.7517592 ppb		100
54)	Dibenzofuran	8.88	168	516402	9800.5106599 ppb		100
55)	2,4-Dinitrotoluene	8.84	165	127269	10688.9617922 ppb		100
56)	2,3,4,6-Tetrachlorophenol	9.00	232	94972	11715.2062573 ppb		95
57)	4-Nitrophenol	8.72	139	89844	10823.0952290 ppb		100
58)	Fluorene	9.25	166	429330	9776.1973896 ppb		100
59)	4-Chlorophenyl-phenylether	9.24	204	199218	9733.8405380 ppb		100
60)	Diethyl phthalate	9.08	149	449667	10175.4127825 ppb		100
61)	4-Nitroaniline	9.25	138	98078	9626.4685152 ppb		100
62)	Azobenzene	9.41	77	524270	9818.6063198 ppb		100
63)	Atrazine	10.05	200	14712	1274.2710122 ppb	#	28
65)	4,6-Dinitro-2-methylphenol	9.28	198	62198	9687.2052390 ppb		100
66)	N-Nitrosodiphenylamine	9.35	169	368511	9914.9946936 ppb		100
68)	4-Bromophenyl-phenylether	9.77	248	129795	9911.7529282 ppb		100
69)	Hexachlorobenzene	9.85	284	152961	9798.5334013 ppb		100
70)	n-octadecane	10.09	55	95730	10261.7804577 ppb		100
71)	Pentachlorophenol	10.05	266	87763	10362.8645386 ppb		100
72)	Phenanthrene	10.31	178	679482	10118.7108801 ppb		100
73)	Anthracene	10.37	178	696084	10247.0696515 ppb		100
74)	Carbazole	10.52	167	663910	10154.6358228 ppb		100
75)	Di-n-butyl phthalate	10.85	149	905153	10440.3773965 ppb		100
76)	2-nitrodiphenylamine	11.05	167	87	5.1452130 ppb	#	1
77)	Fluoranthene	11.61	202	831275	10225.4564223 ppb		100
79)	Benzidine	0.00	184	0	N.D.		
80)	Pyrene	11.86	202	874070	10245.0421204 ppb		100
82)	Benzylbutyl phthalate	12.48	149	454692	10431.9434473 ppb		100
83)	3,3-Dichlorobenzidine	0.00	252	0	N.D.		
84)	Benzo(a)anthracene	13.16	228	918178	10095.0261232 ppb		100
85)	Chrysene	13.20	228	841524	10217.5150485 ppb		100
86)	bis(2-Ethylhexyl)phthalate	13.08	149	680943	10441.7065006 ppb		100
87)	Di-n-octyl phthalate	13.76	149	1200785	10814.4199882 ppb		100
89)	Benzo(b)fluoranthene	14.31	252	1028177	10047.8727689 ppb		100
90)	Benzo(k)fluoranthene	14.34	252	1003078	10920.5816723 ppb		100
91)	Benzo(a)pyrene	14.65	252	1014485	10575.3185320 ppb		100
92)	Indeno(1,2,3-cd)pyrene	15.94	276	1235110	10500.2341973 ppb		100
93)	Dibenz(a,h)anthracene	15.94	278	1049209	10713.9619218 ppb		100
94)	Benzo(g,h,i)perylene	16.30	276	1035540	10395.1948657 ppb		100

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\111214\1112 04MRL.D Vial: 2
Acq On : 12 Nov 2014 11:42 am Operator: 280
Sample : MRL SVMS 10K PPB 14K07412 Inst : BNAMS11
Misc : 8270 Primary Calibration Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Nov 13 15:35 2014 Quant Results File: S811K12AN.RES

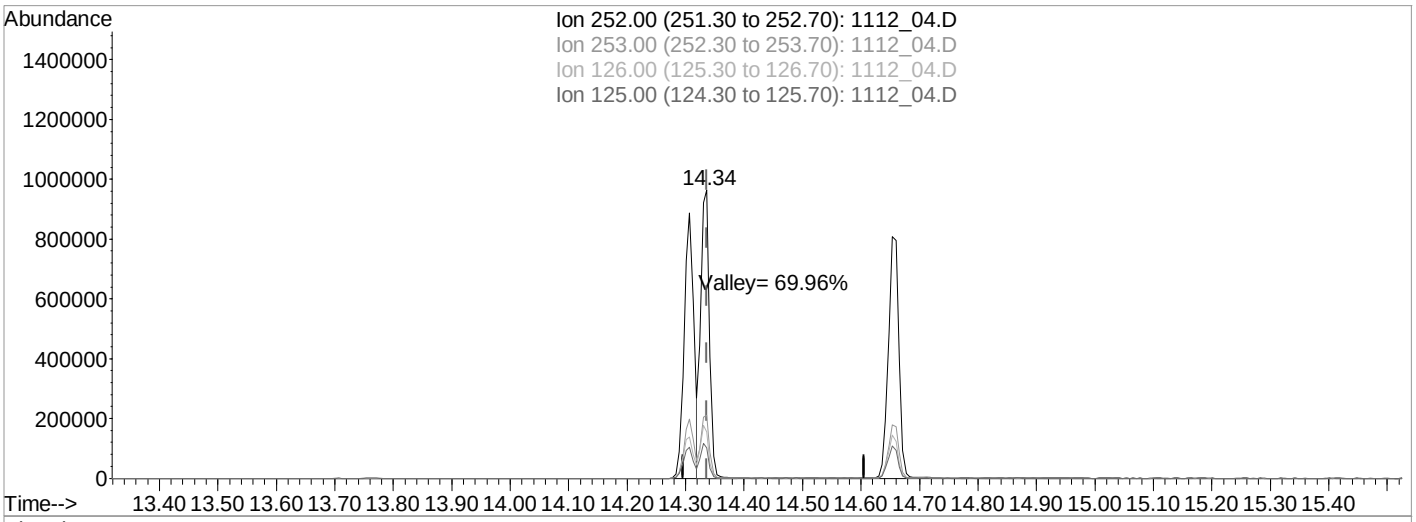
Method : C:\MSDCHEM\1\METHODS\S811K12AN.M (RTE Integrator)
Title : 8270 BNA
Last Update : Thu Nov 13 14:05:28 2014
Response via : Initial Calibration

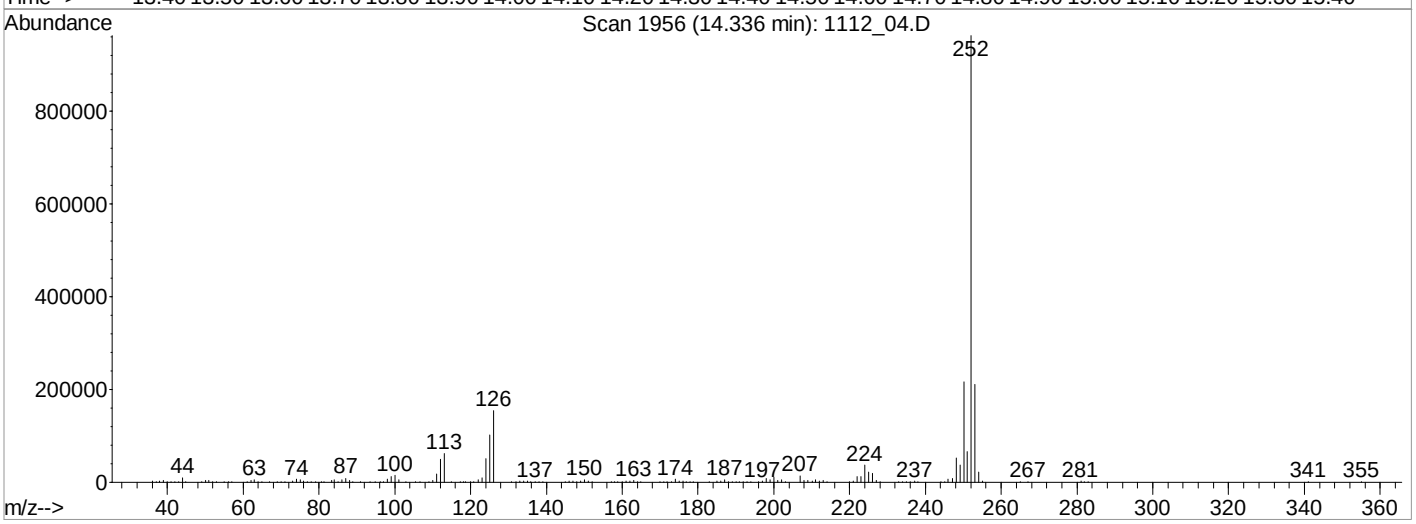


Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\111214\1112 04.D Vial: 2
Acq On : 12 Nov 2014 11:42 am Operator: 280
Sample : MSTD SVMS 10K PPB 14K07412 Inst : BNAMS11
Misc : 8270 Primary Calibration Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Nov 12 19:20 2014 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\S811K12N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Wed Nov 12 19:17:55 2014
Response via : Multiple Level Calibration





TIC: 1112_04.D

(90) Benzo(k)fluoranthene (MT)

14.34min (0.000) 10000.0000000 ppb

Qvalue = 100

response 1003078

Ion	Exp%	Act%
252.00	100	100
253.00	21.90	21.92
126.00	16.00	16.00
125.00	10.50	10.47

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\111214\1112 05MRL.D Vial: 3
Acq On : 12 Nov 2014 12:03 pm Operator: 280
Sample : MRL SVMS 200 PPB 14K07412 Inst : BNAMS11
Misc : 8270 Primary Calibration Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Nov 13 15:39 2014 Quant Results File: S811K12AN.RES

Quant Method : C:\MSDCHEM\1\METHODS\S811K12AN.M (RTE Integrator)
Title : 8270 BNA
Last Update : Thu Nov 13 14:05:28 2014
Response via : Initial Calibration
DataAcq Meth : BNA11A

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	5.48	152	113290	8000.00 ppb	0.00
22) Naphthalene-d8	6.77	136	488269	8000.00 ppb	0.00
40) Acenaphthene-d10	8.65	164	304516	8000.00 ppb	0.00
64) Phenanthrene-d10	10.28	188	543928	8000.00 ppb	0.00
78) Chrysene-d12	13.16	240	712242	8000.00 ppb	-0.02
88) Perylene-d12	14.68	264	856503	8000.00 ppb	-0.04

System Monitoring Compounds					
4) 2-Fluorophenol	4.36	112	4296	213.2735450 ppb	0.01
Spiked Amount 20.000	Range 10 - 74		Recovery = 1066.37%#		
7) Phenol-d5	5.08	99	5790	209.9617910 ppb	0.00
Spiked Amount 20.000	Range 10 - 63		Recovery = 1049.81%#		
23) Nitrobenzene-d5	6.01	82	5610	213.4619416 ppb	0.00
Spiked Amount 10.000	Range 28 - 123		Recovery = 2134.62%#		
44) 2-Fluorobiphenyl	7.90	172	11197	226.1052866 ppb	0.00
Spiked Amount 10.000	Range 35 - 133		Recovery = 2261.05%#		
67) 2,4,6-Tribromophenol	9.51	330	1547	192.3576672 ppb	0.00
Spiked Amount 20.000	Range 22 - 154		Recovery = 961.79%#		
81) p-Terphenyl-d14	11.98	244	17590	211.0482728 ppb	0.00
Spiked Amount 10.000	Range 30 - 148		Recovery = 2110.48%#		

Target Compounds						Qvalue
2) Pyridine	3.47	79	6531	210.4181357 ppb		98
3) N-Nitrosodimethylamine	3.44	42	4331m	240.3408319 ppb		
5) Aniline	5.17	66	3128	214.1295523 ppb		97
6) bis(2-Chloroethyl)ether	5.21	63	4307	222.7171652 ppb		98
8) Phenol	5.10	94	6230	221.3433179 ppb		95
9) Benzaldehyde	5.10	105	55	5.0378349 ppb	#	1
10) 2-Chlorophenol	5.28	128	4709	216.5274005 ppb		94
11) n-Decane	5.30	41	4130m	240.5023817 ppb		
12) 1,3-Dichlorobenzene	5.44	146	5316	223.1029566 ppb		97
13) 1,4-Dichlorobenzene	5.50	146	5575	231.2610493 ppb		93
14) Benzyl Alcohol	5.58	79	4534	213.8639499 ppb		99
15) 1,2-Dichlorobenzene	5.65	146	5063	220.1454855 ppb		94
16) bis(2-Chloroisopropyl)ethe	5.72	121	1617	225.2858763 ppb		94
17) 2-Methylphenol	5.67	108	4450	217.5477911 ppb		93
18) Hexachloroethane	5.98	117	2277	220.5326172 ppb		88
19) N-Nitrosodi-n-propylamine	5.84	70	4242	222.1510478 ppb		98
20) 3&4-Methyl phenol	5.81	107	4847	205.9973638 ppb		96
21) Acetophenone	5.58	105	161	5.1039798 ppb	#	1
24) Nitrobenzene	6.04	77	5966	222.7393201 ppb		94
25) Isophorone	6.27	82	10304	223.3683825 ppb		92
26) 2-Nitrophenol	6.35	139	1932	179.5280097 ppb	#	77
27) 2,4-Dimethylphenol	6.36	107	5039	218.4313502 ppb		96
28) bis(2-Chlorethoxy)methane	6.47	93	6533	226.8336016 ppb		93
29) 2,4-Dichlorophenol	6.59	162	3825	216.3574243 ppb		94
30) Benzoic Acid	6.36	105	218	687.1445100 ppb	#	1
31) 1,2,4-Trichlorobenzene	6.70	180	4584	231.3052164 ppb		99
32) Naphthalene	6.78	128	19228	270.6620546 ppb		99
33) 4-Chloroaniline	6.82	65	2337	228.0927866 ppb		91
34) Hexachloro-1,3-butadiene	6.90	225	2515	222.5972943 ppb		92
35) Caprolactam	7.30	113	60	9.4089388 ppb	#	1
36) 4-Chloro-3-methylphenol	7.30	107	4344	206.8475106 ppb		100
37) 2-Methylnaphthalene	7.52	142	10986	231.5800765 ppb		99
38) 1-Methylnaphthalene	7.62	142	9857	224.6998746 ppb		99

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\111214\1112 05MRL.D Vial: 3
Acq On : 12 Nov 2014 12:03 pm Operator: 280
Sample : MRL SVMS 200 PPB 14K07412 Inst : BNAMS11
Misc : 8270 Primary Calibration Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Nov 13 15:39 2014 Quant Results File: S811K12AN.RES

Quant Method : C:\MSDCHEM\1\METHODS\S811K12AN.M (RTE Integrator)
Title : 8270 BNA
Last Update : Thu Nov 13 14:05:28 2014
Response via : Initial Calibration
DataAcq Meth : BNA11A

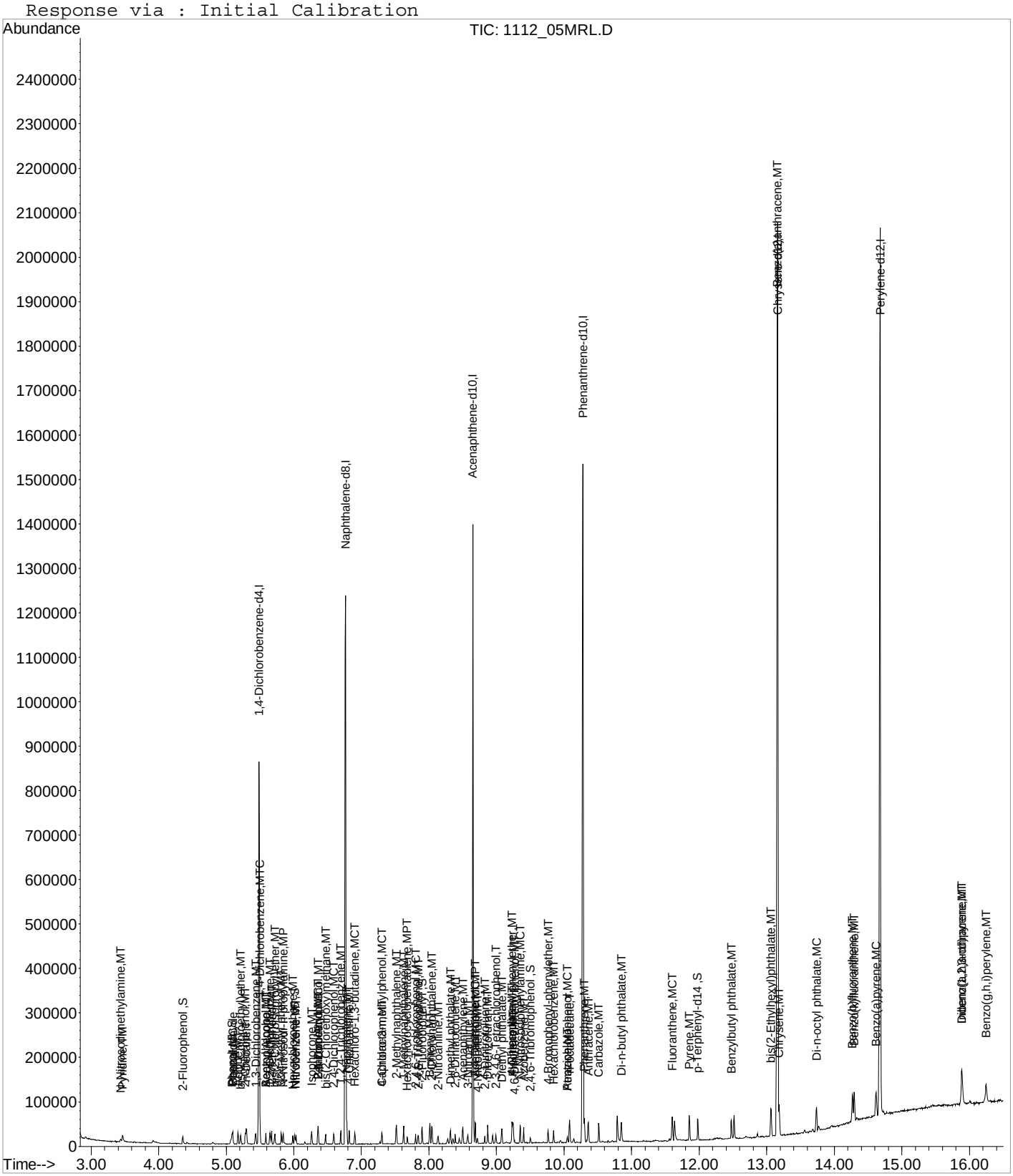
	Compound	R.T.	QIon	Response	Conc Unit		Qvalue
39)	1,2,4,5-Tetrachlorobenzene	0.00	216	0	N.D.		
41)	Hexachlorocyclopentadiene	7.68	237	2439	195.0829717 ppb		97
42)	2,4,6-Trichlorophenol	7.80	196	2377	188.6684049 ppb		93
43)	2,4,5-Trichlorophenol	7.84	196	2735	198.5859929 ppb		95
45)	Biphenyl	8.01	154	12654	223.7510510 ppb		98
46)	2-Chloronaphthalene	8.04	162	10178	231.2466229 ppb		96
47)	2-Nitroaniline	8.14	138	2454	174.6571143 ppb		92
48)	Acenaphthylene	8.50	152	14975	219.0858146 ppb		98
49)	Dimethyl phthalate	8.32	163	10737	223.9397663 ppb		96
50)	2,6-Dinitrotoluene	8.39	165	1915	179.3972966 ppb		95
51)	3-Nitroaniline	8.58	138	2308	180.8967973 ppb		99
52)	Acenaphthene	8.69	153	10485	229.5859717 ppb		97
53)	2,4-Dinitrophenol	8.68	184	472	2191.1909632 ppb	#	1
54)	Dibenzofuran	8.87	168	14201	229.9307446 ppb		100
55)	2,4-Dinitrotoluene	8.82	165	2113	151.4013399 ppb		89
56)	2,3,4,6-Tetrachlorophenol	8.99	232	2046	215.3165008 ppb		95
57)	4-Nitrophenol	8.72	139	1422	146.1434399 ppb		93
58)	Fluorene	9.25	166	11535	224.0854471 ppb		92
59)	4-Chlorophenyl-phenylether	9.23	204	5096	212.4234213 ppb		92
60)	Diethyl phthalate	9.08	149	11141	215.0812353 ppb		95
61)	4-Nitroaniline	9.24	138	2227	186.4802914 ppb		94
62)	Azobenzene	9.40	77	12930	206.5906650 ppb		98
63)	Atrazine	10.05	200	251	18.5473188 ppb	#	3
65)	4,6-Dinitro-2-methylphenol	9.27	198	731	1143.1025098 ppb		88
66)	N-Nitrosodiphenylamine	9.35	169	9721	225.0479399 ppb		98
68)	4-Bromophenyl-phenylether	9.77	248	3375	221.7626235 ppb		97
69)	Hexachlorobenzene	9.85	284	4041	222.7364442 ppb		88
70)	n-octadecane	10.08	55	2418	223.0247315 ppb		93
71)	Pentachlorophenol	10.05	266	1722	174.9538793 ppb		98
72)	Phenanthrene	10.30	178	18515	237.2427861 ppb		98
73)	Anthracene	10.36	178	17646	223.5148490 ppb		99
74)	Carbazole	10.51	167	17718	233.1803279 ppb		97
75)	Di-n-butyl phthalate	10.85	149	22019	218.5314073 ppb		99
76)	2-nitrodiphenylamine	0.00	167	0	N.D.		
77)	Fluoranthene	11.60	202	21605	228.6727012 ppb		97
79)	Benzidine	0.00	184	0	N.D.		
80)	Pyrene	11.85	202	22659	214.8774681 ppb		98
82)	Benzylbutyl phthalate	12.48	149	10658	197.8364141 ppb		93
83)	3,3-Dichlorobenzidine	0.00	252	0	N.D.		
84)	Benzo(a)anthracene	13.15	228	26313	234.0634139 ppb		95
85)	Chrysene	13.18	228	23342	229.2975684 ppb		98
86)	bis(2-Ethylhexyl)phthalate	13.07	149	18849	233.8469130 ppb		99
87)	Di-n-octyl phthalate	13.74	149	28432	207.1705376 ppb		100
89)	Benzo(b)fluoranthene	14.27	252	27090	217.9502639 ppb		98
90)	Benzo(k)fluoranthene	14.29	252	25728	230.5999689 ppb		99
91)	Benzo(a)pyrene	14.62	252	24865	213.3921516 ppb		98
92)	Indeno(1,2,3-cd)pyrene	15.89	276	30659	214.5820968 ppb		98
93)	Dibenz(a,h)anthracene	15.88	278	24929	209.5728891 ppb		98
94)	Benzo(g,h,i)perylene	16.25	276	25791	213.1454611 ppb		98

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\111214\1112 05MRL.D Vial: 3
Acq On : 12 Nov 2014 12:03 pm Operator: 280
Sample : MRL SVMS 200 PPB 14K07412 Inst : BNAMS11
Misc : 8270 Primary Calibration Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Nov 13 15:39 2014 Quant Results File: S811K12AN.RES

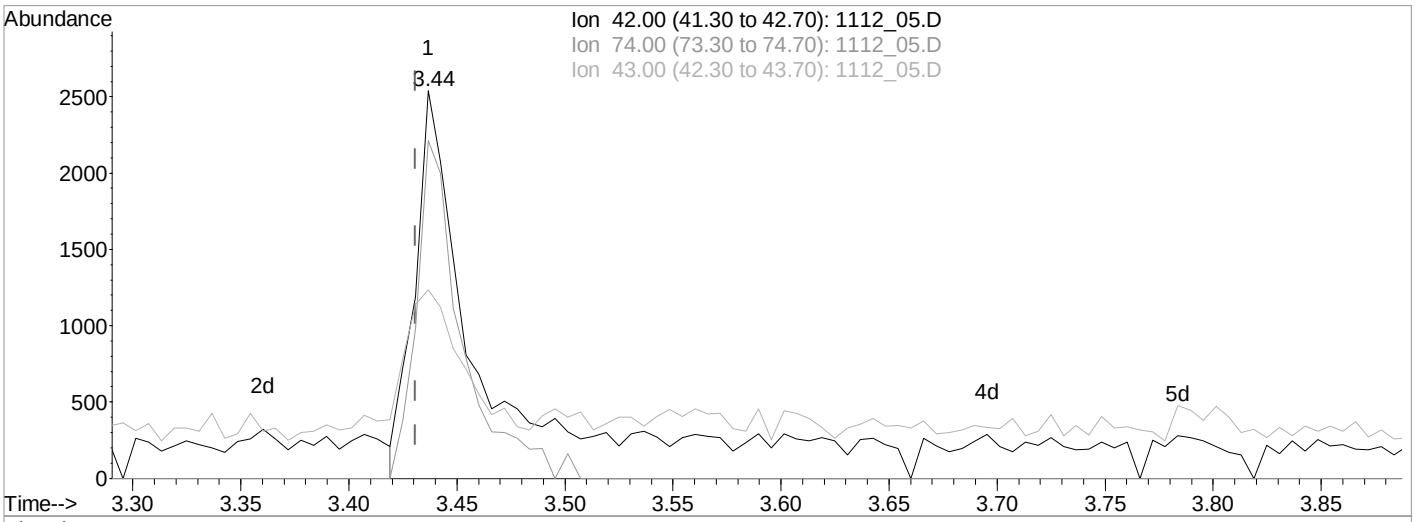
Method : C:\MSDCHEM\1\METHODS\S811K12AN.M (RTE Integrator)
Title : 8270 BNA
Last Update : Thu Nov 13 14:05:28 2014
Response via : Initial Calibration

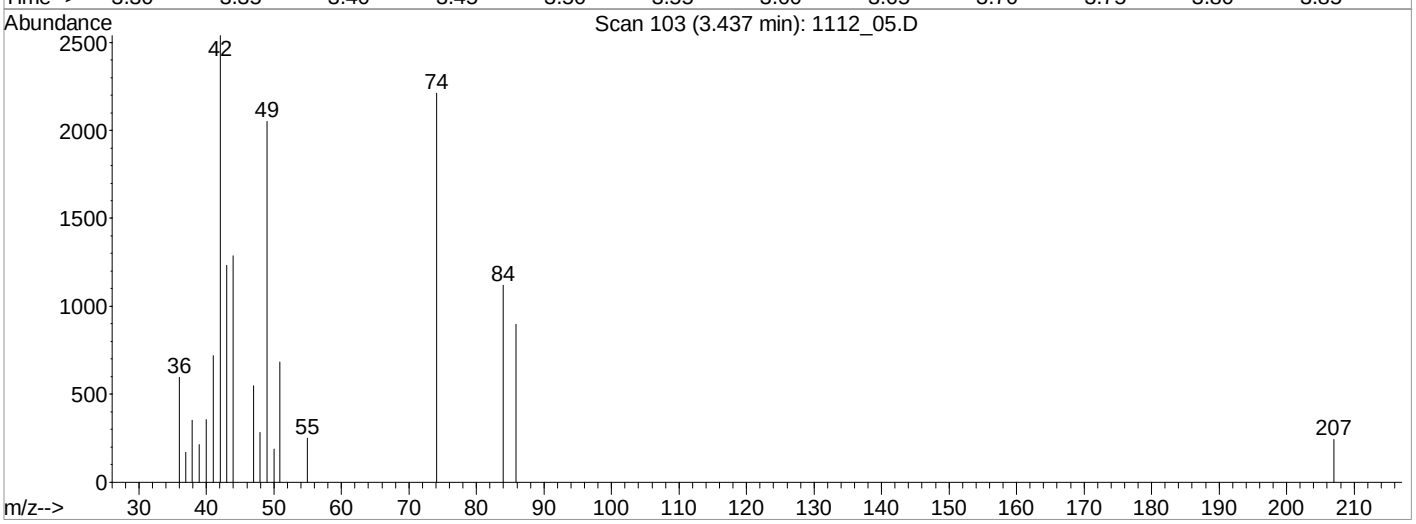


Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\111214\1112 05.D Vial: 3
Acq On : 12 Nov 2014 12:03 pm Operator: 280
Sample : STD SVMS 200 PPB 14K07412 Inst : BNAMS11
Misc : 8270 Primary Calibration Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Nov 12 19:23 2014 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\S811K12N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Wed Nov 12 19:17:55 2014
Response via : Multiple Level Calibration





TIC: 1112_05.D

(3) N-Nitrosodimethylamine (MT)

3.44min (+0.006) 397.3483682 ppb

Qvalue = 62

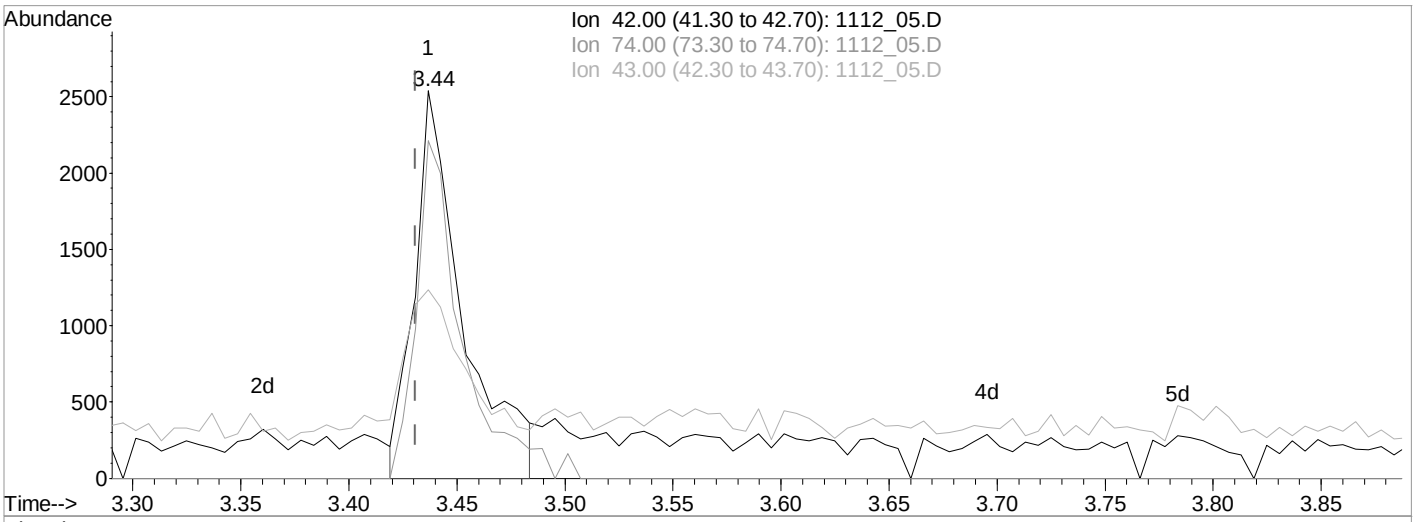
response 6629

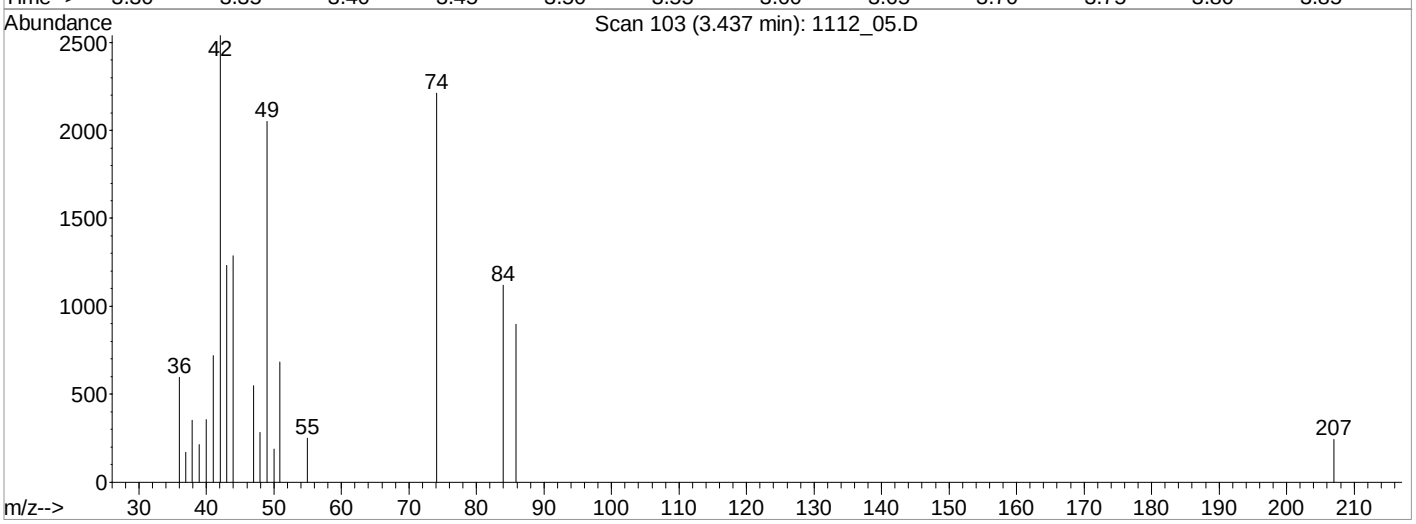
Ion	Exp%	Act%
42.00	100	100
74.00	103.40	49.81#
43.00	45.10	41.95
0.00	0.00	0.00

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\111214\1112 05.D Vial: 3
Acq On : 12 Nov 2014 12:03 pm Operator: 280
Sample : STD SVMS 200 PPB 14K07412 Inst : BNAMS11
Misc : 8270 Primary Calibration Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Nov 12 19:23 2014 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\S811K12N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Wed Nov 12 19:17:55 2014
Response via : Multiple Level Calibration





TIC: 1112_05.D

(3) N-Nitrosodimethylamine (MT)

3.44min (+0.006) 237.6657535 ppb m

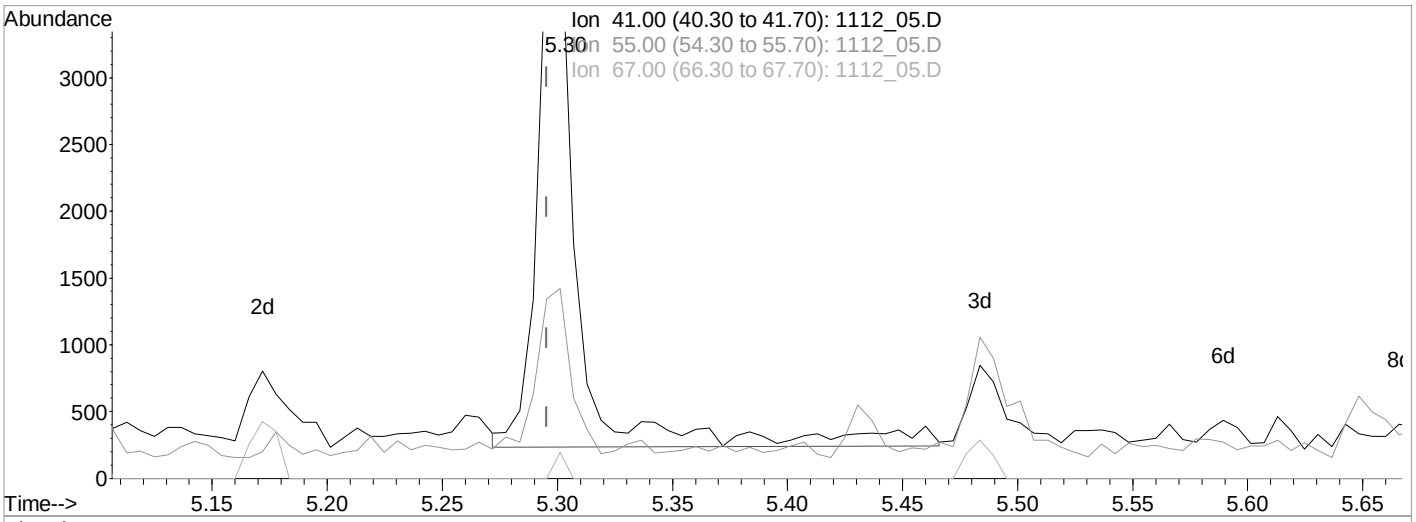
response 3965

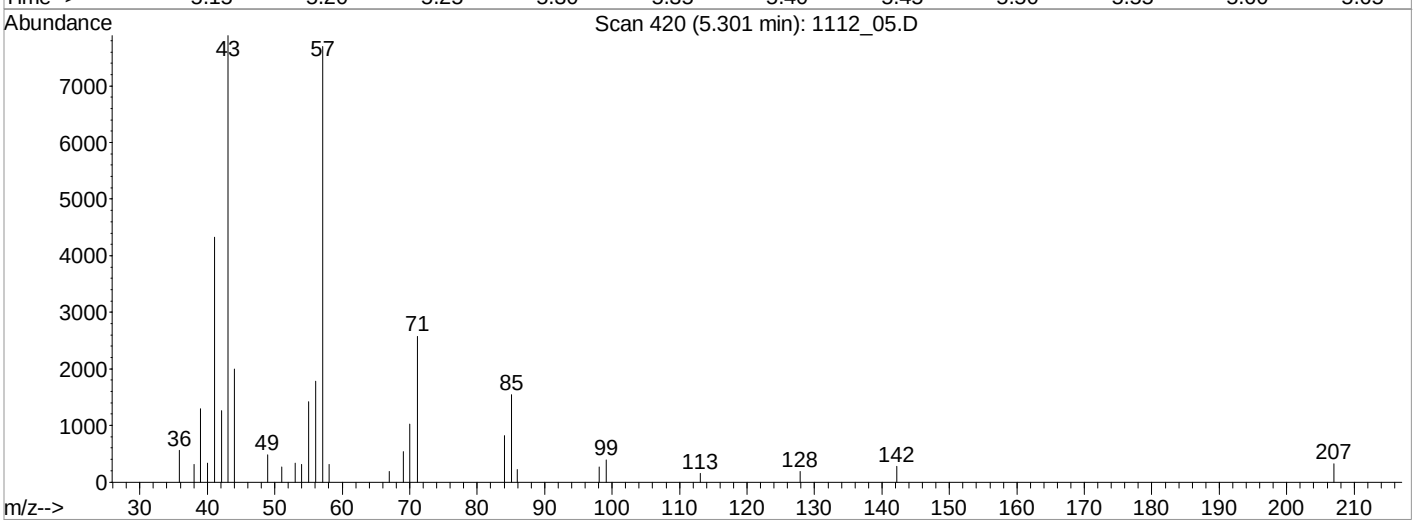
Ion	Exp%	Act%
42.00	100	100
74.00	103.40	83.28#
43.00	45.10	70.14#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\111214\1112 05.D Vial: 3
Acq On : 12 Nov 2014 12:03 pm Operator: 280
Sample : STD SVMS 200 PPB 14K07412 Inst : BNAMS11
Misc : 8270 Primary Calibration Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Nov 12 19:24 2014 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\S811K12N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Wed Nov 12 19:17:55 2014
Response via : Multiple Level Calibration





TIC: 1112_05.D

(11) n-Decane (T)

5.30min (+0.006) 310.5213201 ppb

Qvalue = 99

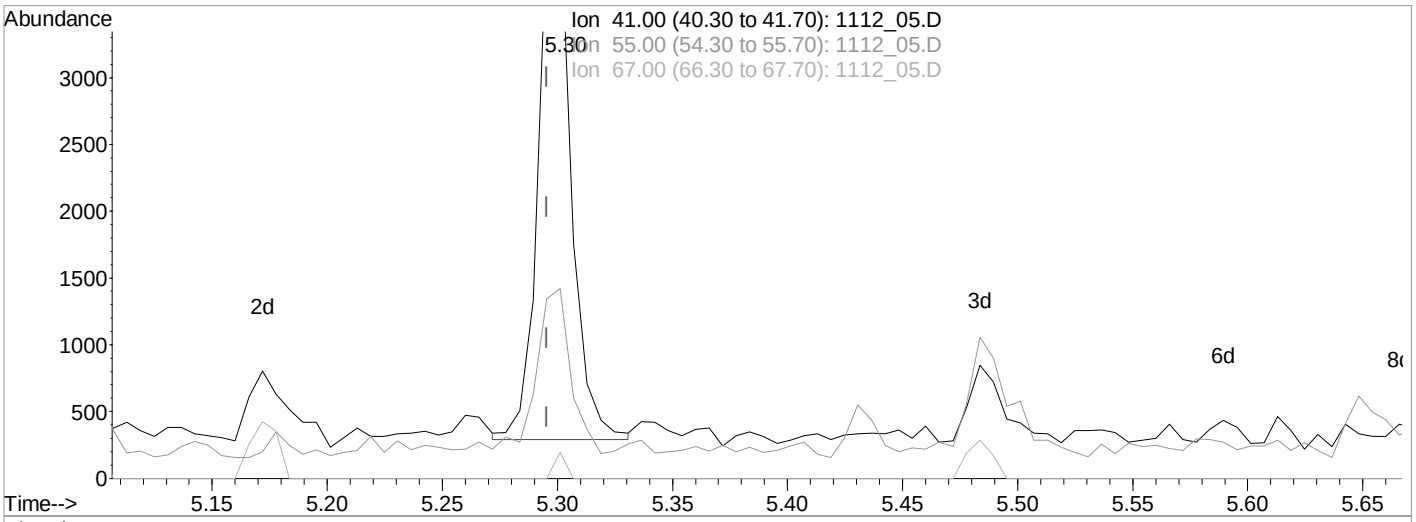
response 4944

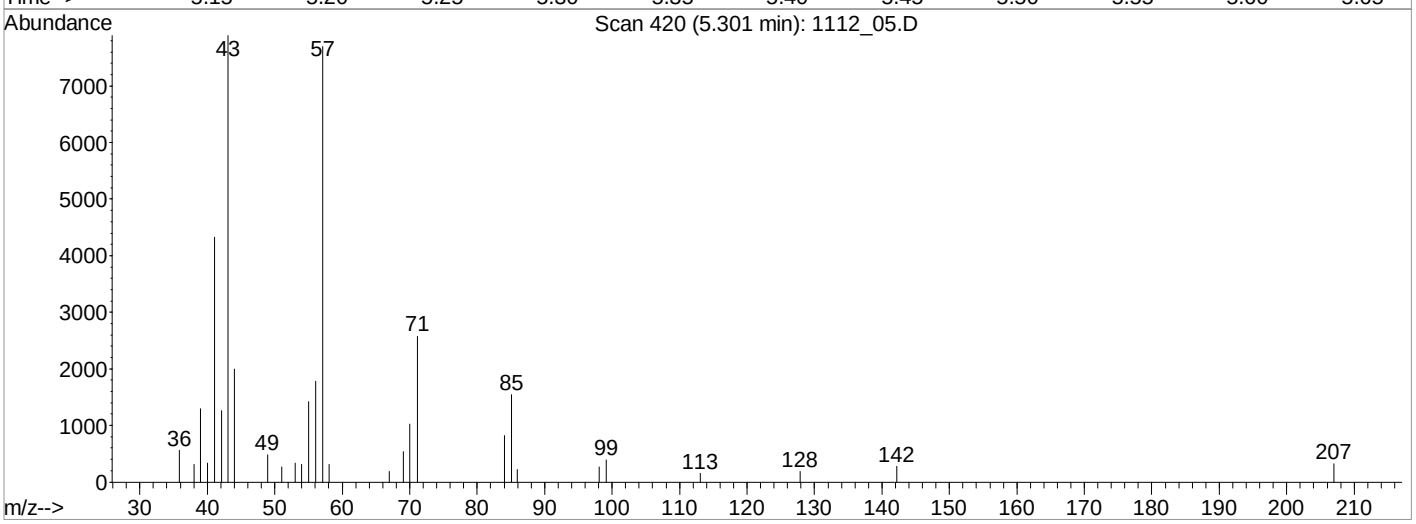
Ion	Exp%	Act%
41.00	100	100
55.00	33.10	33.78
67.00	2.50	1.38#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\111214\1112 05.D Vial: 3
Acq On : 12 Nov 2014 12:03 pm Operator: 280
Sample : STD SVMS 200 PPB 14K07412 Inst : BNAMS11
Misc : 8270 Primary Calibration Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Nov 12 19:24 2014 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\S811K12N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Wed Nov 12 19:17:55 2014
Response via : Multiple Level Calibration





TIC: 1112_05.D

(11) n-Decane (T)

5.30min (+0.006) 251.1052261 ppb m

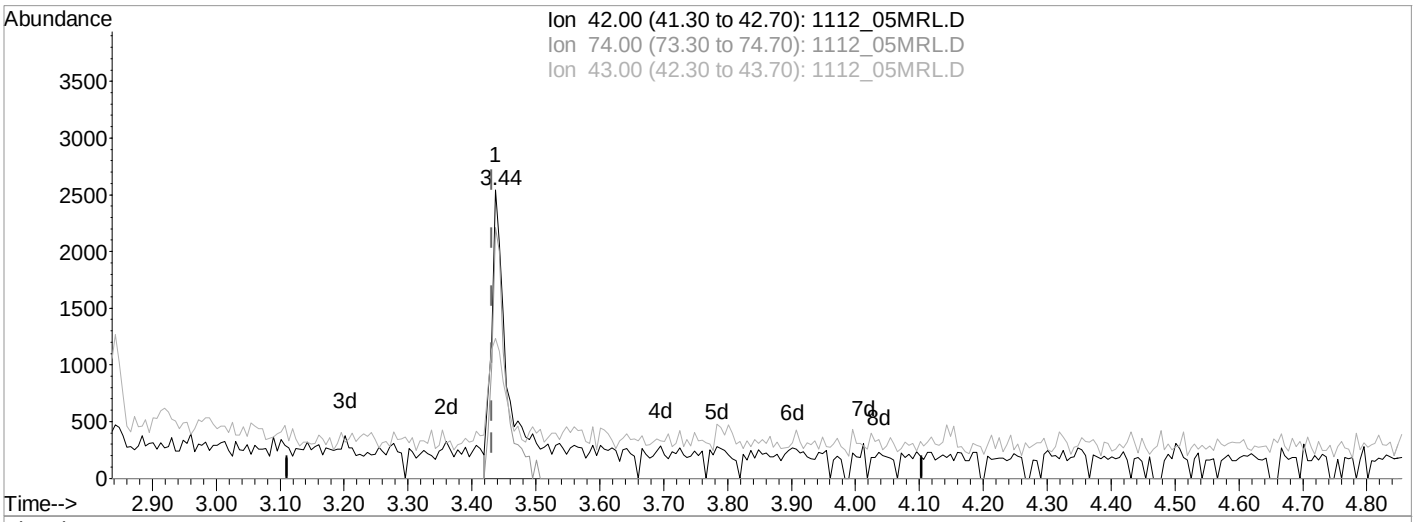
response 3998

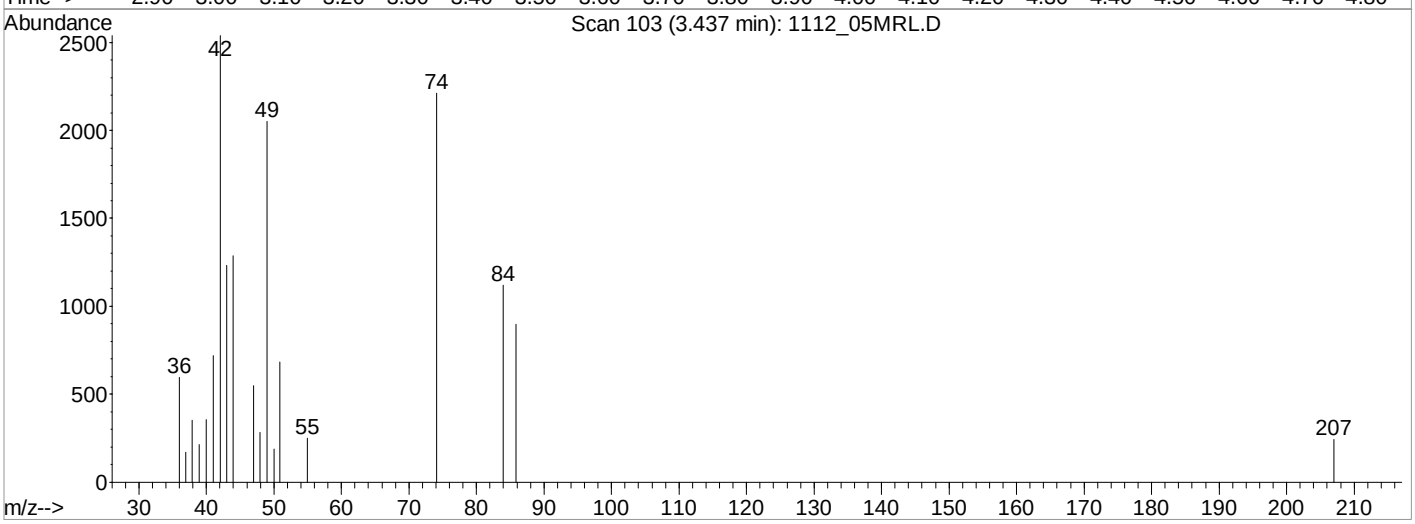
Ion	Exp%	Act%
41.00	100	100
55.00	33.10	41.77#
67.00	2.50	1.70#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\111214\1112 05MRL.D Vial: 3
Acq On : 12 Nov 2014 12:03 pm Operator: 280
Sample : MRL SVMS 200 PPB 14K07412 Inst : BNAMS11
Misc : 8270 Primary Calibration Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Nov 12 21:00 2014 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\S811K12N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Wed Nov 12 20:49:50 2014
Response via : Multiple Level Calibration





TIC: 1112_05MRL.D

(3) N-Nitrosodimethylamine (MT)

3.44min (+0.006) 367.8640902 ppb

Qvalue = 62

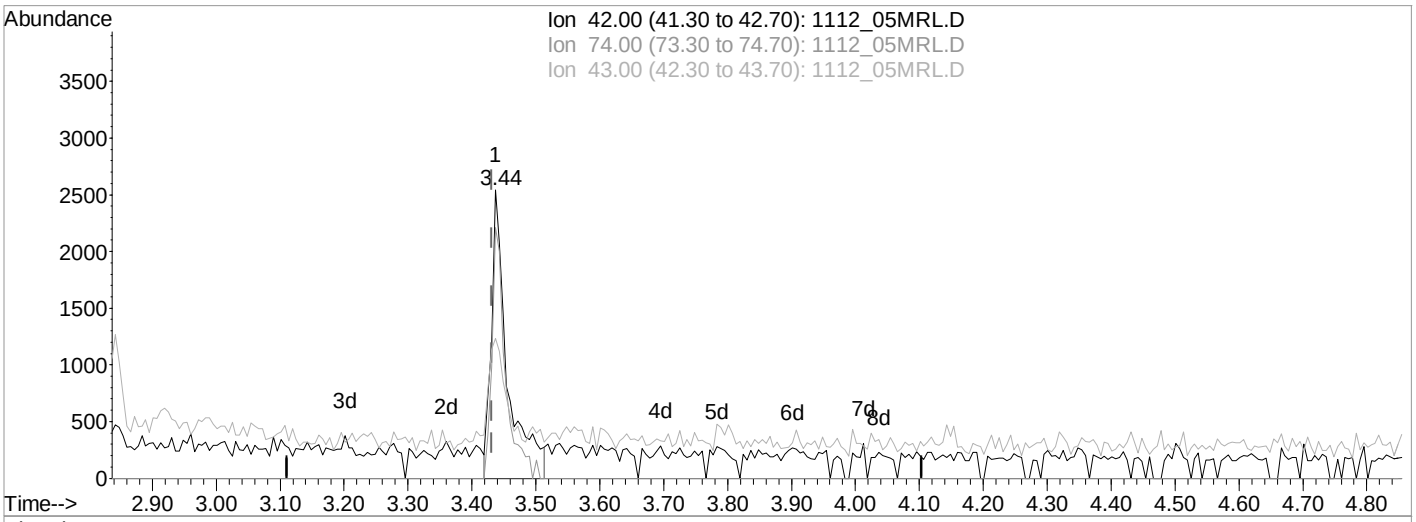
response 6629

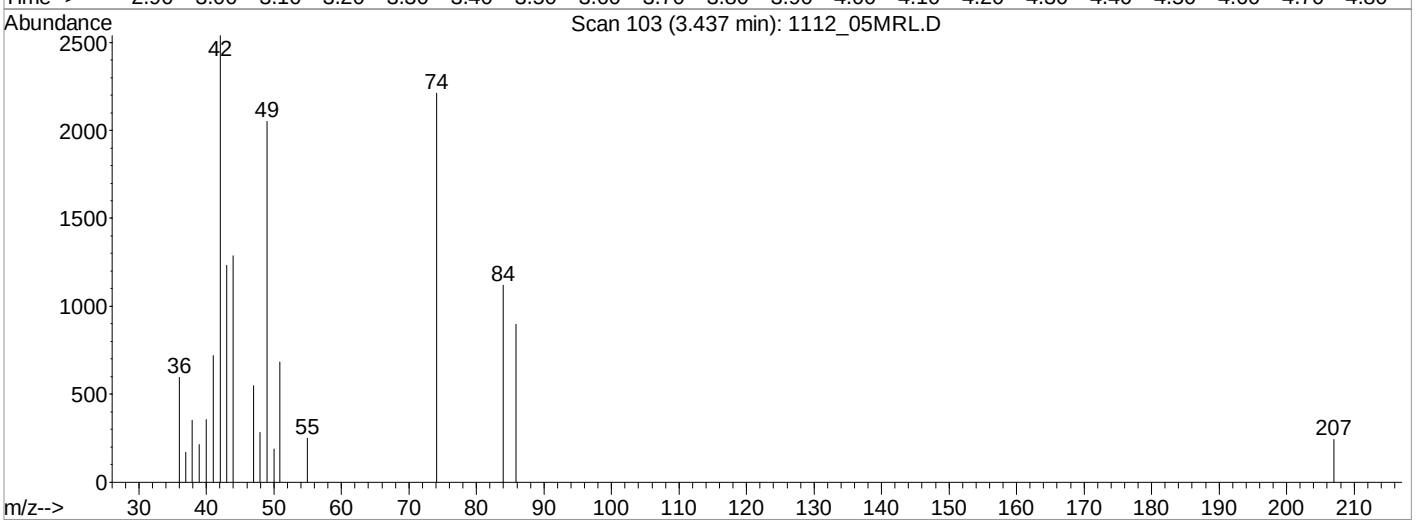
Ion	Exp%	Act%
42.00	100	100
74.00	103.40	49.81#
43.00	45.10	41.95
0.00	0.00	0.00

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\111214\1112 05MRL.D Vial: 3
Acq On : 12 Nov 2014 12:03 pm Operator: 280
Sample : MRL SVMS 200 PPB 14K07412 Inst : BNAMS11
Misc : 8270 Primary Calibration Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Nov 12 21:10 2014 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\S811K12N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Wed Nov 12 20:49:50 2014
Response via : Multiple Level Calibration





TIC: 1112_05MRL.D

(3) N-Nitrosodimethylamine (MT)

3.44min (+0.006) 250.7180509 ppb m

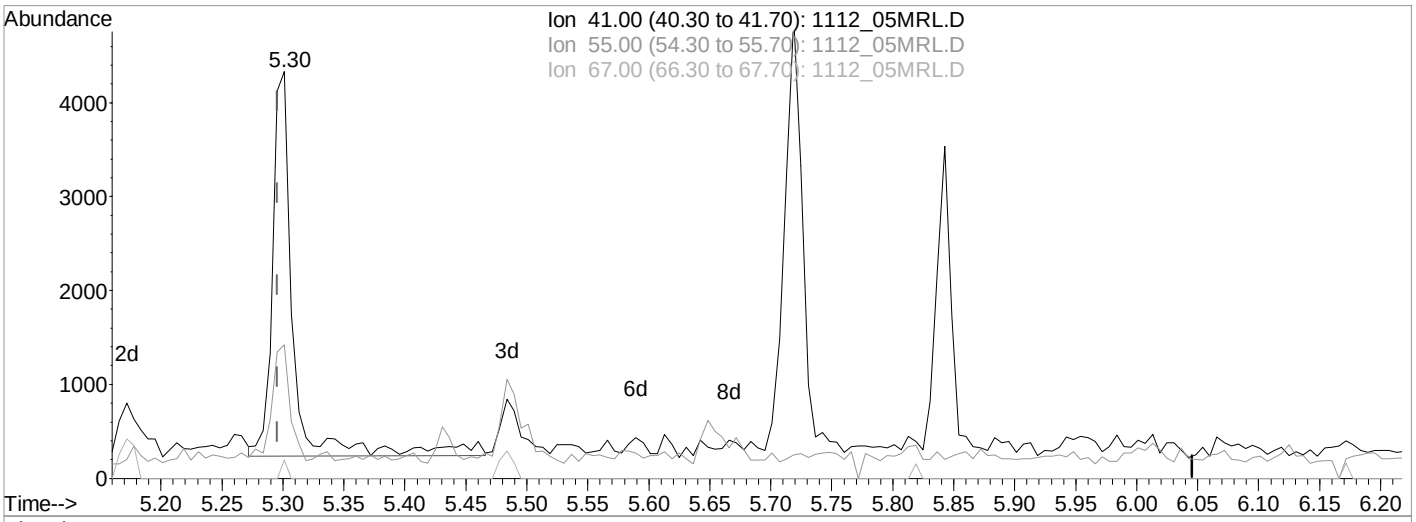
response 4518

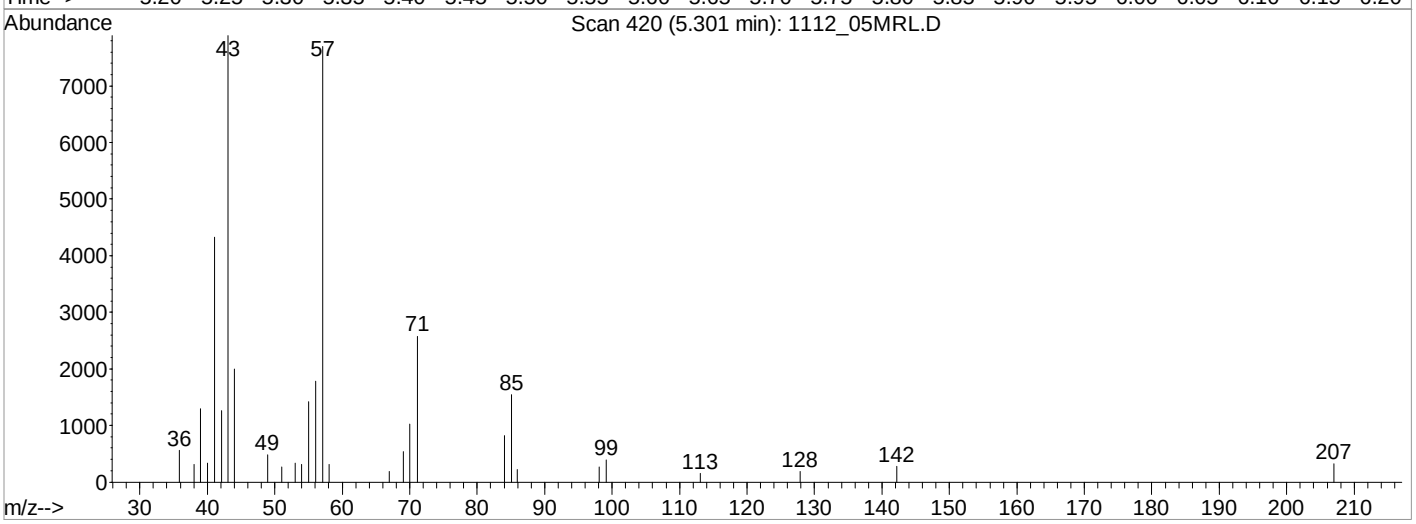
Ion	Exp%	Act%
42.00	100	100
74.00	103.40	73.09#
43.00	45.10	61.55
0.00	0.00	0.00

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\111214\1112 05MRL.D Vial: 3
Acq On : 12 Nov 2014 12:03 pm Operator: 280
Sample : MRL SVMS 200 PPB 14K07412 Inst : BNAMS11
Misc : 8270 Primary Calibration Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Nov 12 21:10 2014 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\S811K12N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Wed Nov 12 20:49:50 2014
Response via : Multiple Level Calibration





TIC: 1112_05MRL.D

(11) n-Decane (T)

5.30min (+0.006) 287.9040617 ppb

Qvalue = 99

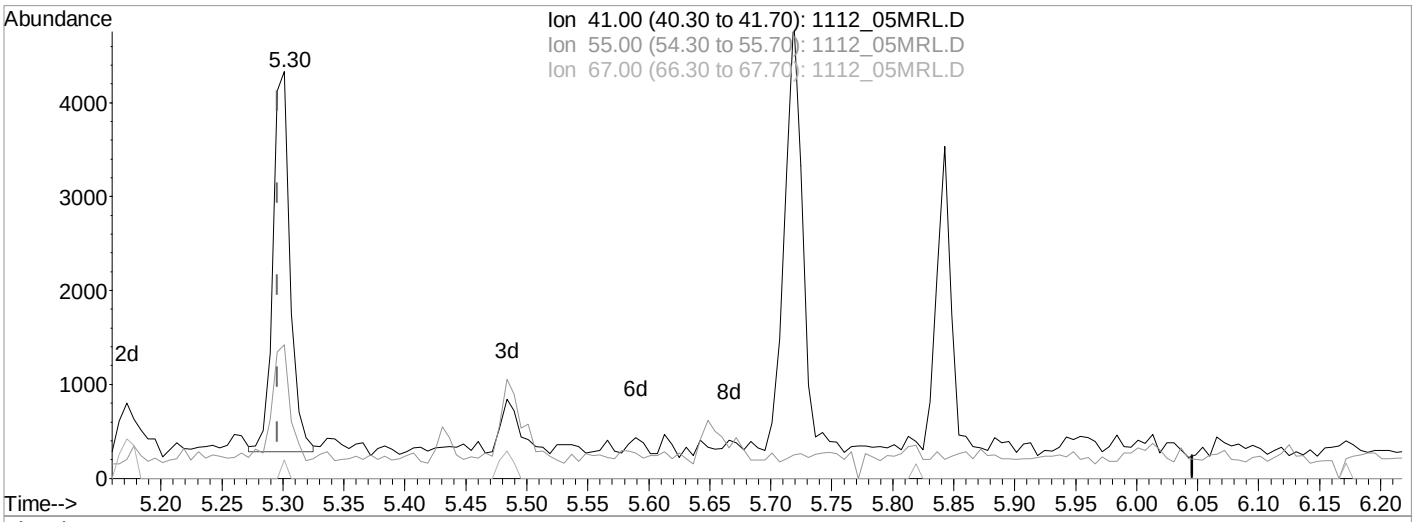
response 4944

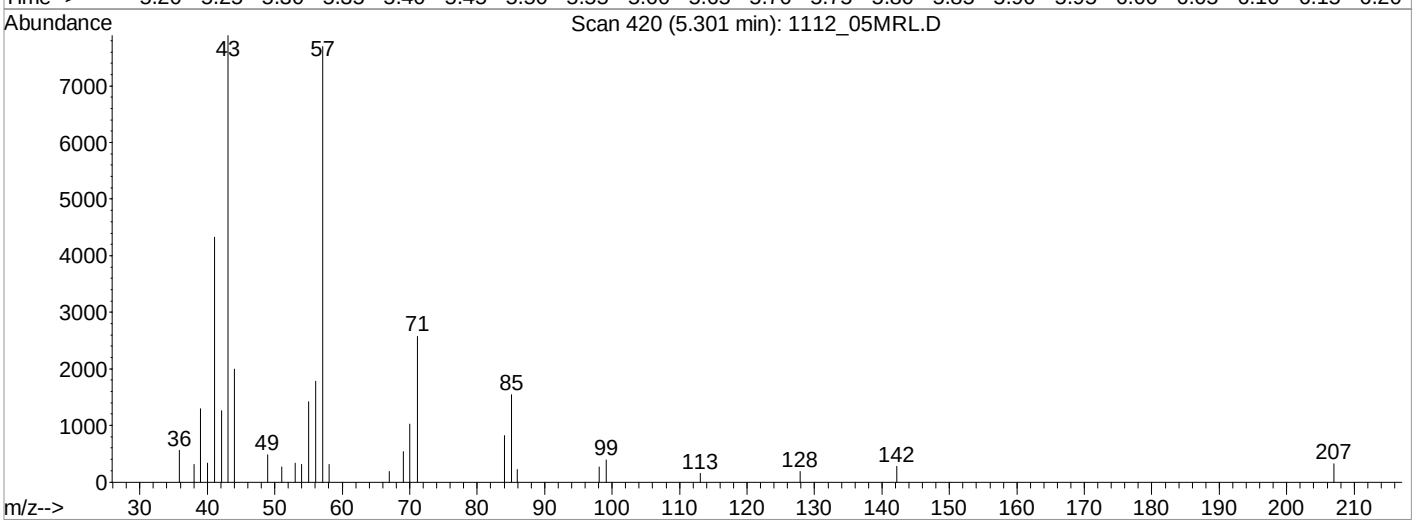
Ion	Exp%	Act%
41.00	100	100
55.00	33.10	33.78
67.00	2.50	1.38#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\111214\1112 05MRL.D Vial: 3
Acq On : 12 Nov 2014 12:03 pm Operator: 280
Sample : MRL SVMS 200 PPB 14K07412 Inst : BNAMS11
Misc : 8270 Primary Calibration Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Nov 12 21:11 2014 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\S811K12N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Wed Nov 12 20:49:50 2014
Response via : Multiple Level Calibration





TIC: 1112_05MRL.D

(11) n-Decane (T)

5.30min (+0.006) 232.7573897 ppb m

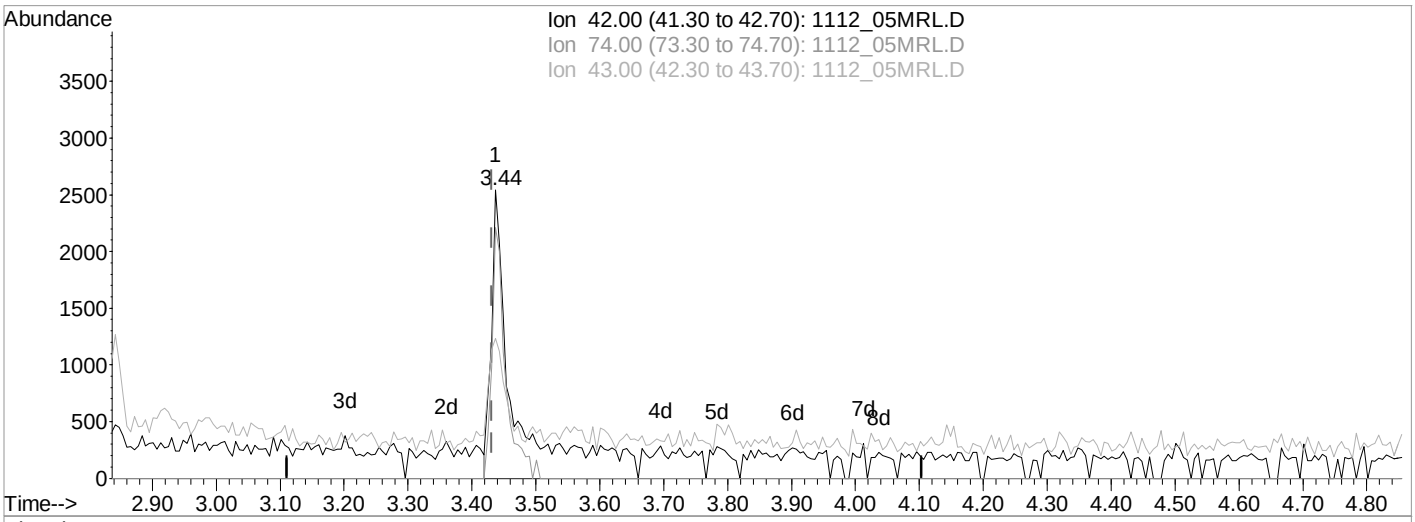
response 3997

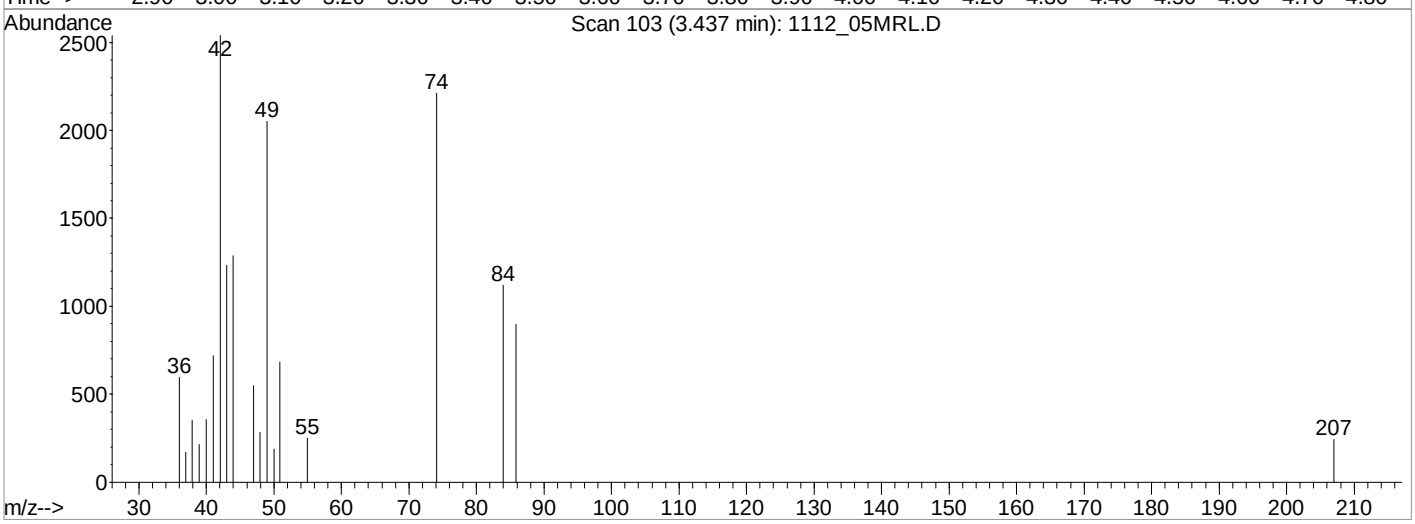
Ion	Exp%	Act%
41.00	100	100
55.00	33.10	41.78#
67.00	2.50	1.70#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\111214\1112 05MRL.D Vial: 3
Acq On : 12 Nov 2014 12:03 pm Operator: 280
Sample : MRL SVMS 200 PPB 14K07412 Inst : BNAMS11
Misc : 8270 Primary Calibration Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Nov 13 14:14 2014 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\S811K12N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Thu Nov 13 14:05:28 2014
Response via : Multiple Level Calibration





TIC: 1112_05MRL.D

(3) N-Nitrosodimethylamine (MT)

3.44min (+0.006) 367.8640902 ppb

Qvalue = 62

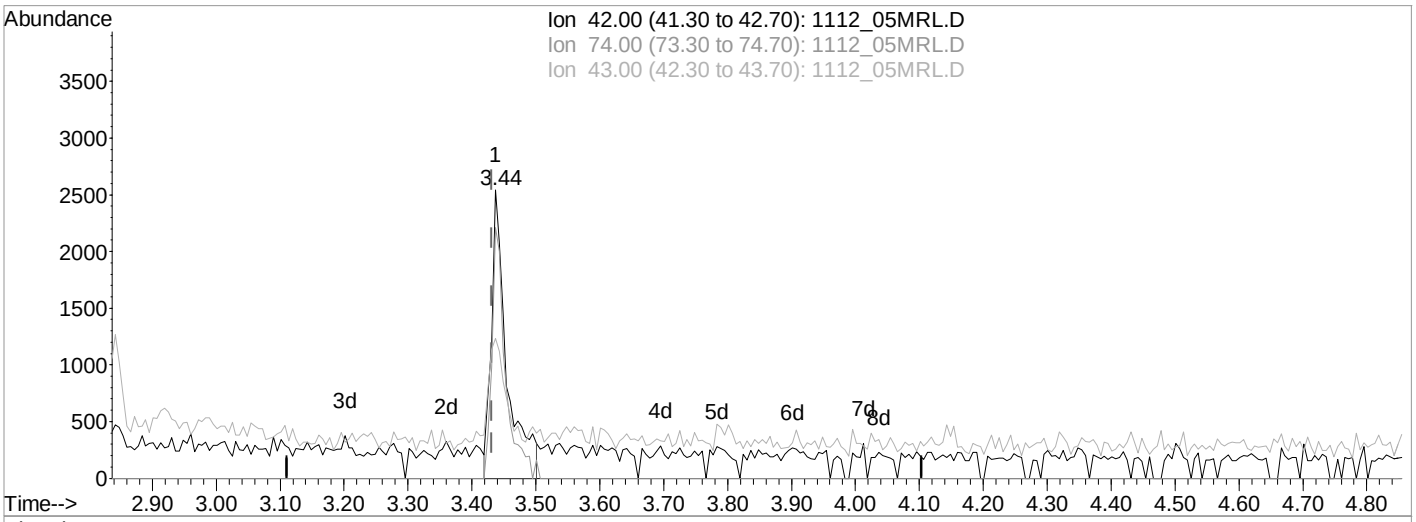
response 6629

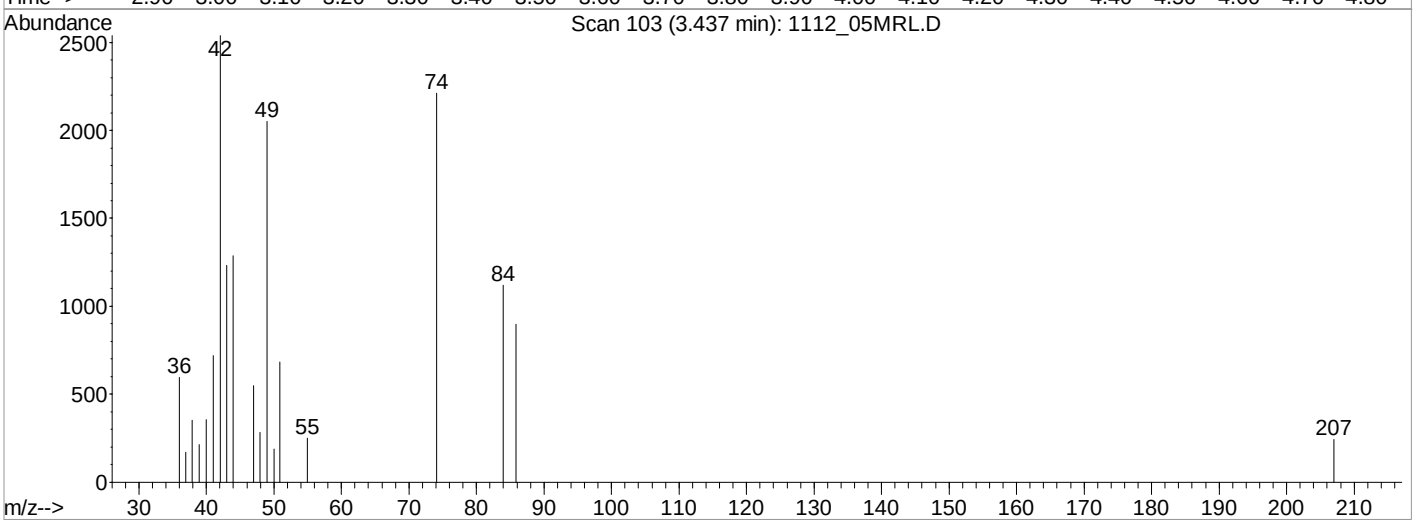
Ion	Exp%	Act%
42.00	100	100
74.00	103.40	49.81#
43.00	45.10	41.95
0.00	0.00	0.00

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\111214\1112 05MRL.D Vial: 3
Acq On : 12 Nov 2014 12:03 pm Operator: 280
Sample : MRL SVMS 200 PPB 14K07412 Inst : BNAMS11
Misc : 8270 Primary Calibration Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Nov 13 14:49 2014 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\S811K12N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Thu Nov 13 14:05:28 2014
Response via : Multiple Level Calibration





TIC: 1112_05MRL.D

(3) N-Nitrosodimethylamine (MT)

3.44min (+0.006) 240.3408319 ppb m

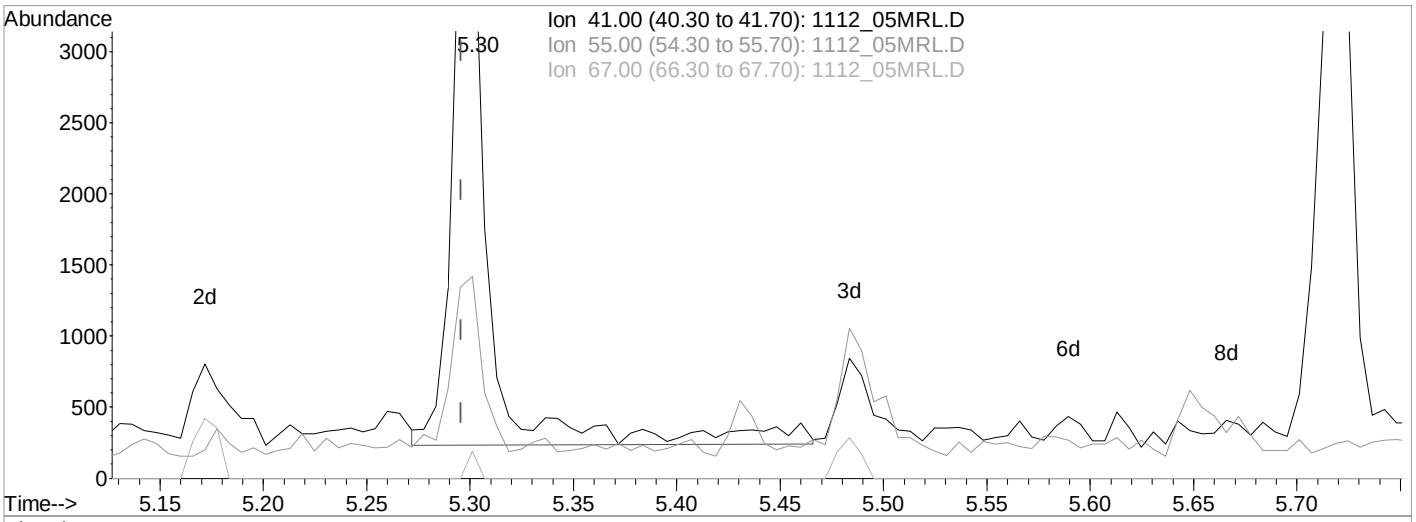
response 4331

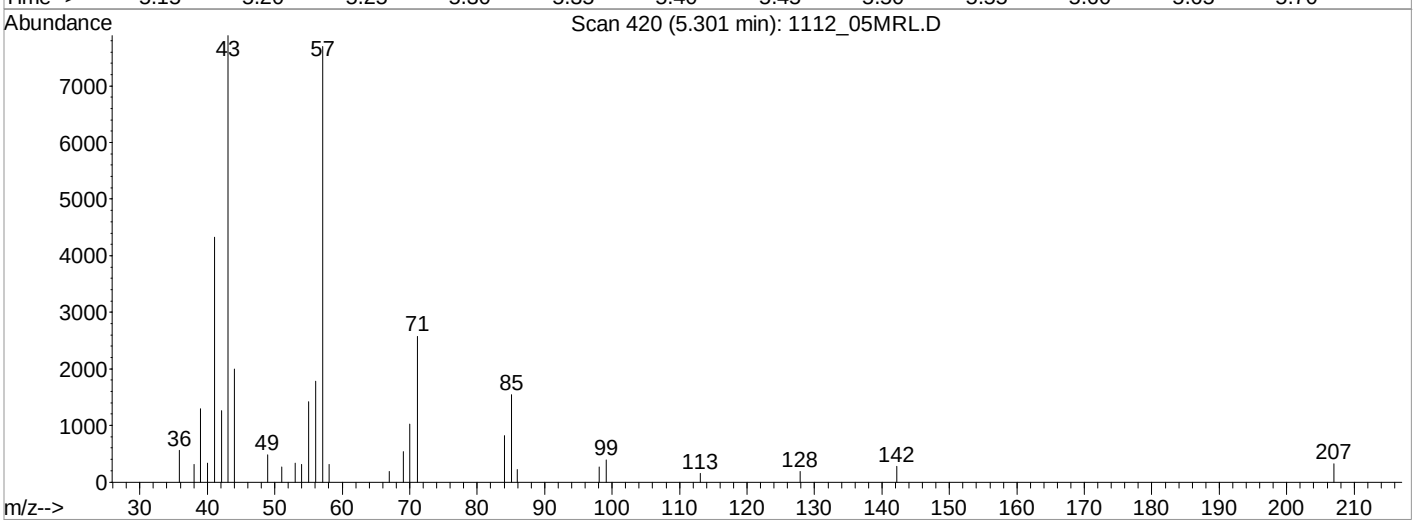
Ion	Exp%	Act%
42.00	100	100
74.00	103.40	76.24#
43.00	45.10	64.21
0.00	0.00	0.00

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\111214\1112 05MRL.D Vial: 3
Acq On : 12 Nov 2014 12:03 pm Operator: 280
Sample : MRL SVMS 200 PPB 14K07412 Inst : BNAMS11
Misc : 8270 Primary Calibration Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Nov 13 14:49 2014 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\S811K12N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Thu Nov 13 14:05:28 2014
Response via : Multiple Level Calibration





TIC: 1112_05MRL.D

(11) n-Decane (T)

5.30min (+0.006) 287.9040617 ppb

Qvalue = 99

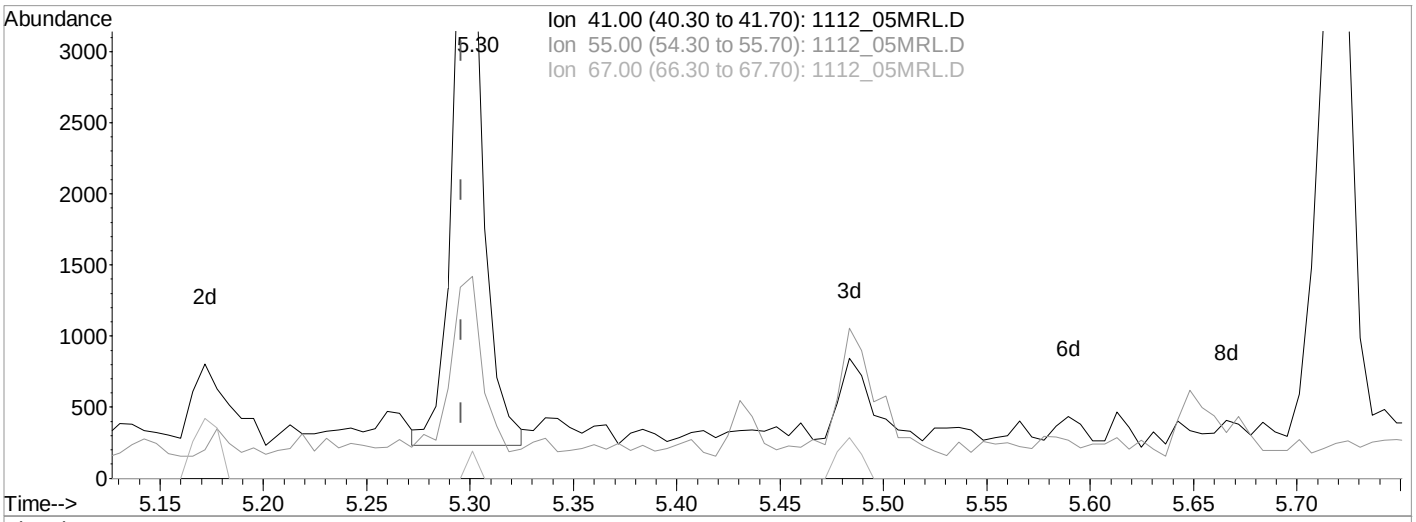
response 4944

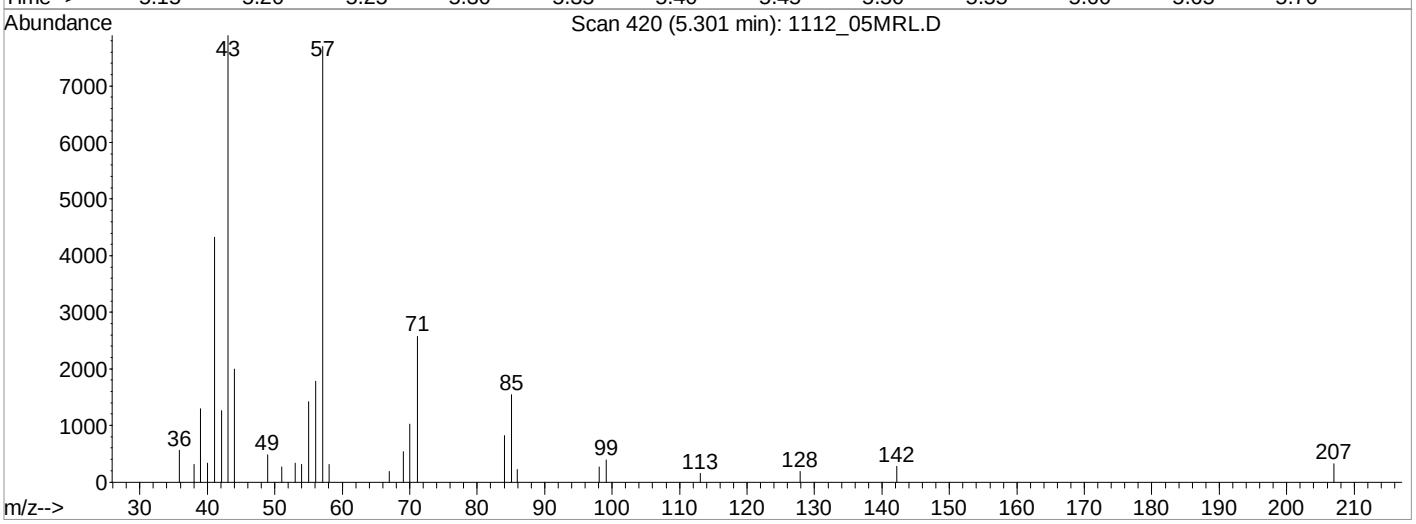
Ion	Exp%	Act%
41.00	100	100
55.00	33.10	33.78
67.00	2.50	1.38#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\111214\1112 05MRL.D Vial: 3
Acq On : 12 Nov 2014 12:03 pm Operator: 280
Sample : MRL SVMS 200 PPB 14K07412 Inst : BNAMS11
Misc : 8270 Primary Calibration Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Nov 13 14:50 2014 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\S811K12N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Thu Nov 13 14:05:28 2014
Response via : Multiple Level Calibration





TIC: 1112_05MRL.D

(11) n-Decane (T)

5.30min (+0.006) 242.1911393 ppb m

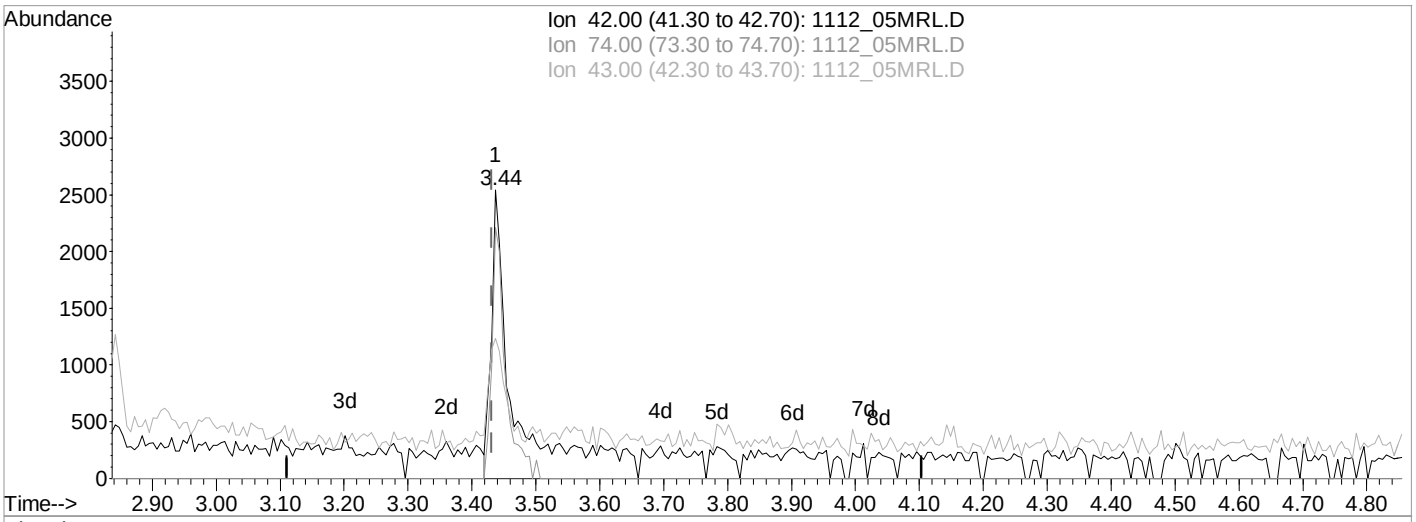
response 4159

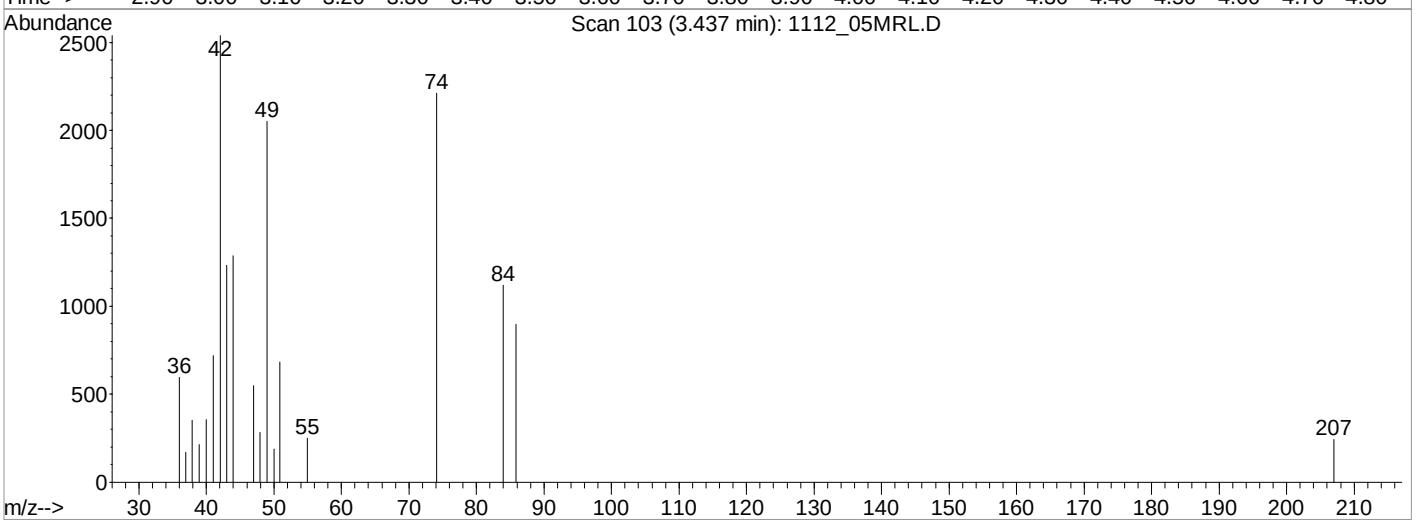
Ion	Exp%	Act%
41.00	100	100
55.00	33.10	40.15#
67.00	2.50	1.64#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\111214\1112 05MRL.D Vial: 3
Acq On : 12 Nov 2014 12:03 pm Operator: 280
Sample : MRL SVMS 200 PPB 14K07412 Inst : BNAMS11
Misc : 8270 Primary Calibration Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Nov 13 15:35 2014 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\S811K12AN.M (RTE Integrator)
Title : 8270 BNA
Last Update : Thu Nov 13 14:05:28 2014
Response via : Multiple Level Calibration





TIC: 1112_05MRL.D

(3) N-Nitrosodimethylamine (MT)

3.44min (+0.006) 367.8640902 ppb

Qvalue = 62

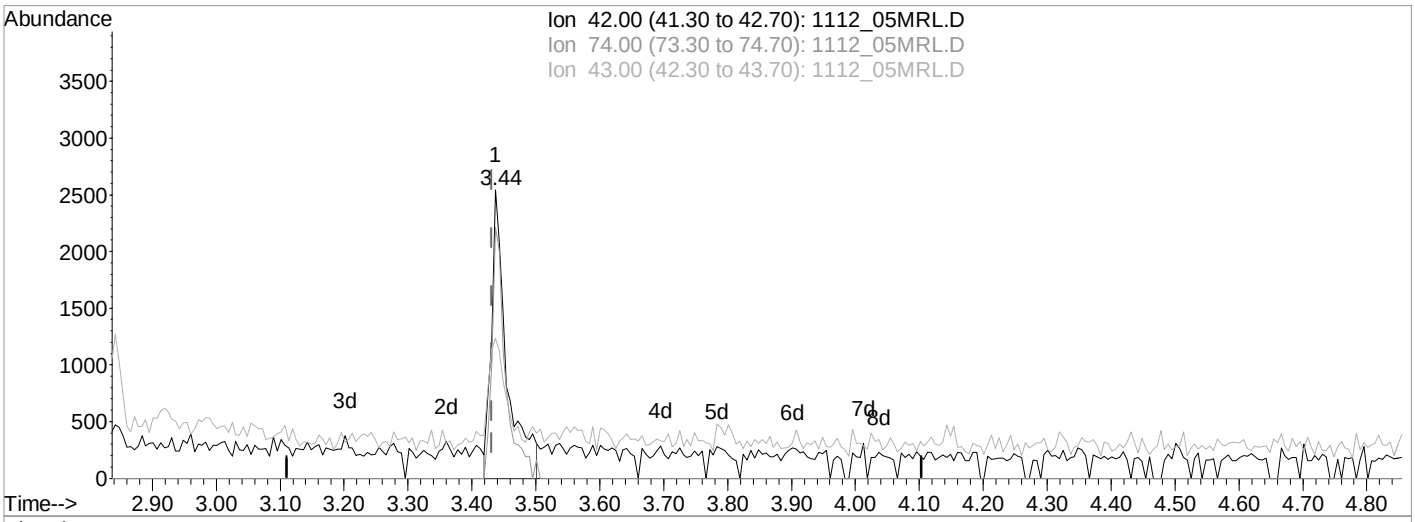
response 6629

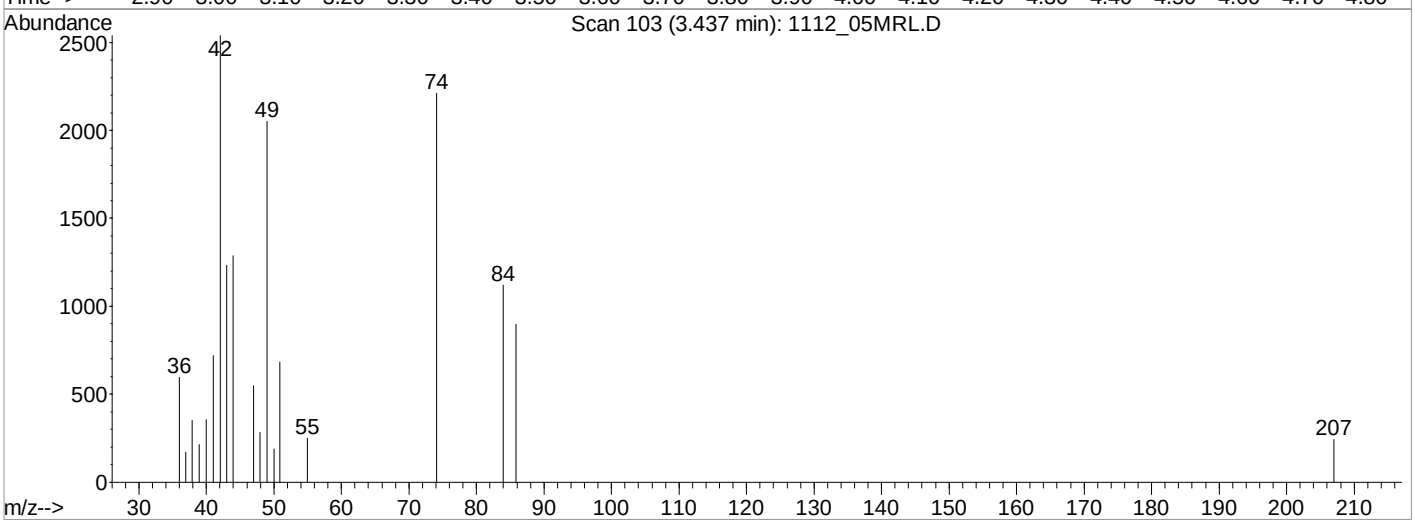
Ion	Exp%	Act%
42.00	100	100
74.00	103.40	49.81#
43.00	45.10	41.95
0.00	0.00	0.00

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\111214\1112 05MRL.D Vial: 3
Acq On : 12 Nov 2014 12:03 pm Operator: 280
Sample : MRL SVMS 200 PPB 14K07412 Inst : BNAMS11
Misc : 8270 Primary Calibration Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Nov 13 15:39 2014 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\S811K12AN.M (RTE Integrator)
Title : 8270 BNA
Last Update : Thu Nov 13 14:05:28 2014
Response via : Multiple Level Calibration





TIC: 1112_05MRL.D

(3) N-Nitrosodimethylamine (MT)

3.44min (+0.006) 240.3408319 ppb m

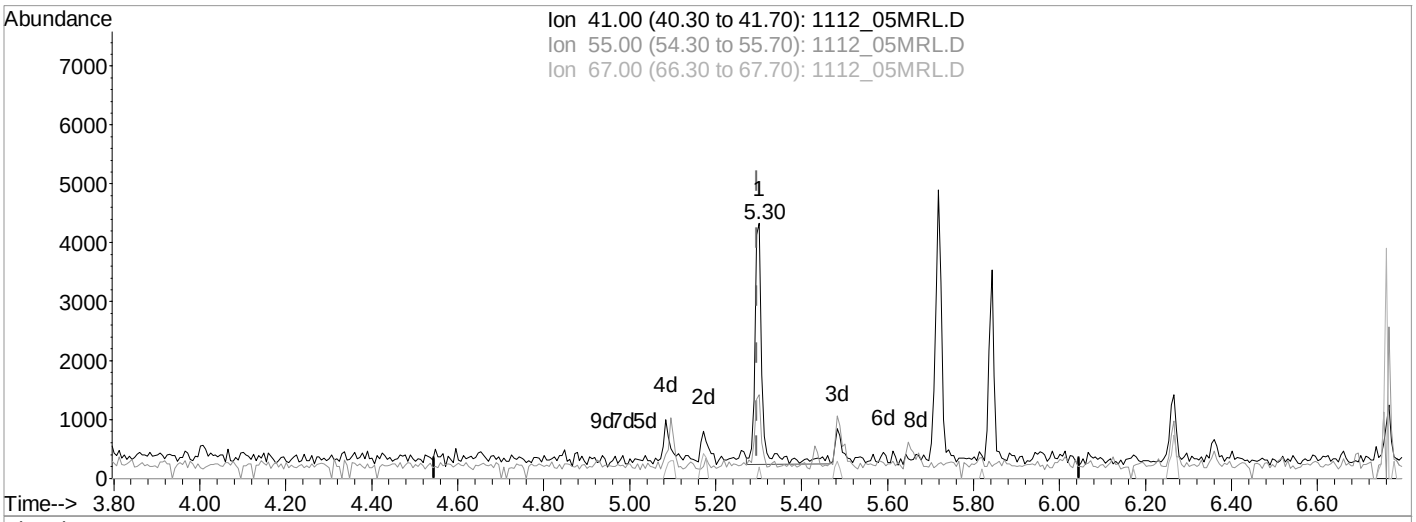
response 4331

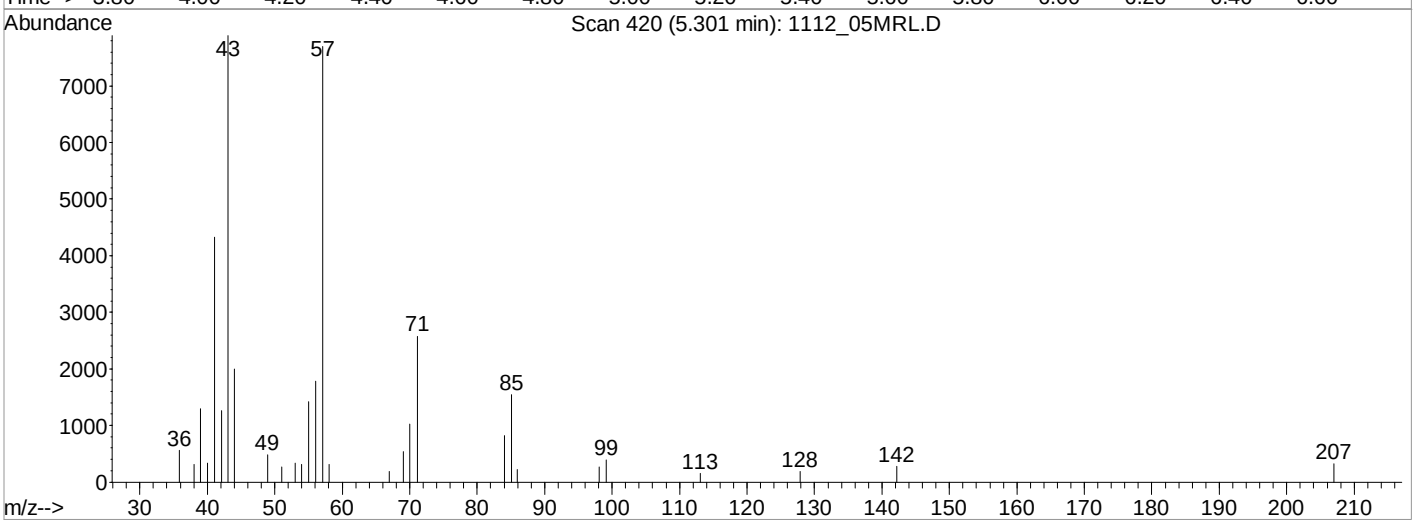
Ion	Exp%	Act%
42.00	100	100
74.00	103.40	76.24#
43.00	45.10	64.21
0.00	0.00	0.00

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\111214\1112 05MRL.D Vial: 3
Acq On : 12 Nov 2014 12:03 pm Operator: 280
Sample : MRL SVMS 200 PPB 14K07412 Inst : BNAMS11
Misc : 8270 Primary Calibration Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Nov 13 15:39 2014 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\S811K12AN.M (RTE Integrator)
Title : 8270 BNA
Last Update : Thu Nov 13 14:05:28 2014
Response via : Multiple Level Calibration





TIC: 1112_05MRL.D

(11) n-Decane (T)

5.30min (+0.006) 287.9040617 ppb

Qvalue = 99

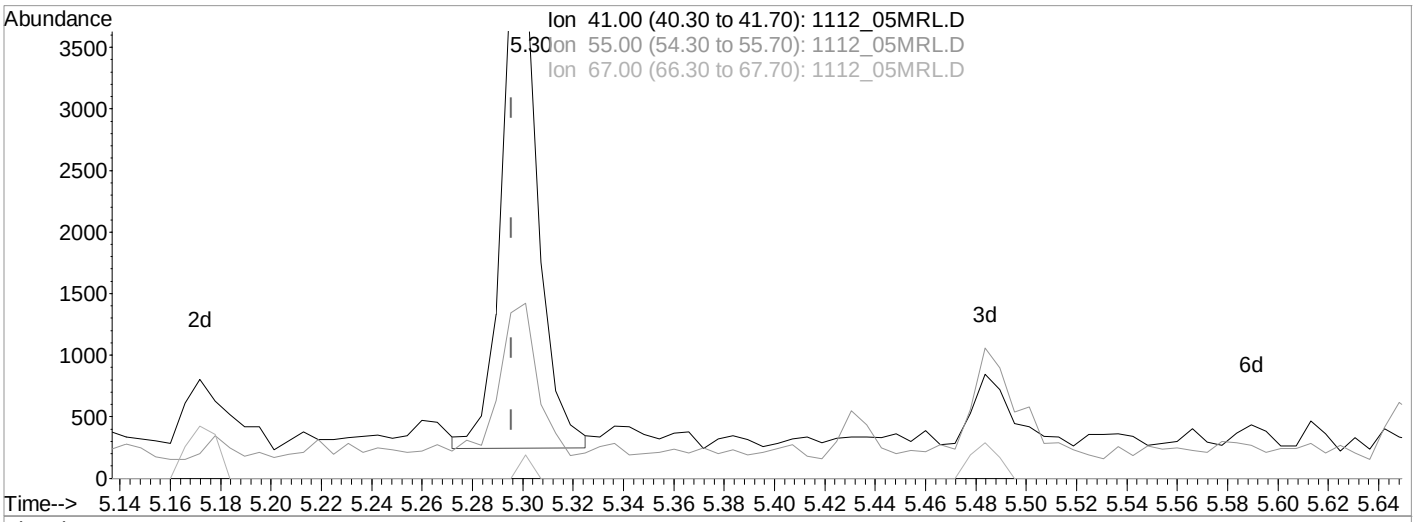
response 4944

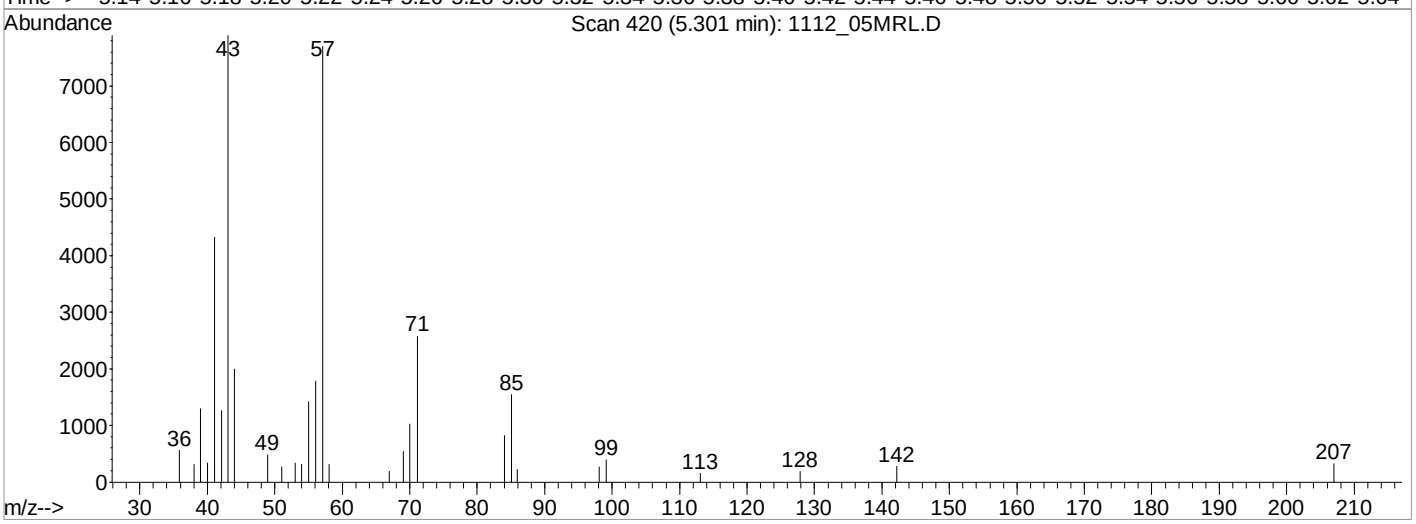
Ion	Exp%	Act%
41.00	100	100
55.00	33.10	33.78
67.00	2.50	1.38#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\111214\1112 05MRL.D Vial: 3
Acq On : 12 Nov 2014 12:03 pm Operator: 280
Sample : MRL SVMS 200 PPB 14K07412 Inst : BNAMS11
Misc : 8270 Primary Calibration Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Nov 13 15:39 2014 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\S811K12AN.M (RTE Integrator)
Title : 8270 BNA
Last Update : Thu Nov 13 14:05:28 2014
Response via : Multiple Level Calibration





TIC: 1112_05MRL.D

(11) n-Decane (T)

5.30min (+0.006) 240.5023817 ppb m

response 4130

Ion	Exp%	Act%
41.00	100	100
55.00	33.10	40.44#
67.00	2.50	1.65#
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\111214\1112 07MRL.D Vial: 5
Acq On : 12 Nov 2014 12:45 pm Operator: 280
Sample : MRL SVMS 2K PPB 14K07412 Inst : BNAMS11
Misc : 8270 Primary Calibration Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Nov 13 15:35 2014 Quant Results File: S811K12AN.RES

Quant Method : C:\MSDCHEM\1\METHODS\S811K12AN.M (RTE Integrator)
Title : 8270 BNA
Last Update : Thu Nov 13 14:05:28 2014
Response via : Initial Calibration
DataAcq Meth : BNA11A

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	5.48	152	103036	8000.00	ppb	0.00
22) Naphthalene-d8	6.76	136	452658	8000.00	ppb	0.00
40) Acenaphthene-d10	8.65	164	280434	8000.00	ppb	0.00
64) Phenanthrene-d10	10.28	188	510361	8000.00	ppb	0.00
78) Chrysene-d12	13.15	240	649937	8000.00	ppb	-0.02
88) Perylene-d12	14.66	264	774307	8000.00	ppb	-0.05

System Monitoring Compounds						
4) 2-Fluorophenol	4.36	112	36867	2012.3944017	ppb	0.01
Spiked Amount 20.000	Range 10 - 74		Recovery = 10061.97%#			
7) Phenol-d5	5.08	99	51782	2064.6341746	ppb	0.00
Spiked Amount 20.000	Range 10 - 63		Recovery = 10323.17%#			
23) Nitrobenzene-d5	6.01	82	48733	2000.1828221	ppb	0.00
Spiked Amount 10.000	Range 28 - 123		Recovery = 20001.83%#			
44) 2-Fluorobiphenyl	7.90	172	95350	2090.7840853	ppb	0.00
Spiked Amount 10.000	Range 35 - 133		Recovery = 20907.84%#			
67) 2,4,6-Tribromophenol	9.51	330	14066	1864.0336019	ppb	0.00
Spiked Amount 20.000	Range 22 - 154		Recovery = 9320.17%#			
81) p-Terphenyl-d14	11.98	244	158998	2090.5662881	ppb	-0.01
Spiked Amount 10.000	Range 30 - 148		Recovery = 20905.66%#			

Target Compounds							Qvalue
2) Pyridine	3.47	79	57929	2052.1169270	ppb		99
3) N-Nitrosodimethylamine	3.44	42	37504	2288.3347339	ppb	#	84
5) Aniline	5.17	66	27267	2052.3423601	ppb		99
6) bis(2-Chloroethyl)ether	5.21	63	36602	2081.0677609	ppb		98
8) Phenol	5.10	94	53438	2087.5224317	ppb		97
9) Benzaldehyde	5.10	105	55	5.5391933	ppb	#	1
10) 2-Chlorophenol	5.28	128	40644	2054.8645533	ppb		98
11) n-Decane	5.30	41	35020	2242.2707823	ppb		96
12) 1,3-Dichlorobenzene	5.44	146	44441	2050.7218681	ppb		98
13) 1,4-Dichlorobenzene	5.50	146	45645	2081.8690932	ppb		96
14) Benzyl Alcohol	5.59	79	39505	2048.8526240	ppb		99
15) 1,2-Dichlorobenzene	5.65	146	43253	2067.8578365	ppb		95
16) bis(2-Chloroisopropyl)ethe	5.72	121	13587	2081.3739152	ppb		99
17) 2-Methylphenol	5.67	108	38934	2092.7930186	ppb		98
18) Hexachloroethane	5.98	117	19344	2059.9594470	ppb		95
19) N-Nitrosodi-n-propylamine	5.84	70	36139	2080.9249587	ppb		99
20) 3&4-Methyl phenol	5.81	107	44257	2068.1079348	ppb		93
21) Acetophenone	5.81	105	523	18.2300283	ppb	#	1
24) Nitrobenzene	6.03	77	51266	2064.5814719	ppb		98
25) Isophorone	6.27	82	88330	2065.4421309	ppb		100
26) 2-Nitrophenol	6.35	139	18774	1881.7887129	ppb		89
27) 2,4-Dimethylphenol	6.36	107	45397	2122.6907030	ppb		99
28) bis(2-Chlorethoxy)methane	6.47	93	55177	2066.5302461	ppb		98
29) 2,4-Dichlorophenol	6.59	162	33191	2025.1148216	ppb		97
30) Benzoic Acid	6.36	105	1588	794.9285709	ppb	#	1
31) 1,2,4-Trichlorobenzene	6.70	180	37860	2060.6791620	ppb		98
32) Naphthalene	6.78	128	135779	2061.6494300	ppb		99
33) 4-Chloroaniline	6.82	65	19999	2105.4749116	ppb		94
34) Hexachloro-1,3-butadiene	6.90	225	20872	1992.6678301	ppb		96
35) Caprolactam	7.30	113	1104	186.7443282	ppb	#	50
36) 4-Chloro-3-methylphenol	7.30	107	39090	2007.7752865	ppb		96
37) 2-Methylnaphthalene	7.51	142	92656	2106.8038225	ppb		99
38) 1-Methylnaphthalene	7.62	142	86442	2125.5524778	ppb		99

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\111214\1112 07MRL.D Vial: 5
Acq On : 12 Nov 2014 12:45 pm Operator: 280
Sample : MRL SVMS 2K PPB 14K07412 Inst : BNAMS11
Misc : 8270 Primary Calibration Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Nov 13 15:35 2014 Quant Results File: S811K12AN.RES

Quant Method : C:\MSDCHEM\1\METHODS\S811K12AN.M (RTE Integrator)
Title : 8270 BNA
Last Update : Thu Nov 13 14:05:28 2014
Response via : Initial Calibration
DataAcq Meth : BNA11A

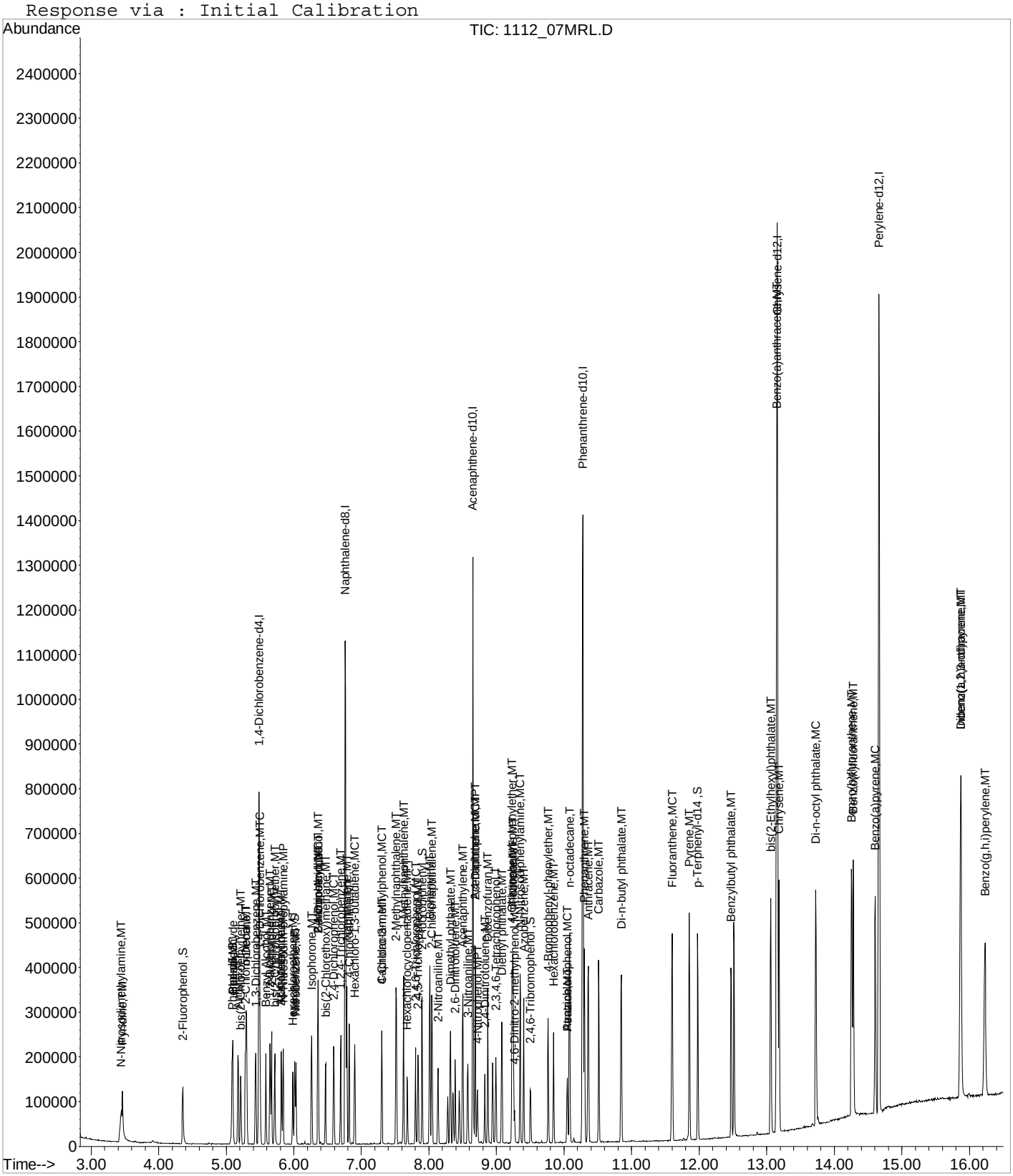
	Compound	R.T.	QIon	Response	Conc Unit		Qvalue
39)	1,2,4,5-Tetrachlorobenzene	0.00	216	0	N.D.		
41)	Hexachlorocyclopentadiene	7.68	237	21803	1893.6654994 ppb		96
42)	2,4,6-Trichlorophenol	7.80	196	22957	1978.6299562 ppb		96
43)	2,4,5-Trichlorophenol	7.84	196	25538	2013.5277270 ppb		97
45)	Biphenyl	8.01	154	110444	2120.6003605 ppb		99
46)	2-Chloronaphthalene	8.04	162	84504	2084.8253017 ppb		99
47)	2-Nitroaniline	8.14	138	24329	1880.2492761 ppb		97
48)	Acenaphthylene	8.50	152	131534	2089.6083975 ppb		100
49)	Dimethyl phthalate	8.32	163	88188	1997.2719870 ppb		99
50)	2,6-Dinitrotoluene	8.39	165	18862	1918.7319449 ppb		100
51)	3-Nitroaniline	8.58	138	22612	1924.4804340 ppb		96
52)	Acenaphthene	8.68	153	89642	2131.4144247 ppb		99
53)	2,4-Dinitrophenol	8.68	184	5481	3059.3030994 ppb	#	1
54)	Dibenzofuran	8.87	168	121951	2144.0896188 ppb		97
55)	2,4-Dinitrotoluene	8.82	165	23219	1806.5632981 ppb		87
56)	2,3,4,6-Tetrachlorophenol	8.99	232	20508	2343.5511807 ppb		96
57)	4-Nitrophenol	8.72	139	16075	1793.9492815 ppb		93
58)	Fluorene	9.25	166	101926	2150.1090379 ppb		99
59)	4-Chlorophenyl-phenylether	9.23	204	46499	2104.7283116 ppb		96
60)	Diethyl phthalate	9.08	149	94778	1986.8511756 ppb		99
61)	4-Nitroaniline	9.24	138	23116	2101.8651904 ppb		98
62)	Azobenzene	9.40	77	117155	2032.6024603 ppb		99
63)	Atrazine	10.05	200	2646	212.3130580 ppb	#	18
65)	4,6-Dinitro-2-methylphenol	9.27	198	9122	2216.6779542 ppb		95
66)	N-Nitrosodiphenylamine	9.35	169	85522	2110.1138272 ppb		98
68)	4-Bromophenyl-phenylether	9.77	248	28552	1999.4707007 ppb		97
69)	Hexachlorobenzene	9.85	284	34016	1998.2490292 ppb		98
70)	n-octadecane	10.08	55	21103	2074.4590378 ppb		97
71)	Pentachlorophenol	10.05	266	16290	1763.9060499 ppb		97
72)	Phenanthrene	10.30	178	158032	2158.1333285 ppb		99
73)	Anthracene	10.36	178	159303	2150.5423334 ppb		99
74)	Carbazole	10.51	167	154903	2172.7060622 ppb		100
75)	Di-n-butyl phthalate	10.85	149	198148	2095.8968278 ppb		100
76)	2-nitrodiphenylamine	0.00	167	0	N.D.		
77)	Fluoranthene	11.60	202	190996	2154.5087352 ppb		98
79)	Benzidine	0.00	184	0	N.D.		
80)	Pyrene	11.85	202	202606	2105.5170348 ppb		99
82)	Benzylbutyl phthalate	12.47	149	94436	1920.9869639 ppb		98
83)	3,3-Dichlorobenzidine	0.00	252	0	N.D.		
84)	Benzo(a)anthracene	13.14	228	220188	2146.4122313 ppb		98
85)	Chrysene	13.18	228	200878	2162.4699375 ppb		97
86)	bis(2-Ethylhexyl)phthalate	13.06	149	141997	1930.5400439 ppb		100
87)	Di-n-octyl phthalate	13.72	149	249951	1995.8678366 ppb		100
89)	Benzo(b)fluoranthene	14.25	252	251890	2241.6872594 ppb		98
90)	Benzo(k)fluoranthene	14.28	252	215552	2137.0809705 ppb		99
91)	Benzo(a)pyrene	14.61	252	222756	2114.6334249 ppb		97
92)	Indeno(1,2,3-cd)pyrene	15.87	276	275917	2136.1397502 ppb		100
93)	Dibenz(a,h)anthracene	15.87	278	234410	2179.8272665 ppb		95
94)	Benzo(g,h,i)perylene	16.23	276	230220	2104.5859168 ppb		98

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\111214\1112 07MRL.D Vial: 5
Acq On : 12 Nov 2014 12:45 pm Operator: 280
Sample : MRL SVMS 2K PPB 14K07412 Inst : BNAMS11
Misc : 8270 Primary Calibration Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Nov 13 15:35 2014 Quant Results File: S811K12AN.RES

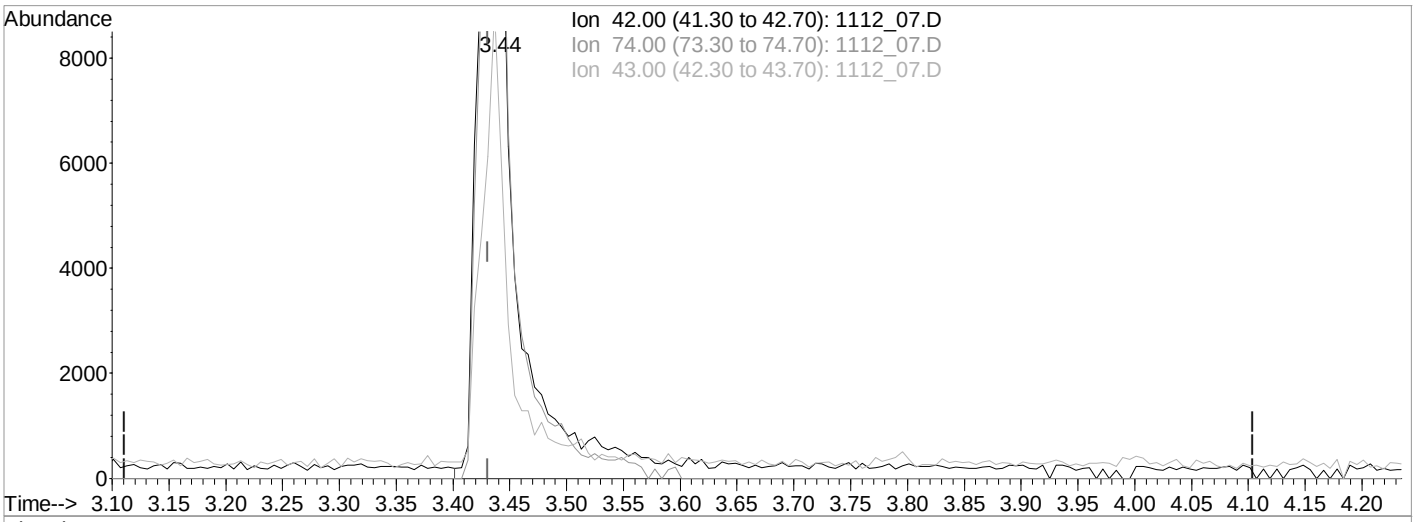
Method : C:\MSDCHEM\1\METHODS\S811K12AN.M (RTE Integrator)
Title : 8270 BNA
Last Update : Thu Nov 13 14:05:28 2014
Response via : Initial Calibration

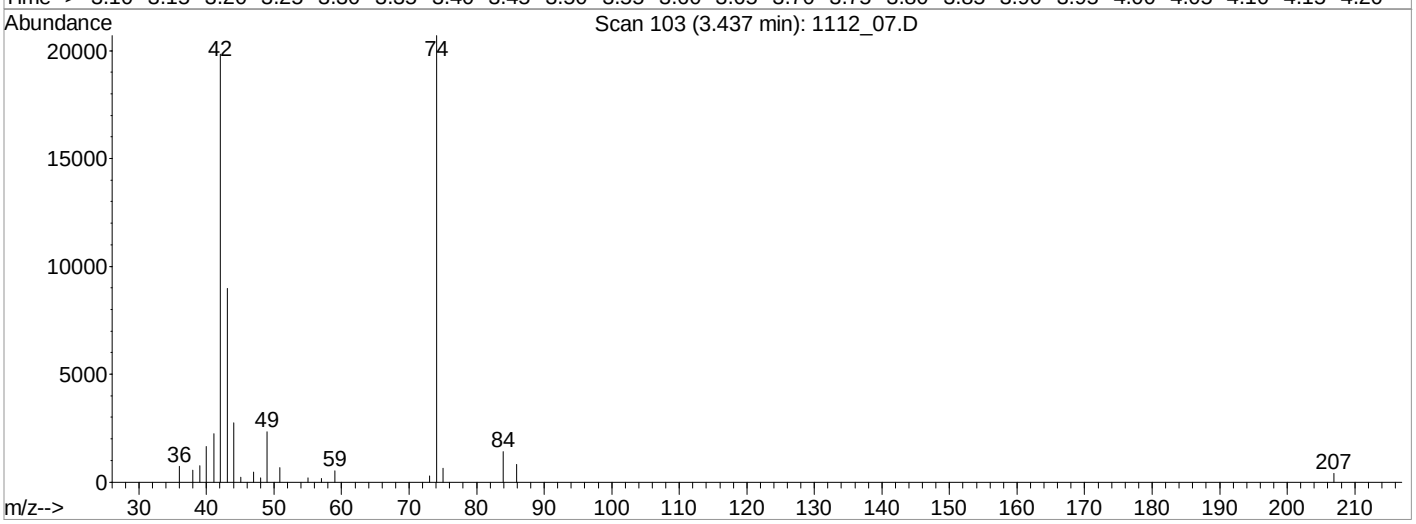


Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\111214\1112 07.D Vial: 5
Acq On : 12 Nov 2014 12:45 pm Operator: 280
Sample : STD SVMS 2K PPB 14K07412 Inst : BNAMS11
Misc : 8270 Primary Calibration Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Nov 12 19:29 2014 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\S811K12N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Wed Nov 12 19:28:53 2014
Response via : Multiple Level Calibration





TIC: 1112_07.D

(3) N-Nitrosodimethylamine (MT)

3.44min (+0.006) 2239.8994796 ppb

Qvalue = 84

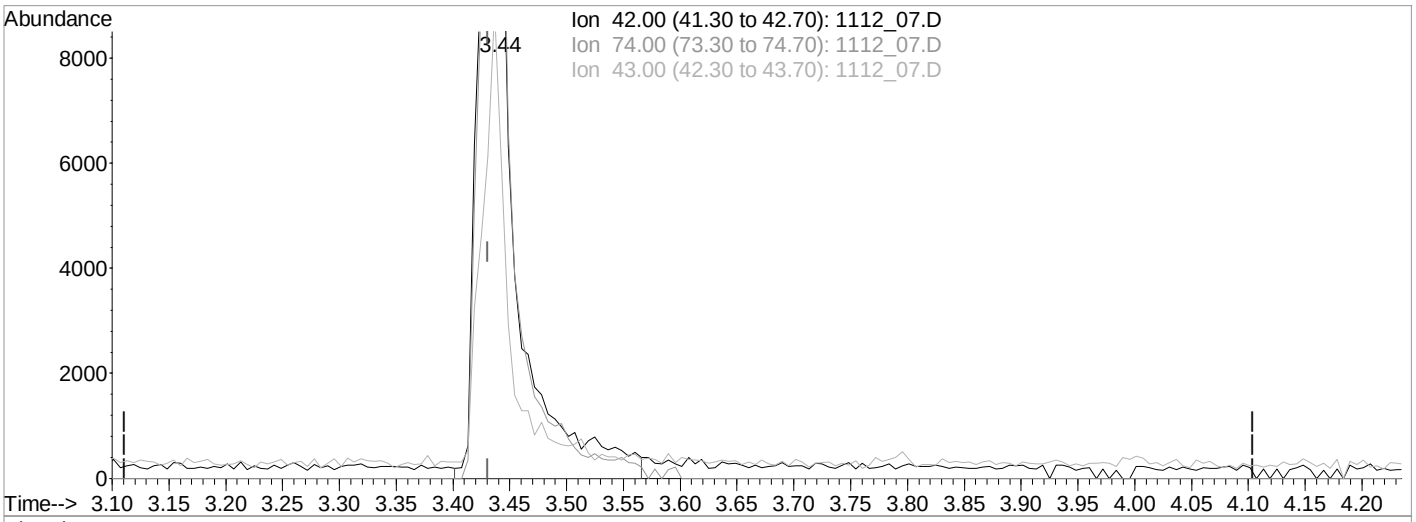
response 37504

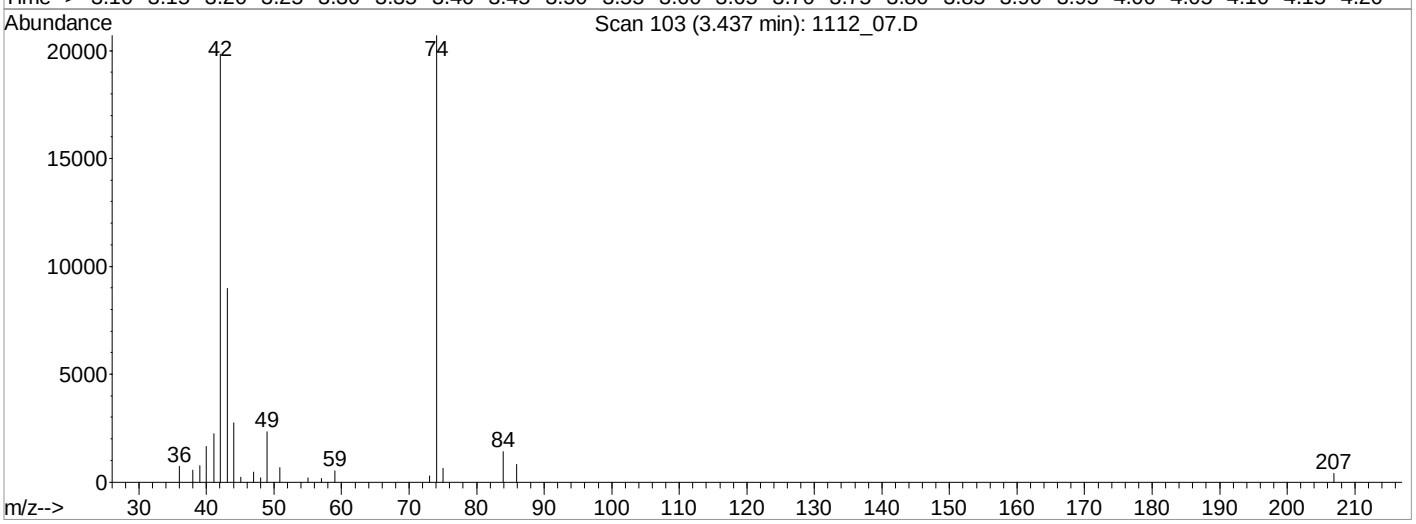
Ion	Exp%	Act%
42.00	100	100
74.00	103.40	83.09#
43.00	45.10	40.75
0.00	0.00	0.00

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\111214\1112 07.D Vial: 5
Acq On : 12 Nov 2014 12:45 pm Operator: 280
Sample : STD SVMS 2K PPB 14K07412 Inst : BNAMS11
Misc : 8270 Primary Calibration Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Nov 12 19:29 2014 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\S811K12N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Wed Nov 12 19:28:53 2014
Response via : Multiple Level Calibration





TIC: 1112_07.D

(3) N-Nitrosodimethylamine (MT)

3.44min (+0.006) 1934.1708790 ppb m

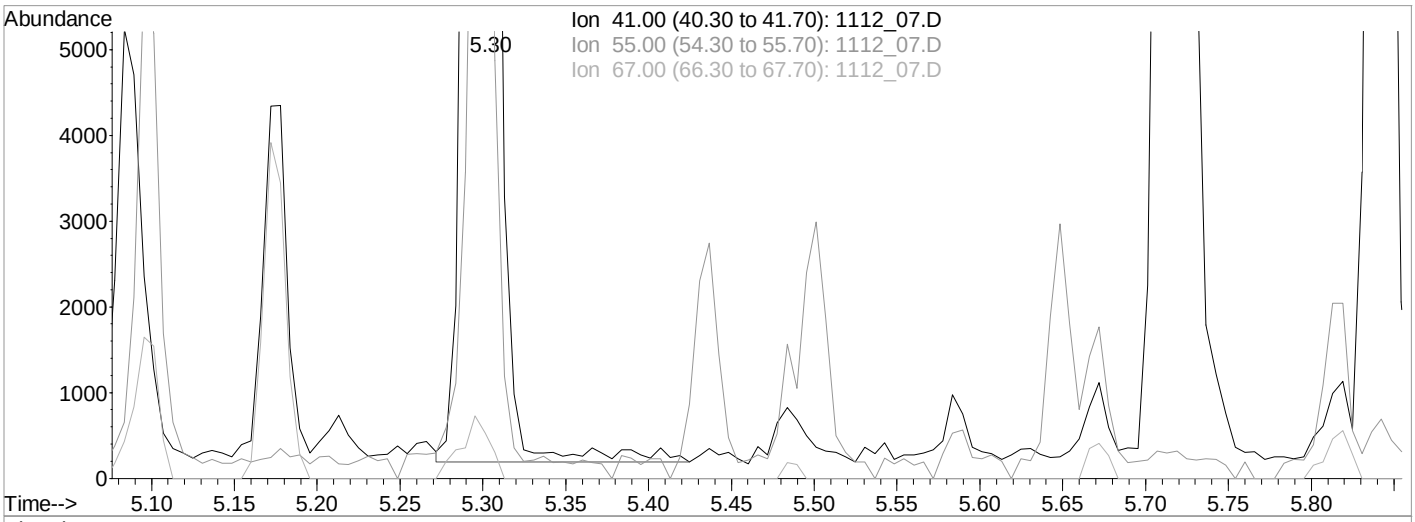
response 32385

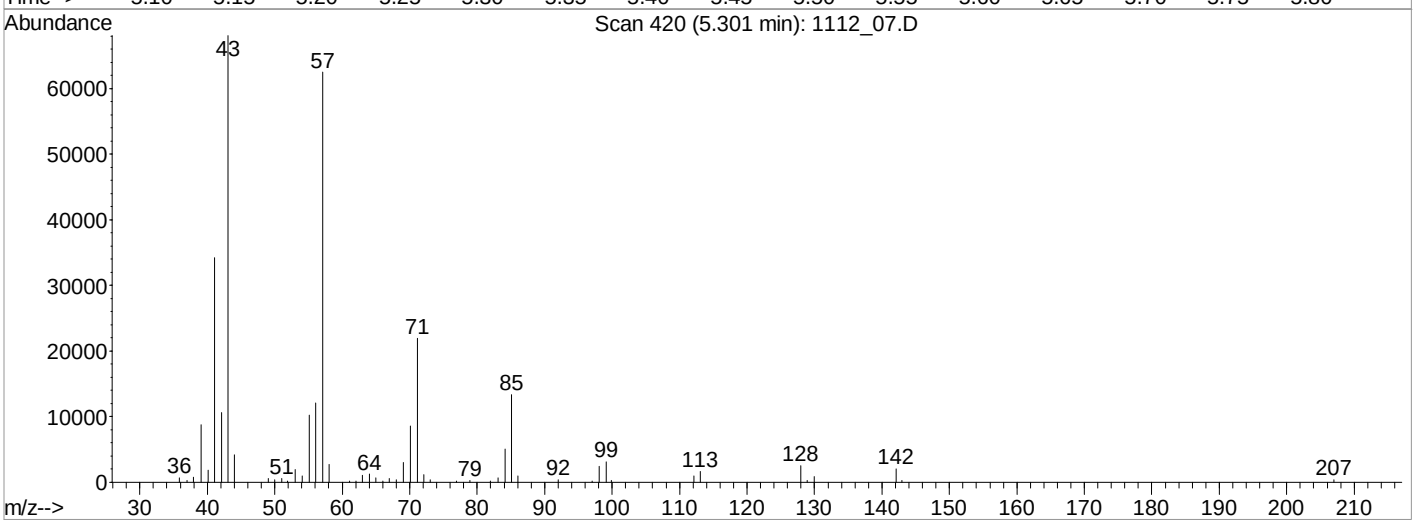
Ion	Exp%	Act%
42.00	100	100
74.00	103.40	96.22
43.00	45.10	47.19
0.00	0.00	0.00

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\111214\1112 07.D Vial: 5
Acq On : 12 Nov 2014 12:45 pm Operator: 280
Sample : STD SVMS 2K PPB 14K07412 Inst : BNAMS11
Misc : 8270 Primary Calibration Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Nov 12 19:29 2014 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\S811K12N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Wed Nov 12 19:28:53 2014
Response via : Multiple Level Calibration





TIC: 1112_07.D

(11) n-Decane (T)

5.30min (+0.006) 2091.8477389 ppb

Qvalue = 96

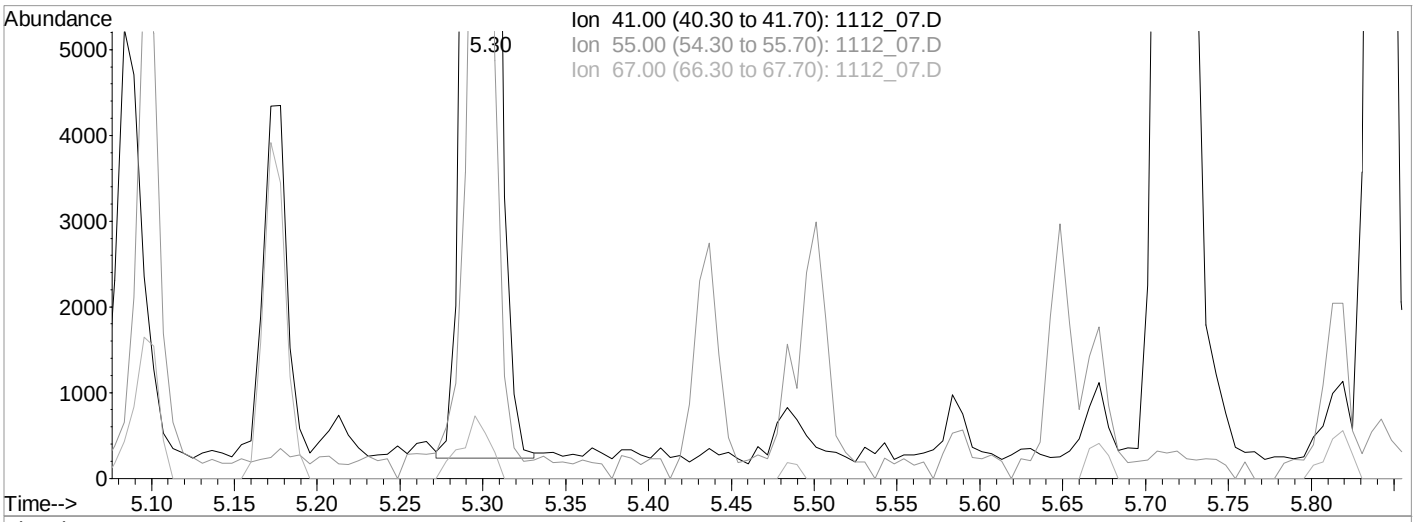
response 35020

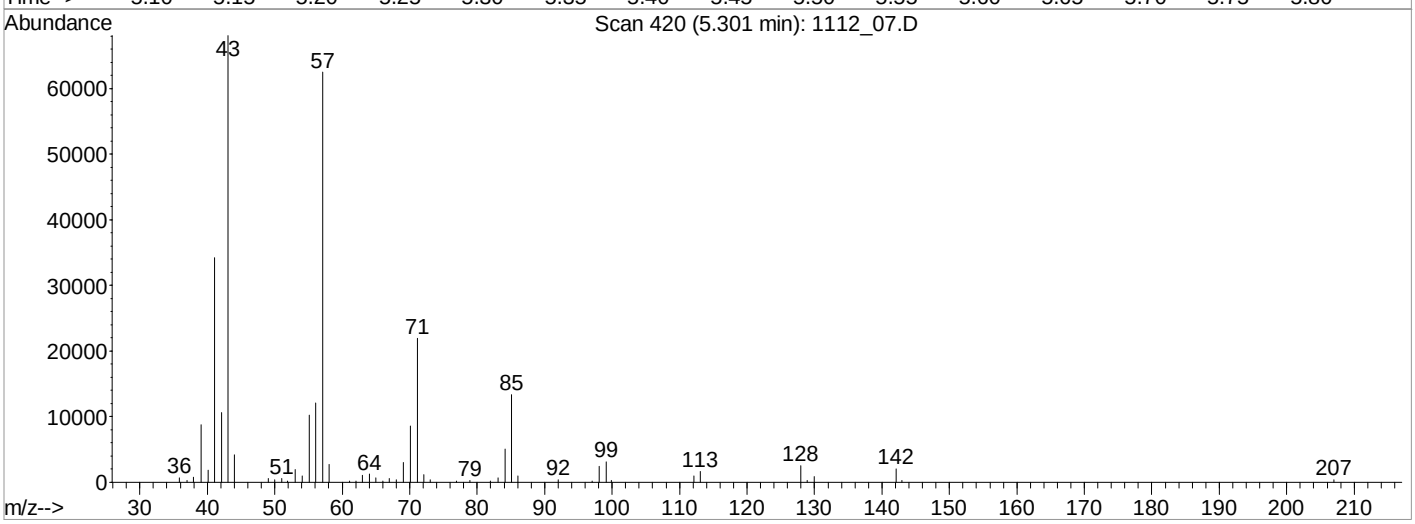
Ion	Exp%	Act%
41.00	100	100
55.00	33.10	35.45
67.00	2.50	2.46
0.00	0.00	0.00

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\111214\1112 07.D Vial: 5
Acq On : 12 Nov 2014 12:45 pm Operator: 280
Sample : STD SVMS 2K PPB 14K07412 Inst : BNAMS11
Misc : 8270 Primary Calibration Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Nov 12 19:29 2014 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\S811K12N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Wed Nov 12 19:28:53 2014
Response via : Multiple Level Calibration





TIC: 1112_07.D

(11) n-Decane (T)

5.30min (+0.006) 2051.3488021 ppb m

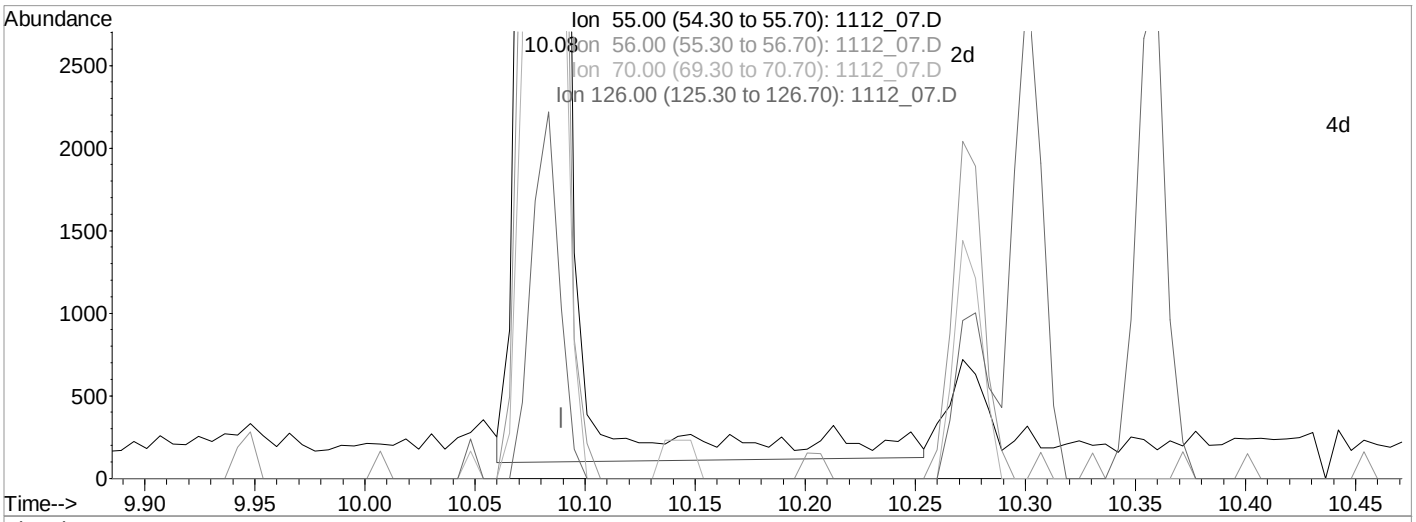
response 34342

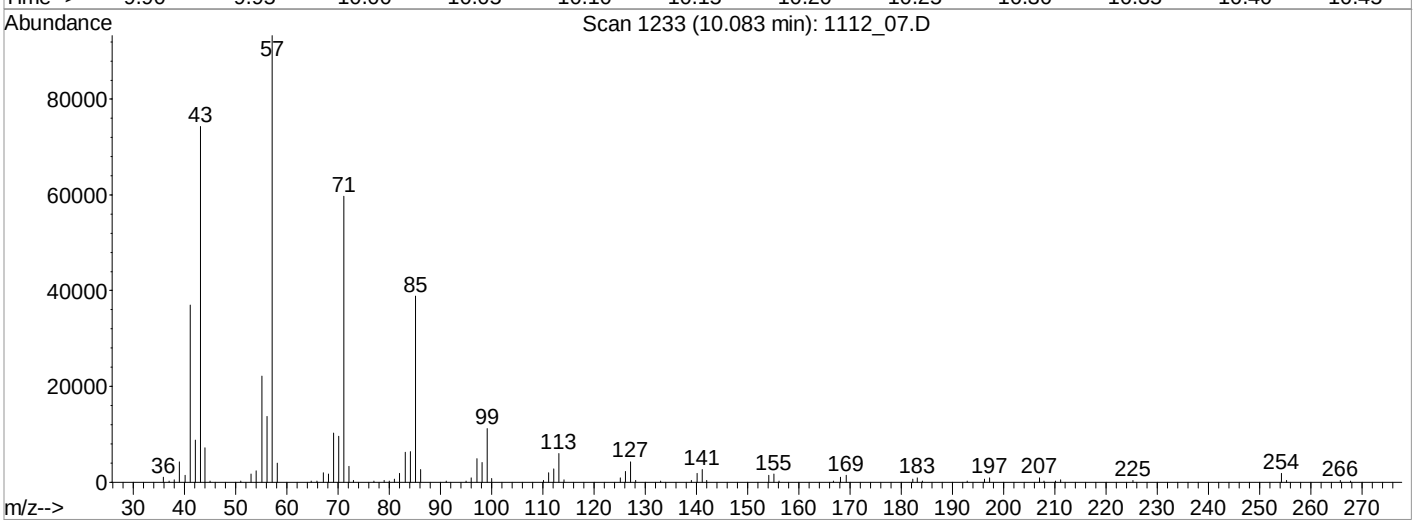
Ion	Exp%	Act%
41.00	100	100
55.00	33.10	36.15
67.00	2.50	2.51
0.00	0.00	0.00

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\111214\1112 07.D Vial: 5
Acq On : 12 Nov 2014 12:45 pm Operator: 280
Sample : STD SVMS 2K PPB 14K07412 Inst : BNAMS11
Misc : 8270 Primary Calibration Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Nov 12 19:30 2014 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\S811K12N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Wed Nov 12 19:28:53 2014
Response via : Multiple Level Calibration





TIC: 1112_07.D

(70) n-octadecane (T)

10.08min (-0.006) 1989.8880571 ppb

Qvalue = 97

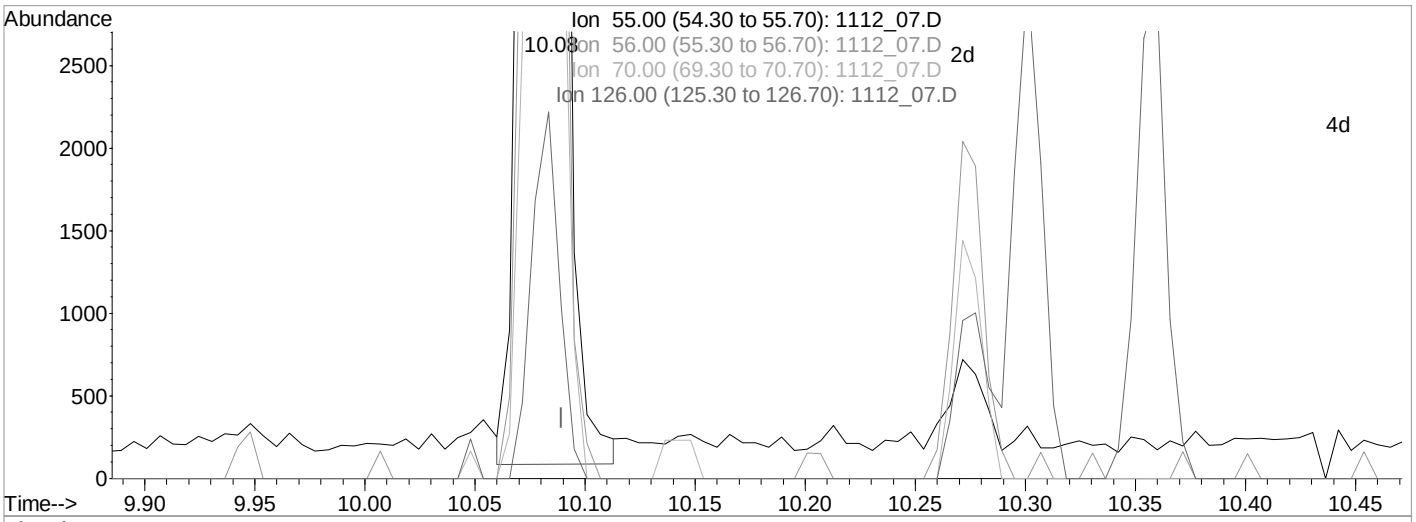
response 21103

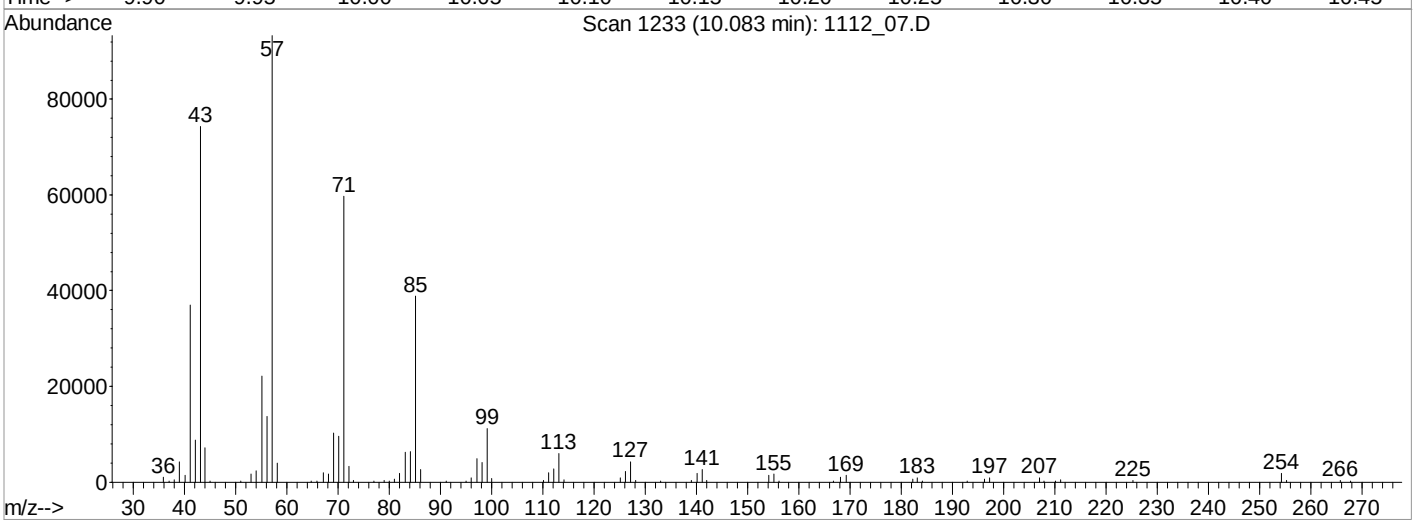
Ion	Exp%	Act%
55.00	100	100
56.00	63.50	60.82
70.00	45.70	43.06
126.00	9.80	9.30

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\111214\1112 07.D Vial: 5
Acq On : 12 Nov 2014 12:45 pm Operator: 280
Sample : STD SVMS 2K PPB 14K07412 Inst : BNAMS11
Misc : 8270 Primary Calibration Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Nov 12 19:30 2014 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\S811K12N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Wed Nov 12 19:28:53 2014
Response via : Multiple Level Calibration





TIC: 1112_07.D

(70) n-octadecane (T)

10.08min (-0.006) 1906.7206749 ppb m

response 20221

Ion	Exp%	Act%
55.00	100	100
56.00	63.50	63.47
70.00	45.70	44.94
126.00	9.80	9.70

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\111214\1112 16MRL.D Vial: 14
Acq On : 12 Nov 2014 3:56 pm Operator: 280
Sample : MRL TCL 2K1 PPB 14G21532 Inst : BNAMS11
Misc : 8270 TCL Calibration Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Nov 13 15:35 2014 Quant Results File: S811K12AN.RES

Quant Method : C:\MSDCHEM\1\METHODS\S811K12AN.M (RTE Integrator)
Title : 8270 BNA
Last Update : Thu Nov 13 14:05:28 2014
Response via : Initial Calibration
DataAcq Meth : BNA11A

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	5.48	152	94049	8000.00 ppb	0.00
22) Naphthalene-d8	6.76	136	414869	8000.00 ppb	0.00
40) Acenaphthene-d10	8.65	164	249624	8000.00 ppb	0.00
64) Phenanthrene-d10	10.28	188	456206	8000.00 ppb	0.00
78) Chrysene-d12	13.15	240	566808	8000.00 ppb	-0.02
88) Perylene-d12	14.66	264	671221	8000.00 ppb	-0.05

System Monitoring Compounds					
4) 2-Fluorophenol	0.00	112	0	0.0000000 ppb	
Spiked Amount 20.000	Range 10 - 74		Recovery = 0.00%#		
7) Phenol-d5	0.00	99	0	0.0000000 ppb	
Spiked Amount 20.000	Range 10 - 63		Recovery = 0.00%#		
23) Nitrobenzene-d5	0.00	82	0	0.0000000 ppb	
Spiked Amount 10.000	Range 28 - 123		Recovery = 0.00%#		
44) 2-Fluorobiphenyl	7.97	172	67	1.6504699 ppb	0.07
Spiked Amount 10.000	Range 35 - 133		Recovery = 16.50%#		
67) 2,4,6-Tribromophenol	0.00	330	0	0.0000000 ppb	
Spiked Amount 20.000	Range 22 - 154		Recovery = 0.00%#		
81) p-Terphenyl-d14	0.00	244	0	0.0000000 ppb	
Spiked Amount 10.000	Range 30 - 148		Recovery = 0.00%#		

Target Compounds						Qvalue
2) Pyridine	0.00	79	0	N.D.		
3) N-Nitrosodimethylamine	3.42	42	63	4.2113111 ppb	#	1
5) Aniline	0.00	66	0	N.D.		
6) bis(2-Chloroethyl)ether	5.09	63	609	37.9344250 ppb	#	9
8) Phenol	0.00	94	0	N.D.		
9) Benzaldehyde	5.09	105	17648	1947.2160257 ppb		98
10) 2-Chlorophenol	0.00	128	0	N.D.		
11) n-Decane	5.30	41	136	9.5399398 ppb	#	45
12) 1,3-Dichlorobenzene	0.00	146	0	N.D.		
13) 1,4-Dichlorobenzene	0.00	146	0	N.D.		
14) Benzyl Alcohol	0.00	79	0	N.D.		
15) 1,2-Dichlorobenzene	0.00	146	0	N.D.		
16) bis(2-Chloroisopropyl)ethe	5.85	121	1286	215.8252780 ppb	#	1
17) 2-Methylphenol	0.00	108	0	N.D.		
18) Hexachloroethane	0.00	117	0	N.D.		
19) N-Nitrosodi-n-propylamine	0.00	70	0	N.D.		
20) 3&4-Methyl phenol	5.85	107	169	8.6519249 ppb	#	1
21) Acetophenone	5.85	105	53636	2048.2211425 ppb		99
24) Nitrobenzene	5.85	77	47754	2098.3192417 ppb	#	65
25) Isophorone	0.00	82	0	N.D.		
26) 2-Nitrophenol	0.00	139	0	N.D.		
27) 2,4-Dimethylphenol	0.00	107	0	N.D.		
28) bis(2-Chlorethoxy)methane	0.00	93	0	N.D.		
29) 2,4-Dichlorophenol	0.00	162	0	N.D.		
30) Benzoic Acid	6.38	105	13869	1842.2337998 ppb		99
31) 1,2,4-Trichlorobenzene	6.70	180	55	3.2662669 ppb	#	19
32) Naphthalene	6.78	128	2320	38.4352237 ppb		97
33) 4-Chloroaniline	6.77	65	1592	182.8706757 ppb	#	1
34) Hexachloro-1,3-butadiene	0.00	225	0	N.D.		
35) Caprolactam	7.15	113	10278	1896.9075973 ppb		98
36) 4-Chloro-3-methylphenol	0.00	107	0	N.D.		
37) 2-Methylnaphthalene	0.00	142	0	N.D.		
38) 1-Methylnaphthalene	7.70	142	220	5.9024039 ppb	#	19

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\111214\1112 16MRL.D Vial: 14
Acq On : 12 Nov 2014 3:56 pm Operator: 280
Sample : MRL TCL 2K1 PPB 14G21532 Inst : BNAMS11
Misc : 8270 TCL Calibration Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Nov 13 15:35 2014 Quant Results File: S811K12AN.RES

Quant Method : C:\MSDCHEM\1\METHODS\S811K12AN.M (RTE Integrator)
Title : 8270 BNA
Last Update : Thu Nov 13 14:05:28 2014
Response via : Initial Calibration
DataAcq Meth : BNA11A

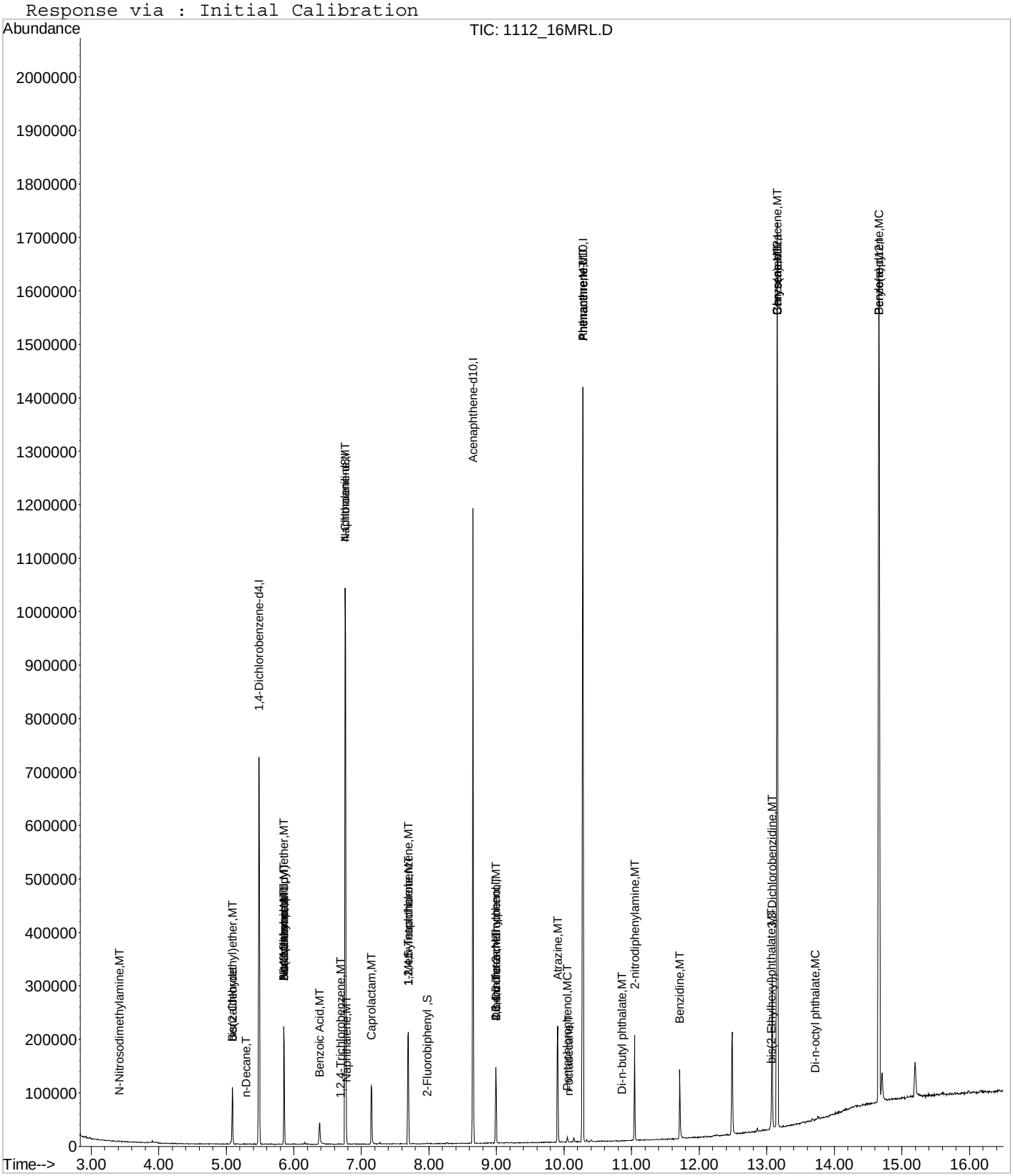
	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
39)	1,2,4,5-Tetrachlorobenzene	7.70	216	33601	2037.2306461	ppb		99
41)	Hexachlorocyclopentadiene	0.00	237	0	N.D.			
42)	2,4,6-Trichlorophenol	0.00	196	0	N.D.			
43)	2,4,5-Trichlorophenol	0.00	196	0	N.D.			
45)	Biphenyl	0.00	154	0	N.D.			
46)	2-Chloronaphthalene	0.00	162	0	N.D.			
47)	2-Nitroaniline	0.00	138	0	N.D.			
48)	Acenaphthylene	0.00	152	0	N.D.			
49)	Dimethyl phthalate	0.00	163	0	N.D.			
50)	2,6-Dinitrotoluene	0.00	165	0	N.D.			
51)	3-Nitroaniline	0.00	138	0	N.D.			
52)	Acenaphthene	0.00	153	0	N.D.			
53)	2,4-Dinitrophenol	0.00	184	0	N.D.			
54)	Dibenzofuran	8.99	168	4704	92.9114440	ppb	#	47
55)	2,4-Dinitrotoluene	0.00	165	0	N.D.			
56)	2,3,4,6-Tetrachlorophenol	8.99	232	15057	1933.0091629	ppb		98
57)	4-Nitrophenol	0.00	139	0	N.D.			
58)	Fluorene	0.00	166	0	N.D.			
59)	4-Chlorophenyl-phenylether	0.00	204	0	N.D.			
60)	Diethyl phthalate	0.00	149	0	N.D.			
61)	4-Nitroaniline	0.00	138	0	N.D.			
62)	Azobenzene	0.00	77	0	N.D.			
63)	Atrazine	9.91	200	21687	1954.9275809	ppb		99
65)	4,6-Dinitro-2-methylphenol	8.99	198	705	1156.1848258	ppb	#	30
66)	N-Nitrosodiphenylamine	0.00	169	0	N.D.			
68)	4-Bromophenyl-phenylether	0.00	248	0	N.D.			
69)	Hexachlorobenzene	0.00	284	0	N.D.			
70)	n-octadecane	10.07	55	223	24.5234753	ppb	#	28
71)	Pentachlorophenol	10.05	266	1305	158.0816150	ppb		84
72)	Phenanthrene	10.28	178	142	2.1693922	ppb	#	1
73)	Anthracene	10.28	178	142	2.1445139	ppb	#	1
74)	Carbazole	0.00	167	0	N.D.			
75)	Di-n-butyl phthalate	10.85	149	204	2.4139422	ppb		78
76)	2-nitrodiphenylamine	11.04	167	24653	1495.7409138	ppb		95
77)	Fluoranthene	0.00	202	0	N.D.			
79)	Benzidine	11.71	184	52076	1407.7680848	ppb		99
80)	Pyrene	0.00	202	0	N.D.			
82)	Benzylbutyl phthalate	0.00	149	0	N.D.			
83)	3,3-Dichlorobenzidine	13.08	252	66505	2026.2216902	ppb		99
84)	Benzo(a)anthracene	13.15	228	1404	15.6935749	ppb	#	1
85)	Chrysene	13.15	228	1404	17.3308595	ppb		70
86)	bis(2-Ethylhexyl)phthalate	13.06	149	2406	37.5085744	ppb		89
87)	Di-n-octyl phthalate	13.72	149	424	3.8822013	ppb		73
89)	Benzo(b)fluoranthene	0.00	252	0	N.D.			
90)	Benzo(k)fluoranthene	0.00	252	0	N.D.			
91)	Benzo(a)pyrene	14.66	252	2430	26.6109026	ppb	#	1
92)	Indeno(1,2,3-cd)pyrene	0.00	276	0	N.D.			
93)	Dibenz(a,h)anthracene	0.00	278	0	N.D.			
94)	Benzo(g,h,i)perylene	0.00	276	0	N.D.			

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\111214\1112 16MRL.D Vial: 14
Acq On : 12 Nov 2014 3:56 pm Operator: 280
Sample : MRL TCL 2K1 PPB 14G21532 Inst : BNAMS11
Misc : 8270 TCL Calibration Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Nov 13 15:35 2014 Quant Results File: S811K12AN.RES

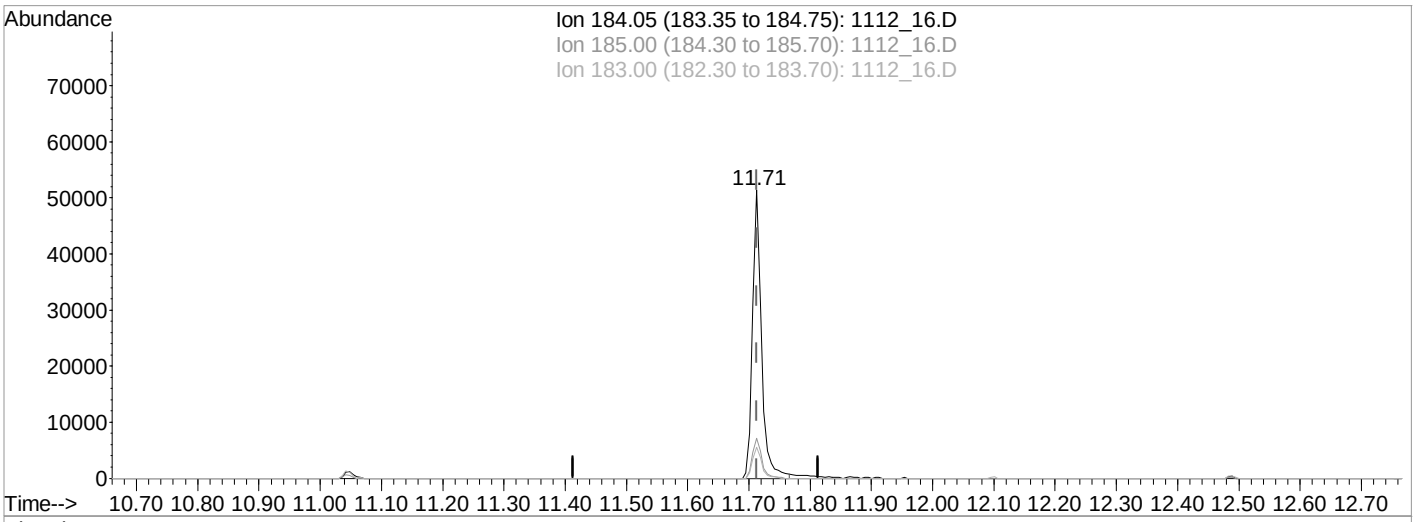
Method : C:\MSDCHEM\1\METHODS\S811K12AN.M (RTE Integrator)
Title : 8270 BNA
Last Update : Thu Nov 13 14:05:28 2014
Response via : Initial Calibration

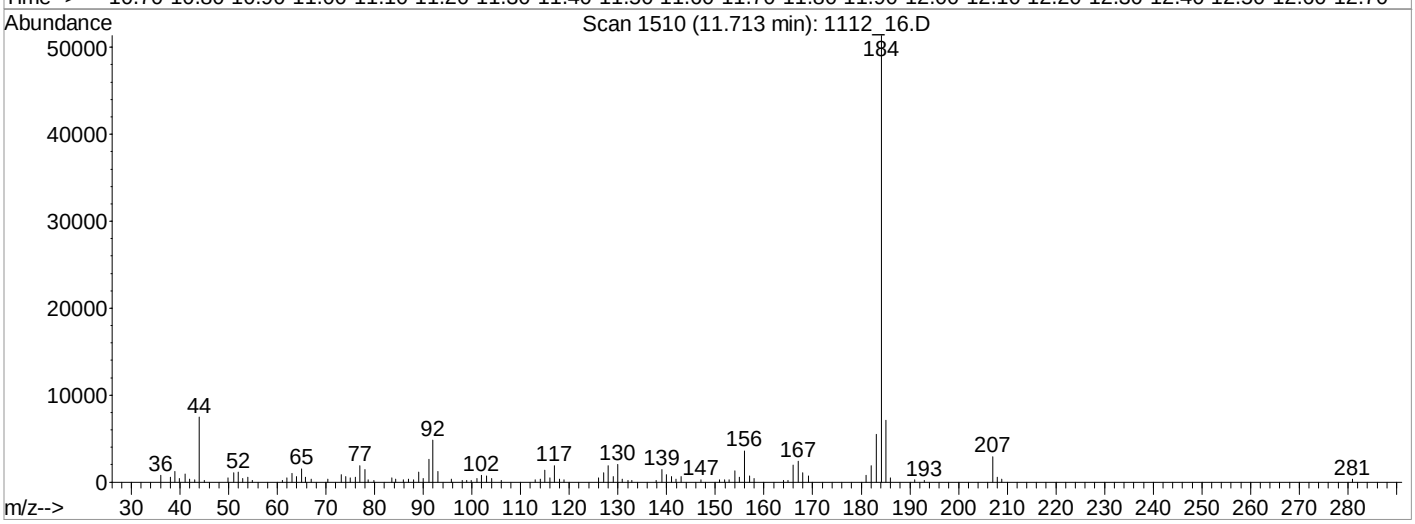


Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\111214\1112 16.D Vial: 14
Acq On : 12 Nov 2014 3:56 pm Operator: 280
Sample : STD TCL 2K PPB 14G21532 Inst : BNAMS11
Misc : 8270 TCL Calibration Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Nov 12 20:30 2014 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\S811K12N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Wed Nov 12 20:29:31 2014
Response via : Single Level Calibration





TIC: 1112_16.D

(79) Benzidine (MT)

11.71min (0.000) 1851.7367265 ppb

Qvalue = 99

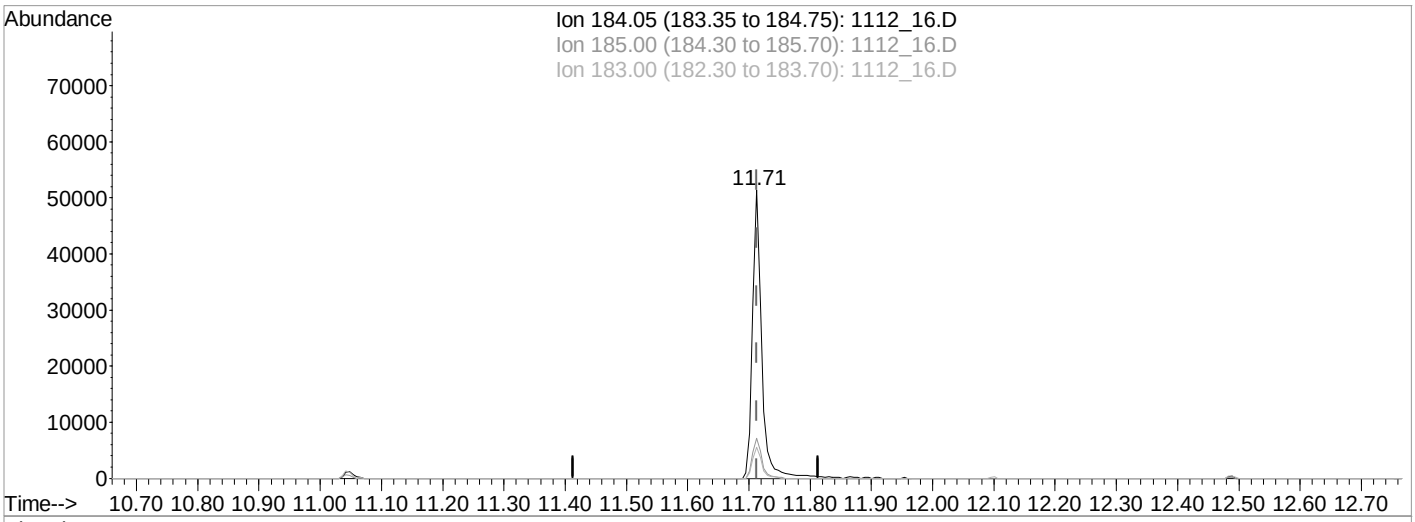
response 52076

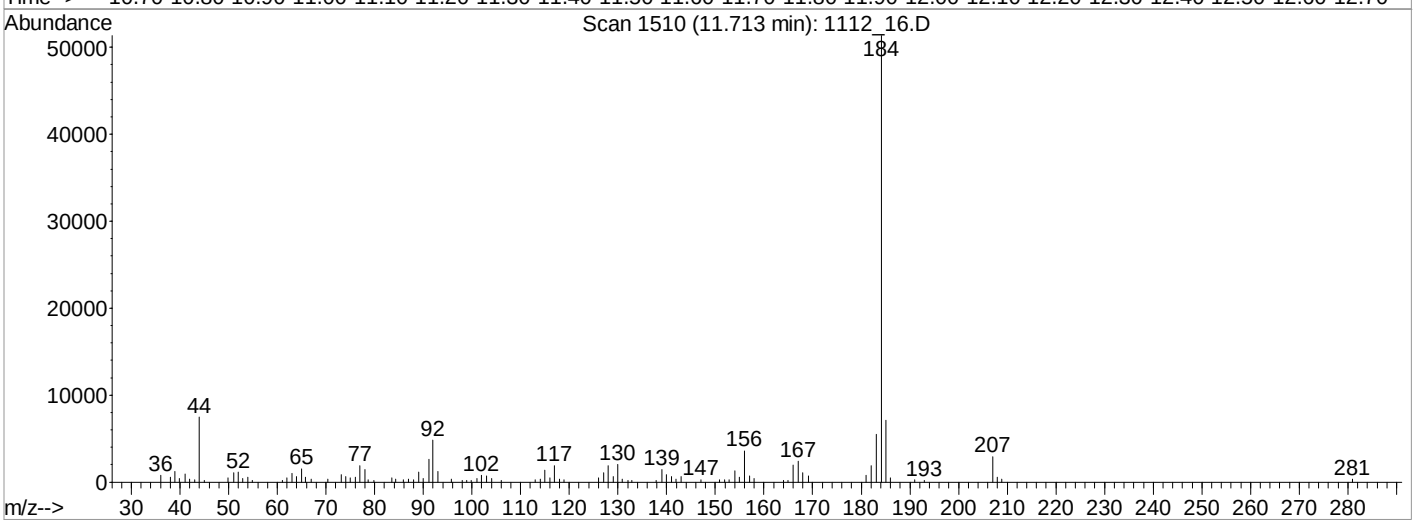
Ion	Exp%	Act%
184.05	100	100
185.00	14.30	14.55
183.00	11.60	11.02
0.00	0.00	0.00

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\111214\1112 16.D Vial: 14
Acq On : 12 Nov 2014 3:56 pm Operator: 280
Sample : STD TCL 2K PPB 14G21532 Inst : BNAMS11
Misc : 8270 TCL Calibration Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Nov 12 20:31 2014 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\S811K12N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Wed Nov 12 20:29:31 2014
Response via : Single Level Calibration





TIC: 1112_16.D

(79) Benzidine (MT)

11.71min (0.000) 1938.5702215 ppb m

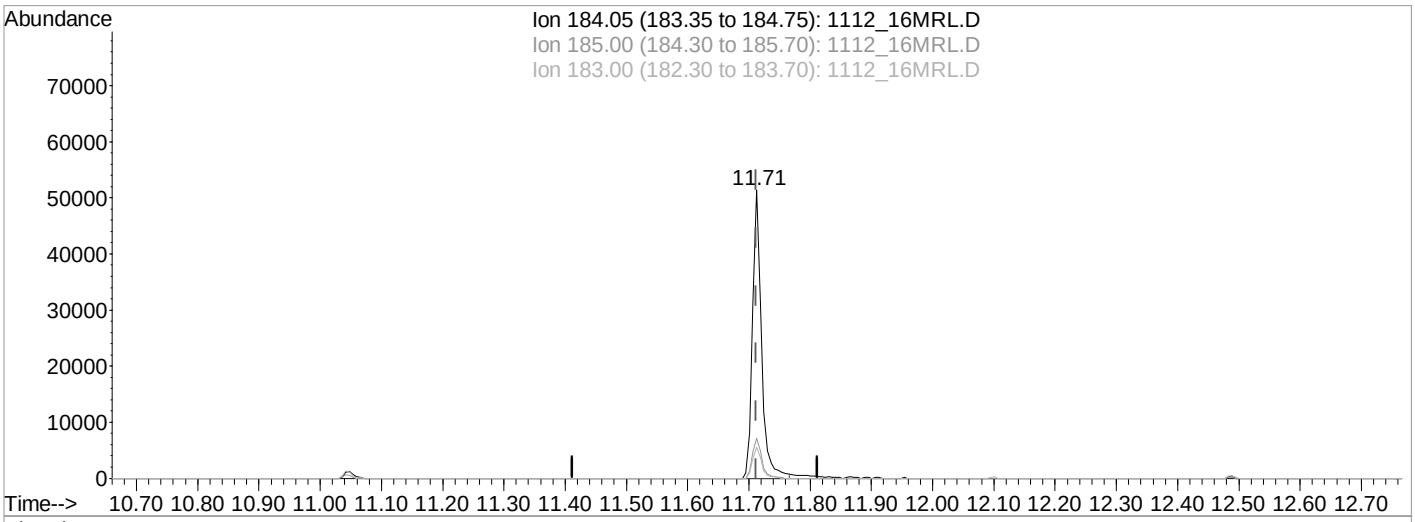
response 54518

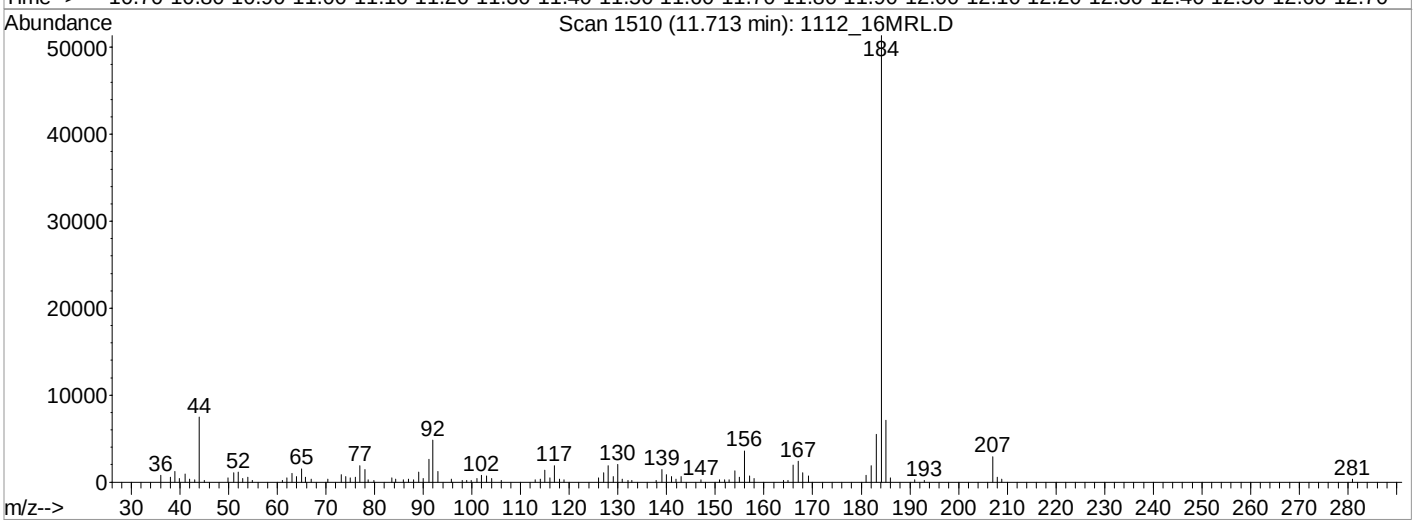
Ion	Exp%	Act%
184.05	100	100
185.00	14.30	13.89
183.00	11.60	10.53
0.00	0.00	0.00

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\111214\1112 16MRL.D Vial: 14
Acq On : 12 Nov 2014 3:56 pm Operator: 280
Sample : MRL TCL 2K1 PPB 14G21532 Inst : BNAMS11
Misc : 8270 TCL Calibration Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Nov 12 21:17 2014 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\S811K12N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Wed Nov 12 20:49:50 2014
Response via : Single Level Calibration





TIC: 1112_16MRL.D

(79) Benzidine (MT)

11.71min (+0.001) 1407.7680848 ppb

Qvalue = 99

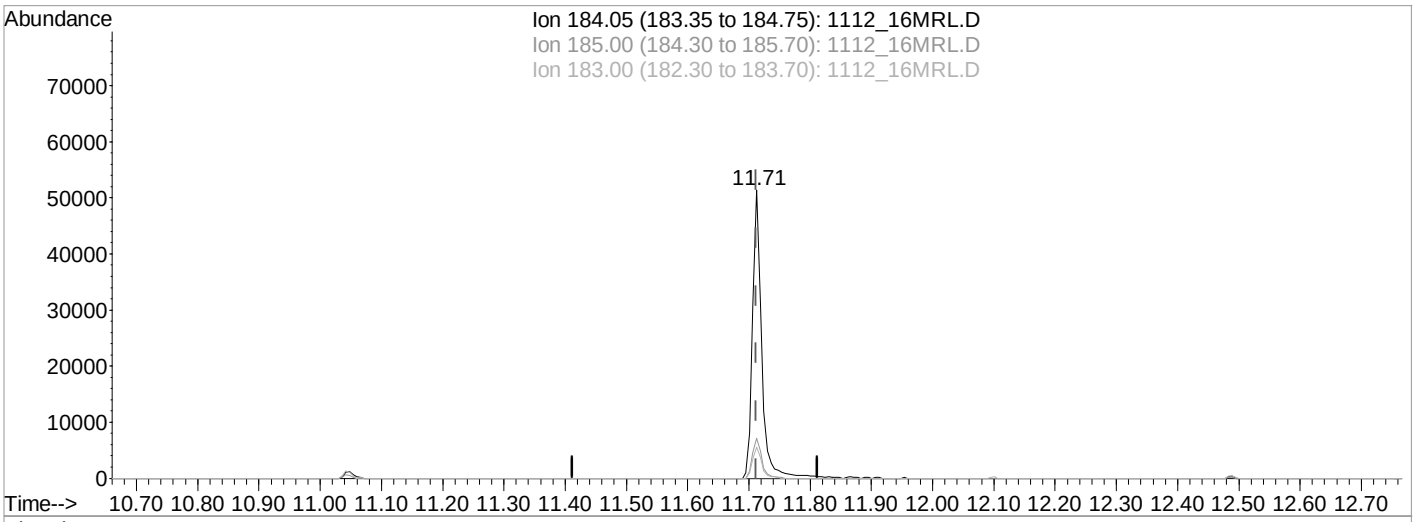
response 52076

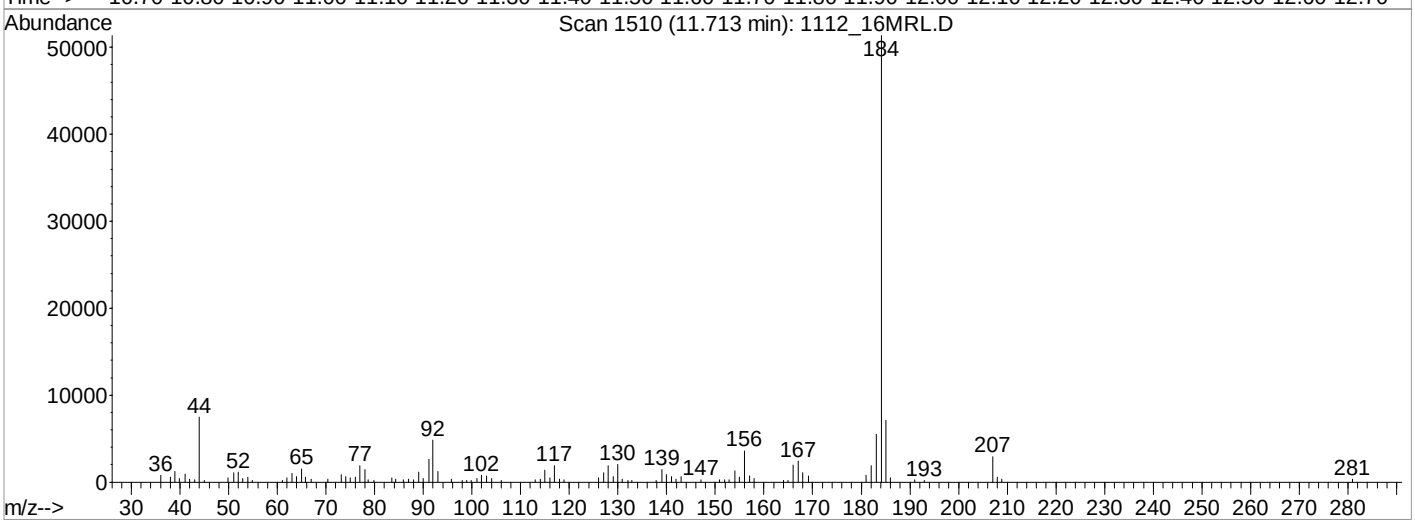
Ion	Exp%	Act%
184.05	100	100
185.00	14.30	14.55
183.00	11.60	11.02
0.00	0.00	0.00

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\111214\1112 16MRL.D Vial: 14
Acq On : 12 Nov 2014 3:56 pm Operator: 280
Sample : MRL TCL 2K1 PPB 14G21532 Inst : BNAMS11
Misc : 8270 TCL Calibration Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Nov 12 21:17 2014 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\S811K12N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Wed Nov 12 20:49:50 2014
Response via : Single Level Calibration





TIC: 1112_16MRL.D

(79) Benzidine (MT)

11.71min (+0.001) 1462.8694963 ppb m

response 54517

Ion	Exp%	Act%
184.05	100	100
185.00	14.30	13.89
183.00	11.60	10.53
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\111214\1112 22.D Vial: 20
Acq On : 12 Nov 2014 6:04 pm Operator: 280
Sample : SSCV SVMS 10K PPB 14I30242 Inst : BNAMS11
Misc : 8270 sscv Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Nov 13 15:35 2014 Quant Results File: S811K12AN.RES

Quant Method : C:\MSDCHEM\1\METHODS\S811K12AN.M (RTE Integrator)
Title : 8270 BNA
Last Update : Thu Nov 13 14:05:28 2014
Response via : Initial Calibration
DataAcq Meth : BNA11A

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	5.48	152	94699	8000.00 ppb	0.00
22) Naphthalene-d8	6.77	136	411637	8000.00 ppb	0.00
40) Acenaphthene-d10	8.65	164	241394	8000.00 ppb	0.00
64) Phenanthrene-d10	10.28	188	437573	8000.00 ppb	0.00
78) Chrysene-d12	13.16	240	538474	8000.00 ppb	-0.02
88) Perylene-d12	14.67	264	663384	8000.00 ppb	-0.05

System Monitoring Compounds

4) 2-Fluorophenol	0.00	112	0	0.0000000 ppb	
Spiked Amount 20.000	Range 10 - 74		Recovery = 0.00%#		
7) Phenol-d5	5.28	99	10874	471.7340418 ppb	0.20
Spiked Amount 20.000	Range 10 - 63		Recovery = 2358.67%#		
23) Nitrobenzene-d5	5.98	82	22726	1025.7117817 ppb	-0.03
Spiked Amount 10.000	Range 28 - 123		Recovery = 10257.12%#		
44) 2-Fluorobiphenyl	7.84	172	179	4.5597992 ppb	-0.06
Spiked Amount 10.000	Range 35 - 133		Recovery = 45.60%		
67) 2,4,6-Tribromophenol	0.00	330	0	0.0000000 ppb	
Spiked Amount 20.000	Range 22 - 154		Recovery = 0.00%#		
81) p-Terphenyl-d14	0.00	244	0	0.0000000 ppb	
Spiked Amount 10.000	Range 30 - 148		Recovery = 0.00%#		

Target Compounds

						Qvalue
2) Pyridine	3.47	79	256612	9890.6909097 ppb		99
3) N-Nitrosodimethylamine	3.44	42	146549	9729.0048396 ppb		97
5) Aniline	5.18	66	118487	9703.4629497 ppb		96
6) bis(2-Chloroethyl)ether	5.21	63	161981	10020.4927444 ppb		94
8) Phenol	5.10	94	231578	9842.8723221 ppb		99
9) Benzaldehyde	5.10	105	547	59.9397263 ppb	#	1
10) 2-Chlorophenol	5.28	128	182690	10049.5156562 ppb		98
11) n-Decane	5.18	41	18255	1271.7371290 ppb	#	29
12) 1,3-Dichlorobenzene	5.44	146	191493	9614.3392012 ppb		99
13) 1,4-Dichlorobenzene	5.50	146	196998	9776.0996760 ppb		96
14) Benzyl Alcohol	5.59	79	177753	10030.4216715 ppb		99
15) 1,2-Dichlorobenzene	5.65	146	187472	9751.7925258 ppb		97
16) bis(2-Chloroisopropyl)ethe	5.72	121	70171	11695.7424226 ppb		95
17) 2-Methylphenol	5.67	108	171347	10021.1452233 ppb		97
18) Hexachloroethane	5.98	117	83338	9656.0400524 ppb		95
19) N-Nitrosodi-n-propylamine	5.85	70	158170	9909.4146218 ppb		99
20) 3&4-Methyl phenol	5.82	107	191196	9721.0601186 ppb		96
21) Acetophenone	5.82	105	1822	69.0999327 ppb	#	1
24) Nitrobenzene	6.04	77	225567	9989.2745976 ppb		99
25) Isophorone	6.27	82	410864	10564.7369196 ppb		99
26) 2-Nitrophenol	6.35	139	95005	10471.6785906 ppb		91
27) 2,4-Dimethylphenol	6.37	107	188512	9692.9140252 ppb		99
28) bis(2-Chlorethoxy)methane	6.47	93	248010	10214.3014363 ppb		99
29) 2,4-Dichlorophenol	6.60	162	144435	9690.7537181 ppb		94
30) Benzoic Acid	6.37	105	6909	1260.9598491 ppb	#	1
31) 1,2,4-Trichlorobenzene	6.70	180	157095	9402.5992905 ppb		97
32) Naphthalene	6.79	128	569574	9510.1674677 ppb		100
33) 4-Chloroaniline	6.82	65	84153	9742.4276471 ppb		93
34) Hexachloro-1,3-butadiene	6.90	225	100496	10550.5576610 ppb		99
35) Caprolactam	7.31	113	5060	941.2059404 ppb	#	28
36) 4-Chloro-3-methylphenol	7.31	107	174030	9829.4529866 ppb		97
37) 2-Methylnaphthalene	7.52	142	379853	9497.7756467 ppb		99
38) 1-Methylnaphthalene	7.62	142	359941	9732.7179949 ppb		98

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\111214\1112 22.D Vial: 20
Acq On : 12 Nov 2014 6:04 pm Operator: 280
Sample : SSCV SVMS 10K PPB 14I30242 Inst : BNAMS11
Misc : 8270 sscv Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Nov 13 15:35 2014 Quant Results File: S811K12AN.RES

Quant Method : C:\MSDCHEM\1\METHODS\S811K12AN.M (RTE Integrator)
Title : 8270 BNA
Last Update : Thu Nov 13 14:05:28 2014
Response via : Initial Calibration
DataAcq Meth : BNA11A

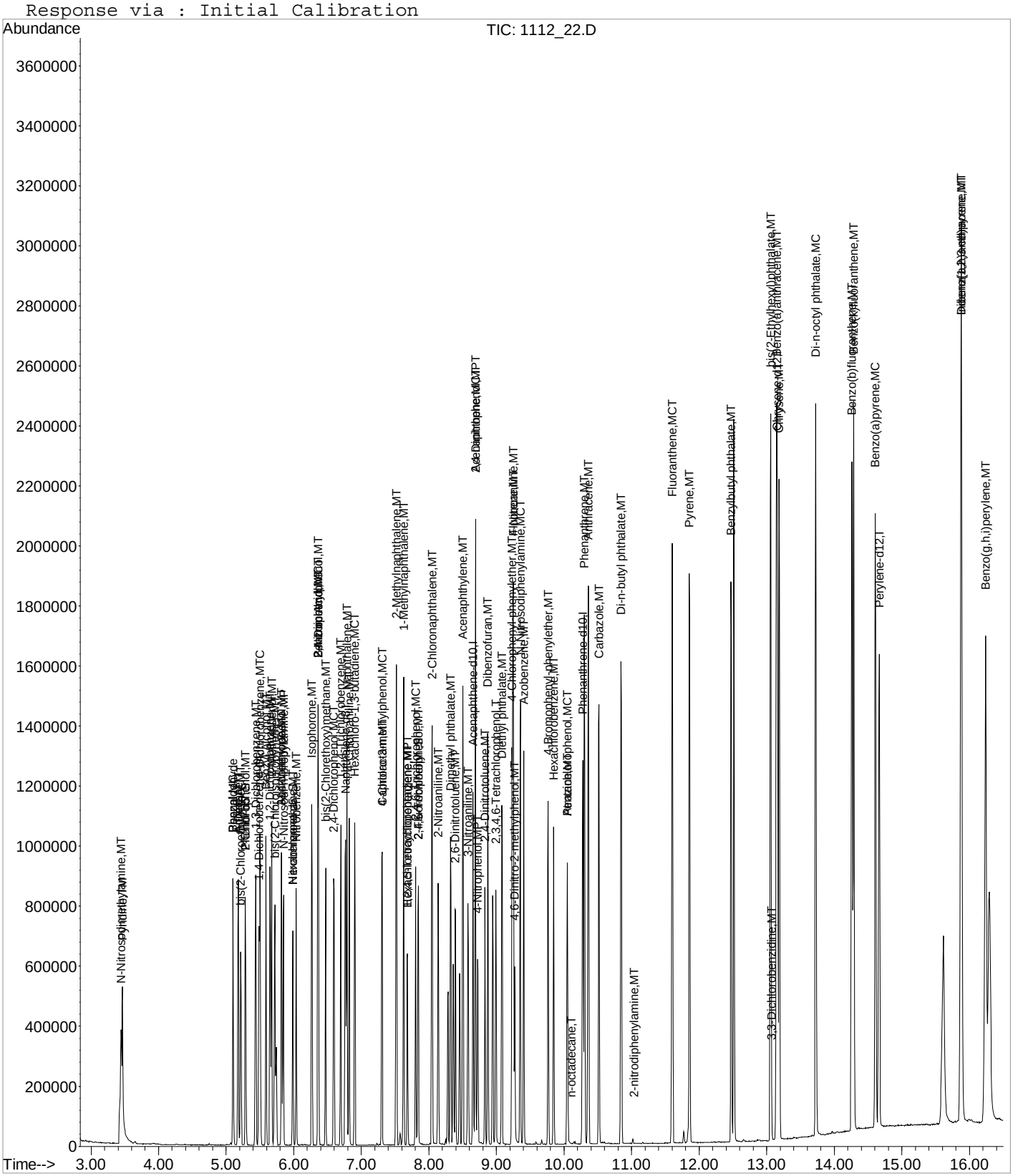
	Compound	R.T.	QIon	Response	Conc Unit		Qvalue
39)	1,2,4,5-Tetrachlorobenzene	7.69	216	220	13.4433424 ppb	#	30
41)	Hexachlorocyclopentadiene	7.68	237	91320	9214.1888747 ppb		99
42)	2,4,6-Trichlorophenol	7.80	196	102629	10275.9915475 ppb		92
43)	2,4,5-Trichlorophenol	7.84	196	109971	10072.8670402 ppb		99
45)	Biphenyl	0.00	154	0	N.D.		
46)	2-Chloronaphthalene	8.05	162	352902	10114.6466916 ppb		99
47)	2-Nitroaniline	8.14	138	121287	10889.5421729 ppb		97
48)	Acenaphthylene	8.50	152	568318	10488.7198167 ppb		100
49)	Dimethyl phthalate	8.32	163	360637	9488.6012117 ppb		96
50)	2,6-Dinitrotoluene	8.40	165	88153	10417.6043110 ppb		95
51)	3-Nitroaniline	8.58	138	100136	9900.7696834 ppb		88
52)	Acenaphthene	8.69	153	373017	10303.6045792 ppb		100
53)	2,4-Dinitrophenol	8.69	184	37880	9686.7410508 ppb	#	84
54)	Dibenzofuran	8.87	168	475424	9710.5284561 ppb		99
55)	2,4-Dinitrotoluene	8.83	165	118488	10709.9695411 ppb		90
56)	2,3,4,6-Tetrachlorophenol	8.99	232	82028	10889.7385225 ppb		99
57)	4-Nitrophenol	8.72	139	83007	10761.6308939 ppb		95
58)	Fluorene	9.25	166	403177	9880.4209555 ppb		99
59)	4-Chlorophenyl-phenylether	9.23	204	181996	9570.1439040 ppb		94
60)	Diethyl phthalate	9.08	149	412967	10057.2059078 ppb		99
61)	4-Nitroaniline	9.24	138	96575	10201.4307123 ppb		99
62)	Azobenzene	9.40	77	517782	10436.2088743 ppb		98
63)	Atrazine	10.05	200	15512	1445.9685840 ppb	#	19
65)	4,6-Dinitro-2-methylphenol	9.27	198	58402	9724.3362801 ppb		88
66)	N-Nitrosodiphenylamine	9.35	169	336881	9694.6361804 ppb		99
68)	4-Bromophenyl-phenylether	9.77	248	116395	9506.9190843 ppb		95
69)	Hexachlorobenzene	9.85	284	138245	9472.0234358 ppb		99
70)	n-octadecane	10.11	55	131	15.0196193 ppb	#	28
71)	Pentachlorophenol	10.05	266	94333	11913.6537784 ppb		97
72)	Phenanthrene	10.30	178	630408	10041.1143823 ppb		99
73)	Anthracene	10.36	178	652348	10271.4165015 ppb		100
74)	Carbazole	10.52	167	597449	9773.9238065 ppb		99
75)	Di-n-butyl phthalate	10.84	149	818773	10101.1468128 ppb		99
76)	2-nitrodiphenylamine	11.04	167	153	9.6780643 ppb	#	23
77)	Fluoranthene	11.60	202	754823	9931.0707410 ppb		99
79)	Benzidine	0.00	184	0	N.D.		
80)	Pyrene	11.85	202	788374	9888.8382476 ppb		99
82)	Benzylbutyl phthalate	12.47	149	436366	10713.8179333 ppb		95
83)	3,3-Dichlorobenzidine	13.08	252	211	6.7668469 ppb	#	33
84)	Benzo(a)anthracene	13.14	228	849745	9998.0344448 ppb		98
85)	Chrysene	13.18	228	799868	10393.0387949 ppb		99
86)	bis(2-Ethylhexyl)phthalate	13.06	149	646414	10607.5948090 ppb		99
87)	Di-n-octyl phthalate	13.72	149	1127676	10868.4537492 ppb		100
89)	Benzo(b)fluoranthene	14.26	252	931980	9680.9701833 ppb		97
90)	Benzo(k)fluoranthene	14.29	252	940031	10878.2563524 ppb		97
91)	Benzo(a)pyrene	14.61	252	909117	10073.3437311 ppb		99
92)	Indeno(1,2,3-cd)pyrene	15.88	276	1139148	10293.8905679 ppb		99
93)	Dibenz(a,h)anthracene	15.88	278	984874	10689.9287632 ppb		100
94)	Benzo(g,h,i)perylene	16.24	276	996776	10635.7807436 ppb		98

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\111214\1112 22.D Vial: 20
Acq On : 12 Nov 2014 6:04 pm Operator: 280
Sample : SSCV SVMS 10K PPB 14I30242 Inst : BNAMS11
Misc : 8270 sscv Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Nov 13 15:35 2014 Quant Results File: S811K12AN.RES

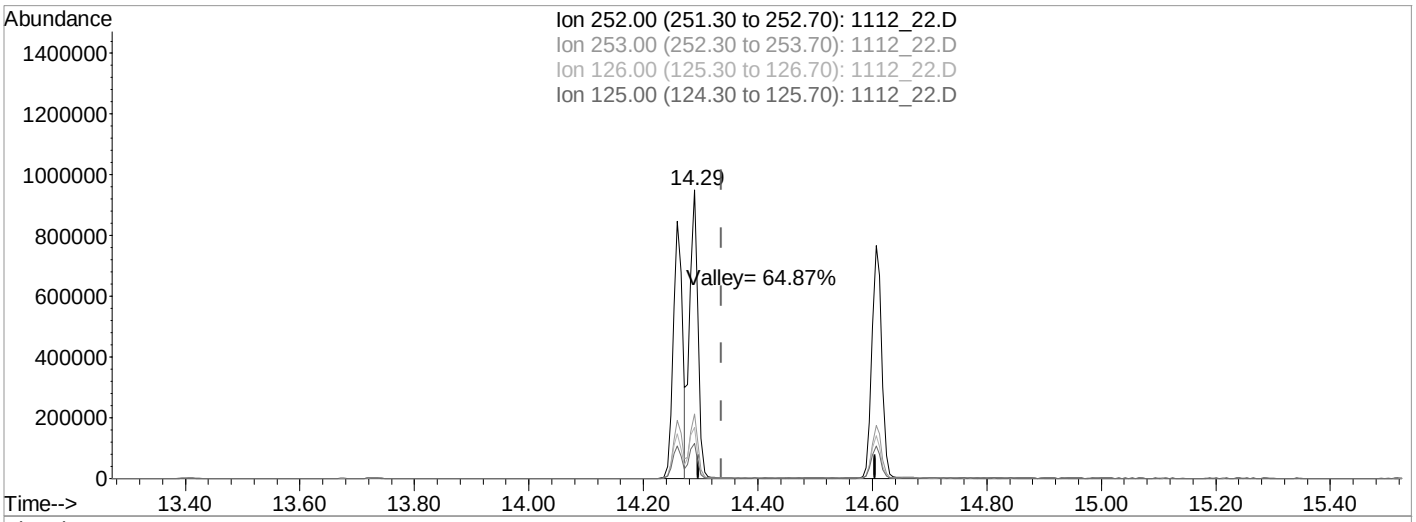
Method : C:\MSDCHEM\1\METHODS\S811K12AN.M (RTE Integrator)
Title : 8270 BNA
Last Update : Thu Nov 13 14:05:28 2014
Response via : Initial Calibration

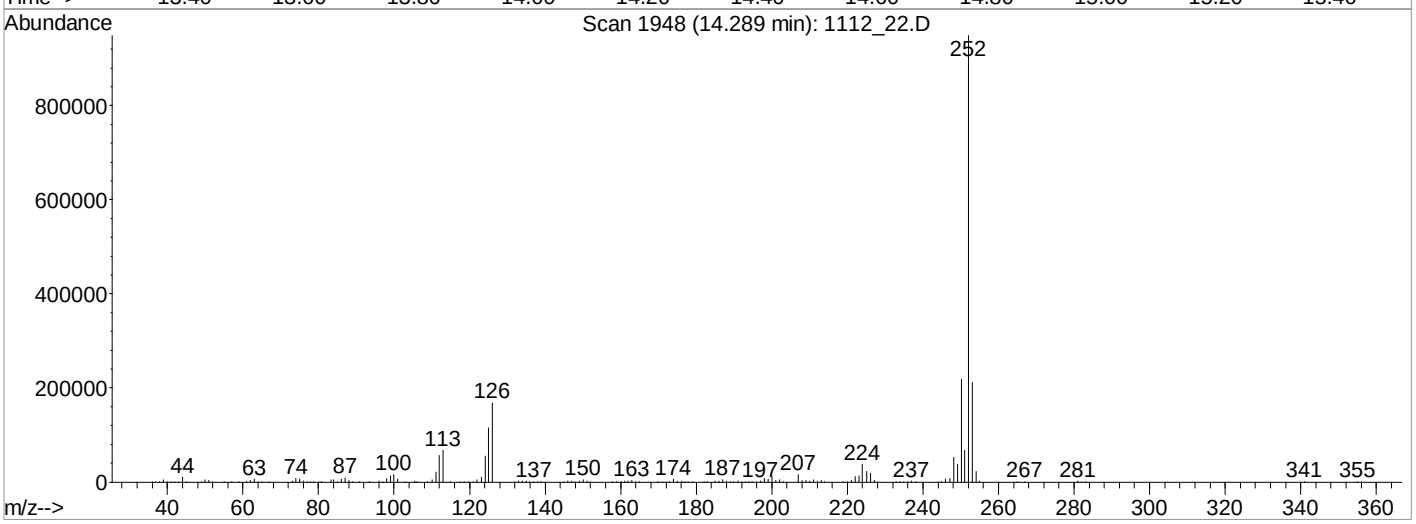


Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\111214\1112 22.D Vial: 20
Acq On : 12 Nov 2014 6:04 pm Operator: 280
Sample : SSCV SVMS 10K PPB 14I30242 Inst : BNAMS11
Misc : 8270 sscv Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Nov 12 21:19 2014 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\S811K12N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Wed Nov 12 20:49:50 2014
Response via : Multiple Level Calibration





TIC: 1112_22.D

(90) Benzo(k)fluoranthene (MT)

14.29min (-0.047) 10878.2563524 ppb

Qvalue = 97

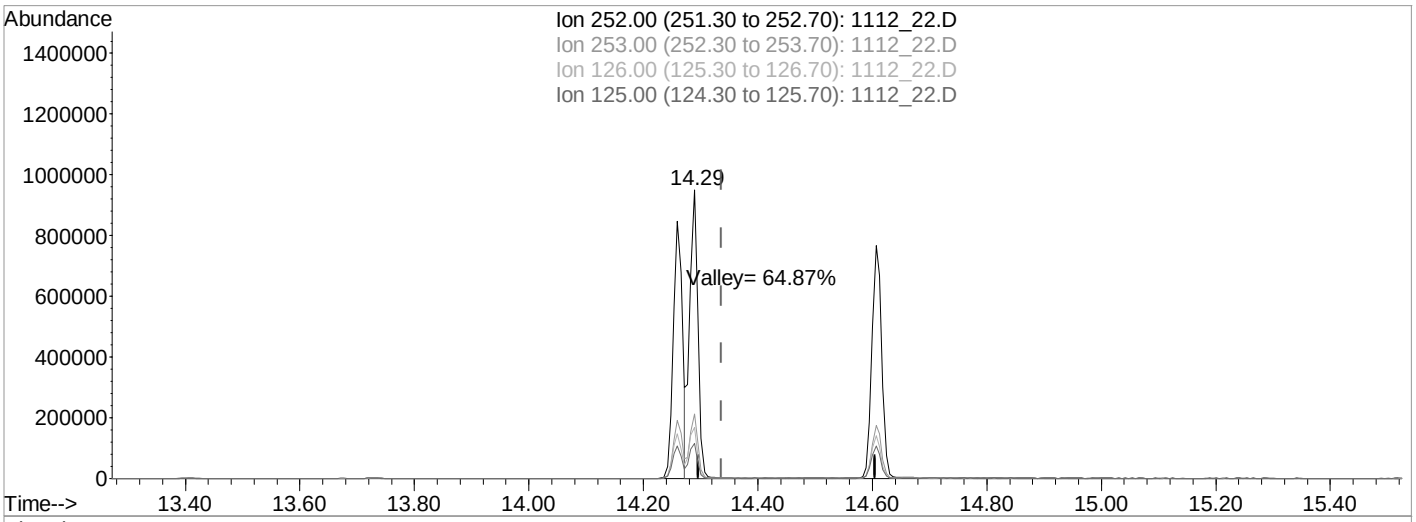
response 940031

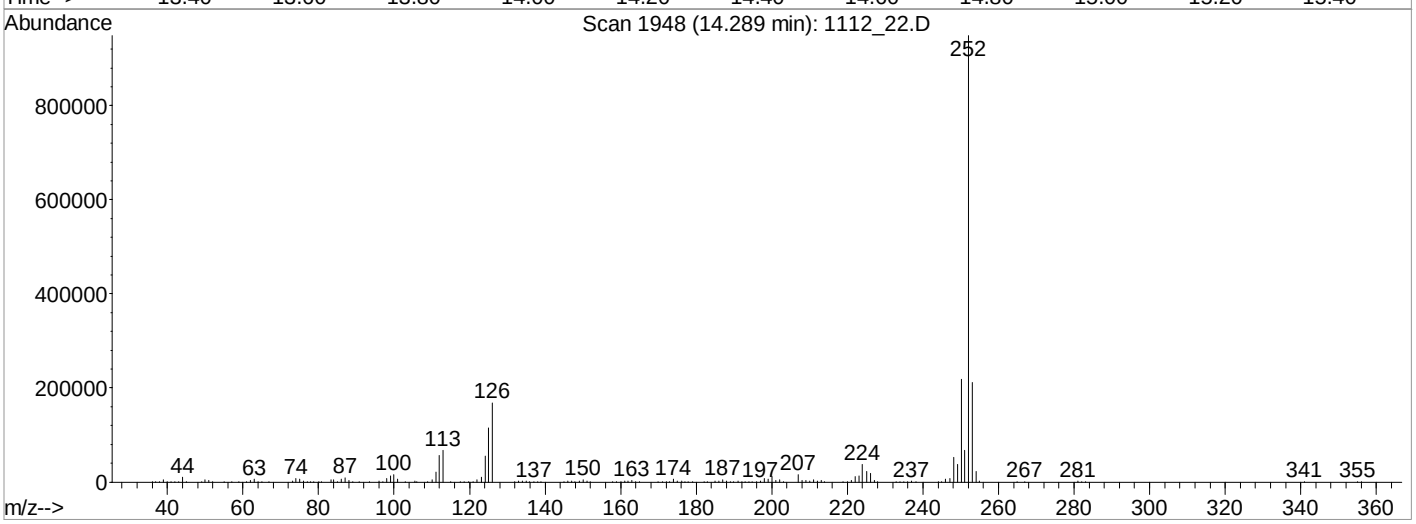
Ion	Exp%	Act%
252.00	100	100
253.00	21.90	22.26
126.00	16.00	17.72
125.00	10.50	12.14

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\111214\1112 22.D Vial: 20
Acq On : 12 Nov 2014 6:04 pm Operator: 280
Sample : SSCV SVMS 10K PPB 14I30242 Inst : BNAMS11
Misc : 8270 sscv Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Nov 13 14:49 2014 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\S811K12N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Thu Nov 13 14:05:28 2014
Response via : Multiple Level Calibration





TIC: 1112_22.D

(90) Benzo(k)fluoranthene (MT)

14.29min (-0.047) 10878.2563524 ppb

Qvalue = 97

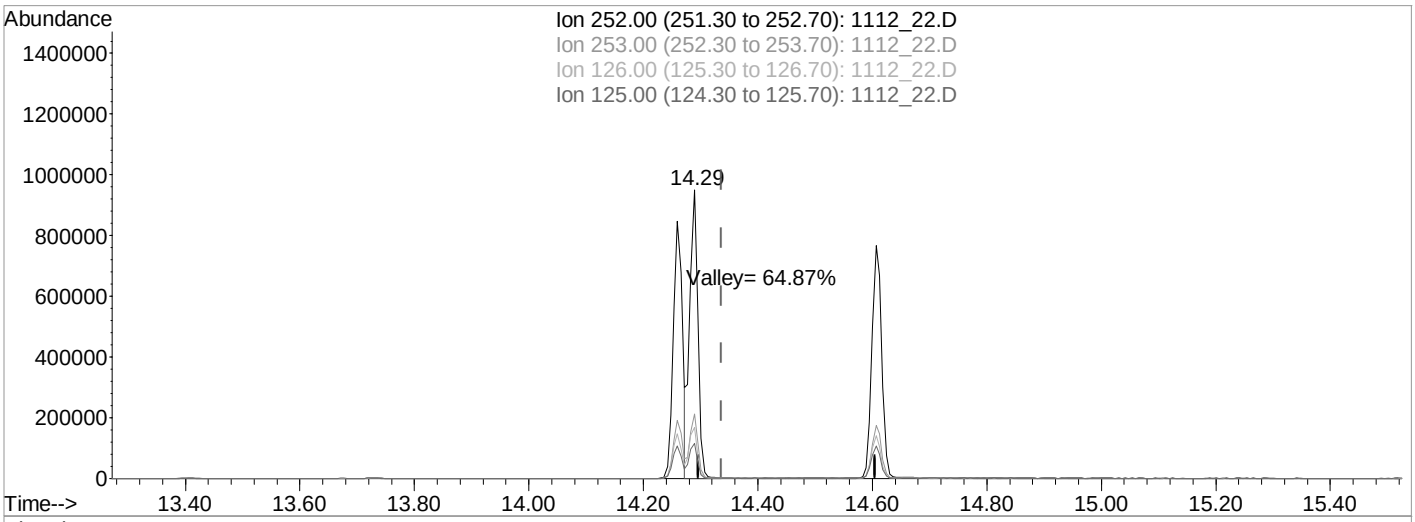
response 940031

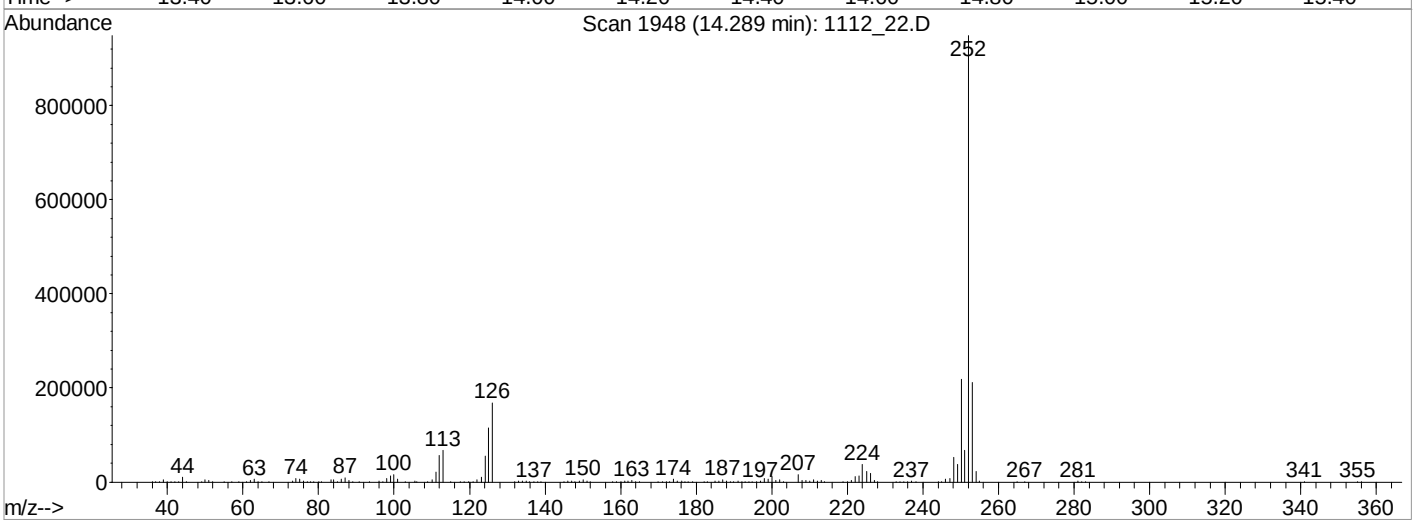
Ion	Exp%	Act%
252.00	100	100
253.00	21.90	22.26
126.00	16.00	17.72
125.00	10.50	12.14

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\111214\1112 22.D Vial: 20
Acq On : 12 Nov 2014 6:04 pm Operator: 280
Sample : SSCV SVMS 10K PPB 14I30242 Inst : BNAMS11
Misc : 8270 sscv Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Nov 13 15:35 2014 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\S811K12AN.M (RTE Integrator)
Title : 8270 BNA
Last Update : Thu Nov 13 14:05:28 2014
Response via : Multiple Level Calibration





TIC: 1112_22.D

(90) Benzo(k)fluoranthene (MT)

14.29min (-0.047) 10878.2563524 ppb

Qvalue = 97

response 940031

Ion	Exp%	Act%
252.00	100	100
253.00	21.90	22.26
126.00	16.00	17.72
125.00	10.50	12.14

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\111214\1112 04.D Vial: 2
Acq On : 12 Nov 2014 11:42 am Operator: 280
Sample : MSTD SVMS 10K PPB 14K07412 Inst : BNAMS11
Misc : 8270 Primary Calibration Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Nov 12 19:20 2014 Quant Results File: S811K12N.RES

Quant Method : C:\MSDCHEM\1\METHODS\S811K12N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Wed Nov 12 19:17:55 2014
Response via : Initial Calibration
DataAcq Meth : BNA11A

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	5.48	152	101718	8000.00 ppb	0.00
22) Naphthalene-d8	6.77	136	426831	8000.00 ppb	0.00
40) Acenaphthene-d10	8.65	164	259793	8000.00 ppb	0.00
64) Phenanthrene-d10	10.28	188	468019	8000.00 ppb	0.00
78) Chrysene-d12	13.18	240	576249	8000.00 ppb	0.00
88) Perylene-d12	14.71	264	705133	8000.00 ppb	0.00

System Monitoring Compounds

4) 2-Fluorophenol	4.35	112	177519	10000.0000000 ppb	0.00
Spiked Amount 20.000	Range 10 - 74		Recovery = 50000.00%#		
7) Phenol-d5	5.08	99	244096	10000.0000000 ppb	0.00
Spiked Amount 20.000	Range 10 - 63		Recovery = 50000.00%#		
23) Nitrobenzene-d5	6.01	82	233385	10000.0000000 ppb	0.00
Spiked Amount 10.000	Range 28 - 123		Recovery = 100000.00%#		
44) 2-Fluorobiphenyl	7.90	172	423001	10000.0000000 ppb	0.00
Spiked Amount 10.000	Range 35 - 133		Recovery = 100000.00%#		
67) 2,4,6-Tribromophenol	9.51	330	68240	10000.0000000 ppb	0.00
Spiked Amount 20.000	Range 22 - 154		Recovery = 50000.00%#		
81) p-Terphenyl-d14	11.99	244	691236	10000.0000000 ppb	0.00
Spiked Amount 10.000	Range 30 - 148		Recovery = 100000.00%#		

Target Compounds

					Qvalue
2) Pyridine	3.45	79	270356	10000.0000000 ppb	100
3) N-Nitrosodimethylamine	3.43	42	149790	10000.0000000 ppb	100
5) Aniline	5.17	66	124848	10000.0000000 ppb	100
6) bis(2-Chloroethyl)ether	5.21	63	167020	10000.0000000 ppb	100
8) Phenol	5.10	94	246884	10000.0000000 ppb	100
9) Benzaldehyde	0.00	105	0	N.D. d	
10) 2-Chlorophenol	5.28	128	194094	10000.0000000 ppb	100
11) n-Decane	5.30	41	142953	10000.0000000 ppb	100
12) 1,3-Dichlorobenzene	5.43	146	210433	10000.0000000 ppb	100
13) 1,4-Dichlorobenzene	5.50	146	210479	10000.0000000 ppb	100
14) Benzyl Alcohol	5.58	79	181995	10000.0000000 ppb	100
15) 1,2-Dichlorobenzene	5.65	146	200554	10000.0000000 ppb	100
16) bis(2-Chloroisopropyl)ethe	5.72	121	62372	10000.0000000 ppb	100
17) 2-Methylphenol	5.67	108	176880	10000.0000000 ppb	100
18) Hexachloroethane	5.98	117	89433	10000.0000000 ppb	100
19) N-Nitrosodi-n-propylamine	5.84	70	158857	10000.0000000 ppb	100
20) 3&4-Methyl phenol	5.82	107	204822	10000.0000000 ppb	100
21) Acetophenone	0.00	105	0	N.D. d	
24) Nitrobenzene	6.03	77	234912	10000.0000000 ppb	100
25) Isophorone	6.27	82	406510	10000.0000000 ppb	100
26) 2-Nitrophenol	6.35	139	101922	10000.0000000 ppb	100
27) 2,4-Dimethylphenol	6.36	107	204626	10000.0000000 ppb	100
28) bis(2-Chlorethoxy)methane	6.47	93	253411	10000.0000000 ppb	100
29) 2,4-Dichlorophenol	6.59	162	156799	10000.0000000 ppb	100
30) Benzoic Acid	0.00	105	0	N.D. d	
31) 1,2,4-Trichlorobenzene	6.70	180	175220	10000.0000000 ppb	100
32) Naphthalene	6.79	128	603067	10000.0000000 ppb	100
33) 4-Chloroaniline	6.82	65	86133	10000.0000000 ppb	100
34) Hexachloro-1,3-butadiene	6.90	225	99330	10000.0000000 ppb	100
35) Caprolactam	0.00	113	0	N.D. d	
36) 4-Chloro-3-methylphenol	7.31	107	189864	10000.0000000 ppb	100
37) 2-Methylnaphthalene	7.52	142	416350	10000.0000000 ppb	100
38) 1-Methylnaphthalene	7.63	142	392673	10000.0000000 ppb	100

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\111214\1112 04.D Vial: 2
Acq On : 12 Nov 2014 11:42 am Operator: 280
Sample : MSTD SVMS 10K PPB 14K07412 Inst : BNAMS11
Misc : 8270 Primary Calibration Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Nov 12 19:20 2014 Quant Results File: S811K12N.RES

Quant Method : C:\MSDCHEM\1\METHODS\S811K12N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Wed Nov 12 19:17:55 2014
Response via : Initial Calibration
DataAcq Meth : BNA11A

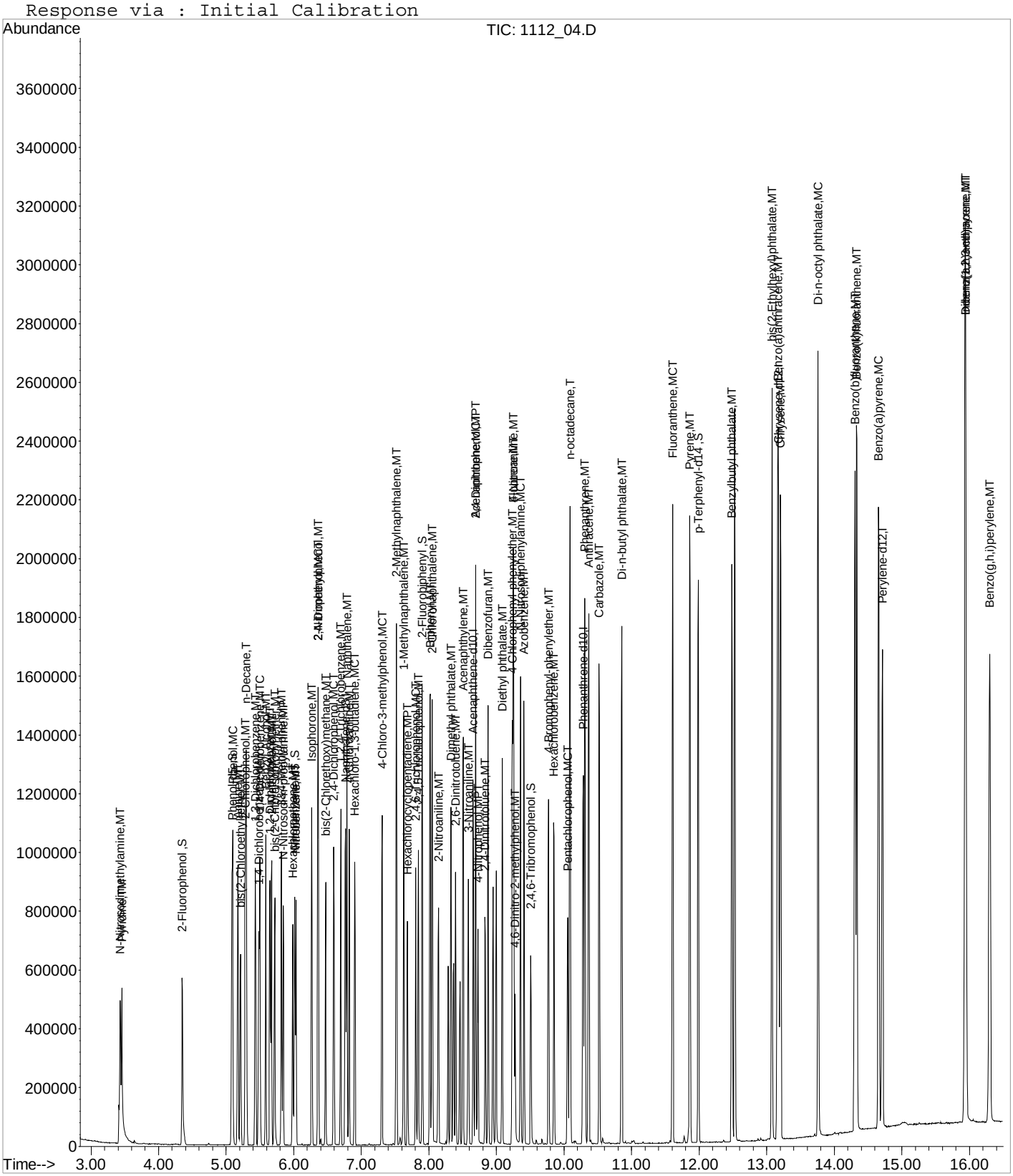
	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
39)	1,2,4,5-Tetrachlorobenzene	0.00	216	0	N.D. d		
41)	Hexachlorocyclopentadiene	7.68	237	109510	10000.0000000	ppb	100
42)	2,4,6-Trichlorophenol	7.81	196	111219	10000.0000000	ppb	100
43)	2,4,5-Trichlorophenol	7.84	196	122320	10000.0000000	ppb	100
45)	Biphenyl	8.02	154	484153	10000.0000000	ppb	100
46)	2-Chloronaphthalene	8.05	162	376867	10000.0000000	ppb	100
47)	2-Nitroaniline	8.14	138	125219	10000.0000000	ppb	100
48)	Acenaphthylene	8.51	152	588736	10000.0000000	ppb	100
49)	Dimethyl phthalate	8.32	163	393731	10000.0000000	ppb	100
50)	2,6-Dinitrotoluene	8.40	165	93835	10000.0000000	ppb	100
51)	3-Nitroaniline	8.58	138	112610	10000.0000000	ppb	100
52)	Acenaphthene	8.69	153	386065	10000.0000000	ppb	100
53)	2,4-Dinitrophenol	8.70	184	40428	10000.0000000	ppb	100
54)	Dibenzofuran	8.88	168	516402	10000.0000000	ppb	100
55)	2,4-Dinitrotoluene	8.84	165	127269	10000.0000000	ppb	100
56)	2,3,4,6-Tetrachlorophenol	0.00	232	0	N.D. d		
57)	4-Nitrophenol	8.72	139	89844	10000.0000000	ppb	100
58)	Fluorene	9.25	166	429330	10000.0000000	ppb	100
59)	4-Chlorophenyl-phenylether	9.24	204	199218	10000.0000000	ppb	100
60)	Diethyl phthalate	9.08	149	449667	10000.0000000	ppb	100
61)	4-Nitroaniline	9.25	138	98078	10000.0000000	ppb	100
62)	Azobenzene	9.41	77	524270	10000.0000000	ppb	100
63)	Atrazine	0.00	200	0	N.D. d		
65)	4,6-Dinitro-2-methylphenol	9.28	198	62335	10000.0000000	ppb	100
66)	N-Nitrosodiphenylamine	9.35	169	368511	10000.0000000	ppb	100
68)	4-Bromophenyl-phenylether	9.77	248	129795	10000.0000000	ppb	100
69)	Hexachlorobenzene	9.85	284	152961	10000.0000000	ppb	100
70)	n-octadecane	10.09	55	95730	10000.0000000	ppb	100
71)	Pentachlorophenol	10.05	266	87763	10000.0000000	ppb	100
72)	Phenanthrene	10.31	178	679482	10000.0000000	ppb	100
73)	Anthracene	10.37	178	696084	10000.0000000	ppb	100
74)	Carbazole	10.52	167	663910	10000.0000000	ppb	100
75)	Di-n-butyl phthalate	10.85	149	905153	10000.0000000	ppb	100
76)	2-nitrodiphenylamine	0.00	167	0	N.D. d		
77)	Fluoranthene	11.61	202	831275	10000.0000000	ppb	100
79)	Benzidine	0.00	184	0	N.D.		
80)	Pyrene	11.86	202	874070	10000.0000000	ppb	100
82)	Benzylbutyl phthalate	12.48	149	454692	10000.0000000	ppb	100
83)	3,3-Dichlorobenzidine	0.00	252	0	N.D.		
84)	Benzo(a)anthracene	13.16	228	918178	10000.0000000	ppb	100
85)	Chrysene	13.20	228	841524	10000.0000000	ppb	100
86)	bis(2-Ethylhexyl)phthalate	13.08	149	680943	10000.0000000	ppb	100
87)	Di-n-octyl phthalate	13.76	149	1200785	10000.0000000	ppb	100
89)	Benzo(b)fluoranthene	14.31	252	1028177	10000.0000000	ppb	100
90)	Benzo(k)fluoranthene	14.34	252	1003078	10000.0000000	ppb	100
91)	Benzo(a)pyrene	14.65	252	1014485	10000.0000000	ppb	100
92)	Indeno(1,2,3-cd)pyrene	15.94	276	1235110	10000.0000000	ppb	100
93)	Dibenz(a,h)anthracene	15.94	278	1049209	10000.0000000	ppb	100
94)	Benzo(g,h,i)perylene	16.30	276	1035540	10000.0000000	ppb	100

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\111214\1112 04.D Vial: 2
Acq On : 12 Nov 2014 11:42 am Operator: 280
Sample : MSTD SVMS 10K PPB 14K07412 Inst : BNAMS11
Misc : 8270 Primary Calibration Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Nov 12 19:20 2014 Quant Results File: S811K12N.RES

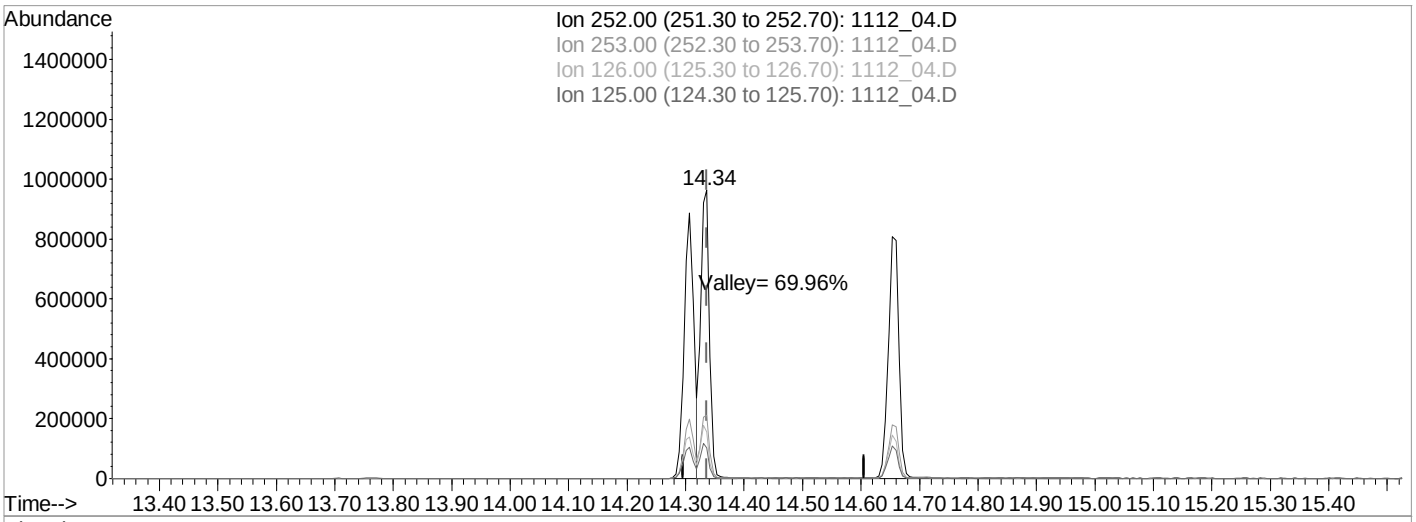
Method : C:\MSDCHEM\1\METHODS\S811K12N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Wed Nov 12 19:17:55 2014
Response via : Initial Calibration

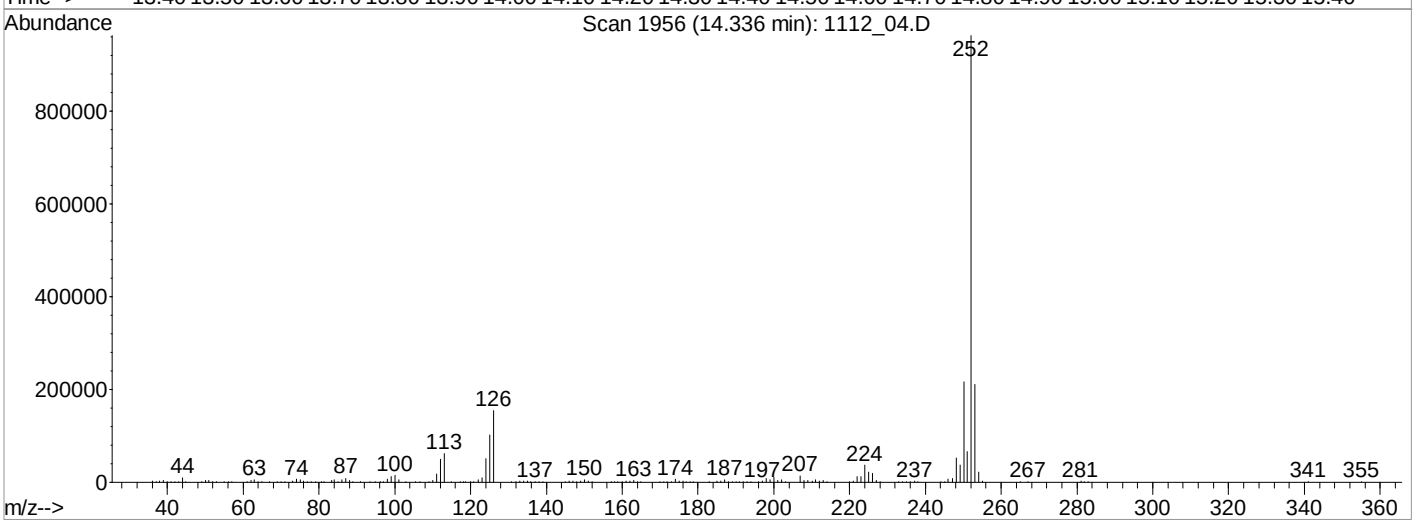


Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\111214\1112 04.D Vial: 2
Acq On : 12 Nov 2014 11:42 am Operator: 280
Sample : MSTD SVMS 10K PPB 14K07412 Inst : BNAMS11
Misc : 8270 Primary Calibration Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Nov 12 19:20 2014 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\S811K12N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Wed Nov 12 19:17:55 2014
Response via : Multiple Level Calibration





TIC: 1112_04.D

(90) Benzo(k)fluoranthene (MT)

14.34min (0.000) 10000.0000000 ppb

Qvalue = 100

response 1003078

Ion	Exp%	Act%
252.00	100	100
253.00	21.90	21.92
126.00	16.00	16.00
125.00	10.50	10.47

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\111214\1112 05.D Vial: 3
Acq On : 12 Nov 2014 12:03 pm Operator: 280
Sample : STD SVMS 200 PPB 14K07412 Inst : BNAMS11
Misc : 8270 Primary Calibration Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Nov 12 19:25 2014 Quant Results File: S811K12N.RES

Quant Method : C:\MSDCHEM\1\METHODS\S811K12N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Wed Nov 12 19:17:55 2014
Response via : Initial Calibration
DataAcq Meth : BNA11A

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	5.48	152	113290	8000.00 ppb	0.00
22) Naphthalene-d8	6.77	136	488269	8000.00 ppb	0.00
40) Acenaphthene-d10	8.65	164	304516	8000.00 ppb	0.00
64) Phenanthrene-d10	10.28	188	543928	8000.00 ppb	0.00
78) Chrysene-d12	13.16	240	712242	8000.00 ppb	-0.02
88) Perylene-d12	14.68	264	856503	8000.00 ppb	-0.04

System Monitoring Compounds					
4) 2-Fluorophenol	4.36	112	4296	217.2829583 ppb	0.01
Spiked Amount 20.000	Range 10 - 74		Recovery = 1086.41%#		
7) Phenol-d5	5.08	99	5790	212.9727980 ppb	0.00
Spiked Amount 20.000	Range 10 - 63		Recovery = 1064.86%#		
23) Nitrobenzene-d5	6.01	82	5610	210.1293530 ppb	0.00
Spiked Amount 10.000	Range 28 - 123		Recovery = 2101.29%#		
44) 2-Fluorobiphenyl	7.90	172	11197	225.8279087 ppb	0.00
Spiked Amount 10.000	Range 35 - 133		Recovery = 2258.28%#		
67) 2,4,6-Tribromophenol	9.51	330	1547	195.0623105 ppb	0.00
Spiked Amount 20.000	Range 22 - 154		Recovery = 975.31%#		
81) p-Terphenyl-d14	11.98	244	17590	205.8837623 ppb	0.00
Spiked Amount 10.000	Range 30 - 148		Recovery = 2058.84%#		

Target Compounds					Qvalue
2) Pyridine	3.47	79	6531	216.8951831 ppb	98
3) N-Nitrosodimethylamine	3.44	42	3965m	237.6657535 ppb	
5) Aniline	5.17	66	3128	224.9527934 ppb	97
6) bis(2-Chloroethyl)ether	5.21	63	4307	231.5328555 ppb	98
8) Phenol	5.10	94	6230	226.5694430 ppb	95
9) Benzaldehyde	0.00	105	0	N.D. d	
10) 2-Chlorophenol	5.28	128	4709	217.8325702 ppb	94
11) n-Decane	5.30	41	3998m	251.1052261 ppb	
12) 1,3-Dichlorobenzene	5.44	146	5316	226.8179188 ppb	97
13) 1,4-Dichlorobenzene	5.50	146	5575	237.8166930 ppb	93
14) Benzyl Alcohol	5.58	79	4534	223.6805875 ppb	99
15) 1,2-Dichlorobenzene	5.65	146	5063	226.6641493 ppb	94
16) bis(2-Chloroisopropyl)ethe	5.72	121	1617	232.7697742 ppb	94
17) 2-Methylphenol	5.67	108	4450	225.8850648 ppb	93
18) Hexachloroethane	5.98	117	2277	228.5974950 ppb	88
19) N-Nitrosodi-n-propylamine	5.84	70	4242	239.7565845 ppb	98
20) 3&4-Methyl phenol	5.81	107	4847	212.4724632 ppb	96
21) Acetophenone	0.00	105	0	N.D. d	
24) Nitrobenzene	6.04	77	5966	222.0111818 ppb	94
25) Isophorone	6.27	82	10304	221.5804390 ppb	92
26) 2-Nitrophenol	6.35	139	1932	165.7051426 ppb #	77
27) 2,4-Dimethylphenol	6.36	107	5039	215.2684310 ppb	96
28) bis(2-Chlorethoxy)methane	6.47	93	6533	225.3637172 ppb	93
29) 2,4-Dichlorophenol	6.59	162	3825	213.2479932 ppb	94
30) Benzoic Acid	0.00	105	0	N.D. d	
31) 1,2,4-Trichlorobenzene	6.70	180	4584	228.6955610 ppb	99
32) Naphthalene	6.78	128	19228	278.7182144 ppb	99
33) 4-Chloroaniline	6.82	65	2337	237.1843012 ppb	91
34) Hexachloro-1,3-butadiene	6.90	225	2515	221.3371716 ppb	92
35) Caprolactam	0.00	113	0	N.D. d	
36) 4-Chloro-3-methylphenol	7.30	107	4344	200.0064458 ppb	100
37) 2-Methylnaphthalene	7.52	142	10986	230.6629424 ppb	99
38) 1-Methylnaphthalene	7.62	142	9857	219.4373339 ppb	99

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\111214\1112 05.D Vial: 3
Acq On : 12 Nov 2014 12:03 pm Operator: 280
Sample : STD SVMS 200 PPB 14K07412 Inst : BNAMS11
Misc : 8270 Primary Calibration Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Nov 12 19:25 2014 Quant Results File: S811K12N.RES

Quant Method : C:\MSDCHEM\1\METHODS\S811K12N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Wed Nov 12 19:17:55 2014
Response via : Initial Calibration
DataAcq Meth : BNA11A

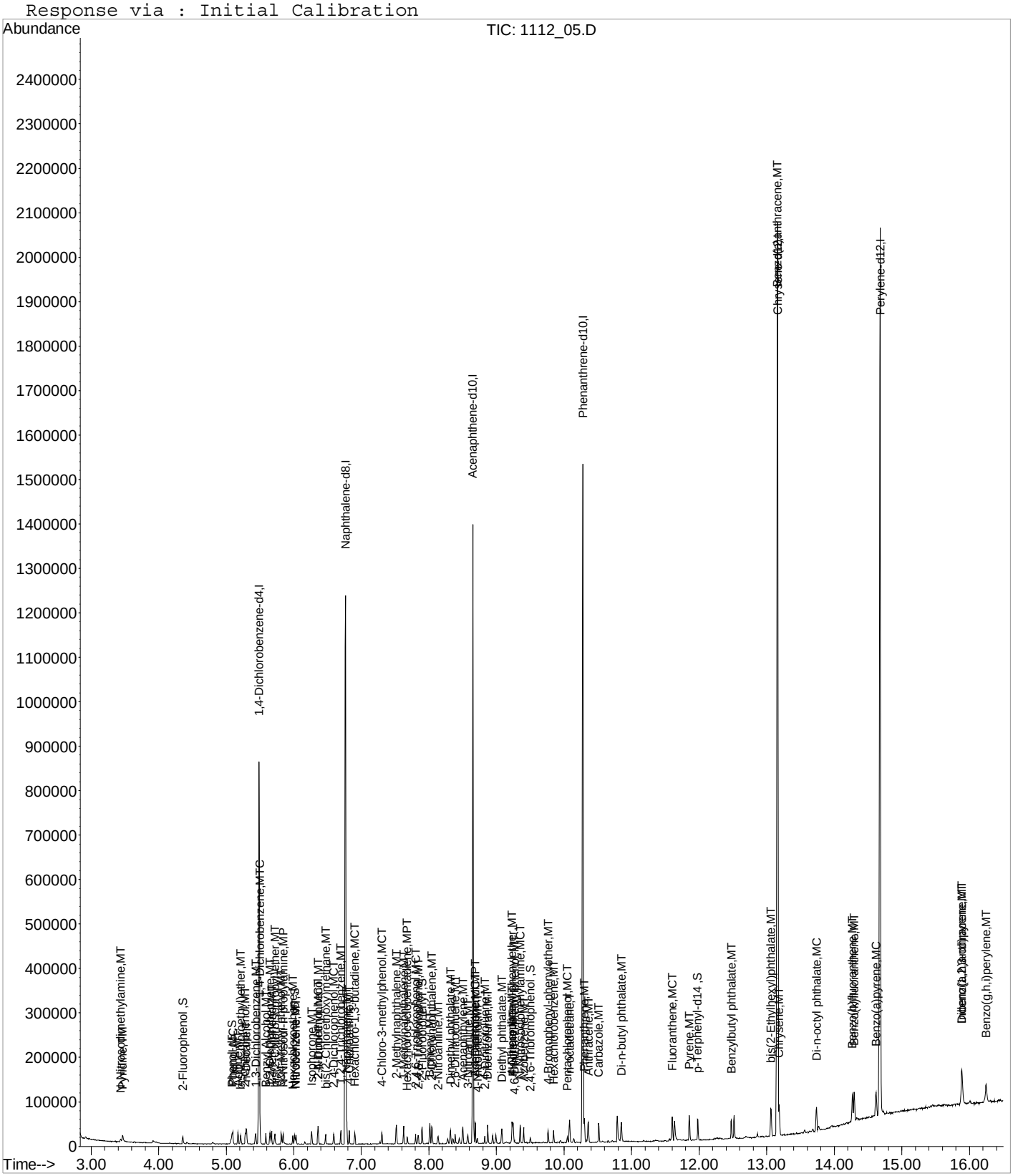
	Compound	R.T.	QIon	Response	Conc Unit		Qvalue
39)	1,2,4,5-Tetrachlorobenzene	0.00	216	0	N.D.		
41)	Hexachlorocyclopentadiene	7.68	237	2439	190.0095152 ppb		97
42)	2,4,6-Trichlorophenol	7.80	196	2377	182.3339433 ppb		93
43)	2,4,5-Trichlorophenol	7.84	196	2735	190.7555519 ppb		95
45)	Biphenyl	8.01	154	12654	222.9782648 ppb		98
46)	2-Chloronaphthalene	8.04	162	10178	230.4048754 ppb		96
47)	2-Nitroaniline	8.14	138	2454	167.1943725 ppb		92
48)	Acenaphthylene	8.50	152	14975	217.0019152 ppb		98
49)	Dimethyl phthalate	8.32	163	10737	232.6487224 ppb		96
50)	2,6-Dinitrotoluene	8.39	165	1915	174.1090110 ppb		95
51)	3-Nitroaniline	8.58	138	2308	174.8542427 ppb		99
52)	Acenaphthene	8.69	153	10485	231.6996258 ppb		97
53)	2,4-Dinitrophenol	8.68	184	472	99.6040666 ppb	#	1
54)	Dibenzofuran	8.87	168	14201	234.6109837 ppb		100
55)	2,4-Dinitrotoluene	8.82	165	2113	141.6426991 ppb		89
56)	2,3,4,6-Tetrachlorophenol	0.00	232	0	N.D. d		
57)	4-Nitrophenol	8.72	139	1422	135.0292470 ppb		93
58)	Fluorene	9.25	166	11535	229.2153464 ppb		92
59)	4-Chlorophenyl-phenylether	9.23	204	5096	218.2318690 ppb		92
60)	Diethyl phthalate	9.08	149	11141	211.3734743 ppb		95
61)	4-Nitroaniline	9.24	138	2227	193.7162015 ppb		94
62)	Azobenzene	9.40	77	12930	210.4073208 ppb		98
63)	Atrazine	0.00	200	0	N.D. d		
65)	4,6-Dinitro-2-methylphenol	9.27	198	731	100.9037907 ppb		88
66)	N-Nitrosodiphenylamine	9.35	169	9721	226.9773680 ppb		98
68)	4-Bromophenyl-phenylether	9.77	248	3375	223.7370373 ppb		97
69)	Hexachlorobenzene	9.85	284	4041	227.3161044 ppb		88
70)	n-octadecane	10.08	55	2418	217.3353176 ppb		93
71)	Pentachlorophenol	10.05	266	1722	168.8277200 ppb		98
72)	Phenanthrene	10.30	178	18515	234.4594968 ppb		98
73)	Anthracene	10.36	178	17646	218.1256267 ppb		99
74)	Carbazole	10.51	167	17718	229.6294342 ppb		97
75)	Di-n-butyl phthalate	10.85	149	22019	209.3137049 ppb		99
76)	2-nitrodiphenylamine	0.00	167	0	N.D.		
77)	Fluoranthene	11.60	202	21605	223.6308011 ppb		97
79)	Benzidine	0.00	184	0	N.D.		
80)	Pyrene	11.85	202	22659	209.7380035 ppb		98
82)	Benzylbutyl phthalate	12.48	149	10658	189.6448300 ppb		93
83)	3,3-Dichlorobenzidine	0.00	252	0	N.D.		
84)	Benzo(a)anthracene	13.15	228	26313	231.8601369 ppb		95
85)	Chrysene	13.18	228	23342	224.4161788 ppb		98
86)	bis(2-Ethylhexyl)phthalate	13.07	149	18849	223.9546889 ppb		99
87)	Di-n-octyl phthalate	13.74	149	28432	191.5687922 ppb		100
89)	Benzo(b)fluoranthene	14.27	252	27090	216.9118468 ppb		98
90)	Benzo(k)fluoranthene	14.29	252	25728	211.1608849 ppb		99
91)	Benzo(a)pyrene	14.62	252	24865	201.7831907 ppb		98
92)	Indeno(1,2,3-cd)pyrene	15.89	276	30659	204.3593436 ppb		98
93)	Dibenz(a,h)anthracene	15.88	278	24929	195.6072745 ppb		98
94)	Benzo(g,h,i)perylene	16.25	276	25791	205.0422948 ppb		98

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\111214\1112 05.D Vial: 3
Acq On : 12 Nov 2014 12:03 pm Operator: 280
Sample : STD SVMS 200 PPB 14K07412 Inst : BNAMS11
Misc : 8270 Primary Calibration Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Nov 12 19:25 2014 Quant Results File: S811K12N.RES

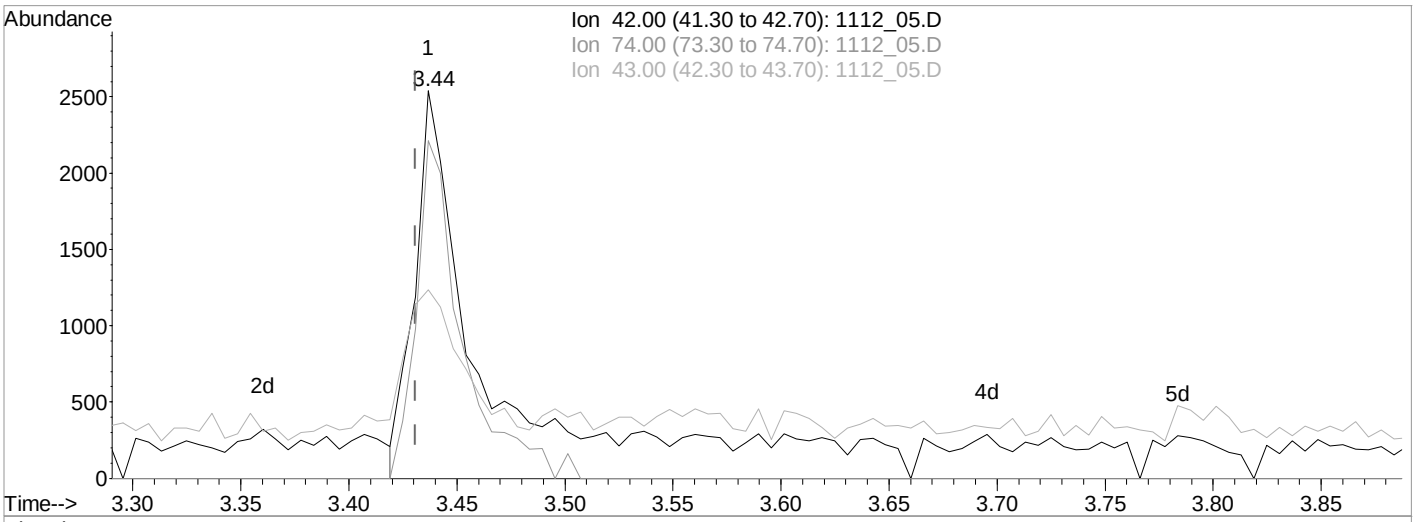
Method : C:\MSDCHEM\1\METHODS\S811K12N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Wed Nov 12 19:17:55 2014
Response via : Initial Calibration

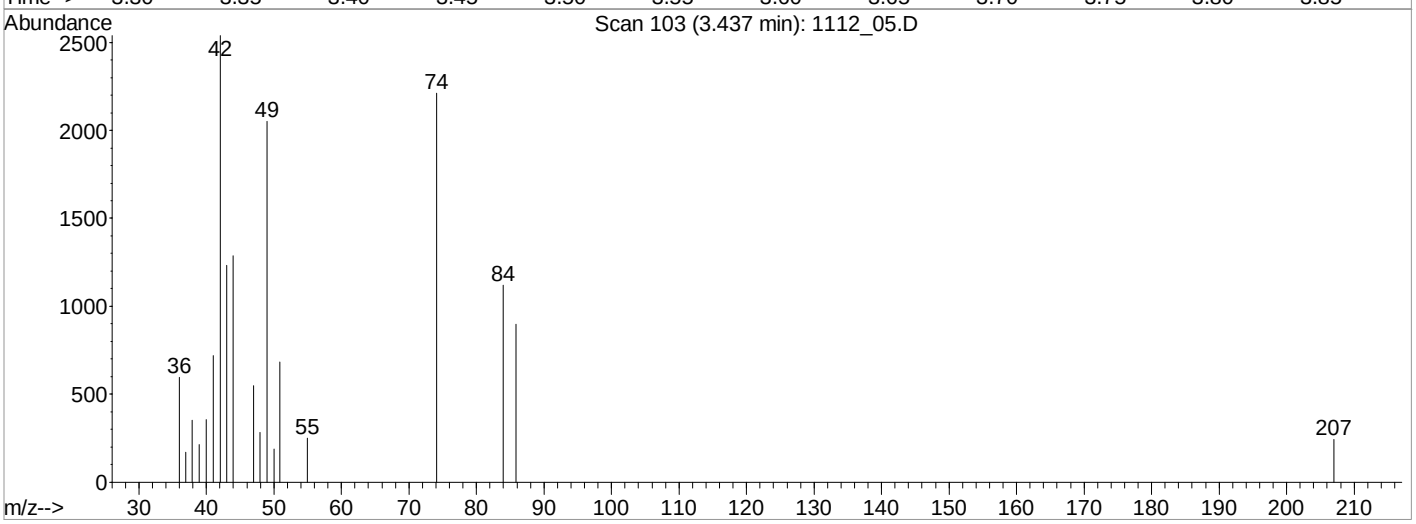


Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\111214\1112 05.D Vial: 3
Acq On : 12 Nov 2014 12:03 pm Operator: 280
Sample : STD SVMS 200 PPB 14K07412 Inst : BNAMS11
Misc : 8270 Primary Calibration Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Nov 12 19:23 2014 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\S811K12N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Wed Nov 12 19:17:55 2014
Response via : Multiple Level Calibration





TIC: 1112_05.D

(3) N-Nitrosodimethylamine (MT)

3.44min (+0.006) 397.3483682 ppb

Qvalue = 62

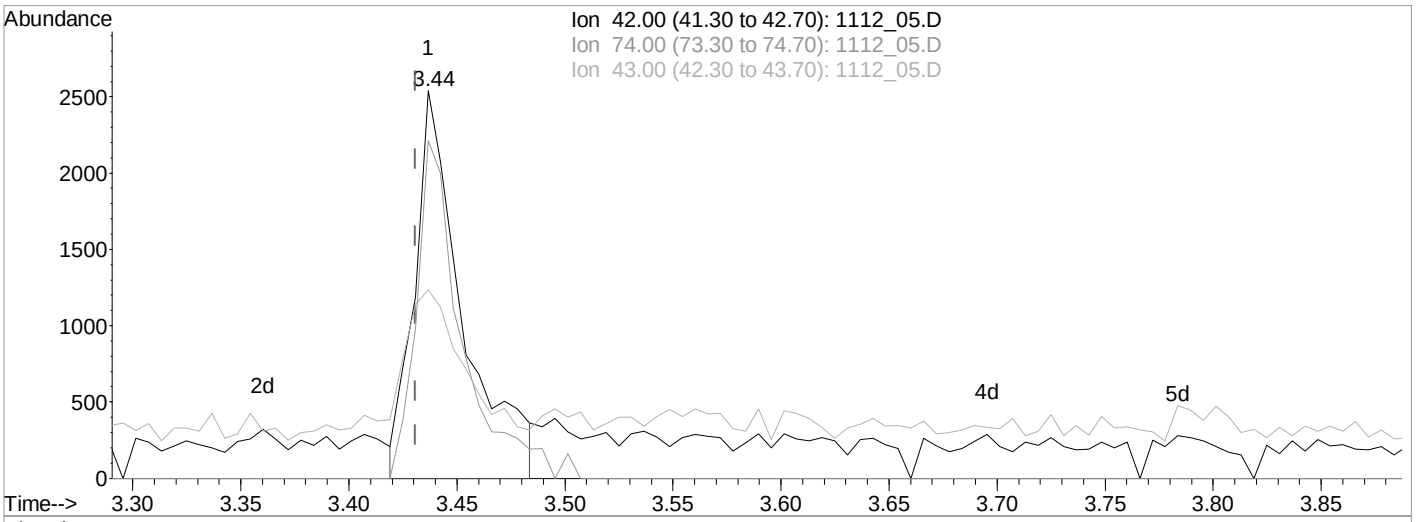
response 6629

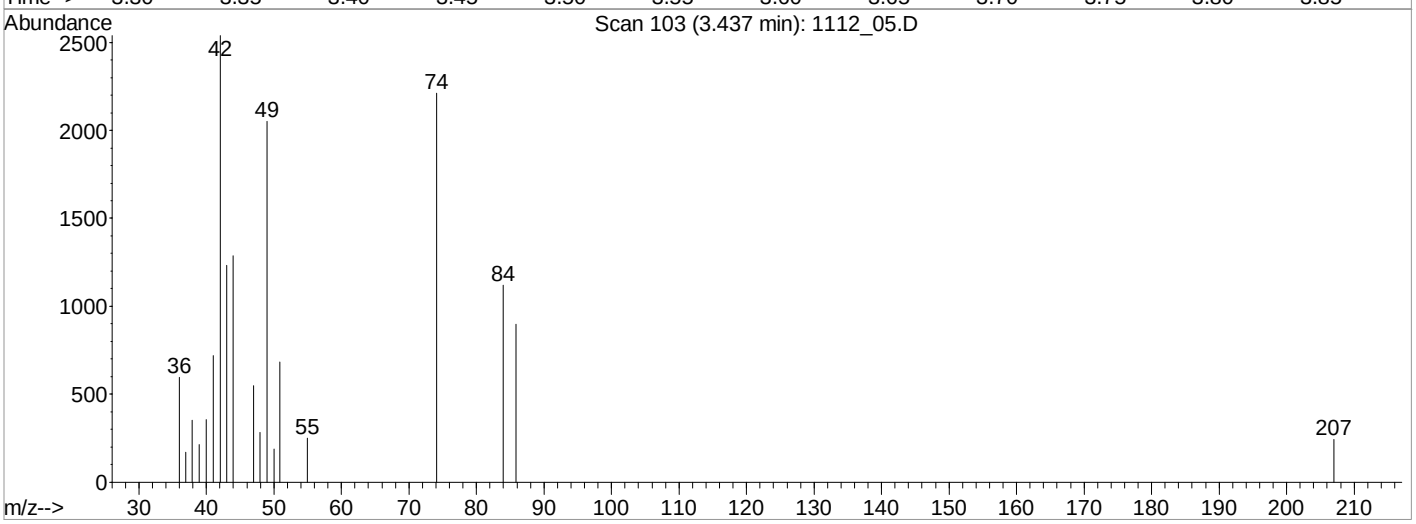
Ion	Exp%	Act%
42.00	100	100
74.00	103.40	49.81#
43.00	45.10	41.95
0.00	0.00	0.00

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\111214\1112 05.D Vial: 3
Acq On : 12 Nov 2014 12:03 pm Operator: 280
Sample : STD SVMS 200 PPB 14K07412 Inst : BNAMS11
Misc : 8270 Primary Calibration Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Nov 12 19:23 2014 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\S811K12N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Wed Nov 12 19:17:55 2014
Response via : Multiple Level Calibration





TIC: 1112_05.D

(3) N-Nitrosodimethylamine (MT)

3.44min (+0.006) 237.6657535 ppb m

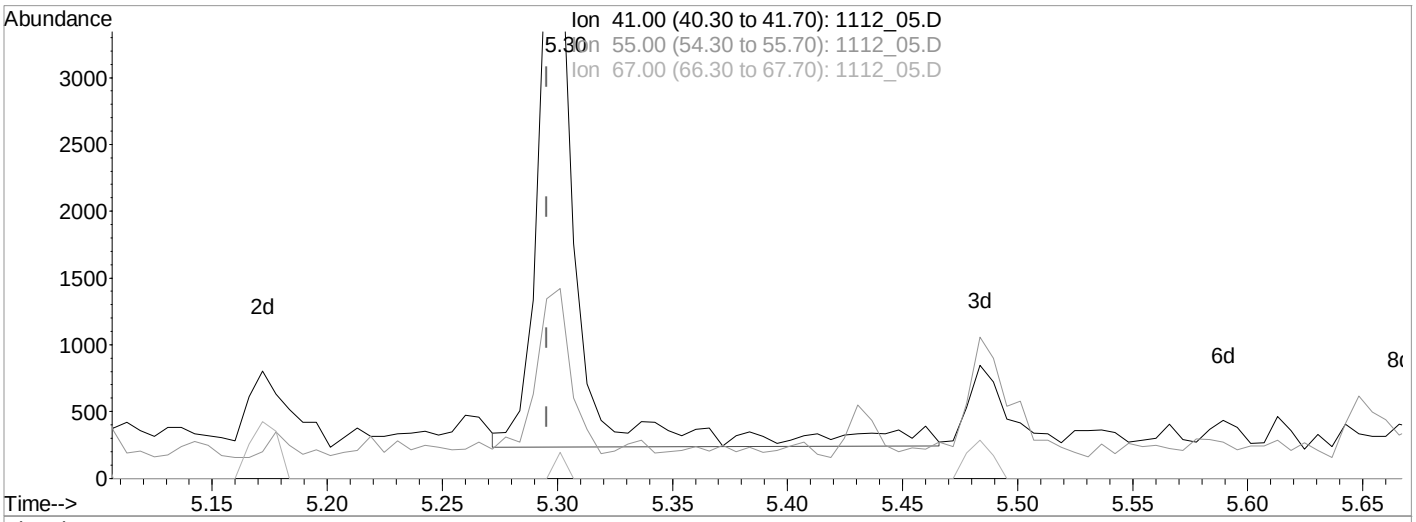
response 3965

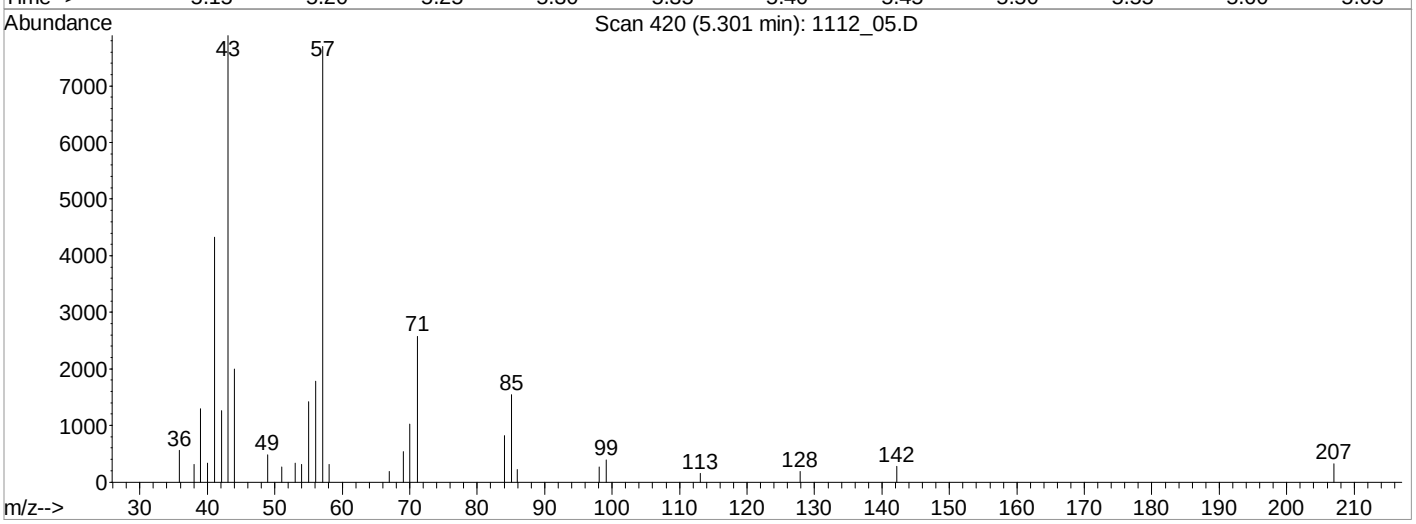
Ion	Exp%	Act%
42.00	100	100
74.00	103.40	83.28#
43.00	45.10	70.14#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\111214\1112 05.D Vial: 3
Acq On : 12 Nov 2014 12:03 pm Operator: 280
Sample : STD SVMS 200 PPB 14K07412 Inst : BNAMS11
Misc : 8270 Primary Calibration Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Nov 12 19:24 2014 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\S811K12N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Wed Nov 12 19:17:55 2014
Response via : Multiple Level Calibration





TIC: 1112_05.D

(11) n-Decane (T)

5.30min (+0.006) 310.5213201 ppb

Qvalue = 99

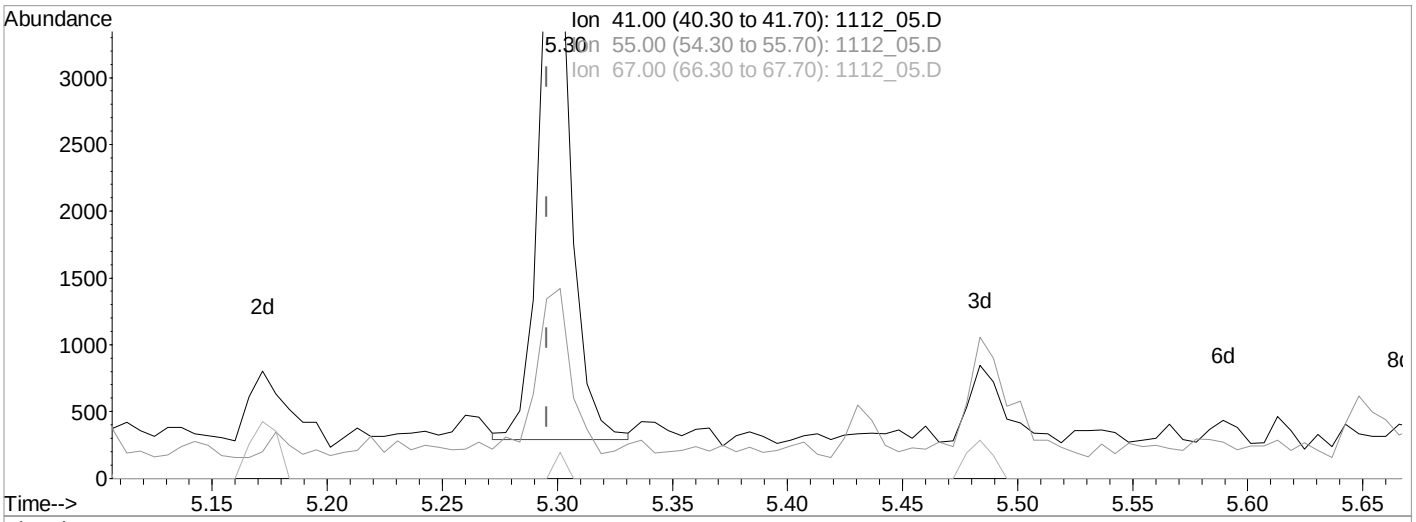
response 4944

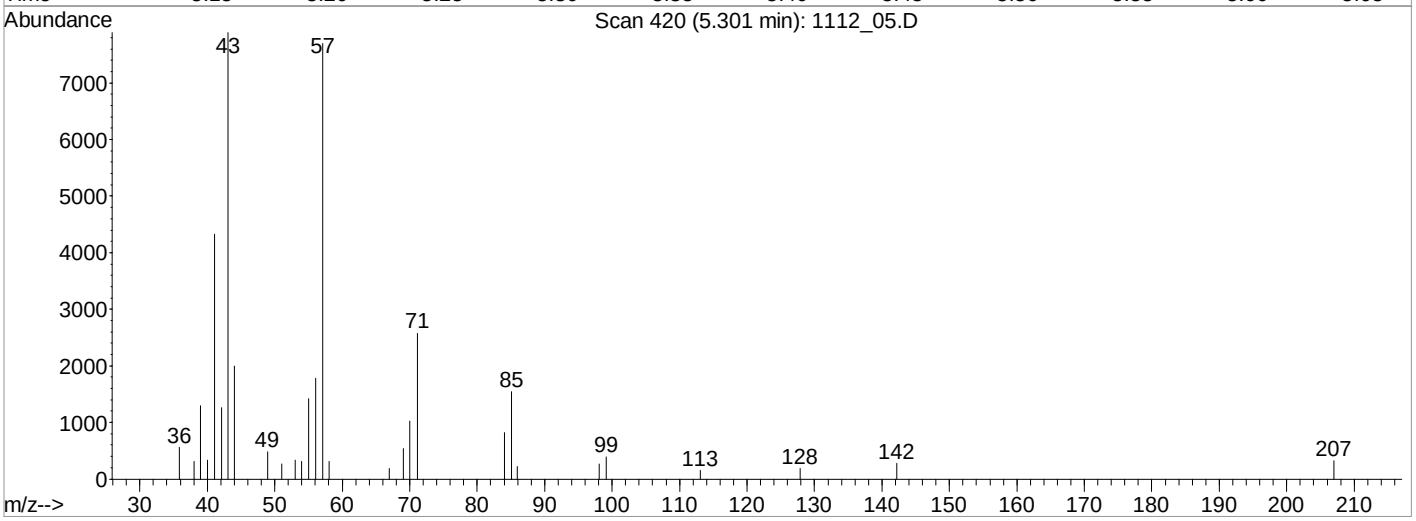
Ion	Exp%	Act%
41.00	100	100
55.00	33.10	33.78
67.00	2.50	1.38#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\111214\1112 05.D Vial: 3
Acq On : 12 Nov 2014 12:03 pm Operator: 280
Sample : STD SVMS 200 PPB 14K07412 Inst : BNAMS11
Misc : 8270 Primary Calibration Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Nov 12 19:24 2014 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\S811K12N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Wed Nov 12 19:17:55 2014
Response via : Multiple Level Calibration





TIC: 1112_05.D

(11) n-Decane (T)

5.30min (+0.006) 251.1052261 ppb m

response 3998

Ion	Exp%	Act%
41.00	100	100
55.00	33.10	41.77#
67.00	2.50	1.70#
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\111214\1112 06.D Vial: 4
Acq On : 12 Nov 2014 12:24 pm Operator: 280
Sample : STD SVMS 1K PPB 14K07412 Inst : BNAMS11
Misc : 8270 Primary Calibration Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Nov 12 19:27 2014 Quant Results File: S811K12N.RES

Quant Method : C:\MSDCHEM\1\METHODS\S811K12N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Wed Nov 12 19:26:25 2014
Response via : Initial Calibration
DataAcq Meth : BNA11A

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	5.48	152	104536	8000.00 ppb	0.00
22) Naphthalene-d8	6.76	136	455035	8000.00 ppb	0.00
40) Acenaphthene-d10	8.65	164	278211	8000.00 ppb	0.00
64) Phenanthrene-d10	10.28	188	505814	8000.00 ppb	0.00
78) Chrysene-d12	13.16	240	654561	8000.00 ppb	-0.02
88) Perylene-d12	14.67	264	783018	8000.00 ppb	-0.04

System Monitoring Compounds					
4) 2-Fluorophenol	4.36	112	19140	1005.6766523 ppb	0.01
Spiked Amount 20.000	Range 10 - 74		Recovery = 5028.38%#		
7) Phenol-d5	5.08	99	26237	1013.0339310 ppb	0.00
Spiked Amount 20.000	Range 10 - 63		Recovery = 5065.17%#		
23) Nitrobenzene-d5	6.01	82	24555	962.5366797 ppb	0.00
Spiked Amount 10.000	Range 28 - 123		Recovery = 9625.37%#		
44) 2-Fluorobiphenyl	7.90	172	50660	1050.5163325 ppb	0.00
Spiked Amount 10.000	Range 35 - 133		Recovery = 10505.16%#		
67) 2,4,6-Tribromophenol	9.51	330	7112	976.3819911 ppb	0.00
Spiked Amount 20.000	Range 22 - 154		Recovery = 4881.91%#		
81) p-Terphenyl-d14	11.98	244	81840	1027.2062315 ppb	-0.01
Spiked Amount 10.000	Range 30 - 148		Recovery = 10272.06%#		

Target Compounds					Qvalue
2) Pyridine	3.47	79	29789	1028.6910483 ppb	97
3) N-Nitrosodimethylamine	3.44	42	17275m	1025.6155472 ppb	
5) Aniline	5.17	66	14469	1061.4710754 ppb	96
6) bis(2-Chloroethyl)ether	5.21	63	19322	1043.4260066 ppb	95
8) Phenol	5.10	94	27227	1006.2572673 ppb	98
9) Benzaldehyde	0.00	105	0	N.D. d	
10) 2-Chlorophenol	5.28	128	21262	1020.4262891 ppb	97
11) n-Decane	5.30	41	17818m	1075.4240584 ppb	
12) 1,3-Dichlorobenzene	5.44	146	23944	1037.6051986 ppb	99
13) 1,4-Dichlorobenzene	5.50	146	24213	1022.6792393 ppb	96
14) Benzyl Alcohol	5.58	79	20349	1027.1573428 ppb	97
15) 1,2-Dichlorobenzene	5.65	146	23527	1070.1409849 ppb	97
16) bis(2-Chloroisopropyl)ethe	5.72	121	7116	1026.0801214 ppb	90
17) 2-Methylphenol	5.67	108	20582	1063.4286576 ppb	97
18) Hexachloroethane	5.98	117	9958	1011.1524068 ppb	96
19) N-Nitrosodi-n-propylamine	5.84	70	18959	1056.3033197 ppb	98
20) 3&4-Methyl phenol	5.81	107	22981	1058.7399128 ppb	94
21) Acetophenone	0.00	105	0	N.D. d	
24) Nitrobenzene	6.03	77	26264	994.0376904 ppb	99
25) Isophorone	6.27	82	44638	977.2916434 ppb	98
26) 2-Nitrophenol	6.35	139	9181	924.1918308 ppb	90
27) 2,4-Dimethylphenol	6.36	107	23408	1033.5838615 ppb	100
28) bis(2-Chlorethoxy)methane	6.47	93	29366	1022.1862431 ppb	97
29) 2,4-Dichlorophenol	6.59	162	17012	985.0822073 ppb	95
30) Benzoic Acid	0.00	105	0	N.D. d	
31) 1,2,4-Trichlorobenzene	6.70	180	19758	986.9188891 ppb	94
32) Naphthalene	6.78	128	72598	943.5182019 ppb	99
33) 4-Chloroaniline	6.82	65	10222	1018.5277990 ppb	96
34) Hexachloro-1,3-butadiene	6.90	225	11878	1064.8887834 ppb	97
35) Caprolactam	0.00	113	0	N.D. d	
36) 4-Chloro-3-methylphenol	7.30	107	19906	983.4346963 ppb	97
37) 2-Methylnaphthalene	7.52	142	47683	997.7888392 ppb	99
38) 1-Methylnaphthalene	7.62	142	44783	1020.2020726 ppb	99

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\111214\1112 06.D Vial: 4
Acq On : 12 Nov 2014 12:24 pm Operator: 280
Sample : STD SVMS 1K PPB 14K07412 Inst : BNAMS11
Misc : 8270 Primary Calibration Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Nov 12 19:27 2014 Quant Results File: S811K12N.RES

Quant Method : C:\MSDCHEM\1\METHODS\S811K12N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Wed Nov 12 19:26:25 2014
Response via : Initial Calibration
DataAcq Meth : BNA11A

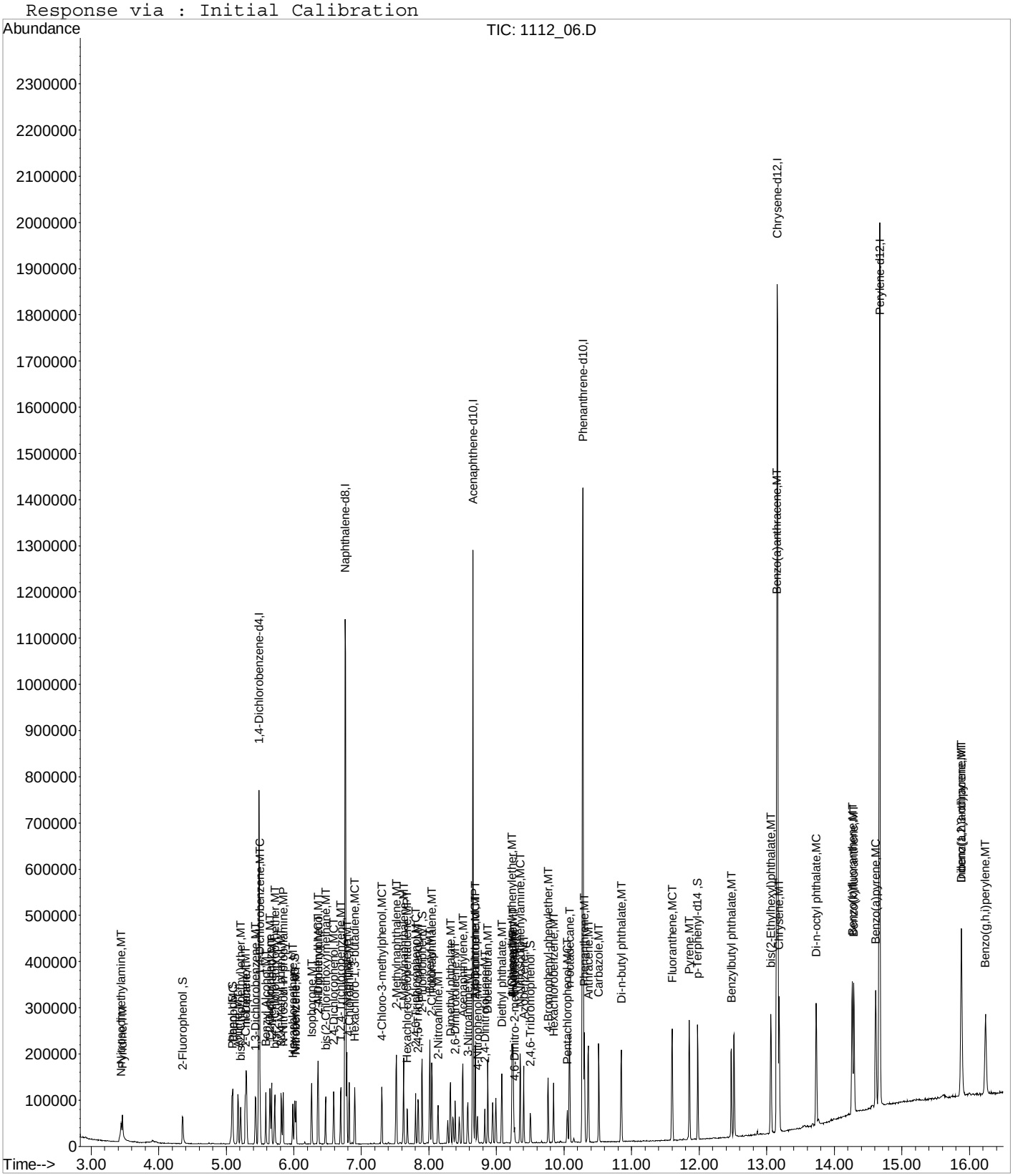
	Compound	R.T.	QIon	Response	Conc Unit		Qvalue
39)	1,2,4,5-Tetrachlorobenzene	0.00	216	0	N.D.		
41)	Hexachlorocyclopentadiene	7.68	237	11244	983.3429177 ppb		96
42)	2,4,6-Trichlorophenol	7.80	196	11171	981.2583129 ppb		95
43)	2,4,5-Trichlorophenol	7.84	196	12820	1001.8403854 ppb		93
45)	Biphenyl	8.01	154	57776	1053.8042158 ppb		99
46)	2-Chloronaphthalene	8.04	162	44765	1030.8285426 ppb		99
47)	2-Nitroaniline	8.14	138	11518	935.6727151 ppb		98
48)	Acenaphthylene	8.50	152	69065	1050.7817293 ppb		99
49)	Dimethyl phthalate	8.32	163	46899	1028.3517377 ppb		98
50)	2,6-Dinitrotoluene	8.39	165	9093	967.5140999 ppb		96
51)	3-Nitroaniline	8.58	138	11430	1011.3930858 ppb		91
52)	Acenaphthene	8.68	153	46979	1052.8701278 ppb		99
53)	2,4-Dinitrophenol	8.68	184	2252	694.4669213 ppb	#	1
54)	Dibenzofuran	8.87	168	63613	1058.6938814 ppb		99
55)	2,4-Dinitrotoluene	8.82	165	11213	963.2525896 ppb		87
56)	2,3,4,6-Tetrachlorophenol	0.00	232	0	N.D. d		
57)	4-Nitrophenol	8.72	139	7585	941.2325199 ppb		97
58)	Fluorene	9.25	166	53149	1077.3126484 ppb		99
59)	4-Chlorophenyl-phenylether	9.23	204	24165	1083.3137115 ppb		98
60)	Diethyl phthalate	9.08	149	49423	997.9641522 ppb		100
61)	4-Nitroaniline	9.24	138	11361	1098.9421000 ppb		98
62)	Azobenzene	9.40	77	60466	1049.6735955 ppb		99
63)	Atrazine	0.00	200	0	N.D. d		
65)	4,6-Dinitro-2-methylphenol	9.27	198	3923	774.0897476 ppb		95
66)	N-Nitrosodiphenylamine	9.35	169	43358	1019.8740914 ppb		98
68)	4-Bromophenyl-phenylether	9.77	248	14843	998.8492064 ppb		96
69)	Hexachlorobenzene	9.85	284	17853	1010.9131834 ppb		98
70)	n-octadecane	10.08	55	9943m	921.1213984 ppb		
71)	Pentachlorophenol	10.05	266	7802	892.0795049 ppb		95
72)	Phenanthrene	10.30	178	80862	1013.7943289 ppb		99
73)	Anthracene	10.36	178	82256	1046.0002279 ppb		99
74)	Carbazole	10.51	167	79240	1028.1911447 ppb		99
75)	Di-n-butyl phthalate	10.85	149	102219	1021.1416175 ppb		100
76)	2-nitrodiphenylamine	0.00	167	0	N.D.		
77)	Fluoranthene	11.60	202	98508	1035.3135144 ppb		98
79)	Benzidine	0.00	184	0	N.D.		
80)	Pyrene	11.85	202	105370	1036.0591938 ppb		98
82)	Benzylbutyl phthalate	12.48	149	47490	943.9217400 ppb		91
83)	3,3-Dichlorobenzidine	0.00	252	0	N.D.		
84)	Benzo(a)anthracene	13.14	228	112581	999.8046485 ppb		98
85)	Chrysene	13.18	228	104718	1032.4831011 ppb		98
86)	bis(2-Ethylhexyl)phthalate	13.06	149	73302	894.1403053 ppb		98
87)	Di-n-octyl phthalate	13.73	149	127453	954.5458353 ppb		99
89)	Benzo(b)fluoranthene	14.27	252	121611	1021.9273553 ppb		98
90)	Benzo(k)fluoranthene	14.29	252	115946	1012.6714327 ppb		98
91)	Benzo(a)pyrene	14.61	252	113509	1003.1183843 ppb		96
92)	Indeno(1,2,3-cd)pyrene	15.88	276	142938	1030.9411288 ppb		96
93)	Dibenz(a,h)anthracene	15.88	278	117355	1018.4380278 ppb		97
94)	Benzo(g,h,i)perylene	16.24	276	116803	1003.1041542 ppb		99

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\111214\1112 06.D Vial: 4
Acq On : 12 Nov 2014 12:24 pm Operator: 280
Sample : STD SVMS 1K PPB 14K07412 Inst : BNAMS11
Misc : 8270 Primary Calibration Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Nov 12 19:27 2014 Quant Results File: S811K12N.RES

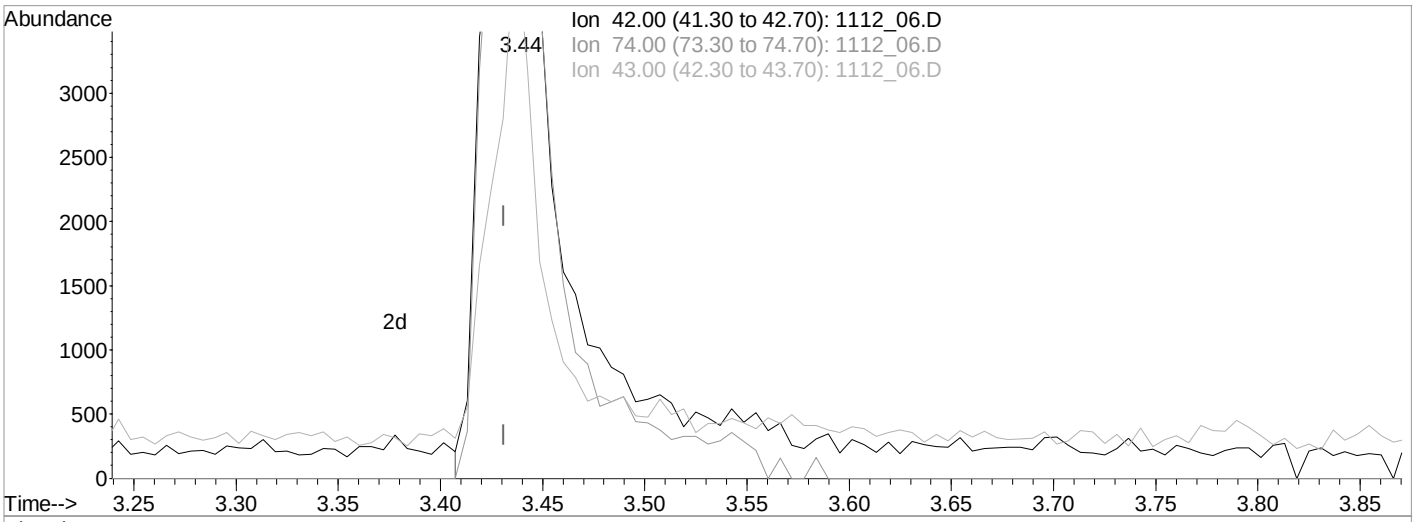
Method : C:\MSDCHEM\1\METHODS\S811K12N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Wed Nov 12 19:26:25 2014
Response via : Initial Calibration

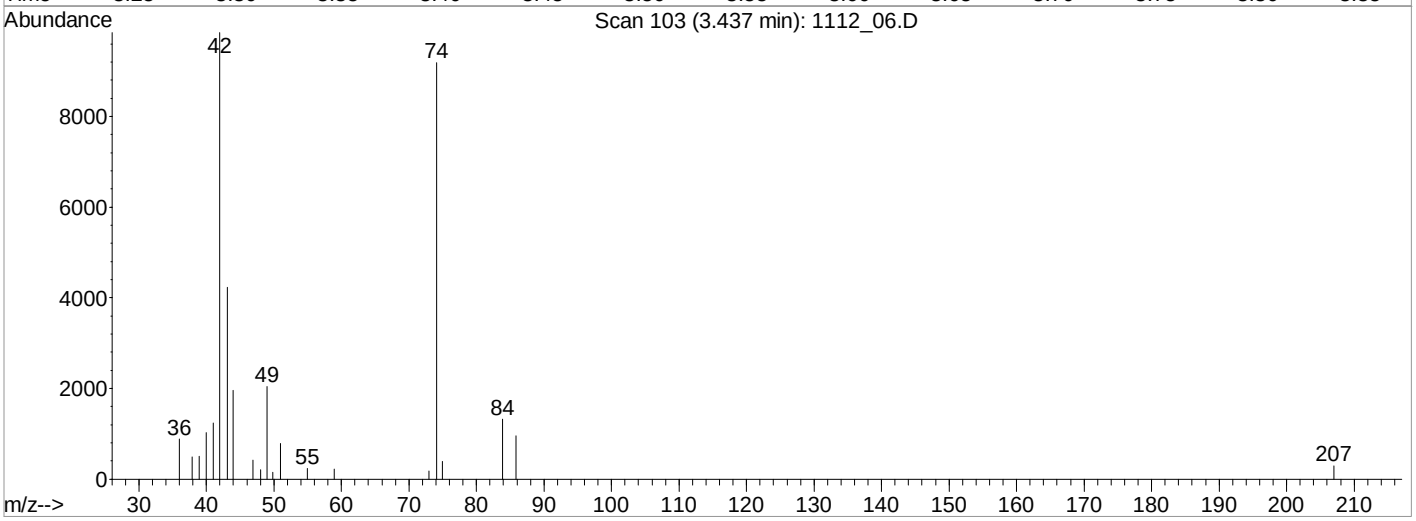


Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\111214\1112 06.D Vial: 4
Acq On : 12 Nov 2014 12:24 pm Operator: 280
Sample : STD SVMS 1K PPB 14K07412 Inst : BNAMS11
Misc : 8270 Primary Calibration Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Nov 12 19:26 2014 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\S811K12N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Wed Nov 12 19:26:25 2014
Response via : Multiple Level Calibration





TIC: 1112_06.D

(3) N-Nitrosodimethylamine (MT)

3.44min (+0.006) 1276.2160234 ppb

Qvalue = 78

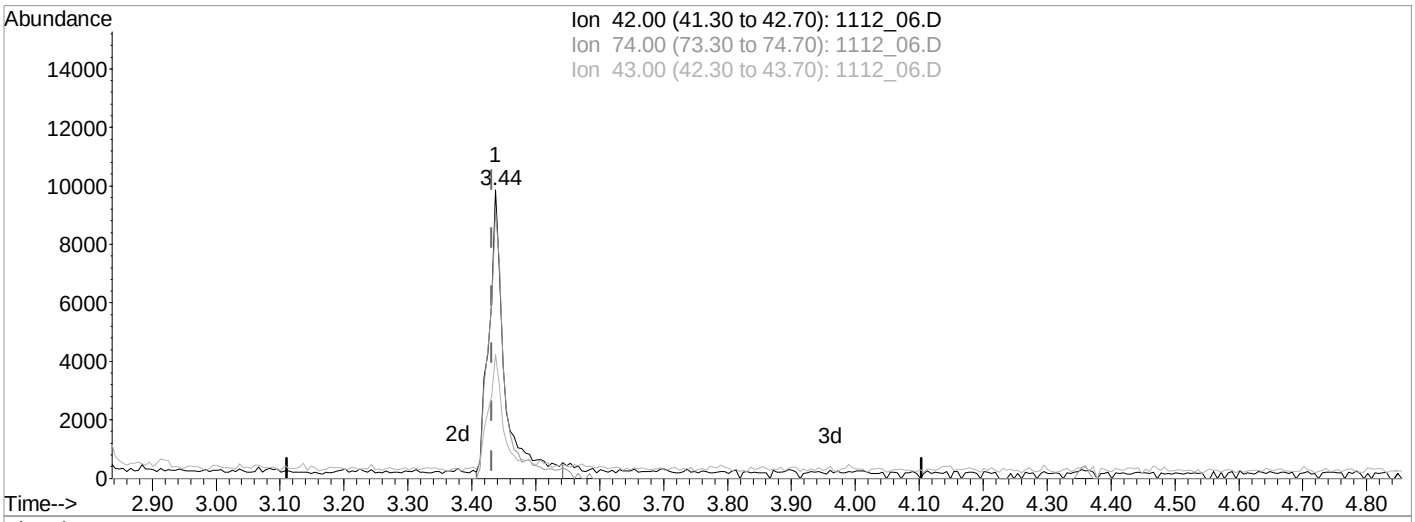
response 21496

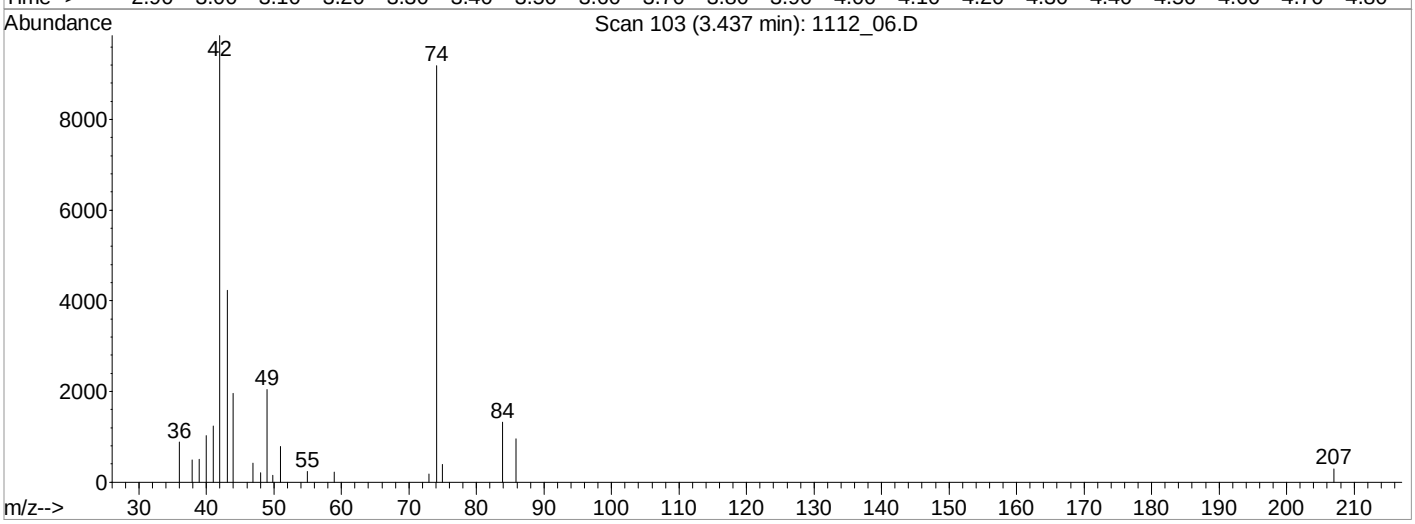
Ion	Exp%	Act%
42.00	100	100
74.00	103.40	74.87#
43.00	45.10	39.82
0.00	0.00	0.00

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\111214\1112 06.D Vial: 4
Acq On : 12 Nov 2014 12:24 pm Operator: 280
Sample : STD SVMS 1K PPB 14K07412 Inst : BNAMS11
Misc : 8270 Primary Calibration Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Nov 12 19:26 2014 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\S811K12N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Wed Nov 12 19:26:25 2014
Response via : Multiple Level Calibration





TIC: 1112_06.D

(3) N-Nitrosodimethylamine (MT)

3.44min (+0.006) 1025.6155472 ppb m

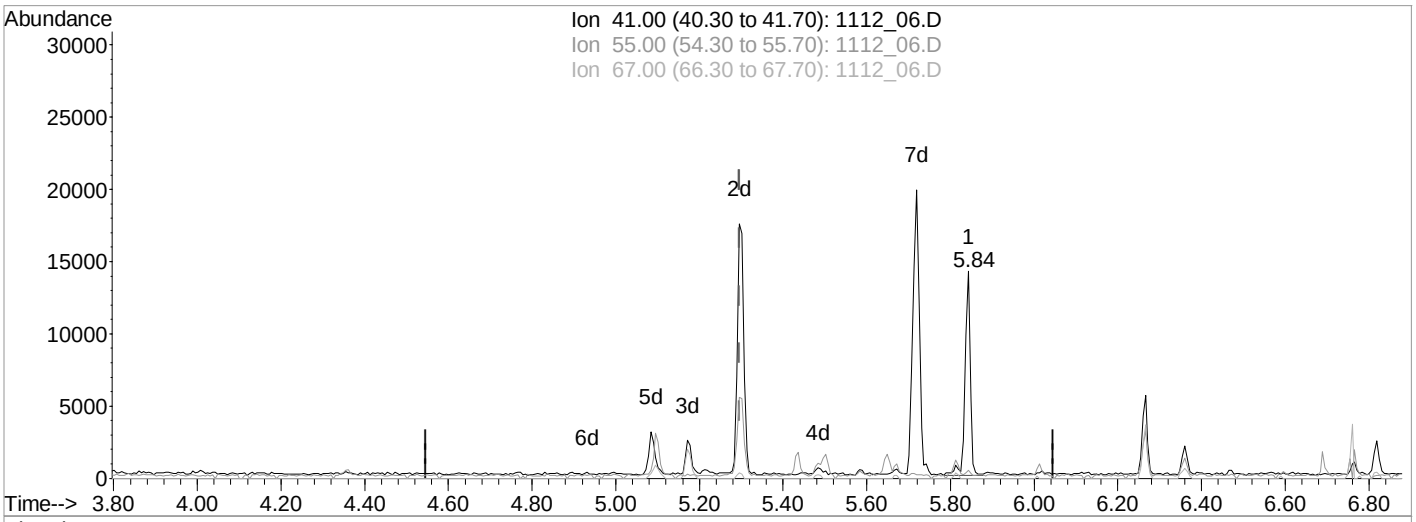
response 17275

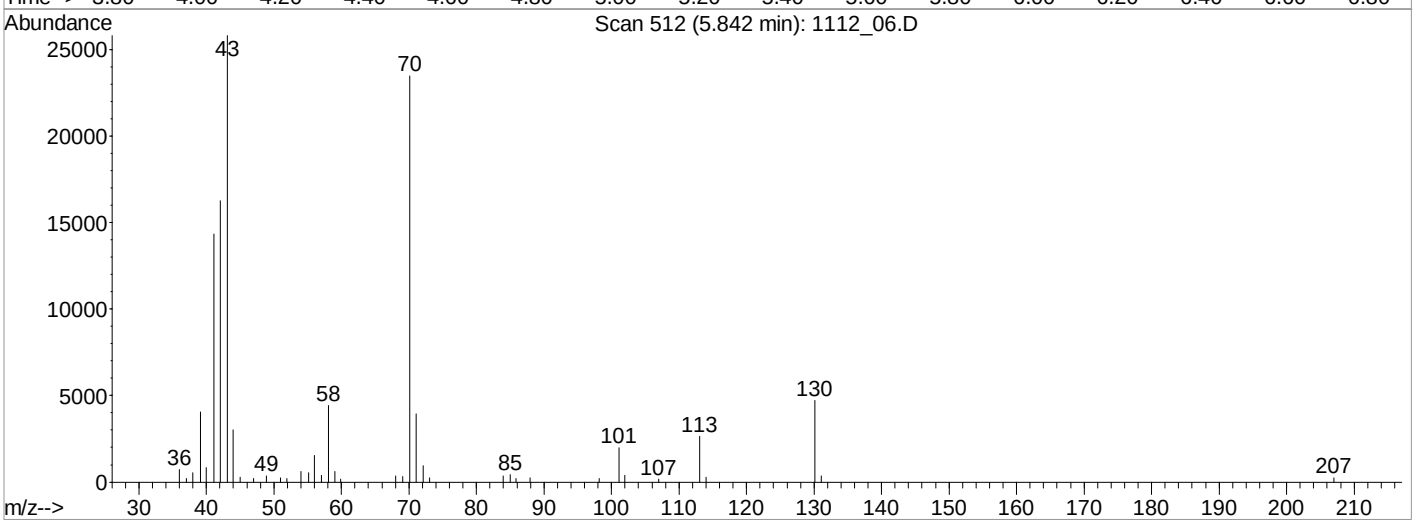
Ion	Exp%	Act%
42.00	100	100
74.00	103.40	93.17
43.00	45.10	49.55
0.00	0.00	0.00

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\111214\1112 06.D Vial: 4
Acq On : 12 Nov 2014 12:24 pm Operator: 280
Sample : STD SVMS 1K PPB 14K07412 Inst : BNAMS11
Misc : 8270 Primary Calibration Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Nov 12 19:26 2014 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\S811K12N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Wed Nov 12 19:26:25 2014
Response via : Multiple Level Calibration





TIC: 1112_06.D

(11) n-Decane (T)

5.84min (+0.547) 742.4397431 ppb

Qvalue = 97

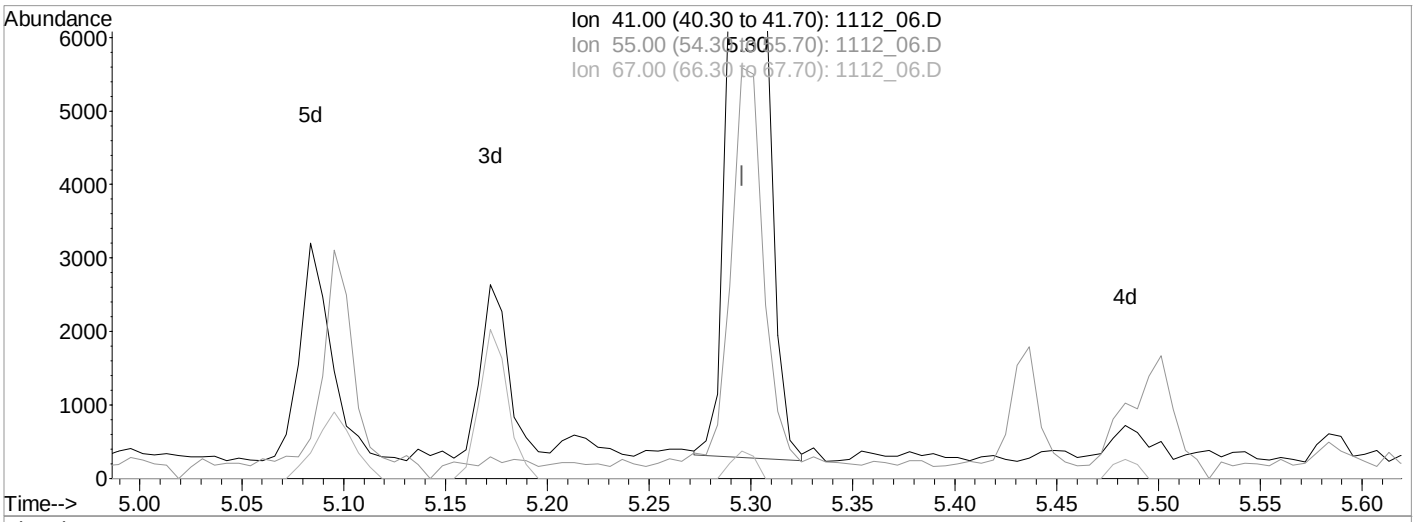
response 12301

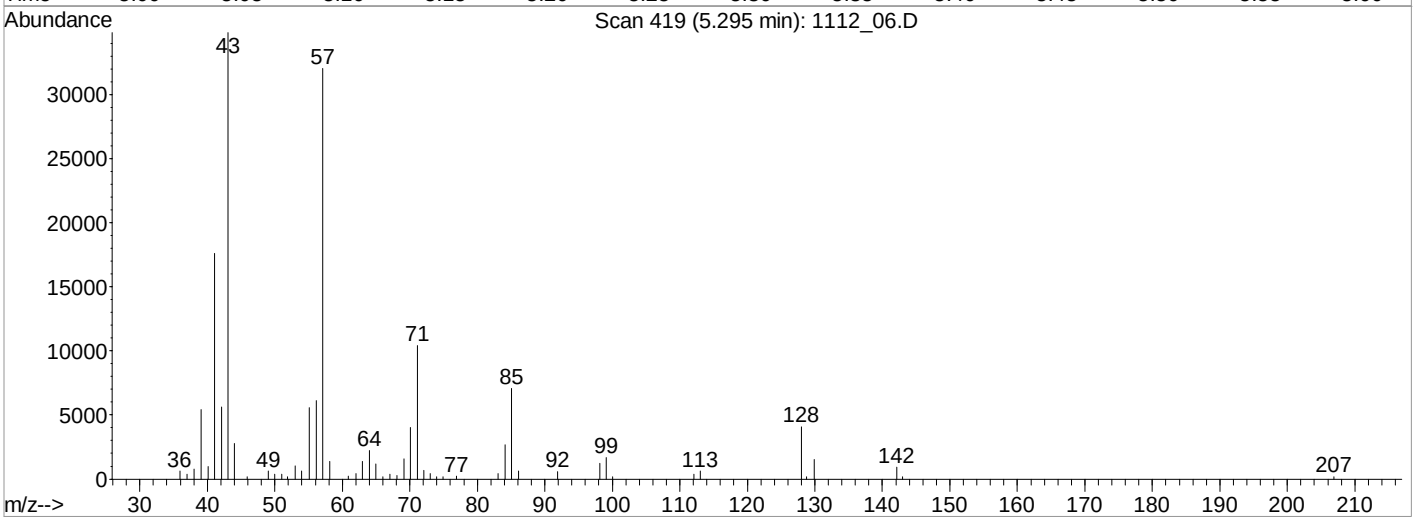
Ion	Exp%	Act%
41.00	100	100
55.00	33.10	31.40
67.00	2.50	2.24
0.00	0.00	0.00

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\111214\1112 06.D Vial: 4
Acq On : 12 Nov 2014 12:24 pm Operator: 280
Sample : STD SVMS 1K PPB 14K07412 Inst : BNAMS11
Misc : 8270 Primary Calibration Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Nov 12 19:27 2014 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\S811K12N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Wed Nov 12 19:26:25 2014
Response via : Multiple Level Calibration





TIC: 1112_06.D

(11) n-Decane (T)

5.30min (-0.000) 1075.4240584 ppb m

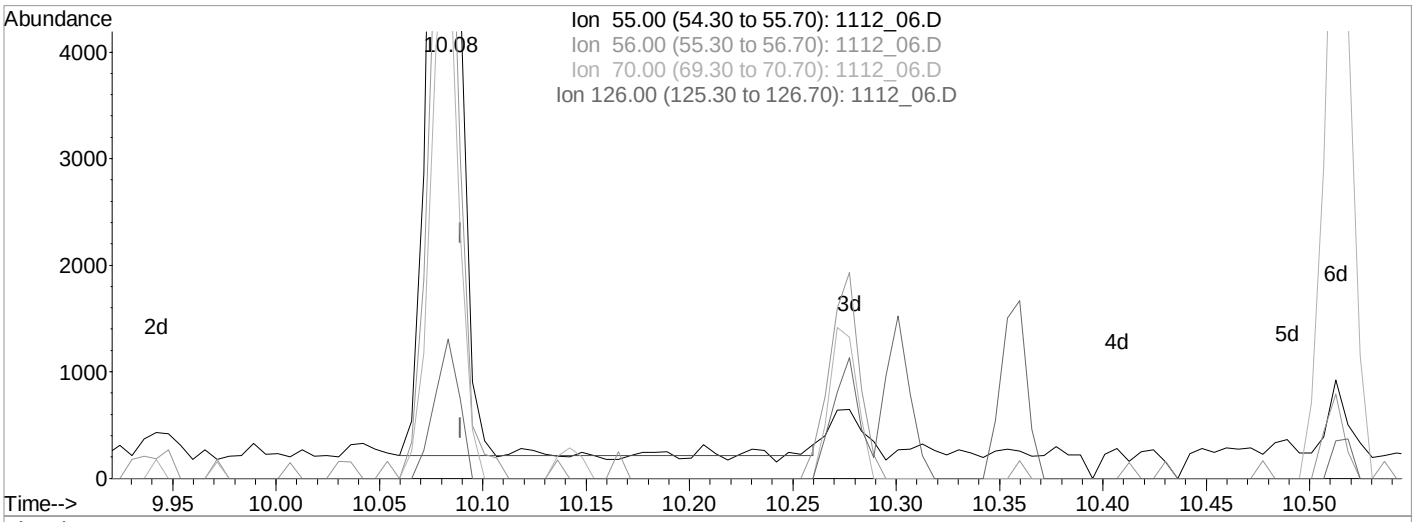
response 17818

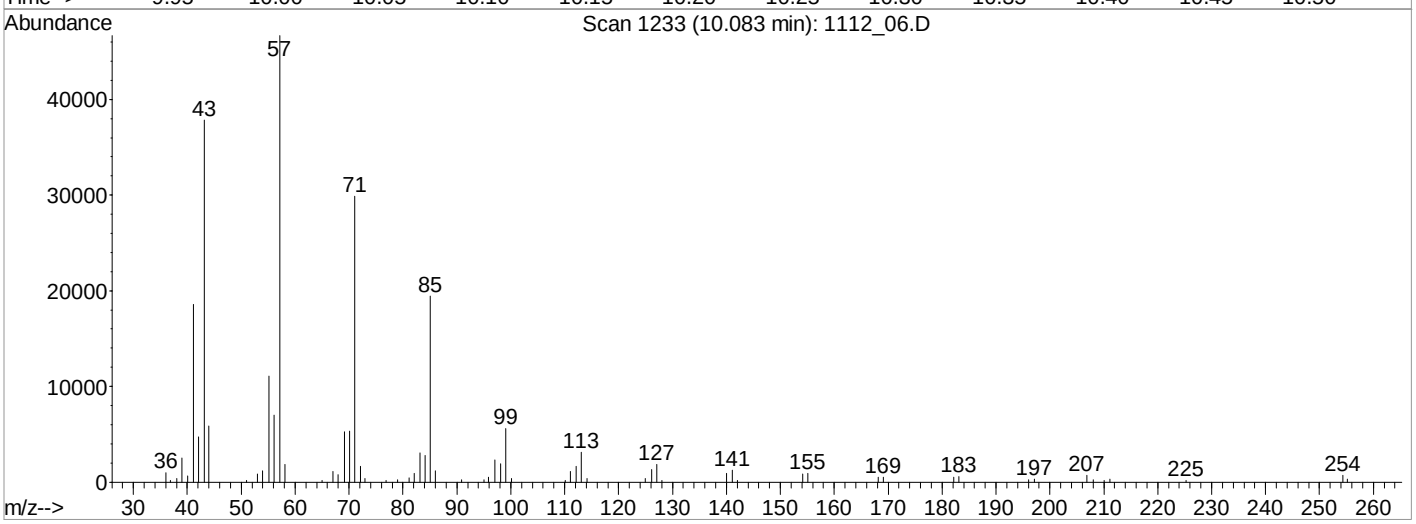
Ion	Exp%	Act%
41.00	100	100
55.00	33.10	21.67#
67.00	2.50	1.55#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\111214\1112 06.D Vial: 4
Acq On : 12 Nov 2014 12:24 pm Operator: 280
Sample : STD SVMS 1K PPB 14K07412 Inst : BNAMS11
Misc : 8270 Primary Calibration Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Nov 12 19:27 2014 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\S811K12N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Wed Nov 12 19:26:25 2014
Response via : Multiple Level Calibration





TIC: 1112_06.D

(70) n-octadecane (T)

10.08min (-0.006) 918.6201133 ppb

Qvalue = 96

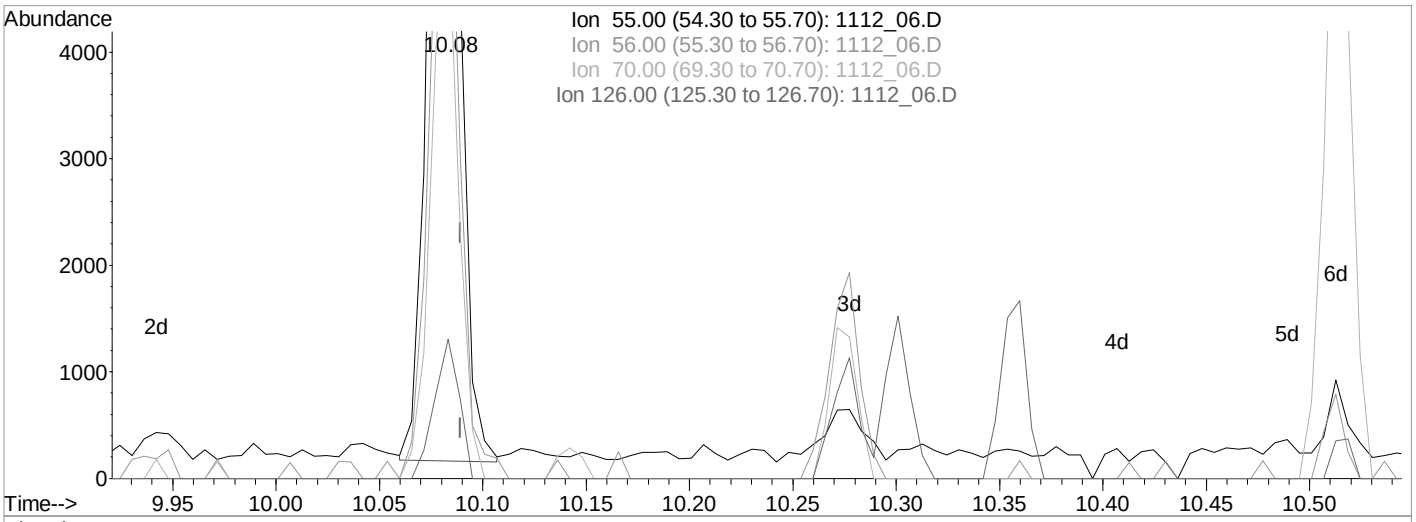
response 9916

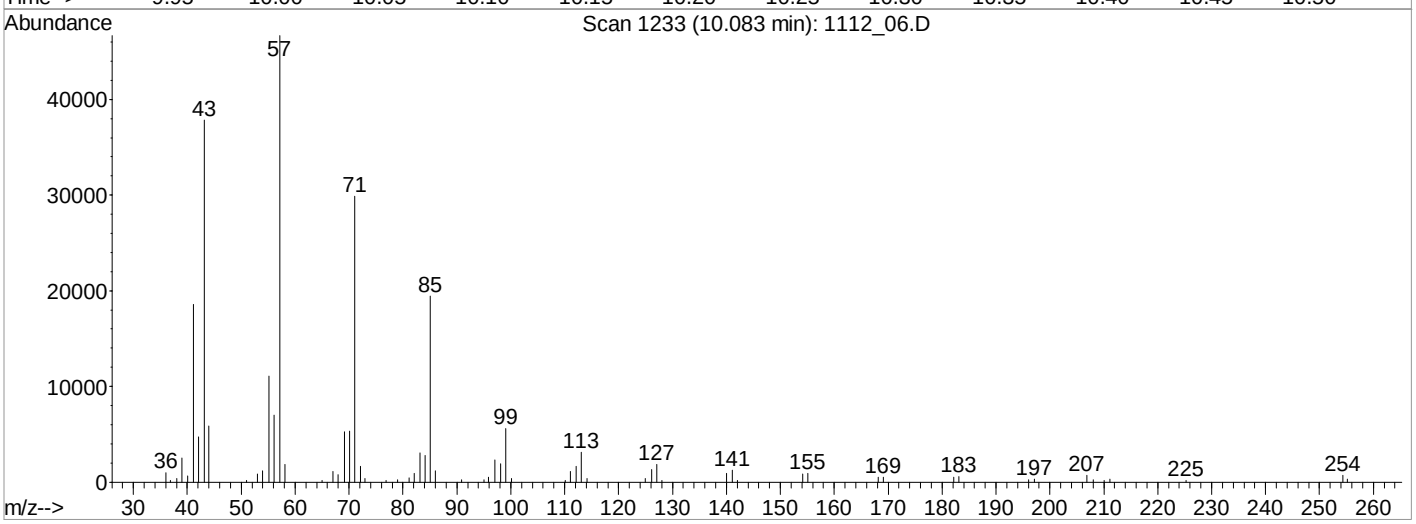
Ion	Exp%	Act%
55.00	100	100
56.00	63.50	66.26
70.00	45.70	48.20
126.00	9.80	11.03

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\111214\1112 06.D Vial: 4
Acq On : 12 Nov 2014 12:24 pm Operator: 280
Sample : STD SVMS 1K PPB 14K07412 Inst : BNAMS11
Misc : 8270 Primary Calibration Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Nov 12 19:27 2014 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\S811K12N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Wed Nov 12 19:26:25 2014
Response via : Multiple Level Calibration





TIC: 1112_06.D

(70) n-octadecane (T)

10.08min (-0.006) 921.1213984 ppb m

response 9943

Ion	Exp%	Act%
55.00	100	100
56.00	63.50	66.08
70.00	45.70	48.07
126.00	9.80	11.00

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\111214\1112 07.D Vial: 5
Acq On : 12 Nov 2014 12:45 pm Operator: 280
Sample : STD SVMS 2K PPB 14K07412 Inst : BNAMS11
Misc : 8270 Primary Calibration Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Nov 12 19:30 2014 Quant Results File: S811K12N.RES

Quant Method : C:\MSDCHEM\1\METHODS\S811K12N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Wed Nov 12 19:28:53 2014
Response via : Initial Calibration
DataAcq Meth : BNA11A

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	5.48	152	103036	8000.00 ppb	0.00
22) Naphthalene-d8	6.76	136	452658	8000.00 ppb	0.00
40) Acenaphthene-d10	8.65	164	280434	8000.00 ppb	0.00
64) Phenanthrene-d10	10.28	188	510361	8000.00 ppb	0.00
78) Chrysene-d12	13.15	240	649937	8000.00 ppb	-0.02
88) Perylene-d12	14.66	264	774307	8000.00 ppb	-0.05

System Monitoring Compounds					
4) 2-Fluorophenol	4.36	112	36867	1961.5984866 ppb	0.01
Spiked Amount 20.000	Range 10 - 74		Recovery = 9807.99%#		
7) Phenol-d5	5.08	99	51782	2019.6808938 ppb	0.00
Spiked Amount 20.000	Range 10 - 63		Recovery = 10098.40%#		
23) Nitrobenzene-d5	6.01	82	48733	1944.6104632 ppb	0.00
Spiked Amount 10.000	Range 28 - 123		Recovery = 19446.10%#		
44) 2-Fluorobiphenyl	7.90	172	95350	1929.0782815 ppb	0.00
Spiked Amount 10.000	Range 35 - 133		Recovery = 19290.78%#		
67) 2,4,6-Tribromophenol	9.51	330	14066	1929.0548576 ppb	0.00
Spiked Amount 20.000	Range 22 - 154		Recovery = 9645.27%#		
81) p-Terphenyl-d14	11.98	244	158998	1991.7819681 ppb	-0.01
Spiked Amount 10.000	Range 30 - 148		Recovery = 19917.82%#		

Target Compounds					Qvalue
2) Pyridine	3.47	79	57929	2010.3340851 ppb	99
3) N-Nitrosodimethylamine	3.44	42	32385m	1934.1708790 ppb	
5) Aniline	5.17	66	27267	1988.7261649 ppb	99
6) bis(2-Chloroethyl)ether	5.21	63	36602	1976.7410942 ppb	98
8) Phenol	5.10	94	53438	1999.5461536 ppb	97
9) Benzaldehyde	0.00	105	0	N.D. d	
10) 2-Chlorophenol	5.28	128	40644	1965.6394891 ppb	98
11) n-Decane	5.30	41	34342m	2051.3488021 ppb	
12) 1,3-Dichlorobenzene	5.44	146	44441	1929.6834535 ppb	98
13) 1,4-Dichlorobenzene	5.50	146	45645	1941.2887079 ppb	96
14) Benzyl Alcohol	5.59	79	39505	2004.9757164 ppb	99
15) 1,2-Dichlorobenzene	5.65	146	43253	1950.4306053 ppb	95
16) bis(2-Chloroisopropyl)ethe	5.72	121	13587	1970.5462373 ppb	99
17) 2-Methylphenol	5.67	108	38934	1998.6658037 ppb	98
18) Hexachloroethane	5.98	117	19344	1985.4373447 ppb	95
19) N-Nitrosodi-n-propylamine	5.84	70	36139	2005.1692613 ppb	99
20) 3&4-Methyl phenol	5.81	107	44257	2028.8873140 ppb	93
21) Acetophenone	0.00	105	0	N.D. d	
24) Nitrobenzene	6.03	77	51266	1954.3844974 ppb	98
25) Isophorone	6.27	82	88330	1958.8544452 ppb	100
26) 2-Nitrophenol	6.35	139	18774	1949.0319080 ppb	89
27) 2,4-Dimethylphenol	6.36	107	45397	1992.7298059 ppb	99
28) bis(2-Chlorethoxy)methane	6.47	93	55177	1916.5402925 ppb	98
29) 2,4-Dichlorophenol	6.59	162	33191	1941.6770589 ppb	97
30) Benzoic Acid	0.00	105	0	N.D. d	
31) 1,2,4-Trichlorobenzene	6.70	180	37860	1909.3762557 ppb	98
32) Naphthalene	6.78	128	135779	1807.9539461 ppb	99
33) 4-Chloroaniline	6.82	65	19999	1990.8840531 ppb	94
34) Hexachloro-1,3-butadiene	6.90	225	20872	1841.2219137 ppb	96
35) Caprolactam	0.00	113	0	N.D. d	
36) 4-Chloro-3-methylphenol	7.30	107	39090	1952.1200324 ppb	96
37) 2-Methylnaphthalene	7.51	142	92656	1950.4886915 ppb	99
38) 1-Methylnaphthalene	7.62	142	86442	1966.3357737 ppb	99

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\111214\1112 07.D Vial: 5
Acq On : 12 Nov 2014 12:45 pm Operator: 280
Sample : STD SVMS 2K PPB 14K07412 Inst : BNAMS11
Misc : 8270 Primary Calibration Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Nov 12 19:30 2014 Quant Results File: S811K12N.RES

Quant Method : C:\MSDCHEM\1\METHODS\S811K12N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Wed Nov 12 19:28:53 2014
Response via : Initial Calibration
DataAcq Meth : BNA11A

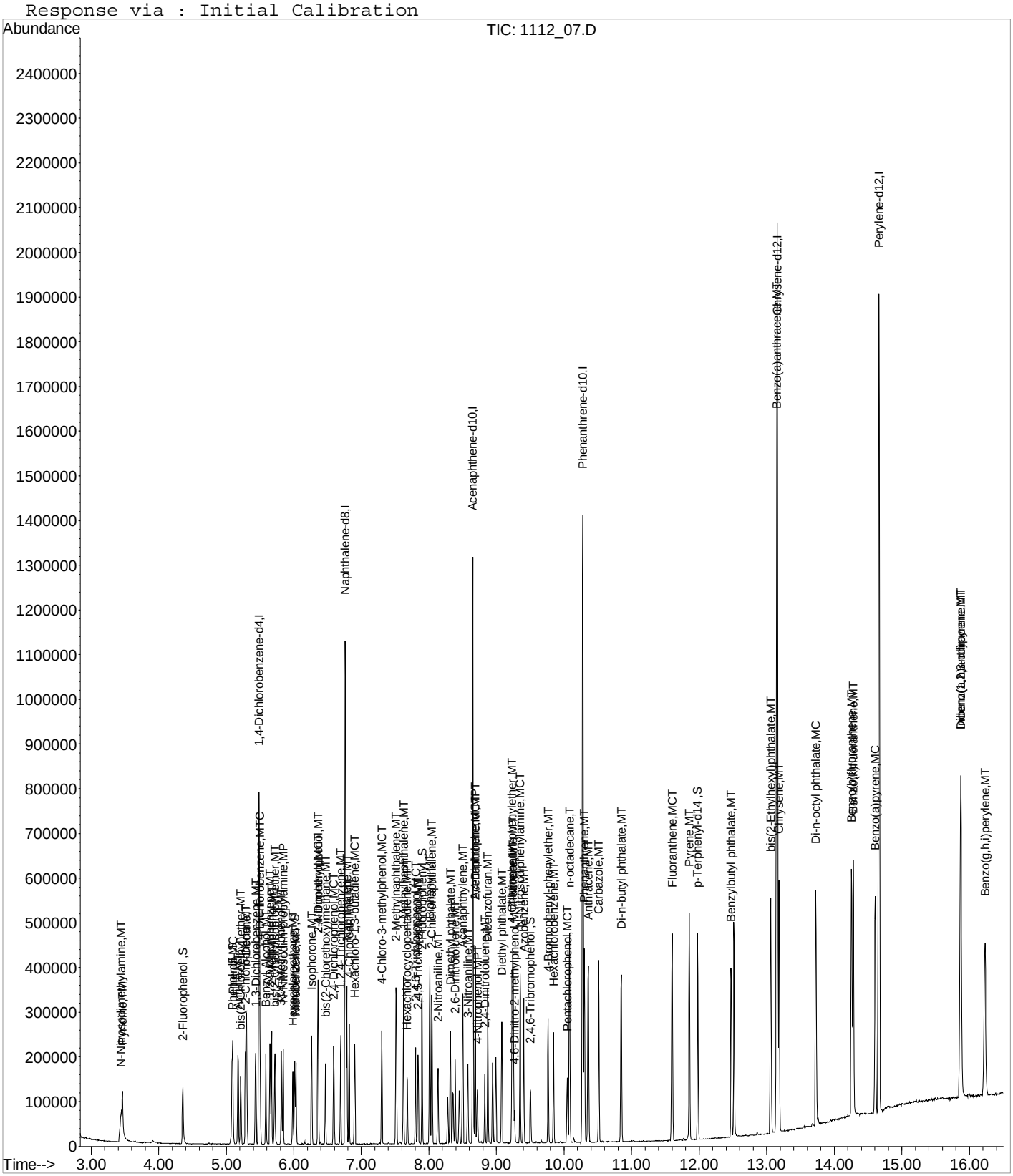
	Compound	R.T.	QIon	Response	Conc Unit		Qvalue
39)	1,2,4,5-Tetrachlorobenzene	0.00	216	0	N.D.		
41)	Hexachlorocyclopentadiene	7.68	237	21803	1902.2260360 ppb		96
42)	2,4,6-Trichlorophenol	7.80	196	22957	2013.1294835 ppb		96
43)	2,4,5-Trichlorophenol	7.84	196	25538	1978.6759783 ppb		97
45)	Biphenyl	8.01	154	110444	1963.2621007 ppb		99
46)	2-Chloronaphthalene	8.04	162	84504	1910.8589465 ppb		99
47)	2-Nitroaniline	8.14	138	24329	2003.6801626 ppb		97
48)	Acenaphthylene	8.50	152	131534	1952.2987337 ppb		100
49)	Dimethyl phthalate	8.32	163	88188	1900.4050078 ppb		99
50)	2,6-Dinitrotoluene	8.39	165	18862	2012.8432081 ppb		100
51)	3-Nitroaniline	8.58	138	22612	1977.4711820 ppb		96
52)	Acenaphthene	8.68	153	89642	1958.5701415 ppb		99
53)	2,4-Dinitrophenol	8.68	184	5481	1866.9599830 ppb	#	1
54)	Dibenzofuran	8.87	168	121951	1974.8711371 ppb		97
55)	2,4-Dinitrotoluene	8.82	165	23219	2003.3557985 ppb		87
56)	2,3,4,6-Tetrachlorophenol	0.00	232	0	N.D. d		
57)	4-Nitrophenol	8.72	139	16075	2018.4957833 ppb		93
58)	Fluorene	9.25	166	101926	1998.1353612 ppb		99
59)	4-Chlorophenyl-phenylether	9.23	204	46499	2012.1401399 ppb		96
60)	Diethyl phthalate	9.08	149	94778	1899.9047451 ppb		99
61)	4-Nitroaniline	9.24	138	23116	2147.4465380 ppb		98
62)	Azobenzene	9.40	77	117155	1984.7937655 ppb		99
63)	Atrazine	0.00	200	0	N.D. d		
65)	4,6-Dinitro-2-methylphenol	9.27	198	9122	1929.1997129 ppb		95
66)	N-Nitrosodiphenylamine	9.35	169	85522	1980.6190476 ppb		98
68)	4-Bromophenyl-phenylether	9.77	248	28552	1904.9990732 ppb		97
69)	Hexachlorobenzene	9.85	284	34016	1902.0515603 ppb		98
70)	n-octadecane	10.08	55	20221m	1906.7206749 ppb		
71)	Pentachlorophenol	10.05	266	16290	1914.8867452 ppb		97
72)	Phenanthrene	10.30	178	158032	1954.6608947 ppb		99
73)	Anthracene	10.36	178	159303	1977.3922892 ppb		99
74)	Carbazole	10.51	167	154903	1973.5155679 ppb		100
75)	Di-n-butyl phthalate	10.85	149	198148	1948.0835492 ppb		100
76)	2-nitrodiphenylamine	0.00	167	0	N.D.		
77)	Fluoranthene	11.60	202	190996	1966.3268904 ppb		98
79)	Benzidine	0.00	184	0	N.D.		
80)	Pyrene	11.85	202	202606	1982.4843862 ppb		99
82)	Benzylbutyl phthalate	12.47	149	94436	1926.3946384 ppb		98
83)	3,3-Dichlorobenzidine	0.00	252	0	N.D.		
84)	Benzo(a)anthracene	13.14	228	220188	1969.4766742 ppb		98
85)	Chrysene	13.18	228	200878	1973.3118252 ppb		97
86)	bis(2-Ethylhexyl)phthalate	13.06	149	141997	1808.2128628 ppb		100
87)	Di-n-octyl phthalate	13.72	149	249951	1914.3043689 ppb		100
89)	Benzo(b)fluoranthene	14.25	252	251890	2124.9753000 ppb		98
90)	Benzo(k)fluoranthene	14.28	252	215552	1895.8016227 ppb		99
91)	Benzo(a)pyrene	14.61	252	222756	1988.6514231 ppb		97
92)	Indeno(1,2,3-cd)pyrene	15.87	276	275917	1991.8972782 ppb		100
93)	Dibenz(a,h)anthracene	15.87	278	234410	2044.5921810 ppb		95
94)	Benzo(g,h,i)perylene	16.23	276	230220	1997.3055157 ppb		98

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\111214\1112 07.D Vial: 5
Acq On : 12 Nov 2014 12:45 pm Operator: 280
Sample : STD SVMS 2K PPB 14K07412 Inst : BNAMS11
Misc : 8270 Primary Calibration Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Nov 12 19:30 2014 Quant Results File: S811K12N.RES

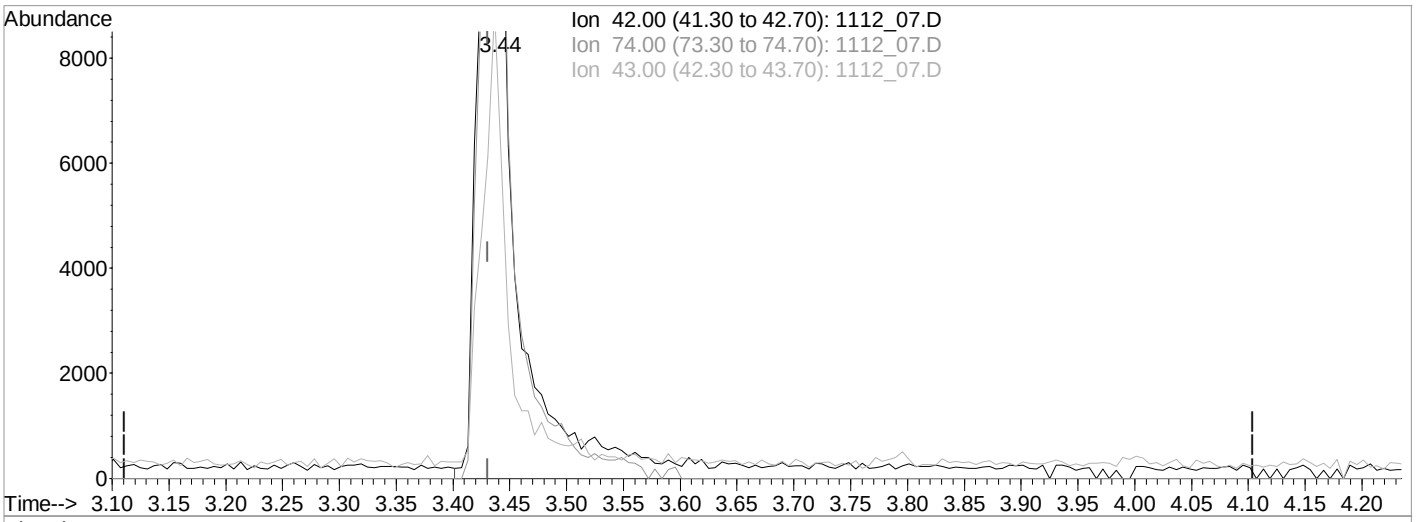
Method : C:\MSDCHEM\1\METHODS\S811K12N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Wed Nov 12 19:28:53 2014
Response via : Initial Calibration

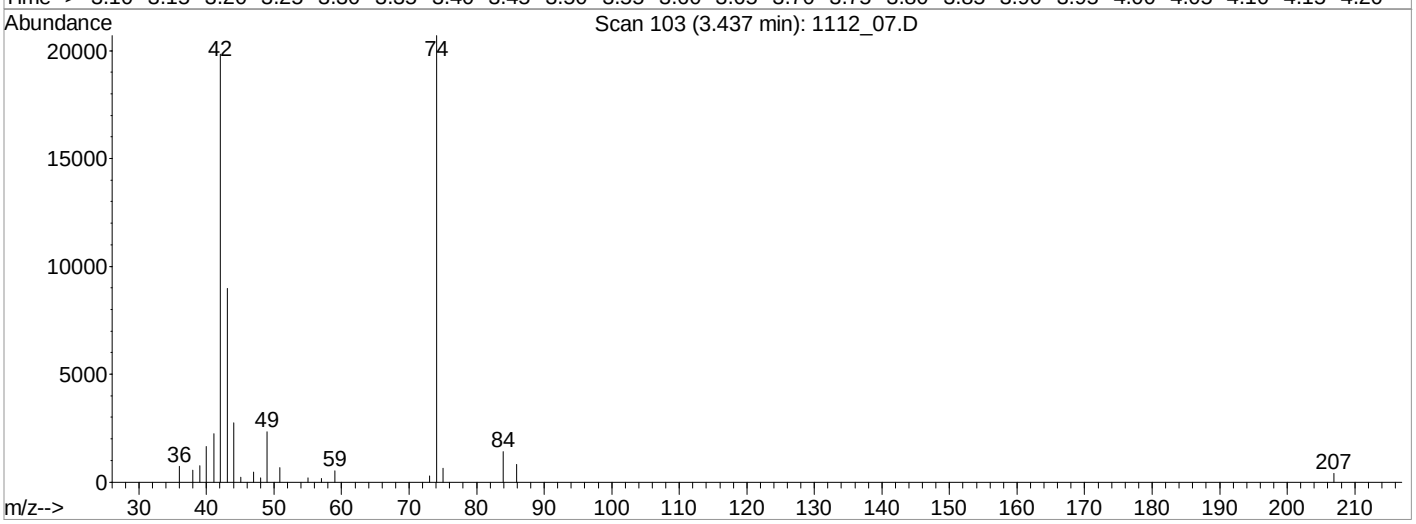


Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\111214\1112 07.D Vial: 5
Acq On : 12 Nov 2014 12:45 pm Operator: 280
Sample : STD SVMS 2K PPB 14K07412 Inst : BNAMS11
Misc : 8270 Primary Calibration Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Nov 12 19:29 2014 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\S811K12N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Wed Nov 12 19:28:53 2014
Response via : Multiple Level Calibration





TIC: 1112_07.D

(3) N-Nitrosodimethylamine (MT)

3.44min (+0.006) 2239.8994796 ppb

Qvalue = 84

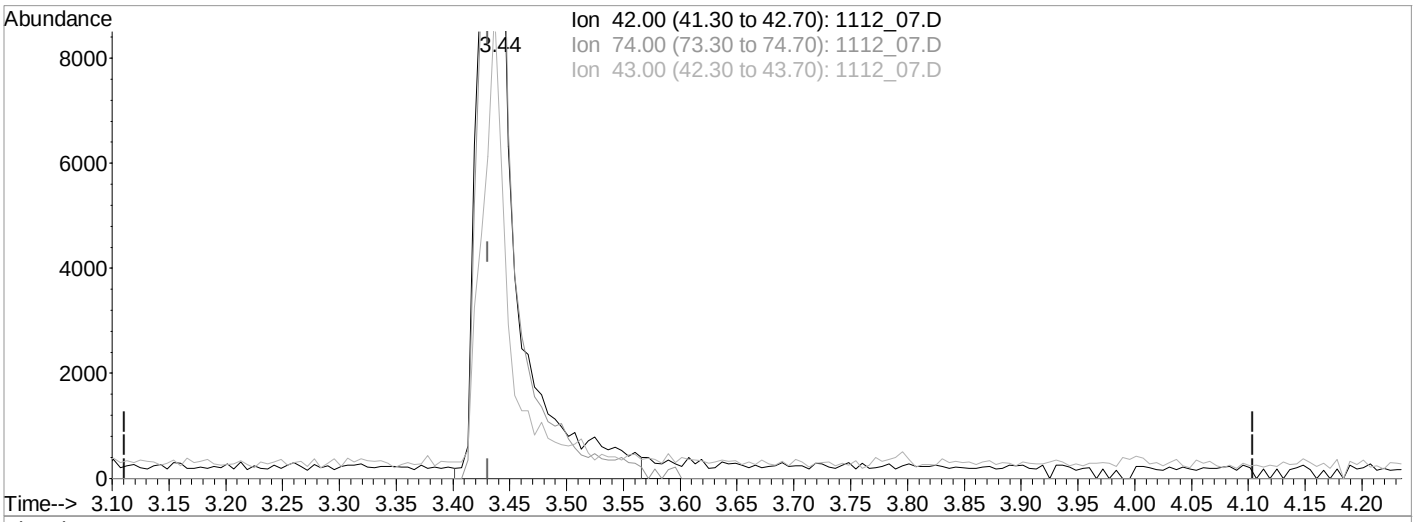
response 37504

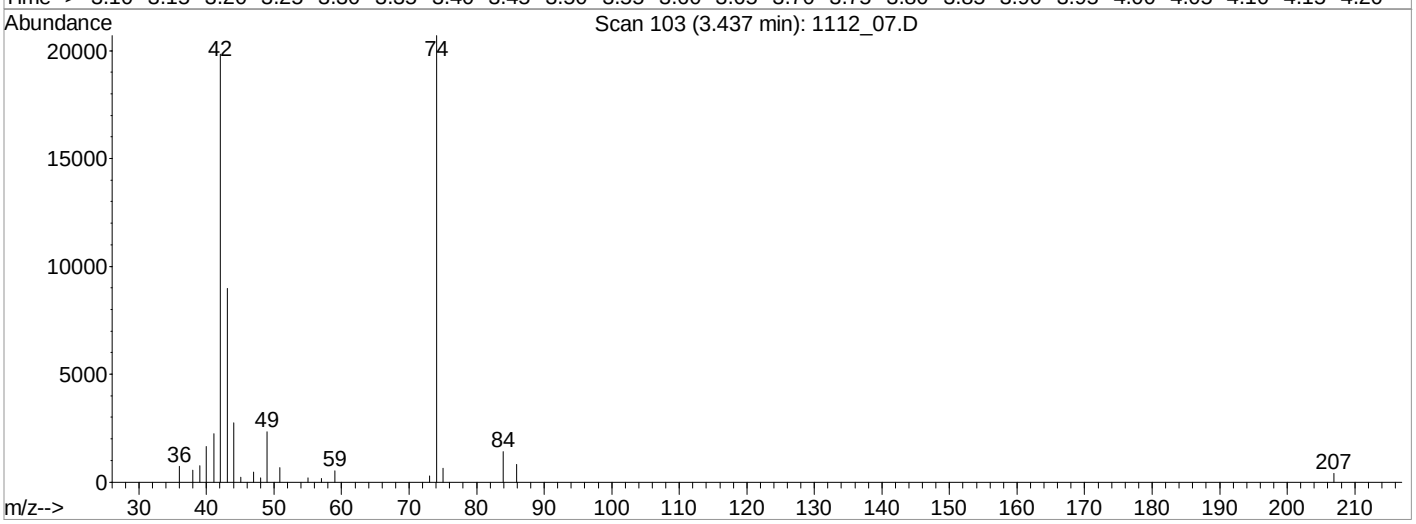
Ion	Exp%	Act%
42.00	100	100
74.00	103.40	83.09#
43.00	45.10	40.75
0.00	0.00	0.00

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\111214\1112 07.D Vial: 5
Acq On : 12 Nov 2014 12:45 pm Operator: 280
Sample : STD SVMS 2K PPB 14K07412 Inst : BNAMS11
Misc : 8270 Primary Calibration Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Nov 12 19:29 2014 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\S811K12N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Wed Nov 12 19:28:53 2014
Response via : Multiple Level Calibration





TIC: 1112_07.D

(3) N-Nitrosodimethylamine (MT)

3.44min (+0.006) 1934.1708790 ppb m

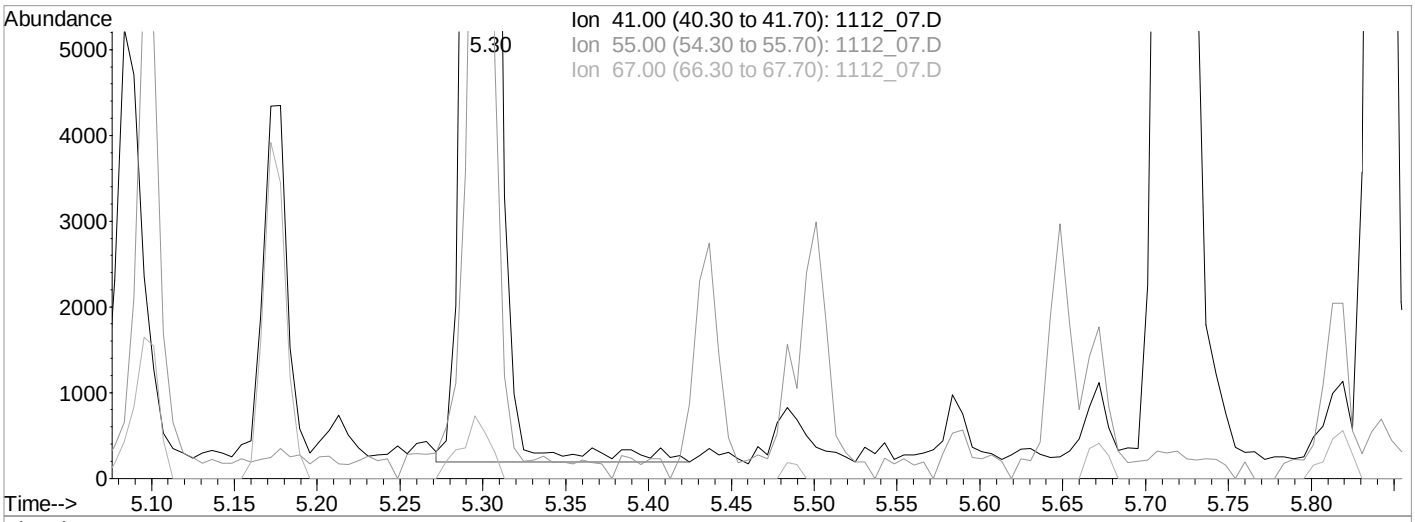
response 32385

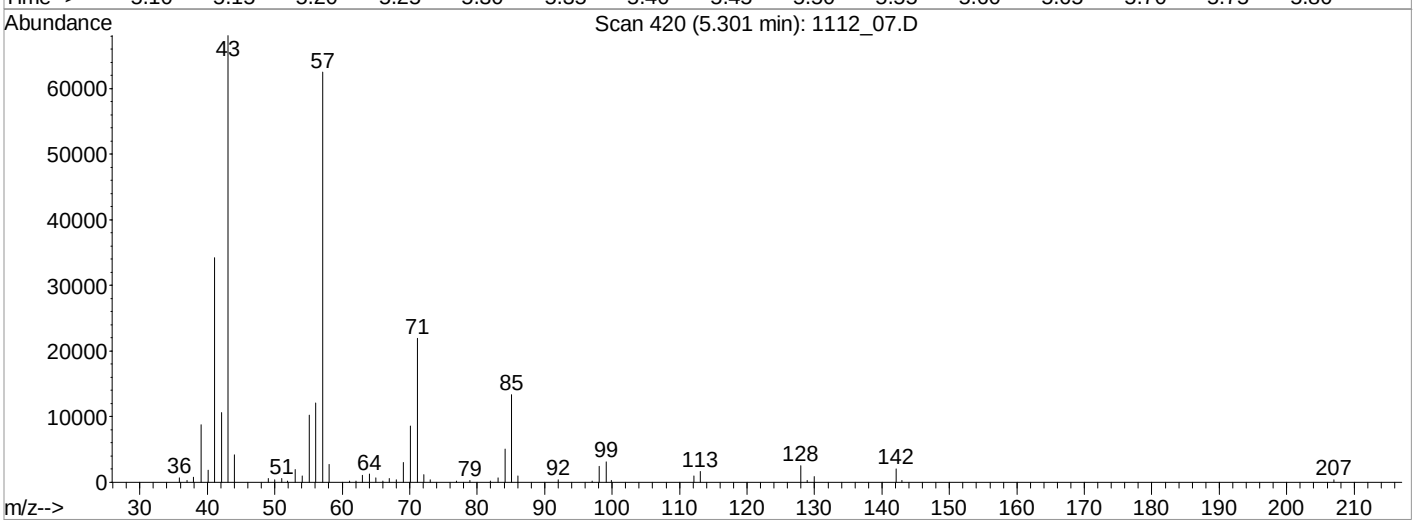
Ion	Exp%	Act%
42.00	100	100
74.00	103.40	96.22
43.00	45.10	47.19
0.00	0.00	0.00

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\111214\1112 07.D Vial: 5
Acq On : 12 Nov 2014 12:45 pm Operator: 280
Sample : STD SVMS 2K PPB 14K07412 Inst : BNAMS11
Misc : 8270 Primary Calibration Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Nov 12 19:29 2014 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\S811K12N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Wed Nov 12 19:28:53 2014
Response via : Multiple Level Calibration





TIC: 1112_07.D

(11) n-Decane (T)

5.30min (+0.006) 2091.8477389 ppb

Qvalue = 96

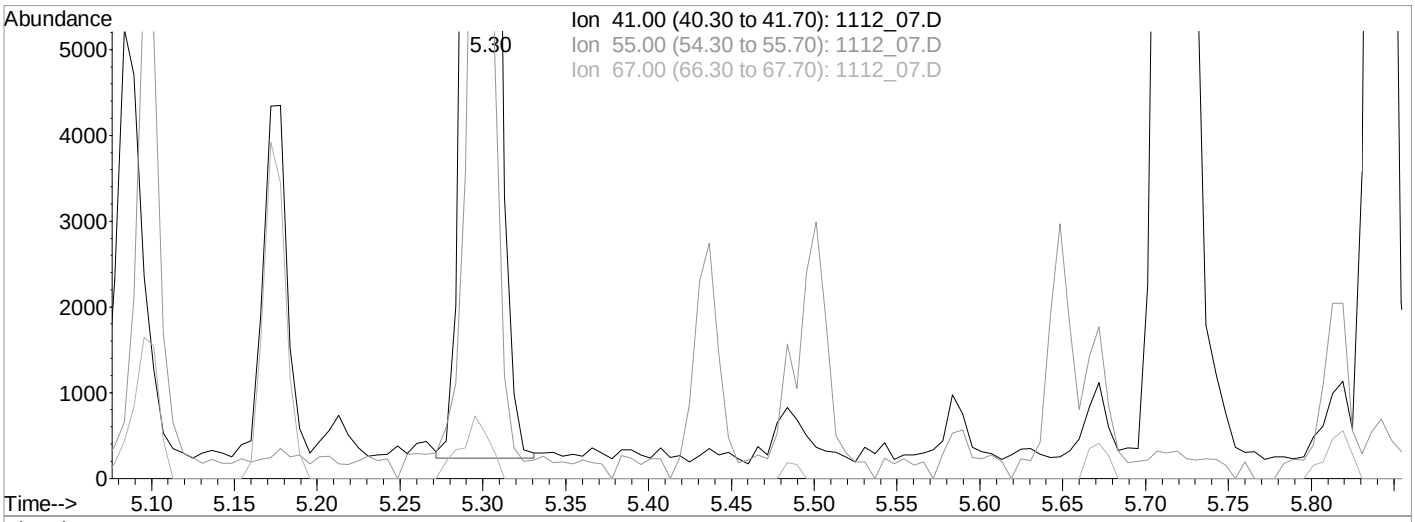
response 35020

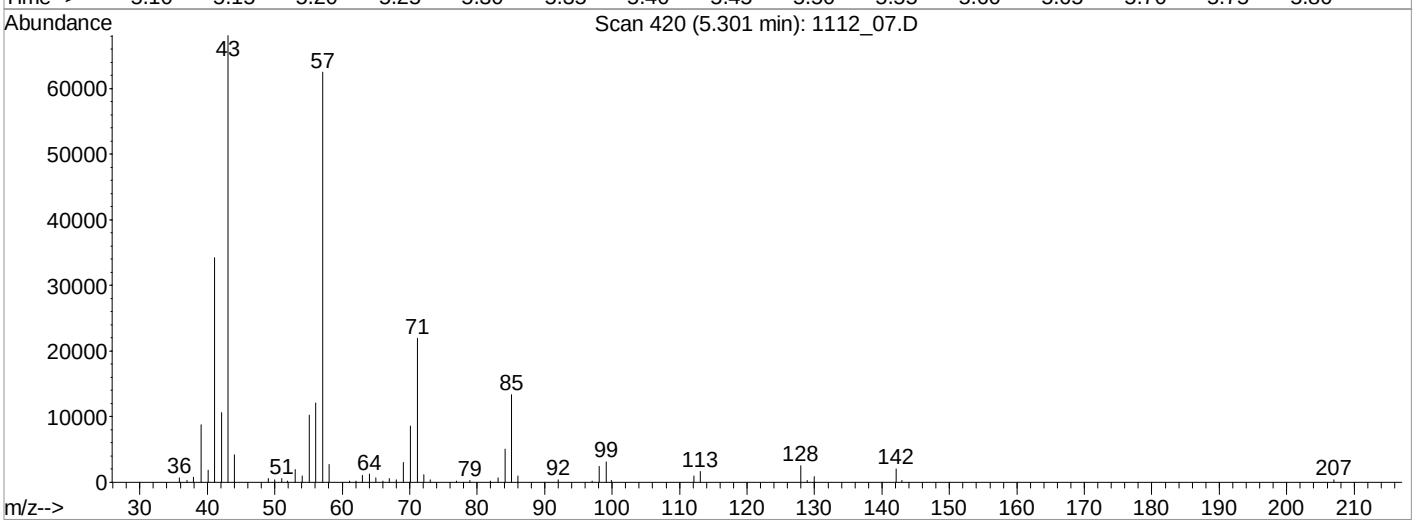
Ion	Exp%	Act%
41.00	100	100
55.00	33.10	35.45
67.00	2.50	2.46
0.00	0.00	0.00

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\111214\1112 07.D Vial: 5
Acq On : 12 Nov 2014 12:45 pm Operator: 280
Sample : STD SVMS 2K PPB 14K07412 Inst : BNAMS11
Misc : 8270 Primary Calibration Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Nov 12 19:29 2014 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\S811K12N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Wed Nov 12 19:28:53 2014
Response via : Multiple Level Calibration





TIC: 1112_07.D

(11) n-Decane (T)

5.30min (+0.006) 2051.3488021 ppb m

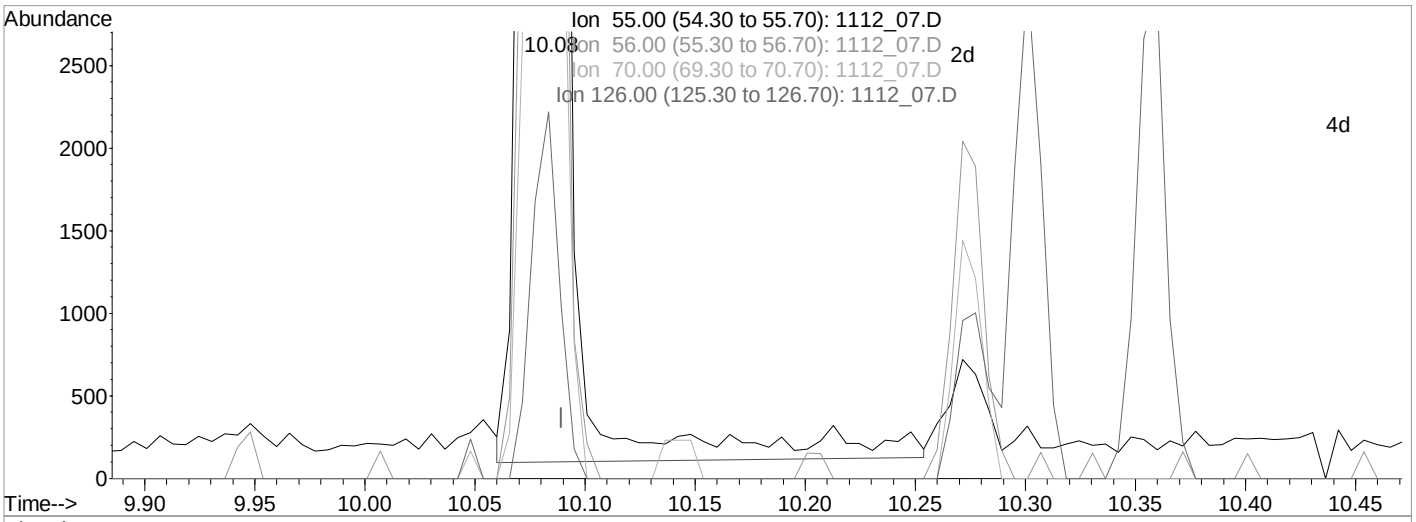
response 34342

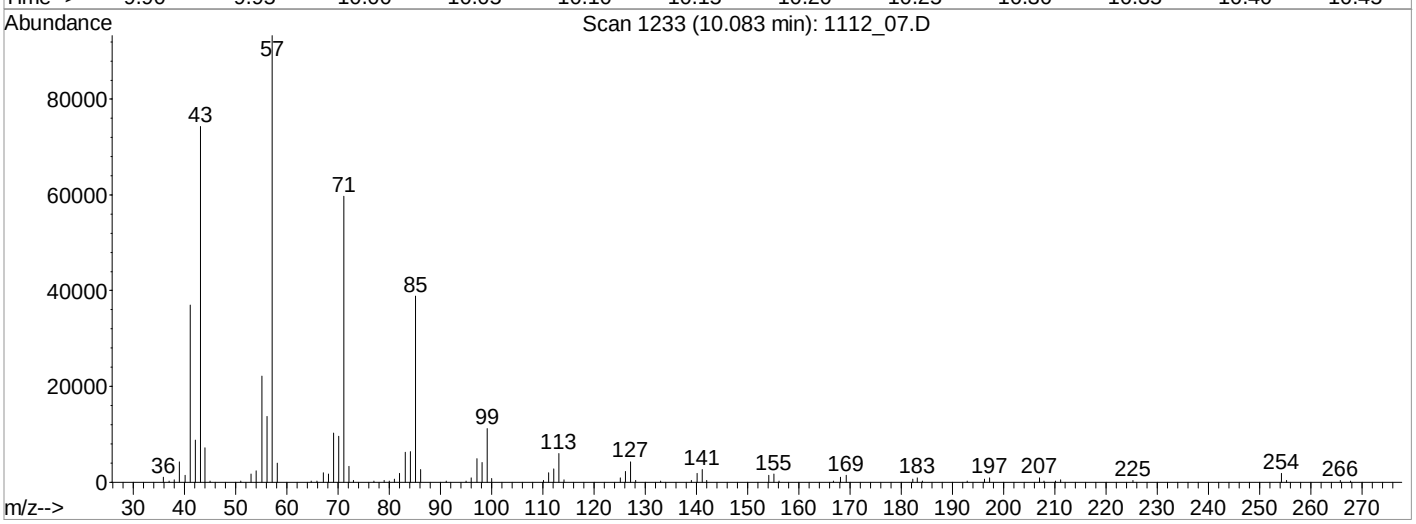
Ion	Exp%	Act%
41.00	100	100
55.00	33.10	36.15
67.00	2.50	2.51
0.00	0.00	0.00

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\111214\1112 07.D Vial: 5
Acq On : 12 Nov 2014 12:45 pm Operator: 280
Sample : STD SVMS 2K PPB 14K07412 Inst : BNAMS11
Misc : 8270 Primary Calibration Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Nov 12 19:30 2014 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\S811K12N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Wed Nov 12 19:28:53 2014
Response via : Multiple Level Calibration





TIC: 1112_07.D

(70) n-octadecane (T)

10.08min (-0.006) 1989.8880571 ppb

Qvalue = 97

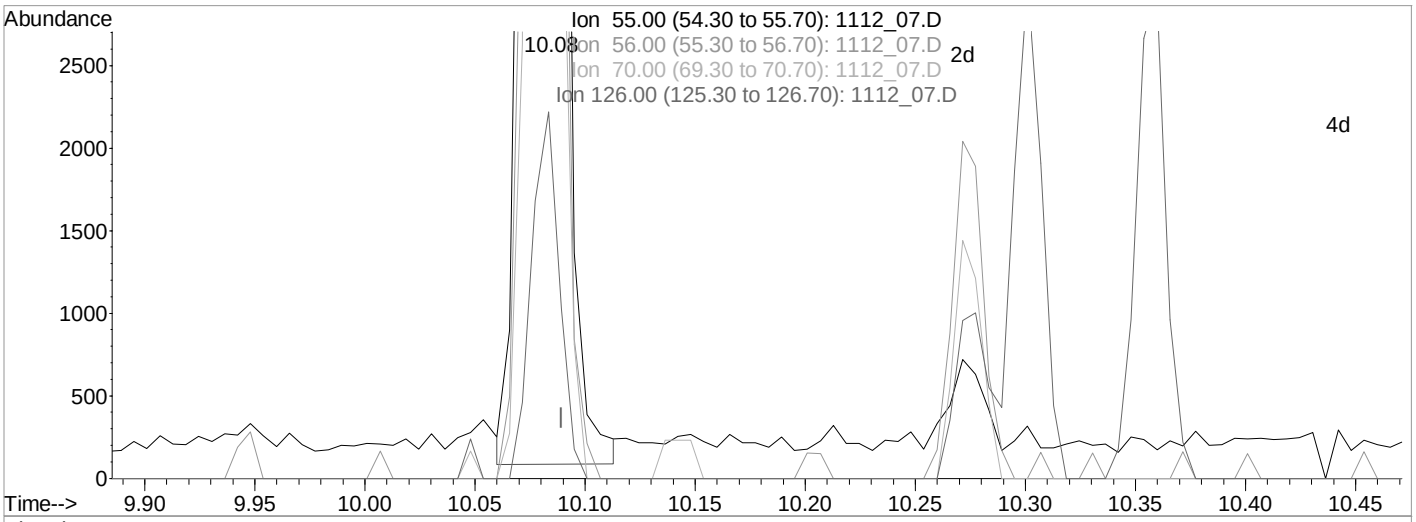
response 21103

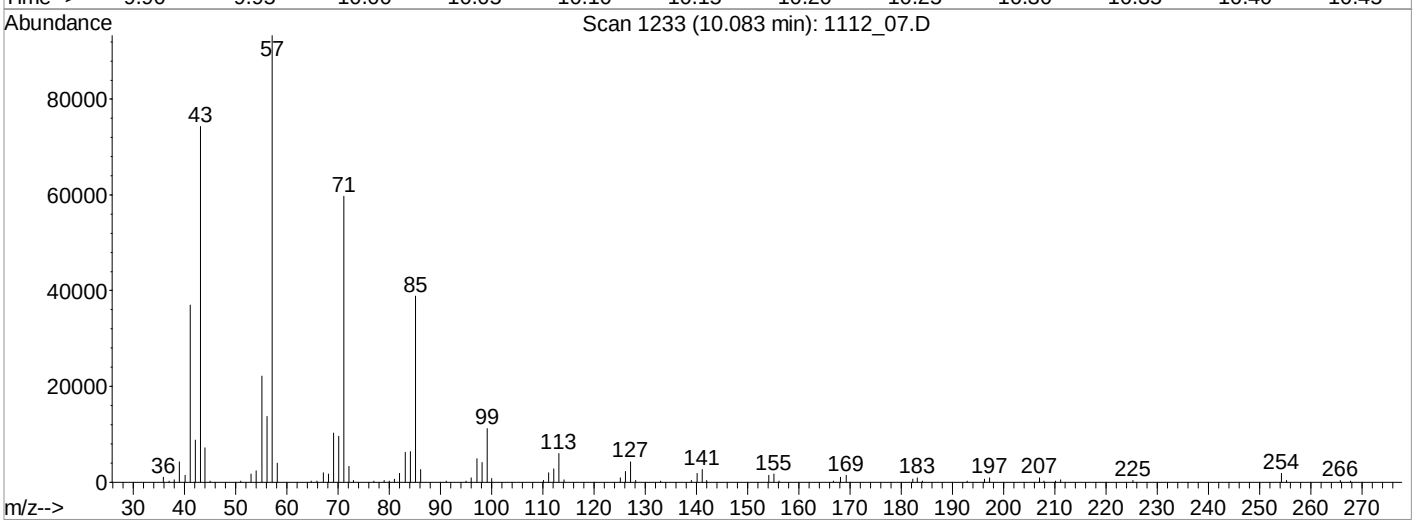
Ion	Exp%	Act%
55.00	100	100
56.00	63.50	60.82
70.00	45.70	43.06
126.00	9.80	9.30

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\111214\1112 07.D Vial: 5
Acq On : 12 Nov 2014 12:45 pm Operator: 280
Sample : STD SVMS 2K PPB 14K07412 Inst : BNAMS11
Misc : 8270 Primary Calibration Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Nov 12 19:30 2014 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\S811K12N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Wed Nov 12 19:28:53 2014
Response via : Multiple Level Calibration





TIC: 1112_07.D

(70) n-octadecane (T)

10.08min (-0.006) 1906.7206749 ppb m

response 20221

Ion	Exp%	Act%
55.00	100	100
56.00	63.50	63.47
70.00	45.70	44.94
126.00	9.80	9.70

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\111214\1112 08.D Vial: 6
Acq On : 12 Nov 2014 1:06 pm Operator: 280
Sample : STD SVMS 5K PPB 14K07412 Inst : BNAMS11
Misc : 8270 Primary Calibration Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Nov 12 19:35 2014 Quant Results File: S811K12N.RES

Quant Method : C:\MSDCHEM\1\METHODS\S811K12N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Wed Nov 12 19:32:52 2014
Response via : Initial Calibration
DataAcq Meth : BNA11A

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	5.48	152	104722	8000.00 ppb	0.00
22) Naphthalene-d8	6.76	136	457056	8000.00 ppb	0.00
40) Acenaphthene-d10	8.65	164	276666	8000.00 ppb	0.00
64) Phenanthrene-d10	10.28	188	500910	8000.00 ppb	0.00
78) Chrysene-d12	13.15	240	636423	8000.00 ppb	-0.02
88) Perylene-d12	14.66	264	766624	8000.00 ppb	-0.05

System Monitoring Compounds					
4) 2-Fluorophenol	4.36	112	91191	4796.9487089 ppb	0.01
Spiked Amount 20.000	Range 10 - 74		Recovery = 23984.74%#		
7) Phenol-d5	5.09	99	126741	4851.8238811 ppb	0.00
Spiked Amount 20.000	Range 10 - 63		Recovery = 24259.12%#		
23) Nitrobenzene-d5	6.01	82	123315	4907.3105559 ppb	0.00
Spiked Amount 10.000	Range 28 - 123		Recovery = 49073.11%#		
44) 2-Fluorobiphenyl	7.90	172	233430	4829.7870326 ppb	0.00
Spiked Amount 10.000	Range 35 - 133		Recovery = 48297.87%#		
67) 2,4,6-Tribromophenol	9.51	330	34950	4927.2827792 ppb	0.00
Spiked Amount 20.000	Range 22 - 154		Recovery = 24636.41%#		
81) p-Terphenyl-d14	11.98	244	390281	4998.0350684 ppb	0.00
Spiked Amount 10.000	Range 30 - 148		Recovery = 49980.35%#		

Target Compounds					Qvalue
2) Pyridine	3.47	79	142630	4863.7753448 ppb	98
3) N-Nitrosodimethylamine	3.44	42	84118	4984.0154168 ppb	93
5) Aniline	5.18	66	69057	4962.5952085 ppb	97
6) bis(2-Chloroethyl)ether	5.21	63	91251	4862.9315898 ppb	94
8) Phenol	5.10	94	131200	4830.4853971 ppb	97
9) Benzaldehyde	0.00	105	0	N.D. d	
10) 2-Chlorophenol	5.28	128	102552	4900.8562337 ppb	99
11) n-Decane	5.30	41	83209	4859.1089729 ppb	99
12) 1,3-Dichlorobenzene	5.44	146	111030	4785.5051566 ppb	99
13) 1,4-Dichlorobenzene	5.50	146	110667	4665.1446942 ppb	96
14) Benzyl Alcohol	5.59	79	99314	4956.1969444 ppb	99
15) 1,2-Dichlorobenzene	5.65	146	106971	4775.6305521 ppb	97
16) bis(2-Chloroisopropyl)ethe	5.72	121	33631	4816.7687810 ppb	97
17) 2-Methylphenol	5.67	108	95351	4816.8143428 ppb	97
18) Hexachloroethane	5.98	117	47430	4798.4985800 ppb	98
19) N-Nitrosodi-n-propylamine	5.84	70	89339	4874.0112220 ppb	97
20) 3&4-Methyl phenol	5.82	107	110097	4948.0847237 ppb	98
21) Acetophenone	0.00	105	0	N.D. d	
24) Nitrobenzene	6.04	77	126414	4800.2067368 ppb	96
25) Isophorone	6.27	82	219063	4836.1880259 ppb	98
26) 2-Nitrophenol	6.35	139	48822	5051.8940566 ppb	96
27) 2,4-Dimethylphenol	6.36	107	112254	4884.4844222 ppb	98
28) bis(2-Chlorethoxy)methane	6.47	93	135816	4721.3495161 ppb	100
29) 2,4-Dichlorophenol	6.59	162	82266	4801.2640730 ppb	99
30) Benzoic Acid	0.00	105	0	N.D. d	
31) 1,2,4-Trichlorobenzene	6.70	180	93179	4707.3608393 ppb	98
32) Naphthalene	6.78	128	323712	4373.8822421 ppb	99
33) 4-Chloroaniline	6.82	65	47201	4658.9154697 ppb	100
34) Hexachloro-1,3-butadiene	6.90	225	53446	4763.9182920 ppb	98
35) Caprolactam	0.00	113	0	N.D. d	
36) 4-Chloro-3-methylphenol	7.30	107	98530	4902.4951915 ppb	94
37) 2-Methylnaphthalene	7.52	142	226363	4748.6731548 ppb	99
38) 1-Methylnaphthalene	7.62	142	208183	4709.8849829 ppb	99

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\111214\1112 08.D Vial: 6
Acq On : 12 Nov 2014 1:06 pm Operator: 280
Sample : STD SVMS 5K PPB 14K07412 Inst : BNAMS11
Misc : 8270 Primary Calibration Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Nov 12 19:35 2014 Quant Results File: S811K12N.RES

Quant Method : C:\MSDCHEM\1\METHODS\S811K12N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Wed Nov 12 19:32:52 2014
Response via : Initial Calibration
DataAcq Meth : BNA11A

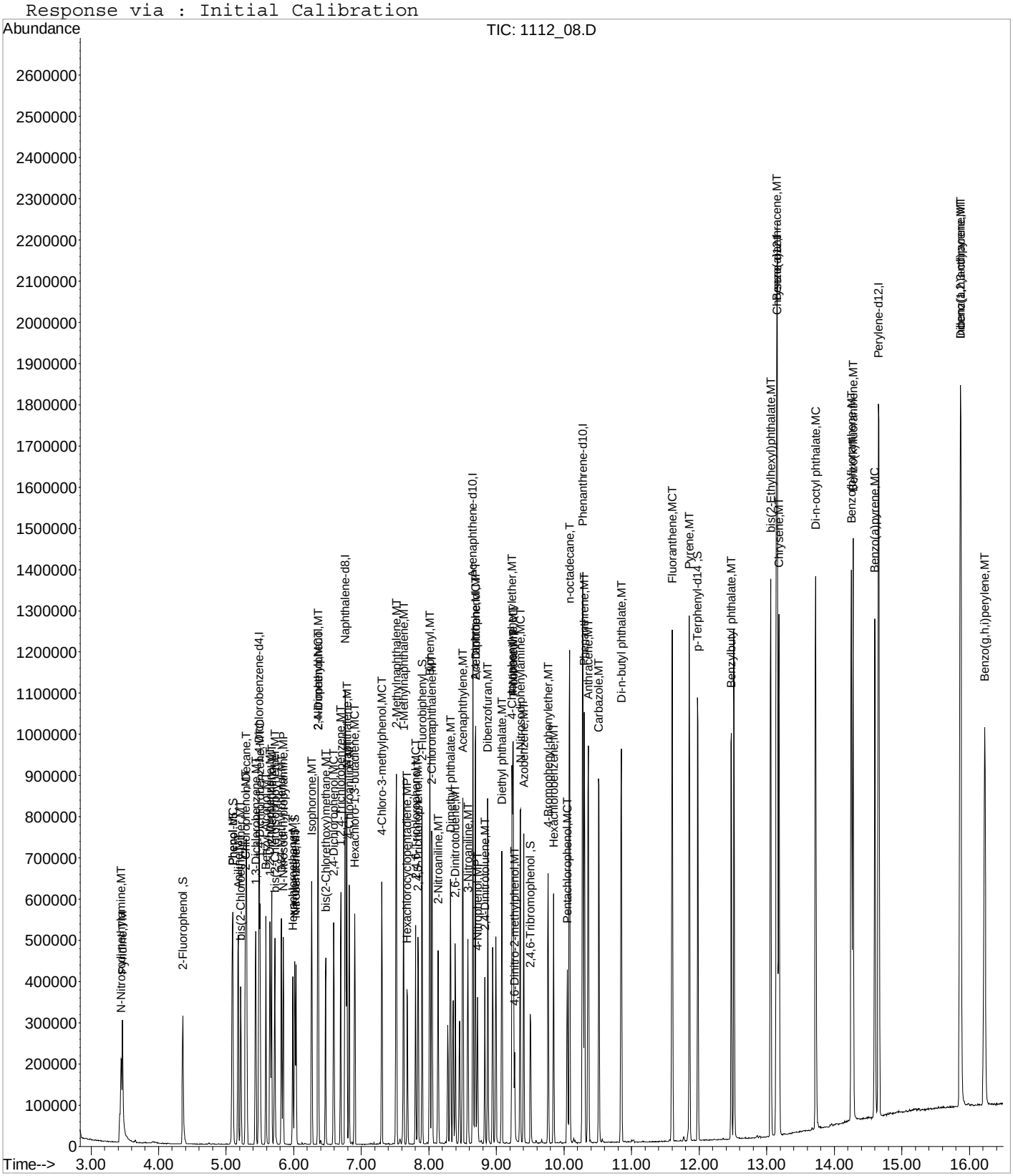
	Compound	R.T.	QIon	Response	Conc Unit		Qvalue
39)	1,2,4,5-Tetrachlorobenzene	0.00	216	0	N.D. d		
41)	Hexachlorocyclopentadiene	7.68	237	56257	5036.6045112 ppb		99
42)	2,4,6-Trichlorophenol	7.80	196	57637	5114.7056454 ppb		93
43)	2,4,5-Trichlorophenol	7.84	196	64589	5086.0472848 ppb		95
45)	Biphenyl	8.01	154	265983	4814.6407576 ppb		99
46)	2-Chloronaphthalene	8.04	162	205895	4772.4170102 ppb		98
47)	2-Nitroaniline	8.14	138	63956	5336.5498550 ppb		100
48)	Acenaphthylene	8.50	152	321862	4871.3588929 ppb		100
49)	Dimethyl phthalate	8.32	163	214959	4754.5324153 ppb		99
50)	2,6-Dinitrotoluene	8.39	165	49145	5307.3748622 ppb		98
51)	3-Nitroaniline	8.58	138	57853	5142.7651150 ppb		98
52)	Acenaphthene	8.69	153	214866	4783.2723022 ppb		98
53)	2,4-Dinitrophenol	8.69	184	16876	5925.1949675 ppb	#	27
54)	Dibenzofuran	8.87	168	287021	4726.1582371 ppb		99
55)	2,4-Dinitrotoluene	8.83	165	61741	5397.3548685 ppb		98
56)	2,3,4,6-Tetrachlorophenol	0.00	232	0	N.D. d		
57)	4-Nitrophenol	8.72	139	44219	5615.1031553 ppb		97
58)	Fluorene	9.25	166	242051	4810.8622112 ppb		98
59)	4-Chlorophenyl-phenylether	9.23	204	109930	4814.4553709 ppb		97
60)	Diethyl phthalate	9.08	149	236762	4871.6860741 ppb		99
61)	4-Nitroaniline	9.24	138	52788	4880.7686890 ppb		99
62)	Azobenzene	9.40	77	284818	4900.3054330 ppb		99
63)	Atrazine	0.00	200	0	N.D. d		
65)	4,6-Dinitro-2-methylphenol	9.27	198	27358	5947.7112224 ppb		97
66)	N-Nitrosodiphenylamine	9.35	169	199046	4708.1223639 ppb		99
68)	4-Bromophenyl-phenylether	9.77	248	70153	4826.2567611 ppb		97
69)	Hexachlorobenzene	9.85	284	83256	4802.0036955 ppb		98
70)	n-octadecane	10.08	55	53006	5152.5337728 ppb		95
71)	Pentachlorophenol	10.05	266	43749	5296.0636885 ppb		96
72)	Phenanthrene	10.30	178	374042	4740.5949864 ppb		99
73)	Anthracene	10.36	178	385901	4894.3114415 ppb		99
74)	Carbazole	10.52	167	372359	4849.5395045 ppb		100
75)	Di-n-butyl phthalate	10.85	149	498493	5025.9977642 ppb		100
76)	2-nitrodiphenylamine	0.00	167	0	N.D.		
77)	Fluoranthene	11.60	202	466654	4915.5948527 ppb		99
79)	Benzidine	0.00	184	0	N.D.		
80)	Pyrene	11.85	202	491154	4918.7240976 ppb		99
82)	Benzylbutyl phthalate	12.48	149	239991	5045.9428051 ppb		95
83)	3,3-Dichlorobenzidine	0.00	252	0	N.D.		
84)	Benzo(a)anthracene	13.14	228	519450	4763.0651686 ppb		98
85)	Chrysene	13.18	228	477056	4801.8582762 ppb		98
86)	bis(2-Ethylhexyl)phthalate	13.06	149	360856	4808.0397967 ppb		99
87)	Di-n-octyl phthalate	13.72	149	628993	4972.8408202 ppb		99
89)	Benzo(b)fluoranthene	14.25	252	587836	4931.7136385 ppb		99
90)	Benzo(k)fluoranthene	14.28	252	549981	4950.0895203 ppb		98
91)	Benzo(a)pyrene	14.60	252	554666	5008.5047449 ppb		97
92)	Indeno(1,2,3-cd)pyrene	15.87	276	693219	5059.7586834 ppb		98
93)	Dibenz(a,h)anthracene	15.87	278	579666	5078.3790946 ppb		98
94)	Benzo(g,h,i)perylene	16.22	276	577151	5059.0384258 ppb		99

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\111214\1112 08.D Vial: 6
Acq On : 12 Nov 2014 1:06 pm Operator: 280
Sample : STD SVMS 5K PPB 14K07412 Inst : BNAMS11
Misc : 8270 Primary Calibration Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Nov 12 19:35 2014 Quant Results File: S811K12N.RES

Method : C:\MSDCHEM\1\METHODS\S811K12N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Wed Nov 12 19:32:52 2014
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\111214\1112 09.D Vial: 7
Acq On : 12 Nov 2014 1:28 pm Operator: 280
Sample : STD SVMS 20K PPB 14K07412 Inst : BNAMS11
Misc : 8270 Primary Calibration Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Nov 12 20:05 2014 Quant Results File: S811K12N.RES

Quant Method : C:\MSDCHEM\1\METHODS\S811K12N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Wed Nov 12 19:47:02 2014
Response via : Initial Calibration
DataAcq Meth : BNA11A

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	5.49	152	99723	8000.00 ppb	0.00
22) Naphthalene-d8	6.77	136	439212	8000.00 ppb	0.00
40) Acenaphthene-d10	8.65	164	264570	8000.00 ppb	0.00
64) Phenanthrene-d10	10.28	188	487030	8000.00 ppb	0.00
78) Chrysene-d12	13.16	240	587879	8000.00 ppb	-0.02
88) Perylene-d12	14.67	264	754836	8000.00 ppb	-0.05

System Monitoring Compounds					
4) 2-Fluorophenol	4.36	112	353944	19961.9751933 ppb	0.01
Spiked Amount 20.000	Range 10 - 74		Recovery = 99809.88%#		
7) Phenol-d5	5.10	99	485248	19990.4099648 ppb	0.01
Spiked Amount 20.000	Range 10 - 63		Recovery = 99952.05%#		
23) Nitrobenzene-d5	6.02	82	475936	20132.1939226 ppb	0.00
Spiked Amount 10.000	Range 28 - 123		Recovery = 201321.94%#		
44) 2-Fluorobiphenyl	7.90	172	821459	19092.5725582 ppb	0.00
Spiked Amount 10.000	Range 35 - 133		Recovery = 190925.73%#		
67) 2,4,6-Tribromophenol	9.51	330	144507	20067.5232561 ppb	0.00
Spiked Amount 20.000	Range 22 - 154		Recovery = 100337.62%#		
81) p-Terphenyl-d14	11.98	244	1344780	19548.2028740 ppb	0.00
Spiked Amount 10.000	Range 30 - 148		Recovery = 195482.03%#		

Target Compounds					Qvalue
2) Pyridine	3.47	79	542174	19844.4201588 ppb	99
3) N-Nitrosodimethylamine	3.44	42	322798	20350.0955769 ppb	96
5) Aniline	5.18	66	257438	20020.6769990 ppb	97
6) bis(2-Chloroethyl)ether	5.22	63	340376	19995.5792794 ppb	97
8) Phenol	5.11	94	486636	19641.6896381 ppb	99
9) Benzaldehyde	0.00	105	0	N.D. d	
10) 2-Chlorophenol	5.29	128	379577	19828.0635540 ppb	97
11) n-Decane	5.30	41	299145	19790.0695216 ppb	99
12) 1,3-Dichlorobenzene	5.44	146	407677	19437.1598221 ppb	98
13) 1,4-Dichlorobenzene	5.50	146	406688	19165.2822617 ppb	95
14) Benzyl Alcohol	5.60	79	372803	19977.0661673 ppb	100
15) 1,2-Dichlorobenzene	5.65	146	395522	19537.4888582 ppb	99
16) bis(2-Chloroisopropyl)ethe	5.72	121	121827	19282.5176359 ppb	93
17) 2-Methylphenol	5.68	108	350600	19471.6529537 ppb	98
18) Hexachloroethane	5.99	117	180543	19864.9143702 ppb	99
19) N-Nitrosodi-n-propylamine	5.85	70	331716	19735.1468930 ppb	99
20) 3&4-Methyl phenol	5.82	107	408610	19728.4913485 ppb	97
21) Acetophenone	0.00	105	0	N.D. d	
24) Nitrobenzene	6.04	77	474308	19686.0709117 ppb	97
25) Isophorone	6.27	82	809632	19511.4016437 ppb	99
26) 2-Nitrophenol	6.36	139	198566	20512.3272244 ppb	93
27) 2,4-Dimethylphenol	6.37	107	399062	19230.7375775 ppb	99
28) bis(2-Chlorethoxy)methane	6.48	93	499783	19291.2853359 ppb	100
29) 2,4-Dichlorophenol	6.60	162	308436	19395.0266274 ppb	99
30) Benzoic Acid	0.00	105	0	N.D. d	
31) 1,2,4-Trichlorobenzene	6.70	180	337633	18939.5938023 ppb	96
32) Naphthalene	6.79	128	1184920m	18542.4771405 ppb	
33) 4-Chloroaniline	6.82	65	179516	19477.8472688 ppb	93
34) Hexachloro-1,3-butadiene	6.91	225	193224	19012.0047793 ppb	99
35) Caprolactam	0.00	113	0	N.D. d	
36) 4-Chloro-3-methylphenol	7.31	107	376682	19939.7773422 ppb	93
37) 2-Methylnaphthalene	7.52	142	816876	19142.6778023 ppb	99
38) 1-Methylnaphthalene	7.63	142	750407	19016.9079696 ppb	99

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\111214\1112 09.D Vial: 7
Acq On : 12 Nov 2014 1:28 pm Operator: 280
Sample : STD SVMS 20K PPB 14K07412 Inst : BNAMS11
Misc : 8270 Primary Calibration Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Nov 12 20:05 2014 Quant Results File: S811K12N.RES

Quant Method : C:\MSDCHEM\1\METHODS\S811K12N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Wed Nov 12 19:47:02 2014
Response via : Initial Calibration
DataAcq Meth : BNA11A

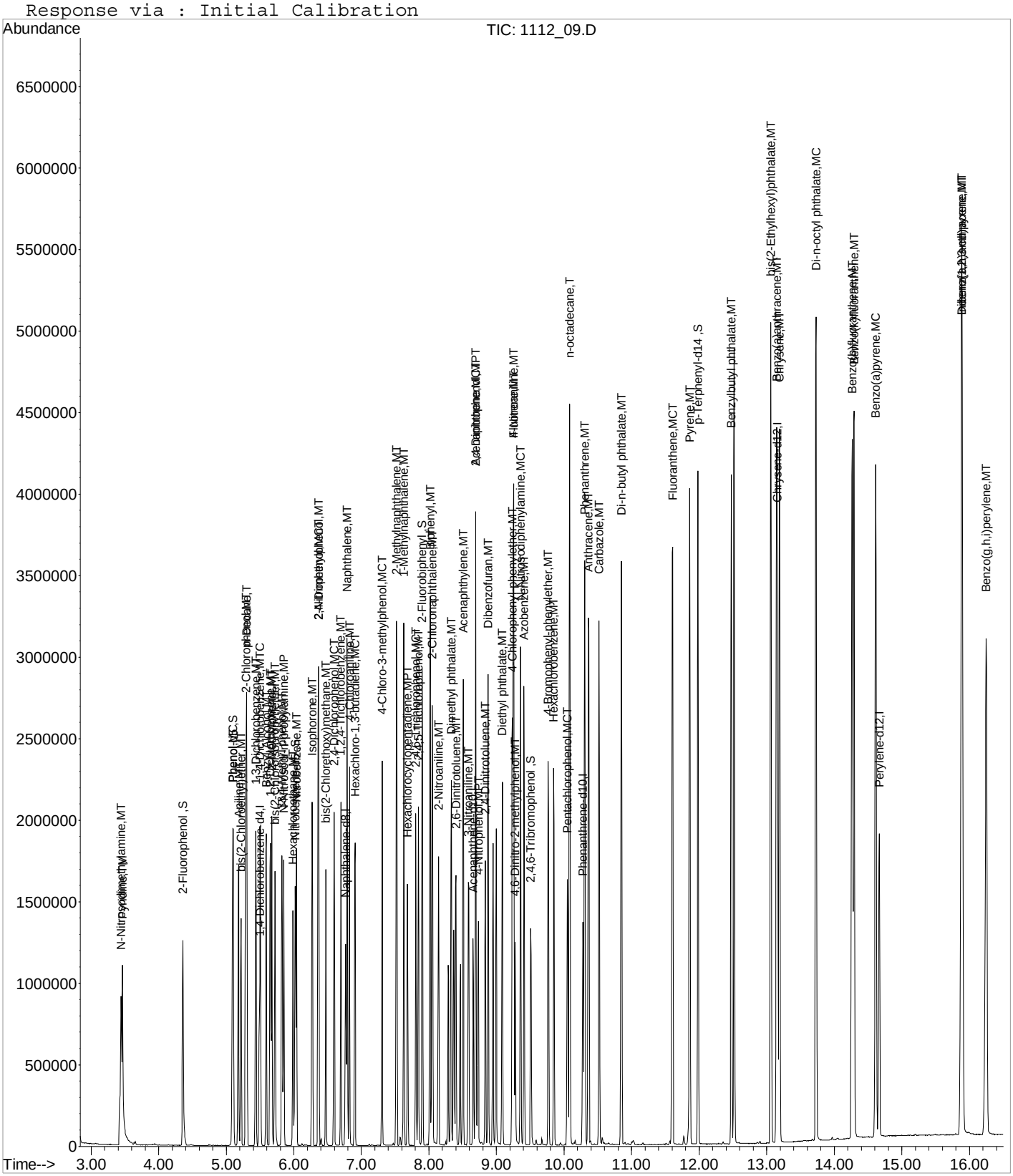
	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
39)	1,2,4,5-Tetrachlorobenzene	0.00	216	0	N.D. d			
41)	Hexachlorocyclopentadiene	7.68	237	218054	20074.3336975	ppb		99
42)	2,4,6-Trichlorophenol	7.81	196	223703	20436.7260501	ppb		96
43)	2,4,5-Trichlorophenol	7.84	196	238567	19937.5215747	ppb		96
45)	Biphenyl	8.02	154	943676	19205.6797548	ppb		100
46)	2-Chloronaphthalene	8.05	162	726916	19009.3251697	ppb		98
47)	2-Nitroaniline	8.14	138	254862	20877.8766758	ppb		99
48)	Acenaphthylene	8.51	152	1148038	19331.8408107	ppb		100
49)	Dimethyl phthalate	8.33	163	815737	19582.4915612	ppb		99
50)	2,6-Dinitrotoluene	8.40	165	191621	20661.3995994	ppb		97
51)	3-Nitroaniline	8.59	138	230551	20798.4802838	ppb		94
52)	Acenaphthene	8.70	153	757821	19099.1072842	ppb		99
53)	2,4-Dinitrophenol	8.70	184	92193	24202.5100367	ppb	#	72
54)	Dibenzofuran	8.88	168	1003431	18699.7220585	ppb		99
55)	2,4-Dinitrotoluene	8.84	165	265307	21880.0570215	ppb		91
56)	2,3,4,6-Tetrachlorophenol	0.00	232	0	N.D. d			
57)	4-Nitrophenol	8.73	139	184142	21782.2181903	ppb		97
58)	Fluorene	9.25	166	844790	18889.2335958	ppb		99
59)	4-Chlorophenyl-phenylether	9.24	204	395307	18966.0549267	ppb		97
60)	Diethyl phthalate	9.09	149	901807	20038.3274408	ppb		98
61)	4-Nitroaniline	9.25	138	204732	19731.8574959	ppb		100
62)	Azobenzene	9.41	77	1077240	19810.4417129	ppb		99
63)	Atrazine	0.00	200	0	N.D. d			
65)	4,6-Dinitro-2-methylphenol	9.28	198	131364	22892.1083890	ppb		89
66)	N-Nitrosodiphenylamine	9.36	169	744297	19244.0319507	ppb		99
68)	4-Bromophenyl-phenylether	9.77	248	260421	19110.6860481	ppb		96
69)	Hexachlorobenzene	9.85	284	310707	19126.6614872	ppb		98
70)	n-octadecane	10.08	55	197036	20296.8206050	ppb		99
71)	Pentachlorophenol	10.05	266	184125	20892.4269056	ppb		96
72)	Phenanthrene	10.31	178	1302758	18643.1266581	ppb		100
73)	Anthracene	10.37	178	1352271	19129.7609100	ppb		100
74)	Carbazole	10.52	167	1248252	18347.0051957	ppb		99
75)	Di-n-butyl phthalate	10.85	149	1755394	19457.0315379	ppb		99
76)	2-nitrodiphenylamine	0.00	167	0	N.D. d			
77)	Fluoranthene	11.61	202	1607107	18997.2416037	ppb		100
79)	Benzidine	0.00	184	0	N.D.			
80)	Pyrene	11.86	202	1692322	19443.4251225	ppb		100
82)	Benzylbutyl phthalate	12.48	149	928007	20869.9496355	ppb		97
83)	3,3-Dichlorobenzidine	0.00	252	0	N.D.			
84)	Benzo(a)anthracene	13.15	228	1764975	19021.3510439	ppb		100
85)	Chrysene	13.19	228	1599823	19040.2634743	ppb		99
86)	bis(2-Ethylhexyl)phthalate	13.06	149	1343021	20186.7202002	ppb		100
87)	Di-n-octyl phthalate	13.73	149	2340624	20662.9283371	ppb		99
89)	Benzo(b)fluoranthene	14.27	252	2121872	19760.5346331	ppb		99
90)	Benzo(k)fluoranthene	14.29	252	1872701	17805.7412598	ppb		98
91)	Benzo(a)pyrene	14.61	252	2021554	19685.7338649	ppb		99
92)	Indeno(1,2,3-cd)pyrene	15.89	276	2436019	19346.0566181	ppb		98
93)	Dibenz(a,h)anthracene	15.89	278	2035376	19415.6160880	ppb		98
94)	Benzo(g,h,i)perylene	16.25	276	2135786	20028.2003246	ppb		98

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\111214\1112 09.D Vial: 7
Acq On : 12 Nov 2014 1:28 pm Operator: 280
Sample : STD SVMS 20K PPB 14K07412 Inst : BNAMS11
Misc : 8270 Primary Calibration Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Nov 12 20:05 2014 Quant Results File: S811K12N.RES

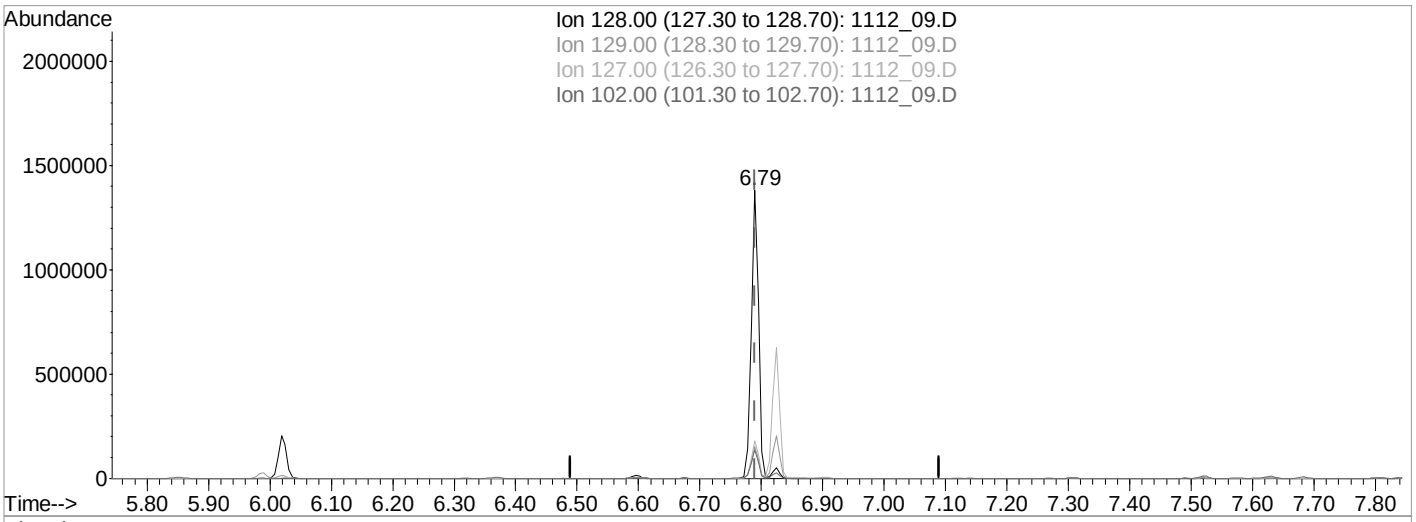
Method : C:\MSDCHEM\1\METHODS\S811K12N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Wed Nov 12 19:36:25 2014
Response via : Initial Calibration

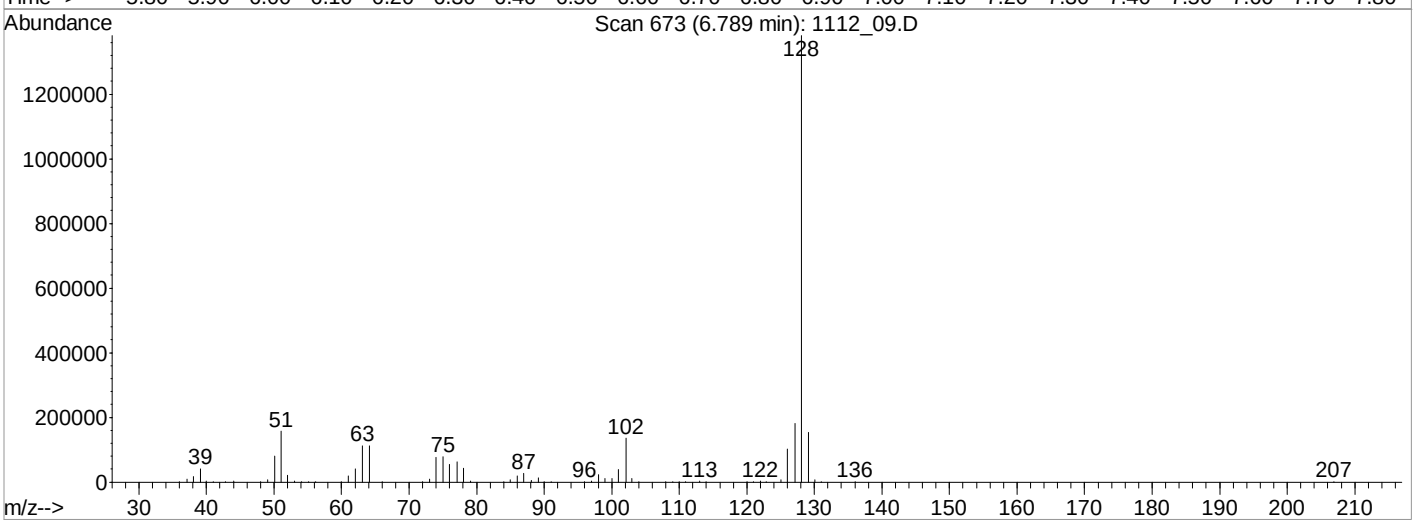


Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\111214\1112 09.D Vial: 7
Acq On : 12 Nov 2014 1:28 pm Operator: 280
Sample : STD SVMS 20K PPB 14K07412 Inst : BNAMS11
Misc : 8270 Primary Calibration Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Nov 12 20:05 2014 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\S811K12N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Wed Nov 12 19:36:25 2014
Response via : Multiple Level Calibration





TIC: 1112_09.D

(32) Naphthalene (MT)

6.79min (-0.000) 17974.4287320 ppb

Qvalue = 99

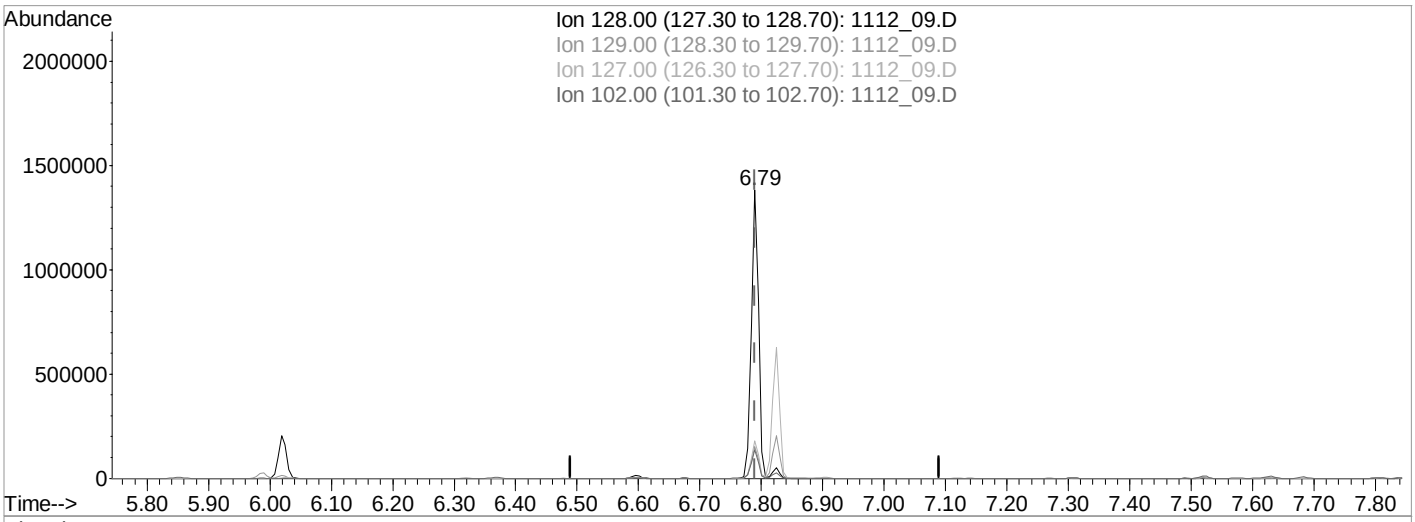
response 1148620

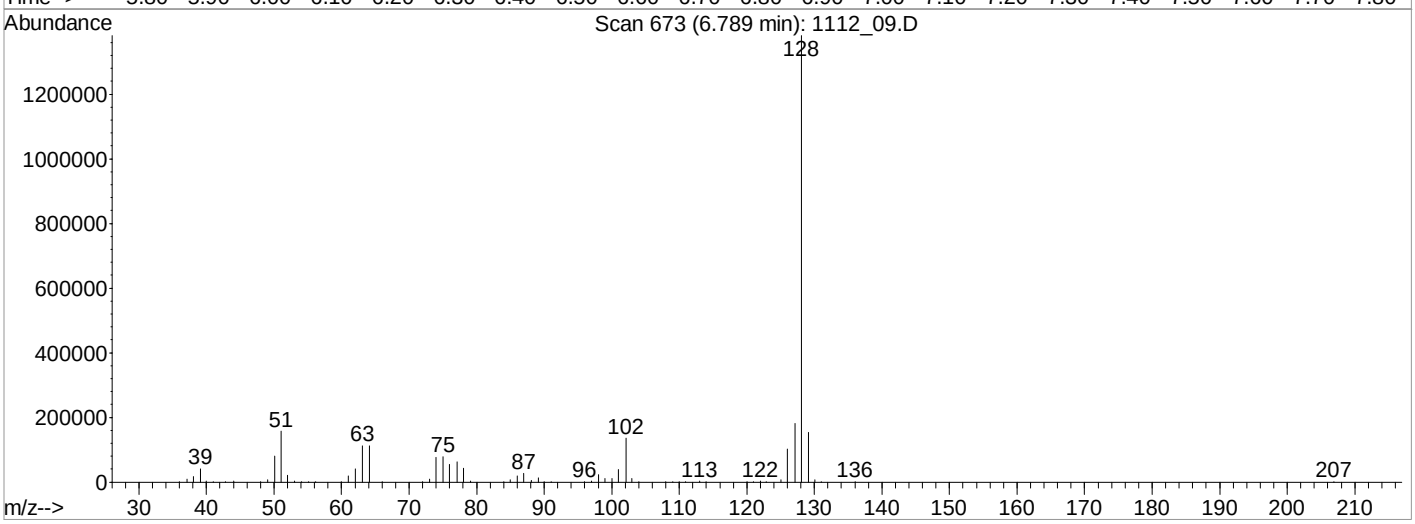
Ion	Exp%	Act%
128.00	100	100
129.00	10.50	11.07
127.00	12.90	13.06
102.00	8.80	9.78

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\111214\1112 09.D Vial: 7
Acq On : 12 Nov 2014 1:28 pm Operator: 280
Sample : STD SVMS 20K PPB 14K07412 Inst : BNAMS11
Misc : 8270 Primary Calibration Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Nov 12 20:05 2014 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\S811K12N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Wed Nov 12 19:36:25 2014
Response via : Multiple Level Calibration





TIC: 1112_09.D

(32) Naphthalene (MT)

6.79min (-0.000) 18542.4771405 ppb m

response 1184920

Ion	Exp%	Act%
128.00	100	100
129.00	10.50	11.07
127.00	12.90	13.06
102.00	8.80	9.80

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\111214\1112 10.D Vial: 8
Acq On : 12 Nov 2014 1:49 pm Operator: 280
Sample : STD SVMS 30K PPB 14K07412 Inst : BNAMS11
Misc : 8270 Primary Calibration Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Nov 12 20:07 2014 Quant Results File: S811K12N.RES

Quant Method : C:\MSDCHEM\1\METHODS\S811K12N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Wed Nov 12 19:47:02 2014
Response via : Initial Calibration
DataAcq Meth : BNA11A

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	5.49	152	95485	8000.00 ppb	0.00
22) Naphthalene-d8	6.77	136	424536	8000.00 ppb	0.00
40) Acenaphthene-d10	8.65	164	255317	8000.00 ppb	0.00
64) Phenanthrene-d10	10.28	188	472666	8000.00 ppb	0.00
78) Chrysene-d12	13.17	240	556369	8000.00 ppb	-0.01
88) Perylene-d12	14.67	264	725870	8000.00 ppb	-0.04

System Monitoring Compounds

4) 2-Fluorophenol	4.36	112	510377	30062.1636278 ppb	0.01
Spiked Amount 20.000	Range 10 - 74		Recovery = 150310.82%#		
7) Phenol-d5	5.10	99	694949	29899.9914150 ppb	0.01
Spiked Amount 20.000	Range 10 - 63		Recovery = 149499.96%#		
23) Nitrobenzene-d5	6.02	82	675040	29541.4447098 ppb	0.01
Spiked Amount 10.000	Range 28 - 123		Recovery = 295414.45%#		
44) 2-Fluorobiphenyl	7.91	172	1157455	27876.8396809 ppb	0.00
Spiked Amount 10.000	Range 35 - 133		Recovery = 278768.40%#		
67) 2,4,6-Tribromophenol	9.51	330	221495	31693.4974265 ppb	0.00
Spiked Amount 20.000	Range 22 - 154		Recovery = 158467.49%#		
81) p-Terphenyl-d14	11.98	244	1873302	28773.2166509 ppb	0.00
Spiked Amount 10.000	Range 30 - 148		Recovery = 287732.17%#		

Target Compounds

					Qvalue
2) Pyridine	3.47	79	780914	29851.2909875 ppb	98
3) N-Nitrosodimethylamine	3.44	42	451411	29721.3093780 ppb	98
5) Aniline	5.18	66	364178	29578.7621681 ppb	98
6) bis(2-Chloroethyl)ether	5.22	63	473079	29024.7784097 ppb	95
8) Phenol	5.11	94	704523	29698.1891555 ppb	98
9) Benzaldehyde	0.00	105	0	N.D. d	
10) 2-Chlorophenol	5.29	128	539456	29430.4310966 ppb	99
11) n-Decane	5.30	41	411754	28448.7756898 ppb	99
12) 1,3-Dichlorobenzene	5.44	146	580473	28904.0567791 ppb	98
13) 1,4-Dichlorobenzene	5.51	146	582462	28666.9600724 ppb	98
14) Benzyl Alcohol	5.60	79	528050	29552.0449800 ppb	100
15) 1,2-Dichlorobenzene	5.65	146	556953	28732.7258058 ppb	99
16) bis(2-Chloroisopropyl)ethe	5.72	121	173931	28751.2919044 ppb	96
17) 2-Methylphenol	5.68	108	502125	29124.7989481 ppb	97
18) Hexachloroethane	5.99	117	256192	29439.5921700 ppb	99
19) N-Nitrosodi-n-propylamine	5.86	70	469419	29167.2033871 ppb	100
20) 3&4-Methyl phenol	5.83	107	586873	29593.0138174 ppb	98
21) Acetophenone	0.00	105	0	N.D. d	
24) Nitrobenzene	6.04	77	671902	28851.2213518 ppb	100
25) Isophorone	6.28	82	1162880	28993.1484323 ppb	100
26) 2-Nitrophenol	6.36	139	298389	31889.8540285 ppb	99
27) 2,4-Dimethylphenol	6.37	107	566226	28229.6210172 ppb	98
28) bis(2-Chlorethoxy)methane	6.48	93	710387	28368.3687797 ppb	98
29) 2,4-Dichlorophenol	6.60	162	445785	29000.8310021 ppb	92
30) Benzoic Acid	0.00	105	0	N.D. d	
31) 1,2,4-Trichlorobenzene	6.70	180	486916	28257.8745036 ppb	98
32) Naphthalene	6.79	128	1689072m	27345.5434424 ppb	
33) 4-Chloroaniline	6.82	65	255922	28727.9798873 ppb	93
34) Hexachloro-1,3-butadiene	6.91	225	279924	28494.8683919 ppb	98
35) Caprolactam	0.00	113	0	N.D. d	
36) 4-Chloro-3-methylphenol	7.31	107	541964	29680.7964021 ppb	93
37) 2-Methylnaphthalene	7.52	142	1156666	28042.3364999 ppb	99
38) 1-Methylnaphthalene	7.63	142	1070655	28070.6359139 ppb	99

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\111214\1112 10.D Vial: 8
Acq On : 12 Nov 2014 1:49 pm Operator: 280
Sample : STD SVMS 30K PPB 14K07412 Inst : BNAMS11
Misc : 8270 Primary Calibration Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Nov 12 20:07 2014 Quant Results File: S811K12N.RES

Quant Method : C:\MSDCHEM\1\METHODS\S811K12N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Wed Nov 12 19:47:02 2014
Response via : Initial Calibration
DataAcq Meth : BNA11A

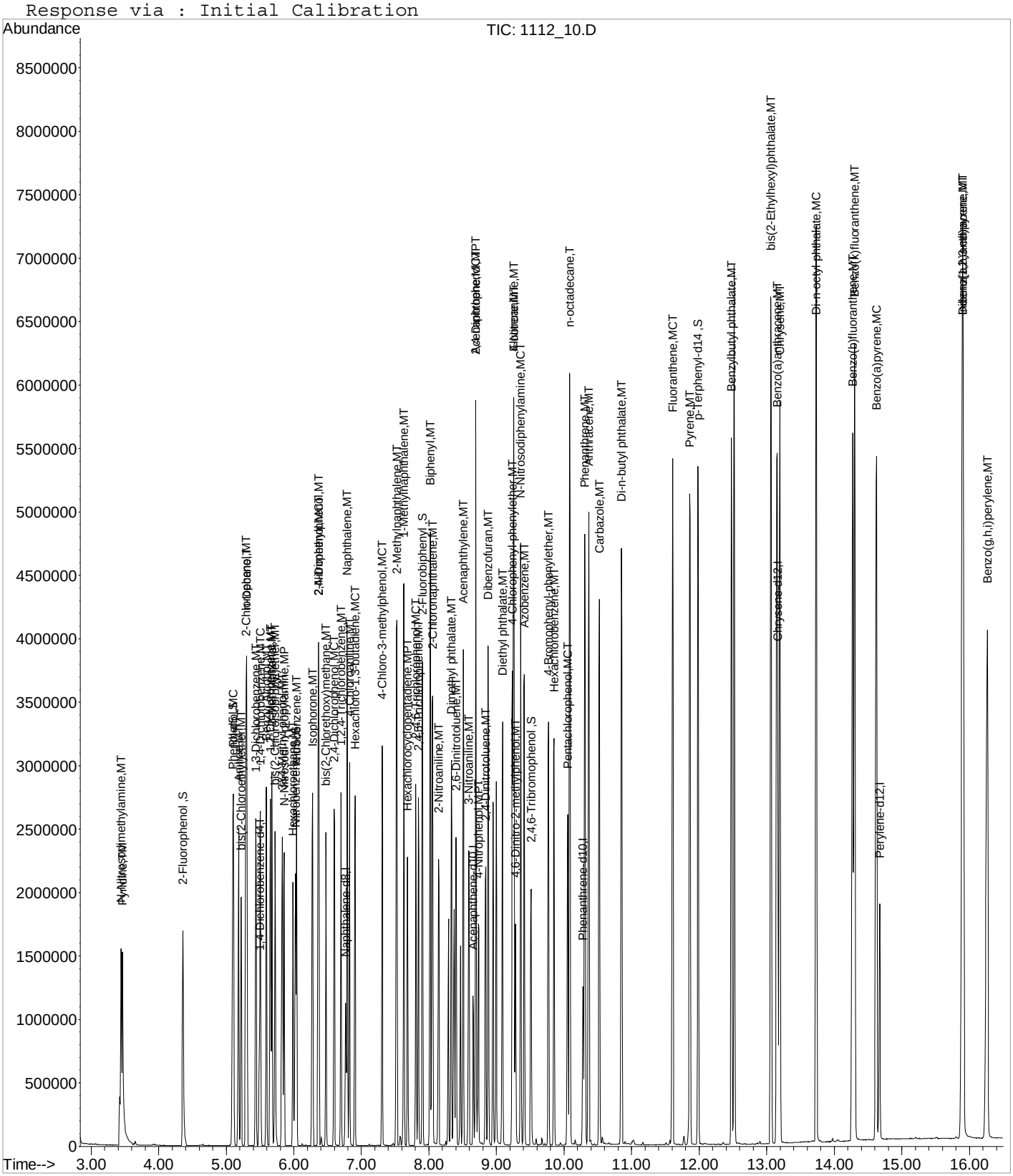
	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
39)	1,2,4,5-Tetrachlorobenzene	0.00	216	0	N.D.	d		
41)	Hexachlorocyclopentadiene	7.68	237	317702	30308.0429988	ppb		99
42)	2,4,6-Trichlorophenol	7.81	196	319148	30212.9065066	ppb		95
43)	2,4,5-Trichlorophenol	7.84	196	344439	29828.6765796	ppb		96
45)	Biphenyl	8.02	154	1318057	27797.2497692	ppb		100
46)	2-Chloronaphthalene	8.05	162	1025538	27790.4189100	ppb		99
47)	2-Nitroaniline	8.15	138	375390	31865.7984469	ppb		99
48)	Acenaphthylene	8.51	152	1624354	28343.8273284	ppb		99
49)	Dimethyl phthalate	8.33	163	1172625	29170.0920901	ppb		96
50)	2,6-Dinitrotoluene	8.40	165	280751	31368.8654441	ppb		98
51)	3-Nitroaniline	8.59	138	332744	31105.3928107	ppb		93
52)	Acenaphthene	8.70	153	1060176	27687.5970277	ppb		99
53)	2,4-Dinitrophenol	8.70	184	144350	39268.1204362	ppb	#	77
54)	Dibenzofuran	8.88	168	1436062	27732.0319842	ppb		100
55)	2,4-Dinitrotoluene	8.84	165	389439	33281.2819668	ppb		96
56)	2,3,4,6-Tetrachlorophenol	0.00	232	0	N.D.	d		
57)	4-Nitrophenol	8.74	139	273429	33516.1933314	ppb		94
58)	Fluorene	9.25	166	1212832	28101.3435665	ppb		98
59)	4-Chlorophenyl-phenylether	9.24	204	579109	28791.4593261	ppb		97
60)	Diethyl phthalate	9.09	149	1273485	29322.6060324	ppb		99
61)	4-Nitroaniline	9.26	138	299989	29960.4571770	ppb		99
62)	Azobenzene	9.41	77	1567907	29878.7793746	ppb		99
63)	Atrazine	0.00	200	0	N.D.	d		
65)	4,6-Dinitro-2-methylphenol	9.28	198	204542	36727.6615415	ppb		96
66)	N-Nitrosodiphenylamine	9.36	169	1066674	28417.3031459	ppb		100
68)	4-Bromophenyl-phenylether	9.77	248	381298	28831.4279894	ppb		99
69)	Hexachlorobenzene	9.85	284	458564	29086.3644155	ppb		98
70)	n-octadecane	10.08	55	276599	29358.5354179	ppb		99
71)	Pentachlorophenol	10.05	266	280499	32795.0878744	ppb		97
72)	Phenanthrene	10.31	178	1844354	27195.7245215	ppb		98
73)	Anthracene	10.37	178	1867535	27221.7416181	ppb		99
74)	Carbazole	10.52	167	1781824	26985.4129130	ppb		99
75)	Di-n-butyl phthalate	10.85	149	2483737	28366.7074870	ppb		98
76)	2-nitrodiphenylamine	0.00	167	0	N.D.	d		
77)	Fluoranthene	11.61	202	2257004	27490.2970146	ppb		99
79)	Benzidine	0.00	184	0	N.D.			
80)	Pyrene	11.87	202	2348721	28513.2174071	ppb		99
82)	Benzylbutyl phthalate	12.48	149	1299589	30881.6999186	ppb		94
83)	3,3-Dichlorobenzidine	0.00	252	0	N.D.			
84)	Benzo(a)anthracene	13.15	228	2440271	27788.5498889	ppb		98
85)	Chrysene	13.19	228	2183896	27463.6334088	ppb		98
86)	bis(2-Ethylhexyl)phthalate	13.06	149	1858293	29513.5991117	ppb		99
87)	Di-n-octyl phthalate	13.73	149	3191372	29768.8918975	ppb		98
89)	Benzo(b)fluoranthene	14.27	252	2847107	27572.5577329	ppb		97
90)	Benzo(k)fluoranthene	14.30	252	2661768	26318.1630093	ppb		95
91)	Benzo(a)pyrene	14.62	252	2778286	28134.3554663	ppb		98
92)	Indeno(1,2,3-cd)pyrene	15.90	276	3390297	27999.0493196	ppb		97
93)	Dibenz(a,h)anthracene	15.90	278	2815988	27933.8684470	ppb		96
94)	Benzo(g,h,i)perylene	16.27	276	2980001	29059.9162334	ppb		99

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\111214\1112 10.D Vial: 8
Acq On : 12 Nov 2014 1:49 pm Operator: 280
Sample : STD SVMS 30K PPB 14K07412 Inst : BNAMS11
Misc : 8270 Primary Calibration Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Nov 12 20:07 2014 Quant Results File: S811K12N.RES

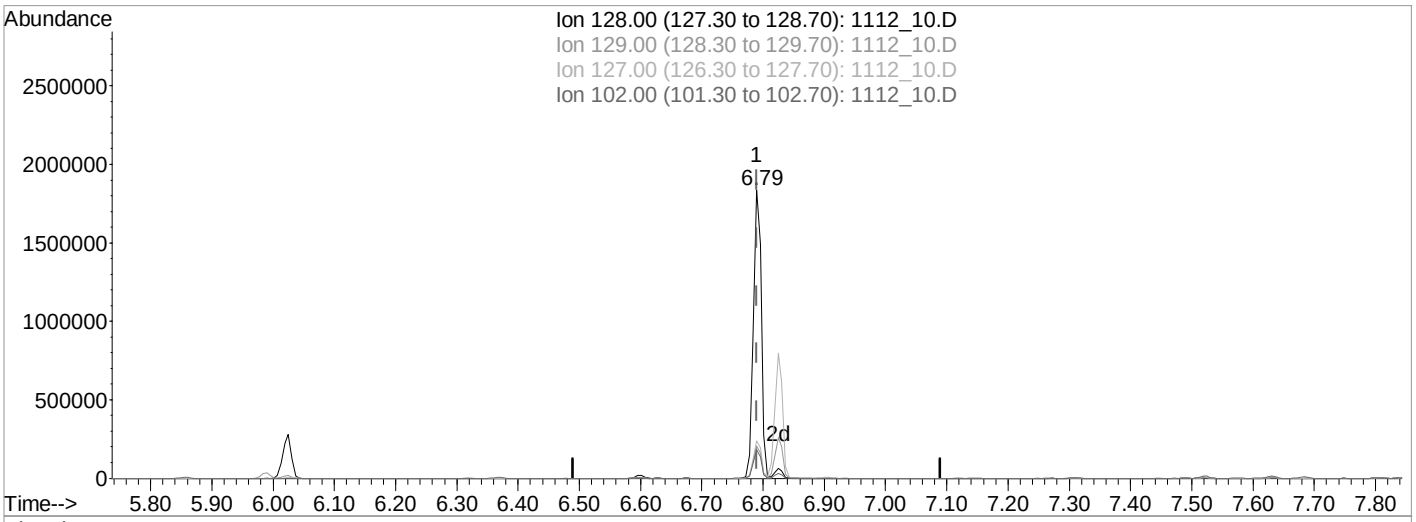
Method : C:\MSDCHEM\1\METHODS\S811K12N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Wed Nov 12 20:06:11 2014
Response via : Initial Calibration

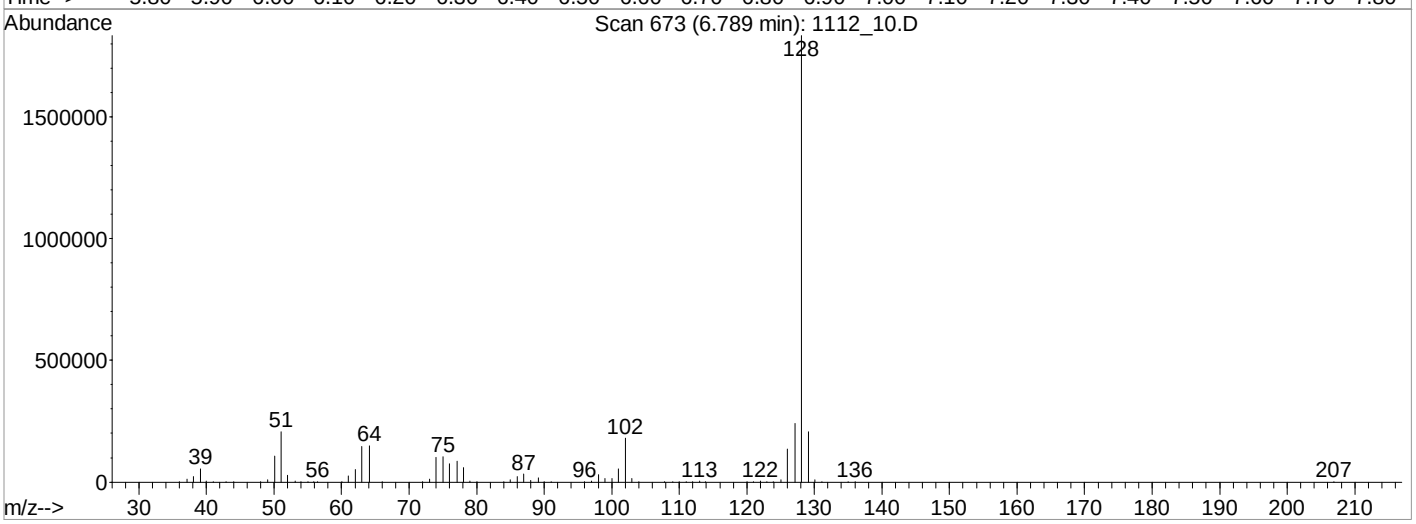


Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\111214\1112 10.D Vial: 8
Acq On : 12 Nov 2014 1:49 pm Operator: 280
Sample : STD SVMS 30K PPB 14K07412 Inst : BNAMS11
Misc : 8270 Primary Calibration Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Nov 12 20:06 2014 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\S811K12N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Wed Nov 12 20:06:11 2014
Response via : Multiple Level Calibration





TIC: 1112_10.D

(32) Naphthalene (MT)

6.79min (-0.000) 26485.1750181 ppb

Qvalue = 98

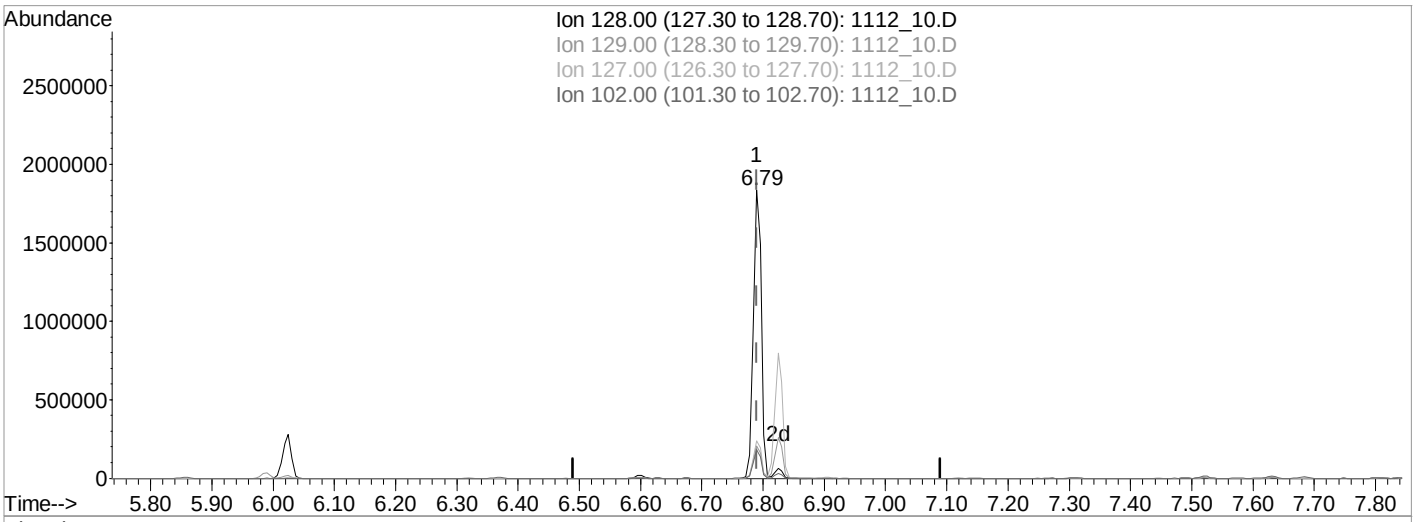
response 1635929

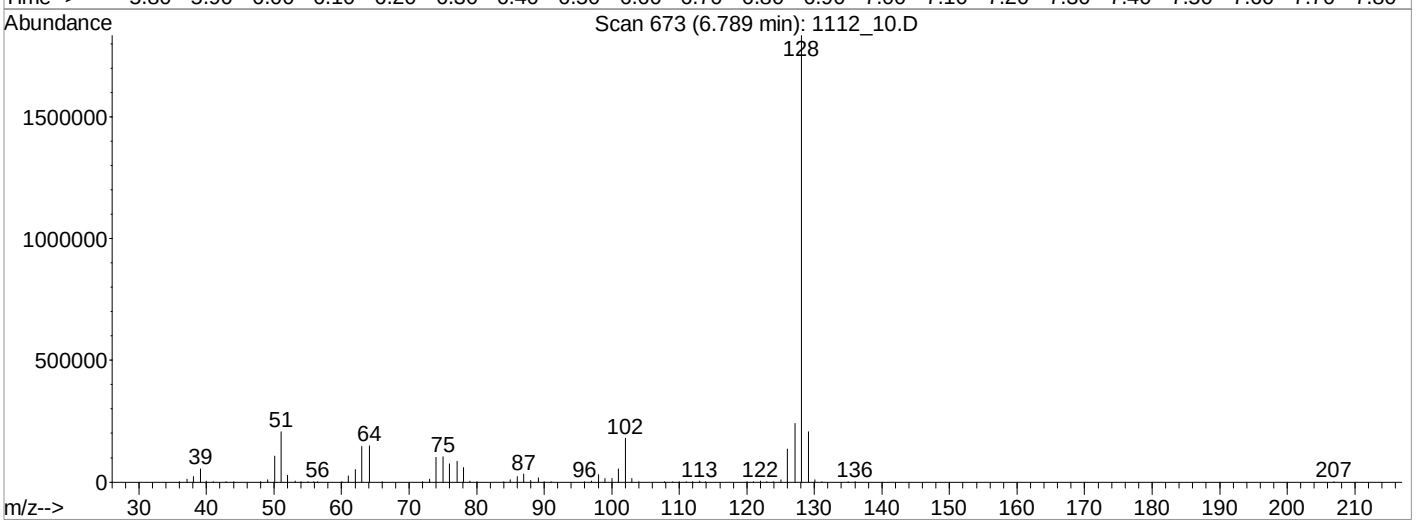
Ion	Exp%	Act%
128.00	100	100
129.00	10.50	11.30
127.00	12.90	13.05
102.00	8.80	9.86

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\111214\1112 10.D Vial: 8
Acq On : 12 Nov 2014 1:49 pm Operator: 280
Sample : STD SVMS 30K PPB 14K07412 Inst : BNAMS11
Misc : 8270 Primary Calibration Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Nov 12 20:06 2014 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\S811K12N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Wed Nov 12 20:06:11 2014
Response via : Multiple Level Calibration





TIC: 1112_10.D

(32) Naphthalene (MT)

6.79min (-0.000) 27345.5434424 ppb m

response 1689072

Ion	Exp%	Act%
128.00	100	100
129.00	10.50	11.30
127.00	12.90	13.05
102.00	8.80	9.87

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\111214\1112 11.D Vial: 9
Acq On : 12 Nov 2014 2:10 pm Operator: 280
Sample : STD SVMS 40K PPB 14K07412 Inst : BNAMS11
Misc : 8270 Primary Calibration Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Nov 12 20:14 2014 Quant Results File: S811K12N.RES

Quant Method : C:\MSDCHEM\1\METHODS\S811K12N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Wed Nov 12 19:47:02 2014
Response via : Initial Calibration
DataAcq Meth : BNA11A

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	5.49	152	103446	8000.00 ppb	0.00
22) Naphthalene-d8	6.77	136	453139	8000.00 ppb	0.00
40) Acenaphthene-d10	8.66	164	273088	8000.00 ppb	0.00
64) Phenanthrene-d10	10.28	188	506612	8000.00 ppb	0.00
78) Chrysene-d12	13.17	240	589954	8000.00 ppb	-0.01
88) Perylene-d12	14.67	264	788686	8000.00 ppb	-0.04

System Monitoring Compounds					
4) 2-Fluorophenol	4.36	112	705361	38349.7055013 ppb	0.01
Spiked Amount 20.000	Range 10 - 74		Recovery = 191748.53%#		
7) Phenol-d5	5.10	99	958145	38051.4155078 ppb	0.02
Spiked Amount 20.000	Range 10 - 63		Recovery = 190257.08%#		
23) Nitrobenzene-d5	6.02	82	936204	38384.4919290 ppb	0.01
Spiked Amount 10.000	Range 28 - 123		Recovery = 383844.92%#		
44) 2-Fluorobiphenyl	7.91	172	1596593	35950.9821070 ppb	0.00
Spiked Amount 10.000	Range 35 - 133		Recovery = 359509.82%#		
67) 2,4,6-Tribromophenol	9.51	330	320680	42811.1610171 ppb	0.00
Spiked Amount 20.000	Range 22 - 154		Recovery = 214055.81%#		
81) p-Terphenyl-d14	11.98	244	2526231	36593.0368399 ppb	0.00
Spiked Amount 10.000	Range 30 - 148		Recovery = 365930.37%#		

Target Compounds					Qvalue
2) Pyridine	3.47	79	1088352	38401.7255083 ppb	99
3) N-Nitrosodimethylamine	3.44	42	628275	38182.7346782 ppb	99
5) Aniline	5.19	66	494767	37092.7014830 ppb	97
6) bis(2-Chloroethyl)ether	5.22	63	640684	36282.7813163 ppb	93
8) Phenol	5.11	94	951089	37006.4480179 ppb	100
9) Benzaldehyde	0.00	105	0	N.D. d	
10) 2-Chlorophenol	5.29	128	739602	37244.3263065 ppb	99
11) n-Decane	5.30	41	540693	34482.4370031 ppb	99
12) 1,3-Dichlorobenzene	5.44	146	801250	36826.9939572 ppb	98
13) 1,4-Dichlorobenzene	5.51	146	807016	36662.1255058 ppb	99
14) Benzyl Alcohol	5.60	79	745255	38498.0596254 ppb	99
15) 1,2-Dichlorobenzene	5.65	146	779910	37138.4881180 ppb	99
16) bis(2-Chloroisopropyl)ethe	5.72	121	242001	36924.8704978 ppb	94
17) 2-Methylphenol	5.68	108	690984	36994.7871333 ppb	96
18) Hexachloroethane	5.99	117	355504	37707.8844080 ppb	99
19) N-Nitrosodi-n-propylamine	5.87	70	655215	37578.4971418 ppb	95
20) 3&4-Methyl phenol	5.84	107	826984	38491.3926659 ppb	99
21) Acetophenone	0.00	105	0	N.D. d	
24) Nitrobenzene	6.04	77	922214	37099.9275553 ppb	99
25) Isophorone	6.28	82	1594522	37245.5228352 ppb	100
26) 2-Nitrophenol	6.36	139	419465	41999.9267899 ppb	97
27) 2,4-Dimethylphenol	6.37	107	778566	36365.8511029 ppb	99
28) bis(2-Chlorethoxy)methane	6.48	93	976924	36549.6497406 ppb	97
29) 2,4-Dichlorophenol	6.60	162	637091	38830.1924694 ppb	95
30) Benzoic Acid	0.00	105	0	N.D. d	
31) 1,2,4-Trichlorobenzene	6.70	180	680061	36975.6994329 ppb	98
32) Naphthalene	6.80	128	2304216m	34949.7976524 ppb	
33) 4-Chloroaniline	6.82	65	354225	37252.8717882 ppb	96
34) Hexachloro-1,3-butadiene	6.91	225	393060	37485.9439602 ppb	98
35) Caprolactam	0.00	113	0	N.D. d	
36) 4-Chloro-3-methylphenol	7.31	107	753181	38644.4871322 ppb	98
37) 2-Methylnaphthalene	7.52	142	1600600	36355.6673433 ppb	99
38) 1-Methylnaphthalene	7.63	142	1473427	36192.1520149 ppb	99

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\111214\1112 11.D Vial: 9
Acq On : 12 Nov 2014 2:10 pm Operator: 280
Sample : STD SVMS 40K PPB 14K07412 Inst : BNAMS11
Misc : 8270 Primary Calibration Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Nov 12 20:14 2014 Quant Results File: S811K12N.RES

Quant Method : C:\MSDCHEM\1\METHODS\S811K12N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Wed Nov 12 19:47:02 2014
Response via : Initial Calibration
DataAcq Meth : BNA11A

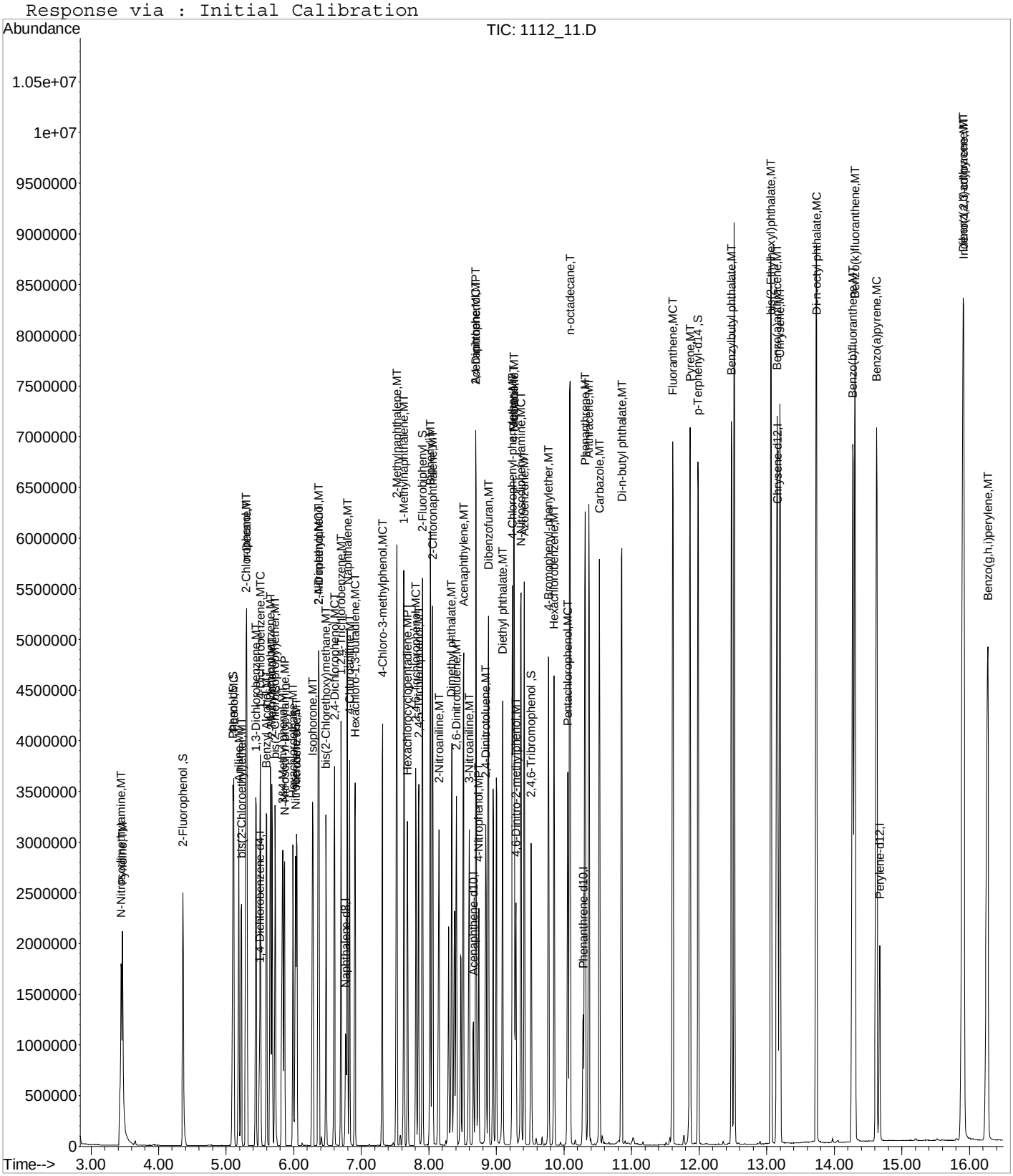
	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
39)	1,2,4,5-Tetrachlorobenzene	0.00	216	0	N.D.	d		
41)	Hexachlorocyclopentadiene	7.68	237	467946	41735.9978302	ppb		99
42)	2,4,6-Trichlorophenol	7.81	196	464413	41103.7895802	ppb		96
43)	2,4,5-Trichlorophenol	7.85	196	478158	38714.1927358	ppb		98
45)	Biphenyl	8.02	154	1839272	36265.2531045	ppb		100
46)	2-Chloronaphthalene	8.05	162	1423564	36065.9560237	ppb		98
47)	2-Nitroaniline	8.15	138	539820	42841.8476413	ppb		99
48)	Acenaphthylene	8.51	152	2236352	36483.3819158	ppb		99
49)	Dimethyl phthalate	8.34	163	1662013	38653.6209591	ppb		96
50)	2,6-Dinitrotoluene	8.41	165	402136	42007.5709098	ppb		96
51)	3-Nitroaniline	8.60	138	469897	41068.1600003	ppb		94
52)	Acenaphthene	8.70	153	1458712	35616.7238095	ppb		100
53)	2,4-Dinitrophenol	8.70	184	217785	55389.6226347	ppb	#	23
54)	Dibenzofuran	8.88	168	1994212	36004.5131857	ppb		99
55)	2,4-Dinitrotoluene	8.84	165	557812	44568.2492234	ppb		88
56)	2,3,4,6-Tetrachlorophenol	0.00	232	0	N.D.	d		
57)	4-Nitrophenol	8.74	139	389311	44615.3088355	ppb		90
58)	Fluorene	9.25	166	1664753	36062.2948328	ppb		99
59)	4-Chlorophenyl-phenylether	9.24	204	818814	38059.7331727	ppb		94
60)	Diethyl phthalate	9.09	149	1784474	38414.5784778	ppb		98
61)	4-Nitroaniline	9.27	138	441435	41218.0067299	ppb		99
62)	Azobenzene	9.41	77	2164597	38565.3005735	ppb		99
63)	Atrazine	0.00	200	0	N.D.	d		
65)	4,6-Dinitro-2-methylphenol	9.29	198	307188	51462.8598554	ppb		97
66)	N-Nitrosodiphenylamine	9.37	169	1485317	36918.9374744	ppb		100
68)	4-Bromophenyl-phenylether	9.77	248	547169	38601.3062351	ppb		97
69)	Hexachlorobenzene	9.85	284	649399	38430.8500269	ppb		99
70)	n-octadecane	10.09	55	370060	36646.6952247	ppb		100
71)	Pentachlorophenol	10.05	266	410636	44793.3345075	ppb		99
72)	Phenanthrene	10.31	178	2545994	35026.1673397	ppb		99
73)	Anthracene	10.37	178	2577582	35054.0772107	ppb		99
74)	Carbazole	10.52	167	2465570	34838.5837222	ppb		99
75)	Di-n-butyl phthalate	10.85	149	3294939	35109.9000476	ppb		98
76)	2-nitrodiphenylamine	0.00	167	0	N.D.	d		
77)	Fluoranthene	11.61	202	3051252	34674.0101069	ppb		99
79)	Benzidine	0.00	184	0	N.D.			
80)	Pyrene	11.87	202	3168160	36271.5967719	ppb		98
82)	Benzylbutyl phthalate	12.48	149	1780183	39893.7254892	ppb		92
83)	3,3-Dichlorobenzidine	0.00	252	0	N.D.			
84)	Benzo(a)anthracene	13.15	228	3287283	35302.8439478	ppb		98
85)	Chrysene	13.20	228	2943713	34911.3208208	ppb		97
86)	bis(2-Ethylhexyl)phthalate	13.07	149	2488664	37275.1175890	ppb		97
87)	Di-n-octyl phthalate	13.74	149	4204105	36983.1216957	ppb		98
89)	Benzo(b)fluoranthene	14.28	252	4133449m	36841.7766147	ppb		
90)	Benzo(k)fluoranthene	14.31	252	3319401	30206.4584283	ppb		95
91)	Benzo(a)pyrene	14.62	252	3833004	35723.5004846	ppb		97
92)	Indeno(1,2,3-cd)pyrene	15.92	276	4611273	35049.4405610	ppb		98
93)	Dibenz(a,h)anthracene	15.91	278	3807175	34758.2449543	ppb		96
94)	Benzo(g,h,i)perylene	16.27	276	3978185	35704.0629544	ppb		98

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\111214\1112 11.D Vial: 9
Acq On : 12 Nov 2014 2:10 pm Operator: 280
Sample : STD SVMS 40K PPB 14K07412 Inst : BNAMS11
Misc : 8270 Primary Calibration Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Nov 12 20:14 2014 Quant Results File: S811K12N.RES

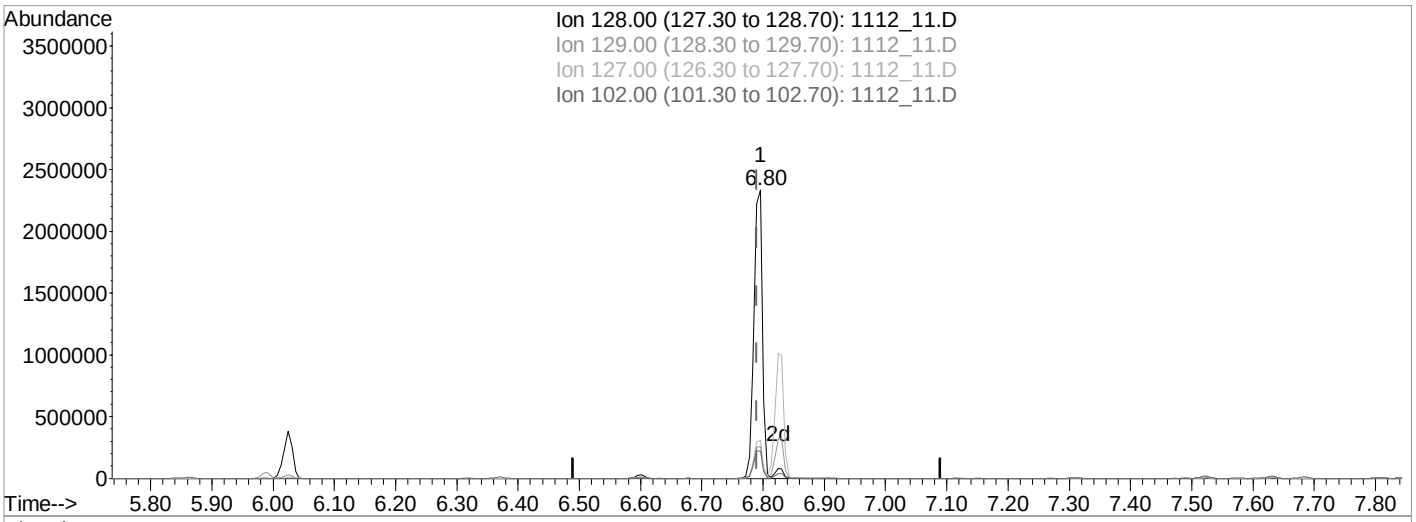
Method : C:\MSDCHEM\1\METHODS\S811K12N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Wed Nov 12 20:07:32 2014
Response via : Initial Calibration

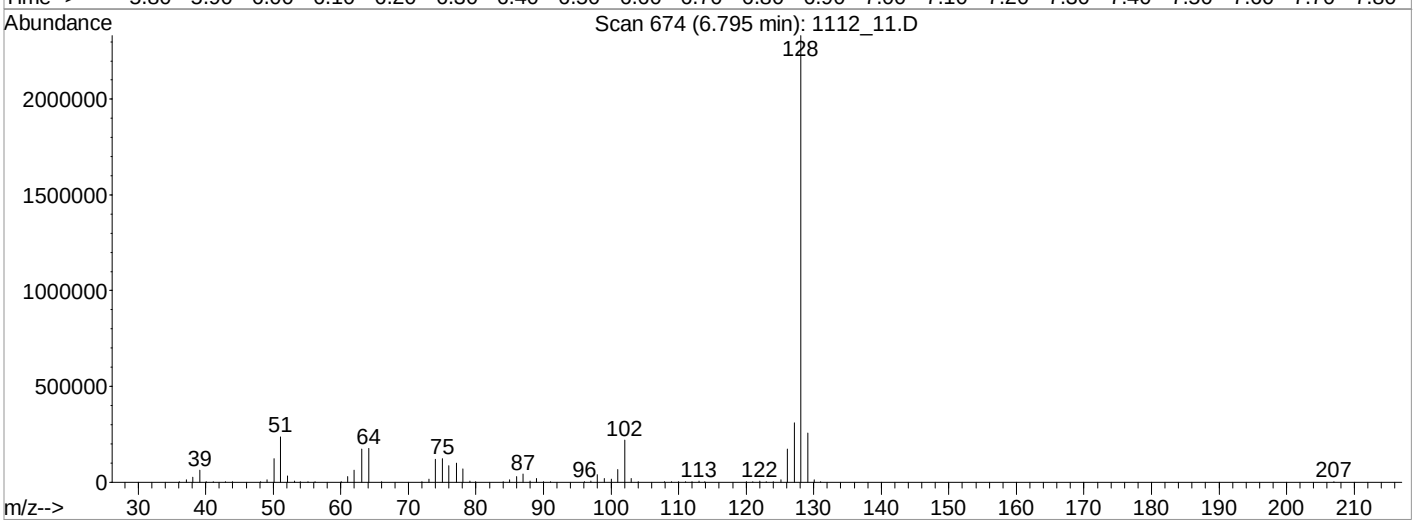


Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\111214\1112 11.D Vial: 9
Acq On : 12 Nov 2014 2:10 pm Operator: 280
Sample : STD SVMS 40K PPB 14K07412 Inst : BNAMS11
Misc : 8270 Primary Calibration Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Nov 12 20:11 2014 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\S811K12N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Wed Nov 12 20:07:32 2014
Response via : Multiple Level Calibration





TIC: 1112_11.D

(32) Naphthalene (MT)

6.80min (+0.006) 33813.6716801 ppb

Qvalue = 99

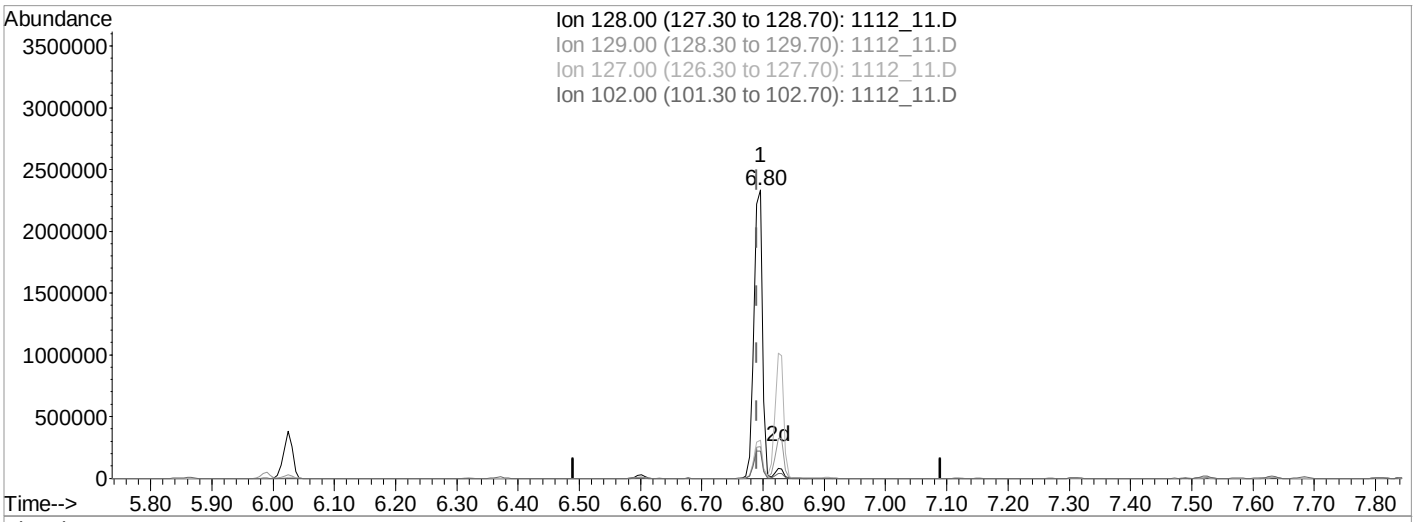
response 2229312

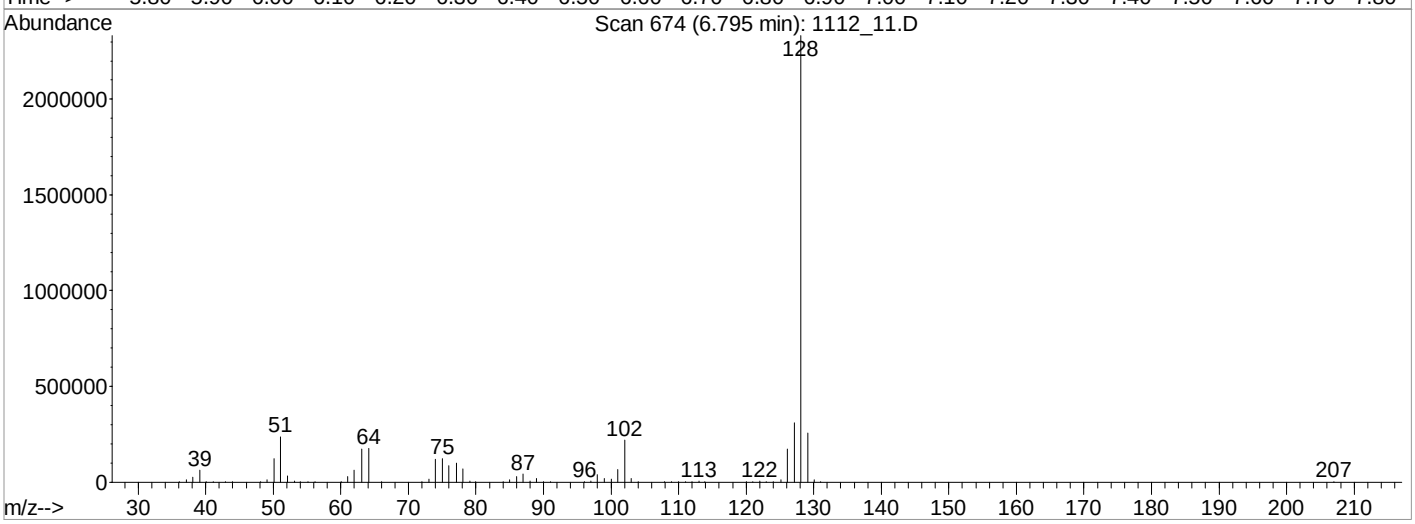
Ion	Exp%	Act%
128.00	100	100
129.00	10.50	10.95
127.00	12.90	13.24
102.00	8.80	9.44

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\111214\1112 11.D Vial: 9
Acq On : 12 Nov 2014 2:10 pm Operator: 280
Sample : STD SVMS 40K PPB 14K07412 Inst : BNAMS11
Misc : 8270 Primary Calibration Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Nov 12 20:11 2014 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\S811K12N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Wed Nov 12 20:07:32 2014
Response via : Multiple Level Calibration





TIC: 1112_11.D

(32) Naphthalene (MT)

6.80min (+0.006) 34949.7976524 ppb m

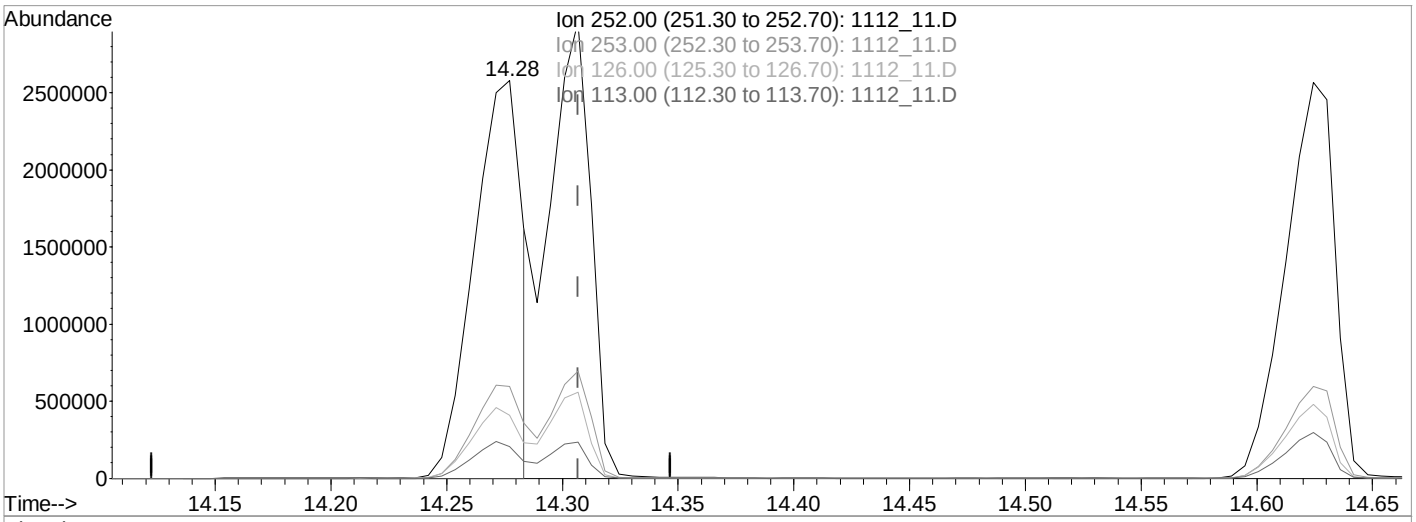
response 2304216

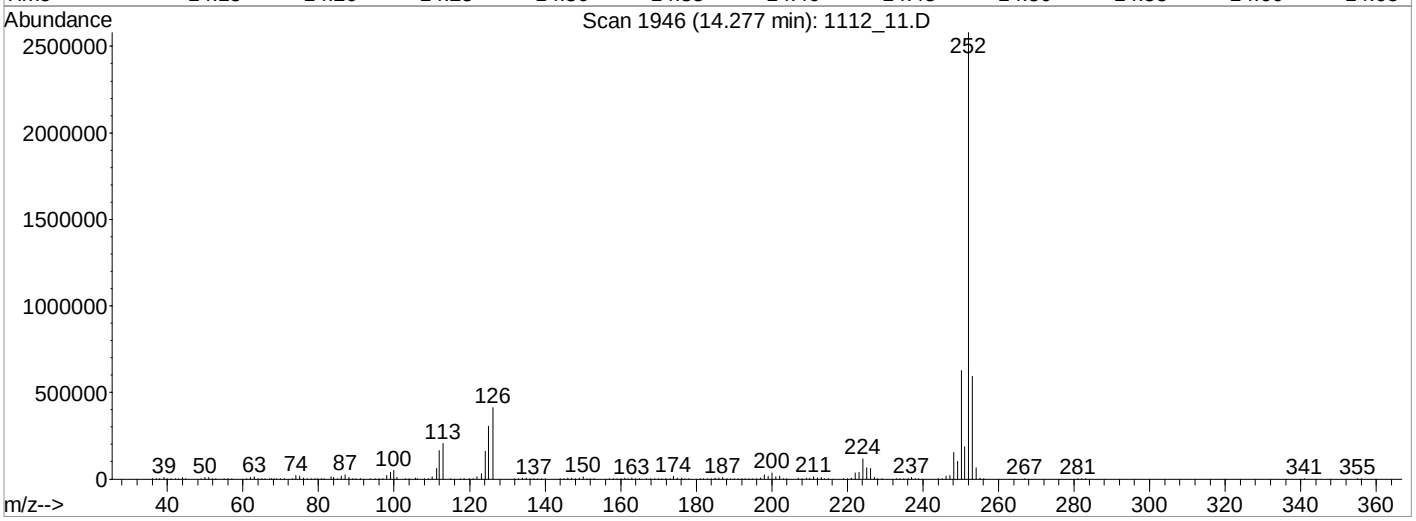
Ion	Exp%	Act%
128.00	100	100
129.00	10.50	10.95
127.00	12.90	13.24
102.00	8.80	9.44

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\111214\1112 11.D Vial: 9
Acq On : 12 Nov 2014 2:10 pm Operator: 280
Sample : STD SVMS 40K PPB 14K07412 Inst : BNAMS11
Misc : 8270 Primary Calibration Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Nov 12 20:13 2014 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\S811K12N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Wed Nov 12 20:07:32 2014
Response via : Multiple Level Calibration





TIC: 1112_11.D

(89) Benzo(b)fluoranthene (MT)

14.28min (-0.029) 33277.9336040 ppb

Qvalue = 98

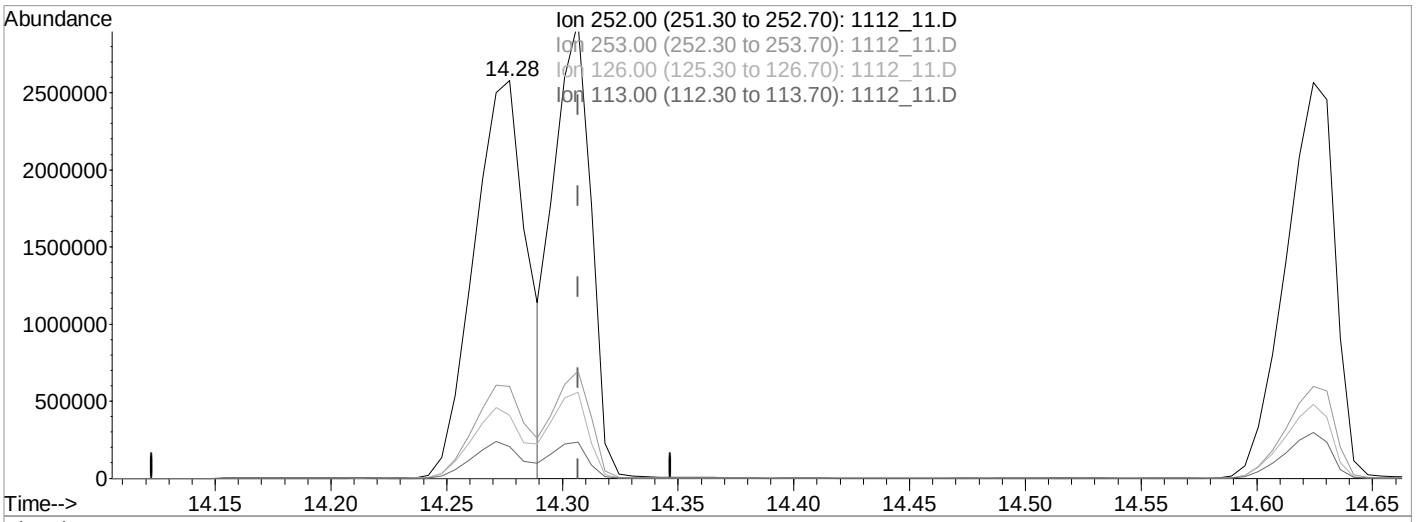
response 3733605

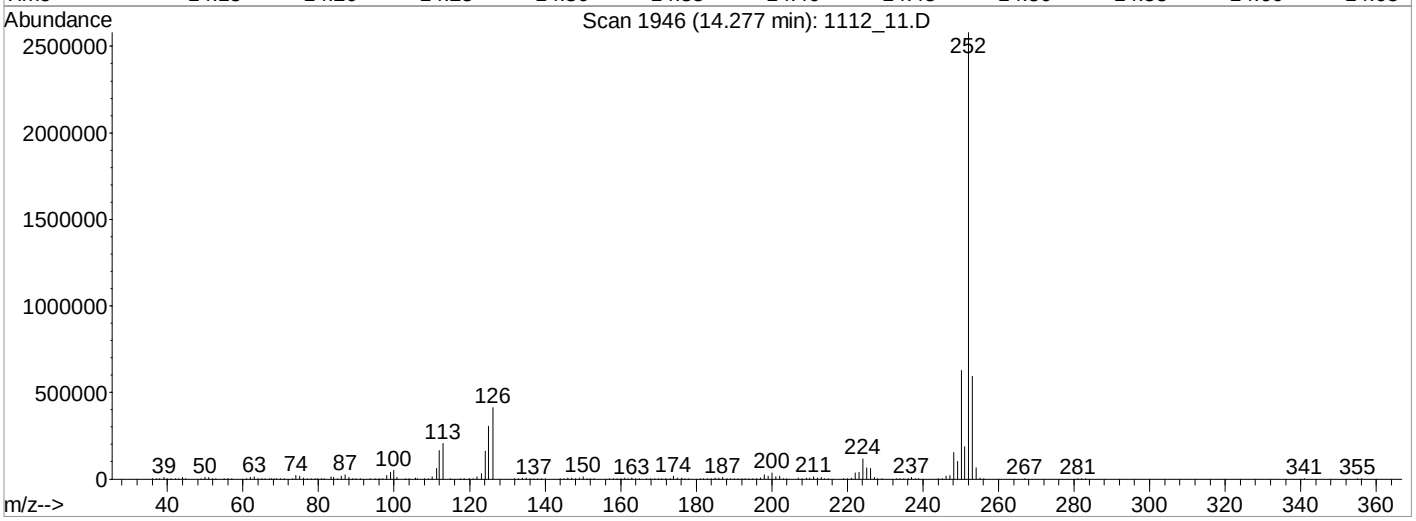
Ion	Exp%	Act%
252.00	100	100
253.00	22.30	23.39
126.00	15.50	16.67
113.00	7.80	8.61

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\111214\1112 11.D Vial: 9
Acq On : 12 Nov 2014 2:10 pm Operator: 280
Sample : STD SVMS 40K PPB 14K07412 Inst : BNAMS11
Misc : 8270 Primary Calibration Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Nov 12 20:14 2014 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\S811K12N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Wed Nov 12 20:07:32 2014
Response via : Multiple Level Calibration





TIC: 1112_11.D

(89) Benzo(b)fluoranthene (MT)

14.28min (-0.029) 36841.7766147 ppb m

response 4133449

Ion	Exp%	Act%
252.00	100	100
253.00	22.30	23.04
126.00	15.50	15.92
113.00	7.80	8.02

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\111214\1112 12.D Vial: 10
Acq On : 12 Nov 2014 2:31 pm Operator: 280
Sample : STD SVMS 50K PPB 14K07412 Inst : BNAMS11
Misc : 8270 Primary Calibration Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Nov 12 20:22 2014 Quant Results File: S811K12N.RES

Quant Method : C:\MSDCHEM\1\METHODS\S811K12N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Wed Nov 12 19:47:02 2014
Response via : Initial Calibration
DataAcq Meth : BNA11A

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	5.49	152	96878	8000.00 ppb	0.00
22) Naphthalene-d8	6.77	136	427388	8000.00 ppb	0.00
40) Acenaphthene-d10	8.66	164	258595	8000.00 ppb	0.00
64) Phenanthrene-d10	10.28	188	471522	8000.00 ppb	0.00
78) Chrysene-d12	13.17	240	543075	8000.00 ppb	-0.01
88) Perylene-d12	14.68	264	743076	8000.00 ppb	-0.04

System Monitoring Compounds					
4) 2-Fluorophenol	4.36	112	842043	48884.7498758 ppb	0.01
Spiked Amount 20.000	Range 10 - 74		Recovery = 244423.75%#		
7) Phenol-d5	5.10	99	1130775	47951.7338962 ppb	0.02
Spiked Amount 20.000	Range 10 - 63		Recovery = 239758.67%#		
23) Nitrobenzene-d5	6.02	82	1105024	48035.9221754 ppb	0.01
Spiked Amount 10.000	Range 28 - 123		Recovery = 480359.22%#		
44) 2-Fluorobiphenyl	7.91	172	1856347	44142.6287100 ppb	0.00
Spiked Amount 10.000	Range 35 - 133		Recovery = 441426.29%#		
67) 2,4,6-Tribromophenol	9.52	330	381773	54760.0522189 ppb	0.00
Spiked Amount 20.000	Range 22 - 154		Recovery = 273800.26%#		
81) p-Terphenyl-d14	11.99	244	2880345	45324.0011009 ppb	0.00
Spiked Amount 10.000	Range 30 - 148		Recovery = 453240.01%#		

Target Compounds					Qvalue
2) Pyridine	3.47	79	1287312	48501.3374638 ppb	99
3) N-Nitrosodimethylamine	3.44	42	750737	48718.4664520 ppb	99
5) Aniline	5.19	66	587568	47036.4365234 ppb	98
6) bis(2-Chloroethyl)ether	5.22	63	749002	45292.6997196 ppb	99
8) Phenol	5.11	94	1105377	45925.6387279 ppb	98
9) Benzaldehyde	0.00	105	0	N.D. d	
10) 2-Chlorophenol	5.29	128	848596	45630.1150922 ppb	99
11) n-Decane	5.30	41	614256	41829.7384928 ppb	99
12) 1,3-Dichlorobenzene	5.44	146	939596	46113.4828842 ppb	97
13) 1,4-Dichlorobenzene	5.51	146	946401	45909.1469333 ppb	98
14) Benzyl Alcohol	5.60	79	861123	47499.3502901 ppb	100
15) 1,2-Dichlorobenzene	5.65	146	900739	45800.1853947 ppb	99
16) bis(2-Chloroisopropyl)ethe	5.72	121	285766	46558.7073277 ppb	96
17) 2-Methylphenol	5.68	108	817291	46723.7612205 ppb	97
18) Hexachloroethane	5.99	117	417732	47312.2888450 ppb	99
19) N-Nitrosodi-n-propylamine	5.87	70	763744	46772.6445189 ppb	98
20) 3&4-Methyl phenol	5.84	107	966220	48020.9865632 ppb	97
21) Acetophenone	0.00	105	0	N.D. d	
24) Nitrobenzene	6.05	77	1074549	45832.8319801 ppb	97
25) Isophorone	6.28	82	1849868	45813.4942308 ppb	97
26) 2-Nitrophenol	6.36	139	496746	52734.6782479 ppb	97
27) 2,4-Dimethylphenol	6.37	107	900257	44583.4781683 ppb	99
28) bis(2-Chlorethoxy)methane	6.48	93	1135053	45024.3756425 ppb	95
29) 2,4-Dichlorophenol	6.60	162	740551	47855.5336793 ppb	94
30) Benzoic Acid	0.00	105	0	N.D. d	
31) 1,2,4-Trichlorobenzene	6.70	180	792812	45703.3317393 ppb	98
32) Naphthalene	6.80	128	2680840m	43112.3295557 ppb	
33) 4-Chloroaniline	6.83	65	415898	46374.2072394 ppb	93
34) Hexachloro-1,3-butadiene	6.91	225	449308	45432.1062094 ppb	98
35) Caprolactam	0.00	113	0	N.D. d	
36) 4-Chloro-3-methylphenol	7.31	107	878407	47785.1658824 ppb	97
37) 2-Methylnaphthalene	7.52	142	1839325	44295.2237720 ppb	99
38) 1-Methylnaphthalene	7.63	142	1706792	44450.3822388 ppb	99

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\111214\1112 12.D Vial: 10
Acq On : 12 Nov 2014 2:31 pm Operator: 280
Sample : STD SVMS 50K PPB 14K07412 Inst : BNAMS11
Misc : 8270 Primary Calibration Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Nov 12 20:22 2014 Quant Results File: S811K12N.RES

Quant Method : C:\MSDCHEM\1\METHODS\S811K12N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Wed Nov 12 19:47:02 2014
Response via : Initial Calibration
DataAcq Meth : BNA11A

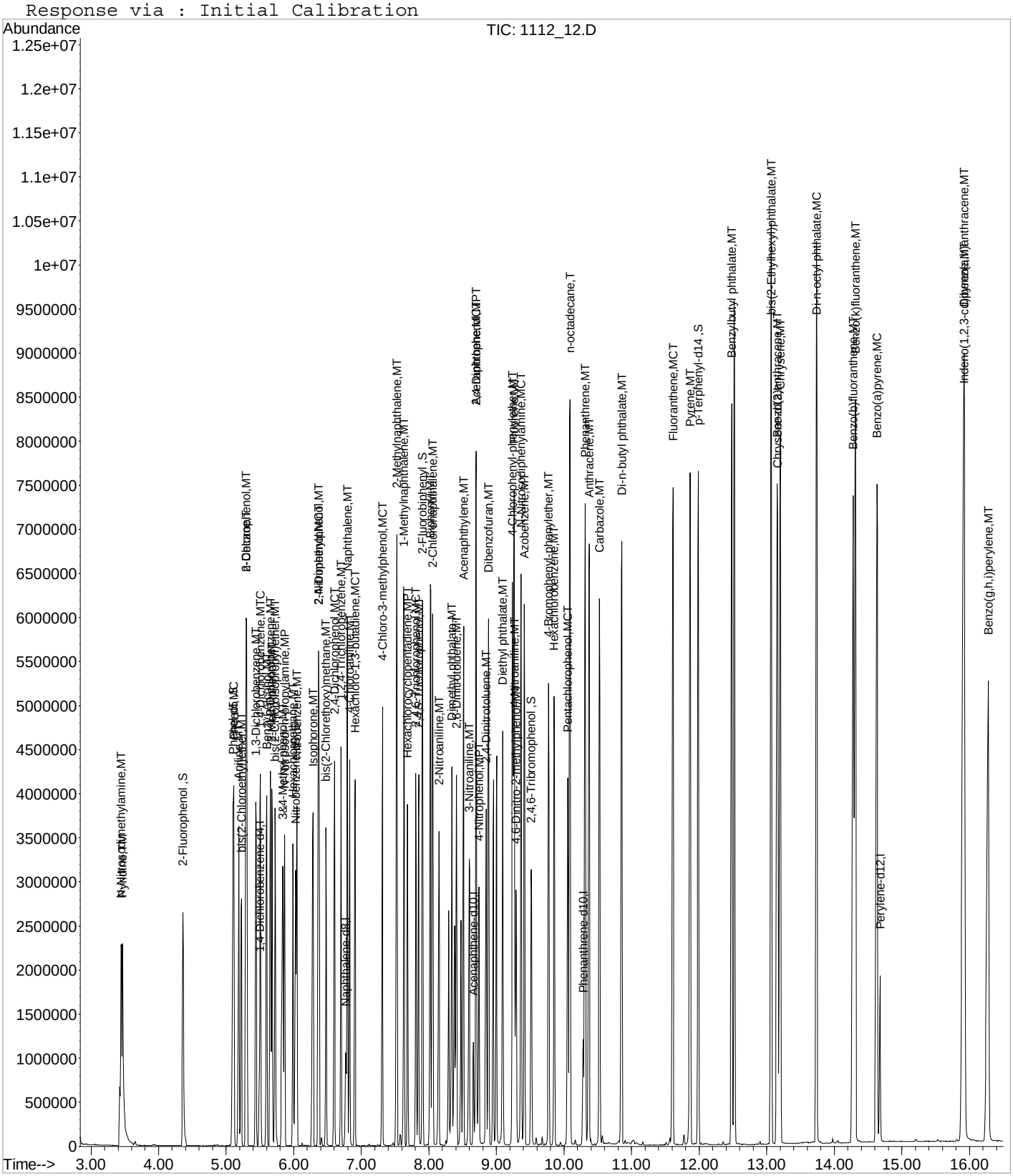
	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
39)	1,2,4,5-Tetrachlorobenzene	0.00	216	0	N.D.	d		
41)	Hexachlorocyclopentadiene	7.68	237	540805	50937.5735858	ppb		99
42)	2,4,6-Trichlorophenol	7.81	196	534148	49925.4048794	ppb		96
43)	2,4,5-Trichlorophenol	7.85	196	554956	47450.3943548	ppb		99
45)	Biphenyl	8.02	154	2090227	43523.1880963	ppb		100
46)	2-Chloronaphthalene	8.05	162	1637506	43811.2702777	ppb		97
47)	2-Nitroaniline	8.15	138	635671	53276.3071226	ppb		99
48)	Acenaphthylene	8.51	152	2566015	44207.5667648	ppb		99
49)	Dimethyl phthalate	8.34	163	1921196	47185.6491668	ppb		99
50)	2,6-Dinitrotoluene	8.41	165	470714	51927.1185503	ppb		99
51)	3-Nitroaniline	8.60	138	550674	50825.2634245	ppb		96
52)	Acenaphthene	8.70	153	1678420	43278.0368359	ppb		99
53)	2,4-Dinitrophenol	8.70	184	258544	69441.2290789	ppb	#	50
54)	Dibenzofuran	8.88	168	2329747	44419.8279992	ppb		99
55)	2,4-Dinitrotoluene	8.85	165	651834	54999.3078833	ppb		89
56)	2,3,4,6-Tetrachlorophenol	0.00	232	0	N.D.	d		
57)	4-Nitrophenol	8.74	139	460514	55733.0178159	ppb		97
58)	Fluorene	9.26	166	1921048	43946.4970427	ppb		98
59)	4-Chlorophenyl-phenylether	9.24	204	958870	47067.6704697	ppb		92
60)	Diethyl phthalate	9.10	149	2030925	46170.2500362	ppb		97
61)	4-Nitroaniline	9.27	138	519227	51198.8236913	ppb		98
62)	Azobenzene	9.41	77	2548675	47953.0925683	ppb		100
63)	Atrazine	0.00	200	0	N.D.	d		
65)	4,6-Dinitro-2-methylphenol	9.29	198	361127	65001.4646480	ppb		89
66)	N-Nitrosodiphenylamine	9.37	169	1714286	45781.1641776	ppb		100
68)	4-Bromophenyl-phenylether	9.77	248	639064	48439.3584036	ppb		95
69)	Hexachlorobenzene	9.85	284	759540	48293.9287642	ppb		99
70)	n-octadecane	10.09	55	426329	45360.8369756	ppb		100
71)	Pentachlorophenol	10.05	266	482780	56582.1121271	ppb		98
72)	Phenanthrene	10.31	178	2886879	42671.4436165	ppb		98
73)	Anthracene	10.37	178	2943660	43011.7593342	ppb		99
74)	Carbazole	10.52	167	2828283	42937.7743697	ppb		99
75)	Di-n-butyl phthalate	10.85	149	3728876	42690.7385212	ppb		98
76)	2-nitrodiphenylamine	0.00	167	0	N.D.			
77)	Fluoranthene	11.61	202	3398619	41495.5941494	ppb		99
79)	Benzidine	0.00	184	0	N.D.			
80)	Pyrene	11.87	202	3574605	44457.5950902	ppb		98
82)	Benzylbutyl phthalate	12.48	149	2014021	49030.0435885	ppb		93
83)	3,3-Dichlorobenzidine	0.00	252	0	N.D.			
84)	Benzo(a)anthracene	13.15	228	3699221	43156.0031563	ppb		97
85)	Chrysene	13.20	228	3267857	42100.9792256	ppb		98
86)	bis(2-Ethylhexyl)phthalate	13.07	149	2780205	45236.3875284	ppb		97
87)	Di-n-octyl phthalate	13.74	149	4700510	44919.3364771	ppb		98
89)	Benzo(b)fluoranthene	14.28	252	4773058m	45153.9336276	ppb		
90)	Benzo(k)fluoranthene	14.31	252	3628646m	35047.3824328	ppb		
91)	Benzo(a)pyrene	14.63	252	4416673	43689.8827318	ppb		97
92)	Indeno(1,2,3-cd)pyrene	15.93	276	5291159	42685.6565223	ppb		96
93)	Dibenz(a,h)anthracene	15.92	278	4395751	42595.0350766	ppb		96
94)	Benzo(g,h,i)perylene	16.28	276	4504054	42904.9252717	ppb		97

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\111214\1112 12.D Vial: 10
Acq On : 12 Nov 2014 2:31 pm Operator: 280
Sample : STD SVMS 50K PPB 14K07412 Inst : BNAMS11
Misc : 8270 Primary Calibration Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Nov 12 20:22 2014 Quant Results File: S811K12N.RES

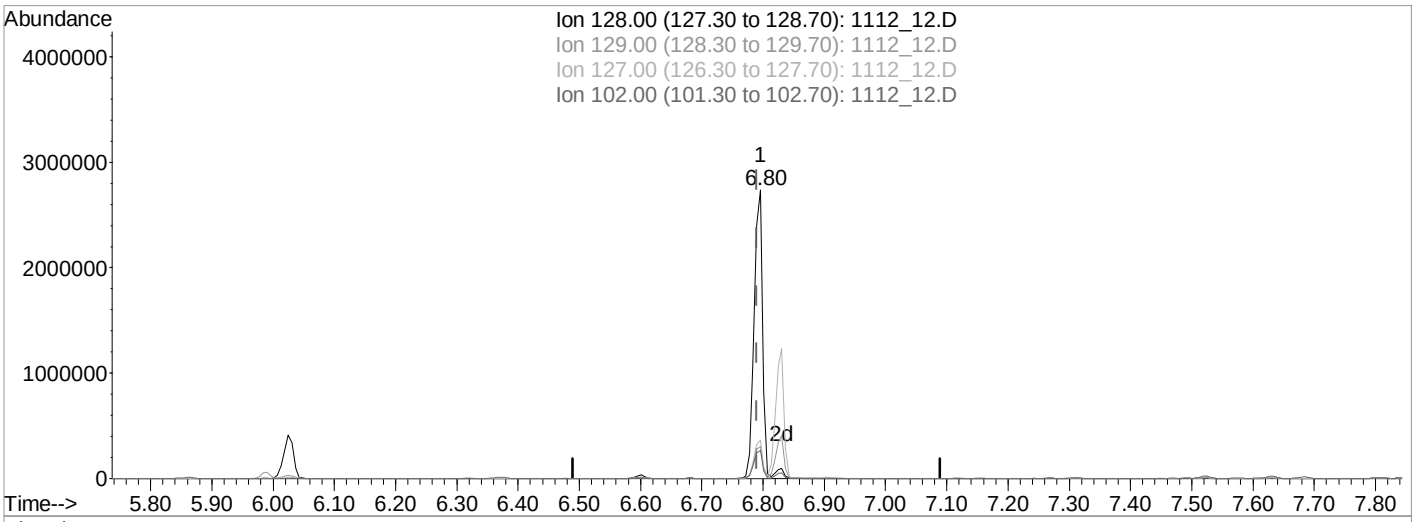
Method : C:\MSDCHEM\1\METHODS\S811K12N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Wed Nov 12 20:14:20 2014
Response via : Initial Calibration

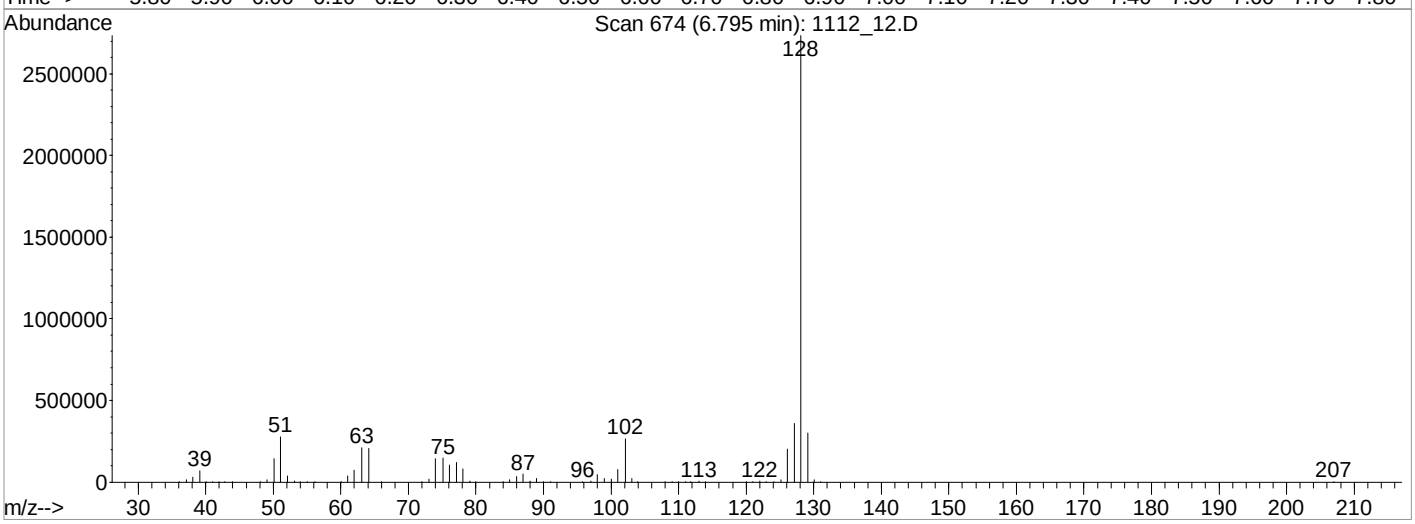


Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\111214\1112 12.D Vial: 10
Acq On : 12 Nov 2014 2:31 pm Operator: 280
Sample : STD SVMS 50K PPB 14K07412 Inst : BNAMS11
Misc : 8270 Primary Calibration Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Nov 12 20:19 2014 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\S811K12N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Wed Nov 12 20:14:20 2014
Response via : Multiple Level Calibration





TIC: 1112_12.D

(32) Naphthalene (MT)

6.80min (+0.006) 41731.6395280 ppb

Qvalue = 99

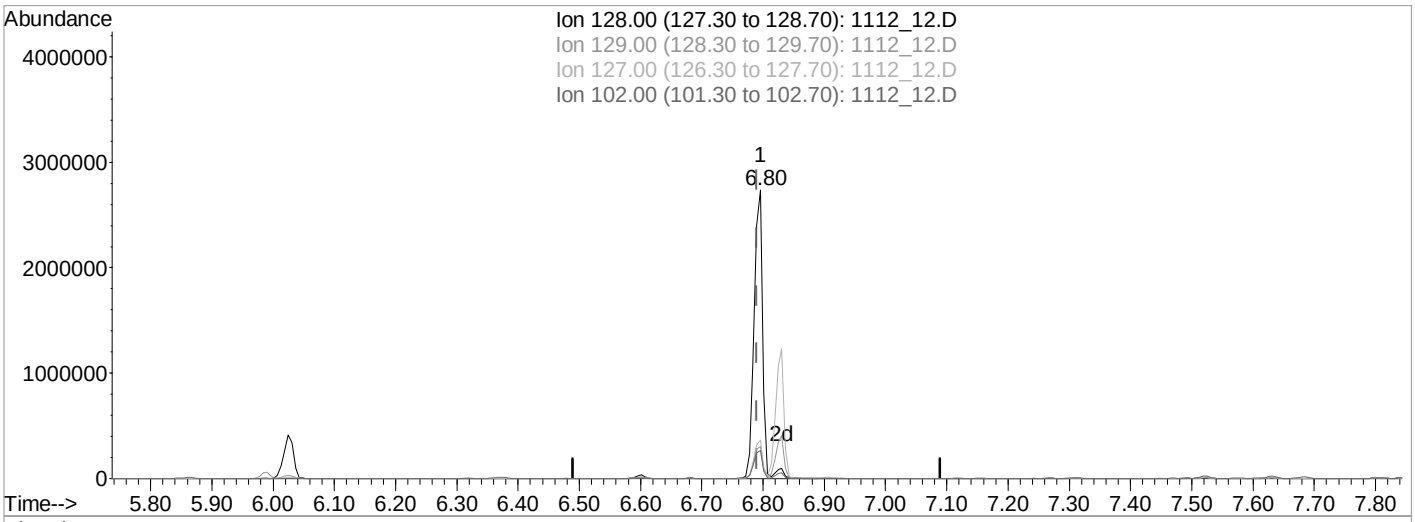
response 2594985

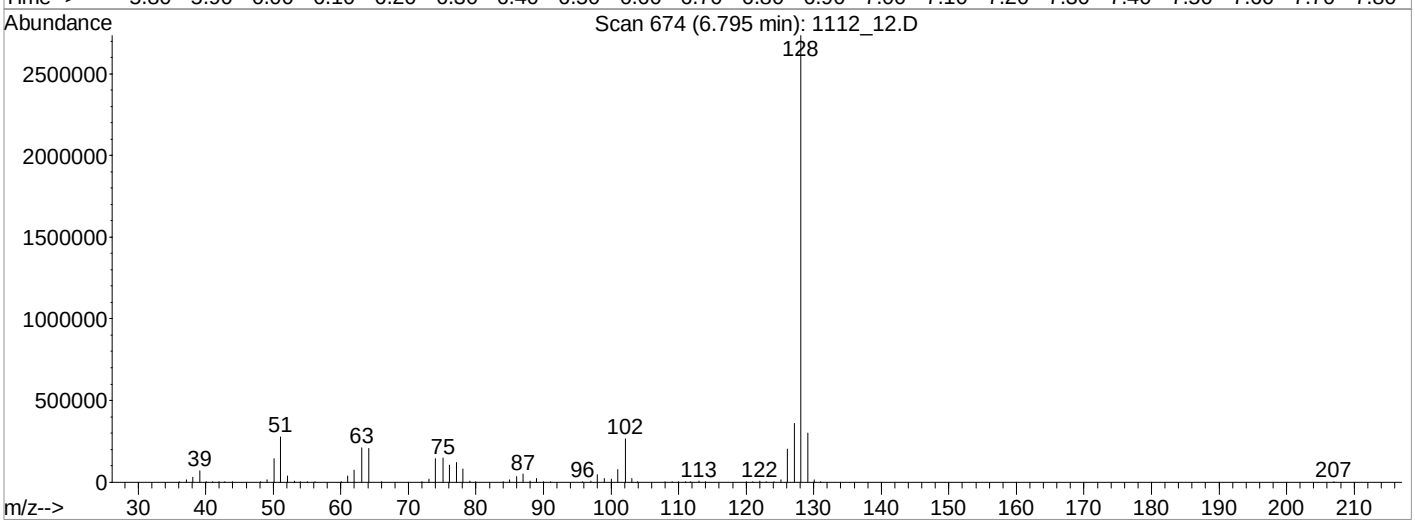
Ion	Exp%	Act%
128.00	100	100
129.00	10.50	11.00
127.00	12.90	13.18
102.00	8.80	9.64

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\111214\1112 12.D Vial: 10
Acq On : 12 Nov 2014 2:31 pm Operator: 280
Sample : STD SVMS 50K PPB 14K07412 Inst : BNAMS11
Misc : 8270 Primary Calibration Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Nov 12 20:19 2014 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\S811K12N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Wed Nov 12 20:14:20 2014
Response via : Multiple Level Calibration





TIC: 1112_12.D

(32) Naphthalene (MT)

6.80min (+0.006) 43112.3295557 ppb m

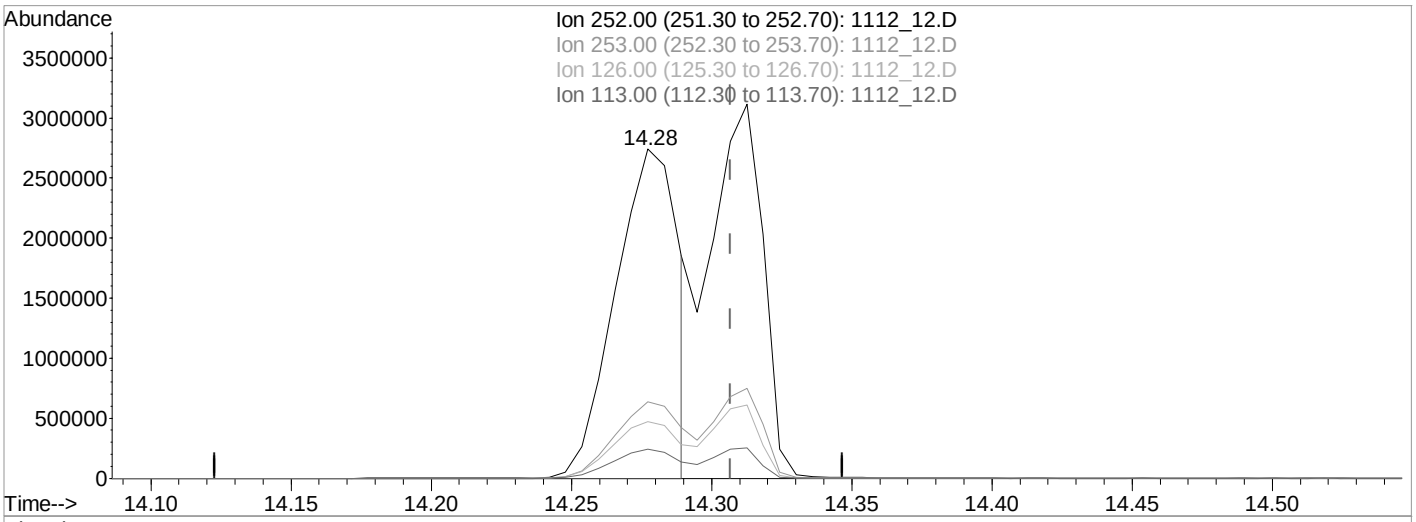
response 2680840

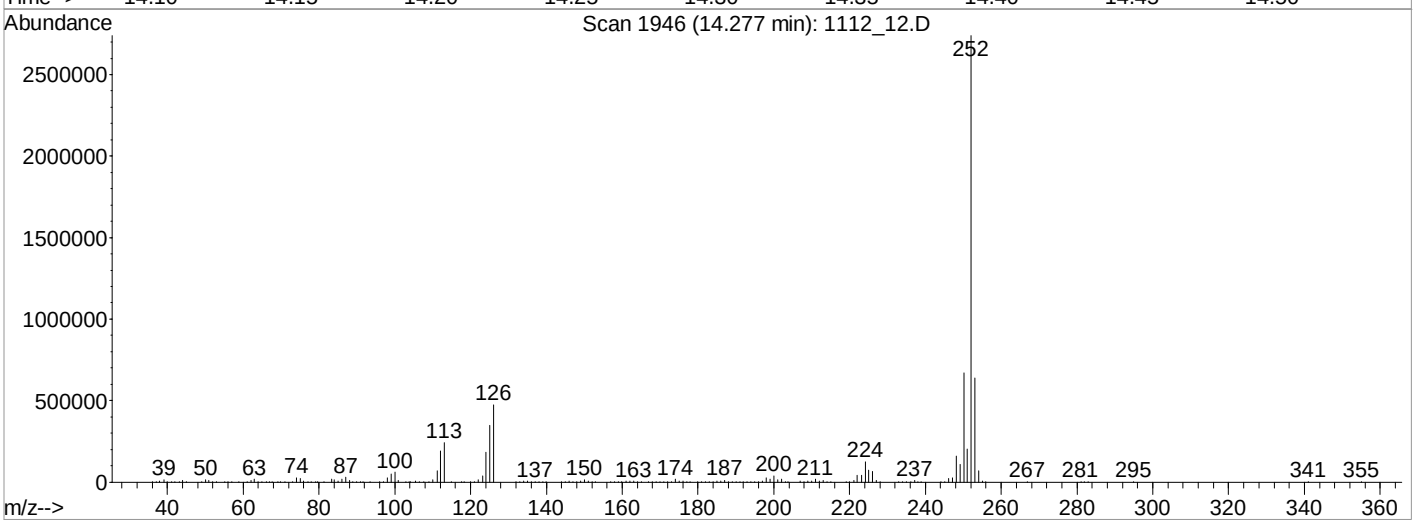
Ion	Exp%	Act%
128.00	100	100
129.00	10.50	11.00
127.00	12.90	13.18
102.00	8.80	9.64

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\111214\1112 12.D Vial: 10
Acq On : 12 Nov 2014 2:31 pm Operator: 280
Sample : STD SVMS 50K PPB 14K07412 Inst : BNAMS11
Misc : 8270 Primary Calibration Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Nov 12 20:21 2014 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\S811K12N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Wed Nov 12 20:14:20 2014
Response via : Multiple Level Calibration





TIC: 1112_12.D

(89) Benzo(b)fluoranthene (MT)

14.28min (-0.029) 40550.9655917 ppb

Qvalue = 95

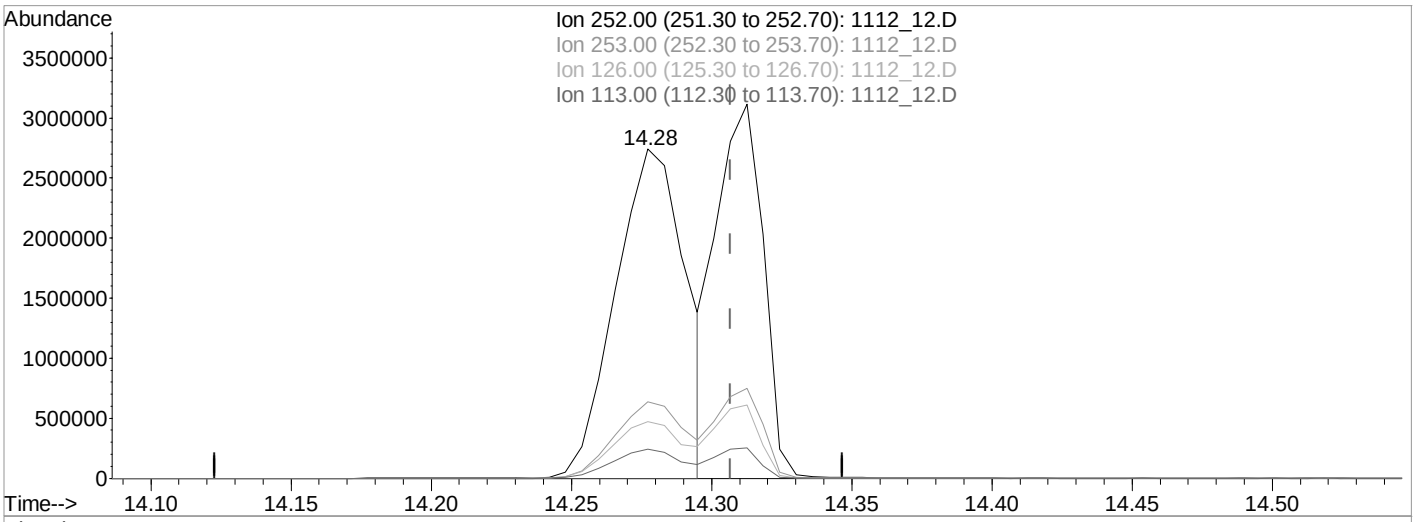
response 4286495

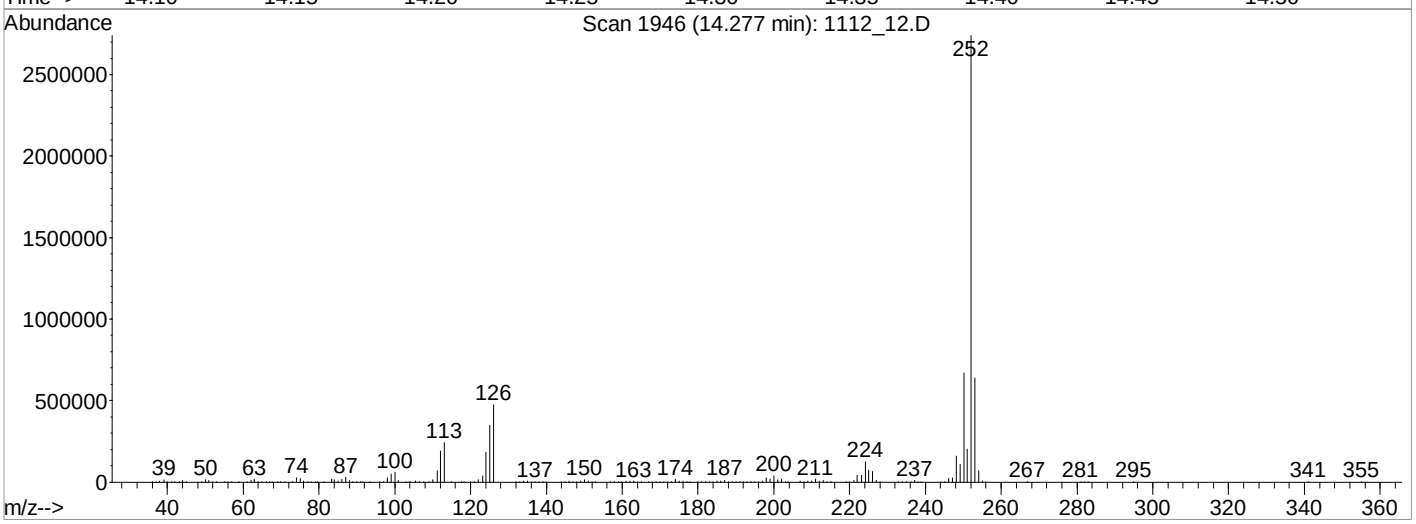
Ion	Exp%	Act%
252.00	100	100
253.00	22.30	23.63
126.00	15.50	18.38
113.00	7.80	9.70

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\111214\1112 12.D Vial: 10
Acq On : 12 Nov 2014 2:31 pm Operator: 280
Sample : STD SVMS 50K PPB 14K07412 Inst : BNAMS11
Misc : 8270 Primary Calibration Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Nov 12 20:22 2014 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\S811K12N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Wed Nov 12 20:14:20 2014
Response via : Multiple Level Calibration





TIC: 1112_12.D

(89) Benzo(b)fluoranthene (MT)

14.28min (-0.029) 45153.9336276 ppb m

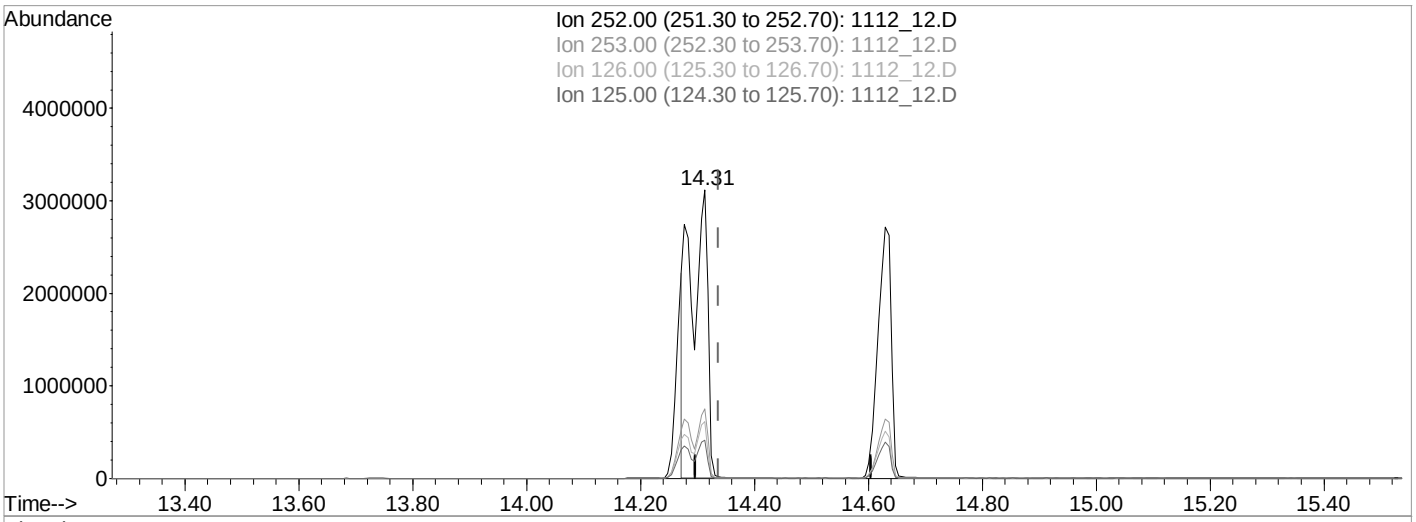
response 4773058

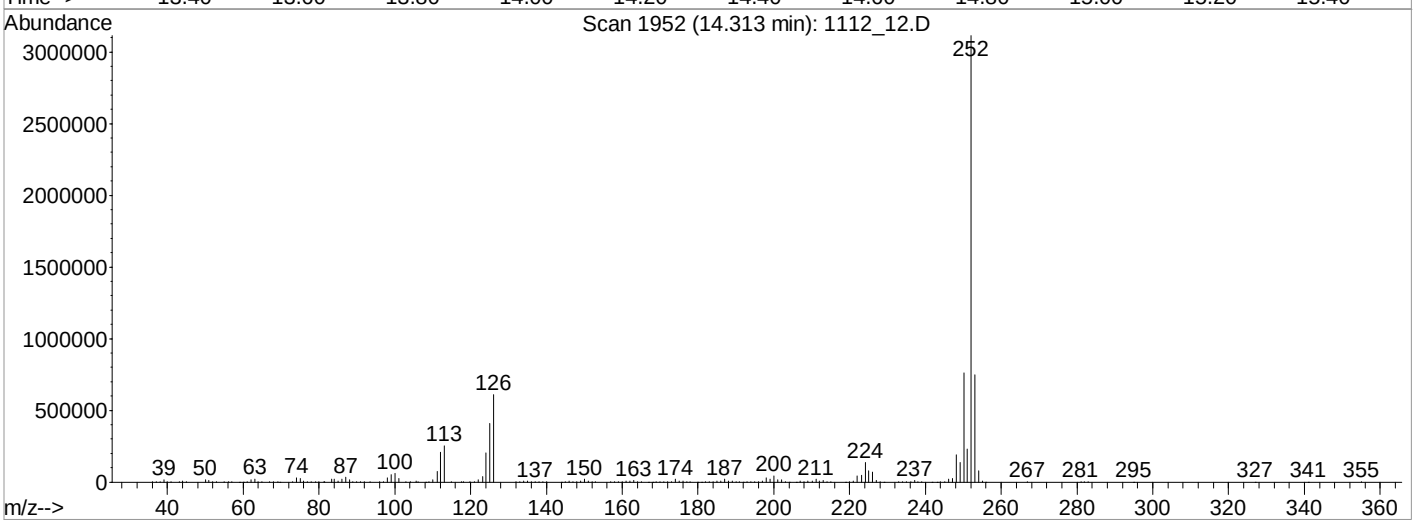
Ion	Exp%	Act%
252.00	100	100
253.00	22.30	23.32
126.00	15.50	17.23
113.00	7.80	8.87

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\111214\1112 12.D Vial: 10
Acq On : 12 Nov 2014 2:31 pm Operator: 280
Sample : STD SVMS 50K PPB 14K07412 Inst : BNAMS11
Misc : 8270 Primary Calibration Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Nov 12 20:22 2014 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\S811K12N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Wed Nov 12 20:14:20 2014
Response via : Multiple Level Calibration





TIC: 1112_12.D

(90) Benzo(k)fluoranthene (MT)

14.31min (-0.024) 64345.3323387 ppb

Qvalue = 94

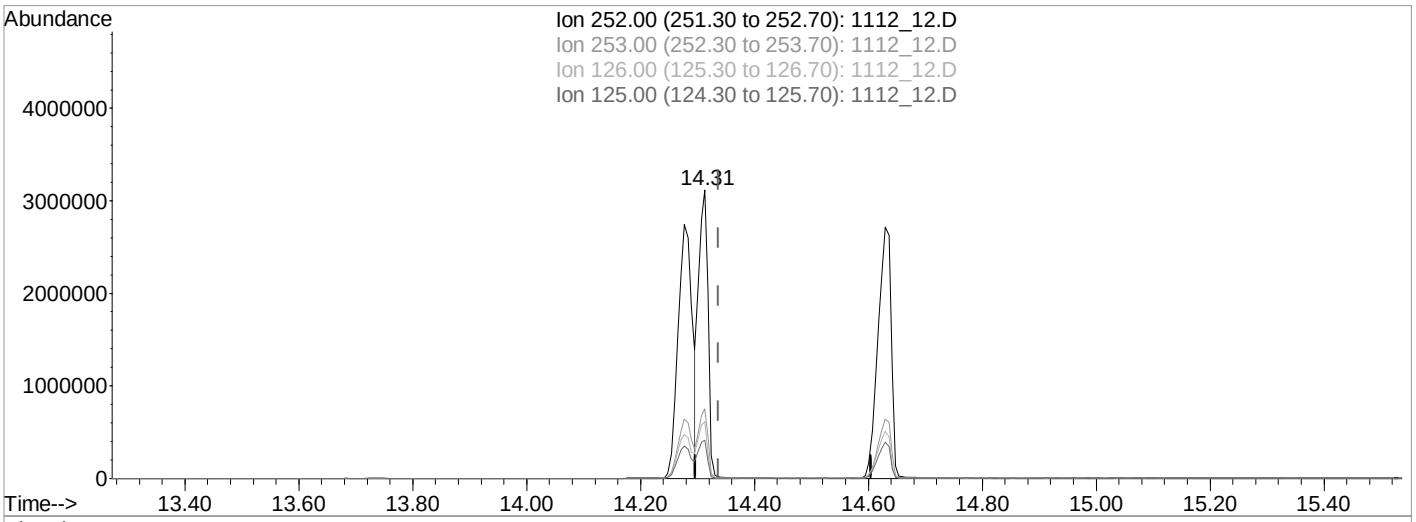
response 6662022

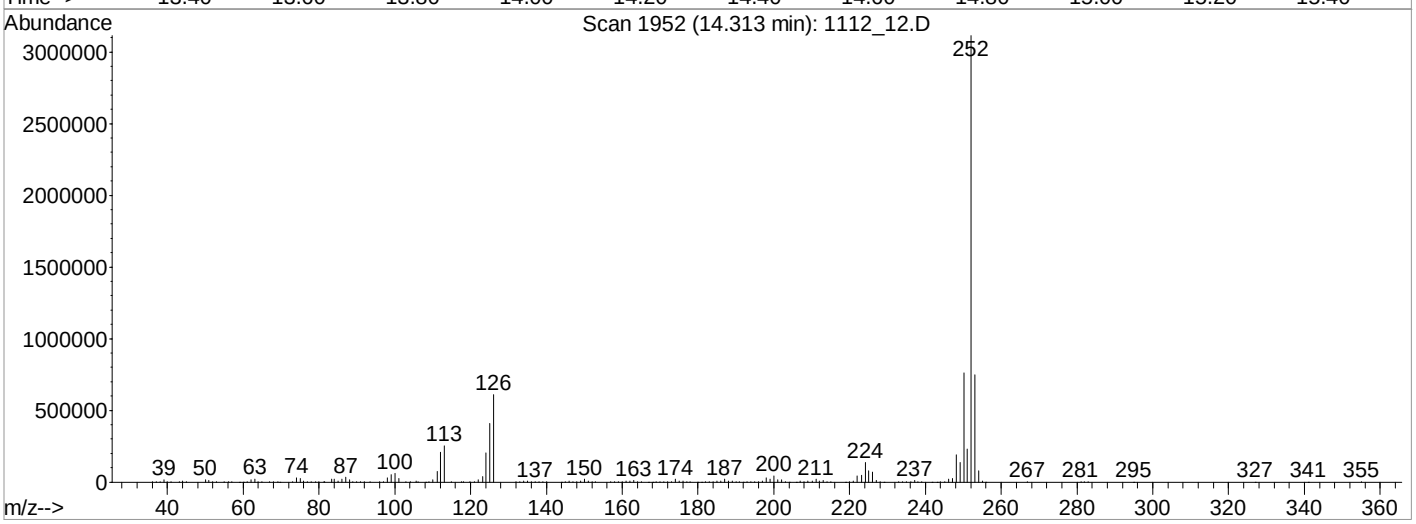
Ion	Exp%	Act%
252.00	100	100
253.00	21.90	23.99
126.00	16.00	19.55
125.00	10.50	13.18

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\111214\1112 12.D Vial: 10
Acq On : 12 Nov 2014 2:31 pm Operator: 280
Sample : STD SVMS 50K PPB 14K07412 Inst : BNAMS11
Misc : 8270 Primary Calibration Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Nov 12 20:22 2014 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\S811K12N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Wed Nov 12 20:14:20 2014
Response via : Multiple Level Calibration





TIC: 1112_12.D

(90) Benzo(k)fluoranthene (MT)

14.31min (-0.024) 35047.3824328 ppb m

response 3628646

Ion	Exp%	Act%
252.00	100	100
253.00	21.90	24.00
126.00	16.00	19.56
125.00	10.50	13.18

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\111214\1112 13.D Vial: 11
Acq On : 12 Nov 2014 2:53 pm Operator: 280
Sample : MSTD TCL 10K1 PPB 14G21532 Inst : BNAMS11
Misc : 8270 Primary Calibration Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Nov 12 19:40 2014 Quant Results File: S811K12N.RES

Quant Method : C:\MSDCHEM\1\METHODS\S811K12N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Wed Nov 12 19:36:25 2014
Response via : Initial Calibration
DataAcq Meth : BNA11A

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	5.48	152	101975	8000.00 ppb	0.00
22) Naphthalene-d8	6.76	136	433920	8000.00 ppb	0.00
40) Acenaphthene-d10	8.65	164	266327	8000.00 ppb	0.00
64) Phenanthrene-d10	10.28	188	477020	8000.00 ppb	0.00
78) Chrysene-d12	13.15	240	616220	8000.00 ppb	-0.02
88) Perylene-d12	14.67	264	737596	8000.00 ppb	-0.05

System Monitoring Compounds

4) 2-Fluorophenol	0.00	112	0	0.0000000 ppb	
Spiked Amount 20.000	Range 10 - 74		Recovery = 0.00%#		
7) Phenol-d5	0.00	99	0	0.0000000 ppb	
Spiked Amount 20.000	Range 10 - 63		Recovery = 0.00%#		
23) Nitrobenzene-d5	0.00	82	0d	0.0000000 ppb	
Spiked Amount 10.000	Range 28 - 123		Recovery = 0.00%#		
44) 2-Fluorobiphenyl	0.00	172	0d	0.0000000 ppb	
Spiked Amount 10.000	Range 35 - 133		Recovery = 0.00%#		
67) 2,4,6-Tribromophenol	0.00	330	0	0.0000000 ppb	
Spiked Amount 20.000	Range 22 - 154		Recovery = 0.00%#		
81) p-Terphenyl-d14	0.00	244	0	0.0000000 ppb	
Spiked Amount 10.000	Range 30 - 148		Recovery = 0.00%#		

Target Compounds

					Qvalue
2) Pyridine	0.00	79	0	N.D. d	
3) N-Nitrosodimethylamine	0.00	42	0	N.D. d	
5) Aniline	0.00	66	0	N.D. d	
6) bis(2-Chloroethyl)ether	0.00	63	0	N.D. d	
8) Phenol	0.00	94	0	N.D. d	
9) Benzaldehyde	5.09	105	93052	10000.0000000 ppb	100
10) 2-Chlorophenol	0.00	128	0	N.D.	
11) n-Decane	0.00	41	0	N.D. d	
12) 1,3-Dichlorobenzene	0.00	146	0	N.D.	
13) 1,4-Dichlorobenzene	0.00	146	0	N.D.	
14) Benzyl Alcohol	0.00	79	0	N.D. d	
15) 1,2-Dichlorobenzene	0.00	146	0	N.D.	
16) bis(2-Chloroisopropyl)ethe	0.00	121	0	N.D. d	
17) 2-Methylphenol	0.00	108	0	N.D.	
18) Hexachloroethane	0.00	117	0	N.D.	
19) N-Nitrosodi-n-propylamine	0.00	70	0	N.D.	
20) 3&4-Methyl phenol	0.00	107	0	N.D. d	
21) Acetophenone	5.86	105	277293	10000.0000000 ppb	100
24) Nitrobenzene	0.00	77	0	N.D. d	
25) Isophorone	0.00	82	0	N.D.	
26) 2-Nitrophenol	0.00	139	0	N.D.	
27) 2,4-Dimethylphenol	0.00	107	0	N.D. d	
28) bis(2-Chlorethoxy)methane	0.00	93	0	N.D. d	
29) 2,4-Dichlorophenol	0.00	162	0	N.D.	
30) Benzoic Acid	6.42	105	118136	10000.0000000 ppb	100
31) 1,2,4-Trichlorobenzene	0.00	180	0	N.D. d	
32) Naphthalene	0.00	128	0	N.D. d	
33) 4-Chloroaniline	0.00	65	0	N.D. d	
34) Hexachloro-1,3-butadiene	0.00	225	0	N.D.	
35) Caprolactam	7.17	113	58261	10000.0000000 ppb	100
36) 4-Chloro-3-methylphenol	0.00	107	0	N.D.	
37) 2-Methylnaphthalene	0.00	142	0	N.D.	
38) 1-Methylnaphthalene	0.00	142	0	N.D. d	

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\111214\1112 13.D Vial: 11
Acq On : 12 Nov 2014 2:53 pm Operator: 280
Sample : MSTD TCL 10K1 PPB 14G21532 Inst : BNAMS11
Misc : 8270 Primary Calibration Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Nov 12 19:40 2014 Quant Results File: S811K12N.RES

Quant Method : C:\MSDCHEM\1\METHODS\S811K12N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Wed Nov 12 19:36:25 2014
Response via : Initial Calibration
DataAcq Meth : BNA11A

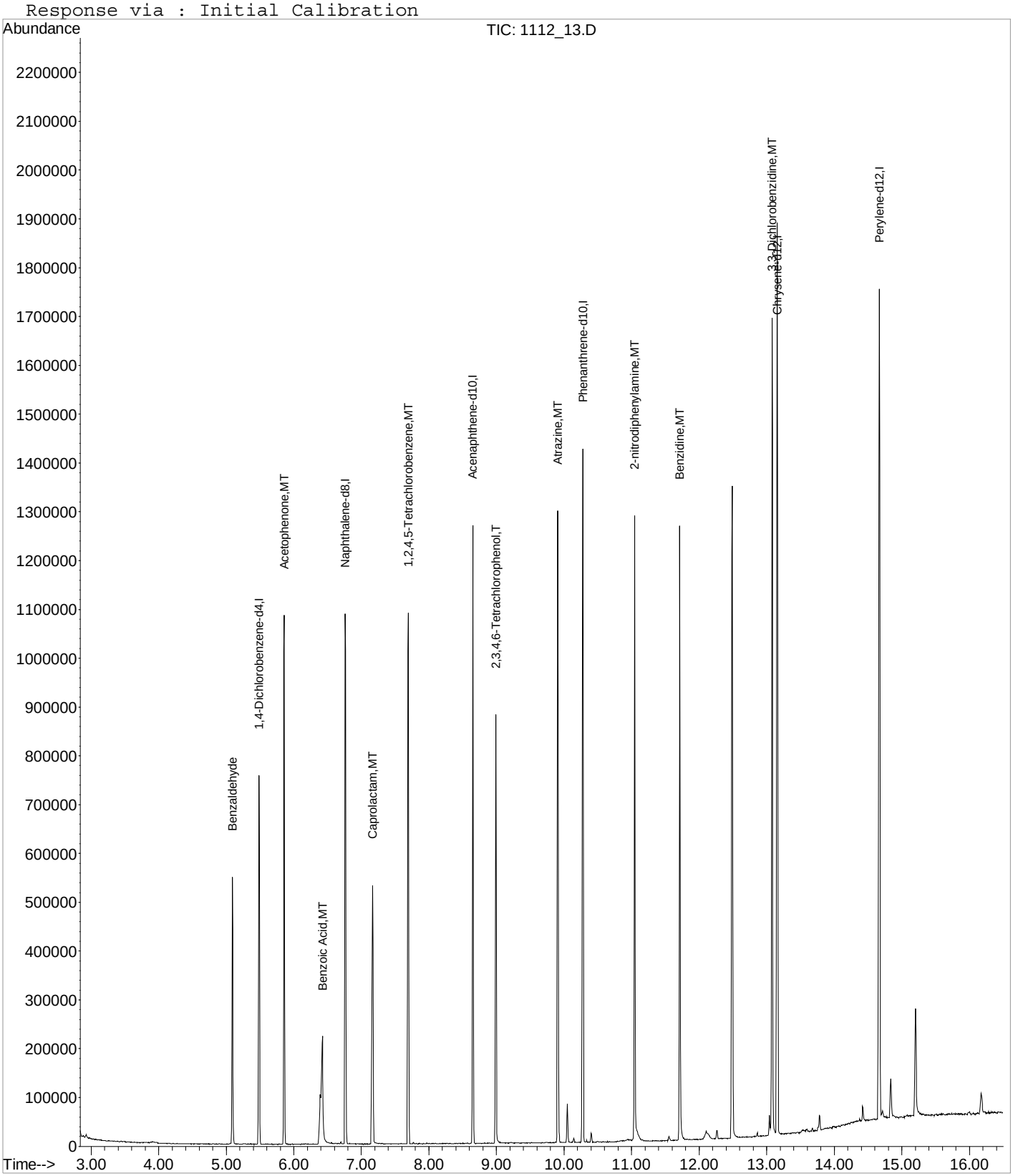
	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
39)	1,2,4,5-Tetrachlorobenzene	7.70	216	172641	10000.0000000	ppb	100
41)	Hexachlorocyclopentadiene	0.00	237	0	N.D.		
42)	2,4,6-Trichlorophenol	0.00	196	0	N.D.		
43)	2,4,5-Trichlorophenol	0.00	196	0	N.D.		
45)	Biphenyl	0.00	154	0	N.D.		
46)	2-Chloronaphthalene	0.00	162	0	N.D.		
47)	2-Nitroaniline	0.00	138	0	N.D.		
48)	Acenaphthylene	0.00	152	0	N.D.		
49)	Dimethyl phthalate	0.00	163	0	N.D.		
50)	2,6-Dinitrotoluene	0.00	165	0	N.D.		
51)	3-Nitroaniline	0.00	138	0	N.D.		
52)	Acenaphthene	0.00	153	0	N.D.		
53)	2,4-Dinitrophenol	0.00	184	0	N.D.		
54)	Dibenzofuran	0.00	168	0	N.D. d		
55)	2,4-Dinitrotoluene	0.00	165	0	N.D.		
56)	2,3,4,6-Tetrachlorophenol	8.99	232	87159	10000.0000000	ppb	100
57)	4-Nitrophenol	0.00	139	0	N.D.		
58)	Fluorene	0.00	166	0	N.D.		
59)	4-Chlorophenyl-phenylether	0.00	204	0	N.D.		
60)	Diethyl phthalate	0.00	149	0	N.D.		
61)	4-Nitroaniline	0.00	138	0	N.D.		
62)	Azobenzene	0.00	77	0	N.D. d		
63)	Atrazine	9.91	200	122639	10000.0000000	ppb	100
65)	4,6-Dinitro-2-methylphenol	0.00	198	0	N.D. d		
66)	N-Nitrosodiphenylamine	0.00	169	0	N.D.		
68)	4-Bromophenyl-phenylether	0.00	248	0	N.D.		
69)	Hexachlorobenzene	0.00	284	0	N.D.		
70)	n-octadecane	0.00	55	0	N.D. d		
71)	Pentachlorophenol	0.00	266	0	N.D. d		
72)	Phenanthrene	0.00	178	0	N.D. d		
73)	Anthracene	0.00	178	0	N.D. d		
74)	Carbazole	0.00	167	0	N.D. d		
75)	Di-n-butyl phthalate	0.00	149	0	N.D. d		
76)	2-nitrodiphenylamine	11.05	167	191247	10000.0000000	ppb	100
77)	Fluoranthene	0.00	202	0	N.D.		
79)	Benzidine	11.71	184	460048	10000.0000000	ppb	100
80)	Pyrene	0.00	202	0	N.D.		
82)	Benzylbutyl phthalate	0.00	149	0	N.D. d		
83)	3,3-Dichlorobenzidine	13.08	252	367162	10000.0000000	ppb	100
84)	Benzo(a)anthracene	0.00	228	0	N.D. d		
85)	Chrysene	0.00	228	0	N.D. d		
86)	bis(2-Ethylhexyl)phthalate	0.00	149	0	N.D. d		
87)	Di-n-octyl phthalate	0.00	149	0	N.D. d		
89)	Benzo(b)fluoranthene	0.00	252	0	N.D. d		
90)	Benzo(k)fluoranthene	0.00	252	0	N.D. d		
91)	Benzo(a)pyrene	0.00	252	0	N.D. d		
92)	Indeno(1,2,3-cd)pyrene	0.00	276	0	N.D. d		
93)	Dibenz(a,h)anthracene	0.00	278	0	N.D. d		
94)	Benzo(g,h,i)perylene	0.00	276	0	N.D. d		

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\111214\1112 13.D Vial: 11
Acq On : 12 Nov 2014 2:53 pm Operator: 280
Sample : MSTD TCL 10K1 PPB 14G21532 Inst : BNAMS11
Misc : 8270 Primary Calibration Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Nov 12 19:40 2014 Quant Results File: S811K12N.RES

Method : C:\MSDCHEM\1\METHODS\S811K12N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Wed Nov 12 20:49:50 2014
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\111214\1112 14.D Vial: 12
Acq On : 12 Nov 2014 3:14 pm Operator: 280
Sample : STD TCL .2K1 PPB 14G21532 Inst : BNAMS11
Misc : 8270 TCL Calibration Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Nov 12 20:25 2014 Quant Results File: S811K12N.RES

Quant Method : C:\MSDCHEM\1\METHODS\S811K12N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Wed Nov 12 20:23:26 2014
Response via : Initial Calibration
DataAcq Meth : BNA11A

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	5.48	152	92404	8000.00 ppb	0.00
22) Naphthalene-d8	6.76	136	408977	8000.00 ppb	0.00
40) Acenaphthene-d10	8.65	164	238216	8000.00 ppb	0.00
64) Phenanthrene-d10	10.28	188	431808	8000.00 ppb	0.00
78) Chrysene-d12	13.15	240	539915	8000.00 ppb	-0.02
88) Perylene-d12	14.66	264	656107	8000.00 ppb	-0.05

System Monitoring Compounds

4) 2-Fluorophenol	0.00	112	0	0.0000000 ppb	
Spiked Amount 20.000	Range 10 - 74		Recovery = 0.00%#		
7) Phenol-d5	0.00	99	0	0.0000000 ppb	
Spiked Amount 20.000	Range 10 - 63		Recovery = 0.00%#		
23) Nitrobenzene-d5	0.00	82	0	0.0000000 ppb	
Spiked Amount 10.000	Range 28 - 123		Recovery = 0.00%#		
44) 2-Fluorobiphenyl	0.00	172	0d	0.0000000 ppb	
Spiked Amount 10.000	Range 35 - 133		Recovery = 0.00%#		
67) 2,4,6-Tribromophenol	0.00	330	0	0.0000000 ppb	
Spiked Amount 20.000	Range 22 - 154		Recovery = 0.00%#		
81) p-Terphenyl-d14	0.00	244	0	0.0000000 ppb	
Spiked Amount 10.000	Range 30 - 148		Recovery = 0.00%#		

Target Compounds

						Qvalue
2) Pyridine	0.00	79	0	N.D.		
3) N-Nitrosodimethylamine	0.00	42	0	N.D. d		
5) Aniline	0.00	66	0	N.D.		
6) bis(2-Chloroethyl)ether	0.00	63	0	N.D. d		
8) Phenol	0.00	94	0	N.D.		
9) Benzaldehyde	5.09	105	1929	228.7754710 ppb	#	85
10) 2-Chlorophenol	0.00	128	0	N.D.		
11) n-Decane	0.00	41	0	N.D. d		
12) 1,3-Dichlorobenzene	0.00	146	0	N.D.		
13) 1,4-Dichlorobenzene	0.00	146	0	N.D.		
14) Benzyl Alcohol	0.00	79	0	N.D.		
15) 1,2-Dichlorobenzene	0.00	146	0	N.D.		
16) bis(2-Chloroisopropyl)ethe	0.00	121	0	N.D. d		
17) 2-Methylphenol	0.00	108	0	N.D.		
18) Hexachloroethane	0.00	117	0	N.D.		
19) N-Nitrosodi-n-propylamine	0.00	70	0	N.D.		
20) 3&4-Methyl phenol	0.00	107	0	N.D.		
21) Acetophenone	5.85	105	5514	219.4475810 ppb		95
24) Nitrobenzene	0.00	77	0	N.D. d		
25) Isophorone	0.00	82	0	N.D.		
26) 2-Nitrophenol	0.00	139	0	N.D.		
27) 2,4-Dimethylphenol	0.00	107	0	N.D.		
28) bis(2-Chlorethoxy)methane	0.00	93	0	N.D.		
29) 2,4-Dichlorophenol	0.00	162	0	N.D.		
30) Benzoic Acid	6.37	105	376	33.7688574 ppb	#	62
31) 1,2,4-Trichlorobenzene	0.00	180	0	N.D.		
32) Naphthalene	0.00	128	0	N.D. d		
33) 4-Chloroaniline	0.00	65	0	N.D. d		
34) Hexachloro-1,3-butadiene	0.00	225	0	N.D.		
35) Caprolactam	7.14	113	920	167.5408350 ppb	#	64
36) 4-Chloro-3-methylphenol	0.00	107	0	N.D.		
37) 2-Methylnaphthalene	0.00	142	0	N.D.		
38) 1-Methylnaphthalene	0.00	142	0	N.D.		

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\111214\1112 14.D Vial: 12
Acq On : 12 Nov 2014 3:14 pm Operator: 280
Sample : STD TCL .2K1 PPB 14G21532 Inst : BNAMS11
Misc : 8270 TCL Calibration Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Nov 12 20:25 2014 Quant Results File: S811K12N.RES

Quant Method : C:\MSDCHEM\1\METHODS\S811K12N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Wed Nov 12 20:23:26 2014
Response via : Initial Calibration
DataAcq Meth : BNA11A

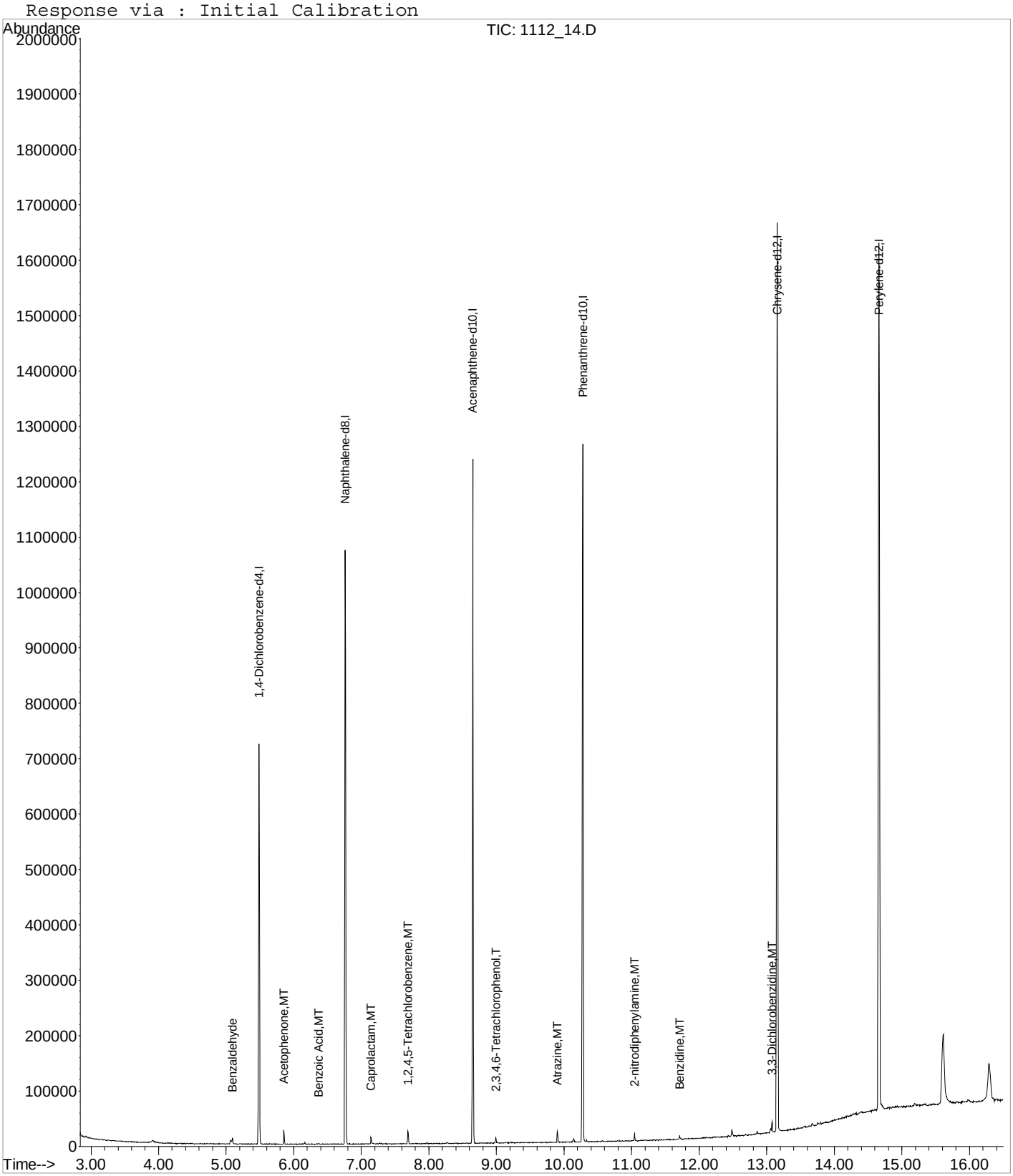
	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
39)	1,2,4,5-Tetrachlorobenzene	7.69	216	3277	201.3924946 ppb	97
41)	Hexachlorocyclopentadiene	0.00	237	0	N.D.	
42)	2,4,6-Trichlorophenol	0.00	196	0	N.D.	
43)	2,4,5-Trichlorophenol	0.00	196	0	N.D.	
45)	Biphenyl	0.00	154	0	N.D.	
46)	2-Chloronaphthalene	0.00	162	0	N.D.	
47)	2-Nitroaniline	0.00	138	0	N.D.	
48)	Acenaphthylene	0.00	152	0	N.D.	
49)	Dimethyl phthalate	0.00	163	0	N.D.	
50)	2,6-Dinitrotoluene	0.00	165	0	N.D.	
51)	3-Nitroaniline	0.00	138	0	N.D.	
52)	Acenaphthene	0.00	153	0	N.D.	
53)	2,4-Dinitrophenol	0.00	184	0	N.D.	
54)	Dibenzofuran	0.00	168	0	N.D. d	
55)	2,4-Dinitrotoluene	0.00	165	0	N.D.	
56)	2,3,4,6-Tetrachlorophenol	8.99	232	1251	160.4683326 ppb	86
57)	4-Nitrophenol	0.00	139	0	N.D.	
58)	Fluorene	0.00	166	0	N.D.	
59)	4-Chlorophenyl-phenylether	0.00	204	0	N.D.	
60)	Diethyl phthalate	0.00	149	0	N.D.	
61)	4-Nitroaniline	0.00	138	0	N.D.	
62)	Azobenzene	0.00	77	0	N.D.	
63)	Atrazine	9.90	200	1847	168.3769211 ppb	98
65)	4,6-Dinitro-2-methylphenol	0.00	198	0	N.D.	
66)	N-Nitrosodiphenylamine	0.00	169	0	N.D.	
68)	4-Bromophenyl-phenylether	0.00	248	0	N.D.	
69)	Hexachlorobenzene	0.00	284	0	N.D.	
70)	n-octadecane	0.00	55	0	N.D. d	
71)	Pentachlorophenol	0.00	266	0	N.D.	
72)	Phenanthrene	0.00	178	0	N.D.	
73)	Anthracene	0.00	178	0	N.D.	
74)	Carbazole	0.00	167	0	N.D.	
75)	Di-n-butyl phthalate	0.00	149	0	N.D. d	
76)	2-nitrodiphenylamine	11.04	167	1960	113.2158793 ppb	94
77)	Fluoranthene	0.00	202	0	N.D.	
79)	Benzidine	11.71	184	3312	82.1670278 ppb	95
80)	Pyrene	0.00	202	0	N.D.	
82)	Benzylbutyl phthalate	0.00	149	0	N.D.	
83)	3,3-Dichlorobenzidine	13.08	252	5283	164.2227348 ppb	97
84)	Benzo(a)anthracene	0.00	228	0	N.D. d	
85)	Chrysene	0.00	228	0	N.D. d	
86)	bis(2-Ethylhexyl)phthalate	0.00	149	0	N.D. d	
87)	Di-n-octyl phthalate	0.00	149	0	N.D. d	
89)	Benzo(b)fluoranthene	0.00	252	0	N.D.	
90)	Benzo(k)fluoranthene	0.00	252	0	N.D.	
91)	Benzo(a)pyrene	0.00	252	0	N.D. d	
92)	Indeno(1,2,3-cd)pyrene	0.00	276	0	N.D.	
93)	Dibenz(a,h)anthracene	0.00	278	0	N.D.	
94)	Benzo(g,h,i)perylene	0.00	276	0	N.D.	

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\111214\1112 14.D Vial: 12
Acq On : 12 Nov 2014 3:14 pm Operator: 280
Sample : STD TCL .2K1 PPB 14G21532 Inst : BNAMS11
Misc : 8270 TCL Calibration Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Nov 12 20:25 2014 Quant Results File: S811K12N.RES

Method : C:\MSDCHEM\1\METHODS\S811K12N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Wed Nov 12 20:49:50 2014
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\111214\1112 15.D Vial: 13
Acq On : 12 Nov 2014 3:35 pm Operator: 280
Sample : STD TCL 1K1 PPB 14G21532 Inst : BNAMS11
Misc : 8270 TCL Calibration Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Nov 12 20:29 2014 Quant Results File: S811K12N.RES

Quant Method : C:\MSDCHEM\1\METHODS\S811K12N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Wed Nov 12 20:26:31 2014
Response via : Initial Calibration
DataAcq Meth : BNA11A

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	5.48	152	101938	8000.00 ppb	0.00
22) Naphthalene-d8	6.77	136	440126	8000.00 ppb	0.00
40) Acenaphthene-d10	8.65	164	266288	8000.00 ppb	0.00
64) Phenanthrene-d10	10.28	188	481873	8000.00 ppb	0.00
78) Chrysene-d12	13.15	240	596044	8000.00 ppb	-0.02
88) Perylene-d12	14.66	264	728229	8000.00 ppb	-0.05

System Monitoring Compounds

4) 2-Fluorophenol	0.00	112	0	0.0000000 ppb	
Spiked Amount 20.000	Range 10 - 74		Recovery = 0.00%#		
7) Phenol-d5	0.00	99	0	0.0000000 ppb	
Spiked Amount 20.000	Range 10 - 63		Recovery = 0.00%#		
23) Nitrobenzene-d5	0.00	82	0	0.0000000 ppb	
Spiked Amount 10.000	Range 28 - 123		Recovery = 0.00%#		
44) 2-Fluorobiphenyl	0.00	172	0d	0.0000000 ppb	
Spiked Amount 10.000	Range 35 - 133		Recovery = 0.00%#		
67) 2,4,6-Tribromophenol	0.00	330	0	0.0000000 ppb	
Spiked Amount 20.000	Range 22 - 154		Recovery = 0.00%#		
81) p-Terphenyl-d14	0.00	244	0	0.0000000 ppb	
Spiked Amount 10.000	Range 30 - 148		Recovery = 0.00%#		

Target Compounds

					Qvalue
2) Pyridine	0.00	79	0	N.D.	
3) N-Nitrosodimethylamine	0.00	42	0	N.D. d	
5) Aniline	0.00	66	0	N.D.	
6) bis(2-Chloroethyl)ether	0.00	63	0	N.D. d	
8) Phenol	0.00	94	0	N.D.	
9) Benzaldehyde	5.09	105	9553	958.0799017 ppb	97
10) 2-Chlorophenol	0.00	128	0	N.D.	
11) n-Decane	0.00	41	0	N.D. d	
12) 1,3-Dichlorobenzene	0.00	146	0	N.D.	
13) 1,4-Dichlorobenzene	0.00	146	0	N.D.	
14) Benzyl Alcohol	0.00	79	0	N.D.	
15) 1,2-Dichlorobenzene	0.00	146	0	N.D.	
16) bis(2-Chloroisopropyl)ethe	0.00	121	0	N.D. d	
17) 2-Methylphenol	0.00	108	0	N.D.	
18) Hexachloroethane	0.00	117	0	N.D.	
19) N-Nitrosodi-n-propylamine	0.00	70	0	N.D.	
20) 3&4-Methyl phenol	0.00	107	0	N.D. d	
21) Acetophenone	5.86	105	29420	1012.1471688 ppb	99
24) Nitrobenzene	0.00	77	0	N.D. d	
25) Isophorone	0.00	82	0	N.D.	
26) 2-Nitrophenol	0.00	139	0	N.D.	
27) 2,4-Dimethylphenol	0.00	107	0	N.D.	
28) bis(2-Chlorethoxy)methane	0.00	93	0	N.D.	
29) 2,4-Dichlorophenol	0.00	162	0	N.D.	
30) Benzoic Acid	6.38	105	5602	799.9573312 ppb	100
31) 1,2,4-Trichlorobenzene	0.00	180	0	N.D.	
32) Naphthalene	0.00	128	0	N.D. d	
33) 4-Chloroaniline	0.00	65	0	N.D. d	
34) Hexachloro-1,3-butadiene	0.00	225	0	N.D.	
35) Caprolactam	7.15	113	5500	1012.9121755 ppb	92
36) 4-Chloro-3-methylphenol	0.00	107	0	N.D.	
37) 2-Methylnaphthalene	0.00	142	0	N.D.	
38) 1-Methylnaphthalene	0.00	142	0	N.D. d	

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\111214\1112 15.D Vial: 13
Acq On : 12 Nov 2014 3:35 pm Operator: 280
Sample : STD TCL 1K1 PPB 14G21532 Inst : BNAMS11
Misc : 8270 TCL Calibration Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Nov 12 20:29 2014 Quant Results File: S811K12N.RES

Quant Method : C:\MSDCHEM\1\METHODS\S811K12N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Wed Nov 12 20:26:31 2014
Response via : Initial Calibration
DataAcq Meth : BNA11A

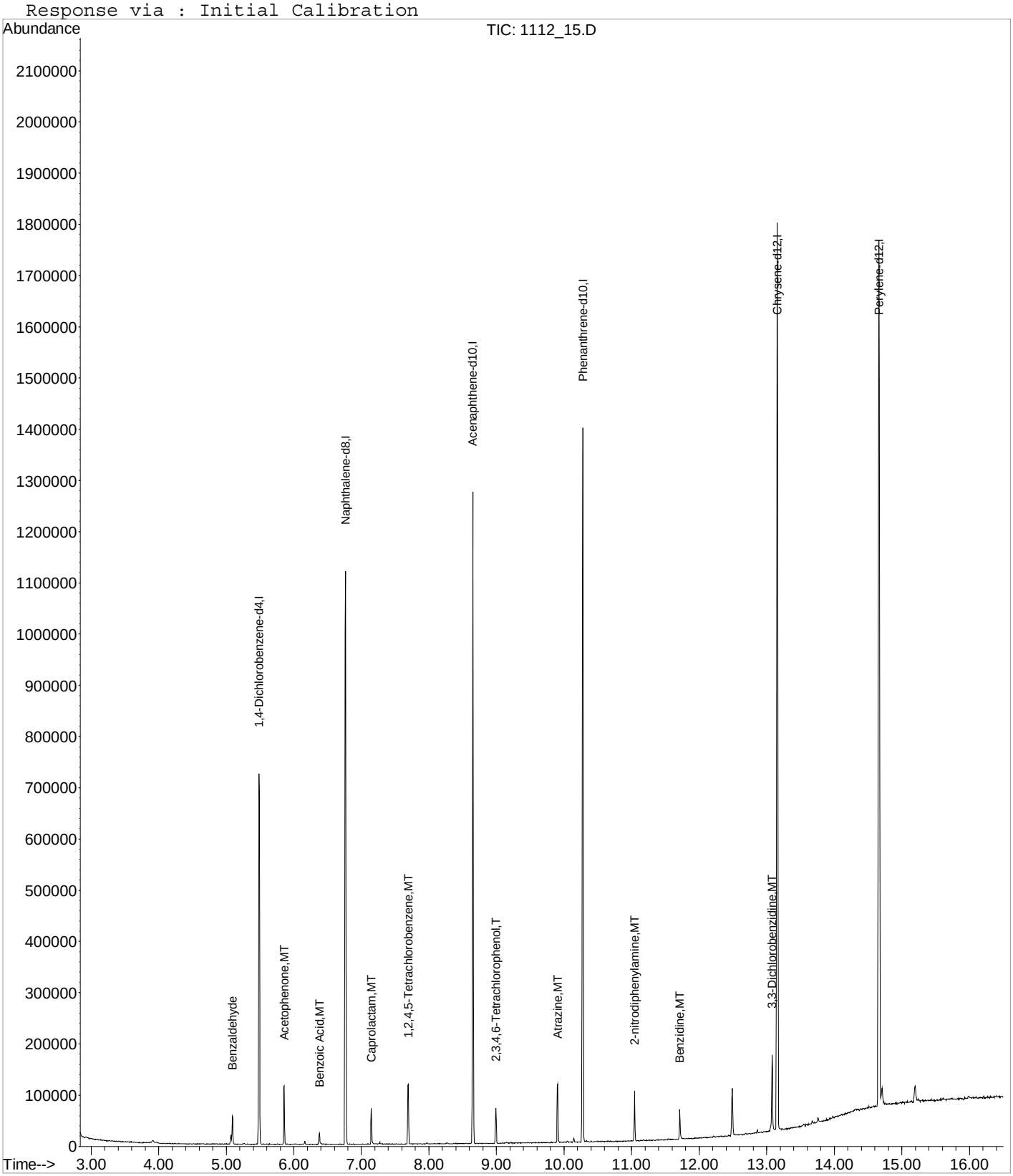
	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
39)	1,2,4,5-Tetrachlorobenzene	7.70	216	18478	1051.5608447 ppb	98
41)	Hexachlorocyclopentadiene	0.00	237	0	N.D.	
42)	2,4,6-Trichlorophenol	0.00	196	0	N.D.	
43)	2,4,5-Trichlorophenol	0.00	196	0	N.D.	
45)	Biphenyl	0.00	154	0	N.D.	
46)	2-Chloronaphthalene	0.00	162	0	N.D.	
47)	2-Nitroaniline	0.00	138	0	N.D.	
48)	Acenaphthylene	0.00	152	0	N.D.	
49)	Dimethyl phthalate	0.00	163	0	N.D.	
50)	2,6-Dinitrotoluene	0.00	165	0	N.D.	
51)	3-Nitroaniline	0.00	138	0	N.D.	
52)	Acenaphthene	0.00	153	0	N.D.	
53)	2,4-Dinitrophenol	0.00	184	0	N.D.	
54)	Dibenzofuran	0.00	168	0	N.D. d	
55)	2,4-Dinitrotoluene	0.00	165	0	N.D.	
56)	2,3,4,6-Tetrachlorophenol	8.99	232	8020	1021.2183369 ppb	89
57)	4-Nitrophenol	0.00	139	0	N.D.	
58)	Fluorene	0.00	166	0	N.D.	
59)	4-Chlorophenyl-phenylether	0.00	204	0	N.D.	
60)	Diethyl phthalate	0.00	149	0	N.D.	
61)	4-Nitroaniline	0.00	138	0	N.D.	
62)	Azobenzene	0.00	77	0	N.D.	
63)	Atrazine	9.91	200	11517	1019.8632556 ppb	100
65)	4,6-Dinitro-2-methylphenol	0.00	198	0	N.D. d	
66)	N-Nitrosodiphenylamine	0.00	169	0	N.D.	
68)	4-Bromophenyl-phenylether	0.00	248	0	N.D.	
69)	Hexachlorobenzene	0.00	284	0	N.D.	
70)	n-octadecane	0.00	55	0	N.D. d	
71)	Pentachlorophenol	0.00	266	0	N.D. d	
72)	Phenanthrene	0.00	178	0	N.D. d	
73)	Anthracene	0.00	178	0	N.D. d	
74)	Carbazole	0.00	167	0	N.D.	
75)	Di-n-butyl phthalate	0.00	149	0	N.D. d	
76)	2-nitrodiphenylamine	11.04	167	12557	830.0638069 ppb	97
77)	Fluoranthene	0.00	202	0	N.D.	
79)	Benzidine	11.71	184	25940m	826.3766202 ppb	
80)	Pyrene	0.00	202	0	N.D.	
82)	Benzylbutyl phthalate	0.00	149	0	N.D. d	
83)	3,3-Dichlorobenzidine	13.08	252	34081	1053.9136073 ppb	98
84)	Benzo(a)anthracene	0.00	228	0	N.D. d	
85)	Chrysene	0.00	228	0	N.D. d	
86)	bis(2-Ethylhexyl)phthalate	0.00	149	0	N.D. d	
87)	Di-n-octyl phthalate	0.00	149	0	N.D. d	
89)	Benzo(b)fluoranthene	0.00	252	0	N.D.	
90)	Benzo(k)fluoranthene	0.00	252	0	N.D.	
91)	Benzo(a)pyrene	0.00	252	0	N.D. d	
92)	Indeno(1,2,3-cd)pyrene	0.00	276	0	N.D.	
93)	Dibenz(a,h)anthracene	0.00	278	0	N.D.	
94)	Benzo(g,h,i)perylene	0.00	276	0	N.D.	

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\111214\1112 15.D Vial: 13
Acq On : 12 Nov 2014 3:35 pm Operator: 280
Sample : STD TCL 1K1 PPB 14G21532 Inst : BNAMS11
Misc : 8270 TCL Calibration Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Nov 12 20:29 2014 Quant Results File: S811K12N.RES

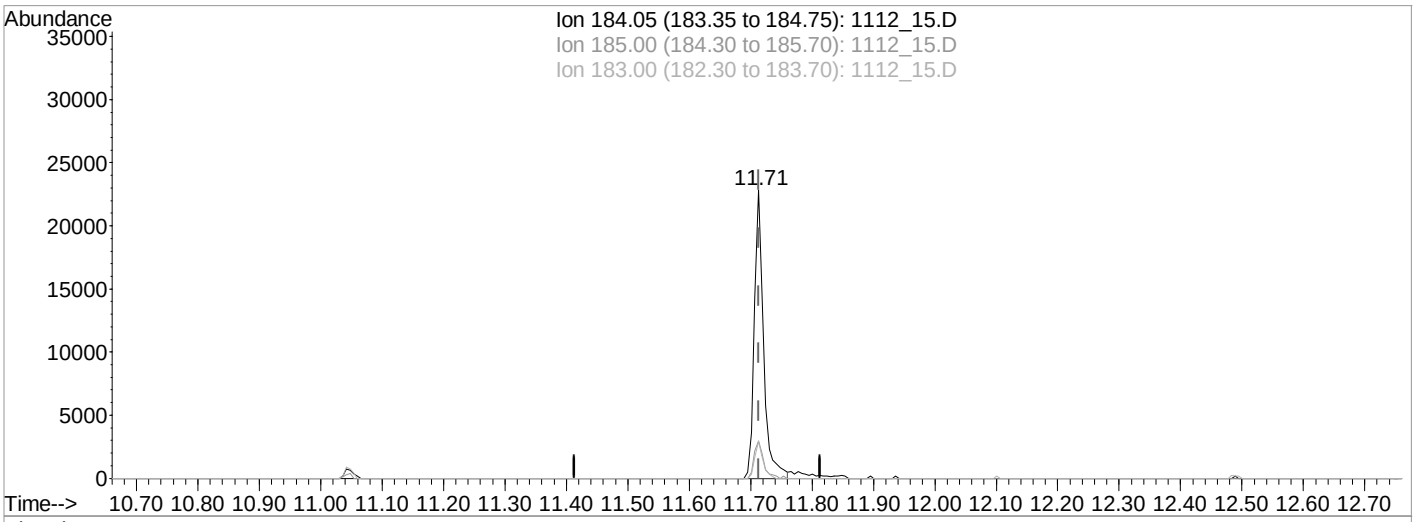
Method : C:\MSDCHEM\1\METHODS\S811K12N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Wed Nov 12 20:49:50 2014
Response via : Initial Calibration

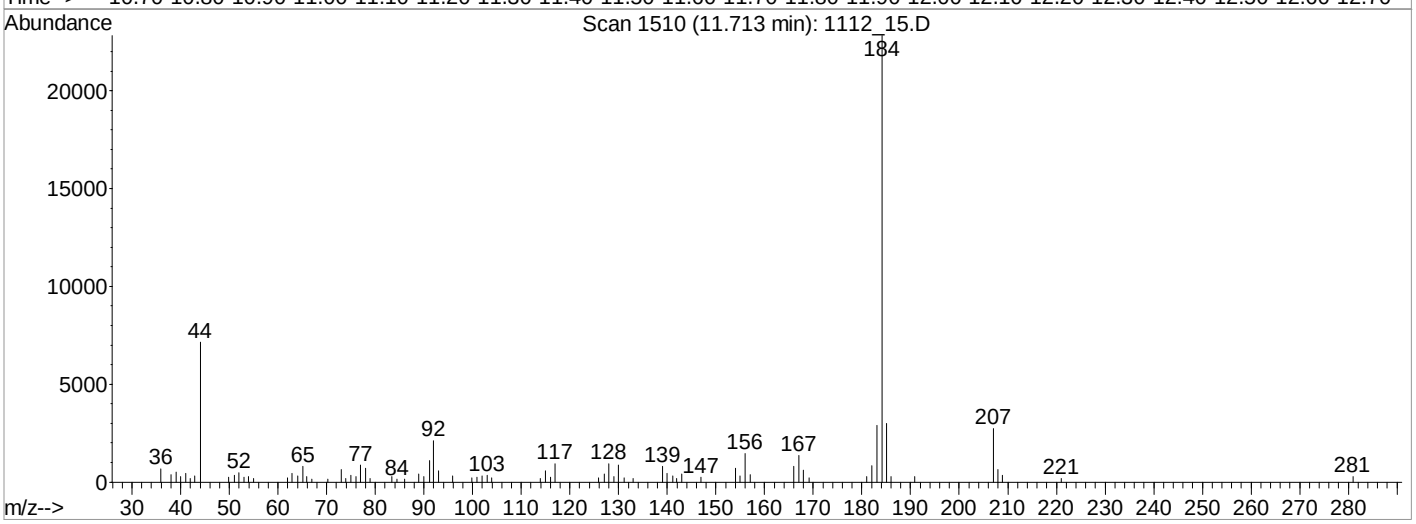


Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\111214\1112 15.D Vial: 13
Acq On : 12 Nov 2014 3:35 pm Operator: 280
Sample : STD TCL 1K PPB 14G21532 Inst : BNAMS11
Misc : 8270 TCL Calibration Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Nov 12 20:28 2014 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\S811K12N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Wed Nov 12 20:26:31 2014
Response via : Single Level Calibration





TIC: 1112_15.D

(79) Benzidine (MT)

11.71min (+0.000) 775.7873344 ppb

Qvalue = 99

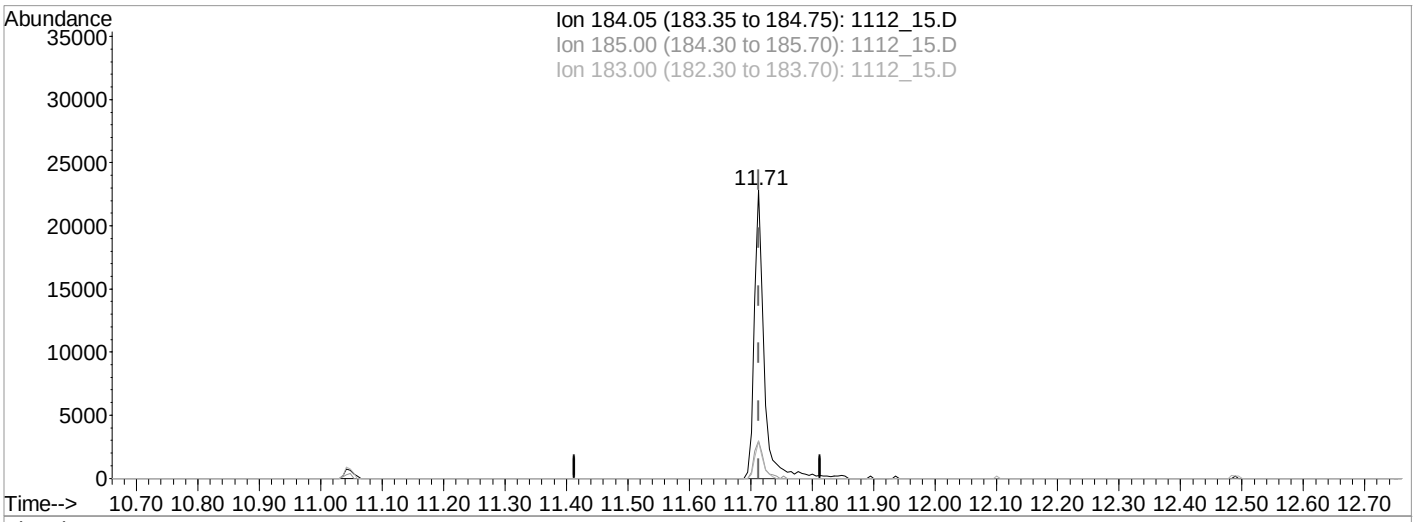
response 24352

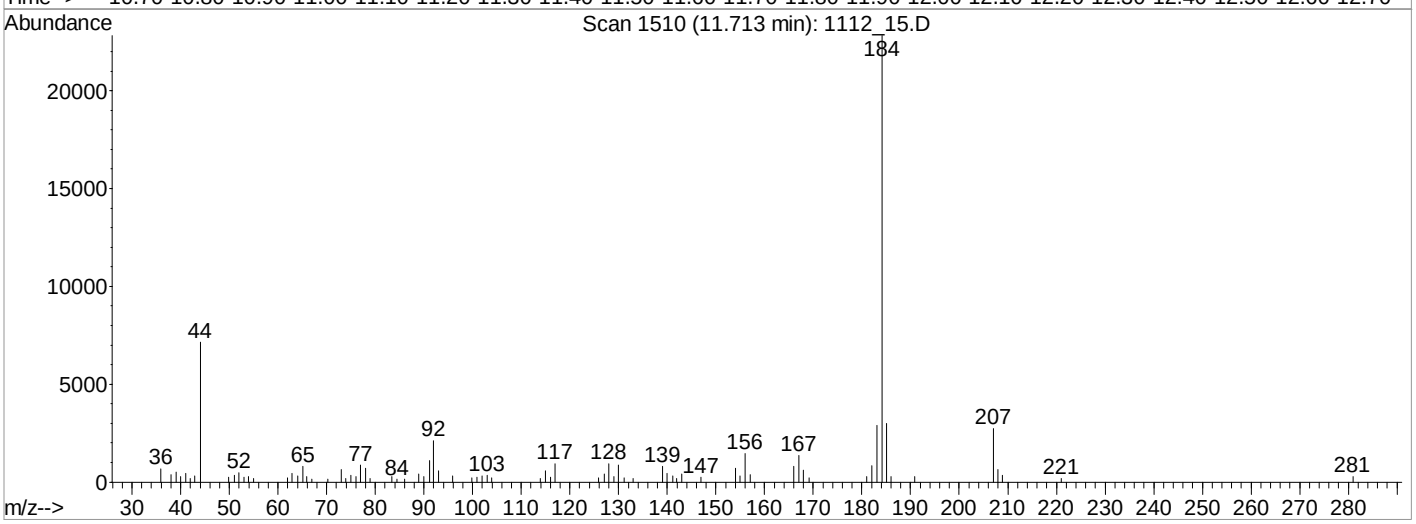
Ion	Exp%	Act%
184.05	100	100
185.00	14.30	13.51
183.00	11.60	11.39
0.00	0.00	0.00

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\111214\1112 15.D Vial: 13
Acq On : 12 Nov 2014 3:35 pm Operator: 280
Sample : STD TCL 1K PPB 14G21532 Inst : BNAMS11
Misc : 8270 TCL Calibration Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Nov 12 20:29 2014 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\S811K12N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Wed Nov 12 20:26:31 2014
Response via : Single Level Calibration





TIC: 1112_15.D

(79) Benzidine (MT)

11.71min (+0.000) 826.3766202 ppb m

response 25940

Ion	Exp%	Act%
184.05	100	100
185.00	14.30	12.69
183.00	11.60	10.69
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\111214\1112 16.D Vial: 14
Acq On : 12 Nov 2014 3:56 pm Operator: 280
Sample : STD TCL 2K1 PPB 14G21532 Inst : BNAMS11
Misc : 8270 TCL Calibration Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Nov 12 20:31 2014 Quant Results File: S811K12N.RES

Quant Method : C:\MSDCHEM\1\METHODS\S811K12N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Wed Nov 12 20:29:31 2014
Response via : Initial Calibration
DataAcq Meth : BNA11A

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	5.48	152	94049	8000.00 ppb	0.00
22) Naphthalene-d8	6.76	136	414869	8000.00 ppb	0.00
40) Acenaphthene-d10	8.65	164	249624	8000.00 ppb	0.00
64) Phenanthrene-d10	10.28	188	456206	8000.00 ppb	0.00
78) Chrysene-d12	13.15	240	566808	8000.00 ppb	-0.02
88) Perylene-d12	14.66	264	671221	8000.00 ppb	-0.05

System Monitoring Compounds

4) 2-Fluorophenol	0.00	112	0	0.0000000 ppb	
Spiked Amount 20.000	Range 10 - 74		Recovery = 0.00%#		
7) Phenol-d5	0.00	99	0	0.0000000 ppb	
Spiked Amount 20.000	Range 10 - 63		Recovery = 0.00%#		
23) Nitrobenzene-d5	0.00	82	0	0.0000000 ppb	
Spiked Amount 10.000	Range 28 - 123		Recovery = 0.00%#		
44) 2-Fluorobiphenyl	0.00	172	0d	0.0000000 ppb	
Spiked Amount 10.000	Range 35 - 133		Recovery = 0.00%#		
67) 2,4,6-Tribromophenol	0.00	330	0	0.0000000 ppb	
Spiked Amount 20.000	Range 22 - 154		Recovery = 0.00%#		
81) p-Terphenyl-d14	0.00	244	0	0.0000000 ppb	
Spiked Amount 10.000	Range 30 - 148		Recovery = 0.00%#		

Target Compounds

					Qvalue
2) Pyridine	0.00	79	0	N.D.	
3) N-Nitrosodimethylamine	0.00	42	0	N.D. d	
5) Aniline	0.00	66	0	N.D.	
6) bis(2-Chloroethyl)ether	0.00	63	0	N.D. d	
8) Phenol	0.00	94	0	N.D.	
9) Benzaldehyde	5.09	105	17648	1945.5873218 ppb	98
10) 2-Chlorophenol	0.00	128	0	N.D.	
11) n-Decane	0.00	41	0	N.D. d	
12) 1,3-Dichlorobenzene	0.00	146	0	N.D.	
13) 1,4-Dichlorobenzene	0.00	146	0	N.D.	
14) Benzyl Alcohol	0.00	79	0	N.D.	
15) 1,2-Dichlorobenzene	0.00	146	0	N.D.	
16) bis(2-Chloroisopropyl)ethe	0.00	121	0	N.D. d	
17) 2-Methylphenol	0.00	108	0	N.D.	
18) Hexachloroethane	0.00	117	0	N.D.	
19) N-Nitrosodi-n-propylamine	0.00	70	0	N.D.	
20) 3&4-Methyl phenol	0.00	107	0	N.D. d	
21) Acetophenone	5.85	105	53636	1991.9772425 ppb	99
24) Nitrobenzene	0.00	77	0	N.D. d	
25) Isophorone	0.00	82	0	N.D.	
26) 2-Nitrophenol	0.00	139	0	N.D.	
27) 2,4-Dimethylphenol	0.00	107	0	N.D.	
28) bis(2-Chlorethoxy)methane	0.00	93	0	N.D.	
29) 2,4-Dichlorophenol	0.00	162	0	N.D.	
30) Benzoic Acid	6.38	105	13869	2251.1516290 ppb	99
31) 1,2,4-Trichlorobenzene	0.00	180	0	N.D. d	
32) Naphthalene	0.00	128	0	N.D. d	
33) 4-Chloroaniline	0.00	65	0	N.D. d	
34) Hexachloro-1,3-butadiene	0.00	225	0	N.D.	
35) Caprolactam	7.15	113	10278	1999.4867841 ppb	98
36) 4-Chloro-3-methylphenol	0.00	107	0	N.D.	
37) 2-Methylnaphthalene	0.00	142	0	N.D.	
38) 1-Methylnaphthalene	0.00	142	0	N.D. d	

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\111214\1112 16.D Vial: 14
Acq On : 12 Nov 2014 3:56 pm Operator: 280
Sample : STD TCL 2K1 PPB 14G21532 Inst : BNAMS11
Misc : 8270 TCL Calibration Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Nov 12 20:31 2014 Quant Results File: S811K12N.RES

Quant Method : C:\MSDCHEM\1\METHODS\S811K12N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Wed Nov 12 20:29:31 2014
Response via : Initial Calibration
DataAcq Meth : BNA11A

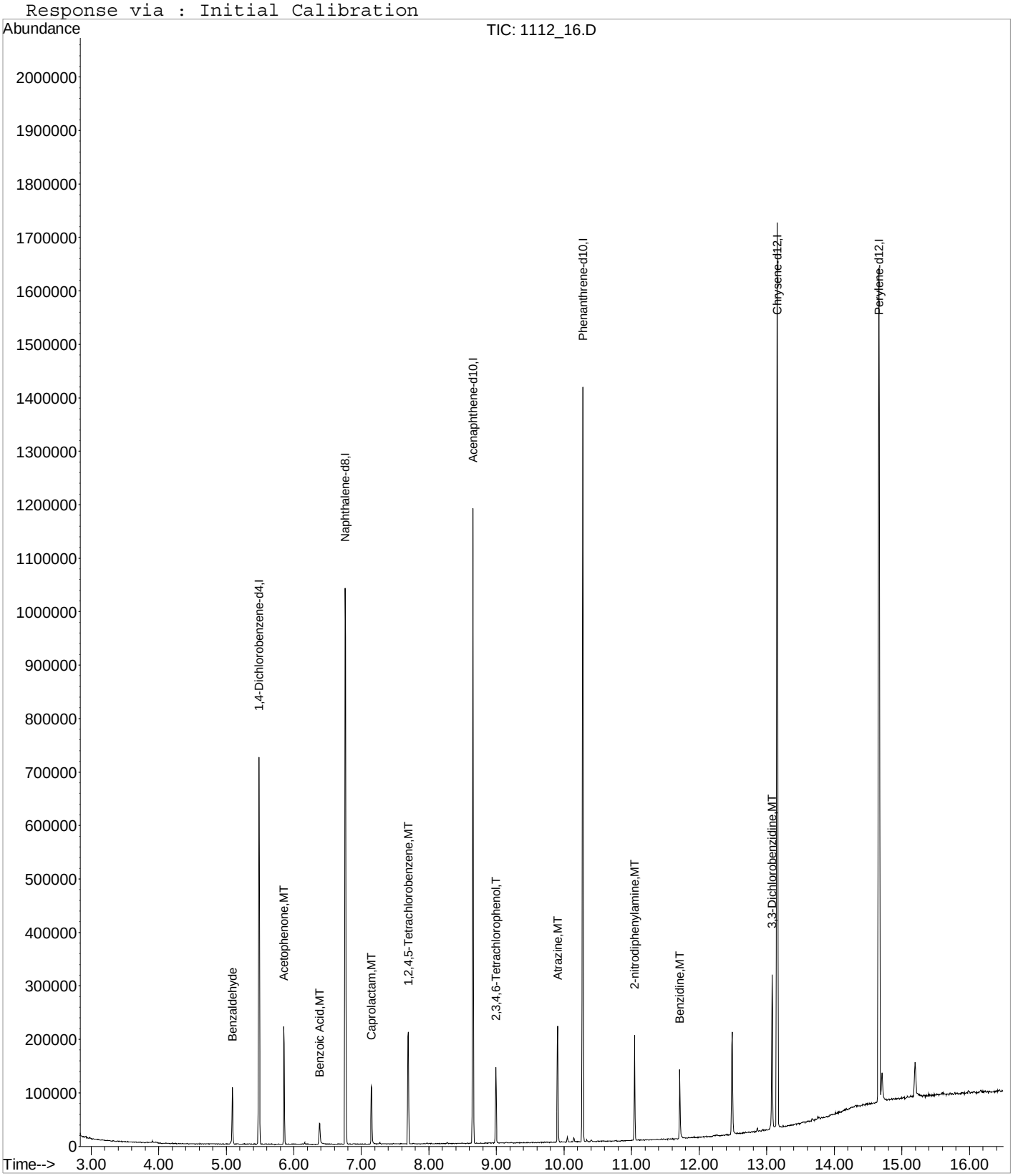
	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
39)	1,2,4,5-Tetrachlorobenzene	7.70	216	33601	1994.3294743 ppb	99
41)	Hexachlorocyclopentadiene	0.00	237	0	N.D.	
42)	2,4,6-Trichlorophenol	0.00	196	0	N.D.	
43)	2,4,5-Trichlorophenol	0.00	196	0	N.D.	
45)	Biphenyl	0.00	154	0	N.D.	
46)	2-Chloronaphthalene	0.00	162	0	N.D.	
47)	2-Nitroaniline	0.00	138	0	N.D.	
48)	Acenaphthylene	0.00	152	0	N.D.	
49)	Dimethyl phthalate	0.00	163	0	N.D.	
50)	2,6-Dinitrotoluene	0.00	165	0	N.D.	
51)	3-Nitroaniline	0.00	138	0	N.D.	
52)	Acenaphthene	0.00	153	0	N.D.	
53)	2,4-Dinitrophenol	0.00	184	0	N.D.	
54)	Dibenzofuran	0.00	168	0	N.D. d	
55)	2,4-Dinitrotoluene	0.00	165	0	N.D.	
56)	2,3,4,6-Tetrachlorophenol	8.99	232	15057	2030.8932072 ppb	98
57)	4-Nitrophenol	0.00	139	0	N.D.	
58)	Fluorene	0.00	166	0	N.D.	
59)	4-Chlorophenyl-phenylether	0.00	204	0	N.D.	
60)	Diethyl phthalate	0.00	149	0	N.D.	
61)	4-Nitroaniline	0.00	138	0	N.D.	
62)	Azobenzene	0.00	77	0	N.D.	
63)	Atrazine	9.91	200	21687	2035.1728121 ppb	99
65)	4,6-Dinitro-2-methylphenol	0.00	198	0	N.D. d	
66)	N-Nitrosodiphenylamine	0.00	169	0	N.D.	
68)	4-Bromophenyl-phenylether	0.00	248	0	N.D.	
69)	Hexachlorobenzene	0.00	284	0	N.D.	
70)	n-octadecane	0.00	55	0	N.D. d	
71)	Pentachlorophenol	0.00	266	0	N.D. d	
72)	Phenanthrene	0.00	178	0	N.D. d	
73)	Anthracene	0.00	178	0	N.D. d	
74)	Carbazole	0.00	167	0	N.D.	
75)	Di-n-butyl phthalate	0.00	149	0	N.D. d	
76)	2-nitrodiphenylamine	11.04	167	24653	1824.7021626 ppb	95
77)	Fluoranthene	0.00	202	0	N.D.	
79)	Benzidine	11.71	184	54518m	1938.5702215 ppb	
80)	Pyrene	0.00	202	0	N.D.	
82)	Benzylbutyl phthalate	0.00	149	0	N.D.	
83)	3,3-Dichlorobenzidine	13.08	252	66505	2124.4858226 ppb	99
84)	Benzo(a)anthracene	0.00	228	0	N.D. d	
85)	Chrysene	0.00	228	0	N.D. d	
86)	bis(2-Ethylhexyl)phthalate	0.00	149	0	N.D. d	
87)	Di-n-octyl phthalate	0.00	149	0	N.D. d	
89)	Benzo(b)fluoranthene	0.00	252	0	N.D.	
90)	Benzo(k)fluoranthene	0.00	252	0	N.D.	
91)	Benzo(a)pyrene	0.00	252	0	N.D. d	
92)	Indeno(1,2,3-cd)pyrene	0.00	276	0	N.D.	
93)	Dibenz(a,h)anthracene	0.00	278	0	N.D.	
94)	Benzo(g,h,i)perylene	0.00	276	0	N.D.	

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\111214\1112 16.D Vial: 14
Acq On : 12 Nov 2014 3:56 pm Operator: 280
Sample : STD TCL 2K1 PPB 14G21532 Inst : BNAMS11
Misc : 8270 TCL Calibration Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Nov 12 20:31 2014 Quant Results File: S811K12N.RES

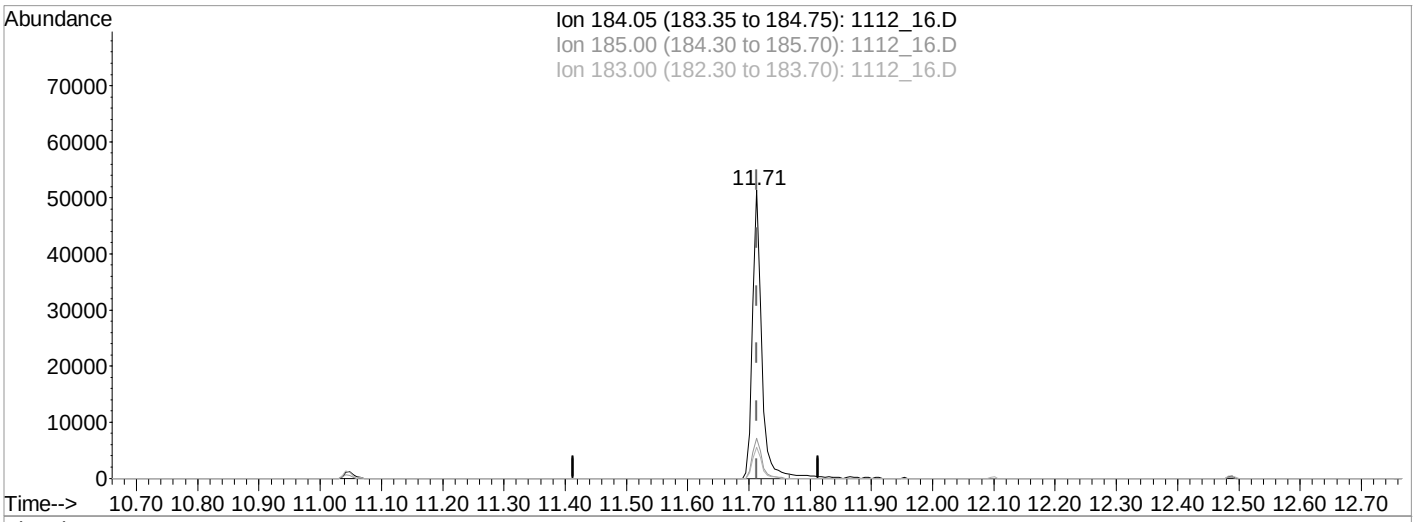
Method : C:\MSDCHEM\1\METHODS\S811K12N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Wed Nov 12 20:49:50 2014
Response via : Initial Calibration

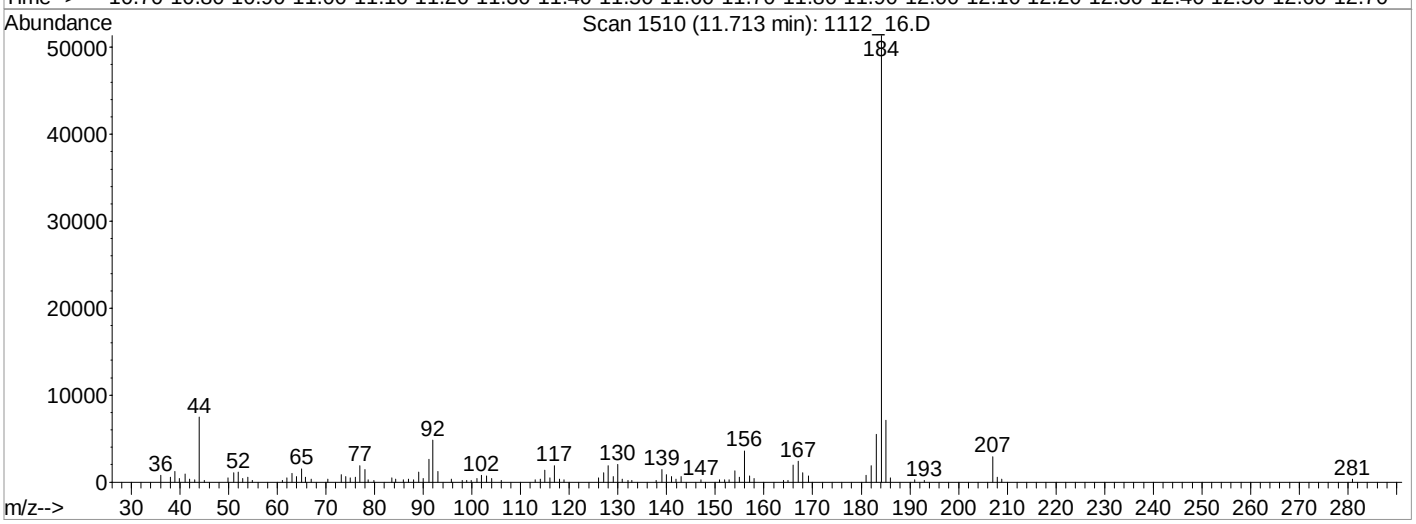


Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\111214\1112 16.D Vial: 14
Acq On : 12 Nov 2014 3:56 pm Operator: 280
Sample : STD TCL 2K PPB 14G21532 Inst : BNAMS11
Misc : 8270 TCL Calibration Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Nov 12 20:30 2014 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\S811K12N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Wed Nov 12 20:29:31 2014
Response via : Single Level Calibration





TIC: 1112_16.D

(79) Benzidine (MT)

11.71min (0.000) 1851.7367265 ppb

Qvalue = 99

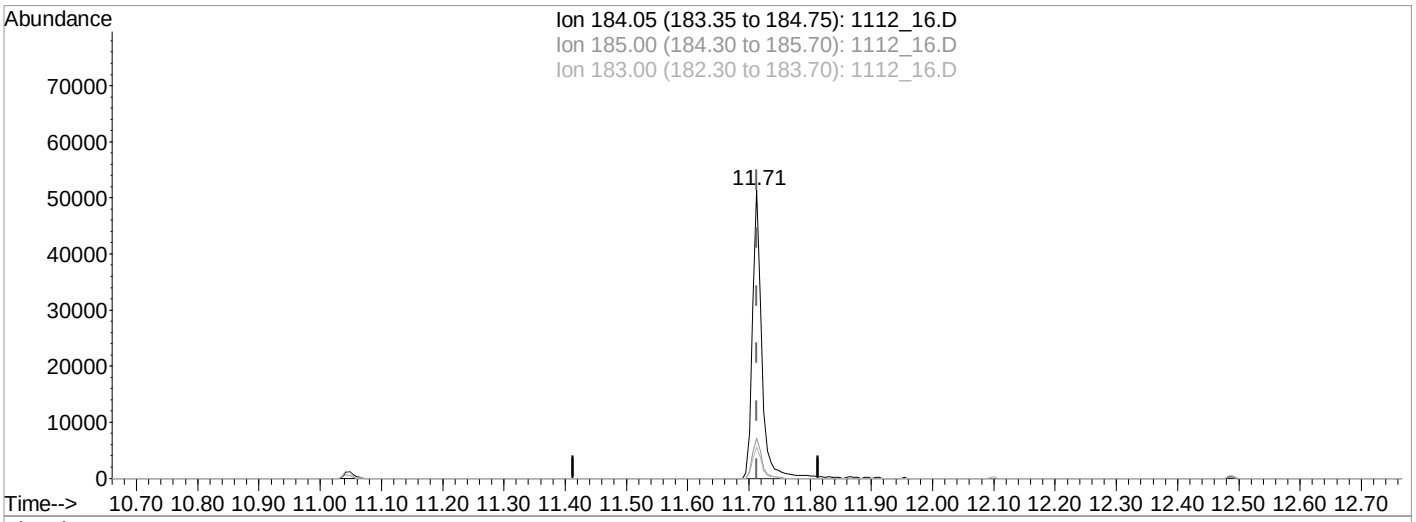
response 52076

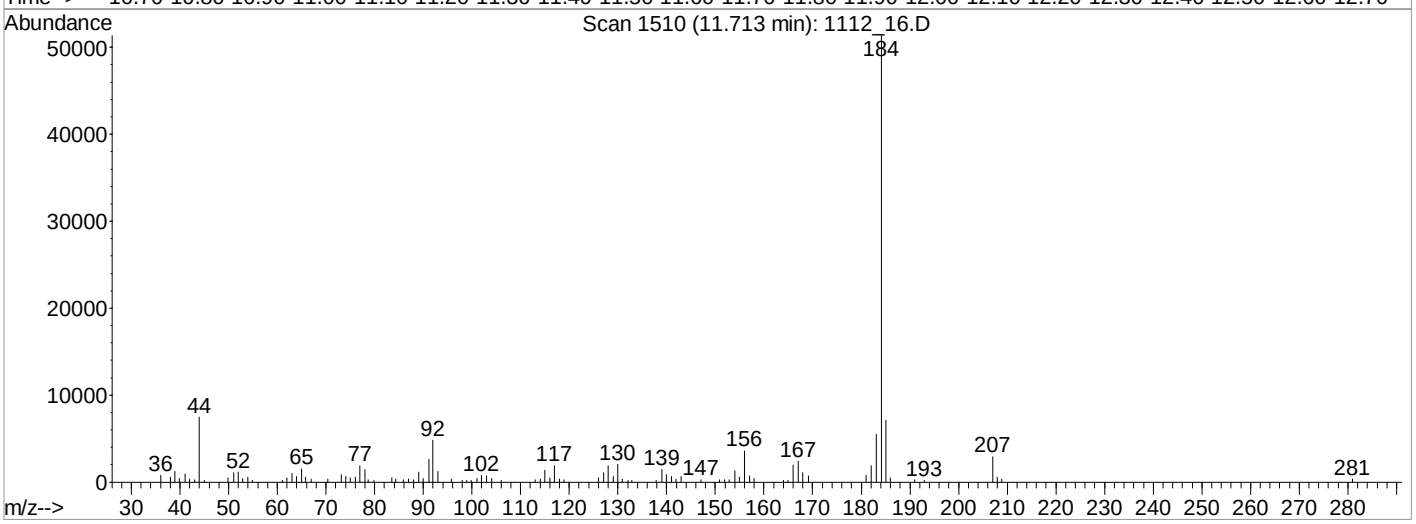
Ion	Exp%	Act%
184.05	100	100
185.00	14.30	14.55
183.00	11.60	11.02
0.00	0.00	0.00

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\111214\1112 16.D Vial: 14
Acq On : 12 Nov 2014 3:56 pm Operator: 280
Sample : STD TCL 2K PPB 14G21532 Inst : BNAMS11
Misc : 8270 TCL Calibration Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Nov 12 20:31 2014 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\S811K12N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Wed Nov 12 20:29:31 2014
Response via : Single Level Calibration





TIC: 1112_16.D

(79) Benzidine (MT)

11.71min (0.000) 1938.5702215 ppb m

response 54518

Ion	Exp%	Act%
184.05	100	100
185.00	14.30	13.89
183.00	11.60	10.53
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\111214\1112 17.D Vial: 15
Acq On : 12 Nov 2014 4:18 pm Operator: 280
Sample : STD TCL 5K1 PPB 14G21532 Inst : BNAMS11
Misc : 8270 TCL Calibration Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Nov 12 20:32 2014 Quant Results File: S811K12N.RES

Quant Method : C:\MSDCHEM\1\METHODS\S811K12N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Wed Nov 12 20:31:18 2014
Response via : Initial Calibration
DataAcq Meth : BNA11A

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	5.48	152	93382	8000.00 ppb	0.00
22) Naphthalene-d8	6.76	136	408467	8000.00 ppb	0.00
40) Acenaphthene-d10	8.65	164	247254	8000.00 ppb	0.00
64) Phenanthrene-d10	10.28	188	442214	8000.00 ppb	0.00
78) Chrysene-d12	13.15	240	547861	8000.00 ppb	-0.02
88) Perylene-d12	14.66	264	644786	8000.00 ppb	-0.05

System Monitoring Compounds

4) 2-Fluorophenol	0.00	112	0	0.0000000 ppb	
Spiked Amount 20.000	Range 10 - 74		Recovery = 0.00%#		
7) Phenol-d5	0.00	99	0	0.0000000 ppb	
Spiked Amount 20.000	Range 10 - 63		Recovery = 0.00%#		
23) Nitrobenzene-d5	0.00	82	0d	0.0000000 ppb	
Spiked Amount 10.000	Range 28 - 123		Recovery = 0.00%#		
44) 2-Fluorobiphenyl	0.00	172	0d	0.0000000 ppb	
Spiked Amount 10.000	Range 35 - 133		Recovery = 0.00%#		
67) 2,4,6-Tribromophenol	0.00	330	0	0.0000000 ppb	
Spiked Amount 20.000	Range 22 - 154		Recovery = 0.00%#		
81) p-Terphenyl-d14	0.00	244	0	0.0000000 ppb	
Spiked Amount 10.000	Range 30 - 148		Recovery = 0.00%#		

Target Compounds

					Qvalue
2) Pyridine	0.00	79	0	N.D.	
3) N-Nitrosodimethylamine	0.00	42	0	N.D. d	
5) Aniline	0.00	66	0	N.D.	
6) bis(2-Chloroethyl)ether	0.00	63	0	N.D. d	
8) Phenol	0.00	94	0	N.D.	
9) Benzaldehyde	5.09	105	44249	4946.6785091 ppb	97
10) 2-Chlorophenol	0.00	128	0	N.D.	
11) n-Decane	0.00	41	0	N.D. d	
12) 1,3-Dichlorobenzene	0.00	146	0	N.D.	
13) 1,4-Dichlorobenzene	0.00	146	0	N.D.	
14) Benzyl Alcohol	0.00	79	0	N.D.	
15) 1,2-Dichlorobenzene	0.00	146	0	N.D.	
16) bis(2-Chloroisopropyl)ethe	0.00	121	0	N.D. d	
17) 2-Methylphenol	0.00	108	0	N.D.	
18) Hexachloroethane	0.00	117	0	N.D.	
19) N-Nitrosodi-n-propylamine	0.00	70	0	N.D.	
20) 3&4-Methyl phenol	0.00	107	0	N.D. d	
21) Acetophenone	5.85	105	135970	5090.9384615 ppb	99
24) Nitrobenzene	0.00	77	0	N.D. d	
25) Isophorone	0.00	82	0	N.D.	
26) 2-Nitrophenol	0.00	139	0	N.D.	
27) 2,4-Dimethylphenol	0.00	107	0	N.D. d	
28) bis(2-Chlorethoxy)methane	0.00	93	0	N.D. d	
29) 2,4-Dichlorophenol	0.00	162	0	N.D.	
30) Benzoic Acid	6.41	105	45807	7321.8508496 ppb	99
31) 1,2,4-Trichlorobenzene	0.00	180	0	N.D. d	
32) Naphthalene	0.00	128	0	N.D. d	
33) 4-Chloroaniline	0.00	65	0	N.D. d	
34) Hexachloro-1,3-butadiene	0.00	225	0	N.D.	
35) Caprolactam	7.16	113	26876	5310.7569680 ppb	96
36) 4-Chloro-3-methylphenol	0.00	107	0	N.D.	
37) 2-Methylnaphthalene	0.00	142	0	N.D.	
38) 1-Methylnaphthalene	0.00	142	0	N.D. d	

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\111214\1112 17.D Vial: 15
Acq On : 12 Nov 2014 4:18 pm Operator: 280
Sample : STD TCL 5K1 PPB 14G21532 Inst : BNAMS11
Misc : 8270 TCL Calibration Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Nov 12 20:32 2014 Quant Results File: S811K12N.RES

Quant Method : C:\MSDCHEM\1\METHODS\S811K12N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Wed Nov 12 20:31:18 2014
Response via : Initial Calibration
DataAcq Meth : BNA11A

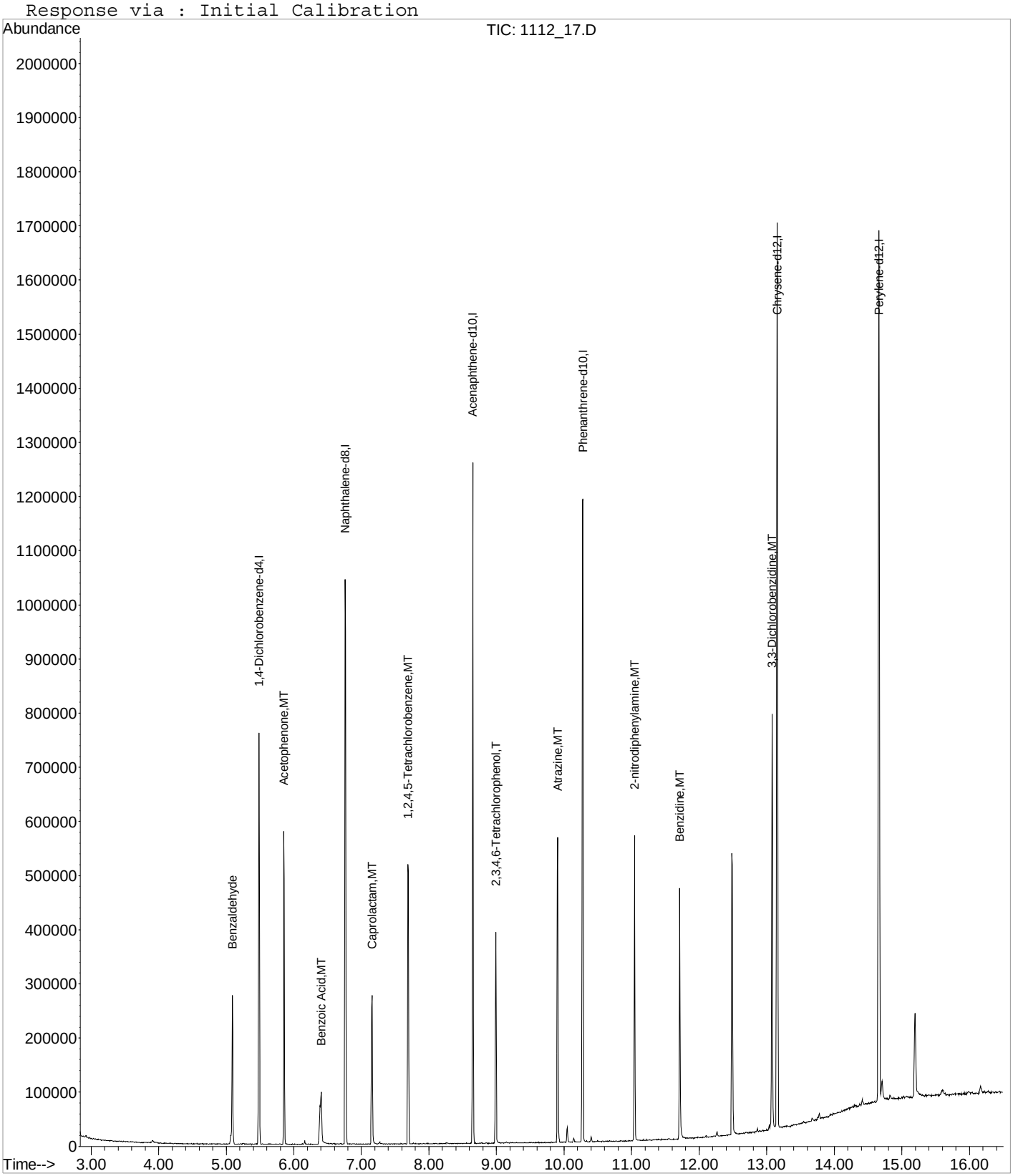
	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
39)	1,2,4,5-Tetrachlorobenzene	7.70	216	81974	4945.1877560 ppb	99
41)	Hexachlorocyclopentadiene	0.00	237	0	N.D.	
42)	2,4,6-Trichlorophenol	0.00	196	0	N.D.	
43)	2,4,5-Trichlorophenol	0.00	196	0	N.D.	
45)	Biphenyl	0.00	154	0	N.D.	
46)	2-Chloronaphthalene	0.00	162	0	N.D.	
47)	2-Nitroaniline	0.00	138	0	N.D.	
48)	Acenaphthylene	0.00	152	0	N.D.	
49)	Dimethyl phthalate	0.00	163	0	N.D.	
50)	2,6-Dinitrotoluene	0.00	165	0	N.D.	
51)	3-Nitroaniline	0.00	138	0	N.D.	
52)	Acenaphthene	0.00	153	0	N.D.	
53)	2,4-Dinitrophenol	0.00	184	0	N.D.	
54)	Dibenzofuran	0.00	168	0	N.D. d	
55)	2,4-Dinitrotoluene	0.00	165	0	N.D.	
56)	2,3,4,6-Tetrachlorophenol	8.99	232	38543	5228.3337109 ppb	96
57)	4-Nitrophenol	0.00	139	0	N.D.	
58)	Fluorene	0.00	166	0	N.D.	
59)	4-Chlorophenyl-phenylether	0.00	204	0	N.D.	
60)	Diethyl phthalate	0.00	149	0	N.D.	
61)	4-Nitroaniline	0.00	138	0	N.D.	
62)	Azobenzene	0.00	77	0	N.D.	
63)	Atrazine	9.91	200	55214	5208.2137649 ppb	99
65)	4,6-Dinitro-2-methylphenol	0.00	198	0	N.D. d	
66)	N-Nitrosodiphenylamine	0.00	169	0	N.D.	
68)	4-Bromophenyl-phenylether	0.00	248	0	N.D.	
69)	Hexachlorobenzene	0.00	284	0	N.D.	
70)	n-octadecane	0.00	55	0	N.D. d	
71)	Pentachlorophenol	0.00	266	0	N.D. d	
72)	Phenanthrene	0.00	178	0	N.D. d	
73)	Anthracene	0.00	178	0	N.D. d	
74)	Carbazole	0.00	167	0	N.D.	
75)	Di-n-butyl phthalate	0.00	149	0	N.D. d	
76)	2-nitrodiphenylamine	11.04	167	71410	5574.8337492 ppb	96
77)	Fluoranthene	0.00	202	0	N.D.	
79)	Benzidine	11.71	184	177904	6595.3920511 ppb	99
80)	Pyrene	0.00	202	0	N.D.	
82)	Benzylbutyl phthalate	0.00	149	0	N.D. d	
83)	3,3-Dichlorobenzidine	13.08	252	165047	5371.1448100 ppb	100
84)	Benzo(a)anthracene	0.00	228	0	N.D. d	
85)	Chrysene	0.00	228	0	N.D. d	
86)	bis(2-Ethylhexyl)phthalate	0.00	149	0	N.D. d	
87)	Di-n-octyl phthalate	0.00	149	0	N.D. d	
89)	Benzo(b)fluoranthene	0.00	252	0	N.D.	
90)	Benzo(k)fluoranthene	0.00	252	0	N.D.	
91)	Benzo(a)pyrene	0.00	252	0	N.D. d	
92)	Indeno(1,2,3-cd)pyrene	0.00	276	0	N.D.	
93)	Dibenz(a,h)anthracene	0.00	278	0	N.D.	
94)	Benzo(g,h,i)perylene	0.00	276	0	N.D.	

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\111214\1112 17.D Vial: 15
Acq On : 12 Nov 2014 4:18 pm Operator: 280
Sample : STD TCL 5K1 PPB 14G21532 Inst : BNAMS11
Misc : 8270 TCL Calibration Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Nov 12 20:32 2014 Quant Results File: S811K12N.RES

Method : C:\MSDCHEM\1\METHODS\S811K12N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Wed Nov 12 20:49:50 2014
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\111214\1112 18.D Vial: 16
Acq On : 12 Nov 2014 4:39 pm Operator: 280
Sample : STD TCL 20K1 PPB 14G21532 Inst : BNAMS11
Misc : 8270 TCL Calibration Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Nov 12 20:33 2014 Quant Results File: S811K12N.RES

Quant Method : C:\MSDCHEM\1\METHODS\S811K12N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Wed Nov 12 20:32:25 2014
Response via : Initial Calibration
DataAcq Meth : BNA11A

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	5.48	152	95829	8000.00 ppb	0.00
22) Naphthalene-d8	6.77	136	414600	8000.00 ppb	0.00
40) Acenaphthene-d10	8.65	164	245421	8000.00 ppb	0.00
64) Phenanthrene-d10	10.28	188	456324	8000.00 ppb	0.00
78) Chrysene-d12	13.15	240	553983	8000.00 ppb	-0.02
88) Perylene-d12	14.67	264	662691	8000.00 ppb	-0.05

System Monitoring Compounds

4) 2-Fluorophenol	0.00	112	0	0.0000000 ppb	
Spiked Amount 20.000	Range 10 - 74		Recovery = 0.00%#		
7) Phenol-d5	0.00	99	0	0.0000000 ppb	
Spiked Amount 20.000	Range 10 - 63		Recovery = 0.00%#		
23) Nitrobenzene-d5	0.00	82	0d	0.0000000 ppb	
Spiked Amount 10.000	Range 28 - 123		Recovery = 0.00%#		
44) 2-Fluorobiphenyl	0.00	172	0d	0.0000000 ppb	
Spiked Amount 10.000	Range 35 - 133		Recovery = 0.00%#		
67) 2,4,6-Tribromophenol	0.00	330	0	0.0000000 ppb	
Spiked Amount 20.000	Range 22 - 154		Recovery = 0.00%#		
81) p-Terphenyl-d14	0.00	244	0	0.0000000 ppb	
Spiked Amount 10.000	Range 30 - 148		Recovery = 0.00%#		

Target Compounds

					Qvalue
2) Pyridine	0.00	79	0	N.D.	
3) N-Nitrosodimethylamine	0.00	42	0	N.D. d	
5) Aniline	0.00	66	0	N.D. d	
6) bis(2-Chloroethyl)ether	0.00	63	0	N.D. d	
8) Phenol	0.00	94	0	N.D. d	
9) Benzaldehyde	5.09	105	183615	20045.2684103 ppb	98
10) 2-Chlorophenol	0.00	128	0	N.D.	
11) n-Decane	0.00	41	0	N.D. d	
12) 1,3-Dichlorobenzene	0.00	146	0	N.D.	
13) 1,4-Dichlorobenzene	0.00	146	0	N.D.	
14) Benzyl Alcohol	0.00	79	0	N.D.	
15) 1,2-Dichlorobenzene	0.00	146	0	N.D.	
16) bis(2-Chloroisopropyl)ethe	0.00	121	0	N.D. d	
17) 2-Methylphenol	0.00	108	0	N.D.	
18) Hexachloroethane	0.00	117	0	N.D.	
19) N-Nitrosodi-n-propylamine	0.00	70	0	N.D.	
20) 3&4-Methyl phenol	0.00	107	0	N.D. d	
21) Acetophenone	5.86	105	529573	19251.7362376 ppb	99
24) Nitrobenzene	0.00	77	0	N.D. d	
25) Isophorone	0.00	82	0	N.D.	
26) 2-Nitrophenol	0.00	139	0	N.D.	
27) 2,4-Dimethylphenol	0.00	107	0	N.D. d	
28) bis(2-Chlorethoxy)methane	0.00	93	0	N.D. d	
29) 2,4-Dichlorophenol	0.00	162	0	N.D.	
30) Benzoic Acid	6.45	105	249119	35896.6111278 ppb	100
31) 1,2,4-Trichlorobenzene	0.00	180	0	N.D. d	
32) Naphthalene	0.00	128	0	N.D. d	
33) 4-Chloroaniline	0.00	65	0	N.D. d	
34) Hexachloro-1,3-butadiene	0.00	225	0	N.D.	
35) Caprolactam	7.18	113	111977	21531.9407474 ppb	98
36) 4-Chloro-3-methylphenol	0.00	107	0	N.D.	
37) 2-Methylnaphthalene	0.00	142	0	N.D.	
38) 1-Methylnaphthalene	0.00	142	0	N.D. d	

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\111214\1112 18.D Vial: 16
Acq On : 12 Nov 2014 4:39 pm Operator: 280
Sample : STD TCL 20K1 PPB 14G21532 Inst : BNAMS11
Misc : 8270 TCL Calibration Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Nov 12 20:33 2014 Quant Results File: S811K12N.RES

Quant Method : C:\MSDCHEM\1\METHODS\S811K12N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Wed Nov 12 20:32:25 2014
Response via : Initial Calibration
DataAcq Meth : BNA11A

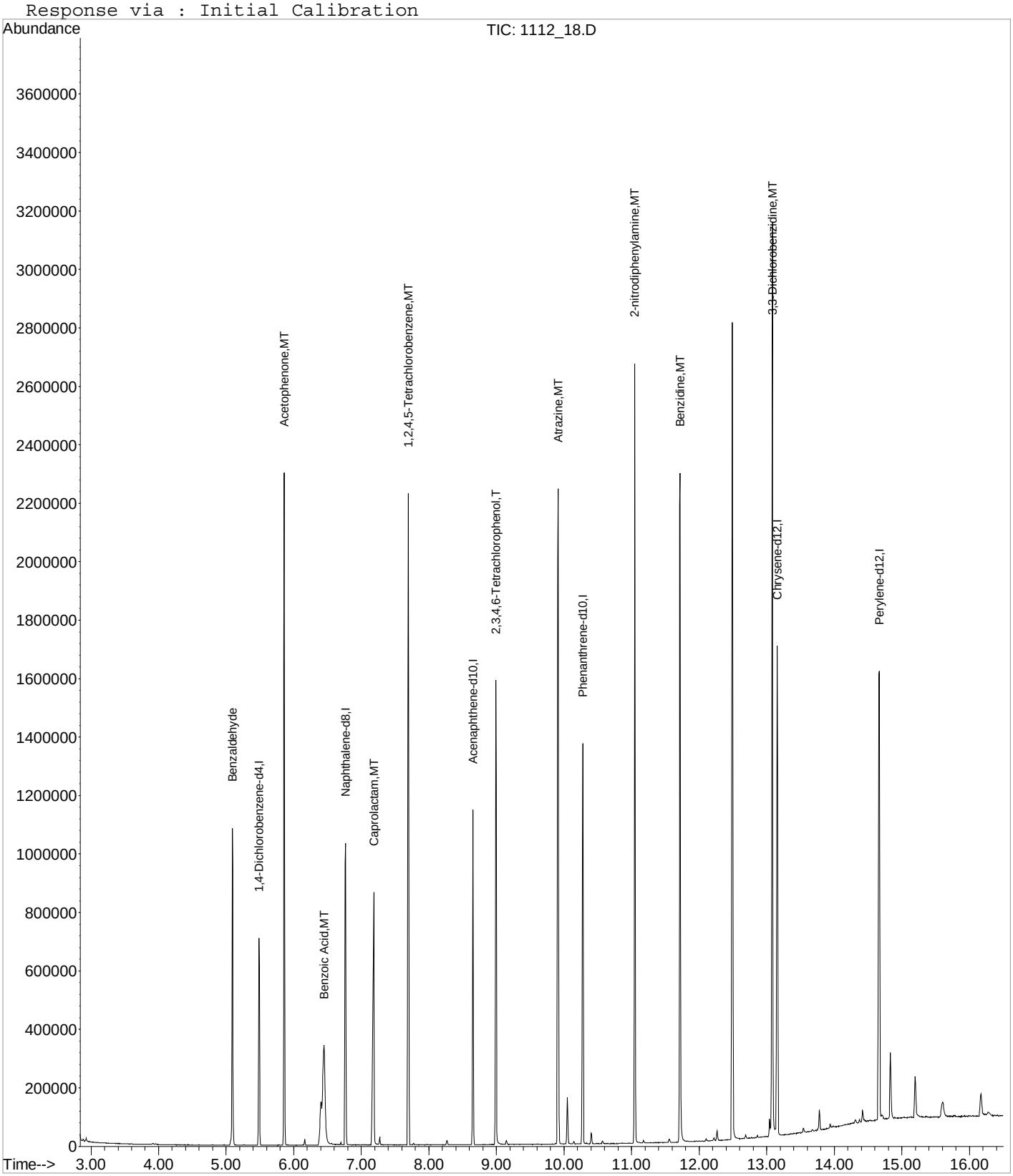
	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
39)	1,2,4,5-Tetrachlorobenzene	7.70	216	327412	19502.1350738 ppb	99
41)	Hexachlorocyclopentadiene	0.00	237	0	N.D.	
42)	2,4,6-Trichlorophenol	0.00	196	0	N.D. d	
43)	2,4,5-Trichlorophenol	0.00	196	0	N.D.	
45)	Biphenyl	0.00	154	0	N.D.	
46)	2-Chloronaphthalene	0.00	162	0	N.D.	
47)	2-Nitroaniline	0.00	138	0	N.D.	
48)	Acenaphthylene	0.00	152	0	N.D.	
49)	Dimethyl phthalate	0.00	163	0	N.D.	
50)	2,6-Dinitrotoluene	0.00	165	0	N.D.	
51)	3-Nitroaniline	0.00	138	0	N.D.	
52)	Acenaphthene	0.00	153	0	N.D.	
53)	2,4-Dinitrophenol	0.00	184	0	N.D.	
54)	Dibenzofuran	0.00	168	0	N.D. d	
55)	2,4-Dinitrotoluene	0.00	165	0	N.D.	
56)	2,3,4,6-Tetrachlorophenol	8.99	232	160730	21766.9598327 ppb	96
57)	4-Nitrophenol	0.00	139	0	N.D.	
58)	Fluorene	0.00	166	0	N.D.	
59)	4-Chlorophenyl-phenylether	0.00	204	0	N.D.	
60)	Diethyl phthalate	0.00	149	0	N.D. d	
61)	4-Nitroaniline	0.00	138	0	N.D.	
62)	Azobenzene	0.00	77	0	N.D. d	
63)	Atrazine	9.91	200	230396	21714.2115940 ppb	96
65)	4,6-Dinitro-2-methylphenol	0.00	198	0	N.D. d	
66)	N-Nitrosodiphenylamine	0.00	169	0	N.D.	
68)	4-Bromophenyl-phenylether	0.00	248	0	N.D.	
69)	Hexachlorobenzene	0.00	284	0	N.D.	
70)	n-octadecane	0.00	55	0	N.D. d	
71)	Pentachlorophenol	0.00	266	0	N.D. d	
72)	Phenanthrene	0.00	178	0	N.D. d	
73)	Anthracene	0.00	178	0	N.D. d	
74)	Carbazole	0.00	167	0	N.D. d	
75)	Di-n-butyl phthalate	0.00	149	0	N.D. d	
76)	2-nitrodiphenylamine	11.05	167	343685	25416.7391497 ppb	97
77)	Fluoranthene	0.00	202	0	N.D.	
79)	Benzidine	11.72	184	890589	30693.0318660 ppb	100
80)	Pyrene	0.00	202	0	N.D.	
82)	Benzylbutyl phthalate	0.00	149	0	N.D. d	
83)	3,3-Dichlorobenzidine	13.08	252	671800	21304.5869625 ppb	99
84)	Benzo(a)anthracene	0.00	228	0	N.D. d	
85)	Chrysene	0.00	228	0	N.D. d	
86)	bis(2-Ethylhexyl)phthalate	0.00	149	0	N.D. d	
87)	Di-n-octyl phthalate	0.00	149	0	N.D. d	
89)	Benzo(b)fluoranthene	0.00	252	0	N.D. d	
90)	Benzo(k)fluoranthene	0.00	252	0	N.D. d	
91)	Benzo(a)pyrene	0.00	252	0	N.D. d	
92)	Indeno(1,2,3-cd)pyrene	0.00	276	0	N.D.	
93)	Dibenz(a,h)anthracene	0.00	278	0	N.D.	
94)	Benzo(g,h,i)perylene	0.00	276	0	N.D.	

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\111214\1112 18.D Vial: 16
Acq On : 12 Nov 2014 4:39 pm Operator: 280
Sample : STD TCL 20K1 PPB 14G21532 Inst : BNAMS11
Misc : 8270 TCL Calibration Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Nov 12 20:33 2014 Quant Results File: S811K12N.RES

Method : C:\MSDCHEM\1\METHODS\S811K12N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Wed Nov 12 20:49:50 2014
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\111214\1112 19.D Vial: 17
Acq On : 12 Nov 2014 5:01 pm Operator: 280
Sample : STD TCL 30K1 PPB 14G21532 Inst : BNAMS11
Misc : 8270 TCL Calibration Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Nov 12 20:34 2014 Quant Results File: S811K12N.RES

Quant Method : C:\MSDCHEM\1\METHODS\S811K12N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Wed Nov 12 20:33:55 2014
Response via : Initial Calibration
DataAcq Meth : BNA11A

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	5.48	152	95412	8000.00 ppb	0.00
22) Naphthalene-d8	6.76	136	411634	8000.00 ppb	0.00
40) Acenaphthene-d10	8.65	164	245245	8000.00 ppb	0.00
64) Phenanthrene-d10	10.28	188	440771	8000.00 ppb	0.00
78) Chrysene-d12	13.15	240	540666	8000.00 ppb	-0.02
88) Perylene-d12	14.66	264	656882	8000.00 ppb	-0.05

System Monitoring Compounds

4) 2-Fluorophenol	0.00	112	0	0.0000000 ppb	
Spiked Amount 20.000	Range 10 - 74		Recovery = 0.00%#		
7) Phenol-d5	0.00	99	0	0.0000000 ppb	
Spiked Amount 20.000	Range 10 - 63		Recovery = 0.00%#		
23) Nitrobenzene-d5	0.00	82	0d	0.0000000 ppb	
Spiked Amount 10.000	Range 28 - 123		Recovery = 0.00%#		
44) 2-Fluorobiphenyl	0.00	172	0d	0.0000000 ppb	
Spiked Amount 10.000	Range 35 - 133		Recovery = 0.00%#		
67) 2,4,6-Tribromophenol	0.00	330	0	0.0000000 ppb	
Spiked Amount 20.000	Range 22 - 154		Recovery = 0.00%#		
81) p-Terphenyl-d14	0.00	244	0	0.0000000 ppb	
Spiked Amount 10.000	Range 30 - 148		Recovery = 0.00%#		

Target Compounds

					Qvalue
2) Pyridine	0.00	79	0	N.D.	
3) N-Nitrosodimethylamine	0.00	42	0	N.D. d	
5) Aniline	0.00	66	0	N.D. d	
6) bis(2-Chloroethyl)ether	0.00	63	0	N.D. d	
8) Phenol	0.00	94	0	N.D. d	
9) Benzaldehyde	5.09	105	285665	31310.5652538 ppb	98
10) 2-Chlorophenol	0.00	128	0	N.D.	
11) n-Decane	0.00	41	0	N.D. d	
12) 1,3-Dichlorobenzene	0.00	146	0	N.D.	
13) 1,4-Dichlorobenzene	0.00	146	0	N.D.	
14) Benzyl Alcohol	0.00	79	0	N.D. d	
15) 1,2-Dichlorobenzene	0.00	146	0	N.D.	
16) bis(2-Chloroisopropyl)ethe	0.00	121	0	N.D. d	
17) 2-Methylphenol	0.00	108	0	N.D. d	
18) Hexachloroethane	0.00	117	0	N.D.	
19) N-Nitrosodi-n-propylamine	0.00	70	0	N.D.	
20) 3&4-Methyl phenol	0.00	107	0	N.D. d	
21) Acetophenone	5.86	105	783750	28795.9966205 ppb	98
24) Nitrobenzene	0.00	77	0	N.D. d	
25) Isophorone	0.00	82	0	N.D.	
26) 2-Nitrophenol	0.00	139	0	N.D.	
27) 2,4-Dimethylphenol	0.00	107	0	N.D. d	
28) bis(2-Chlorethoxy)methane	0.00	93	0	N.D. d	
29) 2,4-Dichlorophenol	0.00	162	0	N.D.	
30) Benzoic Acid	6.47	105	395334	50664.2295583 ppb	100
31) 1,2,4-Trichlorobenzene	0.00	180	0	N.D. d	
32) Naphthalene	0.00	128	0	N.D. d	
33) 4-Chloroaniline	0.00	65	0	N.D. d	
34) Hexachloro-1,3-butadiene	0.00	225	0	N.D.	
35) Caprolactam	7.20	113	167120	31958.8870081 ppb	99
36) 4-Chloro-3-methylphenol	0.00	107	0	N.D.	
37) 2-Methylnaphthalene	0.00	142	0	N.D.	
38) 1-Methylnaphthalene	0.00	142	0	N.D. d	

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\111214\1112 19.D Vial: 17
Acq On : 12 Nov 2014 5:01 pm Operator: 280
Sample : STD TCL 30K1 PPB 14G21532 Inst : BNAMS11
Misc : 8270 TCL Calibration Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Nov 12 20:34 2014 Quant Results File: S811K12N.RES

Quant Method : C:\MSDCHEM\1\METHODS\S811K12N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Wed Nov 12 20:33:55 2014
Response via : Initial Calibration
DataAcq Meth : BNA11A

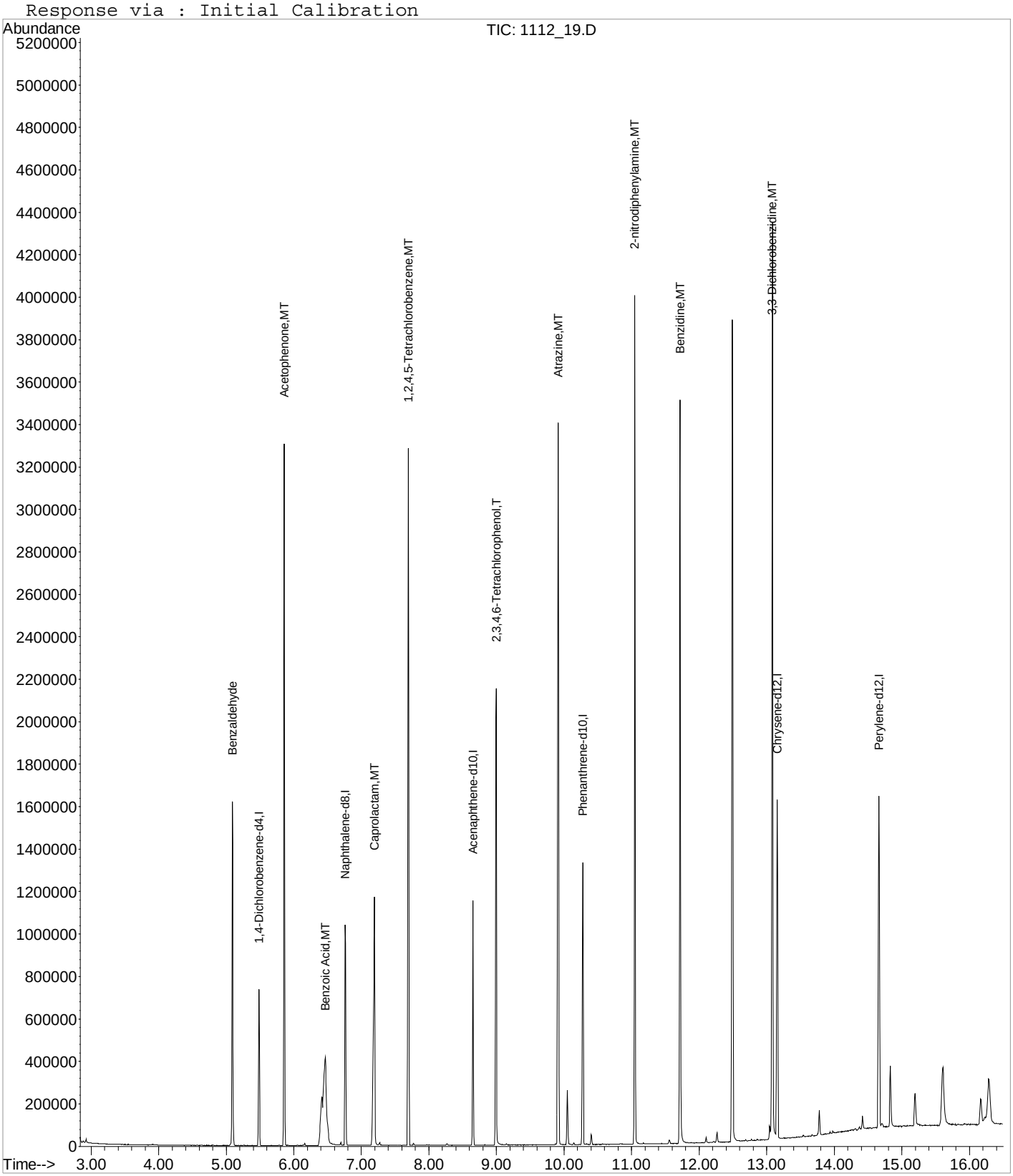
	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
39)	1,2,4,5-Tetrachlorobenzene	7.70	216	479568	28890.9221219 ppb	100
41)	Hexachlorocyclopentadiene	0.00	237	0	N.D.	
42)	2,4,6-Trichlorophenol	0.00	196	0	N.D. d	
43)	2,4,5-Trichlorophenol	0.00	196	0	N.D.	
45)	Biphenyl	0.00	154	0	N.D.	
46)	2-Chloronaphthalene	0.00	162	0	N.D.	
47)	2-Nitroaniline	0.00	138	0	N.D.	
48)	Acenaphthylene	0.00	152	0	N.D.	
49)	Dimethyl phthalate	0.00	163	0	N.D.	
50)	2,6-Dinitrotoluene	0.00	165	0	N.D.	
51)	3-Nitroaniline	0.00	138	0	N.D.	
52)	Acenaphthene	0.00	153	0	N.D.	
53)	2,4-Dinitrophenol	0.00	184	0	N.D.	
54)	Dibenzofuran	0.00	168	0	N.D. d	
55)	2,4-Dinitrotoluene	0.00	165	0	N.D.	
56)	2,3,4,6-Tetrachlorophenol	9.00	232	234004	31252.6936450 ppb	94
57)	4-Nitrophenol	0.00	139	0	N.D.	
58)	Fluorene	0.00	166	0	N.D.	
59)	4-Chlorophenyl-phenylether	0.00	204	0	N.D.	
60)	Diethyl phthalate	0.00	149	0	N.D.	
61)	4-Nitroaniline	0.00	138	0	N.D.	
62)	Azobenzene	0.00	77	0	N.D. d	
63)	Atrazine	9.91	200	341024	31710.6825514 ppb	96
65)	4,6-Dinitro-2-methylphenol	0.00	198	0	N.D. d	
66)	N-Nitrosodiphenylamine	0.00	169	0	N.D.	
68)	4-Bromophenyl-phenylether	0.00	248	0	N.D.	
69)	Hexachlorobenzene	0.00	284	0	N.D.	
70)	n-octadecane	0.00	55	0	N.D. d	
71)	Pentachlorophenol	0.00	266	0	N.D. d	
72)	Phenanthrene	0.00	178	0	N.D. d	
73)	Anthracene	0.00	178	0	N.D. d	
74)	Carbazole	0.00	167	0	N.D. d	
75)	Di-n-butyl phthalate	0.00	149	0	N.D. d	
76)	2-nitrodiphenylamine	11.05	167	521356	38192.6390853 ppb	98
77)	Fluoranthene	0.00	202	0	N.D. d	
79)	Benzidine	11.72	184	1307742	42401.4517896 ppb	100
80)	Pyrene	0.00	202	0	N.D. d	
82)	Benzylbutyl phthalate	0.00	149	0	N.D. d	
83)	3,3-Dichlorobenzidine	13.08	252	979907	31498.4642862 ppb	98
84)	Benzo(a)anthracene	0.00	228	0	N.D. d	
85)	Chrysene	0.00	228	0	N.D. d	
86)	bis(2-Ethylhexyl)phthalate	0.00	149	0	N.D. d	
87)	Di-n-octyl phthalate	0.00	149	0	N.D. d	
89)	Benzo(b)fluoranthene	0.00	252	0	N.D. d	
90)	Benzo(k)fluoranthene	0.00	252	0	N.D. d	
91)	Benzo(a)pyrene	0.00	252	0	N.D. d	
92)	Indeno(1,2,3-cd)pyrene	0.00	276	0	N.D. d	
93)	Dibenz(a,h)anthracene	0.00	278	0	N.D. d	
94)	Benzo(g,h,i)perylene	0.00	276	0	N.D. d	

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\111214\1112 19.D Vial: 17
Acq On : 12 Nov 2014 5:01 pm Operator: 280
Sample : STD TCL 30K1 PPB 14G21532 Inst : BNAMS11
Misc : 8270 TCL Calibration Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Nov 12 20:34 2014 Quant Results File: S811K12N.RES

Method : C:\MSDCHEM\1\METHODS\S811K12N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Wed Nov 12 20:49:50 2014
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\111214\1112 20.D Vial: 18
Acq On : 12 Nov 2014 5:22 pm Operator: 280
Sample : STD TCL 40K1 PPB 14G21532 Inst : BNAMS11
Misc : 8270 TCL Calibration Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Nov 12 20:36 2014 Quant Results File: S811K12N.RES

Quant Method : C:\MSDCHEM\1\METHODS\S811K12N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Wed Nov 12 20:35:31 2014
Response via : Initial Calibration
DataAcq Meth : BNA11A

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	5.48	152	101568	8000.00 ppb	0.00
22) Naphthalene-d8	6.77	136	436360	8000.00 ppb	0.00
40) Acenaphthene-d10	8.65	164	262791	8000.00 ppb	0.00
64) Phenanthrene-d10	10.28	188	482533	8000.00 ppb	0.00
78) Chrysene-d12	13.15	240	587932	8000.00 ppb	-0.02
88) Perylene-d12	14.67	264	730887	8000.00 ppb	-0.05

System Monitoring Compounds

4) 2-Fluorophenol	0.00	112	0	0.0000000 ppb	
Spiked Amount 20.000	Range 10 - 74		Recovery = 0.00%#		
7) Phenol-d5	0.00	99	0	0.0000000 ppb	
Spiked Amount 20.000	Range 10 - 63		Recovery = 0.00%#		
23) Nitrobenzene-d5	0.00	82	0d	0.0000000 ppb	
Spiked Amount 10.000	Range 28 - 123		Recovery = 0.00%#		
44) 2-Fluorobiphenyl	0.00	172	0d	0.0000000 ppb	
Spiked Amount 10.000	Range 35 - 133		Recovery = 0.00%#		
67) 2,4,6-Tribromophenol	0.00	330	0	0.0000000 ppb	
Spiked Amount 20.000	Range 22 - 154		Recovery = 0.00%#		
81) p-Terphenyl-d14	0.00	244	0d	0.0000000 ppb	
Spiked Amount 10.000	Range 30 - 148		Recovery = 0.00%#		

Target Compounds

					Qvalue
2) Pyridine	0.00	79	0	N.D.	
3) N-Nitrosodimethylamine	0.00	42	0	N.D. d	
5) Aniline	0.00	66	0	N.D. d	
6) bis(2-Chloroethyl)ether	0.00	63	0	N.D. d	
8) Phenol	0.00	94	0	N.D. d	
9) Benzaldehyde	5.10	105	402774	41213.4987219 ppb	99
10) 2-Chlorophenol	0.00	128	0	N.D.	
11) n-Decane	0.00	41	0	N.D. d	
12) 1,3-Dichlorobenzene	0.00	146	0	N.D.	
13) 1,4-Dichlorobenzene	0.00	146	0	N.D.	
14) Benzyl Alcohol	0.00	79	0	N.D.	
15) 1,2-Dichlorobenzene	0.00	146	0	N.D.	
16) bis(2-Chloroisopropyl)ethe	0.00	121	0	N.D. d	
17) 2-Methylphenol	0.00	108	0	N.D. d	
18) Hexachloroethane	0.00	117	0	N.D.	
19) N-Nitrosodi-n-propylamine	0.00	70	0	N.D.	
20) 3&4-Methyl phenol	0.00	107	0	N.D. d	
21) Acetophenone	5.86	105	1073840	37276.6918313 ppb	99
24) Nitrobenzene	0.00	77	0	N.D. d	
25) Isophorone	0.00	82	0	N.D. d	
26) 2-Nitrophenol	0.00	139	0	N.D.	
27) 2,4-Dimethylphenol	0.00	107	0	N.D. d	
28) bis(2-Chlorethoxy)methane	0.00	93	0	N.D. d	
29) 2,4-Dichlorophenol	0.00	162	0	N.D.	
30) Benzoic Acid	6.48	105	585778	64472.6739788 ppb	99
31) 1,2,4-Trichlorobenzene	0.00	180	0	N.D. d	
32) Naphthalene	0.00	128	0	N.D. d	
33) 4-Chloroaniline	0.00	65	0	N.D. d	
34) Hexachloro-1,3-butadiene	0.00	225	0	N.D.	
35) Caprolactam	7.21	113	240095	42912.1531154 ppb	99
36) 4-Chloro-3-methylphenol	0.00	107	0	N.D.	
37) 2-Methylnaphthalene	0.00	142	0	N.D.	
38) 1-Methylnaphthalene	0.00	142	0	N.D. d	

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\111214\1112 20.D Vial: 18
Acq On : 12 Nov 2014 5:22 pm Operator: 280
Sample : STD TCL 40K1 PPB 14G21532 Inst : BNAMS11
Misc : 8270 TCL Calibration Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Nov 12 20:36 2014 Quant Results File: S811K12N.RES

Quant Method : C:\MSDCHEM\1\METHODS\S811K12N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Wed Nov 12 20:35:31 2014
Response via : Initial Calibration
DataAcq Meth : BNA11A

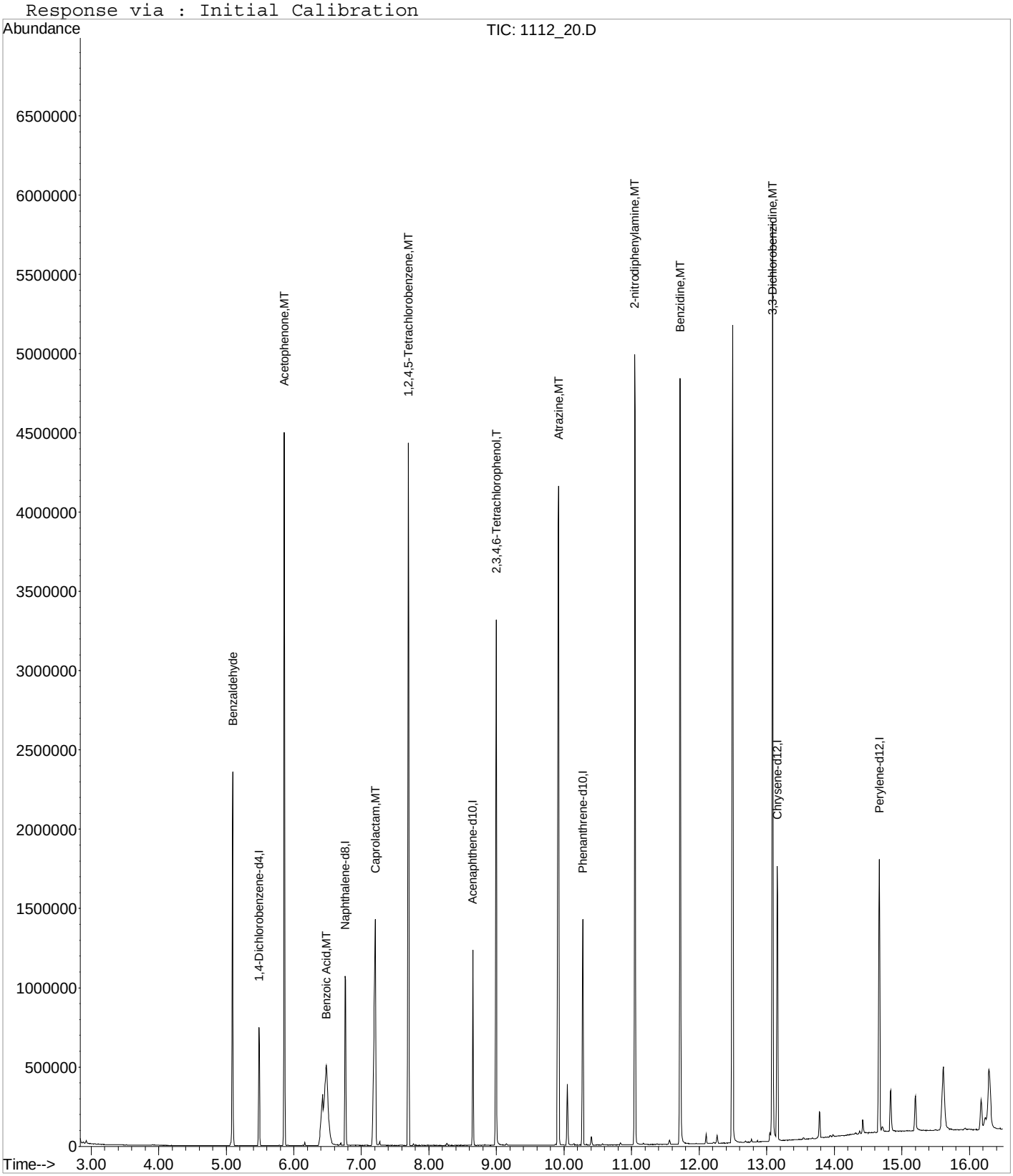
	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
39)	1,2,4,5-Tetrachlorobenzene	7.70	216	674842	38554.8790457 ppb	100
41)	Hexachlorocyclopentadiene	0.00	237	0	N.D.	
42)	2,4,6-Trichlorophenol	0.00	196	0	N.D. d	
43)	2,4,5-Trichlorophenol	0.00	196	0	N.D.	
45)	Biphenyl	0.00	154	0	N.D.	
46)	2-Chloronaphthalene	0.00	162	0	N.D.	
47)	2-Nitroaniline	0.00	138	0	N.D.	
48)	Acenaphthylene	0.00	152	0	N.D.	
49)	Dimethyl phthalate	0.00	163	0	N.D.	
50)	2,6-Dinitrotoluene	0.00	165	0	N.D.	
51)	3-Nitroaniline	0.00	138	0	N.D.	
52)	Acenaphthene	0.00	153	0	N.D.	
53)	2,4-Dinitrophenol	0.00	184	0	N.D.	
54)	Dibenzofuran	0.00	168	0	N.D. d	
55)	2,4-Dinitrotoluene	0.00	165	0	N.D.	
56)	2,3,4,6-Tetrachlorophenol	9.00	232	347244	43023.4900924 ppb	95
57)	4-Nitrophenol	0.00	139	0	N.D.	
58)	Fluorene	0.00	166	0	N.D. d	
59)	4-Chlorophenyl-phenylether	0.00	204	0	N.D.	
60)	Diethyl phthalate	0.00	149	0	N.D.	
61)	4-Nitroaniline	0.00	138	0	N.D.	
62)	Azobenzene	0.00	77	0	N.D. d	
63)	Atrazine	9.92	200	487729	41982.2220979 ppb	98
65)	4,6-Dinitro-2-methylphenol	0.00	198	0	N.D. d	
66)	N-Nitrosodiphenylamine	0.00	169	0	N.D.	
68)	4-Bromophenyl-phenylether	0.00	248	0	N.D.	
69)	Hexachlorobenzene	0.00	284	0	N.D.	
70)	n-octadecane	0.00	55	0	N.D. d	
71)	Pentachlorophenol	0.00	266	0	N.D. d	
72)	Phenanthrene	0.00	178	0	N.D. d	
73)	Anthracene	0.00	178	0	N.D. d	
74)	Carbazole	0.00	167	0	N.D. d	
75)	Di-n-butyl phthalate	0.00	149	0	N.D. d	
76)	2-nitrodiphenylamine	11.05	167	737193	47477.9204401 ppb	96
77)	Fluoranthene	0.00	202	0	N.D. d	
79)	Benzidine	11.72	184	1835890	51687.9072683 ppb	100
80)	Pyrene	0.00	202	0	N.D. d	
82)	Benzylbutyl phthalate	0.00	149	0	N.D. d	
83)	3,3-Dichlorobenzidine	13.09	252	1382226	40569.3094557 ppb	97
84)	Benzo(a)anthracene	0.00	228	0	N.D. d	
85)	Chrysene	0.00	228	0	N.D. d	
86)	bis(2-Ethylhexyl)phthalate	0.00	149	0	N.D. d	
87)	Di-n-octyl phthalate	0.00	149	0	N.D. d	
89)	Benzo(b)fluoranthene	0.00	252	0	N.D. d	
90)	Benzo(k)fluoranthene	0.00	252	0	N.D. d	
91)	Benzo(a)pyrene	0.00	252	0	N.D. d	
92)	Indeno(1,2,3-cd)pyrene	0.00	276	0	N.D. d	
93)	Dibenz(a,h)anthracene	0.00	278	0	N.D. d	
94)	Benzo(g,h,i)perylene	0.00	276	0	N.D. d	

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\111214\1112 20.D Vial: 18
Acq On : 12 Nov 2014 5:22 pm Operator: 280
Sample : STD TCL 40K1 PPB 14G21532 Inst : BNAMS11
Misc : 8270 TCL Calibration Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Nov 12 20:36 2014 Quant Results File: S811K12N.RES

Method : C:\MSDCHEM\1\METHODS\S811K12N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Wed Nov 12 20:49:50 2014
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\111214\1112 21.D Vial: 19
Acq On : 12 Nov 2014 5:43 pm Operator: 280
Sample : STD TCL 50K1 PPB 14G21532 Inst : BNAMS11
Misc : 8270 TCL Calibration Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Nov 12 20:39 2014 Quant Results File: S811K12N.RES

Quant Method : C:\MSDCHEM\1\METHODS\S811K12N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Wed Nov 12 20:37:11 2014
Response via : Initial Calibration
DataAcq Meth : BNA11A

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	5.48	152	98653	8000.00 ppb	0.00
22) Naphthalene-d8	6.76	136	416217	8000.00 ppb	0.00
40) Acenaphthene-d10	8.65	164	256090	8000.00 ppb	0.00
64) Phenanthrene-d10	10.28	188	460007	8000.00 ppb	0.00
78) Chrysene-d12	13.15	240	567657	8000.00 ppb	-0.02
88) Perylene-d12	14.66	264	686821	8000.00 ppb	-0.05

System Monitoring Compounds

4) 2-Fluorophenol		0.00	112	0	0.0000000 ppb
Spiked Amount	20.000	Range 10 - 74		Recovery =	0.00%#
7) Phenol-d5		0.00	99	0	0.0000000 ppb
Spiked Amount	20.000	Range 10 - 63		Recovery =	0.00%#
23) Nitrobenzene-d5		0.00	82	0d	0.0000000 ppb
Spiked Amount	10.000	Range 28 - 123		Recovery =	0.00%#
44) 2-Fluorobiphenyl		0.00	172	0	0.0000000 ppb
Spiked Amount	10.000	Range 35 - 133		Recovery =	0.00%#
67) 2,4,6-Tribromophenol		0.00	330	0	0.0000000 ppb
Spiked Amount	20.000	Range 22 - 154		Recovery =	0.00%#
81) p-Terphenyl-d14		0.00	244	0d	0.0000000 ppb
Spiked Amount	10.000	Range 30 - 148		Recovery =	0.00%#

Target Compounds

					Qvalue
2) Pyridine	0.00	79	0	N.D.	
3) N-Nitrosodimethylamine	0.00	42	0	N.D. d	
5) Aniline	0.00	66	0	N.D. d	
6) bis(2-Chloroethyl)ether	0.00	63	0	N.D. d	
8) Phenol	0.00	94	0	N.D. d	
9) Benzaldehyde	5.10	105	466738	48983.9735608 ppb	98
10) 2-Chlorophenol	0.00	128	0	N.D.	
11) n-Decane	0.00	41	0	N.D. d	
12) 1,3-Dichlorobenzene	0.00	146	0	N.D.	
13) 1,4-Dichlorobenzene	0.00	146	0	N.D.	
14) Benzyl Alcohol	0.00	79	0	N.D. d	
15) 1,2-Dichlorobenzene	0.00	146	0	N.D.	
16) bis(2-Chloroisopropyl)ethe	0.00	121	0	N.D. d	
17) 2-Methylphenol	0.00	108	0	N.D. d	
18) Hexachloroethane	0.00	117	0	N.D.	
19) N-Nitrosodi-n-propylamine	0.00	70	0	N.D.	
20) 3&4-Methyl phenol	0.00	107	0	N.D. d	
21) Acetophenone	5.86	105	1263891	45558.1228568 ppb	99
24) Nitrobenzene	0.00	77	0	N.D. d	
25) Isophorone	0.00	82	0	N.D. d	
26) 2-Nitrophenol	0.00	139	0	N.D.	
27) 2,4-Dimethylphenol	0.00	107	0	N.D. d	
28) bis(2-Chlorethoxy)methane	0.00	93	0	N.D. d	
29) 2,4-Dichlorophenol	0.00	162	0	N.D.	
30) Benzoic Acid	6.50	105	724696	77681.7159959 ppb	100
31) 1,2,4-Trichlorobenzene	0.00	180	0	N.D. d	
32) Naphthalene	0.00	128	0	N.D. d	
33) 4-Chloroaniline	0.00	65	0	N.D. d	
34) Hexachloro-1,3-butadiene	0.00	225	0	N.D.	
35) Caprolactam	7.21	113	292023	54225.6734591 ppb	100
36) 4-Chloro-3-methylphenol	0.00	107	0	N.D.	
37) 2-Methylnaphthalene	0.00	142	0	N.D.	
38) 1-Methylnaphthalene	0.00	142	0	N.D. d	

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\111214\1112 21.D Vial: 19
Acq On : 12 Nov 2014 5:43 pm Operator: 280
Sample : STD TCL 50K1 PPB 14G21532 Inst : BNAMS11
Misc : 8270 TCL Calibration Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Nov 12 20:39 2014 Quant Results File: S811K12N.RES

Quant Method : C:\MSDCHEM\1\METHODS\S811K12N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Wed Nov 12 20:37:11 2014
Response via : Initial Calibration
DataAcq Meth : BNA11A

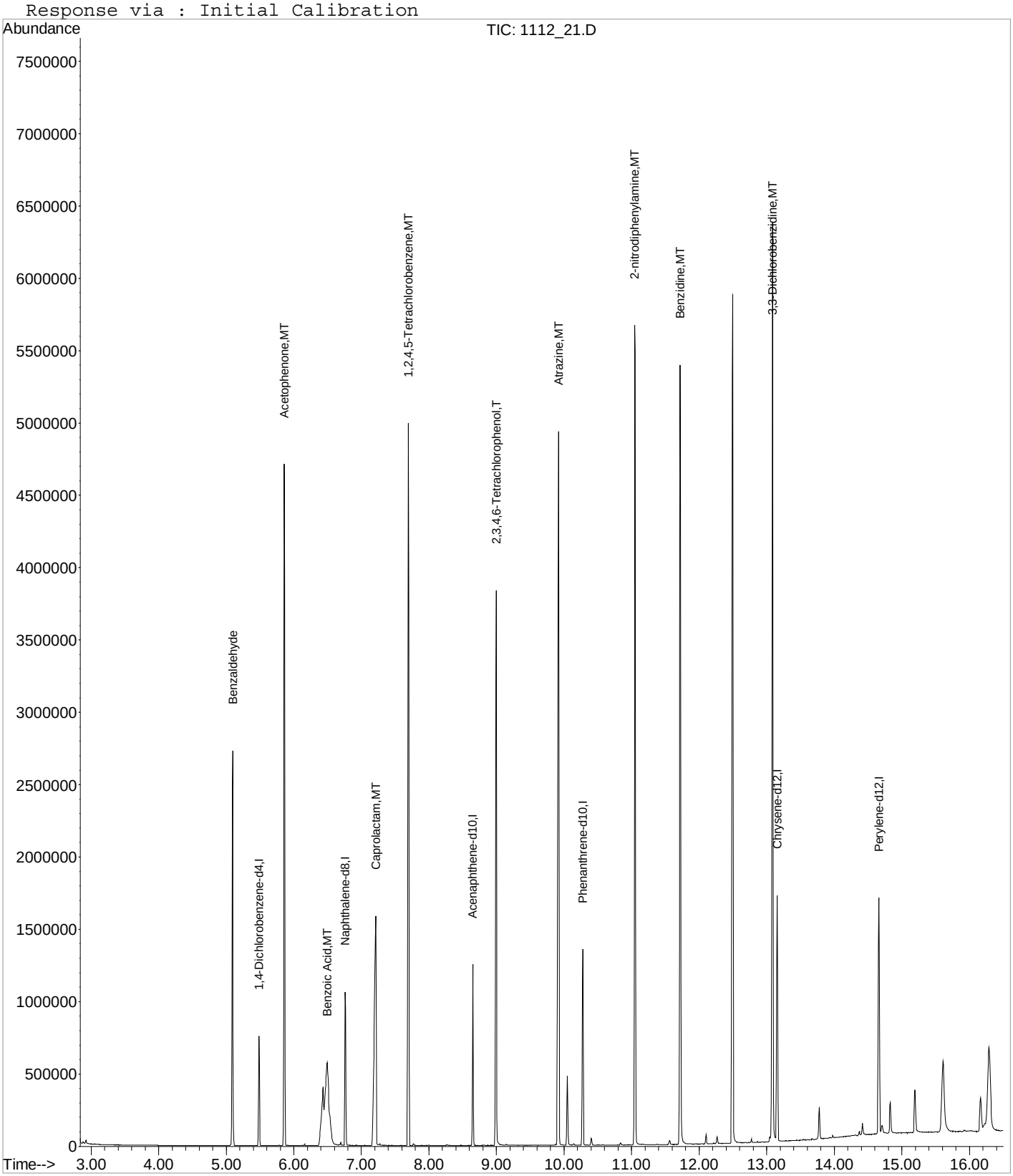
	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
39)	1,2,4,5-Tetrachlorobenzene	7.70	216	798163	48024.1479512 ppb	100
41)	Hexachlorocyclopentadiene	0.00	237	0	N.D.	
42)	2,4,6-Trichlorophenol	0.00	196	0	N.D. d	
43)	2,4,5-Trichlorophenol	0.00	196	0	N.D.	
45)	Biphenyl	0.00	154	0	N.D.	
46)	2-Chloronaphthalene	0.00	162	0	N.D.	
47)	2-Nitroaniline	0.00	138	0	N.D.	
48)	Acenaphthylene	0.00	152	0	N.D.	
49)	Dimethyl phthalate	0.00	163	0	N.D.	
50)	2,6-Dinitrotoluene	0.00	165	0	N.D.	
51)	3-Nitroaniline	0.00	138	0	N.D.	
52)	Acenaphthene	0.00	153	0	N.D. d	
53)	2,4-Dinitrophenol	0.00	184	0	N.D.	
54)	Dibenzofuran	0.00	168	0	N.D. d	
55)	2,4-Dinitrotoluene	0.00	165	0	N.D.	
56)	2,3,4,6-Tetrachlorophenol	9.00	232	420214	52926.7400922 ppb	93
57)	4-Nitrophenol	0.00	139	0	N.D.	
58)	Fluorene	0.00	166	0	N.D.	
59)	4-Chlorophenyl-phenylether	0.00	204	0	N.D.	
60)	Diethyl phthalate	0.00	149	0	N.D. d	
61)	4-Nitroaniline	0.00	138	0	N.D.	
62)	Azobenzene	0.00	77	0	N.D. d	
63)	Atrazine	9.92	200	564826	49583.5337405 ppb	97
65)	4,6-Dinitro-2-methylphenol	0.00	198	0	N.D. d	
66)	N-Nitrosodiphenylamine	0.00	169	0	N.D.	
68)	4-Bromophenyl-phenylether	0.00	248	0	N.D.	
69)	Hexachlorobenzene	0.00	284	0	N.D.	
70)	n-octadecane	0.00	55	0	N.D. d	
71)	Pentachlorophenol	0.00	266	0	N.D. d	
72)	Phenanthrene	0.00	178	0	N.D. d	
73)	Anthracene	0.00	178	0	N.D. d	
74)	Carbazole	0.00	167	0	N.D. d	
75)	Di-n-butyl phthalate	0.00	149	0	N.D. d	
76)	2-nitrodiphenylamine	11.05	167	878918	58021.5569029 ppb	97
77)	Fluoranthene	0.00	202	0	N.D. d	
79)	Benzidine	11.72	184	2176957	61242.5949879 ppb	99
80)	Pyrene	0.00	202	0	N.D. d	
82)	Benzylbutyl phthalate	0.00	149	0	N.D. d	
83)	3,3-Dichlorobenzidine	13.09	252	1610375	48866.8916399 ppb	97
84)	Benzo(a)anthracene	0.00	228	0	N.D. d	
85)	Chrysene	0.00	228	0	N.D. d	
86)	bis(2-Ethylhexyl)phthalate	0.00	149	0	N.D. d	
87)	Di-n-octyl phthalate	0.00	149	0	N.D. d	
89)	Benzo(b)fluoranthene	0.00	252	0	N.D. d	
90)	Benzo(k)fluoranthene	0.00	252	0	N.D. d	
91)	Benzo(a)pyrene	0.00	252	0	N.D. d	
92)	Indeno(1,2,3-cd)pyrene	0.00	276	0	N.D. d	
93)	Dibenz(a,h)anthracene	0.00	278	0	N.D. d	
94)	Benzo(g,h,i)perylene	0.00	276	0	N.D. d	

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\111214\1112 21.D Vial: 19
Acq On : 12 Nov 2014 5:43 pm Operator: 280
Sample : STD TCL 50K1 PPB 14G21532 Inst : BNAMS11
Misc : 8270 TCL Calibration Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Nov 12 20:39 2014 Quant Results File: S811K12N.RES

Method : C:\MSDCHEM\1\METHODS\S811K12N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Wed Nov 12 20:49:50 2014
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\111214\1112 01.D Vial: 10
Acq On : 12 Nov 2014 8:35 am Operator: 280
Sample : PRIME Inst : BNAMS11
Misc : prime Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Nov 12 21:01 2014 Quant Results File: S811K12N.RES

Quant Method : C:\MSDCHEM\1\METHODS\S811K12N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Wed Nov 12 20:49:50 2014
Response via : Initial Calibration
DataAcq Meth : BNA11

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	5.49	152	101977	8000.00 ppb	0.00
22) Naphthalene-d8	6.77	136	443738	8000.00 ppb	0.00
40) Acenaphthene-d10	8.67	164	269502	8000.00 ppb	0.01
64) Phenanthrene-d10	10.29	188	492769	8000.00 ppb	0.00
78) Chrysene-d12	13.19	240	536943	8000.00 ppb	0.02
88) Perylene-d12	14.73	264	700399	8000.00 ppb	0.02

System Monitoring Compounds					
4) 2-Fluorophenol	4.36	112	879114	48484.9840080 ppb	0.01
Spiked Amount 20.000	Range 10 - 74		Recovery = 242424.92%#		
7) Phenol-d5	5.10	99	1143838	46080.3289319 ppb	0.02
Spiked Amount 20.000	Range 10 - 63		Recovery = 230401.64%#		
23) Nitrobenzene-d5	6.02	82	1053385	44103.9263520 ppb	0.01
Spiked Amount 10.000	Range 28 - 123		Recovery = 441039.26%#		
44) 2-Fluorobiphenyl	7.91	172	1927372	43976.7071884 ppb	0.01
Spiked Amount 10.000	Range 35 - 133		Recovery = 439767.07%#		
67) 2,4,6-Tribromophenol	9.52	330	422105	57934.5611363 ppb	0.01
Spiked Amount 20.000	Range 22 - 154		Recovery = 289672.81%#		
81) p-Terphenyl-d14	12.00	244	2985642	47517.4459413 ppb	0.01
Spiked Amount 10.000	Range 30 - 148		Recovery = 475174.46%#		

Target Compounds					Qvalue
2) Pyridine	3.46	79	986976	35326.4032573 ppb	98
3) N-Nitrosodimethylamine	3.44	42	820965	50611.9842090 ppb	97
5) Aniline	5.19	66	567742	43176.7782404 ppb	99
6) bis(2-Chloroethyl)ether	5.22	63	751501	43171.5584323 ppb	96
8) Phenol	5.11	94	1094966	43218.3665124 ppb	98
9) Benzaldehyde	5.12	105	2713	276.0707432 ppb #	1
10) 2-Chlorophenol	5.29	128	865220	44197.7403841 ppb	97
11) n-Decane	5.30	41	587629	38015.6040397 ppb	100
12) 1,3-Dichlorobenzene	5.44	146	978225	45608.7801059 ppb	98
13) 1,4-Dichlorobenzene	5.51	146	970283	44714.1920299 ppb	98
14) Benzyl Alcohol	5.60	79	839658	43999.5103226 ppb	99
15) 1,2-Dichlorobenzene	5.65	146	925614	44711.6931837 ppb	99
16) bis(2-Chloroisopropyl)ethe	5.72	121	287521	44502.3414068 ppb	99
17) 2-Methylphenol	5.68	108	795747	43217.4384518 ppb	98
18) Hexachloroethane	5.99	117	427940	46044.9524155 ppb	100
19) N-Nitrosodi-n-propylamine	5.87	70	700322	40744.1082034 ppb	94
20) 3&4-Methyl phenol	5.84	107	952045	44950.5970661 ppb	97
21) Acetophenone	5.84	105	9384	330.4915899 ppb #	1
24) Nitrobenzene	6.05	77	1023269	42037.4136598 ppb	95
25) Isophorone	6.28	82	1745014	41624.3337645 ppb	97
26) 2-Nitrophenol	6.37	139	483097	49396.0208115 ppb	92
27) 2,4-Dimethylphenol	6.38	107	872453	41614.5480815 ppb	98
28) bis(2-Chlorethoxy)methane	6.48	93	1145798	43775.9238842 ppb	99
29) 2,4-Dichlorophenol	6.61	162	780884	48602.5905377 ppb	89
30) Benzoic Acid	6.38	105	28534	2911.5958182 ppb #	1
31) 1,2,4-Trichlorobenzene	6.70	180	833430	46274.5791435 ppb	98
32) Naphthalene	6.80	128	2565861	39742.8416933 ppb	98
33) 4-Chloroaniline	6.83	65	385509	41401.8636259 ppb	99
34) Hexachloro-1,3-butadiene	6.91	225	475799	46338.0706123 ppb	99
35) Caprolactam	7.32	113	24639	4251.5276028 ppb #	19
36) 4-Chloro-3-methylphenol	7.32	107	871805	45678.5561541 ppb	99
37) 2-Methylnaphthalene	7.53	142	1826672	42369.6328297 ppb	99
38) 1-Methylnaphthalene	7.64	142	1690589	42406.1302238 ppb	99

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\111214\1112 01.D Vial: 10
Acq On : 12 Nov 2014 8:35 am Operator: 280
Sample : PRIME Inst : BNAMS11
Misc : prime Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Nov 12 21:01 2014 Quant Results File: S811K12N.RES

Quant Method : C:\MSDCHEM\1\METHODS\S811K12N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Wed Nov 12 20:49:50 2014
Response via : Initial Calibration
DataAcq Meth : BNA11

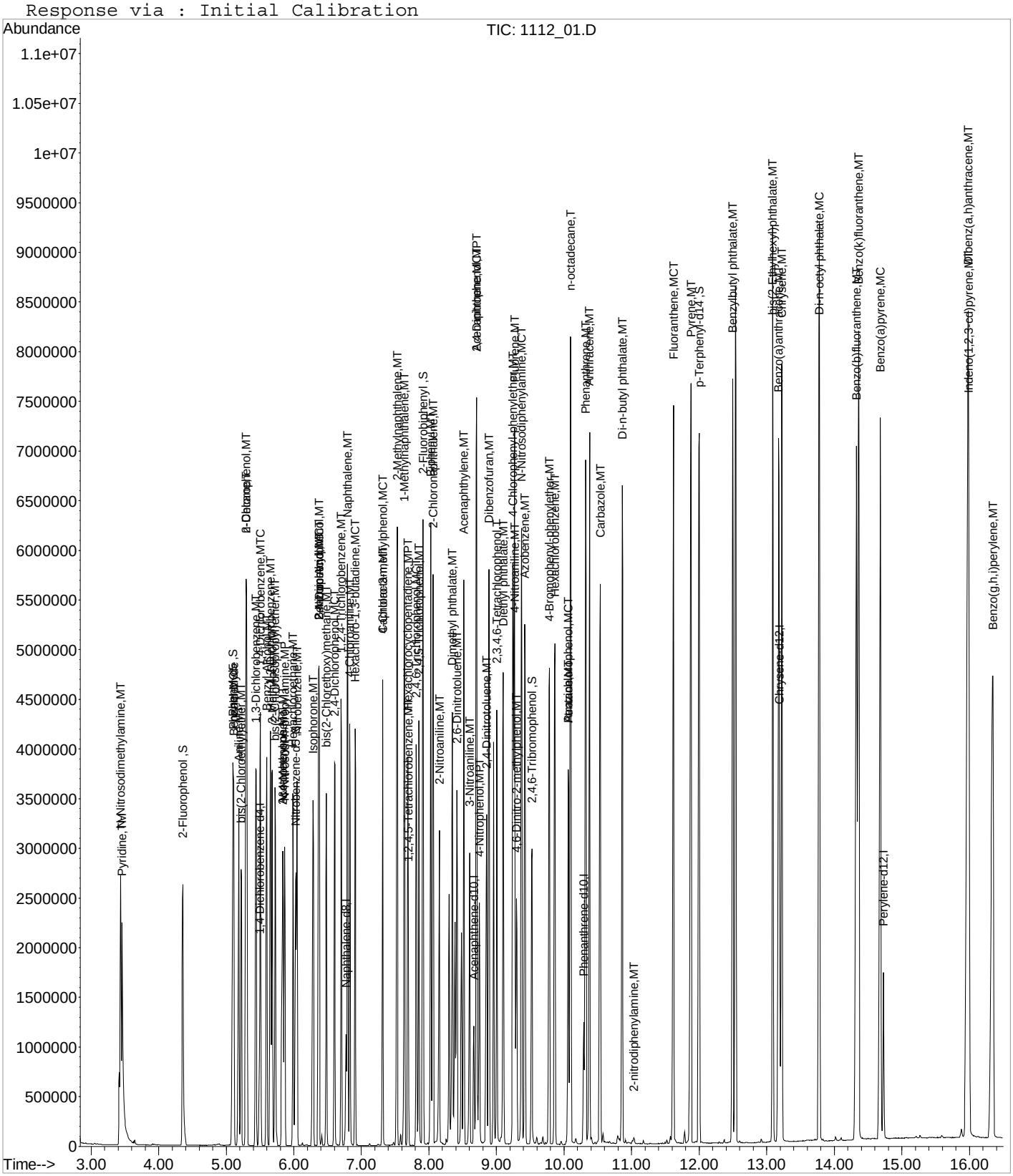
	Compound	R.T.	QIon	Response	Conc Unit		Qvalue
39)	1,2,4,5-Tetrachlorobenzene	7.70	216	1292	73.2377299 ppb	#	62
41)	Hexachlorocyclopentadiene	7.69	237	575235	51987.7460609 ppb		99
42)	2,4,6-Trichlorophenol	7.81	196	553835	49670.4983930 ppb		98
43)	2,4,5-Trichlorophenol	7.85	196	580118	47594.3880213 ppb		96
45)	Biphenyl	8.03	154	2102334	42003.6558757 ppb		100
46)	2-Chloronaphthalene	8.06	162	1679673	43120.7015133 ppb		99
47)	2-Nitroaniline	8.15	138	638466	51344.9364641 ppb		92
48)	Acenaphthylene	8.52	152	2609619	43139.2566550 ppb		99
49)	Dimethyl phthalate	8.35	163	1972566	46486.6162026 ppb		99
50)	2,6-Dinitrotoluene	8.41	165	491660	52042.7355584 ppb		88
51)	3-Nitroaniline	8.61	138	536612	47522.9703528 ppb		86
52)	Acenaphthene	8.71	153	1684353	41673.3248722 ppb		98
53)	2,4-Dinitrophenol	8.71	184	255953	49313.0201298 ppb	#	1
54)	Dibenzofuran	8.89	168	2418443	44244.7859465 ppb		98
55)	2,4-Dinitrotoluene	8.85	165	675936	54724.7672181 ppb		99
56)	2,3,4,6-Tetrachlorophenol	9.01	232	537031	63858.5662965 ppb		89
57)	4-Nitrophenol	8.75	139	480186	55761.8722285 ppb		91
58)	Fluorene	9.27	166	1968743	43214.8693993 ppb		99
59)	4-Chlorophenyl-phenylether	9.24	204	1009525	47548.6490567 ppb		98
60)	Diethyl phthalate	9.10	149	2055010	44827.0759920 ppb		96
61)	4-Nitroaniline	9.28	138	454412	42994.2757695 ppb		91
62)	Azobenzene	9.42	77	2257200	40750.2553354 ppb		96
63)	Atrazine	10.06	200	79597	6645.8760868 ppb	#	52
65)	4,6-Dinitro-2-methylphenol	9.30	198	377318	50787.3531030 ppb		86
66)	N-Nitrosodiphenylamine	9.37	169	1739168	44443.0311779 ppb		99
68)	4-Bromophenyl-phenylether	9.78	248	695521	50445.5495962 ppb		89
69)	Hexachlorobenzene	9.87	284	826517	50286.5984558 ppb		99
70)	n-octadecane	10.10	55	368476	37514.9154495 ppb		98
71)	Pentachlorophenol	10.07	266	503683	56486.6422516 ppb		96
72)	Phenanthrene	10.32	178	2955674	41804.5802959 ppb		99
73)	Anthracene	10.38	178	3001727	41969.0688920 ppb		99
74)	Carbazole	10.54	167	2632497	38242.2233237 ppb		99
75)	Di-n-butyl phthalate	10.86	149	3743354	41008.6249685 ppb		98
76)	2-nitrodiphenylamine	11.03	167	806	45.2729979 ppb	#	1
77)	Fluoranthene	11.62	202	3464790	40479.4875198 ppb		99
79)	Benzidine	0.00	184	0	N.D.		
80)	Pyrene	11.88	202	3576642	44990.9336363 ppb		99
82)	Benzylbutyl phthalate	12.49	149	1940552	47780.9956755 ppb		98
83)	3,3-Dichlorobenzidine	0.00	252	0	N.D.		
84)	Benzo(a)anthracene	13.18	228	3708565	43759.1078929 ppb		98
85)	Chrysene	13.22	228	3207126	41790.4263603 ppb		99
86)	bis(2-Ethylhexyl)phthalate	13.09	149	2656361	43714.9330084 ppb		96
87)	Di-n-octyl phthalate	13.78	149	4416186	42684.2184700 ppb		99
89)	Benzo(b)fluoranthene	14.33	252	4494331	44217.7682879 ppb		98
90)	Benzo(k)fluoranthene	14.36	252	3683752	40376.3422583 ppb		95
91)	Benzo(a)pyrene	14.68	252	4176822	43834.8290982 ppb		98
92)	Indeno(1,2,3-cd)pyrene	15.99	276	4938149	42265.2128291 ppb		91
93)	Dibenz(a,h)anthracene	15.98	278	4139848	42559.6462622 ppb		95
94)	Benzo(g,h,i)perylene	16.35	276	4280486	43259.7852713 ppb		96

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\111214\1112 01.D Vial: 10
Acq On : 12 Nov 2014 8:35 am Operator: 280
Sample : PRIME Inst : BNAMS11
Misc : prime Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Nov 12 21:01 2014 Quant Results File: S811K12N.RES

Method : C:\MSDCHEM\1\METHODS\S811K12N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Wed Nov 12 20:49:50 2014
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\111214\1112 23.D Vial: 21
Acq On : 12 Nov 2014 6:25 pm Operator: 280
Sample : DNR MRL SVMS 500 PPB 14K07412 Inst : BNAMS11
Misc : 8270 Primary Calibration MRL Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Nov 12 21:21 2014 Quant Results File: S811K12N.RES

Quant Method : C:\MSDCHEM\1\METHODS\S811K12N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Wed Nov 12 20:49:50 2014
Response via : Initial Calibration
DataAcq Meth : BNA11A

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	5.48	152	102465	8000.00 ppb	0.00
22) Naphthalene-d8	6.76	136	443251	8000.00 ppb	0.00
40) Acenaphthene-d10	8.65	164	264617	8000.00 ppb	0.00
64) Phenanthrene-d10	10.27	188	475041	8000.00 ppb	-0.01
78) Chrysene-d12	13.15	240	594906	8000.00 ppb	-0.02
88) Perylene-d12	14.67	264	707628	8000.00 ppb	-0.05

System Monitoring Compounds					
4) 2-Fluorophenol	4.36	112	9203	505.1474554 ppb	0.01
Spiked Amount 20.000	Range 10 - 74		Recovery = 2525.74%#		
7) Phenol-d5	5.08	99	12393	496.8830557 ppb	0.00
Spiked Amount 20.000	Range 10 - 63		Recovery = 2484.42%#		
23) Nitrobenzene-d5	6.01	82	12619	528.9224030 ppb	0.00
Spiked Amount 10.000	Range 28 - 123		Recovery = 5289.22%#		
44) 2-Fluorobiphenyl	7.90	172	23051	535.6624263 ppb	0.00
Spiked Amount 10.000	Range 35 - 133		Recovery = 5356.62%#		
67) 2,4,6-Tribromophenol	9.51	330	2873	409.0393928 ppb	0.00
Spiked Amount 20.000	Range 22 - 154		Recovery = 2045.20%#		
81) p-Terphenyl-d14	11.98	244	34519	495.8535189 ppb	-0.01
Spiked Amount 10.000	Range 30 - 148		Recovery = 4958.54%#		

Target Compounds						Qvalue
2) Pyridine	3.47	79	14527	517.4822451 ppb		97
3) N-Nitrosodimethylamine	3.44	42	8955	549.4409177 ppb	#	76
5) Aniline	5.17	66	6934	524.8192234 ppb		98
6) bis(2-Chloroethyl)ether	5.21	63	9766	558.3564928 ppb		95
8) Phenol	5.10	94	13745	539.9320971 ppb		97
9) Benzaldehyde	5.59	105	395	40.0031668 ppb	#	1
10) 2-Chlorophenol	5.28	128	10046	510.7323625 ppb		98
11) n-Decane	5.30	41	9483	610.5638860 ppb	#	100
12) 1,3-Dichlorobenzene	5.44	146	11327	525.5950741 ppb		96
13) 1,4-Dichlorobenzene	5.50	146	11773	539.9590151 ppb		95
14) Benzyl Alcohol	5.58	79	10348	539.6703029 ppb		100
15) 1,2-Dichlorobenzene	5.65	146	11388	547.4763301 ppb		95
16) bis(2-Chloroisopropyl)ethe	5.72	121	3419	526.6706039 ppb		89
17) 2-Methylphenol	5.67	108	9657	521.9788795 ppb		97
18) Hexachloroethane	5.98	117	4745	508.1150401 ppb		94
19) N-Nitrosodi-n-propylamine	5.84	70	8928	516.9492573 ppb		99
20) 3&4-Methyl phenol	5.82	107	10592	497.7171980 ppb		97
21) Acetophenone	5.67	105	62	2.1731554 ppb	#	1
24) Nitrobenzene	6.03	77	13017	535.3452743 ppb		97
25) Isophorone	6.27	82	21878	522.4357589 ppb		96
26) 2-Nitrophenol	6.35	139	4538	464.5142200 ppb	#	76
27) 2,4-Dimethylphenol	6.36	107	11153	532.5639218 ppb		95
28) bis(2-Chlorethoxy)methane	6.47	93	14054	537.5317326 ppb		96
29) 2,4-Dichlorophenol	6.59	162	7605	473.8588646 ppb		96
30) Benzoic Acid	6.36	105	411	704.0770944 ppb	#	1
31) 1,2,4-Trichlorobenzene	6.70	180	9441	524.7690868 ppb		97
32) Naphthalene	6.78	128	36739	569.6787498 ppb		98
33) 4-Chloroaniline	6.82	65	4850	521.4395943 ppb		94
34) Hexachloro-1,3-butadiene	6.90	225	5301	516.8316768 ppb		98
35) Caprolactam	7.30	113	166	28.6752301 ppb	#	14
36) 4-Chloro-3-methylphenol	7.30	107	9396	492.8479087 ppb		94
37) 2-Methylnaphthalene	7.52	142	22793	529.2641974 ppb		99
38) 1-Methylnaphthalene	7.62	142	21603	542.4772965 ppb		98

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\111214\1112 23.D Vial: 21
Acq On : 12 Nov 2014 6:25 pm Operator: 280
Sample : DNR MRL SVMS 500 PPB 14K07412 Inst : BNAMS11
Misc : 8270 Primary Calibration MRL Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Nov 12 21:21 2014 Quant Results File: S811K12N.RES

Quant Method : C:\MSDCHEM\1\METHODS\S811K12N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Wed Nov 12 20:49:50 2014
Response via : Initial Calibration
DataAcq Meth : BNA11A

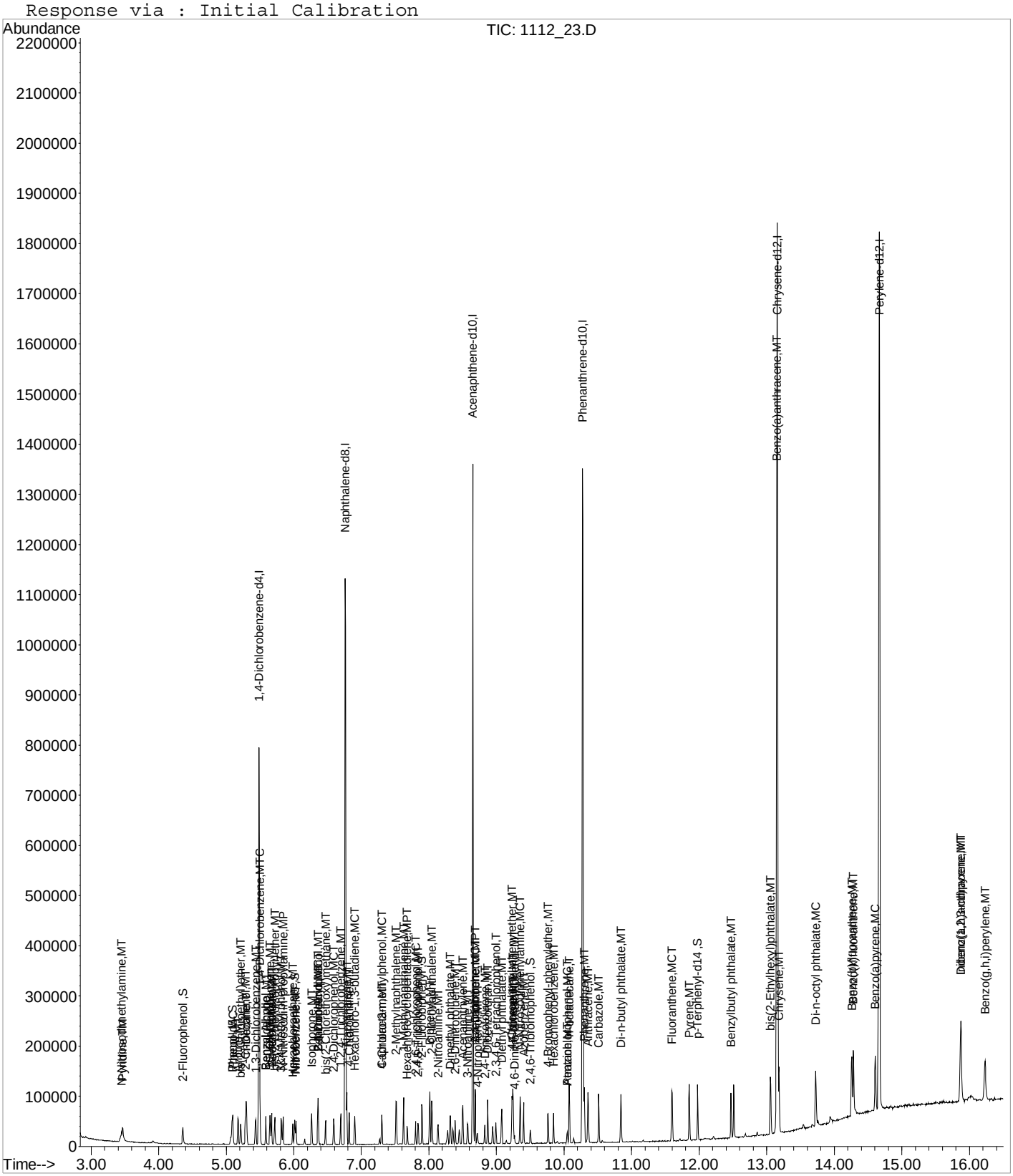
	Compound	R.T.	QIon	Response	Conc Unit		Qvalue
39)	1,2,4,5-Tetrachlorobenzene	0.00	216	0	N.D.		
41)	Hexachlorocyclopentadiene	7.68	237	5025	462.5258429 ppb		97
42)	2,4,6-Trichlorophenol	7.80	196	5039	460.2637052 ppb		95
43)	2,4,5-Trichlorophenol	7.84	196	5335	445.7774347 ppb		95
45)	Biphenyl	8.01	154	27281	555.1238856 ppb		99
46)	2-Chloronaphthalene	8.04	162	20729	541.9805221 ppb		99
47)	2-Nitroaniline	8.14	138	5259	430.7321290 ppb		89
48)	Acenaphthylene	8.50	152	31321	527.3214313 ppb		98
49)	Dimethyl phthalate	8.32	163	21262	510.3225466 ppb		98
50)	2,6-Dinitrotoluene	8.39	165	4246	457.7406486 ppb		93
51)	3-Nitroaniline	8.58	138	4808	433.6625382 ppb		93
52)	Acenaphthene	8.68	153	22387	564.1118042 ppb		97
53)	2,4-Dinitrophenol	8.68	184	851	1093.8880623 ppb	#	1
54)	Dibenzofuran	8.87	168	30011	559.1791379 ppb		99
55)	2,4-Dinitrotoluene	8.82	165	4922	405.8487437 ppb		79
56)	2,3,4,6-Tetrachlorophenol	8.99	232	4160	503.7991025 ppb		93
57)	4-Nitrophenol	8.72	139	2990	353.6252703 ppb		95
58)	Fluorene	9.24	166	24072	538.1466035 ppb		97
59)	4-Chlorophenyl-phenylether	9.23	204	10965	525.9857653 ppb		97
60)	Diethyl phthalate	9.08	149	22684	503.9533789 ppb		99
61)	4-Nitroaniline	9.24	138	4689	451.8406813 ppb		96
62)	Azobenzene	9.40	77	28959	532.4613692 ppb		97
63)	Atrazine	10.05	200	436	37.0754371 ppb	#	1
65)	4,6-Dinitro-2-methylphenol	9.27	198	1764	1296.9933179 ppb		86
66)	N-Nitrosodiphenylamine	9.35	169	19421	514.8088548 ppb		100
68)	4-Bromophenyl-phenylether	9.77	248	6654	500.6194185 ppb		98
69)	Hexachlorobenzene	9.84	284	7992	504.3920447 ppb		97
70)	n-octadecane	10.08	55	5152	544.1052349 ppb		94
71)	Pentachlorophenol	10.05	266	2777	323.0551215 ppb		94
72)	Phenanthrene	10.30	178	37714	553.3274520 ppb		99
73)	Anthracene	10.35	178	36545	530.0274876 ppb		98
74)	Carbazole	10.51	167	35196	530.3723094 ppb		99
75)	Di-n-butyl phthalate	10.84	149	41633	473.1123653 ppb		98
76)	2-nitrodiphenylamine	0.00	167	0	N.D.		
77)	Fluoranthene	11.60	202	42047	509.5718017 ppb		97
79)	Benzidine	0.00	184	0	N.D.		
80)	Pyrene	11.85	202	44131	501.0408529 ppb		98
82)	Benzylbutyl phthalate	12.47	149	19235	427.4663542 ppb		97
83)	3,3-Dichlorobenzidine	0.00	252	0	N.D.		
84)	Benzo(a)anthracene	13.14	228	49242	524.4185966 ppb		99
85)	Chrysene	13.18	228	46293	544.4474164 ppb		97
86)	bis(2-Ethylhexyl)phthalate	13.05	149	30840	458.0753552 ppb		98
87)	Di-n-octyl phthalate	13.72	149	51723	451.2149908 ppb		100
89)	Benzo(b)fluoranthene	14.26	252	51877	505.1811378 ppb		99
90)	Benzo(k)fluoranthene	14.28	252	50948	552.7188001 ppb		97
91)	Benzo(a)pyrene	14.61	252	47455	492.9420149 ppb		99
92)	Indeno(1,2,3-cd)pyrene	15.87	276	59604	504.9341971 ppb		97
93)	Dibenz(a,h)anthracene	15.87	278	50360	512.4362491 ppb		95
94)	Benzo(g,h,i)perylene	16.23	276	50403	504.1829711 ppb		97

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\111214\1112 23.D Vial: 21
Acq On : 12 Nov 2014 6:25 pm Operator: 280
Sample : DNR MRL SVMS 500 PPB 14K07412 Inst : BNAMS11
Misc : 8270 Primary Calibration MRL Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Nov 12 21:21 2014 Quant Results File: S811K12N.RES

Method : C:\MSDCHEM\1\METHODS\S811K12N.M (RTE Integrator)
Title : 8270 BNA
Last Update : Wed Nov 12 20:49:50 2014
Response via : Initial Calibration



Semi-Volatiles by Method 8270 C-SIM

12065 Lebanon Rd
Mt. Juliet, TN 37122
(615) 758-5858
(800) 767-5859
Fax (615) 758-5859
Tax I.D 62-0814289
Est. 1970

Quality Control Summary
SDG: L735181

Semi-Volatiles by Method 8270 C-SIM
URS Corporation - Tucson AZ - 1088308

Project: Holloman AFB
Project No: 23446543.0057AA

Login No: L735181

Lab SampleID.	Client ID
L735181-01	H-TU508-TRIPBLANK-TT01
L735181-02	H-TU508-MW06-NT01
L735181-03	H-TU508-MW06-ND01
L735181-04	H-TU508-MW05-ND01
L735181-05	H-TU508-MW05-NT01
L735181-06	H-TU508-MW04-ND01
L735181-07	H-TU508-MW04-NT01
L735181-08	H-TU508-MW07-NT01
L735181-09	H-TU508-MW07-ND01
L735181-10	H-TU508-MW07-NT01

I certify that this data package accurately represents the information in the raw data found herein, both technically and for completeness. Release of the data contained in this data package has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature.

Signature: _____ Name: ESC Lab Sciences

Date: _____ Title: Quality Control

12065 Lebanon Rd
Mt. Juliet, TN 37122
(615) 758-5858
(800) 767-5859
Fax (615) 758-5859
Tax I.D 62-0814289
Est. 1970

Quality Control Summary
SDG: L735181
URS Corporation - Tucson AZ - 1088308

Test:	Semi-Volatiles by Method 8270 C-SIM		
Project No:	23446543.0057AA	Matrix:	Water - ug/L
Project:	Holloman AFB	EPA ID:	TN00003
Collection Date:	11/20/2014	**Analytic Batch:**	**WG756543**
Analysis Date:	11/25/2014	Analyst:	280
Instrument ID:	BNAMS14	Prep Date:	11/24/2014
Sample Numbers:	L735181-02, -05, -07, -08		

Workgroup: **WG756543**
Description: **PAHs by SIM by Method 8270 C-SIM (GW)**

Sample Name	Collect Date	Prep Date	Analysis Date
L735181-02 1x	11/19/2014	11/25/2014	11/25/2014
L735181-05 1x	11/19/2014	11/25/2014	11/25/2014
L735181-07 1x	11/19/2014	11/25/2014	11/25/2014
L735181-08 1x	11/21/2014	11/25/2014	11/25/2014

Parameters in bold text are reported in this SDG

12065 Lebanon Rd
Mt. Juliet, TN 37122
(615) 758-5858
(800) 767-5859
Fax (615) 758-5859
Tax I.D 62-0814289
Est. 1970

Quality Control Summary
SDG: L735181
URS Corporation - Tucson AZ - 1088308

Test:	Semi-Volatiles by Method 8270 C-SIM		
Project No:	23446543.0057AA	Matrix:	Water - ug/L
Project:	Holloman AFB	EPA ID:	TN00003
Collection Date:	11/20/2014	**Analytic Batch:**	**WG756543**
Analysis Date:	11/25/2014	Analyst:	280
Instrument ID:	BNAMS14	Prep Date:	11/24/2014
Sample Numbers:	L735181-02, -05, -07, -08		

Method Blank Summary

Instrument	Client Sample ID	Lab Sample ID	File Name	Analysis Date	Analysis Time
BNAMS14	LCS WG756543	LCS WG756543	1124A_05.D	11/25/2014	1:59 AM
BNAMS14	LCSD WG756543	LCSD WG756543	1124A_06.D	11/25/2014	2:20 AM
BNAMS14	Blank WG756543	Blank WG756543	1124A_07.D	11/25/2014	2:41 AM
BNAMS14	H-TU508-MW06-NT01	L735181-02	1124A_18.D	11/25/2014	6:28 AM
BNAMS14	H-TU508-MW05-NT01	L735181-05	1124A_19.D	11/25/2014	6:49 AM
BNAMS14	H-TU508-MW04-NT01	L735181-07	1124A_20.D	11/25/2014	7:09 AM
BNAMS14	H-TU508-MW07-NT01	L735181-08	1124A_21.D	11/25/2014	7:30 AM

Parameters in bold text are reported in this SDG

12065 Lebanon Rd
Mt. Juliet, TN 37122
(615) 758-5858
(800) 767-5859
Fax (615) 758-5859
Tax I.D 62-0814289
Est. 1970

Quality Control Summary
SDG: L735181
URS Corporation - Tucson AZ - 1088308

Test:	Semi-Volatiles by Method 8270 C-SIM		
Project No:	23446543.0057AA	Matrix:	Water - ug/L
Project:	Holloman AFB	EPA ID:	TN00003
Collection Date:	11/20/2014	**Analytic Batch:**	**WG756543**
Analysis Date:	11/25/2014	Analyst:	280
Instrument ID:	BNAMS14	Prep Date:	11/24/2014
Sample Numbers:	L735181-02, -05, -07, -08		

Method Blank

Analyte	CAS	RDL	MDL	Qualifier
2-Methylnaphthalene	91-57-6	< 0.250	< 0.0155	
Acenaphthene	83-32-9	< 0.0500	< 0.00823	
Acenaphthylene	208-96-8	< 0.0500	< 0.0109	
Anthracene	120-12-7	< 0.0500	< 0.0131	
Benzo(a)anthracene	56-55-3	< 0.0500	< 0.0124	
Benzo(a)pyrene	50-32-8	< 0.0500	< 0.0158	
Benzo(b)fluoranthene	205-99-2	< 0.0500	< 0.0192	
Benzo(g,h,i)perylene	191-24-2	< 0.0500	< 0.0157	
Benzo(k)fluoranthene	207-08-9	< 0.0500	< 0.0255	
Chrysene	218-01-9	< 0.0500	< 0.0144	
Dibenz(a,h)anthracene	53-70-3	< 0.0500	< 0.00454	
Fluoranthene	206-44-0	< 0.0500	< 0.0165	
Fluorene	86-73-7	< 0.0500	< 0.00898	
Indeno(1,2,3-cd)pyrene	193-39-5	< 0.0500	< 0.00739	
Naphthalene	91-20-3	< 0.250	0.0148	
Phenanthrene	85-01-8	< 0.0500	< 0.0184	
Pyrene	129-00-0	< 0.0500	< 0.0155	

Parameters in bold text are reported in this SDG

12065 Lebanon Rd
Mt. Juliet, TN 37122
(615) 758-5858
(800) 767-5859
Fax (615) 758-5859
Tax I.D 62-0814289
Est. 1970

Quality Control Summary
SDG: L735181
URS Corporation - Tucson AZ - 1088308

Test:	Semi-Volatiles by Method 8270 C-SIM		
Project No:	23446543.0057AA	Matrix:	Water - ug/L
Project:	Holloman AFB	EPA ID:	TN00003
Collection Date:	11/20/2014	**Analytic Batch:**	**WG756543**
Analysis Date:	11/25/2014	Analyst:	280
Instrument ID:	BNAMS14	Prep Date:	11/24/2014
Sample Numbers:	L735181-02, -05, -07, -08		

Laboratory Control Sample (LCS)

Analyte	Dil	True Value	Found	% Rec	Control Limits	Qual
2-Methylnaphthalene	1	2	1.3812	69.1	45.5 - 113	
Acenaphthene	1	2	1.4136	70.7	49.4 - 111	
Acenaphthylene	1	2	1.3689	68.4	45.9 - 112	
Anthracene	1	2	1.7584	87.9	49.2 - 120	
Benzo(a)anthracene	1	2	1.7893	89.5	48.1 - 122	
Benzo(a)pyrene	1	2	1.8107	90.5	51 - 116	
Benzo(b)fluoranthene	1	2	1.7359	86.8	49.8 - 118	
Benzo(g,h,i)perylene	1	2	1.8499	92.5	46.7 - 122	
Benzo(k)fluoranthene	1	2	1.7941	89.7	50 - 121	
Chrysene	1	2	1.8105	90.5	50.3 - 119	
Dibenz(a,h)anthracene	1	2	1.8283	91.4	41.1 - 125	
Fluoranthene	1	2	1.8280	91.4	52.3 - 124	
Fluorene	1	2	1.4281	71.4	49 - 112	
Indeno(1,2,3-cd)pyrene	1	2	1.8453	92.3	46.9 - 123	
Naphthalene	1	2	1.2907	64.5	43.6 - 108	
Phenanthrene	1	2	1.5796	79	50.3 - 111	
Pyrene	1	2	2.0489	102	48.1 - 116	

Parameters in bold text are reported in this SDG

12065 Lebanon Rd
Mt. Juliet, TN 37122
(615) 758-5858
(800) 767-5859
Fax (615) 758-5859
Tax I.D 62-0814289
Est. 1970

Quality Control Summary
SDG: L735181
URS Corporation - Tucson AZ - 1088308

Test:	Semi-Volatiles by Method 8270 C-SIM		
Project No:	23446543.0057AA	Matrix:	Water - ug/L
Project:	Holloman AFB	EPA ID:	TN00003
Collection Date:	11/20/2014	**Analytic Batch:**	**WG756543**
Analysis Date:	11/25/2014	Analyst:	280
Instrument ID:	BNAMS14	Prep Date:	11/24/2014
Sample Numbers:	L735181-02, -05, -07, -08		

Laboratory Control Sample Duplicate (LCSD)

Analyte	Dil	True Value	Found	% Rec	Control Limits	Qual
2-Methylnaphthalene	1	2	1.4512	72.6	45.5 - 113	
Acenaphthene	1	2	1.4765	73.8	49.4 - 111	
Acenaphthylene	1	2	1.4780	73.9	45.9 - 112	
Anthracene	1	2	1.8723	93.6	49.2 - 120	
Benzo(a)anthracene	1	2	1.8288	91.4	48.1 - 122	
Benzo(a)pyrene	1	2	1.8678	93.4	51 - 116	
Benzo(b)fluoranthene	1	2	1.7385	86.9	49.8 - 118	
Benzo(g,h,i)perylene	1	2	1.8352	91.8	46.7 - 122	
Benzo(k)fluoranthene	1	2	1.8320	91.6	50 - 121	
Chrysene	1	2	1.8519	92.6	50.3 - 119	
Dibenz(a,h)anthracene	1	2	1.8162	90.8	41.1 - 125	
Fluoranthene	1	2	1.8695	93.5	52.3 - 124	
Fluorene	1	2	1.4621	73.1	49 - 112	
Indeno(1,2,3-cd)pyrene	1	2	1.8450	92.3	46.9 - 123	
Naphthalene	1	2	1.3504	67.5	43.6 - 108	
Phenanthrene	1	2	1.5747	78.7	50.3 - 111	
Pyrene	1	2	2.0695	103	48.1 - 116	

Parameters in bold text are reported in this SDG

12065 Lebanon Rd
Mt. Juliet, TN 37122
(615) 758-5858
(800) 767-5859
Fax (615) 758-5859
Tax I.D 62-0814289
Est. 1970

Quality Control Summary
SDG: L735181
URS Corporation - Tucson AZ - 1088308

Test:	Semi-Volatiles by Method 8270 C-SIM		
Project No:	23446543.0057AA	Matrix:	Water - ug/L
Project:	Holloman AFB	EPA ID:	TN00003
Collection Date:	11/20/2014	**Analytic Batch:**	**WG756543**
Analysis Date:	11/25/2014	Analyst:	280
Instrument ID:	BNAMS14	Prep Date:	11/24/2014
Sample Numbers:	L735181-02, -05, -07, -08		

Laboratory Control Sample / Laboratory Control Sample Duplicate

Analyte	Dil	Spike	LCS	% Rec	LCSD	% Rec	Control Limits	% Rec Qual	% RPD	Control Limits	RPD Qual
2-Methylnaphthalene	1	2	1.3812	69.1	1.4512	72.6	45.5 - 113		4.94	20	
Acenaphthene	1	2	1.4136	70.7	1.4765	73.8	49.4 - 111		4.35	20	
Acenaphthylene	1	2	1.3689	68.4	1.4780	73.9	45.9 - 112		7.67	20	
Anthracene	1	2	1.7584	87.9	1.8723	93.6	49.2 - 120		6.27	20	
Benzo(a)anthracene	1	2	1.7893	89.5	1.8288	91.4	48.1 - 122		2.18	20	
Benzo(a)pyrene	1	2	1.8107	90.5	1.8678	93.4	51 - 116		3.1	20	
Benzo(b)fluoranthene	1	2	1.7359	86.8	1.7385	86.9	49.8 - 118		0.15	21	
Benzo(g,h,i)perylene	1	2	1.8499	92.5	1.8352	91.8	46.7 - 122		0.8	20	
Benzo(k)fluoranthene	1	2	1.7941	89.7	1.8320	91.6	50 - 121		2.09	20	
Chrysene	1	2	1.8105	90.5	1.8519	92.6	50.3 - 119		2.26	20	
Dibenz(a,h)anthracene	1	2	1.8283	91.4	1.8162	90.8	41.1 - 125		0.66	20	
Fluoranthene	1	2	1.8280	91.4	1.8695	93.5	52.3 - 124		2.24	20	
Fluorene	1	2	1.4281	71.4	1.4621	73.1	49 - 112		2.35	20	
Indeno(1,2,3-cd)pyrene	1	2	1.8453	92.3	1.8450	92.3	46.9 - 123		0.02	20	
Naphthalene	1	2	1.2907	64.5	1.3504	67.5	43.6 - 108		4.52	20	
Phenanthrene	1	2	1.5796	79	1.5747	78.7	50.3 - 111		0.31	20	
Pyrene	1	2	2.0489	102	2.0695	103	48.1 - 116		1	20	

Parameters in bold text are reported in this SDG

12065 Lebanon Rd
Mt. Juliet, TN 37122
(615) 758-5858
(800) 767-5859
Fax (615) 758-5859
Tax I.D 62-0814289
Est. 1970

YOUR LAB OF CHOICE

Quality Control Summary
SDG: L735181
URS Corporation - Tucson AZ - 1088308

Test:	Semi-Volatiles by Method 8270 C-SIM		
Project No:	23446543.0057AA	Matrix:	Water - ug/L
Project:	Holloman AFB	EPA ID:	TN00003
Collection Date:	11/20/2014	**Analytic Batch:**	**WG756543**
Analysis Date:	11/25/2014	Analyst:	280
Instrument ID:	BNAMS14	Prep Date:	11/24/2014
Sample Numbers:	L735181-02, -05, -07, -08		

Internal Standard Response and Retention Time Summary

File ID: 1124A_03
Analyzed: 11/25/14 004100

	ACE		CHR		NAP		PER	
	Response	**RT**	**Response**	**RT**	**Response**	**RT**	**Response**	**RT**
12 Hr. Std	22367	6.42	35844	10.66	40711	5.05	39579	12.57
Upper Limit	44700	6.92	71700	11.16	81400	5.55	79200	13.07
Lower Limit	11200	5.92	17900	10.16	20400	4.55	19800	12.07
Sample ID	**Response**	**RT**	**Response**	**RT**	**Response**	**RT**	**Response**	**RT**
L735181-02	21390	6.41	33871	10.66	38941	5.04	38134	12.57
L735181-05	22312	6.41	34984	10.66	39374	5.05	39175	12.57
L735181-07	22590	6.41	32949	10.66	40333	5.04	37162	12.57
L735181-08	21912	6.41	34706	10.66	39190	5.04	39360	12.57
LCSD WG756543	22395	6.42	33991	10.66	39865	5.05	38235	12.57
LCS WG756543	22044	6.42	33521	10.67	38481	5.04	37698	12.58
BLANK WG756543	22154	6.41	32665	10.66	40195	5.05	36041	12.57

Legend:

ACE -- Acenaphthene-d10
CHR -- Chrysene-d12
NAP -- Naphthalene-d8
PER -- Perylene-d12
PHEN -- Phenanthrene-d10

Parameters in bold text are reported in this SDG

12065 Lebanon Rd
Mt. Juliet, TN 37122
(615) 758-5858
(800) 767-5859
Fax (615) 758-5859
Tax I.D 62-0814289
Est. 1970

Quality Control Summary
SDG: L735181
URS Corporation - Tucson AZ - 1088308

Test:	Semi-Volatiles by Method 8270 C-SIM		
Project No:	23446543.0057AA	Matrix:	Water - ug/L
Project:	Holloman AFB	EPA ID:	TN00003
Collection Date:	11/20/2014	**Analytic Batch:**	**WG756543**
Analysis Date:	11/25/2014	Analyst:	280
Instrument ID:	BNAMS14	Prep Date:	11/24/2014
Sample Numbers:	L735181-02, -05, -07, -08		

Internal Standard Response and Retention Time Summary

File ID: 1124A_03
Analyzed: 11/25/14 004100

	ACE		PHEN	
	Response	**RT**	**Response**	**RT**
12 Hr. Std	22367	6.42	34302	7.67
Upper Limit	44700	6.92	68600	8.17
Lower Limit	11200	5.92	17200	7.17
Sample ID	**Response**	**RT**	**Response**	**RT**
L735181-02	21390	6.41	31313	7.67
L735181-05	22312	6.41	33876	7.67
L735181-07	22590	6.41	32162	7.68
L735181-08	21912	6.41	32871	7.67
LCSD WG756543	22395	6.42	32317	7.68
LCS WG756543	22044	6.42	32482	7.69
BLANK WG756543	22154	6.41	32475	7.68

Legend:
ACE -- Acenaphthene-d10
CHR -- Chrysene-d12
NAP -- Naphthalene-d8
PER -- Perylene-d12
PHEN -- Phenanthrene-d10

Parameters in bold text are reported in this SDG

12065 Lebanon Rd
Mt. Juliet, TN 37122
(615) 758-5858
(800) 767-5859
Fax (615) 758-5859
Tax I.D 62-0814289
Est. 1970

Quality Control Summary
SDG: L735181
URS Corporation - Tucson AZ - 1088308

Test:	Semi-Volatiles by Method 8270 C-SIM		
Project No:	23446543.0057AA	Matrix:	Water - ug/L
Project:	Holloman AFB	EPA ID:	TN00003
Collection Date:	11/20/2014	**Analytic Batch:**	**WG756543**
Analysis Date:	11/25/2014	Analyst:	280
Instrument ID:	BNAMS14	Prep Date:	11/24/2014
Sample Numbers:	L735181-02, -05, -07, -08		

Surrogate Summary

Laboratory Sample ID	Instrument	File ID	FBP ppm	FBP % Rec	NBZ ppm	NBZ % Rec	TPH ppm	TPH % Rec
L735181-02	BNAMS14	1124A_18	0.000976	48.8	0.00100	50.2	0.00122	60.8
L735181-05	BNAMS14	1124A_19	0.00108	53.8	0.00109	54.4	0.00132	65.8
L735181-07	BNAMS14	1124A_20	0.00102	51.1	0.00107	53.5	0.00137	68.6
L735181-08	BNAMS14	1124A_21	0.00104	52.1	0.00106	53.2	0.00138	69.0
LCS WG756543	BNAMS14	1124A_05	0.00134	66.9	0.00140	70.1	0.00174	87.0
LCSD WG756543	BNAMS14	1124A_06	0.00142	71.1	0.00147	73.6	0.00174	87.0
BLANK WG756543	BNAMS14	1124A_07	0.00135	67.6	0.00139	69.3	0.00176	87.8

FBP --2-FLUOROBIPHENYL	True Value: 0.002 ppm	Limits: 30.5 - 120
NBZ --NITROBENZENE-D5	True Value: 0.002 ppm	Limits: 19.5 - 128
TPH --P-TERPHENYL-D14	True Value: 0.002 ppm	Limits: 32.20 - 125

12065 Lebanon Rd
Mt. Juliet, TN 37122
(615) 758-5858
(800) 767-5859
Fax (615) 758-5859
Tax I.D 62-0814289
Est. 1970

Quality Control Summary
SDG: L735181
URS Corporation - Tucson AZ - 1088308

Test:	Semi-Volatiles by Method 8270 C-SIM		
Project No:	23446543.0057AA	Matrix:	Water - mg/L
Project:	Holloman AFB	EPA ID:	TN00003
Collection Date:	11/20/2014	**Analytic Batch:**	**WG756543**
Analysis Date:	11/25/2014	Analyst:	280
Instrument ID:	BNAMS14	Prep Date:	11/24/2014
Sample Numbers:	L735181-02, -05, -07, -08		

Instrument Performance Summary

FileID:1124A_02.D Date:11/25/2014 Time: 12:20 AM

m/e	Ion Abundance Criteria	% Relative Abundance
51	10 - 80% of mass 442	56.7
68	Less than 2% of mass 69	1.7
69	Less than 200% of mass 69	100.0
70	Less than 2% of mass 69	0.7
127	10 - 80% of mass 442	46.6
197	Less than 2% of mass 198	0.0
198	50 - 100% of mass 442	65.8
199	5 - 9% of mass 198	7.0
275	10 - 60% of mass 442	18.3
365	1 - 100% of mass 442	4.5
441	Present, but less than mass 443	83.2
442	50 - 100% of mass 442	100.0
443	15 - 24% of mass 442	19.0

This Check applies to the following samples and quality control samples

Client Sample ID	Laboratory Sample ID	Lab Filename	Date Analyzed	Time Analyzed
LCS WG756543	LCS WG756543	1124A_05.D	11/25/2014	1:59 AM
LCSD WG756543	LCSD WG756543	1124A_06.D	11/25/2014	2:20 AM
Blank WG756543	Blank WG756543	1124A_07.D	11/25/2014	2:41 AM
H-TU508-MW06-NT01	L735181-02	1124A_18.D	11/25/2014	6:28 AM
H-TU508-MW05-NT01	L735181-05	1124A_19.D	11/25/2014	6:49 AM
H-TU508-MW04-NT01	L735181-07	1124A_20.D	11/25/2014	7:09 AM
H-TU508-MW07-NT01	L735181-08	1124A_21.D	11/25/2014	7:30 AM

12065 Lebanon Rd
Mt. Juliet, TN 37122
(615) 758-5858
(800) 767-5859
Fax (615) 758-5859
Tax I.D 62-0814289
Est. 1970

Quality Control Summary
SDG: L735181
URS Corporation - Tucson AZ - 1088308

Test: Semi-Volatiles by Method 8270 C-SIM
Project: Holloman AFB
Instrument ID: BNAMS14
Method Name : SS14K11N.M

Relative Response Factor Summary

Compound Name	Level 1	Level 5	Level 10	Level 20	Level 40	Level 80	Level 200	Level 1000	Level 2000	Average RRF	%RSD
Nitrobenzene-d5	0.244	0.328	0.339	0.348	0.343	0.332	0.352	0.318	0.322	0.324918	10.01
Naphthalene	1.451	1.176	1.128	1.157	1.093	1.042	1.078	0.968	1.002	1.121625	12.59
2-Methylnaphthalene	0.747	0.725	0.714	0.746	0.713	0.681	0.719	0.660	0.717	0.713536	3.93
1-Methylnaphthalene	0.695	0.679	0.670	0.701	0.670	0.634	0.663	0.616	0.663	0.665661	4.05
2-Fluorobiphenyl	1.465	1.440	1.385	1.465	1.381	1.329	1.398	1.344	1.480	1.409629	3.92
2-Chloronaphthalene	1.363	1.335	1.290	1.359	1.293	1.246	1.310	1.248	1.357	1.311475	3.48
Acenaphthylene	1.864	1.828	1.794	1.914	1.868	1.842	2.005	1.993	2.173	1.920133	6.19
Acenaphthene	1.415	1.356	1.314	1.369	1.307	1.264	1.338	1.297	1.415	1.341537	3.89
Dibenzofuran	1.809	1.728	1.685	1.750	1.667	1.610	1.690	1.621	1.800	1.706555	4.17
Fluorene	1.513	1.424	1.391	1.470	1.407	1.368	1.467	1.482	1.652	1.463798	5.79
Phenanthrene	1.369	1.275	1.229	1.292	1.224	1.181	1.250	1.200	1.345	1.262608	5.05
Anthracene	1.119	1.152	1.154	1.222	1.204	1.166	1.254	1.229	1.397	1.210654	6.80
Fluoranthene	1.398	1.300	1.274	1.334	1.281	1.244	1.344	1.289	1.447	1.323528	4.91
Pyrene	1.308	1.210	1.185	1.219	1.173	1.131	1.207	1.125	1.201	1.195247	4.52
p-Terphenyl-d14	1.051	0.966	0.946	0.976	0.936	0.891	0.946	0.903	1.010	0.958339	5.23
Benzo(a)anthracene	1.317	1.175	1.149	1.211	1.180	1.151	1.236	1.172	1.229	1.202265	4.41
Chrysene	1.377	1.278	1.254	1.290	1.201	1.147	1.180	1.101	1.158	1.220655	7.07
Benzo(b)fluoranthene	1.033	1.032	0.969	1.057	1.064	1.063	1.137	1.124	1.223	1.078036	6.84
Benzo(k)fluoranthene	1.302	1.229	1.244	1.263	1.149	1.082	1.119	1.051	1.164	1.178132	7.30
Benzo(a)pyrene	0.928	0.881	0.957	1.005	0.973	0.946	1.023	0.988	1.080	0.975589	5.89
Indeno(1,2,3-cd)pyrene	1.397	1.317	1.311	1.380	1.327	1.292	1.387	1.397	1.506	1.368206	4.80
Dibenz(a,h)anthracene	1.139	1.115	1.101	1.156	1.113	1.080	1.152	1.199	1.356	1.156670	7.13
Benzo(g,h,i)perylene	1.176	1.142	1.110	1.159	1.119	1.074	1.131	1.057	1.082	1.116714	3.60

12065 Lebanon Rd
Mt. Juliet, TN 37122
(615) 758-5858
(800) 767-5859
Fax (615) 758-5859
Tax I.D 62-0814289
Est. 1970

Quality Control Summary
SDG: L735181
URS Corporation - Tucson AZ - 1088308

Test: Semi-Volatiles by Method 8270 C-SIM
Project No: 23446543.0057AA
Project: Holloman AFB EPA ID: TN00003
Collection Date: 11/20/2014
Instrument ID: BNAMS14

Method Name : SS14K11N.M Date : 11/25/2014
FileName : 1124A_03.D Time : 12:41 AM

Continuing Calibration Verification

Compound Name	Average RRF	CCC RRF	%D
Naphthalene	1.1216	1.1053	1.46
2-Methylnaphthalene	0.7135	0.6715	5.89
Acenaphthylene	1.9201	1.7621	8.23
Acenaphthene	1.3415	1.2601	6.07
Fluorene	1.4638	1.3270	9.34
Phenanthrene	1.2626	1.1201	11.3
Anthracene	1.2107	1.1868	1.97
Fluoranthene	1.3235	1.2238	7.54
Pyrene	1.1952	1.0760	9.98
Benzo(a)anthracene	1.2023	1.0819	10
Chrysene	1.2207	1.1209	8.18
Benzo(b)fluoranthene	1.0780	0.9657	10.4
Benzo(k)fluoranthene	1.1781	1.0870	7.73
Benzo(a)pyrene	0.9756	0.9127	6.45
Indeno(1,2,3-cd)pyrene	1.3682	1.2617	7.78
Dibenz(a,h)anthracene	1.1567	1.0577	8.56
Benzo(g,h,i)perylene	1.1167	1.0445	6.47

*** - calibrated by linear regression*

Raw Data

SIM RV SVOCs Benchsheet

Batch #: WG756543

Analyst: TJD473 **Prep Start Date/Time:** 11/25/14 01:14:51 **Prep End Date/Time:** 11/25/14 01:50:44

Na2SO4: 14J24546 Amt. Used: 2 Exp. Date:04/24/15 **NaOH:** 14J30860 Amt. Used: 1 Exp. Date:02/05/15 **MeCl2:** 14J30891 Amt. Used: 2 Exp. Date:04/30/15

Surrogate: 14K21141 Amt. Used: 200 µL Exp. Date:05/10/15 **LCS/MS Spike:** 14K03077 Amt. Used: 200 µL Exp. Date:11/30/14

Sample Number	Qualifiers	Extracted Vol. (mL)	Adjusted pH >11	Solvent Vol. (mL)	Emulsion	Final Volume(mL)	Extract Color	Sample Comments
BLANK		100	>11	18	No Emulsion	5	Colorless	
LCS		100	>11	18	No Emulsion	5	Colorless	
LCSD		100	>11	18	No Emulsion	5	Colorless	
1. L734231-16		100	>11	18	No Emulsion	5	Colorless	EDD/QC4/DOD
2. L734231-19		100	>11	18	No Emulsion	5	Colorless	EDD/QC4/DOD
3. L734231-20		100	>11	18	No Emulsion	5	Colorless	EDD/QC4/DOD
4. L734231-24		100	>11	18	No Emulsion	5	Colorless	EDD/QC4/DOD
5. L735095-03		100	>11	18	No Emulsion	5	Colorless	BAP only target PAHSIM added per Rick B. 10/18/07
6. L735095-04		100	>11	18	No Emulsion	5	Colorless	BAP only target PAHSIM added per Rick B. 10/18/07
7. L735095-05		100	>11	18	No Emulsion	5	Colorless	BAP only target PAHSIM added per Rick B. 10/18/07
8. L735095-06		100	>11	18	No Emulsion	5	Colorless	BAP only target PAHSIM added per Rick B. 10/18/07
9. L735095-07		100	>11	18	No Emulsion	5	Colorless	BAP only target PAHSIM added per Rick B. 10/18/07
10. L735095-08		100	>11	18	No Emulsion	5	Colorless	BAP only target PAHSIM added per Rick B. 10/18/07
11. L735181-02		100	>11	18	No Emulsion	5	Colorless	EDD/QC4/DOD
12. L735181-05		100	>11	18	No Emulsion	5	Colorless	EDD/QC4/DOD
13. L735181-07		100	>11	18	No Emulsion	5	Colorless	EDD/QC4/DOD
14. L735181-08		100	>11	18	No Emulsion	5	Colorless	EDD/QC4/DOD
15. L735318-07		100	>11	18	No	5	Colorless	EDD/QC4/DOD

					Emulsion			
16. L735318-08		100	>11	18	No Emulsion	5	Colorless	EDD/QC4/DOD

Comments:

Reviewed By:CJR140 on 11/25/14 01:57:52

Environmental Science Corporation
12065 Lebanon Rd., Mt. Juliet, TN 37122

Injection Log

Instrument ID : BNAMS14
Computer Name : SVCOMPAL

Released By : Fallon Labeots
Date Released : 11/25/2014 2:28:16 PM

Run ID : 112414A
Signature : _____

#	File ID	Sample ID	Method	WG	Product	Matrix	Account #	State	Dil.	Mult.	Injected	Misc.
1	1124A_01	INSTBLK	SS14K11N						1	1	11/24/14 2359	"instrument blank"
2	1124A_02	TUNE DFTPP 2 PPM 14J03433	TUNE525						1	1	11/25/14 0020	"DFTPP TUNE 14J03433"
3	1124A_02 T	TUNE DFTPP 2 PPM 14J03433	TUNE525							1	11/25/14 0020	
4	1124A_03	ICV SIMLVI 40 PPB 14I18662	SS14K11N						1	1	11/25/14 0041	"SIM/PAH STD"
5	1124A_04	DNR ICV PAHLVI 160 PPB 14I18662	S814J21N						1	1	11/25/14 0101	"SIM/PAH STD"
6	1124A_05	LCS	SS14K11N	WG756543	8270PAHSIM	GW			1	0.05	11/25/14 0159	"water 14K21141/14K03077"
7	1124A_06	LCSD	SS14K11N	WG756543	8270PAHSIM	GW			1	0.05	11/25/14 0220	"water 14K21141/14K03077"
8	1124A_07	BLANK	SS14K11N	WG756543	8270PAHSIM	GW			1	0.05	11/25/14 0241	"water 14K21141/14K03077"
9	1124A_08	L734231-16	SS14K11N	WG756543	8270PAHSIM	GW	URSTAZ	AZ	1	0.05	11/25/14 0301	"water 14K21141/14K03077"
10	1124A_09	L734231-19	SS14K11N	WG756543	8270PAHSIM	GW	URSTAZ	AZ	1	0.05	11/25/14 0322	"water 14K21141/14K03077"
11	1124A_10	L734231-20	SS14K11N	WG756543	8270PAHSIM	GW	URSTAZ	AZ	1	0.05	11/25/14 0343	"water 14K21141/14K03077"
12	1124A_11	L734231-24	SS14K11N	WG756543	8270PAHSIM	GW	URSTAZ	AZ	1	0.05	11/25/14 0403	"water 14K21141/14K03077"
13	1124A_12	L735095-03	SS14K11N	WG756543	8270PAHSIM	GW	SME	TN	1	0.05	11/25/14 0424	"water 14K21141/14K03077"
14	1124A_13	L735095-04	SS14K11N	WG756543	8270PAHSIM	GW	SME	TN	1	0.05	11/25/14 0445	"water 14K21141/14K03077"
15	1124A_14	L735095-05	SS14K11N	WG756543	8270PAHSIM	GW	SME	TN	1	0.05	11/25/14 0505	"water 14K21141/14K03077"
16	1124A_15	L735095-06	SS14K11N	WG756543	8270PAHSIM	GW	SME	TN	1	0.05	11/25/14 0526	"water 14K21141/14K03077"
17	1124A_16	L735095-07	SS14K11N	WG756543	8270PAHSIM	GW	SME	TN	1	0.05	11/25/14 0547	"water 14K21141/14K03077"
18	1124A_17	L735095-08	SS14K11N	WG756543	8270PAHSIM	GW	SME	TN	1	0.05	11/25/14 0607	"water 14K21141/14K03077"
19	1124A_18	L735181-02	SS14K11N	WG756543	8270PAHSIM	GW	URSTAZ	AZ	1	0.05	11/25/14 0628	"water 14K21141/14K03077"

Environmental Science Corporation
12065 Lebanon Rd., Mt. Juliet, TN 37122

Injection Log

Instrument ID : BNAMS14
Computer Name : SVCOMPAL

Released By : Fallon Labeots
Date Released : 11/25/2014 2:28:16 PM

Run ID : 112414A
Signature : _____

#	File ID	Sample ID	Method	WG	Product	Matrix	Account #	State	Dil.	Mult.	Injected	Misc.
20	1124A_19	L735181-05	SS14K11N	WG756543	8270PAHSIM	GW	URSTAZ	AZ	1	0.05	11/25/14 0649	"water 14K21141/14K03077"
21	1124A_20	L735181-07	SS14K11N	WG756543	8270PAHSIM	GW	URSTAZ	AZ	1	0.05	11/25/14 0709	"water 14K21141/14K03077"
22	1124A_21	L735181-08	SS14K11N	WG756543	8270PAHSIM	GW	URSTAZ	AZ	1	0.05	11/25/14 0730	"water 14K21141/14K03077"
23	1124A_22	L735318-07	SS14K11N	WG756543	8270PAHSIM	GW	URSTAZ	AZ	1	0.05	11/25/14 0751	"water 14K21141/14K03077"
24	1124A_23	L735318-08	SS14K11N	WG756543	8270PAHSIM	GW	URSTAZ	AZ	1	0.05	11/25/14 0811	"water 14K21141/14K03077"
25	1124A_24	L735086-02	SS14K11N	WG756551	PAHSIMLVI	GW	SHIELDKY	KY	1	0.05	11/25/14 0832	"water 14K21141/14K03077"
26	1124A_25	MS	SS14K11N	WG756551	PAHSIMLVI	GW			1	0.05	11/25/14 0853	"water 14K21141/14K03077"
27	1124A_26	MSD	SS14K11N	WG756551	PAHSIMLVI	GW			1	0.05	11/25/14 0913	"water 14K21141/14K03077"
28	1124A_27	L735137-08	SS14K11N	WG756551	PAHSIMLVI	GW	TERRASMO	KS	1	0.05	11/25/14 0934	"water 14K21141/14K03077"
29	1124A_28	L735311-01	SS14K11N	WG756551	PAHSIMLVI	GW	KNIENVLKS	KS	1	0.05	11/25/14 0955	"water 14K21141/14K03077"
30	1124A_29	L735311-02	SS14K11N	WG756551	PAHSIMLVI	GW	KNIENVLKS	KS	1	0.05	11/25/14 1015	"water 14K21141/14K03077"
31	1124A_30	L735311-03	SS14K11N	WG756551	PAHSIMLVI	GW	KNIENVLKS	KS	1	0.05	11/25/14 1036	"water 14K21141/14K03077"
32	1124A_31	L735311-04	SS14K11N	WG756551	PAHSIMLVI	GW	KNIENVLKS	KS	1	0.05	11/25/14 1057	"water 14K21141/14K03077"
33	1124A_32	L735311-05	SS14K11N	WG756551	PAHSIMLVI	GW	KNIENVLKS	KS	1	0.05	11/25/14 1117	"water 14K21141/14K03077"

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\112414A\
Data File : 1124A 02.D
Acq On : 25 Nov 2014 12:20 am
Operator : 280
Sample : TUNE DFTPP 2 PPM 14J03433
Misc : DFTPP TUNE 14J03433
ALS Vial : 2 Sample Multiplier: 1
InstName : BNAMS14

Quant Time: Nov 25 00:38:14 2014
Quant Method : C:\msdchem\1\METHODS\TUNE525.M
Quant Title :
QLast Update : Thu Jun 05 10:52:45 2014
Response via : Initial Calibration
DataAcq Meth:PAHMN.M

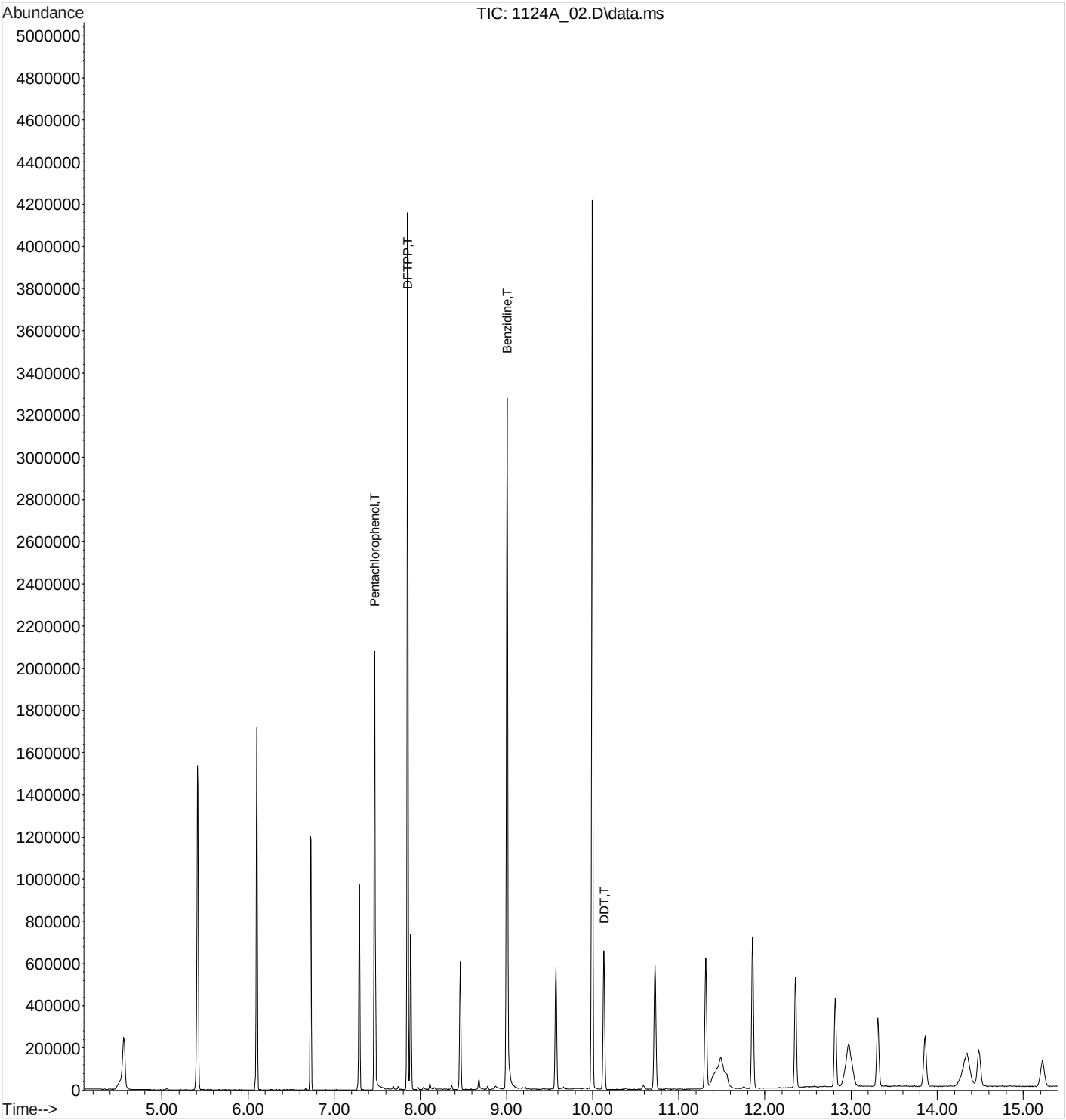
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Target Compounds						Qvalue
1) Pentachlorophenol	7.476	264	1096364	0.2919704	ppm	100
2) DFTPP	7.854	198	2526208	0.2960542	ppm	100
3) Benzidine	9.010	184	10352875	0.4174240	ppm	100
4) DDT	10.133	TIC	8568065	0.4001408	ppm	100
5) DDT	10.001	235	5760043	No Calib		

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\112414A\
Data File : 1124A 02.D
Acq On : 25 Nov 2014 12:20 am
Operator : 280
Sample : TUNE DFTPP 2 PPM 14J03433
Misc : DFTPP TUNE 14J03433
ALS Vial : 2 Sample Multiplier: 1
InstName : BNAMS14

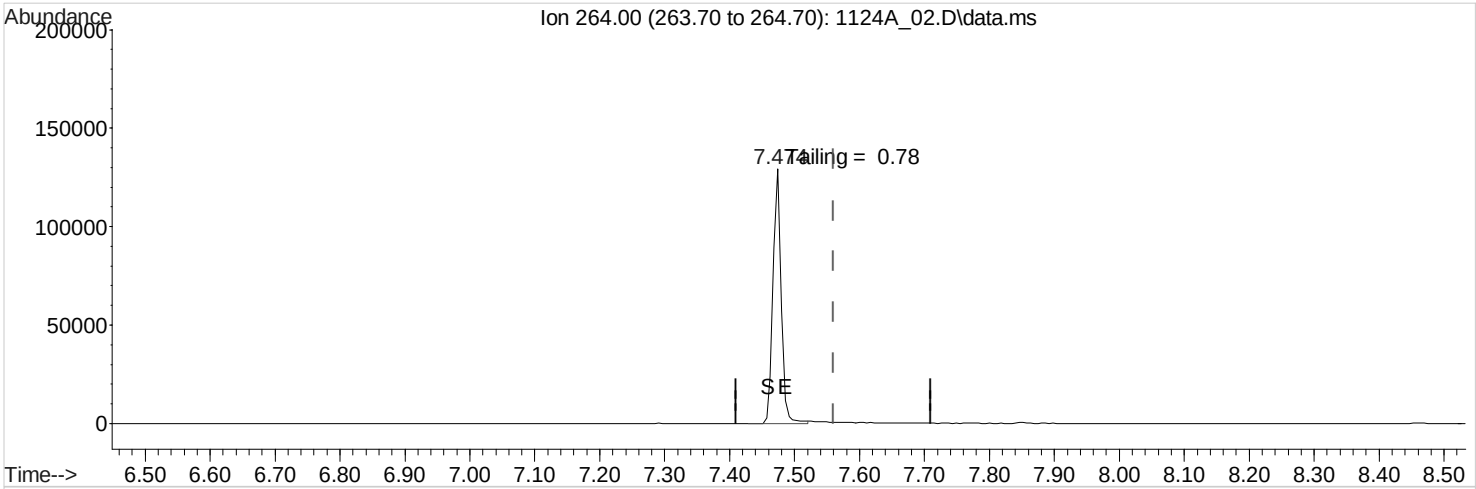
Quant Time: Nov 25 00:38:14 2014
Quant Method : C:\msdchem\1\METHODS\TUNE525.M
Quant Title :
QLast Update : Thu Jun 05 10:52:45 2014
Response via : Initial Calibration
DataAcq Meth:PAHMN.M

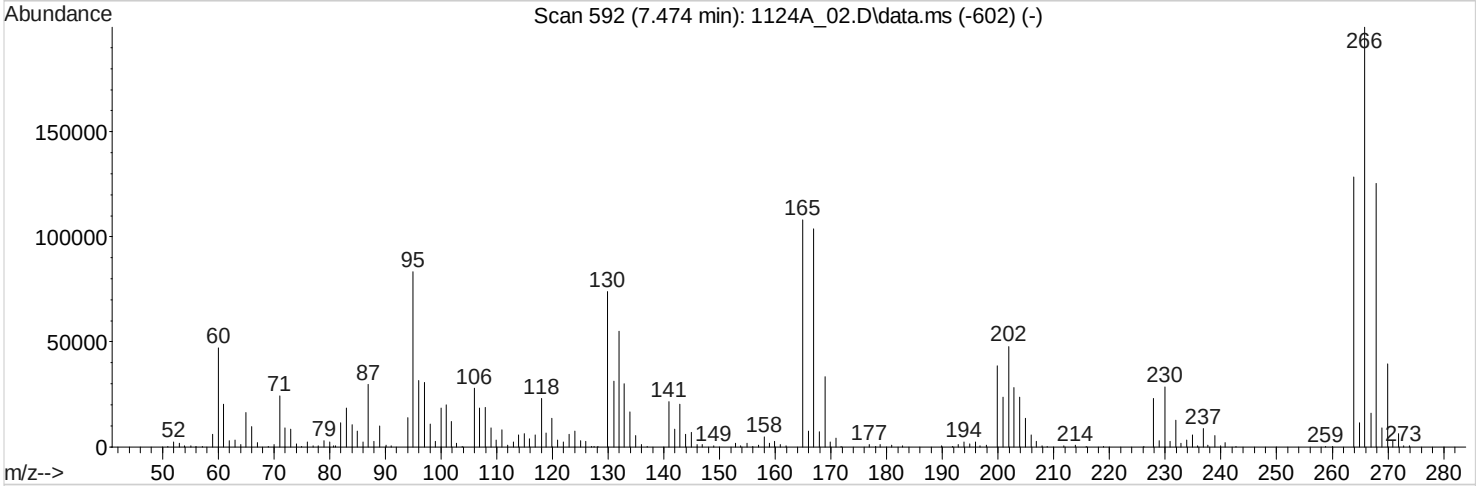


Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\DATA\112414A\
Data File : 1124A 02.D
Acq On    : 25 Nov 2014  12:20 am
Operator  : 280
Sample    : TUNE DFTPP 2 PPM 14J03433
Misc      : DFTPP TUNE 14J03433
ALS Vial  : 2   Sample Multiplier: 1
InstName  : BNAMS14

Quant Time: Nov 25 00:38:14 2014
Quant Method : C:\msdchem\1\METHODS\TUNE525.M
Quant Title  :
QLast Update : Thu Jun 05 10:52:45 2014
Response via : Initial Calibration
DataAcq Meth:PAHMN.M
```





(1) Pentachlorophenol (T)

7.476min (-0.084) 0.2919704 ppm

Qvalue = 100

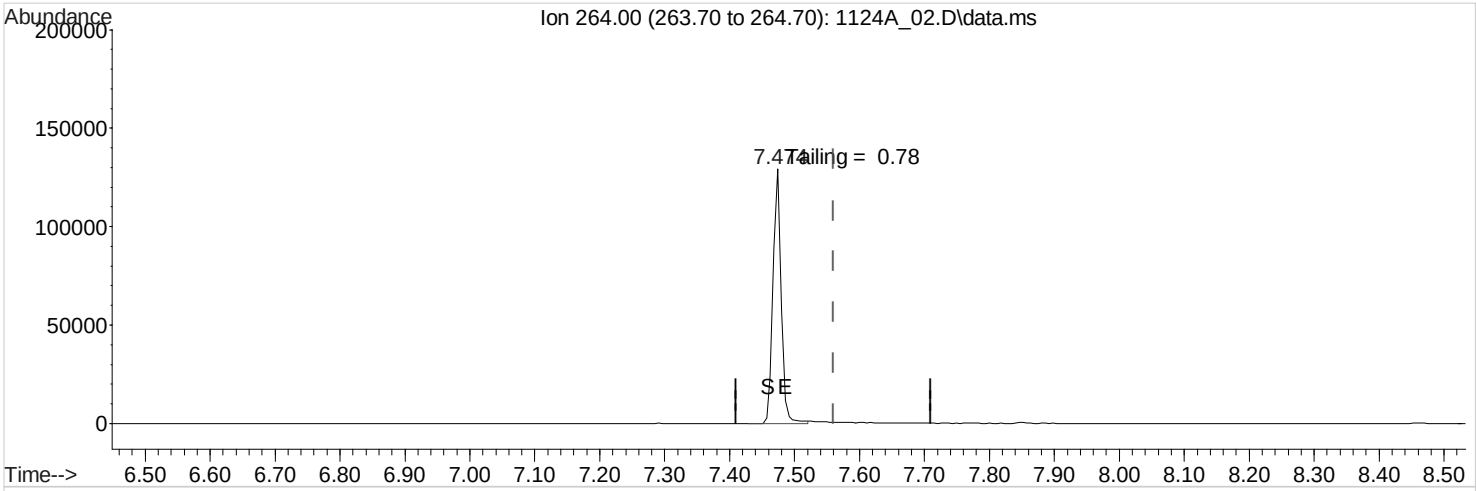
response 1096364

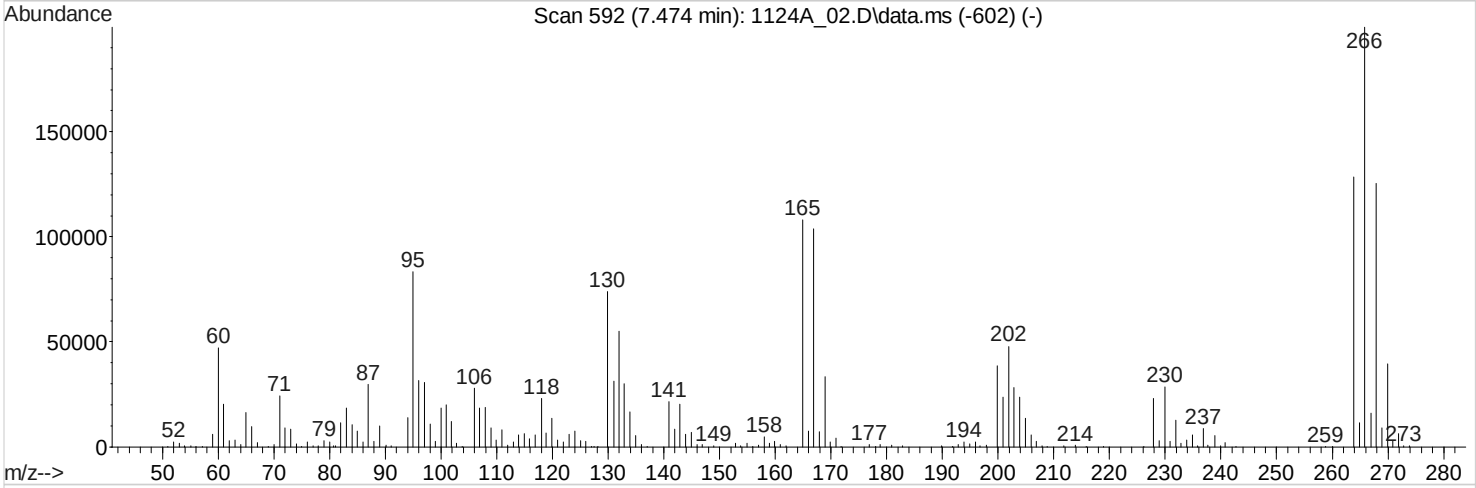
Ion	Exp%	Act%
264.00	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\DATA\112414A\
Data File : 1124A 02.D
Acq On    : 25 Nov 2014  12:20 am
Operator  : 280
Sample    : TUNE DFTPP 2 PPM 14J03433
Misc      : DFTPP TUNE 14J03433
ALS Vial  : 2   Sample Multiplier: 1
InstName  : BNAMS14

Quant Time: Nov 25 00:38:14 2014
Quant Method : C:\msdchem\1\METHODS\TUNE525.M
Quant Title  :
QLast Update : Thu Jun 05 10:52:45 2014
Response via : Initial Calibration
DataAcq Meth:PAHMN.M
```





(1) Pentachlorophenol (T)

7.476min (-0.084) 0.2919704 ppm

Qvalue = 100

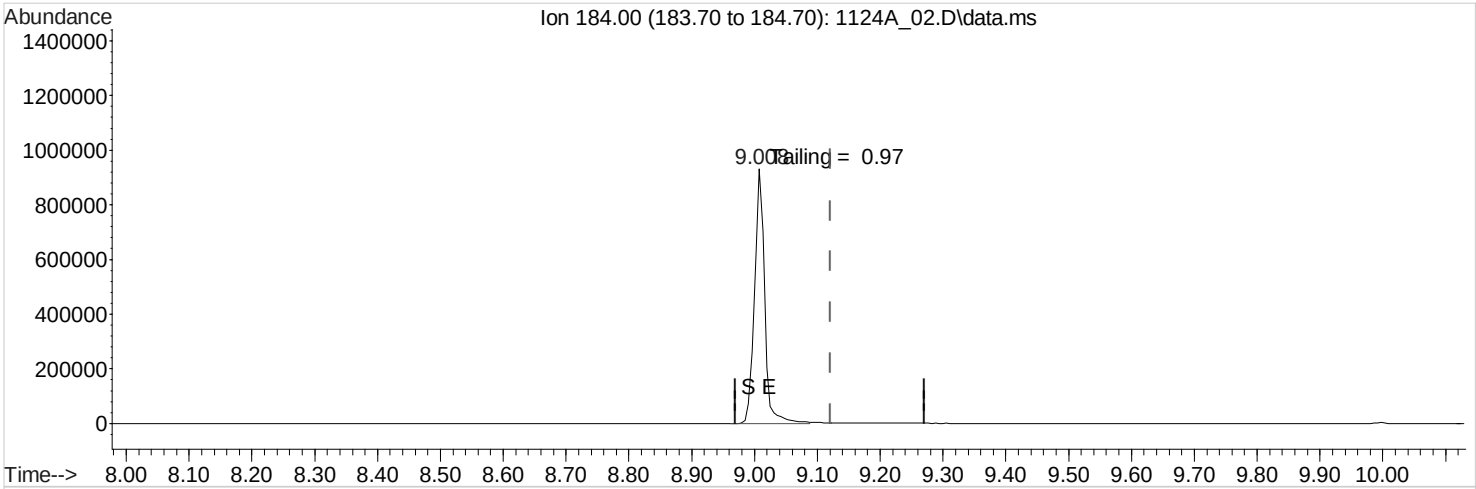
response 1096364

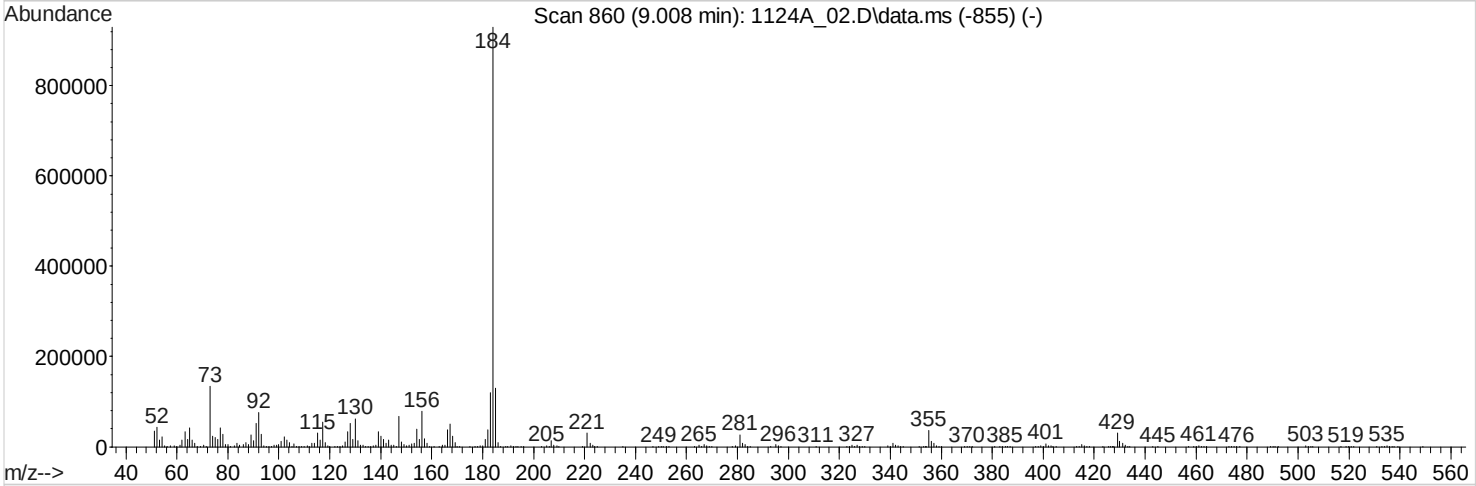
Ion	Exp%	Act%
264.00	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\112414A\
Data File : 1124A 02.D
Acq On : 25 Nov 2014 12:20 am
Operator : 280
Sample : TUNE DFTPP 2 PPM 14J03433
Misc : DFTPP TUNE 14J03433
ALS Vial : 2 Sample Multiplier: 1
InstName : BNAMS14

Quant Time: Nov 25 00:38:14 2014
Quant Method : C:\msdchem\1\METHODS\TUNE525.M
Quant Title :
QLast Update : Thu Jun 05 10:52:45 2014
Response via : Initial Calibration
DataAcq Meth:PAHMN.M





TIC: 1124A_02.D\data.ms

(3) Benzidine (T)

9.010min (-0.110) 0.4174240 ppm

Qvalue = 100

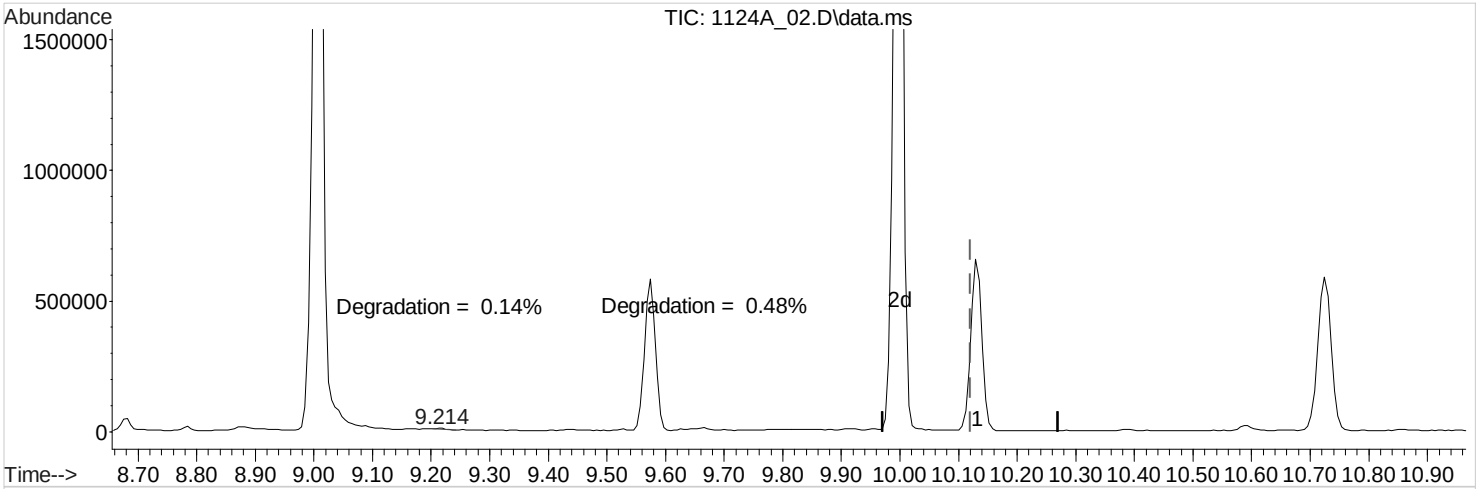
response 10352875

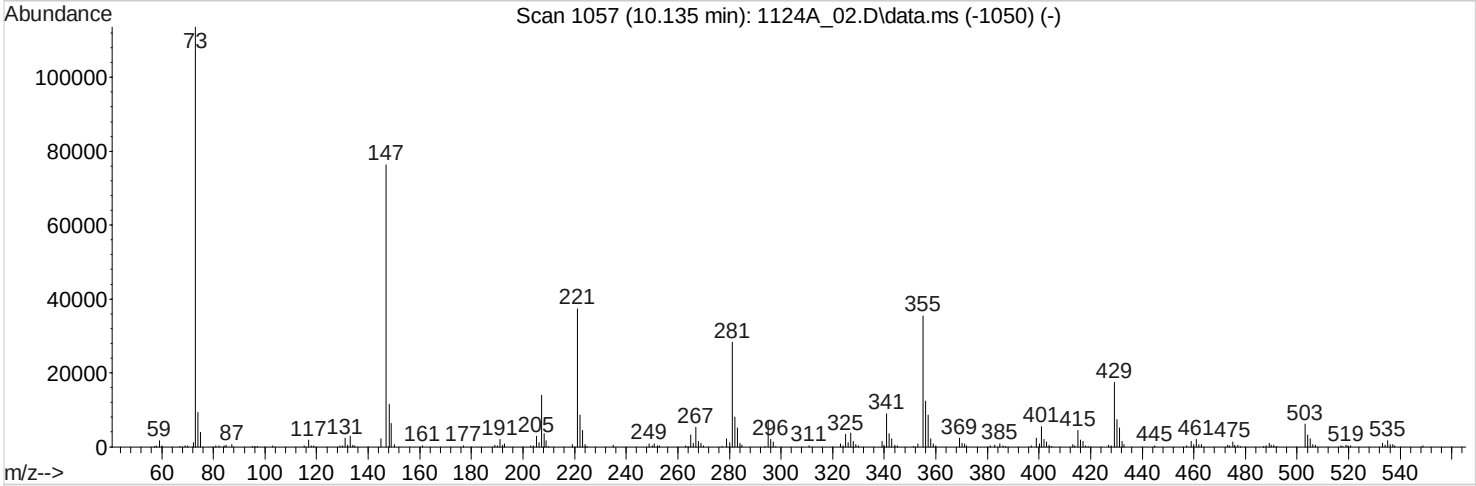
Ion	Exp%	Act%
184.00	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\112414A\
Data File : 1124A 02.D
Acq On : 25 Nov 2014 12:20 am
Operator : 280
Sample : TUNE DFTPP 2 PPM 14J03433
Misc : DFTPP TUNE 14J03433
ALS Vial : 2 Sample Multiplier: 1
InstName : BNAMS14

Quant Time: Nov 25 00:38:14 2014
Quant Method : C:\msdchem\1\METHODS\TUNE525.M
Quant Title :
QLast Update : Thu Jun 05 10:52:45 2014
Response via : Initial Calibration
DataAcq Meth:PAHMN.M





TIC: 1124A_02.D\data.ms

(4) DDT (T)

10.133min (+0.013) 0.4001408 ppm

Qvalue = 100

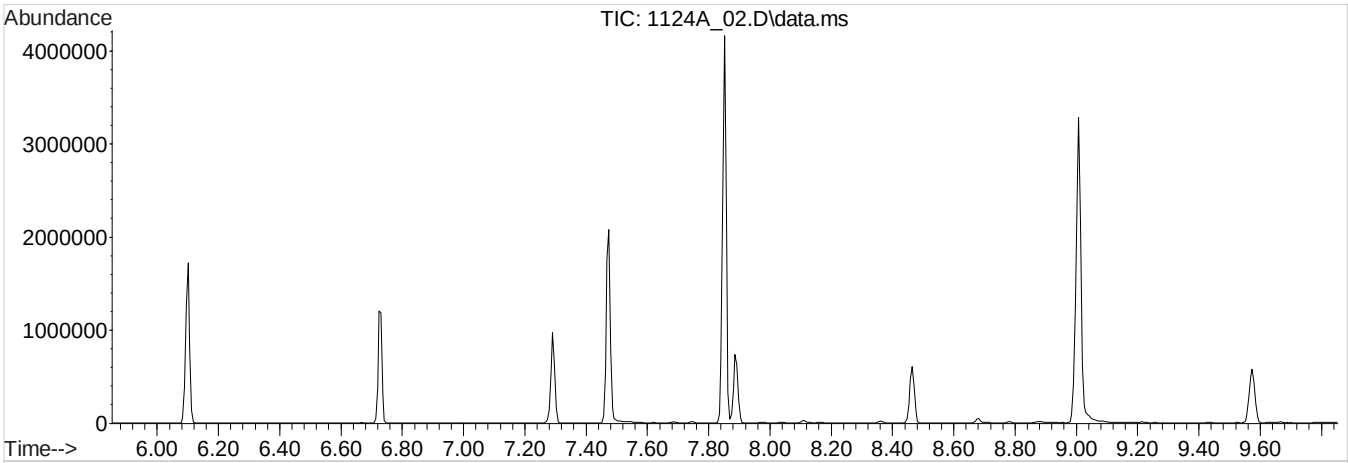
response 8568065

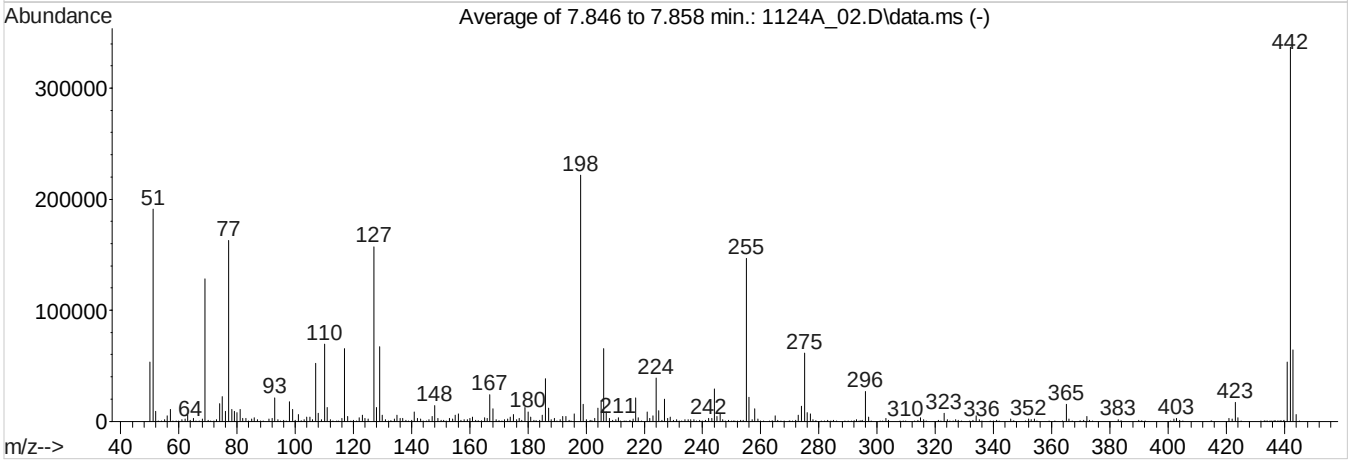
Signal	Exp%	Act%
TIC	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Data Path : C:\msdchem\1\DATA\112414A\
Data File : 1124A 02.D
Acq On : 25 Nov 2014 12:20 am
Operator : 280
Sample : TUNE DFTPP 2 PPM 14J03433
Misc : DFTPP TUNE 14J03433
ALS Vial : 2 Sample Multiplier: 1

Integration File: events.e

Method : C:\msdchem\1\METHODS\TUNE525.M
Title :
Last Update : Thu Jun 05 10:52:45 2014





AutoFind: Scans 657, 658, 659; Background Corrected with Scan 651

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	442	10	80	56.7	191139	PASS
68	69	0.00	2	1.7	2150	PASS
69	69	0.00	200	100.0	128051	PASS
70	69	0.00	2	0.7	866	PASS
127	442	10	80	46.6	157008	PASS
197	198	0.00	2	0.0	0	PASS
198	442	50	100	65.8	221803	PASS
199	198	5	9	7.0	15540	PASS
275	442	10	60	18.3	61515	PASS
365	442	1	100	4.5	15160	PASS
441	443	0.01	100	83.2	53408	PASS
442	442	50	100	100.0	337067	PASS
443	442	15	24	19.0	64203	PASS

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\112414A\
Data File : 1124A 03.D
Acq On : 25 Nov 2014 12:41 am
Operator : 280
Sample : ICV SIMLVI 40 PPB 14I18662
Misc : SIM/PAH STD
ALS Vial : 3 Sample Multiplier: 1
InstName : BNAMS14

Quant Time: Nov 25 01:05:50 2014
Quant Method : C:\msdchem\1\METHODS\SS14K11N.M
Quant Title : 8270 BNA
QLast Update : Tue Nov 11 17:05:52 2014
Response via : Initial Calibration
DataAcq Meth:SIMMN.M

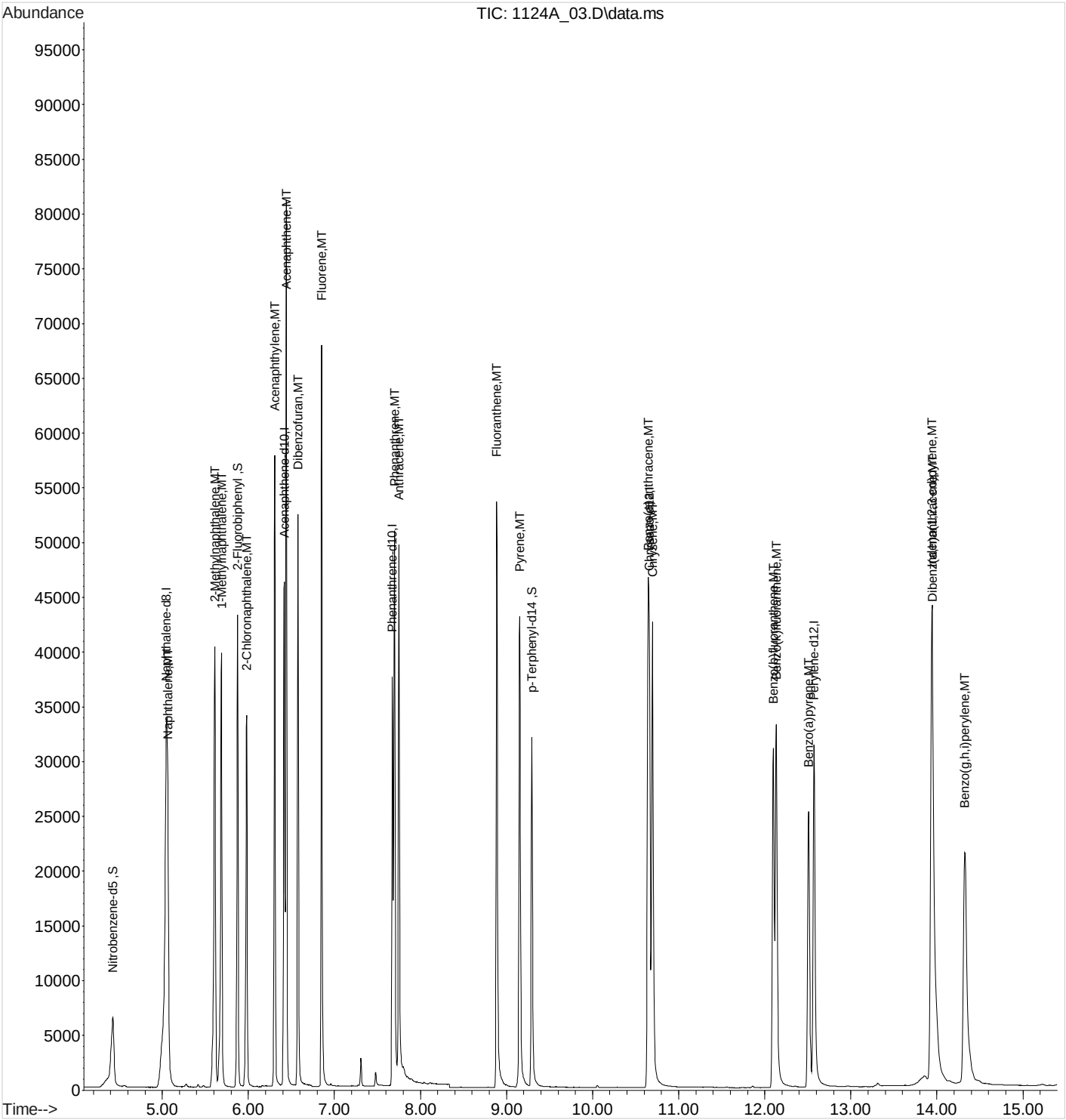
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Naphthalene-d8	5.045	136	40711	40.0000000	ppb	0.00
6) Acenaphthene-d10	6.417	164	22367	40.0000000	ppb	0.00
13) Phenanthrene-d10	7.673	188	34302	40.0000000	ppb	0.00
17) Chrysene-d12	10.659	240	35844	40.0000000	ppb	0.00
22) Perylene-d12	12.573	264	39579	40.0000000	ppb	0.01
System Monitoring Compounds						
2) Nitrobenzene-d5	4.426	82	12350	37.3458003	ppb	0.00
Spiked Amount 2.000	Range 45 - 170		Recovery = 1867.29%#			
7) 2-Fluorobiphenyl	5.876	172	29270	37.1338684	ppb	0.00
Spiked Amount 2.000	Range 58 - 153		Recovery = 1856.69%#			
19) p-Terphenyl-d14	9.295	244	31124	36.2426249	ppb	0.00
Spiked Amount 2.000	Range 53 - 156		Recovery = 1812.13%#			
Target Compounds						Qvalue
3) Naphthalene	5.064	128	44998	39.4179351	ppb	100
4) 2-Methylnaphthalene	5.610	142	27339	37.6456845	ppb	99
5) 1-Methylnaphthalene	5.688	142	25712	37.9516842	ppb	100
8) 2-Chloronaphthalene	5.981	162	27110	36.9676539	ppb	98
9) Acenaphthylene	6.308	152	39413	36.7079809	ppb	99
10) Acenaphthene	6.440	153	28185	37.5722949	ppb	98
11) Dibenzofuran	6.579	168	34740	36.4050717	ppb	96
12) Fluorene	6.852	166	29682	36.2630416	ppb	99
14) Phenanthrene	7.697	178	38423	35.4864996	ppb	99
15) Anthracene	7.748	178	40709	39.2112584	ppb	99
16) Fluoranthene	8.885	202	41978	36.9853146	ppb	98
18) Pyrene	9.154	202	38568	36.0091567	ppb	99
20) Benzo(a)anthracene	10.645	228	38779	35.9948036	ppb	99
21) Chrysene	10.695	228	40176	36.7297061	ppb	100
23) Benzo(b)fluoranthene	12.100	252	38221	35.8314286	ppb	99
24) Benzo(k)fluoranthene	12.132	252	43024	36.9072628	ppb	98
25) Benzo(a)pyrene	12.509	252	36124	37.4217694	ppb	96
26) Indeno(1,2,3-cd)pyrene	13.939	276	49937	36.8863891	ppb	96
27) Dibenz(a,h)anthracene	13.950	278	41861	36.5759302	ppb	96
28) Benzo(g,h,i)perylene	14.324	276	41340	37.4131042	ppb	94

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\112414A\
Data File : 1124A 03.D
Acq On : 25 Nov 2014 12:41 am
Operator : 280
Sample : ICV SIMLVI 40 PPB 14I18662
Misc : SIM/PAH STD
ALS Vial : 3 Sample Multiplier: 1
InstName : BNAMS14

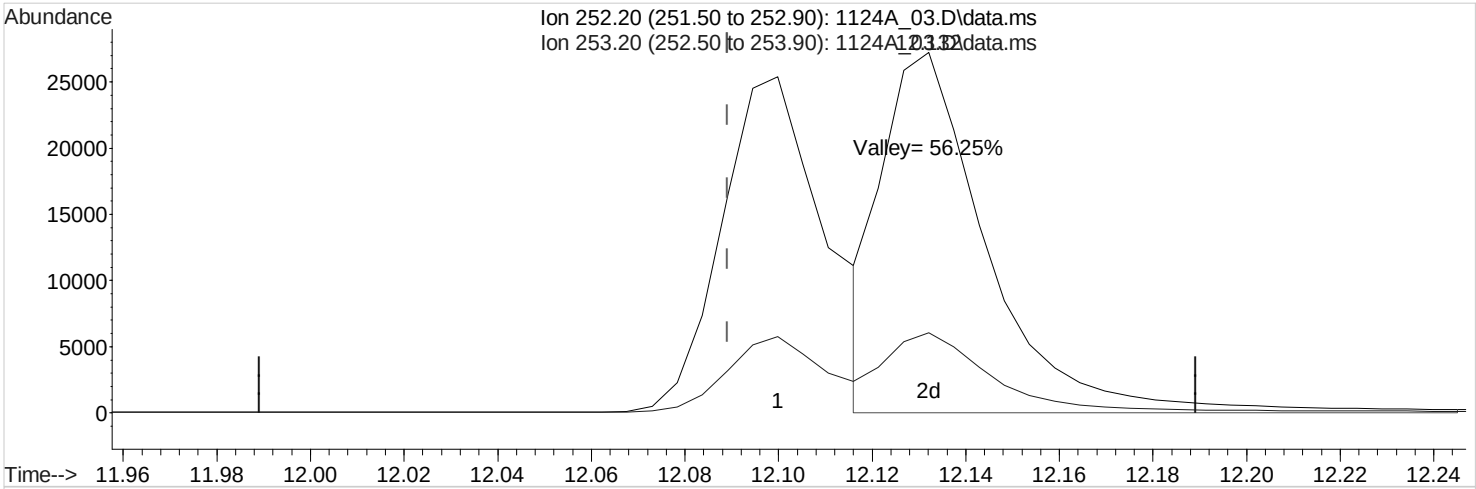
Quant Time: Nov 25 01:05:50 2014
Quant Method : C:\msdchem\1\METHODS\SS14K11N.M
Quant Title : 8270 BNA
QLast Update : Tue Nov 11 17:05:52 2014
Response via : Initial Calibration
DataAcq Meth:SIMMN.M

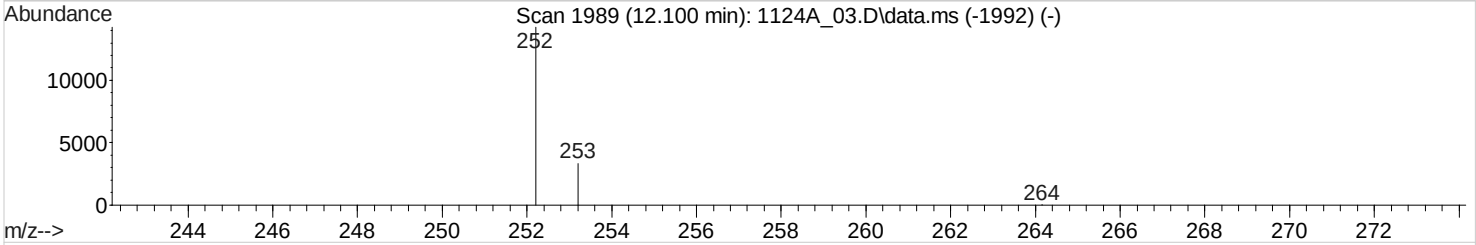


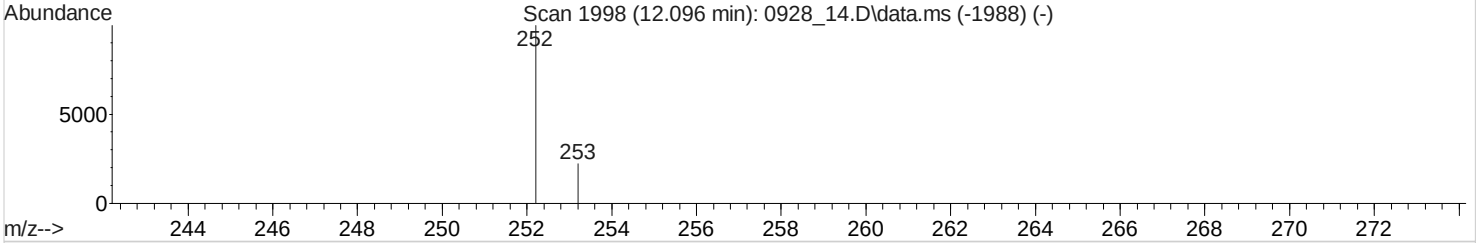
Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\DATA\112414A\
Data File : 1124A 03.D
Acq On    : 25 Nov 2014  12:41 am
Operator  : 280
Sample    : ICV SIMLVI 40 PPB 14I18662
Misc      : SIM/PAH STD
ALS Vial  : 3   Sample Multiplier: 1
InstName  : BNAMS14

Quant Time: Nov 25 01:05:50 2014
Quant Method : C:\msdchem\1\METHODS\SS14K11N.M
Quant Title  : 8270 BNA
QLast Update : Tue Nov 11 17:05:52 2014
Response via : Initial Calibration
DataAcq Meth:SIMMN.M
```







TIC: 1124A_03.D\data.ms

(23) Benzo(b)fluoranthene (MT)

12.100min (+0.011) 35.8314286 ppb

Qvalue = 99

response 38221

Ion	Exp%	Act%
252.20	100	100
253.20	22.10	22.36
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\112414A\
Data File : 1124A 05.D
Acq On : 25 Nov 2014 1:59 am
Operator : 280
Sample : LCS 1x WG756543 100-5
Misc : water 14K21141/14K03077
ALS Vial : 44 Sample Multiplier: 0.05
InstName : BNAMS14

Quant Time: Nov 25 11:04:52 2014
Quant Method : C:\msdchem\1\METHODS\SS14K11N.M
Quant Title : 8270 BNA
QLast Update : Tue Nov 11 17:05:52 2014
Response via : Initial Calibration
DataAcq Meth:SIMMN.M

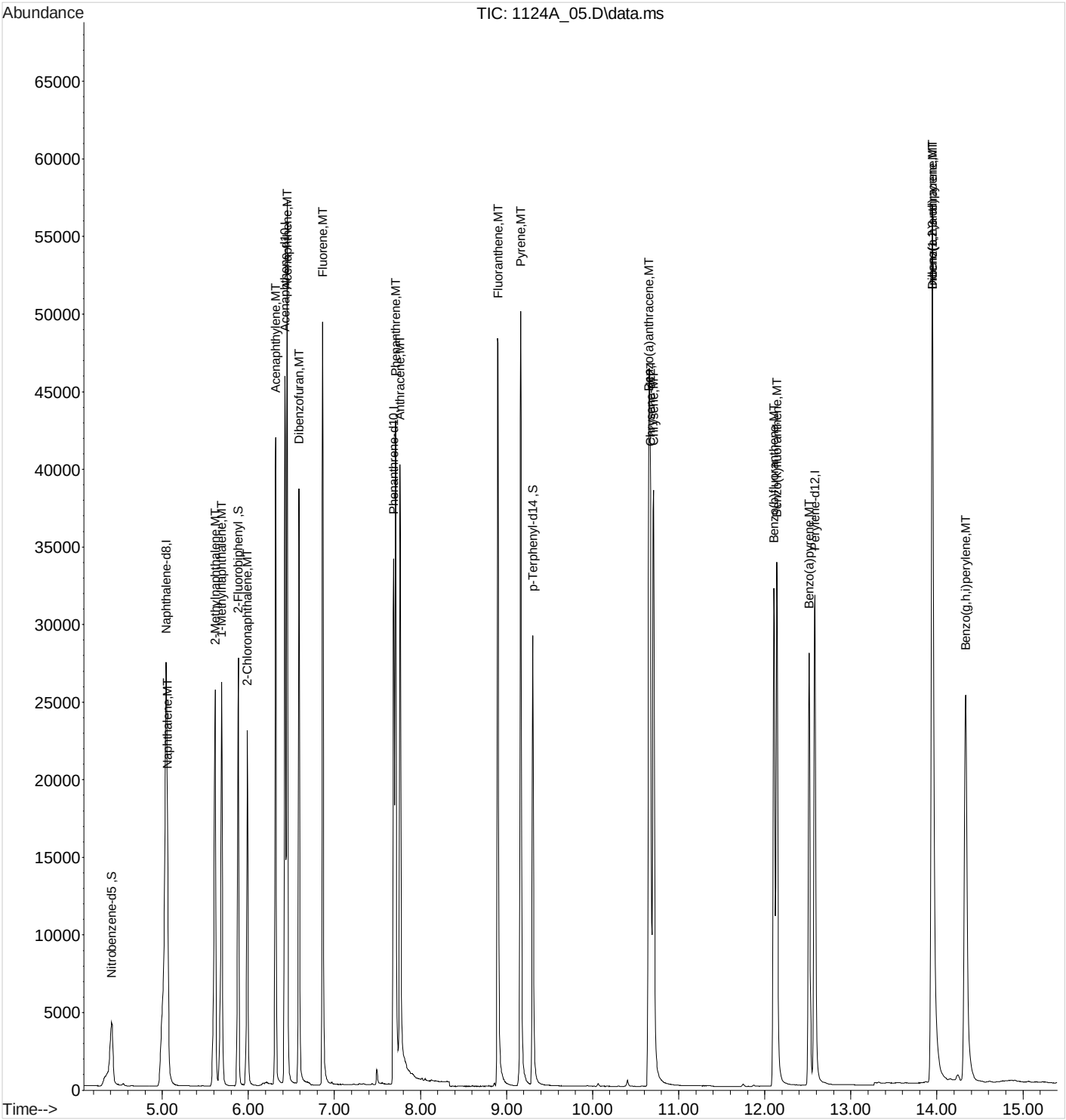
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Naphthalene-d8	5.042	136	38481	40.0000000	ppb	0.00
6) Acenaphthene-d10	6.425	164	22044	40.0000000	ppb	0.00
13) Phenanthrene-d10	7.689	188	32482	40.0000000	ppb	0.01
17) Chrysene-d12	10.672	240	33521	40.0000000	ppb	0.01
22) Perylene-d12	12.584	264	37698	40.0000000	ppb	0.02
System Monitoring Compounds						
2) Nitrobenzene-d5	4.411	82	8759	1.4010859	ppb	-0.02
Spiked Amount 2.000	Range 45 - 170		Recovery = 70.05%			
7) 2-Fluorobiphenyl	5.884	172	20787	1.3379092	ppb	0.00
Spiked Amount 2.000	Range 58 - 153		Recovery = 66.90%			
19) p-Terphenyl-d14	9.303	244	27953	1.7402922	ppb	0.01
Spiked Amount 2.000	Range 53 - 156		Recovery = 87.01%			
Target Compounds						Qvalue
3) Naphthalene	5.060	128	27855	1.2907414	ppb	99
4) 2-Methylnaphthalene	5.614	142	18962	1.3811859	ppb	97
5) 1-Methylnaphthalene	5.692	142	18470	1.4421071	ppb	99
8) 2-Chloronaphthalene	5.989	162	18133	1.2544385	ppb	98
9) Acenaphthylene	6.319	152	28971	1.3689003	ppb	99
10) Acenaphthene	6.451	153	20902	1.4135946	ppb	98
11) Dibenzofuran	6.590	168	26524	1.4101277	ppb	97
12) Fluorene	6.864	166	23041	1.4281037	ppb	99
14) Phenanthrene	7.712	178	32392	1.5796335	ppb	99
15) Anthracene	7.764	178	34575	1.7584467	ppb	100
16) Fluoranthene	8.900	202	39294	1.8280181	ppb	99
18) Pyrene	9.165	202	41045	2.0488756	ppb	98
20) Benzo(a)anthracene	10.654	228	36056	1.7893292	ppb	97
21) Chrysene	10.709	228	37040	1.8104696	ppb	100
23) Benzo(b)fluoranthene	12.105	252	35274	1.7359344	ppb	99
24) Benzo(k)fluoranthene	12.137	252	39841	1.7941047	ppb	99
25) Benzo(a)pyrene	12.514	252	33297	1.8107150	ppb	97
26) Indeno(1,2,3-cd)pyrene	13.945	276	47590	1.8453379	ppb	97
27) Dibenz(a,h)anthracene	13.950	278	39860	1.8282669	ppb	97
28) Benzo(g,h,i)perylene	14.335	276	38938	1.8498794	ppb	92

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\112414A\
Data File : 1124A 05.D
Acq On : 25 Nov 2014 1:59 am
Operator : 280
Sample : LCS 1x WG756543 100-5
Misc : water 14K21141/14K03077
ALS Vial : 44 Sample Multiplier: 0.05
InstName : BNAMS14

Quant Time: Nov 25 11:04:52 2014
Quant Method : C:\msdchem\1\METHODS\SS14K11N.M
Quant Title : 8270 BNA
QLast Update : Tue Nov 11 17:05:52 2014
Response via : Initial Calibration
DataAcq Meth:SIMMN.M



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\112414A\
Data File : 1124A 06.D
Acq On : 25 Nov 2014 2:20 am
Operator : 280
Sample : LCSD 1x WG756543 100-5
Misc : water 14K21141/14K03077
ALS Vial : 45 Sample Multiplier: 0.05
InstName : BNAMS14

Quant Time: Nov 25 11:05:40 2014
Quant Method : C:\msdchem\1\METHODS\SS14K11N.M
Quant Title : 8270 BNA
QLast Update : Tue Nov 11 17:05:52 2014
Response via : Initial Calibration
DataAcq Meth:SIMMN.M

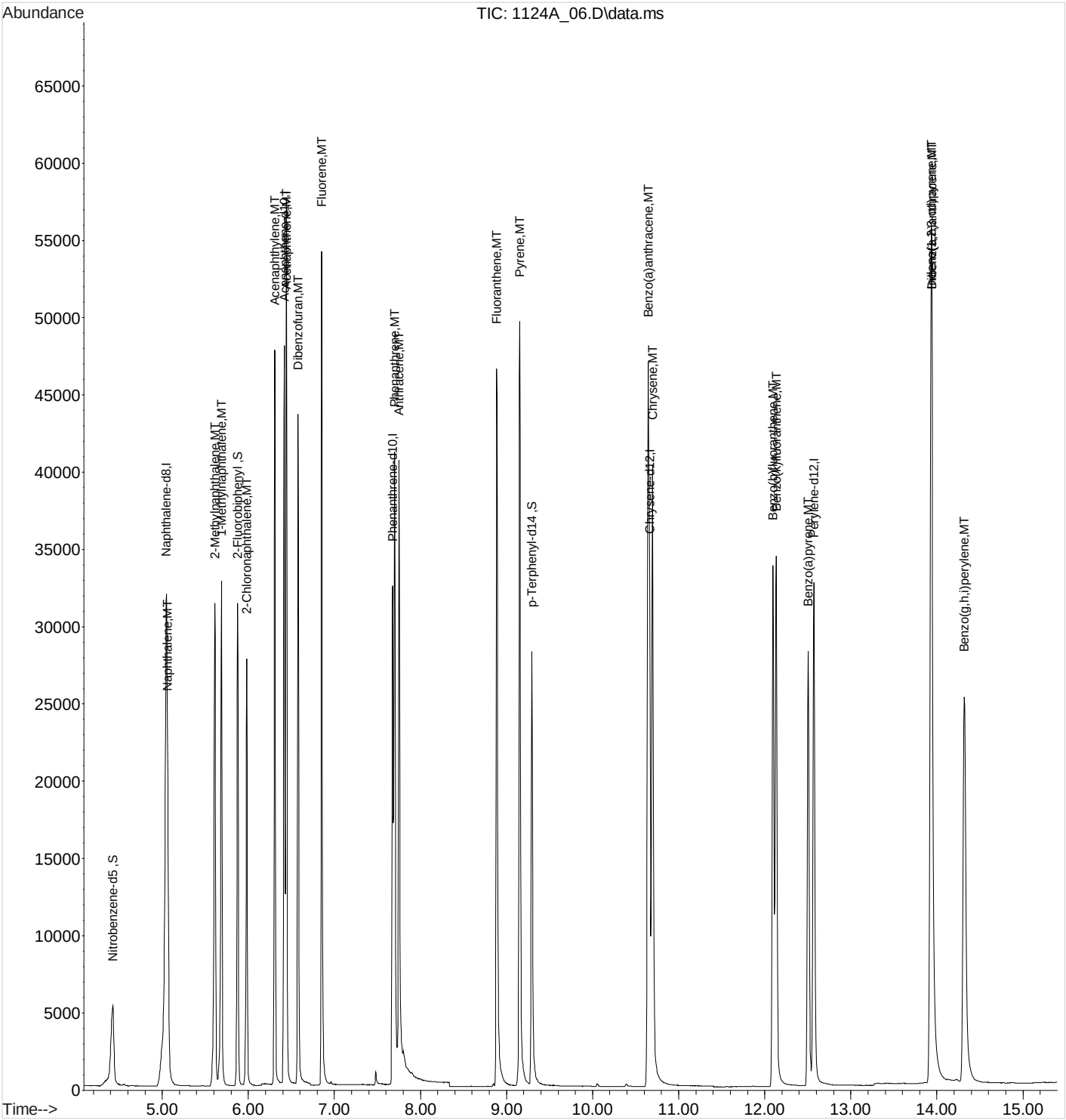
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Naphthalene-d8	5.045	136	39865	40.0000000	ppb	0.00
6) Acenaphthene-d10	6.417	164	22395	40.0000000	ppb	0.00
13) Phenanthrene-d10	7.677	188	32317	40.0000000	ppb	0.00
17) Chrysene-d12	10.663	240	33991	40.0000000	ppb	0.00
22) Perylene-d12	12.573	264	38235	40.0000000	ppb	0.01
System Monitoring Compounds						
2) Nitrobenzene-d5	4.426	82	9527	1.4710282	ppb	0.00
Spiked Amount 2.000	Range 45 - 170		Recovery = 73.55%			
7) 2-Fluorobiphenyl	5.876	172	22439	1.4216008	ppb	0.00
Spiked Amount 2.000	Range 58 - 153		Recovery = 71.08%			
19) p-Terphenyl-d14	9.295	244	28328	1.7392527	ppb	0.00
Spiked Amount 2.000	Range 53 - 156		Recovery = 86.96%			
Target Compounds						Qvalue
3) Naphthalene	5.060	128	30191	1.3504178	ppb	100
4) 2-Methylnaphthalene	5.610	142	20640	1.4512167	ppb	96
5) 1-Methylnaphthalene	5.688	142	20090	1.5141369	ppb	98
8) 2-Chloronaphthalene	5.981	162	19631	1.3367847	ppb	100
9) Acenaphthylene	6.308	152	31779	1.4780458	ppb	99
10) Acenaphthene	6.443	153	22180	1.4765151	ppb	98
11) Dibenzofuran	6.579	168	28240	1.4778265	ppb	92
12) Fluorene	6.852	166	23965	1.4620936	ppb	98
14) Phenanthrene	7.701	178	32127	1.5747096	ppb	99
15) Anthracene	7.752	178	36626	1.8722690	ppb	99
16) Fluoranthene	8.885	202	39981	1.8694749	ppb	98
18) Pyrene	9.154	202	42039	2.0694777	ppb	99
20) Benzo(a)anthracene	10.645	228	37369	1.8288463	ppb	99
21) Chrysene	10.695	228	38418	1.8518595	ppb	99
23) Benzo(b)fluoranthene	12.094	252	35829	1.7384832	ppb	99
24) Benzo(k)fluoranthene	12.132	252	41263	1.8320426	ppb	97
25) Benzo(a)pyrene	12.503	252	34836	1.8678005	ppb	98
26) Indeno(1,2,3-cd)pyrene	13.934	276	48260	1.8450356	ppb	97
27) Dibenz(a,h)anthracene	13.939	278	40160	1.8161563	ppb	99
28) Benzo(g,h,i)perylene	14.319	276	39179	1.8351871	ppb	96

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\112414A\
Data File : 1124A 06.D
Acq On : 25 Nov 2014 2:20 am
Operator : 280
Sample : LCSD 1x WG756543 100-5
Misc : water 14K21141/14K03077
ALS Vial : 45 Sample Multiplier: 0.05
InstName : BNAMS14

Quant Time: Nov 25 11:05:40 2014
Quant Method : C:\msdchem\1\METHODS\SS14K11N.M
Quant Title : 8270 BNA
QLast Update : Tue Nov 11 17:05:52 2014
Response via : Initial Calibration
DataAcq Meth:SIMMN.M



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\112414A\
Data File : 1124A 07.D
Acq On : 25 Nov 2014 2:41 am
Operator : 280
Sample : BLANK 1x WG756543 100-5
Misc : water 14K21141/14K03077
ALS Vial : 46 Sample Multiplier: 0.05
InstName : BNAMS14

Quant Time: Nov 25 11:06:15 2014
Quant Method : C:\msdchem\1\METHODS\SS14K11N.M
Quant Title : 8270 BNA
QLast Update : Tue Nov 11 17:05:52 2014
Response via : Initial Calibration
DataAcq Meth:SIMMN.M

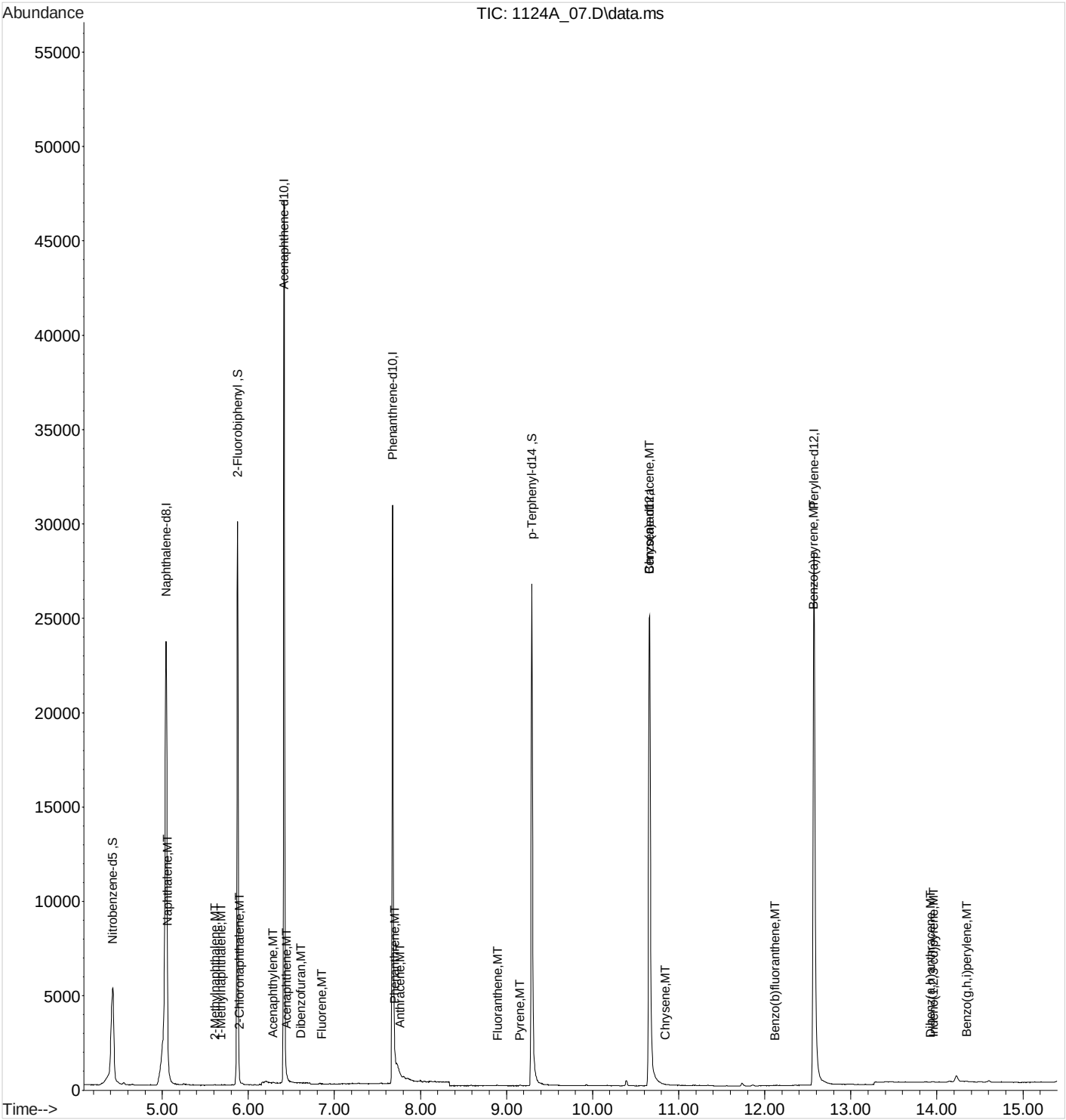
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Naphthalene-d8	5.045	136	40195	40.0000000	ppb	0.00
6) Acenaphthene-d10	6.413	164	22154	40.0000000	ppb	0.00
13) Phenanthrene-d10	7.677	188	32475	40.0000000	ppb	0.00
17) Chrysene-d12	10.659	240	32665	40.0000000	ppb	0.00
22) Perylene-d12	12.573	264	36041	40.0000000	ppb	0.01
System Monitoring Compounds						
2) Nitrobenzene-d5	4.423	82	9051	1.3860571	ppb	-0.01
Spiked Amount 2.000	Range 45 - 170		Recovery = 69.30%			
7) 2-Fluorobiphenyl	5.876	172	21115	1.3522723	ppb	0.00
Spiked Amount 2.000	Range 58 - 153		Recovery = 67.61%			
19) p-Terphenyl-d14	9.295	244	27494	1.7565721	ppb	0.00
Spiked Amount 2.000	Range 53 - 156		Recovery = 87.83%			
Target Compounds						Qvalue
3) Naphthalene	5.060	128	333	0.0147725	ppb	96
4) 2-Methylnaphthalene	5.610	142	19	0.0013249	ppb	83
5) 1-Methylnaphthalene	5.684	142	17m	0.0012707	ppb	
8) 2-Chloronaphthalene	5.895	162	2	0.0001377	ppb	71
9) Acenaphthylene	6.285	152	27	0.0012694	ppb	76
10) Acenaphthene	6.443	153	13	0.0008748	ppb #	1
11) Dibenzofuran	6.613	168	5	0.0002645	ppb	79
12) Fluorene	6.852	166	14	0.0008634	ppb	82
14) Phenanthrene	7.701	178	75	0.0036583	ppb	98
15) Anthracene	7.760	178	2	0.0001017	ppb	94
16) Fluoranthene	8.893	202	38	0.0017682	ppb	95
18) Pyrene	9.154	202	48	0.0024588	ppb	95
20) Benzo(a)anthracene	10.659	228	141	0.0071807	ppb	81
21) Chrysene	10.841	228	9	0.0004514	ppb	84
23) Benzo(b)fluoranthene	12.116	252	30	0.0015443	ppb	76
24) Benzo(k)fluoranthene	0.000		0	N.D. d		
25) Benzo(a)pyrene	12.568	252	129	0.0073376	ppb	73
26) Indeno(1,2,3-cd)pyrene	13.961	276	19	0.0007706	ppb #	15
27) Dibenz(a,h)anthracene	13.923	278	2	0.0000960	ppb #	1
28) Benzo(g,h,i)perylene	14.346	276	32	0.0015902	ppb #	56

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\112414A\
Data File : 1124A 07.D
Acq On : 25 Nov 2014 2:41 am
Operator : 280
Sample : BLANK 1x WG756543 100-5
Misc : water 14K21141/14K03077
ALS Vial : 46 Sample Multiplier: 0.05
InstName : BNAMS14

Quant Time: Nov 25 11:06:15 2014
Quant Method : C:\msdchem\1\METHODS\SS14K11N.M
Quant Title : 8270 BNA
QLast Update : Tue Nov 11 17:05:52 2014
Response via : Initial Calibration
DataAcq Meth:SIMMN.M



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\112414A\
Data File : 1124A 18.D
Acq On : 25 Nov 2014 6:28 am
Operator : 280
Sample : L735181-02 1x WG756543 100-5
Misc : water 14K21141/14K03077
ALS Vial : 57 Sample Multiplier: 0.05
InstName : BNAMS14

Quant Time: Nov 25 11:10:39 2014
Quant Method : C:\msdchem\1\METHODS\SS14K11N.M
Quant Title : 8270 BNA
QLast Update : Tue Nov 11 17:05:52 2014
Response via : Initial Calibration
DataAcq Meth:SIMMN.M

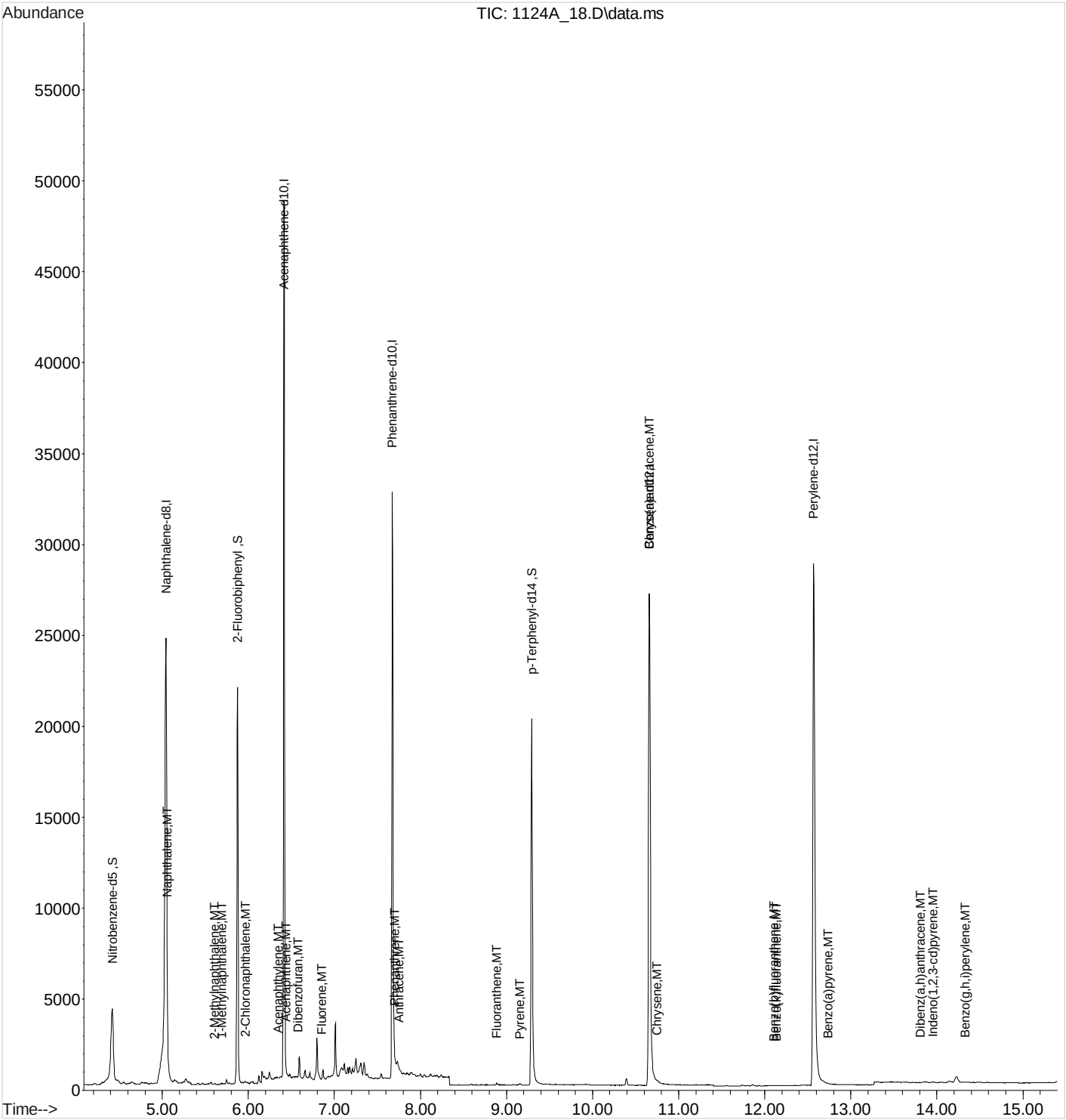
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Naphthalene-d8	5.042	136	38941	40.0000000	ppb		0.00
6) Acenaphthene-d10	6.413	164	21390	40.0000000	ppb		0.00
13) Phenanthrene-d10	7.673	188	31313	40.0000000	ppb		0.00
17) Chrysene-d12	10.659	240	33871	40.0000000	ppb		0.00
22) Perylene-d12	12.568	264	38134	40.0000000	ppb		0.00
System Monitoring Compounds							
2) Nitrobenzene-d5	4.419	82	6352	1.0040607	ppb		-0.01
Spiked Amount 2.000	Range 45 - 170		Recovery = 50.20%				
7) 2-Fluorobiphenyl	5.876	172	14718	0.9762549	ppb		0.00
Spiked Amount 2.000	Range 58 - 153		Recovery = 48.81%#				
19) p-Terphenyl-d14	9.292	244	19748	1.2167625	ppb		0.00
Spiked Amount 2.000	Range 53 - 156		Recovery = 60.84%				
Target Compounds							Qvalue
3) Naphthalene	5.057	128	475	0.0217505	ppb	#	16
4) 2-Methylnaphthalene	5.606	142	31	0.0022314	ppb		98
5) 1-Methylnaphthalene	5.688	142	42m	0.0032406	ppb		
8) 2-Chloronaphthalene	5.966	162	42	0.0029944	ppb		76
9) Acenaphthylene	6.349	152	15	0.0007304	ppb		80
10) Acenaphthene	6.436	153	21	0.0014636	ppb	#	74
11) Dibenzofuran	6.575	168	31	0.0016985	ppb		68
12) Fluorene	6.852	166	17	0.0010859	ppb	#	9
14) Phenanthrene	7.697	178	71	0.0035917	ppb		97
15) Anthracene	7.748	178	13	0.0006858	ppb		77
16) Fluoranthene	8.885	202	83	0.0040054	ppb		96
18) Pyrene	9.154	202	83	0.0041004	ppb		71
20) Benzo(a)anthracene	10.659	228	115	0.0056481	ppb		67
21) Chrysene	10.745	228	3	0.0001451	ppb		73
23) Benzo(b)fluoranthene	12.105	252	22	0.0010703	ppb		94
24) Benzo(k)fluoranthene	12.132	252	9	0.0004007	ppb	#	23
25) Benzo(a)pyrene	12.734	252	6	0.0003226	ppb		73
26) Indeno(1,2,3-cd)pyrene	13.956	276	31	0.0011883	ppb	#	1
27) Dibenz(a,h)anthracene	13.809	278	5	0.0002267	ppb		91
28) Benzo(g,h,i)perylene	14.330	276	6	0.0002818	ppb	#	48

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\112414A\
Data File : 1124A 18.D
Acq On : 25 Nov 2014 6:28 am
Operator : 280
Sample : L735181-02 1x WG756543 100-5
Misc : water 14K21141/14K03077
ALS Vial : 57 Sample Multiplier: 0.05
InstName : BNAMS14

Quant Time: Nov 25 11:10:39 2014
Quant Method : C:\msdchem\1\METHODS\SS14K11N.M
Quant Title : 8270 BNA
QLast Update : Tue Nov 11 17:05:52 2014
Response via : Initial Calibration
DataAcq Meth:SIMMN.M



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\112414A\
Data File : 1124A 19.D
Acq On : 25 Nov 2014 6:49 am
Operator : 280
Sample : L735181-05 1x WG756543 100-5
Misc : water 14K21141/14K03077
ALS Vial : 58 Sample Multiplier: 0.05
InstName : BNAMS14

Quant Time: Nov 25 11:12:00 2014
Quant Method : C:\msdchem\1\METHODS\SS14K11N.M
Quant Title : 8270 BNA
QLast Update : Tue Nov 11 17:05:52 2014
Response via : Initial Calibration
DataAcq Meth:SIMMN.M

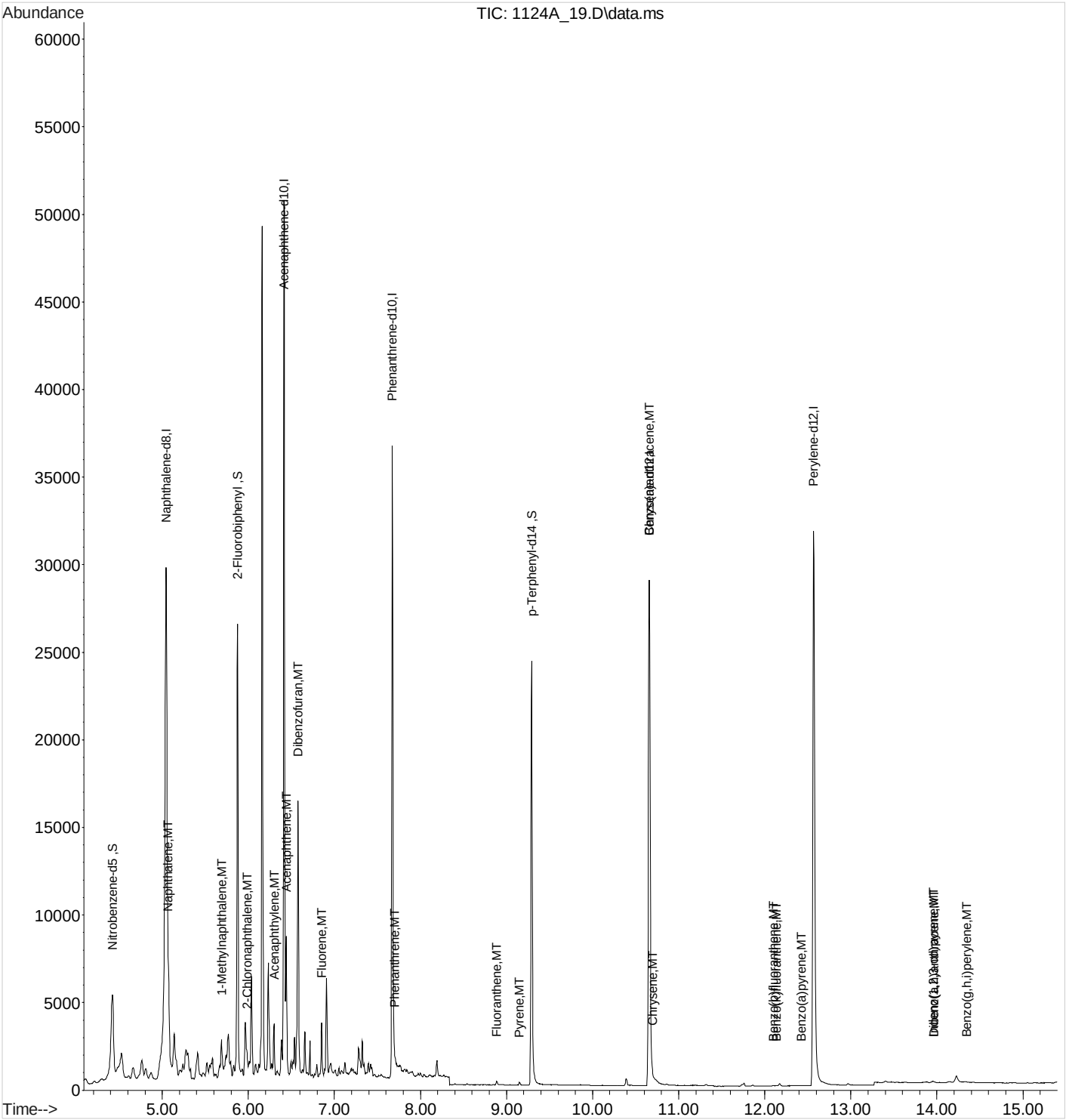
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Naphthalene-d8	5.045	136	39374	40.0000000	ppb	0.00
6) Acenaphthene-d10	6.413	164	22312	40.0000000	ppb	0.00
13) Phenanthrene-d10	7.673	188	33876	40.0000000	ppb	0.00
17) Chrysene-d12	10.659	240	34984	40.0000000	ppb	0.00
22) Perylene-d12	12.568	264	39175	40.0000000	ppb	0.00
System Monitoring Compounds						
2) Nitrobenzene-d5	4.423	82	6960	1.0880686	ppb	-0.01
Spiked Amount 2.000	Range 45 - 170		Recovery = 54.40%			
7) 2-Fluorobiphenyl	5.876	172	16912	1.0754288	ppb	0.00
Spiked Amount 2.000	Range 58 - 153		Recovery = 53.77%#			
19) p-Terphenyl-d14	9.292	244	22071	1.3166285	ppb	0.00
Spiked Amount 2.000	Range 53 - 156		Recovery = 65.83%			
Target Compounds						Qvalue
3) Naphthalene	5.068	128	2635m	0.1193311	ppb	
4) 2-Methylnaphthalene	0.000		0	N.D. d		
5) 1-Methylnaphthalene	5.688	142	1206	0.0920269	ppb	82
8) 2-Chloronaphthalene	5.985	162	246	0.0168138	ppb	89
9) Acenaphthylene	6.300	152	779m	0.0363662	ppb	
10) Acenaphthene	6.440	153	2689	0.1796717	ppb	99
11) Dibenzofuran	6.579	168	9882	0.5190583	ppb	99
12) Fluorene	6.852	166	1347	0.0824856	ppb	99
14) Phenanthrene	7.697	178	341	0.0159450	ppb	81
15) Anthracene	0.000		0	N.D. d		
16) Fluoranthene	8.885	202	158	0.0070479	ppb	95
18) Pyrene	9.150	202	148	0.0070789	ppb	96
20) Benzo(a)anthracene	10.659	228	132	0.0062767	ppb	74
21) Chrysene	10.695	228	22	0.0010304	ppb	88
23) Benzo(b)fluoranthene	12.100	252	37	0.0017522	ppb	99
24) Benzo(k)fluoranthene	12.132	252	16	0.0006933	ppb	96
25) Benzo(a)pyrene	12.428	252	11	0.0005756	ppb	86
26) Indeno(1,2,3-cd)pyrene	13.961	276	51	0.0019030	ppb #	27
27) Dibenz(a,h)anthracene	13.966	278	53	0.0023393	ppb #	46
28) Benzo(g,h,i)perylene	14.346	276	41	0.0018744	ppb #	1

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\112414A\
Data File : 1124A 19.D
Acq On : 25 Nov 2014 6:49 am
Operator : 280
Sample : L735181-05 1x WG756543 100-5
Misc : water 14K21141/14K03077
ALS Vial : 58 Sample Multiplier: 0.05
InstName : BNAMS14

Quant Time: Nov 25 11:12:00 2014
Quant Method : C:\msdchem\1\METHODS\SS14K11N.M
Quant Title : 8270 BNA
QLast Update : Tue Nov 11 17:05:52 2014
Response via : Initial Calibration
DataAcq Meth:SIMMN.M



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\112414A\
Data File : 1124A 20.D
Acq On : 25 Nov 2014 7:09 am
Operator : 280
Sample : L735181-07 1x WG756543 100-5
Misc : water 14K21141/14K03077
ALS Vial : 59 Sample Multiplier: 0.05
InstName : BNAMS14

Quant Time: Nov 25 11:12:20 2014
Quant Method : C:\msdchem\1\METHODS\SS14K11N.M
Quant Title : 8270 BNA
QLast Update : Tue Nov 11 17:05:52 2014
Response via : Initial Calibration
DataAcq Meth:SIMMN.M

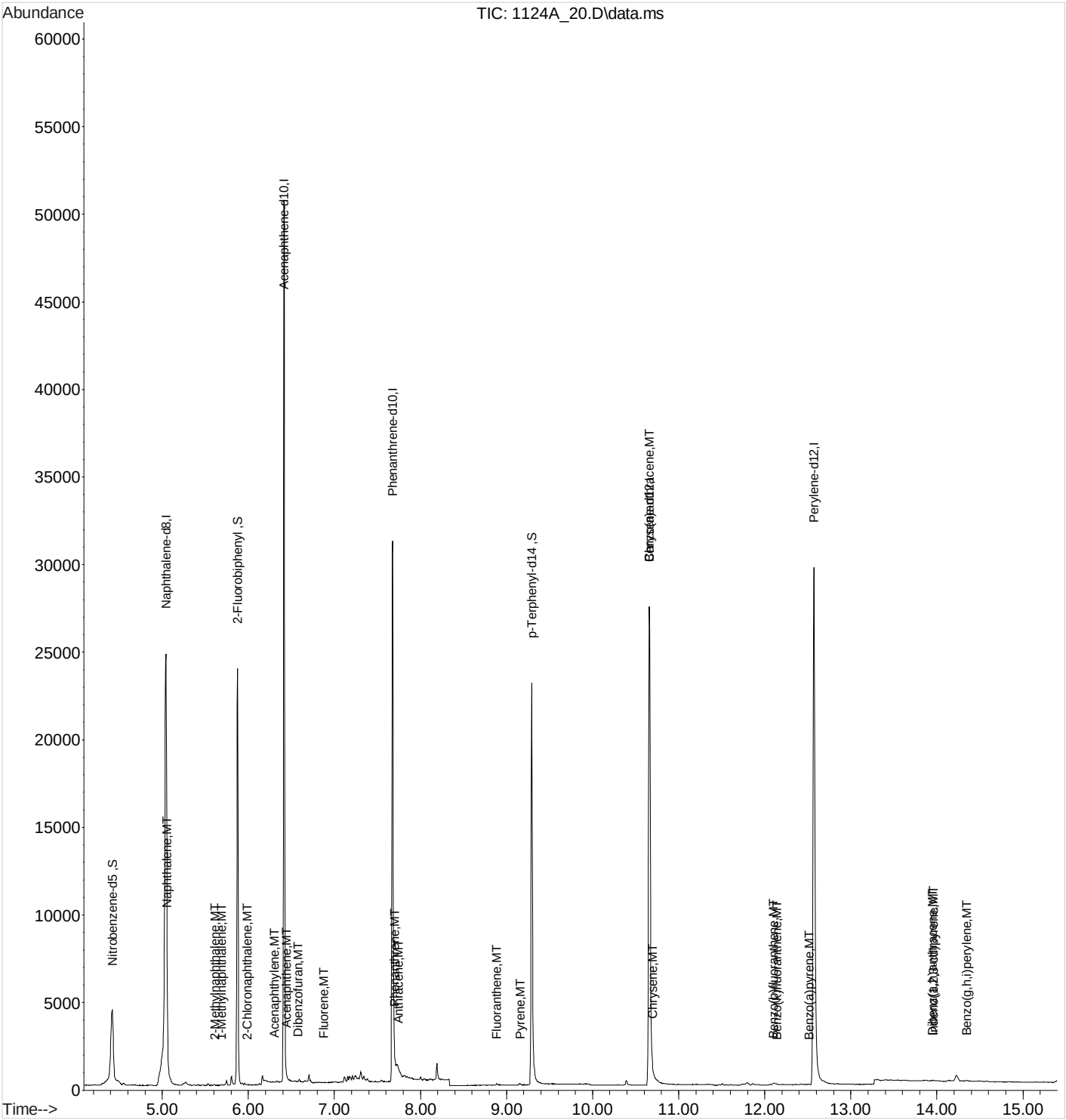
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Naphthalene-d8	5.042	136	40333	40.0000000	ppb		0.00
6) Acenaphthene-d10	6.413	164	22590	40.0000000	ppb		0.00
13) Phenanthrene-d10	7.677	188	32162	40.0000000	ppb		0.00
17) Chrysene-d12	10.659	240	32949	40.0000000	ppb		0.00
22) Perylene-d12	12.573	264	37162	40.0000000	ppb		0.01
System Monitoring Compounds							
2) Nitrobenzene-d5	4.419	82	7009	1.0696757	ppb		-0.01
Spiked Amount 2.000	Range 45 - 170		Recovery = 53.48%				
7) 2-Fluorobiphenyl	5.876	172	16267	1.0216837	ppb		0.00
Spiked Amount 2.000	Range 58 - 153		Recovery = 51.08%#				
19) p-Terphenyl-d14	9.292	244	21659	1.3718508	ppb		0.00
Spiked Amount 2.000	Range 53 - 156		Recovery = 68.59%				
Target Compounds							Qvalue
3) Naphthalene	5.057	128	319	0.0141030	ppb		97
4) 2-Methylnaphthalene	5.610	142	36	0.0025018	ppb		97
5) 1-Methylnaphthalene	5.688	142	34m	0.0025328	ppb		
8) 2-Chloronaphthalene	5.989	162	14	0.0009451	ppb	#	38
9) Acenaphthylene	6.300	152	1	0.0000461	ppb	#	1
10) Acenaphthene	6.440	153	18	0.0011879	ppb	#	16
11) Dibenzofuran	6.575	168	11	0.0005707	ppb		93
12) Fluorene	6.872	166	4	0.0002419	ppb		85
14) Phenanthrene	7.697	178	60	0.0029551	ppb		99
15) Anthracene	7.744	178	10	0.0005136	ppb		77
16) Fluoranthene	8.885	202	71	0.0033359	ppb		93
18) Pyrene	9.157	202	87	0.0044182	ppb		89
20) Benzo(a)anthracene	10.659	228	124	0.0062605	ppb		73
21) Chrysene	10.695	228	31	0.0015415	ppb		79
23) Benzo(b)fluoranthene	12.100	252	42	0.0020968	ppb		63
24) Benzo(k)fluoranthene	12.137	252	22	0.0010050	ppb	#	1
25) Benzo(a)pyrene	12.514	252	6	0.0003310	ppb	#	1
26) Indeno(1,2,3-cd)pyrene	13.961	276	42	0.0016521	ppb	#	60
27) Dibenz(a,h)anthracene	13.950	278	16	0.0007445	ppb	#	31
28) Benzo(g,h,i)perylene	14.346	276	45	0.0021687	ppb		97

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\112414A\
Data File : 1124A 20.D
Acq On : 25 Nov 2014 7:09 am
Operator : 280
Sample : L735181-07 1x WG756543 100-5
Misc : water 14K21141/14K03077
ALS Vial : 59 Sample Multiplier: 0.05
InstName : BNAMS14

Quant Time: Nov 25 11:12:20 2014
Quant Method : C:\msdchem\1\METHODS\SS14K11N.M
Quant Title : 8270 BNA
QLast Update : Tue Nov 11 17:05:52 2014
Response via : Initial Calibration
DataAcq Meth:SIMMN.M



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\112414A\
Data File : 1124A 21.D
Acq On : 25 Nov 2014 7:30 am
Operator : 280
Sample : L735181-08 1x WG756543 100-5
Misc : water 14K21141/14K03077
ALS Vial : 60 Sample Multiplier: 0.05
InstName : BNAMS14

Quant Time: Nov 25 11:14:26 2014
Quant Method : C:\msdchem\1\METHODS\SS14K11N.M
Quant Title : 8270 BNA
QLast Update : Tue Nov 11 17:05:52 2014
Response via : Initial Calibration
DataAcq Meth:SIMMN.M

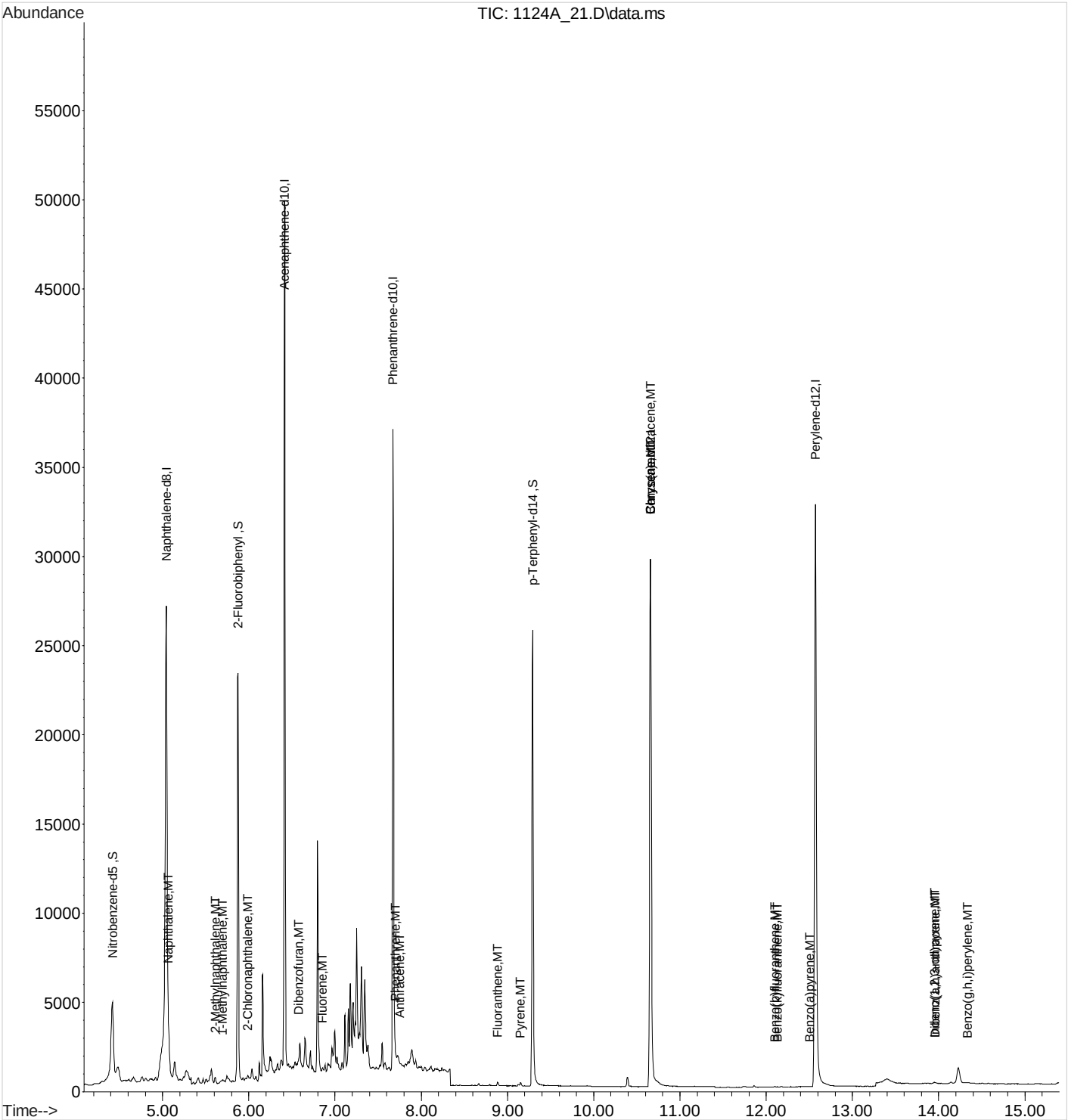
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Naphthalene-d8	5.042	136	39190	40.0000000	ppb	0.00
6) Acenaphthene-d10	6.413	164	21912	40.0000000	ppb	0.00
13) Phenanthrene-d10	7.673	188	32871	40.0000000	ppb	0.00
17) Chrysene-d12	10.659	240	34706	40.0000000	ppb	0.00
22) Perylene-d12	12.573	264	39360	40.0000000	ppb	0.01
System Monitoring Compounds						
2) Nitrobenzene-d5	4.419	82	6776	1.0642771	ppb	-0.01
Spiked Amount 2.000	Range 45 - 170		Recovery = 53.21%			
7) 2-Fluorobiphenyl	5.876	172	16085	1.0415120	ppb	0.00
Spiked Amount 2.000	Range 58 - 153		Recovery = 52.08%#			
19) p-Terphenyl-d14	9.292	244	22936	1.3791891	ppb	0.00
Spiked Amount 2.000	Range 53 - 156		Recovery = 68.96%			
Target Compounds						Qvalue
3) Naphthalene	5.064	128	2429	0.1105184	ppb #	1
4) 2-Methylnaphthalene	5.610	142	145	0.0103707	ppb #	71
5) 1-Methylnaphthalene	5.696	142	137	0.0105032	ppb #	68
8) 2-Chloronaphthalene	5.989	162	75	0.0052197	ppb	79
9) Acenaphthylene	0.000		0	N.D. d		
10) Acenaphthene	0.000		0	N.D. d		
11) Dibenzofuran	6.579	168	278	0.0148687	ppb #	51
12) Fluorene	6.852	166	62	0.0038660	ppb	98
14) Phenanthrene	7.697	178	221	0.0106498	ppb	84
15) Anthracene	7.748	178	28	0.0014072	ppb	60
16) Fluoranthene	8.885	202	166	0.0076312	ppb	97
18) Pyrene	9.150	202	159	0.0076659	ppb	99
20) Benzo(a)anthracene	10.659	228	131	0.0062791	ppb	83
21) Chrysene	10.659	228	131	0.0061845	ppb	70
23) Benzo(b)fluoranthene	12.100	252	43	0.0020268	ppb	99
24) Benzo(k)fluoranthene	12.127	252	14	0.0006038	ppb	67
25) Benzo(a)pyrene	12.503	252	18	0.0009375	ppb	73
26) Indeno(1,2,3-cd)pyrene	13.956	276	48	0.0017826	ppb #	1
27) Dibenz(a,h)anthracene	13.961	278	40	0.0017572	ppb #	15
28) Benzo(g,h,i)perylene	14.335	276	22	0.0010010	ppb	77

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\112414A\
Data File : 1124A 21.D
Acq On : 25 Nov 2014 7:30 am
Operator : 280
Sample : L735181-08 1x WG756543 100-5
Misc : water 14K21141/14K03077
ALS Vial : 60 Sample Multiplier: 0.05
InstName : BNAMS14

Quant Time: Nov 25 11:14:26 2014
Quant Method : C:\msdchem\1\METHODS\SS14K11N.M
Quant Title : 8270 BNA
QLast Update : Tue Nov 11 17:05:52 2014
Response via : Initial Calibration
DataAcq Meth:SIMMN.M



Calibration

Instrument: BNAMS14
Method: SS14K11N

Initial Calibration Run Log

File ID	Level ID	Date Analyzed
1111A_06.D	1	11/11/2014 2:18:00 PM
1111A_07.D	5	11/11/2014 2:39:00 PM
1111A_08.D	10	11/11/2014 3:00:00 PM
1111A_09.D	20	11/11/2014 3:21:00 PM
1111A_05.D	40	11/11/2014 1:58:00 PM
1111A_10.D	80	11/11/2014 3:41:00 PM
1111A_11.D	200	11/11/2014 4:02:00 PM
1111A_12.D	1000	11/11/2014 4:23:00 PM
1111A_13.D	2000	11/11/2014 4:43:00 PM

Environmental Science Corporation
12065 Lebanon Rd., Mt. Juliet, TN 37122

Injection Log

Instrument ID : BNAMS14
Computer Name : SVCOMPAL

Released By : Fallon Labeots
Date Released : 11/11/2014 5:26:26 PM

Run ID : 111114A
Signature : _____

#	File ID	Sample ID	Method	WG	Product	Matrix	Account #	State	Dil.	Mult.	Injected	Misc.
1	1111A_01	TUNE DFTPP 2 PPM 14J03433								1	11/11/14 1235	
2	1111A_04	TUNE DFTPP 2 PPM 14J03433								1	11/11/14 1337	
3	1111A_05	MSTD SIMLVI 40 PPB 14I18662	SS14K11N						1	1	11/11/14 1358	"SIM/PAH STD"
4	1111A_06	STD SIMLVI 1 PPB 14I18662	SS14K11N						1	1	11/11/14 1418	"SIM/PAH STD"
5	1111A_07	STD SIMLVI 5 PPB 14I18662	SS14K11N						1	1	11/11/14 1439	"SIM/PAH STD"
6	1111A_08	STD SIMLVI 10 PPB 14I18662	SS14K11N						1	1	11/11/14 1500	"SIM/PAH STD"
7	1111A_09	STD SIMLVI 20 PPB 14I18662	SS14K11N						1	1	11/11/14 1521	"SIM/PAH STD"
8	1111A_10	STD SIMLVI 80 PPB 14I18662	SS14K11N						1	1	11/11/14 1541	"SIM/PAH STD"
9	1111A_11	STD SIMLVI 200 PPB 14I18662	SS14K11N						1	1	11/11/14 1602	"SIM/PAH STD"
10	1111A_12	STD SIMLVI 1000 PPB 14I18662	SS14K11N						1	1	11/11/14 1623	"SIM/PAH STD"
11	1111A_13	STD SIMLVI 2000 PPB 14I18662	SS14K11N						1	1	11/11/14 1643	"SIM/PAH STD"
12	1111A_14	SSCV SIMLVI 40 PPB 14I18662	SS14K11N						1	1	11/11/14 1704	"SIM/PAH STD"

Mint Miner 2.6.4 Directory Scan: z:\111114A

12 Nov 2014 10:47

Level	Status	Code	Operator	Instrument	Sample ID
Scan File Path: z:\111114A\1111A_01.D					
Original Path: 1111A_01.D					
6	Scanned	ENR(1), TA(1)	280	BNAMS14	TUNE DFTPP 2 PPM 14J03433 (DFTPP TUNE
Scan File Path: z:\111114A\1111A_02.D					
Original Path: C:\msdchem\1\DATA\111114A\1111A_02.D\data.ms					
0	Scanned		280	BNAMS14	MSTD SIMLVI 40 PPB 14I18662 (SIM/PAH ST
Scan File Path: z:\111114A\1111A_03.D					
Original Path: C:\msdchem\1\DATA\111114A\1111A_03.D\data.ms					
0	Scanned		280	BNAMS14	STD SIMLVI 1 PPB 14I18662 (SIM/PAH STD)
Scan File Path: z:\111114A\1111A_04.D					
Original Path: 1111A_04.D					
9	Scanned	MZ(4), TA(1)	280	BNAMS14	TUNE DFTPP 2 PPM 14J03433 (DFTPP TUNE
Scan File Path: z:\111114A\1111A_05.D					
Original Path: C:\msdchem\1\DATA\111114A\1111A_05.D\data.ms					
0	Scanned		280	BNAMS14	MSTD SIMLVI 40 PPB 14I18662 (SIM/PAH ST
Scan File Path: z:\111114A\1111A_06.D					
Original Path: C:\msdchem\1\DATA\111114A\1111A_06.D\data.ms					
0	Scanned		280	BNAMS14	STD SIMLVI 1 PPB 14I18662 (SIM/PAH STD)
Scan File Path: z:\111114A\1111A_07.D					
Original Path: C:\msdchem\1\DATA\111114A\1111A_07.D\data.ms					
0	Scanned		280	BNAMS14	STD SIMLVI 5 PPB 14I18662 (SIM/PAH STD)
Scan File Path: z:\111114A\1111A_08.D					
Original Path: C:\msdchem\1\DATA\111114A\1111A_08.D\data.ms					
0	Scanned		280	BNAMS14	STD SIMLVI 10 PPB 14I18662 (SIM/PAH STD)
Scan File Path: z:\111114A\1111A_09.D					
Original Path: C:\msdchem\1\DATA\111114A\1111A_09.D\data.ms					
0	Scanned		280	BNAMS14	STD SIMLVI 20 PPB 14I18662 (SIM/PAH STD)
Scan File Path: z:\111114A\1111A_10.D					
Original Path: C:\msdchem\1\DATA\111114A\1111A_10.D\data.ms					
0	Scanned		280	BNAMS14	STD SIMLVI 80 PPB 14I18662 (SIM/PAH STD)
Scan File Path: z:\111114A\1111A_11.D					
Original Path: C:\msdchem\1\DATA\111114A\1111A_11.D\data.ms					
0	Scanned		280	BNAMS14	STD SIMLVI 200 PPB 14I18662 (SIM/PAH STD

Level	Status	Code	Operator	Instrument	Sample ID
Scan File Path: z:\111114A\1111A_12.D					
Original Path: C:\msdchem\1\DATA\111114A\1111A_12.D\data.ms					
0	Scanned		280	BNAMS14	STD SIMLVI 1000 PPB 14I18662 (SIM/PAH ST
Scan File Path: z:\111114A\1111A_13.D					
Original Path: C:\msdchem\1\DATA\111114A\1111A_13.D\data.ms					
0	Scanned		280	BNAMS14	STD SIMLVI 2000 PPB 14I18662 (SIM/PAH ST
Scan File Path: z:\111114A\1111A_14.D					
Original Path: C:\msdchem\1\DATA\111114A\1111A_14.D\data.ms					
0	Scanned		280	BNAMS14	SSCV SIMLVI 40 PPB 14I18662 (SIM/PAH STI
Scan File Path: z:\111114A\1111A_15.D					
Original Path: C:\msdchem\1\DATA\111114A\1111A_15.D\data.ms					
4	Scanned	MS(1), M(1)	280	BNAMS14	nuBLANK 1x WG752860 100-5 (water 14J1391
Scan File Path: z:\111114A\1111A_16.D					
Original Path: C:\msdchem\1\DATA\111114A\1111A_16.D\data.ms					
0	Scanned		280	BNAMS14	L732014-03 1x WG752860 100-5 (water 14J139
Scan File Path: z:\111114A\1111A_17.D					
Original Path: C:\msdchem\1\DATA\111114A\1111A_17.D\data.ms					
0	Scanned		280	BNAMS14	L728070-05 1x WG749769 40-2 (water 14J1391
Scan File Path: z:\111114A\1111A_18.D					
Original Path: C:\msdchem\1\DATA\111114A\1111A_18.D\data.ms					
29	Scanned	M(5), MI(1), MR(3), MS(1), MCT(1)	280	BNAMS14	L728070-10 1x WG749769 40-2 (water 14J1391
Scan File Path: z:\111114A\1111A_19.D					
Original Path: C:\msdchem\1\DATA\111114A\1111A_19.D\data.ms					
11	Scanned	M(2), MI(1), MS(1), MCT(1)	280	BNAMS14	L731771-08 20x WG753094 40-2 (water 14J139
Scan File Path: z:\111114A\1111A_20.D					
Original Path: C:\msdchem\1\DATA\111114A\1111A_20.D\data.ms					
11	Scanned	M(2), MI(1), MS(1), MCT(1)	280	BNAMS14	L731771-15 20x WG753094 40-2 (water 14J139
Scan File Path: z:\111114A\1111A_21.D					
Original Path: C:\msdchem\1\DATA\111114A\1111A_21.D\data.ms					
11	Scanned	M(2), MI(1), MS(1), MCT(1)	280	BNAMS14	L731771-16 100x WG753094 40-4 (water 14J13
Scan File Path: z:\111114A\1111A_22.D					
Original Path: C:\msdchem\1\DATA\111114A\1111A_22.D\data.ms					
0	Scanned		280	BNAMS14	L731868-06 20x WG753584 40-2 (water 14J139

Level	Status	Code	Operator	Instrument	Sample ID
Scan File Path: z:\111114A\1111A_23.D					
Original Path: C:\msdchem\1\DATA\111114A\1111A_23.D\data.ms					
0	Scanned		280	BNAMS14	L731945-17 20x WG753584 40-2 (water 14J139
Scan File Path: z:\111114A\1111A_24.D					
Original Path: C:\msdchem\1\DATA\111114A\1111A_24.D\data.ms					
0	Scanned		280	BNAMS14	L731945-22 20x WG753584 40-2 (water 14J139
Scan File Path: z:\111114A\1111A_25.D					
Original Path: C:\msdchem\1\DATA\111114A\1111A_25.D\data.ms					
36	Scanned	D(25), DC(3), DI(4), DS(2), DK(2)	280	BNAMS14	INSTBLK
Scan File Path: z:\111114A\1111A_26.D					
Original Path: 1111A_26.D					
9	Scanned	MZ(4), TA(1)	280	BNAMS14	TUNE DFTPP 2 PPM 14J03433 (DFTPP TUNE
Scan File Path: z:\111114A\1111A_27.D					
Original Path: C:\msdchem\1\DATA\111114A\1111A_27.D\data.ms					
0	Scanned		280	BNAMS14	ICV SIMLVI 40 PPB 14I18662 (SIM/PAH STD)
Scan File Path: z:\111114A\1111A_28.D					
Original Path: C:\msdchem\1\DATA\111114A\1111A_28.D\data.ms					
0	Scanned		280	BNAMS14	BLANK 1x WG753749 40-2 (water 14J13916/14
Scan File Path: z:\111114A\1111A_29.D					
Original Path: C:\msdchem\1\DATA\111114A\1111A_29.D\data.ms					
4	Scanned	MS(1), M(1)	280	BNAMS14	LCS 1x WG753749 40-2 (water 14J13916/14K03
Scan File Path: z:\111114A\1111A_30.D					
Original Path: C:\msdchem\1\DATA\111114A\1111A_30.D\data.ms					
0	Scanned		280	BNAMS14	LCSD 1x WG753749 40-2 (water 14J13916/14K
Scan File Path: z:\111114A\1111A_31.D					
Original Path: C:\msdchem\1\DATA\111114A\1111A_31.D\data.ms					
0	Scanned		280	BNAMS14	L732201-03 1x WG753749 40-2 (water 14J1391
Scan File Path: z:\111114A\1111A_32.D					
Original Path: C:\msdchem\1\DATA\111114A\1111A_32.D\data.ms					
1	Scanned	M(1)	280	BNAMS14	L732201-05 1x WG753749 40-2 (water 14J1391
Scan File Path: z:\111114A\1111A_33.D					
Original Path: C:\msdchem\1\DATA\111114A\1111A_33.D\data.ms					
0	Scanned		280	BNAMS14	L732201-06 1x WG753749 40-2 (water 14J1391

Level	Status	Code	Operator	Instrument	Sample ID
Scan File Path: z:\111114A\1111A_34.D					
Original Path: C:\msdchem\1\DATA\111114A\1111A_34.D\data.ms					
0	Scanned		280	BNAMS14	L732201-07 1x WG753749 40-2 (water 14J1391
Scan File Path: z:\111114A\1111A_35.D					
Original Path: C:\msdchem\1\DATA\111114A\1111A_35.D\data.ms					
0	Scanned		280	BNAMS14	L732201-08 1.053x WG753749 38-2 (water 14J1
Scan File Path: z:\111114A\1111A_36.D					
Original Path: C:\msdchem\1\DATA\111114A\1111A_36.D\data.ms					
1	Scanned	D(1)	280	BNAMS14	L732201-09 1x WG753749 40-2 (water 14J1391
Scan File Path: z:\111114A\1111A_37.D					
Original Path: C:\msdchem\1\DATA\111114A\1111A_37.D\data.ms					
0	Scanned		280	BNAMS14	L732201-10 1x WG753749 40-2 (water 14J1391
Scan File Path: z:\111114A\1111A_38.D					
Original Path: C:\msdchem\1\DATA\111114A\1111A_38.D\data.ms					
0	Scanned		280	BNAMS14	L732201-11 1x WG753749 40-2 (water 14J1391
Scan File Path: z:\111114A\1111A_39.D					
Original Path: C:\msdchem\1\DATA\111114A\1111A_39.D\data.ms					
0	Scanned		280	BNAMS14	L732201-12 1x WG753749 40-2 (water 14J1391
Scan File Path: z:\111114A\1111A_40.D					
Original Path: C:\msdchem\1\DATA\111114A\1111A_40.D\data.ms					
0	Scanned		280	BNAMS14	L732201-13 1x WG753749 40-2 (water 14J1391
Scan File Path: z:\111114A\1111A_41.D					
Original Path: C:\msdchem\1\DATA\111114A\1111A_41.D\data.ms					
0	Scanned		280	BNAMS14	L732201-14 1x WG753749 40-2 (water 14J1391
Scan File Path: z:\111114A\1111A_42.D					
Original Path: C:\msdchem\1\DATA\111114A\1111A_42.D\data.ms					
8	Scanned	MR(1), M(3)	280	BNAMS14	L732246-03 1x WG753749 40-2 (water 14J1391
Scan File Path: z:\111114A\1111A_43.D					
Original Path: C:\msdchem\1\DATA\111114A\1111A_43.D\data.ms					
4	Scanned	M(4)	280	BNAMS14	L732246-04 1x WG753749 40-2 (water 14J1391
Scan File Path: z:\111114A\1111A_44.D					
Original Path: C:\msdchem\1\DATA\111114A\1111A_44.D\data.ms					
0	Scanned		280	BNAMS14	L732246-05 1x WG753749 40-2 (water 14J1391

Level	Status	Code	Operator	Instrument	Sample ID
Scan File Path: z:\111114A\1111A_45.D					
Original Path: C:\msdchem\1\DATA\111114A\1111A_45.D\data.ms					
0	Scanned		280	BNAMS14	L732246-06 1x WG753749 40-2 (water 14J1391
Scan File Path: z:\111114A\1111A_46.D					
Original Path: C:\msdchem\1\DATA\111114A\1111A_46.D\data.ms					
2	Scanned	M(2)	280	BNAMS14	L732359-01 1x WG753749 40-2 (water 14J1391
Scan File Path: z:\111114A\1111A_47.D					
Original Path: C:\msdchem\1\DATA\111114A\1111A_47.D\data.ms					
0	Scanned		280	BNAMS14	L732359-02 1x WG753749 40-2 (water 14J1391
Scan File Path: z:\111114A\1111A_48.D					
Original Path: C:\msdchem\1\DATA\111114A\1111A_48.D\data.ms					
4	Scanned	MS(1), M(1)	280	BNAMS14	L732359-03 1x WG753749 40-2 (water 14J1391
Scan File Path: z:\111114A\1111A_49.D					
Original Path: C:\msdchem\1\DATA\111114A\1111A_49.D\data.ms					
1	Scanned	D(1)	280	BNAMS14	L732359-04 1.026x WG753749 39-2 (water 14J1
Scan File Path: z:\111114A\1111A_50.D					
Original Path: C:\msdchem\1\DATA\111114A\1111A_50.D\data.ms					
12	Scanned	MS(1), M(5), D(3), MQ(1)	280	BNAMS14	L732359-05 1x WG753749 40-2 (water 14J1391
Scan File Path: z:\111114A\1111A_51.D					
Original Path: C:\msdchem\1\DATA\111114A\1111A_51.D\data.ms					
2	Scanned	M(1), MI(1)	280	BNAMS14	L731267-13 20x WG753091 40-2 (water 14J139
Scan File Path: z:\111114A\1111A_52.D					
Original Path: C:\msdchem\1\DATA\111114A\1111A_52.D\data.ms					
0	Scanned		280	BNAMS14	L731267-14 20x WG753091 40-2 (water 14J139
Scan File Path: z:\111114A\1111A_53.D					
Original Path: C:\msdchem\1\DATA\111114A\1111A_53.D\data.ms					
2	Scanned	M(1), MI(1)	280	BNAMS14	L731267-15 20x WG753091 40-2 (water 14J139
Scan File Path: z:\111114A\1111A_54.D					
Original Path: C:\msdchem\1\DATA\111114A\1111A_54.D\data.ms					
2	Scanned	M(1), MI(1)	280	BNAMS14	L731323-06 20x WG753091 40-2 (water 14J139
Scan File Path: z:\111114A\1111A_55.D					
Original Path: C:\msdchem\1\DATA\111114A\1111A_55.D\data.ms					
4	Scanned	MS(1), M(1)	280	BNAMS14	L731323-07 20x WG753091 40-2 (water 14J139

Level	Status	Code	Operator	Instrument	Sample ID
Scan File Path: z:\111114A\1111A_56.D					
Original Path: C:\msdchem\1\DATA\111114A\1111A_56.D\data.ms					
0	Scanned		280	BNAMS14	L731323-08 20x WG753091 40-2 (water 14J139
Scan File Path: z:\111114A\1111A_57.D					
Original Path: C:\msdchem\1\DATA\111114A\1111A_57.D\data.ms					
0	Scanned		280	BNAMS14	L731267-17 40x WG753091 40-4 (water 14J139

D	=	Deletion of any analyte	DC	=	Deletion of a CCC
DI	=	Deletion of an internal standard	DK	=	Deletion of a spike compound
DS	=	Deletion of a surrogate	ENR	=	Quant report set to not reviewed (Disables MZ code)
M	=	Manual integration (non-specific)	MCT	=	Combo Tweaking: Manual integration of an IStd AND a CCC, SPCC, Surrogate or Spike in a single data file
MI	=	Manual integration of an internal standard	MQ	=	Manual integration and deletion of the same analyte
MR	=	Manual integration with before/after ratio <10%	MS	=	Manual integration of a surrogate
MZ	=	Manual integrated but indicator missing from either the quant report or audit file	TA	=	Tune spectrum obtained by spectral averaging

ScanSummary.rpt

Total Files Scanned	57	Beginning Analyzed Date	11/11/2014 12:35:00PM
Methods	0	Ending Analyzed Date	11/12/2014 7:53:00AM
Samples	54	Analyzed Range	19 hours, 18 minutes
Tunes	3	Greatest Time Between Tunes	7 hours, 35 minutes
CCCs	0	Greatest Time Between CCCs	N/A

Distinct Method Last Updated count 0
Operators 1 Intruments 1

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\DATA\111114A\
Data File : 1111A 01.D
Acq On : 11 Nov 2014 12:35 pm
Operator : 280
Sample : dnr TUNE DFTPP 2 PPM 14J03433
Misc : DFTPP TUNE 14J03433
ALS Vial : 2 Sample Multiplier: 1
InstName : BNAMS14

Quant Time: Nov 11 13:15:51 2014
Quant Method : C:\msdchem\1\METHODS\TUNE525.M
Quant Title :
QLast Update : Thu Jun 05 10:52:45 2014
Response via : Initial Calibration
DataAcq Meth:PAHMN.M

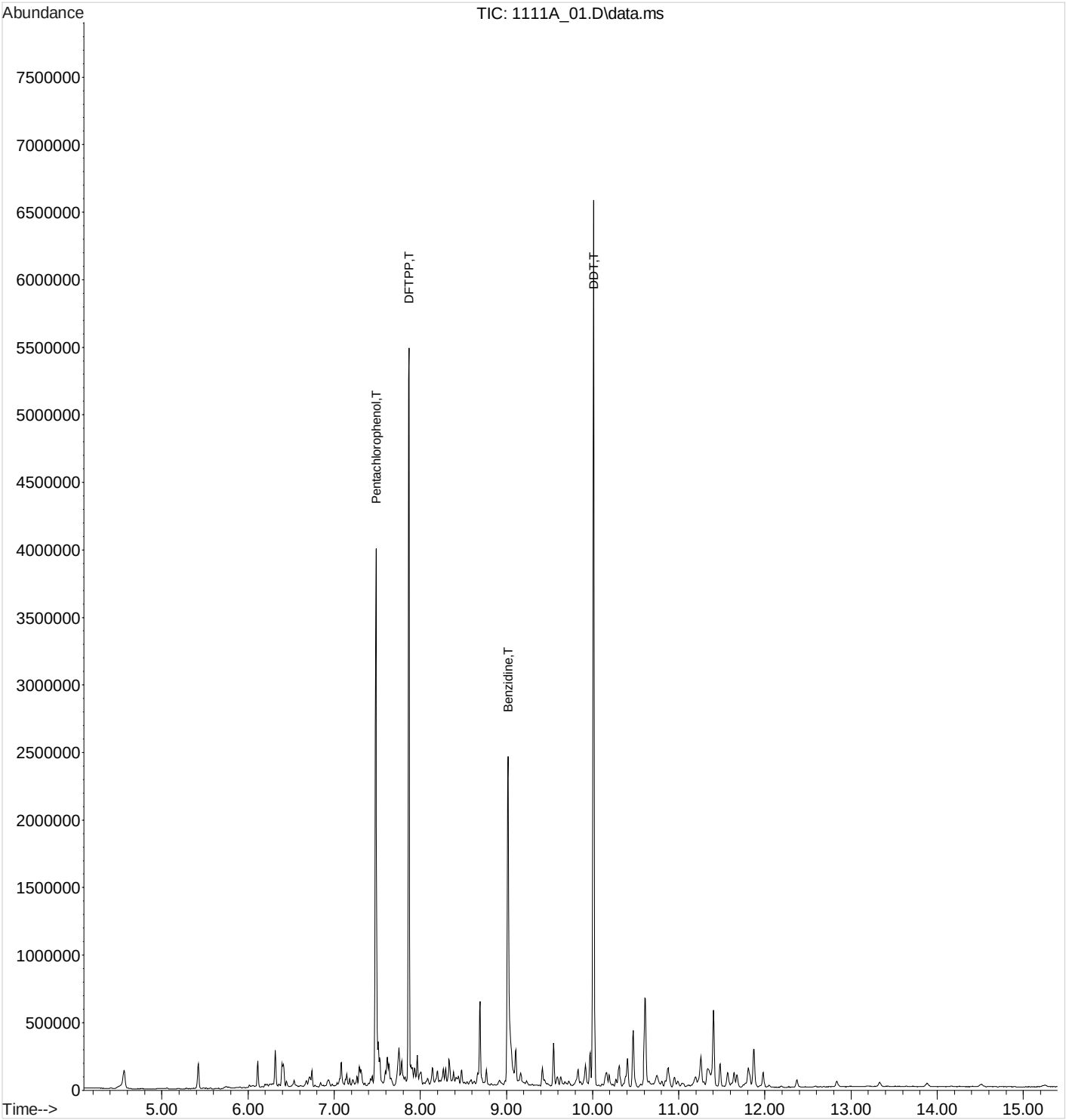
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Target Compounds						Qvalue
1) Pentachlorophenol	7.488	264	2034791	0.5418806	ppm	100
2) DFTPP	7.869	198	4336424	0.5081991	ppm	100
3) Benzidine	9.019	184	13735217	0.5537988	ppm	100
4) DDT	10.016	TIC	60750569	2.8371380	ppm	100
5) DDT	10.016	235	10404282	No Calib		

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\DATA\111114A\
Data File : 1111A 01.D
Acq On : 11 Nov 2014 12:35 pm
Operator : 280
Sample : dnr TUNE DFTPP 2 PPM 14J03433
Misc : DFTPP TUNE 14J03433
ALS Vial : 2 Sample Multiplier: 1
InstName : BNAMS14

Quant Time: Nov 11 13:15:51 2014
Quant Method : C:\msdchem\1\METHODS\TUNE525.M
Quant Title :
QLast Update : Thu Jun 05 10:52:45 2014
Response via : Initial Calibration
DataAcq Meth:PAHMN.M



Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\DATA\111114A\
Data File : 1111A 02.D
Acq On : 11 Nov 2014 12:55 pm
Operator : 280
Sample : dnr MSTD SIMLVI 40 PPB 14I18662
Misc : SIM/PAH STD
ALS Vial : 41 Sample Multiplier: 1
InstName : BNAMS14

Quant Time: Nov 11 17:26:08 2014
Quant Method : C:\msdchem\1\METHODS\SS14K11N.M
Quant Title : 8270 BNA
QLast Update : Tue Nov 11 17:05:52 2014
Response via : Initial Calibration
DataAcq Meth:SIMMN.M

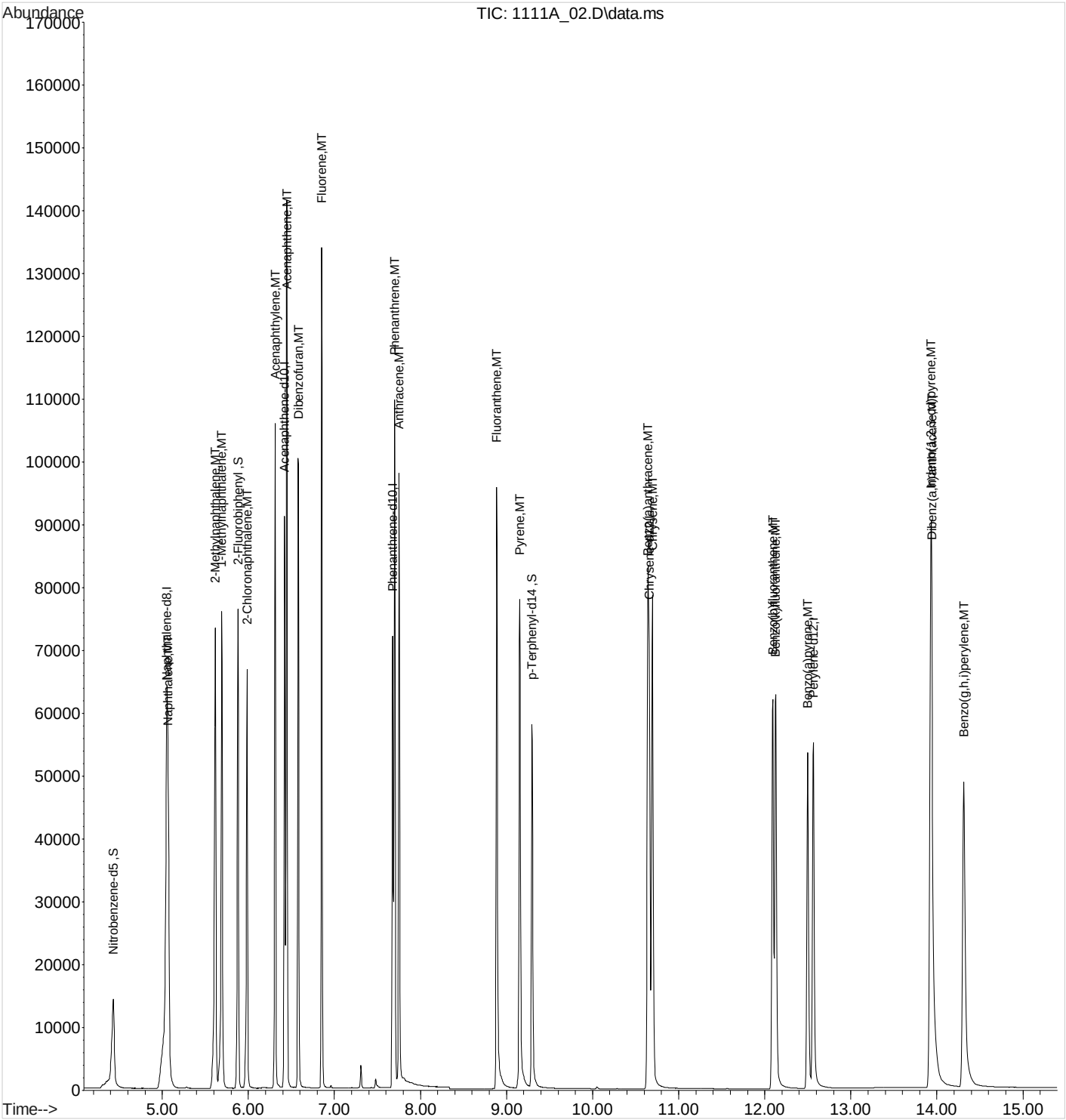
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Naphthalene-d8	5.049	136	70950	40.0000000	ppb	0.00
6) Acenaphthene-d10	6.421	164	38374	40.0000000	ppb	0.00
13) Phenanthrene-d10	7.677	188	59660	40.0000000	ppb	0.00
17) Chrysene-d12	10.659	240	59457	40.0000000	ppb	0.00
22) Perylene-d12	12.568	264	63420	40.0000000	ppb	0.00
System Monitoring Compounds						
2) Nitrobenzene-d5	4.430	82	23571	40.8989531	ppb	0.00
Spiked Amount 2.000	Range 45 - 170		Recovery = 2044.95%#			
7) 2-Fluorobiphenyl	5.880	172	53270	39.3913473	ppb	0.00
Spiked Amount 2.000	Range 58 - 153		Recovery = 1969.57%#			
19) p-Terphenyl-d14	9.295	244	54966	38.5861855	ppb	0.00
Spiked Amount 2.000	Range 53 - 156		Recovery = 1929.31%#			
Target Compounds						Qvalue
3) Naphthalene	5.068	128	77109	38.7583339	ppb	100
4) 2-Methylnaphthalene	5.618	142	50457	39.8669828	ppb	99
5) 1-Methylnaphthalene	5.692	142	47152	39.9350915	ppb	98
8) 2-Chloronaphthalene	5.985	162	49262	39.1539046	ppb	99
9) Acenaphthylene	6.312	152	71427	38.7752029	ppb	100
10) Acenaphthene	6.447	153	49914	38.7831182	ppb	98
11) Dibenzofuran	6.583	168	64292	39.2698895	ppb	86
12) Fluorene	6.852	166	53574	38.1501111	ppb	97
14) Phenanthrene	7.701	178	73051	38.7912925	ppb	99
15) Anthracene	7.752	178	69995	38.7635513	ppb	99
16) Fluoranthene	8.885	202	75164	38.0762046	ppb	99
18) Pyrene	9.154	202	68686	38.6605061	ppb	99
20) Benzo(a)anthracene	10.640	228	68618	38.3967738	ppb	98
21) Chrysene	10.695	228	71748	39.5434023	ppb	99
23) Benzo(b)fluoranthene	12.094	252	70726	41.3789775	ppb	99
24) Benzo(k)fluoranthene	12.121	252	70543	37.7653537	ppb	98
25) Benzo(a)pyrene	12.498	252	61141	39.5275232	ppb	98
26) Indeno(1,2,3-cd)pyrene	13.928	276	84179	38.8048525	ppb	100
27) Dibenz(a,h)anthracene	13.939	278	70476	38.4295773	ppb	98
28) Benzo(g,h,i)perylene	14.314	276	71380	40.3151607	ppb	98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\DATA\111114A\
Data File : 1111A 02.D
Acq On : 11 Nov 2014 12:55 pm
Operator : 280
Sample : dnr MSTD SIMLVI 40 PPB 14I18662
Misc : SIM/PAH STD
ALS Vial : 41 Sample Multiplier: 1
InstName : BNAMS14

Quant Time: Nov 11 17:26:08 2014
Quant Method : C:\msdchem\1\METHODS\SS14K11N.M
Quant Title : 8270 BNA
QLast Update : Tue Nov 11 17:05:52 2014
Response via : Initial Calibration
DataAcq Meth:SIMMN.M



Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\DATA\111114A\
Data File : 1111A 03.D
Acq On : 11 Nov 2014 1:16 pm
Operator : 280
Sample : dnr STD SIMLVI 1 PPB 14I18662
Misc : SIM/PAH STD
ALS Vial : 42 Sample Multiplier: 1
InstName : BNAMS14

Quant Time: Nov 11 17:26:11 2014
Quant Method : C:\msdchem\1\METHODS\SS14K11N.M
Quant Title : 8270 BNA
QLast Update : Tue Nov 11 17:05:52 2014
Response via : Initial Calibration
DataAcq Meth:SIMMN.M

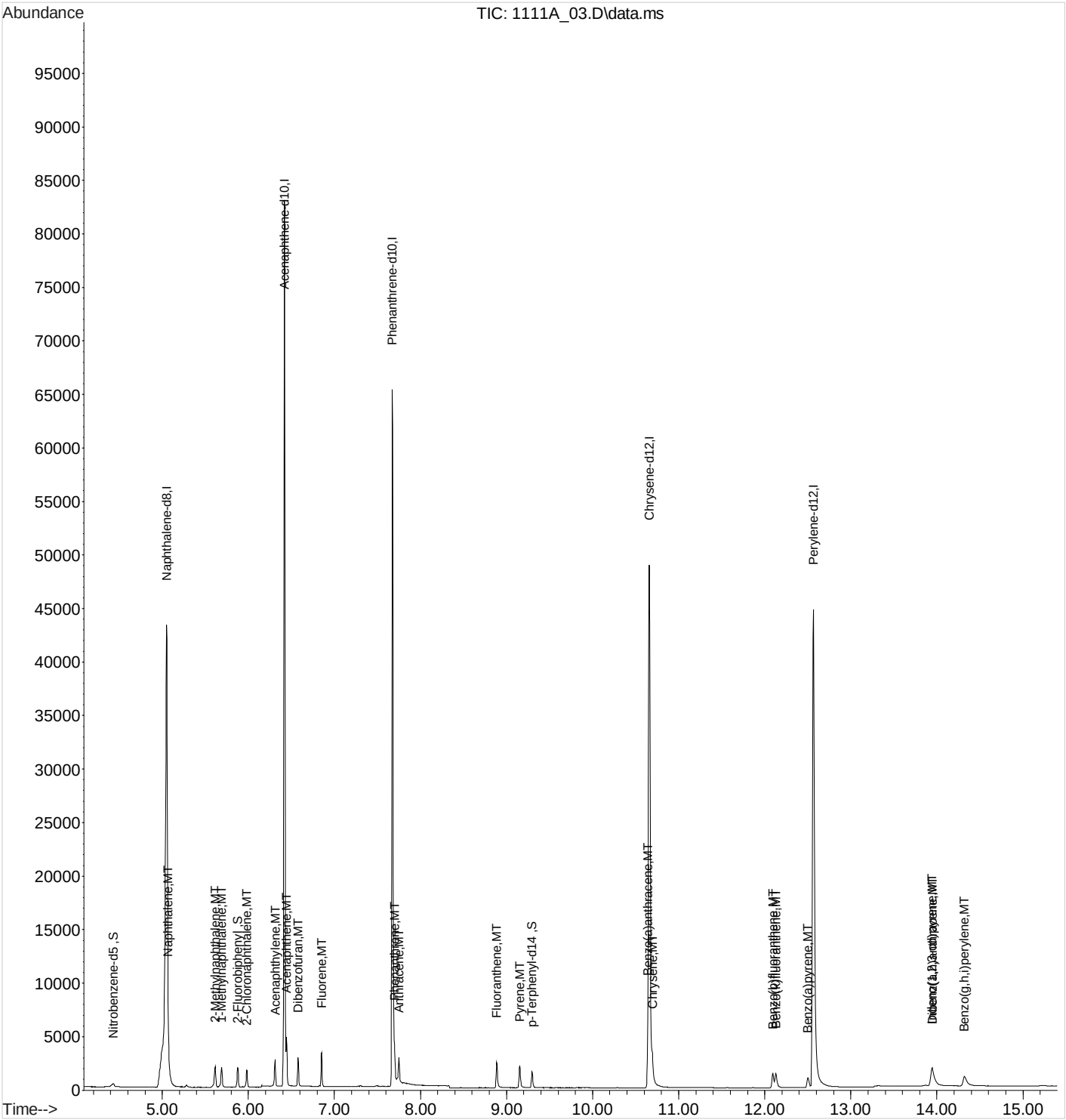
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Naphthalene-d8	5.049	136	70523	40.0000000	ppb	0.00
6) Acenaphthene-d10	6.421	164	38321	40.0000000	ppb	0.00
13) Phenanthrene-d10	7.673	188	58504	40.0000000	ppb	0.00
17) Chrysene-d12	10.659	240	57174	40.0000000	ppb	0.00
22) Perylene-d12	12.568	264	60812	40.0000000	ppb	0.00
System Monitoring Compounds						
2) Nitrobenzene-d5	4.430	82	444	0.7750662	ppb	0.00
Spiked Amount 2.000	Range 45 - 170		Recovery = 38.75%#			
7) 2-Fluorobiphenyl	5.876	172	1404	1.0396460	ppb	0.00
Spiked Amount 2.000	Range 58 - 153		Recovery = 51.98%#			
19) p-Terphenyl-d14	9.295	244	1464	1.0687674	ppb	0.00
Spiked Amount 2.000	Range 53 - 156		Recovery = 53.44%			
Target Compounds						Qvalue
3) Naphthalene	5.068	128	2485	1.2566318	ppb	100
4) 2-Methylnaphthalene	5.614	142	1288	1.0238337	ppb	99
5) 1-Methylnaphthalene	5.692	142	1243	1.0591252	ppb	99
8) 2-Chloronaphthalene	5.981	162	1307	1.0402527	ppb	96
9) Acenaphthylene	6.311	152	1768	0.9611124	ppb	99
10) Acenaphthene	6.443	153	1343	1.0449526	ppb	100
11) Dibenzofuran	6.579	168	1742	1.0654943	ppb	100
12) Fluorene	6.852	166	1432	1.0211393	ppb	99
14) Phenanthrene	7.697	178	2001	1.0835597	ppb	99
15) Anthracene	7.748	178	1596	0.9013368	ppb	100
16) Fluoranthene	8.885	202	1992	1.0290365	ppb	99
18) Pyrene	9.154	202	1854	1.0852092	ppb	98
20) Benzo(a)anthracene	10.640	228	1856	1.0800381	ppb	98
21) Chrysene	10.695	228	1995	1.1434352	ppb	99
23) Benzo(b)fluoranthene	12.094	252	1618	0.9872250	ppb	99
24) Benzo(k)fluoranthene	12.127	252	1891	1.0557671	ppb	99
25) Benzo(a)pyrene	12.498	252	1369	0.9230122	ppb	99
26) Indeno(1,2,3-cd)pyrene	13.939	276	2124	1.0211128	ppb	99
27) Dibenz(a,h)anthracene	13.950	278	1777	1.0105289	ppb	97
28) Benzo(g,h,i)perylene	14.319	276	1810	1.0661232	ppb	100

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\DATA\111114A\
Data File : 1111A 03.D
Acq On : 11 Nov 2014 1:16 pm
Operator : 280
Sample : dnr STD SIMLVI 1 PPB 14I18662
Misc : SIM/PAH STD
ALS Vial : 42 Sample Multiplier: 1
InstName : BNAMS14

Quant Time: Nov 11 17:26:11 2014
Quant Method : C:\msdchem\1\METHODS\SS14K11N.M
Quant Title : 8270 BNA
QLast Update : Tue Nov 11 17:05:52 2014
Response via : Initial Calibration
DataAcq Meth:SIMMN.M



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\111114A\
Data File : 1111A 04.D
Acq On : 11 Nov 2014 1:37 pm
Operator : 280
Sample : TUNE DFTPP 2 PPM 14J03433
Misc : DFTPP TUNE 14J03433
ALS Vial : 2 Sample Multiplier: 1
InstName : BNAMS14

Quant Time: Nov 11 13:53:31 2014
Quant Method : C:\msdchem\1\METHODS\TUNE525.M
Quant Title :
QLast Update : Thu Jun 05 10:52:45 2014
Response via : Initial Calibration
DataAcq Meth:PAHMN.M

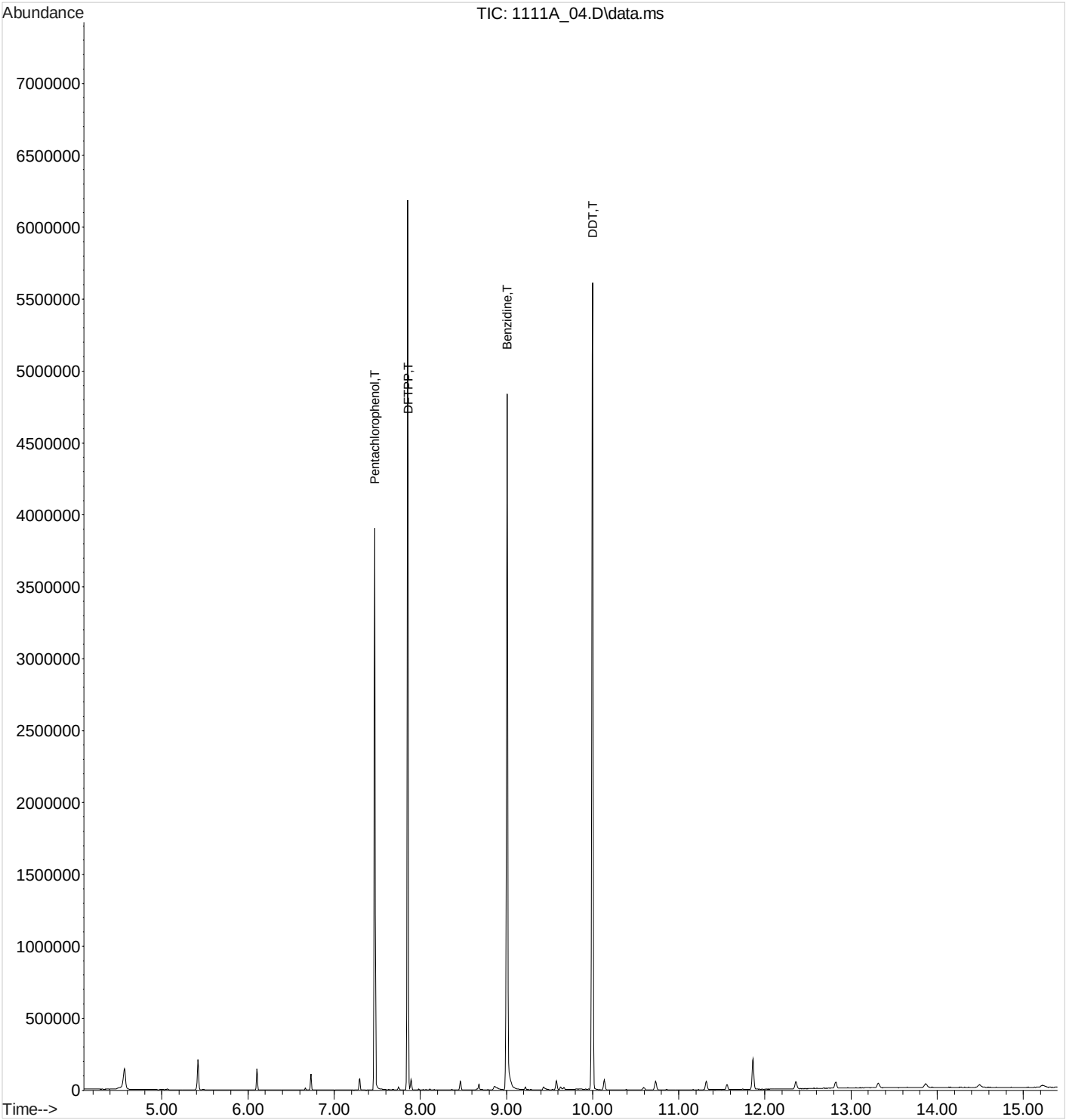
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Target Compounds						Qvalue
1) Pentachlorophenol	7.476	264	2000904	0.5328563	ppm	100
2) DFTPP	7.855	198	4653497	0.5453578	ppm	100
3) Benzidine	9.010	184	18284840	0.7372379	ppm	100
4) DDT	10.003	TIC	58441270	2.7292905	ppm	100
5) DDT	10.004	235	9882668	No Calib		

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\111114A\
Data File : 1111A 04.D
Acq On : 11 Nov 2014 1:37 pm
Operator : 280
Sample : TUNE DFTPP 2 PPM 14J03433
Misc : DFTPP TUNE 14J03433
ALS Vial : 2 Sample Multiplier: 1
InstName : BNAMS14

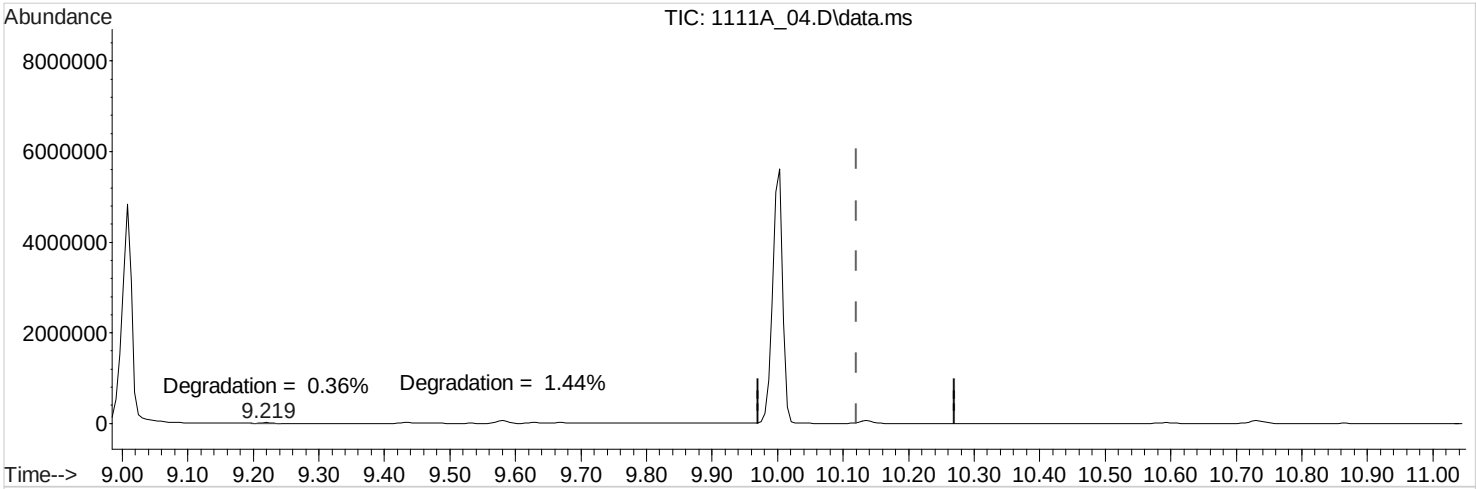
Quant Time: Nov 11 13:53:31 2014
Quant Method : C:\msdchem\1\METHODS\TUNE525.M
Quant Title :
QLast Update : Thu Jun 05 10:52:45 2014
Response via : Initial Calibration
DataAcq Meth:PAHMN.M

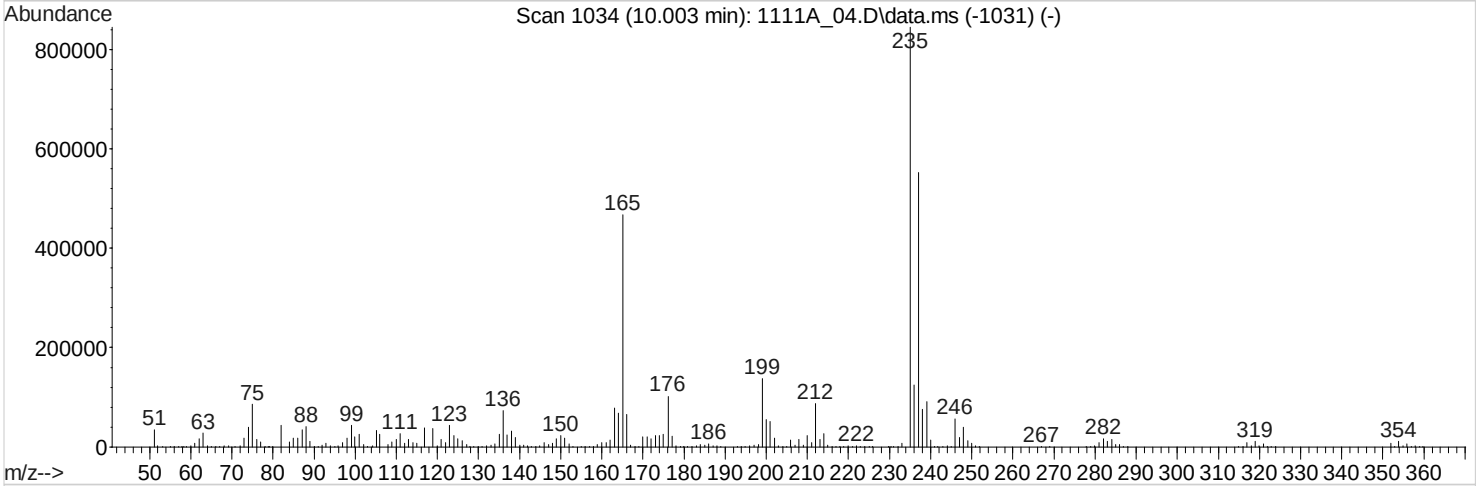


Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\DATA\111114A\
Data File : 1111A 04.D
Acq On    : 11 Nov 2014   1:37 pm
Operator  : 280
Sample    : TUNE DFTPP 2 PPM 14J03433
Misc      : DFTPP TUNE 14J03433
ALS Vial  : 2   Sample Multiplier: 1
InstName  : BNAMS14

Quant Time: Nov 11 13:53:31 2014
Quant Method : C:\msdchem\1\METHODS\TUNE525.M
Quant Title  :
QLast Update : Thu Jun 05 10:52:45 2014
Response via : Initial Calibration
DataAcq Meth:PAHMN.M
```





TIC: 1111A_04.D\data.ms

(4) DDT (T)

10.003min (-0.117) 2.7292905 ppm

Qvalue = 100

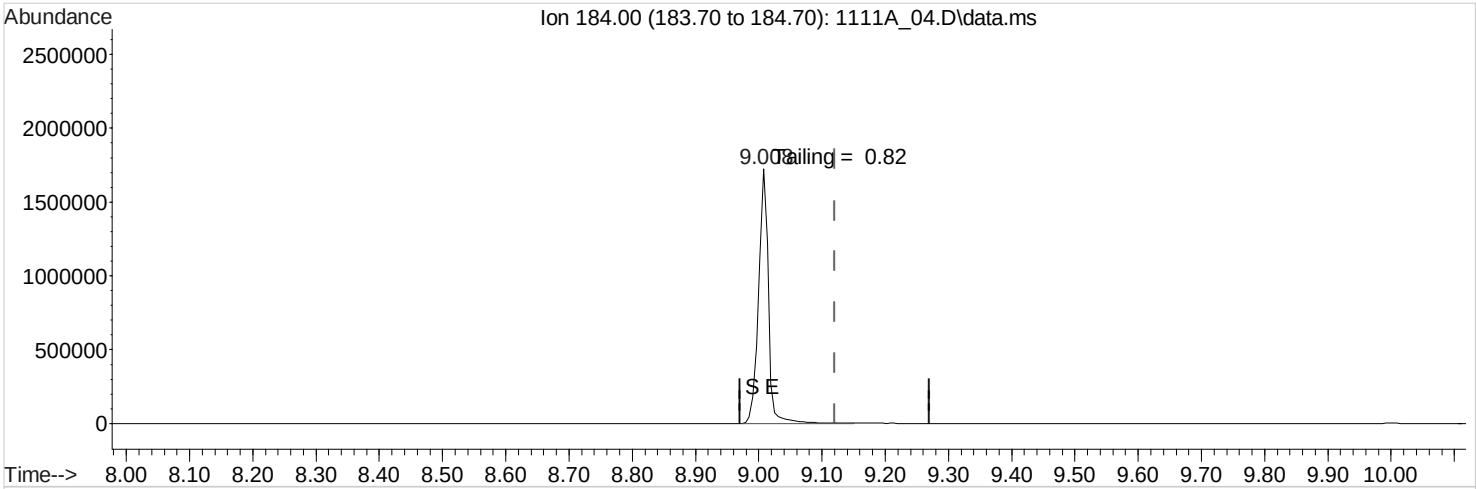
response 58441270

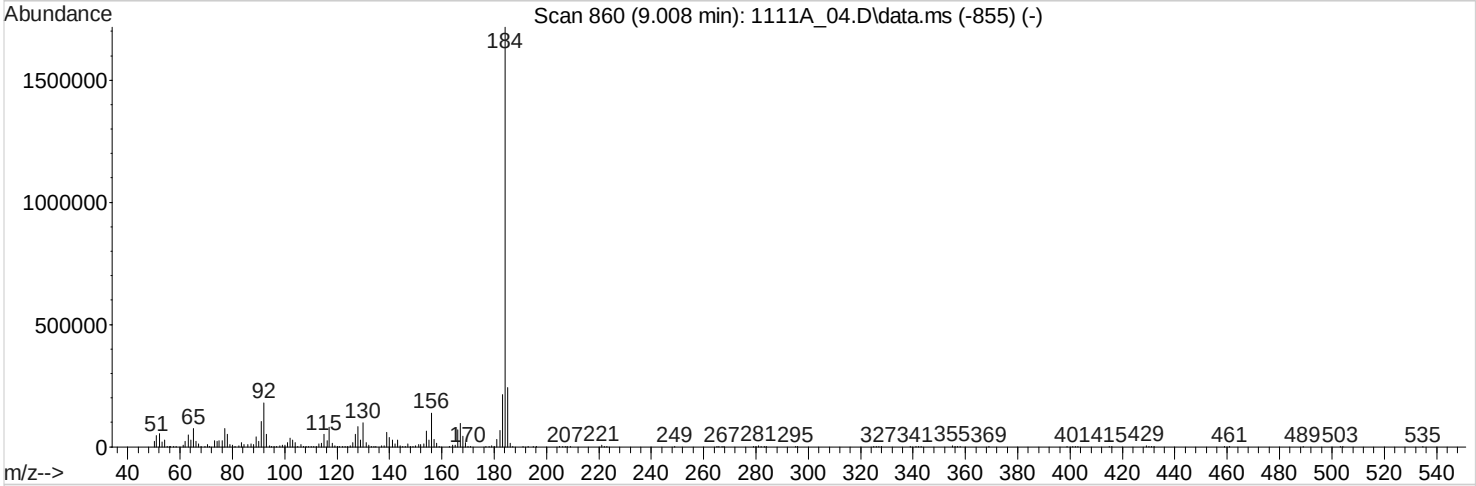
Signal	Exp%	Act%
TIC	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\DATA\111114A\
Data File : 1111A 04.D
Acq On    : 11 Nov 2014   1:37 pm
Operator  : 280
Sample    : TUNE DFTPP 2 PPM 14J03433
Misc      : DFTPP TUNE 14J03433
ALS Vial  : 2   Sample Multiplier: 1
InstName  : BNAMS14

Quant Time: Nov 11 13:53:31 2014
Quant Method : C:\msdchem\1\METHODS\TUNE525.M
Quant Title  :
QLast Update : Thu Jun 05 10:52:45 2014
Response via : Initial Calibration
DataAcq Meth:PAHMN.M
```





TIC: 1111A_04.D\data.ms

(3) Benzidine (T)

9.010min (-0.110) 0.7372379 ppm

Qvalue = 100

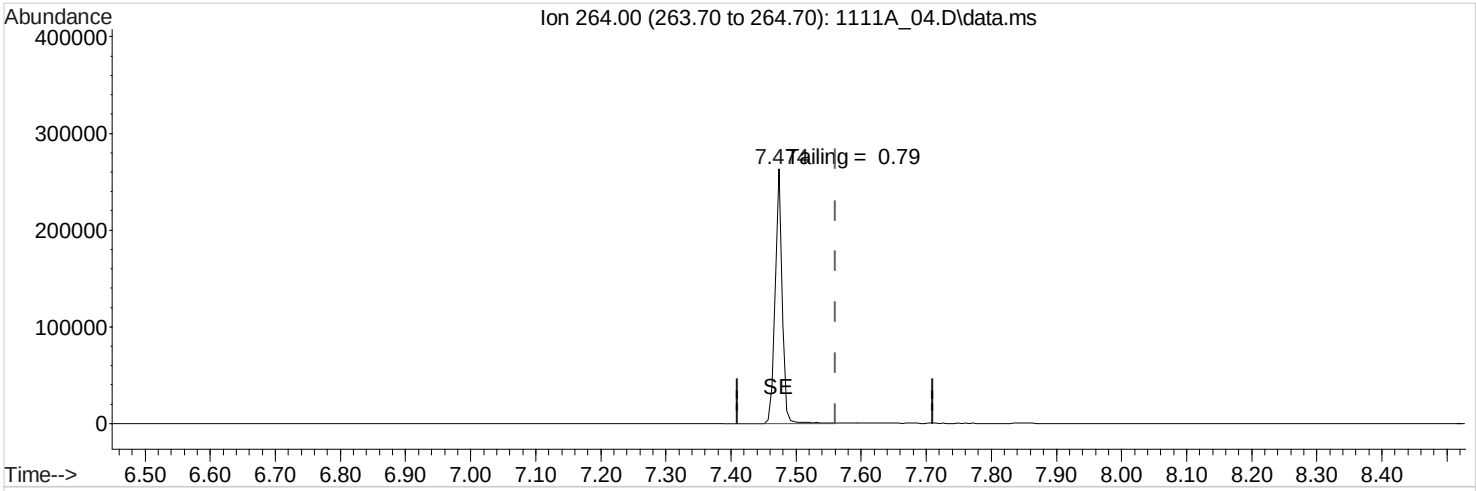
response 18284840

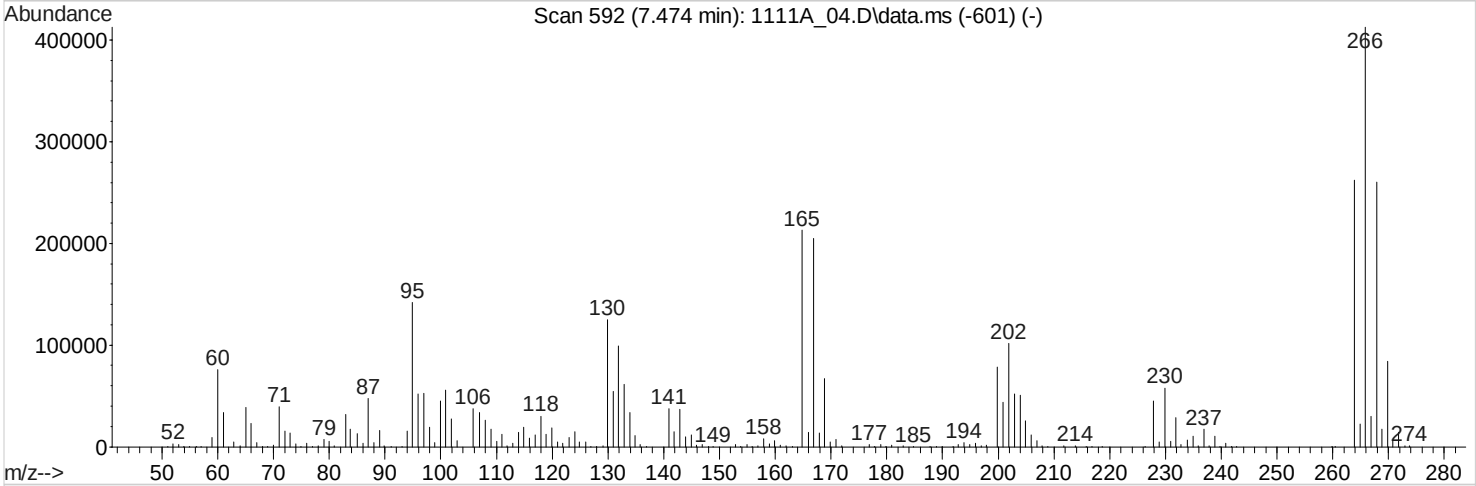
Ion	Exp%	Act%
184.00	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\DATA\111114A\
Data File : 1111A 04.D
Acq On    : 11 Nov 2014   1:37 pm
Operator  : 280
Sample    : TUNE DFTPP 2 PPM 14J03433
Misc      : DFTPP TUNE 14J03433
ALS Vial  : 2   Sample Multiplier: 1
InstName  : BNAMS14

Quant Time: Nov 11 13:53:31 2014
Quant Method : C:\msdchem\1\METHODS\TUNE525.M
Quant Title  :
QLast Update : Thu Jun 05 10:52:45 2014
Response via : Initial Calibration
DataAcq Meth:PAHMN.M
```





(1) Pentachlorophenol (T)

7.476min (-0.084) 0.5328563 ppm

Qvalue = 100

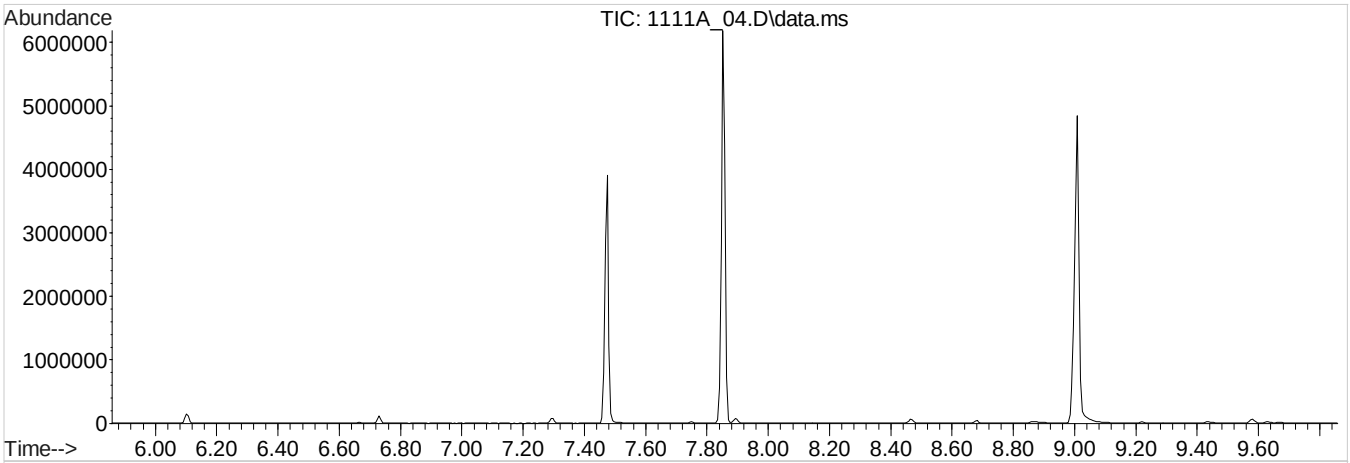
response 2000904

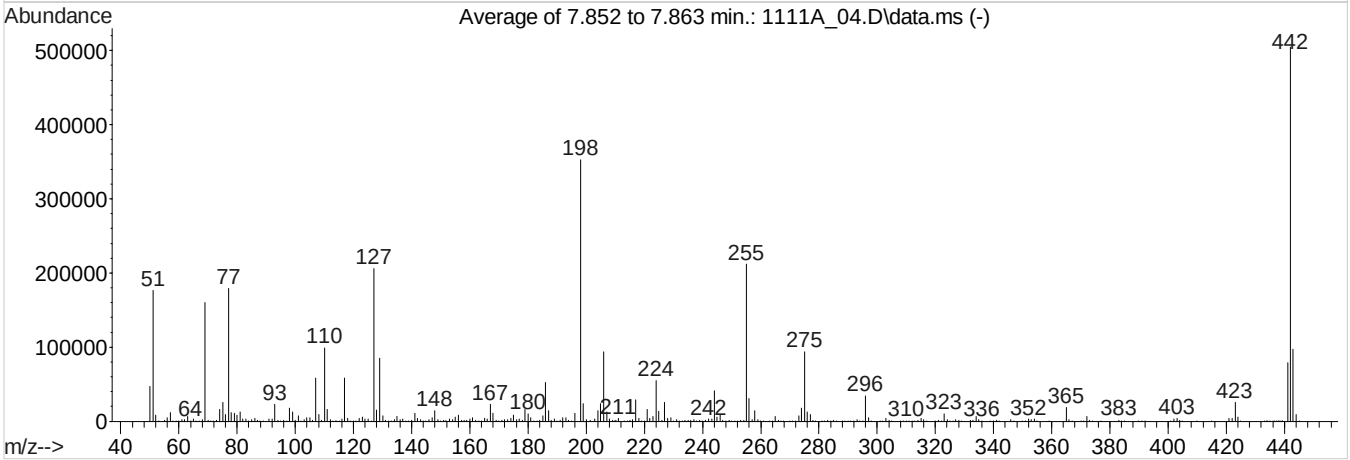
Ion	Exp%	Act%
264.00	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Data Path : C:\msdchem\1\DATA\111114A\
Data File : 1111A 04.D
Acq On : 11 Nov 2014 1:37 pm
Operator : 280
Sample : TUNE DFTPP 2 PPM 14J03433
Misc : DFTPP TUNE 14J03433
ALS Vial : 2 Sample Multiplier: 1

Integration File: events.e

Method : C:\msdchem\1\METHODS\TUNE525.M
Title :
Last Update : Thu Jun 05 10:52:45 2014





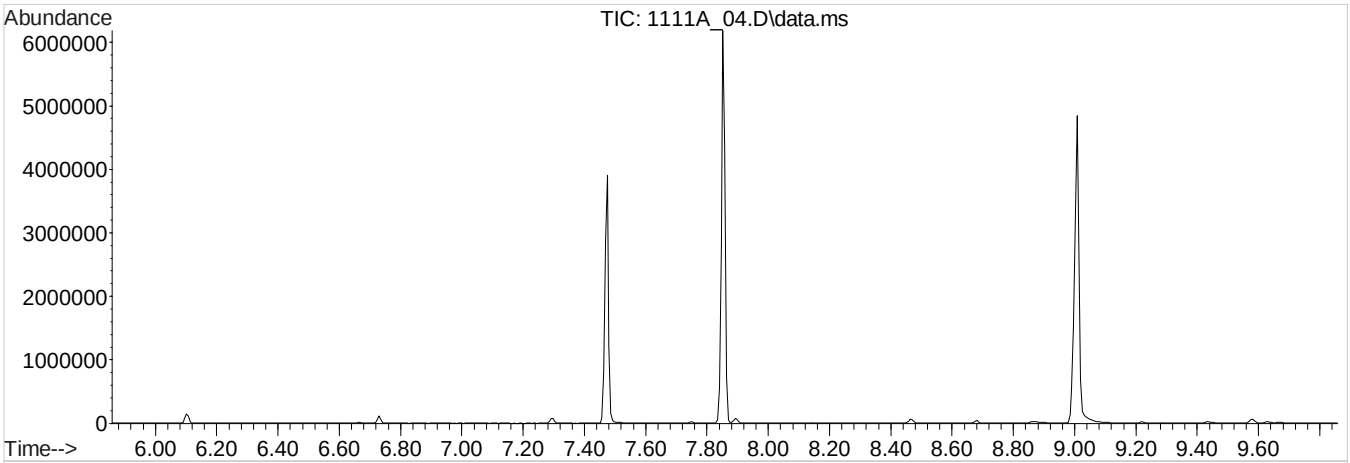
Spectrum Information: Average of 7.852 to 7.863 min.

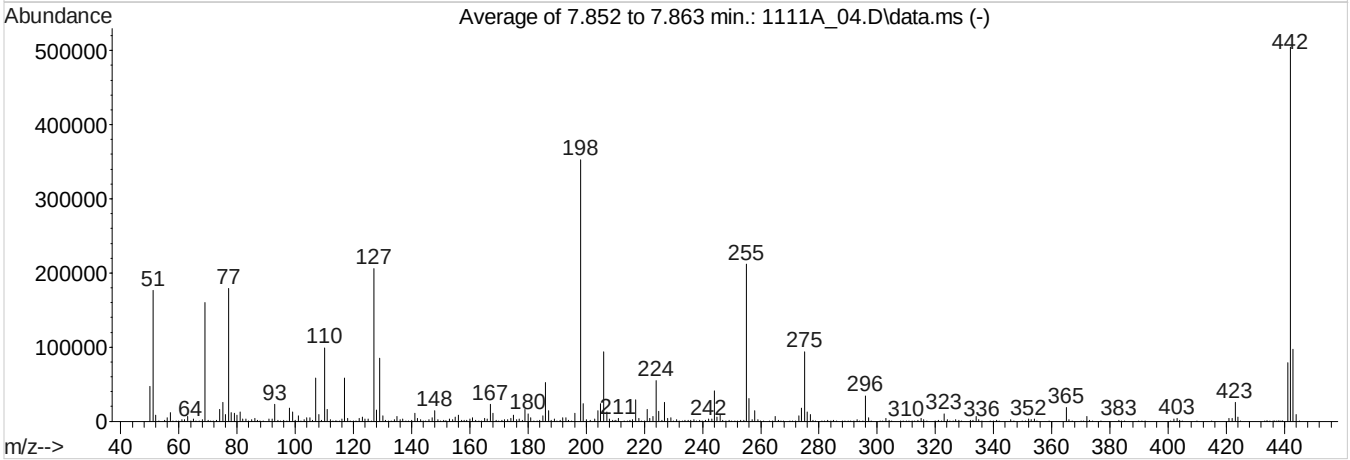
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	442	10	80	34.9	176289	PASS
68	69	0.00	2	1.6	2542	PASS
69	69	0.00	200	100.0	159829	PASS
70	69	0.00	2	0.6	951	PASS
127	442	10	80	40.7	205512	PASS
197	198	0.00	2	0.0	0	PASS
198	442	50	100	69.8	352531	PASS
199	198	5	9	6.7	23714	PASS
275	442	10	60	18.6	94000	PASS
365	442	1	100	3.6	18228	PASS
441	443	0.01	100	81.4	79008	PASS
442	442	50	100	100.0	504789	PASS
443	442	15	24	19.2	97115	PASS

Data Path : C:\msdchem\1\DATA\111114A\
Data File : 1111A 04.D
Acq On : 11 Nov 2014 1:37 pm
Operator : 280
Sample : TUNE DFTPP 2 PPM 14J03433
Misc : DFTPP TUNE 14J03433
ALS Vial : 2 Sample Multiplier: 1

Integration File: events.e

Method : C:\msdchem\1\METHODS\TUNE525.M
Title :
Last Update : Thu Jun 05 10:52:45 2014





Spectrum Information: Average of 7.852 to 7.863 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	442	10	80	34.9	176289	PASS
68	69	0.00	2	1.6	2542	PASS
69	69	0.00	200	100.0	159829	PASS
70	69	0.00	2	0.6	951	PASS
127	442	10	80	40.7	205512	PASS
197	198	0.00	2	0.0	0	PASS
198	442	50	100	69.8	352531	PASS
199	198	5	9	6.7	23714	PASS
275	442	10	60	18.6	94000	PASS
365	442	1	100	3.6	18228	PASS
441	443	0.01	100	81.4	79008	PASS
442	442	50	100	100.0	504789	PASS
443	442	15	24	19.2	97115	PASS

Environmental Science Corporation
12065 Lebanon Rd., Mt. Juliet, TN 37122

INITIAL CALIBRATION SUMMARY

Instrument ID	: BNAMS14	Review Method	: LVI PAH	Released By	: Fallon Labeots
Method	: SS14K11N	Review Protocol	: SW846	Released On	: 11/11/2014 5:26:26 PM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- SS14K11N -- ICal Updated Time: Tue Nov 11 17:05:52 2014

Parameter	1	5	10	20	40	80	200	1000	2000	AvgRF	%RSD	COD	Cur	RF
Naphthalene-d8														
Nitrobenzene-d5	0.244	0.328	0.339	0.348	0.343	0.332	0.352	0.318	0.322	0.324918	10.01	0.1	1	
Naphthalene	1.451	1.176	1.128	1.157	1.093	1.042	1.078	0.968	1.002	1.121625	12.59	0.126	1	0.7
2-Methylnaphthalene	0.747	0.725	0.714	0.746	0.713	0.681	0.719	0.66	0.717	0.713536	3.93	0.039	1	0.4
1-Methylnaphthalene	0.695	0.679	0.67	0.701	0.67	0.634	0.663	0.616	0.663	0.665661	4.05	0.04	1	
Acenaphthene-d10														
2-Fluorobiphenyl	1.465	1.44	1.385	1.465	1.381	1.329	1.398	1.344	1.48	1.409629	3.92	0.039	1	
2-Chloronaphthalene	1.363	1.335	1.29	1.359	1.293	1.246	1.31	1.248	1.357	1.311475	3.48	0.035	1	0.8
Acenaphthylene	1.864	1.828	1.794	1.914	1.868	1.842	2.005	1.993	2.173	1.920133	6.19	0.062	1	0.9
Acenaphthene	1.415	1.356	1.314	1.369	1.307	1.264	1.338	1.297	1.415	1.341537	3.89	0.039	1	0.9
Dibenzofuran	1.809	1.728	1.685	1.75	1.667	1.61	1.69	1.621	1.8	1.706555	4.17	0.042	1	0.8
Fluorene	1.513	1.424	1.391	1.47	1.407	1.368	1.467	1.482	1.652	1.463798	5.79	0.058	1	0.9
Phenanthrene-d10														
Phenanthrene	1.369	1.275	1.229	1.292	1.224	1.181	1.25	1.2	1.345	1.262608	5.05	0.05	1	0.7
Anthracene	1.119	1.152	1.154	1.222	1.204	1.166	1.254	1.229	1.397	1.210654	6.8	0.068	1	0.7
Fluoranthene	1.398	1.3	1.274	1.334	1.281	1.244	1.344	1.289	1.447	1.323528	4.91	0.049	1	0.6
Chrysene-d12														
Pyrene	1.308	1.21	1.185	1.219	1.173	1.131	1.207	1.125	1.201	1.195247	4.52	0.045	1	0.5
p-Terphenyl-d14	1.051	0.966	0.946	0.976	0.936	0.891	0.946	0.903	1.01	0.958339	5.23	0.052	1	
Benzo(a)anthracene	1.317	1.175	1.149	1.211	1.18	1.151	1.236	1.172	1.229	1.202265	4.41	0.044	1	0.8
Chrysene	1.377	1.278	1.254	1.29	1.201	1.147	1.18	1.101	1.158	1.220655	7.07	0.071	1	0.7
Perylene-d12														
Benzo(b)fluoranthene	1.033	1.032	0.969	1.057	1.064	1.063	1.137	1.124	1.223	1.078036	6.84	0.068	1	0.7

PDF Generated On: 11/11/2014 - By: Fallon Labeots

Environmental Science Corporation
12065 Lebanon Rd., Mt. Juliet, TN 37122

INITIAL CALIBRATION SUMMARY

Instrument ID	: BNAMS14	Review Method	: LVI PAH	Released By	: Fallon Labeots
Method	: SS14K11N	Review Protocol	: SW846	Released On	: 11/11/2014 5:26:26 PM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- SS14K11N -- ICal Updated Time: Tue Nov 11 17:05:52 2014

Parameter	1	5	10	20	40	80	200	1000	2000	AvgRF	%RSD	COD	Cur	RF
Benzo(k)fluoranthene	1.302	1.229	1.244	1.263	1.149	1.082	1.119	1.051	1.164	1.178132	7.3	0.073	1	0.7
Benzo(a)pyrene	0.928	0.881	0.957	1.005	0.973	0.946	1.023	0.988	1.08	0.975589	5.89	0.059	1	0.7
Indeno(1,2,3-cd)pyrene	1.397	1.317	1.311	1.38	1.327	1.292	1.387	1.397	1.506	1.368206	4.8	0.048	1	0.5
Dibenz(a,h)anthracene	1.139	1.115	1.101	1.156	1.113	1.08	1.152	1.199	1.356	1.15667	7.13	0.071	1	0.4
Benzo(g,h,i)perylene	1.176	1.142	1.11	1.159	1.119	1.074	1.131	1.057	1.082	1.116714	3.6	0.036	1	0.5

PDF Generated On: 11/11/2017 -- By: Fallon Labeots

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\111114A\
Data File : 1111A 14.D
Acq On : 11 Nov 2014 5:04 pm
Operator : 280
Sample : SSCV SIMLVI 40 PPB 14I18662
Misc : SIM/PAH STD
ALS Vial : 50 Sample Multiplier: 1
InstName : BNAMS14

Quant Time: Nov 11 17:23:20 2014
Quant Method : C:\msdchem\1\METHODS\SS14K11N.M
Quant Title : 8270 BNA
QLast Update : Tue Nov 11 17:05:52 2014
Response via : Initial Calibration
DataAcq Meth:SIMMN.M

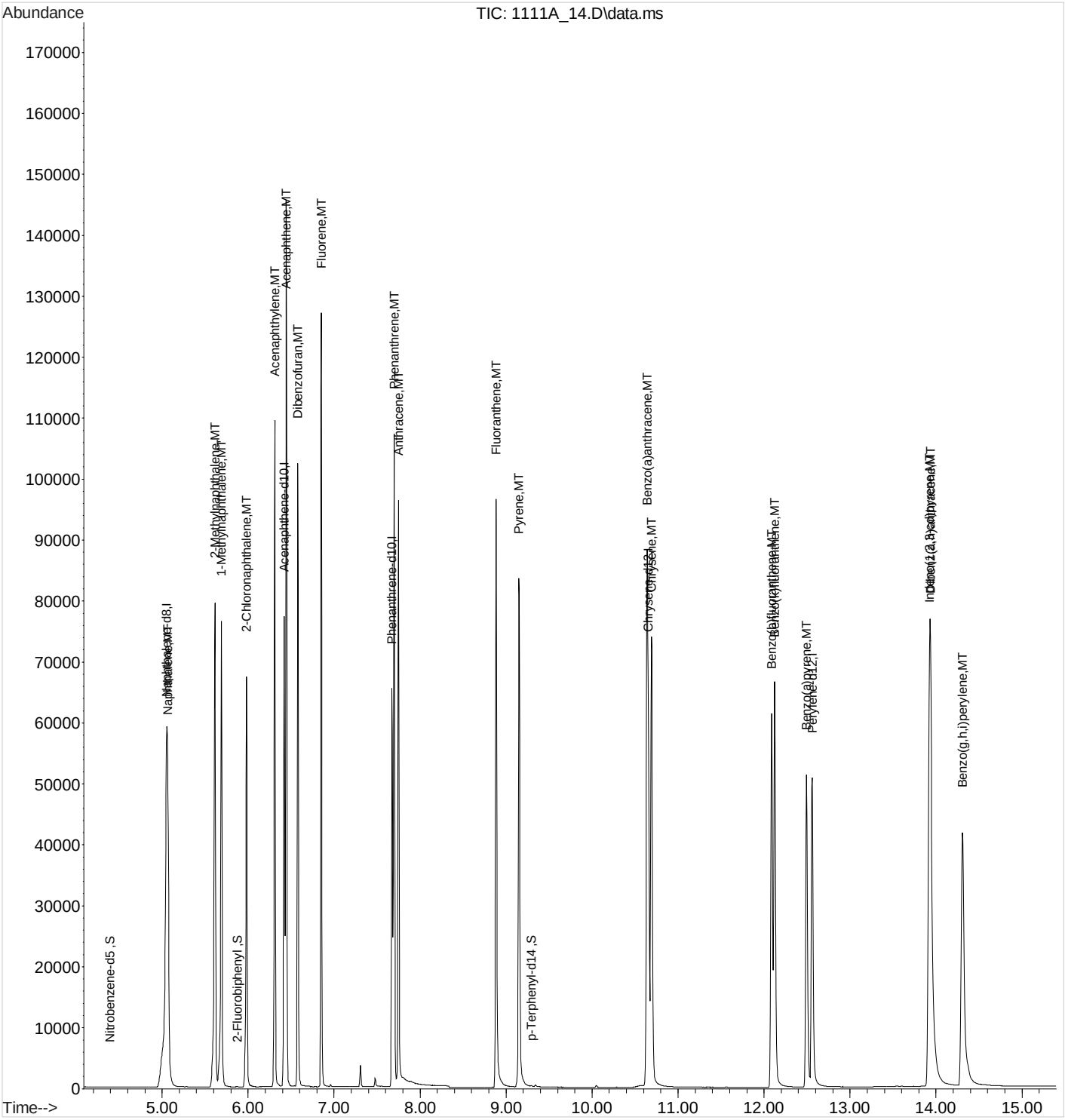
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Naphthalene-d8	5.049	136	65492	40.0000000	ppb	0.00
6) Acenaphthene-d10	6.421	164	35425	40.0000000	ppb	0.00
13) Phenanthrene-d10	7.673	188	55087	40.0000000	ppb	0.00
17) Chrysene-d12	10.654	240	55698	40.0000000	ppb	0.00
22) Perylene-d12	12.562	264	60790	40.0000000	ppb	0.00
System Monitoring Compounds						
2) Nitrobenzene-d5	4.393	82	7	0.0131582	ppb	-0.04
Spiked Amount 2.000	Range 45 - 170		Recovery = 0.66%#			
7) 2-Fluorobiphenyl	5.876	172	57	0.0456583	ppb	0.00
Spiked Amount 2.000	Range 58 - 153		Recovery = 2.28%#			
19) p-Terphenyl-d14	9.295	244	149	0.1116574	ppb	0.00
Spiked Amount 2.000	Range 53 - 156		Recovery = 5.58%#			
Target Compounds						Qvalue
3) Naphthalene	5.064	128	74443	40.5366675	ppb	100
4) 2-Methylnaphthalene	5.614	142	48668	41.6581126	ppb	100
5) 1-Methylnaphthalene	5.692	142	45716	41.9456507	ppb	98
8) 2-Chloronaphthalene	5.981	162	47711	41.0779507	ppb	98
9) Acenaphthylene	6.311	152	69869	41.0869033	ppb	100
10) Acenaphthene	6.443	153	48620	40.9225338	ppb	99
11) Dibenzofuran	6.579	168	62237	41.1792665	ppb	96
12) Fluorene	6.852	166	51987	40.1017849	ppb	98
14) Phenanthrene	7.697	178	70746	40.6859164	ppb	100
15) Anthracene	7.748	178	68451	41.0554167	ppb	99
16) Fluoranthene	8.885	202	74649	40.9545247	ppb	99
18) Pyrene	9.150	202	68343	41.0635734	ppb	98
20) Benzo(a)anthracene	10.640	228	68999	41.2157178	ppb	100
21) Chrysene	10.690	228	69853	41.0972430	ppb	100
23) Benzo(b)fluoranthene	12.089	252	68456	41.7836400	ppb	100
24) Benzo(k)fluoranthene	12.121	252	72268	40.3626584	ppb	100
25) Benzo(a)pyrene	12.492	252	61501	41.4804382	ppb	99
26) Indeno(1,2,3-cd)pyrene	13.923	276	83844	40.3225843	ppb	100
27) Dibenz(a,h)anthracene	13.934	278	69597	39.5921398	ppb	98
28) Benzo(g,h,i)perylene	14.308	276	69215	40.7836573	ppb	100

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\111114A\
Data File : 1111A 14.D
Acq On : 11 Nov 2014 5:04 pm
Operator : 280
Sample : SSCV SIMLVI 40 PPB 14I18662
Misc : SIM/PAH STD
ALS Vial : 50 Sample Multiplier: 1
InstName : BNAMS14

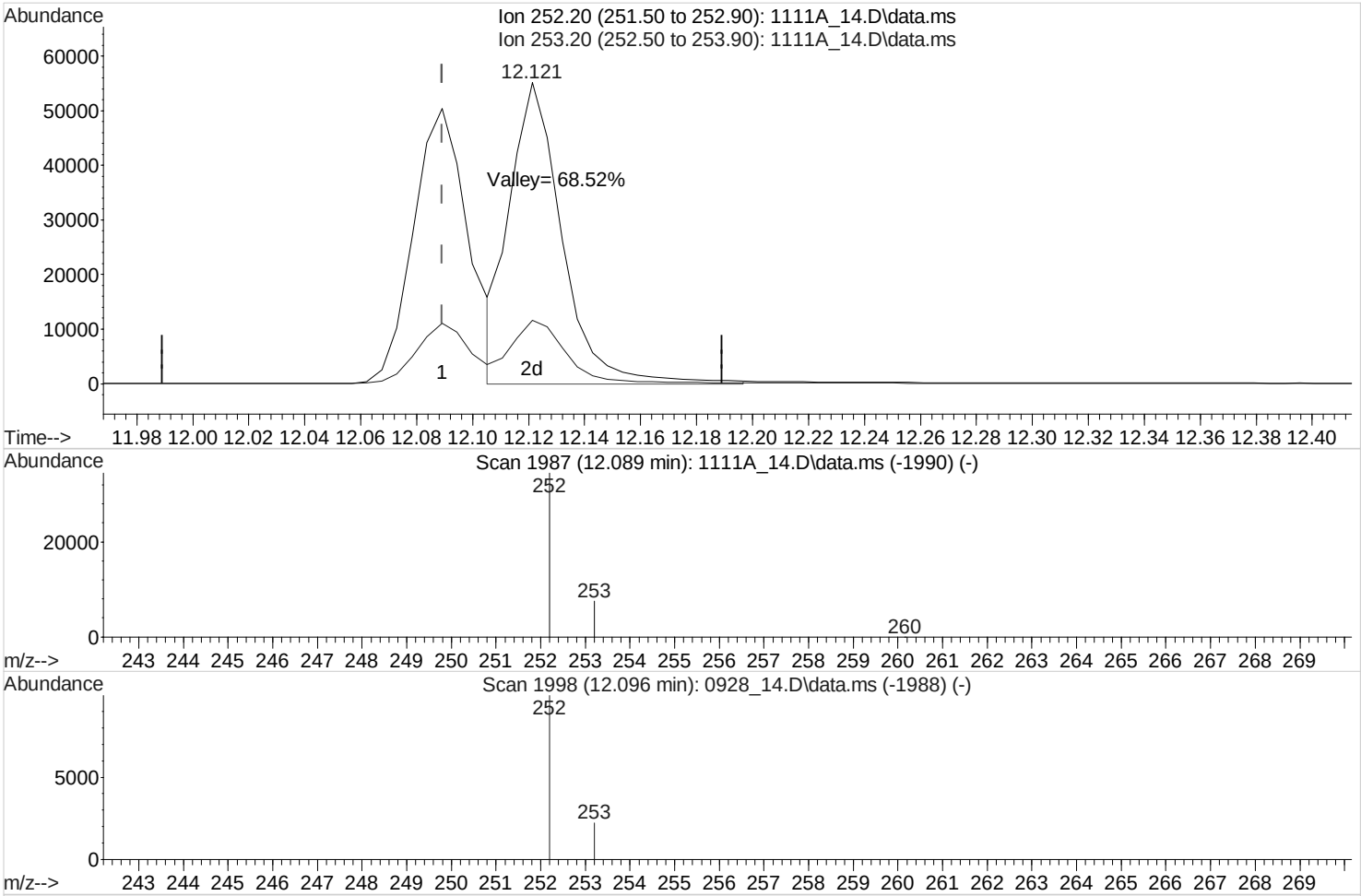
Quant Time: Nov 11 17:23:20 2014
Quant Method : C:\msdchem\1\METHODS\SS14K11N.M
Quant Title : 8270 BNA
QLast Update : Tue Nov 11 17:05:52 2014
Response via : Initial Calibration
DataAcq Meth:SIMMN.M



Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\DATA\111114A\
Data File : 1111A 14.D
Acq On    : 11 Nov 2014   5:04 pm
Operator  : 280
Sample    : SSCV SIMLVI 40 PPB 14I18662
Misc      : SIM/PAH STD
ALS Vial  : 50   Sample Multiplier: 1
InstName  : BNAMS14

Quant Time: Nov 11 17:23:20 2014
Quant Method : C:\msdchem\1\METHODS\SS14K11N.M
Quant Title  : 8270 BNA
QLast Update : Tue Nov 11 17:05:52 2014
Response via : Initial Calibration
DataAcq Meth:SIMMN.M
```



(23) Benzo(b)fluoranthene (MT)

12.089min (-0.000) 41.7836400 ppb

Qvalue = 100

response 68456

Ion	Exp%	Act%
252.20	100	100
253.20	22.10	21.86
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\111114A\
Data File : 1111A 05.D
Acq On : 11 Nov 2014 1:58 pm
Operator : 280
Sample : MSTD SIMLVI 40 PPB 14I18662
Misc : SIM/PAH STD
ALS Vial : 41 Sample Multiplier: 1
InstName : BNAMS14

Quant Time: Nov 11 17:01:46 2014
Quant Method : C:\msdchem\1\METHODS\SS14K11N.M
Quant Title : 8270 BNA
QLast Update : Tue Nov 11 17:01:43 2014
Response via : Initial Calibration
DataAcq Meth:SIMMN.M

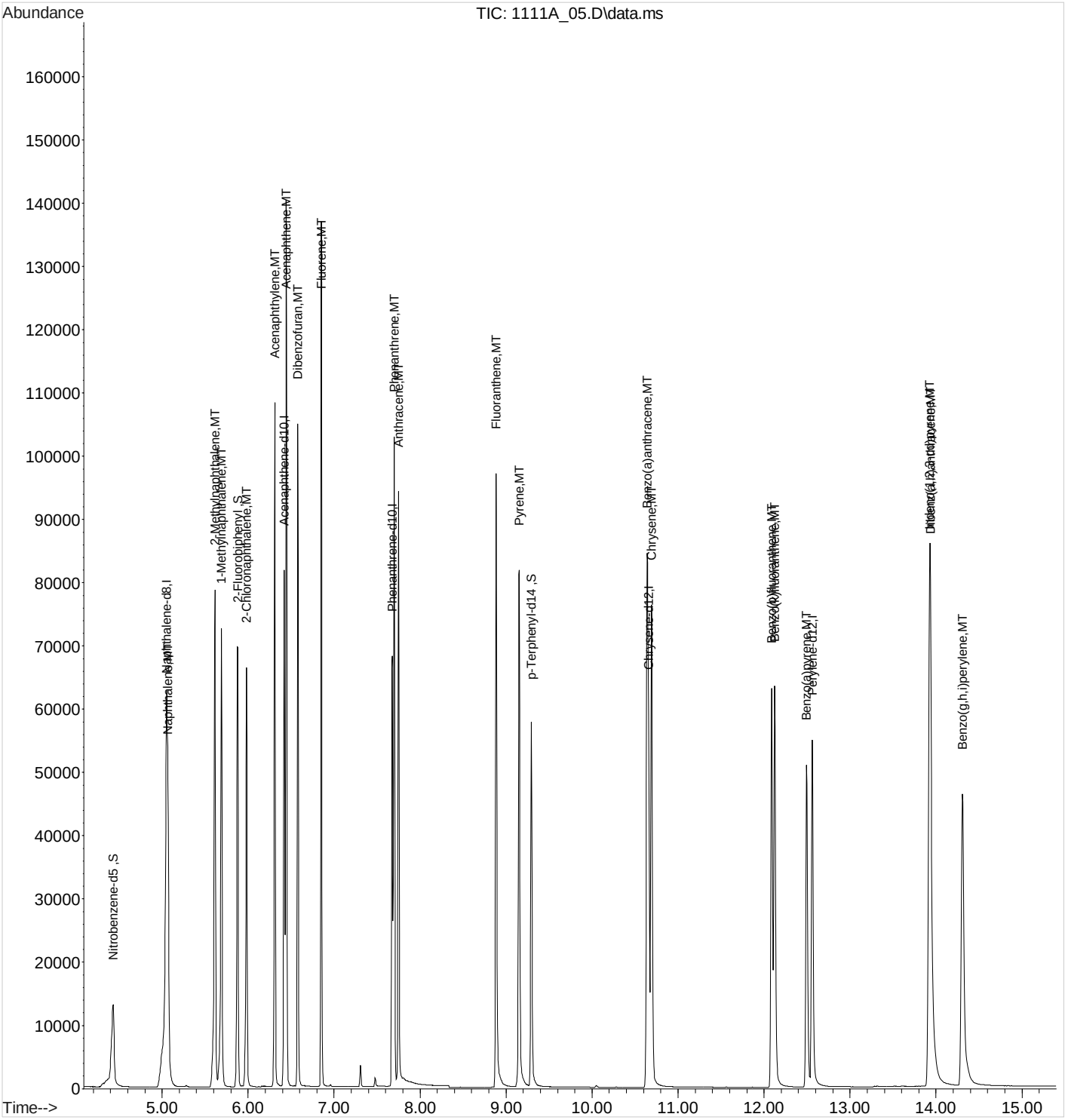
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Naphthalene-d8	5.049	136	68056	40.0000000	ppb	0.00
6) Acenaphthene-d10	6.421	164	37039	40.0000000	ppb	0.00
13) Phenanthrene-d10	7.677	188	57869	40.0000000	ppb	0.00
17) Chrysene-d12	10.659	240	57589	40.0000000	ppb	0.00
22) Perylene-d12	12.562	264	62231	40.0000000	ppb	0.00
System Monitoring Compounds						
2) Nitrobenzene-d5	4.434	82	23349	40.0017132	ppb	0.00
Spiked Amount 2.000	Range 45 - 170		Recovery = 2000.09%#			
7) 2-Fluorobiphenyl	5.880	172	51138	39.9902805	ppb	0.00
Spiked Amount 2.000	Range 58 - 153		Recovery = 1999.51%#			
19) p-Terphenyl-d14	9.292	244	53880	39.9799655	ppb	0.00
Spiked Amount 2.000	Range 53 - 156		Recovery = 1999.00%#			
Target Compounds						Qvalue
3) Naphthalene	5.068	128	74362	40.0000000	ppb	100
4) 2-Methylnaphthalene	5.614	142	48507	40.0000000	ppb	100
5) 1-Methylnaphthalene	5.692	142	45589	40.0000000	ppb	100
8) 2-Chloronaphthalene	5.981	162	47901	39.9902805	ppb	100
9) Acenaphthylene	6.312	152	69191	39.9845017	ppb	100
10) Acenaphthene	6.443	153	48410	39.9902805	ppb	100
11) Dibenzofuran	6.579	168	61750	39.9851003	ppb	100
12) Fluorene	6.852	166	52115	39.9902805	ppb	100
14) Phenanthrene	7.697	178	70829	40.0000000	ppb	100
15) Anthracene	7.748	178	69661	39.9203438	ppb	100
16) Fluoranthene	8.885	202	74152	40.0000000	ppb	100
18) Pyrene	9.154	202	67531	40.0000000	ppb	100
20) Benzo(a)anthracene	10.640	228	67940	40.0000000	ppb	100
21) Chrysene	10.691	228	69168	40.0214086	ppb	100
23) Benzo(b)fluoranthene	12.089	252	66223	40.0000000	ppb	100
24) Benzo(k)fluoranthene	12.121	252	71523	40.0000000	ppb	100
25) Benzo(a)pyrene	12.492	252	60527	39.9947138	ppb	100
26) Indeno(1,2,3-cd)pyrene	13.923	276	82606	40.0000000	ppb	100
27) Dibenz(a,h)anthracene	13.934	278	69246	40.0000000	ppb	100
28) Benzo(g,h,i)perylene	14.308	276	69613	40.0000000	ppb	100

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

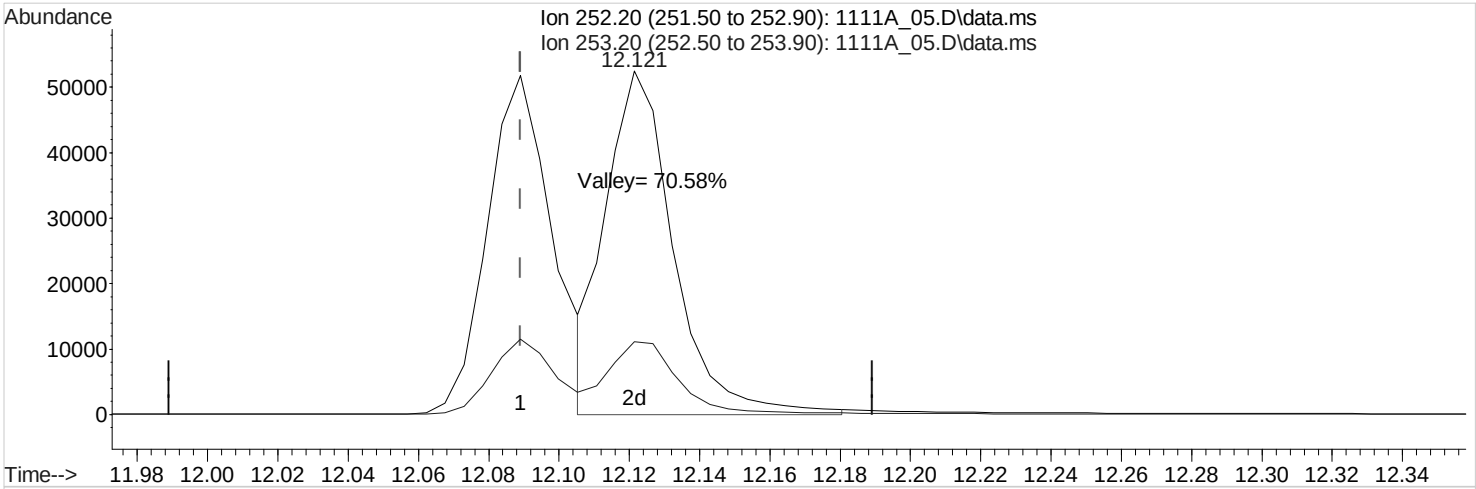
Data Path : C:\msdchem\1\DATA\111114A\
Data File : 1111A 05.D
Acq On : 11 Nov 2014 1:58 pm
Operator : 280
Sample : MSTD SIMLVI 40 PPB 14I18662
Misc : SIM/PAH STD
ALS Vial : 41 Sample Multiplier: 1
InstName : BNAMS14

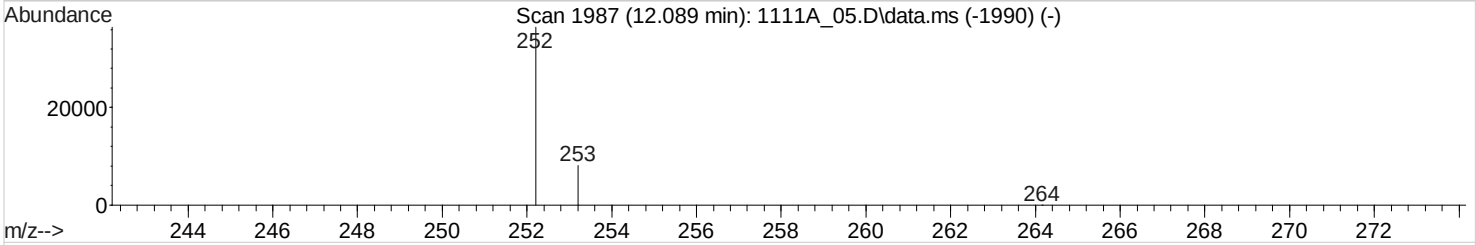
Quant Time: Nov 11 17:01:46 2014
Quant Method : C:\msdchem\1\METHODS\SS14K11N.M
Quant Title : 8270 BNA
QLast Update : Tue Nov 11 17:01:43 2014
Response via : Initial Calibration
DataAcq Meth:SIMMN.M

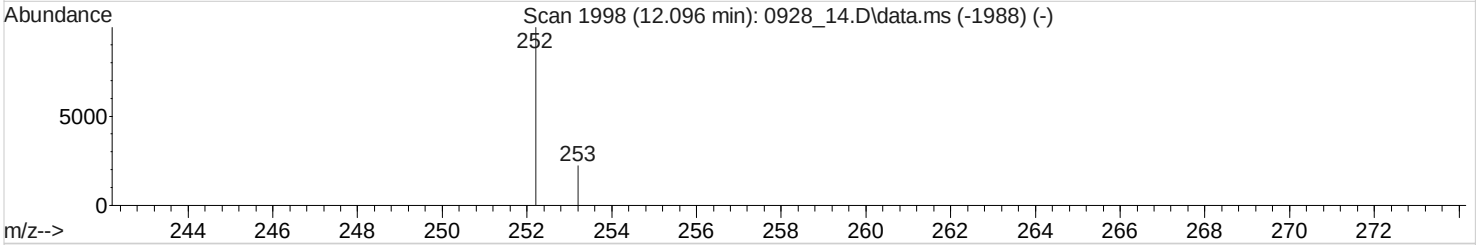


```
Data Path : C:\msdchem\1\DATA\111114A\
Data File : 1111A 05.D
Acq On    : 11 Nov 2014   1:58 pm
Operator  : 280
Sample    : MSTD SIMLVI 40 PPB 14I18662
Misc      : SIM/PAH STD
ALS Vial  : 41   Sample Multiplier: 1
InstName  : BNAMS14

Quant Time: Nov 11 17:01:46 2014
Quant Method : C:\msdchem\1\METHODS\SS14K11N.M
Quant Title  : 8270 BNA
QLast Update : Tue Nov 11 17:01:43 2014
Response via : Initial Calibration
DataAcq Meth:SIMMN.M
```







TIC: 1111A_05.D\data.ms

(23) Benzo(b)fluoranthene (MT)

12.089min (0.000) 40.0000000 ppb

Qvalue = 100

response 66223

Ion	Exp%	Act%
252.20	100	100
253.20	22.10	22.09
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\111114A\
Data File : 1111A 06.D
Acq On : 11 Nov 2014 2:18 pm
Operator : 280
Sample : STD SIMLVI 1 PPB 14I18662
Misc : SIM/PAH STD
ALS Vial : 42 Sample Multiplier: 1
InstName : BNAMS14

Quant Time: Nov 11 17:02:08 2014
Quant Method : C:\msdchem\1\METHODS\SS14K11N.M
Quant Title : 8270 BNA
QLast Update : Tue Nov 11 17:02:05 2014
Response via : Initial Calibration
DataAcq Meth:SIMMN.M

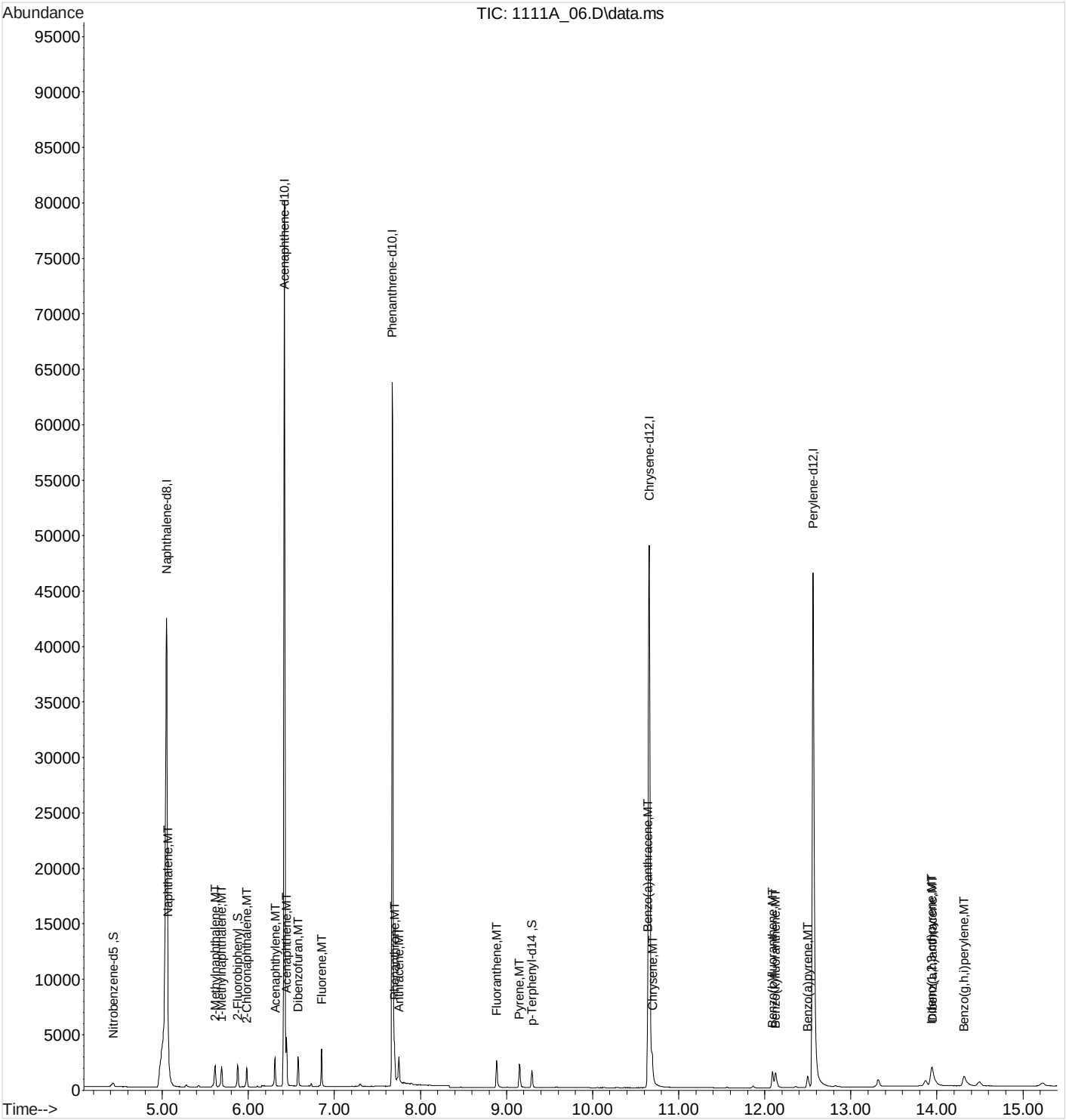
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Naphthalene-d8	5.049	136	69934	40.0000000	ppb	0.00
6) Acenaphthene-d10	6.417	164	37646	40.0000000	ppb	0.00
13) Phenanthrene-d10	7.673	188	57330	40.0000000	ppb	0.00
17) Chrysene-d12	10.659	240	56847	40.0000000	ppb	0.00
22) Perylene-d12	12.562	264	60929	40.0000000	ppb	0.00
System Monitoring Compounds						
2) Nitrobenzene-d5	4.430	82	426	0.7101979	ppb	0.00
Spiked Amount 2.000	Range 45 - 170		Recovery = 35.51%#			
7) 2-Fluorobiphenyl	5.876	172	1379	1.0612579	ppb	0.00
Spiked Amount 2.000	Range 58 - 153		Recovery = 53.06%#			
19) p-Terphenyl-d14	9.295	244	1494	1.1236084	ppb	0.00
Spiked Amount 2.000	Range 53 - 156		Recovery = 56.18%			
Target Compounds						Qvalue
3) Naphthalene	5.064	128	2536	1.3275052	ppb	100
4) 2-Methylnaphthalene	5.614	142	1306	1.0480375	ppb	98
5) 1-Methylnaphthalene	5.692	142	1215	1.0374191	ppb	97
8) 2-Chloronaphthalene	5.981	162	1283	1.0541016	ppb	100
9) Acenaphthylene	6.312	152	1754	0.9976550	ppb	100
10) Acenaphthene	6.443	153	1332	1.0828531	ppb	99
11) Dibenzofuran	6.579	168	1703	1.0853707	ppb	98
12) Fluorene	6.852	166	1424	1.0753446	ppb	100
14) Phenanthrene	7.697	178	1962	1.1184380	ppb	99
15) Anthracene	7.748	178	1604	0.9296911	ppb	99
16) Fluoranthene	8.885	202	2004	1.0911862	ppb	100
18) Pyrene	9.150	202	1859	1.1154964	ppb	98
20) Benzo(a)anthracene	10.640	228	1871	1.1159384	ppb	100
21) Chrysene	10.695	228	1957	1.1465093	ppb	98
23) Benzo(b)fluoranthene	12.089	252	1573	0.9704264	ppb	99
24) Benzo(k)fluoranthene	12.121	252	1983	1.1327126	ppb	100
25) Benzo(a)pyrene	12.498	252	1414	0.9544276	ppb	99
26) Indeno(1,2,3-cd)pyrene	13.934	276	2128	1.0524531	ppb	99
27) Dibenz(a,h)anthracene	13.945	278	1735	1.0236406	ppb	95
28) Benzo(g,h,i)perylene	14.314	276	1792	1.0516964	ppb	99

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\111114A\
Data File : 1111A 06.D
Acq On : 11 Nov 2014 2:18 pm
Operator : 280
Sample : STD SIMLVI 1 PPB 14I18662
Misc : SIM/PAH STD
ALS Vial : 42 Sample Multiplier: 1
InstName : BNAMS14

Quant Time: Nov 11 17:02:08 2014
Quant Method : C:\msdchem\1\METHODS\SS14K11N.M
Quant Title : 8270 BNA
QLast Update : Tue Nov 11 17:02:05 2014
Response via : Initial Calibration
DataAcq Meth:SIMMN.M



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\111114A\
Data File : 1111A 07.D
Acq On : 11 Nov 2014 2:39 pm
Operator : 280
Sample : STD SIMLVI 5 PPB 14I18662
Misc : SIM/PAH STD
ALS Vial : 43 Sample Multiplier: 1
InstName : BNAMS14

Quant Time: Nov 11 17:02:38 2014
Quant Method : C:\msdchem\1\METHODS\SS14K11N.M
Quant Title : 8270 BNA
QLast Update : Tue Nov 11 17:02:34 2014
Response via : Initial Calibration
DataAcq Meth:SIMMN.M

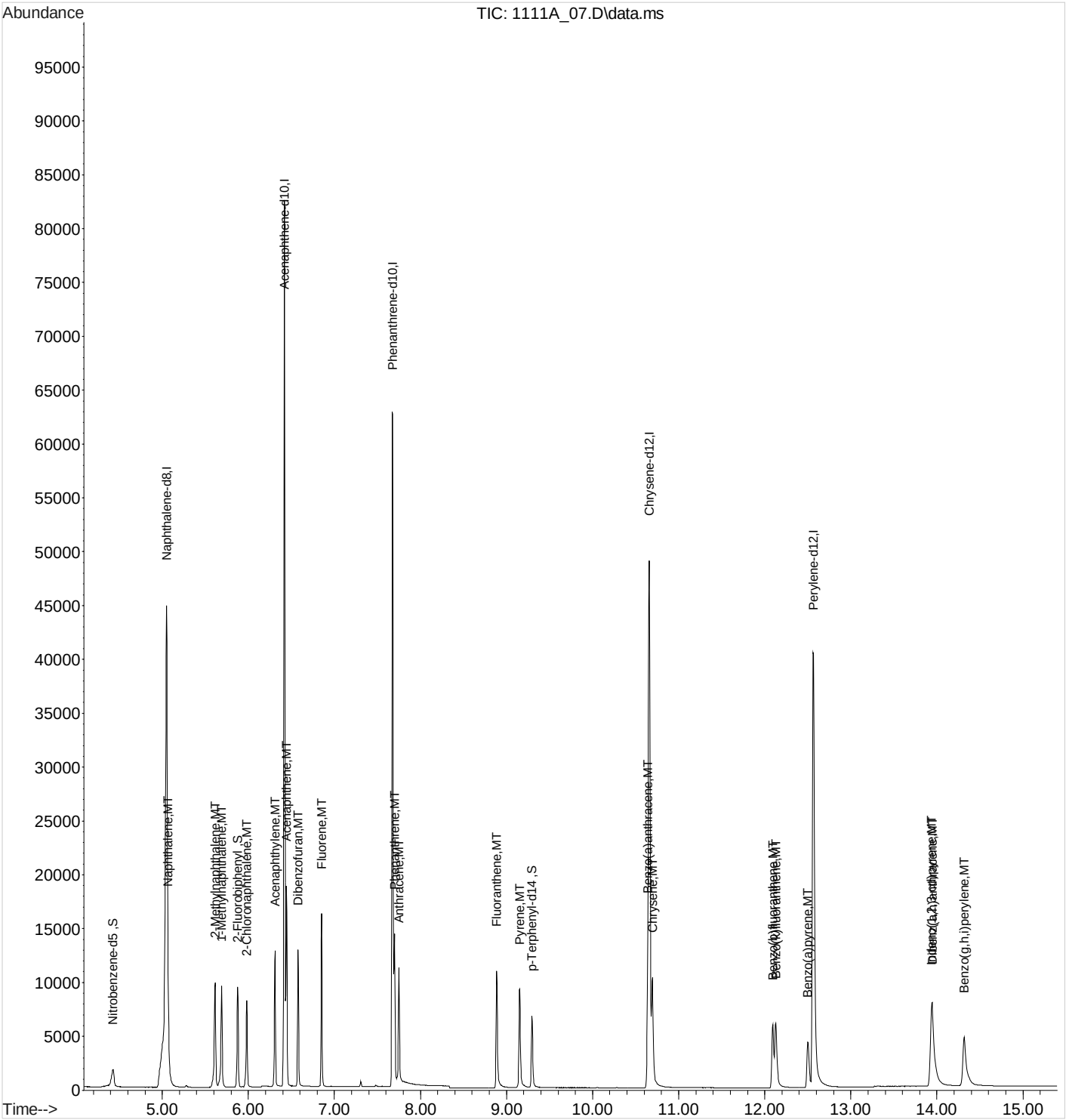
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Naphthalene-d8	5.049	136	68360	40.0000000	ppb	0.00
6) Acenaphthene-d10	6.417	164	36824	40.0000000	ppb	0.00
13) Phenanthrene-d10	7.677	188	56342	40.0000000	ppb	0.00
17) Chrysene-d12	10.659	240	55421	40.0000000	ppb	0.00
22) Perylene-d12	12.568	264	58824	40.0000000	ppb	0.00
System Monitoring Compounds						
2) Nitrobenzene-d5	4.426	82	2801	5.5866674	ppb	0.00
Spiked Amount 2.000	Range 45 - 170		Recovery = 279.33%#			
7) 2-Fluorobiphenyl	5.876	172	6630	5.0612261	ppb	0.00
Spiked Amount 2.000	Range 58 - 153		Recovery = 253.06%#			
19) p-Terphenyl-d14	9.295	244	6695	4.8641137	ppb	0.00
Spiked Amount 2.000	Range 53 - 156		Recovery = 243.21%#			
Target Compounds						Qvalue
3) Naphthalene	5.064	128	10052	4.6255684	ppb	100
4) 2-Methylnaphthalene	5.614	142	6196	4.9673350	ppb	99
5) 1-Methylnaphthalene	5.692	142	5799	4.9724110	ppb	99
8) 2-Chloronaphthalene	5.981	162	6147	5.0270706	ppb	100
9) Acenaphthylene	6.312	152	8416	4.8995242	ppb	100
10) Acenaphthene	6.443	153	6241	4.9805664	ppb	99
11) Dibenzofuran	6.579	168	7952	4.9690621	ppb	100
12) Fluorene	6.852	166	6555	4.8768345	ppb	100
14) Phenanthrene	7.697	178	8979	4.9170520	ppb	99
15) Anthracene	7.748	178	8111	4.9579324	ppb	100
16) Fluoranthene	8.885	202	9154	4.8506399	ppb	99
18) Pyrene	9.154	202	8379	4.8756428	ppb	100
20) Benzo(a)anthracene	10.640	228	8140	4.7070738	ppb	100
21) Chrysene	10.695	228	8854	4.9574311	ppb	98
23) Benzo(b)fluoranthene	12.095	252	7586	4.9202366	ppb	99
24) Benzo(k)fluoranthene	12.127	252	9034	5.0123831	ppb	99
25) Benzo(a)pyrene	12.498	252	6479	4.6353386	ppb	98
26) Indeno(1,2,3-cd)pyrene	13.934	276	9685	4.8345606	ppb	100
27) Dibenz(a,h)anthracene	13.950	278	8199	4.9519360	ppb	99
28) Benzo(g,h,i)perylene	14.319	276	8400	4.9775778	ppb	99

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\111114A\
Data File : 1111A 07.D
Acq On : 11 Nov 2014 2:39 pm
Operator : 280
Sample : STD SIMLVI 5 PPB 14I18662
Misc : SIM/PAH STD
ALS Vial : 43 Sample Multiplier: 1
InstName : BNAMS14

Quant Time: Nov 11 17:02:38 2014
Quant Method : C:\msdchem\1\METHODS\SS14K11N.M
Quant Title : 8270 BNA
QLast Update : Tue Nov 11 17:02:34 2014
Response via : Initial Calibration
DataAcq Meth:SIMMN.M



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\111114A\
Data File : 1111A 08.D
Acq On : 11 Nov 2014 3:00 pm
Operator : 280
Sample : STD SIMLVI 10 PPB 14I18662
Misc : SIM/PAH STD
ALS Vial : 44 Sample Multiplier: 1
InstName : BNAMS14

Quant Time: Nov 11 17:03:02 2014
Quant Method : C:\msdchem\1\METHODS\SS14K11N.M
Quant Title : 8270 BNA
QLast Update : Tue Nov 11 17:02:59 2014
Response via : Initial Calibration
DataAcq Meth:SIMMN.M

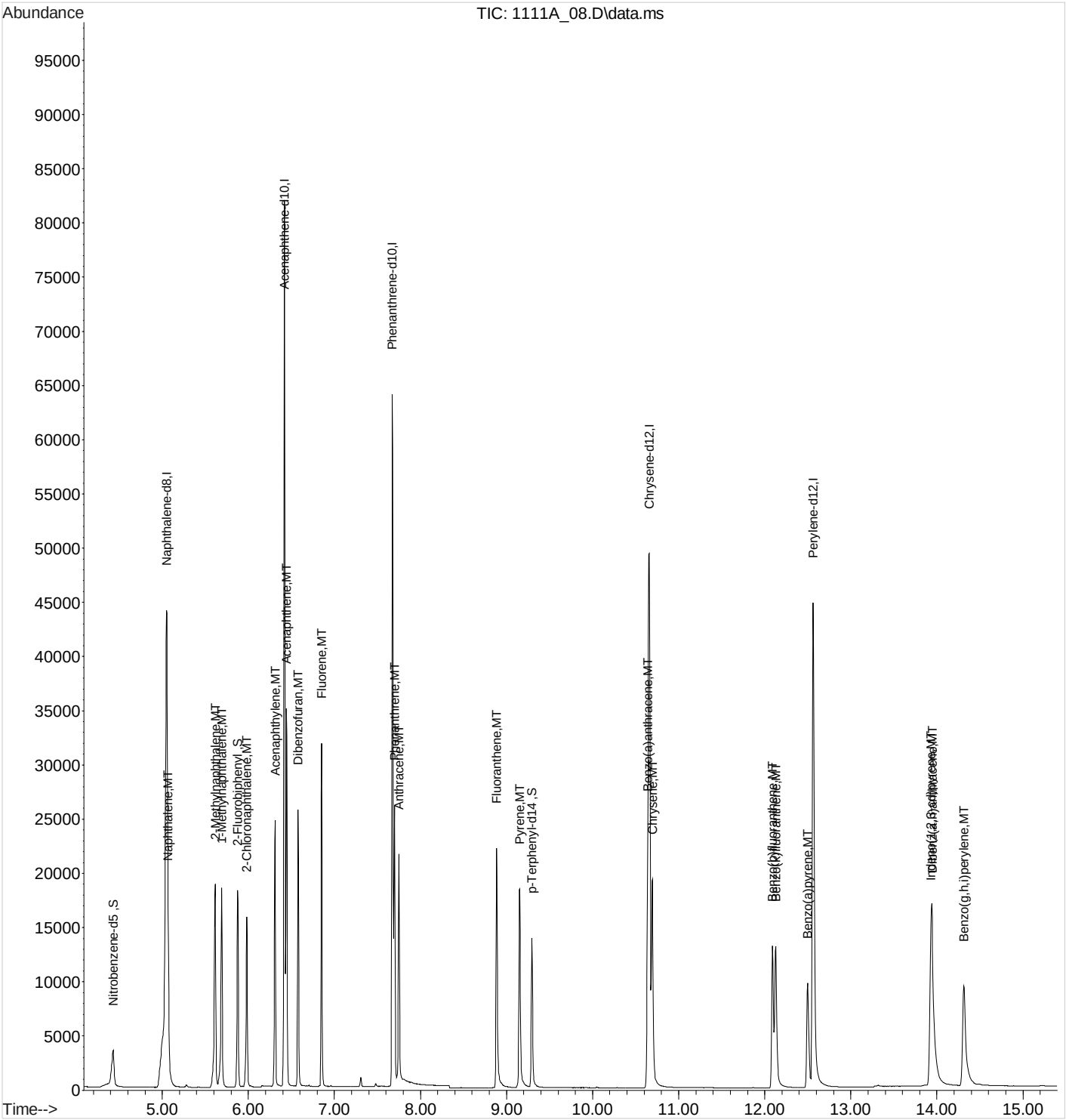
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Naphthalene-d8	5.049	136	68287	40.0000000	ppb	0.00
6) Acenaphthene-d10	6.421	164	37200	40.0000000	ppb	0.00
13) Phenanthrene-d10	7.673	188	56499	40.0000000	ppb	0.00
17) Chrysene-d12	10.659	240	55853	40.0000000	ppb	0.00
22) Perylene-d12	12.562	264	59754	40.0000000	ppb	0.00
System Monitoring Compounds						
2) Nitrobenzene-d5	4.430	82	5780	11.1063041	ppb	0.00
Spiked Amount 2.000	Range 45 - 170		Recovery = 555.32%#			
7) 2-Fluorobiphenyl	5.876	172	12880	9.6934199	ppb	0.00
Spiked Amount 2.000	Range 58 - 153		Recovery = 484.67%#			
19) p-Terphenyl-d14	9.295	244	13204	9.6059152	ppb	0.00
Spiked Amount 2.000	Range 53 - 156		Recovery = 480.30%#			
Target Compounds						Qvalue
3) Naphthalene	5.068	128	19258	9.0984275	ppb	100
4) 2-Methylnaphthalene	5.614	142	12183	9.7988946	ppb	99
5) 1-Methylnaphthalene	5.692	142	11445	9.8422240	ppb	100
8) 2-Chloronaphthalene	5.981	162	12000	9.6970129	ppb	99
9) Acenaphthylene	6.312	152	16686	9.6807120	ppb	99
10) Acenaphthene	6.443	153	12220	9.6660003	ppb	99
11) Dibenzofuran	6.579	168	15666	9.7104837	ppb	98
12) Fluorene	6.852	166	12938	9.6072970	ppb	100
14) Phenanthrene	7.697	178	17360	9.5329279	ppb	100
15) Anthracene	7.748	178	16307	9.9680788	ppb	100
16) Fluoranthene	8.885	202	17993	9.6034946	ppb	100
18) Pyrene	9.154	202	16551	9.6362331	ppb	100
20) Benzo(a)anthracene	10.640	228	16048	9.3916167	ppb	100
21) Chrysene	10.695	228	17513	9.7575283	ppb	98
23) Benzo(b)fluoranthene	12.089	252	14482	9.2961862	ppb	99
24) Benzo(k)fluoranthene	12.127	252	18586	10.1433005	ppb	96
25) Benzo(a)pyrene	12.498	252	14295	10.3189070	ppb	96
26) Indeno(1,2,3-cd)pyrene	13.928	276	19585	9.7316190	ppb	99
27) Dibenz(a,h)anthracene	13.945	278	16440	9.8061233	ppb	98
28) Benzo(g,h,i)perylene	14.314	276	16576	9.6840217	ppb	100

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\111114A\
Data File : 1111A 08.D
Acq On : 11 Nov 2014 3:00 pm
Operator : 280
Sample : STD SIMLVI 10 PPB 14I18662
Misc : SIM/PAH STD
ALS Vial : 44 Sample Multiplier: 1
InstName : BNAMS14

Quant Time: Nov 11 17:03:02 2014
Quant Method : C:\msdchem\1\METHODS\SS14K11N.M
Quant Title : 8270 BNA
QLast Update : Tue Nov 11 17:02:59 2014
Response via : Initial Calibration
DataAcq Meth:SIMMN.M



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\111114A\
Data File : 1111A 09.D
Acq On : 11 Nov 2014 3:21 pm
Operator : 280
Sample : STD SIMLVI 20 PPB 14I18662
Misc : SIM/PAH STD
ALS Vial : 45 Sample Multiplier: 1
InstName : BNAMS14

Quant Time: Nov 11 17:03:29 2014
Quant Method : C:\msdchem\1\METHODS\SS14K11N.M
Quant Title : 8270 BNA
QLast Update : Tue Nov 11 17:03:23 2014
Response via : Initial Calibration
DataAcq Meth:SIMMN.M

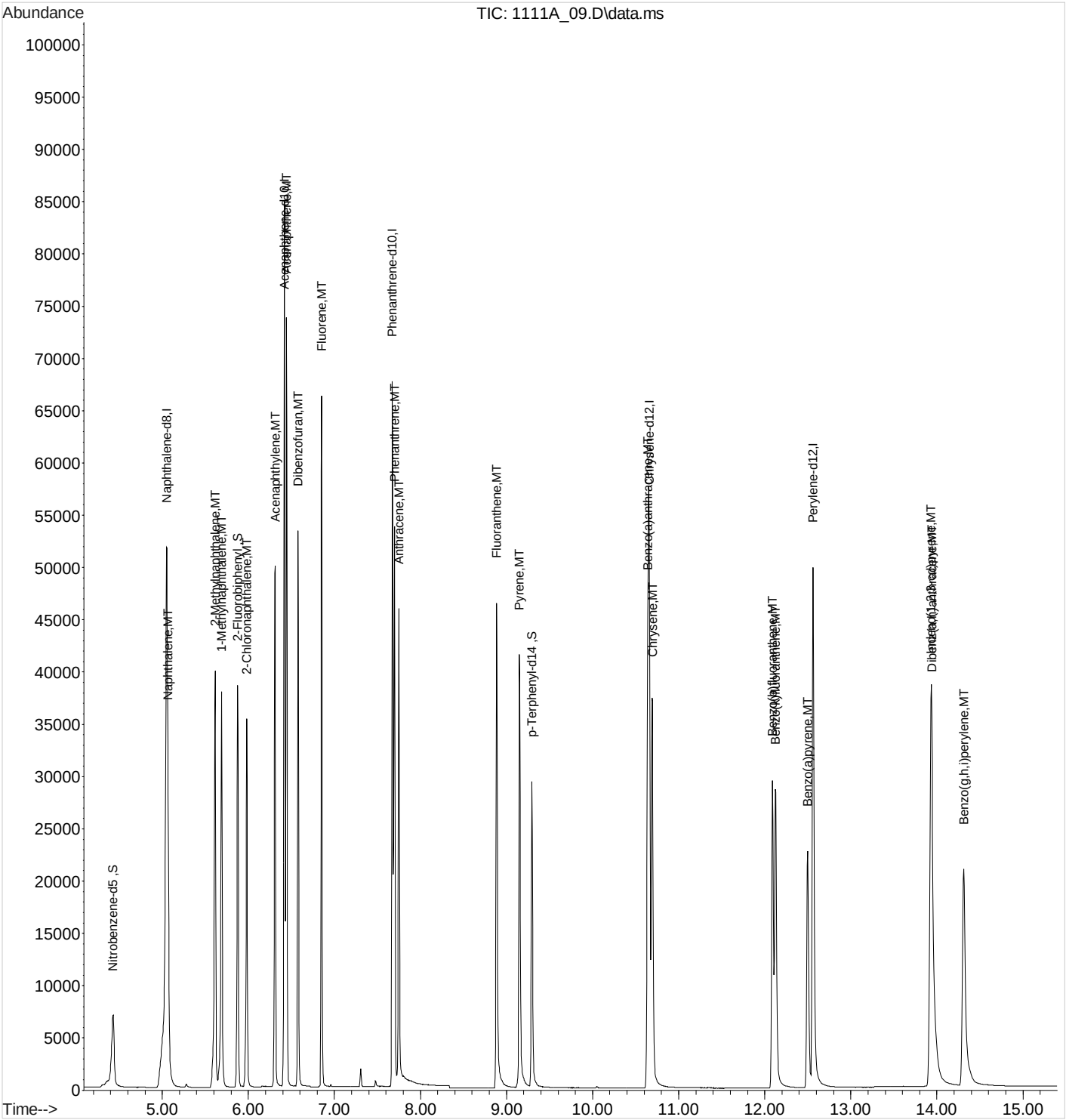
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Naphthalene-d8	5.049	136	67987	40.0000000	ppb	0.00
6) Acenaphthene-d10	6.417	164	36817	40.0000000	ppb	0.00
13) Phenanthrene-d10	7.673	188	56460	40.0000000	ppb	0.00
17) Chrysene-d12	10.659	240	56450	40.0000000	ppb	0.00
22) Perylene-d12	12.562	264	60411	40.0000000	ppb	0.00
System Monitoring Compounds						
2) Nitrobenzene-d5	4.426	82	11815	22.1890732	ppb	0.00
Spiked Amount 2.000	Range 45 - 170		Recovery = 1109.45%#			
7) 2-Fluorobiphenyl	5.876	172	26965	20.6632011	ppb	0.00
Spiked Amount 2.000	Range 58 - 153		Recovery = 1033.16%#			
19) p-Terphenyl-d14	9.295	244	27557	20.0330772	ppb	0.00
Spiked Amount 2.000	Range 53 - 156		Recovery = 1001.65%#			
Target Compounds						Qvalue
3) Naphthalene	5.064	128	39347	19.1020351	ppb	100
4) 2-Methylnaphthalene	5.614	142	25373	20.6013556	ppb	99
5) 1-Methylnaphthalene	5.692	142	23829	20.6638784	ppb	98
8) 2-Chloronaphthalene	5.981	162	25016	20.5812288	ppb	98
9) Acenaphthylene	6.312	152	35231	20.8187720	ppb	99
10) Acenaphthene	6.443	153	25200	20.3101094	ppb	100
11) Dibenzofuran	6.579	168	32212	20.3212205	ppb	97
12) Fluorene	6.852	166	27066	20.5086690	ppb	98
14) Phenanthrene	7.697	178	36463	20.2735537	ppb	99
15) Anthracene	7.748	178	34484	21.1106514	ppb	99
16) Fluoranthene	8.885	202	37655	20.3130313	ppb	99
18) Pyrene	9.150	202	34393	19.9941661	ppb	99
20) Benzo(a)anthracene	10.640	228	34187	20.1010702	ppb	99
21) Chrysene	10.695	228	36419	20.1990276	ppb	98
23) Benzo(b)fluoranthene	12.089	252	31933	20.6384243	ppb	99
24) Benzo(k)fluoranthene	12.121	252	38136	20.5128673	ppb	99
25) Benzo(a)pyrene	12.498	252	30354	21.5014459	ppb	96
26) Indeno(1,2,3-cd)pyrene	13.928	276	41680	20.6235735	ppb	100
27) Dibenz(a,h)anthracene	13.939	278	34925	20.7058477	ppb	99
28) Benzo(g,h,i)perylene	14.314	276	35015	20.3950803	ppb	99

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\111114A\
Data File : 1111A 09.D
Acq On : 11 Nov 2014 3:21 pm
Operator : 280
Sample : STD SIMLVI 20 PPB 14I18662
Misc : SIM/PAH STD
ALS Vial : 45 Sample Multiplier: 1
InstName : BNAMS14

Quant Time: Nov 11 17:03:29 2014
Quant Method : C:\msdchem\1\METHODS\SS14K11N.M
Quant Title : 8270 BNA
QLast Update : Tue Nov 11 17:03:23 2014
Response via : Initial Calibration
DataAcq Meth:SIMMN.M



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\111114A\
Data File : 1111A 10.D
Acq On : 11 Nov 2014 3:41 pm
Operator : 280
Sample : STD SIMLVI 80 PPB 14I18662
Misc : SIM/PAH STD
ALS Vial : 46 Sample Multiplier: 1
InstName : BNAMS14

Quant Time: Nov 11 17:03:55 2014
Quant Method : C:\msdchem\1\METHODS\SS14K11N.M
Quant Title : 8270 BNA
QLast Update : Tue Nov 11 17:03:51 2014
Response via : Initial Calibration
DataAcq Meth:SIMMN.M

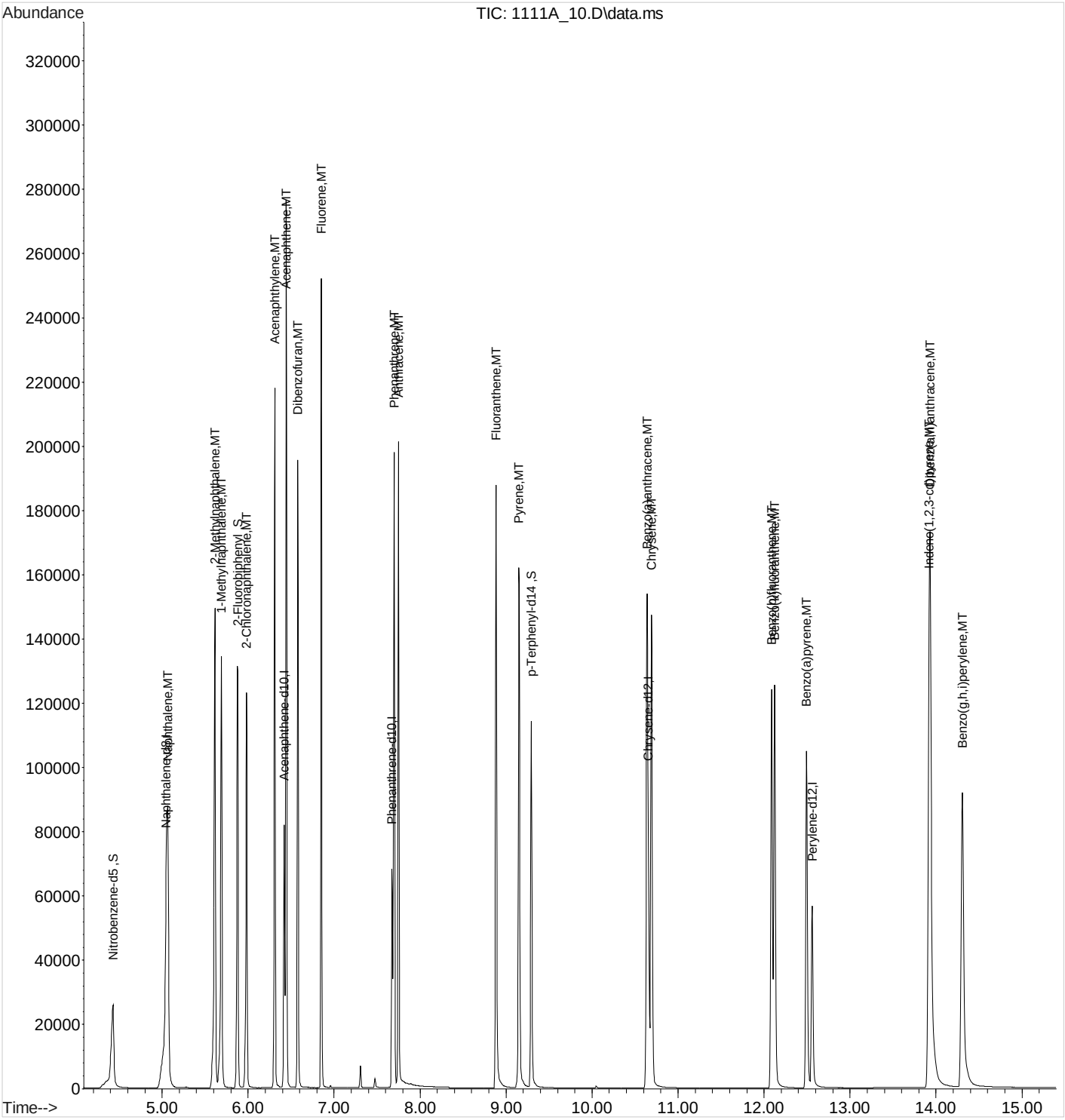
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Naphthalene-d8	5.045	136	67307	40.0000000	ppb	0.00
6) Acenaphthene-d10	6.417	164	36174	40.0000000	ppb	0.00
13) Phenanthrene-d10	7.673	188	56947	40.0000000	ppb	0.00
17) Chrysene-d12	10.654	240	57326	40.0000000	ppb	0.00
22) Perylene-d12	12.562	264	61641	40.0000000	ppb	0.00
System Monitoring Compounds						
2) Nitrobenzene-d5	4.430	82	44750	83.0729553	ppb	0.00
Spiked Amount 2.000	Range 45 - 170		Recovery = 4153.65%#			
7) 2-Fluorobiphenyl	5.880	172	96128	74.4780350	ppb	0.00
Spiked Amount 2.000	Range 58 - 153		Recovery = 3723.90%#			
19) p-Terphenyl-d14	9.292	244	102178	73.1209465	ppb	0.00
Spiked Amount 2.000	Range 53 - 156		Recovery = 3656.05%#			
Target Compounds						Qvalue
3) Naphthalene	5.064	128	140217	69.3827893	ppb	100
4) 2-Methylnaphthalene	5.614	142	91725	74.7779424	ppb	100
5) 1-Methylnaphthalene	5.692	142	85314	74.2366406	ppb	98
8) 2-Chloronaphthalene	5.981	162	90148	75.0489212	ppb	98
9) Acenaphthylene	6.312	152	133237	79.4813884	ppb	99
10) Acenaphthene	6.443	153	91425	74.7625060	ppb	99
11) Dibenzofuran	6.579	168	116468	74.5414389	ppb	100
12) Fluorene	6.852	166	98964	75.9344725	ppb	99
14) Phenanthrene	7.697	178	134480	73.9296759	ppb	100
15) Anthracene	7.748	178	132745	79.6847628	ppb	100
16) Fluoranthene	8.882	202	141718	75.5596208	ppb	98
18) Pyrene	9.150	202	129664	74.2318517	ppb	98
20) Benzo(a)anthracene	10.640	228	132008	76.3540408	ppb	100
21) Chrysene	10.690	228	131489	71.6705386	ppb	99
23) Benzo(b)fluoranthene	12.089	252	131052	82.4827230	ppb	99
24) Benzo(k)fluoranthene	12.121	252	133452	69.9908077	ppb	98
25) Benzo(a)pyrene	12.492	252	116681	79.8042461	ppb	98
26) Indeno(1,2,3-cd)pyrene	13.918	276	159256	76.7500426	ppb	99
27) Dibenz(a,h)anthracene	13.928	278	133154	76.8249839	ppb	95
28) Benzo(g,h,i)perylene	14.308	276	132388	75.2755309	ppb	99

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\111114A\
Data File : 1111A 10.D
Acq On : 11 Nov 2014 3:41 pm
Operator : 280
Sample : STD SIMLVI 80 PPB 14I18662
Misc : SIM/PAH STD
ALS Vial : 46 Sample Multiplier: 1
InstName : BNAMS14

Quant Time: Nov 11 17:03:55 2014
Quant Method : C:\msdchem\1\METHODS\SS14K11N.M
Quant Title : 8270 BNA
QLast Update : Tue Nov 11 17:03:51 2014
Response via : Initial Calibration
DataAcq Meth:SIMMN.M



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\111114A\
Data File : 1111A 11.D
Acq On : 11 Nov 2014 4:02 pm
Operator : 280
Sample : STD SIMLVI 200 PPB 14I18662
Misc : SIM/PAH STD
ALS Vial : 47 Sample Multiplier: 1
InstName : BNAMS14

Quant Time: Nov 11 17:04:21 2014
Quant Method : C:\msdchem\1\METHODS\SS14K11N.M
Quant Title : 8270 BNA
QLast Update : Tue Nov 11 17:04:15 2014
Response via : Initial Calibration
DataAcq Meth:SIMMN.M

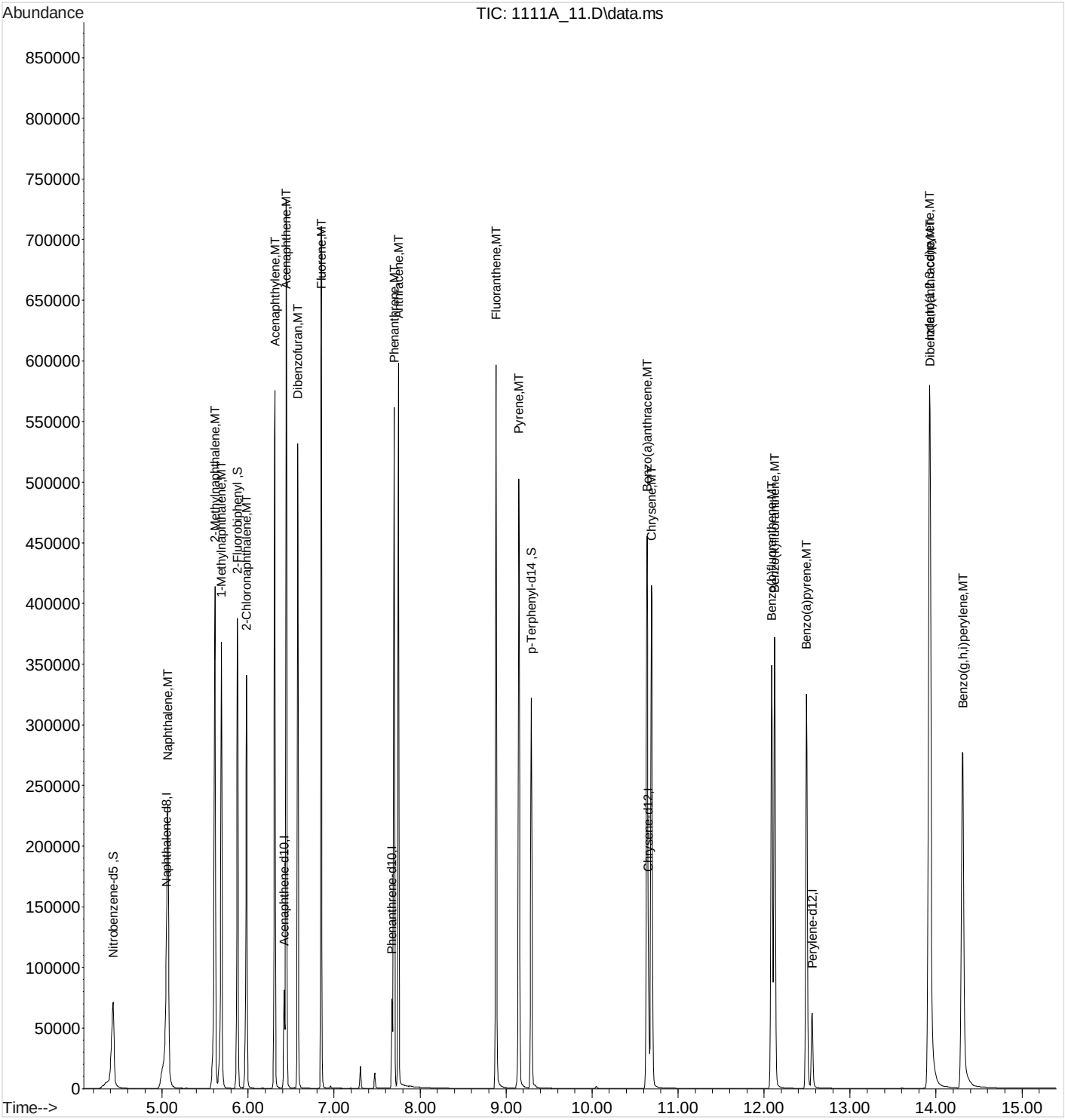
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Naphthalene-d8	5.049	136	69149	40.0000000	ppb	0.00
6) Acenaphthene-d10	6.417	164	37197	40.0000000	ppb	0.00
13) Phenanthrene-d10	7.673	188	60067	40.0000000	ppb	0.00
17) Chrysene-d12	10.654	240	60810	40.0000000	ppb	0.00
22) Perylene-d12	12.562	264	65086	40.0000000	ppb	0.00
System Monitoring Compounds						
2) Nitrobenzene-d5	4.430	82	121550	218.2350121	ppb	0.00
Spiked Amount 2.000	Range 45 - 170		Recovery = 10911.75%#			
7) 2-Fluorobiphenyl	5.876	172	259995	198.1787314	ppb	0.00
Spiked Amount 2.000	Range 58 - 153		Recovery = 9908.94%#			
19) p-Terphenyl-d14	9.292	244	287664	196.8863551	ppb	0.00
Spiked Amount 2.000	Range 53 - 156		Recovery = 9844.32%#			
Target Compounds						Qvalue
3) Naphthalene	5.064	128	372712	183.5747163	ppb	99
4) 2-Methylnaphthalene	5.614	142	248611	199.4486790	ppb	99
5) 1-Methylnaphthalene	5.692	142	229220	196.5038103	ppb	99
8) 2-Chloronaphthalene	5.981	162	243698	199.3571625	ppb	99
9) Acenaphthylene	6.311	152	372860	216.5431735	ppb	99
10) Acenaphthene	6.443	153	248855	200.0869183	ppb	99
11) Dibenzofuran	6.579	168	314244	197.8398903	ppb	98
12) Fluorene	6.852	166	272788	205.2908987	ppb	97
14) Phenanthrene	7.697	178	375454	198.1892431	ppb	100
15) Anthracene	7.748	178	376525	214.4228934	ppb	99
16) Fluoranthene	8.881	202	403657	205.9436552	ppb	99
18) Pyrene	9.150	202	366875	200.4085063	ppb	99
20) Benzo(a)anthracene	10.640	228	375692	206.4199846	ppb	100
21) Chrysene	10.690	228	358729	187.5844591	ppb	99
23) Benzo(b)fluoranthene	12.089	252	370094	219.4688791	ppb	99
24) Benzo(k)fluoranthene	12.121	252	364034	184.6680799	ppb	99
25) Benzo(a)pyrene	12.492	252	332878	215.7099580	ppb	99
26) Indeno(1,2,3-cd)pyrene	13.923	276	451410	207.4371744	ppb	98
27) Dibenz(a,h)anthracene	13.928	278	374752	206.1372834	ppb	97
28) Benzo(g,h,i)perylene	14.313	276	368170	200.2310749	ppb	98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\111114A\
Data File : 1111A 11.D
Acq On : 11 Nov 2014 4:02 pm
Operator : 280
Sample : STD SIMLVI 200 PPB 14I18662
Misc : SIM/PAH STD
ALS Vial : 47 Sample Multiplier: 1
InstName : BNAMS14

Quant Time: Nov 11 17:04:21 2014
Quant Method : C:\msdchem\1\METHODS\SS14K11N.M
Quant Title : 8270 BNA
QLast Update : Tue Nov 11 17:04:15 2014
Response via : Initial Calibration
DataAcq Meth:SIMMN.M



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\111114A\
Data File : 1111A 12.D
Acq On : 11 Nov 2014 4:23 pm
Operator : 280
Sample : STD SIMLVI 1000 PPB 14I18662
Misc : SIM/PAH STD
ALS Vial : 48 Sample Multiplier: 1
InstName : BNAMS14

Quant Time: Nov 11 17:04:49 2014
Quant Method : C:\msdchem\1\METHODS\SS14K11N.M
Quant Title : 8270 BNA
QLast Update : Tue Nov 11 17:04:42 2014
Response via : Initial Calibration
DataAcq Meth:SIMMN.M

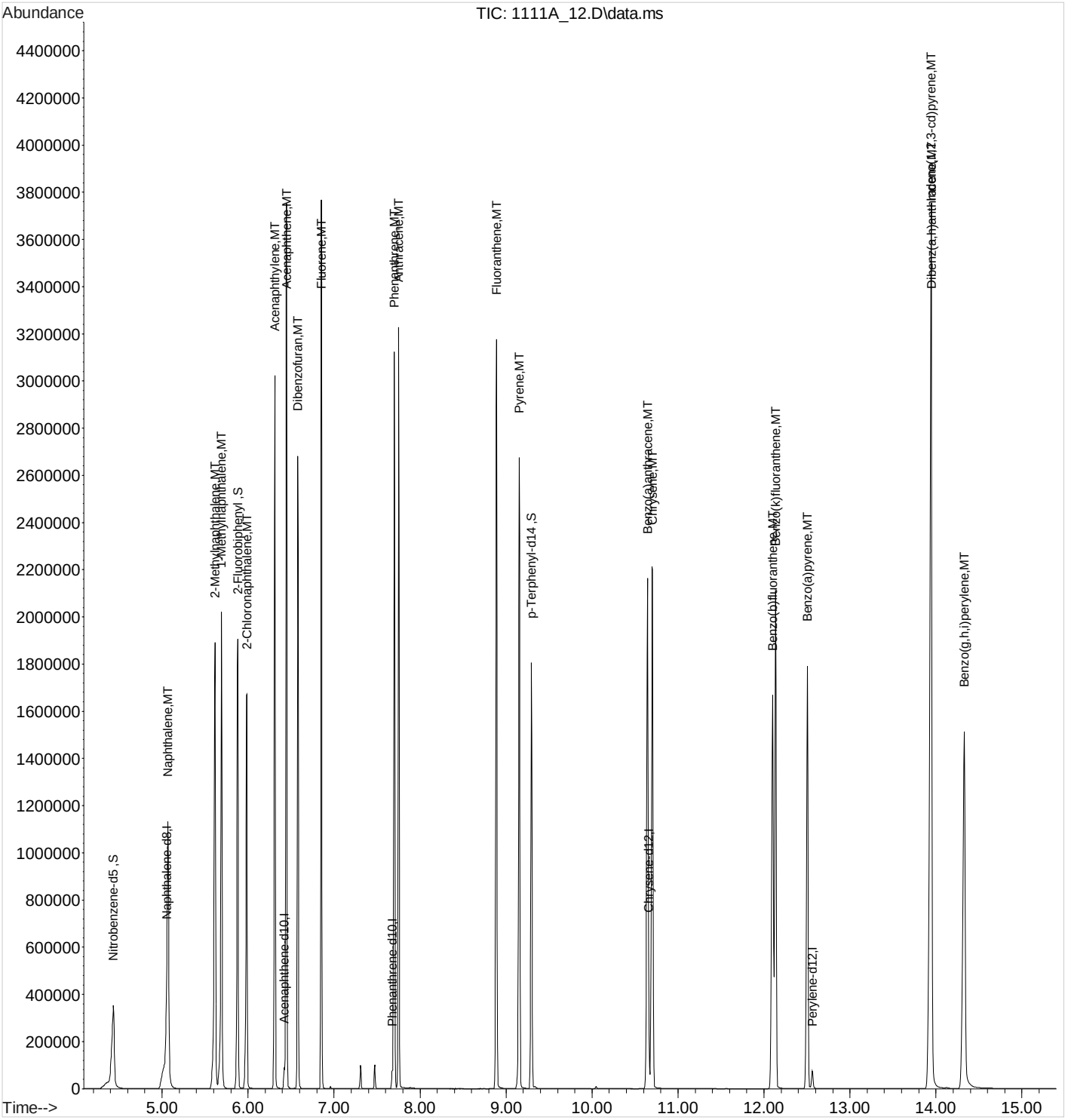
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Naphthalene-d8	5.053	136	73157	40.0000000	ppb	0.00
6) Acenaphthene-d10	6.421	164	38145	40.0000000	ppb	0.00
13) Phenanthrene-d10	7.677	188	64027	40.0000000	ppb	0.00
17) Chrysene-d12	10.659	240	65864	40.0000000	ppb	0.00
22) Perylene-d12	12.562	264	69379	40.0000000	ppb	0.00
System Monitoring Compounds						
2) Nitrobenzene-d5	4.434	82	580955	973.2441612	ppb	0.00
Spiked Amount 2.000	Range 45 - 170		Recovery = 48662.21%#			
7) 2-Fluorobiphenyl	5.880	172	1281779	953.9834481	ppb	0.00
Spiked Amount 2.000	Range 58 - 153		Recovery = 47699.17%#			
19) p-Terphenyl-d14	9.296	244	1486612	941.5027648	ppb	0.00
Spiked Amount 2.000	Range 53 - 156		Recovery = 47075.14%#			
Target Compounds						Qvalue
3) Naphthalene	5.068	128	1769709	833.6750117	ppb	100
4) 2-Methylnaphthalene	5.614	142	1206920	915.5675320	ppb	100
5) 1-Methylnaphthalene	5.692	142	1126603	915.1774237	ppb	98
8) 2-Chloronaphthalene	5.985	162	1190401	950.0422462	ppb	93
9) Acenaphthylene	6.312	152	1900832	1063.9248486	ppb	100
10) Acenaphthene	6.447	153	1236399	969.3359123	ppb	95
11) Dibenzofuran	6.579	168	1546187	950.7137764	ppb	88
12) Fluorene	6.852	166	1413191	1033.1833403	ppb	99
14) Phenanthrene	7.701	178	1920119	952.1083115	ppb	99
15) Anthracene	7.752	178	1966948	1040.1399105	ppb	99
16) Fluoranthene	8.889	202	2063034	983.2755088	ppb	99
18) Pyrene	9.154	202	1852354	933.9469684	ppb	98
20) Benzo(a)anthracene	10.645	228	1930515	974.8389703	ppb	99
21) Chrysene	10.704	228	1812414	882.8426106	ppb	97
23) Benzo(b)fluoranthene	12.100	252	1949597	1069.7134476	ppb	99
24) Benzo(k)fluoranthene	12.132	252	1823770	877.5297613	ppb	98
25) Benzo(a)pyrene	12.503	252	1712816	1029.6961926	ppb	99
26) Indeno(1,2,3-cd)pyrene	13.939	276	2422392	1038.7676114	ppb	93
27) Dibenz(a,h)anthracene	13.945	278	2080018	1068.6599666	ppb	98
28) Benzo(g,h,i)perylene	14.330	276	1833759	935.4341265	ppb	100

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\111114A\
Data File : 1111A 12.D
Acq On : 11 Nov 2014 4:23 pm
Operator : 280
Sample : STD SIMLVI 1000 PPB 14I18662
Misc : SIM/PAH STD
ALS Vial : 48 Sample Multiplier: 1
InstName : BNAMS14

Quant Time: Nov 11 17:04:49 2014
Quant Method : C:\msdchem\1\METHODS\SS14K11N.M
Quant Title : 8270 BNA
QLast Update : Tue Nov 11 17:04:42 2014
Response via : Initial Calibration
DataAcq Meth:SIMMN.M



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\111114A\
Data File : 1111A 13.D
Acq On : 11 Nov 2014 4:43 pm
Operator : 280
Sample : STD SIMLVI 2000 PPB 14I18662
Misc : SIM/PAH STD
ALS Vial : 49 Sample Multiplier: 1
InstName : BNAMS14

Quant Time: Nov 11 17:05:17 2014
Quant Method : C:\msdchem\1\METHODS\SS14K11N.M
Quant Title : 8270 BNA
QLast Update : Tue Nov 11 17:05:10 2014
Response via : Initial Calibration
DataAcq Meth:SIMMN.M

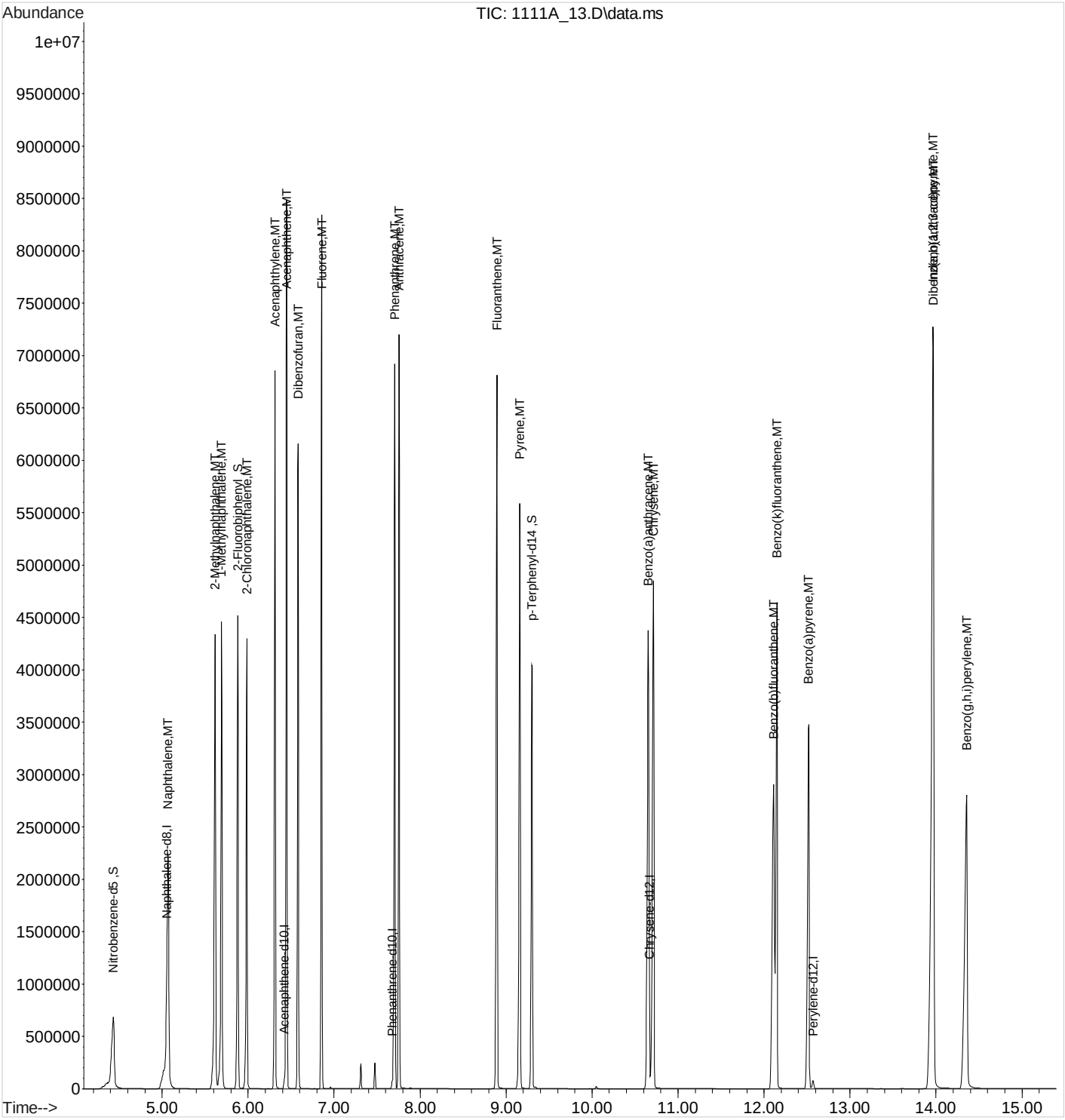
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Naphthalene-d8	5.053	136	73783	40.0000000	ppb	0.00
6) Acenaphthene-d10	6.421	164	38726	40.0000000	ppb	0.00
13) Phenanthrene-d10	7.677	188	63635	40.0000000	ppb	0.00
17) Chrysene-d12	10.668	240	68012	40.0000000	ppb	0.00
22) Perylene-d12	12.573	264	70257	40.0000000	ppb	0.01
System Monitoring Compounds						
2) Nitrobenzene-d5	4.434	82	1187702	1979.4352620	ppb	0.00
Spiked Amount 2.000	Range 45 - 170		Recovery = 98971.76%#			
7) 2-Fluorobiphenyl	5.880	172	2865565	2112.8965493	ppb	0.00
Spiked Amount 2.000	Range 58 - 153		Recovery = 105644.83%#			
19) p-Terphenyl-d14	9.299	244	3433553	2121.3756175	ppb	0.00
Spiked Amount 2.000	Range 53 - 156		Recovery = 106068.78%#			
Target Compounds						Qvalue
3) Naphthalene	5.068	128	3697642	1763.7775102	ppb	100
4) 2-Methylnaphthalene	5.614	142	2643556	2009.5921271	ppb	98
5) 1-Methylnaphthalene	5.692	142	2447246	1992.2366850	ppb	99
8) 2-Chloronaphthalene	5.985	162	2628450	2079.2412541	ppb	99
9) Acenaphthylene	6.315	152	4208317	2301.7288303	ppb	98
10) Acenaphthene	6.447	153	2738948	2123.2555941	ppb	97
11) Dibenzofuran	6.583	168	3484533	2123.4947778	ppb	90
12) Fluorene	6.856	166	3198832	2294.0625217	ppb	95
14) Phenanthrene	7.705	178	4278038	2147.2254914	ppb	97
15) Anthracene	7.756	178	4445691	2353.5945041	ppb	98
16) Fluoranthene	8.893	202	4605498	2213.2038095	ppb	98
18) Pyrene	9.161	202	4082875	2010.1458197	ppb	99
20) Benzo(a)anthracene	10.654	228	4179889	2050.4777997	ppb	97
21) Chrysene	10.713	228	3937237	1884.8948314	ppb	99
23) Benzo(b)fluoranthene	12.111	252	4295775	2307.4613850	ppb	99
24) Benzo(k)fluoranthene	12.148	252	4089309	1973.2407885	ppb	98
25) Benzo(a)pyrene	12.514	252	3792308	2243.0104945	ppb	99
26) Indeno(1,2,3-cd)pyrene	13.966	276	5289653	2229.1541778	ppb	92
27) Dibenz(a,h)anthracene	13.972	278	4762027	2395.4731565	ppb	93
28) Benzo(g,h,i)perylene	14.357	276	3799777	1929.6866474	ppb	98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\111114A\
Data File : 1111A 13.D
Acq On : 11 Nov 2014 4:43 pm
Operator : 280
Sample : STD SIMLVI 2000 PPB 14I18662
Misc : SIM/PAH STD
ALS Vial : 49 Sample Multiplier: 1
InstName : BNAMS14

Quant Time: Nov 11 17:05:17 2014
Quant Method : C:\msdchem\1\METHODS\SS14K11N.M
Quant Title : 8270 BNA
QLast Update : Tue Nov 11 17:05:10 2014
Response via : Initial Calibration
DataAcq Meth:SIMMN.M



CHAIN-OF-CUSTODY RECORD

URS
8181 East Tufts Avenue
Denver, CO 80237
Phone: (303) 694-2770
Fax: (303) 694-3946

LAB: ESC

Page 1 of 4

PROJECT NAME	PROJECT NUMBER
Holloman AFB	23446543.0057AA
Project Manager: Sheri Fling	**Sample Manager:** Jon Mallonee
Project Mgr Phone: (303) 332-5297	**Sample Mgr Office Phone:** (301) 512-3395

COOLER #1

Sample ID	Date	Time	Matrix	Total Containers	GRO	DRO/ORO	VOCs 8260B	PAHs by SIM	SVOCs	Tot Met/6010B/6020B/7470A	Dis Met/6010B/6020B/7470A	TDS	Remarks
					TESTS								
					CONTAINER TYPE AND PRESERVATIVE								
					2 X 40ml V Amb	3 X 40ml V Amb	2 X 40ml V Amb	1 X 100ml G Amb	1 X 100ml G Amb	1 X 500ml P	1 X 500ml P	1 X 250ml P	
H-TU508-Tripblank-TT01	11/20/14	1450	WQ	4	X		X						L735181-01

RELINQUISHED BY	RECEIVED BY	RELINQUISHED BY	RECEIVED BY
Signature	Signature	Signature	Signature
Printed Name Jon MALLONEE	Printed Name	Printed Name	Printed Name 11/21/14
Firm URS	Firm	Firm 6200 8043 4141	Firm 09:00
Date/Time 11/20/14 1435	Date/Time	Date/Time	Date/Time 37 containers

Special Instructions:
1. All soil samples require percent moisture.
2. The circled analyses represent those analyses for which bottles are contained in this cooler.
3. The total number of containers represents all containers for a given sample ID regardless of the cooler in which they are contained.
4. Level IV package required.
5. VOCs/SVOCs/PAHs analyte lists are included in the site-specific QAPPs
6. Metals analyte list:
   6010- Aluminum, Barium, Beryllium, Copper, Manganese, Vanadium, Zinc;
   6020A - Antimony, Arsenic, Cadmium, Chromium, Cobalt, Lead, Nickel, Selenium, Silver, Thallium;
   7470A - Mercury
7. Dissolved metals are field filtered

Container Key: P = Plastic A = Amber V = Vial G = Glass

3.8i

42

CHAIN-OF-CUSTODY RECORD

URS
8181 East Tufts Avenue
Denver, CO 80237
Phone: (303) 694-2770
Fax: (303) 694-3946

LAB: ESC

PROJECT NAME	PROJECT NUMBER
Holloman AFB	23446543.0057AA
Project Manager: Sheri Fling	**Sample Manager:** Jon Mallonee
Project Mgr Phone: (303) 332-5297	**Sample Mgr Office Phone:** (301) 512-3395

TESTS

CONTAINER TYPE AND PRESERVATIVE

COOLER #1

Sample ID	Date	Time	Matrix	Total Containers	GRO	DRO/ORO	VOCs 8260B	PAHs by SIM	SVOCs	Tot Met/6010B/6020B/7470A	Dis Met/6010B/6020B/7470A	TDS	Remarks
					2 X 40ml V Amb	3 X 40ml V Amb	2 X 40ml V Amb	1 X 100ml G Amb	1 X 100ml G Amb	1 X 500ml P	1 X 500ml P	1 X 250ml P	
H-TU508-MW06-NT01	11/19/14	1127	GW	10	X	X	X	X	X	X			1735181-02
H-TU508-MW06-ND01	11/19/14	1127	GW	1							X		-03

RELINQUISHED BY	RECEIVED BY	RELINQUISHED BY	RECEIVED BY
Signature	Signature	Signature	Signature
Printed Name: Jon Mallonee	Printed Name	Printed Name	Printed Name 11/21/14
Firm: URS	Firm	Firm	Firm 0830
Date/Time: 11/20/14 1435	Date/Time	Date/Time	Date/Time 37 containers

Special Instructions:
1. All soil samples require percent moisture.
2. The circled analyses represent those analyses for which bottles are contained in this cooler.
3. The total number of containers represents all containers for a given sample ID regardless of the cooler in which they are contained.
4. Level IV package required.
5. VOCs/SVOCs/PAHs analyte lists are included in the site-specific QAPPs
6. Metals analyte list:
   6010- Aluminum, Barium, Beryllium, Copper, Manganese, Vanadium, Zinc;
   6020A - Antimony, Arsenic, Cadmium, Chromium, Cobalt, Lead, Nickel, Selenium, Silver, Thallium;
   7470A - Mercury
7. Dissolved metals are field filtered

Container Key: P = Plastic A = Amber V = Vial G = Glass

3.8°C

CHAIN-OF-CUSTODY RECORD

URS
8181 East Tufts Avenue
Denver, CO 80237
Phone: (303) 694-2770
Fax: (303) 694-3946

LAB: ESC

Page 3 of 4

COOLER #1

PROJECT NAME	PROJECT NUMBER
Holloman AFB	23446543.0057AA
Project Manager: Sheri Fling	**Sample Manager:** Jon Mallonee
Project Mgr Phone: (303) 332-5297	**Sample Mgr Office Phone:** (301) 512-3395

TESTS

CONTAINER TYPE AND PRESERVATIVE

Sample ID	Date	Time	Matrix	Total Containers	GRO (2 X 40ml V Amb)	DRO/ORO (3 X 40ml V Amb)	VOCs 8260B (2 X 40ml V Amb)	PAHs by SIM (1 X 100ml G Amb)	SVOCs (1 X 100ml G Amb)	Tot Met/6010B/6020B/7470A (1 X 500ml P)	Dis Met/6010B/6020B/7470A (1 X 500ml P)	TDS (1 X 250ml P)	Remarks
H-TU508-MW05-ND01	11/19/14	1000	GW	1							X		L735181-04
H-TU508-MW05-NT01	11/19/14	1000	GW	10	X	X	X	X	X	X			05

RELINQUISHED BY	RECEIVED BY	RELINQUISHED BY	RECEIVED BY
Signature	Signature	Signature	Signature
Printed Name: Jon Mallonee	Printed Name	Printed Name	Printed Name: 11/21/14
Firm: URS	Firm	Firm	Firm: 09:00
Date/Time: 11/20/14 1435	Date/Time	Date/Time	Date/Time: 37 containers

Special Instructions:
1. All soil samples require percent moisture.
2. The circled analyses represent those analyses for which bottles are contained in this cooler.
3. The total number of containers represents all containers for a given sample ID regardless of the cooler in which they are contained.
4. Level IV package required.
5. VOCs/SVOCs/PAHs analyte lists are included in the site-specific QAPPs
6. Metals analyte list:
   6010- Aluminum, Barium, Beryllium, Copper, Manganese, Vanadium, Zinc;
   6020A - Antimony, Arsenic, Cadmium, Chromium, Cobalt, Lead, Nickel, Selenium, Silver, Thallium;
   7470A - Mercury
7. Dissolved metals are field filtered

Container Key: P = Plastic A = Amber V = Vial G = Glass

3.8°C

CHAIN-OF-CUSTODY RECORD

URS
8181 East Tufts Avenue
Denver, CO 80237
Phone: (303) 694-2770
Fax: (303) 694-3946

LAB: ESC

PROJECT NAME	PROJECT NUMBER
Holloman AFB	23446543.0057AA
Project Manager: Sheri Fling	**Sample Manager:** Jon Mallonee
Project Mgr Phone: (303) 332-5297	**Sample Mgr Office Phone:** (301) 512-3395

TESTS

CONTAINER TYPE AND PRESERVATIVE

Sample ID	Date	Time	Matrix	Total Containers	GRO	DRO/ORO	VOCs 8260B	PAHs by SIM	SVOCs	Tot Met/6010B/6020B/7470A	Dis Met/6010B/6020B/7470A	TDS	Remarks
					2 X 40ml V Amb	3 X 40ml V Amb	2 X 40ml V Amb	1 X 100ml G Amb	1 X 100ml G Amb	1 X 500ml P	1 X 500ml P	1 X 250ml P	
H-TU508-MW04-ND01	11/19/14	1100	GW	1							X		1735181-06 07
H-TU508-MW04-NT01	11/19/14	1100	GW	10	X	X	X	X	X	X			

COOLER # 1

RELINQUISHED BY	RECEIVED BY	RELINQUISHED BY	RECEIVED BY
Signature	Signature	Signature	Signature
Printed Name: Jon Mallonee	Printed Name	Printed Name	Printed Name 11/21/14
Firm: URS	Firm	Firm	Firm 09:00
Date/Time: 11/20/14 1435	Date/Time	Date/Time	Date/Time 37 containers

Special Instructions:
1. All soil samples require percent moisture.
2. The circled analyses represent those analyses for which bottles are contained in this cooler.
3. The total number of containers represents all containers for a given sample ID regardless of the cooler in which they are contained.
4. Level IV package required.
5. VOCs/SVOCs/PAHs analyte lists are included in the site-specific QAPPs
6. Metals analyte list:
   6010- Aluminum, Barium, Beryllium, Copper, Manganese, Vanadium, Zinc;
   6020A - Antimony, Arsenic, Cadmium, Chromium, Cobalt, Lead, Nickel, Selenium, Silver, Thallium;
   7470A - Mercury
7. Dissolved metals are field filtered

Container Key: P = Plastic A = Amber V = Vial G = Glass

3.8°C

JDM 11/21

CHAIN-OF-CUSTODY RECORD

URS
8181 East Tufts Avenue
Denver, CO 80237
Phone: (303) 694-2770
Fax: (303) 694-3946

LAB: ESC

Page 5 of 7

PROJECT NAME	PROJECT NUMBER
Holloman AFB	23446543.0057AA
Project Manager: Sheri Fling	**Sample Manager:** Jon Mallonee
Project Mgr Phone: (303) 332-5297	**Sample Mgr Office Phone:** (301) 512-3395

Cooler # 2

TESTS / CONTAINER TYPE AND PRESERVATIVE

Sample ID	Date	Time	Matrix	Total Containers	GRO	DRO/ORO	VOCs 8260B	PAHs by SIM	SVOCs	Tot Met/6010B/6020B/7470A	Dis Met/6010B/6020B/7470A	TDS	Remarks
					2 X 40ml V Amb	3 X 40ml V Amb	2 X 40ml V Amb	1 X 100ml G Amb	1 X 100ml G Amb	1 X 500ml P	1 X 500ml P	1 X 250ml P	
H-TU508-MW07-NT01	11/21/14	0851	GW	~~3~~ 10 JDM 11/21	X	X	X	X	X	X			L735181-08
H-TU508-MW07-ND01	11/21/14	0851	GW	1							X		-09

RELINQUISHED BY	RECEIVED BY	RELINQUISHED BY	RECEIVED BY
Signature	Signature	Signature	Signature
Printed Name Jon Mallonee	Printed Name	Printed Name	Printed Name
Firm URS	Firm	Firm	Firm
Date/Time 11/21/14 1430	Date/Time	Date/Time	Date/Time 11/22/14 0900

Special Instructions:
1. All soil samples require percent moisture.
2. The circled analyses represent those analyses for which bottles are contained in this cooler.
3. The total number of containers represents all containers for a given sample ID regardless of the cooler in which they are contained.
4. Level IV package required.
5. VOCs/SVOCs/PAHs analyte lists are included in the site-specific QAPPs
6. Metals analyte list:
   6010- Aluminum, Barium, Beryllium, Copper, Manganese, Vanadium, Zinc;
   6020A - Antimony, Arsenic, Cadmium, Chromium, Cobalt, Lead, Nickel, Selenium, Silver, Thallium;
   7470A - Mercury
7. Dissolved metals are field filtered

Container Key: P = Plastic A = Amber V = Vial G = Glass

3.4°C

JDM 11/21

CHAIN-OF-CUSTODY RECORD

PROJECT NAME	PROJECT NUMBER
Holloman AFB	23446543.0057AA
Project Manager: Sheri Fling	**Sample Manager:** Jon Mallonee
Project Mgr Phone: (303) 332-5297	**Sample Mgr Office Phone:** (301) 512-3395

URS
8181 East Tufts Avenue
Denver, CO 80237
Phone: (303) 694-2770
Fax: (303) 694-3946

LAB: ESC

TESTS

CONTAINER TYPE AND PRESERVATIVE

Sample ID	Date	Time	Matrix	Total Containers (JDM 11/21)	GRO	DRO/ORO	VOCs 8260B	PAHs by SIM	SVOCs	Tot Met 6010B/6020B/7470A	Dis Met 6010B/6020B/7470A	TDS	Remarks
					2 X 40ml V Amb	3 X 40ml V Amb	2 X 40ml V Amb	1 X 100ml G Amb	1 X 100ml G Amb	1 X 500ml P	1 X 500ml P	1 X 250ml P	
H-TU508-MW07-NT01	11/21/14	0851	GW	~~7~~ 10	X	X	X	X	X	X			Cooler # 1
~~H-TU508-MW07-ND01~~	~~11/21/14~~	~~0851~~	~~GW~~	~~1~~							X		-10 JDM 11/21

RELINQUISHED BY	RECEIVED BY	RELINQUISHED BY	RECEIVED BY
Signature	Signature	Signature	Signature
Printed Name: Jon Mallonee	Printed Name	Printed Name	Printed Name
Firm: URS	Firm	Firm	Firm: ESC
Date/Time: 11/21/14 1415	Date/Time	Date/Time	Date/Time: 11-22-14 0900

Special Instructions:
1. All soil samples require percent moisture.
2. The circled analyses represent those analyses for which bottles are contained in this cooler.
3. The total number of containers represents all containers for a given sample ID regardless of the cooler in which they are contained.
4. Level IV package required.
5. VOCs/SVOCs/PAHs analyte lists are included in the site-specific QAPPs
6. Metals analyte list:
   6010- Aluminum, Barium, Beryllium, Copper, Manganese, Vanadium, Zinc;
   6020A - Antimony, Arsenic, Cadmium, Chromium, Cobalt, Lead, Nickel, Selenium, Silver, Thallium;
   7470A - Mercury
7. Dissolved metals are field filtered

Container Key: P = Plastic A = Amber V = Vial G = Glass

66 cont

3.4°C

ESC Lab Sciences

Login Confirmation Report

November 23, 2014 - 04:33

YOUR LAB OF CHOICE

Account: URSTAZ - URS Corporation - Tucson AZ - 1088308

Login #	**L735181**	Receive Date: 11/21/2014	TSR: Pam Langford
Template #		Entered: 11/21/2014	By: Andy Vann
Report to:	Sheri Fling	Lab Project Number: URSTAZ-DOD HOLLOMAN	**Report MDL: Y**
	8181 E. Tufts Avenue	Client Project # 23446543.0057AA	**HDC: N**
	Denver, CO 80237	Project Description:	PO #
		Collected By:	PO Req: N
Phone:	(303) 740-3909 FAX:	Reg. State: AZ	Terms: 90
Email:	sheri.fling@urs.com; stan.gladych@urs.com		Quote #

Proj/Acct Comments: **PO #'s needed**
Use PO#263693 william.neese@urs.com on invoices-Picacho Site

Matrix	Test	Sample ID	Collection Date	Design ID	Method	Unit Price
L735181-01		**H-TU508-TRIPBLANK-TT01**	**11/20/2014 14:20**	**Site:**	**Est. Due Date*: 12/01/2014 - R5**	
			Sample Description: Holloman AFB			
			Sample Comments: EDD/QC4/DOD			
GW	EDD	Electronic Data Deliverable				$ 0.00
GW	GRO	TPH Low Fraction		PPBDOD	8015D/GRO	$ 24.00
GW	QC4	QC Package				$ 0.00
GW	V8260	Volatiles		PPBDOD	8260B	$ 46.00
Misc	DISPOSAL	Sample Disposal Charge				$ 0.00
Misc	ENERGY	Energy Surcharge				$ 0.00
Misc	HARDCOPY	Hardcopy Report Charge				$ 0.00
Misc	SHIPPING	Inbound Transport Charge				$ 0.00

L735181-02		H-TU508-MW06-NT01	11/19/2014 11:27 Sample Description: Holloman AFB	Site:	Est. Due Date*: 12/01/2014 - R5	
GW	8270	SVOCs		PPBDOD	8270C	$ 110.00
GW	8270PAHSIM	PAHs by SIM		PPBDOD	8270 C-SIM	$ 60.00
GW	AGG	Silver by ICPMS		PPBDOD	6020	$ 85.00
GW	ALICP	Aluminum		PPBDOD	6010B	$ 0.00
GW	ASG	Arsenic by ICPMS		PPBDOD	6020	$ 0.00
GW	BAICP	Barium		PPBDOD	6010B	$ 0.00
GW	BEICP	Beryllium		PPBDOD	6010B	$ 0.00
GW	CDG	Cadmium by ICPMS		PPBDOD	6020	$ 0.00
GW	COG	Cobalt by ICPMS		PPBDOD	6020	$ 0.00
GW	CRG	Chromium by ICPMS		PPBDOD	6020	$ 0.00
GW	CUICP	Copper		PPBDOD	6010B	$ 0.00
GW	DROOROLVI	Diesel and Oil Ranges by LVI		PPBDOD	8015	$ 28.00
GW	EDD	Electronic Data Deliverable				$ 0.00
GW	GRO	TPH Low Fraction		PPBDOD	8015D/GRO	$ 24.00
GW	HG	Mercury		PPBDOD	7470A	$ 0.00
GW	MNICP	Manganese		PPBDOD	6010B	$ 0.00
GW	NIG	Nickel by ICPMS		PPBDOD	6020	$ 0.00
GW	PBG	Lead by ICPMS		PPBDOD	6020	$ 0.00
GW	QC4	QC Package				$ 0.00
GW	SBG	Antimony by ICPMS		PPBDOD	6020	$ 0.00
GW	SEG	Selenium by ICPMS		PPBDOD	6020	$ 0.00
GW	TLG	Thallium by ICPMS		PPBDOD	6020	$ 0.00
GW	V8260	Volatiles		PPBDOD	8260B	$ 46.00
GW	VICP	Vanadium		PPBDOD	6010B	$ 0.00
GW	ZNICP	Zinc		PPBDOD	6010B	$ 0.00
Misc	MTLPREP	Metals Prep Fee per Set				$ 0.00

L735181-03		H-TU508-MW06-ND01	11/19/2014 11:27 Sample Description: Holloman AFB Sample Comments: Field Filtered. EDD/QC4/DOD	Site:	Est. Due Date*: 12/01/2014 - R5	
GW	AGDG	Silver,Dissolved by ICPMS		PPBDOD	6020	$ 85.00
GW	ALDICP	Aluminum,Dissolved		PPBDOD	6010B	$ 0.00
GW	ASDG	Arsenic,Diss. by ICPMS		PPBDOD	6020	$ 0.00
GW	BADICP	Barium,Dissolved		PPBDOD	6010B	$ 0.00
GW	BEDICP	Beryllium,Dissolved		PPBDOD	6010B	$ 0.00
GW	CDDG	Cadmium,Dissolved by ICPMS		PPBDOD	6020	$ 0.00
GW	CODG	Cobalt,Dissolved by ICPMS		PPBDOD	6020	$ 0.00
GW	CRDG	Chromium,Diss. by ICPMS		PPBDOD	6020	$ 0.00
GW	CUDICP	Copper,Dissolved		PPBDOD	6010B	$ 0.00
GW	HGD	Mercury,Dissolved		PPBDOD	7470A	$ 0.00
GW	MNDICP	Manganese,Dissolved		PPBDOD	6010B	$ 0.00
GW	NIDG	Nickel,Dissolved by ICPMS		PPBDOD	6020	$ 0.00
GW	PBDG	Lead,Dissolved by ICPMS		PPBDOD	6020	$ 0.00
GW	SBDG	Antimony,Diss. by ICPMS		PPBDOD	6020	$ 0.00
GW	SEDG	Selenium,Diss. by ICPMS		PPBDOD	6020	$ 0.00
GW	TLDG	Thallium,Diss. by ICPMS		PPBDOD	6020	$ 0.00
GW	VDICP	Vanadium,Dissolved		PPBDOD	6010B	$ 0.00
GW	ZNDICP	Zinc,Dissolved		PPBDOD	6010B	$ 0.00

L735181-04		H-TU508-MW05-ND01	11/19/2014 10:00 Sample Description: Holloman AFB Sample Comments: Field Filtered. EDD/QC4/DOD	Site:	Est. Due Date*: 12/01/2014 - R5	
GW	AGDG	Silver,Dissolved by ICPMS		PPBDOD	6020	$ 85.00
GW	ALDICP	Aluminum,Dissolved		PPBDOD	6010B	$ 0.00
GW	ASDG	Arsenic,Diss. by ICPMS		PPBDOD	6020	$ 0.00
GW	BADICP	Barium,Dissolved		PPBDOD	6010B	$ 0.00
GW	BEDICP	Beryllium,Dissolved		PPBDOD	6010B	$ 0.00
GW	CDDG	Cadmium,Dissolved by ICPMS		PPBDOD	6020	$ 0.00
GW	CODG	Cobalt,Dissolved by ICPMS		PPBDOD	6020	$ 0.00
GW	CRDG	Chromium,Diss. by ICPMS		PPBDOD	6020	$ 0.00
GW	CUDICP	Copper,Dissolved		PPBDOD	6010B	$ 0.00
GW	HGD	Mercury,Dissolved		PPBDOD	7470A	$ 0.00
GW	MNDICP	Manganese,Dissolved		PPBDOD	6010B	$ 0.00
GW	NIDG	Nickel,Dissolved by ICPMS		PPBDOD	6020	$ 0.00
GW	PBDG	Lead,Dissolved by ICPMS		PPBDOD	6020	$ 0.00
GW	SBDG	Antimony,Diss. by ICPMS		PPBDOD	6020	$ 0.00
GW	SEDG	Selenium,Diss. by ICPMS		PPBDOD	6020	$ 0.00
GW	TLDG	Thallium,Diss. by ICPMS		PPBDOD	6020	$ 0.00
GW	VDICP	Vanadium,Dissolved		PPBDOD	6010B	$ 0.00
GW	ZNDICP	Zinc,Dissolved		PPBDOD	6010B	$ 0.00

L735181-05		H-TU508-MW05-NT01	11/19/2014 10:00 Sample Description: Holloman AFB	Site:	Est. Due Date*: 12/01/2014 - R5	
GW	8270	SVOCs		PPBDOD	8270C	$ 110.00
GW	8270PAHSIM	PAHs by SIM		PPBDOD	8270 C-SIM	$ 60.00
GW	AGG	Silver by ICPMS		PPBDOD	6020	$ 85.00
GW	ALICP	Aluminum		PPBDOD	6010B	$ 0.00
GW	ASG	Arsenic by ICPMS		PPBDOD	6020	$ 0.00
GW	BAICP	Barium		PPBDOD	6010B	$ 0.00
GW	BEICP	Beryllium		PPBDOD	6010B	$ 0.00
GW	CDG	Cadmium by ICPMS		PPBDOD	6020	$ 0.00
GW	COG	Cobalt by ICPMS		PPBDOD	6020	$ 0.00
GW	CRG	Chromium by ICPMS		PPBDOD	6020	$ 0.00
GW	CUICP	Copper		PPBDOD	6010B	$ 0.00
GW	DROOROLVI	Diesel and Oil Ranges by LVI		PPBDOD	8015	$ 28.00
GW	EDD	Electronic Data Deliverable				$ 0.00
GW	GRO	TPH Low Fraction		PPBDOD	8015D/GRO	$ 24.00
GW	HG	Mercury		PPBDOD	7470A	$ 0.00
GW	MNICP	Manganese		PPBDOD	6010B	$ 0.00
GW	NIG	Nickel by ICPMS		PPBDOD	6020	$ 0.00
GW	PBG	Lead by ICPMS		PPBDOD	6020	$ 0.00
GW	QC4	QC Package				$ 0.00
GW	SBG	Antimony by ICPMS		PPBDOD	6020	$ 0.00
GW	SEG	Selenium by ICPMS		PPBDOD	6020	$ 0.00
GW	TLG	Thallium by ICPMS		PPBDOD	6020	$ 0.00
GW	V8260	Volatiles		PPBDOD	8260B	$ 46.00
GW	VICP	Vanadium		PPBDOD	6010B	$ 0.00
GW	ZNICP	Zinc		PPBDOD	6010B	$ 0.00

L735181-06		H-TU508-MW04-ND01	11/19/2014 11:00 Sample Description: Holloman AFB Sample Comments: Field Filtered. EDD/QC4/DOD	Site:	Est. Due Date*: 12/01/2014 - R5	
GW	AGDG	Silver,Dissolved by ICPMS		PPBDOD	6020	$ 85.00
GW	ALDICP	Aluminum,Dissolved		PPBDOD	6010B	$ 0.00
GW	ASDG	Arsenic,Diss. by ICPMS		PPBDOD	6020	$ 0.00
GW	BADICP	Barium,Dissolved		PPBDOD	6010B	$ 0.00
GW	BEDICP	Beryllium,Dissolved		PPBDOD	6010B	$ 0.00
GW	CDDG	Cadmium,Dissolved by ICPMS		PPBDOD	6020	$ 0.00
GW	CODG	Cobalt,Dissolved by ICPMS		PPBDOD	6020	$ 0.00
GW	CRDG	Chromium,Diss. by ICPMS		PPBDOD	6020	$ 0.00
GW	CUDICP	Copper,Dissolved		PPBDOD	6010B	$ 0.00
GW	HGD	Mercury,Dissolved		PPBDOD	7470A	$ 0.00
GW	MNDICP	Manganese,Dissolved		PPBDOD	6010B	$ 0.00
GW	NIDG	Nickel,Dissolved by ICPMS		PPBDOD	6020	$ 0.00
GW	PBDG	Lead,Dissolved by ICPMS		PPBDOD	6020	$ 0.00
GW	SBDG	Antimony,Diss. by ICPMS		PPBDOD	6020	$ 0.00
GW	SEDG	Selenium,Diss. by ICPMS		PPBDOD	6020	$ 0.00
GW	TLDG	Thallium,Diss. by ICPMS		PPBDOD	6020	$ 0.00
GW	VDICP	Vanadium,Dissolved		PPBDOD	6010B	$ 0.00
GW	ZNDICP	Zinc,Dissolved		PPBDOD	6010B	$ 0.00

L735181-07		H-TU508-MW04-NT01	11/19/2014 11:00 Sample Description: Holloman AFB	Site:	Est. Due Date*: 12/01/2014 - R5	
GW	8270	SVOCs		PPBDOD	8270C	$ 110.00
GW	8270PAHSIM	PAHs by SIM		PPBDOD	8270 C-SIM	$ 60.00
GW	AGG	Silver by ICPMS		PPBDOD	6020	$ 85.00
GW	ALICP	Aluminum		PPBDOD	6010B	$ 0.00
GW	ASG	Arsenic by ICPMS		PPBDOD	6020	$ 0.00
GW	BAICP	Barium		PPBDOD	6010B	$ 0.00
GW	BEICP	Beryllium		PPBDOD	6010B	$ 0.00
GW	CDG	Cadmium by ICPMS		PPBDOD	6020	$ 0.00
GW	COG	Cobalt by ICPMS		PPBDOD	6020	$ 0.00
GW	CRG	Chromium by ICPMS		PPBDOD	6020	$ 0.00
GW	CUICP	Copper		PPBDOD	6010B	$ 0.00
GW	DROOROLVI	Diesel and Oil Ranges by LVI		PPBDOD	8015	$ 28.00
GW	EDD	Electronic Data Deliverable				$ 0.00
GW	GRO	TPH Low Fraction		PPBDOD	8015D/GRO	$ 24.00
GW	HG	Mercury		PPBDOD	7470A	$ 0.00
GW	MNICP	Manganese		PPBDOD	6010B	$ 0.00
GW	NIG	Nickel by ICPMS		PPBDOD	6020	$ 0.00
GW	PBG	Lead by ICPMS		PPBDOD	6020	$ 0.00
GW	QC4	QC Package				$ 0.00
GW	SBG	Antimony by ICPMS		PPBDOD	6020	$ 0.00
GW	SEG	Selenium by ICPMS		PPBDOD	6020	$ 0.00
GW	TLG	Thallium by ICPMS		PPBDOD	6020	$ 0.00
GW	V8260	Volatiles		PPBDOD	8260B	$ 46.00
GW	VICP	Vanadium		PPBDOD	6010B	$ 0.00
GW	ZNICP	Zinc		PPBDOD	6010B	$ 0.00

L735181-08		H-TU508-MW07-NT01	11/21/2014 08:51 Sample Description: Holloman AFB	Site:	Est. Due Date*: 12/01/2014 - R5	
GW	8270	SVOCs		PPBDOD	8270C	$ 110.00
GW	8270PAHSIM	PAHs by SIM		PPBDOD	8270 C-SIM	$ 60.00
GW	AGG	Silver by ICPMS		PPBDOD	6020	$ 85.00
GW	ALICP	Aluminum		PPBDOD	6010B	$ 0.00
GW	ASG	Arsenic by ICPMS		PPBDOD	6020	$ 0.00
GW	BAICP	Barium		PPBDOD	6010B	$ 0.00
GW	BEICP	Beryllium		PPBDOD	6010B	$ 0.00
GW	CDG	Cadmium by ICPMS		PPBDOD	6020	$ 0.00
GW	COG	Cobalt by ICPMS		PPBDOD	6020	$ 0.00
GW	CRG	Chromium by ICPMS		PPBDOD	6020	$ 0.00
GW	CUICP	Copper		PPBDOD	6010B	$ 0.00
GW	EDD	Electronic Data Deliverable				$ 0.00
GW	HG	Mercury		PPBDOD	7470A	$ 0.00
GW	MNICP	Manganese		PPBDOD	6010B	$ 0.00
GW	NIG	Nickel by ICPMS		PPBDOD	6020	$ 0.00
GW	PBG	Lead by ICPMS		PPBDOD	6020	$ 0.00
GW	QC4	QC Package				$ 0.00
GW	SBG	Antimony by ICPMS		PPBDOD	6020	$ 0.00
GW	SEG	Selenium by ICPMS		PPBDOD	6020	$ 0.00
GW	TLG	Thallium by ICPMS		PPBDOD	6020	$ 0.00
GW	VICP	Vanadium		PPBDOD	6010B	$ 0.00
GW	ZNICP	Zinc		PPBDOD	6010B	$ 0.00

L735181-09		H-TU508-MW07-ND01	11/21/2014 08:51 Sample Description: Holloman AFB Sample Comments: Field Filtered. EDD/QC4/DOD	Site:	Est. Due Date*: 12/01/2014 - R5	
GW	AGDG	Silver,Dissolved by ICPMS		PPBDOD	6020	$ 85.00
GW	ALDICP	Aluminum,Dissolved		PPBDOD	6010B	$ 0.00
GW	ASDG	Arsenic,Diss. by ICPMS		PPBDOD	6020	$ 0.00
GW	BADICP	Barium,Dissolved		PPBDOD	6010B	$ 0.00
GW	BEDICP	Beryllium,Dissolved		PPBDOD	6010B	$ 0.00
GW	CDDG	Cadmium,Dissolved by ICPMS		PPBDOD	6020	$ 0.00
GW	CODG	Cobalt,Dissolved by ICPMS		PPBDOD	6020	$ 0.00
GW	CRDG	Chromium,Diss. by ICPMS		PPBDOD	6020	$ 0.00
GW	CUDICP	Copper,Dissolved		PPBDOD	6010B	$ 0.00
GW	HGD	Mercury,Dissolved		PPBDOD	7470A	$ 0.00
GW	MNDICP	Manganese,Dissolved		PPBDOD	6010B	$ 0.00
GW	NIDG	Nickel,Dissolved by ICPMS		PPBDOD	6020	$ 0.00
GW	PBDG	Lead,Dissolved by ICPMS		PPBDOD	6020	$ 0.00
GW	SBDG	Antimony,Diss. by ICPMS		PPBDOD	6020	$ 0.00
GW	SEDG	Selenium,Diss. by ICPMS		PPBDOD	6020	$ 0.00
GW	TLDG	Thallium,Diss. by ICPMS		PPBDOD	6020	$ 0.00
GW	VDICP	Vanadium,Dissolved		PPBDOD	6010B	$ 0.00
GW	ZNDICP	Zinc,Dissolved		PPBDOD	6010B	$ 0.00

L735181-10		H-TU508-MW07-NT01	11/21/2014 08:51 Sample Description: Holloman AFB	Site:	Est. Due Date*: 12/01/2014 - R5	
GW	DROOROLVI	Diesel and Oil Ranges by LVI		PPBDOD	8015	$ 28.00
GW	EDD	Electronic Data Deliverable				$ 0.00
GW	GRO	TPH Low Fraction		PPBDOD	8015D/GRO	$ 24.00
GW	QC4	QC Package				$ 0.00
GW	V8260	Volatiles		PPBDOD	8260B	$ 46.00
				Information Only - Not An Invoice - Do Not Pay! Total:		$ 1,822.00

*** Due Date listed is an estimate based on average workloads. Please communicate required dates to your TSR.**